MH #1 Top 54.67
Flowline In
Flowline Out 46.57

MH#2 Top 44.80
Flowline In 36.07
Flowline out 36.58

MH#3 Top 33.80
Flowline In 27.67
Flowline Out 27.07

MH#4 Top 38.67
Flowline In 29.77
Flowline out 29.67

MH#5 Top 1116.65
Flowline In 1112.65
Flowline out 1112.55

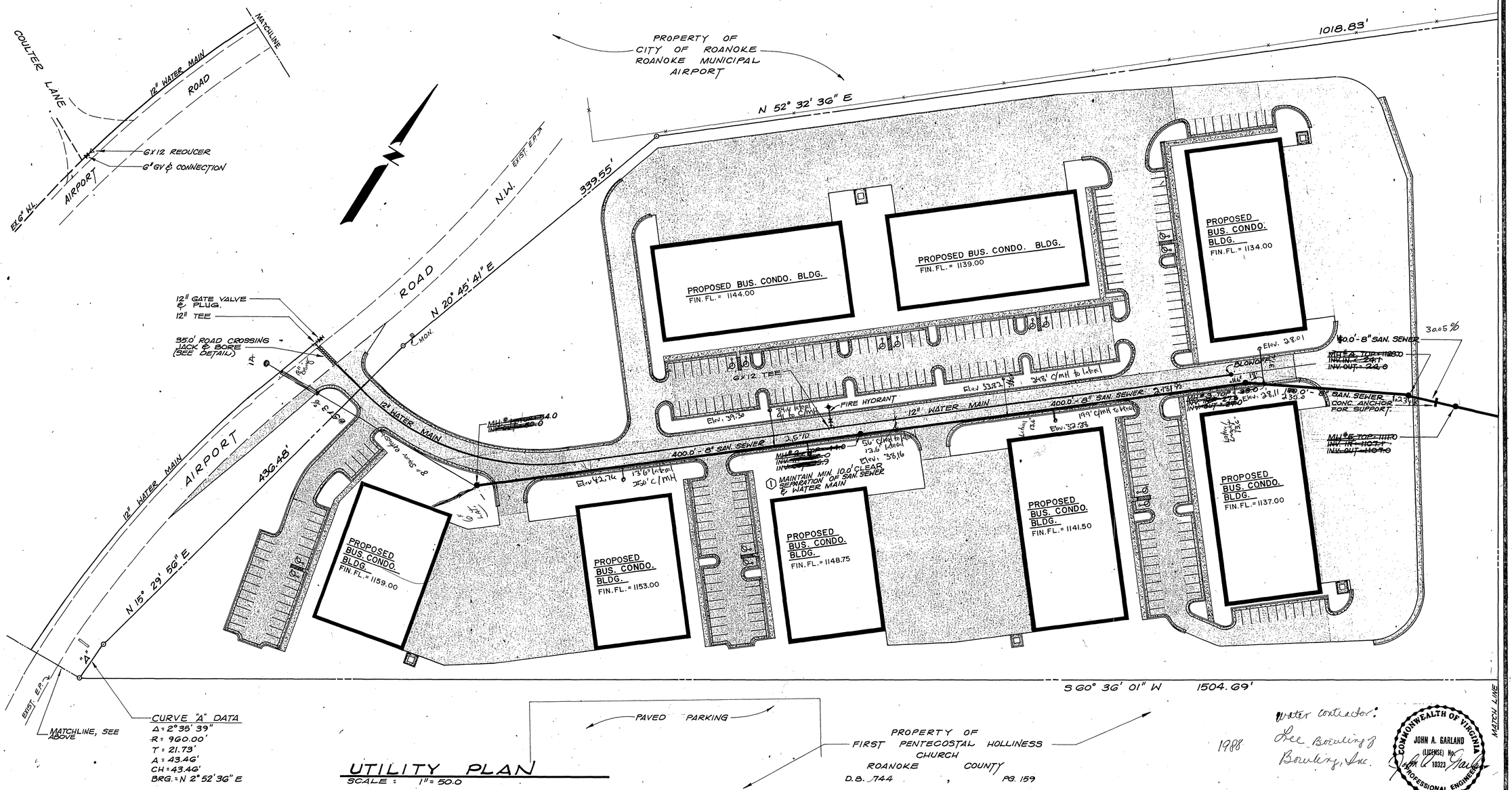
MH#6 Top 1113.64
1107.23
1107.32

SEWER NOTES

1. Pipe and fittings shall be Polyvinyl Chloride (PVC) SDR 35 and shall conform to ASTM D-3034. Bedding shall be class "B" minimum.
2. Pipe shall be connected to manholes through precast openings and joined with either a flexible boot adapter or a pipe seal gasket.
3. Commercial 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 pipe or manhole to the property or easement line where a cleanout shall be placed and the service lateral plugged/capped until extension.
4. Future service connections shall be field marked by a treated, solid wooden (2" x 4") 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 finish grade. The location and invert depth of the service connection shall be shown on the as-built plans.

WATER NOTES

1. In areas of waterline construction, grades shall be within six (6) inches of finished subgrade prior to the commencement of this work.
2. All connections to existing water mains shall be done by the City of Roanoke.
3. 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 21.40. The pipe thickness shall conform to AWWA C-150/ANSI 21.50 and shall be Class 50, as a minimum, unless specified or indicated otherwise.
4. Minimum clear cover over all water pipe shall be three (3) feet.
5. The Contractor shall install all water service connections and meter boxes.
6. Water line installation, testing, disinfection, etc. shall conform to the City of Roanoke Specifications and the Virginia Waterworks Regulations.



UTILITY PLAN
SCALE: 1" = 50.0

Water contractor: Lee Bowling & Bowling, Inc. 1988

COMMONWEALTH OF VIRGINIA
JOHN A. GARLAND
(LICENSE) No. 10323
PROFESSIONAL ENGINEER

REVISIONS	BY
① 8-5-87	ELJ

ROANOKE BUSINESS CONDOMINIUMS
VIRGINIA
ROANOKE

UTILITY PLAN

SPECTRUM ENGINEERS, P.C.
CONSULTING PROFESSIONAL ENGINEERS
325 MOUNTAIN AVENUE - ROANOKE, VIRGINIA 24016 - 703-345-8020

DRAWN	G. E. G.
CHECKED	J. A. G.
DATE	6-29-87
SCALE	AS SHOWN
JOB NO.	87069
SHEET	C-5
OF THIRTEEN SHEETS	

OC-5	OC-5
OL-3A	OL-3A
BS-3	BS-3

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