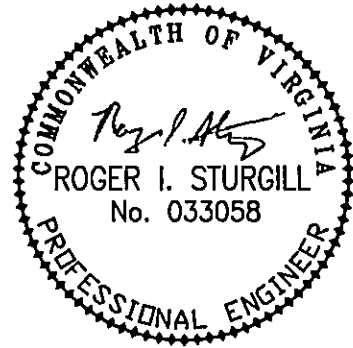




REFLECTING TOMORROW
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PLANNERS • ARCHITECTS
ENGINEERS • SURVEYORS

1208 Corporate Circle
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Christiansburg, Virginia 24073
Phone: 540/381-4290
FAX: 540/381-4291

1591 Commerce Road
Suite 401
Virginia, Virginia 24482
Phone: 540/248-3220
FAX: 540/248-3221

BOJANGLES RESTAURANT

GRADING PLAN

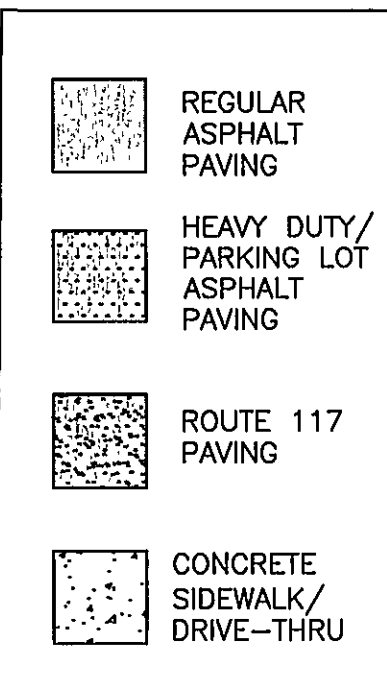
HOLLINS
COUNTY OF ROANOKE, VIRGINIA

DRAWN BY: BTC
DESIGNED BY: BTC
CHECKED BY: RIS
DATE: 2-15-07
REVISIONS:
4-18-07
6-5-07
6-29-07

SCALE: 1"=20'
SHEET NO.

C-4

JOB NO.
R0600307.00



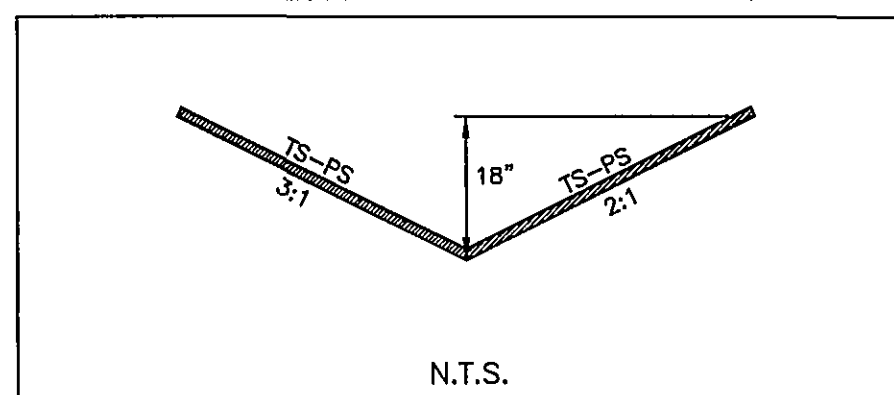
STORM SEWER STRUCTURE SCHEDULE

- | | | | |
|---|--|----|---|
| 1 | DI-38 (8")
TOP=1115.50
INV OUT=1111.50 | 9 | DI-38 (12")
TOP=1107.5
INV OUT=1103.5 |
| 2 | 144.5 LF OF 15"
RCP @ 1.0%
INV IN=1111.00
(ROOF DRAIN) | 10 | 32 LF OF 15"
RCP @ 0.75% |
| 3 | DI-38 (4")
TOP=1115.50
INV IN=1110.06
INV OUT=1109.96 | 11 | DI-38 (6")
TOP=1107.25
INV IN=1103.25
INV OUT=1103.15 |
| 4 | 112 LF OF 15"
RCP @ 1.0% | 12 | 15 LF OF 15"
RCP @ 0.53%
INV OUT=1103.07
W/VDOT STD ES-1 |
| 5 | DI-1 TOP
W/ HG-6 HYDROGUARD
STORMWATER QUALITY
FILTRATION UNIT
TOP=1114.0
INV IN=1108.76
INV OUT=1108.66 | 13 | 4' CONC. STANDPIPE
W/CIRCULAR DI-7 TOP
TOP=1108.68
INV OUT=1099.00 |
| 6 | 23 LF OF 15"
RCP @ 8.73%
INV OUT=1106.65
W/VDOT STD ES-1 | 14 | 43.5 LF OF 24"
RCP @ 5.67% |
| 7 | DI-38 (8")
TOP=1116.05
INV=1112.05 | 15 | MH-1-DROP MANHOLE
TOP=1103.25
INV IN=1096.53
INV OUT=1090.55 |
| 8 | 75 LF OF 15"
RCP @ 4.98% | 16 | 31 LF OF 24"
RCP @ 1.5%
INV OUT=1090.10
W/VDOT STD ES-1 |
| | | 17 | 65 LF OF 15"
RCP @ 0.50%
INV OUT=1091.07
INV OUT=1090.75
(2) W/VDOT STD ES-1
FOR EACH PIPE END |

SANITARY SEWER STRUCTURE SCHEDULE

- | | |
|---|--|
| A | CLEAN OUT TYP.
TOP=1100.91
INV=1094.8 |
| B | CLEAN OUT TYP.
TOP=1111.53
INV=1103.52 |
| C | SAMPLING MANHOLE
TOP=1116.0
INV OUT=1111.0 |
| D | CLEAN OUT TYP.
TOP=1116.75
INV=1111.48 |

ROUTE 117 DITCH SECTION:



*DITCH SECTION FOR PORTION OF ROADSIDE DITCH BEING REGRADED
AS SHOWN FROM THE TERMINATION OF THE CONC. DITCH LINE

SWM FACILITY NOTE:

1. A LICENSED PROFESSIONAL ENGINEER, OR AN ACCEPTABLE
CONSULTING FIRM, SHALL INSPECT THE EMBANKMENT CONSTRUCTION TO
ENSURE IT IS PROPERLY CONSTRUCTED. A LETTER SEALED BY A
PROFESSIONAL ENGINEER SHALL BE PROVIDED TO THIS OFFICE
CERTIFYING THE CONSTRUCTION.

GRAPHIC SCALE

