PROJECT REFERENCE NO.	SHEET NO.
R-3825B	EC-31/CONST.11
R/W SHEET NO.	

Prepared in the Office of: AECOM — NC FIRM LICENSE No: F-0342, 701 Corporate Center Drive, Suite 475, Raleigh, NC 27607, (919) 854-6200 - (919) 854-6259(FAX)

NAD 83/2011

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PLANS

REVISIONS

DETAIL 38
SPECIAL LATERAL 'V' DITCH
(Not to Scale)

Natural Ground, 3:1, D, d, 4:1 or Flatter, Fill Slope, Geotextile
Min. D= 1.0 Ft.
Max. d= 1.0 Ft.
Type of Liner= Class B Rip-Rap

FROM –L– STA. 100+00 LT TO –L– STA. 102+40 LT
EST. 51 TONS CLASS B RIP RAP
EST. 115 SY GEOTEXTILE

DETAIL 42
LATERAL BASE DITCH
(Not to Scale)

Natural Ground, 3:1, D, d, B, b, 1':Ft., Fill Slope, GEOTEXTILE
Min. D= 1.0 Ft.
Max. d= 1.0 Ft.
B= 2.0 Ft.
b= 5.0 Ft.
*When B is < 6.0'
EST. DDE= 27 CY
Type of Liner= Class I Rip-Rap

FROM –L– STA. 106+00 LT TO –L– STA. 106+25 LT
EST. 12 TONS CLASS I RIP RAP
EST. 32 SY GEOTEXTILE

DETAIL 43
LATERAL 'V' DITCH
(Not to Scale)

Natural Ground, 3:1, D, 3:1, b, 1':Ft., Fill Slope
Min. D= 1.5 Ft.
b= 5.0 Ft.
EST. DDE=478 CY

FROM –L– STA. 106+28 LT TO –L– STA. 108+50 LT

DETAIL 44
SPECIAL CUT DITCH
(Not to Scale)

Natural Ground, 3:1, D, 6:1, Front Ditch Slope
Min. D= 1.0 Ft.

FROM –L– STA. 108+50 LT TO –L– STA. 110+00 LT

DETAIL 45
BERM DITCH
(Not to Scale)

SLOPE STAKE, CLEARING LIMITS, 5.0', 9.0', 5.0', 6.0', 10.0' V.C., 3:1, D, 3:1 MAX.
Min. D= 1.0 Ft.

FROM –L– STA. 103+50 RT TO –L– STA. 104+20 RT

FOR ADDITIONAL DRAINAGE DITCH DETAILS SEE ROADWAY PLAN SHEET 11

Place Matting for Erosion Control on all Cut and Fill Slopes as Work Allows.
–L– Sta. 101+00 to Sta. 114+00 RT & LT
–Y10A– Sta. 11+10 to Sta. 12+50 RT & LT

DETAIL 46
BERM DITCH
(Not to Scale)

SLOPE STAKE, CLEARING LIMITS, 5.0', 9.0', 5.0', 6', 10.0' V.C., 3:1, D, 3:1 MAX., d, Geotextile
Min. D=1.0 Ft.
Max. d=1.0 Ft.
Type of Liner= CL B Rip Rap

FROM –L– STA. 104+20 RT TO –L– STA. 104+50 RT
EST. 10 TONS CLASS B RIP RAP
EST. 30 SY GEOTEXTILE
FROM –L– STA. 105+50 RT TO –L– STA. 106+00 RT

INSTALL INLET PROTECTION IN ACCORDANCE WITH ENGINEER'S RECOMMENDATIONS

DETAIL 48
SPECIAL CUT V-DITCH
(Not to Scale)

Natural Ground, 3:1, D, 6:1, Front Ditch Slope
Min. D= 1.5 Ft.

FROM –L– STA. 111+50 LT TO –L– STA. 113+50 LT

DETAIL 49
BERM BASE DITCH
(NOT TO SCALE)

Natural Ground, 3:1, D, 3:1, b, B, RDWY, 2:1
Min. D= 1.0 Ft.
B= 2.0 Ft.
b= 5.0 Ft.

FROM –L– STA. 110+00 LT TO –L– STA. 114+00 LT

DETAIL 50
BERM 'V' DITCH
(Not to Scale)

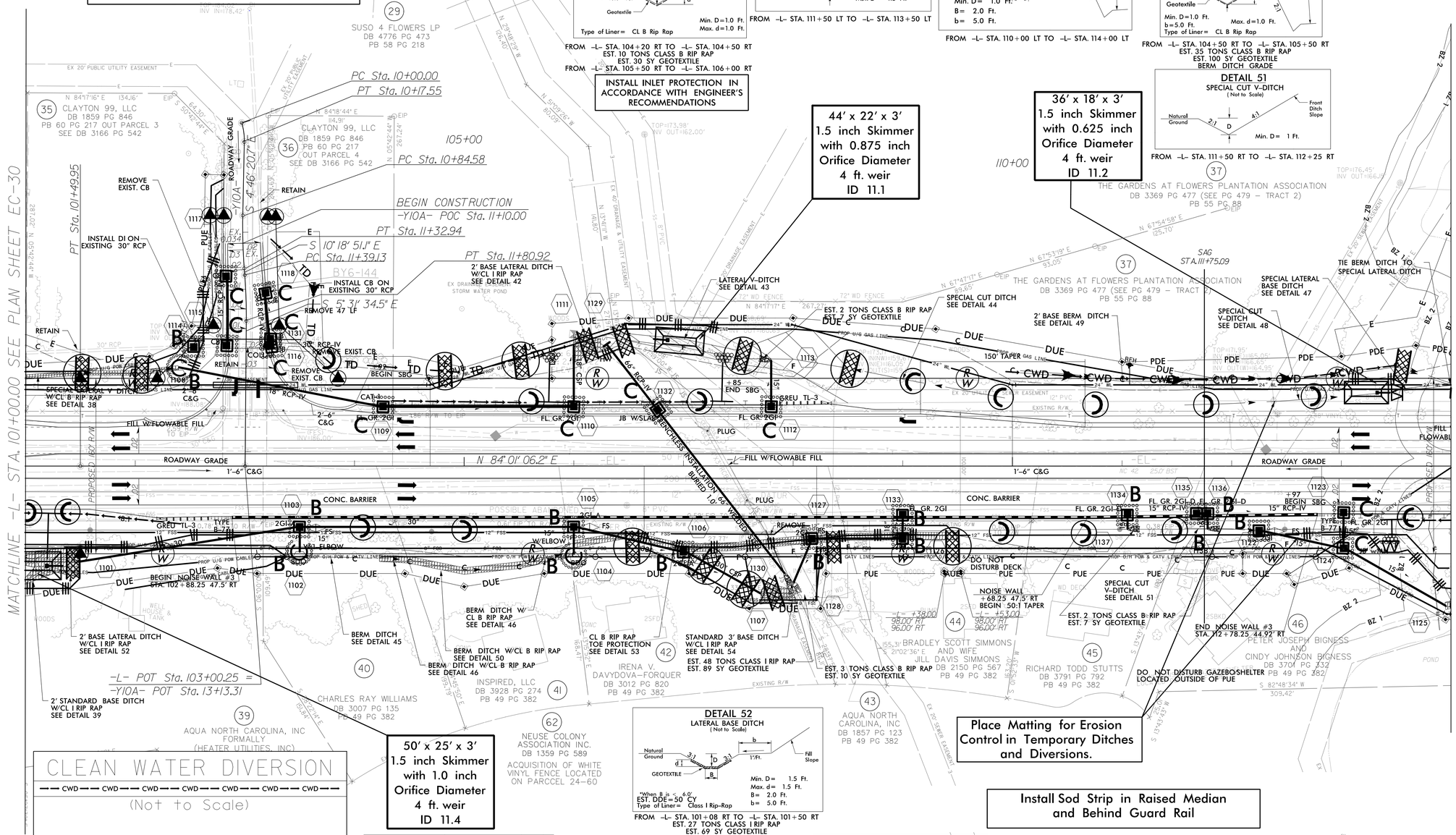
Natural Ground, 3:1, D, 3:1, b, d, RDWY, 2:1, Geotextile
Min. D=1.0 Ft.
b=5.0 Ft.
Max. d=1.0 Ft.
Type of Liner= CL B Rip Rap

FROM –L– STA. 104+50 RT TO –L– STA. 105+50 RT
EST. 35 TONS CLASS B RIP RAP
EST. 100 SY GEOTEXTILE
BERM DITCH GRADE

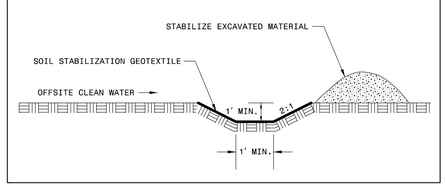
DETAIL 51
SPECIAL CUT V-DITCH
(Not to Scale)

Natural Ground, 2:1, D, 4:1, Front Ditch Slope
Min. D= 1 Ft.

FROM –L– STA. 111+50 RT TO –L– STA. 112+25 RT



CLEAN WATER DIVERSION
(Not to Scale)



DETAIL 52
LATERAL BASE DITCH
(Not to Scale)

Natural Ground, 3:1, D, d, 3:1, b, 1':Ft., Fill Slope, GEOTEXTILE, B
Min. D= 1.5 Ft.
Max. d= 1.5 Ft.
B= 2.0 Ft.
b= 5.0 Ft.
*When B is < 6.0'
EST. DDE= 50 CY
Type of Liner= Class I Rip-Rap

FROM –L– STA. 101+08 RT TO –L– STA. 101+50 RT
EST. 27 TONS CLASS I RIP RAP
EST. 69 SY GEOTEXTILE

Place Matting for Erosion Control in Temporary Ditches and Diversions.

Install Sod Strip in Raised Median and Behind Guard Rail

DETAIL 41
LATERAL BASE DITCH
(Not to Scale)

Natural Ground, 3:1, D, d, 3:1, b, 1':Ft., Fill Slope, GEOTEXTILE, B
Min. D=1.0 Ft.
Max. d=1.0 Ft.
B=2.0 Ft.
b=5.0 Ft.
*When B is < 6.0'
EST. DDE= 140 CY
Type of Liner= CL B Rip-Rap

FROM –L– STA. 98+70 RT TO –L– STA. 101+08 RT

DETAIL 55
FALSE SUMP
(Not to Scale)

0.5' Min. 1.0' Max, Outside Ditch Traffic Flow, 10:1, 20:1, 2.0', GI etc., S, S=Ditch Slope, ℄ Proposed Ditch

STA. –L– 103+74 RT
STA. –L– 106+24 RT
STA. –L– 112+48 RT
STA. –L– 107+24 RT

DETAIL 53
TOE PROTECTION
(Not to Scale)

NATURAL GROUND, d, 3:1 OR FLATTER, FILL SLOPE, GEOTEXTILE
d= 1.0 Ft.
Type of Liner= Class B Rip-Rap

FROM –L– STA. 106+00 RT TO –L– STA. 109+50 RT
EST. 125 TONS CLASS B RIP RAP
EST. 295 SY GEOTEXTILE

DETAIL 54
STANDARD BASE DITCH
(Not to Scale)

Natural Ground, 3:1, D, 3:1, Natural Ground, d, Geotextile, B
Min. D= 1.5 Ft.
Max. d= 1.5 Ft.
B= 3.0 Ft.
*When B is < 6.0'
Type of Liner= Class I Rip –Rap
Est. 25 Tons Class I Rip Rap
Est. 45 SY Geotextile. Est. DDE 20 CY

FROM –L– STA. 107+70 RT TO –L– STA. 108+00 RT

FOR –L– PROFILE SEE SHEET 27
FOR –Y10A – PROFILE SEE SHEET 35

DATE/TIME: 9:33:42 AM
DGN: R:\Erosion Control\R3825b_rev_EC_psn31.dgn