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PROJECT REFERENCE NO.	SHEET NO.
R-3830	EC-31/CONST.06
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

TGS ENGINEERS
804-C N. LAFAYETTE ST
SHELBY, NC 28150
PH (704) 476-0003
CORP. LICENSE NO.: C-0275

NAD 83 /NSRS 2007

-L-
PI Sta 42+84.18
Δ = 3° 08' 15.6" (RT)
D = 0° 42' 58.3"
L = 438.10'
T = 219.11'
R = 8,000.00'
SE = NC

PI Sta 49+69.18
Δ = 3° 08' 15.6" (LT)
D = 0° 42' 58.3"
L = 438.10'
T = 219.11'
R = 8,000.00'
SE = NC

-Y4-
PI Sta 18+43.53
Δ = 21° 44' 18.7" (LT)
D = 6° 09' 39.0"
L = 352.85'
T = 178.57'
R = 930.00'

PI Sta 23+13.81
Δ = 0° 19' 07.1" (RT)
D = 0° 09' 59.9"
L = 191.22'
T = 95.61'
R = 34,384.60'

-Y5-
PI Sta 11+11.37
Δ = 2° 11' 26.8" (LT)
D = 2° 17' 30.6"
L = 95.59'
T = 47.80'
R = 2,500.00'
SE = SEE PLANS

Ⓘ = -Y5- PC Sta. 10+63.57

Place Matting for Erosion Control on Slope as Work Allows. -L- Sta. 43+00 to 48+00 LT

CLASS 'I' RIP-RAP
EST. 7 TONS
GEOTEXTILE
EST. 15 SY

CLASS 'B' RIP-RAP
EST. 8 TONS
GEOTEXTILE
EST. 21 SY

-L- POC Sta. 41+26.08=
-Y5- POT 10+00.00
-L- PC Sta. 40+65.07

-L- PC Sta. 47+50.07
-L- PT Sta. 45+03.17
-L- PT Sta. 51+88.18

-Y5- PT Sta. 11+59.16
-Y5- POT STA 12+90.58=
-Y4- POC STA 23+31.50
-Y4- PT Sta. 24+09.42
-Y4- PT Sta. 20+17.81
-Y4- PC Sta. 22+18.21

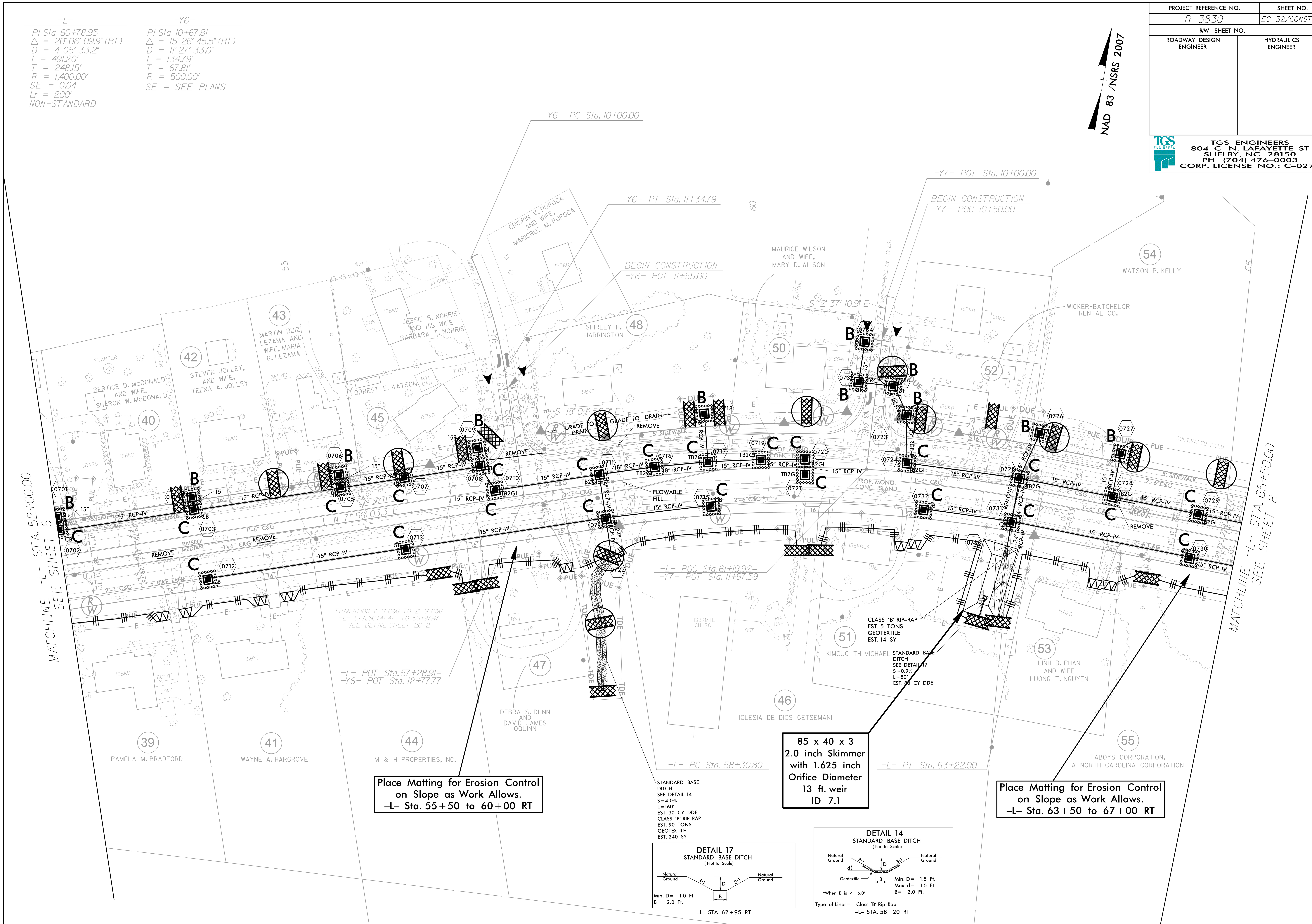
MATCHLINE -L- STA. 38+00.00
SEE SHEET 5

MATCHLINE -L- STA. 52+00.00
SEE SHEET 7

MATCHLINE -Y5- STA. 13+50.00
SEE SHEET 26

23 HARRINGTON COMPANIES, LLC,
28 MAGNETI MARELLI, U.S.A., INC.
33 THANH D. VO, UNMARRIED, AND BACH-YEN T. VO, UNMARRIED
37 SAMUEL BENTON FARRAR AND WIFE, MYRTLE L. FARRAR
24 RICHARD W. NOEL AND WIFE EDIE N. NOEL
26 DWIGHT LEON MINTER AND WIFE, TINA COTTEN MINTER
29 VASK, LLC
22 TYSON FOODS, INC.
27 D. DURAN JOHNSON AND WIFE, SHARON A. JOHNSON
32 KEEPSAFE MINI-STORAGE, LLC
34 BRITNEY A. ELLIS AND HUSBAND, TRAVIS ELLIS
35 M & H PROPERTIES, INC.
36 M & H PROPERTIES, INC.
38 JULIAN C. SUGGS AND HIS WIFE, JUDITH B. SUGGS

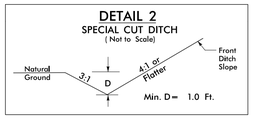
RAIL TO BE REMOVED BY OTHERS
GRADE TO DRAIN
DO NOT DISTURB CANOPY OR SIGN


PROJECT REFERENCE NO. R-3830
SHEET NO. EC-32/CONST.07
R/W SHEET NO.
ROADWAY DESIGN ENGINEER
HYDRAULICS ENGINEER
TGS ENGINEERS
804-C N. LAFAYETTE ST
SHELBY, NC 28150
PH (704) 476-0003
CORP. LICENSE NO.: C-0275
NAD 83 /NSRS 2007
-L-
PI Sta 60+78.95
△ = 20° 06' 09.9" (RT)
D = 4° 05' 33.2"
L = 491.20'
T = 248.15'
R = 1,400.00'
SE = 0.04
Lr = 200'
NON-STANDARD
-Y6-
PI Sta 10+67.81
△ = 15° 26' 45.5" (RT)
D = 11° 27' 33.0"
L = 134.79'
T = 67.81'
R = 500.00'
SE = SEE PLANS
-Y6- PC Sta. 10+00.00
-Y6- PT Sta. 11+34.79
BEGIN CONSTRUCTION
-Y6- POT 11+55.00
-Y7- POT Sta. 10+00.00
BEGIN CONSTRUCTION
-Y7- POC 10+50.00
MATCHLINE -L- STA. 52+00.00 SEE SHEET 6
MATCHLINE -L- STA. 65+50.00 SEE SHEET 8
-L- POT Sta. 57+28.91= -Y6- POT Sta. 12+77.77
-L- POC Sta. 61+19.92= -Y7- POT Sta. 11+97.59
-L- PC Sta. 58+30.80
-L- PT Sta. 63+22.00
TRANSITION 1'-6" C&G TO 2'-9" C&G -L- STA. 56+47.47 TO 56+97.47 SEE DETAIL SHEET 2C-2
N 71° 56' 03.3" E
S 18° 04' 56.7" E
S 2° 37' 10.9" E
BERTICE D. McDONALD AND WIFE, SHARON W. McDONALD
STEVEN JOLLEY, AND WIFE, TEENA A. JOLLEY
MARTIN RUIZ LEZAMA AND WIFE, MARIA G. LEZAMA
FORREST E. WATSON
JESSIE B. NORRIS AND HIS WIFE BARBARA T. NORRIS
CRISPIN V. POPOCA AND WIFE, MARICRUZ M. POPOCA
SHIRLEY H. HARRINGTON
MAURICE WILSON AND WIFE, MARY D. WILSON
WATSON P. KELLY
WICKER-BATCHELOR RENTAL CO.
PAMELA M. BRADFORD
WAYNE A. HARGROVE
M & H PROPERTIES, INC.
DEBRA S. DUNN AND DAVID JAMES OQUINN
IGLESIA DE DIOS GETSEMANI
KIMCUC THI MICHAEL
LINH D. PHAN AND WIFE HUONG T. NGUYEN
TABOYS CORPORATION, A NORTH CAROLINA CORPORATION
Place Matting for Erosion Control on Slope as Work Allows. -L- Sta. 55+50 to 60+00 RT
Place Matting for Erosion Control on Slope as Work Allows. -L- Sta. 63+50 to 67+00 RT
85 x 40 x 3
2.0 inch Skimmer
with 1.625 inch
Orifice Diameter
13 ft. weir
ID 7.1
CLASS 'B' RIP-RAP
EST. 5 TONS
GEOTEXTILE
EST. 14 SY
STANDARD BASE DITCH
SEE DETAIL 17
S=0.9%
L=80'
EST. 80 CY DDE
STANDARD BASE DITCH
SEE DETAIL 14
S=4.0%
L=160'
EST. 30 CY DDE
CLASS 'B' RIP-RAP
EST. 90 TONS
GEOTEXTILE
EST. 240 SY
DETAIL 17
STANDARD BASE DITCH
(Not to Scale)
Natural Ground
Min. D= 1.0 Ft.
B= 2.0 Ft.
-L- STA. 62+95 RT
DETAIL 14
STANDARD BASE DITCH
(Not to Scale)
Natural Ground
Geotextile
Min. D= 1.5 Ft.
Max. d= 1.5 Ft.
B= 2.0 Ft.
*When B is < 6.0'
Type of Liner= Class 'B' Rip-Rap
-L- STA. 58+20 RT

PROJECT REFERENCE NO.	SHEET NO.
R-3830	EC-33/CONST.08
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

TGS ENGINEERS
804-C N. LAFAYETTE ST
SHELBY, NC 28150
PH (704) 476-0003
CORP. LICENSE NO.: C-0275

DETAIL 2
SPECIAL CUT DITCH
(Not to Scale)



FROM -Y8- STA. 10+84 TO STA. 11+50 LT

NAD 83 /NSRS 2007

-L-
PI Sta 71+86.25
△ = 21° 05' 12.3" (RT)
D = 2° 51' 53.2"
L = 736.07'
T = 372.24'
R = 2,000.00'
SE = 0.04
Lr = 200'
NON-STANDARD

-Y8-
PI Sta 11+82.30
△ = 38° 19' 04.6" (LT)
D = 22° 55' 05.9"
L = 167.19'
T = 86.86'
R = 250.00'
SE = SEE PLANS

① = -Y8- PT Sta. 12+62.64

② = -L- POT Sta.76+58.63=
-Y8- POT Sta. 12+87.00=
-DRW2- POT Sta.10+00.00

70 = BELINDA GAIL DICKENS

72 = JOSE SOCORRO PEREZ AND WIFE, MARIA VERONICA RAMIREZ DE PEREZ

Place Matting for Erosion Control on Slope as Work Allows.
-L- Sta. 69+00 to 72+50 LT

58 FRANK A. MEASAMER, JR. AND WIFE, LINDA C. MEASAMER

57 EASTSIDE PENTECOSTAL HOLINESS CHURCH, INC.

56 THOMAS B. KELLY

60 FRANKLIN A. MEASAMER AND WIFE, ANN H. MEASAMER

63 MYRTLE MATTHEWS POE

MARY ANNE KELLY

68

-Y8- POT Sta. 10+00.00
BEGIN CONSTRUCTION
-Y8- POT 10+46.00
KAY K. KELLY

-Y8- PC Sta. 10+95.44

SPECIAL CUT DITCH SEE DETAIL 2

TERRY LEWIS NORRIS

70 72 73

S 10° 36' 01.2" W

MATCHLINE -L- STA. 65+50.00 SEE SHEET 7

MATCHLINE -L- STA. 79+00.00 SEE SHEET 9

Place Matting for Erosion Control on Slope as Work Allows.
-L- Sta. 63+50 to 67+00 RT

Place Matting for Erosion Control on Slope as Work Allows.
-L- Sta. 75+50 to 76+00 RT

55 TABOYS CORPORATION, A NORTH CAROLINA CORPORATION

-L- PC Sta. 68+14.00

59 JANET BROWN WARNER

61 CLARENCE P. ROSSER JESSICA BRIDGES JENNIFER RUBINOSKY

62 CLARENCE P. ROSSER JESSICA BRIDGES JENNIFER RUBINOSKY

64 JANET BROWN WARNER AND PRESTON D. WARNER II

-L- PT Sta. 75+50.07

66 TWG PROPERTIES

END CONSTRUCTION
-DRW2- POT 12+05.00

S 10° 36' 01.2" W
-DRW2-

-DRW2- POT Sta. 12+19.57

BROADWAY ROAD, LLC

69

110 x 50 x 3
2.0 inch Skimmer
with 2.0 inch
Orifice Diameter
21 ft. weir
ID 8.1

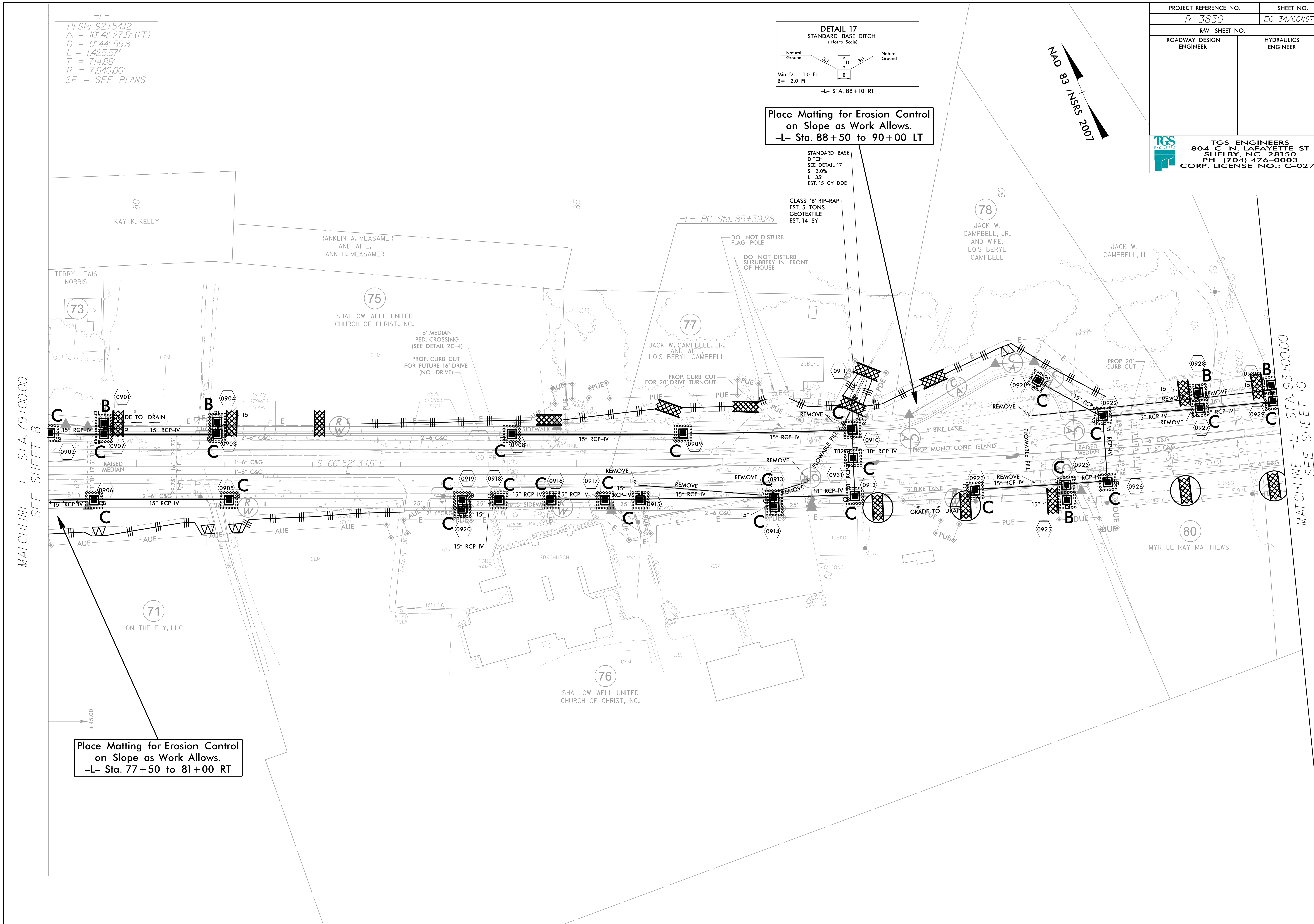
CLASS 'B' RIP-RAP
EST. 5 TONS
GEOTEXTILE
EST. 14 SY

150' TAPER
150' UNIFORM MEDIAN TRANSITION

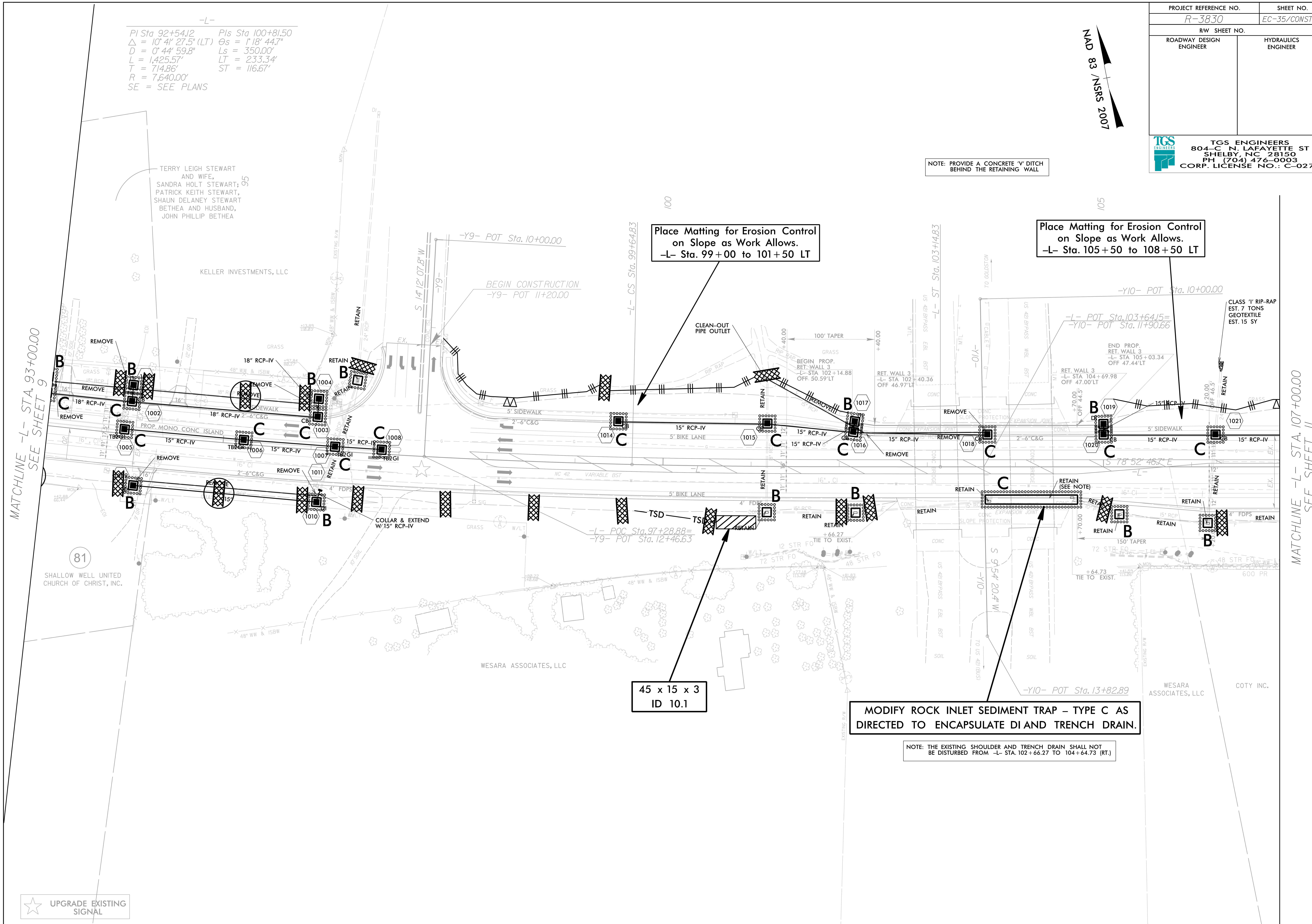
Place Matting for Erosion Control on Slope as Work Allows.
-L- Sta. 77+50 to 81+00 RT

PROJECT REFERENCE NO.	SHEET NO.
R-3830	EC-34/CONST.9
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

TGS ENGINEERS
804-C N. LAFAYETTE ST
SHELBY, NC 28150
PH (704) 476-0003
CORP. LICENSE NO.: C-0275



-L-
PI Sta 92+54.12
Δ = 10° 41' 27.5" (LT)
D = 0° 44' 59.8"
L = 1,425.57'
T = 714.86'
R = 7,640.00'
SE = SEE PLANS
DETAIL 17
STANDARD BASE DITCH
(Not to Scale)
Natural Ground
Min. D = 1.0 Ft.
B = 2.0 Ft.
-L- STA. 88+10 RT
NAD 83 /NSRS 2007
Place Matting for Erosion Control on Slope as Work Allows. -L- Sta. 88+50 to 90+00 LT
STANDARD BASE DITCH
SEE DETAIL 17
S=2.0%
L=35'
EST. 15 CY DDE
CLASS 'B' RIP-RAP
EST. 5 TONS
GEOTEXTILE
EST. 14 SY
-L- PC Sta. 85+39.26
DO NOT DISTURB FLAG POLE
DO NOT DISTURB SHRUBBERY IN FRONT OF HOUSE
KAY K. KELLY
FRANKLIN A. MEASAMER AND WIFE, ANN H. MEASAMER
TERRY LEWIS NORRIS
SHALLOW WELL UNITED CHURCH OF CHRIST, INC.
6' MEDIAN PED. CROSSING (SEE DETAIL 2C-4)
PROP. CURB CUT FOR FUTURE 16' DRIVE (NO DRIVE)
JACK W. CAMPBELL, JR. AND WIFE, LOIS BERYL CAMPBELL
PROP. CURB CUT FOR 20' DRIVE TURNOUT
JACK W. CAMPBELL, JR. AND WIFE, LOIS BERYL CAMPBELL
JACK W. CAMPBELL, III
PROP. 20' CURB CUT
MATCHLINE -L- STA. 79+00.00 SEE SHEET 8
MATCHLINE -L- STA. 93+00.00 SEE SHEET 10
S 66° 52' 34.6" E
5' BIKE LANE
PROP. MONO. CONC ISLAND
RAISED MEDIAN
FLOWABLE FILL
GRADE TO DRAIN
15" RCP-IV
18" RCP-IV
REMOVE
ON THE FLY, LLC
SHALLOW WELL UNITED CHURCH OF CHRIST, INC.
MYRTLE RAY MATTHEWS
Place Matting for Erosion Control on Slope as Work Allows. -L- Sta. 77+50 to 81+00 RT

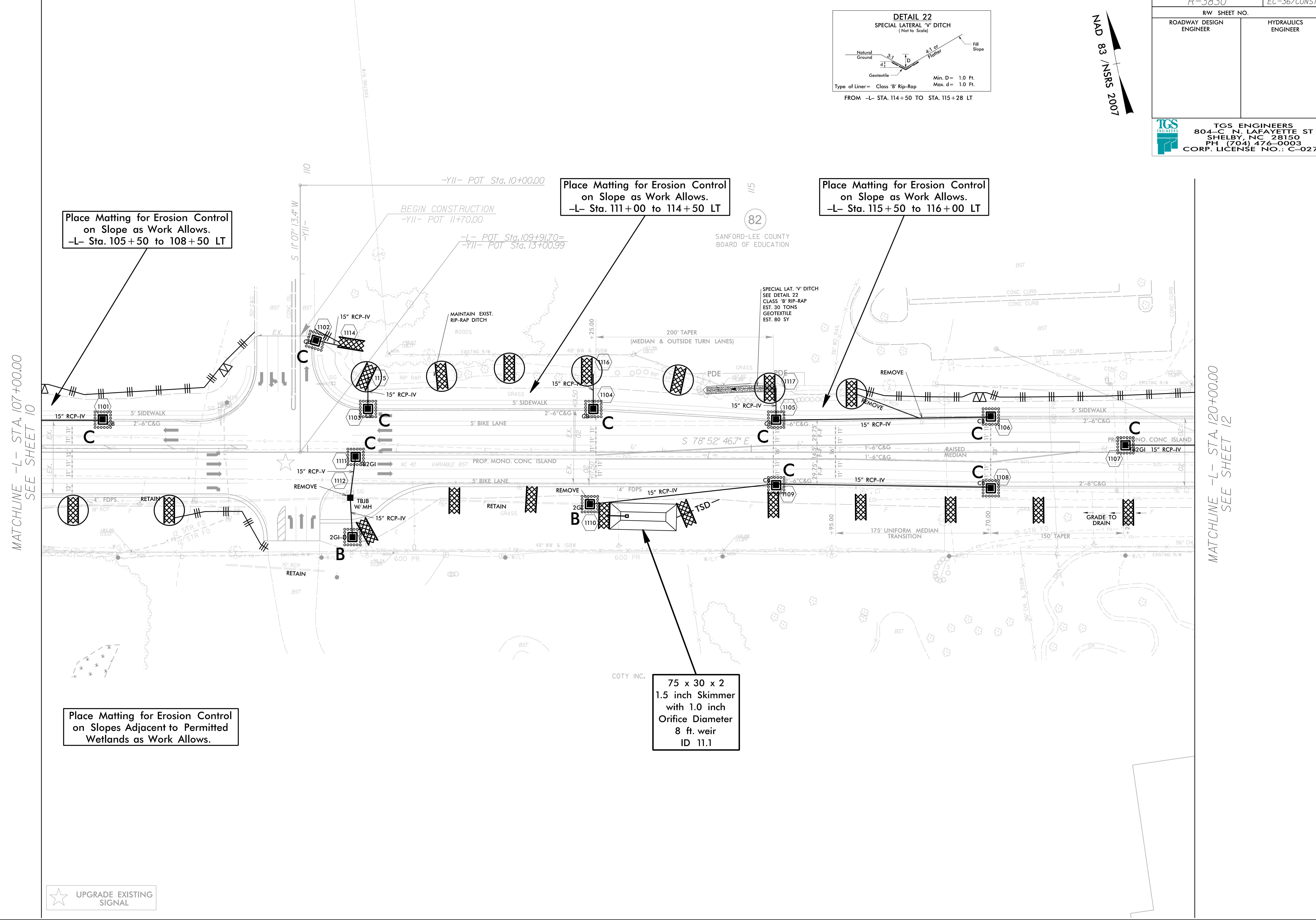

PROJECT REFERENCE NO. R-3830
SHEET NO. EC-35/CONST.10
R/W SHEET NO.
ROADWAY DESIGN ENGINEER
HYDRAULICS ENGINEER
TGS ENGINEERS
804-C N. LAFAYETTE ST
SHELBY, NC 28150
PH (704) 476-0003
CORP. LICENSE NO.: C-0275
NAD 83 /NSRS 2007
NOTE: PROVIDE A CONCRETE 'V' DITCH BEHIND THE RETAINING WALL
-L-
PI Sta 92+54.12
PIs Sta 100+81.50
Place Matting for Erosion Control on Slope as Work Allows. -L- Sta. 99+00 to 101+50 LT
Place Matting for Erosion Control on Slope as Work Allows. -L- Sta. 105+50 to 108+50 LT
TERRY LEIGH STEWART AND WIFE, SANDRA HOLT STEWART; PATRICK KEITH STEWART, SHAUN DELANEY STEWART BETHEA AND HUSBAND, JOHN PHILLIP BETHEA
KELLER INVESTMENTS, LLC
-Y9- POT Sta. 10+00.00
BEGIN CONSTRUCTION -Y9- POT 11+20.00
-Y10- POT Sta. 10+00.00
-L- POT Sta. 103+64.15= -Y10- POT Sta. 11+90.66
CLASS 'I' RIP-RAP EST. 7 TONS GEOTEXTILE EST. 15 SY
MATCHLINE -L- STA. 93+00.00 SEE SHEET 9
MATCHLINE -L- STA. 107+00.00 SEE SHEET 11
SHALLOW WELL UNITED CHURCH OF CHRIST, INC.
WESARA ASSOCIATES, LLC
COTY INC.
-L- POC Sta. 97+28.88= -Y9- POT Sta. 12+46.63
-Y10- POT Sta. 13+82.89
45 x 15 x 3 ID 10.1
MODIFY ROCK INLET SEDIMENT TRAP – TYPE C AS DIRECTED TO ENCAPSULATE DI AND TRENCH DRAIN.
NOTE: THE EXISTING SHOULDER AND TRENCH DRAIN SHALL NOT BE DISTURBED FROM -L- STA. 102+66.27 TO 104+64.73 (RT.)
UPGRADE EXISTING SIGNAL

PROJECT REFERENCE NO.	SHEET NO.
R-3830	EC-36/CONSTJI

R/W SHEET NO.

ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

TGS ENGINEERS
804-C N. LAFAYETTE ST
SHELBY, NC 28150
PH (704) 476-0003
CORP. LICENSE NO.: C-0275



DETAIL 22
SPECIAL LATERAL 'V' DITCH
(Not to Scale)
Natural Ground
Fill Slope
4:1 or Flatter
3:1
D
d
Geotextile
Type of Liner = Class 'B' Rip-Rap
Min. D = 1.0 Ft.
Max. d = 1.0 Ft.
FROM -L- STA. 114+50 TO STA. 115+28 LT
NAD 83 /NSRS 2007
Place Matting for Erosion Control on Slope as Work Allows. -L- Sta. 105+50 to 108+50 LT
Place Matting for Erosion Control on Slope as Work Allows. -L- Sta. 111+00 to 114+50 LT
Place Matting for Erosion Control on Slope as Work Allows. -L- Sta. 115+50 to 116+00 LT
Place Matting for Erosion Control on Slopes Adjacent to Permitted Wetlands as Work Allows.
75 x 30 x 2
1.5 inch Skimmer
with 1.0 inch
Orifice Diameter
8 ft. weir
ID 11.1
-YII- POT Sta. 10+00.00
BEGIN CONSTRUCTION -YII- POT 11+70.00
-L- POT Sta. 109+91.70= -YII- POT Sta. 13+00.99
S 11° 07' 13.4" W
SANFORD-LEE COUNTY BOARD OF EDUCATION
SPECIAL LAT. 'V' DITCH
SEE DETAIL 22
CLASS 'B' RIP-RAP
EST. 30 TONS
GEOTEXTILE
EST. 80 SY
200' TAPER (MEDIAN & OUTSIDE TURN LANES)
MAINTAIN EXIST. RIP-RAP DITCH
S 78° 52' 46.7" E
PROP. MONO. CONC ISLAND
5' SIDEWALK
5' BIKE LANE
2'-6" C&G
15" RCP-IV
15" RCP-V
RAISED MEDIAN
175' UNIFORM MEDIAN TRANSITION
150' TAPER
GRADE TO DRAIN
REMOVE
RETAIN
TBJB W/ MH
TSD
PDE
COTY INC.
MATCHLINE -L- STA. 107+00.00 SEE SHEET 10
MATCHLINE -L- STA. 120+00.00 SEE SHEET 12
UPGRADE EXISTING SIGNAL

PROJECT REFERENCE NO.	SHEET NO.
R-3830	EC-37/CONST J2
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

TGS ENGINEERS
804-C N. LAFAYETTE ST
SHELBY, NC 28150
PH (704) 476-0003
CORP. LICENSE NO.: C-0275

NAD 83 /NSRS 2007

-L-
PI Sta 130+71.82
△ = 31° 44' 13.7" (LT)
D = 2° 51' 53.2"
L = 1107.84'
T = 568.53'
R = 2,000.00'
SE = 0.04
Lr = 200'

-Y13-
PI Sta 11+54.71
△ = 44° 10' 17.0" (LT)
D = 19° 05' 54.9"
L = 231.28'
T = 121.73'
R = 300.00'
SE = SEE PLANS

① = -L- POT Sta.120+90.41= -Y12- POT Sta. 11+91.50
② = -L- POC Sta.128+92.24= -Y13- POT Sta. 10+00.00
③ = -Y13- PC Sta. 10+32.98

MATCHLINE -L- STA. 120+00.00 SEE SHEET 11

-Y12- POT Sta. 10+00.00
BEGIN CONSTRUCTION
-Y12- POT 10+00.00

-L- PC Sta.125+03.29

CLASS 'B' RIP-RAP EST. 2 TONS
GEOTEXTILE EST. 7 SY

S 9° 09' 24.0" W -Y12-

S 0° 09' 11.4" W -Y13-

S 78° 52' 46.7" E

150' TAPER

82 GRASS

83 DONALD R. SIMPSON FAMILY LIMITED PARTNERSHIP

87 SIMPSON & SIMPSON

88 SIMPSON & SIMPSON II

89 WILLIAM L. OLDHAM

92 DODSON FAMILY LIMITED LIABILITY COMPANY #2

86 COTY INC.

90 HARRINGTON COMPANIES, LLC

MTL STORAGE

DO NOT DISTURB FENCE, SIGN, OR SECURITY KEYPAD/GATE

DO NOT DISTURB SIGN

GAS PUMPS UNDER MTL CAN

EMERG. PUMP SHUT OFF SWITCH ATTACHED TO BOLLARD

TRANSITION 1'-6" C&G TO 2'-9" C&G -L- STA.123+69.96 TO 124+19.96 SEE DETAIL SHEET 2C-2

Place Matting for Erosion Control on Slope as Work Allows. -L- Sta. 124+50 to 128+00 RT

Place Matting for Erosion Control on Slope as Work Allows. -Y13- Sta. 10+50 to 14+25 RT

Place Matting for Erosion Control on Slope as Work Allows. -L- Sta. 129+50 to 132+50 RT

MATCHLINE -Y13- STA.12+50.00 SEE SHEET 27

MATCHLINE -L- STA. 133+00.00 SEE SHEET 13

UPGRADE EXISTING SIGNAL

PROJECT REFERENCE NO.	SHEET NO.
R-3830	EC-38/CONST.13
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

TGS ENGINEERS
804-C N. LAFAYETTE ST
SHELBY, NC 28150
PH (704) 476-0003
CORP. LICENSE NO.: C-0275

NAD 83 /NSRS 2007

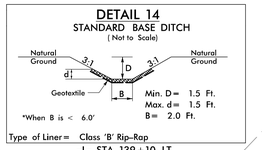
-L-
PI Sta 130+71.82
△ = 31° 44' 13.7" (LT)
D = 2° 51' 53.2"
L = 1,107.84'
T = 568.53'
R = 2,000.00'
SE = 0.04
Lr = 200'

-Y14-
PI Sta 10+84.57
△ = 11° 37' 11.9" (LT)
D = 9° 32' 57.5"
L = 121.68'
T = 61.05'
R = 600.00'
SE = SEE PLANS

-DRW3-
PI Sta 11+31.13
△ = 30° 19' 01.4" (RT)
D = 23° 28' 54.8"
L = 129.11'
T = 66.10'
R = 244.00'
SE = SEE PLANS

① = -L- POT Sta.146+04.00=
-DRW3- POT Sta. 10+00.00

DETAIL 14
STANDARD BASE DITCH
(Not to Scale)



Type of Liner = Class 'B' Rip-Rap
-L- STA. 139+10 LT

65 x 20 x 3
1.5 inch Skimmer
with 1.0 inch
Orifice Diameter
5 ft. weir
ID 13.1

60 x 40 x 3
2.0 inch Skimmer
with 1.75 inch
Orifice Diameter
18 ft. weir
(See Tiered Skimmer
Basin Detail)
ID 13.2

Modified Silt Basin
Type 'B'
60 x 40 x 3
18 ft. weir
(See Tiered Skimmer
Basin Detail)
ID 13.2

Place Matting for Erosion Control
on Slope as Work Allows.
-L- Sta. 139+00 to 140+00 LT

STANDARD BASE DITCH
SEE DETAIL 14
S=1.0%
L=50'
EST. 15 CY DDE
CLASS 'B' RIP-RAP
EST. 35 TONS
GEOTEXTILE
EST. 90 SY

STANDARD BASE DITCH
SEE DETAIL 14
S=5.0%
L=150'
EST. 40 CY DDE
CLASS 'B' RIP-RAP
EST. 95 TONS
GEOTEXTILE
EST. 250 SY

REMOVE EXIST. CONC. FLUME
RETAIN
RETAIN
REMOVE 24" RCP-IV

-Y14- POT Sta. 10+00.00
-Y14- PC Sta. 10+23.52
BEGIN CONSTRUCTION
-Y14- POC 10+96.00
ARDEN CORPORATION

-Y14- PT Sta. 11+45.20
S 20° 39' 50.8" E

-Y14- LT
S 9° 01' 38.9" E
THORNWOOD VILLAGE, LLC

PT Sta. 10+11.13

SIMPSON & SIMPSON II

93 CARROLL F. WILLIAMS
96
98
99
100 ARDEN CORPORATION
102 J & F AMUSEMENTS INC.
97 ARDEN CORPORATION
90 HARRINGTON COMPANIES, LLC
101 EUGENE GRAHAM ROSSER AND WIFE, MARY SMITH ROSSER

-L- Sta. 138+26.52=
-Y14- POT Sta. 11+95.41

-DRW3- PC Sta. 10+65.03
END CONSTRUCTION
-DRW3- POC 11+35.00

-DRW3- PT Sta. 11+94.14
-DRW3- POT Sta. 12+03.01
S 9° 40' 42.2" W

N 69° 22' 59.6" E

MATCHLINE -L- STA. 133+00.00
SEE SHEET 12

MATCHLINE -L- STA. 147+00.00
SEE SHEET 14

IN LIEU OF ROCK INLET SEDIMENT TRAP TYPE C, UTILIZE FABRIC INSERT INLET PROTECTION DEVICES IN AREAS WHERE WATER MAY POND ON ROAD OPEN TO LIVE TRAFFIC.

PROJECT REFERENCE NO.	SHEET NO.
R-3830	EC-39/CONST.14
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

TGS ENGINEERS
804-C N. LAFAYETTE ST
SHELBY, NC 28150
PH (704) 476-0003
CORP. LICENSE NO.: C-0275

NAD 83 /NSRS 2007

-L-
PI Sta 157+76.14
Δ = 8° 06' 07.1" (LT)
D = 2° 17' 30.6"
L = 353.51'
T = 177.05'
R = 2,500.00'
SE = 0.03
Lr = 150'

-Y15-
PI Sta 10+93.49
Δ = 41° 43' 00.3" (RT)
D = 38° 11' 49.9"
L = 109.21'
T = 57.15'
R = 150.00'
SE = SEE PLANS

110 x 55 x 3
2.5 inch Skimmer
with 2.125 inch
Orifice Diameter
21 ft. weir
ID 14.1

Place Matting for Erosion Control
on Slope as Work Allows.
-L- Sta. 150+00 to 152+50 LT

-L- PC Sta. 155+99.09

-L- PT Sta. 159+52.60

-L- POC Sta. 159+16.46 =
-Y15- POT Sta. 10+00.00

MATCHLINE -L- STA. 147+00.00
SEE SHEET 13

MATCHLINE -L- STA. 160+50.00
SEE SHEET 15

103 J & F AMUSEMENTS INC.

104 EUGENE GRAHAM ROSSER AND WIFE, MARY SMITH ROSSER

105 LINDA R. BROOME, TRUSTEE OF THE CORTEZ ROSSER TRUST DATED DECEMBER 13, 1996

107 J & S SLOAN PROPERTIES, LLC

108 ALICE FAYE BRYANT

101 EUGENE GRAHAM ROSSER AND WIFE, MARY SMITH ROSSER

CLASS 'I' RIP-RAP
EST. 7 TONS
GEOTEXTILE
EST. 15 SY

TRANSITION 1'-6" C&G TO 2'-9" C&G
-L- STA.154+99.09 TO 155+49.09
SEE DETAIL SHEET 2C-2

END 2'-9" C&G
-L- STA.160+02.60
BEGIN TRANSITION
TO 1'-6" C&G
SEE DETAIL SHEET 2C-2

FLOWABLE FILL

SPECIAL BACK OF CURB CUT DITCH
SEE DETAIL 1

18" W/ ELBOW

CLASS 'B' RIP-RAP
EST. 3 TONS
GEOTEXTILE
EST. 10 SY

STANDARD V DITCH
SEE DETAIL 12
S = 0.5%
L = 60'
EST. 10 CY DDE

-Y15- PC Sta. 10+36.34

-Y15- PT Sta. 11+45.55

Place Matting for Erosion Control
on Slope as Work Allows.
-L- Sta. 157+00 to 158+50 RT

END CONSTRUCTION
-Y15- POT 12+62.00

-Y15- POT Sta. 12+00.00

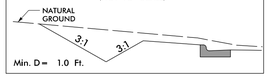
S 28° 32' 06.8" E
-Y15-

S 13° 10' 53.4" W
-Y15-

N 69° 22' 59.6" E
-L-

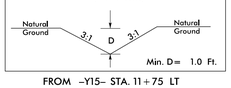
Place Matting for Erosion Control
on Slope as Work Allows.
-Y15- Sta. 10+50 to 10+75 LT

DETAIL 1
SPECIAL BACK OF CURB CUT DITCH
(NOT TO SCALE)



FROM -L- STA. 150+50 TO STA. 155+50 RT

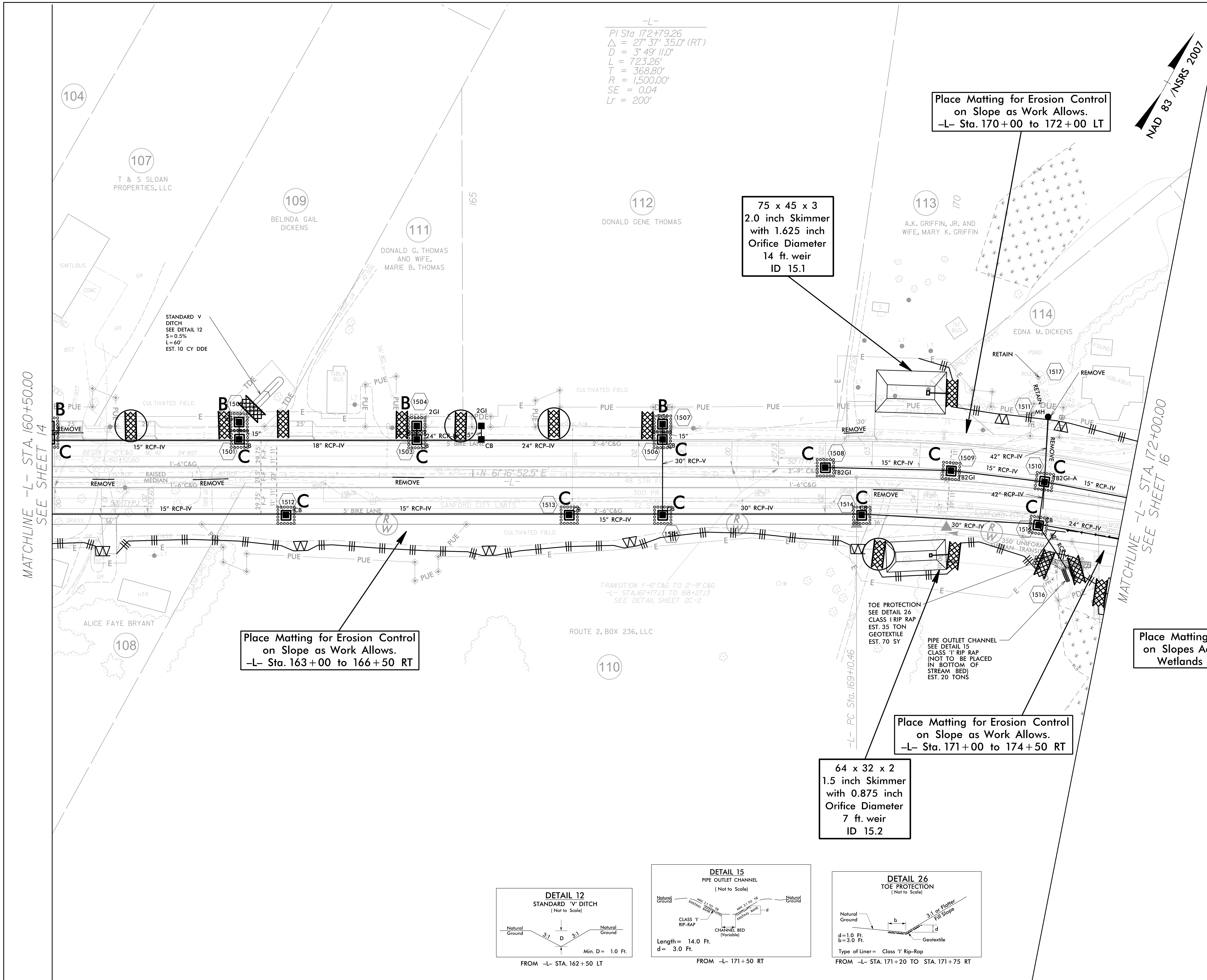
DETAIL 12
STANDARD 'V' DITCH
(Not to Scale)



FROM -Y15- STA. 11+75 LT

PROJECT REFERENCE NO.	SHEET NO.
R-3830	EC-40/CONST15
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

TGS ENGINEERS
804-C N. LAFAYETTE ST
SHELBY, NC 28150
PH (704) 476-0003
CORP. LICENSE NO.: C-0275



NAD 83 /NSRS 2007
-L-
PI Sta 172+79.26
△ = 27° 37' 35.0" (RT)
D = 3° 49' 11.0"
L = 723.26'
T = 368.80'
R = 1,500.00'
SE = 0.04
Lr = 200'
MATCHLINE -L- STA. 160+50.00 SEE SHEET 14
MATCHLINE -L- STA. 172+00.00 SEE SHEET 16
T & S SLOAN PROPERTIES, LLC
BELINDA GAIL DICKENS
DONALD G. THOMAS AND WIFE, MARIE B. THOMAS
DONALD GENE THOMAS
A.K. GRIFFIN, JR. AND WIFE, MARY K. GRIFFIN
EDNA M. DICKENS
ALICE FAYE BRYANT
ROUTE 2, BOX 236, LLC
STANDARD V DITCH SEE DETAIL 12 S=0.5% L=60' EST. 10 CY DDE
Place Matting for Erosion Control on Slope as Work Allows. -L- Sta. 170+00 to 172+00 LT
75 x 45 x 3
2.0 inch Skimmer
with 1.625 inch
Orifice Diameter
14 ft. weir
ID 15.1
Place Matting for Erosion Control on Slope as Work Allows. -L- Sta. 163+00 to 166+50 RT
TOE PROTECTION SEE DETAIL 26 CLASS I RIP RAP EST. 35 TON GEOTEXTILE EST. 70 SY
PIPE OUTLET CHANNEL SEE DETAIL 15 CLASS 'I' RIP RAP (NOT TO BE PLACED IN BOTTOM OF STREAM BED) EST. 20 TONS
Place Matting for Erosion Control on Slopes Adjacent to Permitted Wetlands as Work Allows.
Place Matting for Erosion Control on Slope as Work Allows. -L- Sta. 171+00 to 174+50 RT
64 x 32 x 2
1.5 inch Skimmer
with 0.875 inch
Orifice Diameter
7 ft. weir
ID 15.2
DETAIL 12
STANDARD 'V' DITCH
(Not to Scale)
Min. D= 1.0 Ft.
FROM -L- STA. 162+50 LT
DETAIL 15
PIPE OUTLET CHANNEL
(Not to Scale)
Length= 14.0 Ft.
d= 3.0 Ft.
FROM -L- 171+50 RT
DETAIL 26
TOE PROTECTION
(Not to Scale)
d=1.0 Ft.
b=3.0 Ft.
Type of Liner= Class 'I' Rip-Rap
FROM -L- STA. 171+20 TO STA. 171+75 RT

PROJECT REFERENCE NO.	SHEET NO.
R-3830	EC-4I/CONSTJ6
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

TGS ENGINEERS
804-C N. LAFAYETTE ST
SHELBY, NC 28150
PH (704) 476-0003
CORP. LICENSE NO.: C-0275

NAD 83 /NSRS 2007

-L-

PI Sta 172+79.26	PI Sta 183+58.98
Δ = 27° 37' 35.0" (RT)	Δ = 16° 57' 18.8" (LT)
D = 3° 49' 11.0"	D = 3° 34' 51.6"
L = 723.26'	L = 473.48'
T = 368.80'	T = 238.48'
R = 1,500.00'	R = 1,600.00'
SE = 0.04	SE = 0.04
Lr = 200'	Lr = 132'

-Y16-

PI Sta 10+49.24	PI Sta 12+59.91
Δ = 1° 09' 01.0" (RT)	Δ = 35° 47' 16.0" (LT)
D = 1° 10' 05.4"	D = 11° 27' 33.0"
L = 98.47'	L = 312.31'
T = 49.24'	T = 161.44'
R = 4,904.81'	R = 500.00'
V = 40 mph	V = 40 mph
SE = SEE PLANS	SE = SEE PLANS

GEORGE WAYNE WATSON AND WIFE, JUDY G. WATSON (116)

-Y16- PC Sta. 10+00.00

BEGIN CONSTRUCTION
-Y16- POC 10+81.00

-Y16- PRC Sta. 10+98.47

Place Matting for Erosion Control on Slope as Work Allows.
-Y16- Sta. 13+75 to 14+00 RT

CHRISTOPHER WADE DEAN (115)

JOSE LUIS LLAMAS GARCIA AND WIFE, SAGRARIO C. TORRES (118)

DONALD G. THOMAS (119)

-Y16- PT Sta. 14+10.78

EDNA M. DICKENS (114)

SPECIAL CUT DITCH SEE DETAIL 2

SPECIAL BACK OF CURB CUT DITCH SEE DETAIL 1

SPECIAL CUT DITCH SEE DETAIL 7

WILBER F. THOMAS AND WIFE, BOBBIE S. THOMAS (120)

BEGIN BIKE LANE STA 178+35

-L- PC Sta. 181+20.50

ANTHONY HART AND WIFE SANDRA HART (122)

SPECIAL CUT DITCH SEE DETAIL 2

-L- STA. 185+00.00
MATCHLINE -L-
SEE SHEET 17

-L- STA. 172+00.00
MATCHLINE -L-
SEE SHEET 15

SR 1579 BROADWAY RD
N 88° 54' 27.5" E

END BIKE LANE STA 178+35

825' ROADWAY WIDTH TRANSITION (BOTH SIDES)

350' UNIFORM MEDIAN TRANSITION

-L- PT Sta. 176+33.72

WILBER F. THOMAS AND WIFE, BOBBIE S. THOMAS (117)

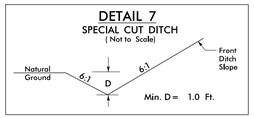
BETTIE B. GILLIS (121)

110 x 35 x 3
2.0 inch Skimmer
with 1.625 inch
Orifice Diameter
14 ft. weir
ID 16.1

Place Matting for Erosion Control on Slope as Work Allows.
-L- Sta. 171+00 to 174+50 RT

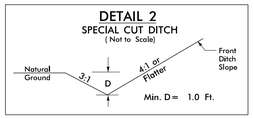
Place Matting for Erosion Control on Slopes Adjacent to Permitted Wetlands as Work Allows.

DETAIL 7
SPECIAL CUT DITCH
(Not to Scale)



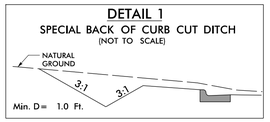
FROM -L- STA. 178+00 TO STA. 178+50 LT

DETAIL 2
SPECIAL CUT DITCH
(Not to Scale)



FROM -Y16- STA. 13+00 TO STA. 13+75 LT
FROM -L- STA. 183+00 TO STA. 185+00 LT

DETAIL 1
SPECIAL BACK OF CURB CUT DITCH
(NOT TO SCALE)



FROM -L- STA. 174+37 TO STA. 175+14 LT
FROM -L- STA. 176+00 TO STA. 178+00 LT

PROJECT REFERENCE NO.	SHEET NO.
R-3830	EC-42/CONST.17
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

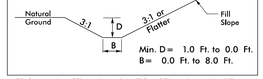
TGS ENGINEERS
804-C N. LAFAYETTE ST
SHELBY, NC 28150
PH (704) 476-0003
CORP. LICENSE NO.: C-0275

NAD 83 /NSRS 2007

-L-
PI Sta 183+58.98
△ = 16° 57' 18.8" (LT)
D = 3° 34' 51.6"
L = 473.48'
T = 238.48'
R = 1,600.00'
SE = 0.04
Lr = 132'

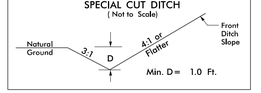
PI Sta 196+95.94
△ = 10° 40' 14.3" (RT)
D = 1° 35' 29.6"
L = 670.46'
T = 336.20'
R = 3,600.00'
SE = 0.03
Lr = 99'

DETAIL 8
VAR. WIDTH SPECIAL LATERAL BASE DITCH
(Not to Scale)



Min. D = 1.0 Ft. to 0.0 Ft.
B = 0.0 Ft. to 8.0 Ft.
FROM -L- STA. 191+20 TO STA. 191+50 LT

DETAIL 2
SPECIAL CUT DITCH
(Not to Scale)



Min. D = 1.0 Ft.
FROM -L- STA. 191+50 TO STA. 194+00 LT
FROM -L- STA. 185+00 TO STA. 187+50 LT

80 x 40 x 3
2.0 inch Skimmer
with 1.625 inch
Orifice Diameter
12 ft. weir
ID 17.3

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

Place Matting for Erosion Control on Slope as Work Allows.
-L- Sta. 188+50 to 192+00 LT

40 x 20 x 3
1.5 inch Skimmer
with 0.75 inch
Orifice Diameter
4 ft. weir
ID 17.1

-L- PT Sta. 185+93.98

-L- PC Sta. 193+59.73

123 CLAYTON THOMAS HEIRS

128 O.T. THOMAS AND WIFE VERLIE P. THOMAS, AS TENANTS BY THE ENTIRETY OF A LIFE ESTATE, AND MABEL THOMAS LOYD & HUSBAND W.H. LOYD IN REMAINDER

BURY INVERT 1.0 FT BELOW STREAM BED

VAR. WIDTH SPECIAL LATERAL BASE DITCH SEE DETAIL 8

LATERAL BASE DITCH SEE DETAIL 5 EST. 190 CY DDE

SPECIAL CUT DITCH SEE DETAIL 2

SPECIAL CUT DITCH SEE DETAIL 2

TOE PROTECTION SEE DETAIL 26 CLASS I RIP RAP EST. 55 TON GEOTEXTILE EST. 110 SY

MATCHLINE -L- STA. 185+00.00 SEE SHEET 16

MATCHLINE -L- STA. 198+50.00 SEE SHEET 18

TOE PROTECTION SEE DETAIL 26 CLASS I RIP RAP EST. 20 TON GEOTEXTILE EST. 40 SY

Place Matting for Erosion Control on Slope as Work Allows.
-L- Sta. 188+00 to 190+50 RT

BURY INVERT 1.0 FT BELOW STREAM BED

124 MITCHELL L. PATTERSON

Place Matting for Erosion Control on Slope as Work Allows.
-L- Sta. 185+00 to 186+50 RT

PIPE OUTLET CHANNEL SEE DETAIL 13 CLASS 'I' RIP RAP (NOT TO BE PLACED IN BOTTOM OF STREAM BED) EST. 33 TONS

LATERAL BASE DITCH SEE DETAIL 5 CLASS 'B' RIP RAP EST. 20 TON GEOTEXTILE EST. 48 SY EST. 25 CY DDE

127 L.W. PATTERSON HEIRS

129 C. JOYCE THOMAS

CLAYTON THOMAS AND WIFE, LAURA K. THOMAS

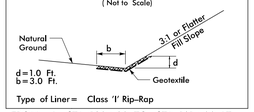
126

SPECIAL CUT BASE DITCH SEE DETAIL 25 CLASS 'B' RIP RAP EST. 45 TON GEOTEXTILE EST. 114 SY

80 x 40 x 3
2.0 inch Skimmer
with 1.625 inch
Orifice Diameter
11 ft. weir
ID 17.2

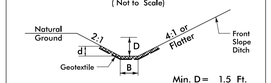
130 CLARA JOYCE PATTERSON

DETAIL 26
TOE PROTECTION
(Not to Scale)



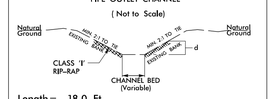
d=1.0 Ft.
b=3.0 Ft.
Type of Liner= Class 'I' Rip-Rap
FROM -L- STA. 190+00 TO STA. 191+00 LT

DETAIL 25
SPECIAL CUT BASE DITCH
(Not to Scale)



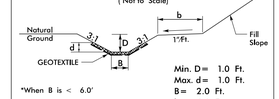
Min. D= 1.5 Ft.
Max. d= 1.5 Ft.
B= 2.0 Ft.
Type of Liner= Class 'B' Rip-Rap
FROM STA. 190+65 TO STA. 191+64 RT

DETAIL 13
PIPE OUTLET CHANNEL
(Not to Scale)

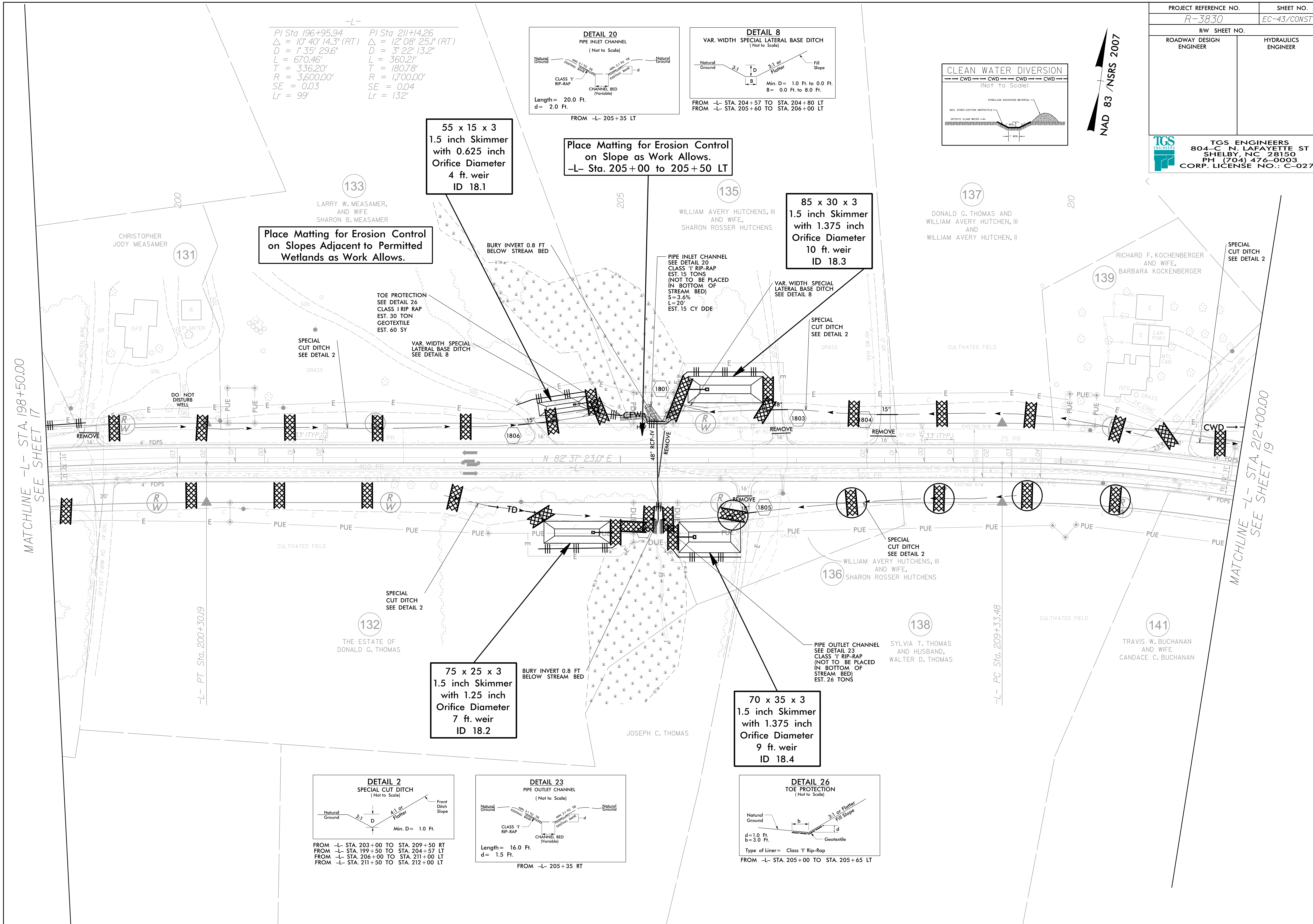


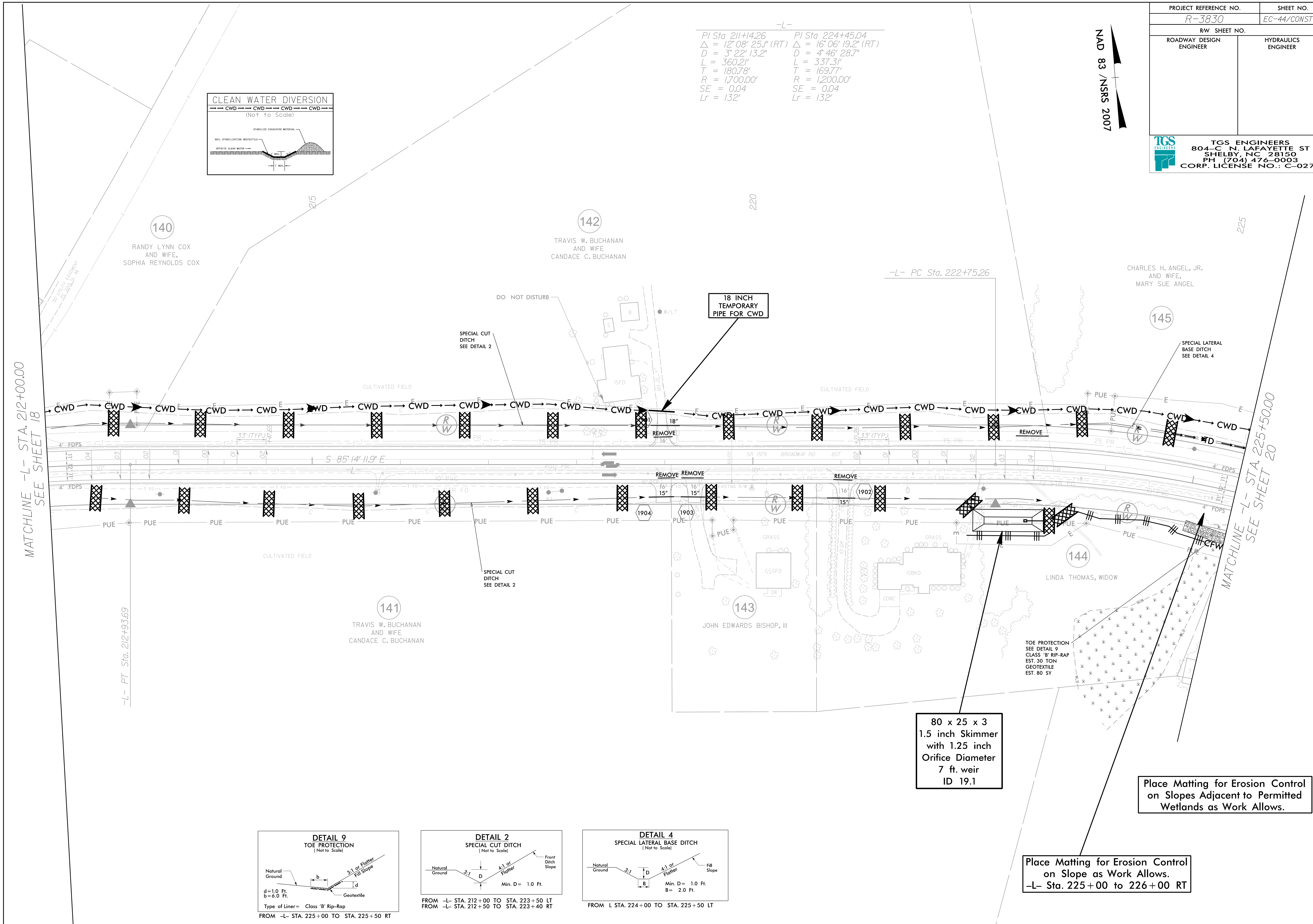
Length= 18.0 Ft.
d= 5.0 Ft.
FROM -L- STA. 189+79 RT

DETAIL 5
LATERAL BASE DITCH
(Not to Scale)



Min. D= 1.0 Ft.
Max. d= 1.0 Ft.
B= 2.0 Ft.
b= 5.0 Ft.
*When B is < 6.0'
Type of Liner= Class 'B' Rip-Rap
FROM -L- STA. 189+83 TO STA. 190+22 RT
FROM -L- STA. 191+50 TO STA. 192+50 LT


PROJECT REFERENCE NO.
SHEET NO.
R-3830
EC-43/CONSTJ8
R/W SHEET NO.
ROADWAY DESIGN ENGINEER
HYDRAULICS ENGINEER
TGS ENGINEERS
804-C N. LAFAYETTE ST
SHELBY, NC 28150
PH (704) 476-0003
CORP. LICENSE NO.: C-0275
NAD 83 /NSRS 2007
CLEAN WATER DIVERSION
(Not to Scale)
-L-
PI Sta 196+95.94
Δ = 10° 40' 14.3" (RT)
D = 1° 35' 29.6"
L = 670.46'
T = 336.20'
R = 3,600.00'
SE = 0.03
Lr = 99'
PI Sta 211+14.26
Δ = 12° 08' 25.1" (RT)
D = 3° 22' 13.2"
L = 360.21'
T = 180.78'
R = 1,700.00'
SE = 0.04
Lr = 132'
DETAIL 20
PIPE INLET CHANNEL
(Not to Scale)
Natural Ground
CLASS 'I' RIP-RAP
CHANNEL BED (Variable)
Length = 20.0 Ft.
d = 2.0 Ft.
FROM -L- 205+35 LT
DETAIL 8
VAR. WIDTH SPECIAL LATERAL BASE DITCH
(Not to Scale)
Natural Ground
3:1 or Flatter
Fill Slope
Min. D = 1.0 Ft. to 0.0 Ft.
B = 0.0 Ft. to 8.0 Ft.
FROM -L- STA. 204+57 TO STA. 204+80 LT
FROM -L- STA. 205+60 TO STA. 206+00 LT
55 x 15 x 3
1.5 inch Skimmer
with 0.625 inch
Orifice Diameter
4 ft. weir
ID 18.1
Place Matting for Erosion Control
on Slope as Work Allows.
-L- Sta. 205+00 to 205+50 LT
85 x 30 x 3
1.5 inch Skimmer
with 1.375 inch
Orifice Diameter
10 ft. weir
ID 18.3
Place Matting for Erosion Control
on Slopes Adjacent to Permitted
Wetlands as Work Allows.
133
LARRY W. MEASAMER,
AND WIFE
SHARON B. MEASAMER
131
CHRISTOPHER
JODY MEASAMER
135
WILLIAM AVERY HUTCHENS, III
AND WIFE,
SHARON ROSSER HUTCHENS
137
DONALD G. THOMAS AND
WILLIAM AVERY HUTCHEN, III
AND
WILLIAM AVERY HUTCHEN, II
139
RICHARD F. KOCHENBERGER
AND WIFE,
BARBARA KOCKENBERGER
SPECIAL
CUT DITCH
SEE DETAIL 2
BURY INVERT 0.8 FT
BELOW STREAM BED
PIPE INLET CHANNEL
SEE DETAIL 20
CLASS 'I' RIP-RAP
EST. 15 TONS
(NOT TO BE PLACED
IN BOTTOM OF
STREAM BED)
S = 3.6%
L = 20'
EST. 15 CY DDE
TOE PROTECTION
SEE DETAIL 26
CLASS I RIP RAP
EST. 30 TON
GEOTEXTILE
EST. 60 SY
VAR. WIDTH SPECIAL
LATERAL BASE DITCH
SEE DETAIL 8
DO NOT
DISTURB
WELL
REMOVE
CFW
CWD
48" RCP-IV
N 82° 37' 23.0" E
MATCHLINE -L- STA. 198+50.00
SEE SHEET 17
MATCHLINE -L- STA. 212+00.00
SEE SHEET 19
TD
DUE
PUE
CULTIVATED FIELD
1801
1803
1804
1805
1806
SPECIAL
CUT DITCH
SEE DETAIL 2
WILLIAM AVERY HUTCHENS, III
AND WIFE,
136
SHARON ROSSER HUTCHENS
132
THE ESTATE OF
DONALD G. THOMAS
138
SYLVIA T. THOMAS
AND HUSBAND,
WALTER D. THOMAS
141
TRAVIS W. BUCHANAN
AND WIFE
CANDACE C. BUCHANAN
JOSEPH C. THOMAS
-L- PT Sta. 200+30.19
-L- PC Sta. 209+33.48
PIPE OUTLET CHANNEL
SEE DETAIL 23
CLASS 'I' RIP-RAP
(NOT TO BE PLACED
IN BOTTOM OF
STREAM BED)
EST. 26 TONS
BURY INVERT 0.8 FT
BELOW STREAM BED
75 x 25 x 3
1.5 inch Skimmer
with 1.25 inch
Orifice Diameter
7 ft. weir
ID 18.2
70 x 35 x 3
1.5 inch Skimmer
with 1.375 inch
Orifice Diameter
9 ft. weir
ID 18.4
DETAIL 2
SPECIAL CUT DITCH
(Not to Scale)
Natural Ground
Front Ditch Slope
4:1 or Flatter
Min. D = 1.0 Ft.
FROM -L- STA. 203+00 TO STA. 209+50 RT
FROM -L- STA. 199+50 TO STA. 204+57 LT
FROM -L- STA. 206+00 TO STA. 211+00 LT
FROM -L- STA. 211+50 TO STA. 212+00 LT
DETAIL 23
PIPE OUTLET CHANNEL
(Not to Scale)
Natural Ground
CLASS 'I' RIP-RAP
CHANNEL BED (Variable)
Length = 16.0 Ft.
d = 1.5 Ft.
FROM -L- 205+35 RT
DETAIL 26
TOE PROTECTION
(Not to Scale)
Natural Ground
3:1 or Flatter Fill Slope
Geotextile
d = 1.0 Ft.
b = 3.0 Ft.
Type of Liner = Class 'I' Rip-Rap
FROM -L- STA. 205+00 TO STA. 205+65 LT


PROJECT REFERENCE NO.
R-3830
SHEET NO.
EC-44/CONSTJ9
R/W SHEET NO.
ROADWAY DESIGN ENGINEER
HYDRAULICS ENGINEER
TGS ENGINEERS
804-C N. LAFAYETTE ST
SHELBY, NC 28150
PH (704) 476-0003
CORP. LICENSE NO.: C-0275
NAD 83 /NSRS 2007
-L-
PI Sta 211+14.26
Δ = 12° 08' 25.1" (RT)
D = 3° 22' 13.2"
L = 360.21'
T = 180.78'
R = 1,700.00'
SE = 0.04
Lr = 132'
PI Sta 224+45.04
Δ = 16° 06' 19.2" (RT)
D = 4° 46' 28.7"
L = 337.31'
T = 169.77'
R = 1,200.00'
SE = 0.04
Lr = 132'
CLEAN WATER DIVERSION
(Not to Scale)
140
RANDY LYNN COX
AND WIFE,
SOPHIA REYNOLDS COX
142
TRAVIS W. BUCHANAN
AND WIFE
CANDACE C. BUCHANAN
DO NOT DISTURB
18 INCH
TEMPORARY
PIPE FOR CWD
-L- PC Sta. 222+75.26
CHARLES H. ANGEL, JR.
AND WIFE,
MARY SUE ANGEL
145
SPECIAL LATERAL
BASE DITCH
SEE DETAIL 4
SPECIAL CUT
DITCH
SEE DETAIL 2
CULTIVATED FIELD
MATCHLINE -L- STA. 212+00.00
SEE SHEET 18
MATCHLINE -L- STA. 225+50.00
SEE SHEET 20
S 85° 14' 11.9" E
REMOVE
1904
1903
1902
144
LINDA THOMAS, WIDOW
141
TRAVIS W. BUCHANAN
AND WIFE
CANDACE C. BUCHANAN
143
JOHN EDWARDS BISHOP, III
-L- PT Sta. 212+93.69
TOE PROTECTION
SEE DETAIL 9
CLASS 'B' RIP-RAP
EST. 30 TON
GEOTEXTILE
EST. 80 SY
80 x 25 x 3
1.5 inch Skimmer
with 1.25 inch
Orifice Diameter
7 ft. weir
ID 19.1
Place Matting for Erosion Control
on Slopes Adjacent to Permitted
Wetlands as Work Allows.
Place Matting for Erosion Control
on Slope as Work Allows.
-L- Sta. 225+00 to 226+00 RT
DETAIL 9
TOE PROTECTION
(Not to Scale)
Natural Ground
3:1 or Flatter Fill Slope
Geotextile
d=1.0 Ft.
b=6.0 Ft.
Type of Liner= Class 'B' Rip-Rap
FROM -L- STA. 225+00 TO STA. 225+50 RT
DETAIL 2
SPECIAL CUT DITCH
(Not to Scale)
Natural Ground
4:1 or Flatter
Front Ditch Slope
Min. D= 1.0 Ft.
FROM -L- STA. 212+00 TO STA. 223+50 LT
FROM -L- STA. 212+50 TO STA. 223+40 RT
DETAIL 4
SPECIAL LATERAL BASE DITCH
(Not to Scale)
Natural Ground
4:1 or Flatter
Fill Slope
Min. D= 1.0 Ft.
B= 2.0 Ft.
FROM L STA. 224+00 TO STA. 225+50 LT

PROJECT REFERENCE NO.	SHEET NO.
R-3830	EC-45/CONST.20
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

TGS ENGINEERS
804-C N. LAFAYETTE ST
SHELBY, NC 28150
PH (704) 476-0003
CORP. LICENSE NO.: C-0275

NAD 83 /NSRS 2007

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

-L-
PI Sta 224+45.04
Δ = 16° 06' 19.2" (RT)
D = 4° 46' 28.7"
L = 337.31'
T = 169.77'
R = 1,200.00'
SE = 0.04
Lr = 132'
NON-STANDARD

PI Sta 249+46.76
Δ = 20° 02' 09.1" (LT)
D = 0° 59' 16.3"
L = 2,028.21'
T = 1,024.57'
R = 5,800.00'
SE = 0.02
Lr = 66'

-Y17-
PI Sta 12+08.98
Δ = 12° 03' 37.4" (RT)
D = 19° 05' 54.9"
L = 63.15'
T = 31.69'
R = 300.00'
SE = SEE PLANS
① = -Y17- PT Sta. 12+40.43
② = -L- POT Sta. 227+01.53= -Y17- POT Sta. 12+72.74

-Y17- POT Sta. 10+00.00
BEGIN CONSTRUCTION
-Y17- POT 11+60.00
-Y17- PC Sta. 11+77.28

90 x 20 x 3
1.5 inch Skimmer
with 1.125 inch
Orifice Diameter
7 ft. weir
ID 20.1

50 x 25 x 3
1.5 inch Skimmer
with 1.00 inch
Orifice Diameter
4 ft. weir
ID 20.4

75 x 30 x 3
1.5 inch Skimmer
with 1.25 inch
Orifice Diameter
9 ft. weir
ID 20.2

90 x 60 x 3
2.0 inch Skimmer
with 2.0 inch
Orifice Diameter
17 ft. weir
ID 20.3

CLEAN WATER DIVERSION
(Not to Scale)
CWD CWD CWD CWD
SOIL STABILIZATION GEOTEXTILE
STABILIZE EXCAVATED MATERIAL
OFFSITE CLEAN WATER

DETAIL 19
VAR. WIDTH SPECIAL LATERAL BASE DITCH
(Not to Scale)
Natural Ground, 3:1, d, D, B, Geotextile, 3:1, Fill Slope
Min. D= 1.0 Ft. to 0.0 Ft.
B= 0.0 Ft. to 8.0 Ft.
Type of Liner= Class 'I' Rip-Rap
FROM -L- STA. 238+00 TO STA. 238+50 LT

DETAIL 11
STANDARD BASE DITCH
(Not to Scale)
Natural Ground, 2:1, d, D, 2:1, Natural Ground, Geotextile, B
Min. D= 1.0 Ft.
Max. d= 1.0 Ft.
B= 2.0 Ft.
*When B is < 6.0'
Type of Liner= Class 'B' Rip-Rap
FROM -L- STA. 227+30 TO STA. 227+50 LT

Place Matting for Erosion Control on Slope as Work Allows.
-L- Sta. 234+50 to 238+00 LT

Place Matting for Erosion Control on Slope as Work Allows.
-L- Sta. 225+00 to 226+00 RT

Place Matting for Erosion Control on Slope as Work Allows.
-L- Sta. 227+00 to 228+00 RT

2' STD. BASE DITCH
SEE DETAIL 11
S=0.5%
L=20'
EST. 5 CY DDE
CLASS B RIP RAP
EST. 15 TON
GEOTEXTILE
EST. 38 SY

PIPE INLET CHANNEL
SEE DETAIL 27
CLASS 'I' RIP RAP
EST. 15 TONS
S=1.5%
L=24'
EST. 20 CY DDE

BURY INVERT 1.0 FT
BELOW STREAM BED

LATERAL
BASE DITCH
SEE DETAIL 5
CLASS 'B' RIP-RAP
EST. 75 TONS
GEOTEXTILE
EST. 205 SY
EST. 85 CY DDE

18 INCH
TEMPORARY
PIPE FOR CWD

18 INCH
TEMPORARY
PIPE FOR CWD

TOE PROTECTION
SEE DETAIL 18
CLASS I RIP RAP
EST. 335 TON
GEOTEXTILE
EST. 589 SY

VAR. WIDTH SPECIAL
LATERAL BASE DITCH
SEE DETAIL 19
CLASS I RIP RAP
EST. 38 TON
GEOTEXTILE
EST. 70 SY

SPECIAL LATERAL
BASE DITCH
SEE DETAIL 4

SPECIAL CUT
DITCH
SEE DETAIL 2

SPECIAL LATERAL
BASE DITCH
SEE DETAIL 4

SPECIAL CUT
DITCH
SEE DETAIL 2

TOE PROTECTION
SEE DETAIL 9
CLASS 'B' RIP-RAP
EST. 30 TON
GEOTEXTILE
EST. 80 SY

PIPE OUTLET CHANNEL
SEE DETAIL 16
CLASS 'I' RIP RAP
EST. 65 TONS
S=1.5%
L=38'
EST. 20 CY DDE

RIP RAP AT
EMBANKMENT
SEE DETAIL 10
CLASS 'I' RIP RAP
EST. 20 TONS

BURY INVERT 1.0 FT
BELOW STREAM BED

-L- PT Sta. 226+12.57

-L- PC Sta. 239+22.19

-L- STA. 225+50.00
SEE SHEET 19

-L- STA. 239+50.00
SEE SHEET 21

ROBERT ROBICHAUD
CHARLES H. ANGEL, JR. AND WIFE, MARY SUE ANGEL
JANICE S. JONES AND HUSBAND, JAY LYNN JONES
SUSAN VIRGIN, TRUSTEE SUSAN VIRGIN TRUST
ALFRED BENNY SLOAN, JR.
PEGGY B. NORRIS
JOSEPH M. SLOAN
DAVID BODENHAMER AND WIFE DONNA BODENHAMER
LOUIS M. SLOAN AND WIFE, GAIL P. SLOAN

DETAIL 27
PIPE INLET CHANNEL
(Not to Scale)
Natural Ground, min 2:1 TO TR, EXISTING SOIL, min 2:1 TO TR, COMPACTED BACKFILL, Natural Ground, d, CLASS 'I' RIP-RAP, CHANNEL BED (Variable)
Length= 24.0 Ft.
d= 3.0 Ft.
FROM -L- 228+20 LT

DETAIL 16
PIPE OUTLET CHANNEL
(Not to Scale)
Natural Ground, min 2:1 TO TR, EXISTING SOIL, min 2:1 TO TR, COMPACTED BACKFILL, Natural Ground, d, *CLASS 'I' RIP-RAP, CHANNEL BED (Variable)
Length= 38.0 Ft.
d= 4.5 Ft.
*CLASS 'I' RIP-RAP IS TO BE BACKFILLED WITH NATIVE MATERIAL TO REMOVE VOIDS.
FROM -L- 228+30 RT

DETAIL 18
TOE PROTECTION
(Not to Scale)
Natural Ground, b, 3:1 or Flatter Fill Slope, d, Geotextile
d=1.5 Ft.
b=6.0 Ft.
Type of Liner= Class 'I' Rip-Rap
FROM -L- STA. 234+50 TO STA. 238+00 LT

DETAIL 5
LATERAL BASE DITCH
(Not to Scale)
Natural Ground, 3:1, d, D, 3:1, b, 1':1Ft., Fill Slope, GEOTEXTILE, B
*When B is < 6.0'
Min. D= 1.0 Ft.
Max. d= 1.0 Ft.
B= 2.0 Ft.
b= 5.0 Ft.
Type of Liner= Class 'B' Rip-Rap
FROM -L- STA. 228+21 TO STA. 230+00 LT

DETAIL 9
TOE PROTECTION
(Not to Scale)
Natural Ground, b, 3:1 or Flatter Fill Slope, d, Geotextile
d=1.5 Ft.
b=6.0 Ft.
Type of Liner= Class 'B' Rip-Rap
FROM -L- STA. 225+50 TO STA. 226+00 RT

DETAIL 2
SPECIAL CUT DITCH
(Not to Scale)
Natural Ground, 3:1, D, 4:1 or Flatter, Front Ditch Slope
Min. D= 1.0 Ft.
FROM -L- STA. 238+50 TO STA. 239+50 LT
FROM -L- STA. 236+50 TO STA. 239+50 RT
FROM -Y17- STA. 11+75 TO STA. 12+19 RT

DETAIL 10
RIP RAP AT EMBANKMENT
(Not to Scale)
10'min., Ditch Grade, 1.5'
Type of Liner= Class 'I' Rip-Rap
FROM -L- STA. 228+32 RT

DETAIL 4
SPECIAL LATERAL BASE DITCH
(Not to Scale)
Natural Ground, 3:1, D, B, 4:1 or Flatter, Fill Slope
Min. D= 1.0 Ft.
B= 2.0 Ft.
FROM -L- STA. 225+50 TO STA. 226+75 LT
FROM -L- STA. 228+35 TO STA. 236+00 RT

PROJECT REFERENCE NO.	SHEET NO.
R-3830	EC-46/CONST.21
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

TGS ENGINEERS
804-C N. LAFAYETTE ST
SHELBY, NC 28150
PH (704) 476-0003
CORP. LICENSE NO.: C-0275

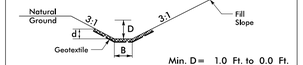
NAD 83 /NSRS 2007

-L-
PI Sta 249+46.76
△ = 20° 02' 09.1" (LT)
D = 0° 59' 16.3"
L = 2,028.21'
T = 1,024.57'
R = 5,800.00'
SE = 0.02
Lr = 66'

-Y18-
PI Sta 10+55.00
△ = 10° 17' 42.2" (LT)
D = 19° 05' 54.9"
L = 53.90'
T = 27.03'
R = 300.00'
SE = SEE PLANS

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

DETAIL 19
VAR. WIDTH SPECIAL LATERAL BASE DITCH
(Not to Scale)



Min. D = 1.0 Ft. to 0.0 Ft.
B = 0.0 Ft. to 8.0 Ft.
Type of Liner = Class 'I' Rip-Rap
FROM -L- STA. 249+53 TO STA. 250+00 LT

Place Matting for Erosion Control on Slope as Work Allows. -L- Sta. 248+50 to 249+50 LT

80 x 35 x 3
1.5 inch Skimmer
with 1.5 inch
Orifice Diameter
10 ft. weir
ID 21.3

MATCHLINE -L- STA. 239+50.00 SEE SHEET 20

MATCHLINE -L- STA. 253+00.00 SEE SHEET 22

240 245 250

155 ALFRED BENNY SLOAN, JR.

158 ALFRED BENNY SLOAN

159 JEANNE MCNEILL ELLINGTON AND CHRISTIE MCNEILL LAWLOR

160 JEANNE MCNEILL ELLINGTON AND CHRISTIE MCNEILL LAWLOR

156 LOIS M. SLOAN AND WIFE, GAIL P. SLOAN

157 BENDTSEN VOSS AND WIFE, CARRIE VOSS

215 TOWN OF BROADWAY

SPECIAL CUT DITCH SEE DETAIL 2

CLASS 'B' RIP-RAP
EST. 3 TON
GEOTEXTILE
EST. 10 SY

STANDARD BASE DITCH
SEE DETAIL 17
S=1.4%
L=50'
EST. 15 CY DDE

VAR. WIDTH SPECIAL LATERAL BASE DITCH
SEE DETAIL 19
CLASS 'I' RIP RAP
EST. 45 TON
GEOTEXTILE
EST. 79 CY

-L- POC Sta. 237+20.45=
-Y18- POT Sta. 10+00.00

S 12° 58' 59.0" W

-Y18- PC Sta. 10+27.91

-Y18- PT Sta. 10+81.88

END CONSTRUCTION
-Y18- POT 11+25.00

S 2° 41' 16.8" W
-Y18-

-Y18- POT Sta. 12+19.46

REMOVE 18" RCP

DO NOT DISTURB DOGWOOD TREE & FLOWERING SHRUBS

DAYLILIES & YELLOW BELLS (FORSYTHIA SHRUB) TO BE TRANSPLANTED

DO NOT DISTURB FAMILY PINE TREE & FLOWERING SHRUBS

TOWN OF BROADWAY SIGN TO BE RELOCATED BY OTHERS PRIOR TO CONSTRUCTION

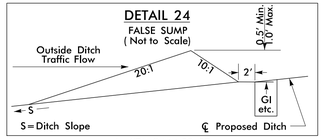
40 x 15 x 3
1.5 inch Skimmer
with 0.5 inch
Orifice Diameter
4 ft. weir
ID 21.1

50 x 15 x 3
1.5 inch Skimmer
with 0.625 inch
Orifice Diameter
4 ft. weir
ID 21.2

DETAIL 17
STANDARD BASE DITCH
(Not to Scale)

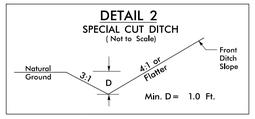
Min. D = 1.0 Ft.
B = 2.0 Ft.
-L- STA. 246+70 LT

DETAIL 24
FALSE SUMP
(Not to Scale)



-L- STA. 246+50 RT

DETAIL 2
SPECIAL CUT DITCH
(Not to Scale)



Min. D = 1.0 Ft.

FROM -Y18- STA. 10+36 TO STA. 11+10 RT
FROM -Y18- STA. 10+41 TO STA. 11+25 LT
FROM -L- STA. 247+52 TO STA. 253+00 RT
FROM -L- STA. 239+50 TO STA. 242+50 RT
FROM -L- STA. 250+00 TO STA. 253+00 LT
FROM -L- STA. 239+50 TO STA. 246+00 LT

SAFETY FENCE

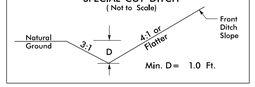
PROJECT REFERENCE NO.	SHEET NO.
R-3830	EC-47/CONST.22
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

TGS ENGINEERS
804-C N. LAFAYETTE ST
SHELBY, NC 28150
PH (704) 476-0003
CORP. LICENSE NO.: C-0275

NAD 83 /NSRS 2007

-L-
PI Sta 249+46.76
△ = 20° 02' 09.1" (LT)
D = 0° 59' 16.3"
L = 2,028.21'
T = 1,024.57'
R = 5,800.00'
SE = 0.02
Lr = 66'

DETAIL 2
SPECIAL CUT DITCH
(Not to Scale)



FROM -L- STA. 253+00 TO STA. 254+00 LT

-Y19- POT Sta. 10+00.00

BEGIN CONSTRUCTION
-Y19- POT 11+11.00

MATCHLINE -L- STA. 253+00.00
SEE SHEET 21

MATCHLINE -L- STA. 266+50.00
SEE SHEET 23

-L- POT Sta. 259+50.41

-L- POT Sta. 260+46.64=
-Y19- POT Sta. 12+39.43

JEANNE MCNEILL ELLINGTON AND CHRISTIE MCNEILL LAWLOR

RONALD S. BROWN III

KAREN T. THOMAS

SYLVIA T. LESLIE

CLIFTON H. PARKER AND HIS WIFE KATIE LUCILLE PARKER

WILSON MITCHELL MYERS AND WIFE, CYNTHIA DIANNE MYERS

DEBORAH A. KINDLE

JOSE ANTONIO CORNEJO

ANTHONY V. KEEN AND WIFE, SHARRI A. KEEN

JEANNE MCNEILL ELLINGTON AND CHRISTIE MCNEILL LAWLOR

HENRY DONNELL COORE, AND WIFE DEBRA B. COORE

LONNIE HOWELL FREEMAN

HENRY DONNELL COORE AND WIFE, DEBRA B. COORE

JUAN VIVAS

MARGARET T. JONES AND HUSBAND, BOBBY R. JONES

EUGENE DAVIS THOMAS

EUGENE DAVIS THOMAS

MICHAEL STEVE THOMAS

CLASS 'B' RIP-RAP
EST. 2 TONS
GEOTEXTILE
EST. 7 SY

SPECIAL CUT DITCH SEE DETAIL 2

100' LANE TRANSITION

REMOVE

15" RCP-IV

18" RCP-IV

FLOWABLE FILL

CLASS 'B' RIP-RAP
EST. 3 TONS
GEOTEXTILE
EST. 10 SY

DO NOT DISTURB SEPTIC AREA

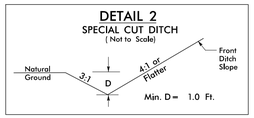
Place Matting for Erosion Control on Slope as Work Allows.
-L- Sta. 256+50 to 258+00 RT

PROJECT REFERENCE NO.	SHEET NO.
R-3830	EC-48/CONST.23
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

TGS ENGINEERS
804-C N. LAFAYETTE ST
SHELBY, NC 28150
PH (704) 476-0003
CORP. LICENSE NO.: C-0275

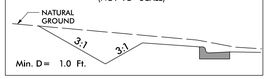
NAD 83 /NSRS 2007

DETAIL 2
SPECIAL CUT DITCH
(Not to Scale)



FROM -Y20- STA. 11+00 TO STA. 12+94 RT
FROM -Y20- STA. 11+00 TO STA. 13+00 LT

DETAIL 1
SPECIAL BACK OF CURB CUT DITCH
(NOT TO SCALE)



FROM -L- STA. 278+31 TO STA. 279+20 LT

-Y20-
PI Sta 12+22.92
△ = 48° 04' 43.1" (RT)
D = 22° 55' 05.9"
L = 209.78'
T = 111.51'
R = 250.00'
SE = SEE PLANS

-Y21-
PI Sta 10+96.09
△ = 6° 48' 28.6" (LT)
D = 7° 38' 22.0"
L = 89.12'
T = 44.61'
R = 750.00'
SE = SEE PLANS

① = -Y20- PT Sta. 13+21.19
② = -Y21- PT Sta. 11+40.59

-Y20- POT Sta. 10+00.00
BEGIN CONSTRUCTION
-Y20- POT 11+00.00
-Y20- PC Sta. 11+11.41

-Y21- POT Sta. 10+00.00
-Y21- PC Sta. 10+51.48

BEGIN CONSTRUCTION
-Y21- POC 10+70.00

SPECIAL CUT DITCH SEE DETAIL 2

SPECIAL BACK OF CURB CUT DITCH DETAIL 1

-L- POT Sta. 277+87.69=
-Y20- POT Sta. 13+47.09

-L- POT Sta. 279+65.19=
-Y21- POT Sta. 11+74.86

Place Matting for Erosion Control on Slope as Work Allows.
-L- Sta. 267+50 to 269+00 RT

100 x 50 x 3
2.0 inch Skimmer
with 1.875 inch
Orifice Diameter
19 ft. weir
ID 23.1

CLASS 'B' RIP-RAP
EST. 3 TONS
GEOTEXTILE
EST. 10 SY

MATCHLINE -L- STA. 266+50.00
SEE SHEET 22

MATCHLINE -L- STA. 280+50.00
SEE SHEET 24

PEDRO C. VILLAGOMEZ AND WIFE, DILIA B. VILLAGOMEZ (176)
BARRY N. DOWDY AND WIFE ELIZABETH N. DOWDY (177)
MARGARET A LEGGET (178)
DOROTHY S. KING (180)
JAMES A. BAILEY AND WIFE, JUDY T. BAILEY (181)
ANA C. PRINCE (182)
RENEE G. HUNTER (183)
JANET M. HARRINGTON (184)
JIMMY F. MCNEILL AND WIFE, CAROLYN L. MCNEILL (185)
COUNTY OF LEE (189)
FRANCES J. EDMONDS AND HUSBAND, ROBERT J. EDMONDS (190)
HAZEL GARY THOMAS
RANDIE L. PHILLIPS AND WIFE, LINDA G. PHILLIPS
MICHAEL STEVE THOMAS (174)
DAVID W. BERNARD AND WIFE, TONYA L. BERNARD (179)
FRANCES EDMONDS AND HUSBAND, ROBERT EDMONDS (186)
FRANCES EDMONDS AND HUSBAND, ROBERT EDMONDS (187)
ELIZABETH GAY MEISEL (188)
DOROTHY S. KING (191)

15" RCP-IV
18" RCP-IV
24" RCP-IV
2'-6" C&G
REMOVE
TSD
PUE
TUE
DUE
5' SIDEWALK
BEG. SIDEWALK +67.00 -L-
CULTIVATED FIELD
TREE NURSERY
GREEN HOUSE
ORCHARD
POOL
PUMP
ISBKD
S 89° 10' 01.9" E
S 0° 49' 58.1" W
S 47° 16' 44.0" E
S 7° 38' 26.7" W

PROJECT REFERENCE NO.	SHEET NO.
R-3830	EC-49/CONST.24
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

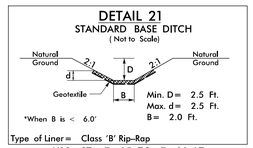
TGS ENGINEERS
804-C N. LAFAYETTE ST
SHELBY, NC 28150
PH (704) 476-0003
CORP. LICENSE NO.: C-0275

NAD 83 /NSRS 2007

-L-
PI Sta 287+97.96
△ = 26° 23' 54.3" (RT)
D = 6° 11' 14.8"
L = 426.64'
T = 217.18'
R = 926.00'
SE = 0.04
Lr = 132'

① = -L- POC Sta.288+63.17= -Y22- POT Sta. 11+71.73

DETAIL 21
STANDARD BASE DITCH
(Not to Scale)



Type of Liner = Class 'B' Rip-Rap

-Y22- STA. 7+35 TO 7+80 LT
-Y22- STA. 9+95 TO 10+50 RT

COORDINATE PIPE INSTALLATION WITH FIRE DEPARTMENT

80 x 40 x 3
2.0 inch Skimmer
with 1.625 inch
Orifice Diameter
12 ft. weir
ID 24.1

90 x 45 x 3
2.0 inch Skimmer
with 1.75 inch
Orifice Diameter
14 ft. weir
ID 24.2

IN LIEU OF ROCK INLET SEDIMENT TRAP TYPE C, UTILIZE FABRIC INSERT INLET PROTECTION DEVICES IN AREAS WHERE WATER MAY POND ON ROAD OPEN TO LIVE TRAFFIC.

-L- PC Sta. 285+80.78

-L- PT Sta. 290+07.43

-Y22- POT Sta. 6+25.00

-Y23- POT Sta. 10+00.00

-L- POT Sta.293+54.06= -Y23- POT Sta. 12+27.07

MATCHLINE -L- STA. 280+50.00 SEE SHEET 23

MATCHLINE -L- STA. 294+50.00 SEE SHEET 25

S 89°10'019" E

S 24°10'543" W

190 FRANCES A. EDMONDS AND HUSBAND, ROBERT J. EDMONDS

193 JAMES W. KING, AND WIFE, DOROTHY S. KING

194 DOROTHY S. KING

196 CAPE FEAR RURAL FIRE DEPARTMENT, INC.

202 ROBERT ALFORD JONES

206 WORNOM & PERKINS, L.L.C.

191 DOROTHY S. KING

199 FRANK W. MCDONALD AND SUZANNE B. MCDONALD, HUSBAND AND WIFE

200 PAYLINK LLC

201 LORI SAUNDERS ANDREWS AND DONALD FRANKLIN ANDREWS, JR

204 FIRST BANK

205 PARK OIL COMPANY, INC.

195 MRS. D.O. HARRINGTON (HEIRS)

LOGAN RAMSEY · DANIEL MCINNIS · DONALD SIMPSON · ADOLFO POPOCA · CATHERINE WADE · PETER HEDGES · JOHN DEVAN

STANDARD BASE DITCH
SEE DETAIL 21
S=1.2%
L=55'
EST. 15 CY DDE
CLASS 'B' RIP-RAP
EST. 40 TONS
GEOTEXTILE
EST. 95 SY

STANDARD BASE DITCH
SEE DETAIL 21
S=2.0%
L=45'
EST. 15 CY DDE
CLASS 'B' RIP-RAP
EST. 40 TONS
GEOTEXTILE
EST. 95 SY

END SIDEWALK
END 2'-6" C&G
TIE TO EXIST

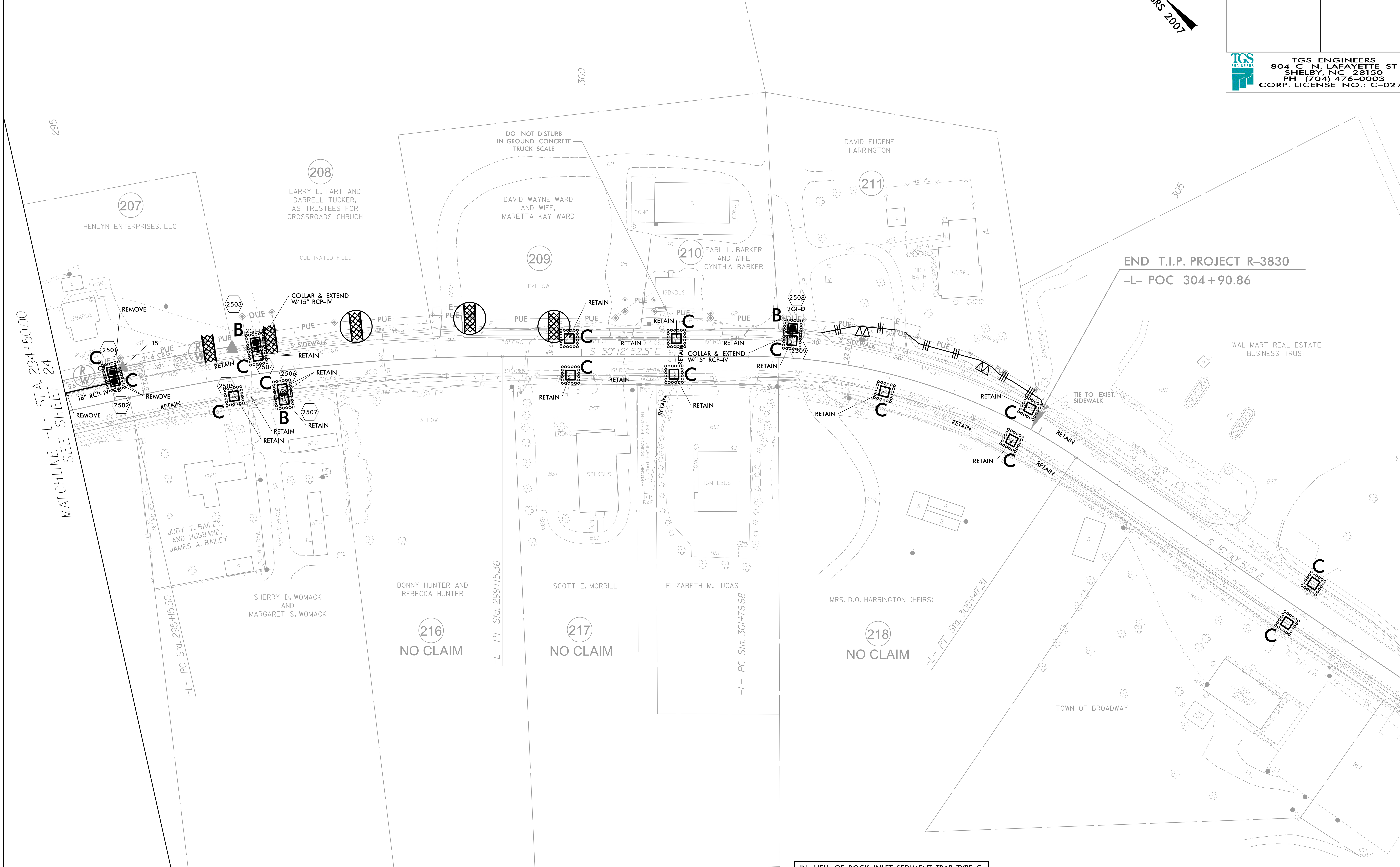
CULTIVATED FIELD

PROJECT REFERENCE NO.	SHEET NO.
R-3830	EC-50/CONST.25
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

TGS ENGINEERS
804-C N. LAFAYETTE ST
SHELBY, NC 28150
PH (704) 476-0003
CORP. LICENSE NO.: C-0275

-L-

PI Sta 297+16.24	PI Sta 303+67.70
Δ = 12° 33′ 15.1″ (RT)	Δ = 34° 12′ 01.0″ (RT)
D = 3° 08′ 22.7″	D = 9° 13′ 38.9″
L = 399.86′	L = 370.64′
T = 200.73′	T = 191.02′
R = 1,824.91′	R = 620.93′



NAD 83 /NSRS 2007
MATCHLINE -L- STA. 294+50.00
SEE SHEET 24
END T.I.P. PROJECT R-3830
-L- POC 304+90.86
207
HENLYN ENTERPRISES, LLC
208
LARRY L. TART AND
DARRELL TUCKER,
AS TRUSTEES FOR
CROSSROADS CHRUCH
209
DAVID WAYNE WARD
AND WIFE,
MARETTA KAY WARD
DO NOT DISTURB
IN-GROUND CONCRETE
TRUCK SCALE
210
EARL L. BARKER
AND WIFE
CYNTHIA BARKER
211
DAVID EUGENE
HARRINGTON
WAL-MART REAL ESTATE
BUSINESS TRUST
JUDY T. BAILEY,
AND HUSBAND,
JAMES A. BAILEY
SHERRY D. WOMACK
AND
MARGARET S. WOMACK
DONNY HUNTER AND
REBECCA HUNTER
216
NO CLAIM
SCOTT E. MORRILL
217
NO CLAIM
ELIZABETH M. LUCAS
MRS. D.O. HARRINGTON (HEIRS)
218
NO CLAIM
TOWN OF BROADWAY
-L- PC Sta. 295+15.50
-L- PT Sta. 299+15.36
-L- PC Sta. 301+76.68
-L- PT Sta. 305+47.31
S 50° 12′ 52.5″ E
S 16° 00′ 51.5″ E
COLLAR & EXTEND W/ 15″ RCP-IV
TIE TO EXIST. SIDEWALK
5′ SIDEWALK
REMOVE
RETAIN
18″ RCP-IV
2501
2502
2503
2504
2505
2506
2507
2508
2509
2GI-D
295
300
305

IN LIEU OF ROCK INLET SEDIMENT TRAP TYPE C, UTILIZE FABRIC INSERT INLET PROTECTION DEVICES IN AREAS WHERE WATER MAY POND ON ROAD OPEN TO LIVE TRAFFIC.

PROJECT REFERENCE NO.	SHEET NO.
R-3830	EC-51/CONST.26
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

TGS ENGINEERS
804-C N. LAFAYETTE ST
SHELBY, NC 28150
PH (704) 476-0003
CORP. LICENSE NO.: C-0275

NAD 83 /NSRS 2007

-Y5-
PI Sta 16+63.28
Δ = 0° 33' 05.7" (RT)
D = 0° 19' 06.4"
L = 173.21'
T = 86.61'
R = 17,992.44'
SE = SEE PLANS

MATCHLINE -Y5- STA 13+50.00
SEE SHEET 06

BRITNEY A. ELLIS
AND HUSBAND,
TRAVIS ELLIS

KEEPSAFE
MINI-STORAGE, LLC

30
CHARLES OLDHAM, III

END CONSTRUCTION
-Y5- POC 16+40.00

187.5' TAPER
100' TAPER
WD POST & CHAIN
EXISTING R/W
LT
T FO
4' FDPS
S 20° 15' 23.5" E
-Y5-
SR 1520 ROSSER RD
BST
4' FDPS
EXISTING R/W
E
BST
36" WD RAIL
25' BST

-Y5- PC Sta. 15+76.68
-Y5- PT Sta. 17+49.89

27
D. DURAN JOHNSON
AND WIFE,
SHARON A. JOHNSON

22
TYSON FOODS, INC.

UPGRADE EXISTING
SIGNAL

PROJECT REFERENCE NO.	SHEET NO.
R-3830	EC-52/CONST.27
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

TGS ENGINEERS
804-C N. LAFAYETTE ST
SHELBY, NC 28150
PH (704) 476-0003
CORP. LICENSE NO.: C-0275

NAD 83 /NSRS 2007

-Y13-
PI Sta 11+54.71
△ = 44° 10' 17.0" (LT)
D = 19° 05' 54.9"
L = 231.28'
T = 121.73'
R = 300.00'
SE = SEE PLANS

PI Sta 22+03.97
△ = 0° 10' 23.4" (LT)
D = 0° 17' 11.3"
L = 60.44'
T = 30.22'
R = 20,000.00'

90
HARRINGTON COMPANIES, LLC

212
GNY PROPERTIES, LLC.

213
MOEN, INC.

END GRADE
BEGIN RESURFACING
-Y13- POT STA.16+25.00

-Y13- POT Sta. 26+50.97
END CONSTRUCTION
END RESURFACING
-Y13- POT STA.26+10.00

MATCHLINE -Y13- STA.12+50.00
SEE SHEET 12

-Y13- PT Sta. 12+64.26

-Y13- PC Sta. 21+73.75

-Y13- PT Sta. 22+34.19

86
COTY INC.

Place Matting for Erosion Control
on Slope as Work Allows.
-Y13- Sta. 10+50 to 14+25 RT