EX. CONCRETE FLUME SHALL BE REMOVED UP TO THE STARTING STATION (10+00) OF PROPOSED TRIBUTARY WORK TO ALLOW CONSTRUCTION OF STEP POOLS.

NO RIPRAP SHALL BE INSTALLED OVER SANITARY SEWER LINE. PLACE 5' OF CLASS II RIPRAP (1' DEEP) UPSTREAM AND DOWNSTREAM OF THE CROSSING UP TO BANKFULL. REINFORCED BED MATERIAL SHALL BE PLACED DIRECTLY ON TOP OF THE CROSSING (5' WIDTH) TO COVER PIPE BETWEEN RIPRAP STABILIZATION. SALVAGED COBBLE, GRAVEL AND SAND SUBSTRATE SHALL BE PLACED OVER CLASS II RIPRAP.

TRIBUTARY 5

FOREST EDGE SOUTH

NO RIPRAP SHALL BE INSTALLED OVER SANITARY SEWER LINE. PLACE 5' OF CLASS II RIPRAP (1' DEEP) UPSTREAM AND DOWNSTREAM OF THE CROSSING UP TO BANKFULL. REINFORCED BED MATERIAL SHALL BE PLACED DIRECTLY ON TOP OF THE CROSSING (5' WIDTH) TO COVER PIPE BETWEEN RIPRAP STABILIZATION. SALVAGED COBBLE, GRAVEL AND SAND SUBSTRATE SHALL BE PLACED OVER CLASS II RIPRAP.

CONTRACTOR SHALL TAKE EXTRA CARE WHEN WORKING AROUND THE EXISTING SANITARY SEWER LINES. CONTRACTOR SHALL NOT SIT EQUIPMENT ON THE LINE, EXCAVATE, OR POUND ROCKS INTO PLACE OVER THE LINE, ETC.

PROPOSED STREAM RESTORATION EASEMENT (PENDING COUNTY APPROVAL)

STREAM RESTORATION EASEMENTS D.B. 19148, PG. 143 D.B. 19148, PG. 183

TEMPORARY ACCESS PATH

TEMPORARY ACCESS PATH - REFER TO EROSION AND SEDIMENT CONTROL PLAN FOR DETAILS

CONTACT MISS UTILITY (800-552-7001) PRIOR TO COMMENCING ANY WORK.

WORK TO BE LIMITED TO WITHIN THE EXISTING CHANNEL AS MUCH AS POSSIBLE USING SUITABLE TRACKED EQUIPMENT TO LIMIT IMPACT TO TREES AND OTHERWISE STABLE BANKS.

PRIOR TO CONSTRUCTION, LOC SHALL BE WALKED WITH WSSI STAFF AND CONTRACTOR TO CONFIRM TREE REMOVAL

GRAPHIC SCALE
20 0 10 20 40 80
(IN FEET) 1 inch = 20 feet

REFER TO TYPICAL CROSS SECTION SHEET FOR GRADING AND PROFILE LEGENDS AND NOTES.

MATCHLINE B - SEE SHEET 4

MATCHLINE C - SEE SHEET 6

GRADING PLAN & PROFILE SHEET INDEX
N SHORE
RING ROAD
BECONTREE
SHEET 3
SHEET 4
SHEET 5
SHEET 6
SHEET 7
SHEET 8

LONGITUDINAL PROFILE – FOREST EDGE SOUTH (STA 22+00 TO 28+00)

MODIFIED CROSS-VANE 3.64% 22.00'
2 STEP POOL
PT = 22+39.11
PC = 23+16.92
MEANDER RIGHT
PT = 24+10.09
PC = 25+22.46
MEANDER LEFT
PT = 25+54.89
PC = 25+92.87
MEANDER RIGHT
PT = 26+31.66
PC = 26+95.86
MEANDER LEFT
PT = 27+48.74
CENTERLINE CURVE LABELS
CENTERLINE PC & PT LOCATIONS
EXISTING 8" SANITARY TOP OF PIPE EL = 282.78 INVERT EL = 282.03 DISTANCE BELOW INVERT = 1.9'
2 STEP POOL
EXISTING 8" SANITARY TOP OF PIPE EL = 281.21 INVERT EL = 280.46 DISTANCE BELOW INVERT = 1.0'
IN-STREAM HABITAT LOG IN-STREAM HABITAT LOG
1.0' OF REINFORCED BED MATERIAL (SEE CONSTRUCTION SEQUENCE, SEDIMENT SIZING, AND TYPICAL CROSS SECTIONS FOR SPECIFICATIONS)
LOG J-HOOK 4.73% 22.00'
3 STEP POOL
MOD 2-STEP CROSS-VANE 3.62% 22.00'
CLASS II RIPRAP – SEE NOTE ABOVE ON GRADING PLAN FOR PLACEMENT
CLASS II RIPRAP – SEE NOTE ABOVE ON GRADING PLAN FOR PLACEMENT
PROPOSED STREAM INVERT
EX. STREAM INVERT
IN-STREAM HABITAT LOG
1.8% 1.5% 1.5% 1.5% 1.5% 1.5% 1.6%

STA 22+10.00 INV = 287.60 (R)
STA 22+11.90 INV = 285.82 (P)
STA 22+39.00 INV = 285.30 (P)
STA 22+46.00 INV = 287.06 (R)
STA 22+51.74 INV = 286.85 (W)
STA 22+53.62 INV = 284.84 (P)
STA 22+64.87 INV = 284.22 (P)
STA 22+69.74 INV = 285.85 (W)
STA 22+71.99 INV = 283.85 (P)
STA 22+85.49 INV = 283.27 (P)
STA 22+87.74 INV = 284.95 (W)
STA 23+11 SANITARY SEWER CROSSING
STA 23+51.74 INV = 284.06 (W)
STA 23+53.62 INV = 282.07 (P)
STA 23+64.87 INV = 281.57 (P)
STA 23+69.74 INV = 283.26 (W)
STA 23+71.24 INV = 281.31 (P)
STA 23+80.24 INV = 281.01 (P)
STA 23+81.74 INV = 282.76 (W)
STA 24+14 SANITARY SEWER CROSSING
STA 24+61.74 INV = 281.62 (LOG)
STA 24+81.74 INV = 281.32 (LOG)
STA 25+36.44 INV = 280.50 (R)
STA 25+38.34 INV = 279.09 (P)
STA 25+63.44 INV = 278.88 (P)
STA 25+73.44 INV = 280.20 (R)
STA 25+91.74 INV = 279.95 (W)
STA 25+93.99 INV = 277.99 (P)
STA 26+07.49 INV = 277.60 (P)
STA 26+12.74 INV = 279.35 (W)
STA 26+14.24 INV = 277.38 (P)
STA 26+23.24 INV = 276.96 (P)
STA 26+27.74 INV = 278.65 (W)
STA 26+29.62 INV = 276.70 (P)
STA 26+40.87 INV = 276.39 (P)
STA 26+42.74 INV = 278.15 (W)
STA 27+11.62 INV = 277.16 (R)
STA 27+13.52 INV = 275.22 (P)
STA 27+21.72 INV = 275.01 (P)
STA 27+26.62 INV = 276.86 (W)
STA 27+28.52 INV = 274.92 (P)
STA 27+42.62 INV = 274.63 (P)
STA 27+50.62 INV = 276.36 (R)
STA 27+81.74 INV = 275.86 (LOG)

LONGITUDINAL PROFILE
SCALE: H: 1"=20' V: 1"= 2'

ELEVATION (FT)
DISTANCE ALONG BASELINE (FT)
22+00 22+50 23+00 23+50 24+00 24+50 25+00 25+50 26+00 26+50 27+00 27+50 28+00
270 272 274 276 278 280 282 284 286 288 290

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Northern Virginia Stream Restoration Bank
Colvin Run - Forest Edge South
Fairfax County, Virginia

Grading Plan and Longitudinal Profile

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COMMONWEALTH OF VIRGINIA
FRANK R. GRAZIANO
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ENGINEER
PROFESSIONAL

REVISIONS

No.	Date	Description	Rev. By	App. By

SCALE: 1" = 20'
DATE: JULY 2010

Horizontal Datum: VCS NAD 83
Vertical Datum: NGVD 29
Boundary and Topo Source: WSSI and Fairfax Digital Data

Design	Draft	Approved
MSM	MSM	FRG

Sheet # 5 of 70

Computer File Name:
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