

TO SCHEDULE SANITARY SEWER SERVICE CONNECTION, THE WESTERN VIRGINIA WATER AUTHORITY REQUIRES A MINIMUM OF THREE (3) WORKING DAYS NOTICE PRIOR TO THE SCHEDULED WORK.

TO SCHEDULE THE WATER CONNECTION, CONTACT MR. JAMIE MORRIS WITH THE WESTERN VIRGINIA WATER AUTHORITY AT 853-1588, AND PAY A \$400 CONNECTION FEE TO THE WVWA. A MINIMUM OF THREE (3) WORKING DAYS NOTICE IS REQUIRED PRIOR TO THE SCHEDULED WORK.

WATER & SEWER LINES SHALL BE CONSTRUCTED IN ACCORDANCE WITH STANDARDS AND REGULATIONS AS SET FORTH IN THE LATEST EDITION OF THE WESTERN VIRGINIA WATER AUTHORITY, WATER AND WASTEWATER RULES AND REGULATIONS.

REFER TO PLUMBING PLANS FOR UTILITY SERVICE CONNECTION LOCATIONS
AT THE BUILDINGS PRIOR TO BEGINNING SITE INSTALLATION.

1. THE WESTERN VIRGINIA WATER AUTHORITY WILL MAKE THE WATER CONNECTION TO THE WATER MAIN. THE CONTRACTOR IS RESPONSIBLE FOR EXCAVATION AND SHORING PER OSHA REGULATIONS, AND PROVIDING THE TAPPING SLEEVE AND VALVE, PRIOR TO THE WVWA MAKING THE TAP. THE CONTRACTOR IS RESPONSIBLE FOR INSTALLING THE NEW MAIN LINE, SERVICE LINES AND ALL APPURTENANCES FROM THE EXISTING MAIN TO THE BUILDINGS.
2. WATERLINES TO BE 8" CLASS 52 DUCTILE IRON MEETING WVWA SPECIFICATION C151 WITH PUSH-ON JOINTS ON THE PIPE AND MECHANICAL JOINTS ON THE FITTINGS. PROVIDE THRUST BLOCKS AT BENDS, AND TEES.
3. SERVICE LINES TO INDIVIDUAL UNITS TO BE 1" TYPE K COPPER.
4. WATER METER SIZE TO BE 5/8"

<u>ITEM</u>	<u>DETAIL DRAWING</u>
SINGLE WATER METER	W-01
DOUBLE WATER METER	W-04
WATER LINE VALVE INSTALLATION	W-08
BLOW-OFF ASSEMBLY FOR MAIN LINE TEMP. TERMINATION	W-10
FIRE HYDRANT ASSEMBLY	W-18
THRUST BLOCK CONSTRUCTION	W-19
TAPPING SLEEVE AND VALVE	W-23

1. THE WESTERN VIRGINIA WATER AUTHORITY WILL MAKE THE MAIN CONNECTION TO THE EXISTING MANHOLE. THE CONTRACTOR IS RESPONSIBLE FOR EXCAVATION AND SHORING PER OSHA REGULATIONS, PRIOR TO MAKING THE TAP. THE CONTRACTOR IS RESPONSIBLE FOR INSTALLING THE MAIN LINE, SERVICE LATERALS & ALL CLEANNOUTS AND MANHOLES FROM TO THE BUILDINGS.
2. SANITARY SEWER MANHOLES AND CLEANNOUTS MUST BE LOCATED OUTSIDE OF THE SIDEWALKS.

<u>ITEM</u>	<u>DETAIL DRAWING</u>
4' STANDARD MANHOLE	S-01
SANITARY SEWER LATERAL	S-08
SANITARY SEWER LATERAL FOR DEEP SEWER	S-09
COMBINED 6" BY TWO 4" LATERALS	S-11
TRAFFIC BEARING CLEANOUT BOX	S-14

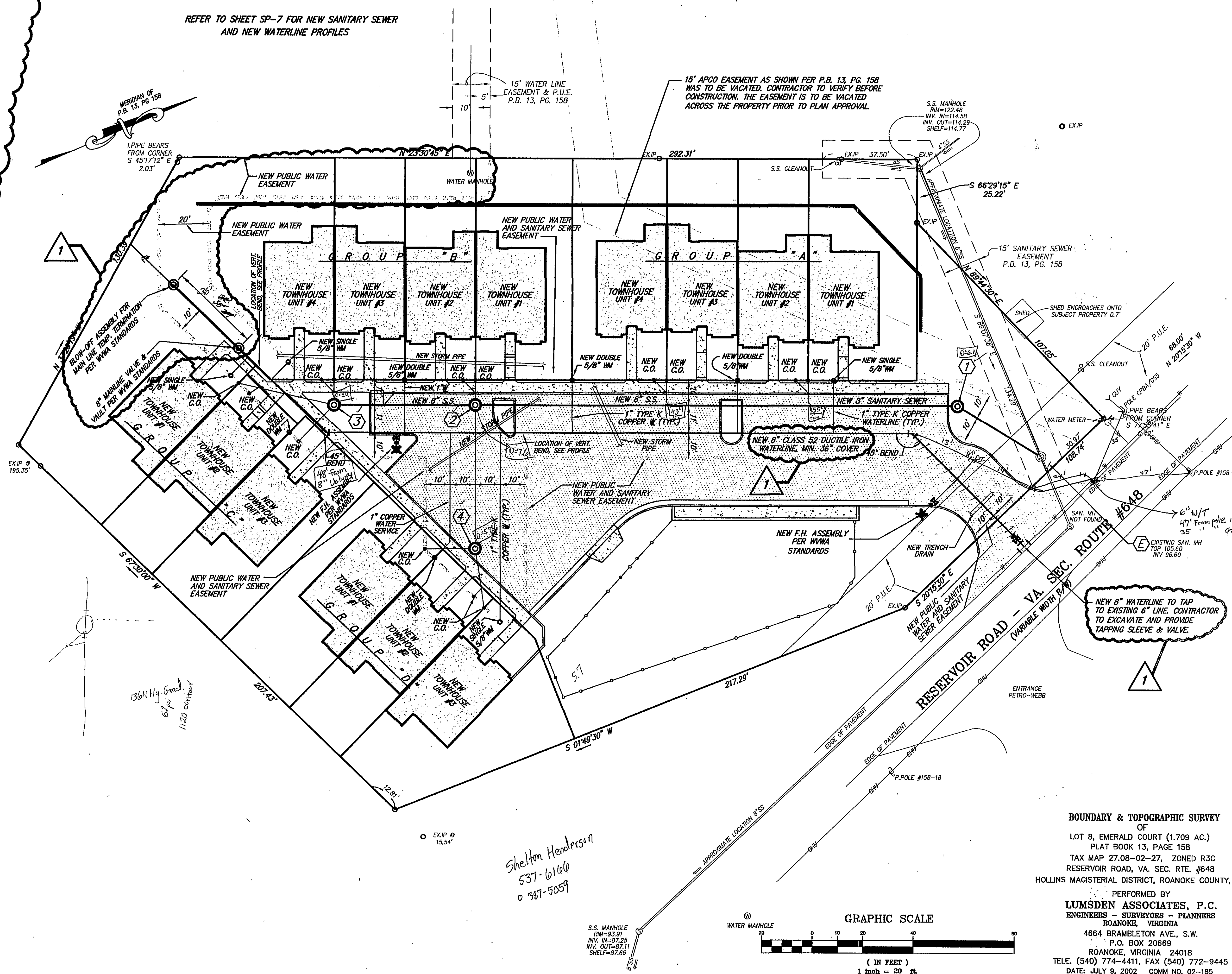
FROM MANHOLE	TO MANHOLE	BEARING	DISTANCE
⑥	⑦	N54°36'50"E	38.52'
⑦	⑧	N23°36'42"E	190.87'
⑧	③	N23°22'25"E	56.03'
⑧	④	S66°29'15"E	56.96'

TOWNHOUSE UNIT & FIN. FLOOR ELEV.	INVERT ELEV. © CLEANOUT	MINIMUM BUILDING SEWER ELEVATION	DESIGN BUILDING SEWER ELEVATION
GROUP "A"			
UNIT #1 112.00'	105.50	107.50	107.50
UNIT #2 112.00'	105.50	107.50	107.50
UNIT #3 114.00'	106.80	108.50	109.50
UNIT #4 114.00'	106.80	108.50	109.50
GROUP "B"			
UNIT #1 117.00'	109.20	111.20'	112.50'
UNIT #2 117.00'	109.20	111.20'	112.50'
UNIT #3 118.00'	112.70	114.70'	114.70'
UNIT #4 118.00'	112.70	114.70'	114.70'
GROUP "C"			
UNIT #1 120.00'	113.30'	115.30'	115.30'
UNIT #2 120.00'	113.30'	115.30'	115.30'
UNIT #3 118.00'	112.80'	114.80'	114.80'
GROUP "D"			
UNIT #1 117.00'	109.95'	111.95'	112.50'
UNIT #2 117.00'	109.80'	111.80'	112.50'
UNIT #3 115.00'	110.00'	112.00'	112.00'

LEGEND

	SANITARY SEWER MANHOLE DESIGNATION
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REFER TO SHEET SP-7 FOR NEW SANITARY SEWER
AND NEW WATERLINE PROFILES



Shelton Henderson
537-6166
2387-5059

7/22/05
treated SS line all passed

8/3/05
pressure treated water line → passed
10.5 psi @ 1 hr 30 min

10/10/05
1st flush / sample

7/27/05
treated all gals
all passed

DATE: JULY 9, 2003
REVISIONS: Δ JUNE 17, 2005
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GARDEN TOWNHOMES
35
47
EMERALD COURT HOMES
ROANOKE COUNT, VIRGINIA

UTILITY SERVICES PLAN

BOUNDARY & TOPOGRAPHIC SURVEY
OF
LOT 8, EMERALD COURT (1.709 AC.)
PLAT BOOK 13, PAGE 158
TAX MAP 27.08--02--27, ZONED R3C
RESERVOIR ROAD, VA. SEC. RTE. #648
HOLLINS MAGISTERIAL DISTRICT, ROANOKE COUNTY, VA.

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DATE: JULY 9, 2002 COMM NO. 02-185

COMMONWEALTH OF VIRGINIA
RICHARD M. HUGHES
CERTIFICATE NO. 2711
COMMISSIONED ARCHITECT

COMMISSION No. **02029**

SHEET

SP-5

No. 5 of 8

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