

REVISIONS	BY
10/23/90	E.J.

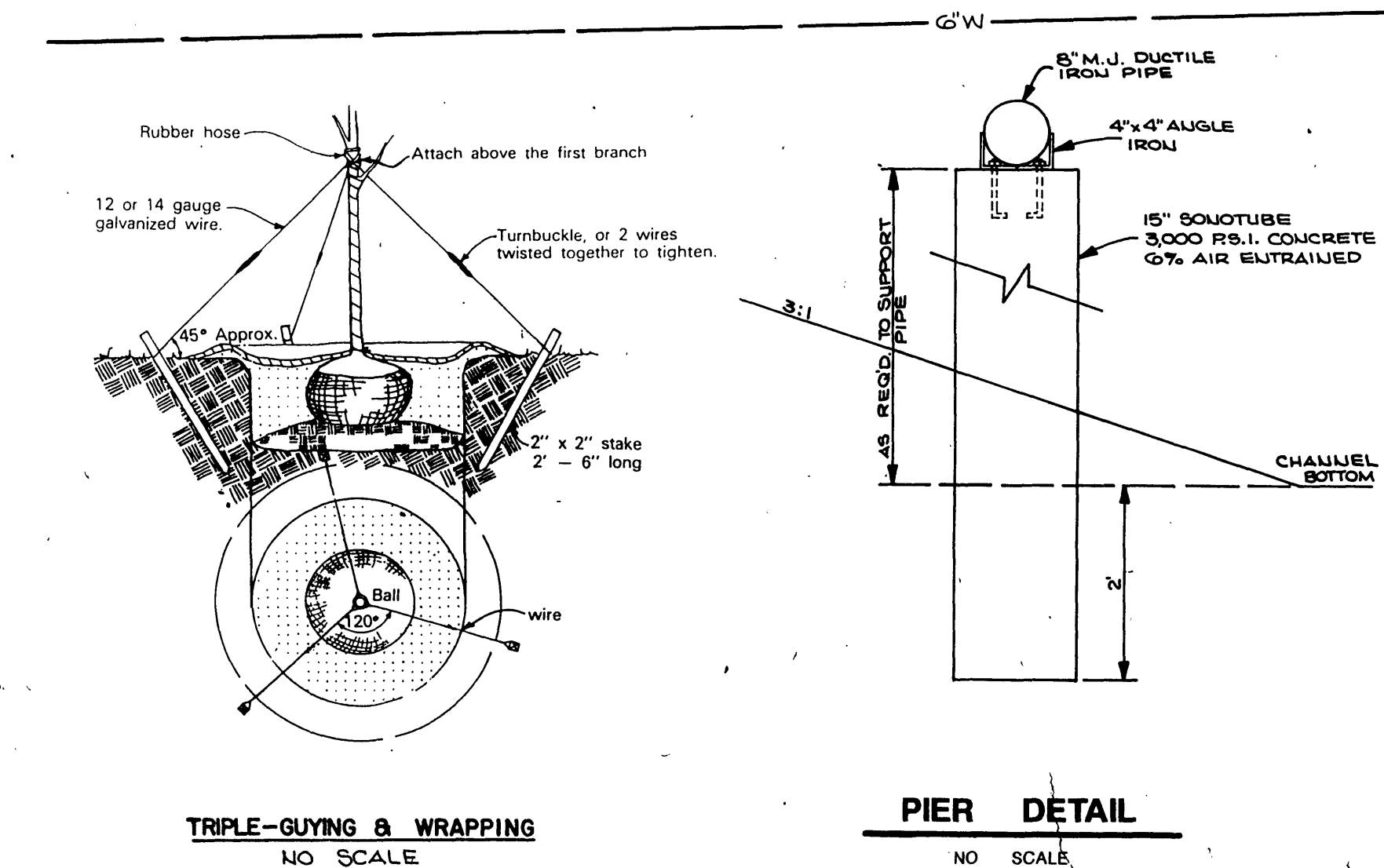
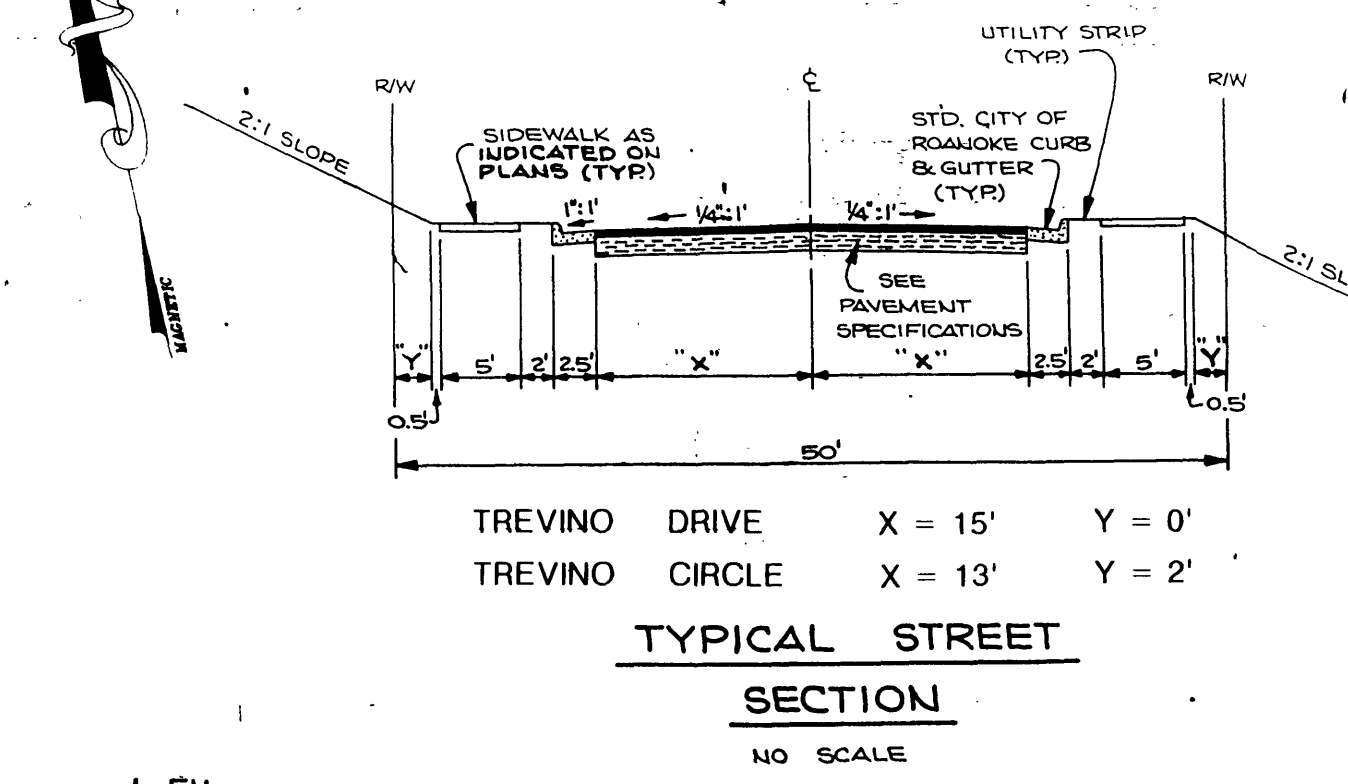
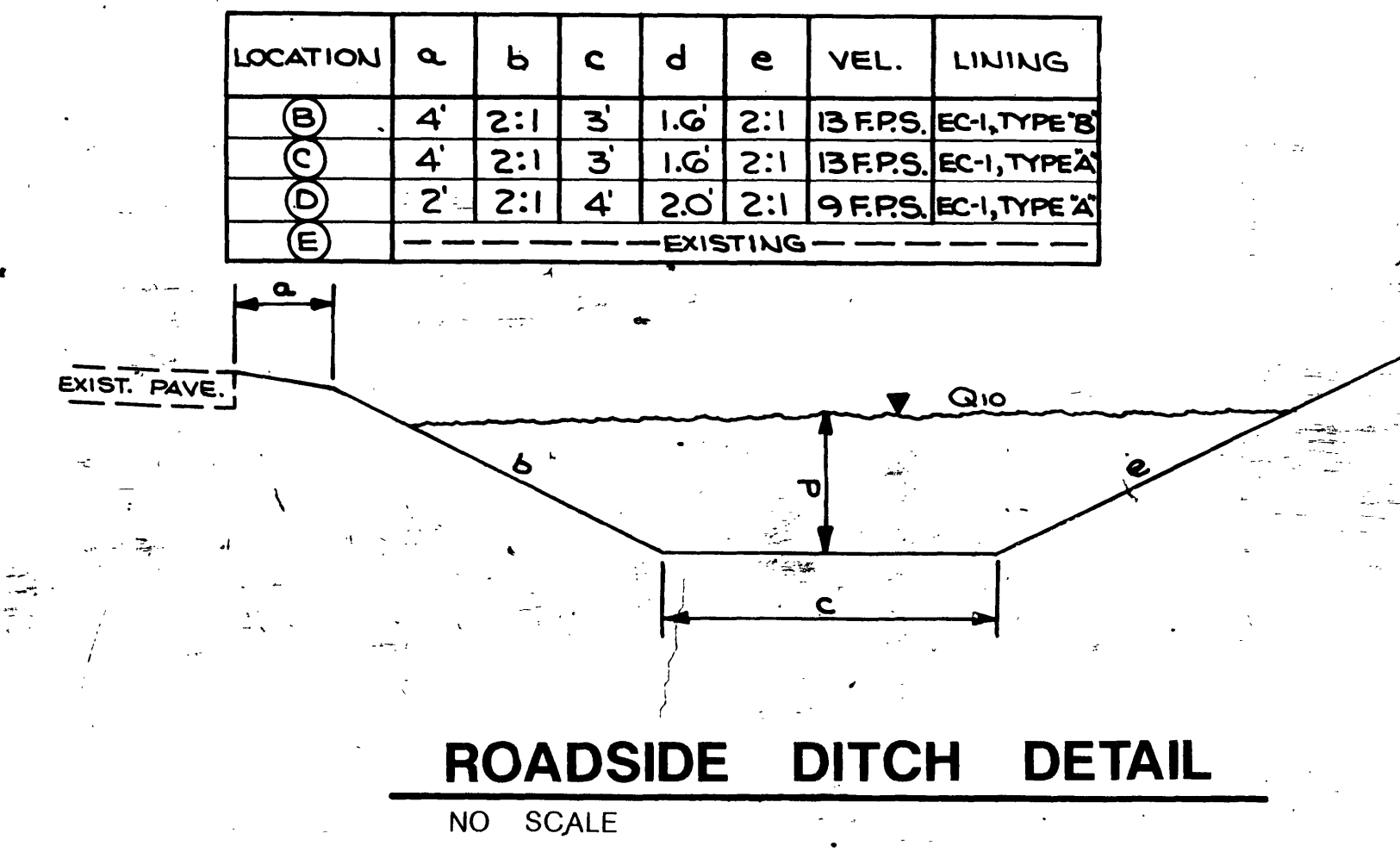
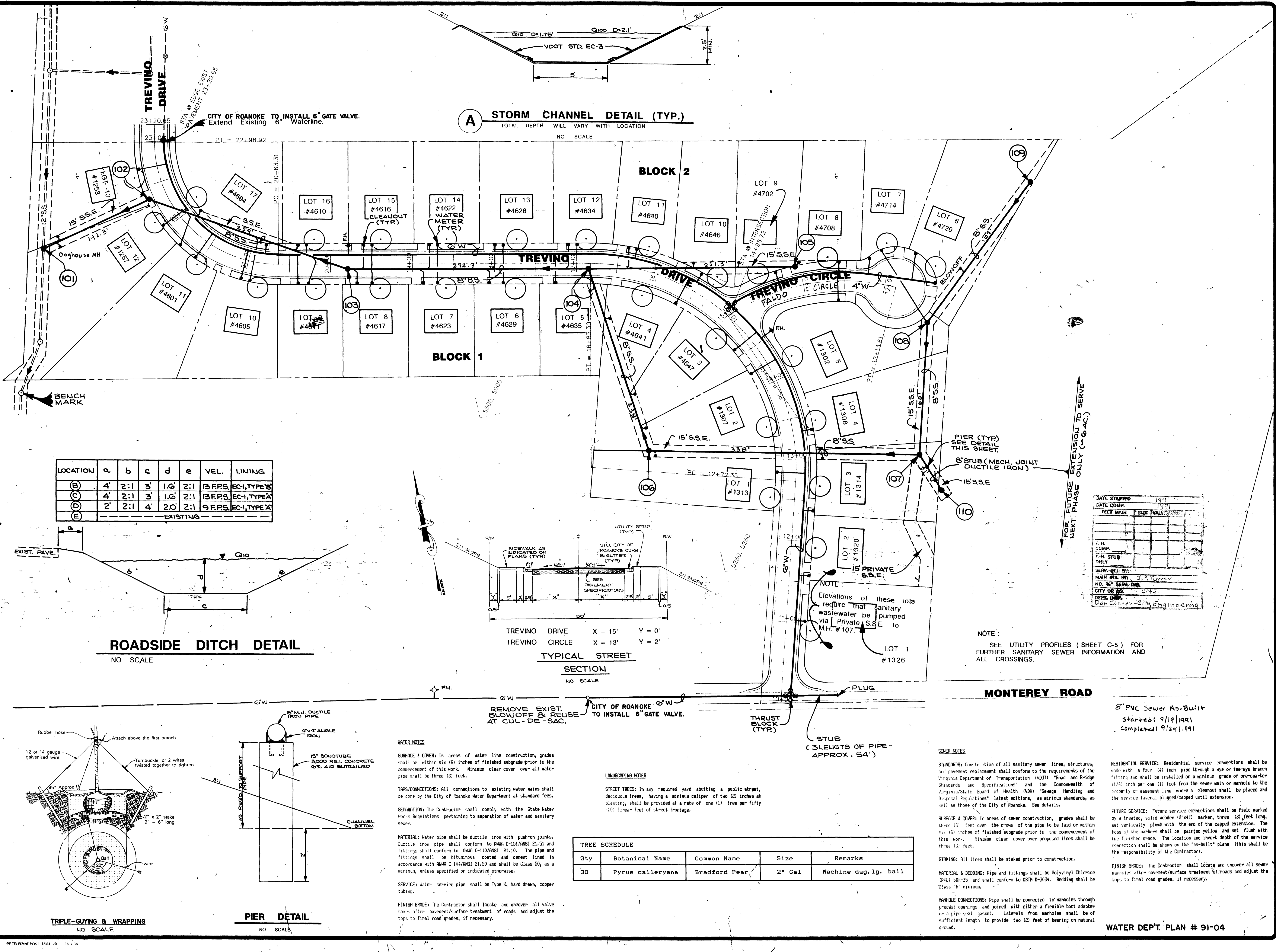
MONTEREY ESTATES
Situates Off TREVINO DRIVE
& MONTEREY ROAD
CITY OF ROANOKE, VIRGINIA

UTILITY PLAN

ENGIN E E R S, P C.
325 Mountain Avenue, Roanoke, Virginia 24016 703-345-8020

DRAWN
E. Joyner
CHECKED
G. Straughn
DATE
7/2/90
SCALE
1" = 50'
JOB NO
90010
SHEET
C-3

OF 6 SHEETS



WATER NOTES

SURFACE & COVER: In areas of water line construction, grades shall be within six (6) inches of finished subgrade prior to the commencement of this work. Minimum clear cover over all water pipe shall be three (3) feet.

TAPS/CONNECTIONS: All connections to existing water mains shall be done by the City of Roanoke Water Department at standard fees.

SEPARATION: The Contractor shall comply with the State Water Works Regulations pertaining to separation of water and sanitary sewer.

MATERIAL: Water pipe shall be ductile iron with push-on joints. Ductile iron pipe shall conform to AWWA C-151/ANSI 21.51 and fittings shall conform to AWWA C-110/ANSI 21.10. The pipe and fittings shall be bituminous coated and cement lined in accordance with AWWA C-104/ANSI 21.50 and shall be Class 50, as a minimum, unless specified or indicated otherwise.

SERVICE: Water service pipe shall be Type K, hard drawn, copper tubing.

FINISH GRADE: The Contractor shall locate and uncover all valve boxes after pavement/surface treatment of roads and adjust the tops to final road grades, if necessary.

LANDSCAPING NOTES

STREET TREES: In any required yard abutting a public street, deciduous trees, having a minimum caliper of two (2) inches at planting, shall be provided at a rate of one (1) tree per fifty (50) linear feet of street frontage.

SEWER NOTES

STANDARDS: Construction of all sanitary sewer lines, structures, and pavement replacement shall conform to the requirements of the Virginia Department of Transportation (VDOT) "Road and Bridge Standards and Specifications" and the Commonwealth of Virginia/State Board of Health (VBH) "Sewage Handling and Disposal Regulations" latest editions, as minimum standards, as well as those of the City of Roanoke. See details.

SURFACE & COVER: In areas of sewer construction, grades shall be three (3) feet over the crown of the pipe to be laid or within six (6) inches of finished subgrade prior to the commencement of this work. Minimum clear cover over proposed lines shall be three (3) feet.

STAKING: All lines shall be staked prior to construction.

MATERIAL & BEDDING: Pipe and fittings shall be Polyvinyl Chloride (PVC) SDR-35, and shall conform to ASTM D-3034. Bedding shall be "Class B" minimum.

MANHOLE CONNECTIONS: Pipe shall be connected to manholes through precast openings and joined with either a flexible boot adapter or a pipe seal gasket. Laterals from manholes shall be of sufficient length to provide two (2) feet of bearing on natural ground.

RESIDENTIAL SERVICE: Residential service connections shall be made with a four (4) inch pipe through a wye or tee-wye branch fitting and shall be installed on a minimum grade of one-quarter (1/4) inch per one (1) foot from the sewer main or manhole to the property or easement line where a cleanout shall be placed and the service lateral plugged/capped until extension.

FUTURE SERVICE: Future service connections shall be field marked by a treated, solid wooden (2"x4") marker, three (3) feet long, set vertically plumb with the end of the capped extension. The tops of the markers shall be painted yellow and set flush with the finished grade. The location and invert depth of the service connection shall be shown on the "as-built" plans (this shall be the responsibility of the Contractor).

FINISH GRADE: The Contractor shall locate and uncover all sewer manholes after pavement/surface treatment of roads and adjust the tops to final road grades, if necessary.

8" PVC Sewer As-Built
Started: 9/19/1991
Completed: 9/24/1991

DATE STARTED	1991
DATE COMP.	1991
FEET MAIN	ONE VALVE
F.H. COMP.	
F.H. STUB ONLY	
SERV. M.D. BY:	
MAIN INS. BY:	J.P. Turner
NO. M. SERV. INS.	
CITY OF VA	City
DEPT. DIV.	San Conner-City Engineering

NOTE:
SEE UTILITY PROFILES (SHEET C-5) FOR FURTHER SANITARY SEWER INFORMATION AND ALL CROSSINGS.