PROJECT REFERENCE NO.	SHEET NO.
C-5621	EC-9/CONST.6

RS&H
8521 SIX FORKS ROAD, SUITE 400
RALEIGH, NC 27615
NC FIRM LICENSE No: F-0493

8/17/99

REVISIONS

NAD 83/NA 2011

MATCH TO SHEET 4 –Y1A– STA. 14+50

INSTALL 175 SY. MATTING IN PROPOSED DITCH LINE.

–Y1A– STA. 14+00 to –Y1A– STA. 14+97 RT

INSTALL 190 SY. MATTING IN PROPOSED DITCH LINE.

–Y1A– STA. 15+50 to –Y1A– STA. 16+34 RT

INSTALL 595 SY. MATTING IN PROPOSED DITCH LINE.

–Y1A– STA. 10+50 to –Y1A– STA. 16+42 LT

INSTALL 140 SY. MATTING IN PROPOSED DITCH LINE.

–R1A– STA. 10+62 to –R1A– STA. 11+62 LT

INSTALL 120 SY. MATTING IN PROPOSED DITCH LINE.

–R1A– STA. 11+27 to –R1A– STA. 11+30 LT

INSTALL 265 SY. MATTING IN PROPOSED DITCH LINE.

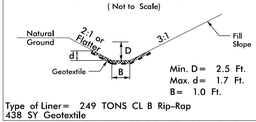
–Y1B– STA. 11+21 to –Y1A– STA. 12+70 LT

INSTALL 210 SY. MATTING IN PROPOSED DITCH LINE.

–Y1B– STA. 15+00 to –Y1A– STA. 16+29 LT

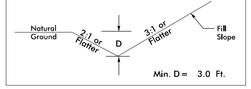
LEGEND
1. RETAIN
2. PLUG & FILL
3. REMOVE

DETAIL A
SPECIAL LATERAL BASE DITCH
(Not to Scale)



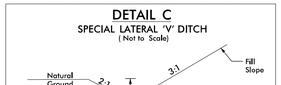
Min. D= 2.5 Ft.
Max. d= 1.7 Ft.
B= 1.0 Ft.
Type of Liner= 249 TONS CL B Rip-Rap
438 SY Geotextile
FROM –Y1A– STA. 10+50 TO STA. 16+42 LT

DETAIL B
SPECIAL LATERAL 'V' DITCH
(Not to Scale)



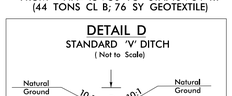
Min. D= 3.0 Ft.
FROM –R1A– STA. 10+62 TO STA. 11+00 LT
FROM –Y1B– STA. 11+21 TO STA. 12+70 LT
FROM –Y1B– STA. 15+00 TO STA. 16+29 LT
FROM –Y1A– STA. 12+00 TO STA. 12+56 RT
FROM –Y1A– STA. 14+00 TO STA. 14+97 RT

DETAIL C
SPECIAL LATERAL 'V' DITCH
(Not to Scale)



Type of Liner= CL B Rip-Rap
Min. D= 2.5 Ft.
Max. d= 2.1 Ft.
FROM –R1A– STA. 11+00 TO STA. 11+62 LT
(104 TONS CL B; 184 SY GEOTEXTILE)
FROM –Y1A– 15+50 TO STA. 16+34 RT
(44 TONS CL B; 76 SY GEOTEXTILE)

DETAIL D
STANDARD 'V' DITCH
(Not to Scale)



Min. D= 1 Ft.
–R1A– STA. 11+27 TO 11+30 LT

PROPOSED PIPE 0630 TO 0631 OUTFALLS TO A LARGE, WELL VEGETATED DITCH. THIS DITCH CONVEYS THE RUNOFF TO THE RETENTION POND LOCATED BEHIND THE NORTH MECKLENBURG ANIMAL HOSPITAL.

SPECIAL LATERAL V DITCH SEE DETAIL B
SPECIAL LATERAL V DITCH SEE DETAIL C
SPECIAL LATERAL BASE DITCH SEE DETAIL A
SPECIAL LATERAL V DITCH SEE DETAIL B
STANDARD V DITCH SEE DETAIL D
SPECIAL LATERAL V DITCH SEE DETAIL C
SPECIAL LATERAL V DITCH SEE DETAIL B

S 60° 58' 00.8" E
–Y4– PT Sta. 12+16.02
–Y4– STA. 12+07.41=
–RAI– Sta. 13+22.31

END CONSTRUCTION
–Y4– STA. 11+77.03 =
–RAI– Sta. 13+18.45
–Y4– PC Sta. 11+44.18

S 12° 43' 38.3" E

–Y4– POT Sta. 10+00.00

BEGIN CONSTRUCTION
–Y4– STA. 10+80.00

–Y1B– PC Sta. 10+51.18

–Y1B– STA. 10+59.52=
–RAI– Sta. 12+01.76

BEGIN CONSTRUCTION ①
–Y1B– STA. 10+74.58 =
–RAI– Sta. 12+00.60

–Y1B– PRC Sta. 13+93.67

END GRADE
BEGIN OVERLAY
–Y1B– STA. 16+20.00

–Y1B– PT Sta. 16+11.00

S 17° 12' 22.9" W

MATCH TO INSET –Y1A– STA. 16+40

–Y1A– STA. 17+97.36=
–RAI– Sta. 10+13.20

END CONSTRUCTION
–Y1A– STA. 17+98.26 =
–RAI– Sta. 10+11.69

MATCH TO –Y1A– STA. 16+40

END C&G –Y1B– +50.12 (41.71' RT)

END OVERLAY
–Y1B– Sta. 16+74.24

END CONSTRUCTION
–Y1B– Sta. 18+22.00

S 17° 12' 22.9" W

INSET

–RAI– CENTER OF CIRCLE
–Y1A– STA. 18+56.89 (O/S 7.5' RT.)
–Y1B– STA. 10+00.00 (O/S 7.5' LT.)
–Y4– STA. 12+66.96 (O/S 7.5' RT.)

–Y1B– CURVE DATA

PI Sta 12+28.57	PI Sta 15+03.87
Δ = 36° 48' 58.0" (RT)	Δ = 23° 21' 47.5" (LT)
D = 10° 44' 58.8"	D = 10° 44' 58.8"
L = 342.49'	L = 217.34'
T = 177.39'	T = 110.20'
R = 533.00'	R = 533.00'
SE = 04	SE = 04
RO = 84'	RO = 84'

–Y4– CURVE DATA

PI Sta 11+80.23
Δ = 11° 45' 37.5" (RT)
D = 16° 22' 12.8"
L = 71.84'
T = 36.05'
R = 350.00'
SE = NC

–RAI– CURVE DATA

PI Sta 10+00.06
Δ = 359° 52' 52.0" (LT)
D = 95° 29' 34.7"
L = 376.87'
T = 0.06'
R = 60.00'

NOTE: UTILIZE FABRIC INSERT INLET PROTECTION DEVICES IN LIEU OF ROCK INLET SEDIMENT TRAPS, TYPE-C AS DIRECTED TO AVOID IMPOUNDMENT OF RUNOFF IN ROADWAY OPEN TO TRAFFIC.

NOTES: ANY DEVIATION FROM OPTIONS GIVEN WILL REQUIRE PRIOR APPROVAL BY ENGINEER.

ADDITIONAL EROSION CONTROL DEVICES MAY NEED TO BE INSTALLED AS DIRECTED BY THE ENGINEER.

** SEE INSET FOR PROPOSED DRAINAGE PLANS BEYOND ROADWAY PROJECT LIMITS

DIXON MOTOR COMPANY DB 3778 PG 989 DB 4089 PG 528
EST 5 TON CL B RIP RAP
EST 14 SY GEOTEXTILE
GRADE TO DRAIN
CONV. DI TO NP
JB w/mH
LAKE NORMAN HOTEL, INC. DB 19204 PG 595
DB 30852 PG 24 PB 230 PG 292
CRYSTAL D. FORNEY
TOWN OF CORNELIUS DB 25693 PG 803 DB 25693 PG 805
JAMES J. CALDWELL DB 1765 PG 473 DB 2961 PG 519
TRICIA O. WATTS, ET AL DB 17229 PG 124
TOWN OF CORNELIUS DB 29562 PG 650
PEGGY RIVENS DB 8129 PG 791
ROBERT SHERILL DB 5132 PG 170
MARIAN L. BROOKS DB 4673 PG 419 PB 230 PG 292
WILLIAM F. HUNTER DB 29408 PG 943
LIANA SPRINGS DB 14445 PG 685 PB 230 PG 292
RICHARD GRAHAM DB 20824 PG 353
ANNIE SLOAN DB 794 PG 481 PB 230 PG 292
DALLAS L. CORNELIUS DB 3203 PG 221 PB 230 PG 292
MARY SLOAN DB 3372 PG 556 PB 230 PG 292
JERRY M. LITTLE DB 6416 PG 551 PB 230 PG 292
ED SLOAN DB 16[illegible] PG 1[illegible] ET AL DB 31314 PG 472 PB 230 PG 292
KUNKLEMAN ASSOC. LIMITED PARTNERSHIP DB 12309 PG 956 PB 230 PG 292
GREYRON, LLC DB 25824 PG 641 PB 230 PG 292
ERIC L. FORNEY, ET AL DB 5022 PG 385 PB 230 PG 292
WILLIE HAYWOOD GASTON DB 5223 PG 981 PB 230 PG 292
ARMETTA M. CATHCART DB 33059 PG 397 PB 230 PG 292
CRYSTAL LAKES, LLC DB 29161 PG 286

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