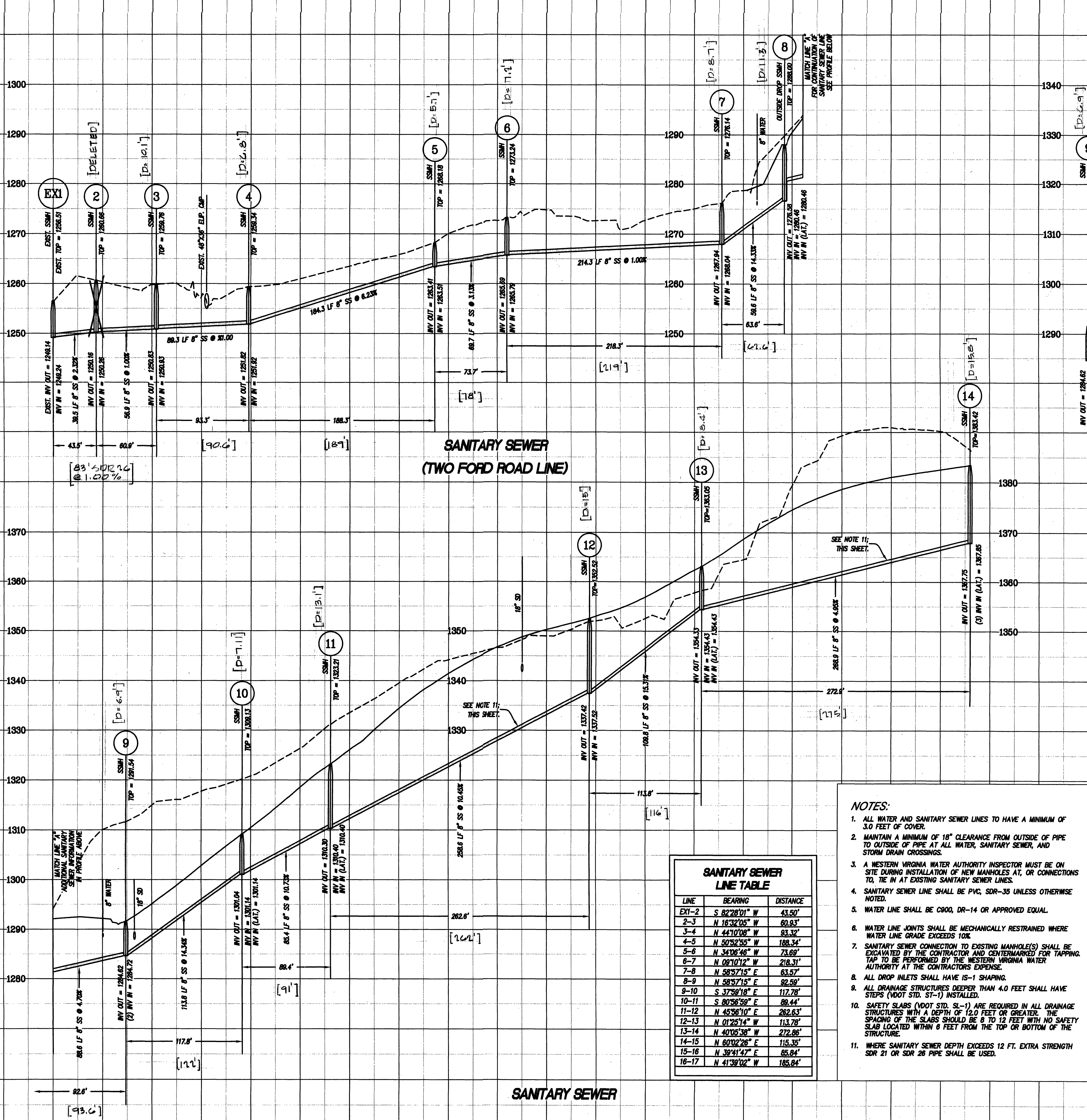




SANITARY SEWER LINE TABLE		
LINE	BEARING	DISTANCE
EXT-2	S 82°28'01" W	43.50'
2-3	N 16°32'05" W	60.93'
3-4	N 44°10'08" W	93.39'
4-5	N 50°52'55" W	188.34'
5-6	N 34°08'46" W	73.69'
6-7	N 09°10'12" W	218.31'
7-8	N 58°57'15" E	63.57'
8-9	N 58°57'15" E	92.59'
9-10	S 37°59'18" E	117.78'
10-11	S 80°56'59" E	89.44'
11-12	N 45°56'10" E	262.63'
12-13	N 01°25'14" W	113.78'
13-14	N 40°05'38" W	272.86'
14-15	N 60°02'28" E	115.35'
15-16	N 39°41'47" E	85.84'
16-17	N 41°39'02" W	185.04'

- NOTES:**
- ALL WATER AND SANITARY SEWER LINES TO HAVE A MINIMUM OF 3.0 FEET OF COVER.
 - MAINTAIN A MINIMUM OF 18" CLEARANCE FROM OUTSIDE OF PIPE TO OUTSIDE OF PIPE AT ALL WATER, SANITARY SEWER, AND STORM DRAIN CROSSINGS.
 - A WESTERN VIRGINIA WATER AUTHORITY INSPECTOR MUST BE ON SITE DURING INSTALLATION OF NEW MANHOLES AT, OR CONNECTIONS TO, TIE IN AT EXISTING SANITARY SEWER LINES.
 - SANITARY SEWER LINE SHALL BE PVC, SDR-35 UNLESS OTHERWISE NOTED.
 - WATER LINE SHALL BE C900, DR-14 OR APPROVED EQUAL.
 - WATER LINE JOINTS SHALL BE MECHANICALLY RESTRAINED WHERE WATER LINE GRADE EXCEEDS 10%.
 - SANITARY SEWER CONNECTION TO EXISTING MANHOLE(S) SHALL BE EXCAVATED BY THE CONTRACTOR AND CENTERMARKED FOR TAPPING. TAP TO BE PERFORMED BY THE WESTERN VIRGINIA WATER AUTHORITY AT THE CONTRACTOR'S EXPENSE.
 - ALL DROP INLETS SHALL HAVE IS-1 SHAPING.
 - ALL DRAINAGE STRUCTURES DEEPER THAN 4.0 FEET SHALL HAVE STEPS (VDOT STD. ST-1) INSTALLED.
 - SAFETY SLABS (VDOT STD. SL-1) ARE REQUIRED IN ALL DRAINAGE STRUCTURES WITH A DEPTH OF 12.0 FEET OR GREATER. THE SPACING OF THE SLABS SHOULD BE 8 TO 12 FEET WITH NO SAFETY SLAB LOCATED WITHIN 6 FEET FROM THE TOP OR BOTTOM OF THE STRUCTURE.
 - WHERE SANITARY SEWER DEPTH EXCEEDS 12 FT. EXTRA STRENGTH SDV 21 OR SDV 26 PIPE SHALL BE USED.

PRIVATE SWM FACILITY DIMENSION TABLE

NOTE: DIMENSIONS APPLY TO "PRIVATE SWM FACILITY SCHEMATIC" SHOWN BELOW.

	D	L	d1	d2	d3		
TYPE	TOTAL LOT BUILDING COVERAGE RANGE	SWM PIPE DIA.	SWM BARREL LENGTH	NUMBER OF BARRELS	INLET PIPE DIA.	OUTLET PIPE DIA.	OUTLET ORIFICE
I	2750 - 3249	36"	24'	2	8"	6"	1 3/8"
II	3250 - 3749	36"	24'	2	8"	6"	1 7/8"
III	3750 - 4249	36"	20'	3	8"	6"	2.0"
IV	4250 - 4749	36"	20'	3	8"	6"	2 1/8"

PRIVATE SWM FACILITY SCHEMATIC (LOTS 1 THRU 4)

NO SCALE

NOTES:

- DIMENSIONS FOR PRIVATE SWM FACILITIES ARE BASED ON LOT BUILDING COVERAGE IN SQUARE FEET. SEE "PRIVATE SWM FACILITY DIMENSION TABLE" FOR CORRESPONDING PIPE SIZES AND DIMENSIONS.
- HDPE PIPE SHALL BE ADS N-12 OR APPROVED EQUIVALENT.
- HDPE SWM TANK PIPES SHALL HAVE MIN. 3 FT. COVER.
- INDIVIDUAL SWM FACILITIES TO BE LOCATED AS SHOWN IN PLAN.
- ALL PIPES SHALL HAVE A MINIMUM SLOPE OF 1.0%.
- ALL PIPE CONNECTIONS SHALL BE MADE PER MANUFACTURER DETAILS AND SPECIFICATIONS.
- VDOT PIPE INSTALLATION STANDARDS SHALL APPLY.
- PRIOR TO CONSTRUCTION SHOP DRAWINGS SHALL BE SUBMITTED TO ROANOKE COUNTY FOR APPROVAL. SHOP DRAWING SHALL INCLUDE, BUT NOT BE LIMITED TO, JOINING, BRACING, FLOATATION PROTECTION, BEDDING AND BACKFILL REQUIREMENTS.
- SEE PLAN FOR APPROXIMATE PLACEMENT LOCATION OF PRIVATE SWM FACILITY.

"THE PRESERVE AT TWO FORD ROAD"
PREPARED FOR
BENCHMARK BUILDERS, INC.
WINDSOR HILLS MAGISTERIAL DISTRICT
ROANOKE COUNTY, VIRGINIA

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COMMONWEALTH OF VIRGINIA
THOMAS C. DALE
No. 033002
12/05
PROFESSIONAL ENGINEER

SANITARY SEWER PROFILES

REVISIONS
NO. DATE DESCRIPTION
1 11/15/10 WATER SEWER AS BUILT

DATE: October 12, 2005
SCALE: 1:50(H), 1:10(V)
COMMISSION NO.: 02-244
SHEET 8 OF 13