INDEX TO DRAWINGS

50-4-102.0	INDEX AND GENERAL NOTES
50-4-102.1	GENERAL PLAN & PROFILE
50-4-102.1A	GENERAL PLAN & PROFILE
50-4-102.2	INTAKE STRUCTURES TO STA.0+00
50-4-102.3.1AB	STA. 0+00 TO STA. 26+40
50-4-102.3A.1AB	LINE CHANGE STA. 0+00 TO STA. 0+86.27
50-4-111.1AB	8" CONTROLLED AIR VALVE AT STA. 9+66.00, AQUEDUCT #1
50-4-102.4A.1AB	PLAN AND PROFILE 4" WATER PIPE LINE TO F.B.I.S.
50-4-102.4.1AB	STA. 26+40 TO STA. 52+80
50-4-102.5.1AB	STA. 52+80 TO STA. 79+20
50-4-102.6.1AB	STA. 79+20 TO STA. 105+60
50-4-102.7.1AB	STA. 105+60 TO STA. 132+00
50-4-102.48.1AB	WINDSOR CREEK CROSSING
50-4-102.8.1AB	STA. 132+00 TO STA. 158+40
50-4-102.9	STA. 158+40 TO STA. 184+80
4078_C-24	AIR VALVE UPGRADE PROJECT PHASE I, GENERAL LOCATION MAP
4078_C-25	AIR VALVE UPGRADE PROJECT PHASE I, STA 167+86 SITE PLAN AND DETAILS
50-4-102.10	STA. 184+80 TO STA. 211+20
50-4-102.11	STA. 211+20 TO STA. 237+60
50-4-102.12	STA. 237+60 TO STA. 264+00
50-4-102.49.AB	MARK WEST CREEK CROSSING
50-4-102.13	STA. 264+00 TO STA. 290+40
50-4-102.14	STA. 290+40 TO STA. 316+80
50-4-102.15	STA. 316+80 TO STA. 335+00
50-4-102.50	UTILITY LOCATION DETAILS, FULTON, CALIFORNIA
50-4-102.16	STA. 335+00 STA. 361+40
50-4-102.17	STA. 361+40 TO STA 387+80
50-4-102.18	STA 387+80 TO STA. 414+20
50-4-102.19	STA. 414+20 TO STA. 440+60
50-2-102.11	WATER METER INSTALLATION SAN MIGUEL RD. & NWP RR, STA. 418+83
50-4-102.20	STA. 440+60 TO STA. 450+63
50-4-102.21	STA. 464+54 TO STA. 495+00
RW000102	FOUNTAINGROVE PARKWAY PLAN AND PROFILE SCWA AQUEDUCT TO STA. 29+50
RW000105	FOUNTAINGROVE PARKWAY PLAN AND PROFILE RAILROAD AND FREEWAY CROSSING
50-2-102.12	WATER METER INSTALLATION COFFEY LANE NORTH OF STEELE LANE, STA. 491+06
50-4-102.22	STA. 495 +00 TO STA. 527+00
50-4-102.23	STA. 527+00 TO STA. 556+75
50-2-102.13	WATER METER INSTALLATION JENNINGS AVE. & NWP RR, STA. 530+34
50-4-102.24	STA. 556+75 TO STA. 568+00
50-2-102.14A	WATER METER INSTALLATION CARRILLO ST. & CLEVELAND AVE., STA 563+19
50-4-102.24A	CATHODIC PROTECTION VICINITY COLLEGE AVENUE, EXHIBIT B
50-4-102.25	STA. 568+00 STA. 579+32
4078_C-26	AIR VALVE UPGRADE PROJECT PHASE I. STA 573+10 SITE PLAN AND DETAILS
50-4-102.26	STA. 579+32 TO STA. 591+00
4078_C-27	AIR VALVE UPGRADE PROJECT PHASE I, STA 582+10 SITE PLAN AND DETAILS
50-2-102.15	WATER METER INSTALLATION NINTH ST. & WILSON ST., STA. 585+00
50-4-102.27	STA. 591+00 TO STA. 603+00
4078_C-28	AIR VALVE UPGRADE PROJECT PHASE I, STA 599+00 SITE PLAN AND DETAILS
50-4-102.28	STA. 603+00 TO STA. 614+00
50-4-102.28.1	VALVE REPLACEMENT STA 612+41
4078_C-29	AIR VALVE UPGRADE PROJECT PHASE I, STA 612+41 SITE PLAN AND DETAILS
50-2-102.16	WATER METER INSTALLATION, THIRD ST & WILSON ST, STA 609+00
50-4-102.51	R.R. & HIGHWAY CROSSING
50-4-102.29	STA. 614+00 TO STA. 626+00 - **STARTS** URBAN RENEWAL PHASE II, 4 SHEETS
50-4-102.29A	PIPELINE ENCASEMENT EXTENSION
50-4-102.29B	PIPELINE ENCASEMENT EXTENSION DETAILS
50-4-102.29C	AQUEDUCT RELOCATION 2ND ST & HWY 101 TO B ST
50-4-102.0.A	PIPELINE ENCASEMENT EXTENSIONS, LOCATION MAP & INDEX
50-4-102.29_CP	CATHODIC PROTECTION EACH SIDE HIGHWAY 101 A 2ND STREET
50-4-102.29D	SECOND STREET AND HWY 101 TO B ST, STA 9+60.00 TO STA 12+32.00
50-4-102.29E	SECOND STREET AND HWY 101 TO B ST, 12+32.00 TO STA 18+00.00

DRAWINGS FROM ORIGINAL PIPELINE RECORD DRAWINGS

INDENTED DRAWN SHOW PIPELINE ADDITIONS AND MODIFICATIONS

INDEX TO DRAWINGS continued

50-4-102.29F	SECOND STREET AND HWY 101 TO B ST, STA 18+00.00 TO STA 20+49.74 1ST ST = STA 19+74.20 B ST
50-4-102.29G	SECOND STREET AND HWY 101 TO B ST, STA 17+48.84 TO STA 19+74.20 B ST, STA 20+49.74 1ST STREET
50-4-102.29H	SECOND STREET AND HWY 101 TO B ST, STA 9+81.80 TO STA 11+93.01 2 ND STREET
50-4-102.29I	SECOND ST. AND HWY 101 TO B STREET, DETAILS
50-4-102.29J	SECOND STREET AND HWY 101 TO B STREET, TRENCH BACKFILL DETAILS
50-4-102.30	STA. 626+00 TO STA. 638+25 - **ENDS** URBAN RENEWAL PHASE II
50-4-102.31	STA. 638+25 TO STA. 650+03
50-2-102.17	WATER METER INSTALLATION SOUTH E ST., STA. 647+25
50-4-102.52.AB	SANTA ROSA CREEK CROSSING, STA 648+40 TO STA 650+69
50-4-102.32	STA. 650+03 TO STA. 660+84
50-4-102.33	STA. 660+84 TO STA. 671+84
60-2-102.5	BROOKWOOD AVE AQUEDUCT TURNOUT RECONSTRUCTION, EXISTING STA 668+40
60-2-102.6	BROOKWOOD AVE AQUEDUCT TURNOUT RECONSTRUCTION, PLAN STA 668+40
50-2-102.18	WATER METER INSTALLATION SONOMA AVE. & BROOKWOOD AVE., STA. 668+45
50-4-102.34	STA. 671+84 TO STA. 683+14
50-4-102.35	STA. 683+14 TO STA. 694+93
50-2-102-19.1	WATER METER INSTALLATION SONOMA AVE & TALBOT AVE., STA. 687+23
50-4-102.36	STA. 694+93 TO STA. 706+93
50-4-102.37	STA. 706+93 TO STA. 718+93
50-2-102-20	WATER METER INSTALLATION SONOMA AVE. & FARMERS LANE, STA. 714+30
50-4-102.38	STA. 718+93 TO STA. 730+93
4078_C-30	AIR VALVE UPGRADE PROJECT PHASE I, STA 730+50 SITE PLAN AND DETAILS
50-4-102.39	STA. 730+93 TO STA. 742+93
50-4-102.40	STA. 742+93 TO STA. 754+93
50-2-102.21.1	WATER METER INSTALLATION SONOMA AVE. & YULUPA AVE., STA. 745+20
4078_C-31	AIR VALVE UPGRADE PROJECT PHASE 1, STA 749+73 SITE PLAN AND DETAILS
50-4-102.41	STA. 754+93 TO STA. 766+93
50-4-102.42	STA. 766+93 TO STA. 777+94
50-2-102.22	WATER METER INSTALLATION SONOMA AVE. & SUMMERFIELDS RD., STA. 772+60
RW000146.0	WATER TRANSMISSION MAIN, SUMMERFIELD ROAD, SCV 18, GRADING PLAN, CITY OF SANTA ROSA
RW000146.1	WATER TRANSMISSION MAIN, SUMMERFIELD ROAD, PLAN AND PROFILE, STA. 8+50 TO 13+00, CITY OF S.R.
RW000146.2	WATER TRANSMISSION MAIN, SUMMERFIELD ROAD, EXPANDED PLAN, SCV 18 VAULT, CITY OF SANTA ROSA
RW000146.3	WATER TRANSMISSION MAIN, SUMMERFIELD ROAD, SCV 18 METER VAULT, CITY OF SANTA ROSA
50-4-102.43	STA. 777+94 TO STA. 789+9
50-4-102.44	STA. 789+98 TO STA. 801+94
50-4-102.45	STA. 801+94 TO STA. 813+40
50-4-102.46	STA. 813+40 TO STA. 822+14
50-4-102.46A	STA. 813+40 TO STA. 822+14

Santa Rosa Aqueduct
AKA Aqueduct No. 1
AKA Russian River Aqueduct No. 1

NO.	DATE	REVISION	BY

SONOMA COUNTY WATER AGENCY

SCALE :
DATE : 08/25/10
DRAWN : JW/ SP
REVIEWED :

SANTA ROSA AQUEDUCT
REVISED INDEX TO DRAWINGS
RECORD DRAWINGS including PIPELINE ADDITIONS

FILE NAME: SR-Aqueduct_HybridDrawingIndex.dwg
CONTRACT NUMBER:
DRAWING NUMBER: G-1_rev
SHEET 1 OF 1

\\SD-DATA\Proj\water transmission\pipelines\santa rosa-r aq 1\SR-Aqueduct_HybridDrawingIndex.dwg

PLANS OF
AQUEDUCT NO. 1
HIGH PRESSURE PIPE

From: Wohler Bridge

To: The City of Santa Rosa

BY

SONOMA COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT

BOARD OF DIRECTORS

GUY F. KING - CHAIRMAN

EVERETT LAMPSON — E. J. GUIDOTTI

LEIGH SHOEMAKER — S. CARSON MITCHELL

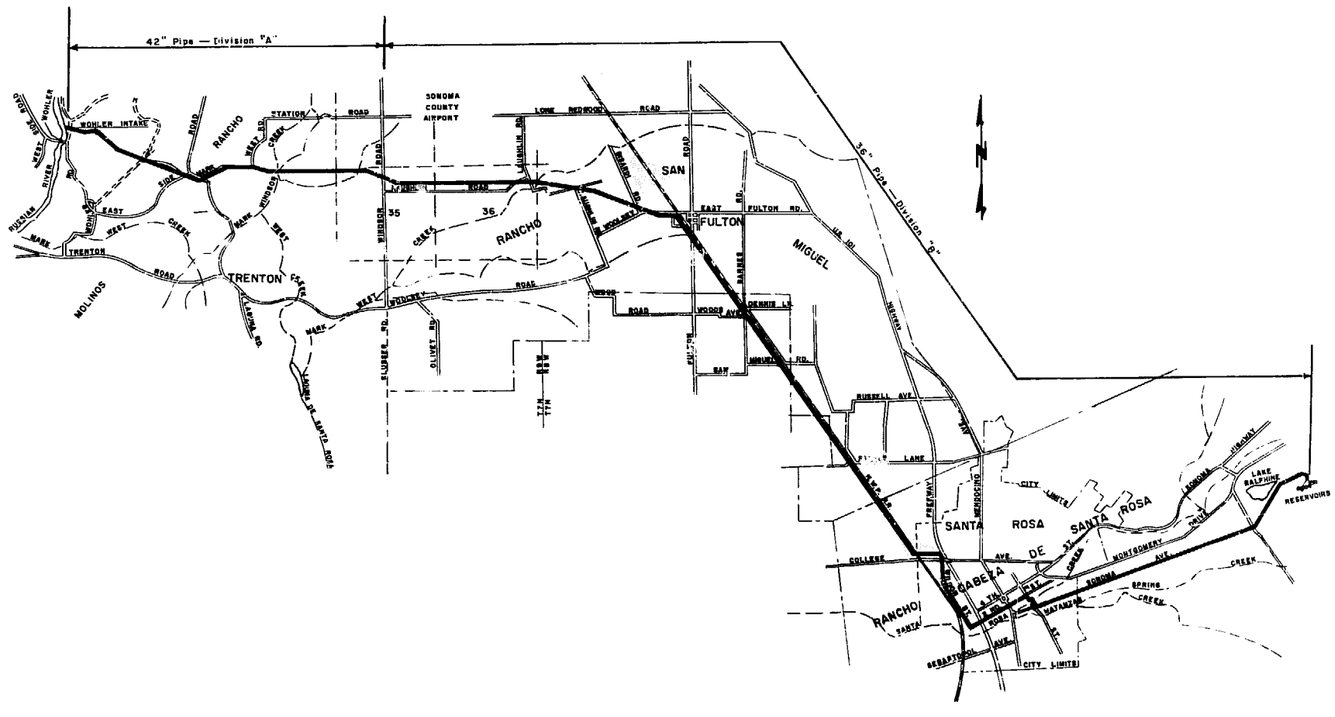
GORDON MILLER - CHIEF ENGINEER

INDEX TO PLANS

	Dwg. No.
GENERAL NOTES AND INDEX	50-4-102.0
INDEX TO PLAN AND PROFILE	50-4-102.1
PLAN AND PROFILE DRAWINGS	50-4-102.2 TO 50-4-102.47
SPECIAL LOCATION DRAWINGS	50-4-102.48 TO 50-4-102.53

DESIGN STANDARD DRAWINGS

	Dwg. No.
Standard Steel Cylinder Pipe	DS-100
Modified Prestressed Steel Cylinder Pipe Type A_1 (Welded Joint)	DS-102.1
Modified Prestressed Steel Cylinder Pipe Type A_1 (Rubber Joint)	DS-102.2
Pressure Relief Valve Installation	DS-104
Pressure Relief Valve Installation Construction Details	DS-105
Air Valve Installation, Types A, B, & C	DS-106
Vertical Bend Anchor, Type A, Convex	DS-107
Vertical Bend Anchor, Type B, Concave	DS-108
Horizontal Bend Anchor, Type C	DS-109
Special Pipe Connections	DS-110
Typical Meter Box	DS-111
Manholes, Types A, B, & C	DS-112
6" Blowoff and Pumping Tee, Types A & B	DS-113
Trench Cross Sections	DS-114
36" Gate Valve Installation, Type A & Type B	DS-115
36" Gate Valve Anchorage	DS-116
Air Valve Around Main Line Gate Valves, Types A & B	DS-117
Distribution Turnouts, Type A & Type B	DS-118
Concrete Piers and Above Ground Anchorage	DS-119
Reconstruction of Sanitary Sewers and House Connections	DS-120
Pipe Supports Across Trenches	DS-121.1
Warning Sign	DS-122
Metered Service Connection	DS-124
Butt Strap Field Closure and Field Cut Procedure	DS-126



GENERAL NOTES

Elevations shown are in feet above USGS datum.

Stations shown on plan & profile are horizontal distances unless otherwise shown.

PI stations and elevations shown on the profile drawings are for invert grades extended. Vertical curves are to be used at all P.I.'s to suit field conditions and maintain 3'-0" minimum cover. P.I's may be changed upon approval of Engineer.

All stations, grades, and elevations are subject to revision to suit field conditions.

Laying direction of pipe shall be uphill where invert grades exceed 25 %.

Trees less than 8" diameter measured 3' above the ground other than orchard trees are not shown on drawings.

All fences are to be reconstructed in kind of new material. Substitutions require approval of property owner and Engineer.

Existing public Utilities shall be maintained in place by contractor unless otherwise shown.

Sanitary sewer encasement and house connection reconstruction when required shall be according to details on drawings DS-120 and 121.1

Utility ownership as follows unless otherwise shown

Gas & Electricity ——— Pacific Gas and Electric Company
Water ——— City of Santa Rosa
Telephone ——— Pacific Telephone

All anchors shown on the drawings will be paid for under appropriate concrete items. All other anchors are dependent upon the type of joint the contractor elects to use and will be determined from the pipe layout drawings submitted by the contractor. Costs of all anchors constructed as an alternate to welding are to be included in the cost of the pipe.

Pipeline shall have 3'-0" min. cover between Sta 0+00 and Sta. 773+20, and 1'-0" min. cover between Sta 773+20 and Sta 822+14.

STANDARD SYMBOLS

1. Pumping Tee & Blowoff Valve, Type (A or B)
2. Air Valves, Type (A, B, or C) to be constructed
3. Pressure Relief Valves & Wasteways
4. Blind Tees
5. City Turnouts, Gate Valves
6. Manholes
7. Tapers
8. Road Crossings
9. Water Main & Gate Valve — To be constructed
10. Water Main & Gate Valve — Existing
11. Gas Main & Gate Valve
12. Sewer & Manhole
13. Storm Drain, Manhole & Catch Basin
14. Telephone Conduit & Manhole
15. Telephone Cable Signs (TCS)
16. Marker Post — To be constructed
17. Electrical Conduit
18. Fire Alarm Conduit
19. Power & Telephone Poles & Guys
20. Fences (Barbed Wire)
21. (Chain Link)
22. (Board)
23. Existing Facilities:
    - Meters: (Water)
    - (Gas)
    - Water Main Blowoff
    - Sewer Cleanout
    - Fire Hydrants
    - Trees
24. City Monument
25. Ditches & Intermittent Streams
26. Right of Way & Adjoining Easement
27. Laying Direction of Pipe

PLANS and SPECIFICATIONS
Submitted By

Orval L. Woodard
Orval L. WOODARD
Senior Civil Engineer

PLANS and SPECIFICATIONS
Reviewed By

John S. Longwell
John S. LONGWELL
Consulting Engineer

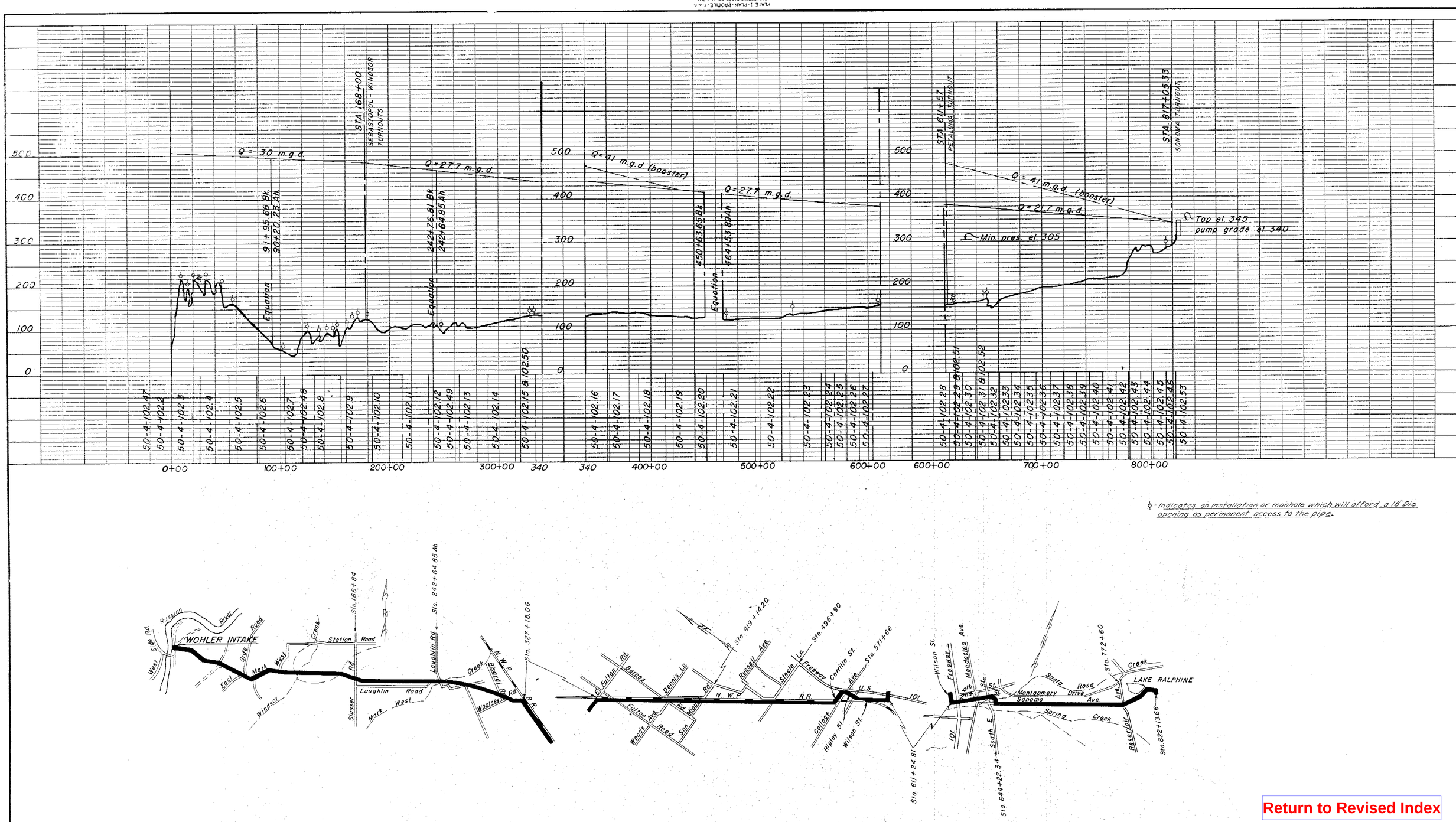
AS BUILT

Return to Revised Index

RUSSIAN RIVER AQUEDUCT NO. 1
INDEX AND GENERAL NOTES

SCALE 1"=4000'	APPROVED BY Gordon W. Miller CHIEF ENGINEER RE 8271	DRAWN BY V.T	
DATE OCT. 10, 1957		REVISED E.S.	
SONOMA COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT			
DESIGNED RE 10702	CHECKED O.L. Woodard RE 8557	DRAWING NUMBER 50-4-102.0	

XXXX PRINTED ON NO. 1000N CLEARPRINT



ϕ - Indicates an installation or manhole which will afford a 18" Dia. opening as permanent access to the pipe.

Return to Revised Index

No.	DATE	REVISION	By
		AS BUILT	

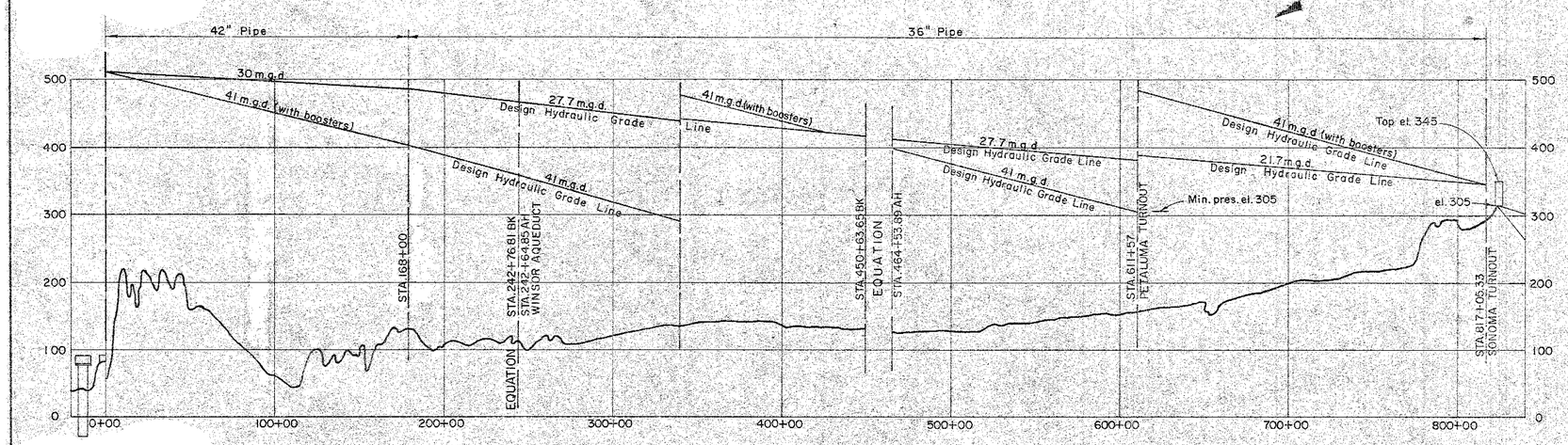
RUSSIAN RIVER AQUEDUCT

SCALE: 1" = 4000'
DATE: OCT. 10, 1957
APPROVED Gordon W. Miller CHIEF ENGINEER RE 8271
DRAWN VT

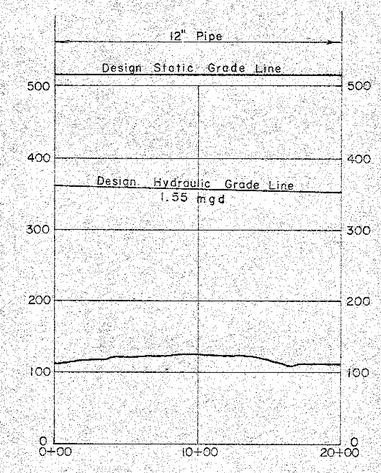
SONOMA COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT

DESIGNED RE 10578
CHECKED RE 16702
DRAWING NUMBER 50-4-102.1

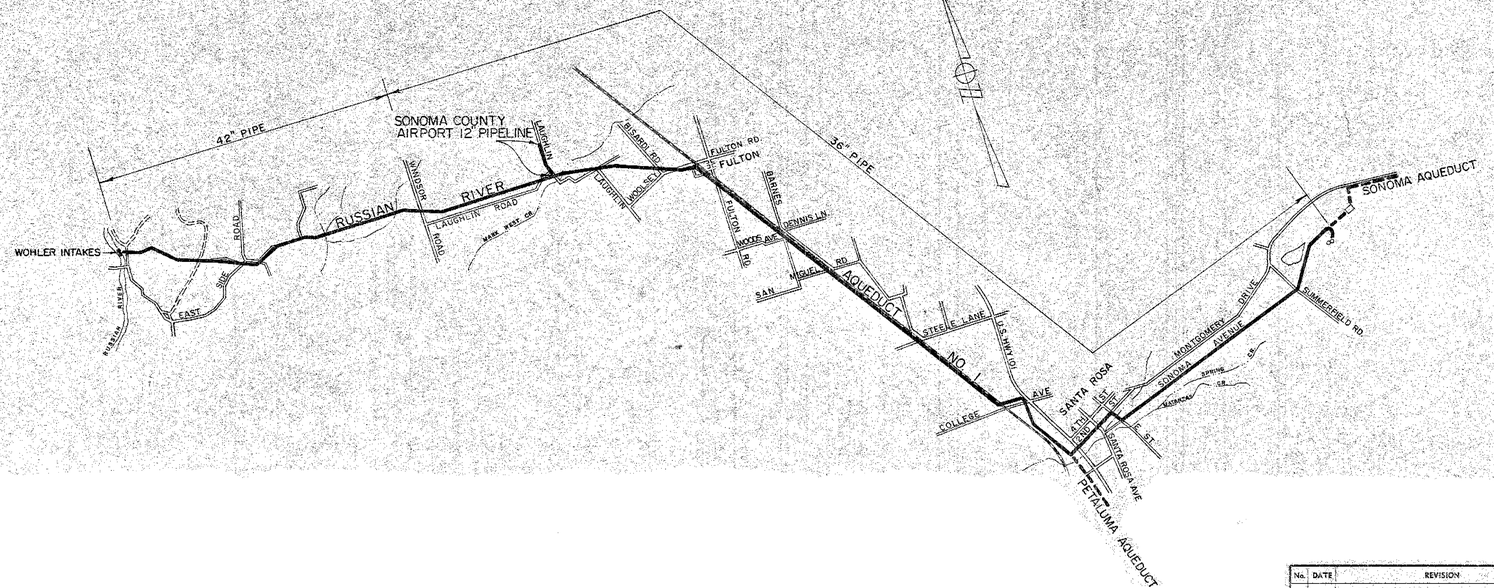
50-4-102.1



RUSSIAN RIVER AQUEDUCT NO. 1



SONOMA COUNTY AIRPORT



Return to Revised Index

No.	DATE	REVISION	By

RUSSIAN RIVER AQUEDUCT NO. 1
GENERAL PLAN & PROFILE

SCALE: 1" = 4000'	APPROVED	DRAWN: RJ
DATE: AUG. 30, 1968	CHIEF ENGINEER	CHECKED

SONOMA COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT

SUBMITTED | SUBMITTED | DRAWING NUMBER 58-4-102.1A

PLATE 1 PLAN PROFILE F.A.S.
CLEARANCE PAPER CO. L.A. CAL.
No. 1000041

Hydraulic Gradient

LINE B

LINE A

El. 78.50
Collector Height Of Ranney Western Method Of California Contract

Approx. Ground Surface

100 Ft Square Area Sloped & Graded To El. 85 Min.
REFER Dwg 50-4-102.47 For Grading Plan

LEVEL

SEE DWG 50-4-102.3

0+00 El. 80.43

1+51.17 P.I. El. 32.00

3+71.17 P.I. El. 35.98

4+71.17 P.I. El. 62.98

5+81.17 P.I. El. 64.08

6+91.17 Line B = 6+72.81 Line A
El. 72.00

0+00 El. 89.10

0+89.81 P.I. El. 90.00

3+09.81 P.I. El. 86.00

5+09.81 P.I. El. 61.00

5+72.81 P.I. El. 78.00

6+91.17 Line A = 6+91.17 Line B

7+01.67

0+00 Easement Ahead Begin Pipeline This Contract

SPECIAL BEDDING 30"H 500 P(216 psi)

30"H 500 P(195 psi)

42"H 500 P(195 psi)

Clay
Sand
Loam
Clay
Rock
Clay
Sand
Gravel
Rock
Coarse Gravel

LINE A
S.73°36'40"W.
23°22'20"
S.55°14'20"W.
S.37°05'W. 150.00'
S.52°54'E. 100.00'
150.00
S.37°05'W.
0+63.31 LINE CHANGE = 0+63.31 AHEAD
6+91.17 LINE B = 6+72.81 LINE A = 18.36 LINE CHANGE
0+00 IS S.11°42'10"E. 9.20' FROM CENTER OF INTAKE #1
0+00 IS S.44°42'10"W. 9.20' FROM CENTER OF INTAKE #1
Power Line
LINE B
Fusebox Mounted On 2 Power Poles
Intersection Of Roadways
Power Pole
Timber & Heavy brush
SEE DWG 50-4-102.3 FOR 5+72.81 50 FT

Return to Revised Index

This Drawing Not A Part Of These Specifications

No.	DATE	REVISION	By
	10/57	Line Change through Transformer Site	RG
	1-25-1960	SEE AS BUILT DWG. 50-6-102.29.1AB	RG

RUSSIAN RIVER AQUEDUCT NO. 1

INTAKE STRUCTURES to STA. 0+00

SCALE: 1"=50H 10V | APPROVED: Jordan W. Mills, CHIEF ENGINEER | DRAWN: R.G. D.M.

DATE:

SONOMA COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT

DESIGNED | CHECKED | DRAWING NUMBER 50-4-102.2

Hydraulic Gradient

Approx. Ground Surface

PIPE LAYED TO GRADE ±

Control building site — See drawing DS-10247 for grading plan

LEVEL

0+00 Welded butt strap joint See drawing DS-126

0+10 Vertical deflection right 12°28' Install 8 ft. concrete anchor See drawing DS-109

SEE 50-4-102.3A.1AB

3+75 4"x6" INSTALL MARKER POST SEE DRAWING DS-132

Type A Anchor 3" Lining

6" Air Valve Type B At High Point See drawing DS-106

Install 4" Manhole Type C At Low Point See drawing DS-112

Type B Anchor 3" Lining

6" Air Valve Type BA At High Point See drawing DS-106

Install 4" Manhole Type C At Low Point See drawing DS-112.

Type A Anchor 2" Lining

6" Air Valve Type B At High Point See drawing DS-106

INSTALL 4" MANHOLE TYPE C AT LOW POINT See drawing DS-112

Sta.	Pi. El.
0+00	180.00
0+10	
1+05	
2+00	122.09
3+75	
4+00	156.00
5+00	El. 168.00
6+00	180.00
7+00	200.00
7+50	
9+66	209.04
10+00	
11+58	195.64
13+00	175.00
15+82	174.54
18+00	176.00
19+35	
20+00	212.00
21+00	214.00
24+00	211.00
25+00	208.00
26+40	El. 208.56

CLASS 'D' BEDDING

42" H 400P (173psi) — 42" H 350 (152psi) — 42" H 300P (130psi) — 42" H 350P (152psi) — 42" H 300P (130psi)

Gravelly red clay — Small flat rocks — Brown clay — Gravelly red clay — Gravelly brown clay

RP. Nail 30" Oak

RP. 2x2 Hub

76°31'30"

S 47°09'30" E

SEE 50-4-02.3A.1AB FOR AS BUILT

FREDERICK M. MAC MURRAY
Book 923 Page 240 O.R.

Timber & heavy brush

GOVT. R.

R = 2000.00
Δ = 25°07'40"
L = 877.12
T = 445.73

R = 1452.06
Δ = 25°07'20"
L = 636.68
T = 323.54

R = 793.85
Δ = 46°05'40"
L = 638.65
T = 337.74

UNITED STATES OF AMERICA
Book 1202 Page 493 O.R.

Heavy brush

GUYWIRE

RP. Nail in 14" Oak

RP. Nail in 6" Oak

RP. Nail in Power Pole

RP. 2x2 Hub

S 51°18'30" E

MATCH LINE

RP. Nail in 12" Oak

RP. Nail in 8" Madrone

RP. Nail in 14" Dbl. Oak

UNITED STATES OF AMERICA
Book 1202 Page 493 O.R.

Open field

BM# 5 Elev. 216.47 10' Left of Sta. 13+70. Nail in a 16" Fir tree.

BM# Elev. 77.13 25' Left of Sta. 0+18 Railroad Spike in a 10" Oak Tree

BM# 3 Elev. 219.18 100' Right of Sta. 7+60 Nail in a 12" Oak Tree on fence line

DETAIL A

SCALE: 1"=8'

SEE 50-4-102.3A.,AB FOR AS BUILT

0+00 Begin Project

Existing Ground Line

F.G. 87.98

1½:1

Butt strap welded joint Ref. drawing DS-126

Elev. 90.00

0+10

S = 22105

12°28'

Level

4'-4"

AS BUILT
Date 1-25-1960
By

Return to Revised Index

NOTE: ALL RUBBER GASKET JOINTS WERE STITCH WELDED ON STEEP DOWN HILL SLOPES.

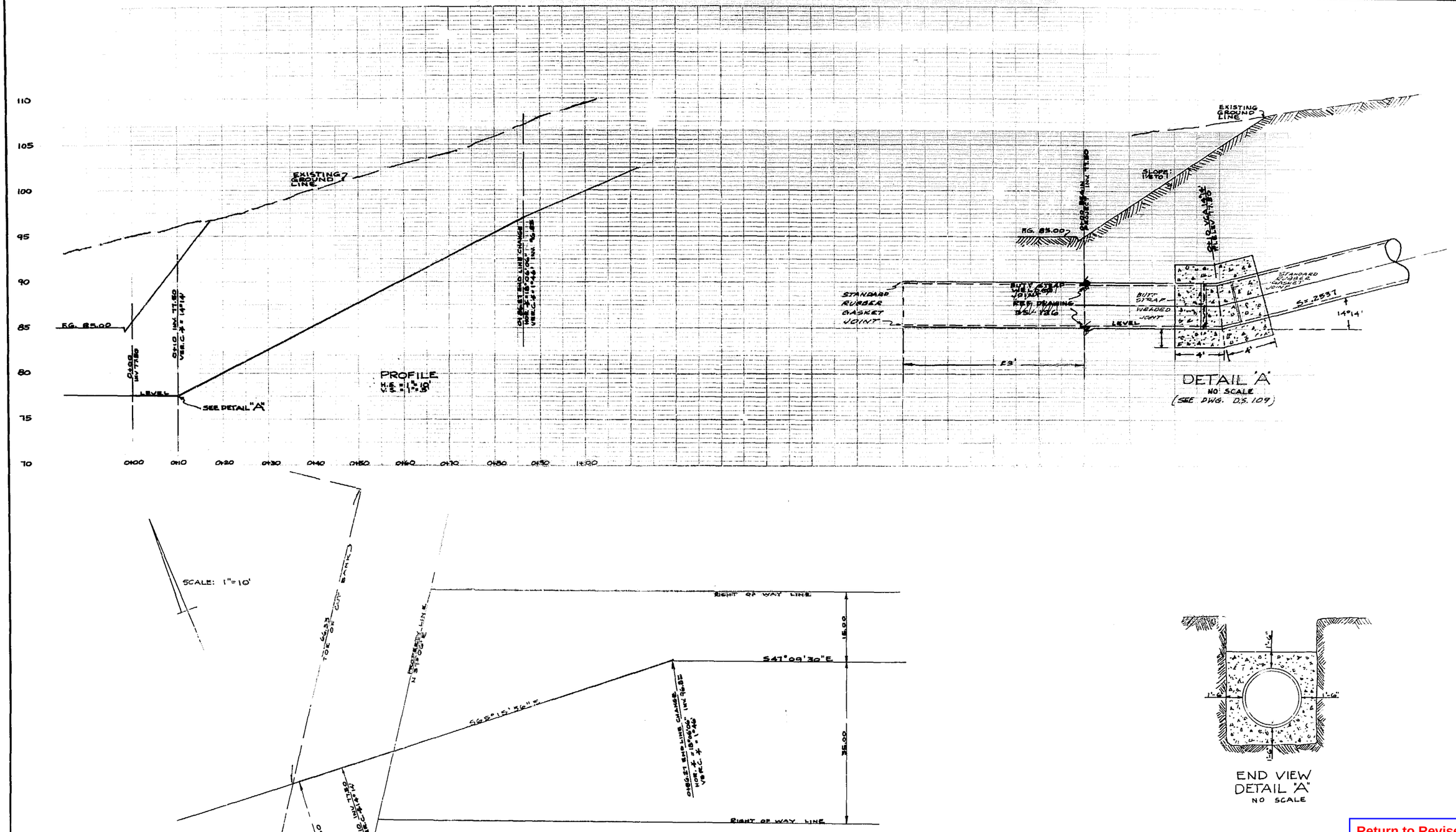
No.	DATE	REVISION	BY
		Water Bench Mks., K. Pts., Ref. Pts. added	REH
1	1-25-1960	AS BUILT	R.G

RUSSIAN RIVER AQUEDUCT NO. 1
STA. 0+00 to STA. 26+40

SCALE 1"=100H-10V | APPROVED: Gordon W. Mueller | DRAWN R.G
DATE OCT. 10, 1957 | Chief Engineer RE 8271 | C.J.

SONOMA COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT

DESIGNED: | CHECKED: RE 40702 | DRAWING NUMBER 50-4-102.3.1AB



Return to Revised Index

AS BUILT
Date 1-25-1960
By: [illegible]

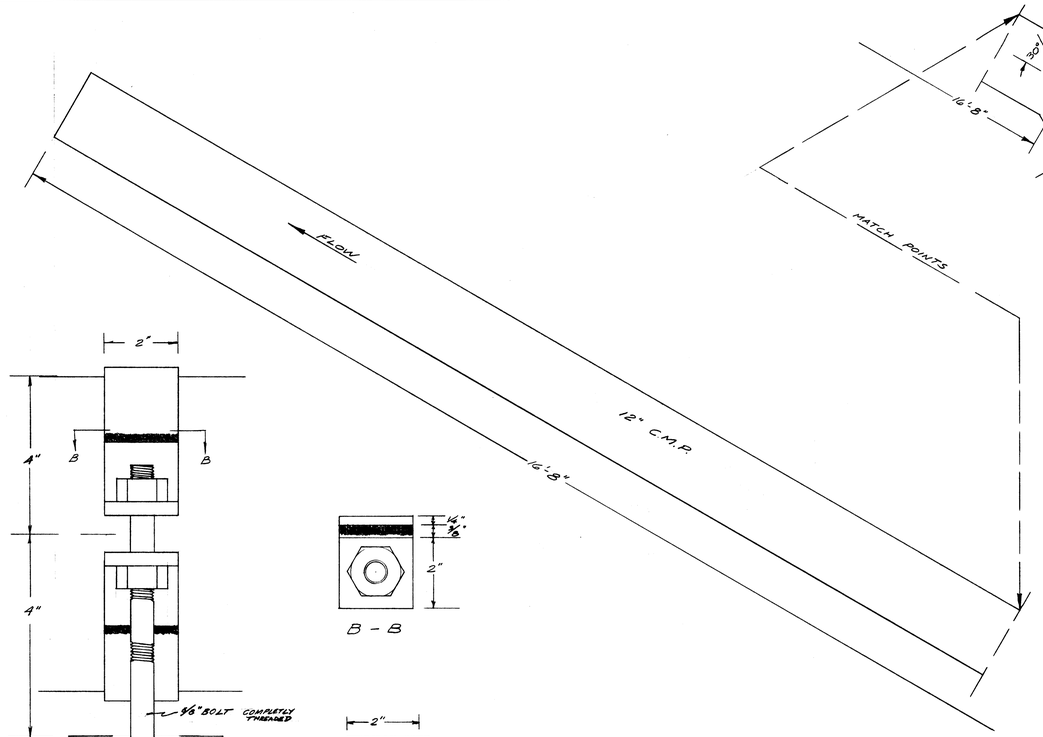
No.	DATE	REVISION	By
	1-25-1960	AS BUILT	RG

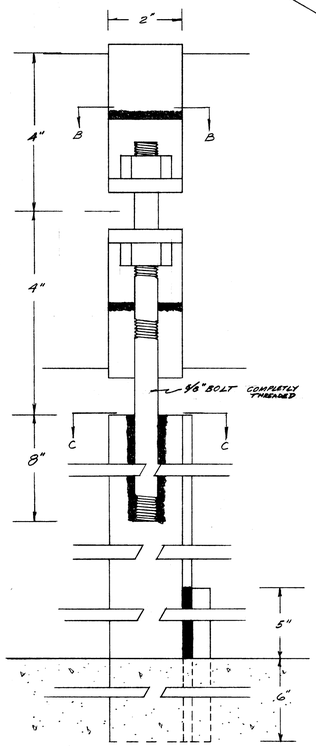
RUSSIAN RIVER AQUEDUCT NO. 1
LINE CHANGE
STA. 0+00 TO STA 0+86.27

SCALE: AS NOTED | APPROVED Gordon W. Miller CHIEF ENGINEER | DRAWN R.G.Jr.
DATE: JAN. 28-58

SONOMA COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT

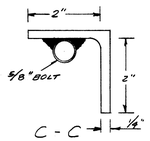
DESIGNED | CHECKED O.J. Woodard | DRAWING NUMBER 50-4-102.3A.1AB



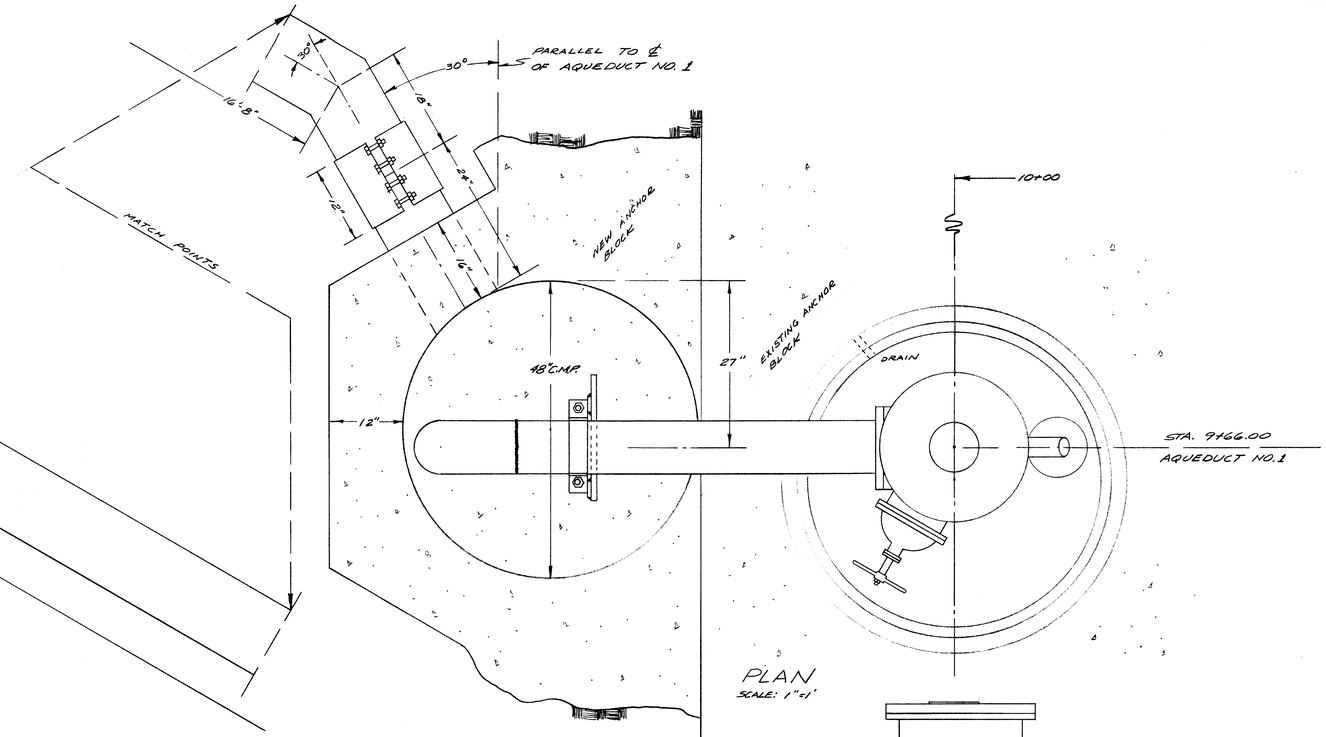


DETAIL A
SCALE: 1½" = 1"

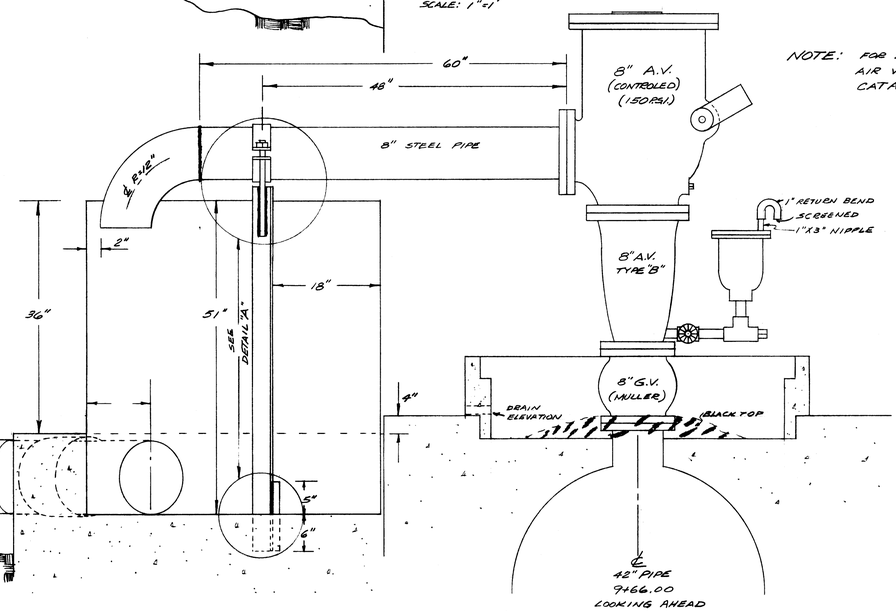
B - B



C - C



PLAN
SCALE: 1"=1'



ELEVATION
SCALE: 1"=1'

NOTE: FOR DETAILS ON 8"-150 PSI. AIR VALVE SEE MISC. CATALOG (PELTON S.O. #36610)

Return to Revised Index

TO BE MICROFILMED

No.	DATE	REVISION	By
		AS BUILT Date 1-12-61 By	

8" CONTROLED AIR VALVE AT STA. 9466.00 AQUEDUCT #1

SCALE: AS SHOWN	APPROVED	DRAWN R.G.Je.
DATE: 4-25-60	CHIEF ENGINEER	CHECKED

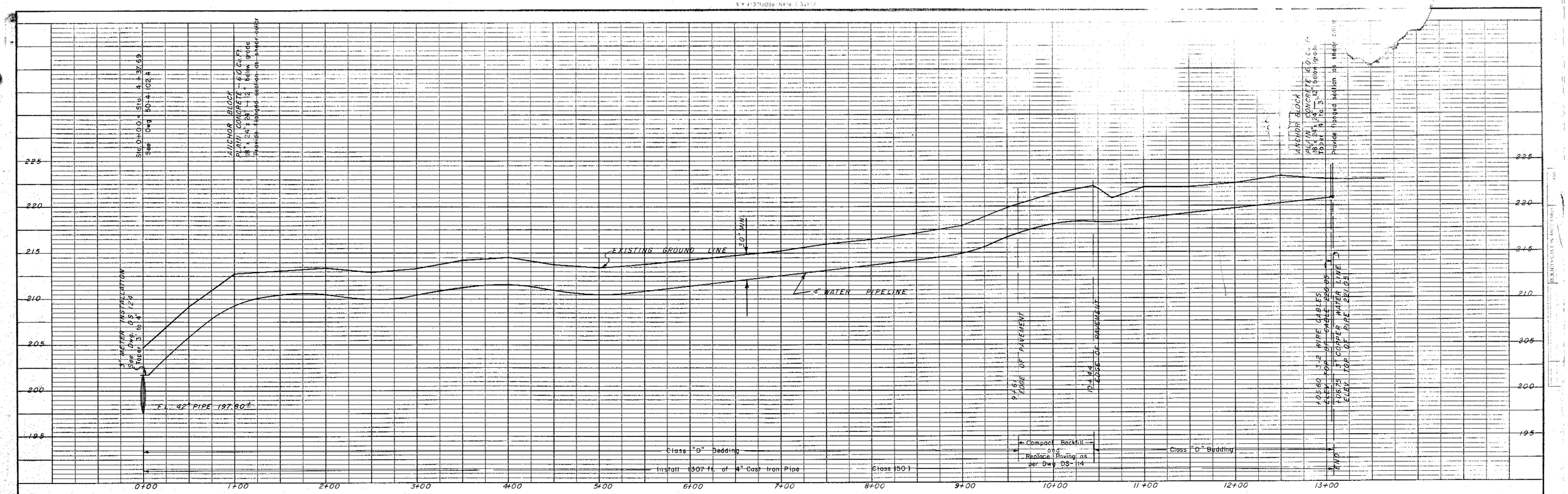
SONOMA COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT

DESIGNED	SUBMITTED	DRAWING NUMBER
O.L.W.	O.L.W.	50-4-111.2AB

PRINTED ON DIEPO NO. 1000N CLEARPRINT

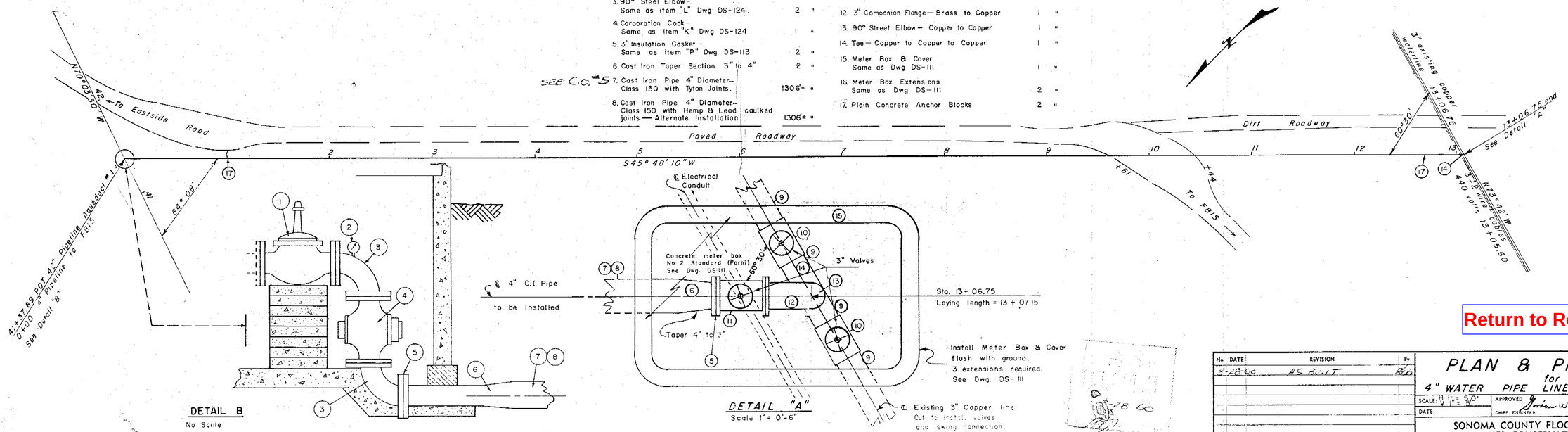
MICROFILMED

PLATE 1 PLAN SCALE 1" = 5'-0"



LIST OF MATERIALS

1	Pressure Reducing Valve - set to 60 psi. Same as item "H" Dwg. DS-124	1 Req'd
2	Pressure Guage — Same as item "N" Dwg DS-104	1 "
3	90° Steel Elbow — Same as item "L" Dwg DS-124.	2 "
4	Corporation Cock — Same as item "K" Dwg DS-124	1 "
5	3" Insulation Gasket — Same as item "P" Dwg DS-113	2 "
6	Cast Iron Taper Section 3" to 4"	2 "
7	Cast Iron Pipe 4" Diameter — Class 150 with Tyton Joints.	1306'± "
8	Cast Iron Pipe 4" Diameter — Class 150 with Hemp & Lead joints — Alternate Installation	caulked 1306'± "
9	Male Adapters — Copper to M.S.P.S.	5 Req'd
10	3" Gate Valve — Same as item "M" Dwg DS-117	2 "
11	3" Gate Valve — Crane No.429 or A.E.	1 "
12	3" Companion Flange — Brass to Copper	1 "
13	90° Street Elbow — Copper to Copper	1 "
14	Tee — Copper to Copper to Copper	1 "
15	Meter Box & Cover Same as Dwg DS-111	1 "
16	Meter Box Extensions Same as Dwg DS-111	2 "
17	Plain Concrete Anchor Blocks	2 "



Return to Revised Index

No.	DATE	REVISION	By
5-28-66		AS BUILT	RJD

PLAN & PROFILE for 4" WATER PIPE LINE TO F.B.I.S.

SCALE: H 1" = 5'-0" V 1" = 5'

DATE:

APPROVED Gordon W. Mueller CHIEF ENGINEER M.E. 8271

DRAWN R.G. Jr.

DESIGNED H.G. Jr.

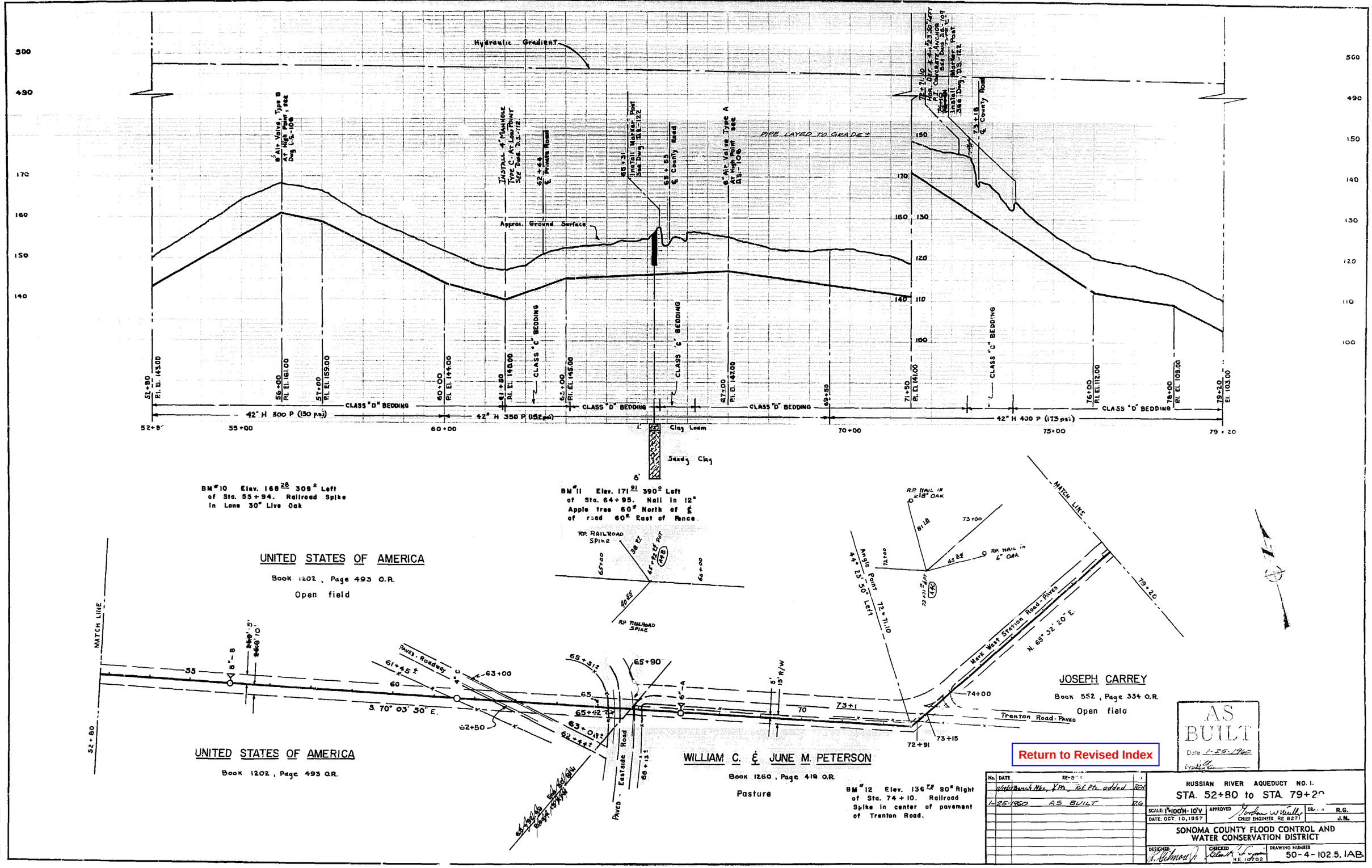
SONOMA COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT

CHECKED Glen K. Jamison R.E. 10705

SUBMITTED C. Brainard R.E. 8271

DRAWING NUMBER 50-4-102 4A

Return to Revised Index
Hydraulic Gradient
Approx. Ground Surface
6" Air Valve Type B At High Point See Dwg. DS 106
6" Pumping Tee & Blowoff Type A Lt At Low Point See Dwg DS-113
6" Air Valve Type B At High Point See Dwg. DS-106
37+99.04 P.I. Concrete Anchor See Dwg. DS 109
Install 4" Manhole Type C At Low Point See Dwg. D.S.-112
6" Air Valve Type B at High Point See Dwg. DS 106
41+37.69 Install 3" Meter Outlet Cmit Pressure Regulator See Dwg. DS 124 4' Meter Box 15°52' Rt.
41+46 3" Mtr 6-12-74 AQ 26" Deep STA 42+54
PIPE LAYED TO GRADE
Install 4" Manhole Type C At Low Point See Dwg. D.S.-112
Install 4" Manhole Type C At Low Point See Dwg. D.S. 112
26+40 El. 209.96
27+80 P.I. El. 211.92
28+70
28+80 P.I. El. 197.00
30+76 P.I. El. 199.00
32+00 P.I. El. 213.00
36+00 P.I. El. 211.08
38+00 P.I. El. 201.00
38+25
39+20 P.I. El. 180.00
40+50 P.I. El. 199.00
42+00 P.I. El. 196.77
46+00 P.I. El. 171.00
49+00 P.I. El. 160.00
50+00 P.I. El. 156.00
52+80 P.I. El. 143.00
-9°14'
-13°07'
+18°08'
-1°15'
+0°04'
+19°15'
-9°10'
-0°40'
+7°03'
-6°06'
+5°53'
Type A Anchor Welded Joints
Type C Anchor Welded Joints
Type B Anchor Welded Joints
42"H300P(130psi)
42"H350P(152psi)
CLASS D BEDDING 42"H300P(130psi)
CLASS C BEDDING
CLASS D BEDDING 42"H350P(152psi)
26+40
30+00
35+00
40+00
45+00
50+00
52+80
29+84 P.I. El. 156.00 +46°36'
Red Clay
Gravelly Red Clay
Gravelly Brown Clay
Red Clay
Sandy Red Clay
Sandy Brown Clay
Water 6/21/57
STA 41+15
STA 41+60
41+00
42+00
41+99 P.O.T.
131°39'
Spike
Spike
UNITED STATES OF AMERICA
Book 1202 Page 493 O.R.
Open field
BM#9 Elev. 210.77 45± Right of Sta. 41+06. Nail in 10" Walnut tree along road to F.B.I.S.
6-13-74 / 6-27-74
Between STATION 41+35 / STA. 65+28
INSTALLED 37" MAG ANODES & BONDED 41 JE
5'-NORTH & 4' to 6' DEEP
MATCH LINE 26+40
26+64.21 B.C.
S. 51°18'50" E.
R = 2000
Δ = 26°42'40"
T = 474.82
L = 932.39
BM#7 Elev. 220.38 85± left of Sta. 31+47. Nail in 42" Fir tree 10± North of Fence
R.P. NAIL in Scub Oak
RP NAIL in BASE of Scrub Oak
RP NAIL in POWER POLE
RP NAIL in POWER POLE
RP. 2x2 HUB
26+00
67°55'20"
35+96.60 E.C.
37+00
38+00
S. 24°36'10" E.
37+99.04 ANGLE POINT
45°27'40" LEFT
41+97±
Paved Road
42+32±
CATH. PROT.
43+71±
S. 70°03'50" E
MATCH LINE 52+80
UNITED STATES OF AMERICA
Book 1202 Page 493 O.R.
Open field
NOTE: ALL RUBBER GASKET JOINTS WERE STITCH WELDED ON STEEP DOWN HILL SLOPES
No. DATE REVISION By
1/19/59 Bench Mks, & Pts, Ref. Pts. added REH
1-25-1960 AS BUILT RG
AS BUILT 1-25-1960
RUSSIAN RIVER AQUEDUCT NO. 1
STA. 26+40 to STA. 52+80
SCALE: 1"=100H-10V
DATE: OCT. 10, 1957
APPROVED Gordon W. Miller CHIEF ENGINEER RE 8271
DRAWN R.G. D.M.
SONOMA COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT
DESIGNED R. Lehmann
CHECKED Glen R. Simpson RE 10702
DRAWING NUMBER 50-4-102.4.1AB



Hydraulic Gradient
Approx. Ground Surface
PIPE LAYED TO GRADE ±
CLASS "C" BEDDING
CLASS "D" BEDDING
42" H 300 P (130 psi)
42" H 350 P (152 psi)
42" H 400 P (173 psi)
Clay Loam
Sandy Clay
BM #10 Elev. 168.28 308' Left of Sta. 55+94. Railroad Spike in Lone 30" Live Oak
BM #11 Elev. 171.91 390' Left of Sta. 64+95. Nail in 12" Apple tree 60' North of ℄ of road 60' East of Fence.
UNITED STATES OF AMERICA
Book 1202, Page 493 O.R.
Open field
UNITED STATES OF AMERICA
Book 1202, Page 493 O.R.
WILLIAM C. & JUNE M. PETERSON
Book 1260, Page 419 O.R.
Pasture
JOSEPH CARREY
Book 552, Page 334 O.R.
Open field
BM #12 Elev. 136.72 80' Right of Sta. 74+10. Railroad Spike in center of pavement of Trenton Road.
MATCH LINE
Mark West Station Road - Paved
Trenton Road - Paved
Eastside Road
S. 70° 03' 50" E.
N. 65° 32' 20" E.
Angle Point 44° 23' 50" Left
AS BUILT
Date 1-25-1960
Return to Revised Index
RUSSIAN RIVER AQUEDUCT NO. 1.
STA. 52+80 to STA. 79+20
SCALE: 1"=100'H-10'V
DATE: OCT. 10, 1957
APPROVED
CHIEF ENGINEER RE 8271
R.G.
J.N.
SONOMA COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT
DESIGNED
CHECKED
RE 10702
DRAWING NUMBER
50-4-102.5.1AB

Hydraulic Gradient

PIPE LAYED TO GRADE 1

490 / 110 / 100 / 90 / 80

90 / 80 / 70 / 60 / 50

100 / 90 / 80 / 70 / 60 / 50 / 40

95+75 INSTALL MARKER POST SEE DRAWING DS-122

88+55 INSTALL MARKER POST SEE DRAWING DS-122

91+85.66 P.O.T. BACK
80+20.23 E.C. AHEAD

99+25 ℄ County Road

99+47 INSTALL MARKER POST SEE DRAWING DS-122

6" Blowoff and Pumping Tee Type A Lt. At Low Point See Drawing DS-113

℄ County Road

Approx. Ground Surface

79+20 El. 103.00

80+00 P.I. El. 99.00

82+00 P.I. El. 95.00

82+90

86+00 P.I. El. 78.0

88+00 P.I. El. 74.00

90+25 P.I. El. 73.00

91+00 P.I. El. 66.00

93+00 P.I. El. 57.04

98+00 P.I. El. 56.04

98+80 P.I. El. 55.00

102+00 P.I. El. 47.06

104+70 P.I. El. 57.00

105+60 El. 53.09

CLASS "D" BEDDING — 42" H 400 P (173 PSI)

CLASS "C" BEDDING

CLASS "D" BEDDING — 42" H 450 P (195 PSI)

CLASS "C" BEDDING

CLASS "D" BEDDING

79+20 | 85+00 | 90+00 | 95+00 | 105+60

SANDY LOAM

3 BLACK COMPACTED CLAY

7 8 SAND, WATER 6/24/57

Rr NAIL IN 6" Oak

RP NAIL IN 12" Oak — 133 Lf — 24" HUB — 71 — 20° 20' 15" — A 12

82+32 B.C.

JOSEPH CARREY
Book 552 Page 334 O.R.
Open field

R = 2000.00
Δ = 24° 45' 30"
L = 864.23
T = 438.97

N 65° 32' 20" E

Paved Road

60

82+26.36 B.C.

15' R/W

5'

MATCH LINE

BM #13 Elev. 80 24/75 Left of Sta. 88+22. Nail in 6" Willow in Clump of Willows.

88+95

EQUATION

90+90.59 E.C.

91+95.68 BACK
90+20.23 E.C. AHEAD

Open field

VIOLET FAUGHT ET. AL.
Book 872 Page 148 O.R.
Construction Easement

30' 10' 20'

85° 42' 10" E

80 — 95

MARK WEST STATION ROAD

87+00±

86+00±

MARK WEST STATION ROAD

PAVED ROAD

97+00.58 B.C.

98+85.2

99+47±

Pasture

Permanent Easement

6" A Lt.

R = 1643.22
Δ = 22° 49'
L = 654.37
T = 331.58

105 MATCH LINE

105+60 P.O.C.

R = 1500.00
Δ = 21° 13' 10"
L = 555.52
T = 280.98

102+56.10 P.R.C.

BM #14 Elev. 56 64/75 35 ° Right of Sta. 104+00. Spike in 24" Oak Tree.

97+00.58 B.C.

RP. 2x2 NAIL — Tel & Tel Pole — 91.66

RP. 2x2 NAIL — 34.56 Rt. — A 12 A

102+56.10 P.R.C. — 165.86 — 143.21

RP. NAIL IN CLUMP OF TREES

RP. NAIL in 24" Oak (BM # 14)

Return to Revised Index

No.	DATE	REVISION	By
	11/6/59	Bench Mks, X Pts, Prof Pts added	RCH
	1-26-1960	45 Sheet	RG

RUSSIAN RIVER AQUEDUCT NO. 1

STA. 79+20 to STA. 105+60

SCALE: 1" = 100H · 10V

DATE: OCT. 10, 1957

APPROVED Gordon W. Muller CHIEF ENGINEER RE 8271

DRAWN R.G.

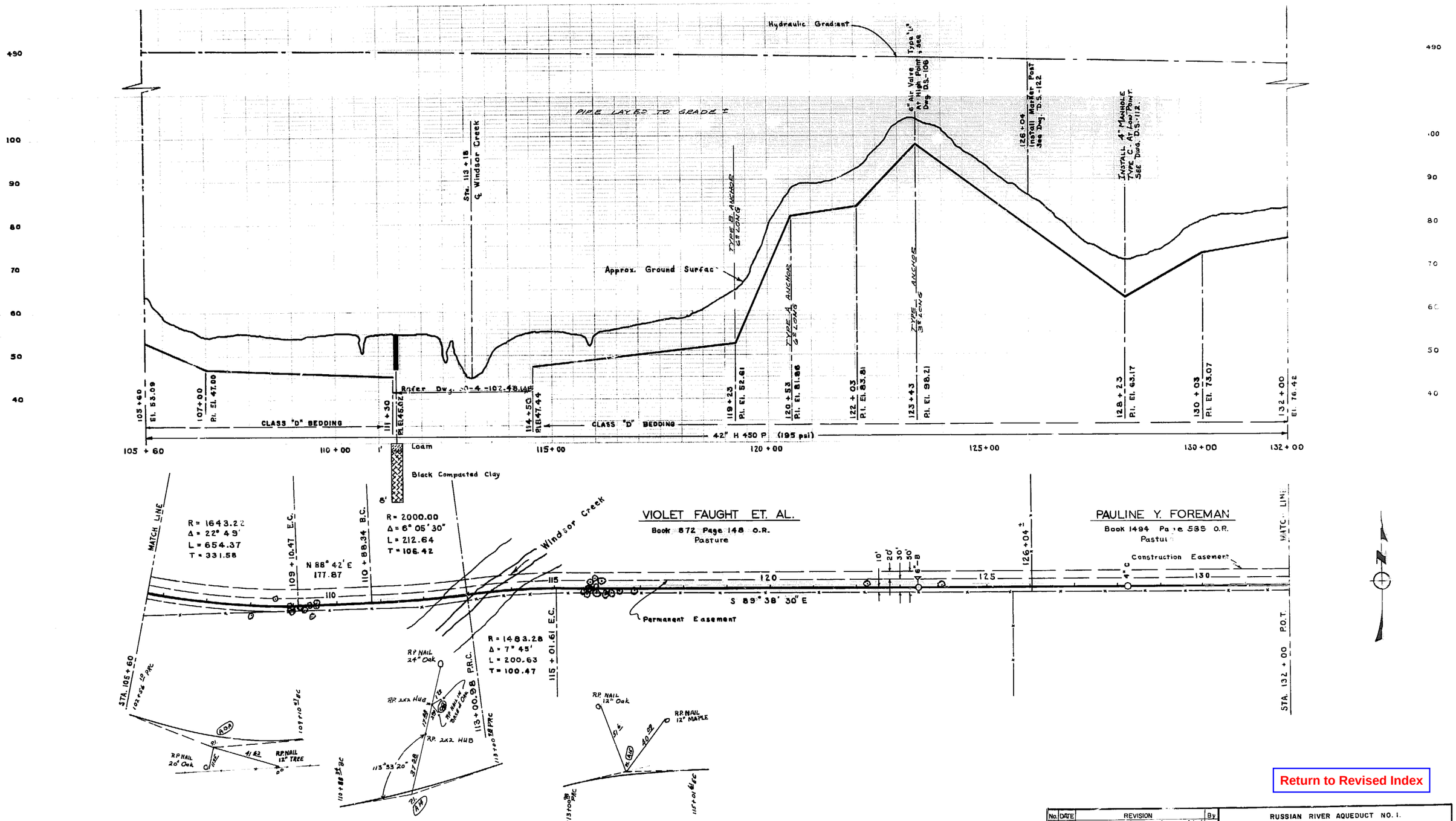
C.J.

SONOMA COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT

DESIGNED F.E. Winger

CHECKED Glen R. Thompson RE 10702

DRAWING NUMBER 50-4-102.6.1AB



BM #15 Elev. 55.92 40° Left of Sta. 112+10. Spike in 10" Oak Tree.

BM #16 Elev. 59.51 27° Left of Sta. 121+07. Spike in 12" Oak. Tree.

AS BUILT
Date 1-26-1960
By [signature]

Return to Revised Index

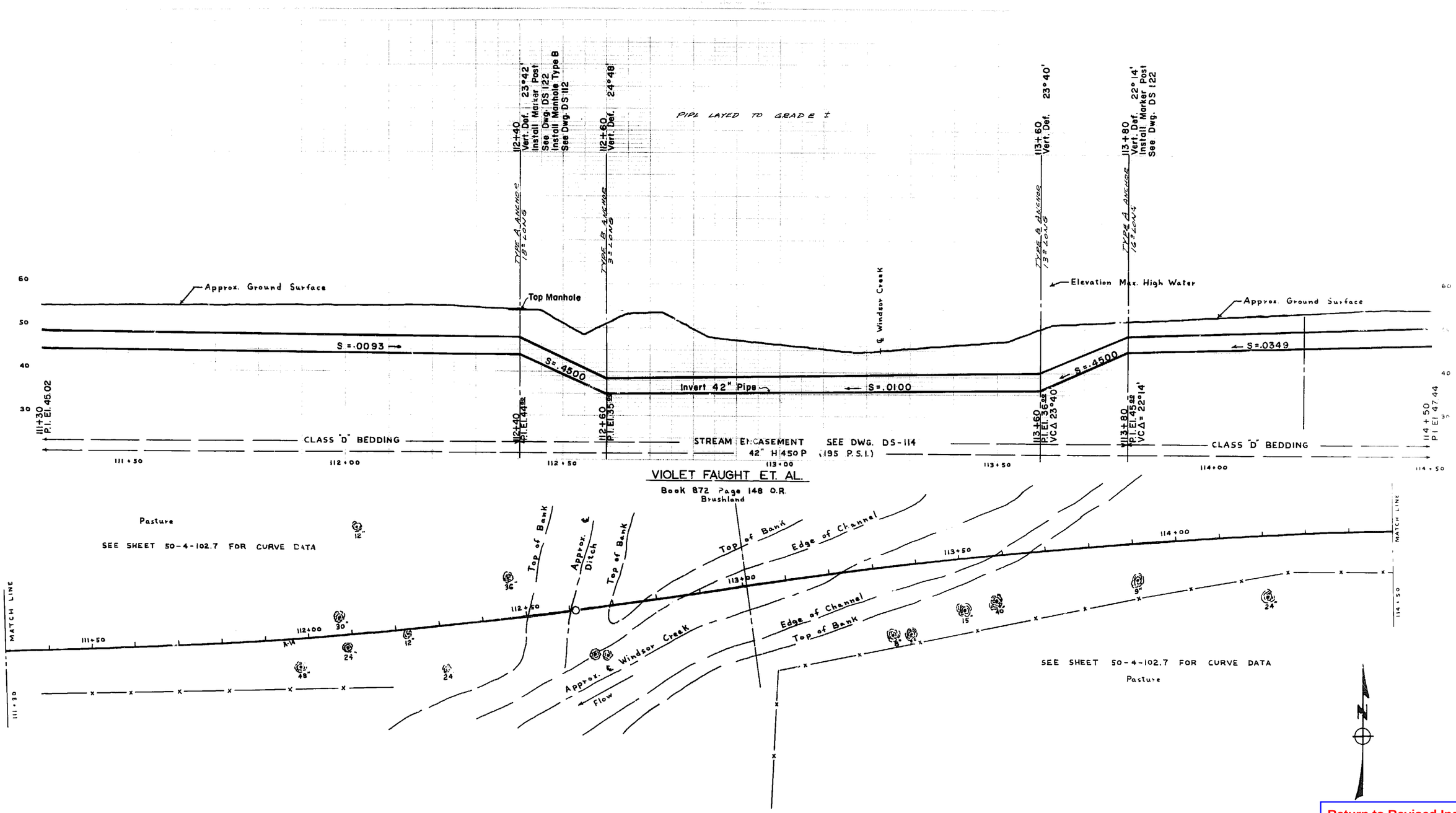
No.	DATE	REVISION	By
	11/9/57	Beach Mks., Y. Pts., Ref. Pts. added	RFH
1	1-26-1960	AS BUILT	RG

RUSSIAN RIVER AQUEDUCT NO. 1.
STA. 105+60 to STA. 132+00

SCALE: 1" = 100H-10V | APPROVED [signature] CHIEF ENGINEER RE8271 | DRAWN R.G. J.N.
DATE: OCT 10, 1957

SONOMA COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT

DESIGNED [signature] | CHECKED [signature] RE 18702 | DRAWING NUMBER 50-4-102.7.1AB



Return to Revised Index

AS BUILT
Date 1-26-1960

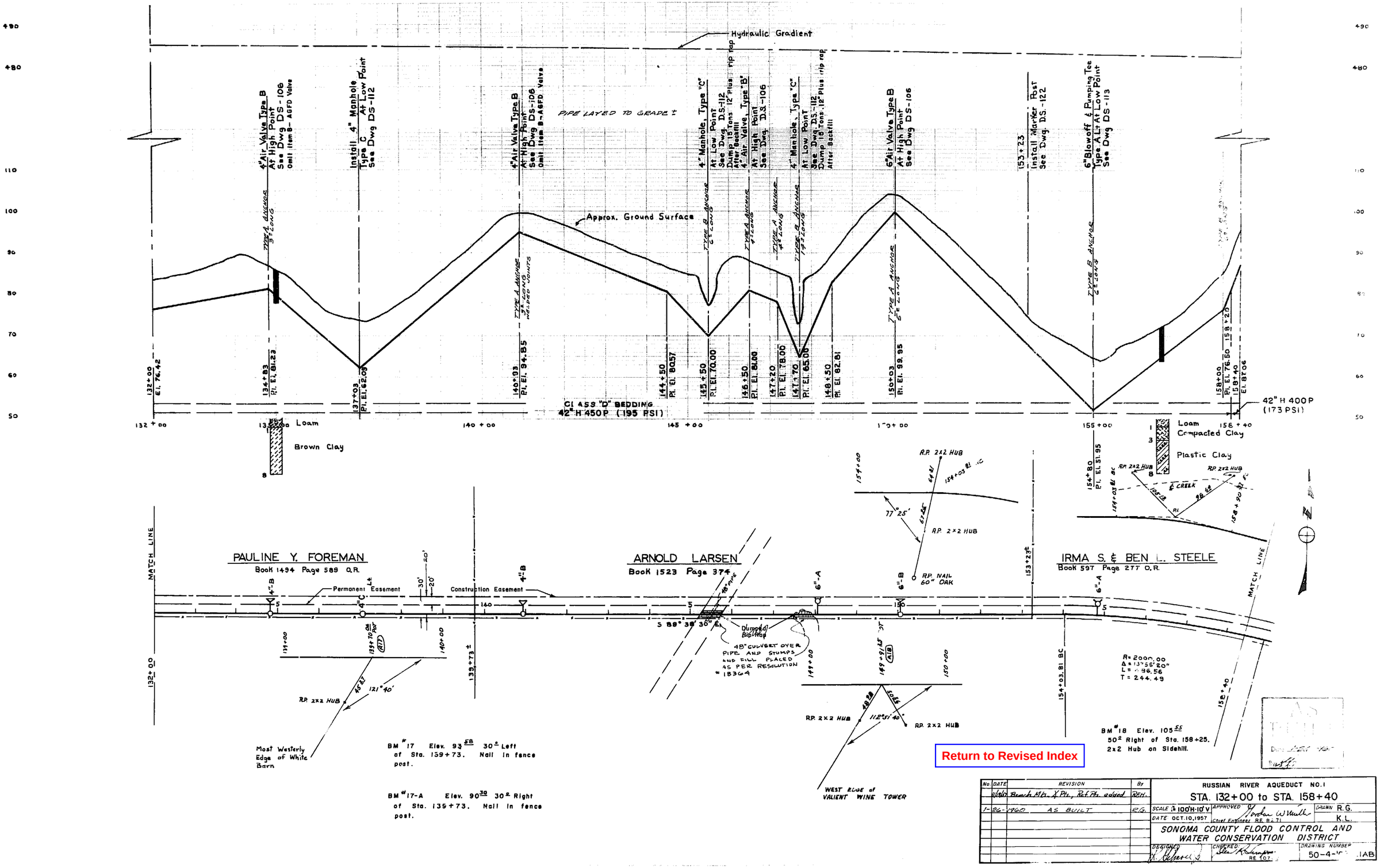
No.	DATE	REVISION	BY
1	1-26-1960	AS BUILT	

RUSSIAN RIVER AQUEDUCT NO. 1
WINDSOR CREEK CROSSING

SCALE 1"=10'H-10'V | APPROVED Jordan W. Mills | DRAWN R.G.
DATE | Chief Engineer | E.S.

ONOMA COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT

DESIGNED | CHECKED | DRAWING NUMBER 50-4-102.48.1 AB



Return to Revised Index

No.	DATE	REVISION	By
		Bench Mks. X Pts., Ref Pts. added	REH.
1	26	1960 AS BUILT	R.G.

RUSSIAN RIVER AQUEDUCT NO. 1

STA. 132+00 to STA. 158+40

SCALE 1" = 100'H-10'V

DATE OCT. 10, 1957

APPROVED Chief Engineer RE 8271

DRAWN R.G. K.L.

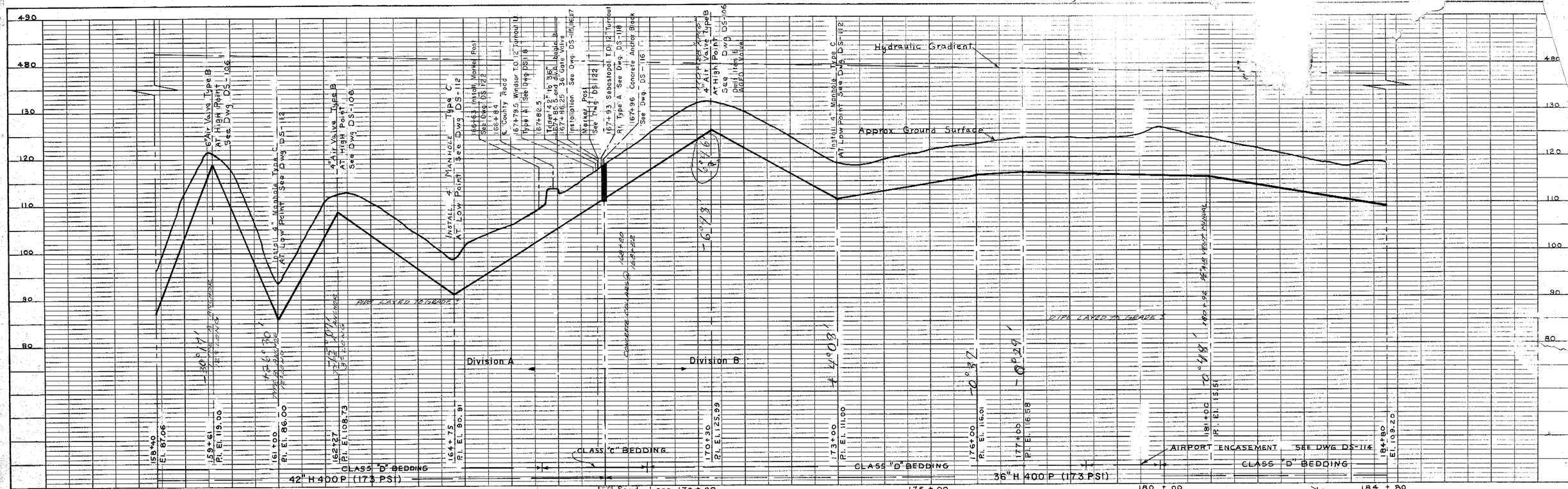
SONOMA COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT

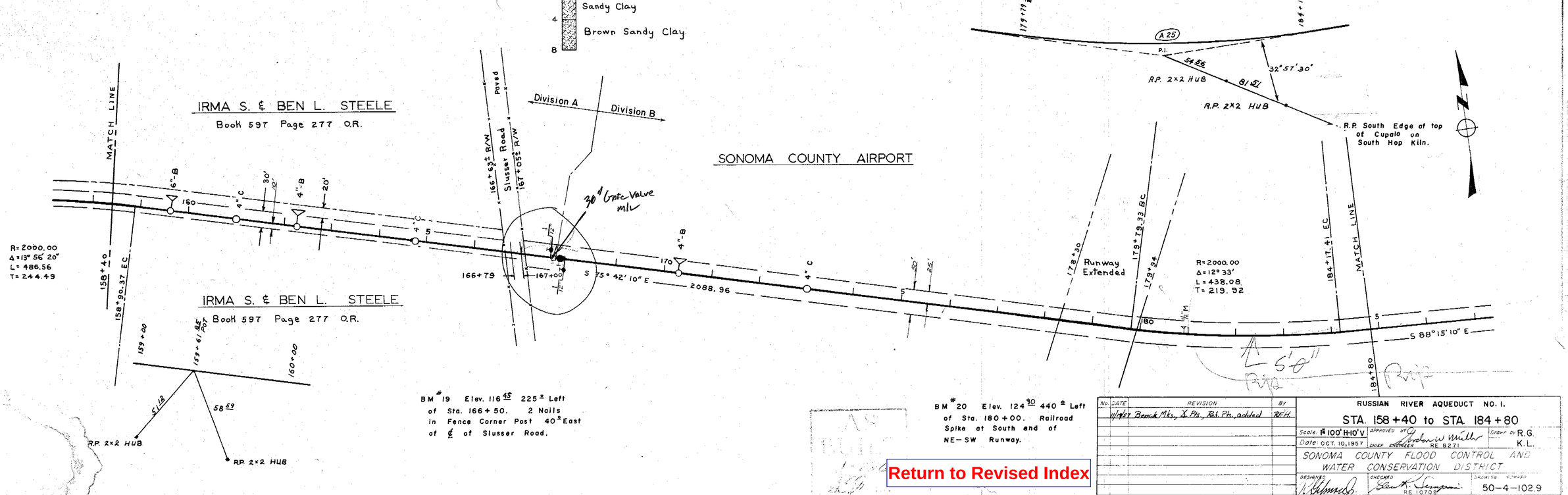
DESIGNED

CHECKED RE 107

DRAWING NUMBER 50-4-1 .IAB

PLATE 1: PLAN, PROFILE, F.A.S.
(LEEDEX-AT PAPER, CO. S. F. CAL. No. 1004)





No.	DATE	REVISION	BY
	11/61	Bench Mks., ⅄ Pts., Ref. Pts., added	REH.

RUSSIAN RIVER AQUEDUCT NO. 1.

STA. 158+40 to STA. 184+80

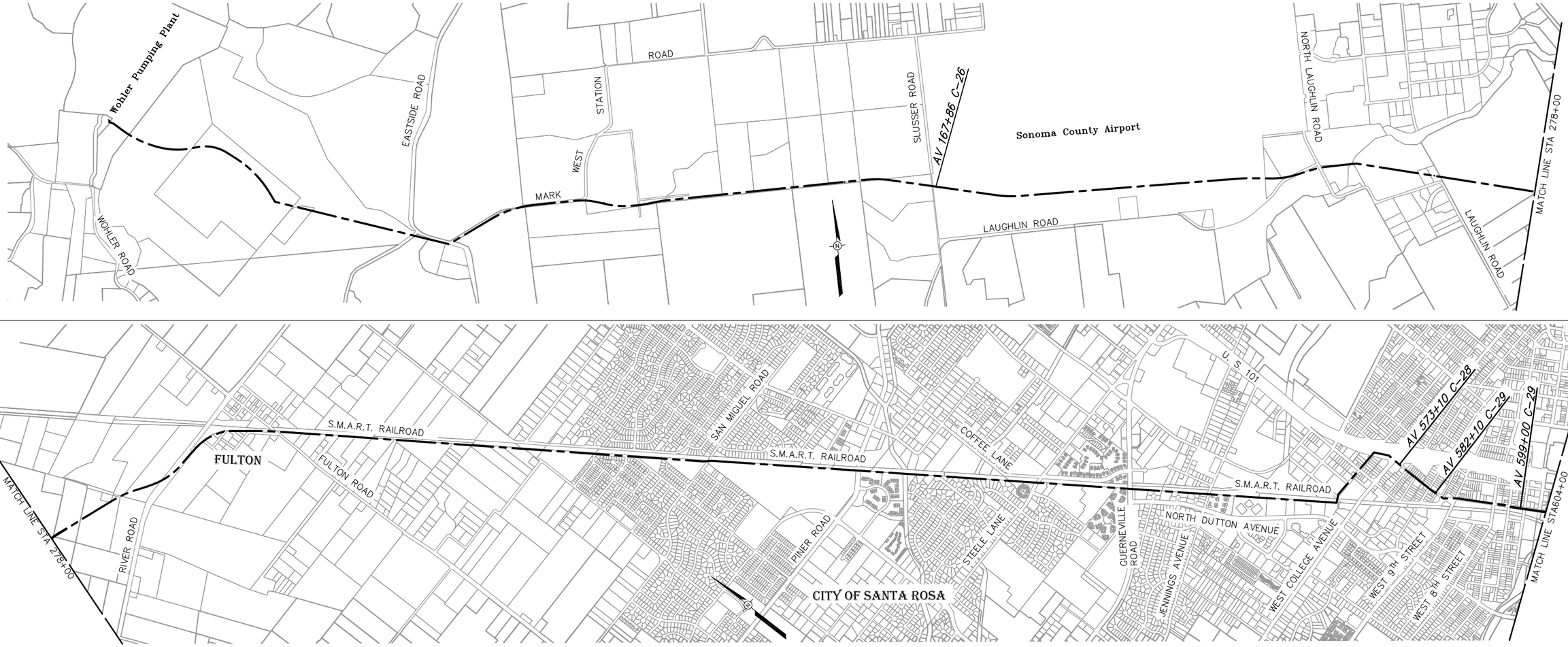
Scale: H 100' H-10' V | APPROVED BY: Gordon W. Müller, CHIEF ENGINEER RE 8271 | DRAWN BY R.G. K.L.

Date: OCT. 10, 1957

SONOMA COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT

DESIGNED | CHECKED Earl A. Simpson RE 10792 | DRAWING NUMBER 50-4-102.9

Return to Revised Index



PROJECT RECORD DRAWING

Prepared by:

Pipeline Excavators
P.O. Box 1755
Sebastopol, Ca 95473

(707) 824-8546

January 28, 2009

Return to Revised Index

REGISTERED PROFESSIONAL ENGINEER
DALE P. ROBERTS
No. M 029944
Exp. 6/30/08
MECHANICAL
STATE OF CALIFORNIA

REGISTERED PROFESSIONAL ENGINEER
DALE P. ROBERTS
No. C 67949
Exp. 6/30/09
CIVIL
STATE OF CALIFORNIA

BAR LENGTH ON ORIGINAL DRAWING EQUALS ONE INCH. ADJUST SCALE ACCORDINGLY

1000 0 1000 2000 4000
SCALE IN FEET

NO.	DATE	REVISION	BY
	07/25/08	CONFORMED	
R	04-14-09	RECORD DRAWING ACCEPTED BY SCWA	

SONOMA COUNTY WATER AGENCY

SCALE: AS SHOWN
DATE: 28/05/2008
DRAWN: ADF
REVIEWED:

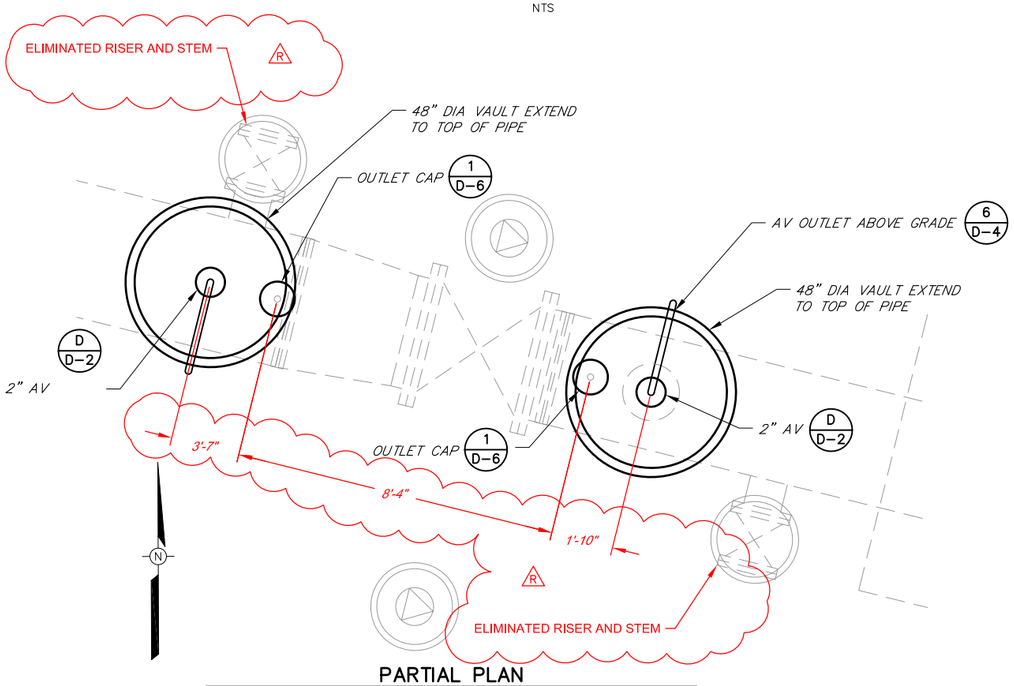
AIR VALVE UPGRADE PROJECT PHASE 1
SANTA ROSA AQUEDUCT
GENERAL LOCATION MAP

FILE NAME: 4078c-25R.dwg
CONTRACT NUMBER: 60-4-7 #14
DRAWING NUMBER: C-24
SHEET 29 OF 63

\\Sd-data\Proj\water transmission\pipelines\4078_AV-Replacement\4078_record-dwgs\4078c-25R.dwg

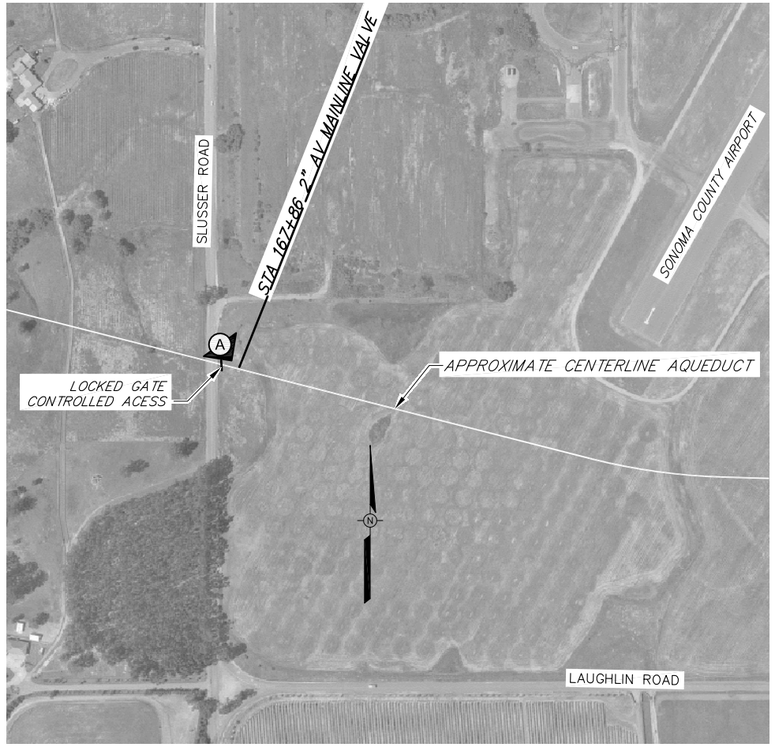
VIEW – A

NTS



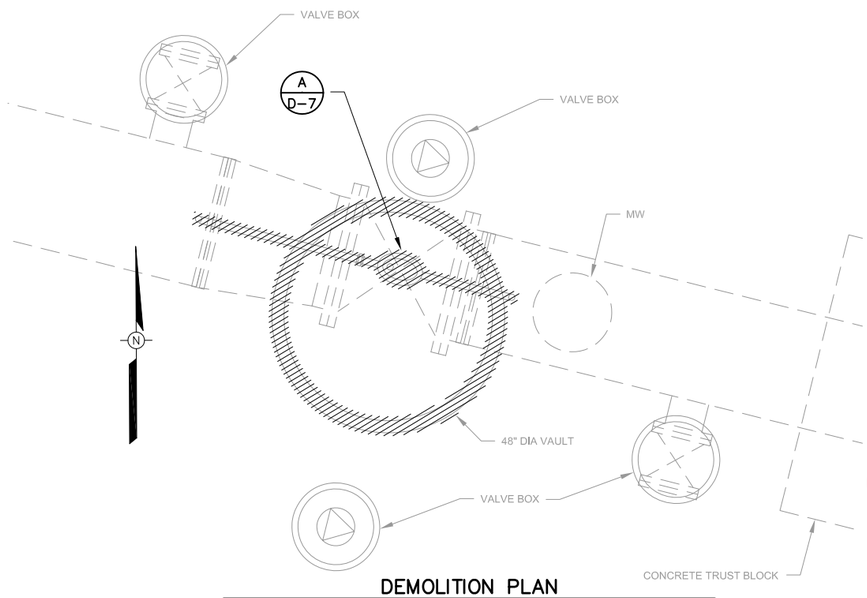
PARTIAL PLAN

NTS



SITE PLAN

SCALE: 1" =100'



DEMOLITION PLAN

NTS

PROJECT RECORD DRAWING

Prepared by:

Pipeline Excavators
P.O. Box 1755
Sebastopol, Ca 95473

(707) 824–8546

January 28, 2009

NOTE:
R
APPROXIMATELY 4.6 5 FEET OF COVER OVER PIPE

Return to Revised Index

BAR LENGTH ON ORIGINAL DRAWING EQUALS ONE INCH. ADJUST SCALE ACCORDINGLY

REGISTERED PROFESSIONAL ENGINEER
DALE P. ROBERTS
No. M 029944
Exp. 6/30/08
MECHANICAL
STATE OF CALIFORNIA

REGISTERED PROFESSIONAL ENGINEER
DALE P. ROBERTS
No. C 67949
Exp. 6/30/09
CIVIL
STATE OF CALIFORNIA

NO.	DATE	REVISION	BY
	07/25/08	CONFORMED	
R	04–14–09	RECORD DRAWING ACCEPTED BY SCWA	

SONOMA COUNTY WATER AGENCY

SCALE : AS SHOWN
DATE : 28/05/2008
DRAWN : ADF
REVIEWED :

AIR VALVE UPGRADE PROJECT PHASE 1
SANTA ROSA AQUEDUCT
STA 167+86 SITE PLAN AND DETAILS

FILE NAME: 4078c26–32R.dwg
CONTRACT NUMBER: 60–4–7 #14
DRAWING NUMBER: C–25
SHEET 30 OF 63

\\Sd-data\Proj\water transmission\pipelines\4078_AV-Replacement\4078_record-dwgs\4078c26-32R.dwg

PLATE 1. PLAN-PROFILE F.A.S.
CLEARPRINT PAPER CO. S. F. CAL.
No. 1020H-1

480
470
120
110
100
90
80

Hydraulic Gradient

PIPE LAYED TO GRADE

Approx. Ground Surface

6" Blowoff & Pumping Tee
Type A Lt At Low Point
See Dwg DS-113

4" Air Valve, Type A
At High Point
See Dwg DS-106
Cont. Item 8
AGFD Valve

184+80 El. 109.20

197+45 PI El. 104.80

190+45 PI El. 95.80

192+95 PI El. 95.00

199+45 PI El. 94.90

203+45 PI El. 105.70

205+00 El. 104.77

209+45 PI El. 102.10

211+20 El. 96.50

CLASS "D" BEDDING
36" R 400P (173 PSI)

CLASS "C" BEDDING

CLASS "D" BEDDING

185+00 190+00 195+00 200+00 205+00 210+00

1' Loam
3' Compacted Clay
4' Sandy Brown Clay
7' Gravelly Brown Clay
8' Plastic Clay

1' Loam
3' Compacted Clay
7' Sandy Brown Clay
8' Very Sandy Brown Clay

PUNCH MARK IN TIE-DOWN HOOK

207+00 208+00

51.80 207+22.77 POT (4.26) 48.35 35.05 40.85 00 RR NAIL IN Eucal.

4"-A

SONOMA COUNTY AIRPORT

MATCH LINE

184+80

185 190 195 200 205 210

6"-A-Lt

25' 25'

Permanent Easement

S. 88° 15' 10" E.

Concrete Revetment

MATCH LINE

211+20

Pipe & Valve with sides

Soil pipe conn. Novato 24"

B. COOPER

Paved Access Road

Laughlin Road

BM #21 Elev. 112.53 35.2 Right of Sta. 207+00. Nail in 36" Eucalyptus tree on West Side of Access Road.

Return to Revised Index

NO	DATE	REVISION	BY
		Match Beach Mks., & Pts., Ref. Pts. added	R.F.H.

RUSSIAN RIVER AQUEDUCT NO. 1
STA. 184+80 to STA. 211+20

SCALE: 1" = 100' H-10' V
DATE: OCT. 10, 1957
APPROVED: Jordan W. Smith, Chief Engineer RE 8271
DRAWN R.G. F.L.F.

SONOMA COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT

DESIGNED: R. Johnson
CHECKED: Glen K. Simpson RE 10702
DRAWING NUMBER: 50-4-102.10

PLATE 1 PLAN PROFILE & A.S.
CLEARWAY RAPPA SHEET CAL.
No. 1007-2

480
470
460
130
120
110
100
90
80

Hydraulic Gradient

Approx. Ground Surface

Install 4" Manhole Type C at Low Point See Dwg. DS-112

211+20 El. 96.50

211+95 Pi El. 94.10

213+45 Pi El. 102.35

+10°45'

CLASS D BEDDING

218+45 Pi El. 106.35

+4°03'

236.5' - 36" H 400 P (173 P.S.I.)

AIRPORT ENCASEMENT SEE DWG. DS-114

225+00

CLASS D BEDDING

231+87 12" Turnout Left Type A See Dwg DS 118

231+87 Pi El. 105.05

-10°45'

230+00

-4°03'

Install 4" Manhole Type C at the Low Point See Dwg DS-112

234+00 Pi El. 97.00

235+00

236+20 Install Marker Post See Dwg DS-122

237+00 Pi El. 100.00

-6°13'

237+80 El. 100.04

CLASS C BEDDING

237+60

211+20 215+00 220+00 225+00 230+00 235+00 237+60

Loam

Sandy Brown Clay

8

R.P. 2x2 HUB

50ft.

49.58

A-27 B

MATCH LINE

211+20

SONOMA COUNTY AIRPORT

Permanent Easement

S 88° 15' 10" E

215 220 225

4°C

25' 25'

Runway Extended

-6'2"

-3'9"

SONOMA COUNTY AIRPORT

227+12.15 POT BEHIND = 227+12.15 BC AHEAD

R = 2000.00
Δ = 5°02'
L = 175.70
T = 87.90

228+87.80 EC

211+12 BC

228+87 EC

R = 1500.00
Δ = 17°43' 40"
L = 464.11
T = 233.93

233+30.65 BC

SARA C. LAUGHLIN

Book 556 Page 90 O.R.

S 83° 13' 10" E

230

12

20' 30' 10'

Water Tower

Shed

235

Permanent Easement

Construction Easement

Vineyard

231+97±

MATCH LINE

237+00

237+80

237+30.65 EC

237+76 EC

R.P. NAIL IN 24" Eucalyptus

108.97

77.49

TRAVERSE

NAIL IN BASE of CORNER POST

A-27 A

BM #22 Elev. 110.12 118.12
left of Sta. 231+87. Nail in Eucalyptus. Stump.

AS BUILT 12-6-60

Return to Revised Index

No.	DATE	REVISION	By
	11/19/57	Bench Mks., & Pts, Rel. Pts. added R.H.	

RUSSIAN RIVER AQUEDUCT NO. 1

STA. 211+20 to STA. 237+60

SCALE: 1"=100'H-10'V | APPROVED Wilson W. Mueller, CHIEF ENGINEER RE 8271 | DRAWN R. G. E. S.

DATE: OCT. 10, 1957

SONOMA COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT

DESIGNED K. E. Johnson | CHECKED Allen K. Stevenson RE 10702 | DRAWING NUMBER 50-4-102.11

PLATE 1 PLAN PROFILE F.A.S.
CLEARPRINT PAPER CO. S.F. CAL.
No. 1000H-1

Hydraulic Gradient

Approx. Ground Surface

PIPE LAYED TO GRADE

237+60 El. 100.04

240+50 P.I. El. 100.85

242+00 P.I. El. 103.98

242+76.81 ANGLE POINT BACK
242+64.85 ANGLE POINT AHEAD
@ COUNTY ROAD

242+85 INSTALL MARKER POSTS
SEE DWG. D.S.-122

247+44.50 PRESSURE RELIEF VALVE INSTALLATION
SEE DRAWINGS D.S.-104 AND D.S.-105
INSTALL MARKER POST
SEE DWG. D.S.-122

248+05.50 P.I. El. 102.44

248+45.12 P.I. El. 79.83

248+84.14 ANGLE POINT
15°42'0" RIGHT

249+30.12 P.I. El. 103.29

249+84.18 ANGLE POINT
15°42'0" RIGHT

250+35 MARKER POST
SEE DWG. D.S.-122

STREAM BED ENCASEMENT - SEE DRAWING D.S.-114

36" H 400 P (173 PSI)

256+45 P.I. El. 106.85

258+43 P.I. El. 112.25

260+42 @ PRIVATE ROAD

INSTALL MARKER POST
SEE DWG. D.S.-122

261+93 P.I. El. 101.76

INSTALL 4' MANHOLE TYPE C
AT LOW POINT
SEE DRAWING D.S.-112

264+00 El. 110.03

CLASS 'C' BEDDING

CLASS 'D' BEDDING

237+60 240+00 245+00 255+00 260+00 264+00

460 120 110 100 90 80

SANDY CLAY, SMALL ROCK 3
BROWN CLAY 7
GRAVELLY CLAY, WATER 6/25/57 8

SEE DRAWING 50-4-102.49

MARK WEST CREEK

Equation

Windsor Road

P.G.&E. POWER POLES INSTALLED JUNE 1957

POWER POLE

12% GRADE AIRPORT

ADRIAN STEVENS
Book 659 Page 216
PASTURE

ALLAN G. DICKENSON
Book 1512 Page 378
PASTURE

SARA C. LAUGHLIN
Book 556 Page 90 O.R.

SARA C. LAUGHLIN
Book 556 Page 90 O.R.
VINEYARD

ARCHIE L. STROUT
Book 414 Page 458 O.R.
PRUNE ORCHARD

237+94.76 E.C.

237+00 239+00 240+04

N 79°03'10" E

Laughlin Road PAVED

242+76.81 ANGLE POINT BACK
242+64.85 ANGLE POINT AHEAD 10°55'30" RIGHT

242+85 ± Laughlin Road PAVED

242+77 ±

242+52

237+60

MATCH LINE

FENCE

POTHOLED 3'-2" AGWIN VIBRATED 3' TO TOP OF PIPE 6-15-57 DIRECTIONAL UNDER 2" PVC RISER-TYPE AIR IRRIGATION

LAUGHLIN ROAD

POTHOLE SITE

18" CONCRETE PIPE

N 89°56'40" E
STA. 242+70
12" T/O NORTH
6/2 9/6 '7

245 20 0 20 40

Top of Bank
Mark West Creek Channel
Top of Bank

249+84.18 ANGLE POINT
15°42'0" RIGHT

250 250+25±

30' 20' 10' PERMANENT EASEMENT

255 255+35± 255+72±

4" Surface Irrigation Pipe Line

S 74°47' E
CONSTRUCTION EASEMENT

260 260+75± Entrance Road Dir.

4" C

MATCH LINE

264+00

RP. NAIL IN LIMB of OAK

RP. NAIL IN 12" OAK

RP. CORNER of GREEN HOUSE (4' S High)

RP. 2X2 HUB

128°23'15"

35.68

61.25

63.84

RP. NAIL IN STUMP (BM #24)

RP. NAIL IN PRUNE TREE

RP. NAIL IN 36" TREE

BM # 23 Elev. 114.25 35' Left of Sta. 243+10. SW Corner of Concrete Porch of Green House.

BM # 24 Elev. 111.91 45' Right of Sta. 250+60. Spike in 6" Oak Stump on Fence Line.

AS BUILT

Return to Revised Index

No.	DATE	REVISION	BY
	11/15/57	Bench Mks., Y Pts., Rel. Pts added	R.F.H.

RUSSIAN RIVER AQUEDUCT NO. 1
STA. 237+60 to STA. 264+00

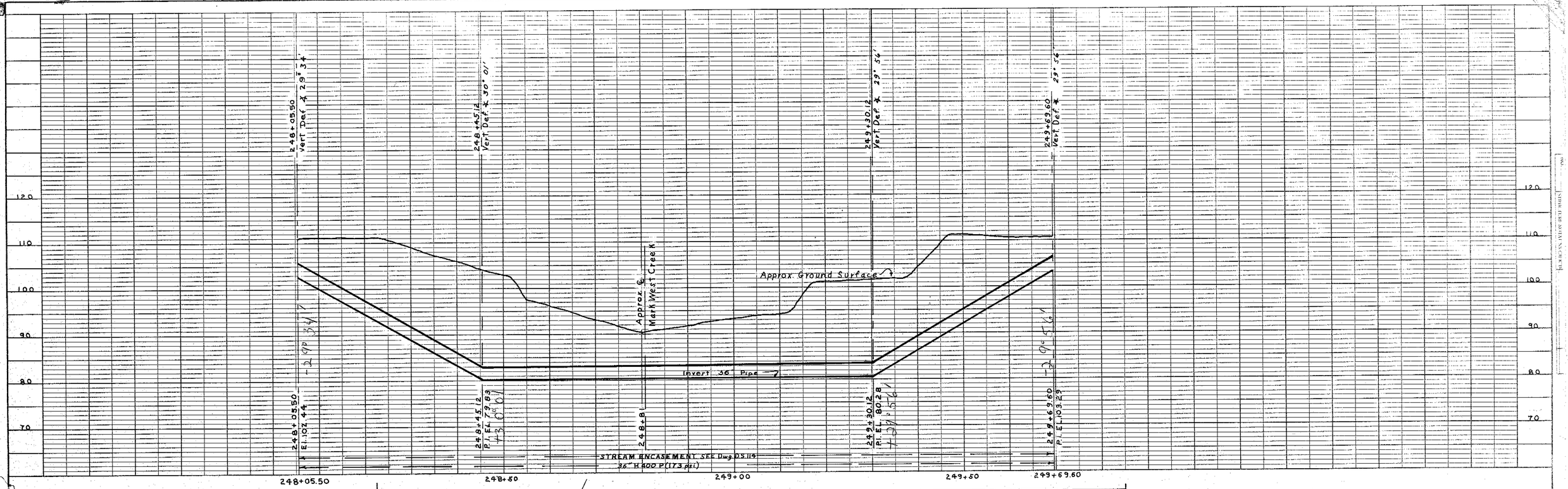
SCALE: 1"=100H-10V | APPROVED: Jordan W. Smith, Chief Engineer, RE 8271 | DRAWN: R.G., C.J.

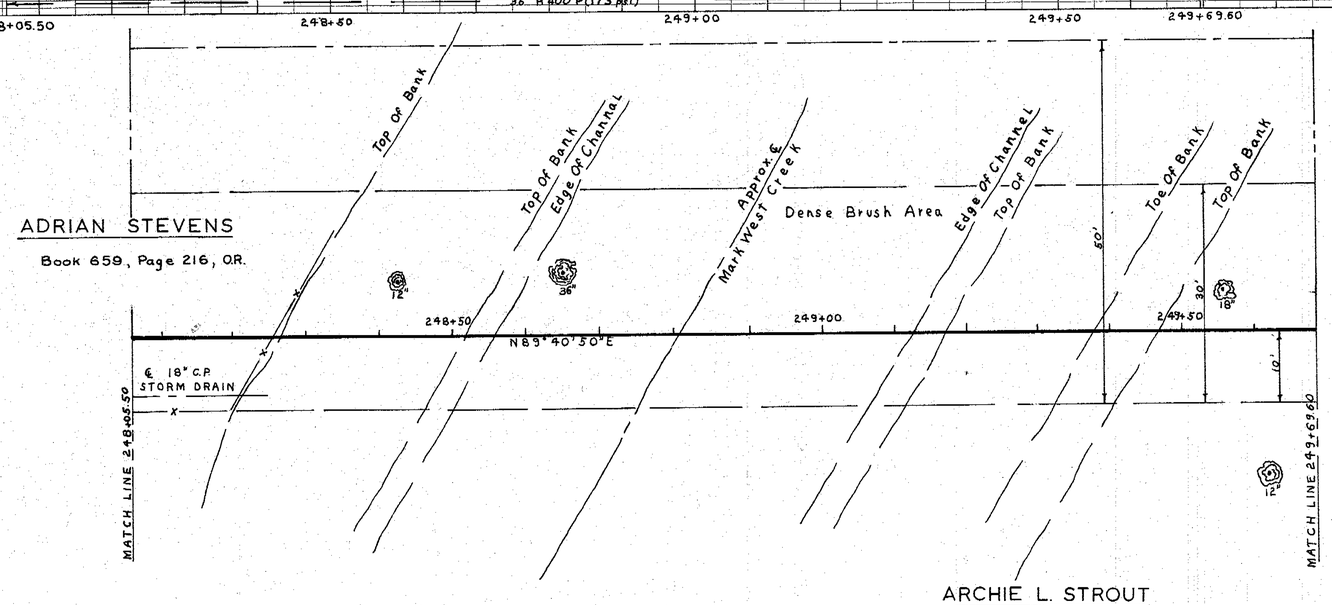
DATE: OCT. 10, 1957

SONOMA COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT

DESIGNED: K. Hansen | CHECKED: Clark Simpson, RE 10765 | DRAWING NUMBER: 50-4-102.12

PLATE 3 PLAN-PROFILE-C.A.S.
CLEARWATER PAPER CO. S.F. CAL.
No. 1000H-1





Return to Revised Index

For adjacent details see dwg. 50-4-102.12

No.	DATE	REVISION	By
		AS BUILT	

RUSSIAN RIVER AQUEDUCT NO. 1

MARK WEST CREEK CROSSING

SCALE 1" = 10'H-10'V | APPROVED Joseph W. Muller, CHIEF ENGINEER | DRAWN D.M.

DATE:

SONOMA COUNTY FLOOD CONTROL AN WATER CONSERVATION DISTRICT

DESIGNED | CHECKED | DRA

50-4-102.49.AB

PLATE 1-PLAN-PROFILE-F.A.S.
CLEARPRINT PAPER CO. S. F. CAL.
No. 1000H-1

Hydraulic Gradient

Approx. Ground Surface

6" Blowoff & Pumping Tee Type A at Low Point See Dwg. D.S.-113

268+55 ℄ Private Road

PIPE LAYED TO GRADE

285+76 INSTALL MARKER POST SEE Dwg. D.S. 2.2

264+00 El. 110.03
265+43 Pi. El. 111.75
266+00 Pi. El. 110.76
268+43 Pi. El. 102.25
270+43 Pi. El. 101.25
271+93 Pi. El. 96.75
272+93 Pi. El. 102.50
273+45 4" Irrigation Pipeline
274+50
280+43 Pi. El. 110.25
290+40 El. 110.64

-1244'
-1035'
+1443'
-1426'
+5200'
-3500'
-8410'

CLASS "C" BEDDING
CLASS "D" BEDDING
36" H400 P(173psi)
36" H350 P(152 psi)

264+00 265+00 270+00 275+00 280+00 285+00 290+40

460 450 120 110 100 90 80

Loam
Brown Clay And Small Rock
Brown Clay
Gravelly Clay

ALLAN G. DICKINSON
Book 1512 Page 399 O.R.
Pasture

House
Dirt Entrance Rd.
Laughlin Rd.
MATCH LINE 264+00
265+74±
268+30±
269+80±
272+60±
Irrig. Well
S. 74°47'E
S. 69°18.5'E
273+45±
4" Tar Coated Irrigation Pipe Line

ALBINO & FLORENCE GILARDONI
Book 501 Page 408 O.R.
Pasture

ALBINO & FLORENCE GILARDONI
Book 501 Page 408 O.R.

R.P. 2x2 HUB
R.P. NAIL IN TREE
284+15.5 B.C.
284+65.4 E.C.
R = 2000
Δ = 5°29'
L = 191.40
T = 95.78
284+75.5 B.C.
285+66.9 E.C.
286+25±
MATCH LINE 290+40

ROSALIA BISORDI
Book 1008 Page 325 O.R.
Vineyard

WILLIAM G. BERTOLI
Book ~~505~~ 511 Page ~~447~~ 21 O.R.
~~Book 1044 Page 279 O.R.~~
Orchard

R.P. CORNER of Foundation Just Below Siding
HOUSE
N 66°
64.28
263+00
263°39' 65' Right (#25)
264+00

BM #26 Elev. 110.79 65' Right of Sta. 266+90. Spike in P. T. & T. Pole #13.

BM #26A Elev. 119.05 300' Left of Sta. 288+00. Spike in Lone 48" Oak Tree.

A.S. BENNETT

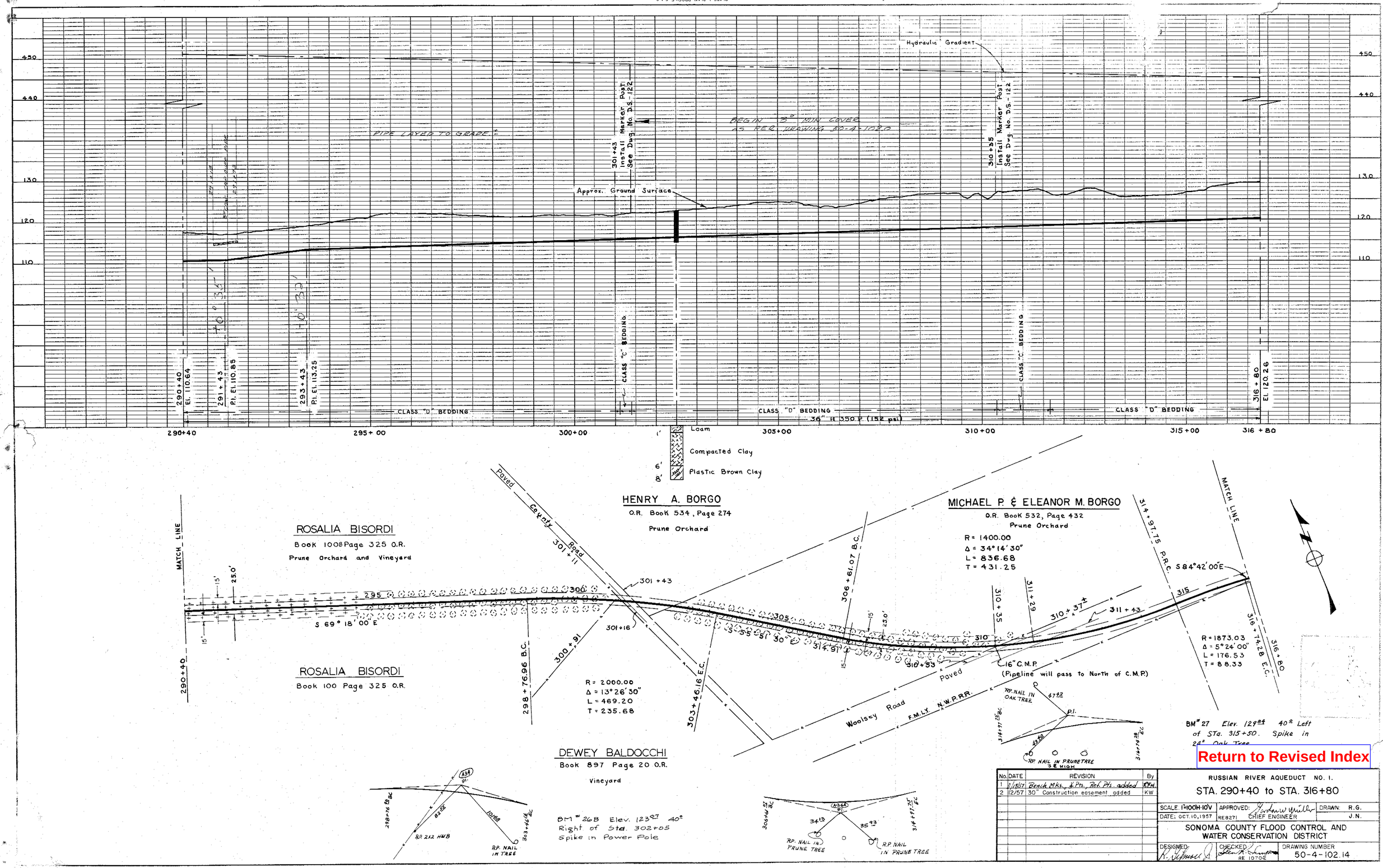
Return to Revised Index

No.	DATE	REVISION	By
1	11/19/57	Bench Mks., & Pts., Rel Pts. added	RFH
2	12/57	30' Construction easement added	KW

RUSSIAN RIVER AQUEDUCT NO. 1
STA. 264+00 to STA. 290+40
SCALE: 1"=100H-10V
DATE: OCT. 10, 1957
APPROVED: Jordan W. Mills Chief Engineer RE 8271
DRAWN: R. G. D. M.
SONOMA COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT
DESIGNED: R. Bennett J. CHECKED: Jack K. Simpson RE 10702
DRAWING NUMBER 50-4-102.13

NO. — DWG. ENGINEERING STRUCTURES DIVISION FILE

PLATE 1-PLAN-PROFILE-F.A.S.
DUPLICATE PRINT MADE FROM PAPER COPY ON FILE IN DEPT. OF PUBLIC WORKS, SANTA ROSA, CAL.
No. 1000H-1



Return to Revised Index

No.	DATE	REVISION	By
1	9/1957	Bench Mks. & Pts., Ref. Pts. added	R.G.H.
2	12/57	30" Construction easement added	K.W.

RUSSIAN RIVER AQUEDUCT NO. 1.
STA. 290+40 to STA. 316+80

SCALE: 1"=100H-10V | APPROVED: [signature] CHIEF ENGINEER | DRAWN: R.G. J.N.
DATE: OCT. 10, 1957 | RE 8271

SONOMA COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT

DESIGNED: [signature] | CHECKED: [signature] RE 10702 | DRAWING NUMBER 50-4-102.14

PLATE 1. PLAN-PROFILE F.A.S.
CLEARPRINT PAPER CO., S. F. CAL.
No. 1000H-1

440 / 430 / 140 / 130 / 120 / 110 / 100 / 90 / 80

Hydraulic Gradient

Approx. Ground Surface

3" MIN. COVER AS PER 50-4-102.0

320+49 Install Marker Post See Dwg. DS1122

323+25 36" Gate Valve Installation Type A Concrete Anchor Air Valve Installation Type A Refer Dwg. DS-115, 116, & 117

324+75 36" Gate Valve Installation Type A Concrete Anchor Air Valve Installation Type A Refer Dwg. DS-115, 116, & 117

325+60 12" Turnout Left - Type A Refer Dwg. DS-118

335+00 ℄ County Road

316+80 El. 120.26

317+74 3/4" Gas Service El. 126.23 Top

320+93 2" Gas Main El. 126.55 Top

326+84 3" Telephone Cable El. 127.42 Top

328+94 3" Telephone Cable El. 128.62 Top

329+80 2" Gas Main El. 130.23 Top

334+63 6" High Pressure Gas Main El. 131.15 Top

334+94 3" Telephone Cable El. 130.32 Top

335+00 Pkl. El. 125.76

CLASS "D" BEDDING | CLASS "C" BEDDING | CLASS "D" BEDDING | CLASS "C" BEDDING

36" H 350 P (152 PSI)

316+80 | 320+00 | 325+00 | 330+00 | 335+00

Plastic Black Clay / Brown Clay / Sandy Brown Clay / Water 6-26-57

Plastic Black Clay / Brown Clay

WOOLSEY ROAD

5' | 15' R/W

320+83 | 320+98

N 84° 42' W 320

MATCH LINE

316+80

318+29.22 BC

3/4" GAS LINE

2" Gas Line

Underground Tel. Line

36" 320+99

12"

℄ CENTURIO BOSCHETTI

Book 330 Page 434 OR

Vineyard

320+82

320+99

Paved ℄ County Road

Temporary elev. Stem of bolt in V of tree SC 11164 (Note cross) elev. at this station

6" By-Pass valve about closed & cover over (Steel) SC 11164

7/27/66 STA. 320+80 Pipe installed 12 Gas main under aqueduct 45° to top of aqueduct

5/26/65 STA 324+01 DIST 8" T/O VAL. INSTALLED LARKFIELD

Δ = 12°19' R = 465.00 T = 50.54 L = 100.00

326+87 8°59'40" RIGHT

327+18.06 ANGLE POINT

Hart Lane

2" Gas Line

Paved

HENRY BISORDI

Book 1046 Page 300

Vineyard

RP. NAIL 30" OAK

RP. CROSS ON TOP END OF 15" C.P.

12.72

52.96

3/8 F.D.

3/8+20.23 BC

8/4 F.D.

327+00

327+18.06 EC

32.96

43.84

RP. NAIL IN FENCE POST

328+00

N.W.P.R.R.

Dedicated Easement See Dwg. 50-4-102.50

329+56.08 BC

330+61.38 EC

330+05

Paved Road

S 36° 38' E

332+15

332+38.03 BC

R = 2000.00

Δ = 3° 01'

L = 105.30

T = 52.66

334+03.33 EC

335+00

6" Gas Main

OVER-LAP INTO R/W

R/R

BUMPER RAIL LINE

6"x6"x36" POSTS

6"x36" PIPE

RP. NAIL IN 42" PINE

RP. NAIL IN 36" PINE

330+61.38 BC

329+56.08 EC

R = 2000.00

Δ = 3° 01'

L = 105.30

T = 52.66

FULTON

(Unincorporated)

See Dwg. 50-4-1050 for location of utilities

Pl.

RP. NAIL

BARN

RP. NAIL

334+03.33 EC

Bronze Monument at Entrance to Fulton Post Office. BM "28 Elev. 134.03

First Street

S 12° 30' W 315.25

8/20/73 4+55 NO POINT STA 334 ℄ 6" GAS MAIN 55" deep

MATCH LINE

Return to Revised Index

No.	DATE	REVISION	By
	11/1967	Arch Mks. & Pts., Ref. Pts. added REH.	

RUSSIAN RIVER AQUEDUCT NO I.

STA. 316+80 to STA. 335+00

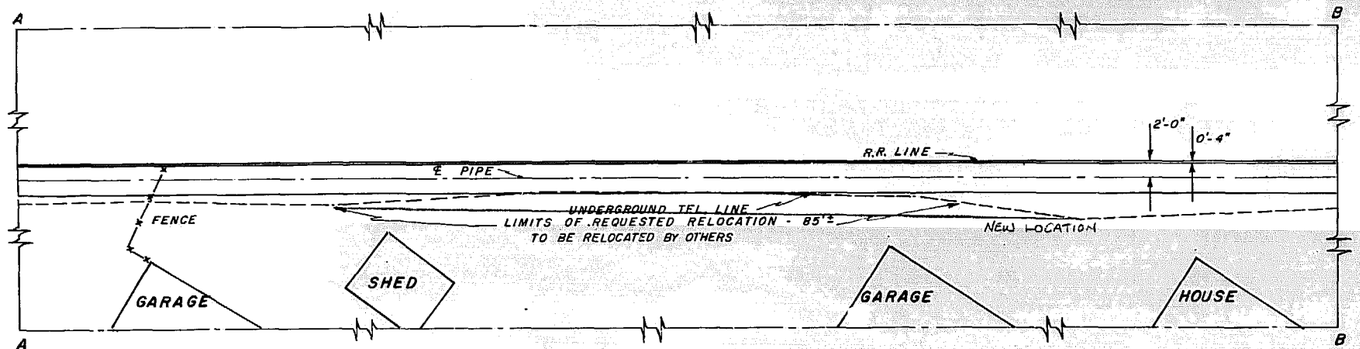
SCALE: 1"=100'H-10'V | APPROVED: Arthur W. Mueller, Chief Engineer RE 8271 | DRAWN R. G. | E. S.

DATE OCT. 10, 1957

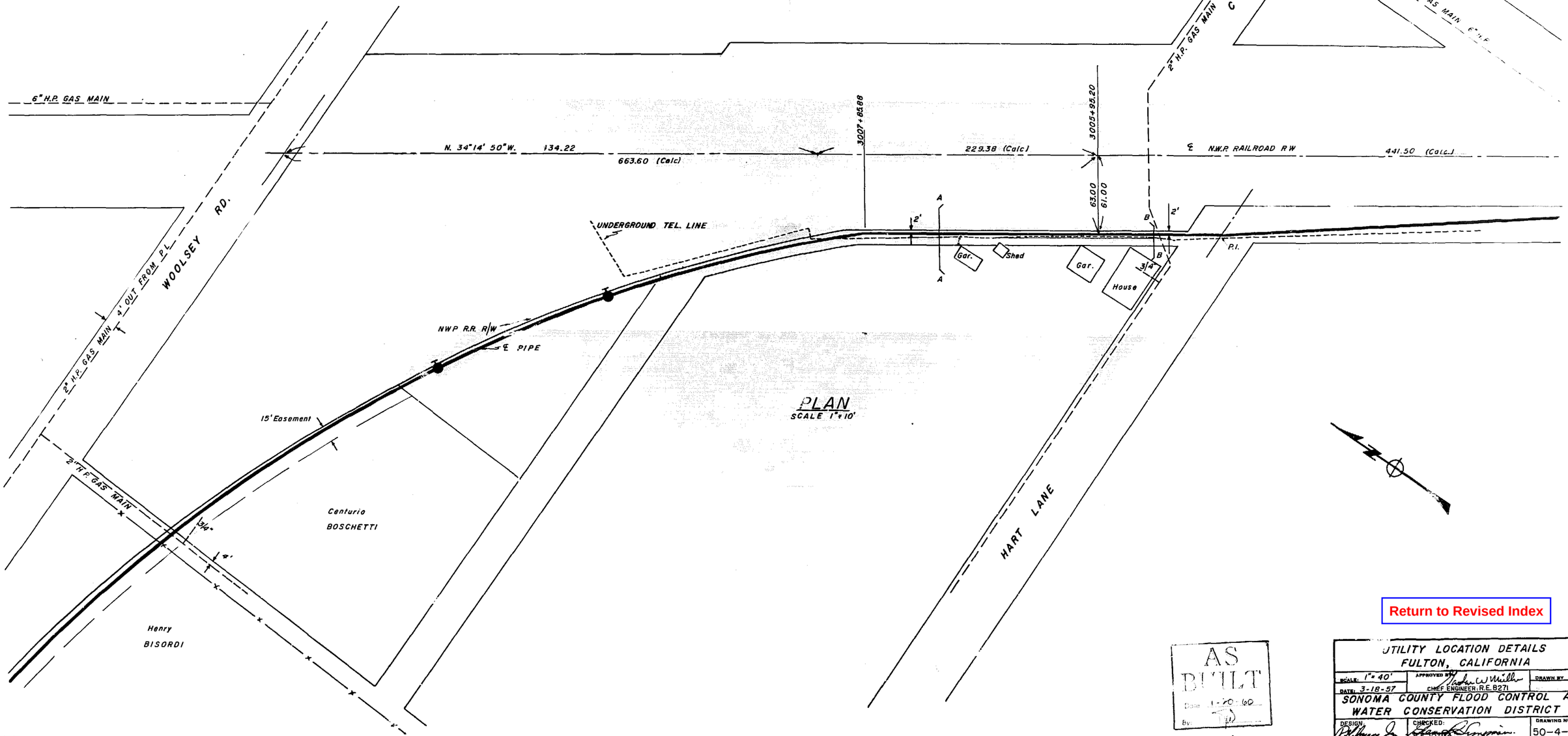
SONOMA COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT

DESIGNED | CHECKED Sam F. Emerson RE 10782 | DRAWING NUMBER 50-4-102.15

NO. ____ STRUCTURE NOTATIONS CHECKED



SECTION AA-BB
SCALE 1"=10'



PLAN
SCALE 1"=10'

AS BUILT
Date 1-20-60
By:

UTILITY LOCATION DETAILS
FULTON, CALIFORNIA

SCALE: 1"=40'	APPROVED BY: John W. Miller, CHIEF ENGINEER-R.E. 8271	DRAWN BY: KW
DATE: 3-18-57		

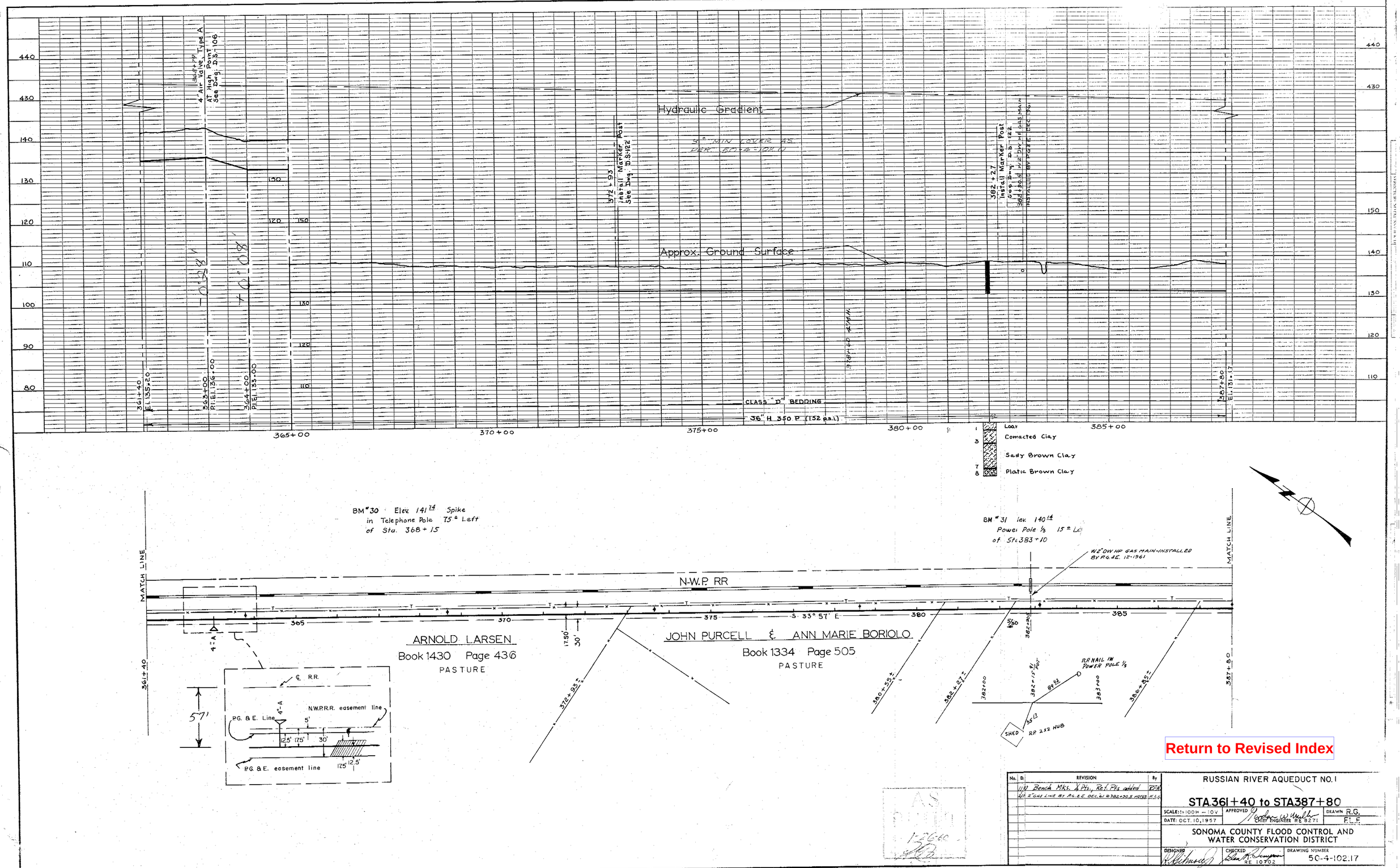
SONOMA COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT

DESIGN:	CHECKED: R.E. 15108	DRAWING NUMBER: 50-4-102.50

Return to Revised Index

22334 PRINTED ON NO. 1000H CLEARPRINT

Return to Revised Index



Return to Revised Index

No.	D.	REVISION	By
1	1/2	Bench Mks. & Pts., Ref. Pts added	R.F.H.
2	1/2	2" GAS LINE BY P.G.&E. DEC. '61 @ 382+90.5 NOTED	K.L.G.

RUSSIAN RIVER AQUEDUCT NO. 1

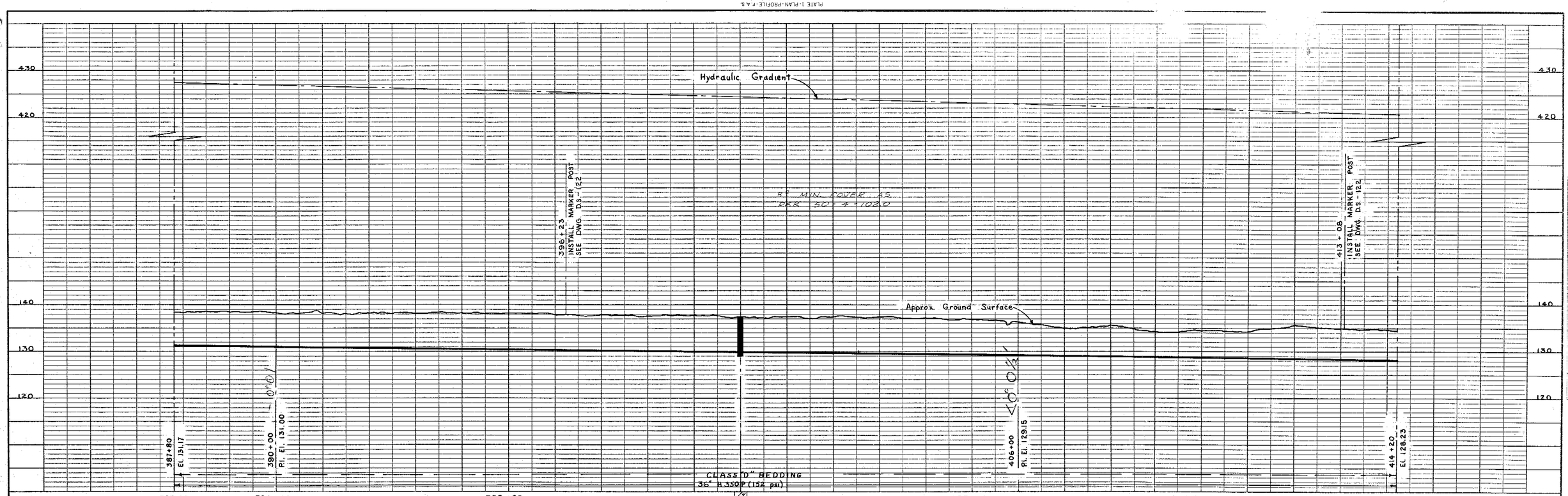
STA. 361+40 to STA. 387+80

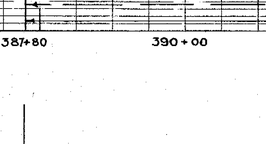
SCALE: 1"=100H — 10V
DATE: OCT. 10, 1957
APPROVED: CHIEF ENGINEER RE 8271
DRAWN R.G. F.L.F.

SONOMA COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT

DESIGNED
CHECKED RE 10702
DRAWING NUMBER 50-4-102.17

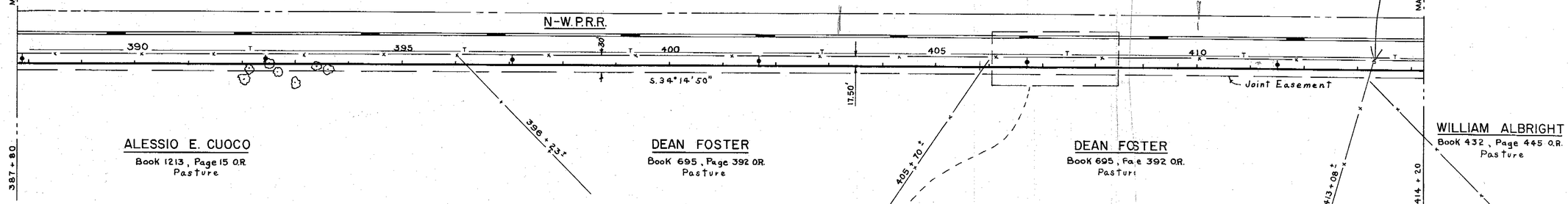
PLATE 1-PLAN-PROFILE-F.A.S.
CLEARPRINT PAPER CO. S.F. CAL.
No. 1005H-1





BM #32 Elev. 139.22
Telephone Pole T5 ℄ Left of Sta. 401+70

BM #33 Elev. 136.19
Monel Nail in West Headwall of Culvert 45° Left of Sta. 405+40



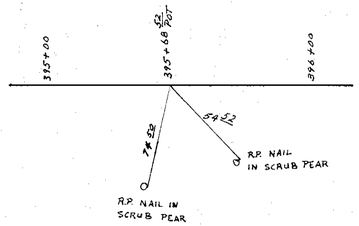
ALESSIO E. CUOCO
Book 1213, Page 15 O.R.
Pasture

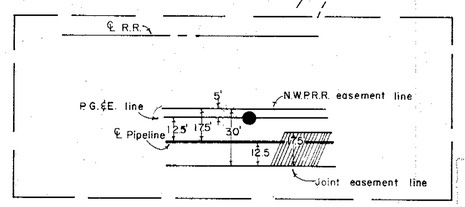
DEAN FOSTER
Book 695, Page 392 O.R.
Pasture

DEAN FOSTER
Book 695, Page 392 O.R.
Pasture

WILLIAM ALBRIGHT
Book 432, Page 445 O.R.
Pasture

H.W. & H.M. CASTOR
Book 773, Page 106 O.R.





Return to Revised Index

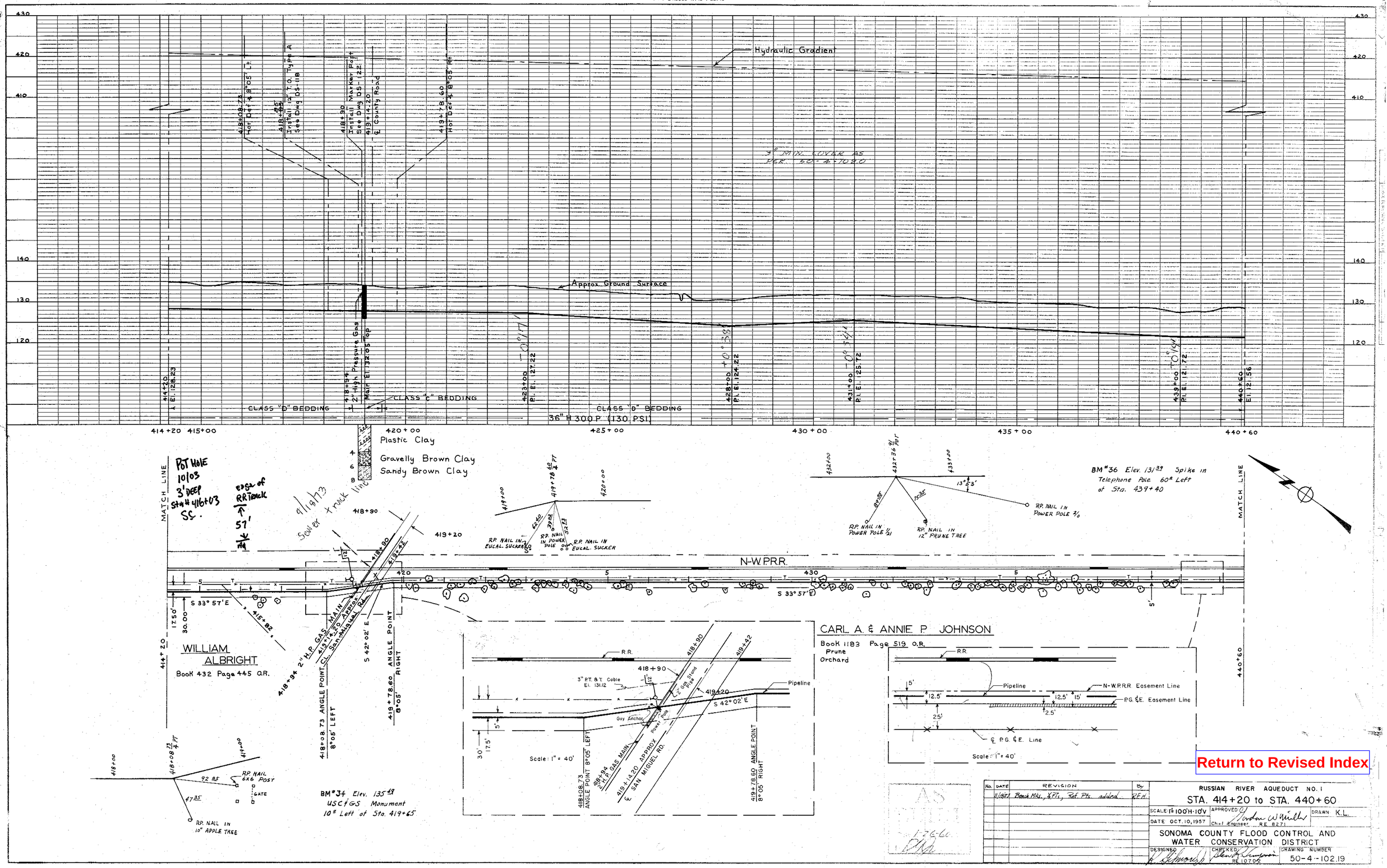
No.	DA	REVISION	By
		Wing Beach Mks, & P.Is, Rel.Pts. added	RFH

RUSSIAN RIVER AQUEDUCT NO. 1.
STA. 387+80 to STA. 414+20

SCALE: 1"= 100'H·10'V | APPROVED: Walter W. Weller, CHIEF ENGINEER RE 8271 | DRAWN: R.G. D.M. J.N.
DATE: OCT. 10, 1957

SONOMA COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT

DESIGNED: R. Ramsell | CHECKED: Leon A. Thompson RE 10702 | DRAWING NUMBER: 50-4-102.18



Return to Revised Index

No.	DATE	REVISION	By
	11/1957	Bench Mks., ⅄ Pts., Ref. Pts. added	R.F.H.

RUSSIAN RIVER AQUEDUCT NO. 1

STA. 414+20 to STA. 440+60

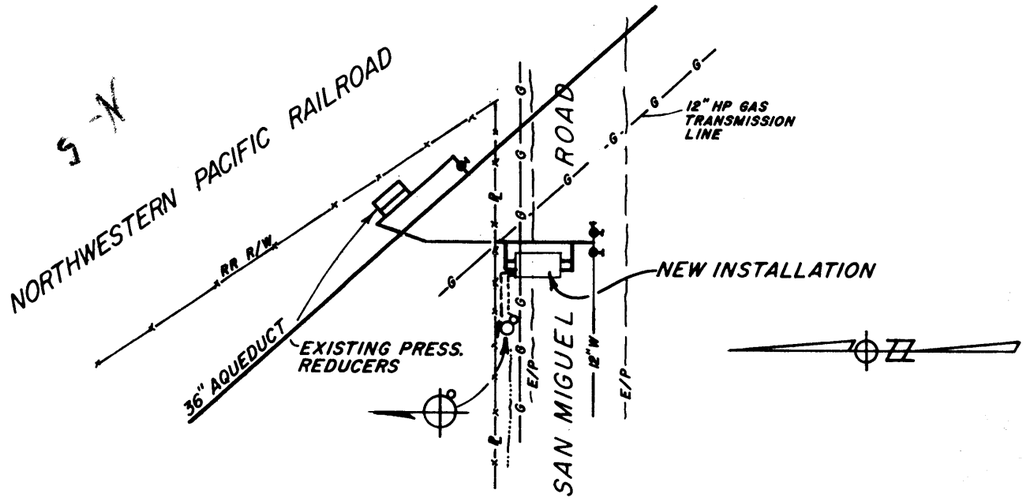
SCALE: 1" = 100'H-10'V | APPROVED: Jordan W. Miller, Chief Engineer, RE 8271 | DRAWN: K.L.

DATE: OCT. 10, 1957

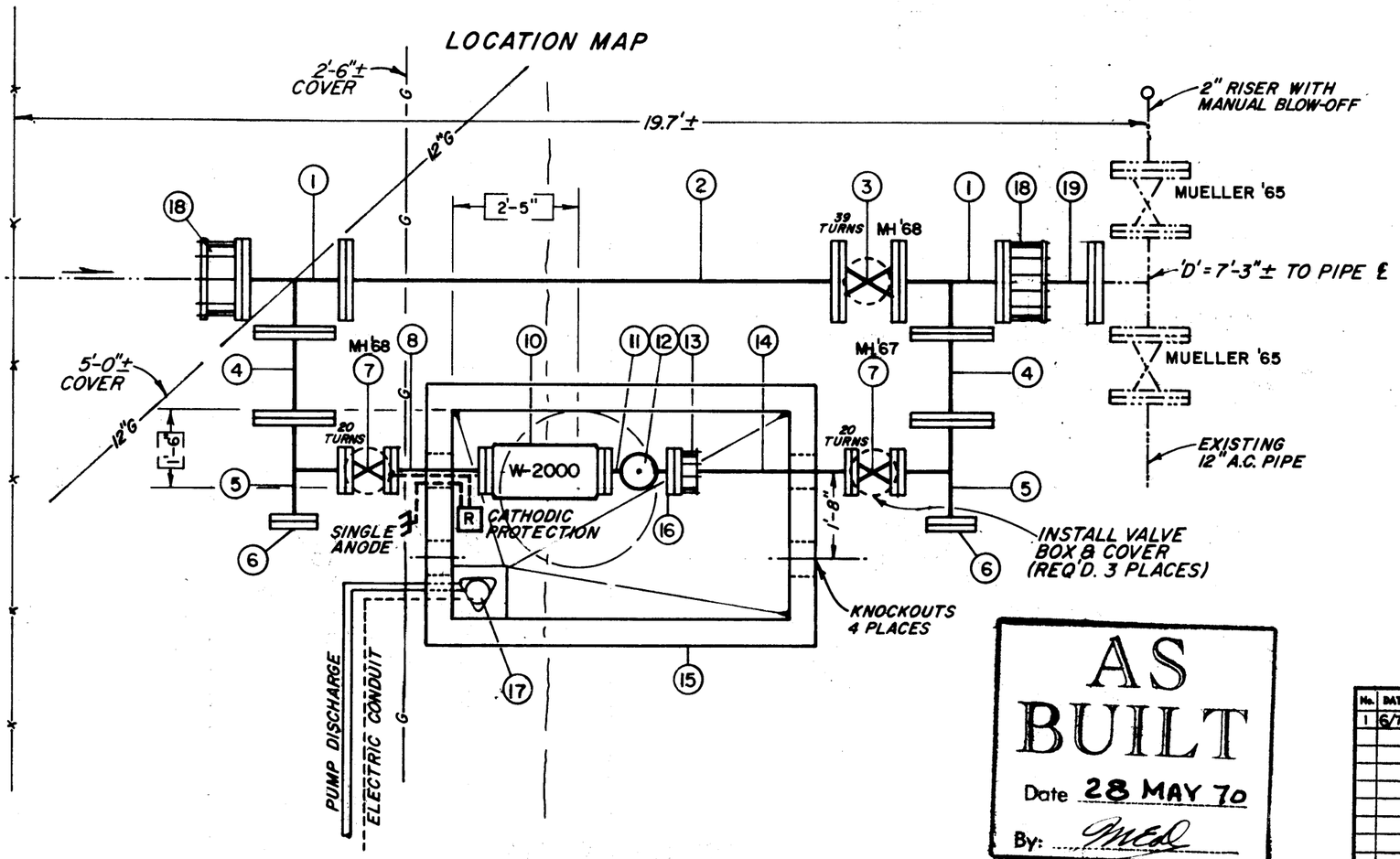
SONOMA COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT

DESIGNED: [signature] | CHECKED: [signature] RE 10702 | DRAWING NUMBER: 50-4-102.19

MICROFILMED



LOCATION MAP



SCHEDULE OF ITEMS (FROM GENERAL STOCK)

1	12"x12"x12" TEE (2 REQ'D)
2	12"x9'-5" PIPE FBE
3	12" GATE VALVE
4	12"x1'-8" PIPE FBE (2 REQ'D)
5	12"x6"x6" TEE (2 REQ'D)
6	6" BLIND FLANGE (2 REQ'D)
7	6" GATE VALVE (2 REQ'D)
8	6"x1'-10" PIPE FBE
9	DELETED
10	6" ROCKWELL METER W-2000 (FURNISHED BY DISTRICT)
11	6"x6"x4" TEE
12	4" BLIND FLANGE
13	6" FLANGE x 6" PLAIN END, FLANGED COUPLING ADAPTOR SMITH-BLAIR 912-6-690
14	6" PIPE, (3'-3") FOE
15	4'-0"x6'-6" PRE-CAST VAULT, BROOKS 5269 SERIES
16	PIPE SUPPORTS (2 REQ'D)
17	SUMP PUMP ASSEMBLY WITH 1-1/4" DISCHARGE PIPE TO ROADSIDE DITCH SEE DWG No. 50-2-102.24
18	12" FLANGE x 12" PLAIN END, FLANGED COUPLING ADAPTOR SMITH-BLAIR 912-12-1320 (2 REQ'D)
19	12"x1'-6" PIPE, FOE (EXISTING)

AS BUILT
Date 28 MAY 70
By: MED

Return to Revised Index

S.R. STA. 418+83

No.	DATE	REVISION	By
1	6/70	UPDATE FOR 'AS BUILT'	KP

WATER METER INSTALLATION
SAN MIGUEL RD. & NWP RR
SANTA ROSA

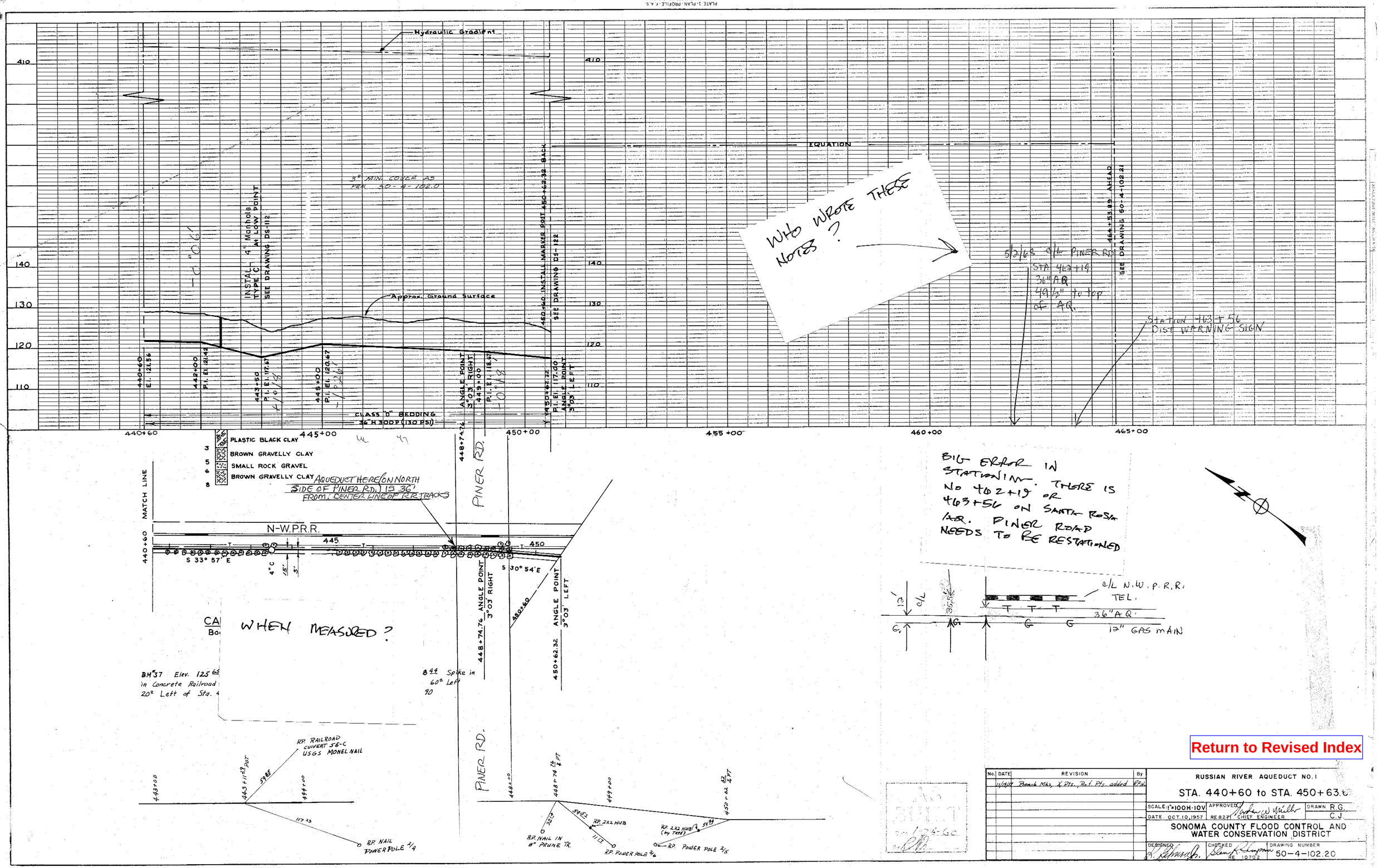
SCALE: 3/8"=1'-0" | APPROVED: Gordon W. Mills, CHIEF ENGINEER | DRAWN: KWD
DATE: JAN. 7 1969 | R.E.E.

SONOMA COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT

DESIGNED: S. Allsop | DRAWING NUMBER: 50-2-102.11

PRINTED ON DIEPO NO. 1025 PAPERCLOTH

MICROFILMED PH11-4D



Return to Revised Index

No.	DATE	REVISION	By
	11/19/57	Bench Mks, X Pts., Ref. Pts. added	RFH

RUSSIAN RIVER AQUEDUCT NO. 1

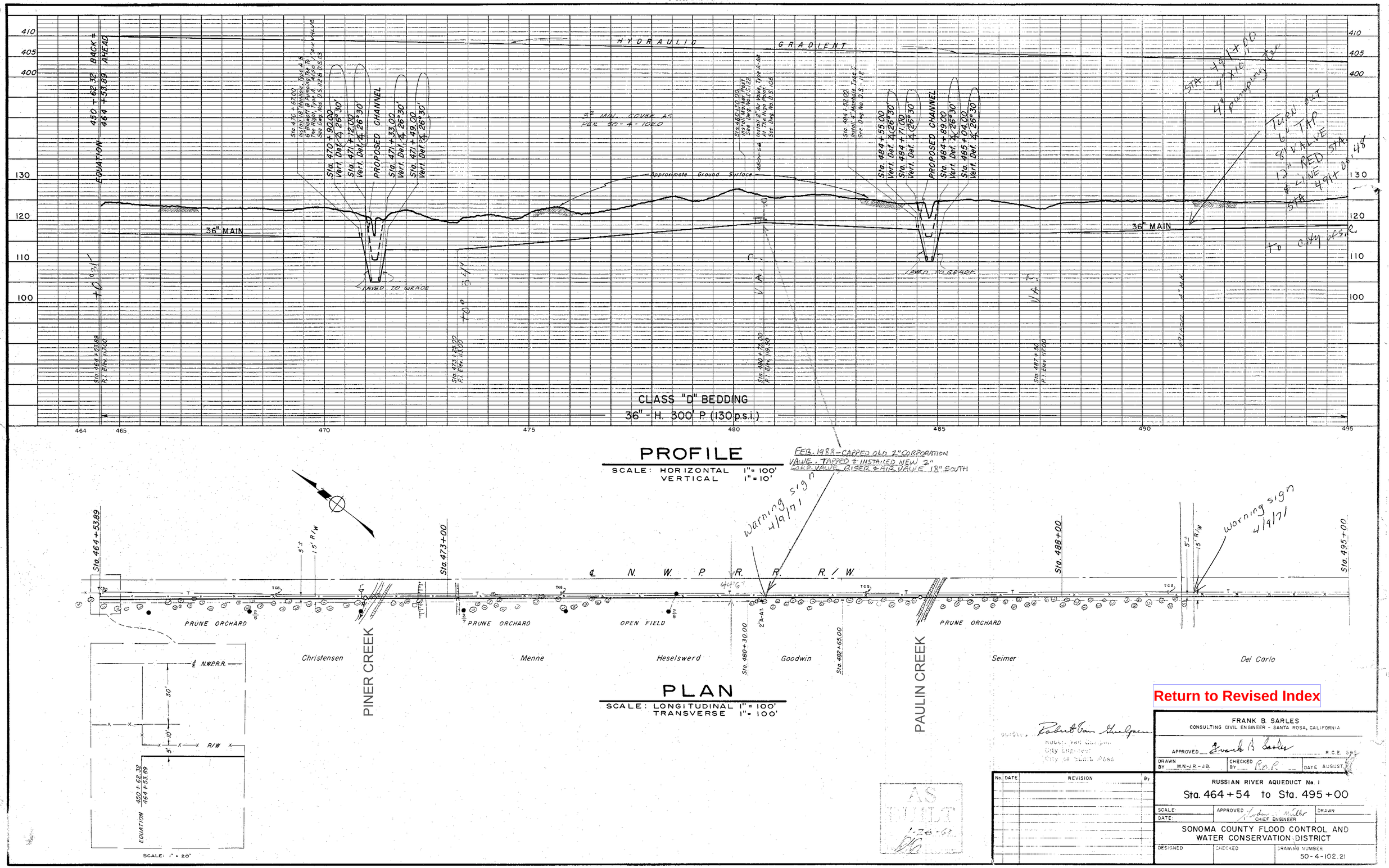
STA. 440+60 to STA. 450+63.6

SCALE: 1"=100H-10V | APPROVED: Jordan W. Miller, CHIEF ENGINEER | DRAWN R.G. C.J.

DATE: OCT. 10, 1957 | RE 8271

SONOMA COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT

DESIGNED: R. Johnson Jr. | CHECKED: Glen R. Simpson, RE 10702 | DRAWING NUMBER 50-4-102.20



Return to Revised Index

Robert Van Gaalpen
Robert Van Gaalpen
City Engineer
City of Santa Rosa

AS BUILT 1-26-62

No.	DATE	REVISION	By

FRANK B. SARLES
CONSULTING CIVIL ENGINEER - SANTA ROSA, CALIFORNIA

APPROVED Frank B. Sarles R.C.E. 5[illegible]

DRAWN BY M.N.-J.R.-J.B. | CHECKED BY R.A.R. | DATE AUGUST [illegible]

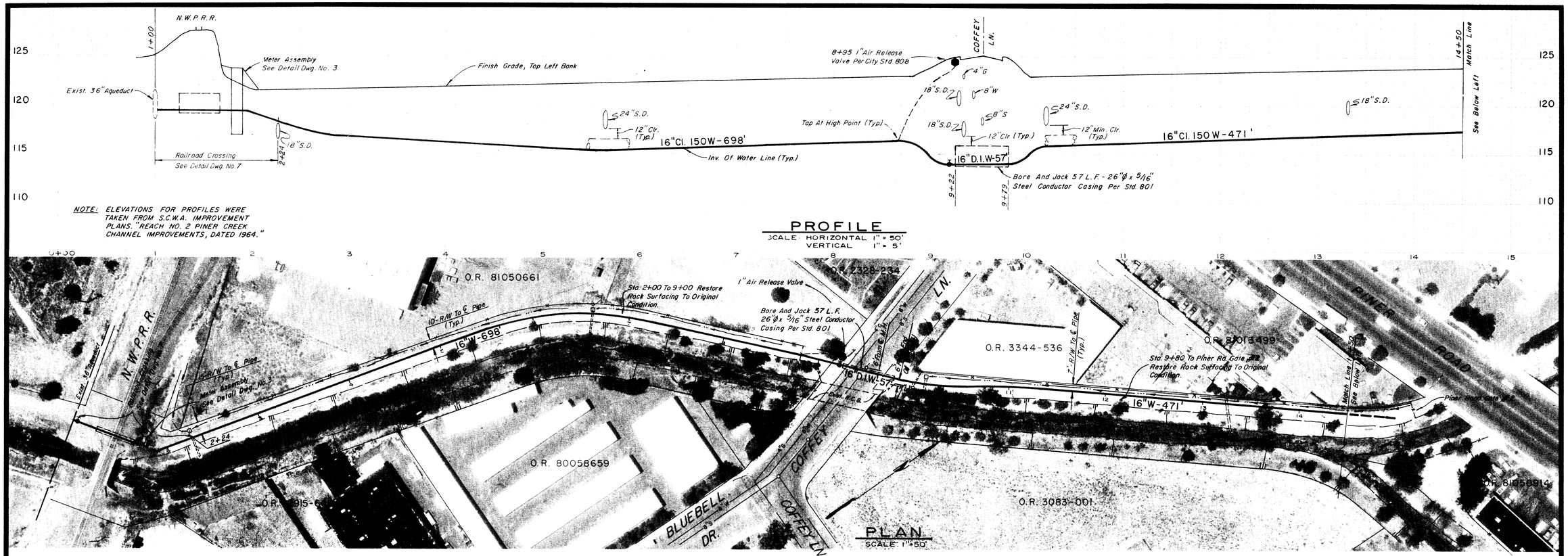
RUSSIAN RIVER AQUEDUCT No. 1

Sta. 464 + 54 to Sta. 495 + 00

SCALE: | APPROVED [illegible] CHIEF ENGINEER | DRAWN
DATE:

SONOMA COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT

DESIGNED | CHECKED | DRAWING NUMBER 50-4-102.21

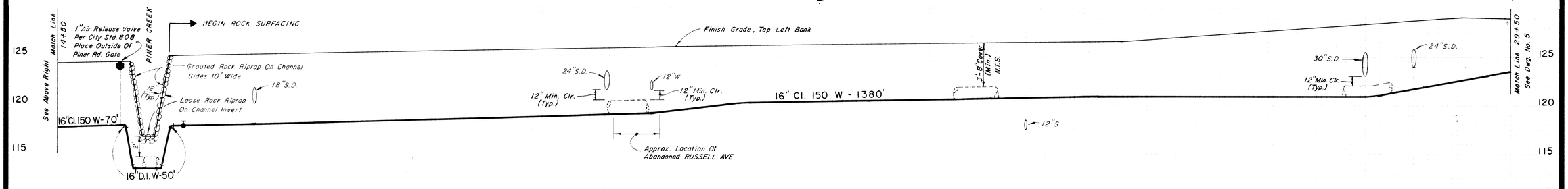


PROFILE

SCALE: HORIZONTAL 1" = 50'
VERTICAL 1" = 5'

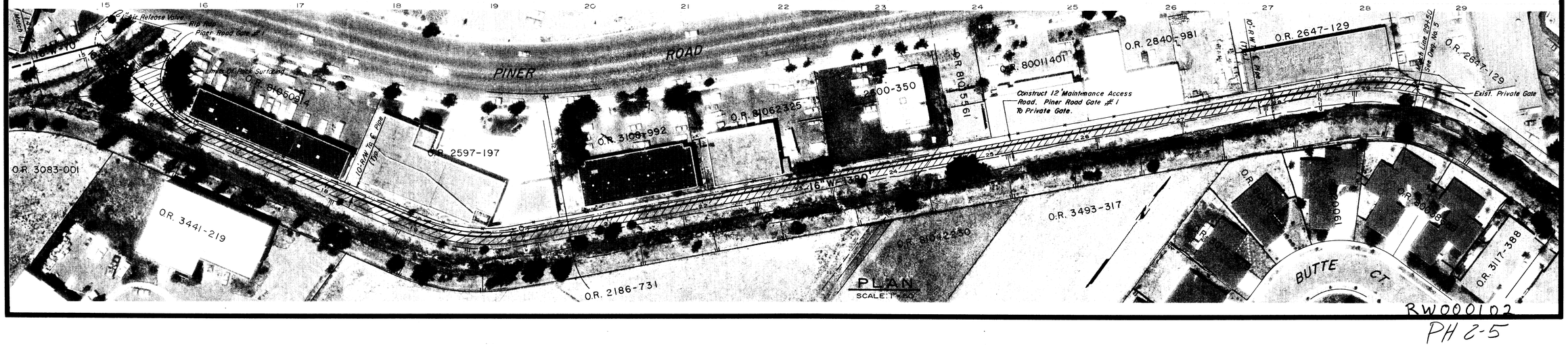
PLAN

SCALE: 1"=50'



PROFILE

SCALE: HORIZONTAL 1" = 50'
VERTICAL 1" = 5'



PLAN

SCALE: 1"=50'

Return to Revised Index

RW000102
PH 2-5

BRELJE & RACE
CARLILE/DAUGHERTY/CARLENZOLI
CIVIL AND SANITARY ENGINEERS / LAND SURVEYORS / PLANNERS
425 SOUTH E STREET • POST OFFICE BOX 1895 • SANTA ROSA, CA 95402 • TEL (707) 542-6451
LEROY E. CARLENZOLI R.C.E. 17913

FOUNTAINGROVE PARKWAY - PHASE II
WATER TRANSMISSION MAIN IMPROVEMENTS
SANTA ROSA, CALIFORNIA

PLAN AND PROFILE
S.C.W.A. AQUEDUCT TO STA. 29+50

APPROVED
CITY ENGINEER
BROYDIN J. RIHA
BY
DATE

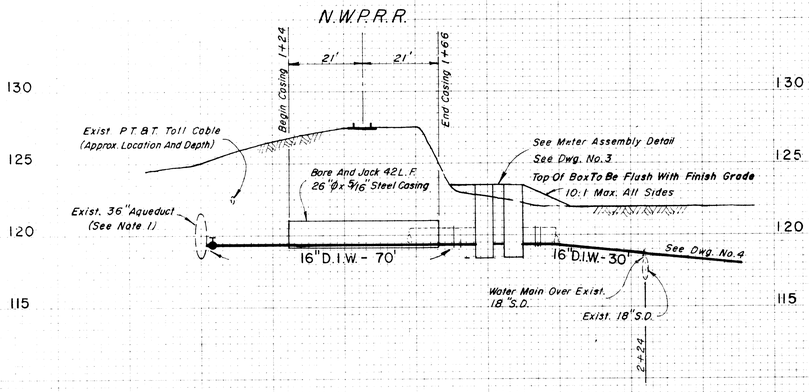
DATE
NOVEMBER, 1983

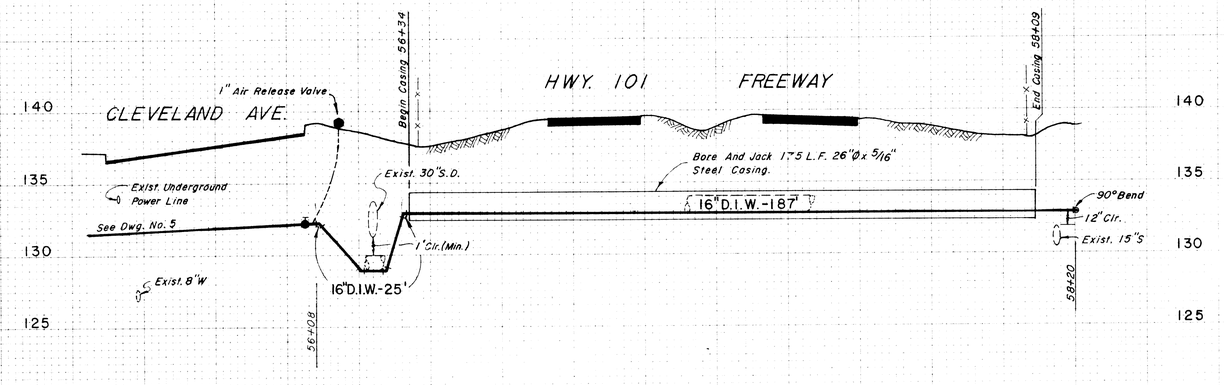
REVISIONS

DRAWN BY M.E.F. | CHECKED

JOB NO. 837.63

DRAWING NUMBER
4 OF 7





1+00 2 56 57 58

PROFILES

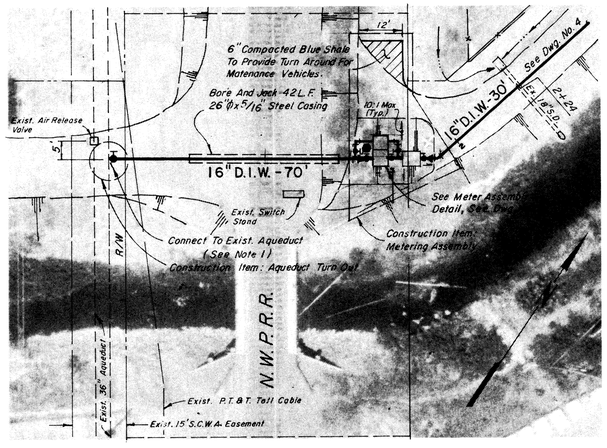
SCALE : HORIZONTAL 1" = 20'
VERTICAL 1" = 5'

NOTE

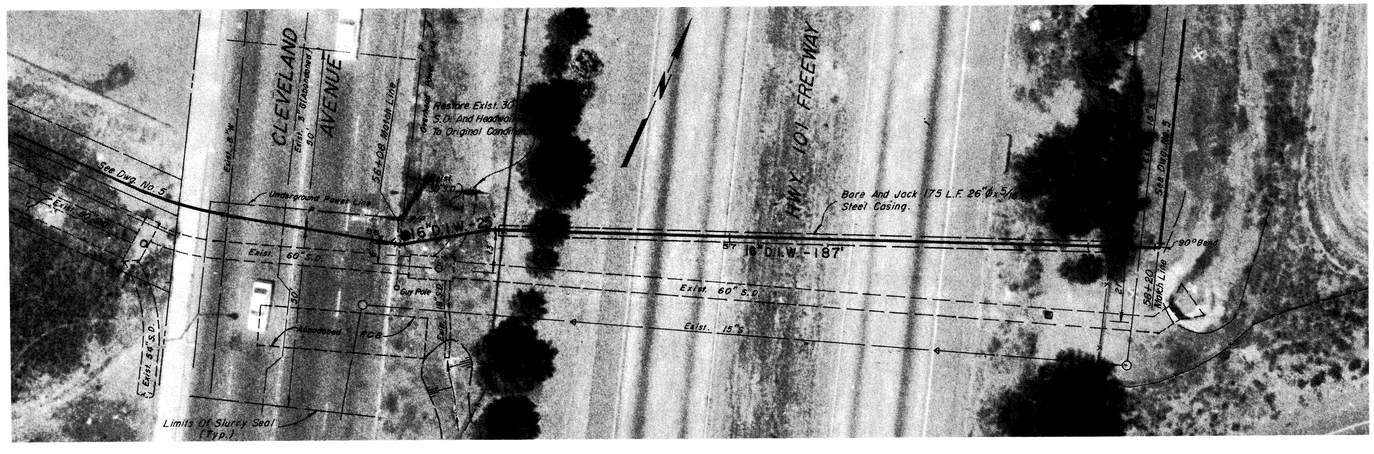
1. The S.C.W.A. Forces Shall Hot Tap The S.C.W.A. Aqueduct. S.C.W.A. Forces Shall Install Tapping Sleeve And Valve.
2. The Contractor Shall Notify N.W.P.R.R. Prior To Work In The Railroad Right-Of-Way. The Contractor Shall Secure And Conform His Operation To A Right-Of-Way Permit From N.W.P.R.R.

NOTES:

1. HWY. 101 Finish Grade Elevations Taken From S.C.W.A. Improvement Plans For Freeway Crossing, Sheet 1-5026/008-102.2 Dated June 15, 1962.
2. Maintain 12" Clearence From The Exist. 15" Sewer. Bore And Jack Level Using Sewer Clearence As Control Elevation.
3. Restore All Drainage Features On The East Side Of The Freeway Crossing Bore And Jack To Their Original Condition.
4. Notify P.G.&E. Before Trenching Near Power Pole On East Side Of Cleveland Ave. So Butt Of Pole Can Be Secured.



RAILROAD CROSSING



FREEWAY CROSSING

PLAN
SCALE : 1" = 20'

Return to Revised Index

PH2-5
RW000105

BRELJE & RACE
CARLILE/DAUGHERTY/CARLENZOLI
CIVIL AND SANITARY ENGINEERS / LAND SURVEYORS / PLANNERS
429 SOUTH E STREET • POST OFFICE BOX 1895 • SANTA ROSA, CA 95402 • TEL (707) 542-6451
LEROY E. CARLENZOLI R.C.E. 17913

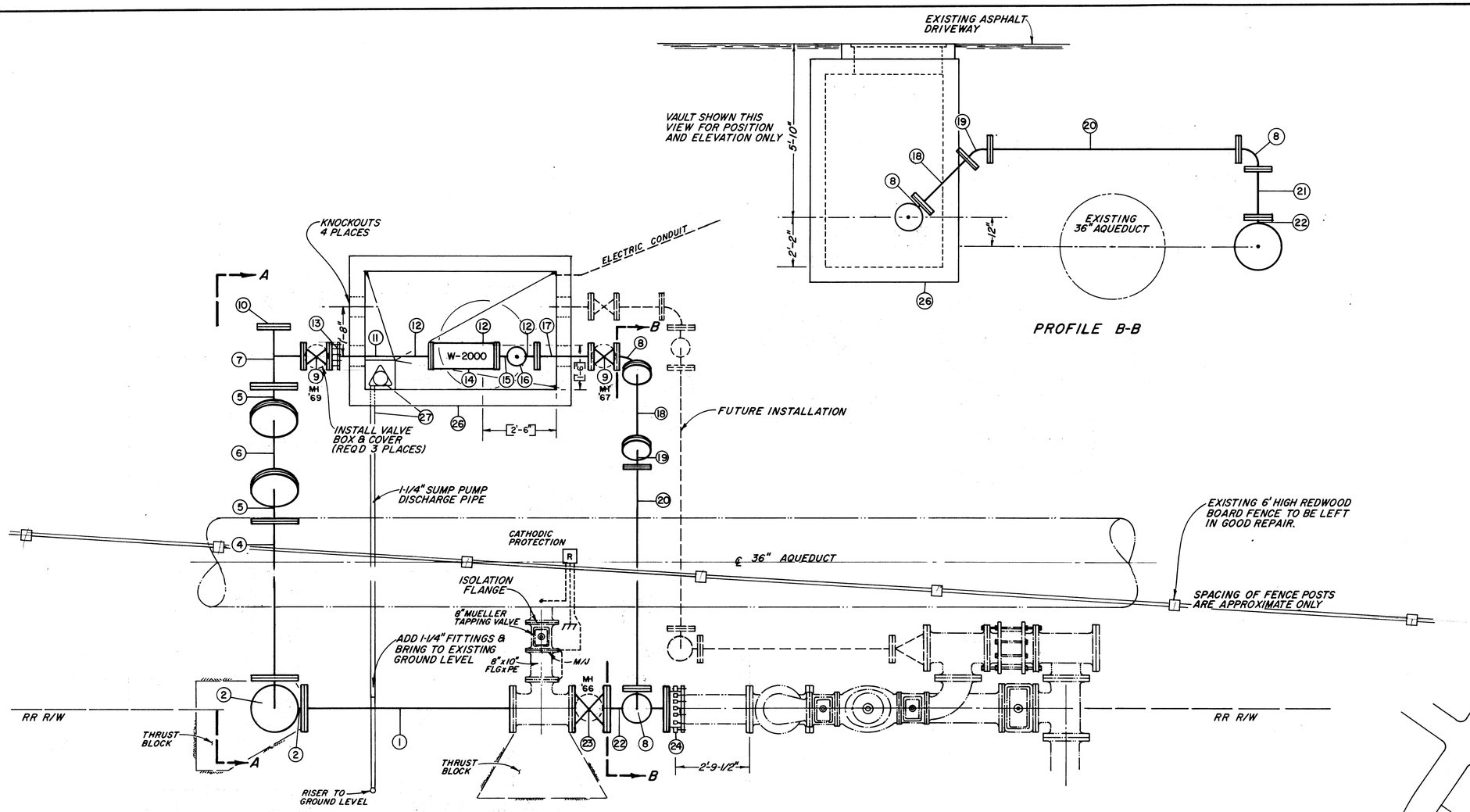
FOUNTAINGROVE PARKWAY - PHASE II
WATER TRANSMISSION MAIN IMPROVEMENTS
SANTA ROSA, CALIFORNIA

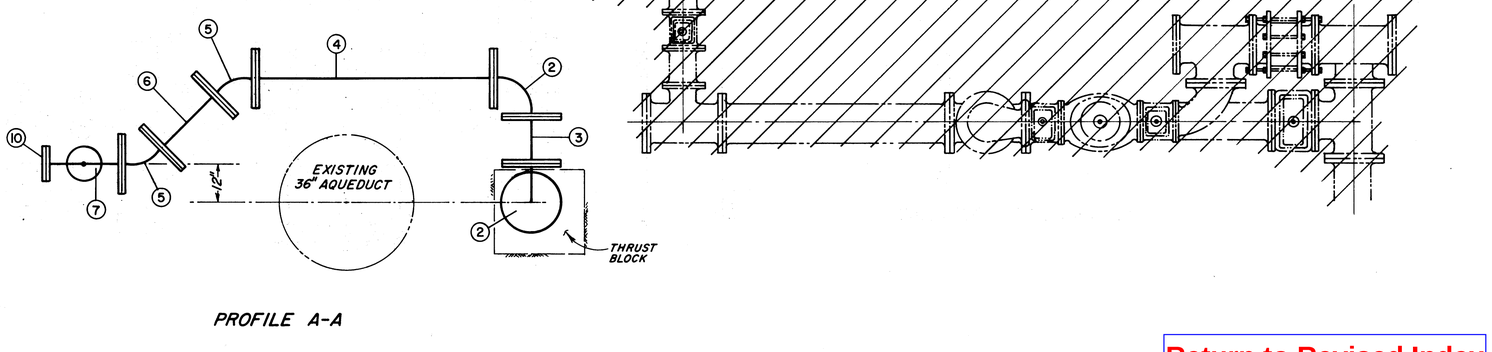
PLAN AND PROFILE
RAILROAD AND FREEWAY CROSSING

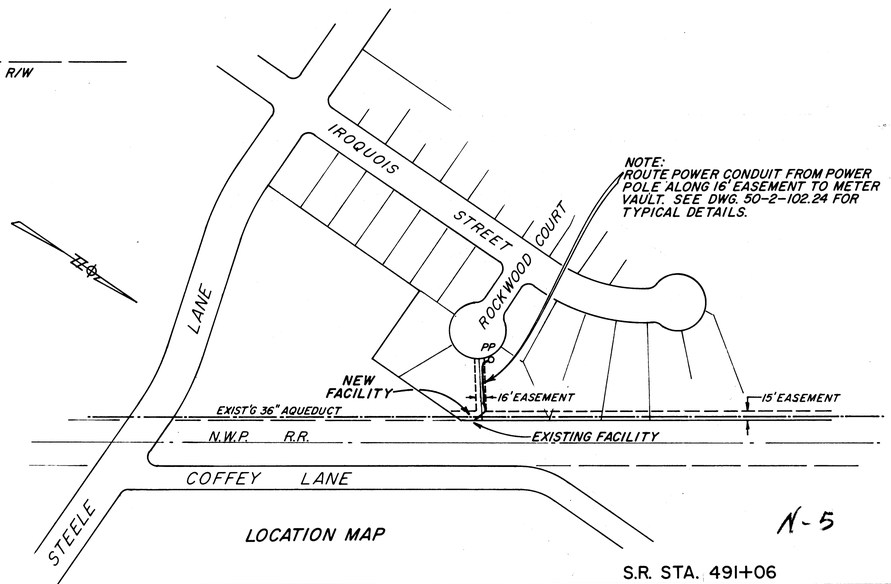
APPROVED
CITY ENGINEER
BY
DATE

DATE
NOVEMBER, 1983
REVISIONS

DRAWN BY M.E.F. CHECKED
JOB NO. 837.63
DRAWING NUMBER 7 of 7







SCHEDULE OF ITEMS

1	12" x 7'-0" PIPE FBE
2	12"x12" 90° ELL (2 REQ'D)
3	12"x1'-3" PIPE FBE
4	12"x 6'-3" ± PIPE FBE
5	12"x12" 45° ELL (2 REQ'D)
6	12"x 2'-0" PIPE FBE
7	12"x6"x6" RED. TEE
8	6" x 6" 90° ELL (2 REQ'D)
9	6" GATE VALVE (2 REQ'D)
10	6" BLIND FLANGE
11	6" PIPE, 3'-1-3/4" FOE
12	PIPE SUPPORTS (3 REQ'D)
13	6" FLANGE x 6" PLAIN END, FLANGED COUPLING ADAPTOR SMITH-BLAIR 912-6-690
14	6" ROCKWELL METER W-2000 (FURNISHED BY DISTRICT)
15	6"x6"x4" TEE
16	4" BLIND FLANGE
17	6"x 1'-10" PIPE FBE
18	6"x 2'-2" PIPE FBE
19	6"x6" 45° ELL
20	6"x 8'-6-1/2" PIPE FBE
21	6"x 1'-7" PIPE FBE
22	12"x12"x6" TEE
23	12" GATE VALVE
24	12" FLANGE x 12" PLAIN ONE END, FLANGED COUPLING ADAPTOR SMITH-BLAIR 912-12-1320
25	DELETED
26	4'-0"x 6'-6" PRE-CAST VAULT, BROOKS 9524
27	SUMP PUMP ASSEMBLY WITH 1-1/4" DISCHARGE PIPE TO OPEN FIELD SEE DWG. No. 50-2-102.24

AS BUILT
Date 28 May 70
By: Med

Return to Revised Index

S.R. STA. 491+06

No.	DATE	REVISION	By
1	6/70	UPDATE FOR 'AS BUILTS'	kwp

WATER METER INSTALLATION
COFFEY LANE NORTH OF STEELE LANE
SANTA ROSA

SCALE: 1/2" = 1'-0"
DATE: AUG. 23, 1968
APPROVED: Gordon W. Mills, CHIEF ENGINEER
DRAWN SKMc
CHECKED R.P.P.

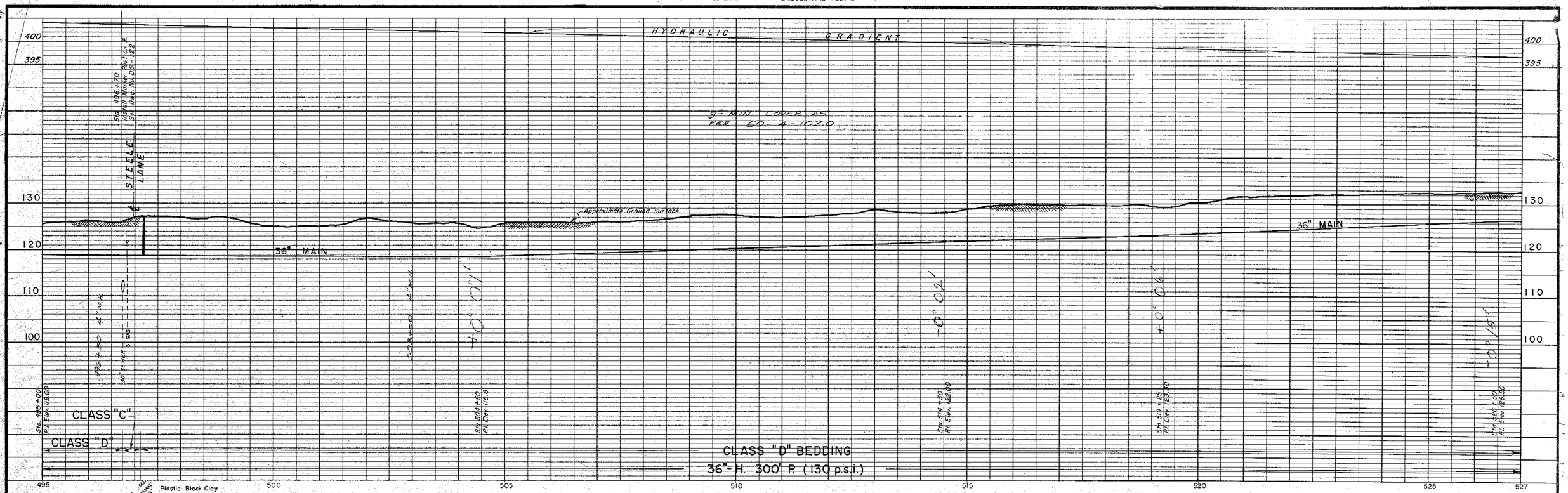
SONOMA COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT

DESIGNED
SUBMITTED
DRAWING NUMBER 50-2-102.12

MICROFILMED

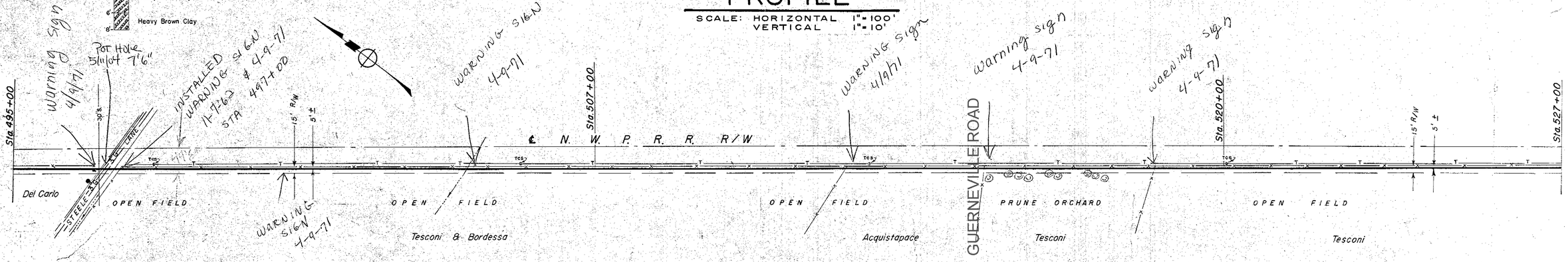
PRINTED ON DIEPO NO. 1025 PAPERCLOTH

PLATE 1 - PLAN-PROFILE C. P. & R. R. STANDARD
THE KNUDSEN PORT CO., CHICAGO



PROFILE

SCALE: HORIZONTAL 1"=100'
VERTICAL 1"=10'



PLAN

SCALE: LONGITUDINAL 1"=100'
TRANSVERSE 1"=100'

B.M. Elev. 127.37. Spike in No. face of power pole at S.W. cor. of Steele Lane & N.W.P.R.R.

Approved Robert Van Guelpen
Robert Van Guelpen
City Engineer
City of Santa Rosa

AS BUILT
Date 1-26-60
By:

No.	DATE	REVISION	By
1	12/57	Bench Mks, X Pts, Ref Pts added	VT
2	2/58	3" Gas Main, Sta 496+83.50 Elev. 122.97	GS

FRANK B. SARLES
CONSULTING CIVIL ENGINEER - SANTA ROSA, CALIFORNIA

APPROVED Frank B Sarles R.C.E. 5961

DRAWN BY M.N.-J.R.-J.B. CHECKED BY DATE AUGUST, 1957

RUSSIAN RIVER AQUEDUCT No. 1

Sta. 495+00 to Sta. 527+00

SCALE: APPROVED Gordon W. Wilkie CHIEF ENGINEER DRAWN

DATE:

SONOMA COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT

DESIGNED CHECKED DRAWING NUMBER 50-4-102.22

Return to Revised Index

PLATE 1 - PLAN-PROFILE C. P. R. R. R. STANDARD
THE FREDERICK POST CO., CHICAGO

HYDRAULIC GRADIENT

3° MIN. COVER AS PER 50-4-102.10

Approximate Ground Surface

36" MAIN

Sta 527+00 — Sta 530+50.00 — See Dwg No D.S. 50-4-102.11 — Sta 529+96.00 — See Dwg No D.S. 50-4-102.11 — Sta 529+92.00 JENNINGS AVENUE — Sta 530+34.00 Install 12" O.I. Type B See Dwg No D.S. 118

Sta 531+00 Pt. Elev. 126.50 — +0.04' — To Clear Stream

CLASS "C" BEDDING

CLASS "D" BEDDING

Sta 541+00 Pt. Elev. 122.00 — +0.02' — To Clear Stream

Sta 544+00 Pt. Elev. 123.50 — +0.04' — 24" SEWER

Install 4' Manhole Type C At Low Point See Dwg No. D.S. 112

CLASS "D" BEDDING
36"-H. 300' P. (130 p.s.i.)

Sta 549+23.00 — -0.16'

Sta 551+50 Pt. Elev. 131.50

Sta 552+00 Pt. Elev. 132.00 — Install 12" Hope Pipe

Sta 553+00 Pt. Elev. 132.00 — Install 12" Hope Pipe

Sta 554+00 Pt. Elev. 132.00 — Install 12" Hope Pipe

Sta 555+00 Pt. Elev. 132.12 — Install 12" Hope Pipe

Sta 555+42.40

Sta 556+02.40

Install Concrete Anchor See Dwg No. D.S. 109

Sta 555+16.88 Hor. Def. ∠ 82°27'39" Lt.

Sta 556+74.58 Hor. Def. ∠ 28°58'15" Rt.

← For Details Of Railroad Crossing See Dwg No 50-4-102.41

Class "D" Bedding From Sta. 556+02.40 To Sta. 556+74.58

395 / 390 / 140 / 130 / 120 / 110

527 530 535 540 545 550 555 556

PROFILE

SCALE: HORIZONTAL 1"=100'
VERTICAL 1"=10

STA 539+11
AQ 54" DEEP

Warning Sign 4-9-71

Sta 527+00 — 5'± — Hill Grade 10 Pct. — JENNINGS AVENUE — Sta 530+00 — Sta 536+00 — ℄ N. W. P. R. R. R/W — Sta 552+00

Tesconi — OPEN FIELD — Tesconi — OPEN FIELD — Tesconi — OPEN FIELD — CORRAL — Knudtsen

T.C.S. — 36' — 40'

24" V.C.P. Sewer M.H. — identical

SCALE: 1"=20'

Warning Sign 4-9-71

Sta. 556+74.58 Hor. Def. ∠ 28°58'15"

Sta. 555+16.88 See Dwg. No. D.S. 50-4-102.51

Sta 555+16.88 Hor. Def. ∠ 82°27'39"

STA 549+03 AQ 57" deep

Sta 549+23.00

PLAN

SCALE: LONGITUDINAL 1"=100'
TRANSVERSE 1"=100'

JENNINGS AVENUE — Sta 530+34.00 — Sta 529+92.00 JENNINGS AVENUE — T.C.S. — 36' — 40'

SCALE: 1"=20'

BARN — Pig Pen — Conc. Flume 9" deep 1' wide — Conc. Slab

SCALE: 1"=20'

℄ Mainline Rails — 66' — R.P. Nail & Shiner — 52.66 — 45.50'

SCALE: 1"=20'

AS BUILT Date 1-26-60 By

Return to Revised Index

Approved Robert Van Kuelgen
Robert Van Kuelgen
City Engineer
City of Santa Rosa

No.	DATE	REVISION	By

FRANK B. SARLES
CONSULTING CIVIL ENGINEER - SANTA ROSA, CALIFORNIA

APPROVED Frank B Sarles R.C.E. 5951

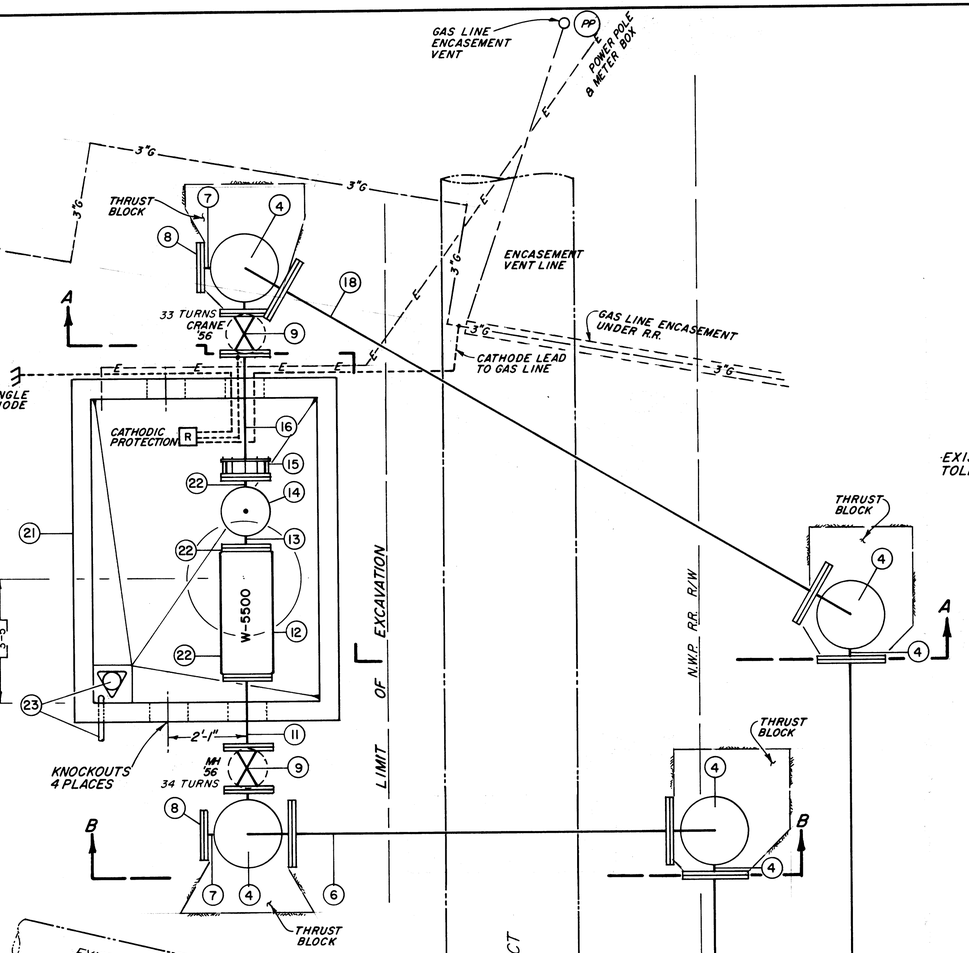
DRAWN BY M.N.-J.R.-J.B. | CHECKED BY | DATE AUGUST, 1959

RUSSIAN RIVER AQUEDUCT No. 1
Sta. 527+00 to Sta. 556+75

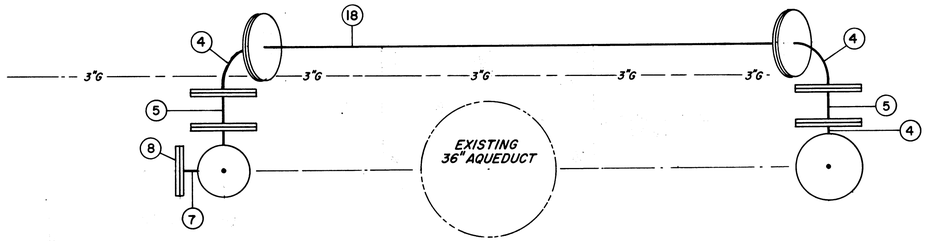
SCALE: | DATE: | APPROVED Gordon W Miller CHIEF ENGINEER | DRAWN

SONOMA COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT

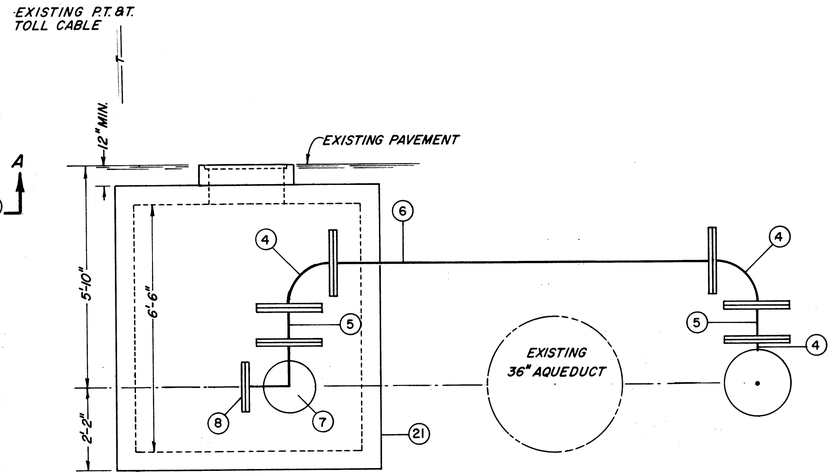
DESIGNED | CHECKED | DRAWING NUMBER 50-4-102.23



PLAN

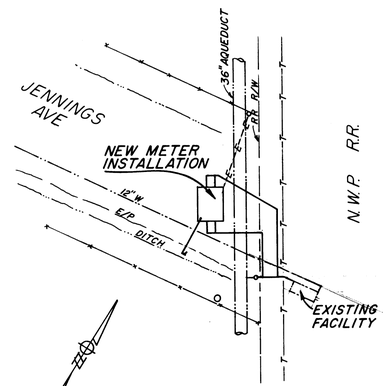


PROFILE A-A



PROFILE B-B

(1)	14"x14"x14" TEE (2 PLACES)
(2)	14" GATE VALVE
(3)	14"x9'-5-1/8" PIPE FBE
(4)	14"x14" ELL (6 REQ'D)
(5)	14"x11" PIPE FBE (4 REQ'D)
(6)	14"x10'-0-1/8" PIPE FBE
(7)	10"x10"x14" SIDE OUTLET ELL (2 REQ'D)
(8)	10" BLIND FLANGE (2 REQ'D)
(9)	10" GATE VALVE (2 REQ'D)
(10)	DELETED
(11)	10"x1'-10" PIPE FBE
(12)	10" ROCKWELL METER W-5500 (FURNISHED BY DISTRICT)
(13)	10"x10"x6" TEE
(14)	6" BLIND FLANGE
(15)	10" FLANGE x 10" PLAIN END, FLANGED COUPLING ADAPTOR SMITH-BLAIR 912-10-1110
(16)	10" PIPE, LENGTH TO SUIT (3'-3"±) FOE
(17)	DELETED
(18)	14"x16'-0" PIPE FBE
(19)	14"x15'-0" PIPE FBE
(20)	DELETED
(21)	6'-0" x 8'-0" PRE-CAST VAULT, BROOKS 850
(22)	PIPE SUPPORTS (3 REQ'D)
(23)	SUMP PUMP ASSEMBLY WITH 1-1/4" DISCHARGE PIPE TO ROADSIDE DITCH SEE DWG. No 50-2-102.24
(24)	14" FLANGE x 14" PLAIN END, FLANGED COUPLING ADAPTOR SMITH-BLAIR No. 913-14-1400



LOCATION MAP

N-5

Return to Revised Index

AS BUILT
Date 28 May 70
By: MEDL

No.	DATE	REVISION	By
1	6/70	UPDATED FOR 'AS BUILTS'	kwp

S R STA. 530+34

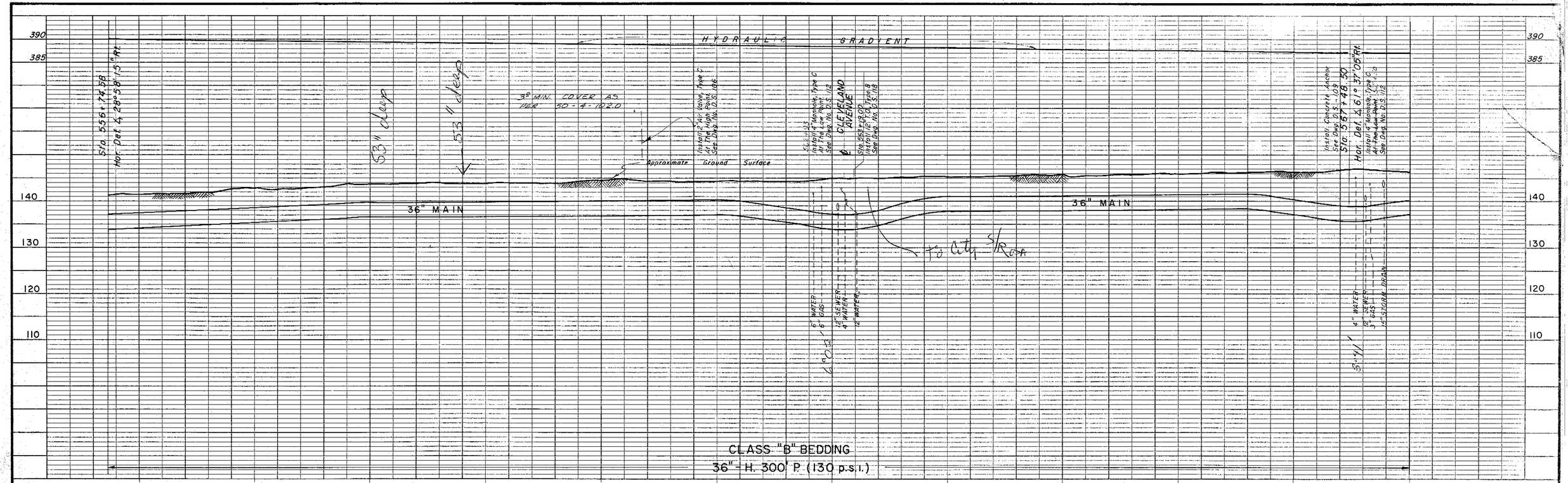
WATER METER INSTALLATION
JENNINGS AVE. & NWP RR
SANTA ROSA

SCALE: 1/2"=1'-0" | APPROVED CHIEF ENGINEER | DRAWN kwp
DATE: DEC. 17, 1968 | CHECKED

SONOMA COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT

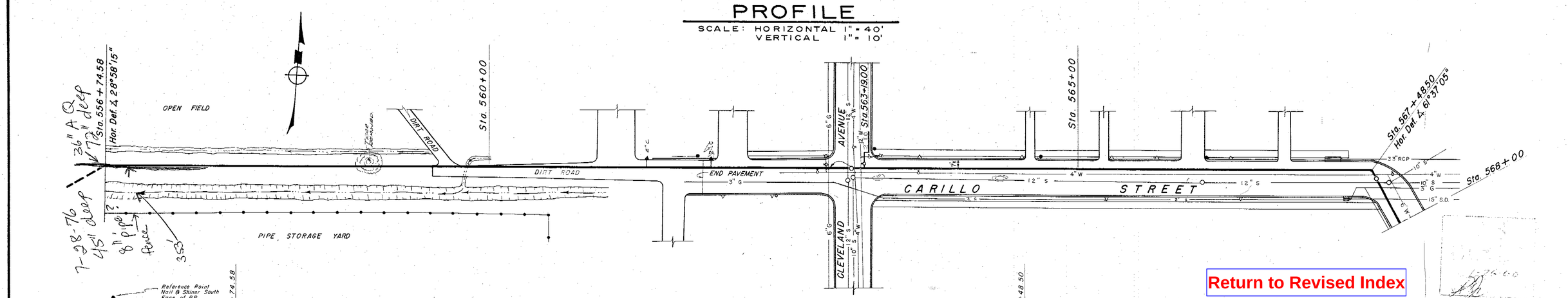
DESIGNED | SUBMITTED | DRAWING NUMBER 50-2-102.13

PRINTED ON DIEPO NO. 1028 PAPERCLOTH
MICROFILMED



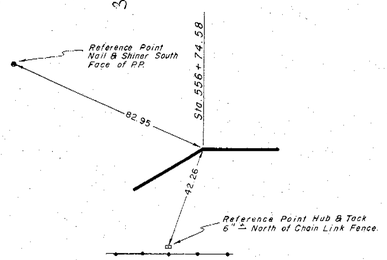
PROFILE

SCALE: HORIZONTAL 1" = 40'
VERTICAL 1" = 10'

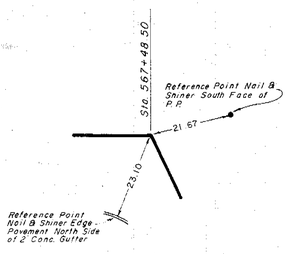


PLAN

SCALE: LONGITUDINAL 1" = 40'
TRANSVERSE 1" = 40'



ANGLE POINT FIELD LOCATION
NO SCALE



ANGLE POINT FIELD LOCATION
NO SCALE

Return to Revised Index

Robert Van Guelpen
Robert V. P. Guelpen
City Engineer
City of Santa Rosa

No.	DATE	REVISION	By

FRANK B. SARLES
CONSULTING CIVIL ENGINEER – SANTA ROSA, CALIFORNIA

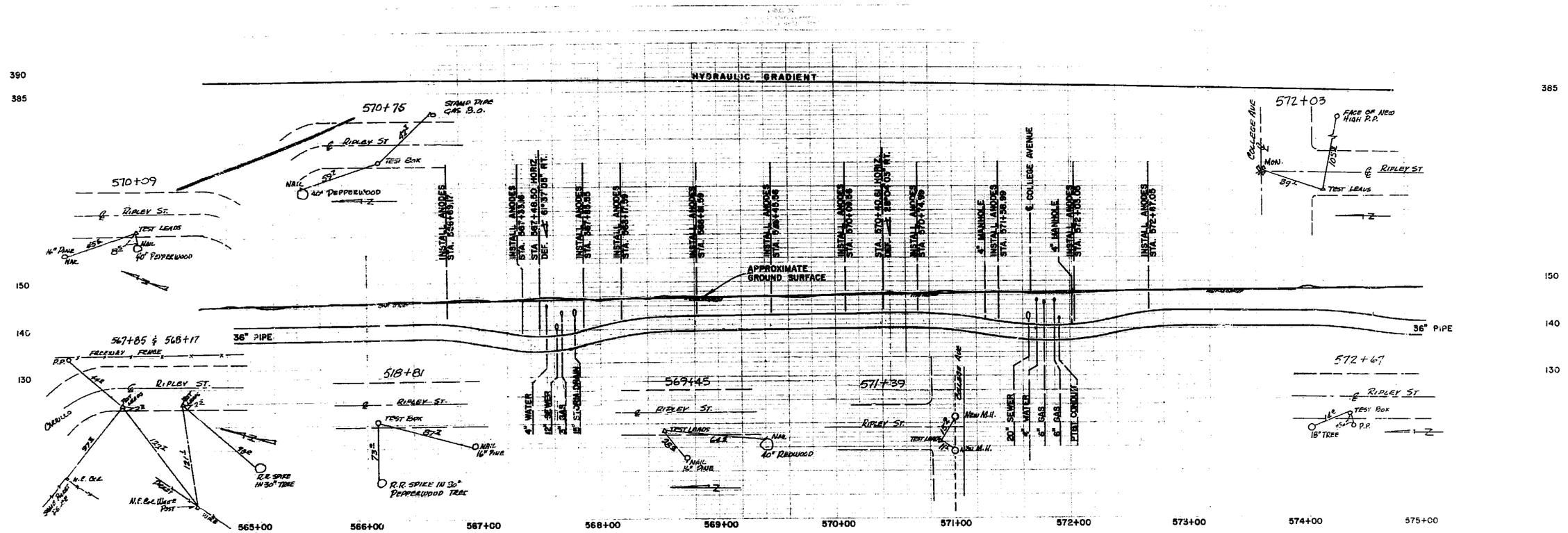
APPROVED Frank B. Sarles R.C.E.

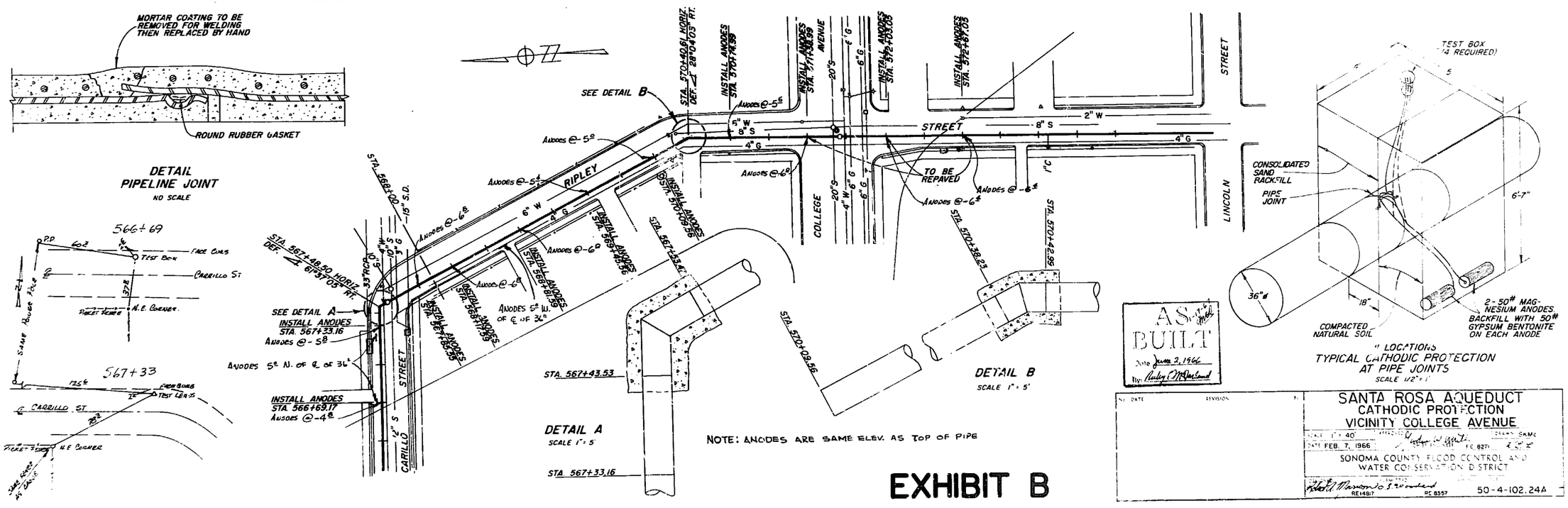
DRAWN BY M.N.-J.R.-J.B. | CHECKED BY [illegible] | DATE AUGUST

RUSSIAN RIVER AQUEDUCT No. 1
Sta. 556+75 to Sta. 568+00

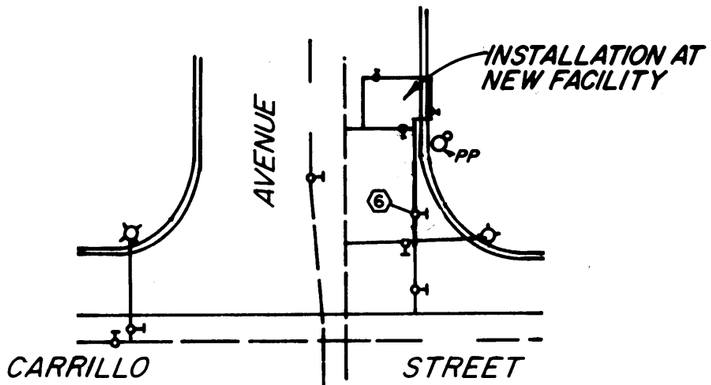
SCALE: | APPROVED [illegible] CHIEF ENGINEER | DRAWN
DATE

DESIGNED | CHECKED | DRAWING NUMBER 50-4-102.24

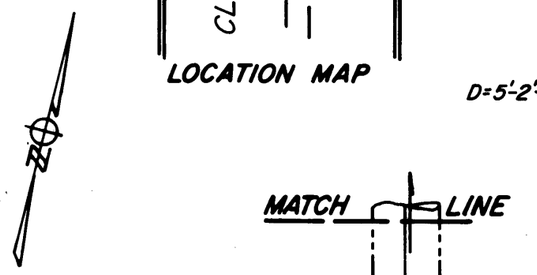


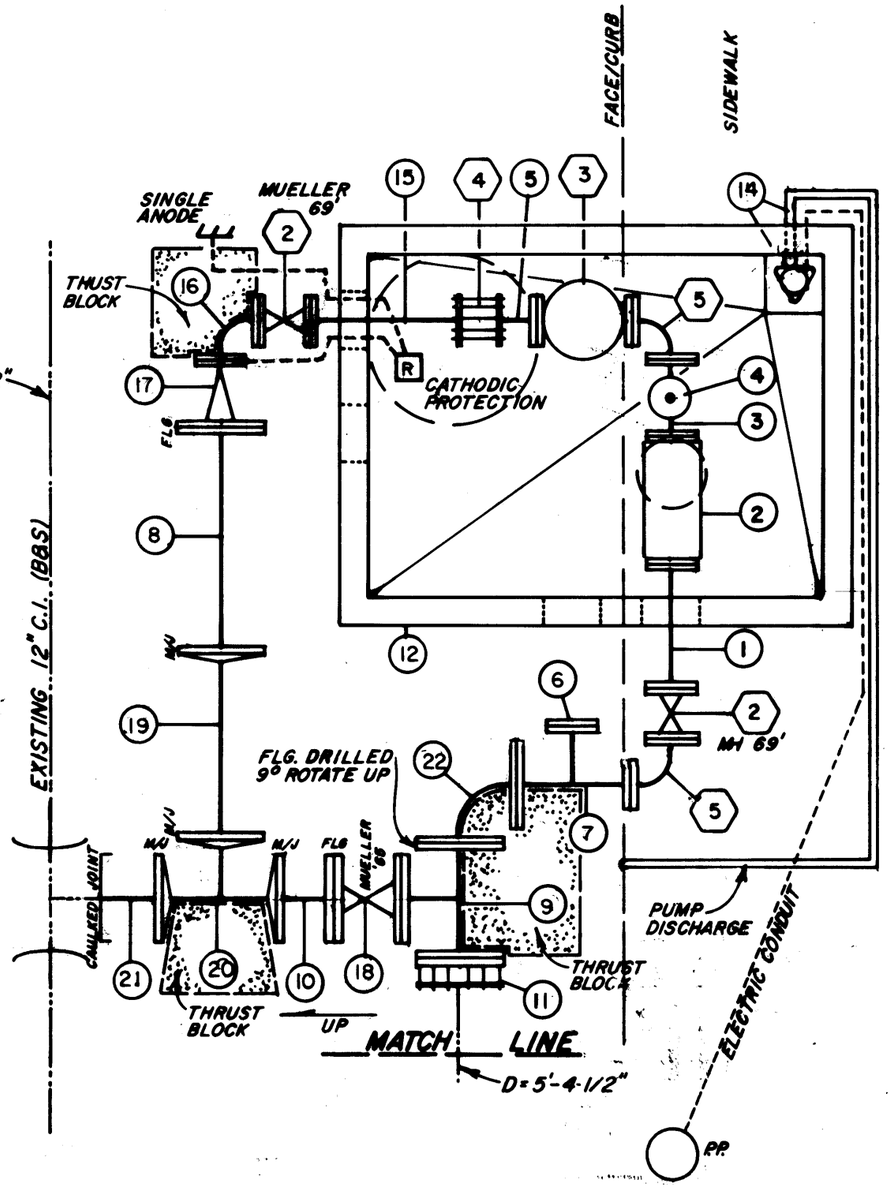


Return to Revised Index



LOCATION MAP





20	12"x12"x12" TEE M/J
21	12" x 1'-0" PIPE PE x PE
22	12"x12" ELL FLGD

SCHEDULE OF ITEMS

1	6"x 2'-2" PIPE FBE
2	6" ROCKWELL METER W-2000 (FURNISHED BY DISTRICT)
3	6"x 6"x 4" TEE FLGD
4	4" BLIND FLANGE
5	6" PIPE, LENGTH TO SUIT (1'-0"±) FOE
6	6" BLIND FLG. (3 REQ'D)
7	12" x 6" x 6" TEE FLGD.
8	12" x 4'-7-5/8" PIPE FOE
9	12"x12"x12" TEE FLGD.
10	12"x 2'-8-1/2" PIPE F.O.E.
11	12" FLANGE x 12" PLAIN END, FLANGED COUPLING ADAPTOR SMITH-BLAIR No. 912-12-1320
12	6'-0"x 8'-0" PRE-CAST VAULT, BROOKS 850 SERIES
13	PIPE SUPPORTS (3 REQ'D)
14	SUMP PUMP ASSEMBLY WITH 1-1/4" DISCHARGE PIPE TO CURB SEE DWG. No. 50-2-102.24
15	6" PIPE, LENGTH TO SUIT (3'-0"±) FOE
16	6"x 6" 90° ELL FLGD
17	12"x 6" REDUCER FLGD
18	12" GATE VALVE
19	12" PIPE, LENGTH TO SUIT (3'-6"±) M/J x PE

SCHEDULE OF ITEMS

2	6" GATE VALVE (2 PLACES)
3	6" PRESSURE REDUCER, CLAY-VAL
4	6" FLEXIBLE COUPLING
5	6" x 6" ELL (2 PLACES)
6	12" GATE VALVE

S.R. STA. 563+19

N-5

AS BUILT

Date 28 MAY 70

By:

No.	DATE	REVISION	BY
1	5/70	UPDATE FOR 'AS BUILTS'	KP

WATER METER INSTALLATION CARRILLO ST. & CLEVELAND AVE. SANTA ROSA

SCALE: 3/8"=1'-0" APPROVED Gordon W. Mull CHIEF ENGINEER DRAWN K.W.B. K.P.P.

DATE: JUNE 15, 69

SONOMA COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT

DRAWING NUMBER 50-2-102.14A

REPLACES DWG. No. 50-2-102.14

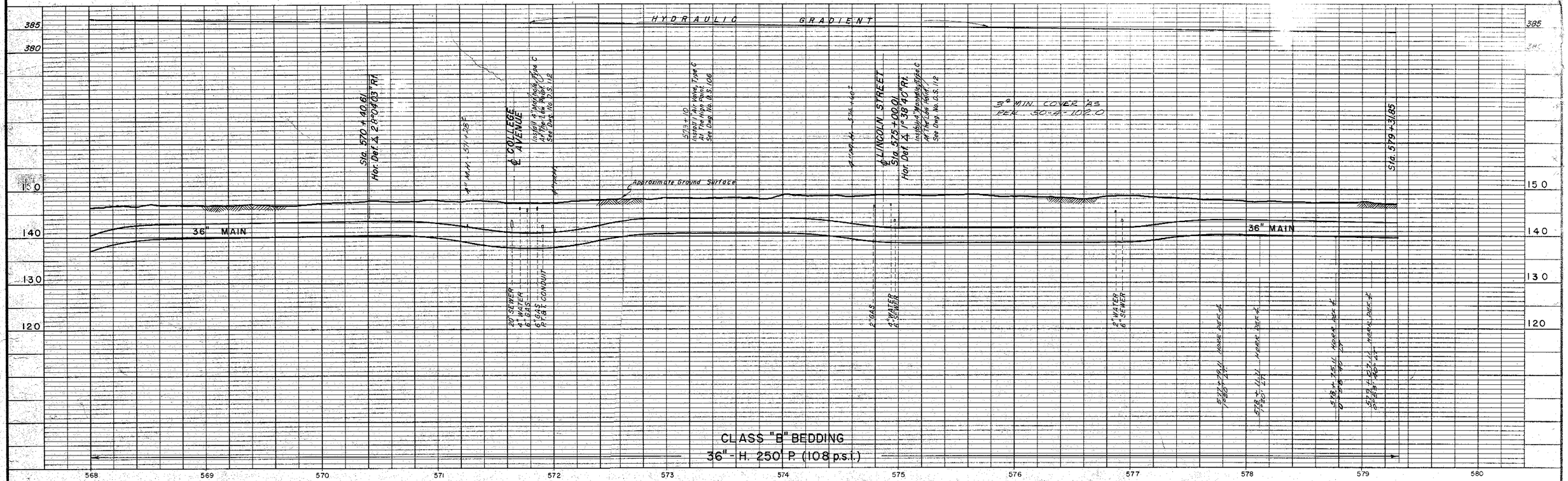
PHII-4D

PRINTED ON DIEPO NO. 1025 PAPERCLOTH

Return to Revised Index

MICROFILMED

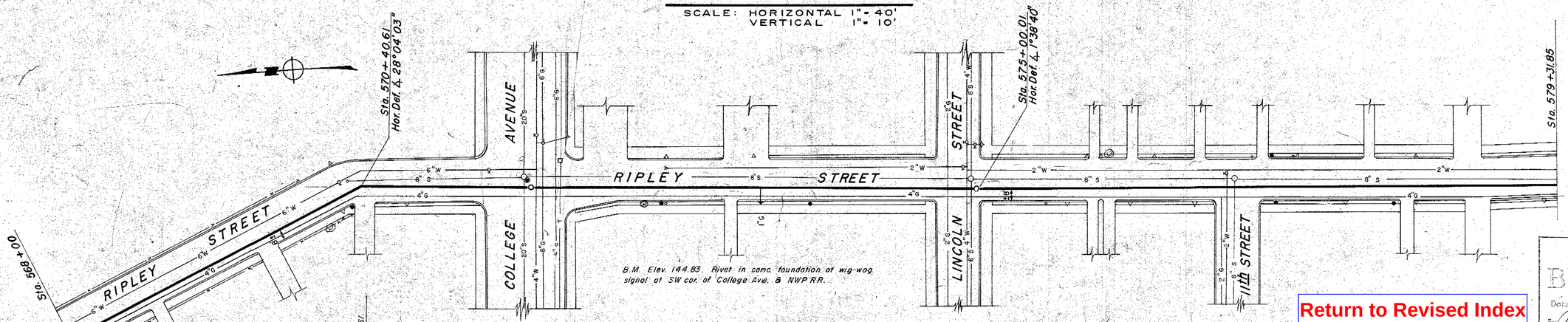
PLATE I - PLAN-PROFILE O. P. R. & R. E. STANDARD
THE ENGDERICK POST CO., CHICAGO



PROFILE

SCALE: HORIZONTAL 1"= 40'
VERTICAL 1"= 10'

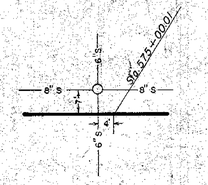
CLASS "B" BEDDING
36"- H. 250' P. (108 p.s.i.)



ANGLE POINT
FIELD LOCATION
NO SCALE

PLAN

SCALE: LONGITUDINAL 1"= 40'
TRANSVERSE 1"= 40'



ANGLE POINT
FIELD LOCATION
NO SCALE

AS BUILT
Date 1-26-60
By

Return to Revised Index

Approved Robert Van Guelpen
Robert Van Guelpen
City Engineer
City of Santa Rosa

No.	DATE	REVISION	By
1	12/57	Bench Mks, ∠ pts, Ref pts. added	VT

FRANK B. SARLES
CONSULTING CIVIL ENGINEER - SANTA ROSA, CALIFORNIA

APPROVED Frank B. Sarles R.C.E. 5951

DRAWN BY M.N.-J.R.-J.B.	CHECKED BY	DATE AUGUST, 1957

RUSSIAN RIVER AQUEDUCT No. I
Sta. 568 + 00 to Sta. 579 + 32

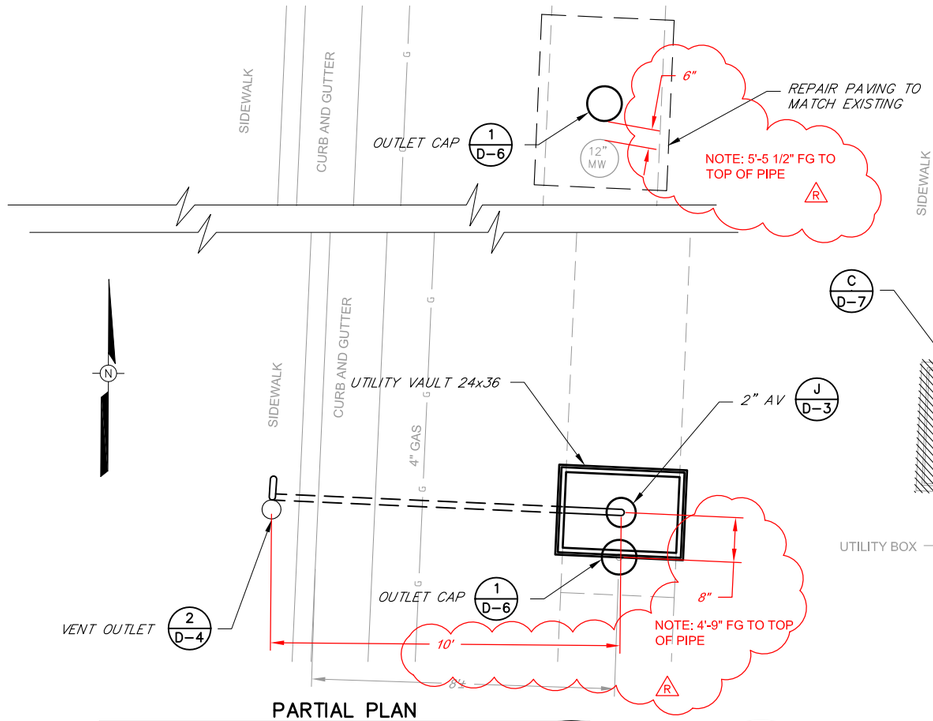
SCALE:	APPROVED Gordon W. Mueller CHIEF ENGINEER	DRAWN
DATE:		

SONOMA COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT

DESIGNED	CHECKED	DRAWING NUMBER 50-4-102.25

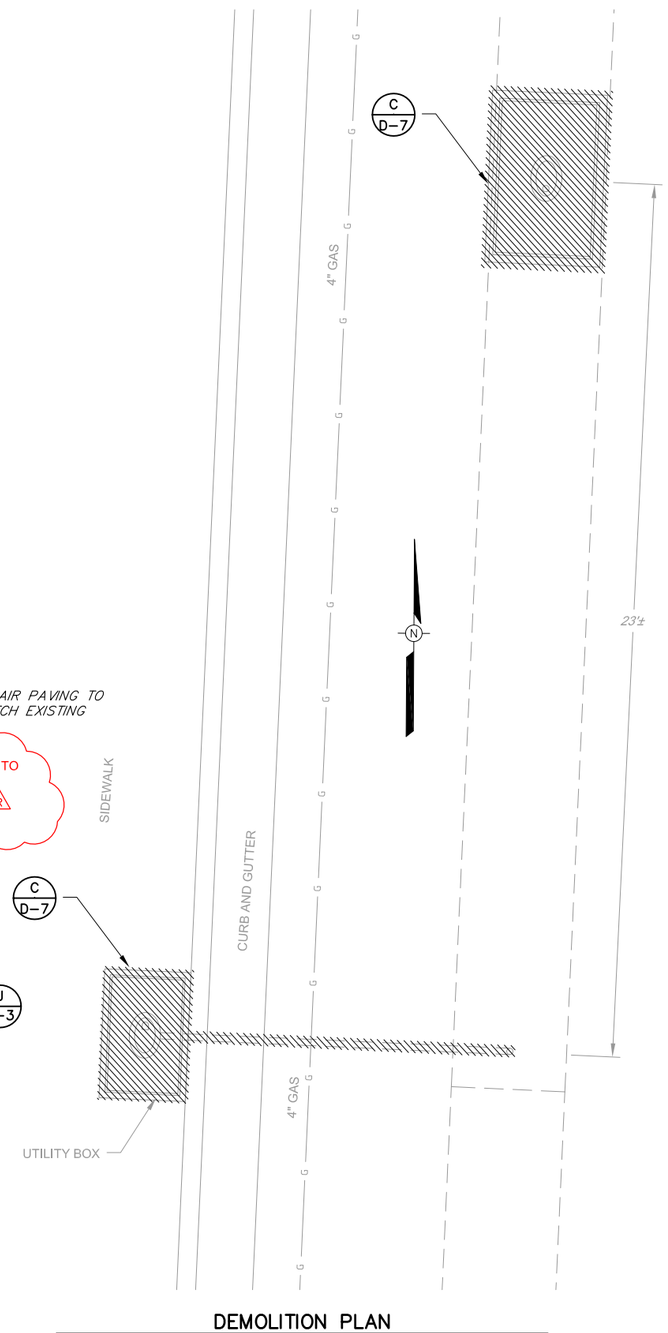
VIEW – A

NTS (LOOKING SOUTH)



PARTIAL PLAN

NTS



DEMOLITION PLAN

NTS

SITE PLAN

SCALE: 1" =100'

PROJECT RECORD DRAWING

Prepared by:

Pipeline Excavators
P.O. Box 1755
Sebastopol, Ca 95473

(707) 824–8546

January 28, 2009

NOTE: R APPROXIMATELY X FEET OF COVER OVER PIPE

Return to Revised Index

BAR LENGTH ON ORIGINAL DRAWING EQUALS ONE INCH. ADJUST SCALE ACCORDINGLY

REGISTERED PROFESSIONAL ENGINEER DALE P. ROBERTS No. M 029944 Exp. 6/30/08 MECHANICAL STATE OF CALIFORNIA

REGISTERED PROFESSIONAL ENGINEER DALE P. ROBERTS No. C 67949 Exp. 6/30/09 CIVIL STATE OF CALIFORNIA

NO.	DATE	REVISION	BY
	07/25/08	CONFORMED	
R	04–14–09	RECORD DRAWING ACCEPTED BY SCWA	

SONOMA COUNTY WATER AGENCY

SCALE : AS SHOWN | DATE : 28/05/2008

DRAWN : ADF

REVIEWED :

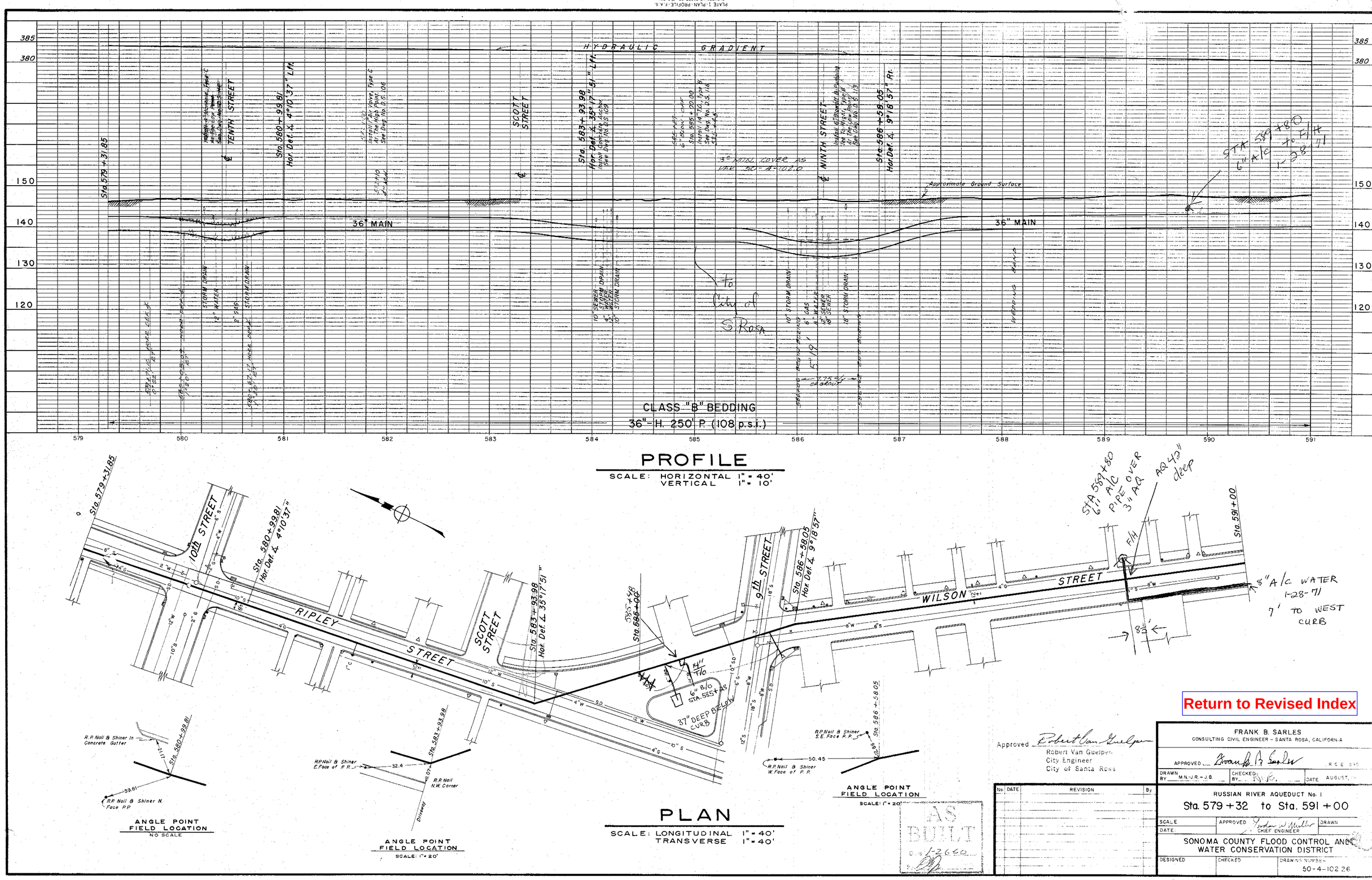
AIR VALVE UPGRADE PROJECT PHASE 1
SANTA ROSA AQUEDUCT
STA 573+10 SITE PLAN AND DETAILS

FILE NAME: 4078c26–32R.dwg
CONTRACT NUMBER: 60–4–7 #14

DRAWING NUMBER: C–26

SHEET 31 OF 63

\\Sd-data\Proj\water transmission\pipelines\4078_AV-Replacement\4078_record-dwgs\4078c26-32R.dwg



Return to Revised Index

Approved Robert Van Guelpen
Robert Van Guelpen
City Engineer
City of Santa Rosa

AS BUILT
Date 1-26-60

No.	DATE	REVISION	By

FRANK B. SARLES
CONSULTING CIVIL ENGINEER - SANTA ROSA, CALIFORNIA

APPROVED Frank B. Sarles R.C.E. 595

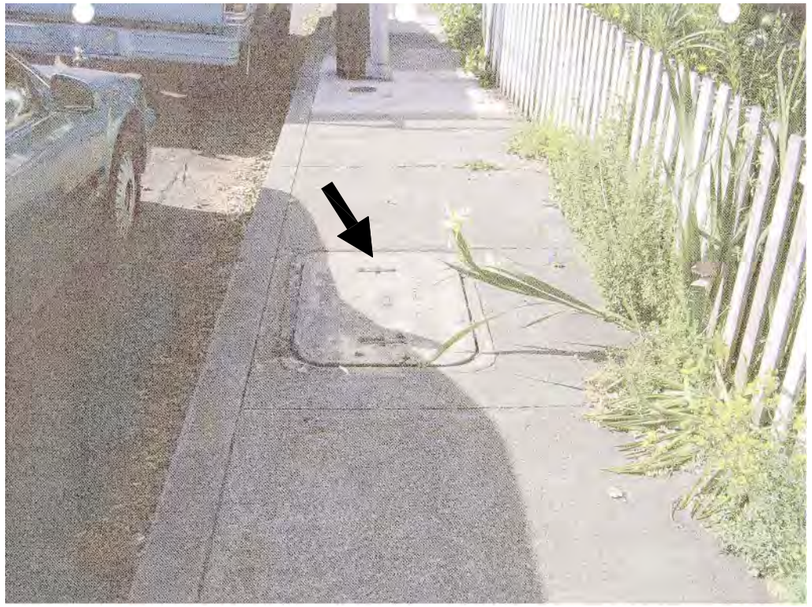
DRAWN BY M.N.-J.R.-J.B. CHECKED BY DATE AUGUST

RUSSIAN RIVER AQUEDUCT No. 1
Sta. 579+32 to Sta. 591+00

SCALE APPROVED Jordan W. Miller CHIEF ENGINEER DRAWN
DATE

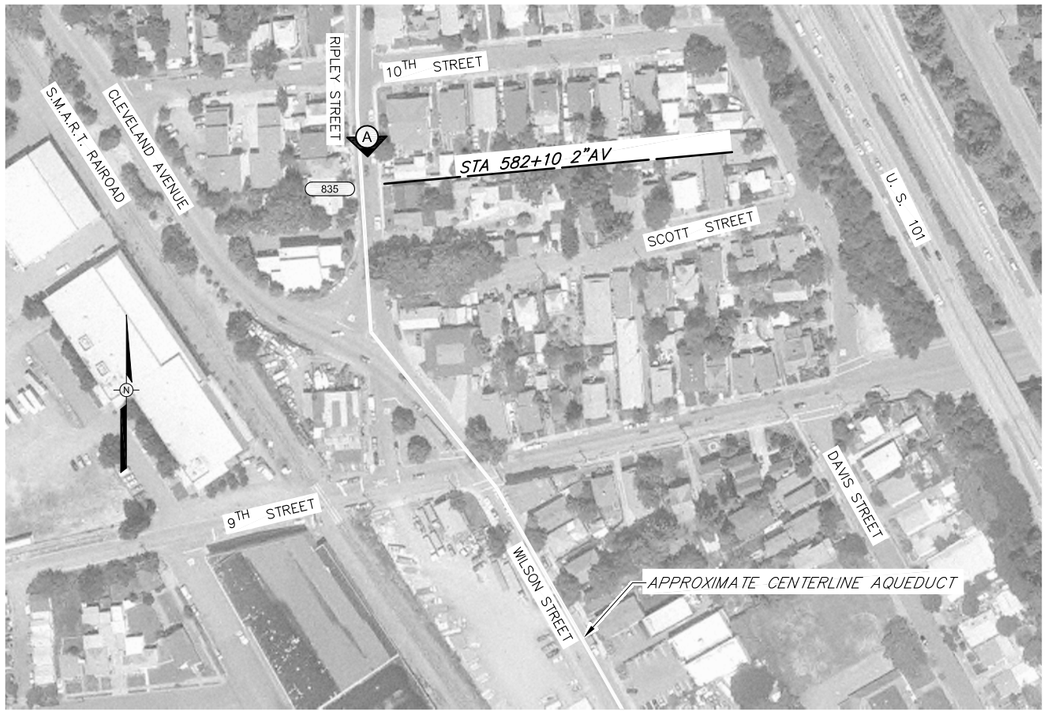
SONOMA COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT

DESIGNED CHECKED DRAWING NUMBER 50-4-102.26



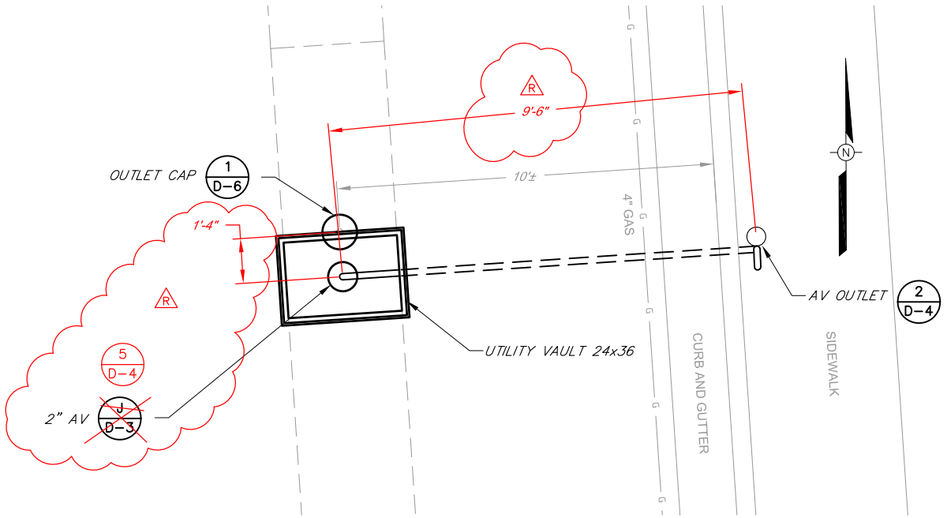
VIEW – A

NTS (LOOKING SOUTH)



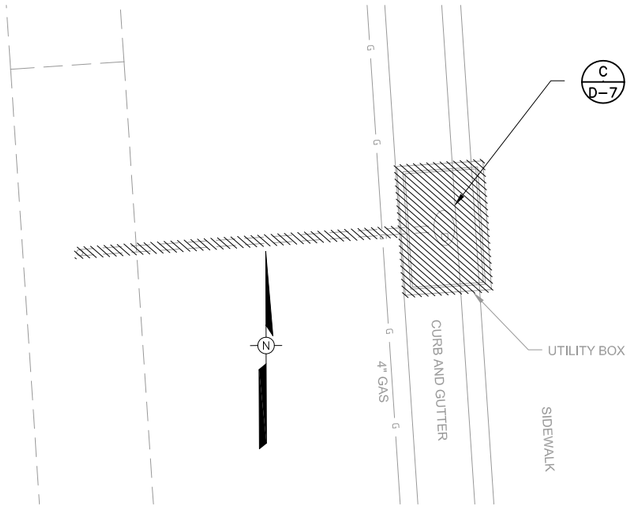
SITE PLAN

SCALE: 1" =100'



PARTIAL PLAN

NTS



DEMOLITION PLAN

NTS

PROJECT RECORD DRAWING

Prepared by:

Pipeline Excavators
P.O. Box 1755
Sebastopol, Ca 95473

(707) 824–8546

January 28, 2009

NOTE:
R
APPROXIMATELY 3.5 FEET OF COVER OVER PIPE

Return to Revised Index

BAR LENGTH ON ORIGINAL DRAWING EQUALS ONE INCH. ADJUST SCALE ACCORDINGLY

REGISTERED PROFESSIONAL ENGINEER
DALE P. ROBERTS
No. M 029944
Exp. 6/30/08
MECHANICAL
STATE OF CALIFORNIA

REGISTERED PROFESSIONAL ENGINEER
DALE P. ROBERTS
No. C 67949
Exp. 6/30/09
CIVIL
STATE OF CALIFORNIA

NO.	DATE	REVISION	BY
	07/25/08	CONFORMED	
R	04-14-09	RECORD DRAWING ACCEPTED BY SCWA	

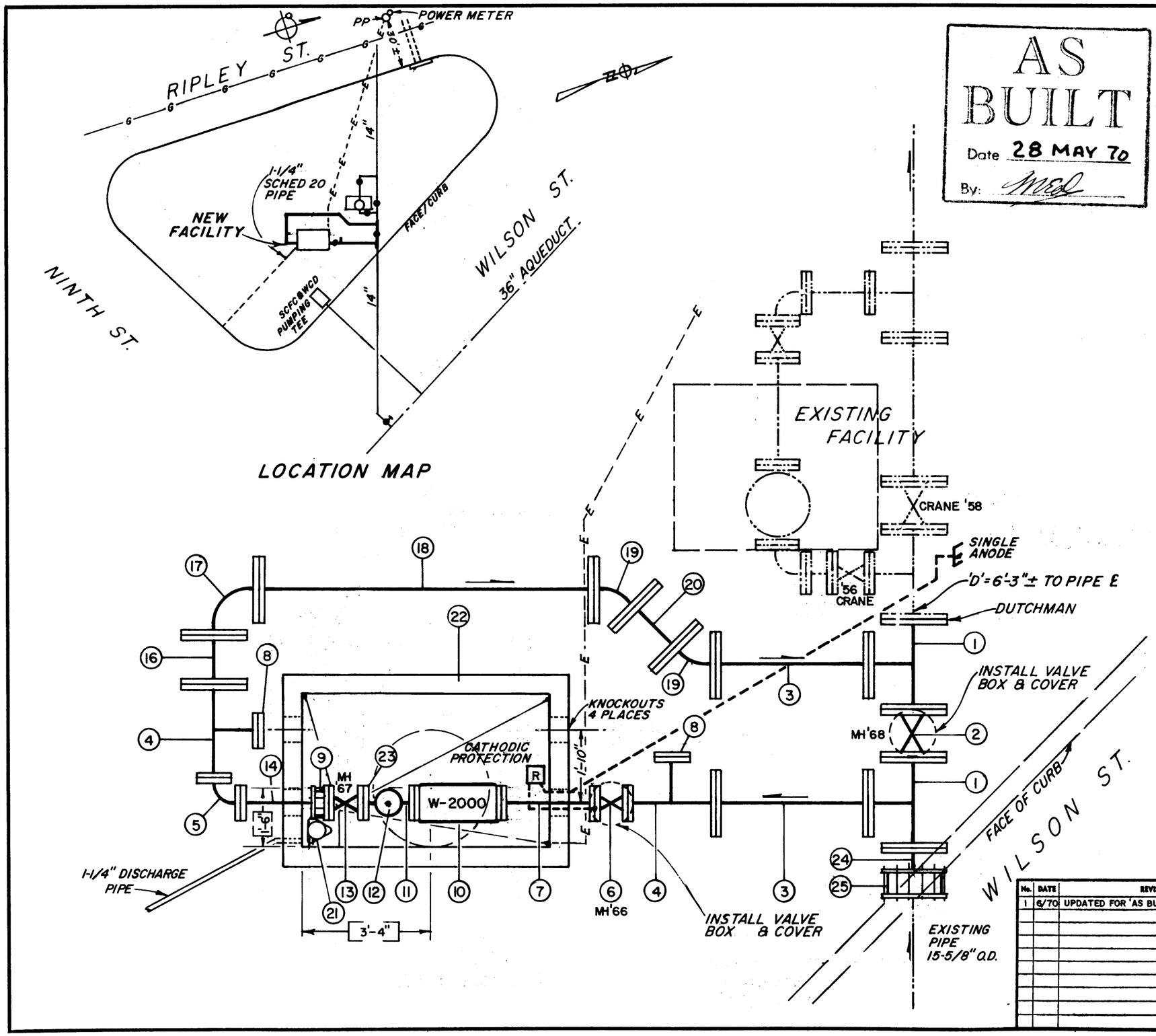
SONOMA COUNTY WATER AGENCY

SCALE : AS SHOWN
DATE : 28/05/2008
DRAWN : ADF
REVIEWED :

AIR VALVE UPGRADE PROJECT PHASE 1
SANTA ROSA AQUEDUCT
STA 582+10 SITE PLAN AND DETAILS

FILE NAME: 4078c26-32R.dwg
CONTRACT NUMBER: 60-4-7 #14
DRAWING NUMBER: C-27
SHEET 32 OF 63

\\Sd-data\Proj\water transmission\pipelines\4078_AV-Replacement\4078_record-dwgs\4078c26-32R.dwg



AS BUILT
Date 28 MAY 70
By: MEJ

SCHEDULE OF MATERIALS (FROM GENERAL STOCK)

1	14"x14"x14" TEE (2 REQ'D)
2	14" GATE VALVE
3	14"x4'-0" PIPE FBE (2 REQ'D.)
4	14"x6"x6" TEE (2 REQ'D)
5	6"x6" 90° ELL
6	6" GATE VALVE W/OPERATING NUT
7	6" PIPE, 2'-4", FBE
8	6" BLIND FLANGE (2 REQ'D)
9	6" FLANGE x PLAIN END, FLANGED COUPLING ADAPTOR SMITH-BLAIR 912-6-690
10	6" ROCKWELL METER W-2000 (FURN. BY DISTRICT)
11	6"x6"x4" TEE
12	4" BLIND FLANGE
13	6" GATE VALVE W/OPERATING HANDWHEEL
14	6"x2'-6" PIPE, FOE
15	DELETED
16	14"x1'-4-3/8" PIPE FBE
17	14"x14" 90° ELL
18	14"x8'-11-5/8" PIPE FBE
19	14"x14" 45° ELL (2 REQ'D)
20	14"x1'-6" PIPE FBE
21	SUMP PUMP ASSEMBLY WITH 1-1/4" DISCHARGE PIPE TO CURB SEE DWG. No. 50-2-102.24
22	4'-0"x6'-6" VAULT, POURED IN PLACE
23	PIPE SUPPORTS (2 REQ'D)
24	14"x0'-8-1/2" PIPE, FOE
25	PIPE COUPLING, SMITH-BLAIR No. 913-14-1565

N-5

Return to Revised Index

S.R. STA. 585+00

No.	DATE	REVISION	By
1	6/70	UPDATED FOR 'AS BUILTS'	KP

WATER METER INSTALLATION
NINTH ST. & WILSON ST
SANTA ROSA

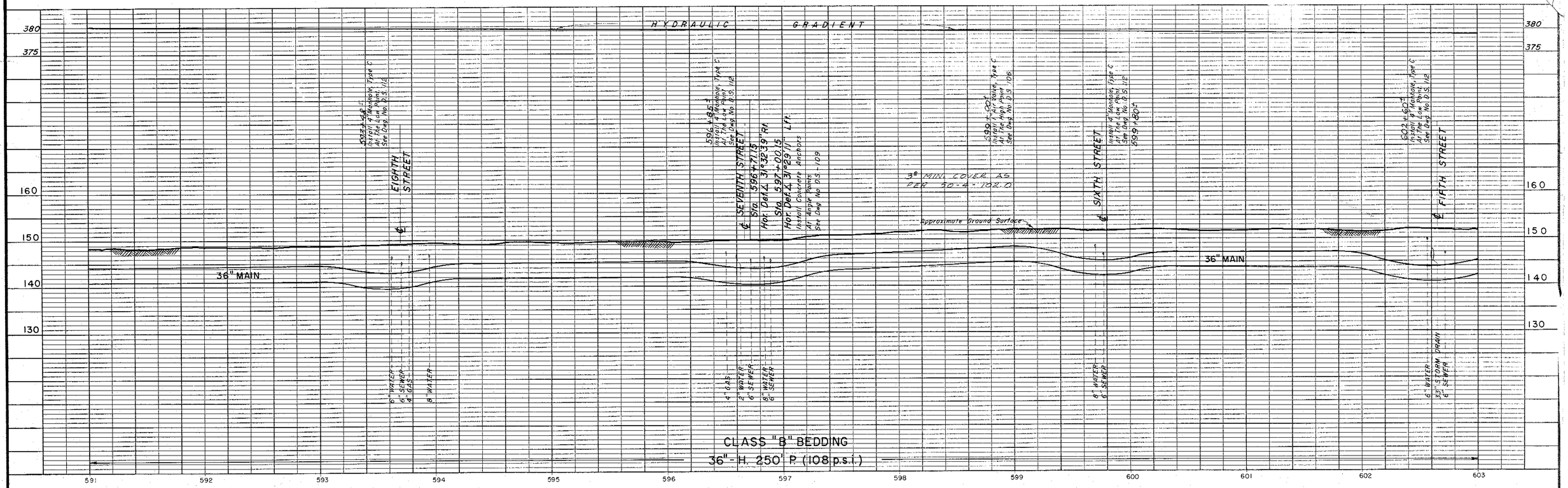
SCALE: 3/8"=1'-0"
DATE: NOV. 12, '68
APPROVED Gordon W. Mills CHIEF ENGINEER
DRAWN kwp
K.L.L.

SONOMA COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT

DESIGNED S. Allen
DRAWING NUMBER 50-2-102.15

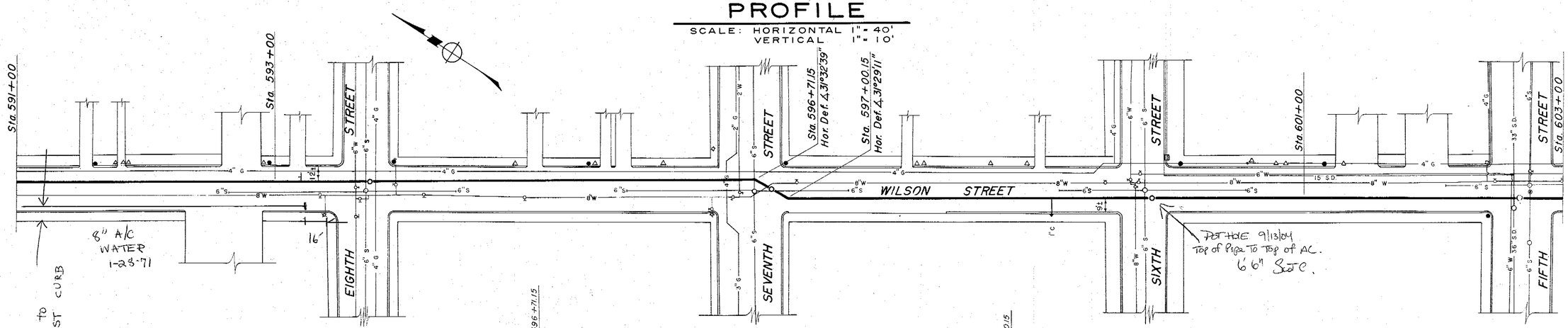
MICROFILMED

PRINTED ON DIEPO NO. 1025 PAPERCLOTH



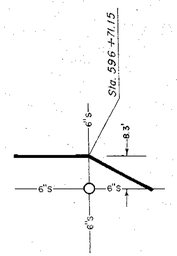
PROFILE

SCALE: HORIZONTAL 1" = 40'
VERTICAL 1" = 10'

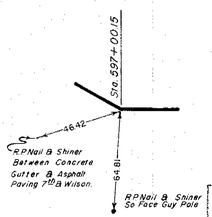


PLAN

SCALE: LONGITUDINAL 1" = 40'
TRANSVERSE 1" = 40'



ANGLE POINT FIELD LOCATION
NO SCALE



ANGLE POINT FIELD LOCATION
NO SCALE

Return to Revised Index

AS BUILT
Date 1-26-66

Approved Robert Van Gueipen
Robert Van Gueipen
City Engineer
City of Santa Rosa

No.	DATE	REVISION	By

FRANK B. SARLES
CONSULTING CIVIL ENGINEER - SANTA ROSA, CALIFORNIA

APPROVED Frank B. Sarles R.C.E. 595

DRAWN BY M.N.-J.R.-J.B. | CHECKED BY F.W.R. | DATE AUGUST, 195

RUSSIAN RIVER AQUEDUCT No. 1
Sta. 591 + 00 to Sta. 603 + 00

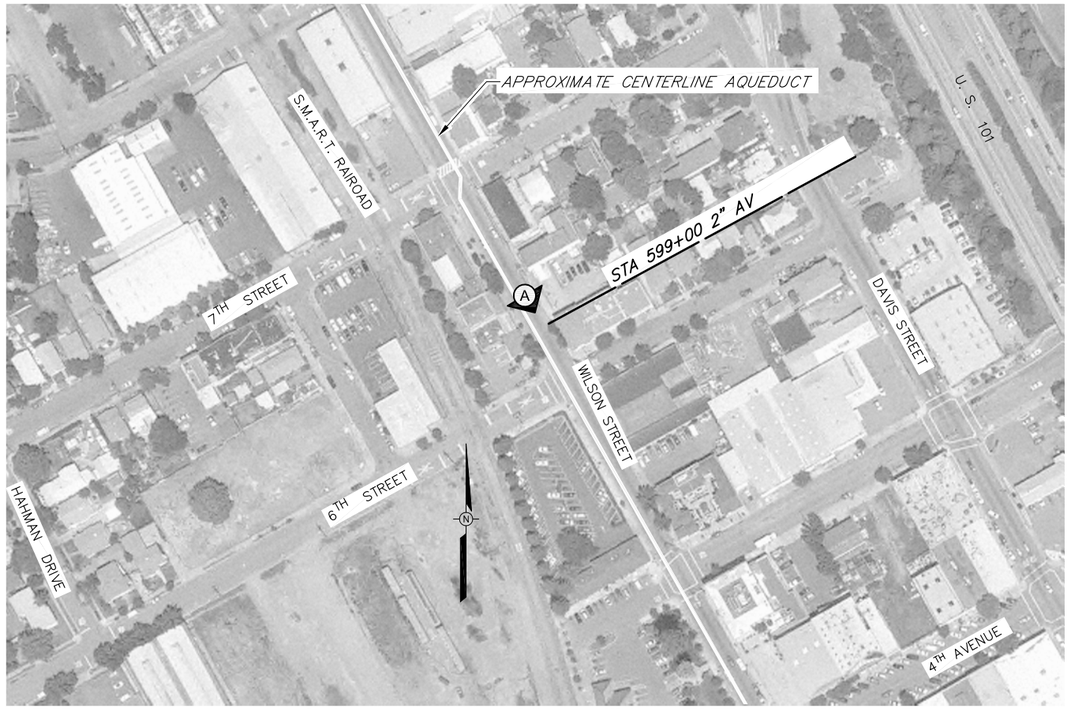
SCALE: | APPROVED Gordon W. Miller CHIEF ENGINEER | DRAWN
DATE:

SONOMA COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT

DESIGNED | CHECKED | DRAWING NUMBER 50-4-102.27

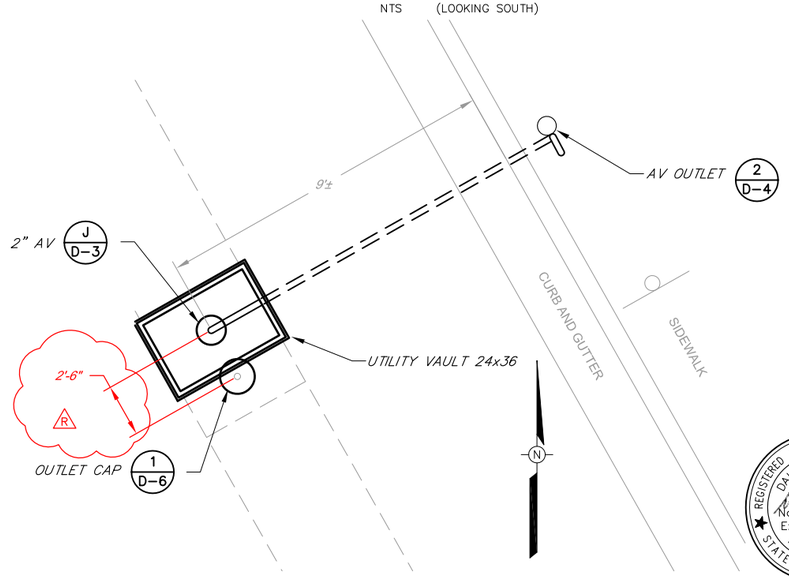
VIEW – A

NTS (LOOKING SOUTH)



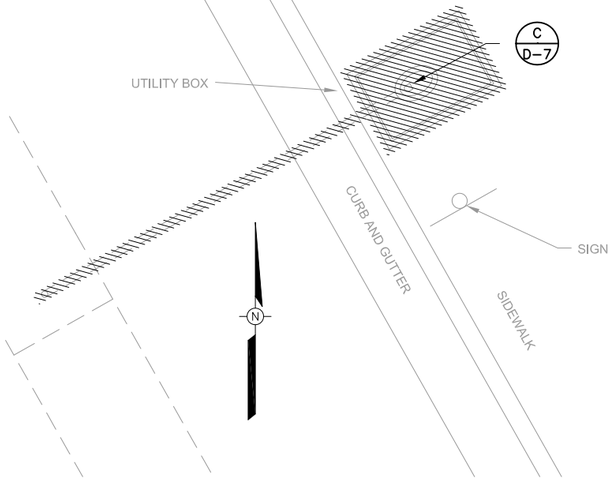
SITE PLAN

SCALE: 1" =100'



PARTIAL PLAN

NTS



DEMOLITION PLAN

NTS

REGISTERED PROFESSIONAL ENGINEER
DALE P. ROBERTS
No. M 029944
Exp. 6/30/08
MECHANICAL
STATE OF CALIFORNIA

REGISTERED PROFESSIONAL ENGINEER
DALE P. ROBERTS
No. C 67949
Exp. 6/30/09
CIVIL
STATE OF CALIFORNIA

PROJECT RECORD DRAWING

Prepared by:

Pipeline Excavators
P.O. Box 1755
Sebastopol, Ca 95473

(707) 824–8546

January 28, 2009

NOTE:
R APPROXIMATELY 6.5' FEET OF COVER OVER PIPE

Return to Revised Index

BAR LENGTH ON ORIGINAL DRAWING EQUALS ONE INCH. ADJUST SCALE ACCORDINGLY

NO.	DATE	REVISION	BY
	07/25/08	CONFORMED	
R	04–14–09	RECORD DRAWING ACCEPTED BY SCWA	

SONOMA COUNTY WATER AGENCY

SCALE : AS SHOWN
DATE : 28/05/2008
DRAWN : ADF
REVIEWED :

AIR VALVE UPGRADE PROJECT PHASE 1
SANTA ROSA AQUEDUCT
STA 599+00 SITE PLAN AND DETAILS

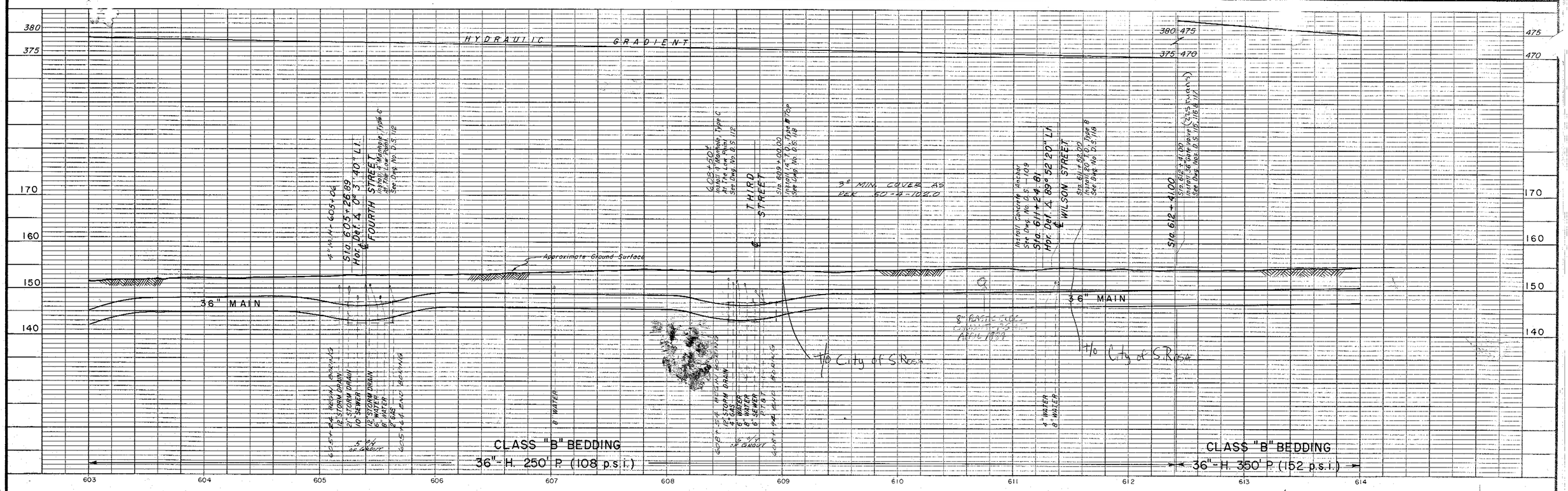
FILE NAME: 4078c26–32R.dwg
CONTRACT NUMBER: 60–4–7 #14

DRAWING NUMBER: C–28

SHEET 33 OF 63

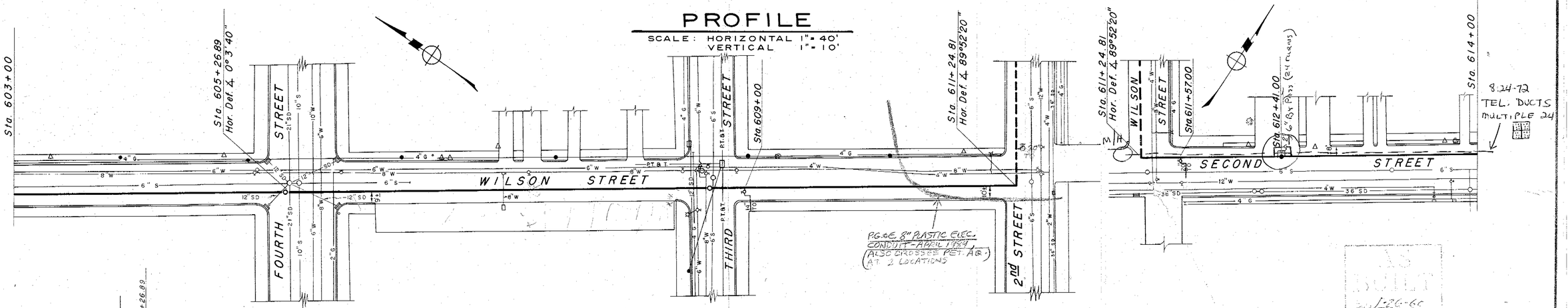
\\Sd-data\Proj\water transmission\pipelines\4078_AV-Replacement\4078_record-dwgs\4078c26-32R.dwg

PLATE 1: PLAN, PROFILE - F.A.S.
CLEARANT PAPER CO., S.F., CAL.
No. 1000H-1



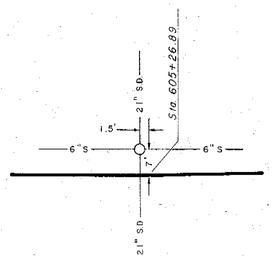
PROFILE

SCALE: HORIZONTAL 1" = 40'
VERTICAL 1" = 10'

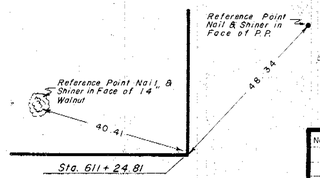


PLAN

SCALE: LONGITUDINAL 1" = 40'
TRANSVERSE 1" = 40'



ANGLE POINT
FIELD LOCATION
SCALE 1"=20'



ANGLE POINT
FIELD LOCATION
SCALE 1"=20'

Approved Robert Van Guelpen
Robert Van Guelpen
City Engineer
City of Santa Rosa

FRANK B. SARLES
CONSULTING CIVIL ENGINEER - SANTA ROSA, CALIFORNIA

APPROVED Frank B Sarles R.C.E. 5951

DRAWN BY	CHECKED BY	DATE
M.N.-J.R.-J.B	K.W.P.	AUGUST, 1957

No.	DATE	REVISION	By

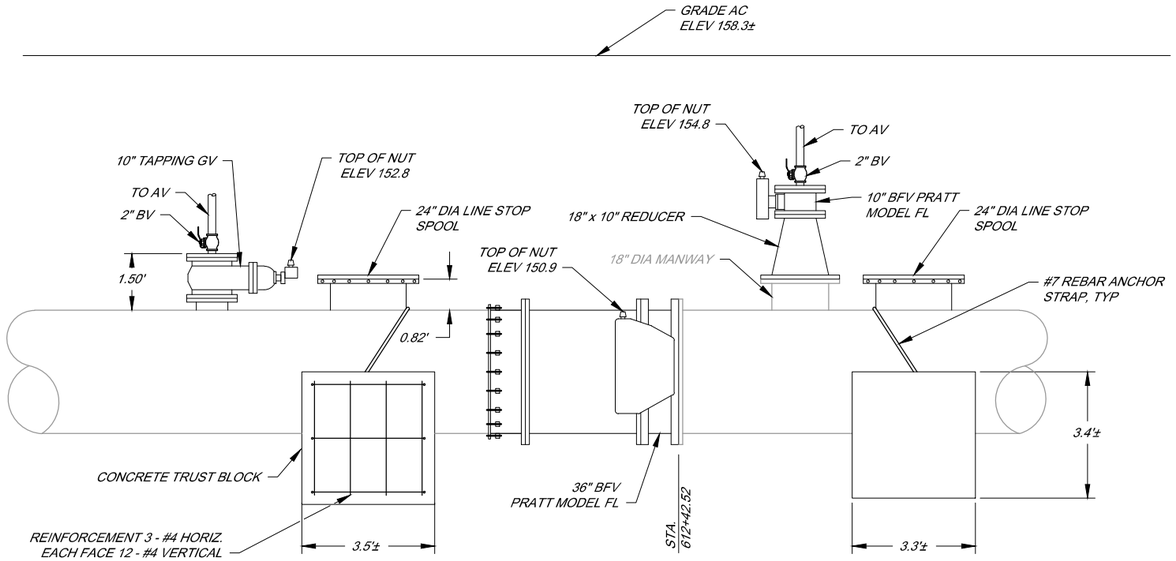
RUSSIAN RIVER AQUEDUCT No. 1
Sta. 603+00 to Sta. 614+00

SCALE:
DATE:
APPROVED Hudson W. Miller CHIEF ENGINEER
DRAWN

SONOMA COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT

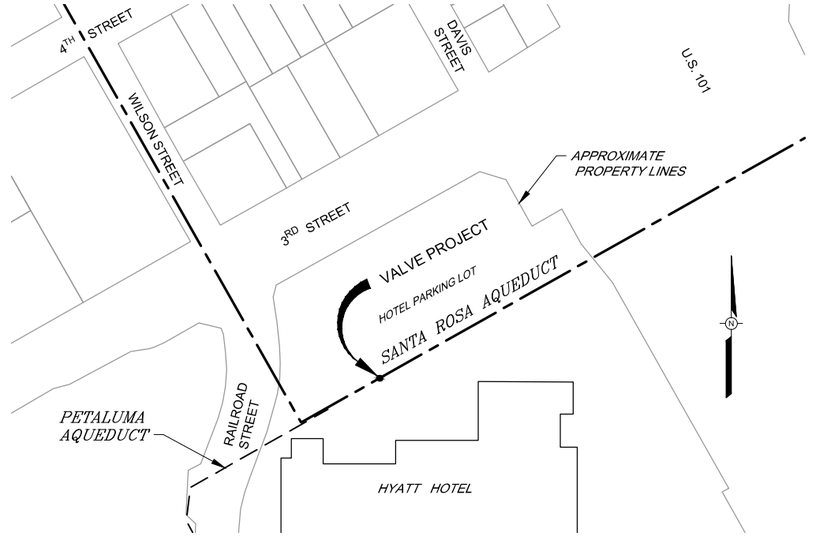
DESIGNED	CHECKED	DRAWING NUMBER
		50-4-102.28

Return to Revised Index



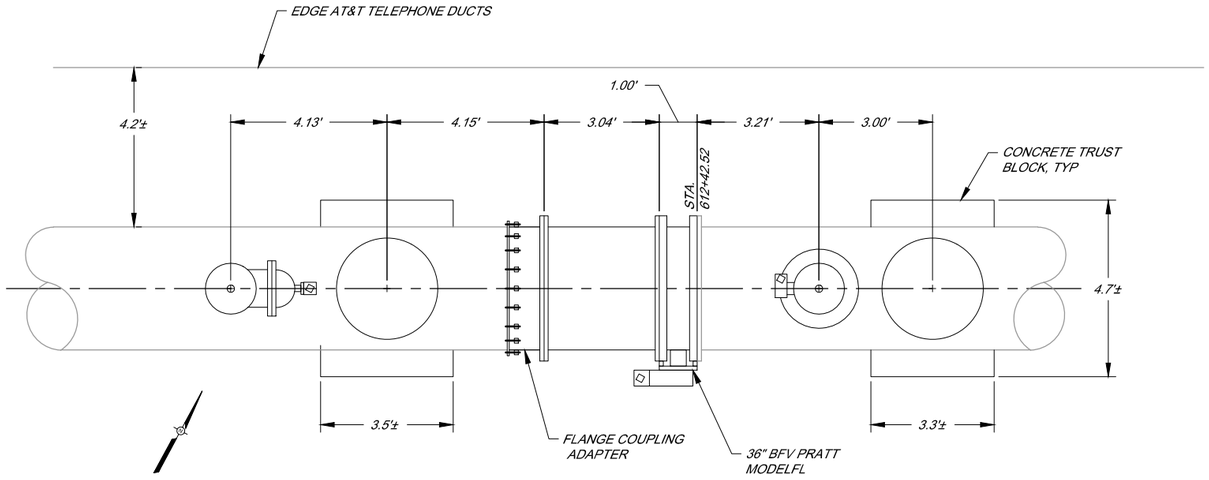
ELEVATION

SCALE 1" = 2'



SITE

NOT TO SCALE



PLAN

SCALE 1" = 2'

Return to Revised Index

BAR LENGTH ON ORIGINAL DRAWING EQUALS ONE INCH. ADJUST SCALE ACCORDINGLY

NO.	DATE	REVISION	BY

SONOMA COUNTY WATER AGENCY

SCALE : AS SHOWN

DATE : 2 October 2012

DRAWN : ADF

REVIEWED :

SANTA ROSA AQUEDUCT

VALVE REPLACEMENT STA 612+41

RECORD DRAWING

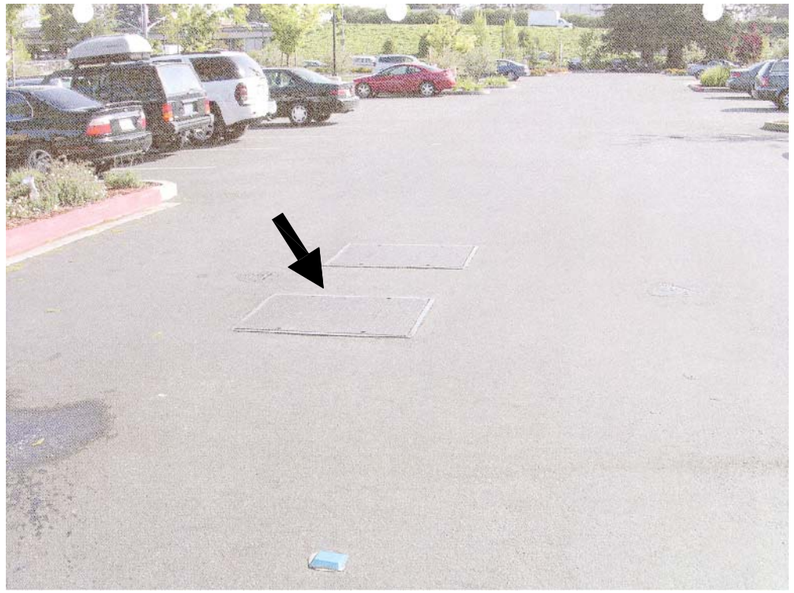
FILE NAME: 2012_valve-replacement

CONTRACT NUMBER:

DRAWING NUMBER: 50-4-102.28.1

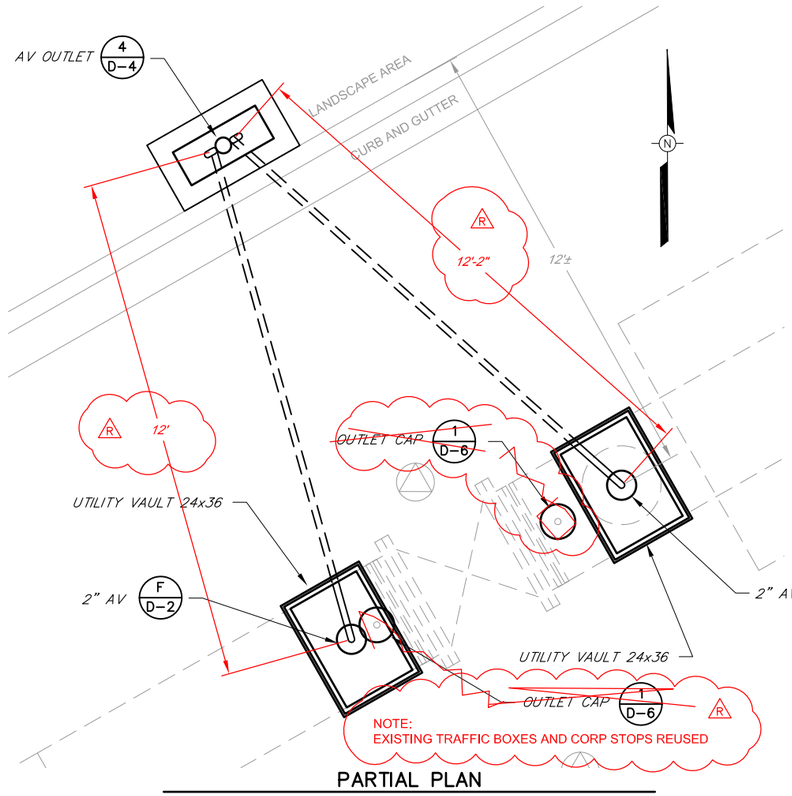
SHEET 1 OF 1

\\SD-DATA\Proj\water transmission\pipelines\santa rosa-rr as 1



VIEW – A

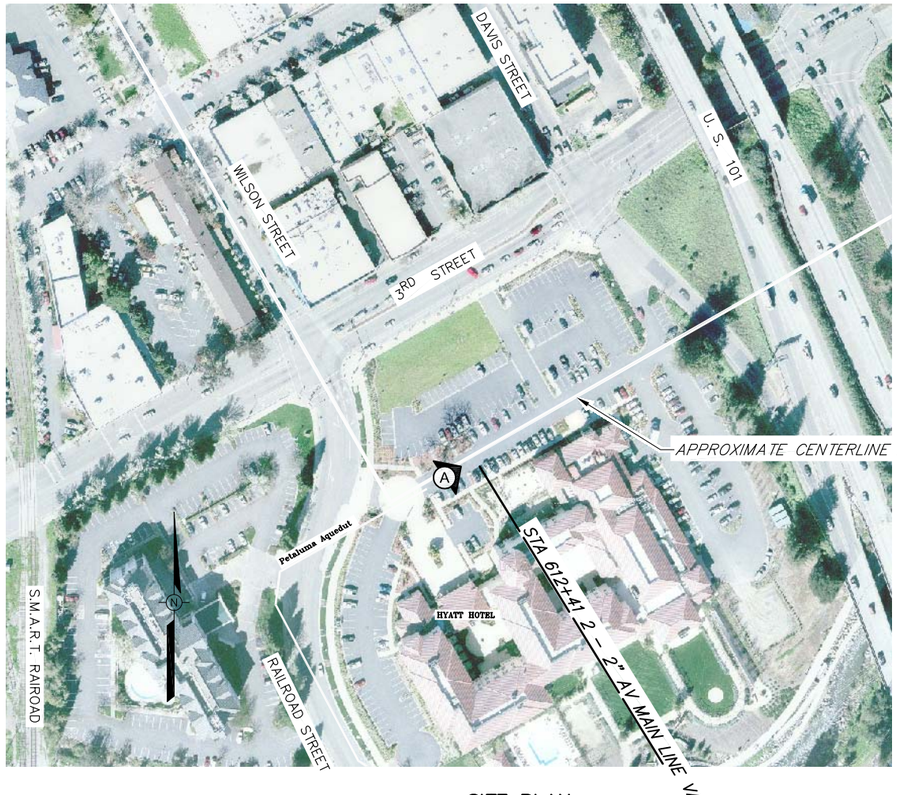
NTS (LOOKING EAST)



PARTIAL PLAN

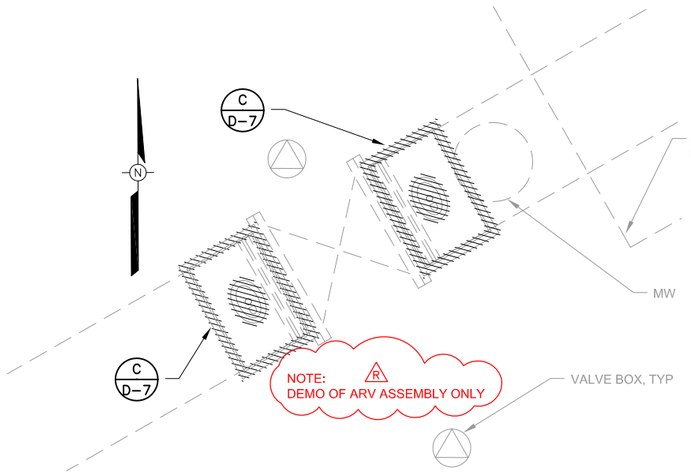
NTS

BAR LENGTH ON ORIGINAL DRAWING EQUALS ONE INCH. ADJUST SCALE ACCORDINGLY



SITE PLAN

SCALE: 1" =100'



DEMOLITION PLAN

NTS

REGISTERED PROFESSIONAL ENGINEER
DALE P. ROBERTS
No. M 029944
Exp. 6/30/08
MECHANICAL
STATE OF CALIFORNIA

REGISTERED PROFESSIONAL ENGINEER
DALE P. ROBERTS
No. C 67949
Exp. 6/30/09
CIVIL
STATE OF CALIFORNIA

PROJECT RECORD DRAWING

Prepared by:

Pipeline Excavators
P.O. Box 1755
Sebastopol, Ca 95473

(707) 824–8546

January 28, 2009

Return to Revised Index

NOTE:
APPROXIMATELY 4 FEET OF COVER OVER PIPE

NO.	DATE	REVISION	BY
	07/25/08	CONFORMED	
R	04–14–09	RECORD DRAWING ACCEPTED BY SCWA	

SONOMA COUNTY WATER AGENCY

SCALE: AS SHOWN | DATE: 28/05/2008

DRAWN: ADF

REVIEWED:

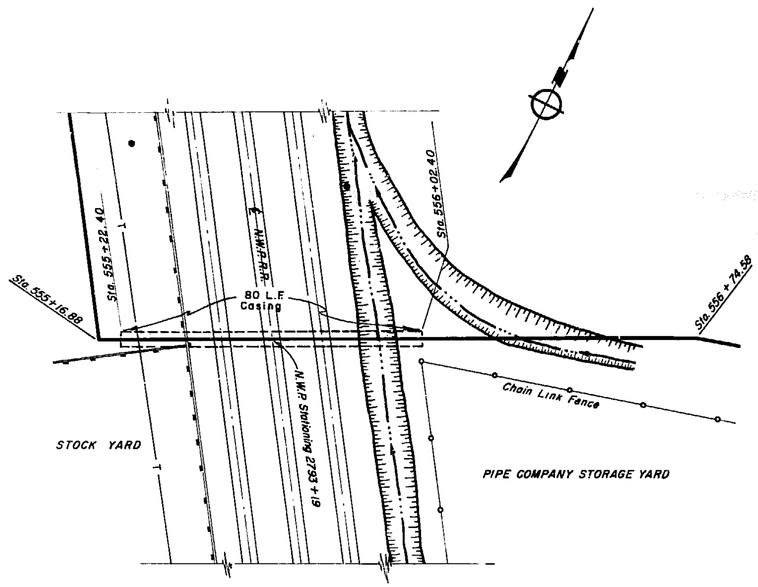
AIR VALVE UPGRADE PROJECT PHASE 1
SANTA ROSA AQUEDUCT
STA 612+41 SITE PLAN AND DETAILS

FILE NAME: 4078c26–32R.dwg
CONTRACT NUMBER: 60–4–7 #14

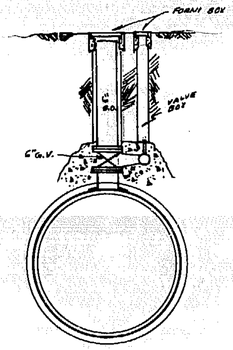
DRAWING NUMBER: C–29

SHEET 34 OF 63

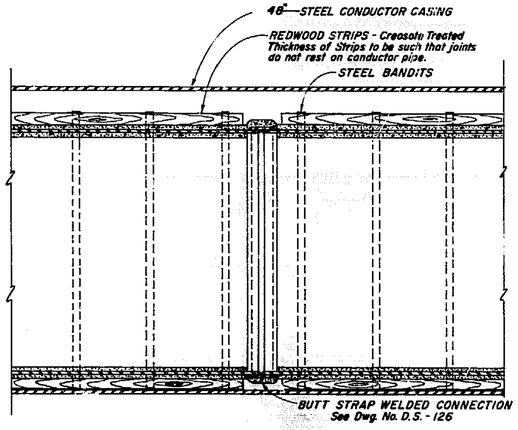
\\Sd-data\Proj\water transmission\pipelines\4078_AV-Replacement\4078_record-dwgs\4078c26-32R.dwg



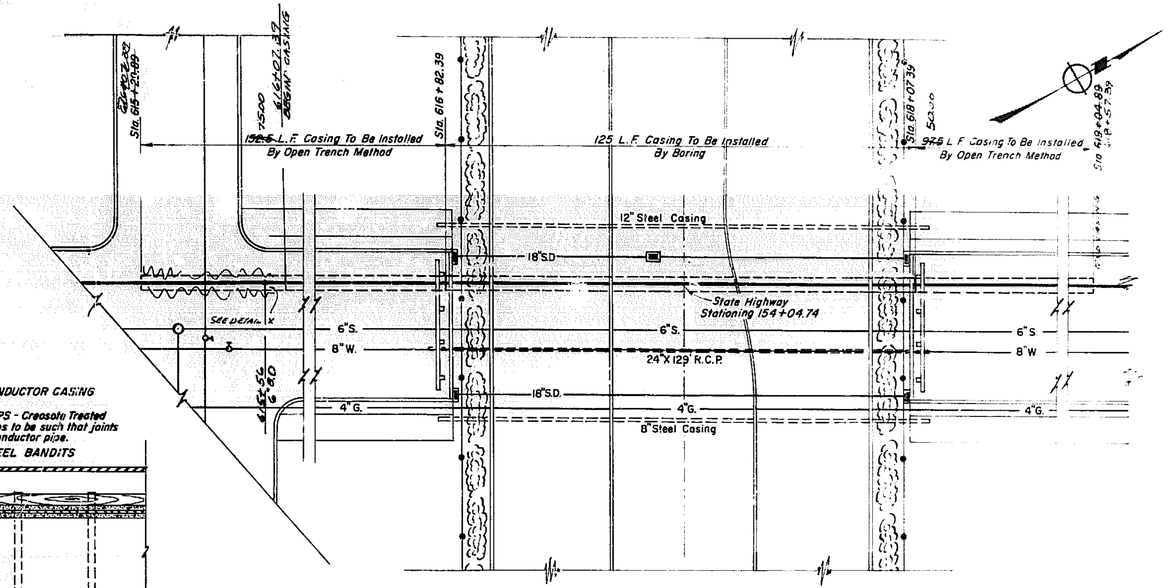
PLAN
SCALE: 1" = 20'



DETAIL X



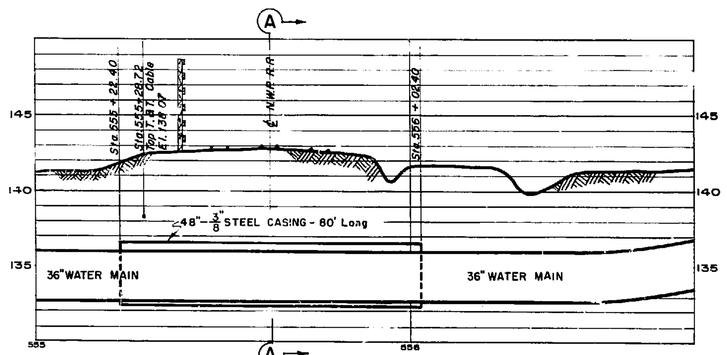
ELEVATION



PLAN
SCALE: 1" = 20'

STATIONING BETWEEN 50-4-102.29, 50-4-102.29A , AND 50-4-102.51 DO NOT MATCH

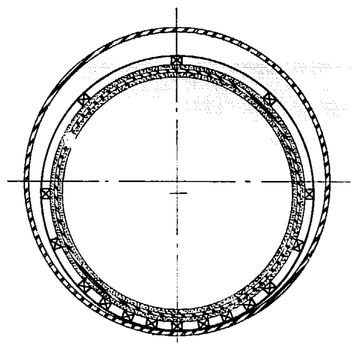
STATE HIGHWAY 101 CROSSING
(IV SON.-1-S.R.)



ELEVATION

N.W.P. RAILROAD CROSSING

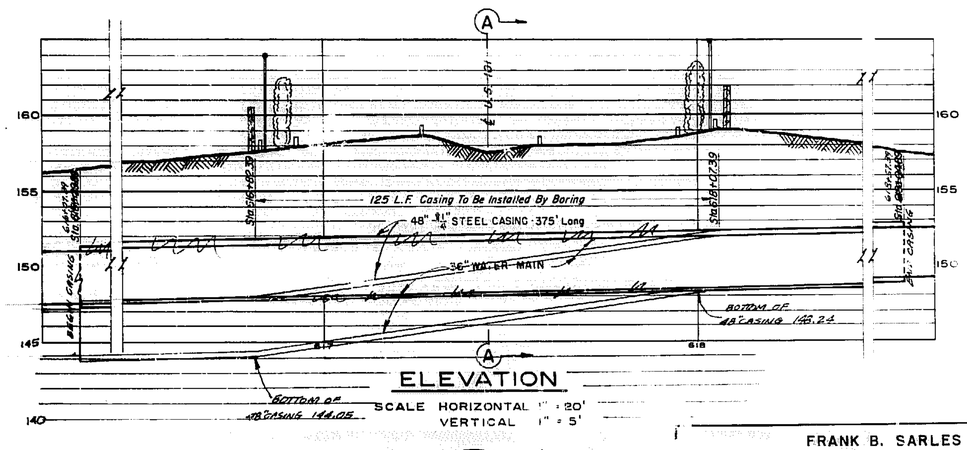
SCALE: HORIZONTAL 1" = 20'
VERTICAL 1" = 5'



SECTION A-A

TYPICAL JOINT INSIDE CONDUCTOR CASING

SCALE: 1" = 1'-0"



ELEVATION
SCALE HORIZONTAL 1" = 20'
VERTICAL 1" = 5'

NOTE:
Class D Bedding Is To Be Used Where Casing Is Installed By Open Trench Method.

Approved Robert Van Guelpen
Robert Van Guelpen
City Engineer
City of Santa Rosa

AS BUILT
Date 1-26-60
By

NO.	DATE	REVISION	BY
1	10/57	Drawing No. 50-4-104.7 Changed To 50-4-102.51	C.R.S.

FRANK B. SARLES
CONSULTING CIVIL ENGINEER — SANTA ROSA, CALIFORNIA
APPROVED Frank B. Sarles R.C.E. 5951
DRAWN BY M.N. CHECKED BY R.B.R. DATE AUGUST, 1957

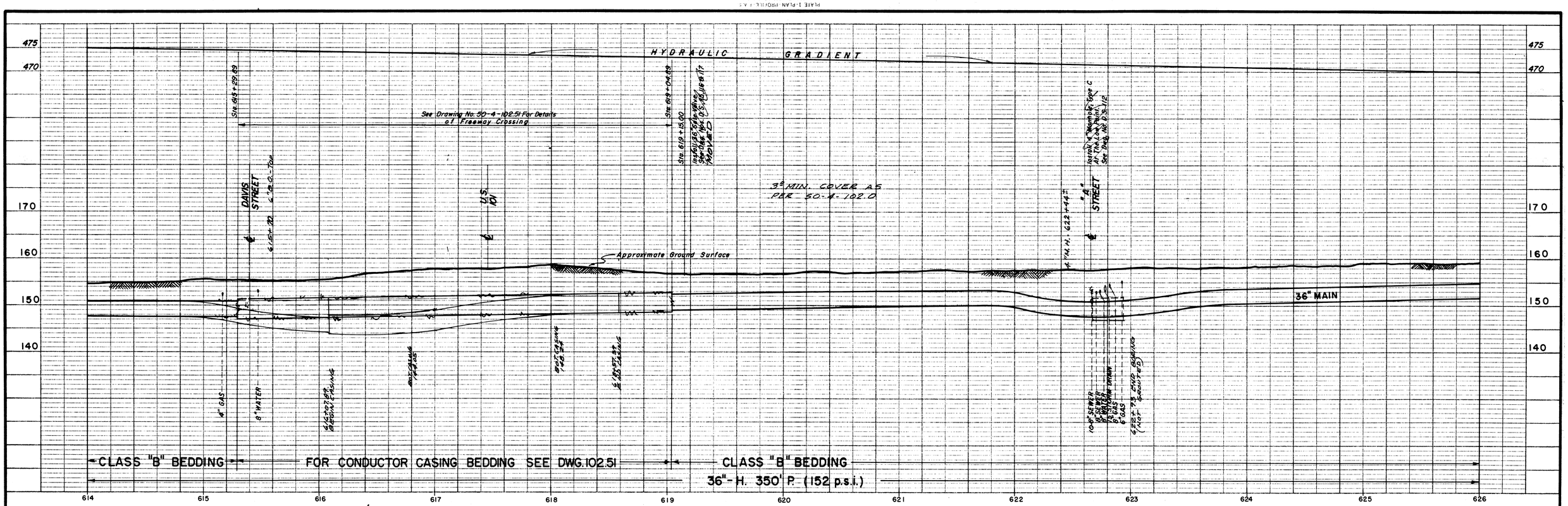
RUSSIAN RIVER AQUEDUCT NO.1
R.R. & HIGHWAY CROSSING

SCALE | APPROVED | DRAWN
DATE | Chief Engineer

SONOMA COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT

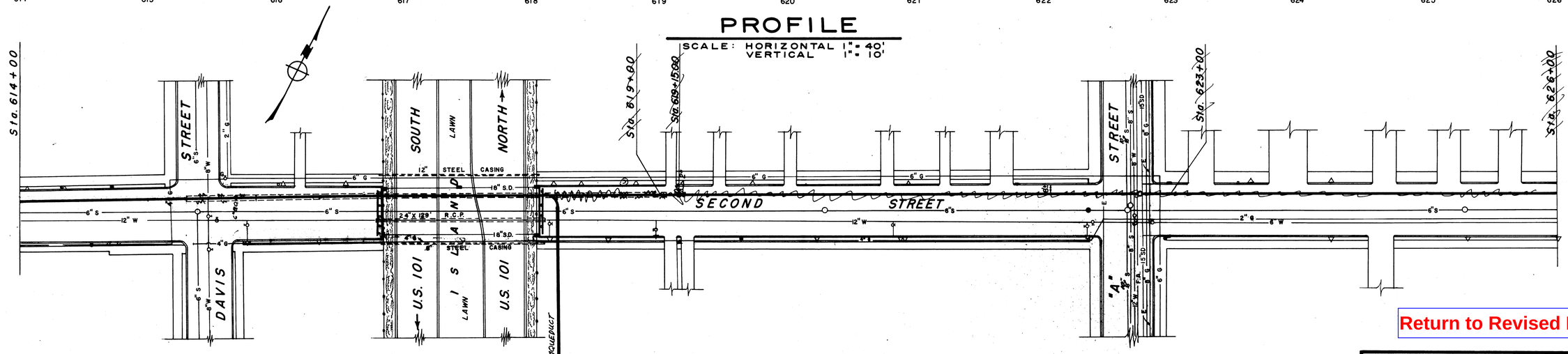
DESIGNED | CHECKED | DRAWING NUMBER 50-4-102.51

Return to Revised Index



PROFILE

SCALE: HORIZONTAL 1" = 40'
VERTICAL 1" = 10'



PLAN

SCALE: LONGITUDINAL 1" = 40'
TRANSVERSE 1" = 40'

BM. Elev. 159.04. Spike in power pole at NE cor. of Davis & Ellis St's.

RELOCATED AQUEDUCT

To "B" STREET

1ST STREET

For Details see URBAN Renewal Phase II Aqueduct Relocation Second street + Hwy 101 To "B" ST + Second street M. Hudis + Associates (Copy in Clerical Files)

Return to Revised Index

Approved Robert Van Guelpen
Robert Van Guelpen
City Engineer
City of Santa Rosa

AS BUILT
Date 1-26-60
By: [signature]

No.	DATE	REVISION	By
1	12/57	Bench mks., ¼ pts, ref. pts. added	VT
2	8/81	URBAN RENEWAL Phase II AQUEDUCT RELOCATION 2nd ST + HWY 101 To "B" ST + 2nd (M. Hudis + Assoc. 1977)	[illegible]

FRANK B. SARLES
CONSULTING CIVIL ENGINEER – SANTA ROSA, CALIFORNIA

APPROVED Frank B. Sarles R.C.E. 5951

DRAWN BY M.N.-J.R.-J.B. | CHECKED BY RMR. | DATE AUGUST, 1957

RUSSIAN RIVER AQUEDUCT No. 1
Sta. 614+00 to Sta. 626+00

SCALE: | APPROVED Gordon W. Miller CHIEF ENGINEER | DRAWN
DATE:

SONOMA COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT

DESIGNED | CHECKED | DRAWING NUMBER 50-4-102.29

MICROFILMED

WEB. CORRECTED 5-23-57 JB 36" Water Main Scale
Sheet 9 of

PLATE 1 - PLAN - PROFILE - F.A.S.
CLEARPRINT PAPER CO. S. F. CAL.
NO. 1000H-1

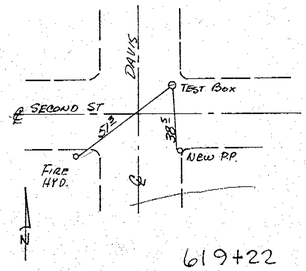
PROFILE
SURVEYED
PLOTTED
ALIGNMENT CHECKED
GRADES CHECKED
R/W LINES
STRUCTURE LOCATIONS CHECKED
NOTE BOOK
NO.

STA. 615+10 INSTALL 6" BLOW-OFF VALVE
STA. 615+30.07 NM (OR 2nd & DAVIS ST'S.
℄ DAVIS STREET
STA. 615+55 BEGIN 48" CASING - 9.5' Below Pavmt - 15.0' of Encasement Across
STA. 616+98 END 48" CASING - 9.5' Below Pavement
STA. 618+12 - 5.5' Below Pavmt
℄ U.S. 101
STA. 618+73.3± BEGIN 48" CASING - 9.5' Below Pavmt
STA. 619+16.3± - 2nd ST. EAST OF FREEWAY
STA. 619+38.3± END 48" CASING - 15.5' Below Pavement
EXISTING GROUND
36" PIPE
EXISTING CONCRETE ENCASEMENT
4" GAS
8" WATER
Encasement Line in Pavement
Elevations 2.15' 1.16' 1.75' 2.85 SOR 48"
Encasement Line in Pavement
Elevations 2.15' 1.16' 1.75' 2.85 SOR 48"

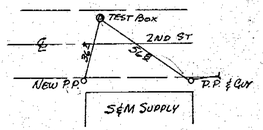
615+00 616+00 617+00 618+00 619+00 620+00

STATIONING BETWEEN 50-4-102.29, 50-4 102.29A, AND 50-4-102.51 DO NOT MATCH

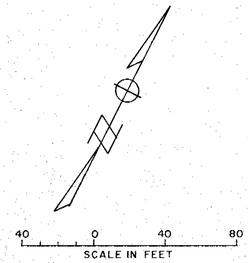
615+51



619+22



LIMITS OF WORK
STA. 615+15 INSTALL 4" BLOW-OFF VALVE
STA. 615+50
STA. 615+55 BEGIN 48" CASING
STA. 616+10 END 48" CASING
STA. 615+98 AS BUILT
EXISTING 48" CONCRETE ENCASEMENT
THIS CONTRACT
STREET
DAVIS
SOUTH
NORTH
U.S. 101
12" STEEL CASING
18" S.D.
24" X 129" RCP
8" STEEL CASING
6" G
12" W
4" G
8" W
2" G
6" S
120'
100'
AS BUILT ℄ STA. 618+57.3± BEGIN 48" CASING
STA. 619+16.3± END 48" CASING
LIMITS OF WORK THIS CONTRACT
SECOND STREET
BLOWOFF VALVE TO BE REMOVED STA. 615+89±
26 ANODES - FOR A DISTANCE OF 120' FROM WEST END.
22 ANODES - FOR A DISTANCE OF 100' FROM EAST END



ANODES ARE 5ft O. OF ℄ OF ENCASEMENT AND AT SAME ELEV. AS TOP OF ENCASEMENT

FOR CONSTRUCTION DETAILS SEE DWG. No. 50-4-102.29B

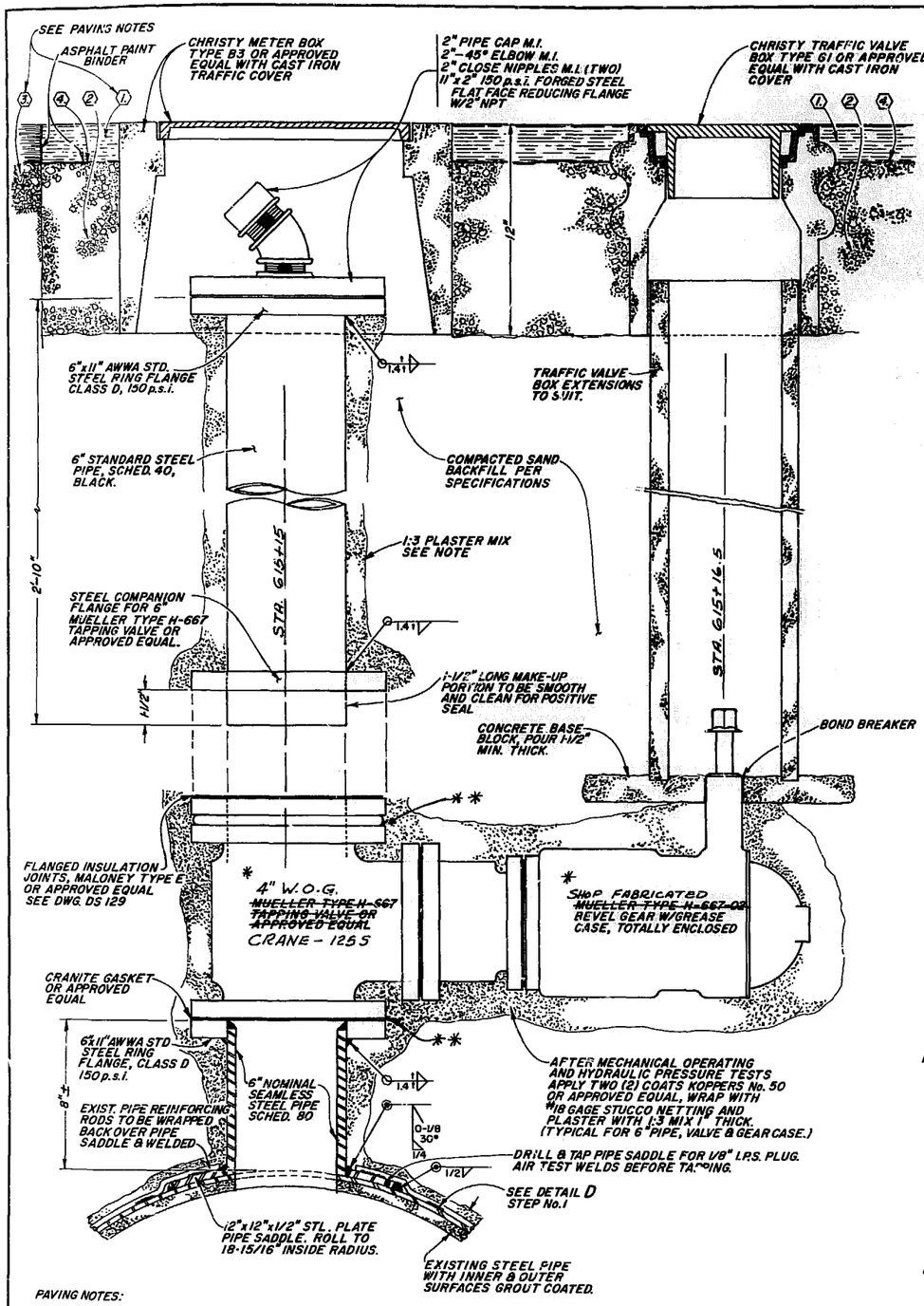
AS BUILT
Date June 2, 1966
By Rodney E. McFarland

Return to Revised Index

No.	DATE	REVISION	By

SANTA ROSA AQUEDUCT
PIPELINE ENCASEMENT EXTENSIONS

SCALE: 1" = 40'
DATE: JAN. 17, 1966
APPROVED John W. Mitchell CHIEF ENGINEER RE 8271
DRAWN SKMc
SONOMA COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT
DESIGNED John C. Morrison RE 14817
SUBMITTED O.S. Woodland RE 8557
DRAWING NUMBER 50-4-102.29A



PAVING NOTES:

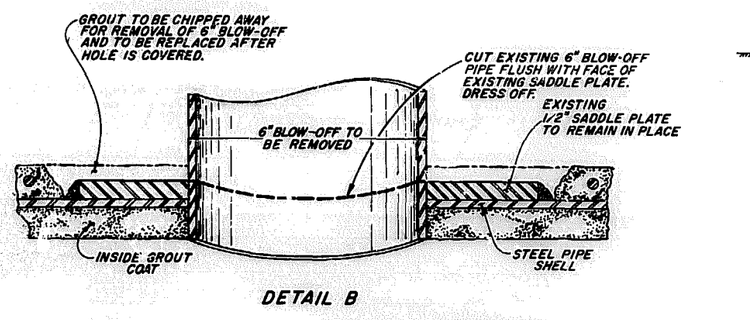
(1) PLANT MIX, TYPE B, SECTION 20 STATE HIGHWAY STANDARD SPECIFICATIONS 1954.

(2) UNTREATED BASE ROCK COMPACTED TO 90% OF RELATIVE DENSITY.

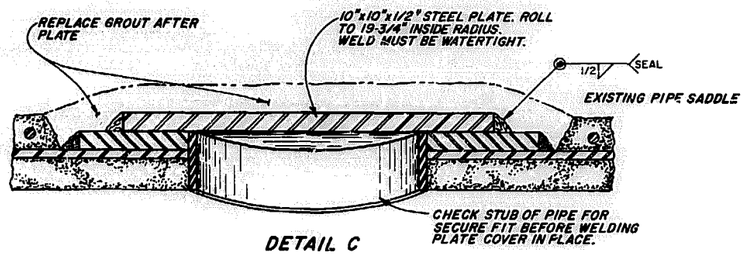
(3) EXISTING BASE

(4) SC-2 PRIMER

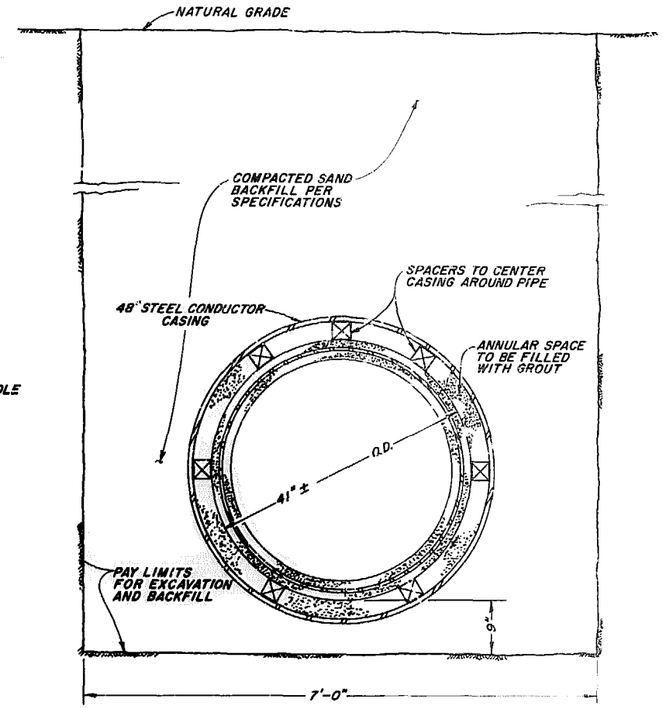
DETAIL A



DETAIL B



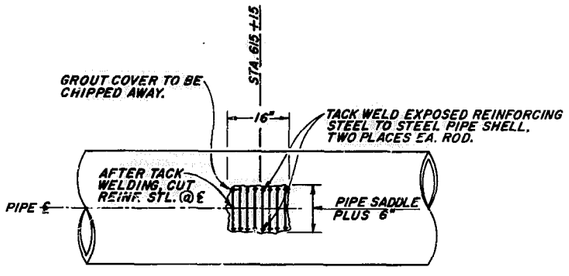
DETAIL C



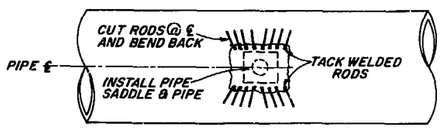
DETAIL E

* NOTE:
4" VALVE & OPERATING GEAR CASE ROTATED 90° TO BE IN LINE WITH PIPE ℄

** 4"x6" REDUCERS (AWWA STD. FL.)



STEP No. 1

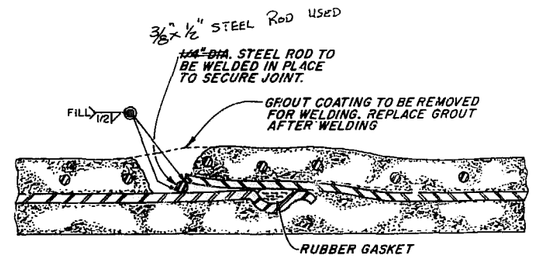


STEP No. 2

DETAIL D

SEE DETAIL A FOR STEP No. 3 & COMPLETED ASSEMBLY.

AS BUILT
Date 1-17-67
By: [signature]
1-17-65 K.P.



DETAIL F

Return to Revised Index

No.	DATE	REVISION	By

SANTA ROSA AQUEDUCT
PIPELINE ENCASEMENT EXTENSION DETAILS

SCALE: NONE
DATE: FEB. 8, 1966
APPROVED [signature] CHIEF ENGINEER RE 8271
DRAWN kwp
CHECKED R.R.C.

SONOMA COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT

DESIGNED Robert Vinson RE 14817
SUBMITTED O. J. Woodard RE 8557
DRAWING NUMBER 50-4-102.298

PRINTED ON DIEPO NO. 1035 PAPERCLOTH

URBAN RENEWAL PHASE II
AQUEDUCT RELOCATION

SECOND STREET AND U.S. HWY. 101 TO "B" STREET
SANTA ROSA CENTER PROJECT CAL-R-45

NOTES:

1. The locations of the existing underground utilities as shown on these plans are based on the best information available [illegible] the City of Santa Rosa and Engineer [illegible] for the accuracy of the information [illegible] omission of any such information. The Contractor shall [illegible] with all Utility Companies and other Contractors working within the limits of this project.
2. The Contractor shall secure all necessary encroachment permits from the City of Santa Rosa and the Sonoma County Water Agency.
3. All stations refer to street stationing.
4. Contractor shall secure a trench permit from the California Division of Industrial Safety prior to excavation of any trench over five feet in depth.
5. All trenches or hole openings shall be protected against caving either by suitable shoring, cages, or proper sloping.
6. All work and equipment shall comply with the California Division of Industrial Safety requirements.
7. Gas lines and PT&T and PG&E conduits are shown in plan view only. Verify cover and locations with utilities.

BENCH MARK

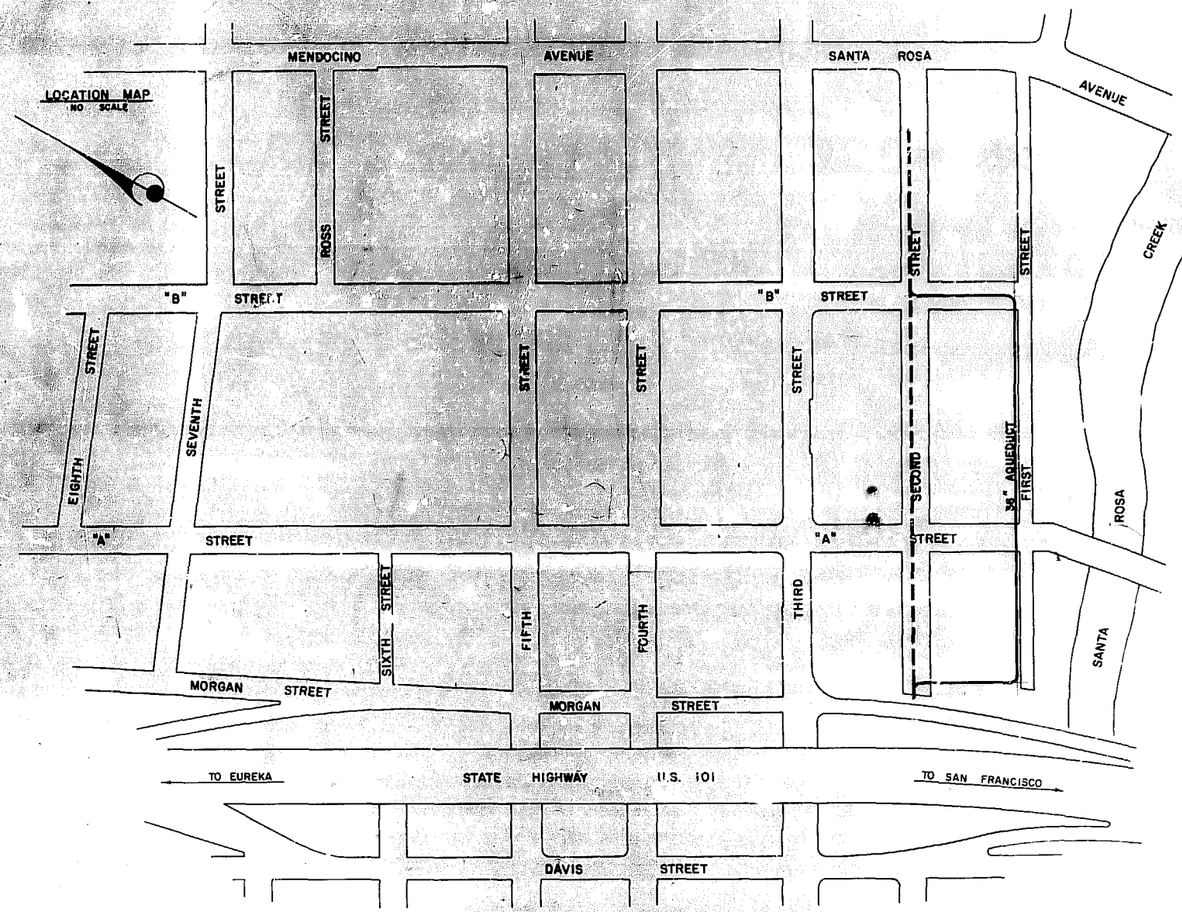
V-106-Reset 1965

At Santa Rosa at the South corner of Sixth and "A" Streets at the Santa Rosa Fire Department Headquarters Building, set vertically in the Northeast face of the South concrete pillar of five pillars on the Northeast side of the building, 102 feet Southeast of the centerline of Sixth Street, [illegible] feet Southwest of the centerline of "A" Street, [illegible] feet Northwest of the East corner of the building and 4.0 feet above the concrete pad and in front of the pillar.

1965 Elev. = 161.522

LEGEND

INDICATES	EXISTING (SCREENED)
SANITARY SEWER MANHOLE	S.M.H. ○
SANITARY SEWER CLEANOUT	CO. ○
SANITARY SEWER MAIN	12" SS
STORM DRAIN MANHOLE	SD.M.H. ○
STORM DRAIN MAIN	15" SD.
CATCH BASIN	CB □
WATER MAIN	8" W
GATE VALVE	
BLOW OFF	
FIRE HYDRANT	
UNDERGROUND TELEPHONE	T
GAS MAIN	G
UNDERGROUND POWER LINE	E
PULL BOX	P.B.
JUNCTION BOX	J.B.
POWER POLE	P.P. ○
STREET LIGHT PULL BOX	SL □
STREET LIGHT	
LIGHT STANDARDS	L.S.
TRAFFIC SIGNAL STANDARD	T.S. ○
FIRE ALARM BOX	F.A. □
PROPERTY LINE	
CITY MONUMENT	
JOINT CONDUIT SYSTEM	



INDEX

1. COVER SHEET, LOCATION MAP, INDEX, LEGEND, GENERAL NOTES
2. STA. 9+60.00 TO STA. 12+32.00
3. STA. 12+32.00 TO STA. 18+00.00
4. STA. 18+00.00 TO STA. 20+49.74 FIRST ST. = STA. 19+74.20 "B" ST.
5. STA. 17+53.84 TO STA. 19+74.20 "B" ST. = STA. 20+49.74 FIRST ST.
6. STA. 9+81.88 TO STA. 11+93.01
7. DETAILS
8. TRENCH BACKFILL DETAILS
9. DISTRIBUTION TURNOUTS TYPE A AND TYPE B (S.C.W.A. WA-2)
10. WELDED STEEL PIPE, MORTAR LINER & MORTAR OR COAL TAR COATED DETAILS (S.C.W.A. AQUEDUCT No. 1 Contract D.S. Drwgs.)
11. PIPE JOINT DESIGN
12. GALVANIC ANODES AND ELECTROLYSIS TEST STATIONS
13. HORIZONTAL BEND CONCRETE ANCHOR TYPE "C"

Return to Revised Index

APPROVED BY:
GORDON W. MILLER, CHIEF ENGINEER
SONOMA COUNTY WATER AGENCY
BY [signature] DATE 7-20 1977

APPROVED BY:
BROYDON J. RIHA, CITY ENGINEER
CITY OF SANTA ROSA
BY [signature] DATE 7-25 1977
DIRECTOR [illegible]

URBAN RENEWAL PHASE II
AQUEDUCT RELOCATION
SECOND STREET AND U.S. HWY. 101 TO "B" STREET
TITLE SHEET

REDEVELOPMENT AGENCY
OF THE CITY OF SANTA ROSA, CALIFORNIA

M. HUDIS & ASSOCIATES/CONSULTING CIVIL ENGINEERS
2100 COUNTY CENTER DRIVE, SANTA ROSA, CALIF. 95401

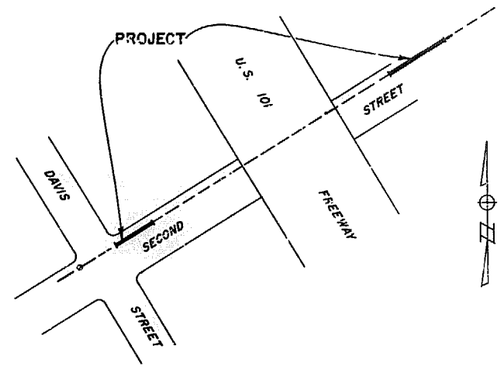
[signature]
M. HUDIS RCE 10578

SHEET 1 OF 13 SHEETS
50-4-102 29C

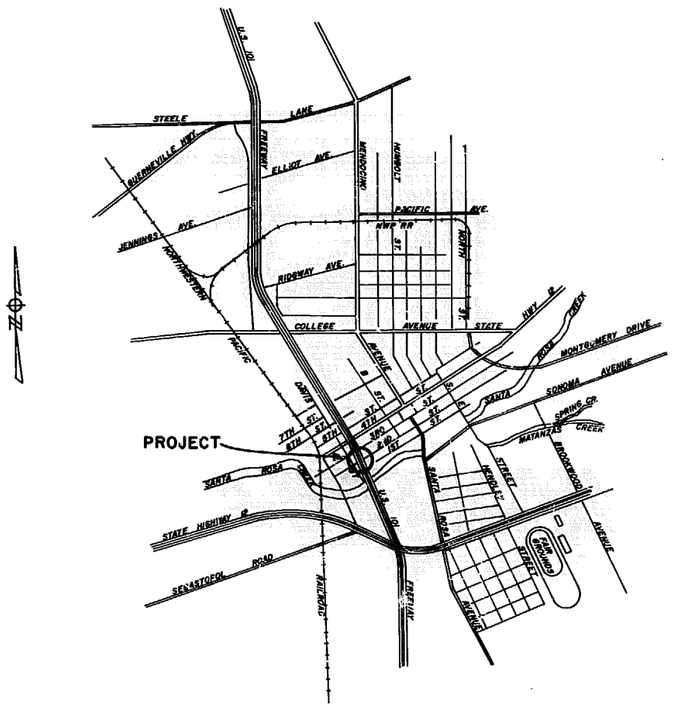
SANTA ROSA AQUEDUCT

PIPELINE ENCASEMENT EXTENSIONS

AT FREEWAY - HIGHWAY 101



SITE MAP
SCALE 1" = 60'



GENERAL LOCATION MAP

1/2 0 1/2
SCALE IN MILES

INDEX TO DRAWINGS

DRAWING NO.	TITLE
50-4-102.0.A	LOCATION MAP & INDEX
50-4-102.29.A	PLAN & PROFILE PIPELINE ENCASEMENT EXTENSIONS
50-4-102.29.B	PIPELINE ENCASEMENT EXTENSION DETAILS
50-4-102.29 C	CATHODIC PROTECTION EACH SIDE HWY 101 @ 2ND ST.

AS BUILT
Date 1-17-67
By [signature]
1-17-67 K.P.

Return to Revised Index

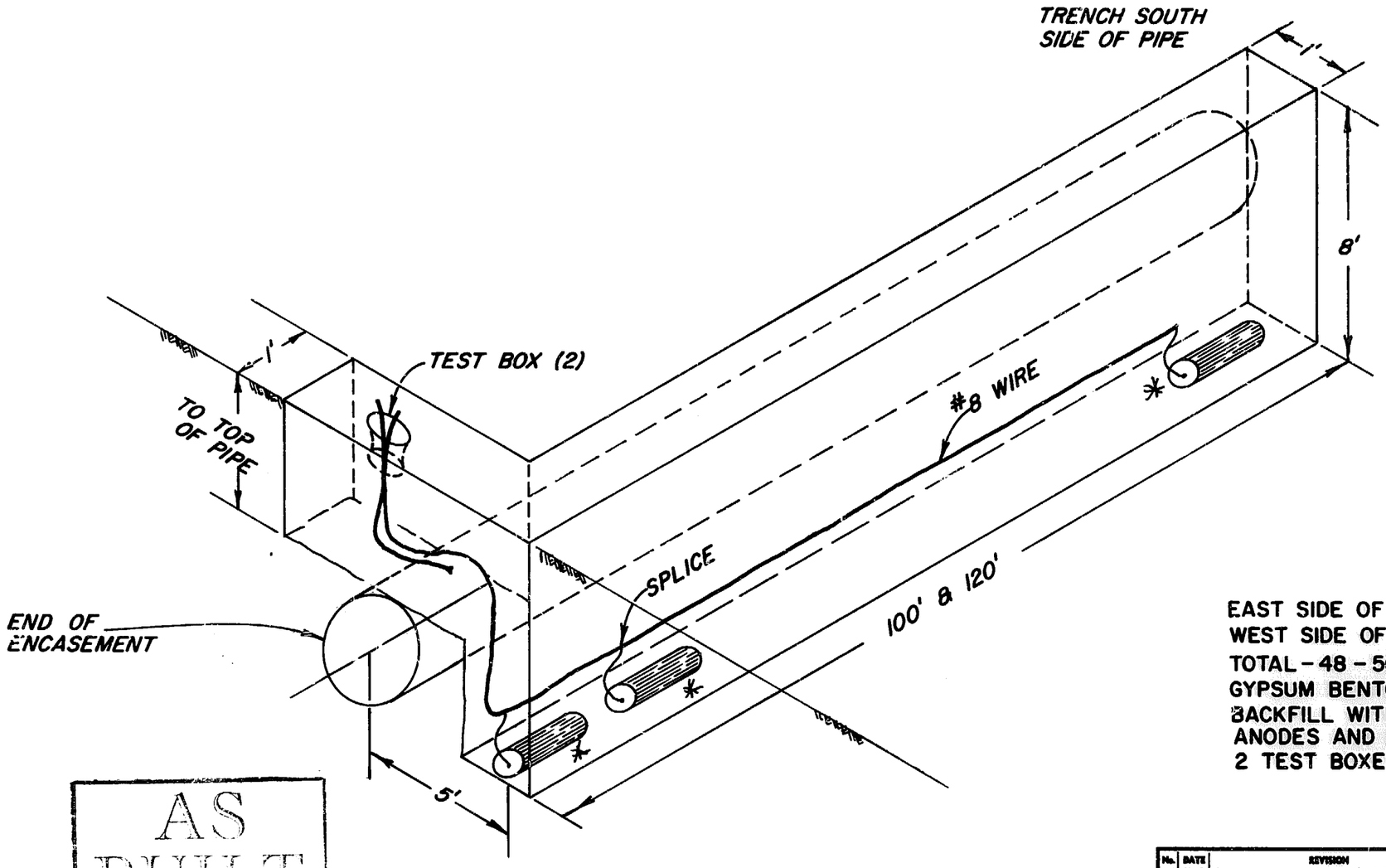
No.	DATE	REVISION	By

SANTA ROSA AQUEDUCT
PIPELINE ENCASEMENT EXTENSIONS
LOCATION MAP & INDEX

SCALE:
DATE: FEB. 8, 1966
APPROVED [signature] CHIEF ENGINEER RE8271
DRAWN RM
CHECKED [signature]

SONOMA COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT

DESIGNED
SUBMITTED O.S. Woodard RE8557
DRAWING NUMBER 50-4-102.0.A



*NOTE: ANODES ARE AT SAME ELEV. AS TOP OF ENCASEMENT

EAST SIDE OF FREEWAY (U.S. 101) -100' -22 ANODES
WEST SIDE OF FREEWAY (U.S. 101)- 120' -26 ANODES
TOTAL - 48 - 50# ANODES. BACKFILL EACH WITH 50# GYPSUM BENTONITE.
BACKFILL WITH COMPACTED NATURAL SOIL 2' ABOVE ANODES AND REMAINDER WITH CONSOLIDATED SAND.
2 TEST BOXES & 2 BELL HOLES.

Return to Revised Index

AS BUILT
Date 1-17-67
By: [signature]
1-17-67 K.P.

EXHIBIT A

No.	DATE	REVISION	By

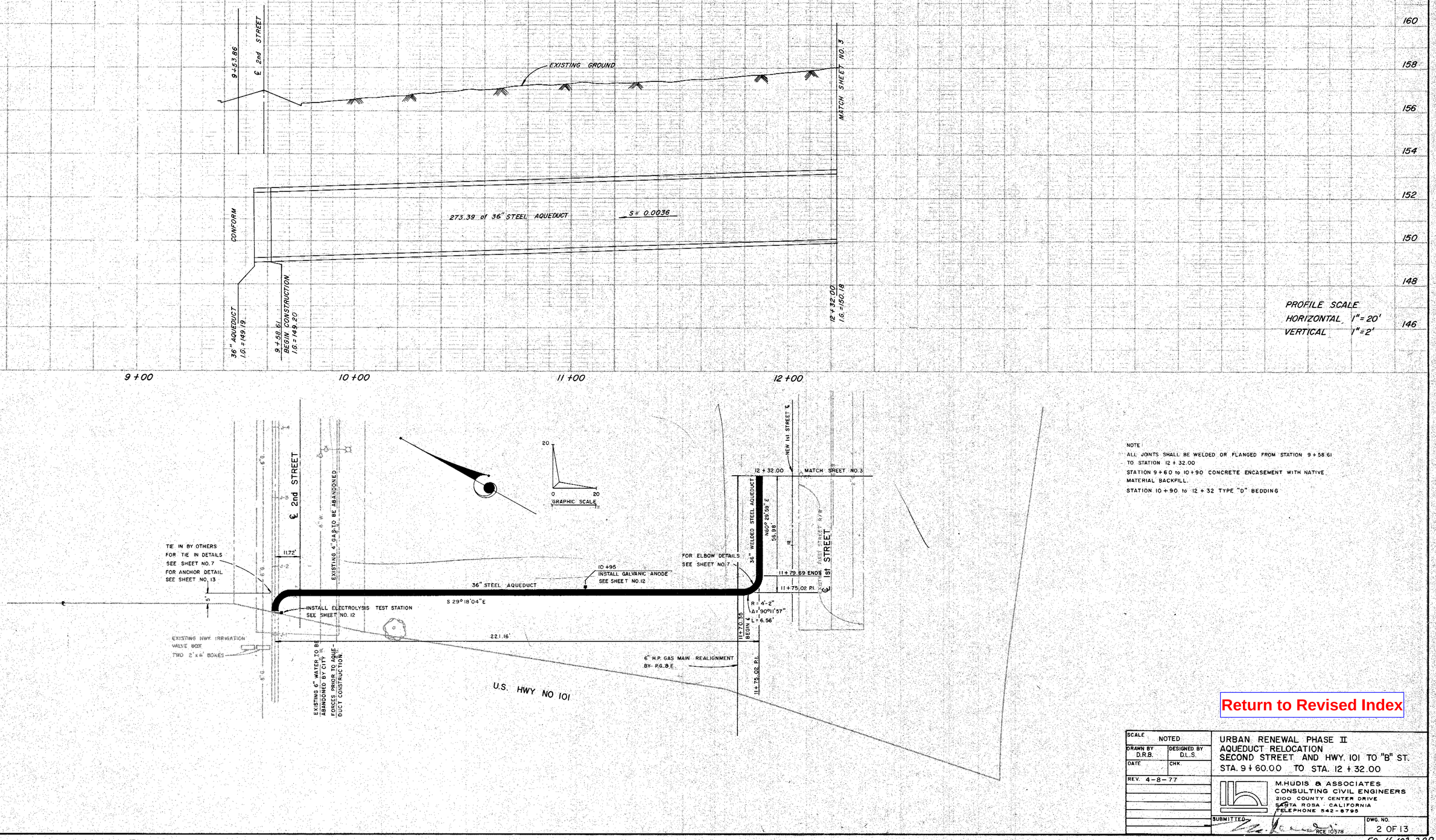
SANTA ROSA AQUEDUCT
CATHODIC PROTECTION
EACH SIDE HIGHWAY 101 AT 2ND STREET

SCALE: NONE | APPROVED: [signature] CHIEF ENGINEER | DRAWN SKMc K.P.P.
DATE: 3/24/66

SONOMA COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT

DESIGNED [signature] | CHECKED O.J.W. | DRAWING NUMBER 50-4-102.29C

PRINTED ON DIEPO NO. 1025 PAPERCLOTH

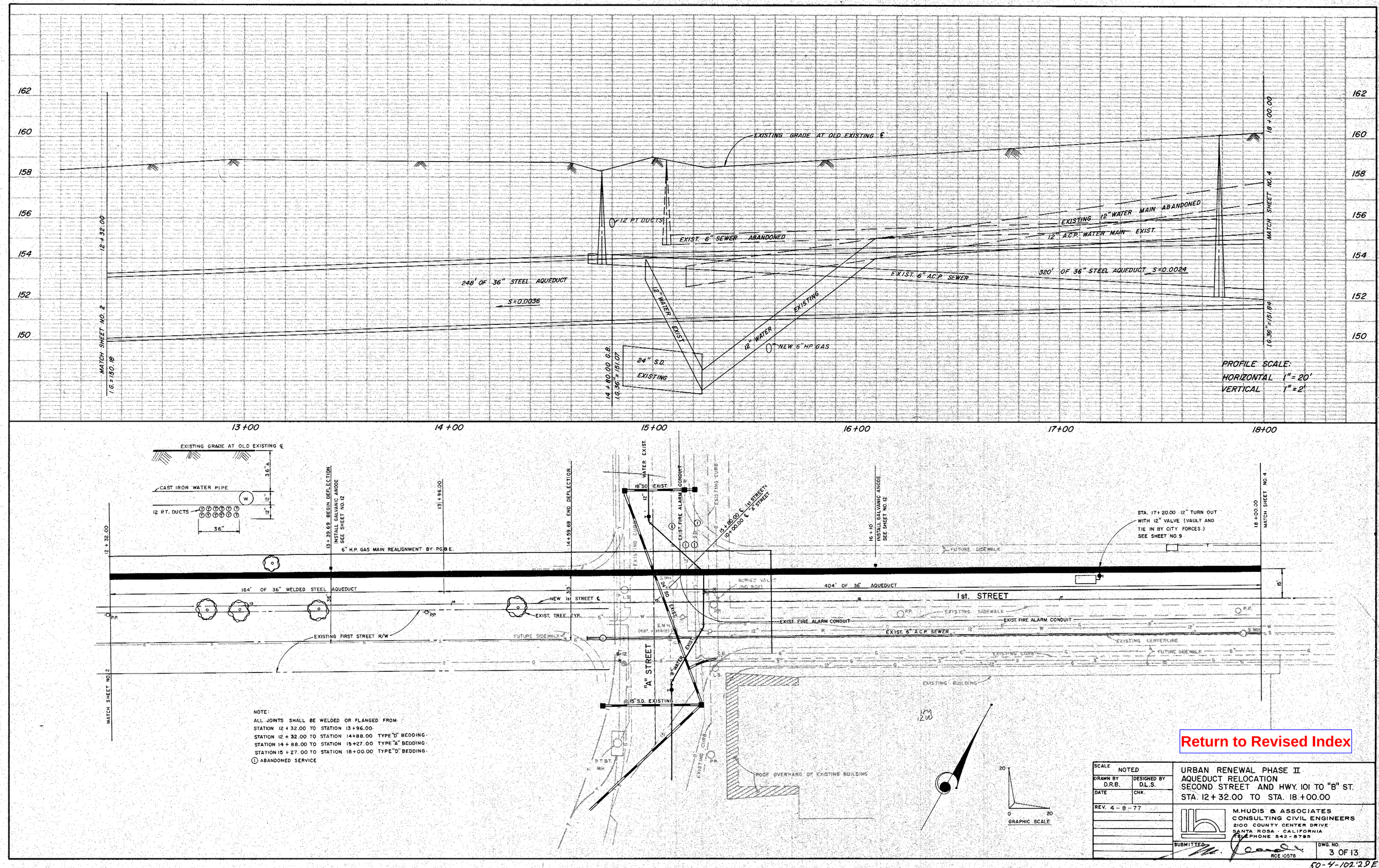


NOTE:
ALL JOINTS SHALL BE WELDED OR FLANGED FROM STATION 9+58.61 TO STATION 12+32.00
STATION 9+60 to 10+90 CONCRETE ENCASEMENT WITH NATIVE MATERIAL BACKFILL.
STATION 10+90 to 12+32 TYPE "D" BEDDING

Return to Revised Index

SCALE NOTED	URBAN RENEWAL PHASE II AQUEDUCT RELOCATION SECOND STREET AND HWY. 101 TO "B" ST. STA. 9+60.00 TO STA. 12+32.00
DRAWN BY D.R.B. / DESIGNED BY D.L.S.	
DATE / CHK.	
REV. 4-8-77	M. HUDIS & ASSOCIATES CONSULTING CIVIL ENGINEERS 2100 COUNTY CENTER DRIVE SANTA ROSA · CALIFORNIA TELEPHONE 542-6795
SUBMITTED RCE 10578	DWG. NO. 2 OF 13

50-4-102.290



NOTE:
ALL JOINTS SHALL BE WELDED OR FLANGED FROM
STATION 12 + 32.00 TO STATION 13+96.00 -
STATION 12 + 32.00 TO STATION 14+88.00 TYPE "D" BEDDING -
STATION 14 + 88.00 TO STATION 15+27.00 TYPE "A" BEDDING -
STATION 15 + 27.00 TO STATION 18+00.00 TYPE "D" BEDDING -
(1) ABANDONED SERVICE

Return to Revised Index

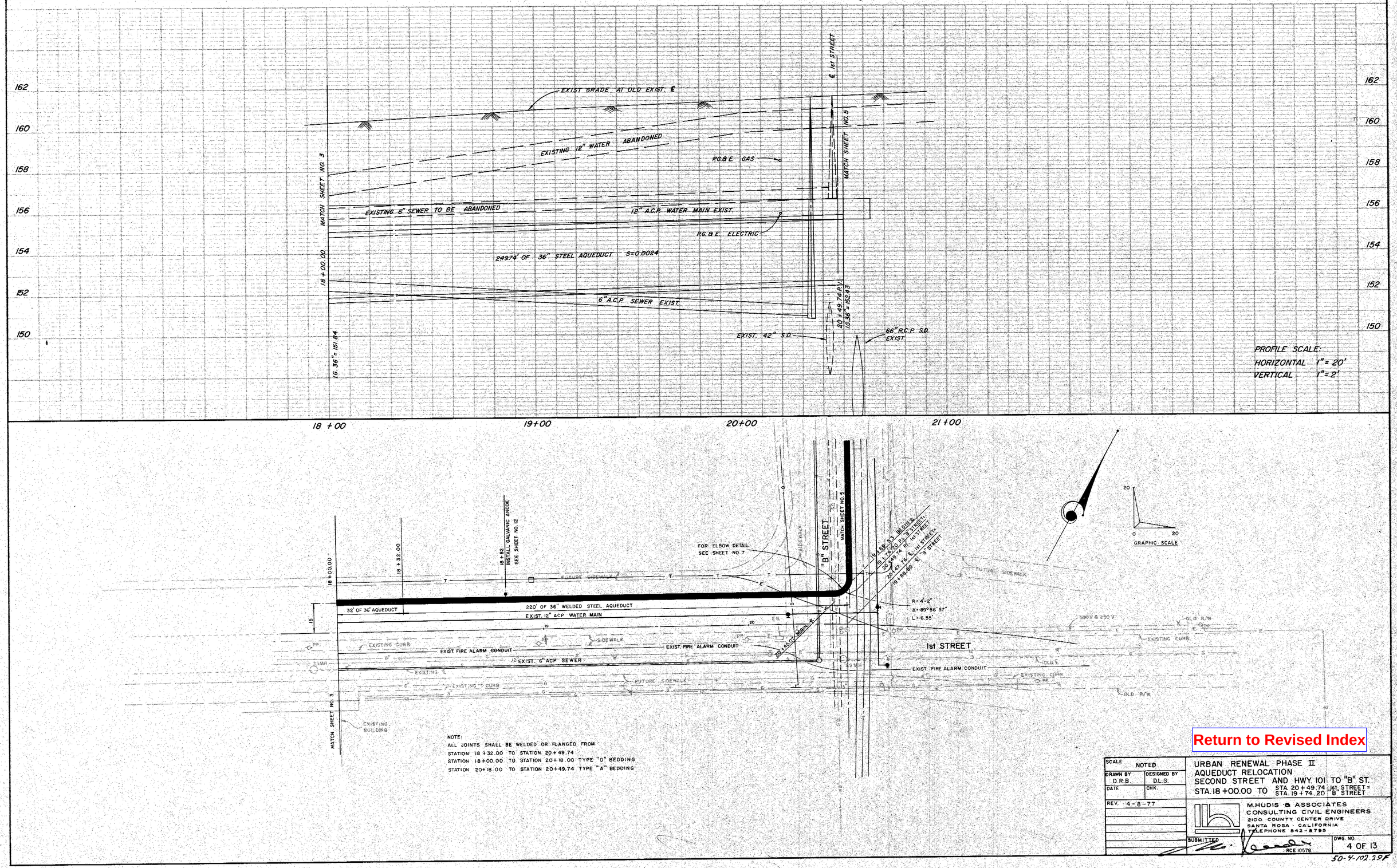
SCALE NOTED	URBAN RENEWAL PHASE II AQUEDUCT RELOCATION SECOND STREET AND HWY. 101 TO "B" ST. STA. 12+32.00 TO STA. 18+00.00
DRAWN BY D.R.B. / DESIGNED BY D.L.S.	
DATE / CHK.	
REV. 4-8-77	

M. HUDIS & ASSOCIATES
CONSULTING CIVIL ENGINEERS
2100 COUNTY CENTER DRIVE
SANTA ROSA · CALIFORNIA
TELEPHONE 542-8795

SUBMITTED
RCE 10578

DWG. NO. 3 OF 13

50-4-102.29E

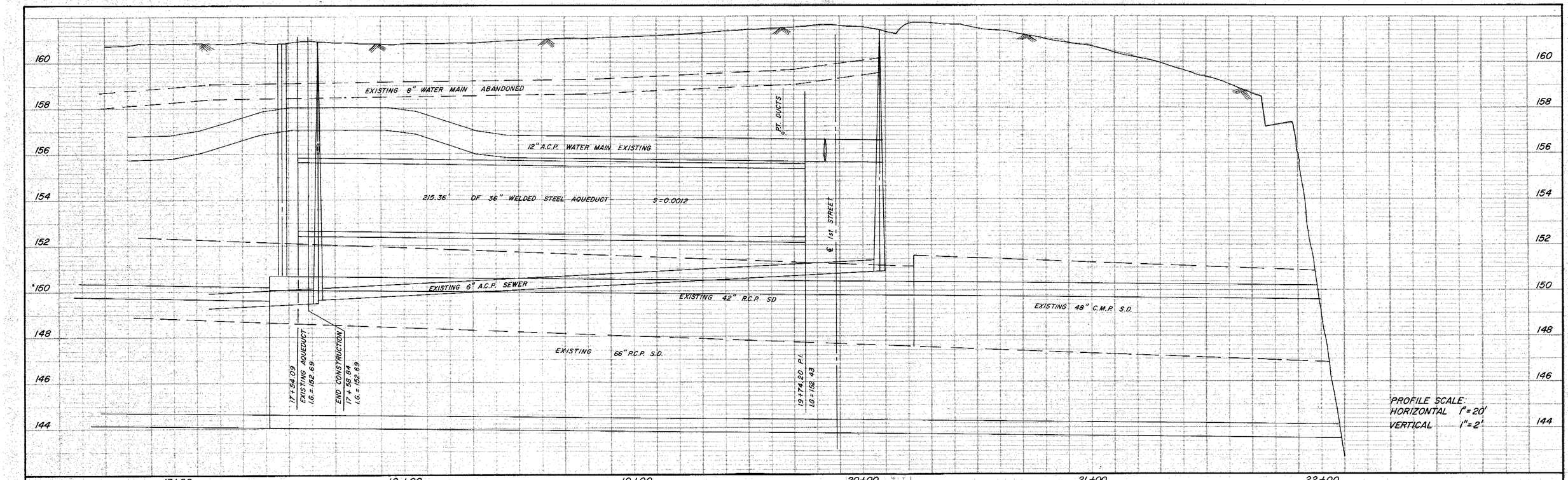


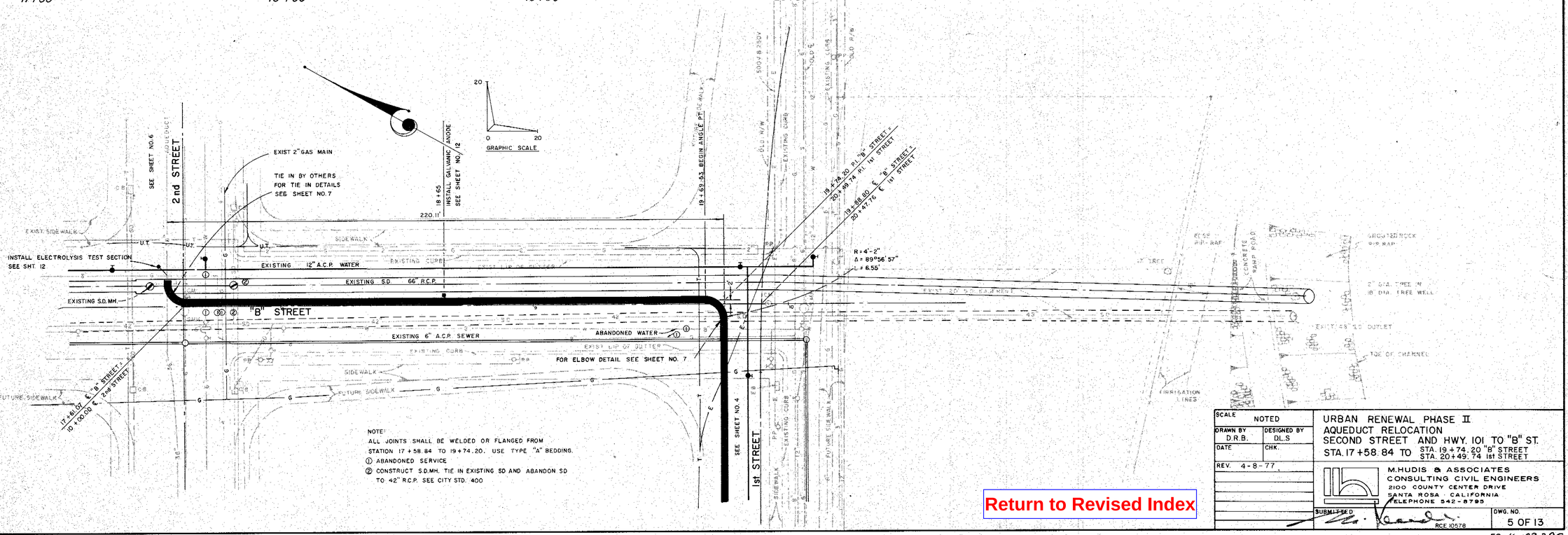
NOTE:
ALL JOINTS SHALL BE WELDED OR FLANGED FROM
STATION 18+32.00 TO STATION 20+49.74
STATION 18+00.00 TO STATION 20+18.00 TYPE "D" BEDDING
STATION 20+18.00 TO STATION 20+49.74 TYPE "A" BEDDING

Return to Revised Index

SCALE NOTED	URBAN RENEWAL PHASE II AQUEDUCT RELOCATION SECOND STREET AND HWY. 101 TO "B" ST. STA. 18+00.00 TO STA. 20+49.74 1st. STREET = STA. 19+74.20 "B" STREET
DRAWN BY D.R.B. / DESIGNED BY D.L.S.	
DATE / CHK.	
REV. 4-8-77	M. HUDIS & ASSOCIATES CONSULTING CIVIL ENGINEERS 2100 COUNTY CENTER DRIVE SANTA ROSA · CALIFORNIA TELEPHONE 542-8795
SUBMITTED RCE 10578	DWG. NO. 4 OF 13

50-4-102.29F





NOTE:
ALL JOINTS SHALL BE WELDED OR FLANGED FROM STATION 17+58.84 TO 19+74.20. USE TYPE "A" BEDDING.
① ABANDONED SERVICE
② CONSTRUCT S.D.MH. TIE IN EXISTING SD AND ABANDON SD TO 42" R.C.P. SEE CITY STD. 400

Return to Revised Index

SCALE	NOTED
DRAWN BY D.R.B.	DESIGNED BY D.L.S
DATE	CHK.
REV. 4-8-77	

URBAN RENEWAL PHASE II
AQUEDUCT RELOCATION
SECOND STREET AND HWY. 101 TO "B" ST.
STA. 17+58.84 TO STA. 19+74.20 "B" STREET
STA. 20+49.74 1st STREET

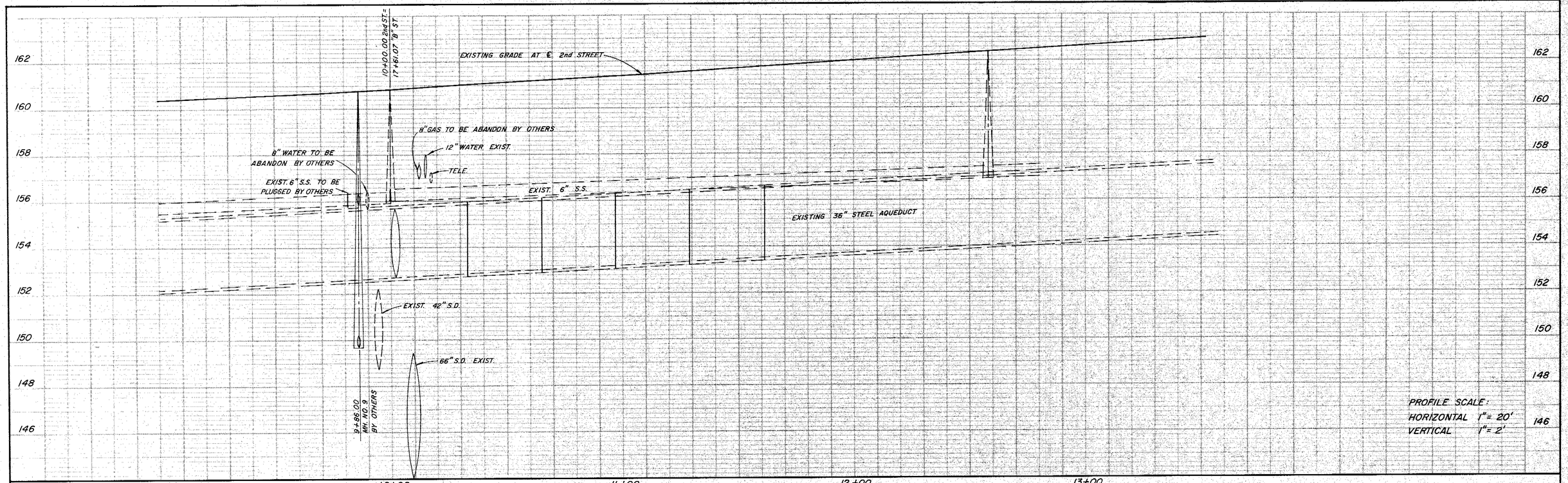
M. HUDIS & ASSOCIATES
CONSULTING CIVIL ENGINEERS
2100 COUNTY CENTER DRIVE
SANTA ROSA CALIFORNIA
TELEPHONE 542-8795

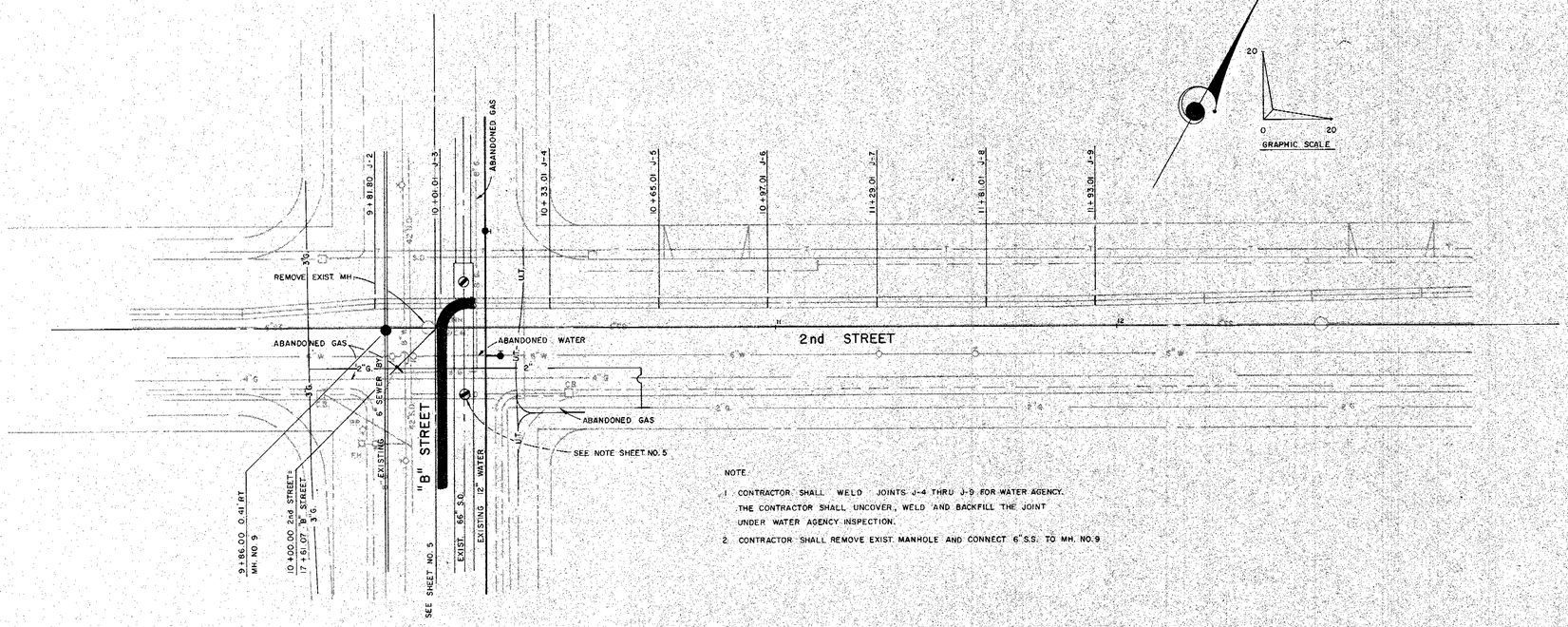
SUBMITTED
RCE 10578

DWG. NO. 5 OF 13

CH. 13-48

50-4-102.296





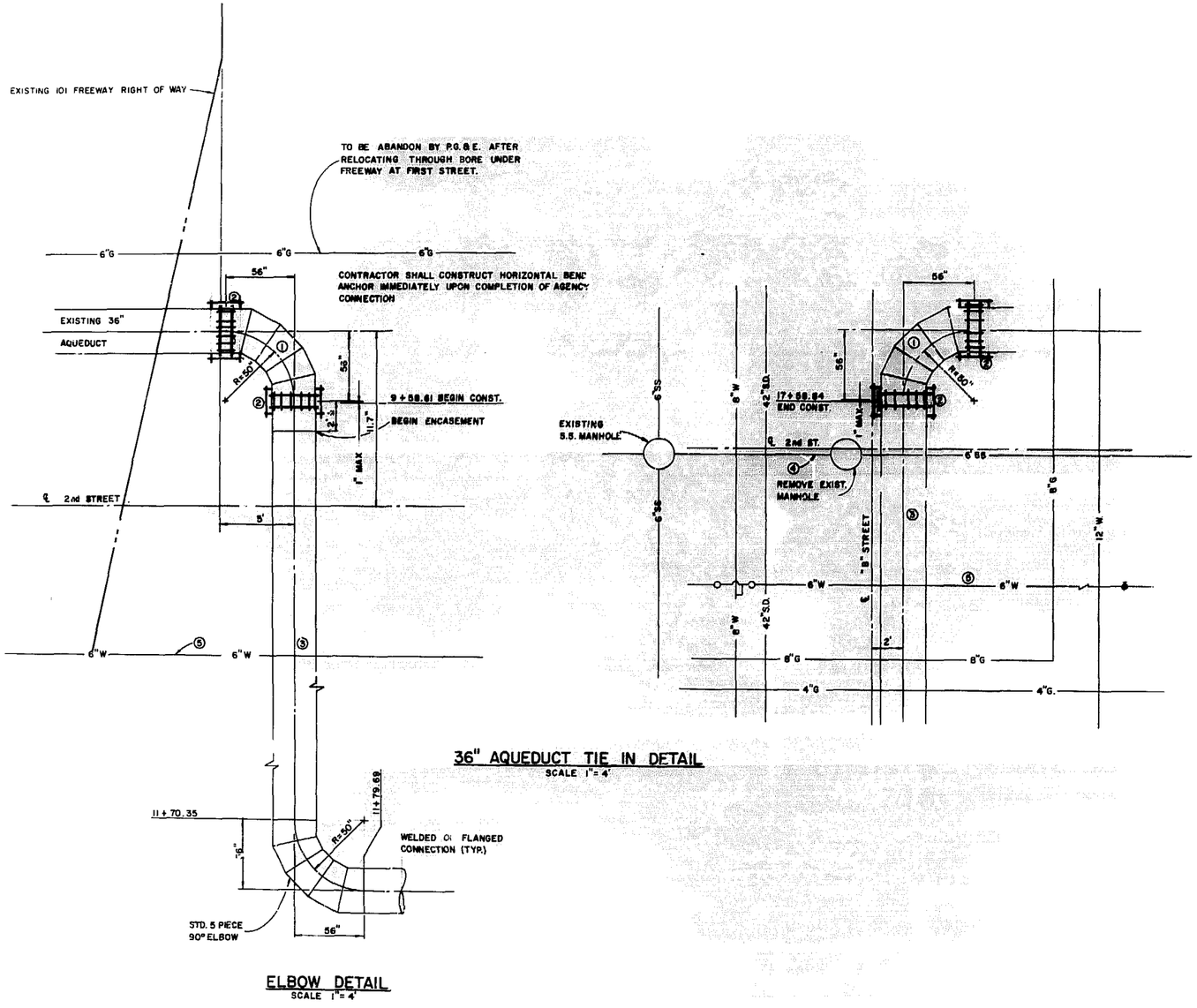
NOTE

1. CONTRACTOR SHALL WELD JOINTS J-4 THRU J-9 FOR WATER AGENCY. THE CONTRACTOR SHALL UNCOVER, WELD AND BACKFILL THE JOINT UNDER WATER AGENCY INSPECTION.
2. CONTRACTOR SHALL REMOVE EXIST. MANHOLE AND CONNECT 6" S.S. TO MH. NO. 9

Return to Revised Index

SCALE NOTED	URBAN RENEWAL PHASE II AQUEDUCT RELOCATION SECOND STREET AND HWY. 101 TO "B" ST. STA. 9+81.80 TO STA. 11+93.01 2nd ST.
DRAWN BY D.R.B. / DESIGNED BY D.L.S.	
DATE / CHK.	
REV. 4-8-77	
	M. HUDIS & ASSOCIATES CONSULTING CIVIL ENGINEERS 2100 COUNTY CENTER DRIVE SANTA ROSA · CALIFORNIA TELEPHONE 542-8795
SUBMITTED RCE 10578	DWG. NO. 6 OF 13

50-4-102.29H



36" AQUEDUCT TIE IN DETAIL
SCALE 1"=4'

ELBOW DETAIL
SCALE 1"=4'

NOTES:

① ELBOW TIE-IN INSTALLATION BY WATER AGENCY. THE CONTRACTOR SHALL [illegible] THE FABRICATED ELBOW AND COUPLINGS, AND EXCAVATE FOR INSTALLATION. UPON COMPLETION OF AGENCY CONNECTION THE CONTRACTOR SHALL COMPLETE BACKFILL.

② SMITH BLAIR 415 REDUCING COUPLING OR EQUAL WITH ANCHOR STUDS FURNISHED CONTRACTOR INSTALLED BY WATER AGENCY. TIE BOLTS AS PER AWWA M11 PIPE MANUAL, COUPLING WITH ANCHOR STUDS TO BE FURNISHED BY THE CONTRACTOR TO MATCH NEW TO EXISTING.

③ 36" AQUEDUCT FURNISHED AND INSTALLED BY THE CONTRACTOR COMPLETE IN PLACE INCLUDING FABRICATED ELBOWS, TESTING, CHLORINATION AND BACKFILL.

④ CONTRACTOR SHALL REMOVE EXISTING MANHOLE AND 6" SEWER AS NECESSARY FOR THE TIE-IN INSTALLATION. UPON COMPLETION OF THE TIE-IN, THE CONTRACTOR SHALL CONNECT THE 6" SEWER TO THE EXISTING STUB PROVIDED AT THE MANHOLE.

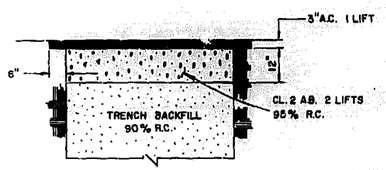
⑤ EXISTING 6" WATER TO BE ABANDONED BY CITY FORCES AFTER [illegible]

Return to Revised Index

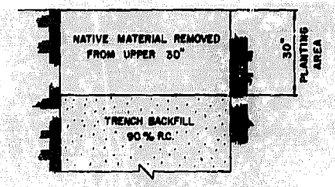
SCALE NOTED	URBAN RENEWAL PHASE II AQUEDUCT RELOCATION SECOND STREET AND HWY. 101 TO "B" ST. DETAILS
DRAWN BY D.R.B. / DESIGNED BY D.L.S.	
DATE / CHK PHASE II	
REV 4-8-77	M. HUDIS & ASSOCIATES CONSULTING CIVIL ENGINEERS 2100 COUNTY CENTER DRIVE SANTA [illegible] CALIFORNIA TELEPH 542-0795
SUBMITTED RCE 10578	DWG. NO 7 OF 13

50-4-102.26 I

24X



PIPE BEDDING
TYPE A
NO SCALE



PIPE BEDDING
TYPE D
(STA. 9+70.66 TO 14+80.00)
NO SCALE

NOTES:

MATERIAL SPECIFICATIONS

DRAIN ROCK SHALL BE EITHER OF THE NOMINAL SIZES DESIGNATED AS 1 1/2" BY 3/4" OR 2 1/2" BY 1 1/2".

PIPE BEDDING AND TRENCH BACKFILL MATERIALS SHALL HAVE A MINIMUM SAND EQUIVALENT VALUE OF 30 AND SHALL CONFORM TO THE FOLLOWING GRADINGS:

	PERCENT PASSING			
	3"	1"	3/4"	NO. 4
PIPE BEDDING		100	95-100	55-100
TRENCH BACKFILL	100			65-100

PEA GRAVEL MAY BE USED FOR BEDDING MATERIAL ONLY WHEN PERMITTED BY THE SPECIAL PROVISIONS.

AGGREGATE BASE SHALL CONFORM TO THE REQUIREMENTS OF THE STANDARD SPECIFICATIONS OF THE STATE OF CALIFORNIA FOR EITHER 1 1/2" MAX. OR 3/4" MAX. CLASS 2 AGGREGATE BASE. ASPHALT CONCRETE SHALL CONFORM TO THE REQUIREMENTS OF THE STANDARD SPECIFICATIONS OF THE STATE OF CALIFORNIA FOR TYPE B - 1/2" MEDIUM ASPHALT CONCRETE. BITUMINOUS BINDER SHALL BE 85-100 PENETRATION PAVING ASPHALT.

NATIVE MATERIAL SHALL NOT CONTAIN ROCKS LARGER THAN 3" IN LEAST DIMENSION.

COMPACTION REQUIREMENTS:

DRAIN ROCK SHALL BE CONSOLIDATED WITH A SURFACE VIBRATOR.

PIPE BEDDING MATERIAL USED TO GRADE THE TRENCH SHALL BE CONSOLIDATED WITH A SURFACE VIBRATOR WHEN IT IS PLACED OVER DRAIN ROCK OR WHEN DEPTH IS GREATER THAN 6".

PIPE BEDDING MATERIAL SHALL EITHER BE HAND TAMPED UNDER AND AT THE SIDES OF THE PIPE IN LIFTS NOT GREATER THAN 6" OR JETTED WITH INITIAL PLACEMENT OF BEDDING TO A POINT BETWEEN SPRING-LINE AND TOP OF PIPE.

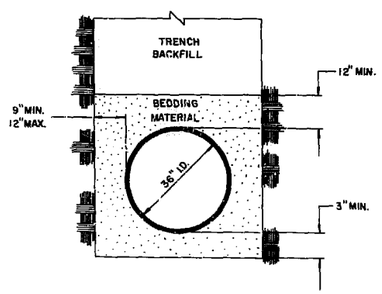
PIPE BEDDING MATERIAL ABOVE SPRING-LINE OF PIPE SHALL BE COMPACTED TO 90% RELATIVE COMPACTION PRIOR TO PLACING TRENCH BACKFILL WHEN BACKFILL IS TO BE COMPACTED BY MEANS OTHER THAN JETTING.

PEA GRAVEL SHALL BE COMPACTED UNDER AND AT THE SIDES OF THE PIPE WITH INTERNAL VIBRATORS AND THE UPPER PORTION MAY BE COMPACTED WITH INTERNAL OR SURFACE VIBRATOR.

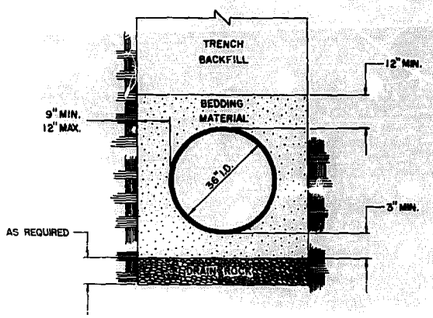
TRENCH BACKFILL MAY BE COMPACTED BY JETTING IN LIFTS NOT GREATER THAN 10 FEET WHEN SOIL CONDITIONS PERMIT WATER TO DRAIN QUICKLY, AS DETERMINED BY THE CITY ENGINEER. JETTING WILL NOT BE PERMITTED WITHIN 2 FEET OF FINISH GRADE. WHEN COMPACTION IS OBTAINED BY JETTING, THE UPPER SURFACE OF TRENCH BACKFILL SHALL BE THOROUGHLY WHEEL-ROLLED WITH SUITABLE CONSTRUCTION EQUIPMENT. TRENCH BACKFILL SHALL BE COMPACTED TO 90% RELATIVE COMPACTION PRIOR TO PLACING BASE ROCK OR SUBGRADE MATERIAL OVER THE TRENCH.

NATIVE MATERIAL MAY NOT BE COMPACTED BY JETTING.

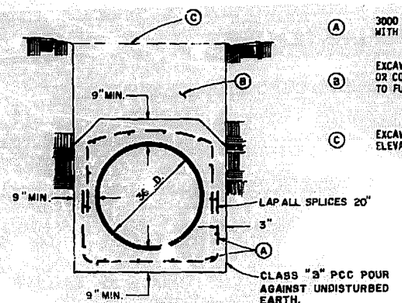
TYPE A BEDDING SHALL BE USED IN AREAS WHERE THERE IS EXISTING PAVEMENT. ALL OTHER AREAS SHALL BE TYPE D.



STABLE TRENCH
NO SCALE



UNSTABLE TRENCH
NO SCALE



CONCRETE ENCASEMENT
NO SCALE

(A) 3000 LBS. MINIMUM CONCRETE REINFORCED WITH NO. 5 BARS AT 12" CENTERS EACH WAY

(B) EXCAVATED OR IMPORTED MATERIAL COMPACTED OR CONSOLIDATED TO 90% RELATIVE DENSITY TO FULL HEIGHT OF TRENCH.

(C) EXCAVATED AREA GRADED SMOOTHLY TO MATCH ELEVATION AT ADJACENT GROUND

Return to Revised Index

SCALE: NOTED	URBAN RENEWAL PHASE II AQUEDUCT RELOCATION SECOND STREET AND HWY 101 TO "B" ST. TRENCH BACKFILL DETAILS
DRAWN BY: D.R.B. / DESIGNED BY: D.L.S.	
DATE: / CHK.	
REV. 4-8-77	
SUBMITTED: RCE 10578	M. HUDIS & ASSOCIATES CONSULTING CIVIL ENGINEERS 800 COUNTY CENTER DRIVE SANTA ROSA CALIFORNIA TELEPHONE 542-9788
	DWG. NO. 8 OF 13

50-H-102.2PJ

24X

PLATE 1 - PLAN - PROFILE - F.A.S.
CLEARPRINT PAPER CO., S. F. CAL.
No. 1000H-1

Return to Revised Index

Approved Robert Van Gueipen
Robert Van Gueipen
City Engineer
City of Santa Rosa

No.	DATE	REVISION	By
1	8/81	See Dwg No. 50-4-102.29 for info	

FRANK B. SARLES
CONSULTING CIVIL ENGINEER – SANTA ROSA, CALIFORNIA

APPROVED Frank B. Sarles R.C.E. 5951

DRAWN BY M.N.-J.R.-J.B. CHECKED BY RMR DATE AUGUST, 1957

RUSSIAN RIVER AQUEDUCT No. 1
Sta. 626+00 to Sta. 638+25

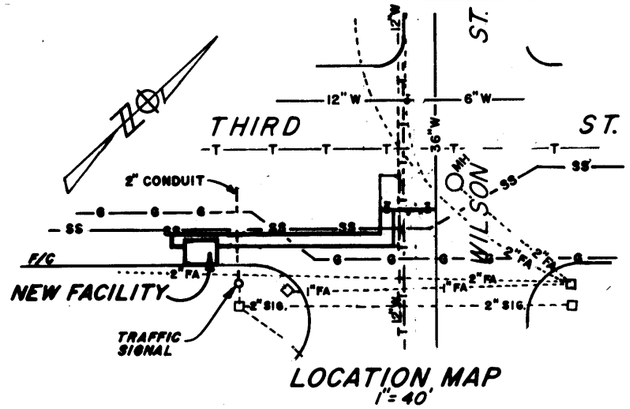
SCALE: APPROVED Gordon W. Miller CHIEF ENGINEER DRAWN
DATE:

SONOMA COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT

DESIGNED CHECKED DRAWING NUMBER 50-4-102.30

CORRECTED 5-23-57

36" Water Main Sheet 10 of 13 Scale 1

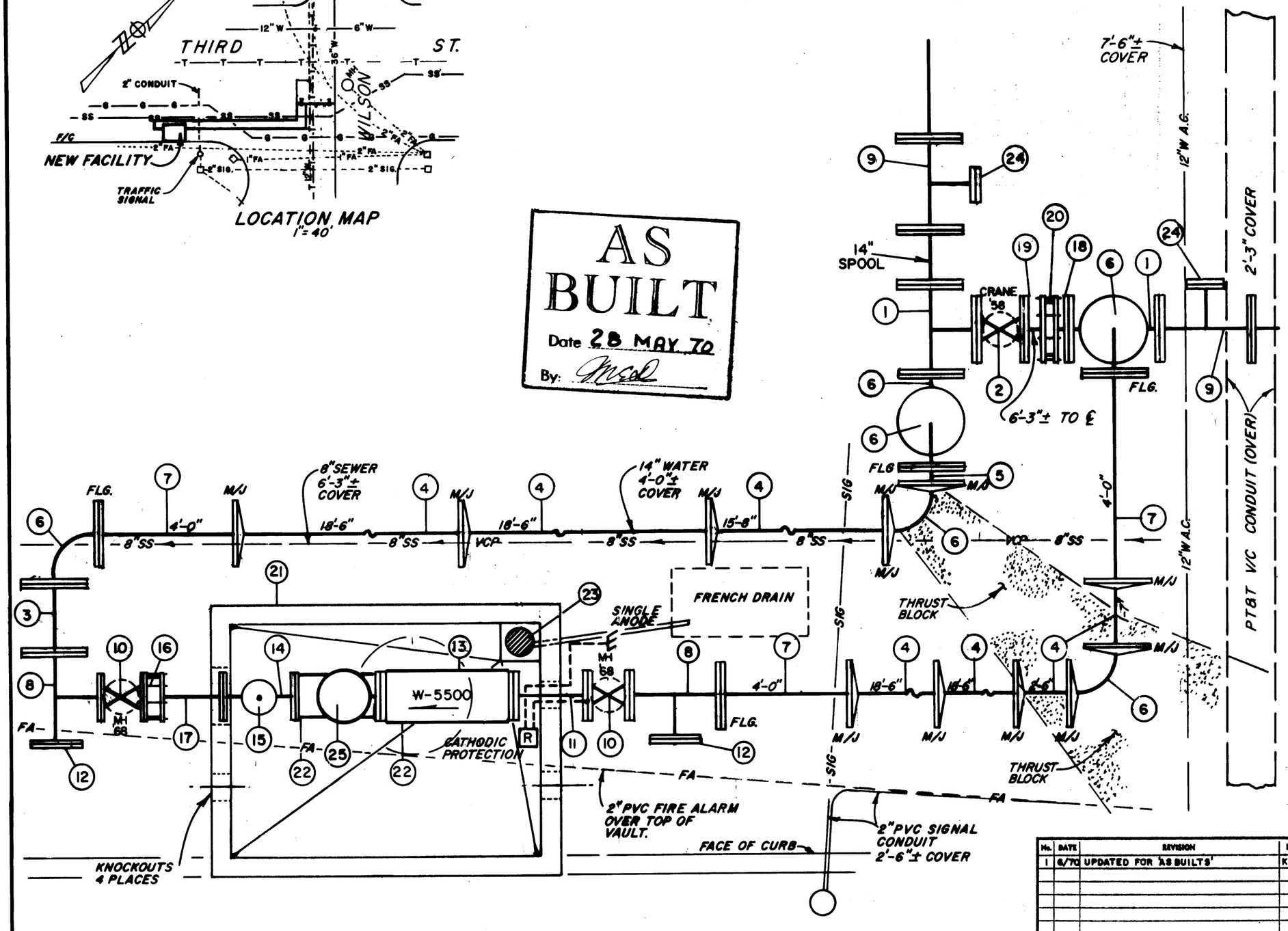


LOCATION MAP
1"=40'

AS BUILT
Date 28 MAY 70
By:

SCHEDULE OF MATERIALS

1	14"x14"x14" TEE. (2 REQ'D)
2	14" GATE VALVE
3	14"x1'-9" PIPE FBE
4	14" PIPE, MISC. LENGTHS SEE PLAN
5	14"x0'-7-1/2" PIPE FOE
6	14"x14" 90° ELL (4 FLG) (2 M/J)
7	14"x4'-0" FOE (3 REQ'D)
8	14"x10"x10" TEE (2 REQ'D)
9	14"x14"x8" TEE
10	10" GATE VALVE (2 REQ'D)
11	10"x1'-10" PIPE FBE
12	10" BLIND FLANGE (2 REQ'D)
13	10" ROCKWELL METER W-5500 (BY DISTRICT)
14	10"x10"x6" TEE
15	6" BLIND FLANGE
16	10" FLANGE x PLAIN END, FLANGED COUPLING ADAPTOR, SMITH-BLAIR No. 912-10-1110
17	10"x2'-9" PIPE FOE
18	14"x0'-5" PIPE FOE
19	14"x0'-7-1/2" PIPE FOE
20	14" COUPLING, DRESSER, ALTERED TO FIT
21	6'-0"x8'-0" PRE-CAST VAULT, BROOKS 850
22	PIPE SUPPORTS AS REQ'D
23	FLOOR DRAIN, JOSAM No. 5422, SEE DWG. No. DS-143
24	8" BLIND FLANGE (2 REQ'D)
25	10" PRESSURE REDUCER AND CHECK VALVE, BAILEY No. 400-C



Return to Revised Index

N-5

S.R. STA. 609+00

No.	DATE	REVISION	By
1	6/70	UPDATED FOR 'AS BUILTS'	KP

WATER METER INSTALLATION THIRD ST. & WILSON ST. SANTA ROSA

SCALE: 3/8"=1-0"
DATE: NOV. 14, '68
APPROVED Gordon W. Mills CHIEF ENGINEER
DRAWN kwp K.P.P.

SONOMA COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT

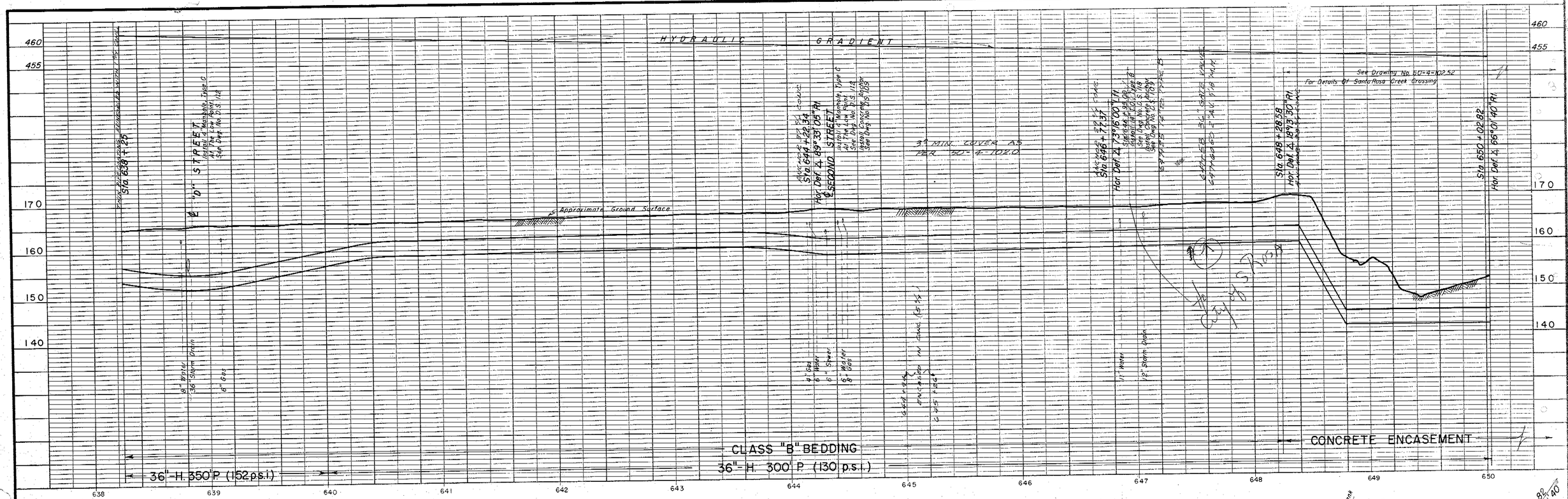
DESIGNED
DRAWING NUMBER 50-2-102.16

PRINTED ON DIEPO NO. 1028 PAPERCLOTH

MICROFILMED

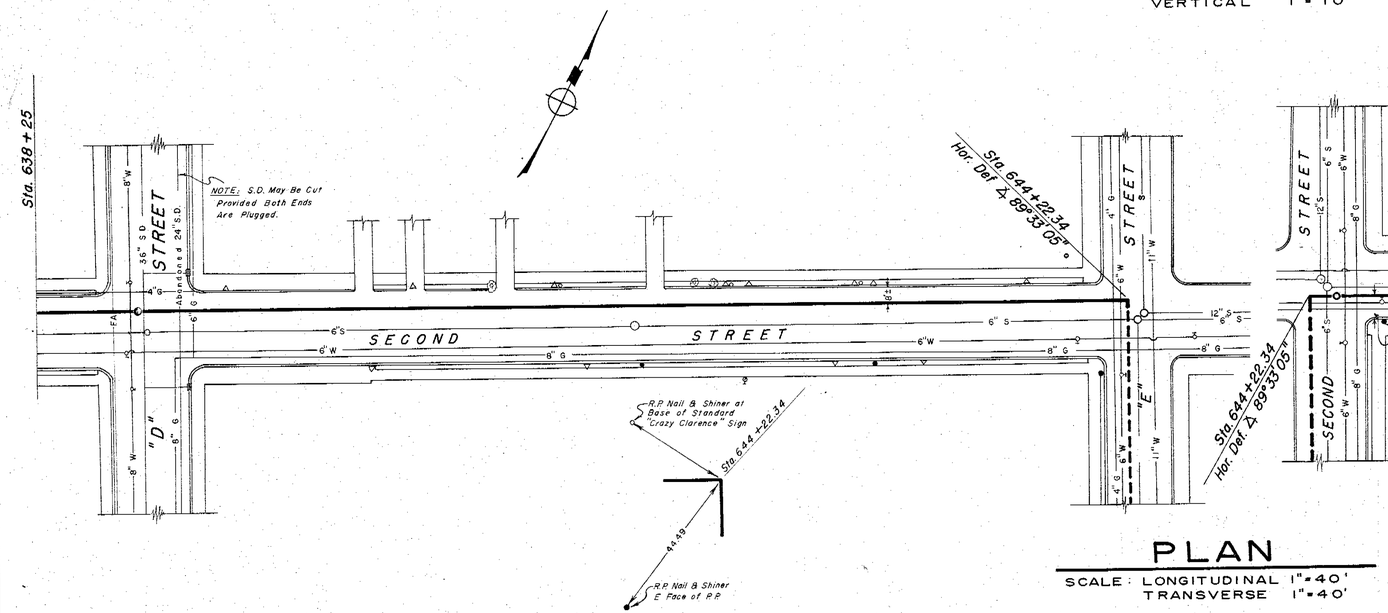
PH11-4D

PLATE 1. PLAN-PROFILE-F.A.S.
CLEARPRINT PAPER CO. S. F. CAL.
No. 1000H-1



PROFILE

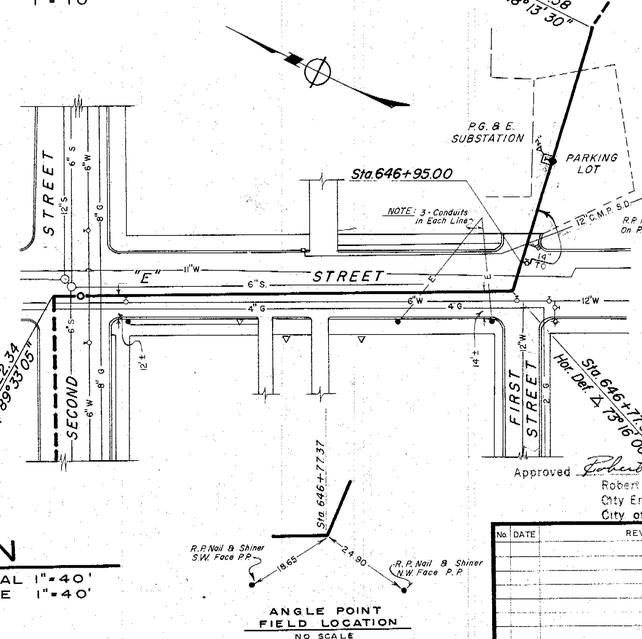
SCALE: HORIZONTAL 1"=40'
VERTICAL 1"=10'



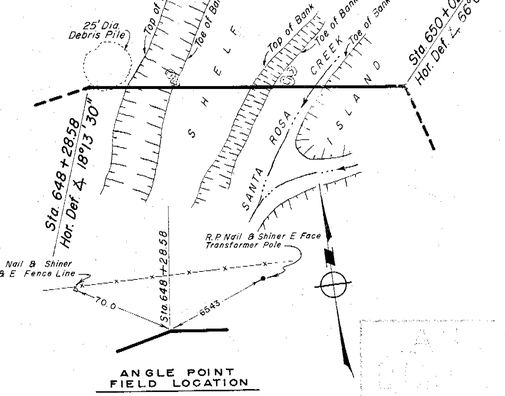
ANGLE POINT
FIELD LOCATION
NO SCALE

PLAN

SCALE: LONGITUDINAL 1"=40'
TRANSVERSE 1"=40'



ANGLE POINT
FIELD LOCATION
NO SCALE



ANGLE POINT
FIELD LOCATION
NO SCALE

Return to Revised Index

FRANK B. SARLES
CONSULTING CIVIL ENGINEER - SANTA ROSA, CALIFORNIA

APPROVED Frank B Sarles R.C.E. 595

DRAWN BY M.N.-J.R.-J.B. | CHECKED BY | DATE AUGUST, 195

Approved Robert Van Guelpen
Robert Van Guelpen
City Engineer
City of Santa Rosa

No.	DATE	REVISION	By

RUSSIAN RIVER AQUEDUCT No. 1

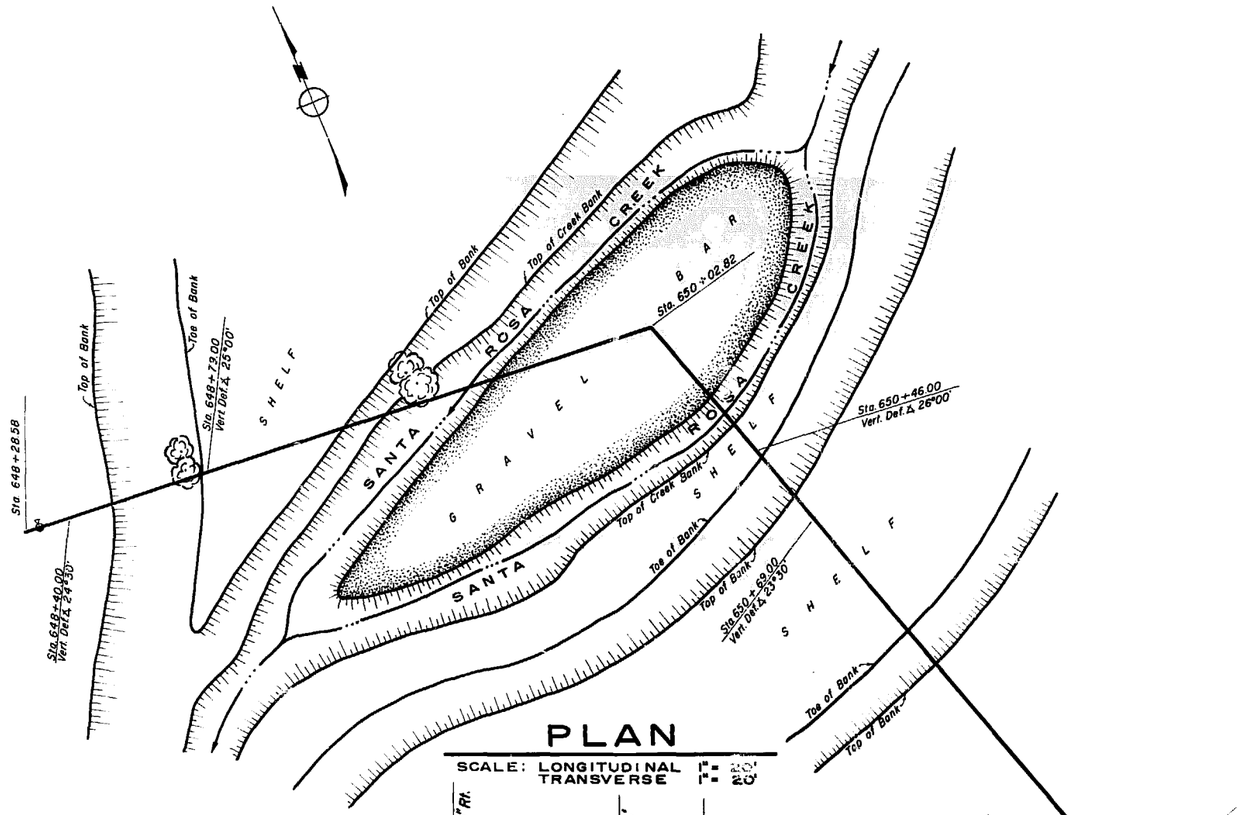
Sta. 638+25 to Sta. 650+03

SCALE: | APPROVED Lyndon W. Miller CHIEF ENGINEER | DRAWN

DATE

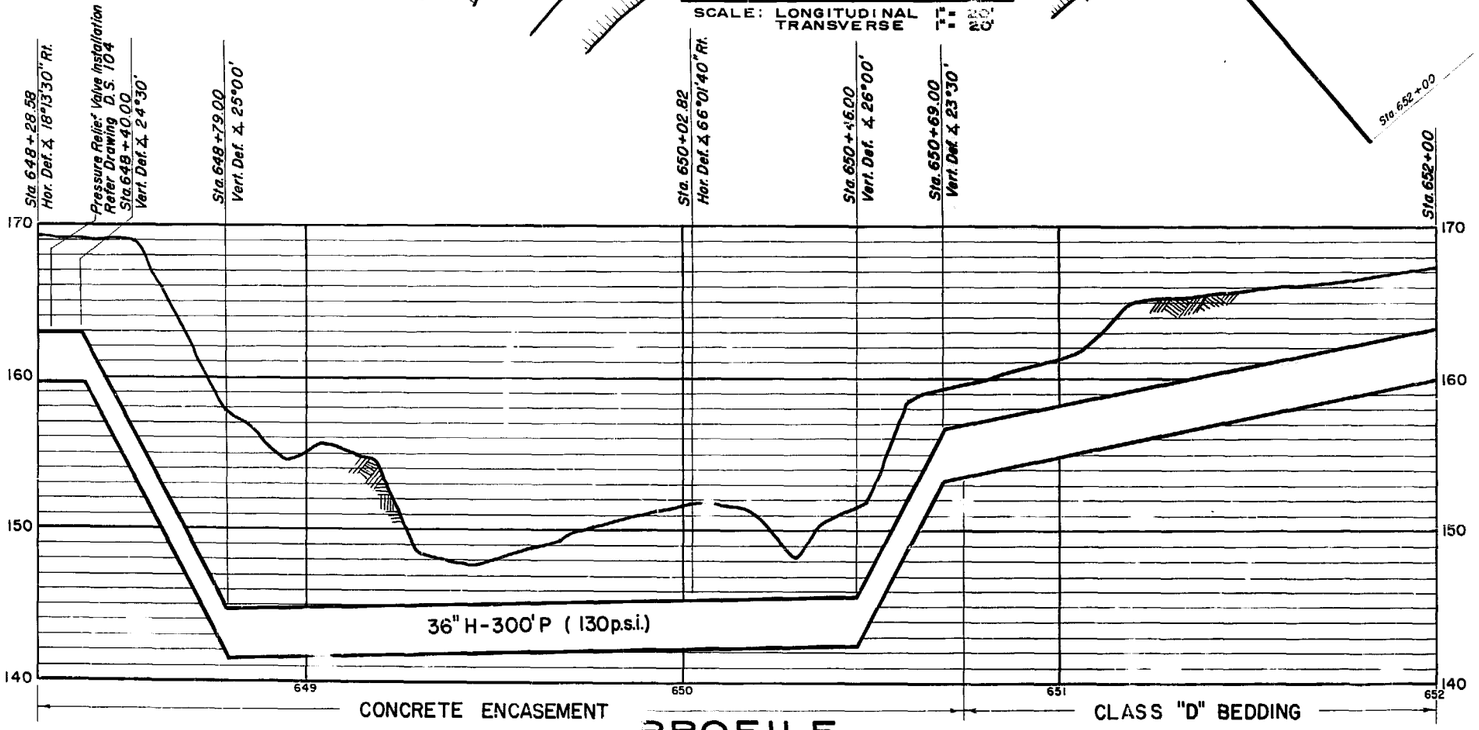
SONOMA COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT

DESIGNED | CHECKED | DRAWING NUMBER 50-4-102.31



PLAN

SCALE: LONGITUDINAL 1" = 20'
TRANSVERSE 1" = 20'



PROFILE

SCALE: HORIZONTAL 1" = 20'
VERTICAL 1" = 5'

Note: All Joints Are To Be Welded ~~For Detail "E" Instructions As Indicated On Plan Drawings~~
Concrete Encasement From Sta 648+24 To Sta 650+75
See Drawing No D.S. 104 For Details
At Angle Points Construct Anchor Blocks Per Drawings Numbers D.S. 107 And D.S. 108

4" Skid 12" In Lieu of Concrete Anchors.

Return to Revised Index

Approved Robert Van Guelpen
Robert Van Guelpen
City Engineer
City of Santa Rosa

No.	DATE	REVISION	By
1	10/57	Drawing No. 104 B Changed To No. 102 52	GRS
2	12/57	~~Chg. class B bedding to class D bedding~~	KW

FRANK B. SARLES
CONSULTING CIVIL ENGINEER – SANTA ROSA, CALIFORNIA

APPROVED Frank B Sarles R.C.E. 5951

DRAWN BY M.N. | CHECKED BY RMK | DATE AUGUST, 1957

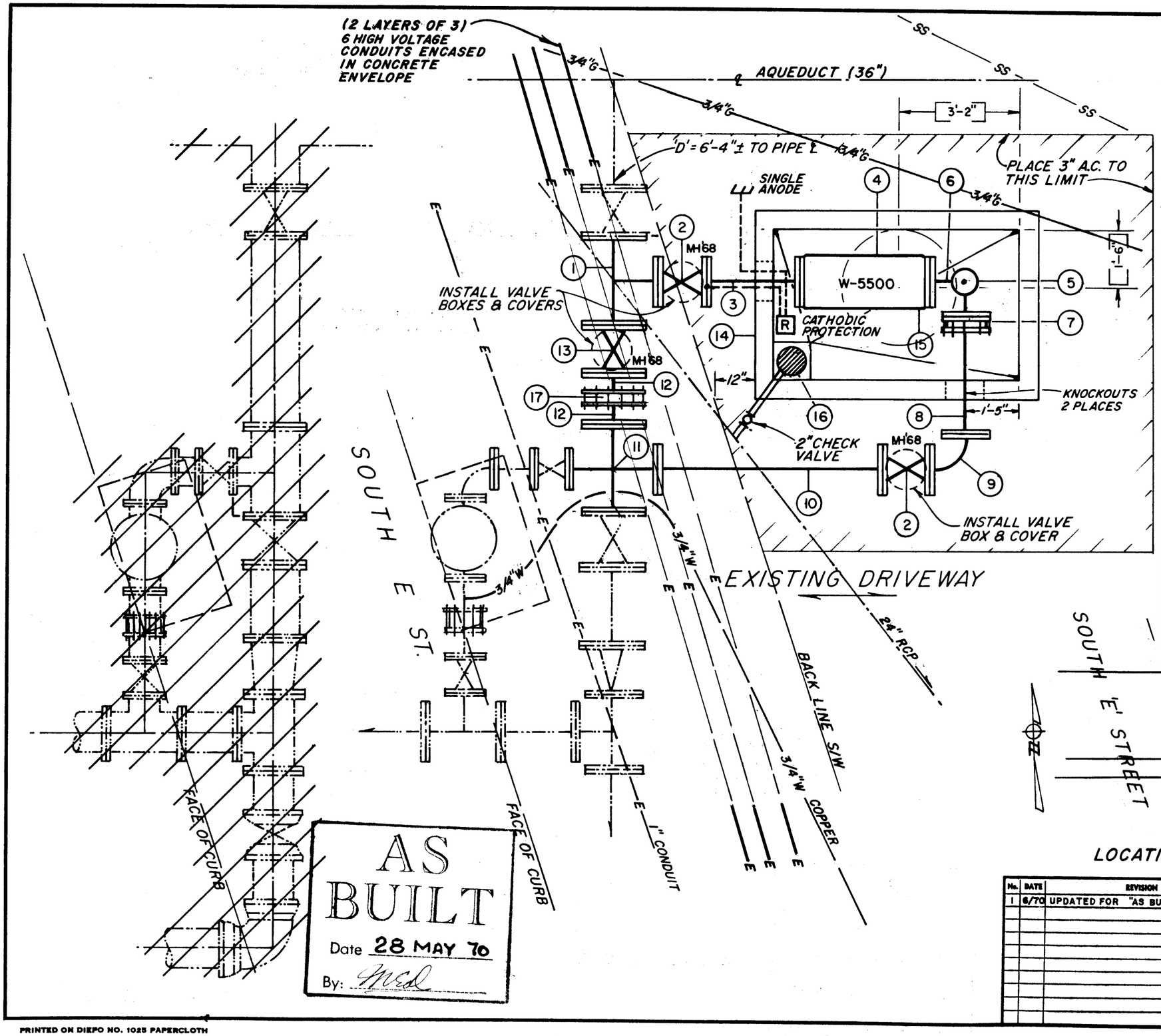
RUSSIAN RIVER AQUEDUCT No. 1

SANTA ROSA CREEK CROSSING

SCALE | APPROVED | DRAWN
DATE | CHIEF ENGINEER

SONOMA COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT

DESIGNED | CHECKED | DRAWING NUMBER 50-4-102.52 A B



SCHEDULE OF ITEMS
(FROM GENERAL STOCK)

1	14"x14"x10" TEE
2	10" GATE VALVE (2 REQ'D)
3	10" x 2'-6" PIPE FBE
4	10" ROCKWELL METER W-5500 (FURN. BY DISTRICT)
5	6" BLIND FLANGE
6	10"x 10"x 6" 90° SIDE OUTLET ELL
7	10" FLANGE x 10" PLAIN END, FLANGED COUPLING ADAPTOR SMITH-BLAIR 912-10-1110
8	10"x 3'-11-3/4" PIPE FOE
9	10"x 10" 90° ELL
10	10"x 5'-11-3/8" PIPE FBE
11	14"x14"x10"x8" CROSS, WELDED STEEL, EPOXY COATED
12	14"x 0'-8-3/4" & 14"x 0'-7-3/4" PIPE FOE
13	14" GATE VALVE
14	4'-0"x6'-6" PRE-CAST VAULT, BROOKS
15	PIPE SUPPORTS AS REQ'D.
16	FLOOR DRAIN, JOSAM No. 5422, CAST IRON BODY & NIKALOY TOP; SWING CHECK VALVE, CRANE No. 34; 2" PIPE SCHED. 40, LENGTH TO SUIT (10'±) GALV. INSTALL DRAIN SIMILAR TO DWG. 50-2-102.23
17	14" DRESSER COUPLING

NOTE:
CONNECT 2" DRAIN TO 24" RCP TO MEET CITY OF SANTA ROSA STANDARDS

Return to Revised Index

N-5

AS BUILT
Date 28 MAY 70
By: MEd

S.R. STA. 647+25

No.	DATE	REVISION	By
1	6/70	UPDATED FOR "AS BUILT"	KP

WATER METER INSTALLATION
SOUTH E ST.
SANTA ROSA

SCALE: 3/8" = 1'-0"
DATE: OCT. 23, '68
APPROVED Gordon W. Mills CHIEF ENGINEER
DRAWN kwp

SONOMA COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT

DESIGNED S. Allop
DRAWING NUMBER 50-2-102.17

PRINTED ON DIEPO NO. 1025 PAPERCLOTH

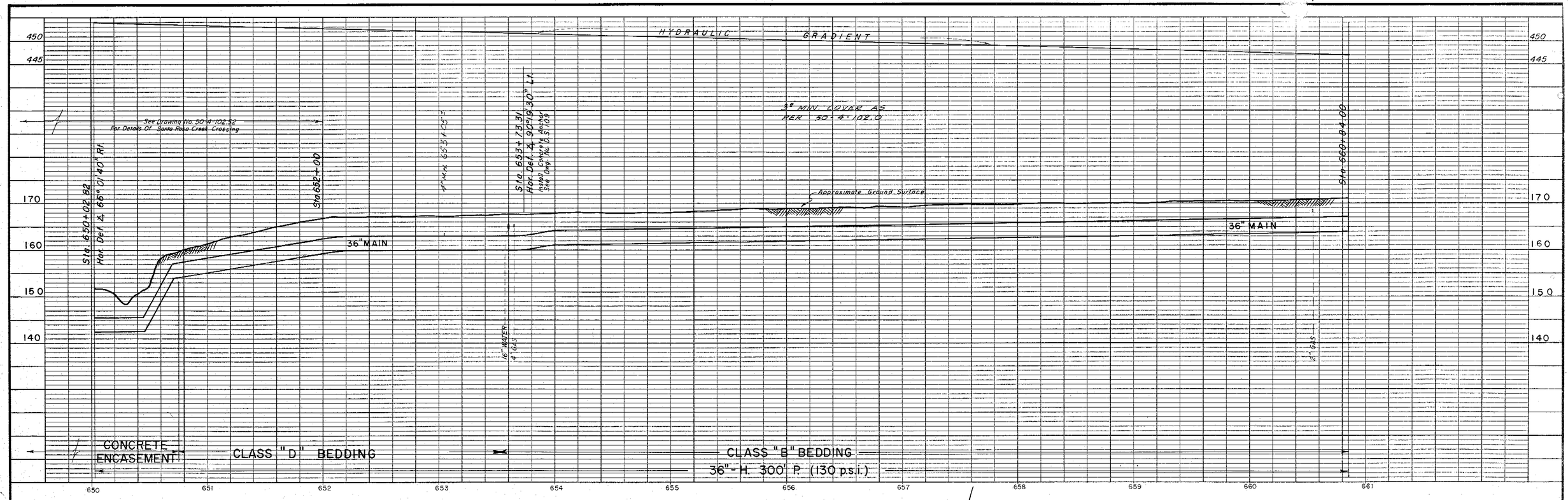
MICROFILMED

PH11-40

PLATE I - PLAN - PROFILE - F. A. S.
CLEARPRINT PAPER CO. S. F. CAL.
No. 1000H-1

PROFILE

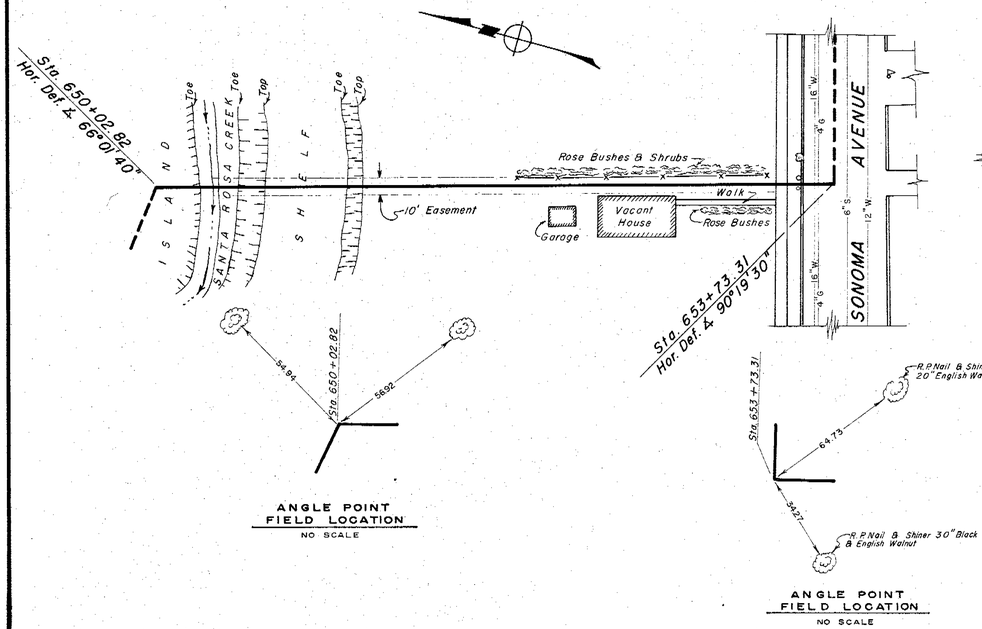
SCALE: HORIZONTAL 1" = 40'
VERTICAL 1" = 10'



B.M. Elev. 167.48 P.K. nail set in So. face of 2nd power pole east of So. "E" St. on No. side of Sonoma. Ave.

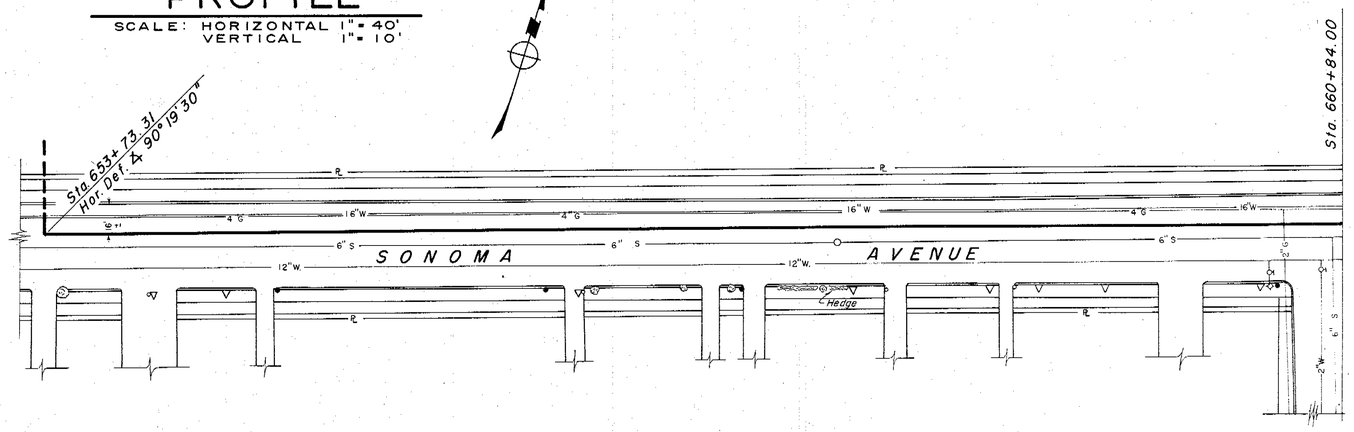
PLAN

SCALE: LONGITUDINAL 1" = 40'
TRANSVERSE 1" = 40'



ANGLE POINT FIELD LOCATION
NO SCALE

ANGLE POINT FIELD LOCATION
NO SCALE



Approved Robert Van Guelpen
Robert Van Guelpen
City Engineer
City of Santa Rosa

AS BUILT
Date 1-26-60
By

Return to Revised Index

No.	DATE	REVISION	By
1	12/57	Chg portion of Class "B" Bedding to Class "D" Bedding	KW
2	12/57	Bench mks, & pts, ref. pts. added	VT

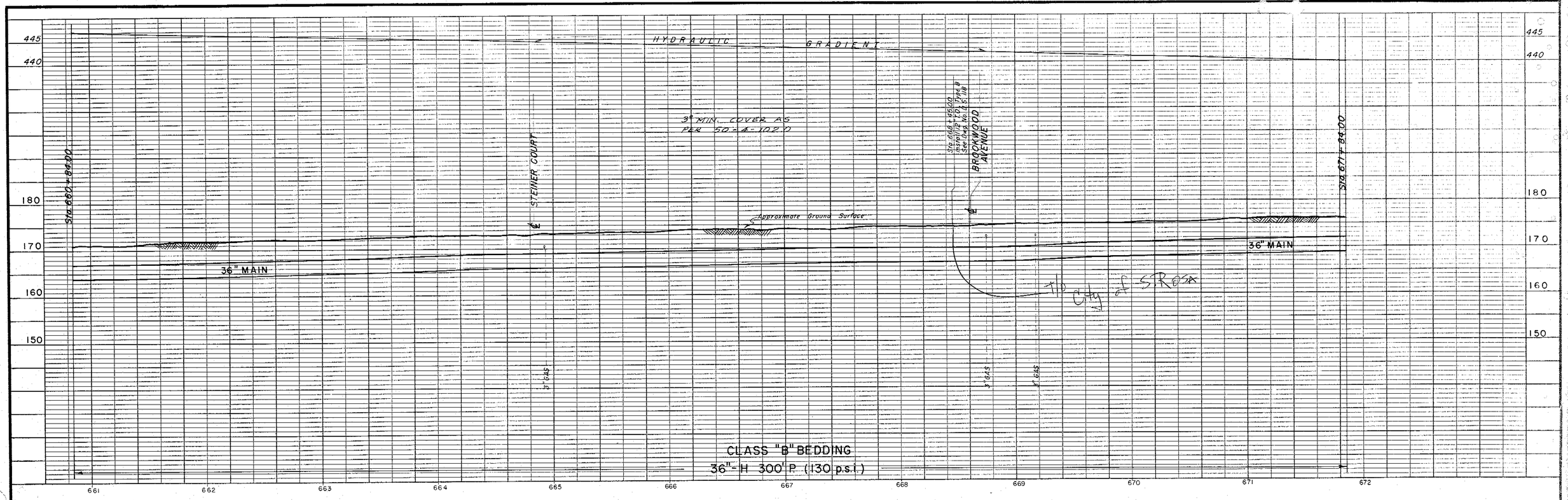
FRANK B. SARLES
CONSULTING CIVIL ENGINEER - SANTA ROSA, CALIFORNIA
APPROVED Frank B Sarles R.C.E. 5951
DRAWN BY M.N.-J.R.-J.B. CHECKED BY [illegible] DATE AUGUST, 1957

RUSSIAN RIVER AQUEDUCT No. 1
Sta. 650+03 to Sta. 660+84

SCALE: APPROVED Andrew W. Walther CHIEF ENGINEER DRAWN
DATE:

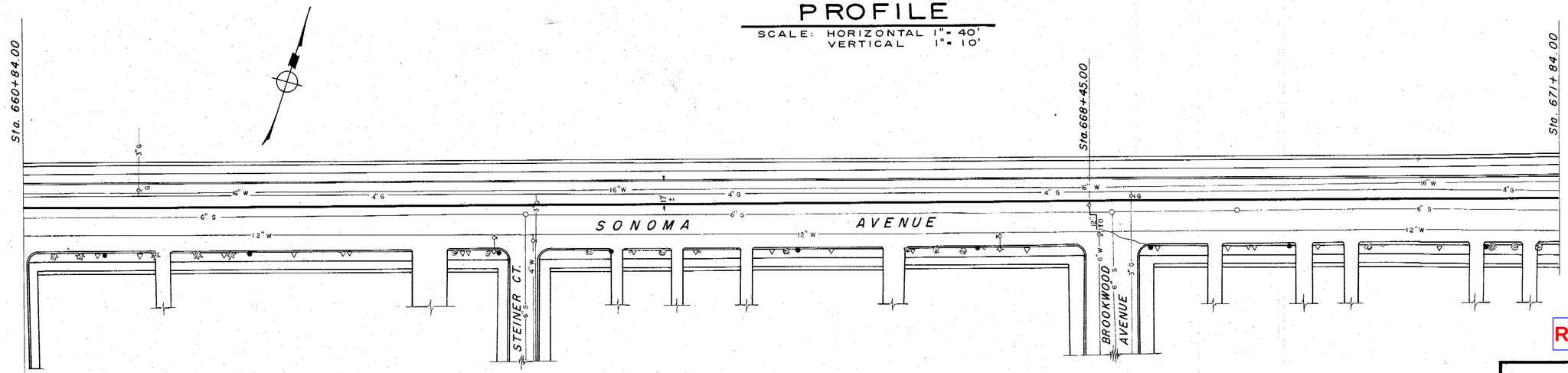
SONOMA COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT

DESIGNED CHECKED DRAWING NUMBER 50-4-102.32



PROFILE

SCALE: HORIZONTAL 1" = 40'
VERTICAL 1" = 10'



PLAN

SCALE: LONGITUDINAL 1" = 40'
TRANSVERSE 1" = 40'

Return to Revised Index

Approved Robert Van Guelpen
Robert Van Guelpen
City Engineer
City of Santa Rosa

AS BUILT
Date 1-26-60
By

No.	DATE	REVISION	By

FRANK B. SARLES
CONSULTING CIVIL ENGINEER – SANTA ROSA, CALIFORNIA

APPROVED Frank B. Sarles R.C.E. 595

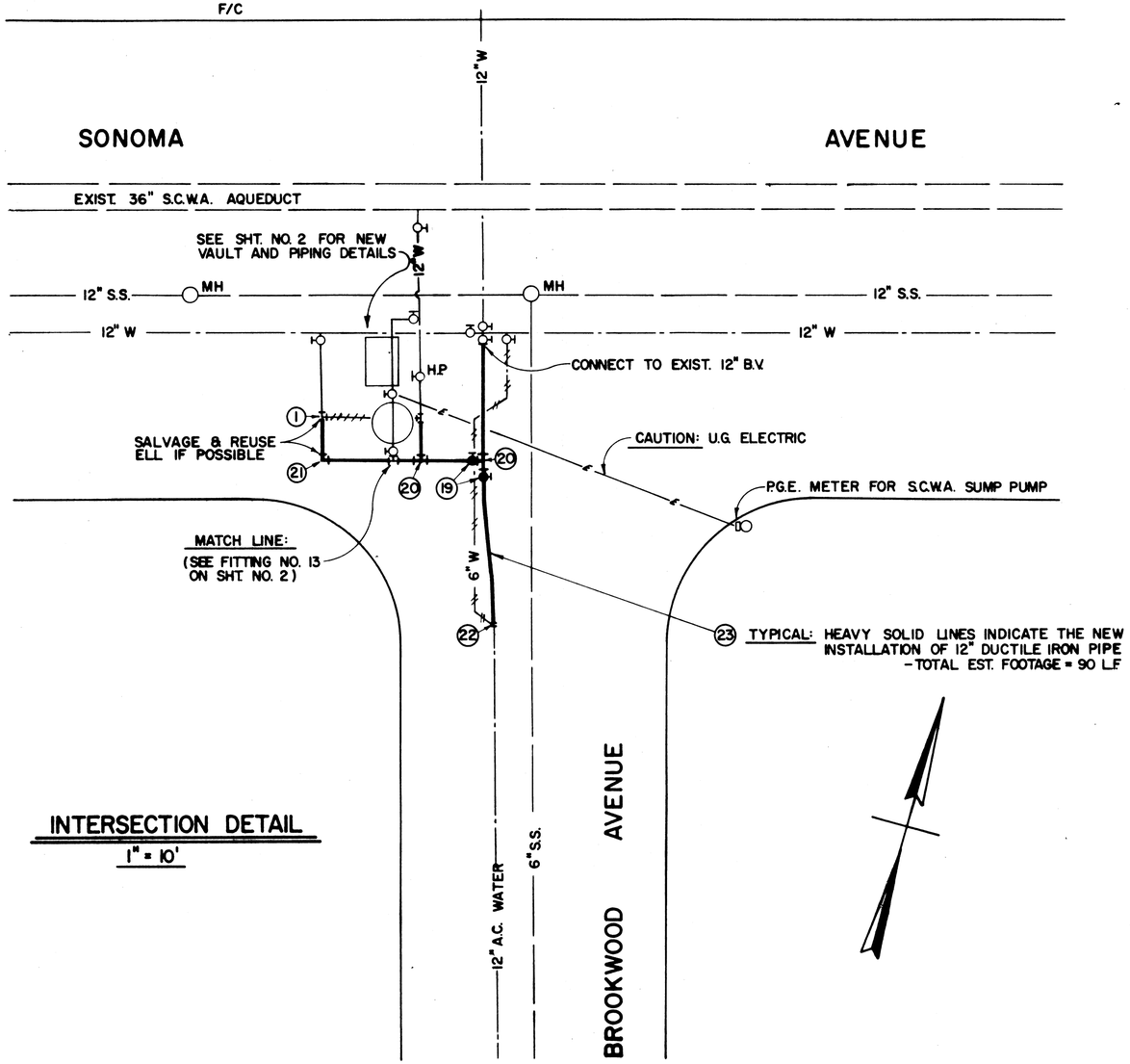
DRAWN BY M.N.-J.R.-J.B. | CHECKED BY [illegible] | DATE AUGUST, 19[illegible]

RUSSIAN RIVER AQUEDUCT No. 1
Sta. 660 + 84 to Sta. 671 + 84

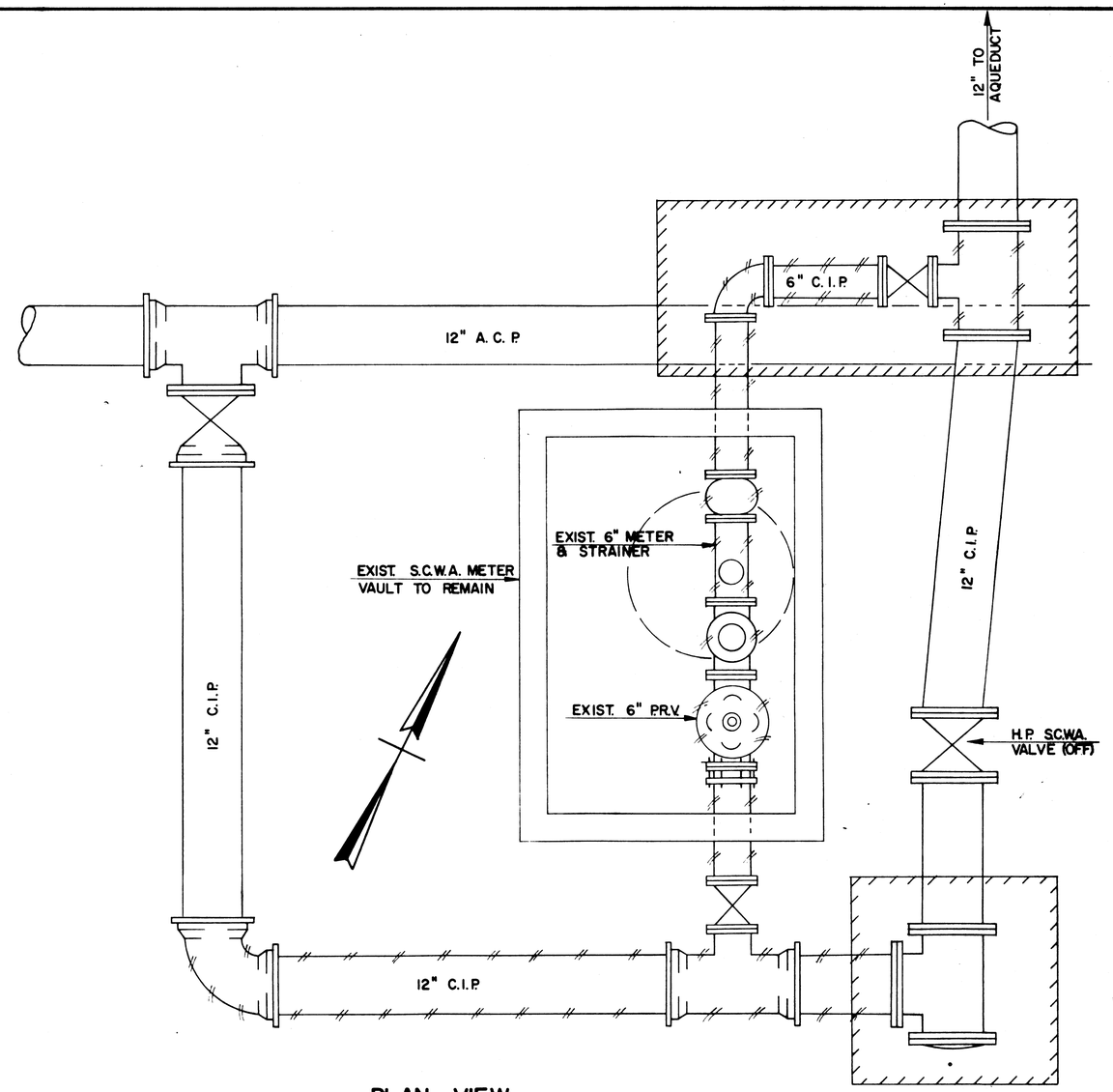
SCALE: | APPROVED Gordon W. Miller CHIEF ENGINEER | DRAWN
DATE:

SONOMA COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT

DESIGNED | CHECKED | DRAWING NUMBER 50-4-102.33



INTERSECTION DETAIL
1" = 10'



PLAN VIEW
EXISTING PIPING AND METER VAULT
3/4" = 1'-0"

PIPING SHALL EITHER BE SALVAGED WHEN POSSIBLE OR ABANDONED IN PLACE

KEY AREAS TO BE EXPOSED PRIOR TO CONSTRUCTION TO DETERMINE EXACT GRADES & CONFIGURATIONS:

As Built 8/26/80

MICROFILMED
ROLL
FRAME

Sonoma County Water Agency
APPROVED:
By _____ Date _____

Return to Revised Index

No.	Date	Revision	By

CITY OF SANTA ROSA

BROOKWOOD AVE. AQUEDUCT TURNOUT RECONSTRUCTION

EXISTING PIPING PLAN & INTERSECTION PLAN

Date: MAY, 1980 Scale: AS SHOWN

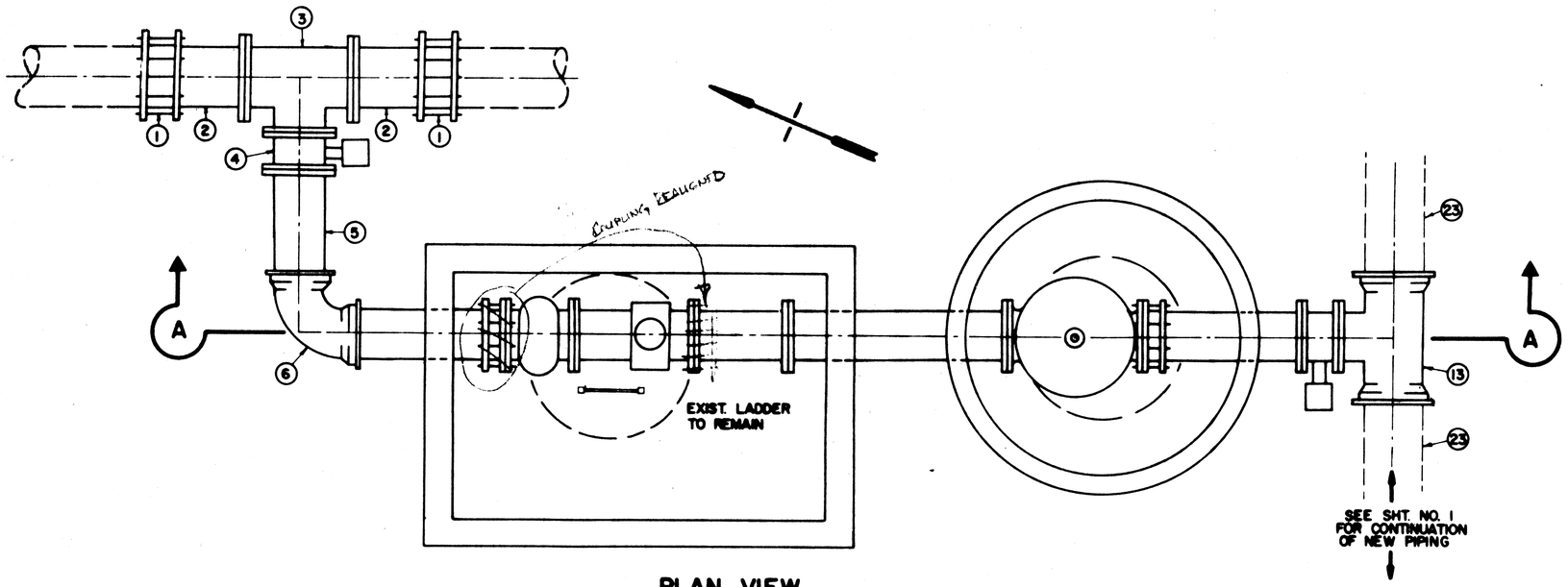
APPROVED:
BY _____ DATE _____

DWN. M.W. PM.
CHK. MW

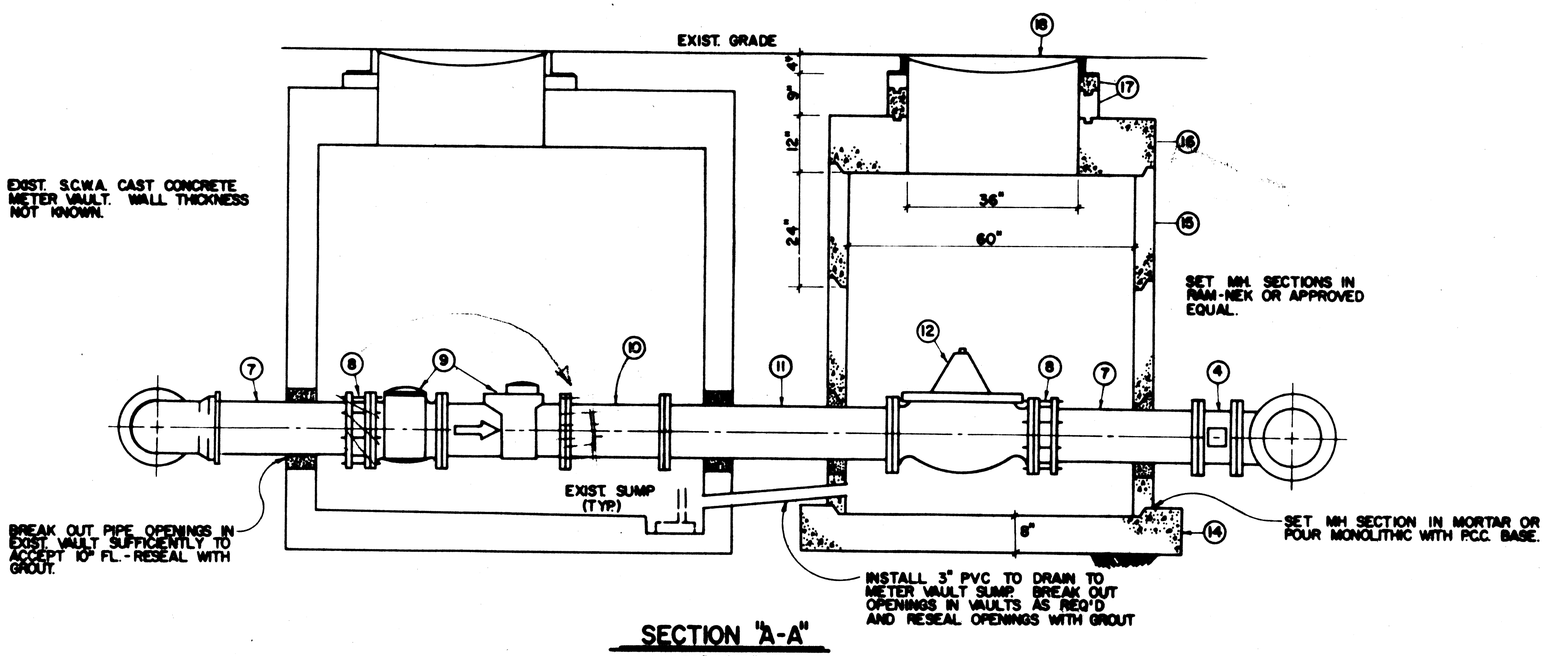
Sheet 1 of 2 Sheets

File Number: 1161

60-2-102.5 PH. 2-3



PLAN VIEW
3/4" = 1'-0"



SECTION "A-A"
3/4" = 1'-0"

LIST OF MATERIALS

ITEM	QUANT.	DESCRIPTION
1	3	12" FLEX. COUPLINGS C.I.P. x C.I.P.
2	2	12" x 1'-6" FL. x P.E. DUCTILE IRON
3	1	12" x 12" x 10" FL. TEE
4	2	10" FL. BUTTERFLY VALVE - DRESSER 450
5	1	10" x 2½ FL. x P.E. DUCTILE IRON
6	1	10" x 90° ELBOW M.J. WITH RETAINER RINGS
7	2	10" x 3'± FL. x P.E. DUCTILE IRON
8	2	10" FL. x P.E. COUPLING ADAPTER
9	1	ROCKWELL MODEL W-5500 10" METER WITH STRAINER
10	1	10" x 2'-0"± FL. SPOOL
11	1	10" x 4'-0" FL. SPOOL
12	1	CLAYTON MODEL 90-016 10" PRESSURE REGULATING VALVE
13	1	12" x 12" x 10" M.J. x M.J. x FL. TEE
14	1	P.C.C. MANHOLE BASE - 8" TH.
15	3	PRECAST 60" I.D. x 24" MANHOLE SECTION
16	1	60" DIA. FLAT SLAB MANHOLE REDUCER W/ 36" DIA. OPENING
17	1 EA.	3" x 36" AND 6" x 36" MANHOLE GRADE RINGS
18	1	PHOENIX IRON WORKS NO. P-1006 36" I.D. MH FRAME & COVER
19	2	12" M.J. BUTTERFLY VALVE - DRESSER 450
20	2	12" ALL M.J. TEE
21	1	12" x 90° M.J. ELBOW (IF EXIST. IS NOT SALVAGEABLE
22	1	12" A.C.P. x DUCTILE IRON FLEX. COUPLING
23	90 L.F.	12" DUCTILE IRON M.J. PIPE

NOTES:

1. CONTACT UNDERGROUND SERVICE ALERT (U.S.A.) AT 800-542-2444 AT LEAST 48 HOURS PRIOR TO EXCAVATING FOR LOCATIONS OF EXISTING UNDERGROUND FACILITIES.
2. COORDINATE SHUTDOWN OF TURNOUT WITH THE SONOMA COUNTY WATER AGENCY AND CITY DISTRIBUTION SUPERVISOR (LEWIS VAUGHN).
3. THE CONFIGURATIONS & GRADES OF NEW & EXIST. PIPING SHOWN ON THESE PLANS ARE BASED ON THE BEST INFORMATION AVAILABLE SHORT OF ACTUAL EXPOSURE OF THE PIPING IN THE FIELD. ALL GRADES AND FITTINGS SHOWN SHALL BE CHECKED FOR COMPATABILITY BY POTHOLING PRIOR TO CONSTRUCTION.

Return to Revised Index

MICROFILMED
ROLL
FRAME

Sonoma County Water Agency
APPROVED:
By _____ Date _____

No.	Date	Revision	By

CITY OF SANTA ROSA

BROOKWOOD AVE. AQUEDUCT TURNOUT RECONSTRUCTION

NEW PIPING AND VAULT DETAILS PLAN AND SECTION

Date: MAY, 1980 | Scale: AS SHOWN

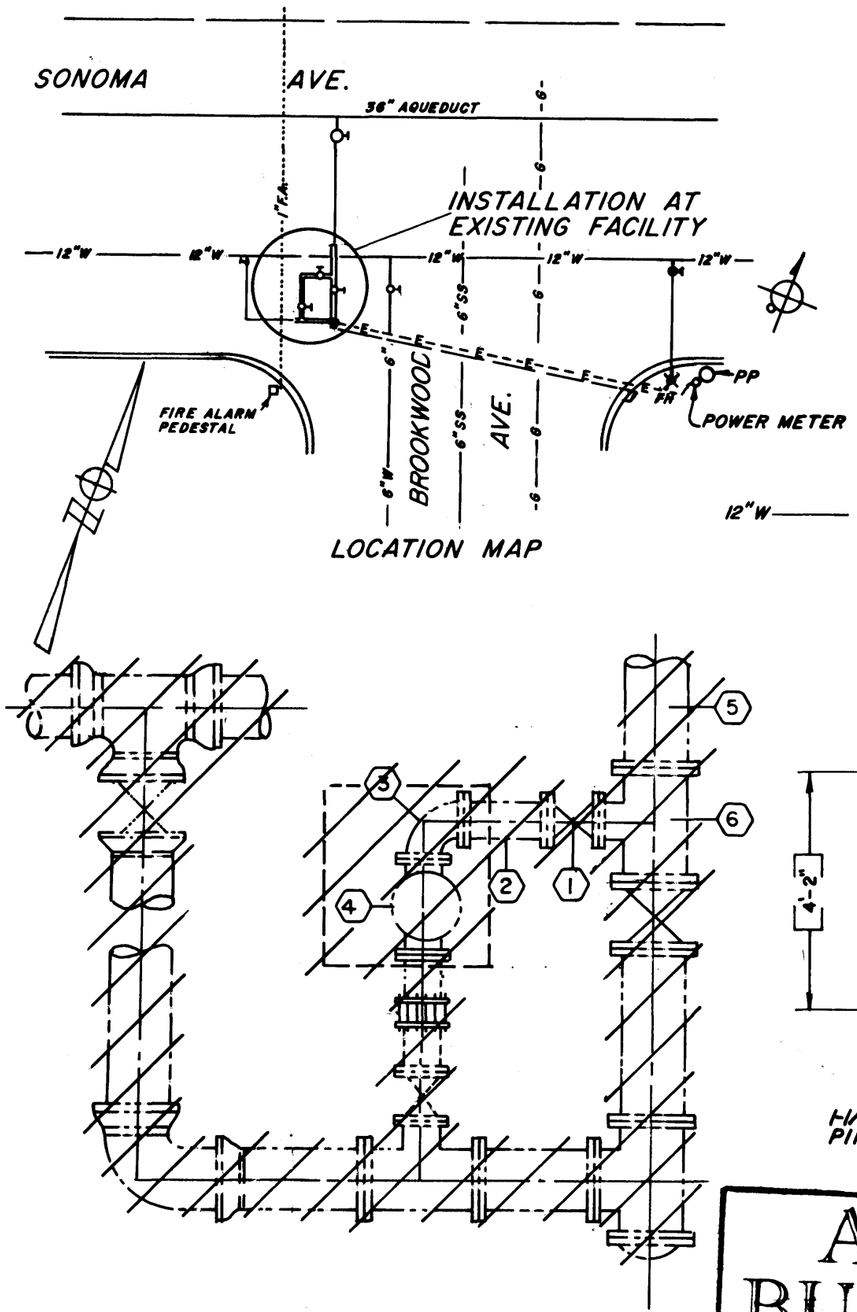
APPROVED:
BY _____ DATE _____

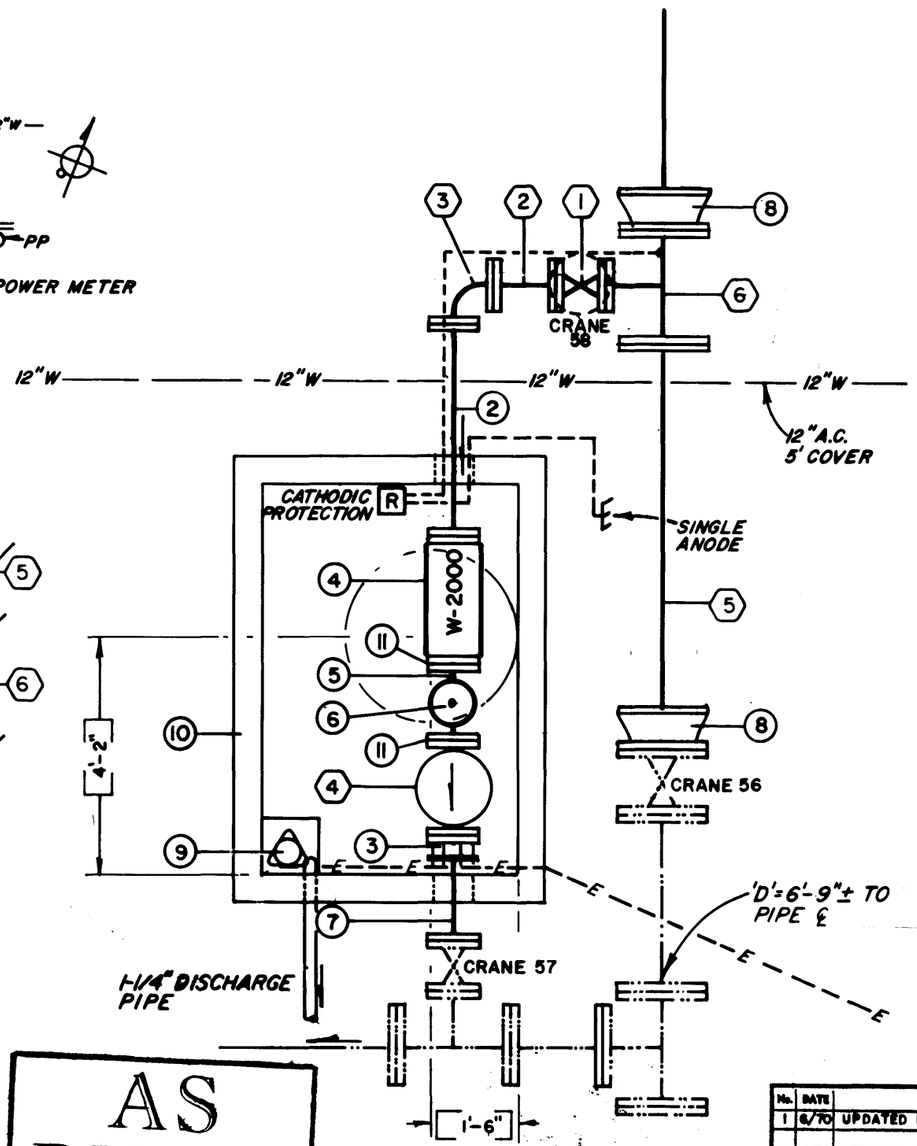
DWN. MW, PM
CHK. MW

Sheet 2 of 2 Sheets

File Number: 1161

60-2-102.6 PH 2-3





SCHEDULE OF ITEMS

1	DELETED
2	6"x 3'-0" PIPE FBE
3	6" FLANGE x PLAIN END, FLANGED COUPLING ADAPTOR SMITH-BLAIR No. 912-6-690
4	6" ROCKWELL METER W-2000 (FURNISHED BY DISTRICT)
5	6"x6"x4" TEE
6	4" BLIND FLANGE
7	6"x1'-9-1/2" PIPE FOE
8	12"x12" FLG. x HUB ADAPTOR (2 REQ'D)
9	SUMP PUMP ASSEMBLY WITH 1¼" DISCHARGE PIPE TO CURB SEE DWG No. 50-2-102.24
10	4'-6"x6'-10" VAULT POURED IN PLACE
11	PIPE SUPPORTS (AS REQ'D)

SCHEDULE OF ITEMS

1	6" GATE VALVE
2	6" PIPE FBE
3	6"x6" ELL
4	6" PRESSURE REGULATOR
5	12" PIPE, FOE TO FIT
6	12"x12"x6" TEE

N-5.

Return to Revised Index

AS BUILT
Date 28 MAY 70
By:

No.	DATE	REVISION	By
1	6/70	UPDATED FOR 'AS BUILTS'	KP

S.R. STA. 668+45

WATER METER INSTALLATION SONOMA AVE & BROOKWOOD AVE. SANTA ROSA

SCALE: 3/8"=1'-0" APPROVED Gordon W. Miller CHIEF ENGINEER DRAWN kwp
DATE: AUG. 16, '68 K.P.K.

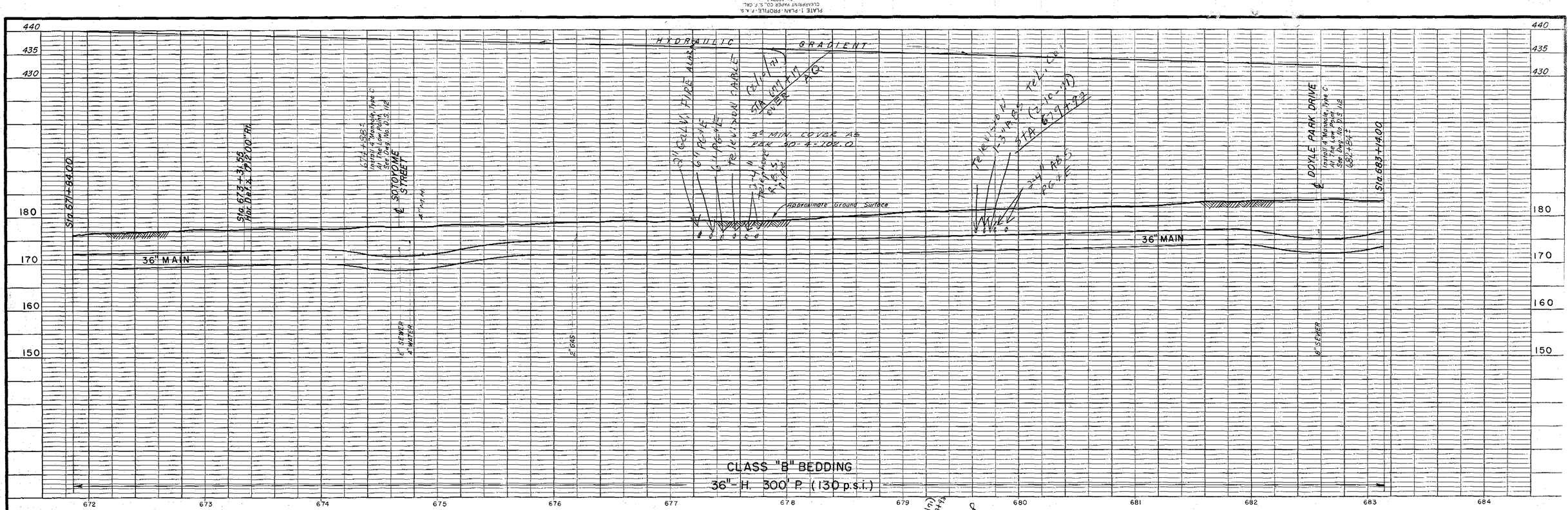
SONOMA COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT

DESIGNED K. Allen DRAWING NUMBER 50-2-102.18

PRINTED ON DIEPO NO. 1028 PAPERCLOTH

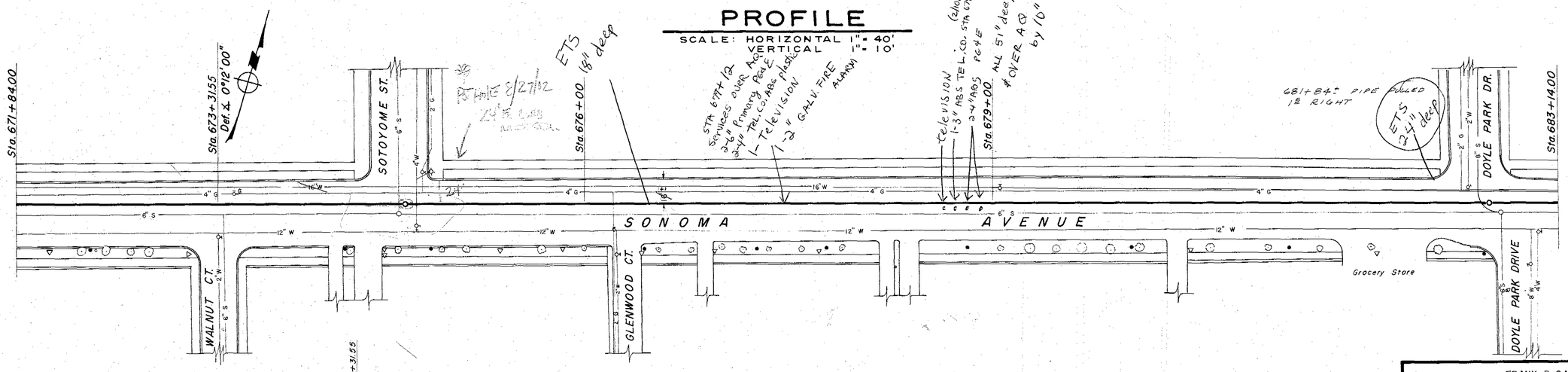
MICROFILMED PH11-40

PLATE 1-PLAN, PROFILE, P.A.S.
BLUEPRINT PAPER CO., S.F. CAL.
No. 1000M-1



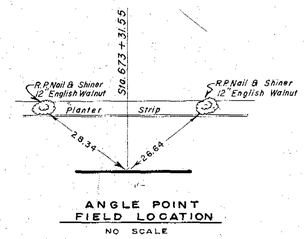
PROFILE

SCALE: HORIZONTAL 1"= 40'
VERTICAL 1"= 10'



PLAN

SCALE: LONGITUDINAL 1"= 40'
TRANSVERSE 1"= 40'



ANGLE POINT
FIELD LOCATION
NO SCALE

Approved Robert Van Guelpen
Robert Van Guelpen
City Engineer
City of Santa Rosa

AS BUILT
Date 1-26-60
By

Return to Revised Index

No.	DATE	REVISION	By

FRANK B. SARLES
CONSULTING CIVIL ENGINEER – SANTA ROSA, CALIFORNIA

APPROVED Frank B. Sarles R.C.E. No.

DRAWN BY M.N.-J.R.-J.B. CHECKED BY R.V.G. DATE AUGUST, 19

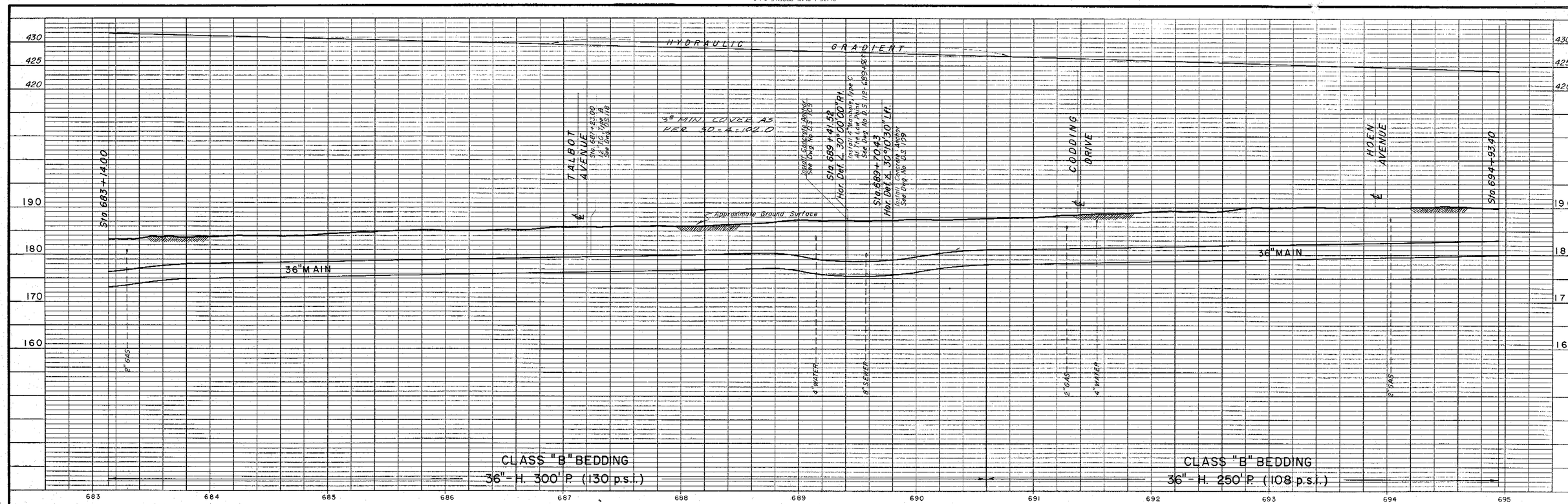
RUSSIAN RIVER AQUEDUCT No. 1
Sta. 671+84 to Sta. 683+14

SCALE: DATE: APPROVED John W. Mueller CHIEF ENGINEER DRAWN

SONOMA COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT

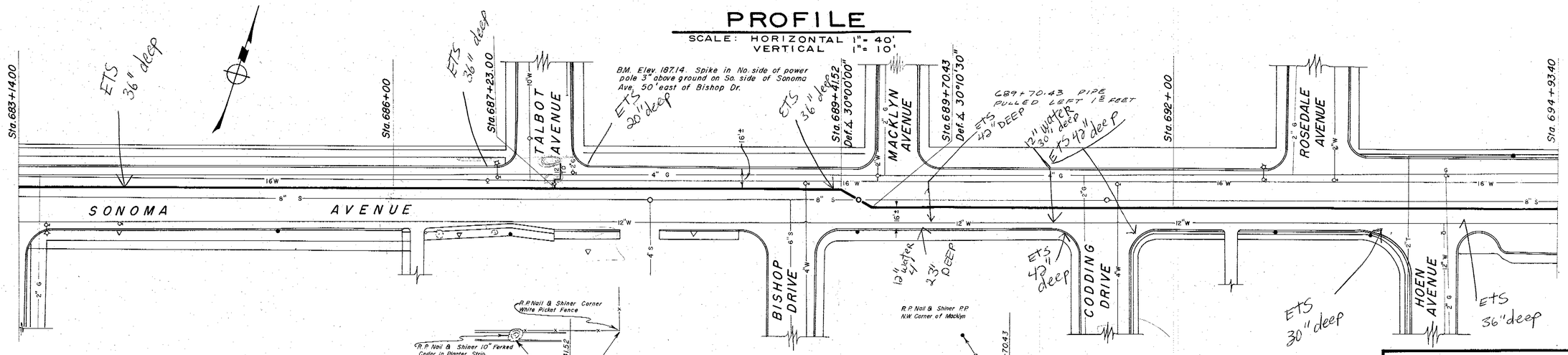
DESIGNED CHECKED DRAWING NUMBER 50-4-102.34

PLATE 1-PLAN-PROFILE-F.A.S.
CLEARPRINT PAPER CO.L.A.-CAL.
No. 1000H-1



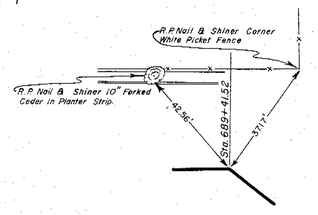
PROFILE

SCALE: HORIZONTAL 1"= 40'
VERTICAL 1"= 10'

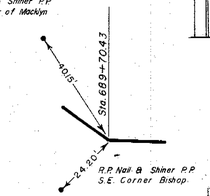


PLAN

SCALE: LONGITUDINAL 1"= 40'
TRANSVERSE 1"= 40'



ANGLE POINT
FIELD LOCATION
NO SCALE



ANGLE POINT
FIELD LOCATION
NO SCALE

Approved Robert Van Guelpen
Robert Van Guelpen
City Engineer
City of Santa Rosa

AS BUILT
Date 1-26-60
By

Return to Revised Index

No.	DATE	REVISION	By
1	12/57	Bench mks, X pts, ref. pts. added	VT

FRANK B. SARLES
CONSULTING CIVIL ENGINEER - SANTA ROSA, CALIFORNIA

APPROVED Frank B Sarles R.C.E. 5951

DRAWN BY M.N.-J.R.-J.B. | CHECKED BY R.V.E. | DATE AUGUST, 195?

RUSSIAN RIVER AQUEDUCT No. 1

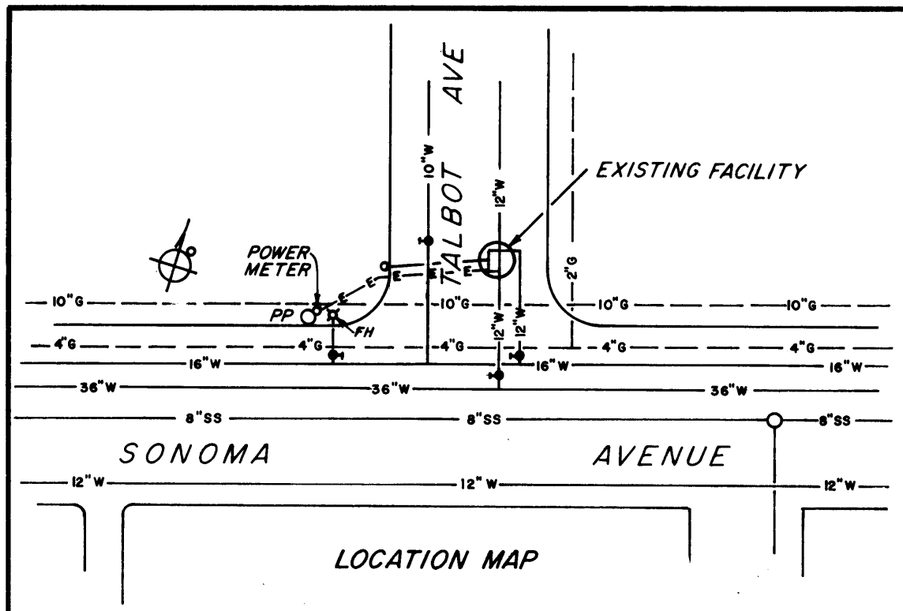
Sta. 683 + 14 to Sta. 694 + 93

SCALE: | APPROVED Roden W Miller CHIEF ENGINEER | DRAWN

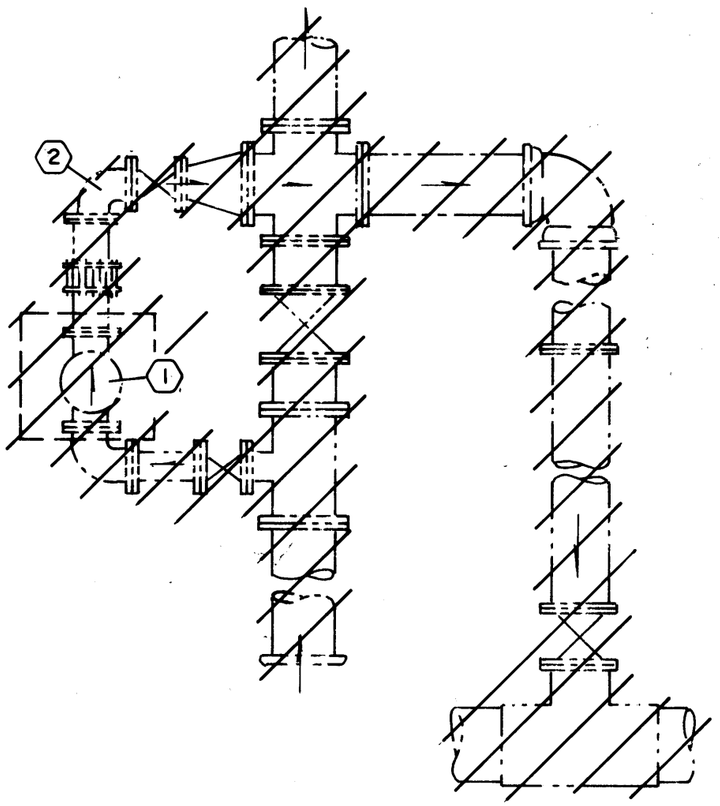
DATE:

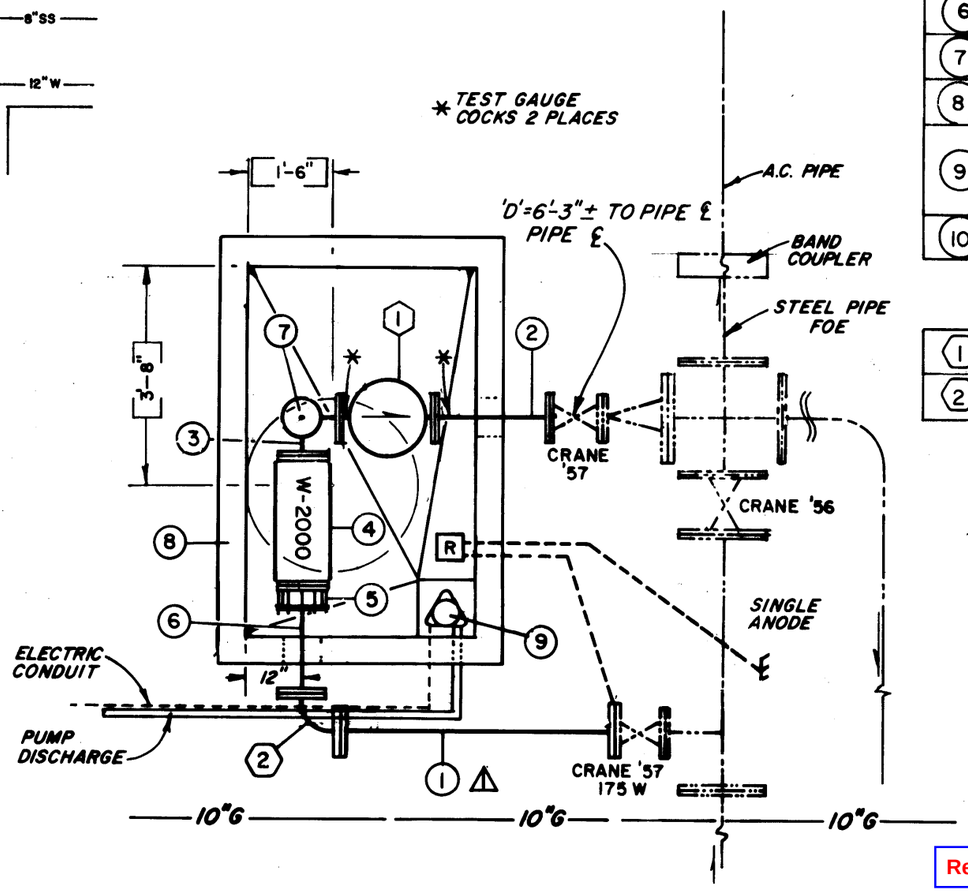
SONOMA COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT

DESIGNED | CHECKED | DRAWING NUMBER 50-4-102.35



LOCATION MAP





SCHEDULE OF ITEMS

1	6" x 4'-7" PIPE FBE
2	6" x 1'-9" PIPE FBE
3	6" x 6" x 4" 90° SIDE OUTLET ELL
4	6" ROCKWELL METER W-2000 (FURNISHED BY DISTRICT)
5	6" FLANGED x 6" PLAIN END, FLANGED COUPLING ADAPTOR SMITH-BLAIR 912-6-690
6	6" x 1'-8-1/2" PIPE FOE
7	4" BLIND FLANGE
8	4'-0" x 6'-6" VAULT POURED IN PLACE
9	SUMP PUMP ASSEMBLY WITH 1-1/4" DISCHARGE PIPE TO CURB SEE DWG. No. 50-2-102.24
10	PIPE SUPPORTS AS REQ'D

SCHEDULE OF ITEMS

1	6" PRESSURE REDUCER CLA-VAL
2	6" x 6" 90° ELL

AS BUILT
Date 28 MAY 70
By

N455

Return to Revised Index

S.R. STA. 687+23

No.	DATE	REVISION	By
1	6/69	REVISED TO CLEAR EXISTING 10" GAS LINE. ITEM (1) CHANGED	KP
2	6/70	UPDATED FOR 'AS BUILTS'	

WATER METER INSTALLATION SONOMA AVE. & TALBOT AVE. SANTA ROSA

SCALE: 3/8"=1'-0" | APPROVED Gordon W. Mills, CHIEF ENGINEER | DRAWN kwp

DATE: AUG. 16, '68

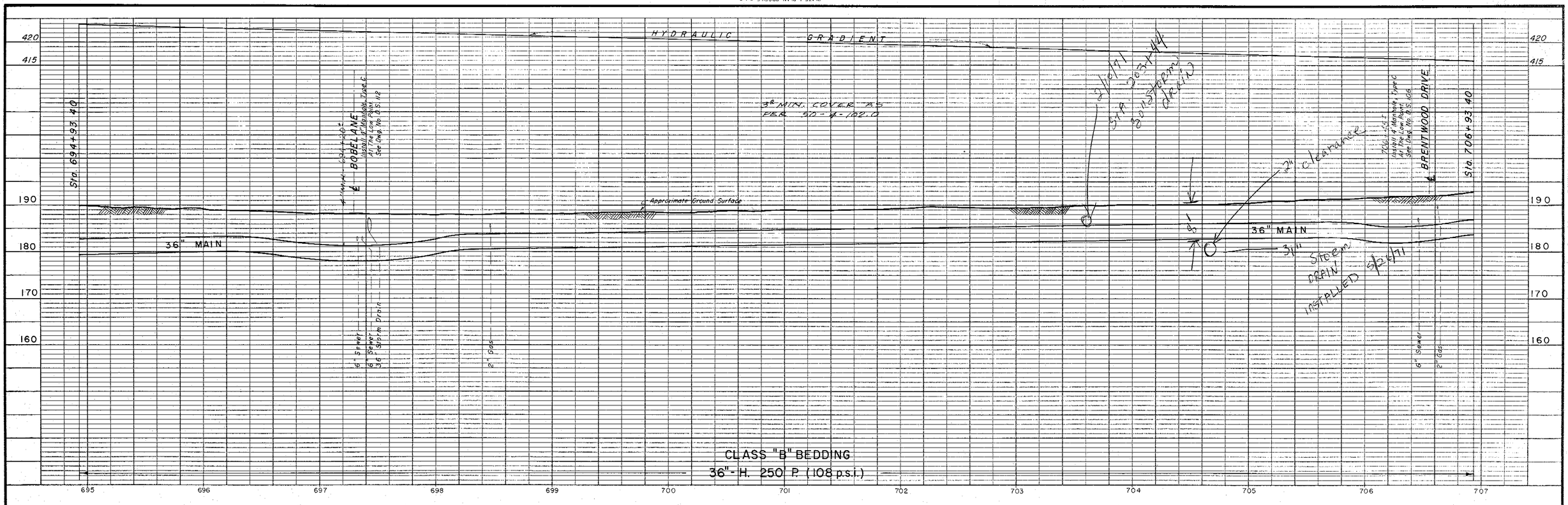
SONOMA COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT

DESIGNED | DRAWING NUMBER 50-2-102.19.1

PRINTED ON DIEPO NO. 1025 PAPERCLOTH

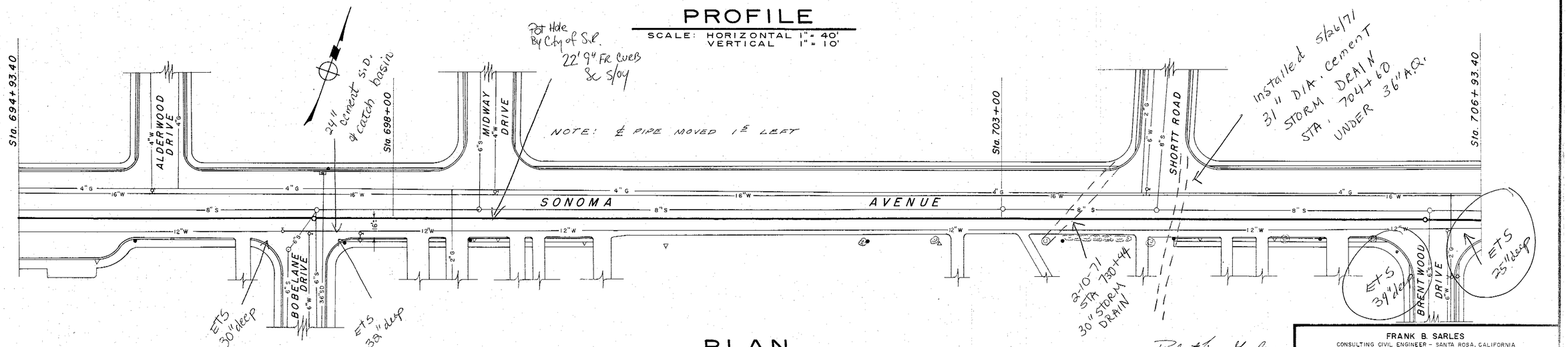
MICROFILMED

PLATE 1-PLAN-PROFILE-F.A.B.
CLEARPRINT PAPER CO. S.F. CAL.
No. 1000H-1



PROFILE

SCALE: HORIZONTAL 1" = 40'
VERTICAL 1" = 10'



PLAN

SCALE: LONGITUDINAL 1" = 40'
TRANSVERSE 1" = 40'

Approved Robert Van Kuelgen
Robert Van Kuelgen
City Engineer
City of Santa Rosa

AS BUILT
Date 1/26/60
By

Return to Revised Index

No.	DATE	REVISION	By

FRANK B. SARLES
CONSULTING CIVIL ENGINEER - SANTA ROSA, CALIFORNIA

APPROVED Frank B. Sarles R.C.E. 595

DRAWN BY	CHECKED BY	DATE
M.N.-J.R.-J.B.	R.V.K.	AUGUST, 1971

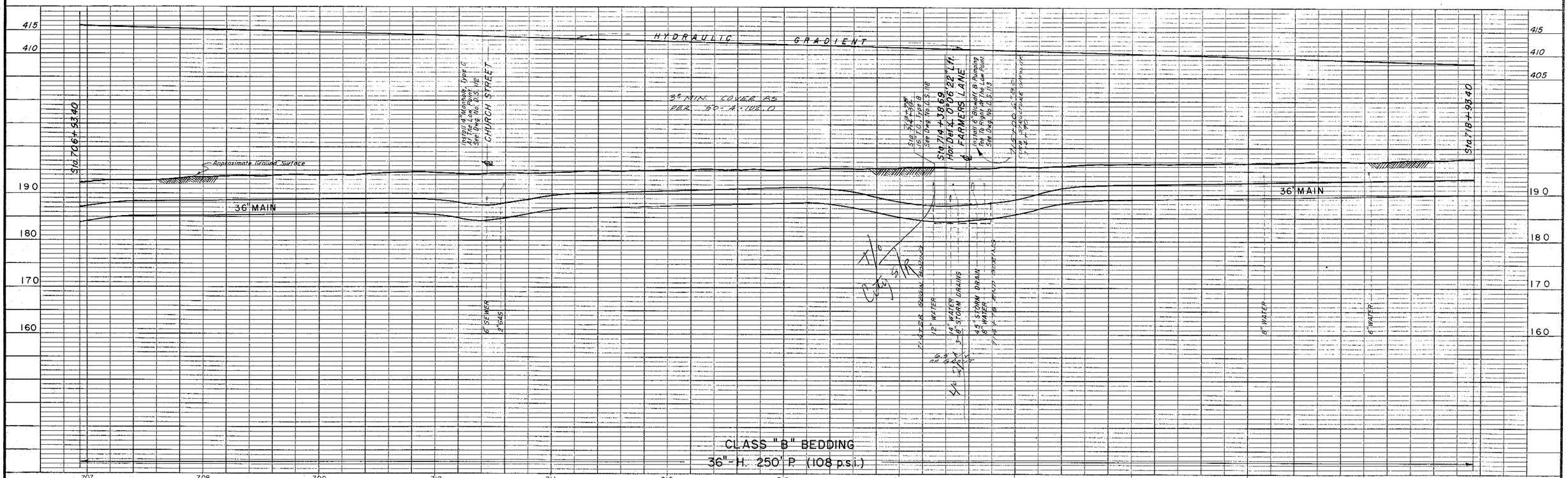
RUSSIAN RIVER AQUEDUCT No 1
Sta. 694+93 to Sta. 706+93

SCALE:	APPROVED Gordon W. Miller CHIEF ENGINEER	DRAWN
DATE:		

SONOMA COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT

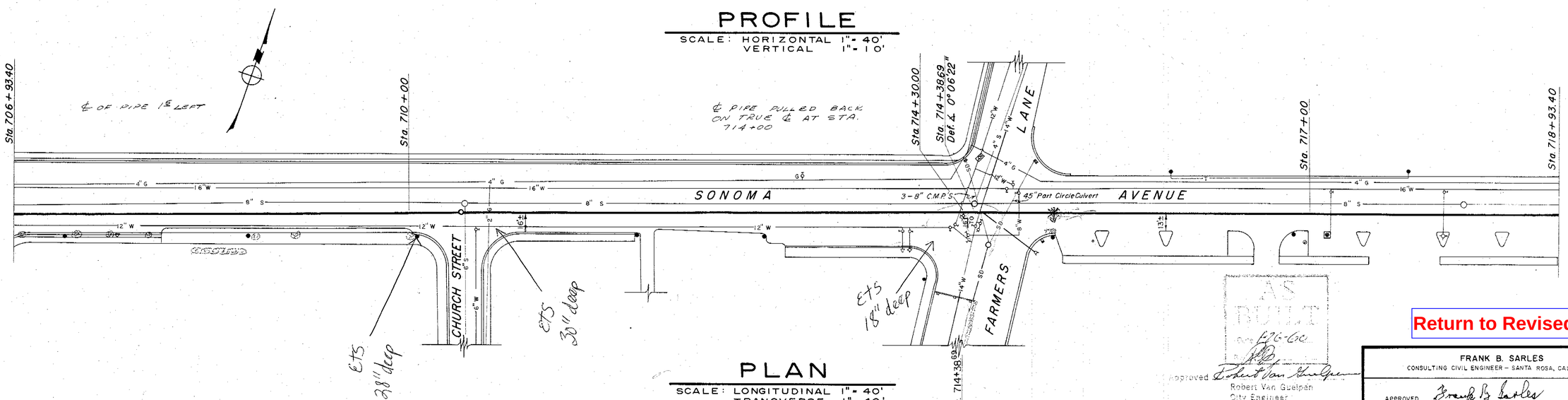
DESIGNED	CHECKED	DRAWING NUMBER
		50-4-102.36

PLATE 1-PLAN-PROFILE-F.A.S.
CLEARPRINT PAPER CO. S. F. CAL.
No. 1000-1



PROFILE

SCALE: HORIZONTAL 1"= 40'
VERTICAL 1"= 10'



PLAN

SCALE: LONGITUDINAL 1"= 40'
TRANSVERSE 1"= 40'

AS BUILT
Date 12-6-60

Approved Robert Van Guelpen
Robert Van Guelpen
City Engineer
City of Santa Rosa

No	DATE	REVISION	By

FRANK B. SARLES
CONSULTING CIVIL ENGINEER – SANTA ROSA, CALIFORNIA

APPROVED Frank B. Sarles R.C.E. 595

DRAWN BY M.N.-J.R.-J.B. | CHECKED BY | DATE AUGUST, 1957

RUSSIAN RIVER AQUEDUCT No. 1

Sta. 706+93 to Sta. 718+93

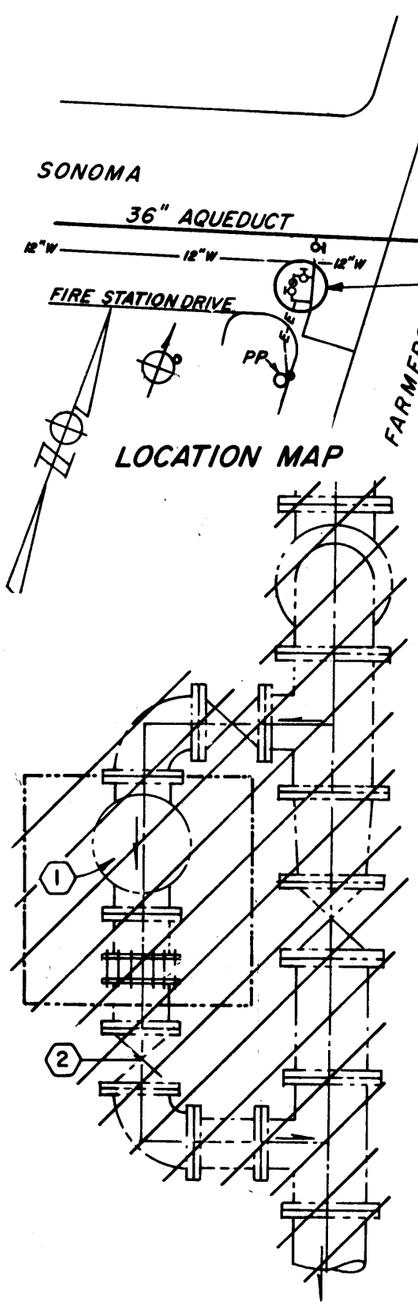
SCALE: | APPROVED Gordon W. Wattis CHIEF ENGINEER | DRAWN

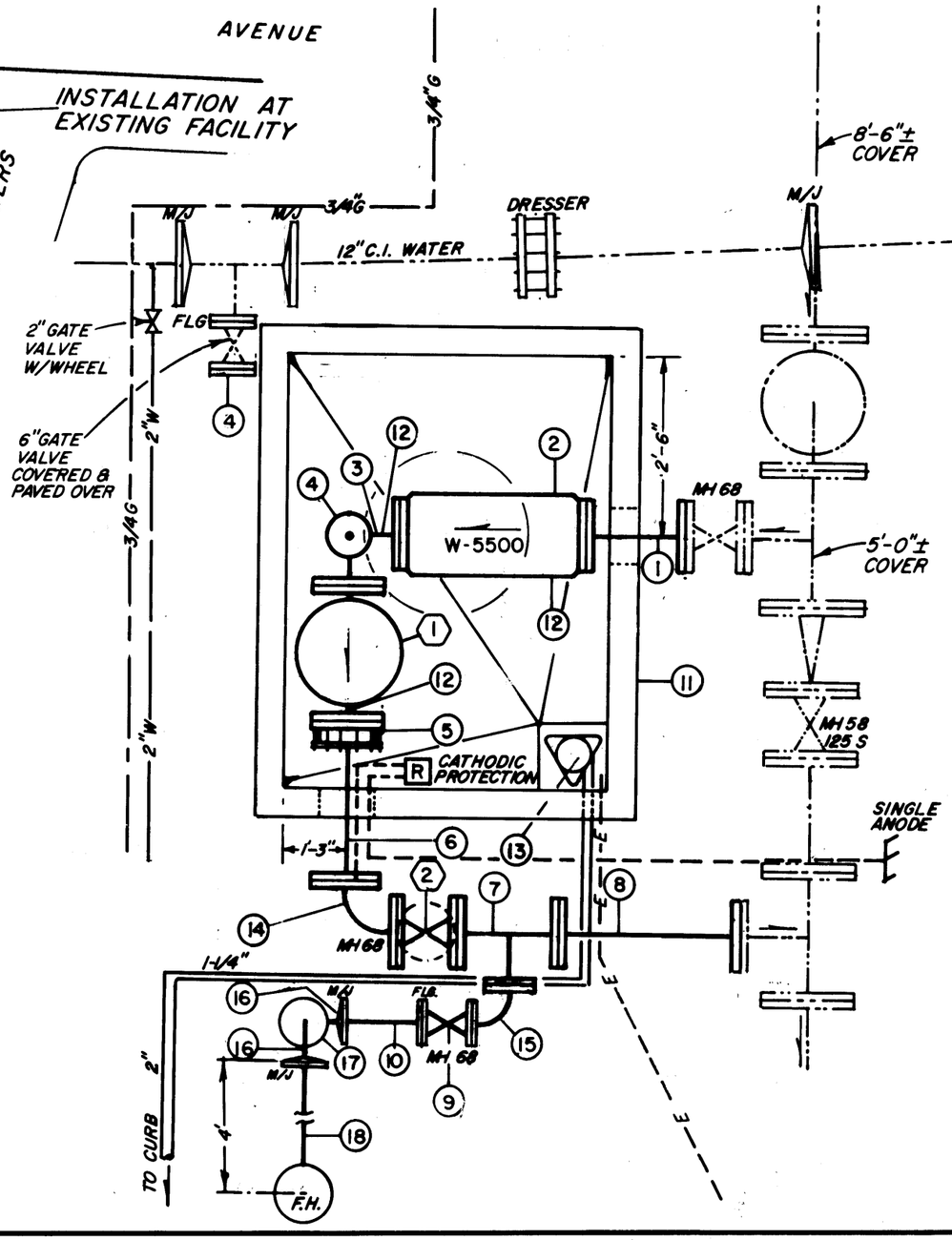
DATE:

SONOMA COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT

DESIGNED | CHECKED | DRAWING NUMBER 50-4-102.37

Return to Revised Index





SCHEDULE OF ITEMS

1	10"x1'-8" PIPE F.B.E.
2	10" ROCKWELL METER, W-5500 (FURNISHED BY DISTRICT)
3	10"x10"x6" SIDE OUTLET ELL
4	6" BLIND FLANGE (2 REQ'D)
5	10" FLANGE x 10" PLAIN END, FLANGED COUPLING ADAPTOR SMITH-BLAIR 912-10-1110
6	10"x 3'-1" PIPE FOE
7	10"x10"x6" TEE
8	10"x 3'-4" PIPE FBE
9	6" GATE VALVE
10	6"x1'-6" PIPE FOE
11	6'-0"x 8'-0" PRE-CAST VAULT, BROOKS 850
12	PIPE SUPPORTS (AS REQ'D)
13	SUMP PUMP ASSEMBLY WITH 1-1/4" DISCHARGE PIPE TO CURB SEE DWG. No. 50-2-102.24
14	10"x10" 90° ELL
15	6"x6" 90° ELL FLGD.
16	6"x 6" 90° ELL M/J 2 PLACES
17	6"x0'-6" PIPE, PLAIN, (RISER)
18	6" PIPE TO FIRE HYDRANT

1	10" PRESSURE REDUCER, CLA-VAL
2	10" GATE VALVE

AS BUILT
Date 28 MAY 70
By:

Return to Revised Index

S.R. STA. 714+30

No.	DATE	REVISION	By
1	6/70	UPDATED FOR 'AS BUILTS'	KP

WATER METER INSTALLATION SONOMA AVE. & FARMERS LANE SANTA ROSA

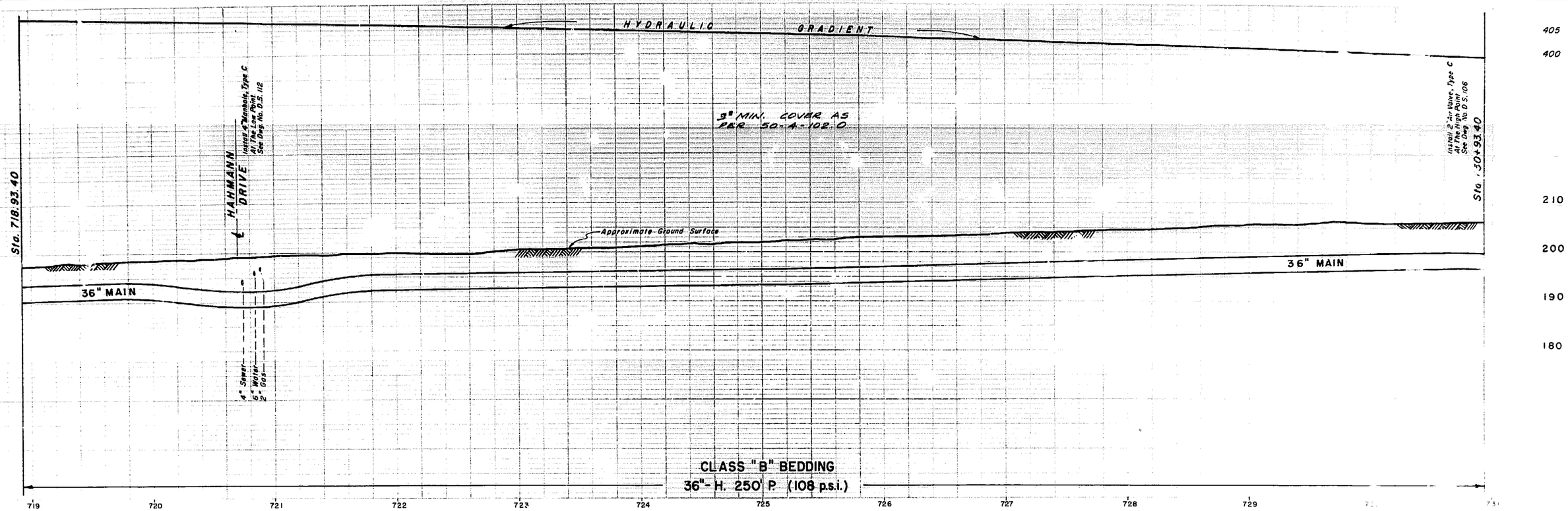
SCALE: 3/8"=1'-0" | APPROVED Gordon W. Mills CHIEF ENGINEER | DRAWN kwp
DATE: AUG 16, '68

SONOMA COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT

DESIGNED | DRAWING NUMBER 50-2-102.20

MICROFILMED

PH 11-4D



Return to Revised Index

Approved Robert Van Guelpen
Robert Van Guelpen
City Engineer
City of Santa Rosa

AS BUILT
Date 1-26-60
By

No.	DATE	REVISION	By

FRANK B. SARLES
CONSULTING CIVIL ENGINEER – SANTA ROSA, CALIFORNIA

APPROVED Frank B. Sarles R.C.E. 5951

DRAWN BY M.N.-J.R.-J.B. | CHECKED BY R.M.R. | DATE AUGUST, 1957

RUSSIAN RIVER AQUEDUCT No. 1
Sta. 718+93 to Sta. 730+93

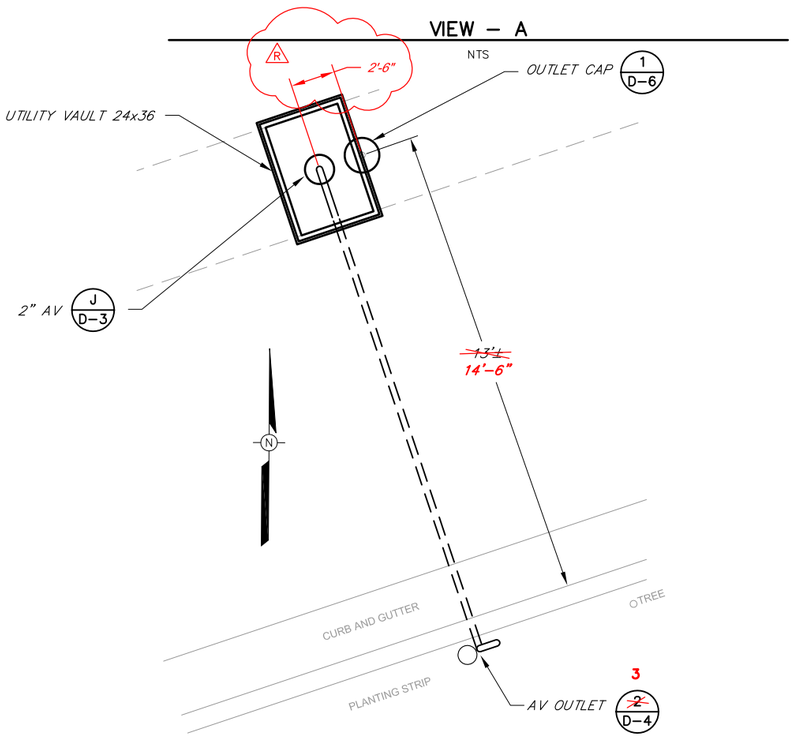
SCALE | APPROVED Gordon W. Miller CHIEF ENGINEER | DRAWN
DATE

SONOMA COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT

DESIGNED | CHECKED | DRAWING NUMBER 50-4-102.38

VIEW – A

NTS

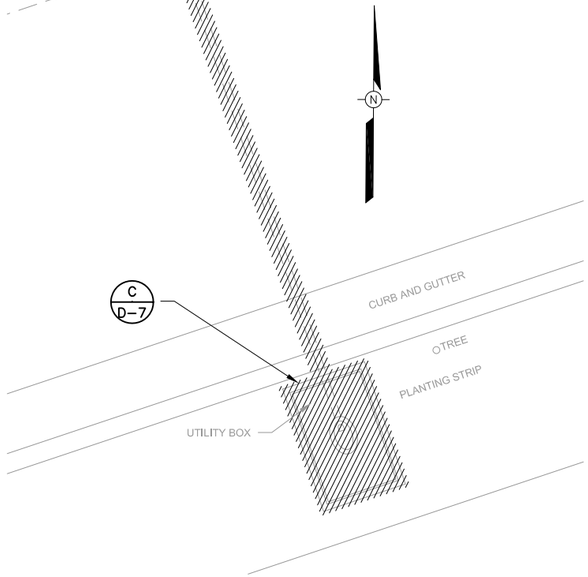


PARTIAL PLAN

NTS

SITE PLAN

SCALE: 1" =100'



DEMOLITION PLAN

NTS

PROJECT RECORD DRAWING

Prepared by:

Pipeline Excavators
P.O. Box 1755
Sebastopol, Ca 95473

(707) 824–8546

January 28, 2009

NOTE:
APPROXIMATELY 7.1 ~~3~~ FEET OF COVER OVER PIPE

Return to Revised Index

BAR LENGTH ON ORIGINAL DRAWING EQUALS ONE INCH. ADJUST SCALE ACCORDINGLY

REGISTERED PROFESSIONAL ENGINEER
DALE P. ROBERTS
No. M 029944
Exp. 6/30/08
MECHANICAL
STATE OF CALIFORNIA

REGISTERED PROFESSIONAL ENGINEER
DALE P. ROBERTS
No. C 67949
Exp. 6/30/09
CIVIL
STATE OF CALIFORNIA

NO.	DATE	REVISION	BY
	07/25/08	CONFORMED	
R	04–14–09	RECORD DRAWING ACCEPTED BY SCWA	

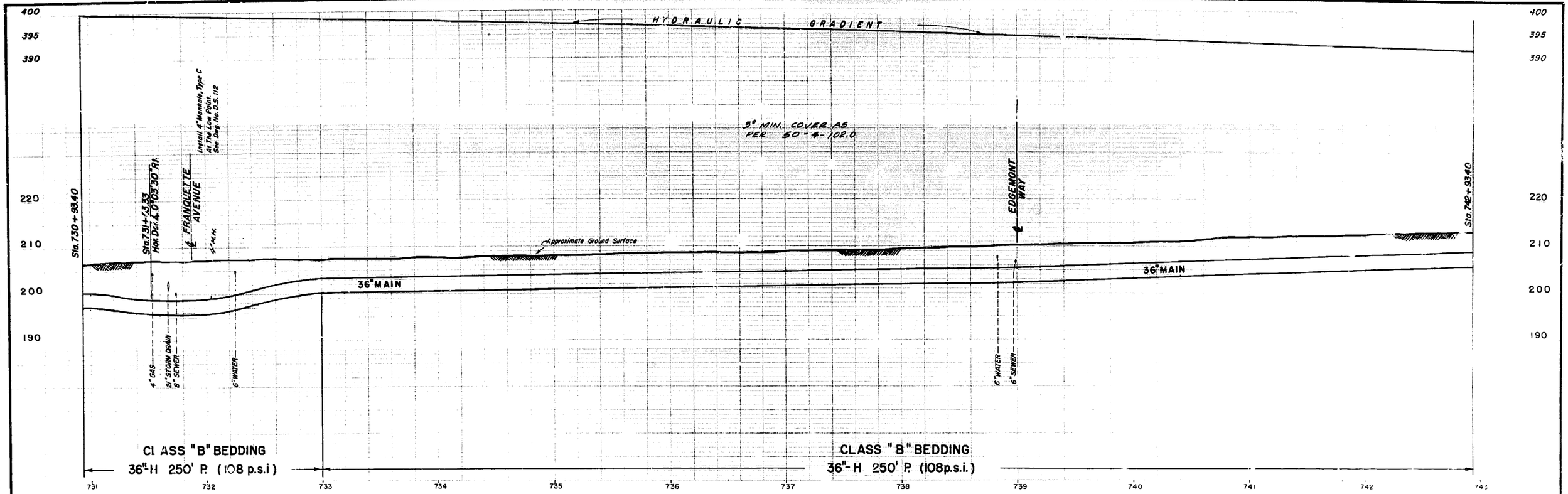
SONOMA COUNTY WATER AGENCY

SCALE : AS SHOWN
DATE : 28/05/2008
DRAWN : ADF
REVIEWED :

AIR VALVE UPGRADE PROJECT PHASE 1
SANTA ROSA AQUEDUCT
STA 730+50 SITE PLAN AND DETAILS

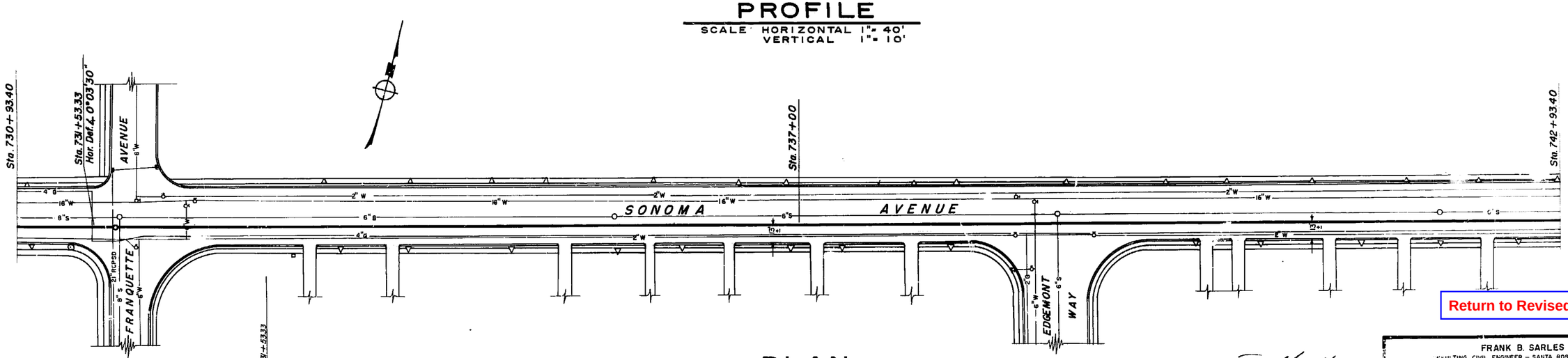
FILE NAME: 4078c26–32R.dwg
CONTRACT NUMBER: 60–4–7 #14
DRAWING NUMBER: C–30
SHEET 35 OF 63

\\Sd-data\Proj\water transmission\pipelines\4078_AV-Replacement\4078_record-dwgs\4078c26-32R.dwg



PROFILE

SCALE: HORIZONTAL 1"= 40'
VERTICAL 1"= 10'



ANGLE POINT
FIELD LOCATION
NO SCALE

PLAN

SCALE: LONGITUDINAL 1"= 40'
TRANSVERSE 1"= 40'

Return to Revised Index

Approved
Robert Van Guelpen
City Engineer
City of Santa Rosa

AS BUILT
Date 12-5-60
By

No.	DATE	REVISION	By

FRANK B. SARLES
CONSULTING CIVIL ENGINEER – SANTA ROSA, CALIFORNIA

APPROVED Frank B Sarles R C E 5951

DRAWN M.N.-J.R.-J.B. CHECKED E.M.L. DATE AUGUST, 1957

RUSSIAN RIVER AQUEDUCT No. 1

Sta. 730+93 to Sta. 742+93

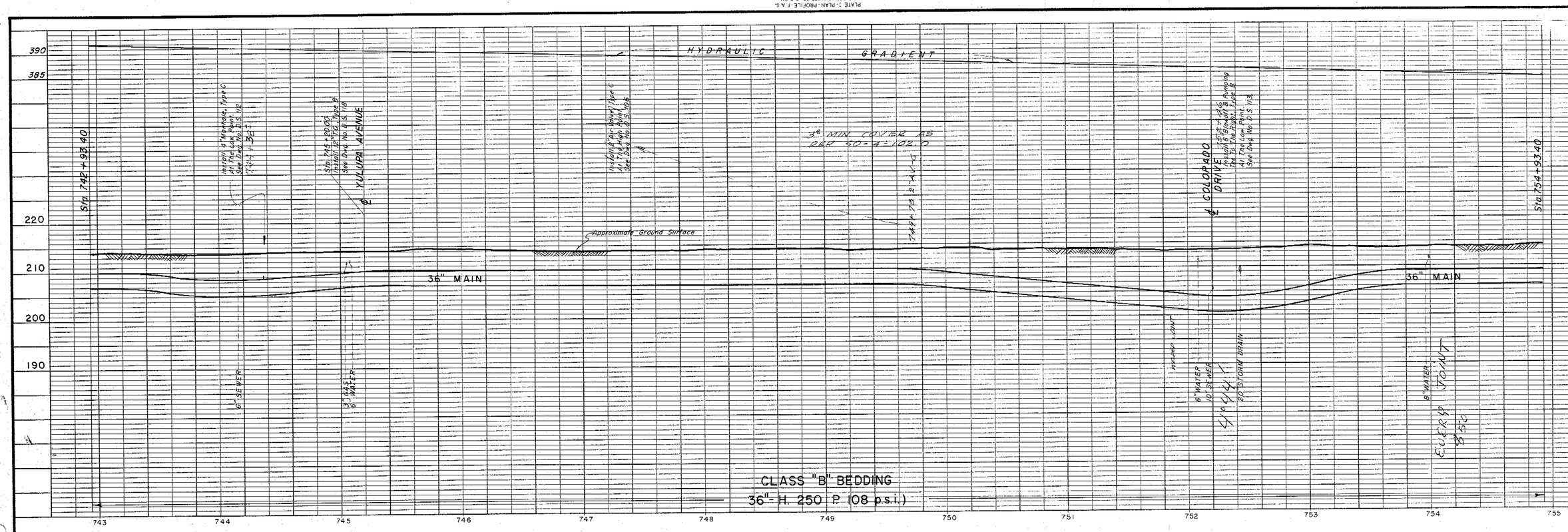
SCALE APPROVED John W Mills CHIEF ENGINEER DRAWN

DATE

SONOMA COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT

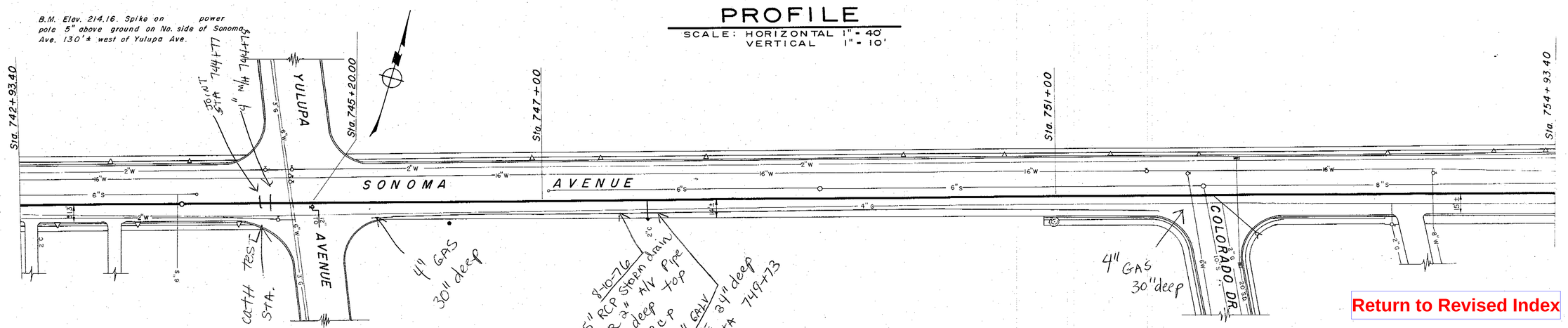
DESIGNED CHECKED DRAWING NUMBER 50-4-102 39

PLATE 1-PLAN-PROFILE-F.A.S.
CLEARPRINT PAPER CO. S. F. CAL.
No. 1000H-1



PROFILE

SCALE: HORIZONTAL 1" = 40'
VERTICAL 1" = 10'



PLAN

SCALE: LONGITUDINAL 1" = 40'
TRANSVERSE 1" = 40'

Approved Robert Van Quekelberghe
Robert Van Quekelberghe
City Engineer
City of Santa Rosa

AS BUILT
Date 1-26-62
By

No.	DATE	REVISION	By
1	12/57	Bench mks, & pts, ref pts. added	VT

FRANK B. SARLES
CONSULTING CIVIL ENGINEER - SANTA ROSA, CALIFORNIA

APPROVED Frank B. Sarles R.C.E. 881

DRAWN BY M.N.-J.R.-J.B. | CHECKED BY | DATE AUGUST

RUSSIAN RIVER AQUEDUCT No. 1
Sta. 742+93 to Sta. 754+93

SCALE | APPROVED Nathaniel Miller CHIEF ENGINEER | DRAWN

DATE

SONOMA COUNTY FLOOD CONTROL & WATER CONSERVATION DISTRICT

DESIGNED

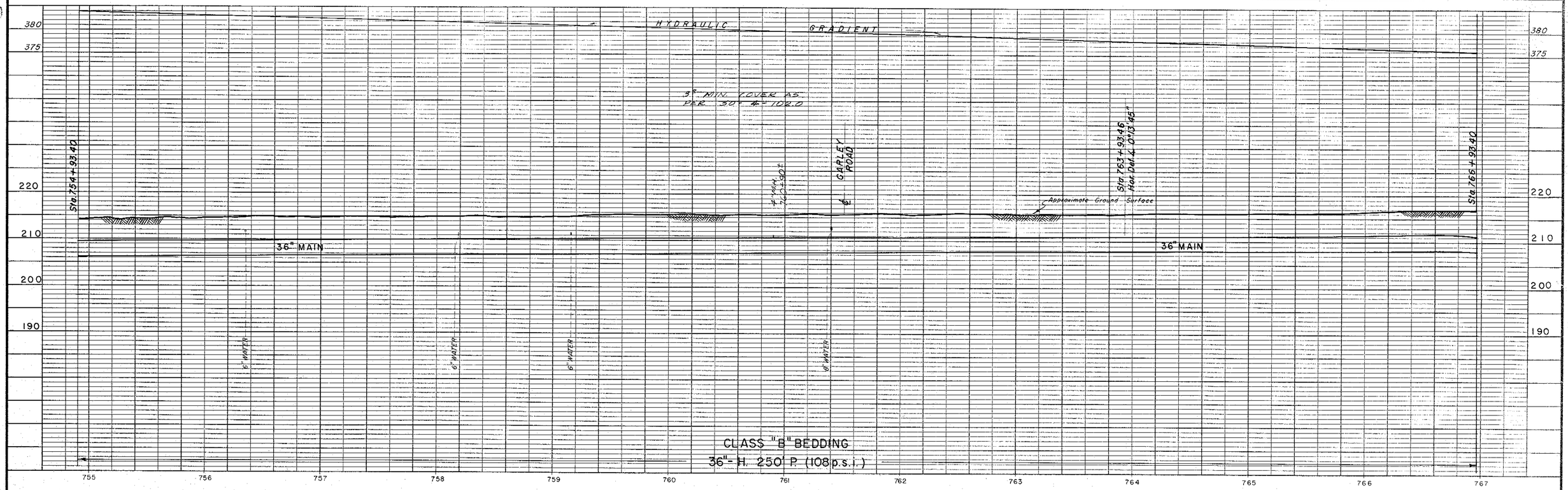
50-4-102.40

Return to Revised Index

PLATE 1-PLAN-PROFILE-F.A.S.
CLEARPRINT PAPER CO. S. F. CAL.
No. 1000H-1

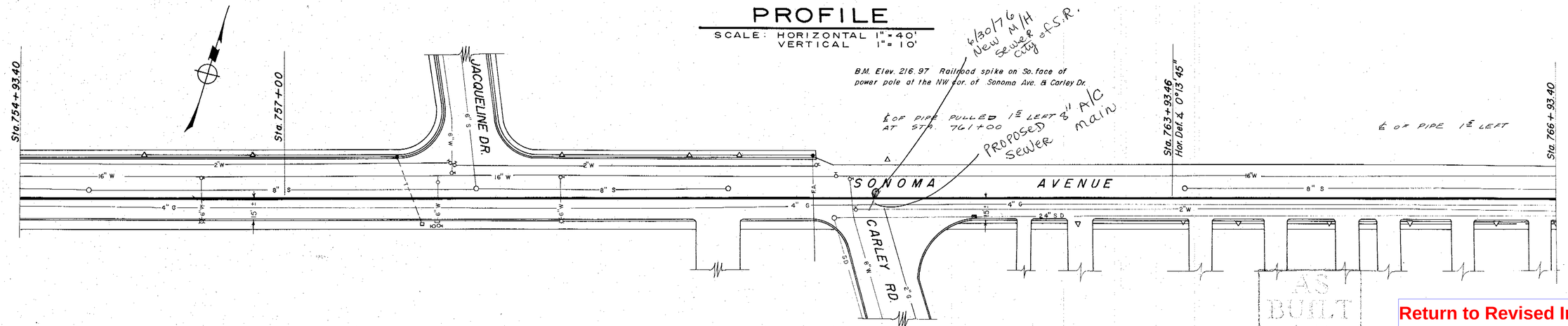
PROFILE

SCALE: HORIZONTAL 1" = 40'
VERTICAL 1" = 10'



PLAN

SCALE: LONGITUDINAL 1" = 40'
TRANSVERSE 1" = 40'



AS BUILT
Date 1-26-60
By

Approved Robert Van Guelpen
Robert Van Guelpen
City Engineer
City of Santa Rosa

Return to Revised Index

No.	DATE	REVISION	By
1	12/57	Bench mks, ℄ pts, ref. pts. added	VT

FRANK B. SARLES
CONSULTING CIVIL ENGINEER - SANTA ROSA, CALIFORNIA

APPROVED Frank B Sarles R.C.E. 5951

DRAWN BY M.N.-J.R.-J.B. CHECKED BY [illegible] DATE AUGUST, 1957

RUSSIAN RIVER AQUEDUCT No. 1

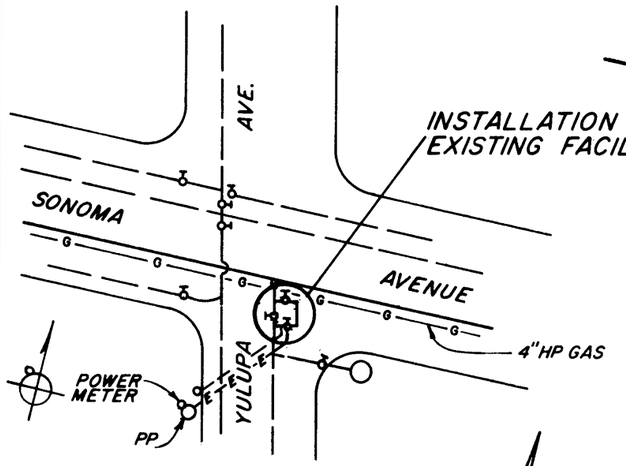
Sta. 754+93 to Sta. 766+93

SCALE: DATE: APPROVED CHIEF ENGINEER DRAWN:

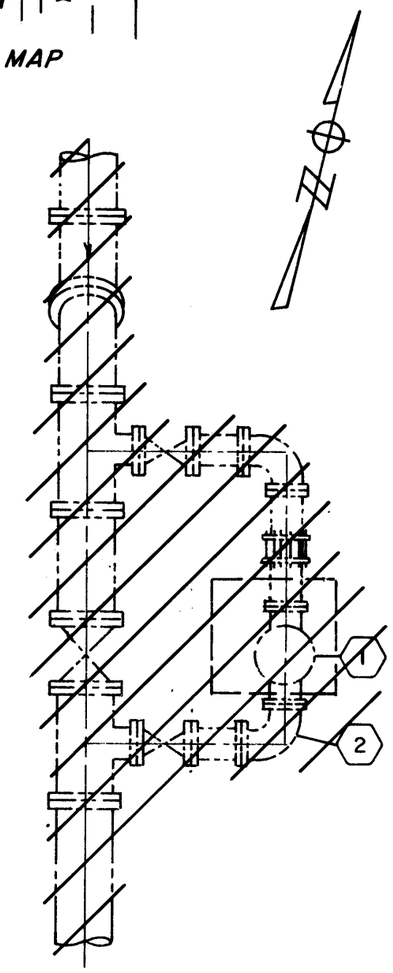
SONOMA COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT

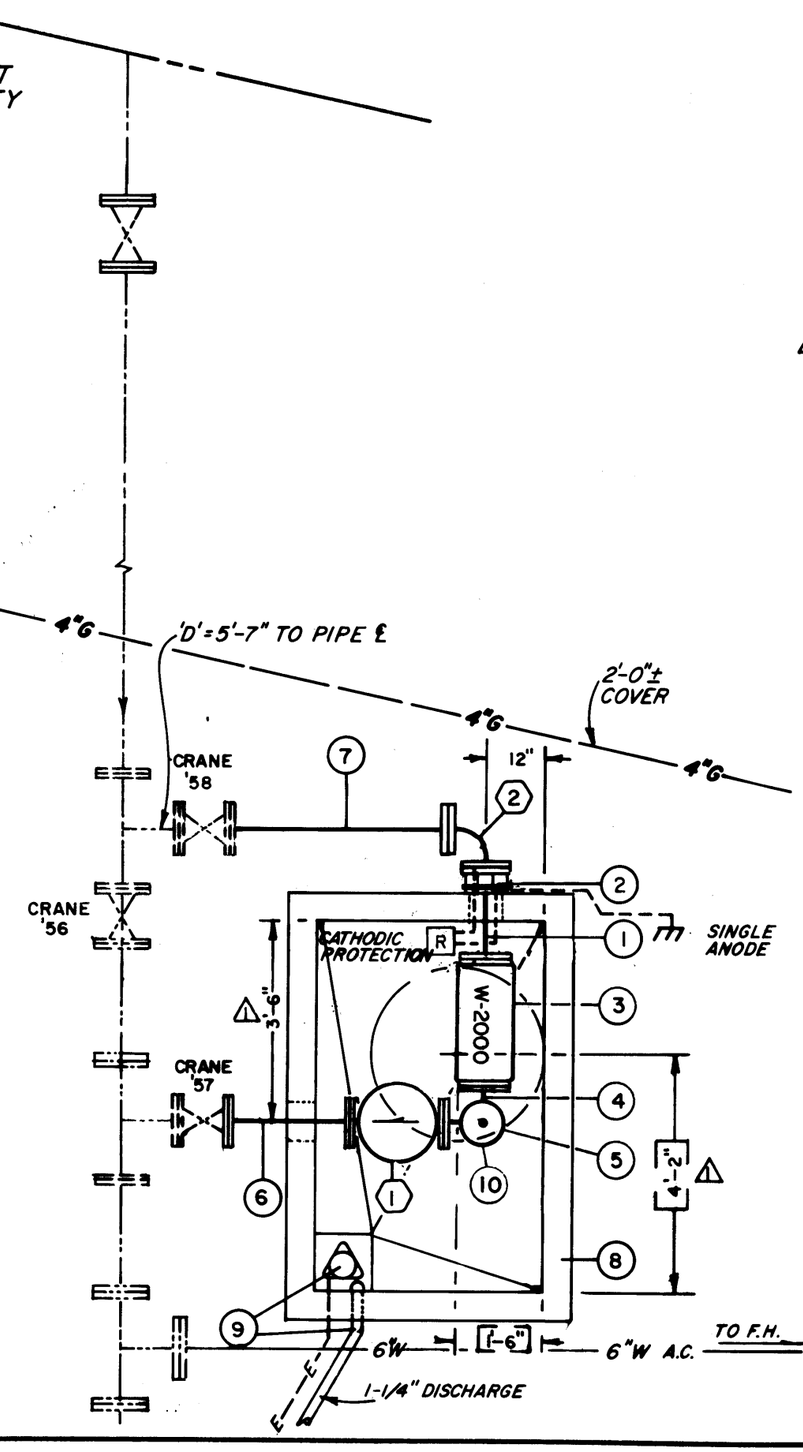
DESIGNED CHECKED DRAWING NUMBER

50-4-102.41



LOCATION MAP





SCHEDULE OF ITEMS

1	6"x 1'-4" PIPE FOE
2	6" FLANGE x 6" PLAIN END, FLANGED COUPLING ADAPTOR SMITH-BLAIR 912-6-690
3	6" ROCKWELL METER W-2000 (FURNISHED BY DISTRICT)
4	6"x 6"x 4" 90° ELL, SIDE OUTLET
5	4" BLIND FLANGE
6	6"x 1'-10" PIPE FBE
7	6"x 3'-6" PIPE FBE
8	4'-0"x 5'-6" VAULT POURED IN PLACE
9	SUMP PUMP ASSEMBLY WITH 1-1/4" DISCHARGE PIPE TO CURB SEE DWG. No. 50-2-102.24
10	PIPE SUPPORTS AS REQ'D

SCHEDULE OF ITEMS

1	6" PRESSURE REDUCER CLA-VAL
2	6"x 6" 90° ELL

AS BUILT
Date 28 MAY 70
By MED

No 5

Return to Revised Index

S.R. STA. 745+20

No.	DATE	REVISION	By
1	[illegible]	REVISED TO CLEAR EXISTING 4" GAS LINE. ITEM 7 CHANGED.	KP
1	[illegible]	CHANGED LOCATION OF PIPE KNOCKOUT	KP
1	[illegible]	CHANGED LOCATION OF MANHOLE	KP
2	6/70	UPDATED FOR 'AS BUILTS'	KP

WATER METER INSTALLATION
SONOMA AVE. & YULUPA AVE.
SANTA ROSA

SCALE: 3/8"=1'-0"
DATE: AUG. 16, '68
APPROVED Gordon W Mills CHIEF ENGINEER
DRAWN KWD K.L.L.

SONOMA COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT

DESIGNED [illegible]
DRAWING NUMBER 50-2-102.21.1

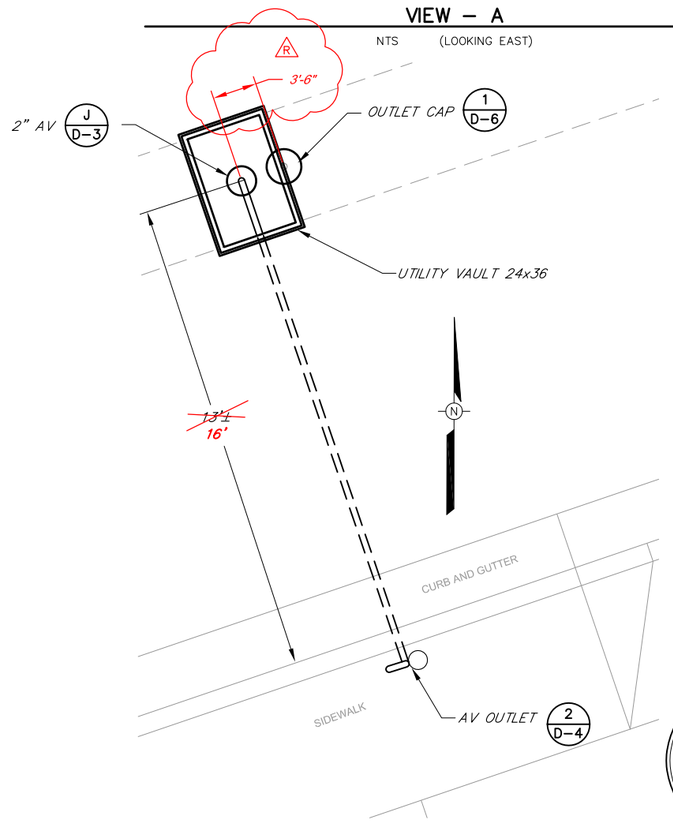
MICROFILMED

PF 1-40

PRINTED ON DIEPO NO. 1025 PAPERCLOTH

VIEW – A

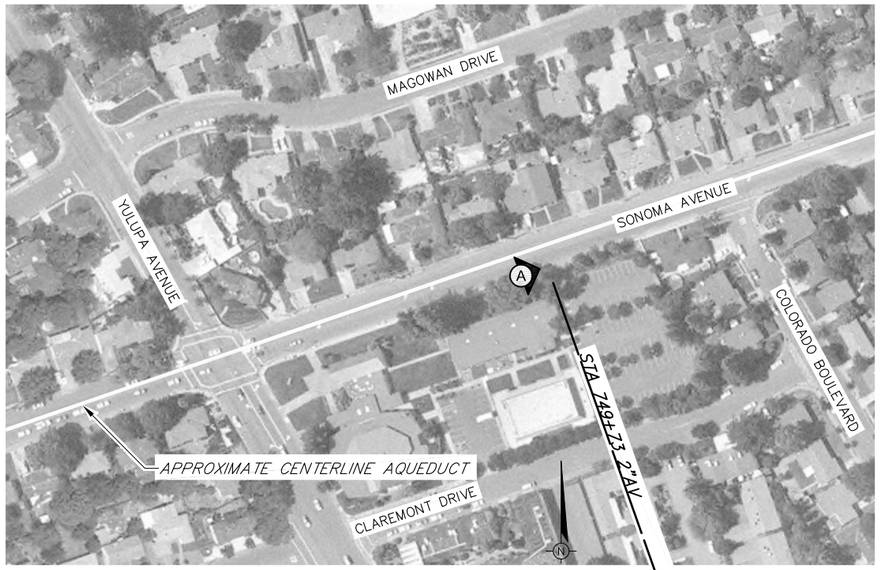
NTS (LOOKING EAST)



PARTIAL PLAN

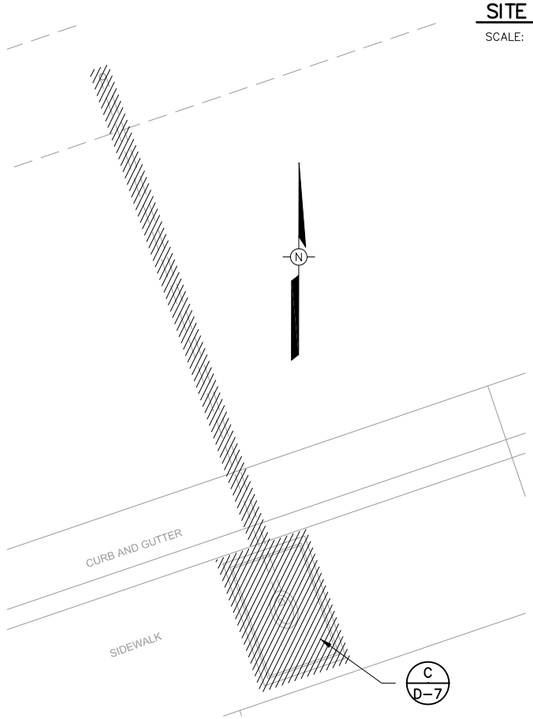
NTS

BAR LENGTH ON ORIGINAL DRAWING EQUALS ONE INCH. ADJUST SCALE ACCORDINGLY



SITE PLAN

SCALE: 1" = 100'



DEMOLITION PLAN

NTS

REGISTERED PROFESSIONAL ENGINEER
DALE P. ROBERTS
No. M 029944
Exp. 6/30/08
MECHANICAL
STATE OF CALIFORNIA

REGISTERED PROFESSIONAL ENGINEER
DALE P. ROBERTS
No. C 67949
Exp. 6/30/09
CIVIL
STATE OF CALIFORNIA

PROJECT RECORD DRAWING

Prepared by:

Pipeline Excavators
P.O. Box 1755
Sebastopol, Ca 95473

(707) 824–8546

January 28, 2009

NOTE:
APPROXIMATELY 4 FEET OF COVER OVER PIPE

Return to Revised Index

NO.	DATE	REVISION	BY
	07/25/08	CONFORMED	
R	04–14–09	RECORD DRAWING ACCEPTED BY SCWA	

SONOMA COUNTY WATER AGENCY

SCALE : AS SHOWN | DATE : 28/05/2008

DRAWN : ADF

REVIEWED :

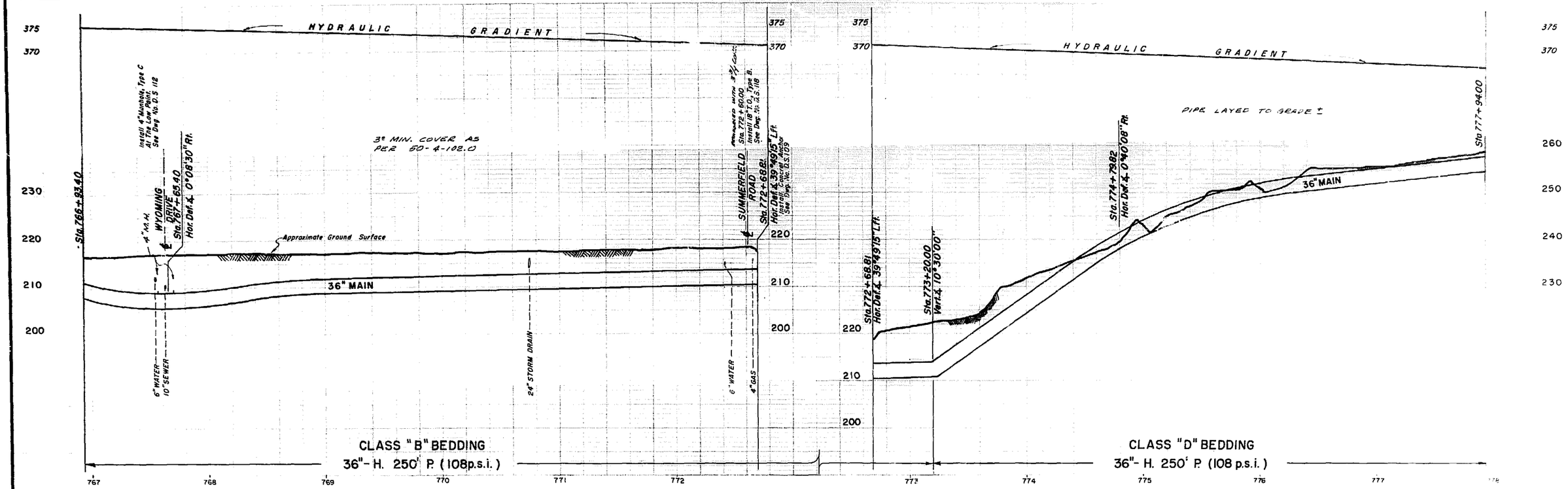
AIR VALVE UPGRADE PROJECT PHASE 1
SANTA ROSA AQUEDUCT
STA 749+73 SITE PLAN AND DETAILS

FILE NAME: 4078c26–32R.dwg
CONTRACT NUMBER: 60–4–7 #14

DRAWING NUMBER: C–31

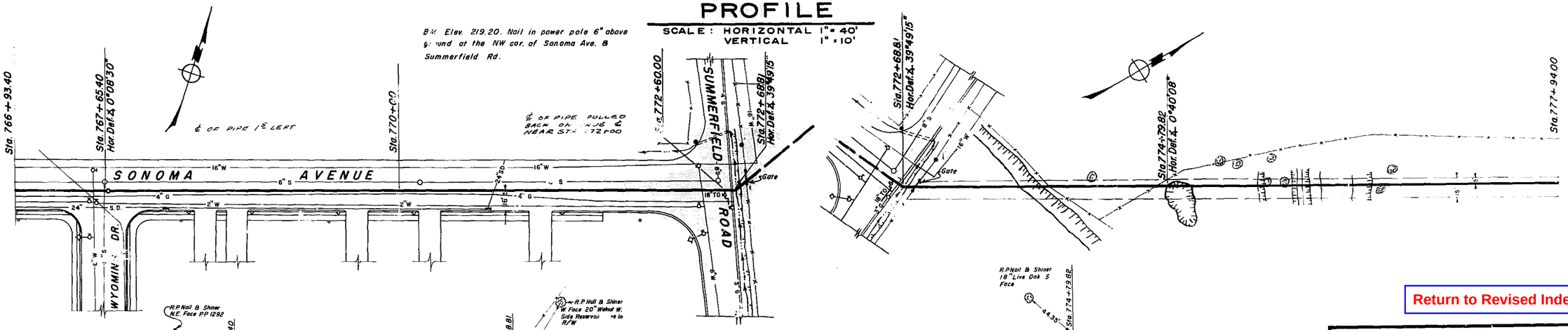
SHEET 36 OF 63

\\Sd-data\Proj\water transmission\pipelines\4078_AV-Replacement\4078_record-dwgs\4078c26-32R.dwg



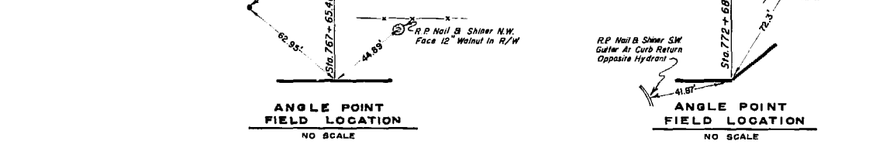
PROFILE

SCALE: HORIZONTAL 1"=40'
VERTICAL 1"=10'

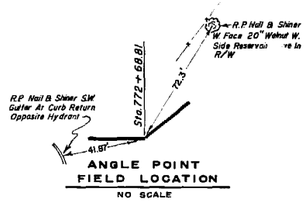


PLAN

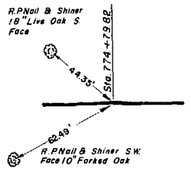
SCALE: LONGITUDINAL 1"=40'
TRANSVERSE 1"=40'



ANGLE POINT FIELD LOCATION
NO SCALE



ANGLE POINT FIELD LOCATION
NO SCALE



ANGLE POINT FIELD LOCATION
NO SCALE

AS BUILT
Date 1-26-60
By

Approved Robert Van Guelpen
Robert Van Guelpen
City Engineer
City of Santa Rosa

Return to Revised Index

FRANK B. SARLES
CONSULTING CIVIL ENGINEER - SANTA ROSA, CALIFORNIA

APPROVED Frank B Sarles R.C.E. 5951

DRAWN BY M.N.-J.R.-J.B. | CHECKED BY F.M.R. | DATE AUGUST, 1957

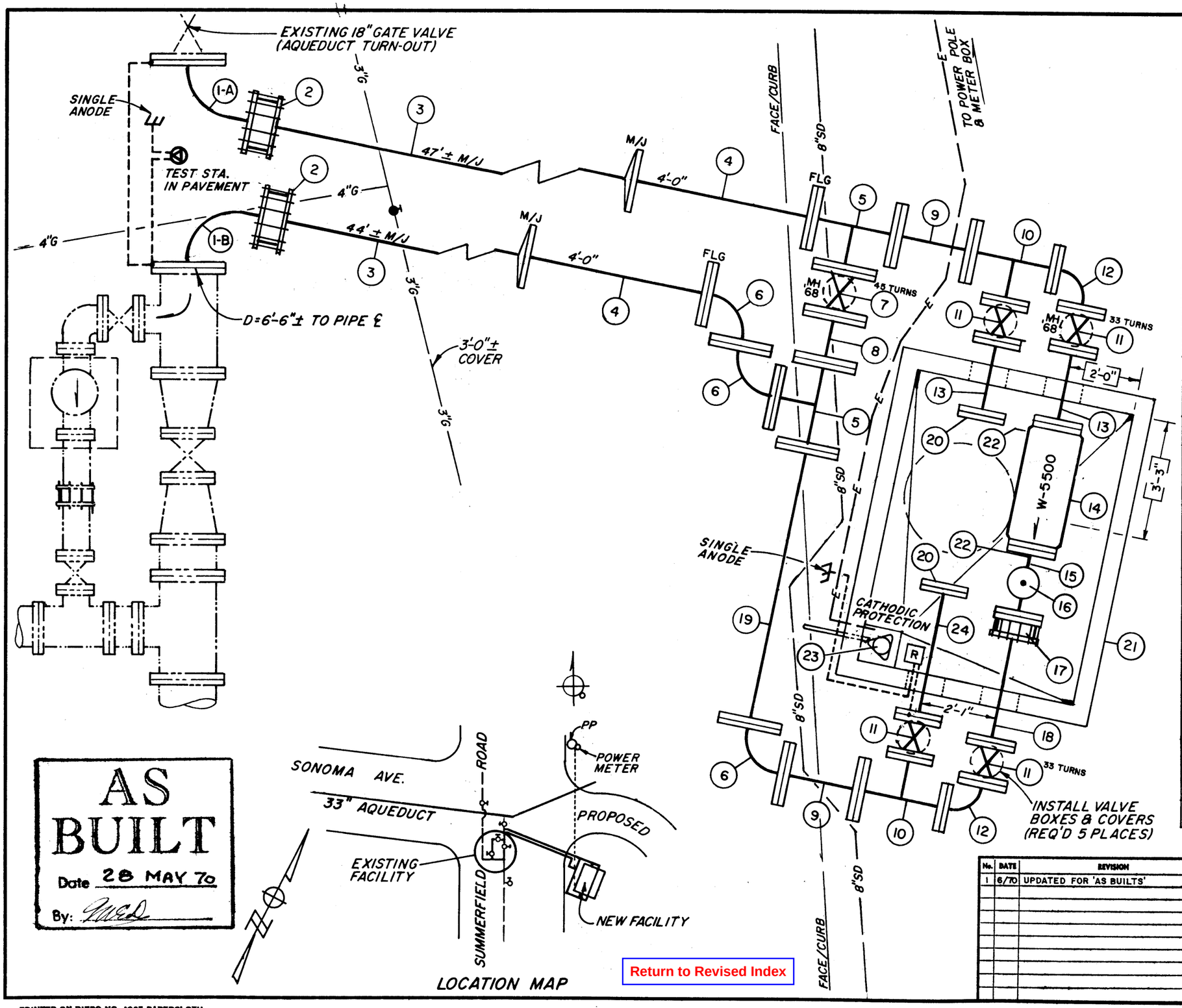
No.	DATE	REVISION	By
1	12/57	Bench mks, & pts, ref. pts. added	V.T.

RUSSIAN RIVER AQUEDUCT No. 1
Sta. 766+93 to Sta. 777+94

SCALE | APPROVED Carlos M. Smith CHIEF ENGINEER | DRAWN
DATE

SONOMA COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT

DESIGNED | CHECKED | DRAWING NUMBER 50-4-102 42



AS BUILT
Date 28 MAY 70
By:

SCHEDULE OF ITEMS

(1-A) (1-B)	18"x14" REDUCING ELLS, SPECIAL FABRICATION FOE x PE EPOXY COATED (1-A) = 79° (1-B) = 101°
(2)	14" PIPE COUPLING, SMITH-BLAIR (2 PLACES)
(3)	14" PIPE, LENGTH TO SUIT M/J
(4)	14"x4'-0" PIPE FOE (2 PLACES)
(5)	14" x 14" x 14" TEE (2 REQ'D)
(6)	14" x 14" 90° ELL (3 REQ'D)
(7)	14" GATE VALVE
(8)	14" PIPE, LENGTH TO SUIT FBE (1'-4"±)
(9)	14" x 1'-1-1/2" PIPE FBE (2 REQ'D)
(10)	14" x 10" x 10" TEE (2 REQ'D)
(11)	10" GATE VALVE (4 REQ'D)
(12)	10" x 10" 90° ELL (2 REQ'D)
(13)	10" x 1'-10" PIPE FBE (2 REQ'D)
(14)	10" ROCKWELL METER W-5500 (BY DISTRICT)
(15)	10" x 10" x 6" TEE
(16)	6" BLIND FLANGE
(17)	10" FLANGE x 10" PLAIN END, FLANGED COUPLING ADAPTOR SMITH-BLAIR 912-10-1110
(18)	10" PIPE, LENGTH TO SUIT FOE (3'-6"±)
(19)	14" PIPE, LENGTH TO SUIT FBE (7'-8"±)
(20)	10" BLIND FLANGE (2 REQ'D)
(21)	6'-0" x 8'-0" PRE-CAST VAULT, BROOKS 850
(22)	PIPE SUPPORTS (2 REQ'D)
(23)	SUMP PUMP ASSEMBLY WITH 1-1/4" DISCHARGE PIPE TO CURB SEE DWG. No. 50-2-102.24
(24)	10"x3'-6" PIPE FBE

W-5

No.	DATE	REVISION	By
1	6/70	UPDATED FOR 'AS BUILTS'	KP

S.R. STA. 772+60

WATER METER INSTALLATION SONOMA AVE. & SUMMERFIELD RD. SANTA ROSA

SCALE: 3/8"=1'-0"
DATE: AUG. 16, 68
APPROVED [signature] CHIEF ENGINEER
DRAWN kwp
K.P.P.

SONOMA COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT

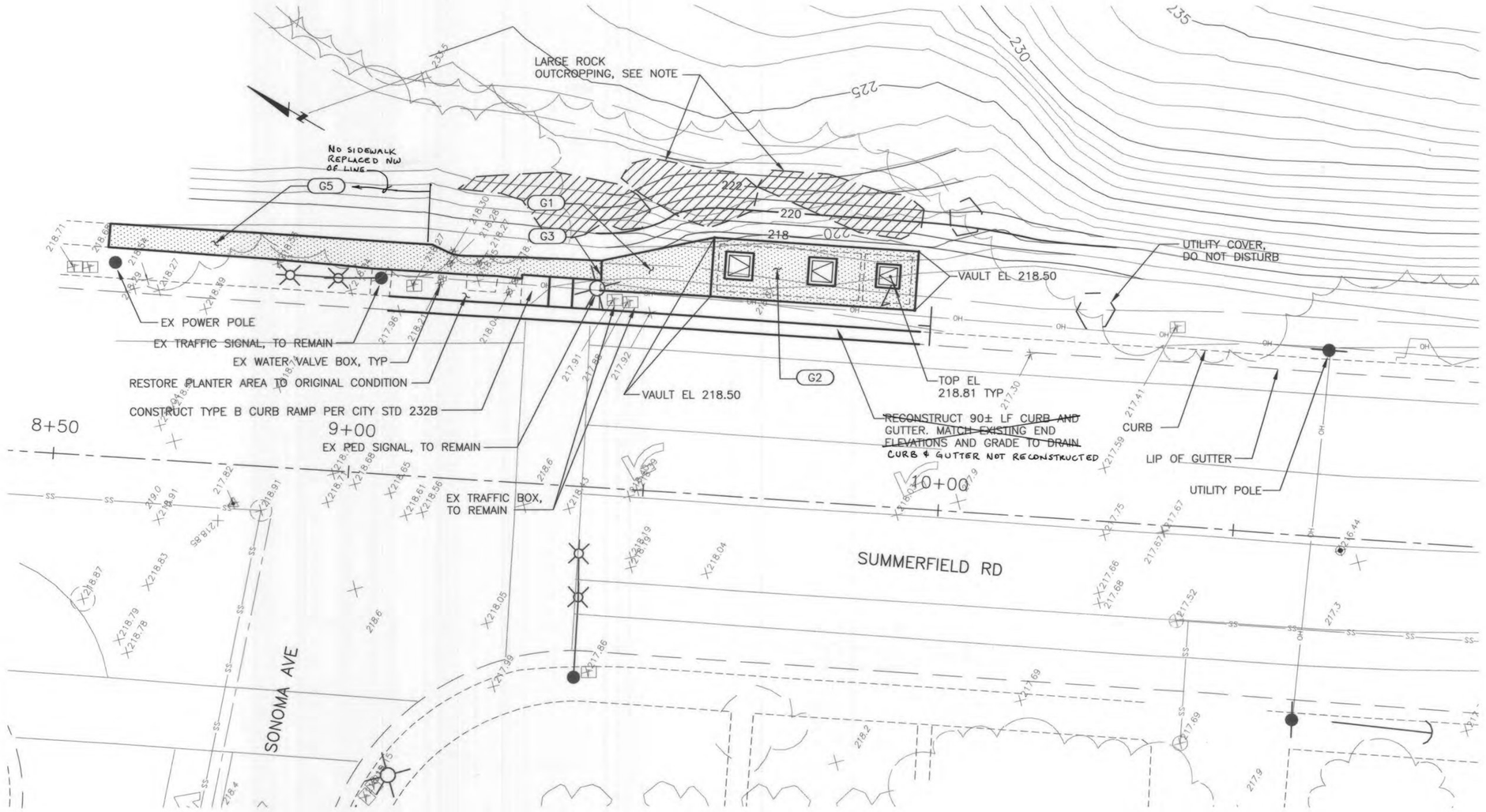
DESIGNED [signature]
DRAWING NUMBER 50-2-102.22

Return to Revised Index

PRINTED ON DIEPO NO. 1025 PAPERCLOTH

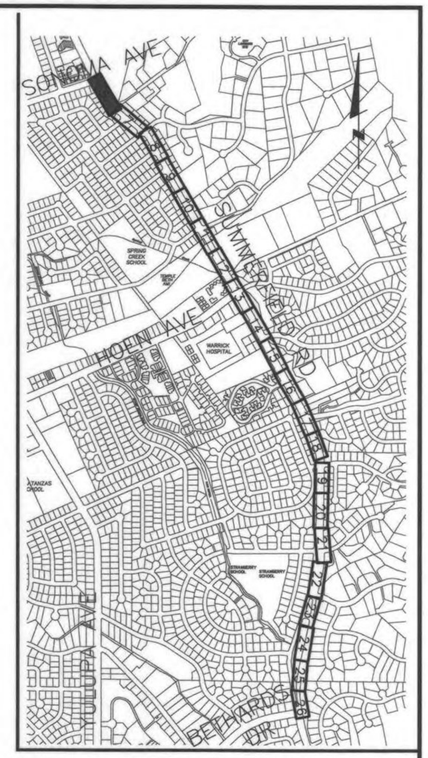
MICROFILMED

PH1-40



PLAN:
SCALE: 1" = 10'

0 10 20
SCALE IN FEET



CONSTRUCTION NOTES:

- (G1) CONSTRUCT SIDEWALK PER CITY STD 230-G
- (G2) CONCRETE SCV VAULT, SEE SHEET 35
- (G3) MATCH EX SIDEWALK ELEVATION
- (G5) RECONSTRUCT SIDEWALK PER CITY STANDARD 230-G

NOTE:
FINAL SITE GRADING MAY BE MODIFIED BY ENGINEER IF CONTRACTOR PROVIDES PROOF, TO ENGINEER'S SATISFACTION, OF ROCK OUTCROPPING INTEGRITY AND PROPOSED REVISED SITE GRADING.

Return to Revised Index

RW000146.0

RECORD PLANS

WEST YOST & ASSOCIATES
Consulting Engineers
131 A Stony Circle, Suite 400
Santa Rosa, California 95401
(707) 543-8506
FAX (707) 543-8509

REGISTERED PROFESSIONAL ENGINEER
JAMES P. CONNELLY
NO. 63052
Exp. 6-30-06
CIVIL
STATE OF CALIFORNIA
5-31-05

BAR IS ONE INCH ON ORIGINAL DRAWING

IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

No.	Date	Revision	By

CITY OF SANTA ROSA
SUMMERFIELD ROAD
WATER TRANSMISSION MAIN
SCV 18
GRADING PLAN

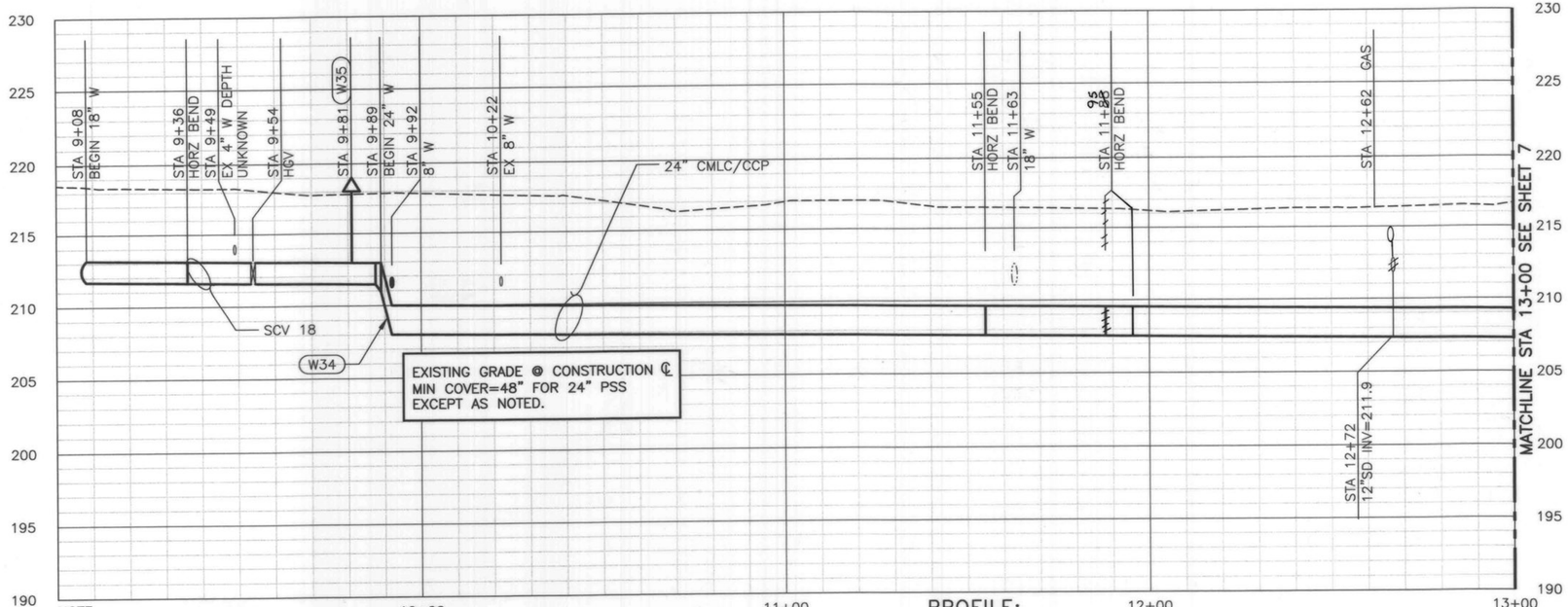
APPROVAL
By _____ Date 6/3/05
Robert Harder, Deputy Director of Engineering

Date: MAY 2005
Scale: AS SHOWN
DWN NAM
CHK JPC
Sheet 4 of 42 Sheets
File Number: 2004-027

U.I.P. 2951

SUMMERFIELD ROAD WATER TRANSMISSION MAIN

I:\701\03-04\DesignDwgs\701-0304-04.dwg 5-24-05 05:15:27 PM NMcWilliams



NOTE:
TRAFFIC SIGNAL CONDUITS, WATER, SEWER AND GAS SERVICES NOT SHOWN IN PROFILE.

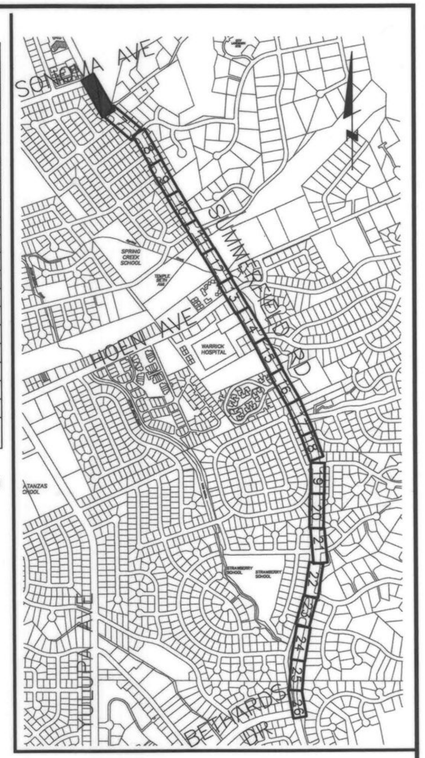
PROFILE:

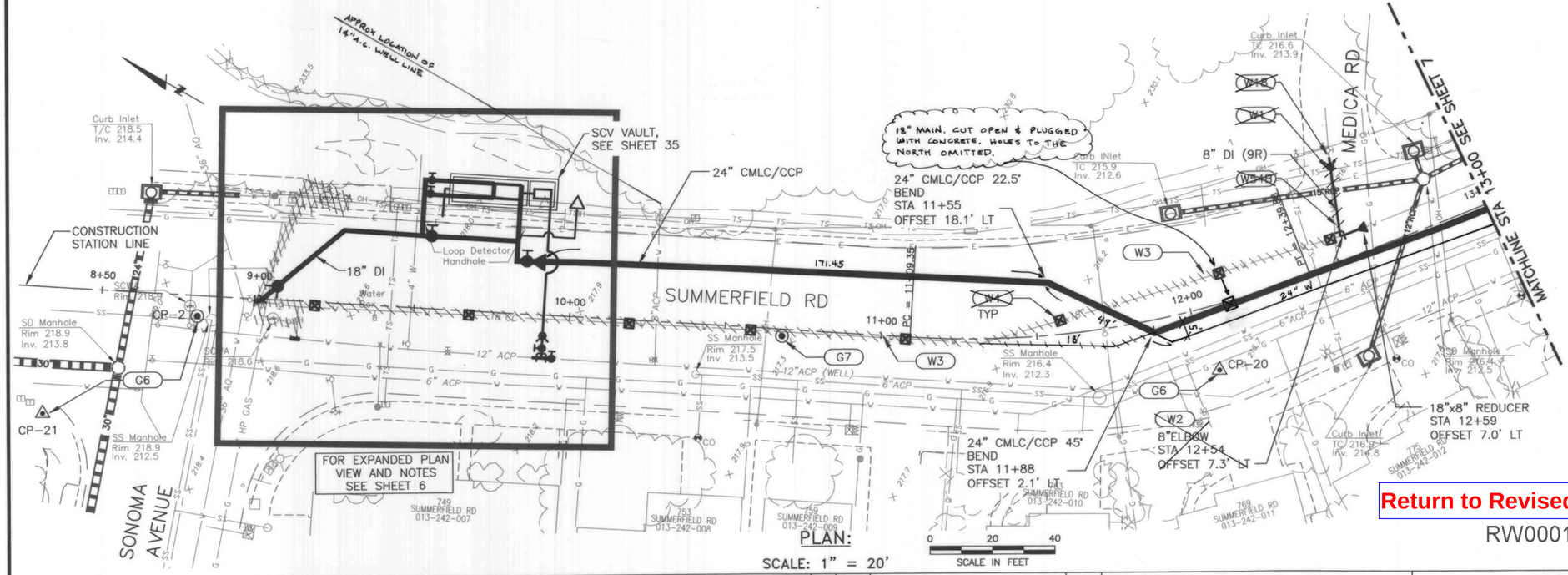
SCALE: HORIZ: 1" = 20'
VERT: 1" = 5'

ESTIMATED QUANTITIES

DESCRIPTION	QUANTITY	UNIT
8-INCH WATER MAIN	30	LF
12-INCH WATER MAIN	–	LF
16-INCH WATER MAIN	–	LF
18-INCH WATER MAIN	–	LF
24-INCH WATER MAIN	300	LF
1-INCH SINGLE SERVICE	–	EA
1-INCH DUAL SERVICE	–	EA
2-INCH WATER SERVICE	–	EA
4-INCH MANIFOLD SERVICE	–	EA
TEMP BLOW-OFF	1	EA
PERMANENT BLOW-OFF	–	EA
8-INCH GATE VALVE	–	EA
12-INCH GATE VALVE	–	EA
16-INCH GATE VALVE	–	EA
18-INCH HORZ GATE VALVE	–	EA
24-INCH GATE VALVE	–	EA
COMBINATION AIR VALVE	–	EA
PIPE DRAIN ASSEMBLY	–	EA
FIRE HYDRANT & VALVE ASSEMBLY	–	EA

NOTE: QUANTITIES DO NOT INCLUDE ITEMS WITHIN EXPANDED PLAN LIMITS.





PLAN:

SCALE: 1" = 20'

CONSTRUCTION NOTES:

- (G4) FOR CLARITY, TRAFFIC STRIPING NOT SHOWN ON THIS SHEET. SEE SHEETS 29–31
- (G6) SURVEY CONTROL POINT, SEE SHEET 3
- (G7) REPLACE EXISTING MONUMENT DAMAGED BY CONSTRUCTION. SEE GENERAL NOTE 16, SHEET 2.
- (W1) INSTALL TEMP BLOWOFF PER CITY STD 859 SEE WATER NOTE 4, SHEET 2
- (W2) CUT IN TEE, ELBOW, AND/OR VALVE(S), AS SHOWN. VALVES SHALL BE INSTALLED PER CITY STD 877. LOCATIONS ARE APPROXIMATE, VERIFY WITH ENGINEER. SEE WATER NOTE 4, SHEET 2
- (W3) ABANDON EX 18" CONCRETE CYLINDER WATER PIPE
- (W4) BREAK PIPE & FILL W/ SAND SLURRY, TYP. SEE WATER NOTE 21, SHEET 2
- (W18) EX FLGxMJ VALVE W/MJ PLUG. REMOVE PLUG TO MAKE FINAL CONNECTION. SEE WATER NOTE 4, SHEET 2
- (W34) ADJUST WATER MAIN GRADE WITH HALF LOWERING PER CITY STD 855. WITH ENGINEER'S APPROVAL, CONTRACTOR MAY ADJUST GRADE GRADUALLY WITHIN MANUFACTURER'S SPECIFICATIONS.
- (W54X) SEE PROFILE 'X' SHEET 27

Return to Revised Index

RW000146.1

RECORD PLANS

WEST YOST & ASSOCIATES
Consulting Engineers
131 A Stony Circle, Suite 400
Santa Rosa, California 95401
(707) 543-8506
FAX (707) 543-8509

REGISTERED PROFESSIONAL ENGINEER JAMES P. CONNER NO. 63052 Exp. 6-30-06 CIVIL STATE OF CALIFORNIA 5-31-05

BAR IS ONE INCH ON ORIGINAL DRAWING

IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

No.	Date	Revision	By

CITY OF SANTA ROSA
SUMMERFIELD ROAD
WATER TRANSMISSION MAIN
PLAN AND PROFILE
STA 8+50 TO 13+00

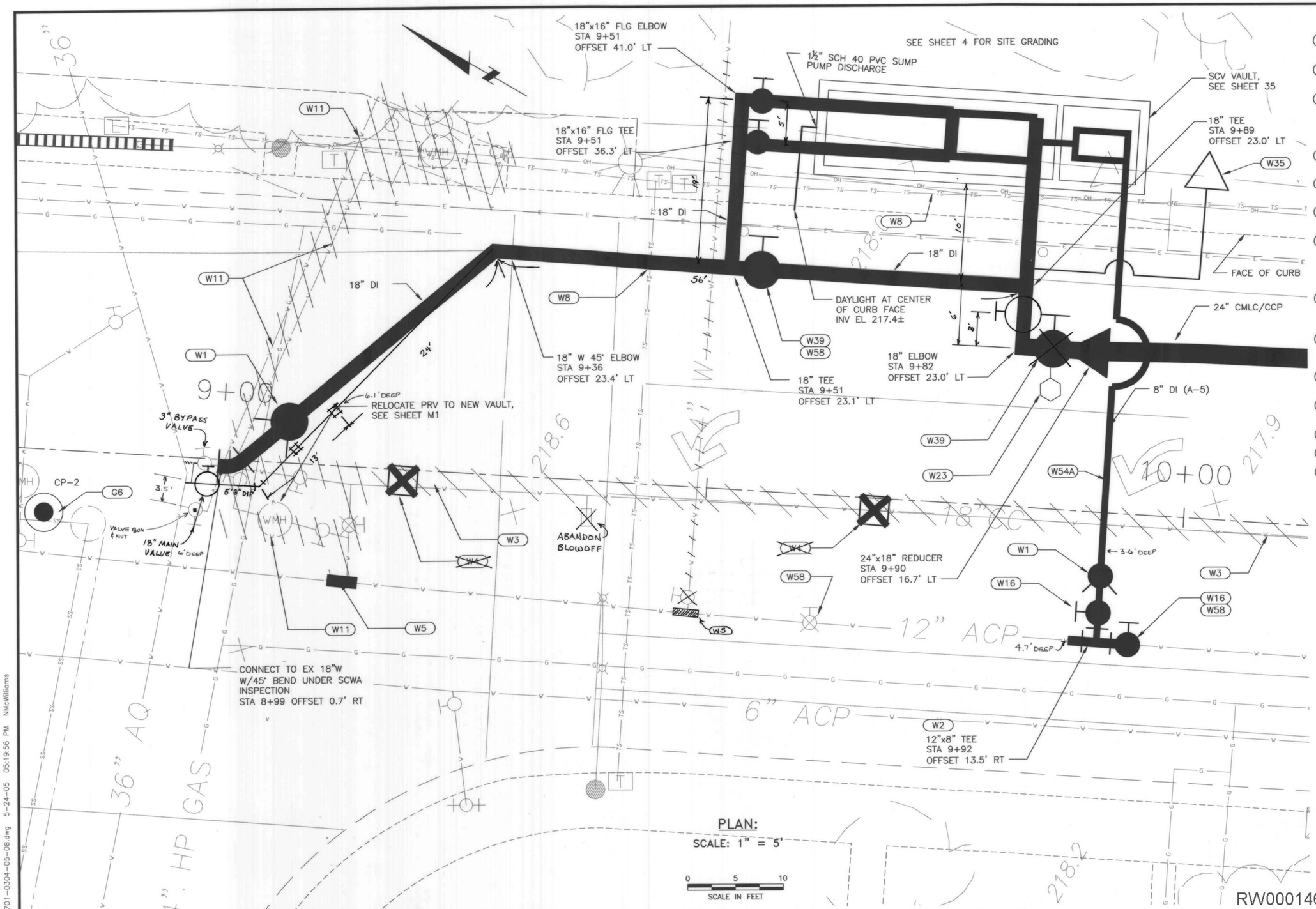
APPROVAL
By Robert Harder, Deputy Director of Engineering Date 6/3/05

Date: MAY 2005 Scale: AS SHOWN
DWN NAM CHK JPC
Sheet 5 of 42 Sheets File Number: 2004-027

U.I.P. 2951

SUMMERFIELD ROAD WATER TRANSMISSION MAIN

I:\701\03-04\DesignDwgs\701-0304-05-08.dwg 5-24-05 05:19:04 PM NMcWilliams



PLAN:
SCALE: 1" = 5'

0 5 10
SCALE IN FEET

CONSTRUCTION NOTES:

- G6 SURVEY CONTROL POINT, SEE SHEET 3
- W1 INSTALL TEMP BLOWOFF PER CITY STD 859 SEE WATER NOTE 4, SHEET 2
- W2 CUT IN TEE, ELBOW, AND/OR VALVE(S), AS SHOWN. VALVES SHALL BE INSTALLED PER CITY STD 877. LOCATIONS ARE APPROXIMATE, VERIFY WITH ENGINEER. SEE WATER NOTE 4, SHEET 2
- W3 ABANDON EX 18" CONCRETE CYLINDER WATER PIPE
- W4 BREAK PIPE & FILL W/ SAND SLURRY, TYP. SEE WATER NOTE 21, SHEET 2
- W5 REMOVE TEE, REPLACE WITH NEW PIPE AND COUPLERS, SEE WATER NOTE 4, SHEET 2
- W8 PRESERVE & PROTECT EX TRAFFIC SIGNAL FACILITIES. CONTRACTOR SHALL REPLACE LOOPS, CONDUIT & WIRE DAMAGED BY CONSTRUCTION. SEE GENERAL NOTE 22, SHEET 2
- W11 REMOVE EX WATER PIPE, VAULT, VALVES & FITTINGS IN ACCORDANCE WITH SCWA STDS, AND RESTORE SURFACE. (REMOVED TOP 3')
- W16 INSTALL 8", 12" OR 16" GATE VALVE, ACCORDING TO PIPE SIZE SHOWN ON PLAN, PER CITY STD 877
- W23 INSTALL INSULATING JOINT TEST STATION PER DETAIL 2, SHEET 37
- W35 INSTALL 2" COMBINATION AIR VALVE PER DETAIL J, SHEET 34.
- W39 INSTALL 18" GATE VALVE PER CITY STD 877
- W54X SEE PROFILE 'X' SHEET 27
- W58 VALVE WILL BE CLOSED AT COMPLETION OF PROJECT

ESTIMATED QUANTITIES

DESCRIPTION	QUANTITY	UNIT
8-INCH WATER MAIN	70	LF
12-INCH WATER MAIN	–	LF
16-INCH WATER MAIN	50	LF
18-INCH WATER MAIN	135	LF
24-INCH WATER MAIN	25	LF
1-INCH SINGLE SERVICE	–	EA
1-INCH DUAL SERVICE	–	EA
2-INCH WATER SERVICE	–	EA
4-INCH MANIFOLD SERVICE	–	EA
TEMP BLOW-OFF	2	EA
PERMANENT BLOW-OFF	–	EA
8-INCH GATE VALVE	1	EA
12-INCH GATE VALVE	1	EA
16-INCH GATE VALVE	2	EA
18-INCH GATE VALVE	2	EA
24-INCH GATE VALVE	–	EA
COMBINATION AIR VALVE	1	EA
PIPE DRAIN ASSEMBLY	–	EA
FIRE HYDRANT & VALVE ASSEMBLY	–	EA

Return to Revised Index

RECORD PLANS

RW000146.2

WEST YOST & ASSOCIATES
Consulting Engineers
131 A Stony Circle, Suite 400
Santa Rosa, California 95401
(707) 543-8506
FAX (707) 543-8509

REGISTERED PROFESSIONAL ENGINEER JAMES P. CONNER NO. 63052 Exp. 6-30-06 CIVIL STATE OF CALIFORNIA 5-31-05

BAR IS ONE INCH ON ORIGINAL DRAWING

IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

No.	Date	Revision	By

CITY OF SANTA ROSA
SUMMERFIELD ROAD
WATER TRANSMISSION MAIN
EXPANDED PLAN
SCV 18 VAULT

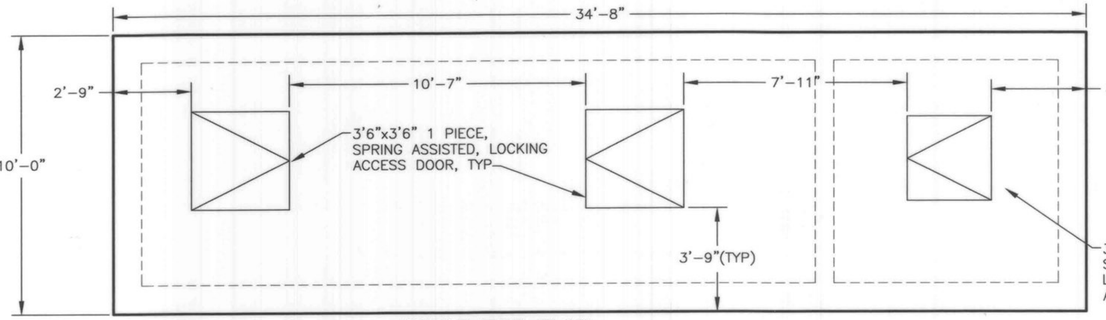
APPROVAL
By Robert Harder, Deputy Director of Engineering Date 6/3/05

Date: MAY 2005 Scale: AS SHOWN
DWN NAM CHK JPC
Sheet 6 of 42 Sheets
File Number: 2004-027

U.I.P. 2951

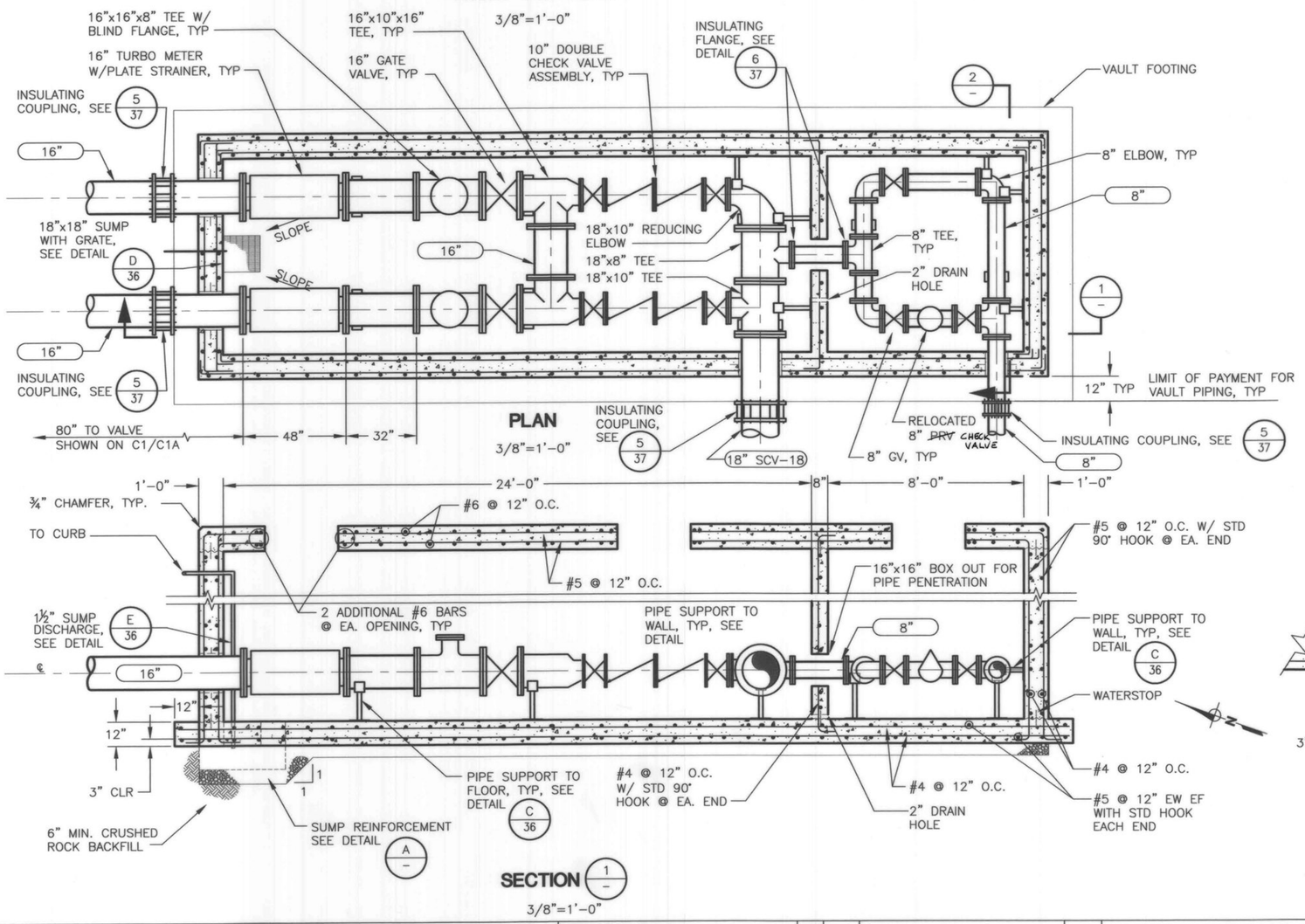
SUMMERFIELD ROAD WATER TRANSMISSION MAIN

I:\701\03-04\DesignDwgs\701-0304-05-08.dwg 5-24-05 05:19:56 PM NMcWilliams



VAULT TOP PLAN

3/8"=1'-0"

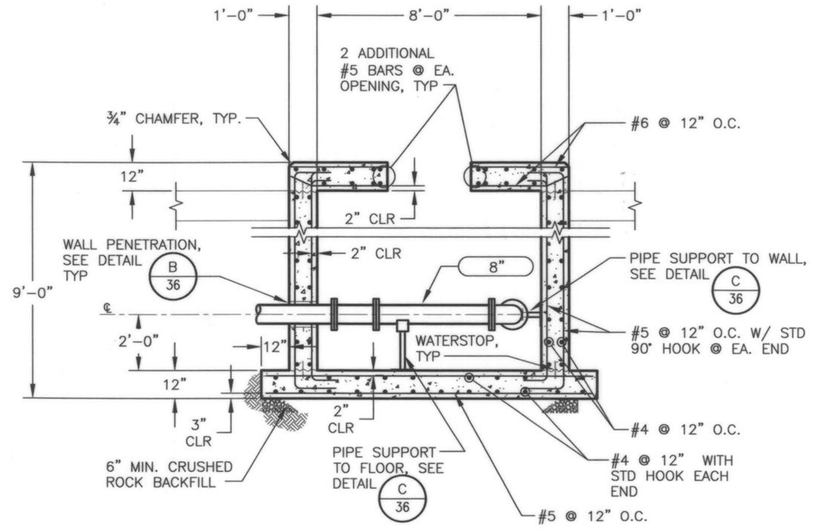


PLAN

3/8"=1'-0"

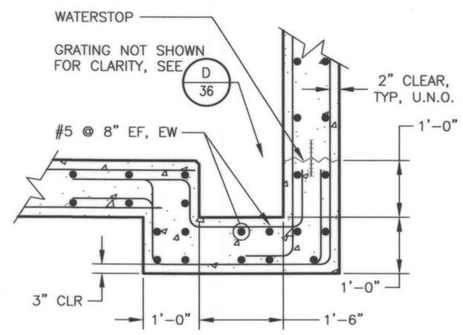
SECTION 1/—

3/8"=1'-0"



SECTION 2/—

3/8"=1'-0"



SUMP REINFORCEMENT

DETAIL A/—

NOT TO SCALE

ESTIMATED QUANTITIES

DESCRIPTION	QUANTITY	UNIT
16"x16"x8" TEE	2	EA
16-INCH TURBO METER W/PLATE STRAINER	2	EA
16-INCH GATE VALVE	2	EA
16"x10"x16" TEE	2	EA
10" DOUBLE CHECK VALVE ASSEMBLY	2	EA
18"x10" REDUCING 90° BEND	1	EA
18"x10" TEE	1	EA
18"x8" TEE	1	EA
8-INCH TEE	2	EA
8-INCH GATE VALVE	3	EA
8-INCH 90° BEND	3	EA
RELOCATED PRV	1	EA
PIPE SUPPORTS	14	EA

Return to Revised Index

RECORD PLANS

RW000146.3

WEST YOST & ASSOCIATES
Consulting Engineers
131 A Stony Circle, Suite 400
Santa Rosa, California 95401
(707) 543-8506
FAX (707) 543-8509

REGISTERED PROFESSIONAL ENGINEER JAMES P. CONNELL NO. 63052 Exp. 6-30-06 CIVIL STATE OF CALIFORNIA
5-31-05

BAR IS ONE INCH ON ORIGINAL DRAWING

IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

No.	Date	Revision	By

CITY OF SANTA ROSA
SUMMERFIELD ROAD
WATER TRANSMISSION MAIN
SCV 18 METER VAULT

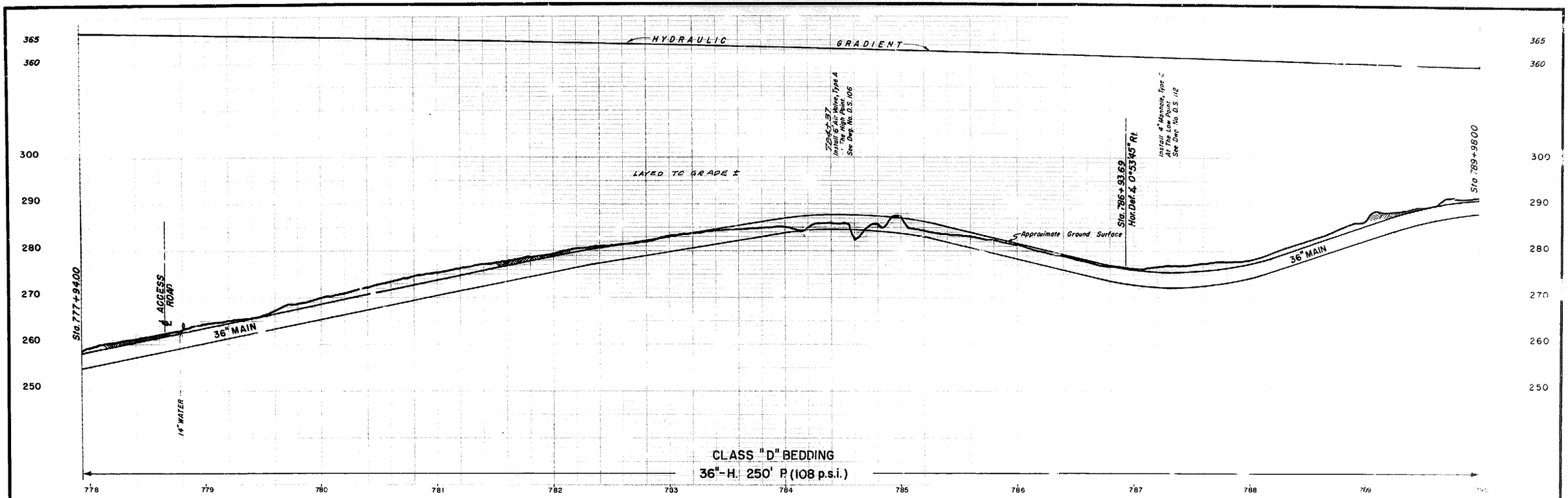
APPROVAL
By _____ Date 6/3/05
Robert Harder, Deputy Director of Engineering

Date: MAY 2005
Scale: AS SHOWN
DWN NAM
CHK JPC
Sheet 35 of 42 Sheets
File Number: 2004-027

U.I.P. 2951

SUMMERFIELD ROAD WATER TRANSMISSION MAIN

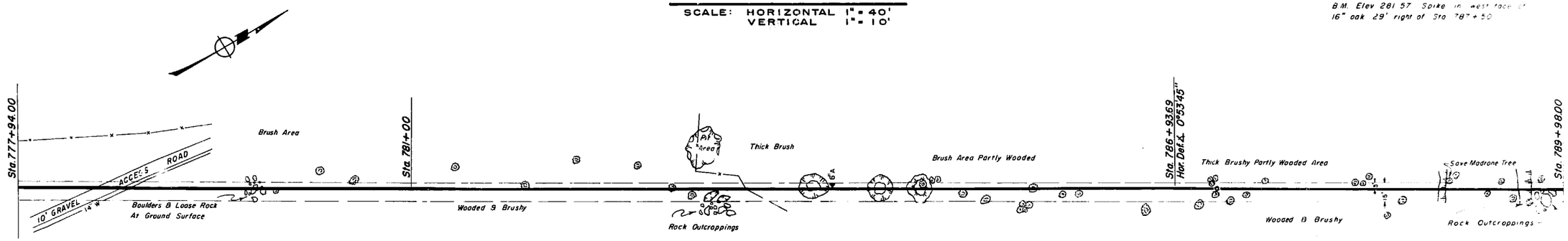
I:\701\03-04\DesignDwgs\701-0304-35.dwg 5-24-05 04:50:49 PM NMcWilliams



PROFILE

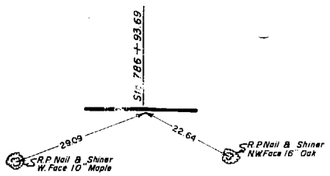
SCALE: HORIZONTAL 1" = 40'
VERTICAL 1" = 10'

B.M. Elev 281.57 Spike in west face of 16" oak 29' right of Sta 787+50



PLAN

SCALE: LONGITUDINAL 1" = 40'
TRANSVERSE 1" = 40'



ANGLE POINT FIELD LOCATION
NO SCALE

AS BUILT
Date 1-26-60
By:

Approved Robert Van Guelpen
Robert Van Guelpen
City Engineer
City of Santa Rosa

No.	DATE	REVISION	By
1	12/57	Bench mks, & pts, ref. pts. added	VT

FRANK B. SARLES
CONSULTING CIVIL ENGINEER - SANTA ROSA, CALIFORNIA

APPROVED Frank B. Sarles R C E 5951

DRAWN BY M.N.-J.R.-J.B. | CHECKED BY | DATE AUGUST, 1957

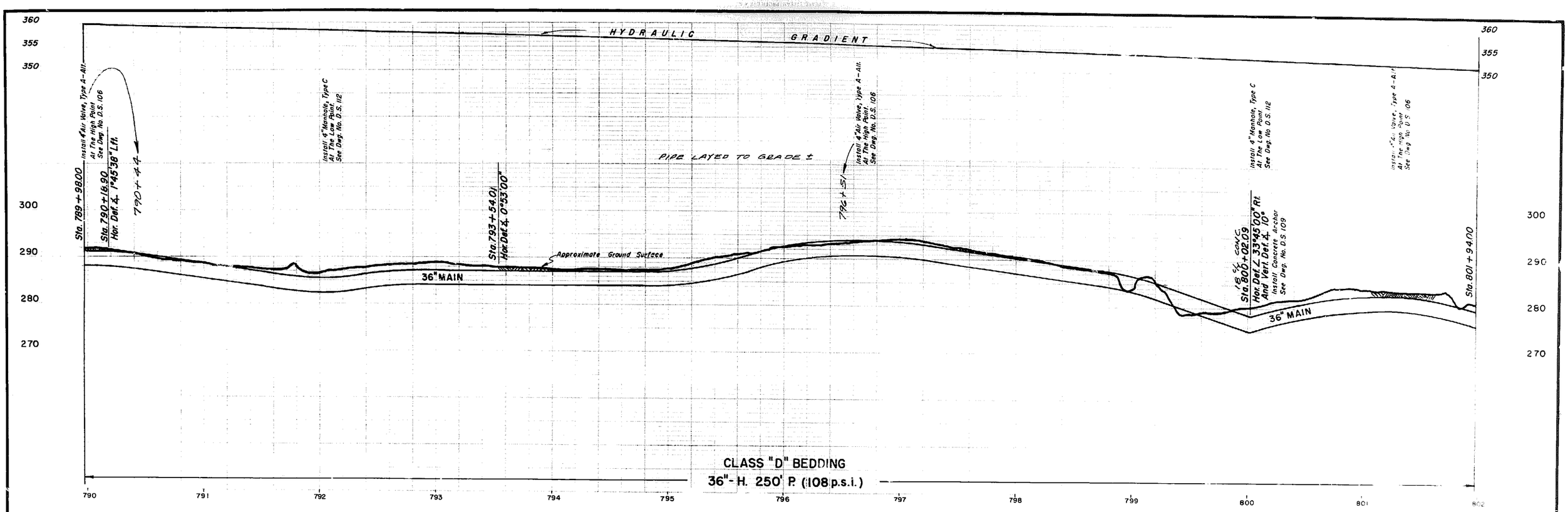
RUSSIAN RIVER AQUEDUCT No. 1
Sta. 777+94 to Sta. 789+98

SCALE | APPROVED | DRAWN
DATE | CHIEF ENGINEER

SONOMA COUNTY FLOOD CONTROL AND WATER CONSERVATION DIST.

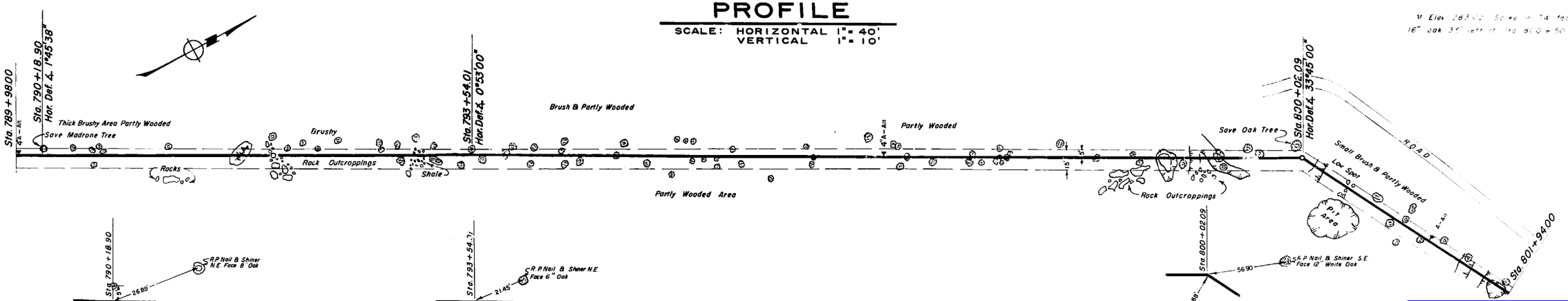
DESIGNED | CHECKED | DRAWING NUMBER 50-4-102.43

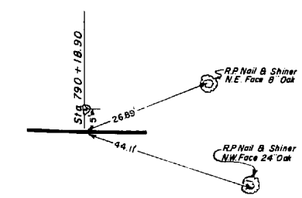
Return to Revised Index



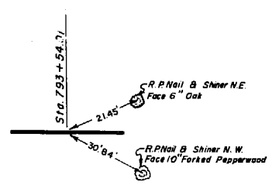
PROFILE

SCALE: HORIZONTAL 1"= 40'
VERTICAL 1"= 10'





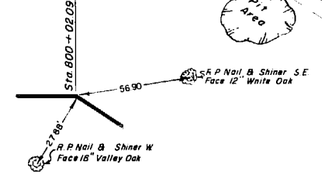
ANGLE POINT
FIELD LOCATION
NO SCALE



ANGLE POINT
FIELD LOCATION
NO SCALE

PLAN

SCALE: LONGITUDINAL 1"= 40'
TRANSVERSE 1"= 40'



ANGLE POINT
FIELD LOCATION
NO SCALE

AS BUILT
Date 1-26-60
By:

Approved Robert Van Guelpen
Robert Van Guelpen
City Engineer
City of Santa Rosa

No.	DATE	REVISION	By
1	12/57	Bench mks, Δ. pts, ref. pts. added	VT

FRANK B. SARLES
CONSULTING CIVIL ENGINEER - SANTA ROSA, CALIFORNIA

APPROVED Frank B. Sarles R.C.E. 5951

DRAWN BY MN-JR-JB | CHECKED BY [illegible] | DATE AUGUST, 1957

RUSSIAN RIVER AQUEDUCT No. 1

Sta. 789+98 to Sta. 801+94

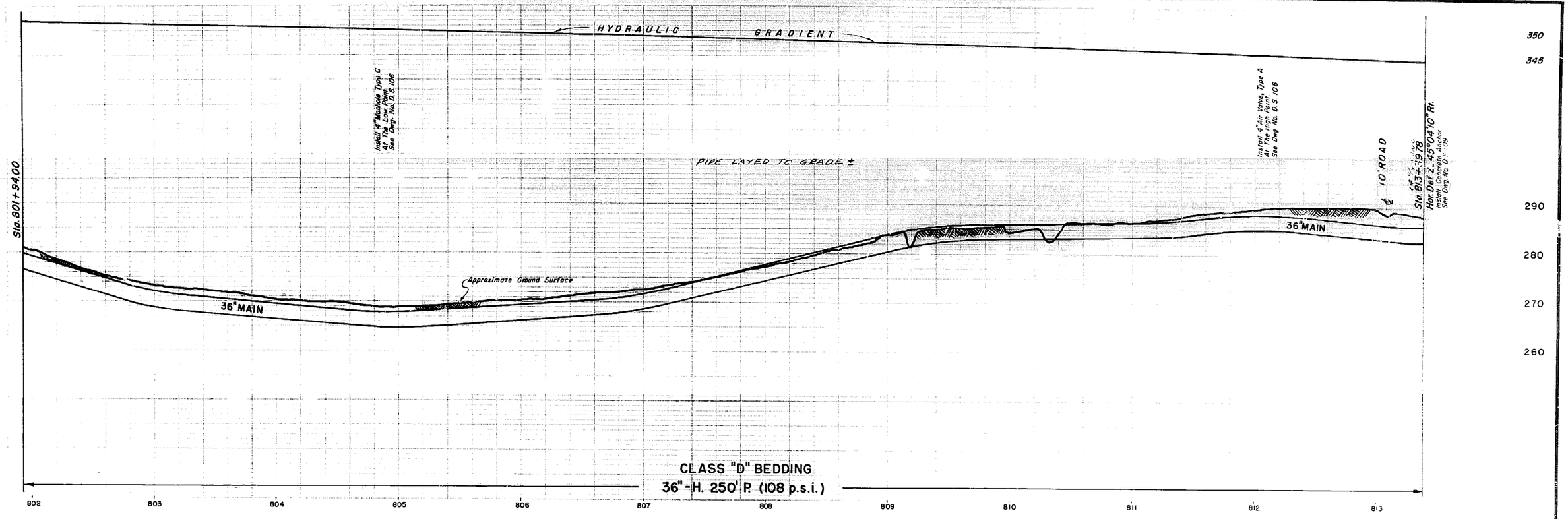
SCALE | APPROVED [illegible] CHIEF ENGR. | DRAWN

DATE

SONOMA COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT

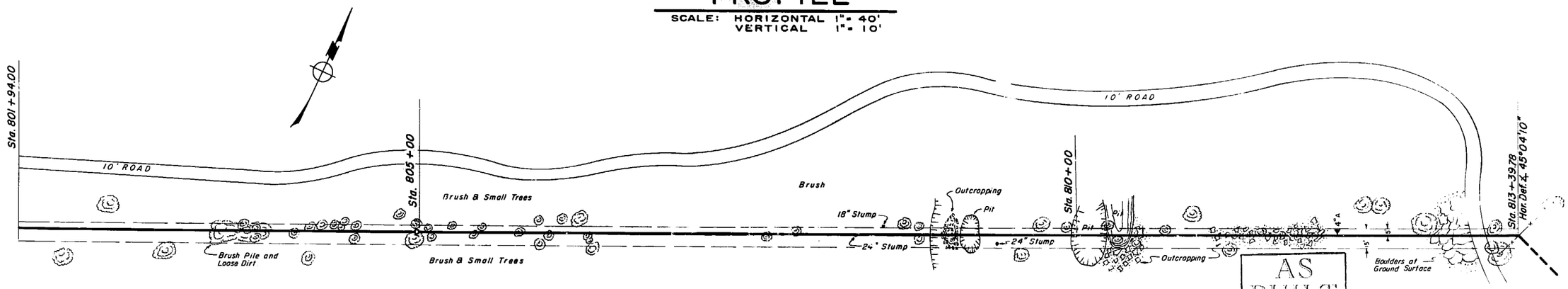
DESIGNED | CHECKED | DRAWING NUMBER 50-4-102.44

Return to Revised Index



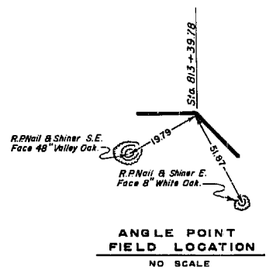
PROFILE

SCALE: HORIZONTAL 1"= 40'
VERTICAL 1"= 10'



PLAN

SCALE: LONGITUDINAL 1"= 40'
TRANSVERSE 1"= 40'



ANGLE POINT FIELD LOCATION
NO SCALE

AS BUILT
Date 12-60
By

Approved Robert Van Guelpen
Robert Van Guelpen
City Engineer
City of Santa Rosa

No.	DATE	REVISION	By

Return to Revised Index

FRANK B. SARLES
CONSULTING CIVIL ENGINEER - SANTA ROSA, CALIFORNIA

APPROVED Frank B. Sarles R C E 5951

DRAWN BY	CHECKED BY	DATE
M.N - J.R - J.B.	M.R.	AUGUST, 19

RUSSIAN RIVER AQUEDUCT No. 1

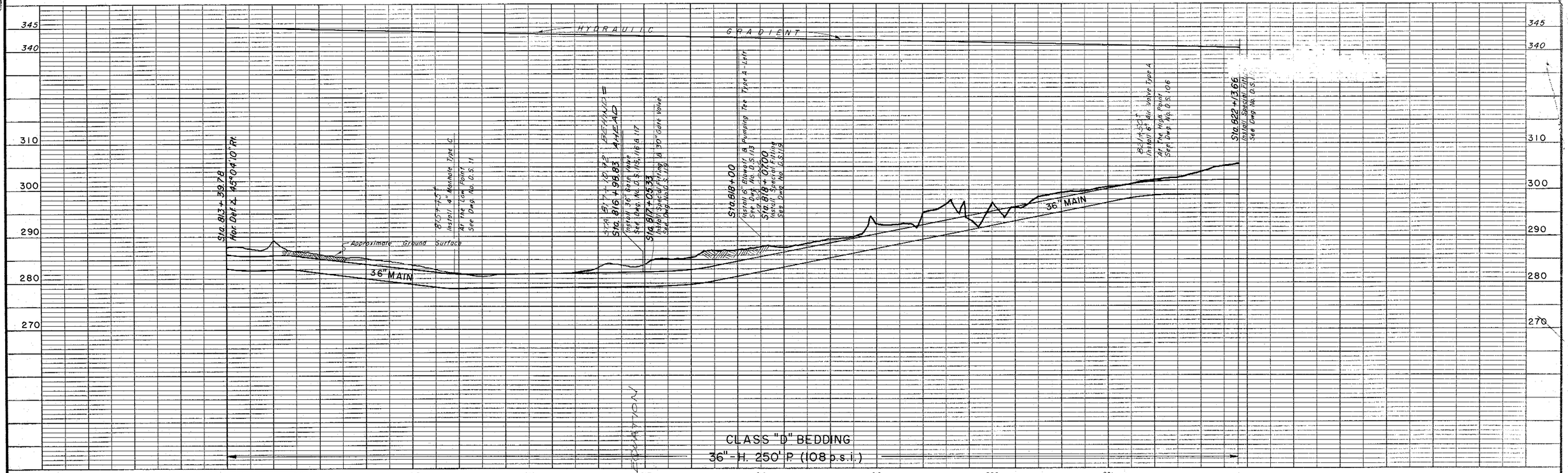
Sta. 801 + 94 to Sta. 813 + 40

SCALE:	APPROVED Gordon W. Miller CHIEF ENGINEER	DRAWN
DATE:		

SONOMA COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT

DESIGNED	CHECKED	DRAWING NUMBER
		50-4-102 45

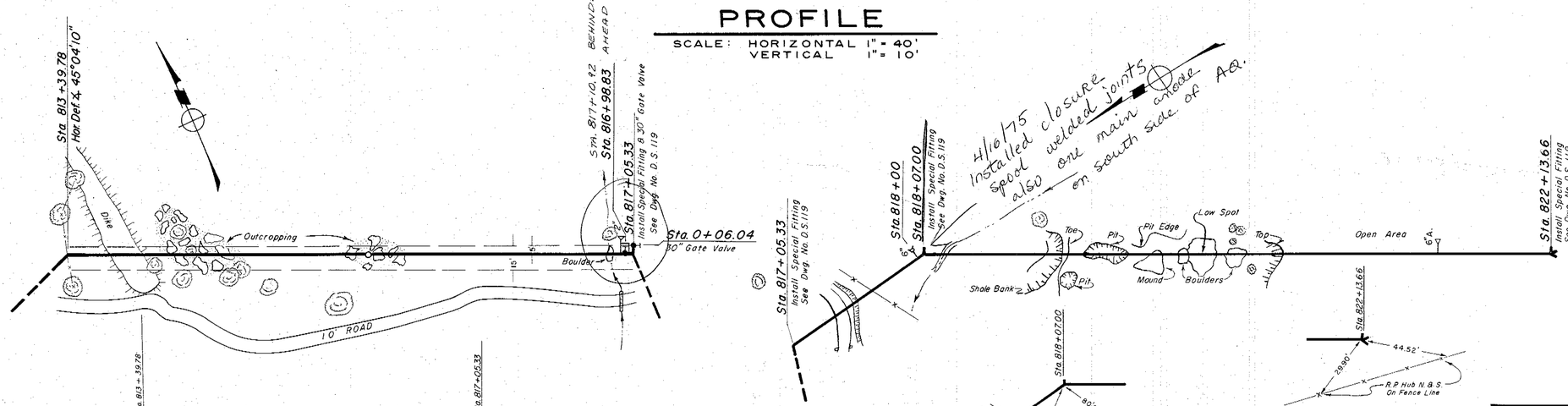
PLATE 1 - PLAN-PROFILE - F.A.S.
CLEARPRINT PAPER CO. S. F. CAL.
No. 1000H-1



CLASS "D" BEDDING
36"-H. 250' P (108 p.s.i.)

PROFILE

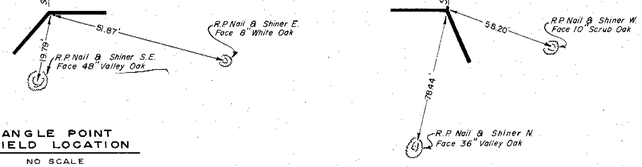
SCALE: HORIZONTAL 1"= 40'
VERTICAL 1"= 10'

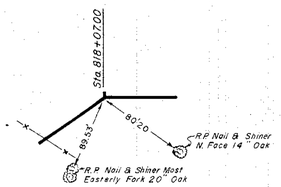


PLAN

SCALE: LONGITUDINAL 1"= 40'
TRANSVERSE 1"= 40'

B.M. Elev. 288.75. Spike in No. face of 20" oak 38' left of P.I. 817+05.33





Return to Revised Index

Approved Robert Van Guelpen
Robert Van Guelpen
City Engineer
City of Santa Rosa

No.	DATE	REVISION	By
1	12/57	Bench mks., ℄ pts., ref. pts. added	VT

FRANK B. SARLES
CONSULTING CIVIL ENGINEER - SANTA ROSA, CALIFORNIA

APPROVED Frank B Sarles R.C.E. 595

DRAWN	CHECKED	DATE
BY M.N.-J.R.-V.B.	BY	AUGUST, 1957

RUSSIAN RIVER AQUEDUCT No. 1
Sta. 813+40 to Sta. 822+14

SCALE	APPROVED	DRAWN
DATE	CHIEF ENGINEER	

SONOMA COUNTY FLOOD CONTROL & WATER CONSERVATION DISTRICT

DESIGNED	CHECKED	DRAWING NUMBER
		50-4-102.46

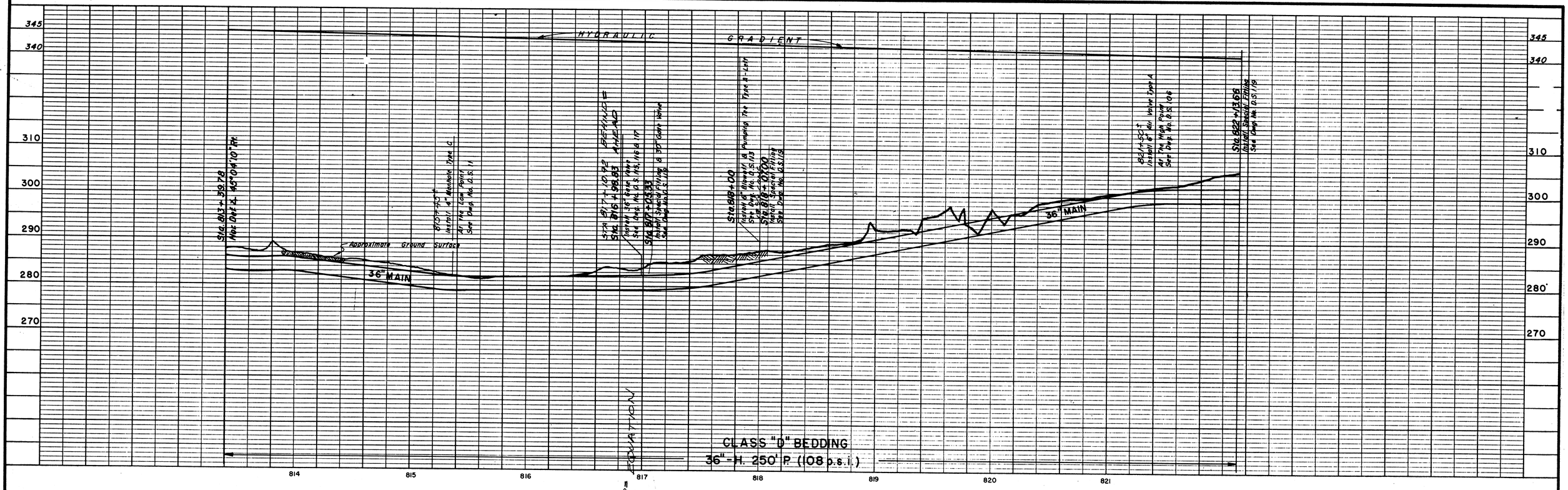
Note: Drawings 50-4-102.42 Not in this As built
50-4-102.43
50-4-102.44
50-4-102.45

6/13/80
N. Capucetti

PLATE 1-PLAN-PROFILE-F.A.S.
CLEARPRINT PAPER CO. S. F. CAL.
No. 1000H-1

PROFILE

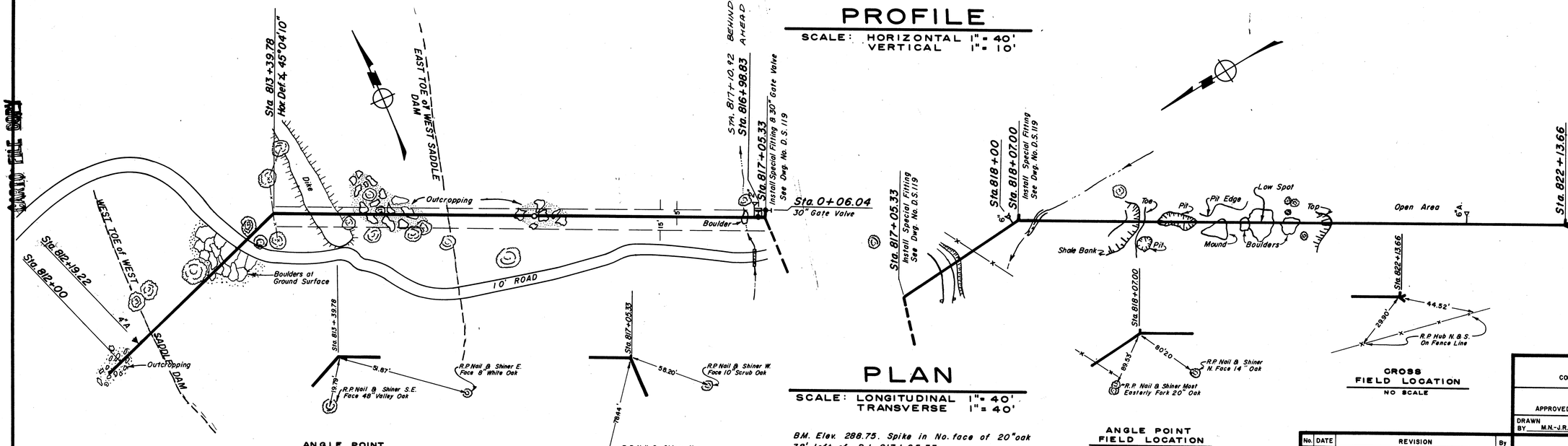
SCALE: HORIZONTAL 1"= 40'
VERTICAL 1"= 10'



CLASS "D" BEDDING
36"-H. 250' P. (108 p.s.i.)

PLAN

SCALE: LONGITUDINAL 1"= 40'
TRANSVERSE 1"= 40'



ANGLE POINT FIELD LOCATION
NO SCALE

ANGLE POINT FIELD LOCATION
NO SCALE

ANGLE POINT FIELD LOCATION
NO SCALE

CROSS FIELD LOCATION
NO SCALE

B.M. Elev. 288.75. Spike in No. face of 20" oak 38' left of P.I. 817+05.33

Return to Revised Index

Approved Robert Van Guelpen
Robert Van Guelpen
City Engineer
City of Santa Rosa

AS BUILT
Date 11/26/60
By: [illegible]

FRANK B. SARLES
CONSULTING CIVIL ENGINEER – SANTA ROSA, CALIFORNIA

APPROVED Frank B Sarles R.C.E. 5951

DRAWN BY M.N.-J.R.-J.B. | CHECKED BY RMP | DATE AUGUST, 1957

No.	DATE	REVISION	By
1	12/57	Bench mks., ℄ pts., ref. pts. added	VT

RUSSIAN RIVER AQUEDUCT No. 1
Sta. 813+40 to Sta. 822+14

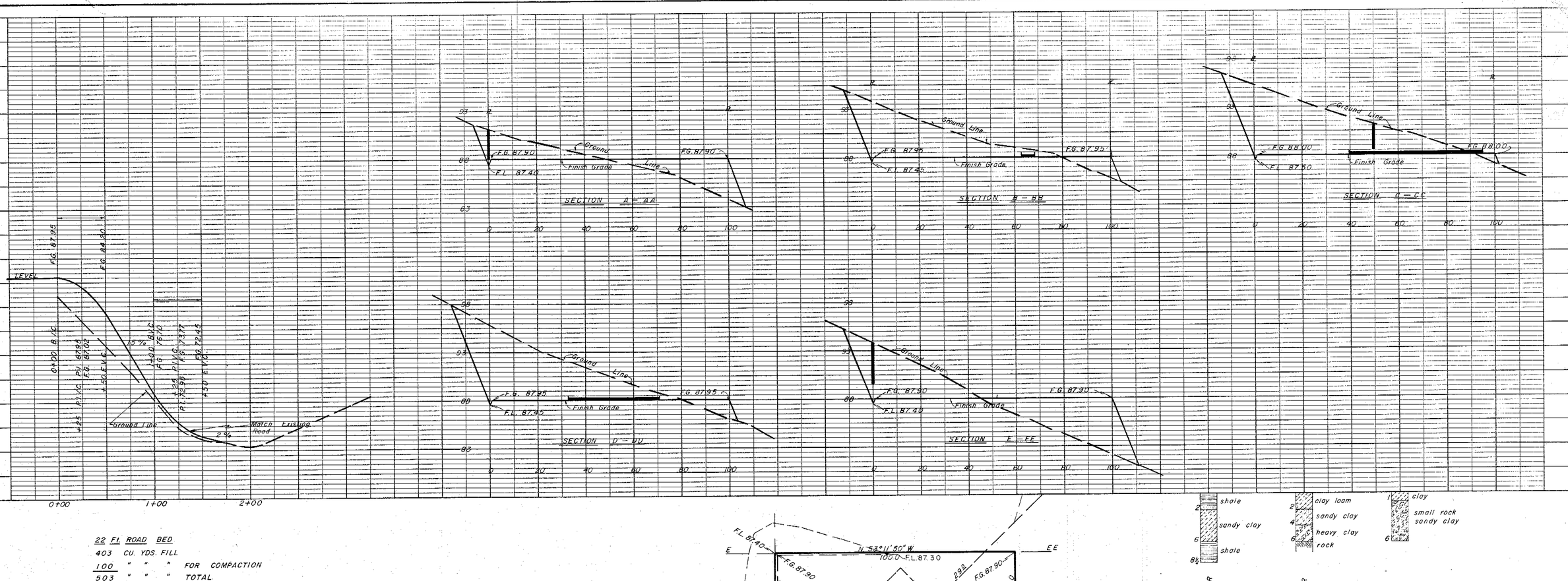
SCALE:
DATE:
APPROVED Frederick W Miller CHIEF ENGINEER
DRAWN

SONOMA COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT

DESIGNED | CHECKED | DRAWING NUMBER 50-4-102.46A

M-3351

MICROFILMED PH4-38 PH4-18 7-Sd-16683



Return to Revised Index

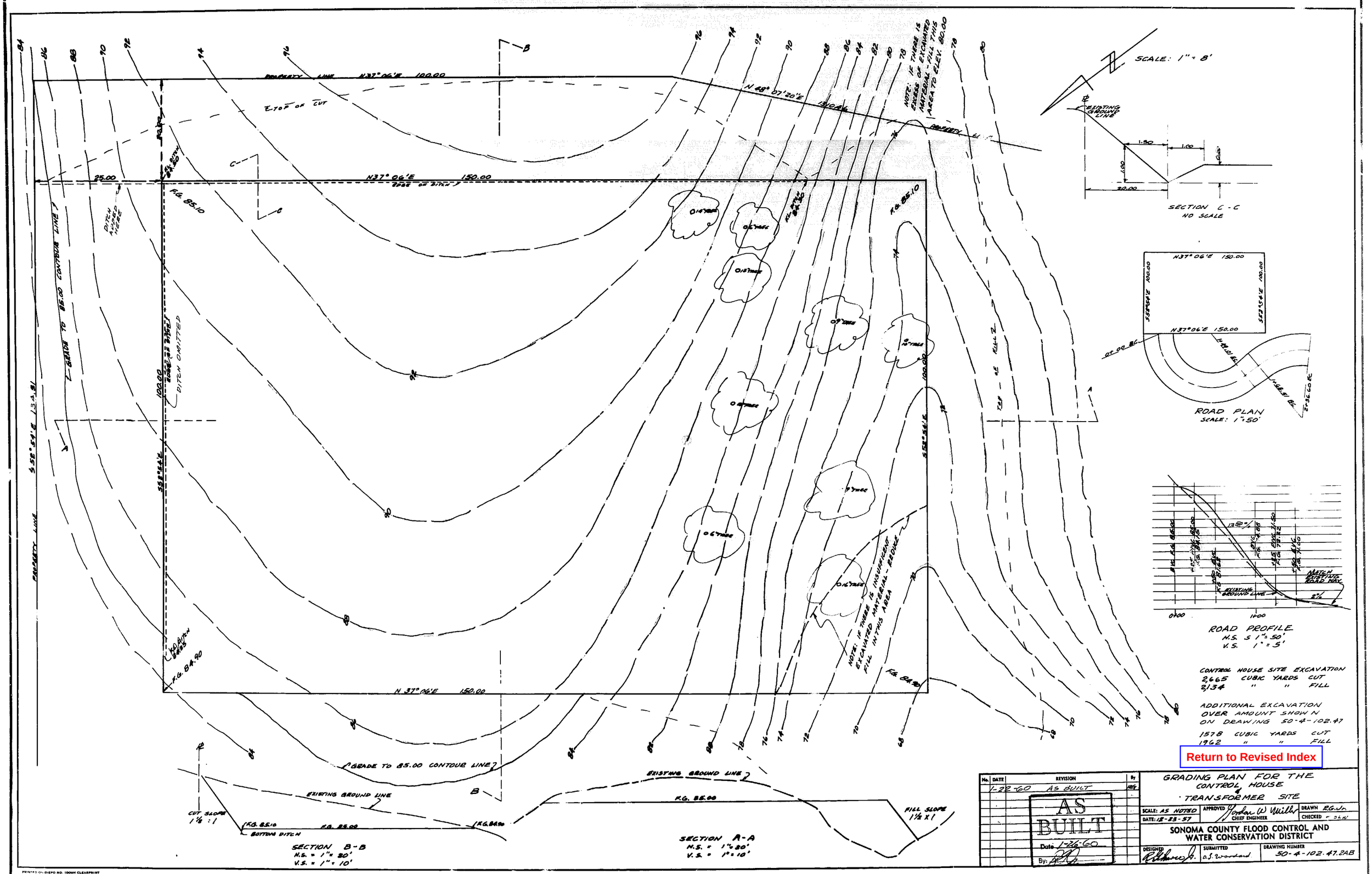
No.	DATE	REVISION	By

RUSSIAN RIVER AQUEDUCT NO. 1
GRADING PLAN CONTROL BUILDING SITE

SCALE: 1"=20'H: 5'V | APPROVED Gordon W. Miller, CHIEF ENGINEER | DRAWN RG VT
DATE:

SONOMA COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT

DESIGNED R. Gilmore Jr. | CHECKED Gene K. Lopez 12/10/02 | DRAWING NUMBER 50-4-102.47.1



Return to Revised Index

No.	DATE	REVISION	By
	1-22-60	AS BUILT	RG

AS BUILT
Date 1-26-60
By: [signature]

GRADING PLAN FOR THE CONTROL HOUSE & TRANSFORMER SITE

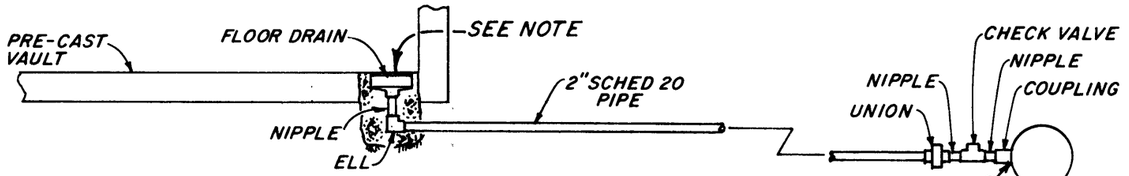
SCALE: AS NOTED
DATE: 12-23-57
APPROVED Jordan W. Miller CHIEF ENGINEER
DRAWN R.G.Jr.
CHECKED [illegible]

SONOMA COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT

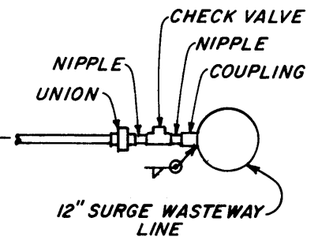
DESIGNED [signature]
SUBMITTED O.S. Woodard
DRAWING NUMBER 50-4-102.47.2AB

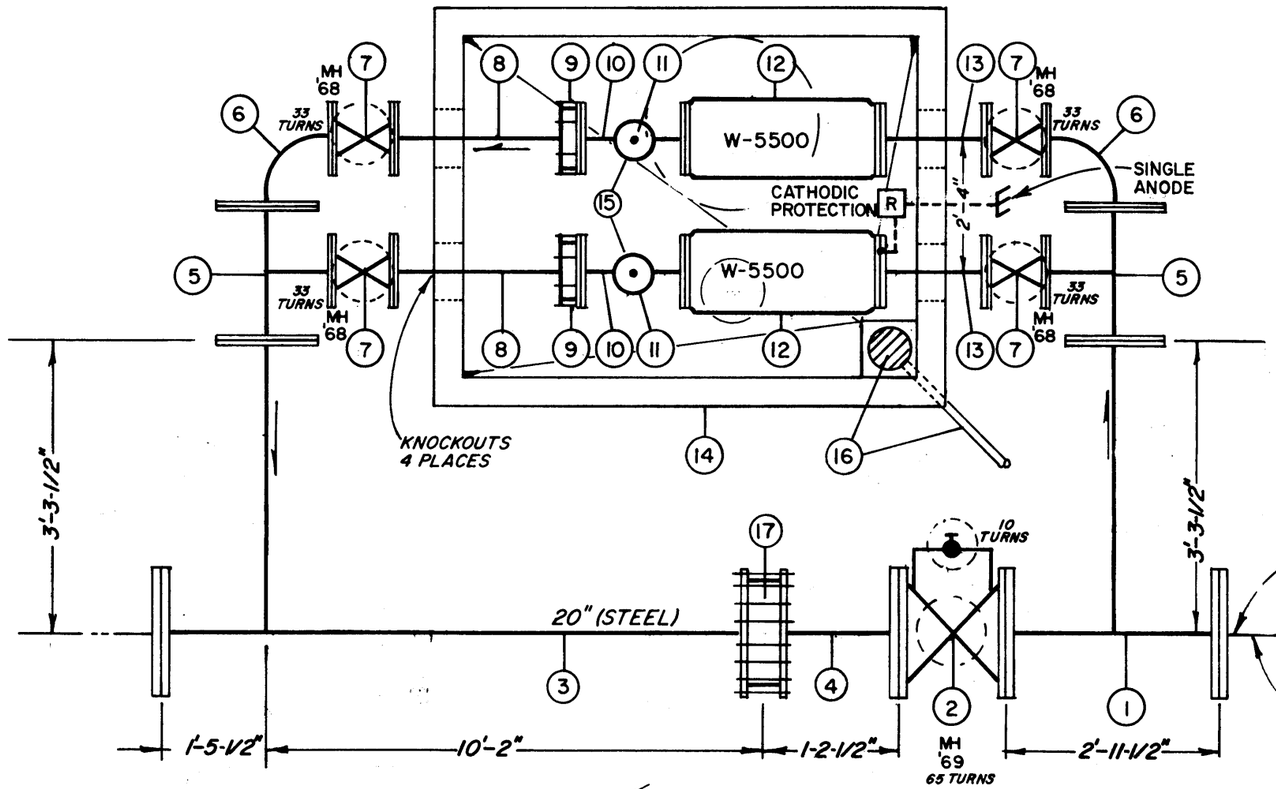
PRINTED ON DIEPO NO. 1000H CLEARPRINT

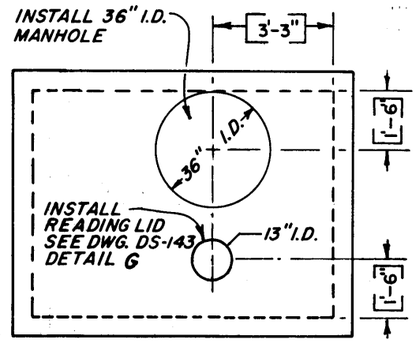
NOTE:
BREAK OUT VAULT FLOOR TO SUIT FLOOR DRAIN DIMENSIONS. ASSEMBLE FLOOR DRAIN AND REQUIRED FITTINGS ADJUST FLOOR DRAIN TO 1/4" BELOW FLOOR SURFACE. POUR MASS CONCRETE TO ENCASE FLOOR DRAIN & FITTINGS. TROWEL SMOOTH



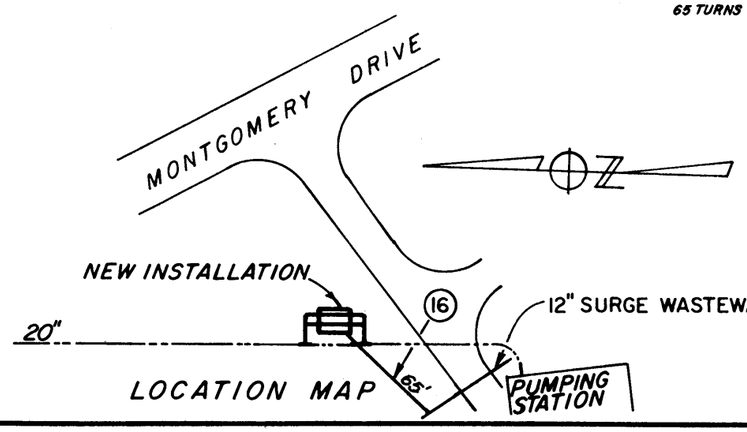
PROFILE SUMP DRAIN
ITEM (16)







MANHOLE & READING LID PLACEMENT DETAIL
1/4"=1'-0"



NOTE:
BEFORE CUTTING INTO 20" PIPE, THREE (3) VALVES LOCATED ON SONOMA HWY MUST BE TURNED OFF

SCHEDULE OF ITEMS

1	20"x 20"x14" TEE (SPECIAL FABRICATION)
2	20" GATE VALVE W/ BY-PASS
3	20"x 20"x14" TEE (SPECIAL FABRICATION)
4	20"x 1'-2-1/2" PIPE FOE
5	14" x 14" x 10" TEE (2 REQ'D)
6	14"x 10" 90° ELL (2 REQ'D)
7	10" GATE VALVE (4 REQ'D)
8	10"x 2'-10-1/2" PIPE FOE 2 PLACES
9	10" FLANGE x 10" PLAIN END, FLANGED COUPLING ADAPTOR, SMITH-BLAIR 912-10-1110 (2 REQ'D)
10	10"x 10"x 6" TEE 2 REQ'D
11	6" BLIND FLANGE (2 REQ'D)
12	10" ROCKWELL METER W-5500 (2 REQ'D) (BY DISTRICT)
13	10"x 1'-10" PIPE FBE (2 REQ'D)
14	6'x 8' PRE-CAST VAULT BROOKS 850
15	PIPE SUPPORTS (AS REQ'D)
16	FLOOR DRAIN, CONSISTING OF: FLOOR DRAIN, JOSAM No. 5422, 2" DIA. IPS OUTLET, CAST IRON BODY & NIKALOY TOP. 2"IPS x 4" NIPPLE, GALV. (3 REQ'D.); 2"IPS 90° ELL, GALV.; 2" PIPE SCHED. 20, LENGTH TO SUIT, GALV.; SWING CHECK VALVE, CRANE No. 34, 2" DIA SCREWED, WITH BRASS DISC.; 2"IPS COUPLING, BLACK; 2" IPS UNION, GALV.
17	20" PIPE COUPLING, SMITH-BLAIR 11-00200007-003

AS BUILT
Date 28 MAY 70
By: MEds

Return to Revised Index

N-5

No.	DATE	REVISION	By
1	6/70	UPDATED FOR 'AS BUILTS'	KP

WATER METER INSTALLATION
RINCON VALLEY PUMPING STATION
SANTA ROSA

SCALE: 3/8"=1'-0" | APPROVED Jordan W. Mills CHIEF ENGINEER | DRAWN RM
DATE: 10-7-68 | T. & T.

SONOMA COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT

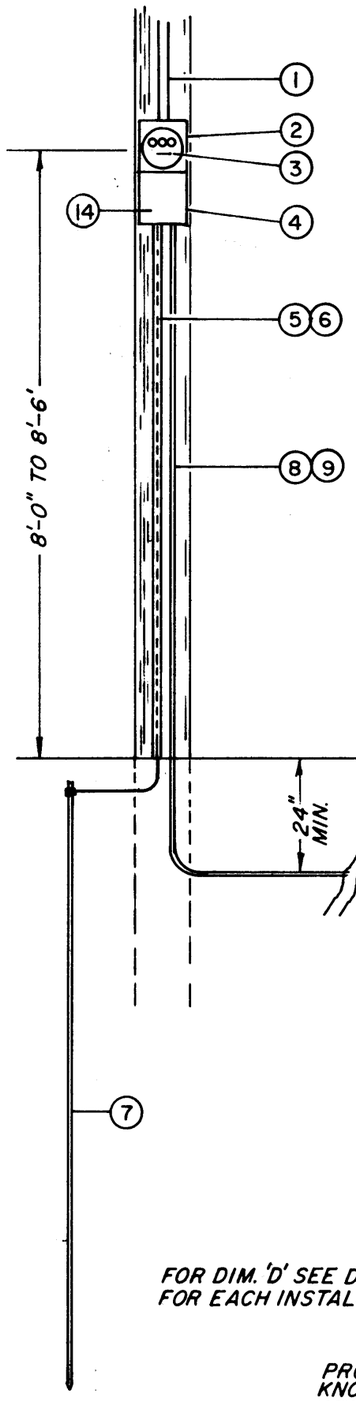
DESIGNED S. Mings | DRAWING NUMBER 50-2-102.23

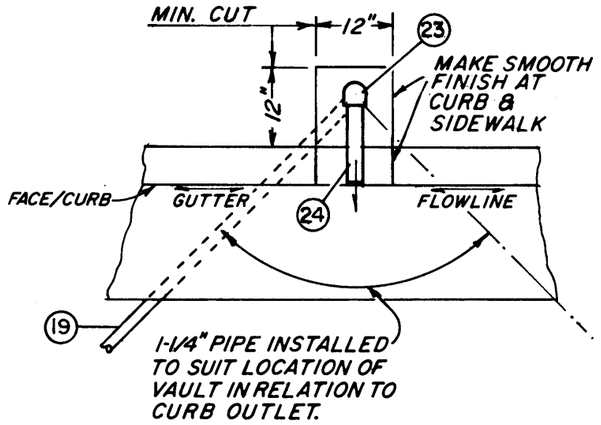
PRINTED ON DIEPO NO. 1025 PAPERCLOTH

MICROFILMED PH11-40

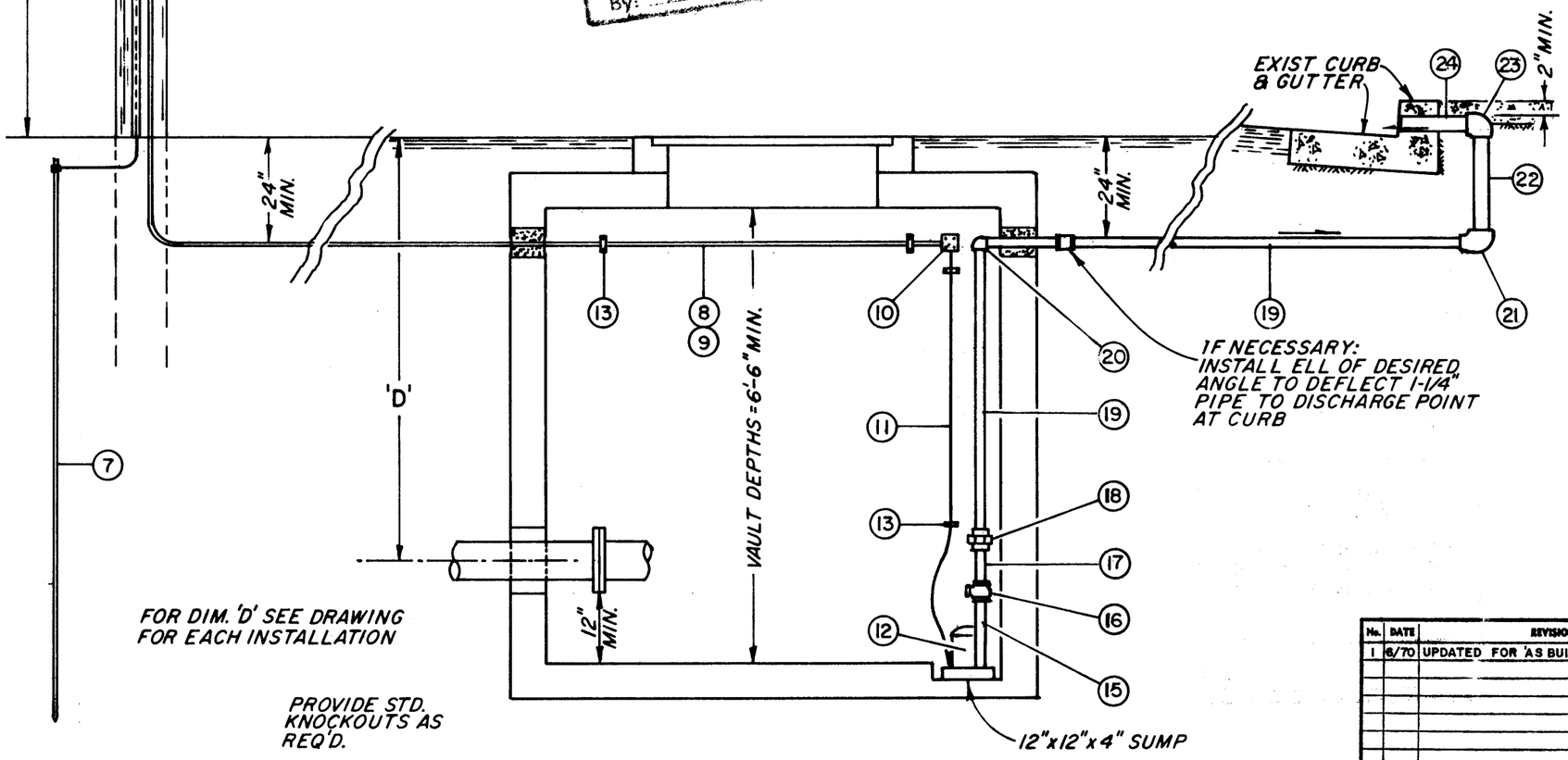
NOTE
1. UTILIZE EXISTING UTILITY POLES WHERE INDICATED BY SYMBOL:
2. SINGLE No. 12 TW FROM OVERLOAD TO MANUAL OVERRIDE SWITCH & FROM SWITCH TO COLD SIDE OF DIAPHRAGM SWITCH AT MOTOR.

N
POLE
METER





PLAN
CURB OUTLET



TYPICAL PROFILE

AS BUILT
Date 28 MAY 70
By: MCL

SCHEDULE OF MATERIALS

ELECTRICAL

(1)	SERVICE DROP, 115 V. 1 Ø (BY PG&E)
(2)	METER BASE, ROUND SOCKET, METAL BOX TYPE
(3)	WATTHOUR METER, 115 V. 1 Ø (BY PG&E)
(4)	ENCLOSED 20 A. CIRCUIT BREAKER, SQUARE D AIE, 120 RO, NEMA 3R, RAINTITE
(5)	#8 GROUNDING STRAP
(6)	PROTECTIVE MOLDING, WOOD
(7)	1/2"x 8'-0" COPPER COATED STEEL, GROUND ROD
(8)	3/4" CONDUIT, ELECTRO OR HOT DIPPED GALVANIZED, YOUNGSTOWN
(9)	#12/2 WIRE, N.E. STYLE RR, FLEXLAY OR NE-O-PRENE LOOMWIRE & SINGLE #12 TW
(10)	WATERTITE JUNCTION BOX, STEEL CITY OR APPLETON
(11)	HEAVY DUTY SUBMERSIBLE LEAD, PART OF PUMP
(12)	SUBMERSIBLE PUMP, AUTOMATIC, 1/3 HP., 115/230 V. 60 CY, 1-1/4" DISCHARGE,
(13)	CONDUIT OR CABLE STRAPS, 2 HOLE, DIAMOND
(14)	MANUAL OVERRIDE SWITCH

PIPING

(15)	1-1/4"x 12" NIPPLE T2E, GALV.
(16)	SWING CHECK VALVE, BRASS BODY, BRASS DISC 1-1/4" SCREWED, CRANE No. 34
(17)	1-1/4"x 6" NIPPLE T2E, GALV.
(18)	1-1/4" MALLEABLE IRON UNION, GALV.
(19)	1-1/4" PIPE, LENGTH TO SUIT T2E, GALV.
(20)	1-1/4" ELL, GALV.
(21)	2"x1-1/4" REDUCING ELL, GALV.
(22)	2"x1'-6" PIPE T2E, GALV.
(23)	2" ELL, GALV.
(24)	2" x 1'-0" PIPE TIE, GALV.

Return to Revised Index

N-5

No.	DATE	REVISION	By
1	6/70	UPDATED FOR 'AS BUILTS'	KP

WATER METER INSTALLATION
TYPICAL SUMP PUMP INSTALLATION
SANTA ROSA & VALLEY OF THE MOON

SCALE:
DATE:
APPROVED Gordon W. Mills CHIEF ENGINEER
DRAWN K.P.L.

SONOMA COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT

DESIGNED K. Allen
DRAWING NUMBER 50-2-102.24

PRINTED ON DIEPO NO. 1025 PAPERCLOTH

MICROFILMED

PH11-42

B.M. Elev. 329.70 R.R. Spike
in root of 18" MUSH OAK

B.M. Elev. 324.77 R.R. Spike
in root of 36" OAK

B.M. Elev. 308.71 R.R. Spike
in 18" Black Oak

B.M. Elev. 320.16 R.R. Spike
in 6" Double Live Oak

B.M. Elev. 310.51 R.R. Spike
in 24" MUSH OAK

NOTE: PAVED DITCH
FROM Ⓚ TO Ⓧ

EXCESS SPOILS AREA

EXCESS SPOILS AREA

SECTION B-B

SECTION C-C

Return to Revised Index

No.	DATE	REVISION	By
		AS BUILT Date: 1-20-1960	

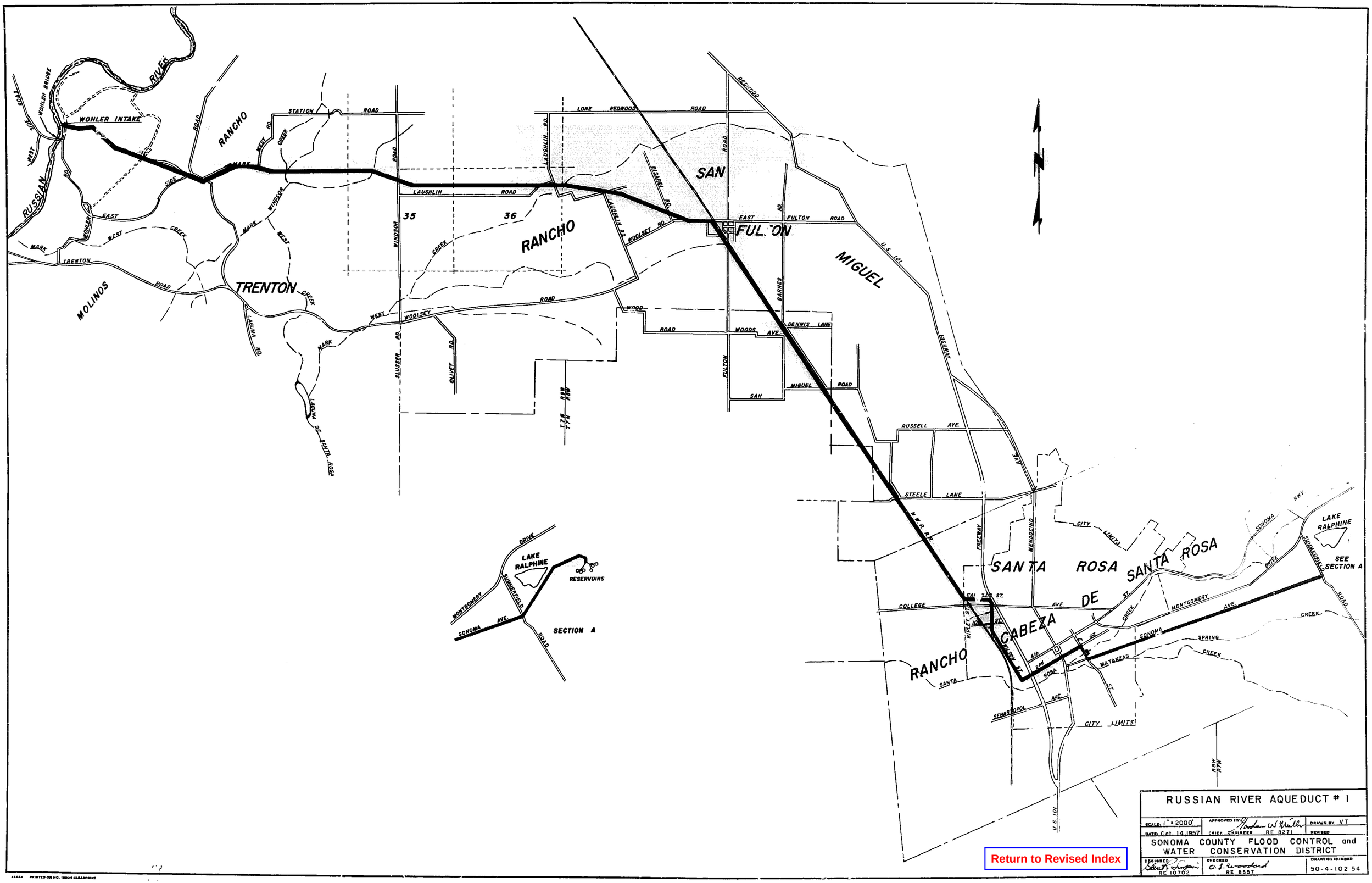
RESERVOIR SITE EXCAVATION AS BUILT PLAN

SCALE: 1" = 30'	APPROVED	DRAWN R.G.Jr.
DATE: 1-20-1960	CHIEF ENGINEER	CHECKED

SONOMA COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT

DESIGNED	SUBMITTED	DRAWING NUMBER
		50-A-102.53.3AB

PRINTED ON DIEPO NO. 10001 CLEARPRINT



Return to Revised Index

RUSSIAN RIVER AQUEDUCT # 1

SCALE: 1" = 2000'	APPROVED BY: Jordan W Mills CHIEF ENGINEER RE 8271	DRAWN BY V.T.
DATE: Oct. 14, 1957		REVISED

SONOMA COUNTY FLOOD CONTROL and WATER CONSERVATION DISTRICT

DESIGNED Stewart Simpson RE 10702	CHECKED O. J. Woodard RE 8557	DRAWING NUMBER 50-4-102 54

PRINTED ON NO. 1000H CLEARPRINT