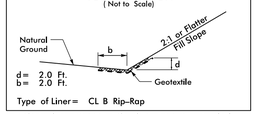
PROJECT REFERENCE NO.	SHEET NO.
B-4659	EC-5/CONST.4
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

DETAIL 1
TOE PROTECTION
(Not to Scale)

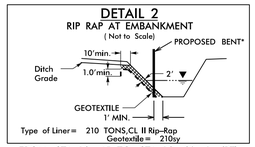


d= 2.0 Ft.
b= 2.0 Ft.

Type of Liner= CL B Rip-Rap

FROM STA. 12+05 TO STA. 14+40 –L– (LT)
FROM STA. 18+50 TO STA. 19+75 –L– (LT)

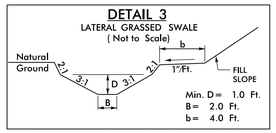
DETAIL 2
RIP RAP AT EMBANKMENT
(Not to Scale)



Type of Liner= 210 TONS,CL II Rip-Rap
Geotextile= 210sy

FROM STA. 16+45 TO STA. 16+60 –L– (RT)
FROM STA. 15+65 TO 15+95 –L– (LT & RT)*
FROM STA. 16+25 TO 16+50 –L– (LT & RT)*

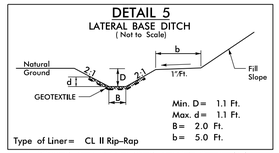
DETAIL 3
LATERAL GRASSED SWALE
(Not to Scale)



Min. D= 1.0 Ft.
B= 2.0 Ft.
b= 4.0 Ft.

FROM STA. 16+55 TO STA. 18+15.3 –L– (RT)

DETAIL 5
LATERAL BASE DITCH
(Not to Scale)

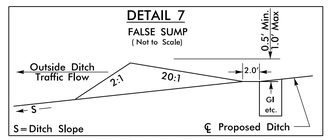


Min. D= 1.1 Ft.
Max. d= 1.1 Ft.
B= 2.0 Ft.
b= 5.0 Ft.

Type of Liner= CL II Rip-Rap

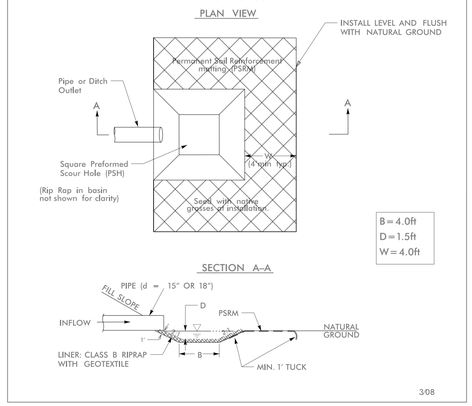
FROM STA. 17+20 TO STA. 18+50 –L– (LT)

DETAIL 7
FALSE SUMP
(Not to Scale)

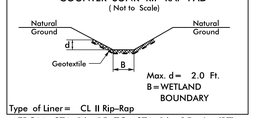


FROM STA. 19+64 TO STA. 19+90 –L– LT

DETAIL 8
PREFORMED SCOUR HOLE
*NOT TO SCALE



DETAIL 6
COUNTER SUNK RIP RAP PAD
(Not to Scale)

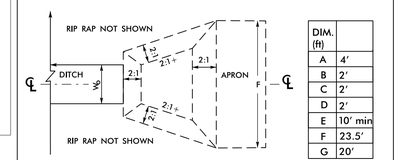


Max. d= 2.0 Ft.
B=WETLAND BOUNDARY

Type of Liner= CL II Rip-Rap

FROM STA. 16+15 TO STA. 16+25 –L– (RT)

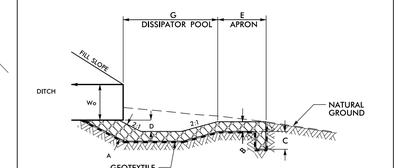
DETAIL 4
CLASS II RIP-RAPPED ENERGY DISSIPATOR BASIN



DIM. (ft)	
A	4'
B	2'
C	2'
D	2'
E	10' min
F	23.5'
G	20'

ALL DIMENSIONS APPROXIMATE

PLAN



℄ SECTION

STA. 14+50 –L– (RT)

BEGIN TIP PROJECT B–4659
–L– POT STA. 10+25.00

32 x 16 x 3
1.5 inch Skimmer
with 0.5 inch
Orifice Diameter
4 ft. weir
ID 4.1

70 x 20 x 3
1.5 inch Skimmer
with 1.0 inch
Orifice Diameter
11 ft. weir
ID 4.2

59 x 15 x 3
1.5 inch Skimmer
with 0.75 inch
Orifice Diameter
7 ft. weir
ID 4.3

NAD 83/95

TOWN OF HOLLY SPRINGS
DB 8447 PG 2041
BM 1999 PG 1962

TOWN OF HOLLY SPRINGS
DB 7197 PG 260
BM 1992 PG 1037

TOWN OF HOLLY SPRINGS
DB 8447 PG 2050
BM 1999 PG 1962-4

TRAVIS M. AND WIFE LORI A. KNUTSON
DB 15661 PG 2484
BM 2000 PG 1240

SANDRA BLANKS SIMPSON
DB 13325 PG 1972
DB 14639 PG 2427

TOE PROTECTION
SEE DETAIL 1
CL B RIP RAP
EST. 135 TONS
GEOTEXTILE
EST. 363 SY

RIP RAP ENERGY DISSIPATOR BASIN
SEE DETAIL 4

LATERAL BASE DITCH
SEE DETAIL 5
CL II RIP RAP
EST. 162 TONS
GEOTEXTILE
EST. 243 SY
EST. DDE 63 CY

CL B RIP RAP
EST. 3 TONS
GEOTEXTILE
EST. 10 SY

TOE PROTECTION
SEE DETAIL 1
CL B RIP RAP
EST. 72 TONS
GEOTEXTILE
EST. 193 SY

PAVE TO FACE OF GUARDRAIL

TRANSITION SIDEWALK W/ GUARDRAIL

CLASS II RIP RAP
TO ELEV 314.4'
(STRUCTURE PAY ITEM)

FS
SEE DETAIL 7

DO NOT DISTURB FENCE

FROM STA. 16+80 TO STA. 17+20
EST. 67 TONS CLASS II RIP RAP
EST. 86 SY GEOTEXTILE

RIP RAP AT EMBANKMENT
SEE DETAIL 2

CLASS II RIP RAP
TO SHLD PT
FILL SLOPE 1.5:1
(STRUCTURE PAY ITEM)
20' TOWN OF HOLLY SPRINGS GREENWAY EASEMENT
DB 14639 PG 2427
(STILL IN LITIGATION)

CLASS II RIP RAP
TO ELEV 314.4'
(STRUCTURE PAY ITEM)

CL B RIP RAP
EST. 1 TON
GEOTEXTILE
EST. 5 SY

RIP RAP AT EMBANKMENT
SEE DETAIL 2
EST. 11 TONS CL II RIP RAP
EST. 11 SY GEOTEXTILE

COUNTER SUNK
RIP RAP PAD
SEE DETAIL 6
EST. 19 TONS CL II RIP RAP
EST. 19 SY GEOTEXTILE

LATERAL GRASSED SWALE
SEE DETAIL 3
EST. DDE 137 CY

CL B RIP RAP
EST. 2 TONS
GEOTEXTILE
EST. 7 SY

CL B RIP RAP
EST. 3 TONS
GEOTEXTILE
EST. 11 SY

PC Sta. 12+57.40

PT Sta. 21+06.45

POT Sta. 10+00.00

POT Sta. 24+48.84

TRANSITION PROP. SIDEWALK TO EXISTING

GREENWAY TRAIL APPROXIMATE LOCATION

RIP-RAP SPILLWAY (WIDTH VARIES)

RECLAIMED WATERLINE MARKER

CONC SPILLWAY

S.S. MANHOLE

BASAL CREEK

OLDE MILLS BLUFF DR.

BASS LAKE RD SR 1293

S 13°51' 30.8" E
BST (WIDTH VARIES)

–L–
PI Sta 17+09.41
△ = 48° 38' 50.3" (RT)
D = 5° 43' 46.5"
L = 849.06'
T = 452.01'
R = 1,000.00'
SE = 0.04
R0 = 84'
Ⓐ S 62° 30' 21.1" E

END TIP PROJECT B–4659
–L– POT STA. 22+50.00

S 44°29'13" E
190.23'
S 44°29'13" E
190.02'
S 65°01'01" E
176.59'
TOWN OF HOLLY SPRINGS CORPORATE LIMITS
DB 14639 PG 2427
BM 2007 PG 293
BM 2007 PG 293
TOWN OF HOLLY SPR EASEMENTS
DB 14639 PG 242
(STILL IN LITIGATIO

NOTE:
UTILIZE TEMPORARY SEDIMENT BASIN OR SPECIAL STILLING BASIN(S) AS STILLING BASIN WHERE APPLICABLE.

Place Matting for Erosion Control on Slopes Adjacent to Permitted Wetlands as Work Allows.

8/17/99

03-DEC-2014 13:55
R:\Environmental\Drainage\B4659_EC_psh4.dgn
mlong at TEAM\2260405