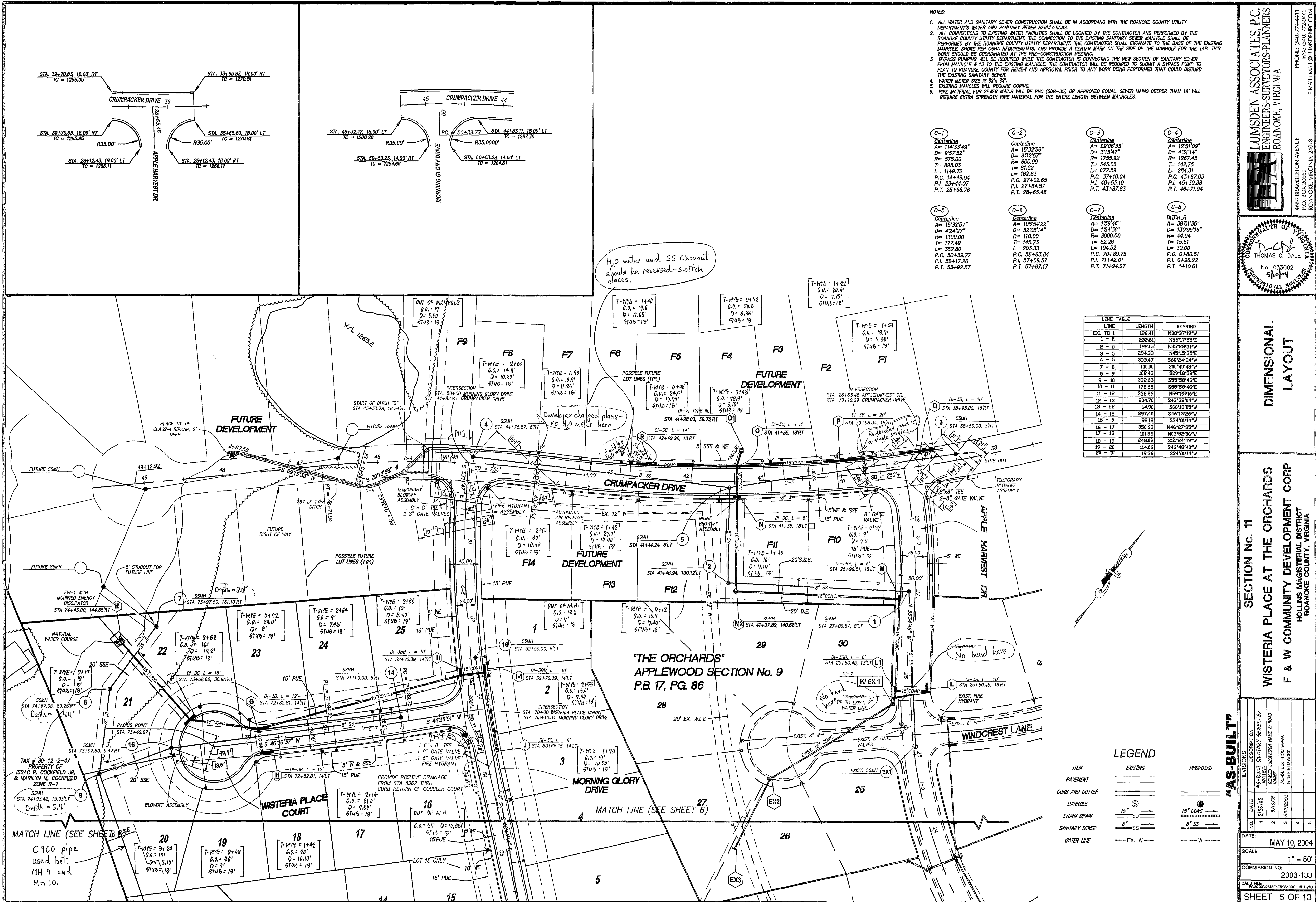




- NOTES:
1. ALL WATER AND SANITARY SEWER CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE ROANOKE COUNTY UTILITY DEPARTMENT'S WATER AND SANITARY SEWER REGULATIONS.
 2. ALL CONNECTIONS TO EXISTING WATER FACILITIES SHALL BE LOCATED BY THE CONTRACTOR AND PERFORMED BY THE ROANOKE COUNTY UTILITY DEPARTMENT. THE CONNECTION TO THE EXISTING SANITARY SEWER MANHOLE SHALL BE PERFORMED BY THE ROANOKE COUNTY UTILITY DEPARTMENT. THE CONTRACTOR SHALL EXCAVATE TO THE BASE OF THE EXISTING MANHOLE, SHORE PER OSHA REQUIREMENTS, AND PROVIDE A CENTER MARK ON THE SIDE OF THE MANHOLE FOR THE TAP. THIS WORK SHOULD BE COORDINATED AT THE PRE-CONSTRUCTION MEETING.
 3. BYPASS PUMPING WILL BE REQUIRED WHILE THE CONTRACTOR IS CONNECTING THE NEW SECTION OF SANITARY SEWER FROM MANHOLE # 13 TO THE EXISTING MANHOLE. THE CONTRACTOR WILL BE REQUIRED TO SUBMIT A BYPASS PUMP TO PLAN TO ROANOKE COUNTY FOR REVIEW AND APPROVAL PRIOR TO ANY WORK BEING PERFORMED THAT COULD DISTURB THE EXISTING SANITARY SEWER.
 4. WATER METER SIZE IS 3/4".
 5. EXISTING MANHOLES WILL REQUIRE CORING.
 6. PIPE MATERIAL FOR SEWER MAINS WILL BE PVC (SDR-35) OR APPROVED EQUAL SEWER MAINS DEEPER THAN 18" WILL REQUIRE EXTRA STRENGTH PIPE MATERIAL FOR THE ENTIRE LENGTH BETWEEN MANHOLES.

C-1 Centerline A= 114'33.49" D= 95'52" R= 675.00 T= 895.03 L= 1149.72 P.C. 14+49.04 P.T. 25+98.76	C-2 Centerline A= 153'25.68" D= 93'52" R= 600.00 T= 81.92 L= 162.83 P.C. 27+02.65 P.T. 28+65.48	C-3 Centerline A= 22'08.35" D= 31'51.47" R= 1755.92 T= 343.06 L= 677.59 P.C. 37+10.04 P.T. 43+67.63	C-4 Centerline A= 125'11.09" D= 43'11.44" R= 1287.45 T= 142.75 L= 284.31 P.C. 43+87.63 P.T. 46+71.94
C-5 Centerline A= 153'25.77" D= 93'52.77" R= 1300.00 T= 177.49 L= 352.80 P.C. 50+39.77 P.T. 53+92.57	C-6 Centerline A= 105'54.22" D= 52'05.14" R= 110.00 T= 145.73 L= 203.33 P.C. 59+63.84 P.T. 57+67.17	C-7 Centerline A= 159'46" D= 154'36" R= 3000.00 T= 52.28 L= 104.52 P.C. 70+89.75 P.T. 71+94.27	C-8 DITCH B A= 39'01.35" D= 130'05.16" R= 44.04 T= 15.61 L= 30.00 P.C. 0+80.61 P.T. 0+96.22

LINE	LENGTH	BEARING
EX1 TO 1	195.41	N38°37'19"W
1 - 2	232.61	N56°17'55"E
2 - 5	122.15	N35°28'31"E
3 - 5	294.33	N45°19'35"E
4 - 5	333.47	S60°24'24"W
7 - 8	100.00	S00°40'48"W
8 - 9	108.43	S29°18'58"E
9 - 10	332.63	S55°58'46"E
10 - 11	178.66	S55°58'46"E
11 - 12	336.86	N59°55'16"E
12 - 13	204.70	S43°58'04"E
13 - E2	14.90	S60°13'05"W
14 - 15	297.40	S46°13'26"W
15 - 9	98.18	S34°01'14"W
16 - 17	350.63	N46°27'35"W
17 - 18	101.86	N03°52'06"W
18 - 19	248.09	S51°24'49"W
19 - 20	114.06	S46°48'40"W
20 - 10	19.36	S34°01'14"W

ITEM	EXISTING	PROPOSED
PAVEMENT		
CURB AND GUTTER		
MANHOLE	15" SD	15" CONC
STORM DRAIN	8" SS	8" SS
SANITARY SEWER	EX. W	W
WATER LINE		

LUMSDEN ASSOCIATES, P.C.
ENGINEERS-SURVEYORS-PLANNERS
ROANOKE, VIRGINIA

4664 BRAMBLETON AVENUE
P.O. BOX 20669
ROANOKE, VIRGINIA 24018

PHONE: (540) 774-4411
FAX: (540) 772-9445
E-MAIL: MAIL@LUMSDENPC.COM

COMMONWEALTH OF VIRGINIA
THOMAS C. DALE
No. 033002
5-10-14
PROFESSIONAL ENGINEER

SECTION No. 11
WISTERIA PLACE AT THE ORCHARDS
F & W COMMUNITY DEVELOPMENT CORP
HOLLINS MAGISTERIAL DISTRICT
ROANOKE COUNTY, VIRGINIA

"AS-BUILT"

REVISIONS	DATE	DESCRIPTION
1	2/15/05	44-2411: SANITARY REVIEW & REMEDIAL SUBMISSION NAME & ROAD NAMES
2	5/16/05	AS-BUILT'S FROM WWA GPS FIELD WORK
3	9/16/05	
4		
5		

DATE: MAY 10, 2004
SCALE: 1" = 50'
COMMISSION NO.: 2003-133
CADD FILE: S:\03\033\033\EN\1330\COMP.DWG
SHEET 5 OF 13