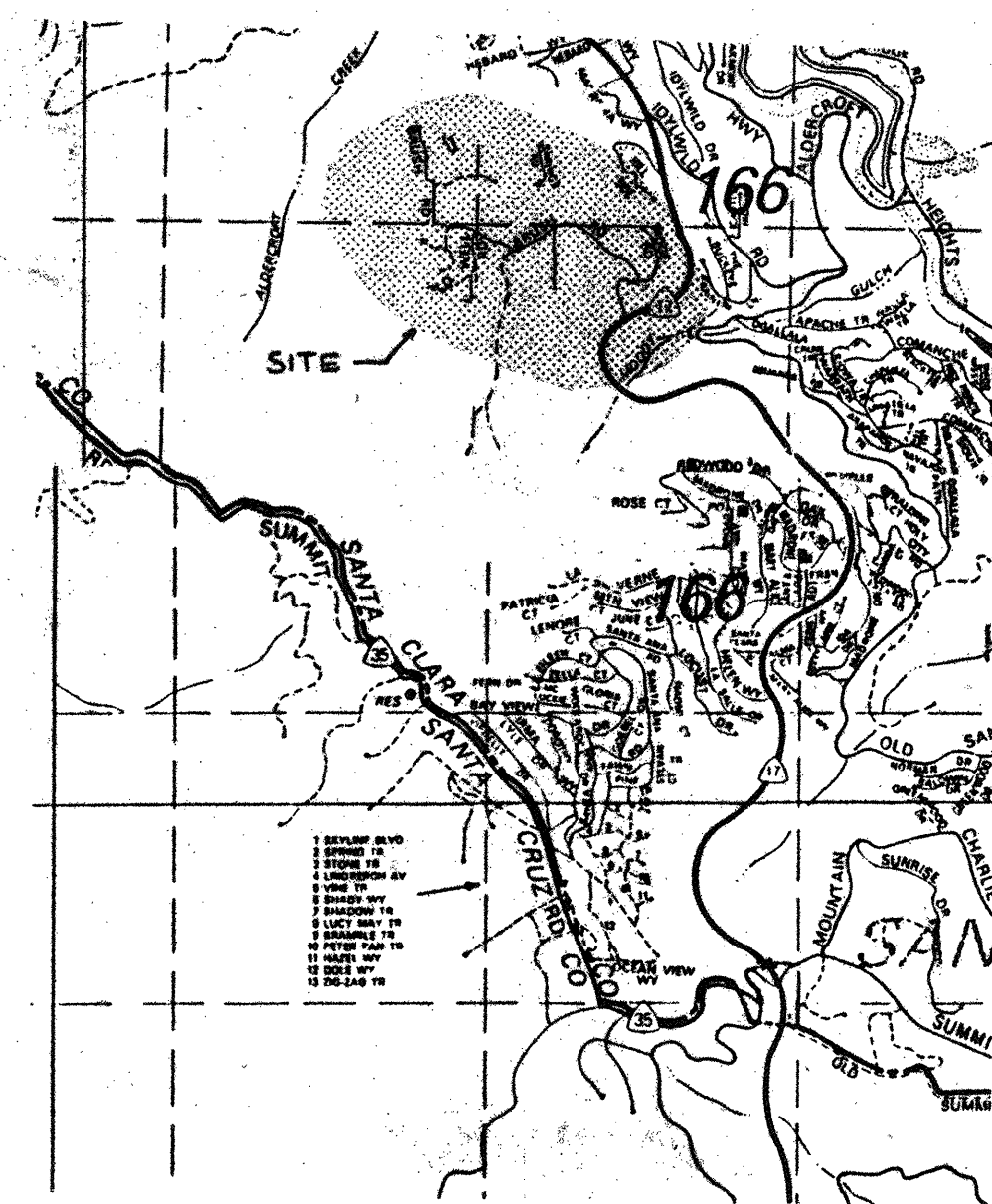
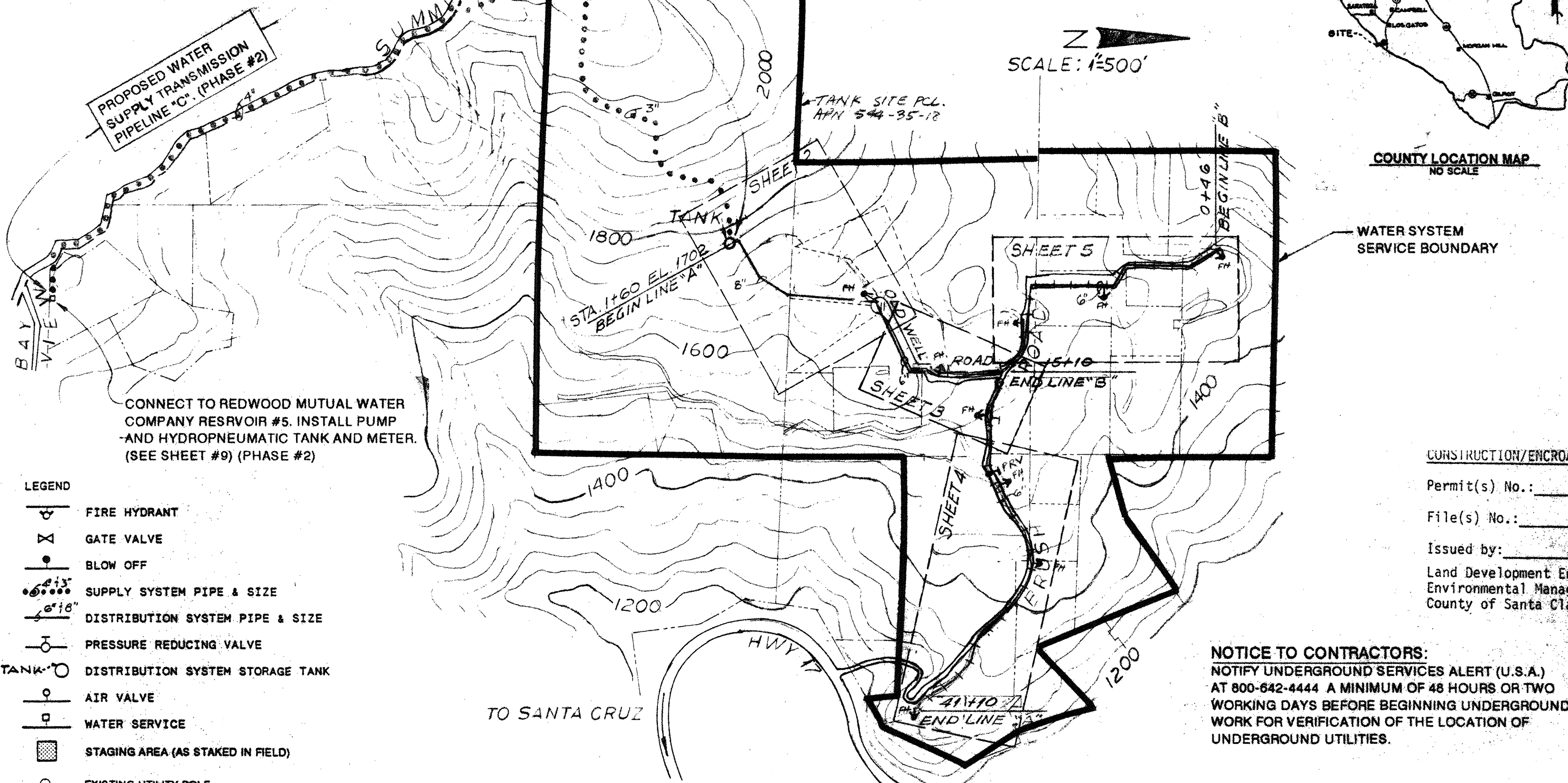


CONSTRUCTION PLANS FOR REMEDIAL WATER SYSTEM

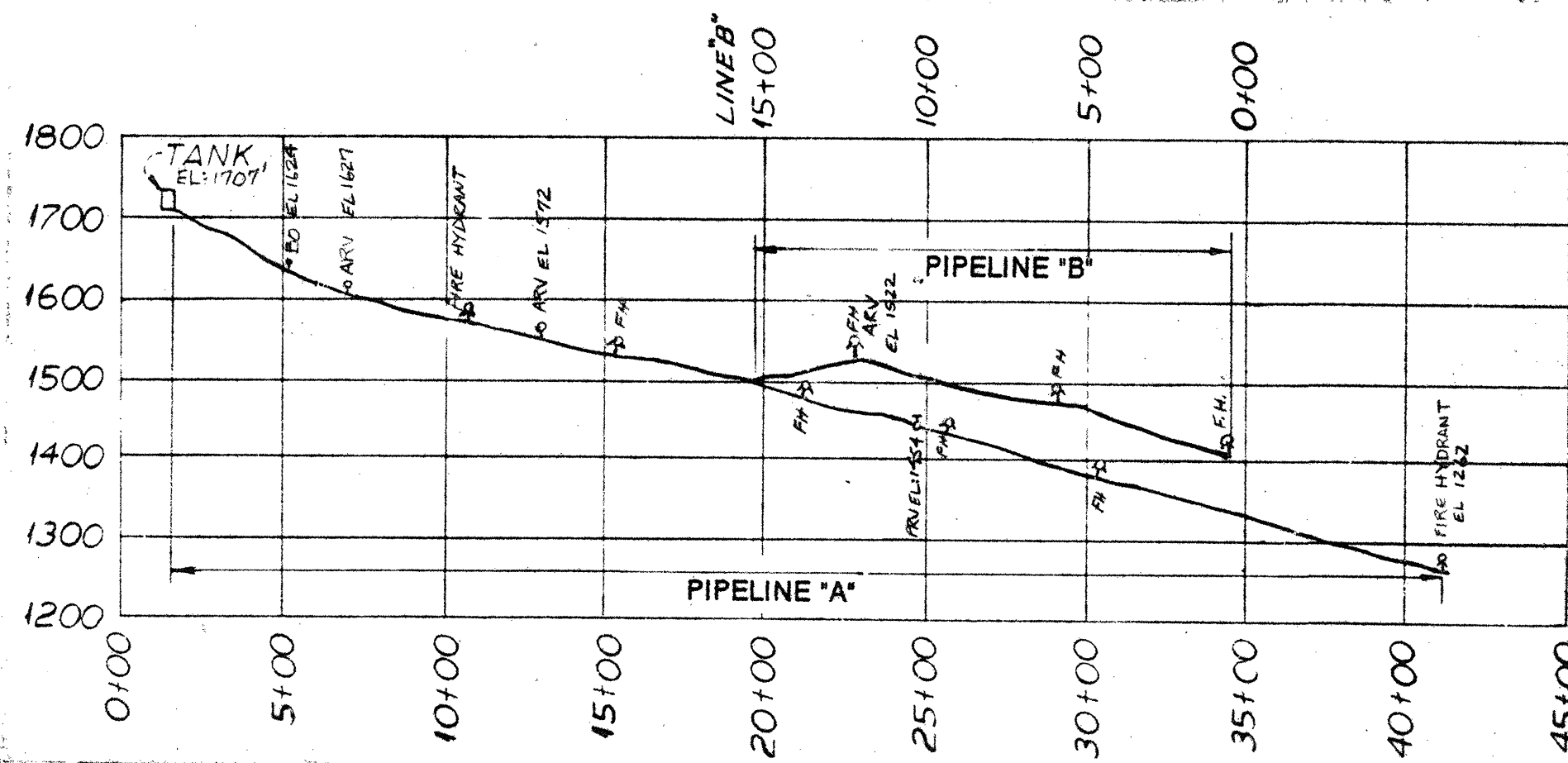
BRUSH AND OLD WELL
MUTUAL WATER COMPANY
SANTA CLARA COUNTY, CALIFORNIA



VICINITY MAP
(NO SCALE)



WATER SYSTEM MAP



WATER SYSTEM SCHEMATIC

PROFILE LINES A, B & C
HORIZ. 1" = 500'
VERT. 1" = 200'

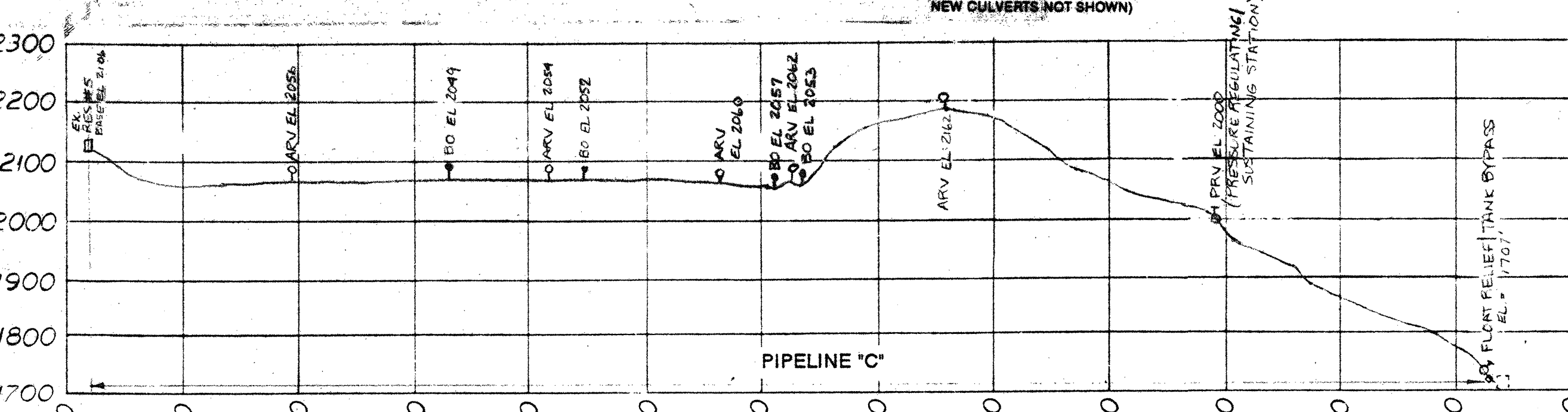
- COUNTY OF SANTA CLARA
GENERAL CONSTRUCTION SPECIFICATIONS**
1. ALL MATERIAL SHALL CONFORM TO THE SPECIFICATIONS AND STANDARDS OF THE COUNTY OF SANTA CLARA.
 2. ALL WORK SHALL CONFORM TO THE APPROVED PLANS, THE COUNTY OF SANTA CLARA WATER SYSTEM MANUAL AND STANDARDS, COUNTY OF SANTA CLARA STANDARD DETAILS, AND THE CURRENT STATE OF CALIFORNIA STANDARD SPECIFICATIONS AND DETAILS. IN CASE OF CONFLICT, THE ORDER OF PRIORITY SHALL COINCIDE WITH THE ORDER AS LISTED ABOVE.
 3. THE CONTRACTOR WILL BE RESPONSIBLE FOR VERIFICATION OF THE LOCATION OF ALL EXISTING UTILITIES IN THE FIELD. LOCATIONS SHOWN ON THE PLANS ARE APPROXIMATE AND FOR GENERAL INFORMATION PURPOSES ONLY.
 4. THE CONTRACTOR SHALL NOTIFY ALL OTHER UTILITIES A MINIMUM OF 48 HOURS PRIOR TO EXCAVATION NEAR THEIR FACILITIES BY CALLING UNDERGROUND SERVICE ALERT AT 800-942-2444 TOLL FREE.
 5. DUST CONTROL SHALL BE PROVIDED BY THE CONTRACTOR AS REQUIRED BY THE COUNTY INSPECTOR OR DEVELOPER'S ENGINEER.
 6. THE CONTRACTOR SHALL NOT ALLOW MORE THAN 2 DAYS TO ELAPSE FROM OPENING TO COMPLETING BACKFILL ON ANY PORTION OF TRENCH WITHIN THE RIGHT-OF-WAY OF STREET WHICH IS OPEN TO THE PUBLIC. THE TRENCH SHALL BE COMPLETELY BACKFILLED AND COVERED WITHIN 24 HOURS OF EXCAVATION. EACH EVENING WHEN WITHIN A PAVED STREET WHICH IS OPEN TO THE PUBLIC.
 7. ALL UNDERGROUND INSTALLATIONS SHALL BE IN PLACE AND THE TRENCH BACKFILLED AND COMPACTED BEFORE PLACING AGGREGATE BASE MATERIAL OR SURFACE STRUCTURES.
 8. ANY EXISTING PAVEMENT AREAS WHICH ARE SCARRED, DAMAGED OR REMOVED DURING THE CONSTRUCTION OPERATIONS AND ANY EXISTING SHOULDER AREAS WHICH ARE STRUCTURALLY INADEQUATE COMPARED TO THE PURPOSED TYPICAL PAVEMENT SECTION, SHALL BE REMOVED, RECONSTRUCTED OR REPAIRED AS REQUIRED BY THE OWNER'S REPRESENTATIVE AND/OR COUNTY INSPECTOR IN THE FIELD.
 9. ALL TEES, ELBOWS AND DEAD ENDS SHALL BE BLOCKED WITH CONCRETE AGAINST UNDISTURBED SOIL PER THE STANDARD THRUST BLOCK DETAILS. GATE VALVES, REDUCERS, VERTICAL BENDS AND SPECIAL FITTINGS SHALL BE BLOCKED AS SHOWN ON THESE PLANS. ALL ELBOWS POINTING DOWN SHALL BE BLOCKED FOR UPWARD THRUST PER COUNTY OF SANTA CLARA DETAIL FOR STANDARD ANCHOR FOR UPWARD THRUST.
 10. CONTRACTOR AND/OR HIS AUTHORIZED REPRESENTATIVE MUST SUBMIT WRITTEN REQUEST TO THE OWNER FOR FINAL INSPECTION AND ACCEPTANCE. SAID REQUEST SHALL BE DIRECTED TO THE OFFICE NOTED IN THE PERMIT FORM.
 11. CONTRACTOR IS TO CLEANUP AND LEAVE SITE IN A CONDITION EQUAL TO OR BETTER THAN THAT WHICH WAS ORIGINALLY FOUND.
 12. THE ENVIRONMENTAL HEALTH SERVICES DIVISION AND THE LAND DEVELOPMENT ENGINEERING AND SURVEYING DIVISION OR THEIR CONSULTANT MAY ENTER AND INSPECT THE SITE FOR COMPLIANCE WITH THE APPROVED PLANS OR THE SIGNED AS-BUILTS WHENEVER THEY DEEM IT IS APPROPRIATE.

PIPE INSTALLATION, DISINFECTION, AND TESTING

1. ALL MAINS, HYDRANT LATERALS AND SERVICES SHALL BE INSTALLED AND JOINED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS. DISTRIBUTION MAINS AND HYDRANT LATERALS ARE RUBBER RING ANNA 6 INCH C900 CLASS 150 PVC AND SERVICES ARE 160 PSI SDR 9, P34 (3406) ASTM D-2737 ULTRA HIGH MOLECULAR WEIGHT POLYETHYLENE SERVICE TUBING.
2. PRESSURE AND LEAKAGE TEST AND STANDARDS OF THE PIPELINE SHALL CONFORM TO SANTA CLARA COUNTY WATER SYSTEM MANUAL AND STANDARDS, AND SHALL BE MADE IN ACCORDANCE WITH SECTION 19 OF THE ANNA C-903 AS MODIFIED BY THE SANTA CLARA WATER SYSTEMS MANUAL AND STANDARDS. ALLOWABLE LEAKAGE SHALL BE AS SPECIFIED IN THE LATEST ANNA STANDARDS.
3. STERILIZATION SHALL CONFORM TO ANNA C601 AS MODIFIED BY THE SANTA CLARA WATER SYSTEMS MANUAL AND STANDARDS.
4. IT IS THE CONTRACTOR'S RESPONSIBILITY TO CONSTRUCT A WATER PIPING SYSTEM CAPABLE OF PASSING PRESSURE AND LEAKAGE TESTS AND TO EFFECT THE DISINFECTION OF THE WATER MAIN. IT IS ALSO THE CONTRACTOR'S RESPONSIBILITY TO PREVENT THE CONSUMPTION OF WATER FOR ANY AND ALL USES FROM UNSTERILE PIPING WHETHER BY THEIR WORKMEN, SUB-CONTRACTORS, OR OTHER PERSONS.
5. THE END OF THE WATER MAIN SHALL BE PLUGGED NIGHTLY WITH A WATER TIGHT PLUG. GROUND WATER SHALL NOT BE ALLOWED TO ENTER THE PIPE AT ANY TIME.
6. ALL PIPELINE MATERIALS SHALL BE FREE OF FOREIGN MATERIAL WHEN INSTALLED AND SHALL REMAIN CLEAN DURING INSTALLATION. ALL FOREIGN MATERIAL SHALL BE REMOVED OR SWABBED FROM THE INTERIOR OF THE PIPE AS NECESSARY.

GENERAL CONSTRUCTION NOTES (NOT A PART OF COUNTY PERMIT)

1. THE CONTRACTOR SHALL REMEDY ANY DEFECTS IN THE WORK AND PAY FOR ANY DAMAGE TO OTHER WORK RESULTING THEREFROM WHICH SHALL APPEAR WITHIN A PERIOD OF ONE (1) YEAR FROM THE DATE OF FINAL ACCEPTANCE OF THE WORK.
2. BACTERIOLOGICAL TESTING SHALL BE PERFORMED AFTER DISINFECTION AND FLUSHING OF THE TANK AND THE MAINS AND BEFORE PLACING THE SYSTEM IN SERVICE. CONTRACTOR SHALL TAKE 2 SAMPLES, 24 HOURS APART, FROM EACH SAMPLING POINT AS DIRECTED BY THE ENGINEER. THE CONTRACTOR'S STATE CERTIFIED LABORATORY SHALL NOTIFY THE CONTRACTOR AND THE ENGINEER OF THE RESULTS OF THE BACTERIOLOGICAL TESTS.



NOTE:

1. ALL DESIGN AND IMPROVEMENT IN THE PLAN SHALL CONFORM TO RECOMMENDATIONS IN THE SOIL REPORT (DATED 9/19/92) PERFORMED BY UPP GEOTECHNOLOGY, INC.
2. ALL WORKS WITHIN STATE JURISDICTION SHALL REQUIRE ENCROACHMENT PERMITS ISSUED BY CALTRANS.
3. MAINTAIN 12" MIN. VERTICAL CLEARANCE BETWEEN WATER MAIN AND DRAINAGE CULVERT. IF UNABLE TO MAINTAIN CLEARANCE, WATER MAIN SHALL BE ENCASED IN 6" OF REINFORCED CONCRETE EXTENDING 5 FT. BEYOND CULVERT (PER DETAIL SHT. 12).

SCOPE OF WORK:

THE FOLLOWING SCOPE OF WORK COVERS ALL SUPPLY, TRANSMISSION, STORAGE, AND DISTRIBUTION FACILITIES NEEDED TO FURNISH POTABLE AND FIRE PROTECTION WATER TO BRUSH AND OLD WELL ROADS, SANTA CLARA COUNTY, CALIFORNIA:

- PHASE #1**
1. INSTALL 940 FEET, MORE OR LESS, OF 8" WATER DISTRIBUTION MAIN LINE A AND APPURTENANCES.
 2. INSTALL 1400 FEET, MORE OR LESS, OF 8" WATER DISTRIBUTION MAIN LINES A & B AND APPURTENANCES.
 3. GRADE TANK SITE.
 4. PREPARE TANK FOUNDATION INCLUDING ALL ELBOWS UNDER THE FOUNDATION. OBTAIN BUILDING PERMIT PRIOR TO CONSTRUCTION.
- PHASE #2**
5. INSTALL ONE 4" X 1 1/2" DISTRIBUTION PRESSURE REGULATOR.
 6. INSTALL NEW PUMP AND APPURTENANCES AT RESERVOIR #5, REDWOOD MUTUAL WATER CO. OBTAIN PERMIT FROM REDWOOD MUTUAL WATER CO. CONSTRUCT 3,400 FEET, MORE OR LESS, OF 4" WATER TRANSMISSION SUPPLY LINE FROM RESERVOIR #5 THROUGH SUMMIT ROAD (SANTA CRUZ COUNTY) AND CROSS-COUNTRY TO THE HIGH POINT OF THE SYSTEM. OBTAIN ENCROACHMENT PERMIT FROM CALTRANS.
 7. INSTALL 2,400 FEET, MORE OR LESS, OF 3" CROSS-COUNTRY PIPELINE FROM SYSTEM HIGH POINT TO NEW STORAGE TANK.
 8. INSTALL ONE 1 1/2" PRESSURE REDUCING/BACK PRESSURE SUSTAINING STATION.
 9. INSTALL ONE FLOAT/RELIEF/TANK BY-PASS STATION, TANK DRAIN LINE AND FENCING AROUND TANK SITE.
 10. INSTALL 141,000 GALLON BOLTED STEEL WATER DISTRIBUTION STORAGE TANK COMPLETE WITH APPURTENANCES. OBTAIN BUILDING PERMIT PRIOR TO TANK INSTALLATION.
- PHASE #3**
(NOT APPROVED AT THIS TIME)
11. INSTALL 141,000 GALLON BOLTED STEEL WATER DISTRIBUTION STORAGE TANK COMPLETE WITH APPURTENANCES. OBTAIN BUILDING PERMIT PRIOR TO TANK INSTALLATION.

SHEET INDEX

SHEET NO.	DESCRIPTION
1.	TITLE SHEET
2.	PLAN/PROFILE: PIPELINE "A" - TANK TO STA. 12+58
3.	PLAN/PROFILE: PIPELINE "A" - STA. 12+58 TO STA. 23+80
4.	PLAN/PROFILE: PIPELINE "B" - STA. 15+10 TO STA. 14+37
5.	PLAN/PROFILE: PIPELINE "A" - STA. 23+80 TO STA. 41+10
6.	PLAN/PROFILE: PIPELINE "B" - STA. 00+46 TO STA. 14+37
7.	PLAN/PROFILE: PIPELINE "C" - TANK TO STA. 25+00
8.	PLAN/PROFILE: PIPELINE "C" - STA. 25+00 TO STA. 40+00
9.	PLAN/PROFILE: PIPELINE "C" - STA. 40+00 TO STA. 55+00
10.	PLAN/PROFILE: PIPELINE "C" - STA. 55+00 TO RESERVOIR #5
11.	WATER DISTRIBUTION STORAGE TANK
12.	WATER SUPPLY SYSTEM DETAILS

AS-BUILT PLANS STATEMENT

This is a true copy of the As-Built Plans. There () were () were Not minor field changes - marked with the symbol A. There () were () were not plan revisions indicating significant changes reviewed by the County Surveyor and marked with the symbol B.

Date: _____ Signature: _____

Note: This statement is to be signed by the person authorized by the County Surveyor to perform the inspection work. A reproducible copy of the As-Built plans must be furnished to the County Surveyor after construction.

CONSTRUCTION/ENCROACHMENT/GRADING PERMIT

Permit(s) No.: _____
File(s) No.: _____
Issued by: _____ Date: _____
Land Development Engineering & Surveying
Environmental Management Agency
County of Santa Clara

CONSTRUCTION/ENCROACHMENT/GRADING PERMIT

Permit(s) No.: _____
File(s) No.: _____
Issued by: _____ Date: _____
Land Development Engineering & Surveying
Environmental Management Agency
County of Santa Clara

COUNTY SURVEYOR'S NOTE (PHASE I & II)

Issuance of a permit authorizing construction does not release the Developer, Permittee or Engineer from responsibility for the correction of errors or omissions contained in the plans. If, during the course of construction, the public interest requires a modification of (or a departure from) the specifications or the plans, the County shall have the authority to require the suspension of work and the necessary modification or departure and to specify the manner in which the same is to be made.

Date: SEP 25 1992 James Sirr, County Surveyor

27250 3/2/93
R.C.E. # EXP. DATE

ENGINEER'S STATEMENT

I HEREBY STATE THAT THESE PLANS ARE IN CONFORMANCE WITH ADOPTED COUNTY STANDARDS, THE APPROVED TENTATIVE MAP (OR PLAN) THERETO DATED 8/20/92, FILE(S) NO. 5370-26-43-92P.

DATE: 8/20/92 SIGNATURE: [Signature] R.C.E. NO. 16415 EXP. DATE 6/2/93

AS BUILT DRAWING
DEC 06 1993
DATE: _____ BY: [Signature]

REGISTERED PROFESSIONAL ENGINEER
No. 18418
S. J. BINKLEY
CIVIL
COUNTY OF SANTA CLARA

REVISIONS	BY
12/10/91 ISSUED FOR REVIEW	
3/18/92 ISSUED FOR BIDS	
AS-BUILT 12/06/93	NLF

Binkley Associates
CONSULTING ENGINEERS
7246 SHARON DRIVE • SAN JOSE • CALIFORNIA 95129

BRUSH & OLD WELL MUTUAL WATER CO.
REMEDIAL WATER SYSTEM

TITLE PAGE

DATE: 11/05/91
SCALE: AS SHOWN
DRAWN: R.C.
JOB: 22002
SHEET: 1
OF 12 SHEETS