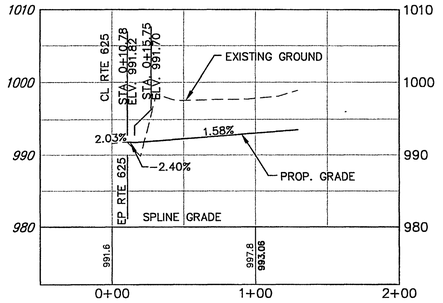
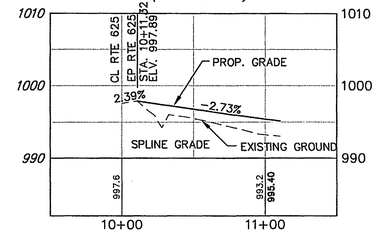
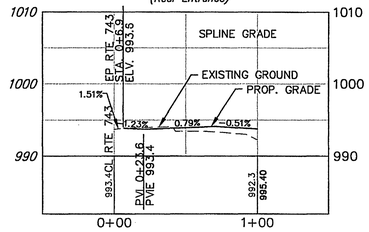
Entrance 1 Profile
(Eastern Entrance)



Entrance 2 Profile
(Western Entrance)



Entrance 3 Profile
(Rear Entrance)

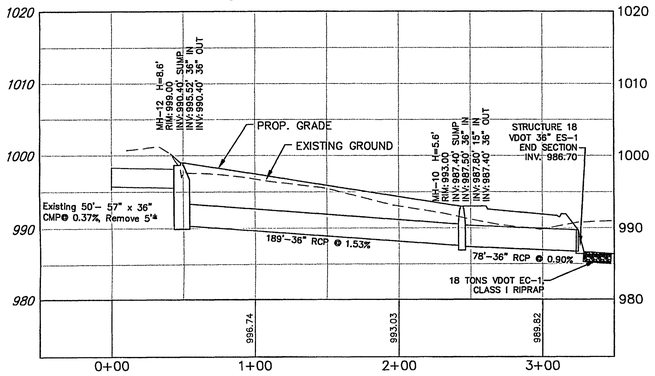


ALL ENTRANCES ARE VDOT MODIFIED CG-11'S

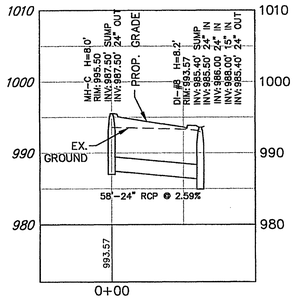
PROFILES

1":=50' HORIZONTAL
1":=10' VERTICAL

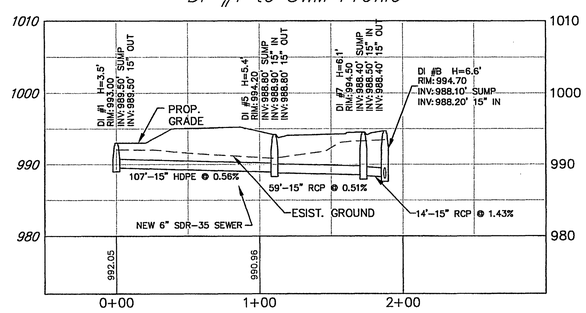
Existing Culvert to Ditch Profile



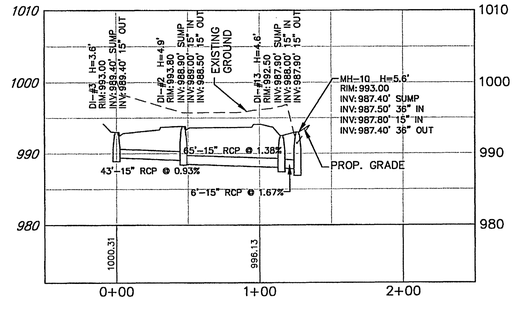
MH-C to DI-#8 Profile



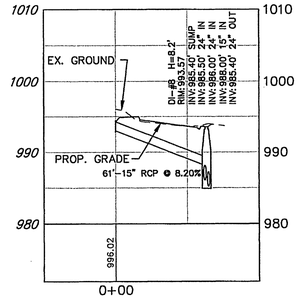
DI-#1 to SWM Profile



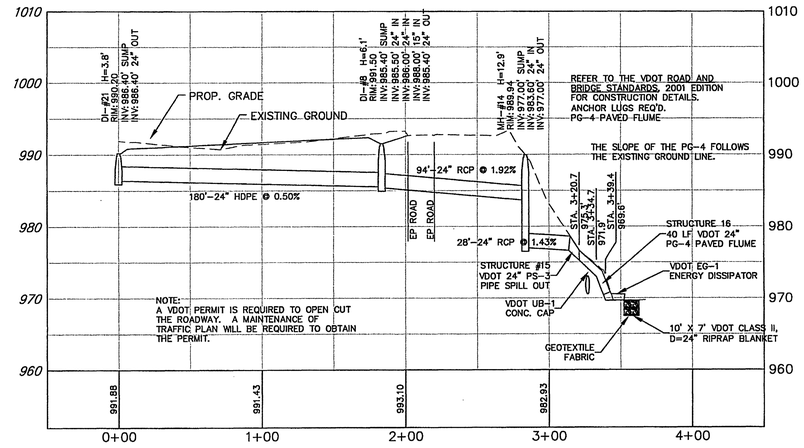
DI-3 to MH-10 Profile



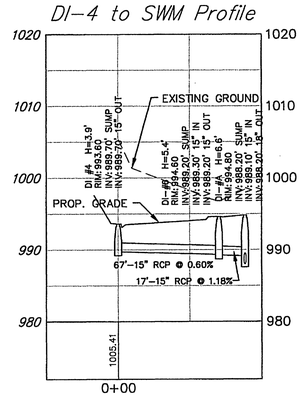
Culvert 17 to DI-8 Profile



DI-#21 to CREEK Profile



DI-4 to SWM Profile



8 VDOT ST'D. DI-7 REQ'D.
GRATE A TYPE III
RIM ELEV. 991.5 INV. 985.4
(72" DIA. BASE REQ'D.)

C—8 58'-24" RCP REQ'D. S=2.59%
INV. IN 987.5 INV. OUT 986.0

14 VDOT ST'D. MH-2 MANHOLE W/
ST'D VDOT FRAME & COVER
RIM ELEV. 989.9 INV. 977.0

8—14 94'-24" RCP REQ'D. S=1.92%
INV. IN 985.4 INV. OUT 983.6

15 VDOT ST'D. 24" PS-3 REQ'D.
INV. 976.6

14—15 28'-24" RCP REQ'D. S=1.43%
INV. IN 977.0 INV. OUT 976.6

16 40 LF VDOT ST'D. PG-4 PAVED FLUME
10' x 7' VDOT CLASS II, D-24" RIPRAP
BLANKET UNDERLAIN W/ GEOTEXTILE
FABRIC

17 62'-15" RCP S=8.20%
INV. IN 993.0 INV. OUT 988.0

21 VDOT ST'D. DI-7 REQ'D.
GRATE A TYPE III
RIM ELEV. 990.2 INV. 986.4

21—6 180'-24" HDPE REQ'D. S=0.50%
INV. IN 986.4 INV. OUT 985.5

20 TRAPEZOIDAL DRAINAGE DITCH REQ'D.
W=1', D=1.5', 3:1 SIDE SLOPES,
VDOT ST'D EC-3, TYPE A LINING REQ'D.
(SEE DETAIL RIGHT) (320 LF)

12 VDOT ST'D. MH-2 MANHOLE W/
ST'D VDOT FRAME & COVER
RIM ELEV. 999.0 INV. 990.4
REMOVE 5' ± OF EXISTING CULVERT

12—10 189'-36" RCP REQ'D. S=1.53%
INV. IN 990.4 INV. OUT 987.5

3 VDOT ST'D. DI-3B, L=8' REQ'D.
RIM ELEV. 993.0 INV. 989.4

1 VDOT ST'D. DI-3B, L=6' REQ'D.
RIM ELEV. 993.0 INV. 989.5'
(CONNECT 6" SDR35 TO INLET)

5 VDOT ST'D. DI-3C, L=6 REQ'D.
RIM ELEV. 994.2 INV 988.8

1—5 107'-15" HDPE REQ'D. S=0.56%
INV. IN 989.5 INV. OUT 988.9

7 VDOT ST'D. DI-3B, L=6 REQ'D.
RIM ELEV. 994.5 INV.988.4'
(CONNECT 6" SDR35 TO INLET)

5—7 59'-15" RCP REQ'D. S=0.51%
INV. IN 988.8 INV. OUT 988.5

9 ACCESS HOLE-OUTLET STRUCTURE W/
WEIR WALL-TOP ELEV. 990.60
RIM ELEV. 994.7 INV. 988.1
(SEE SHEET SP-8 FOR DETAILS)

7—8 14'-15" RCP REQ'D. S=1.43%
INV. IN 988.4 INV. OUT 988.2

C VDOT ST'D. MH-2 MANHOLE W/
ST'D VDOT FRAME & COVER
RIM ELEV. 995.5 INV. 987.5'
WEIR WALL W/3.7"ø ORIFICE
ORIFICE INV. 987.6
(SEE SHEET SP-8 FOR DETAILS)

2 VDOT ST'D. DI-3C, L=6' REQ'D.
RIM ELEV. 993.8 INV. 988.9

3—2 43'-15" RCP REQ'D S=0.93%.
INV. IN 989.4 INV. OUT 989.0

13 VDOT ST'D. DI-7 REQ'D.
GRATE A TYPE III
RIM ELEV. 992.5. INV. 987.9

2—13 65'-15" RCP REQ'D S=1.39%.
INV. IN 988.9 INV. OUT 988.0

10 VDOT ST'D. MH-2 MANHOLE W/
ST'D VDOT FRAME & COVER
RIM ELEV. 993.0 INV. 987.4

13—10 6'-15" RCP REQ'D. S=1.67%
INV. IN 987.9 INV. OUT 987.8

18 VDOT ST'D. 36" ES-1 ENDSECTION
INV. 986.7
18 TONS VDOT EC-1, CLASS I
EROSION CONTROL STONE

10—18 78'-36" RCP REQ'D.
INV. IN 987.4 INV. OUT 986.7
(LENGTH INCLUDES VDOT ST'D ES-1)

19 350 LF TRAPEZOIDAL DRAIN. DITCH REQ'D.
W=3', D=2.0', 3:1 SIDE SLOPES,
12 TONS DRY RIPRAP CL. II, D=24" REQ'D.
VDOT ST'D EC-3 TYPE A LINING REQ'D.
(SEE DETAIL RIGHT)

4 VDOT ST'D. DI-3C, L=6' REQ'D.
RIM ELEV 993.6 INV. 989.7

6 VDOT ST'D. DI-3C, L=6' REQ'D.
RIM ELEV. 994.6 INV. 989.2
(CONNECT 6" SDR35 TO INLET)

4—9 67'-15" RCP REQ'D. S=0.60%
INV. IN 989.7 INV. OUT 989.3

A ACCESS HOLE
RIM ELEV. 994.8 INV. 988.2

6—A 17'-15" RCP REQ'D. S=1.18%
INV. IN 989.2 INV. OUT 989.0

HDPE PIPE IS ADS N-12 OR EQUIVALENT

VDOT ST'D ST-1 STEPS REQUIRED IN ALL STRUCTURES DEEPER THAN 4.0'

VDOT ST'D IS-1 INLET SHAPING REQUIRED FOR ALL STRUCTURES

ALL STRUCTURES AND THE BASES MUST BE OF ADEQUATE DIAMETER AND SIZE TO MEET CURRENT VDOT LOADING REQUIREMENTS

x 995.8 PROPOSED SPOT ELEVATION

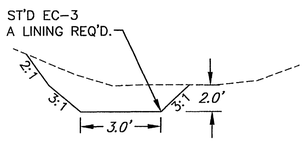
G.T.D. GRADE TO DRAIN

TC 993.50 / EP 993.00 TOP OF CURB/EDGE OF PAVEMENT

TC 993.50 / FC 993.00 TOP OF CURB/FACE OF CURB

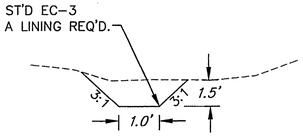
CO ● DOWN SPOUT CLEANOUT

VDOT ST'D EC-3
TYPE A LINING REQ'D.



19 TRAPEZOIDAL DRAINAGE DITCH
3:1 BELOW TOP OF DITCH
2:1 ABOVE TOP OF DITCH

VDOT ST'D EC-3
TYPE A LINING REQ'D.



20 TRAPEZOIDAL DRAINAGE DITCH

APPROVED

DATE: APR. 4, 2008

REVISIONS
1 ____
2 ____
3 ____
4 ____
5 ____
6 ____

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COMMISSION No.
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SHEET
SP-9
No. 9 OF 11

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