

# WATER NOTES

- All utilities shall be maintained at 10 feet horizontal separation from subsurface drainfields and sewer lines.
- Thirty (30) feet shall be maintained between subsurface drainfields and waterlines.
- The Contractor shall minimize any disturbance to existing water service or any other utility during construction and provide quality workmanship.
- Water mains shall be PVC Class 150 and in accordance with AWWA C-900.
- All materials, construction, etc. shall meet all the specifications and requirements of the Commonwealth of Virginia/State Board of Health "Waterworks Regulations," latest edition.
- All units shall be equipped with appropriate backflow prevention in accordance with the BOCA code. Cross-connections will not be allowed.
- Water mains shall have a minimum cover of 3.0 feet.
- All pipe joints shall be made in accordance with the manufacturer's instructions.
- A continuous and uniform bedding shall be provided in the trench for all pipe. Stones and rocks found in the trench shall be removed for a depth of at least 6 inches below the bottom of the pipe and tamped selected fill bedding provided. After the pipe has been placed in the trench, the trench shall be backfilled with selected material, thoroughly compacted to 90 percent, 95% under pavement, or concrete slab, of the modified proctor (ASTM D-1557) using care not to damage the pipe.
- All water mains shall be pressure tested at 2 times the working pressure for at least 2 hours with no leakage.
- Water mains shall be disinfected by placing Calcium Hypochlorite tablets at the following rates per 100 linear feet of main:
 

8 inch mains	0.15 lbs.
6 inch mains	0.09 lbs.
4 inch mains	0.05 lbs.
3 inch mains	0.03 lbs.

The tablets shall be placed in each section of pipe, also in hydrants, hydrant branches and all other appurtenances. All tablets shall be attached to the top of the main with Permatex No. 1, as manufactured by the Permatex Co., Brooklyn, New York, or equal approved by the Engineer. The water mains shall be filled slowly and let stand for 24 hours; then the line shall be flushed at 60 gpm until all the chlorine has been removed. Next, 2 samples shall be collected, 24 hours apart, from the end of each line and tested for bacteriological quality. Sample intervals shall in no case exceed 2000 feet. These tests must show the absence of coliform organisms before the line is put in service. The chlorine residual shall not be less than 80 ppm at the beginning and 25 ppm at the end of the sterilization period in accordance with AWWA standards.

- Waterworks Owner: Waterfront Breasle Properties, Inc. Franklin County, Virginia
- Estimated water pressure: 30 psi @ TOWNHOUSES

- All water lines shall be maintained at 10 feet horizontal separation from sewer lines and manholes; the distance shall be measured edge-to-edge. When local conditions prevent the desired horizontal separation, the water line may be laid closer to the sewer or manhole provided that the bottom of the water line shall be at least eighteen (18) inches above the top of the sewer. Where this vertical separation cannot be obtained, the sewer shall be constructed of AWWA approved water pipe and pressure tested in place without leakage prior to backfilling. The sewer manhole shall be of water tight construction and tested in place.

NOTE: FOR WATERLINE PROFILE SEE FAIRWAY BAY PHASE II, SHEET 4 OF 4, PROFILES, B & A # 347-1

## LEGEND:

### LABELS

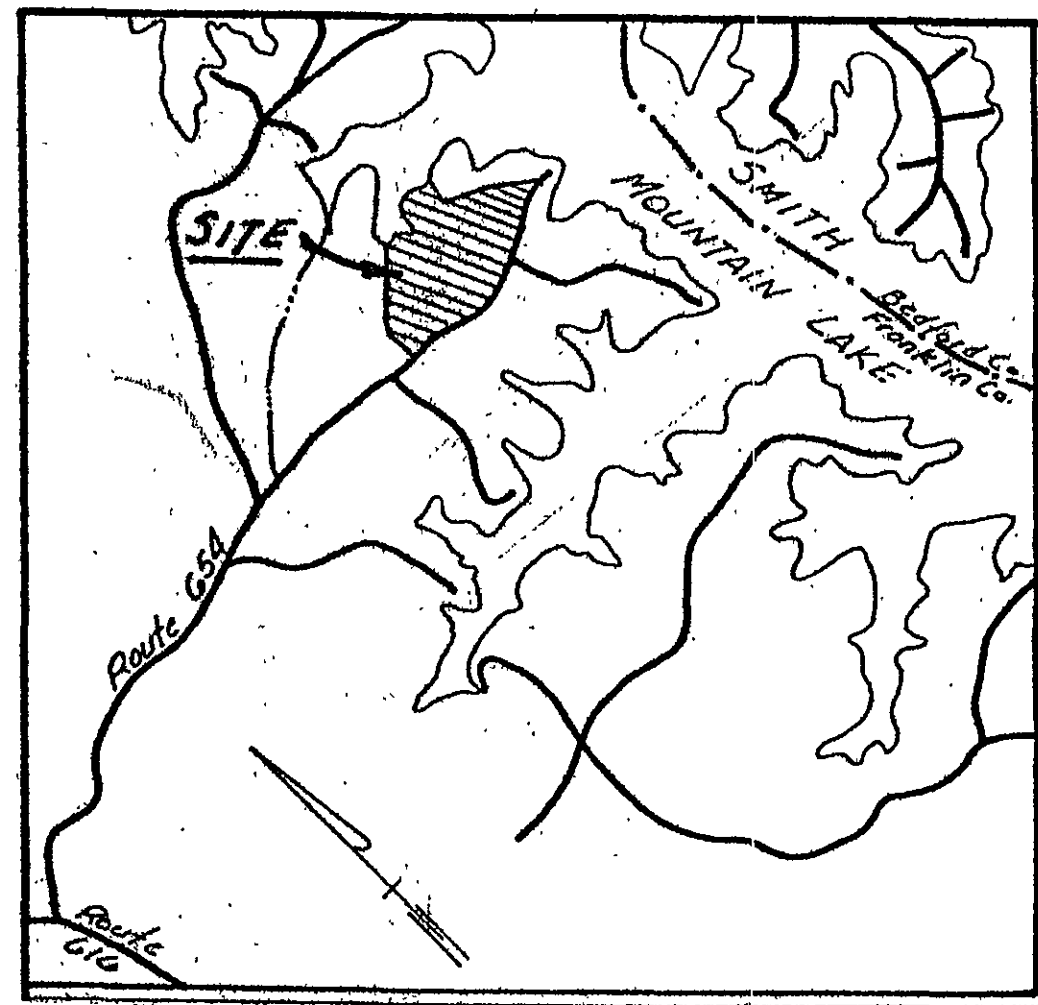
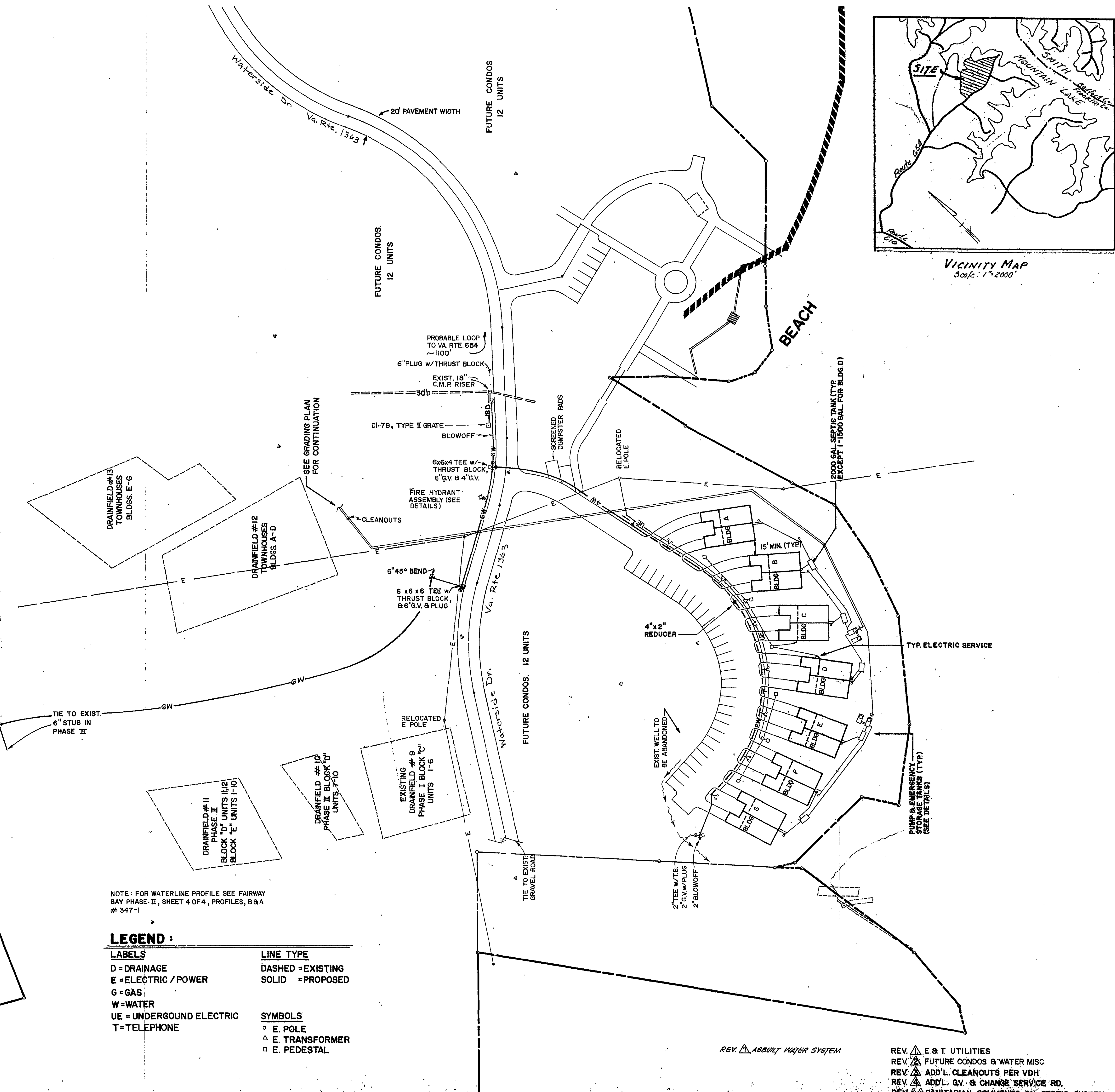
D = DRAINAGE  
E = ELECTRIC / POWER  
G = GAS  
W = WATER  
UE = UNDERGROUND ELECTRIC  
T = TELEPHONE

### LINE TYPE

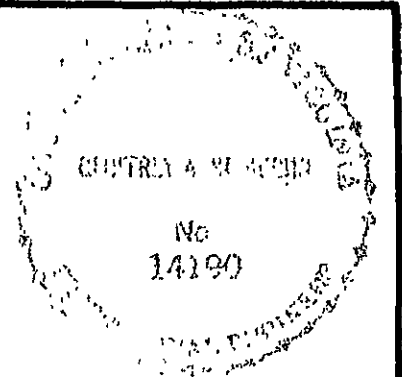
DASHED = EXISTING  
SOLID = PROPOSED

### SYMBOLS

○ E. POLE  
△ E. TRANSFORMER  
□ E. PEDESTAL



VICINITY MAP  
Scale: 1"=2000'



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FAIRWAY BAY  
TOWNHOUSES

SITE & UTILITIES PLAN

FRANKLIN COUNTY,  
VIRGINIA

GILLS CREEK  
DISTRICT

DRAWN BY  
G.S. & D.D.  
DESIGNED BY  
G.S.  
CHECKED BY  
G.S.  
DATE  
1/11/85

REVISIONS  
2-22-85 G.S.  
2-27-85 G.S.  
3-7-85 G.S.  
6-5-85 G.S.  
8/29/85 G.S.  
10/16/85 G.S.  
7-17-86 G.S.

SHEET NO.  
1 OF 4

SCALE:  
1" = 60'

JOB NO.  
401-E

REV. A E & T UTILITIES  
REV. B FUTURE CONDOS & WATER MISC.  
REV. C ADD'L CLEANOUTS PER VDH  
REV. D ADD'L GV & CHANGE SERVICE RD.  
REV. E SANITARIAN COMMENTS ON SEWER SYSTEM

REV. A ABQUILT WATER SYSTEM