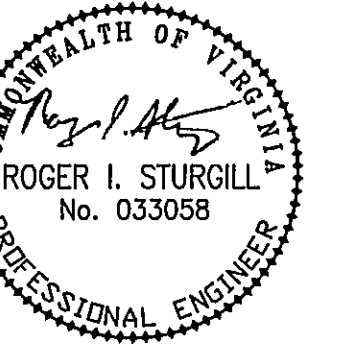




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WENTWORTH OFFICE PARK  
GRADING PLAN  
WINDSOR HILLS  
ROANOKE COUNTY, VIRGINIA

DRAWN BY: BTC  
DESIGNED BY: SMH  
CHECKED BY: RIS  
DATE: 12-1-06  
REVISIONS:  
1-24-07  
2-28-07  
6-12-07  
8-30-07 F.R.  
9-14-07 F.R.  
10-19-07 F.R.  
11-16-07 F.R.  
12-7-07 F.R.

SCALE: 1"=20'  
SHEET NO.  
**C-4**  
JOB NO.  
R0600258.01

| STORM SEWER STRUCTURE SCHEDULE                                              |                                                                                    |
|-----------------------------------------------------------------------------|------------------------------------------------------------------------------------|
| 1 DI-38 (12")<br>TOP=1153.9<br>INV OUT=1149.9<br>156 LF OF 15"<br>HDPE @ 1% | 14 8 LF OF 18"<br>CMP @ 0.8%                                                       |
| 2 DI-38 (12")<br>TOP=1153.9<br>INV OUT=1149.9<br>156 LF OF 15"<br>HDPE @ 1% | 15 DI-38 (6")<br>TOP=1143.5<br>INV =1136.05                                        |
| 3 DI-1<br>TOP=1156.5<br>INV IN=1152.25 (STR.24)<br>INV OUT=1148.25          | 16 8 LF OF 18"<br>RCP @ 0.8%                                                       |
| 4 54.25 LF OF 15"<br>HDPE @ 1.0%                                            | 17 MH-1 (9")<br>TOP=1143.5<br>INV OUT=1136                                         |
| 5 MH-1<br>TOP=1152.25<br>INV IN=1147.7<br>INV OUT=1147.6                    | 18 63 LF OF 18"<br>RCP @ 0.5%                                                      |
| 6 61 LF OF 15"<br>HDPE @ 7.5%                                               | 19 HYDROGUARD HG-6<br>STORMWATER QUALITY UNIT<br>TOP =140.5<br>INV IN/OUT =1135.68 |
| 7 MH-1 (OROP)<br>TOP=1147.0<br>INV IN=1143.0 (STR.6)<br>INV OUT=1136.5      | 20 43 LF OF 18"<br>RCP @ 2.2%                                                      |
| 8 5 LF OF 36"<br>CMP @ 1.0%                                                 | 21 NYOPLAST GRATE INLET<br>TOP=1157<br>INV OUT=1154                                |
| 9 DI-38 (9")<br>TOP=1142.5<br>INV OUT=1142.5                                | 22 15 LF OF 12"<br>HDPE @ 2.0%                                                     |
| 10 32 LF OF 15"<br>HDPE @ 0.63%                                             | 23 NYOPLAST C.O. TYP.<br>TOP=1157.75<br>INV. =1153.70                              |
| 11 DI-3A (4")<br>TOP=1146.5<br>INV IN=1142.30<br>INV OUT=1142.20            | 24 72 LF OF 12"<br>HDPE @ 2%<br>INV. IN=1152.25<br>(TIE TO STR. 3)                 |

**GRADING NOTES:**  
1. G.C. TO ENSURE THAT ADEQUATE COVER (36" MIN.) IS PROVIDED OVER THE EXISTING 8" WATERLINE ADJACENT TO ROUTE 419. G.C. SHALL ALSO VERIFY DEPTH OF WATERLINE PRIOR TO CONSTRUCTION SINCE THE DEPTHS ARE ON EXISTING WATERLINES ARE VARIABLE.

| SANITARY SEWER STRUCTURE SCHEDULE                                      |  |
|------------------------------------------------------------------------|--|
| A CLEAN OUT TYP.<br>TOP=1137.00<br>INV=1128.65                         |  |
| B SAMPLING MANHOLE<br>TOP=1144.25<br>INV IN=1139.35<br>INV OUT=1139.25 |  |
| C CLEAN OUT TYP.<br>TOP=1144.50<br>INV=1140                            |  |
| D CLEAN OUT TYP.<br>TOP=1150.00<br>INV=1147.00                         |  |
| E SAMPLING MANHOLE<br>TOP=1156.60<br>INV =1152.00                      |  |
| F CLEAN OUT TYP.<br>TOP=1157.5<br>INV =1153.00                         |  |

