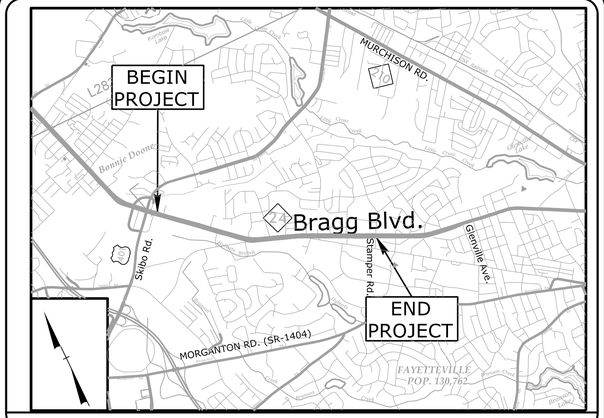
TIP PROJECT: U-6229



VICINITY MAP
NOT TO SCALE

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

PLAN FOR PROPOSED
HIGHWAY EROSION CONTROL

CUMBERLAND COUNTY

LOCATION: NC–24, BRAGG BOULEVARD FROM US–401 (SKIBO ROAD) TO WINSTON AVENUE

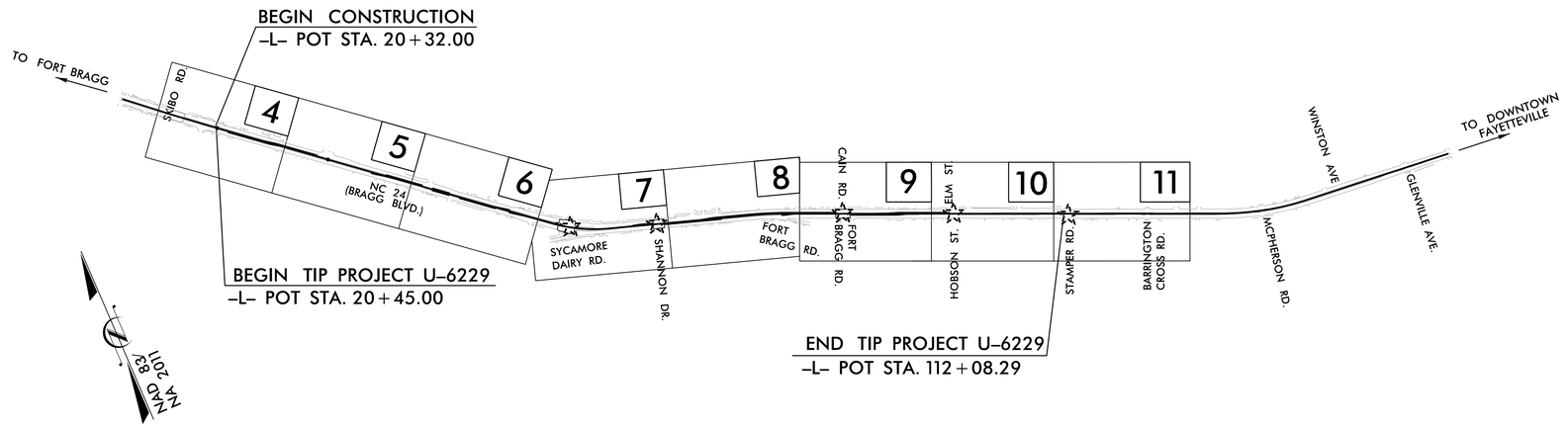
TYPE OF WORK: MEDIAN AND GUARDRAIL REPLACEMENT, ADD PEDESTRIAN SIGNALS, DRAINAGE

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	U-6229	EC-1	
STATE PROJ. NO.	F. A. PROJ. NO.	DESCRIPTION	
48808.1.1	HSIP–0024(084)	PE	

EROSION AND SEDIMENT CONTROL MEASURES

Std. #	Description	Symbol
1630.03	Temporary Silt Ditch	TSD
1630.05	Temporary Diversion	TD
1605.01	Temporary Silt Fence	
1606.01	Special Sediment Control Fence	
1622.01	Temporary Berms and Slope Drains	
1630.02	Silt Basin Type B	
1633.01	Temporary Rock Silt Check Type-A	
	Temporary Rock Silt Check Type-A with Matting and Polyacrylamide (PAM)	
1633.02	Temporary Rock Silt Check Type-B	
	Wattle / Coir Fiber Wattle	EW CFW
	Wattle / Coir Fiber Wattle with Polyacrylamide (PAM)	
1634.01	Temporary Rock Sediment Dam Type-A	
1634.02	Temporary Rock Sediment Dam Type-B	
1635.01	Rock Pipe Inlet Sediment Trap Type-A	
1635.02	Rock Pipe Inlet Sediment Trap Type-B	
1630.04	Stilling Basin	
1630.06	Special Stilling Basin	
	Rock Inlet Sediment Trap:	
1632.01	Type A	A
1632.02	Type B	B
1632.03	Type C	C
	Skimmer Basin	
	Tiered Skimmer Basin	
	Infiltration Basin	

THIS PROJECT CONTAINS EROSION CONTROL PLANS FOR CLEARING AND GRUBBING PHASE OF CONSTRUCTION.



GRAPHIC SCALE

50 25 0 50 100
PLANS

THESE EROSION AND SEDIMENT CONTROL PLANS COMPLY WITH THE APPLICABLE REGULATIONS SET FORTH BY THE NCG–010000 GENERAL CONSTRUCTION PERMIT EFFECTIVE APRIL 1, 2019 AND ISSUED BY THE NORTH CAROLINA DEPARTMENT OF ENVIRONMENTAL QUALITY DIVISION OF WATER RESOURCES.

VHB Engineering NC, P.C. (C-3705)
940 Main Campus Drive, Suite 500
Raleigh, NC 27606

Prepared in the Office of:

VHB Engineering NC, P.C. (C-3705)
940 Main Campus Drive, Suite 500
Raleigh, NC 27606

Designed by:

BRANDON BARHAM, PE ***3368***
NAME *LEVEL III CERTIFICATION NO.*

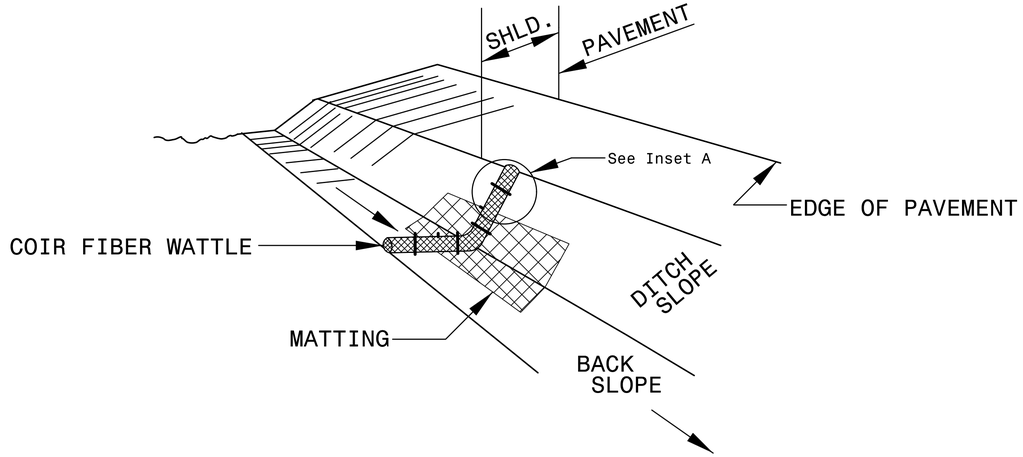
Roadway Standard Drawings

The following roadway english standards as appear in "Roadway Standard Drawings"– Roadway Design Unit – N. C. Department of Transportation – Raleigh, N. C., dated January 2018 and the latest revison thereto are applicable to this project and by reference hereby are considered a part of these plans.

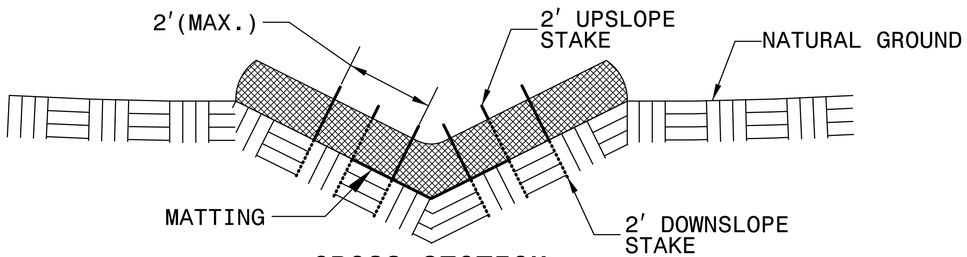
1604.01	Railroad Erosion Control Detail	1632.01	Rock Inlet Sediment Trap Type A
1605.01	Temporary Silt Fence	1632.02	Rock Inlet Sediment Trap Type B
1606.01	Special Sediment Control Fence	1632.03	Rock Inlet Sediment Trap Type C
1607.01	Gravel Construction Entrance	1633.01	Temporary Rock Silt Check Type A
1622.01	Temporary Berms and Slope Drains	1633.02	Temporary Rock Silt Check Type B
1630.01	Riser Basin	1634.01	Temporary Rock Sediment Dam Type A
1630.02	Silt Basin Type B	1634.02	Temporary Rock Sediment Dam Type B
1630.03	Temporary Silt Ditch	1635.01	Rock Pipe Inlet Sediment Trap Type A
1630.04	Stilling Basin	1635.02	Rock Pipe Inlet Sediment Trap Type B
1630.05	Temporary Diversion	1640.01	Coir Fiber Baffle
1630.06	Special Stilling Basin	1645.01	Temporary Stream Crossing
1631.01	Matting Installation		

PROJECT REFERENCE NO.	SHEET NO.
U-6229	EC-2
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

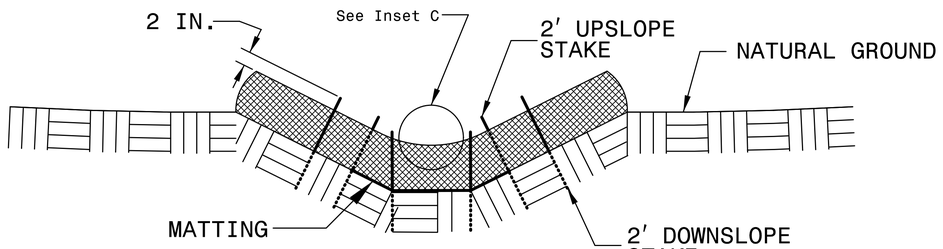
COIR FIBER WATTLE WITH POLYACRYLAMIDE (PAM) DETAIL



ISOMETRIC VIEW



CROSS SECTION VEE DITCH



CROSS SECTION TRAPEZOIDAL DITCH

NOTES:

USE MINIMUM 12 IN. DIAMETER COIR FIBER (COCONUT FIBER) WATTLE.

USE 2 FT. WOODEN STAKES WITH A 2 IN. BY 2 IN. NOMINAL CROSS SECTION.

ONLY INSTALL WATTLE(S) TO A HEIGHT IN DITCH SO FLOW WILL NOT WASH AROUND WATTLE AND SCOUR DITCH SLOPES AND AS DIRECTED.

INSTALL A MINIMUM OF 2 UPSLOPE STAKES AND 4 DOWNSLOPE STAKES AT AN ANGLE TO WEDGE WATTLE TO BOTTOM OF DITCH.

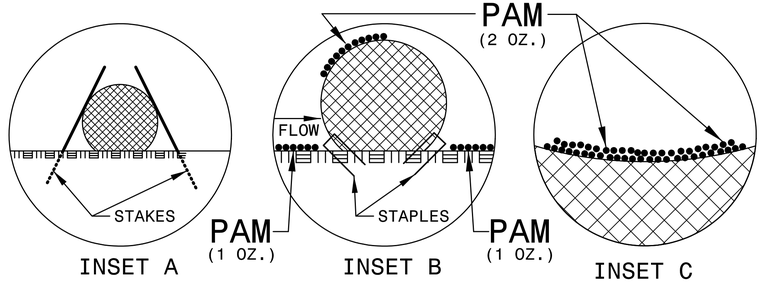
PROVIDE STAPLES MADE OF 0.125 IN. DIAMETER STEEL WIRE FORMED INTO A U SHAPE NOT LESS THAN 12″ IN LENGTH.

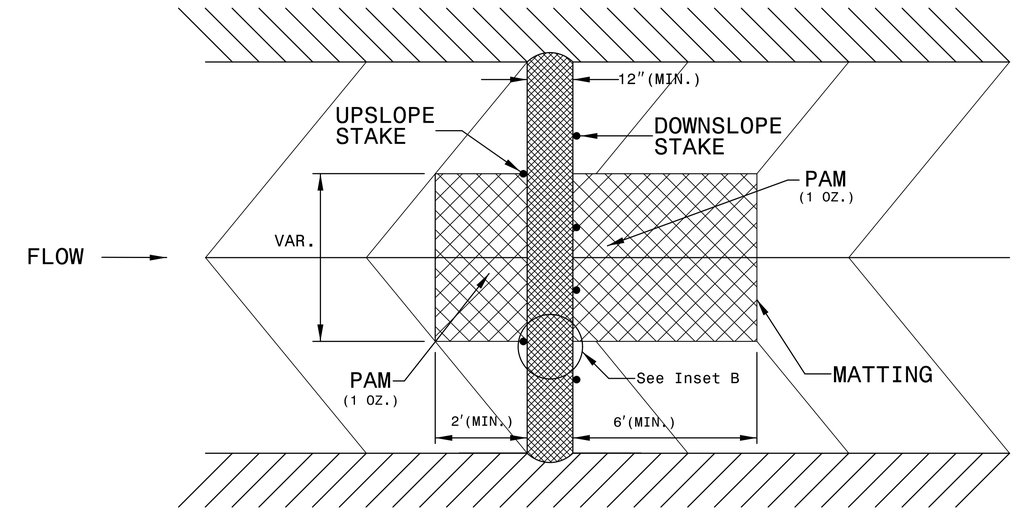
INSTALL STAPLES APPROXIMATELY EVERY 1 LINEAR FOOT ON BOTH SIDES OF WATTLE AND AT EACH END TO SECURE IT TO THE SOIL.

INSTALL MATTING IN ACCORDANCE WITH SECTION 1631 OF THE STANDARD SPECIFICATIONS.

PRIOR TO POLYACRYLAMIDE (PAM) APPLICATION, OBTAIN A SOIL SAMPLE FROM PROJECT LOCATION, AND FROM OFFSITE MATERIAL, AND ANALYZE FOR APPROPRIATE PAM FLOCCULANT TO BE APPLIED TO EACH WATTLE.

INITIALLY APPLY 2 OUNCES OF ANIONIC OR NEUTRALLY CHARGED PAM OVER WATTLE WHERE WATER WILL FLOW AND 1 OUNCE OF PAM ON MATTING ON EACH SIDE OF WATTLE. REAPPLY PAM AFTER EVERY RAINFALL EVENT THAT IS EQUAL TO OR EXCEEDS 0.50 IN.





TOP VIEW

PROJECT REFERENCE NO.	SHEET NO.
U-6229	EC-3
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

DIVISION OF HIGHWAYS
STATE OF NORTH CAROLINA

SOIL STABILIZATION TIMEFRAMES

SITE DESCRIPTION	STABILIZATION TIME	TIMEFRAME EXCEPTIONS
PERIMETER DIKES, SWALES, DITCHES AND SLOPES	7 DAYS	NONE
HIGH QUALITY WATER (HQW) ZONES	7 DAYS	NONE
SLOPES STEEPER THAN 3:1	7 DAYS	IF SLOPES ARE 10' OR LESS IN LENGTH AND ARE NOT STEEPER THAN 2:1, 14 DAYS ARE ALLOWED.
SLOPES 3:1 OR FLATTER	14 DAYS	7 DAYS FOR SLOPES GREATER THAN 50' IN LENGTH.
ALL OTHER AREAS WITH SLOPES FLATTER THAN 4:1	14 DAYS	NONE, EXCEPT FOR PERIMETERS AND HQW ZONES.

8/17/99

PROJECT REFERENCE NO.	SHEET NO.
U-6229	EC-04/CONST.04
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

CLEARING AND GRUBBING EROSION CONTROL FOR CONSTRUCTION SHEET 4

INSTALL FABRIC INSERT INLET PROTECTION DEVICE IN LIEU OF ROCK INLET SEDIMENT TRAP TYPE 'C' AS DIRECTED TO AVOID PONDING OF RUNOFF IN ROADWAY OPEN TO PUBLIC TRAFFIC

MILLING AND RESURFACING LIMITS

NAD 83/NA 2011

BEGIN TIP PROJECT U-6229
-L- POT STA. 20+45.00

PRC Sta. 16+97.85

PC Sta. 15+28.53

15+00

20+00

25+00

CECIL M. COATES, ET UX
DB 8337 PG 310
DB 2854 PG 179

MVC COMMERCIAL REAL ESTATE LLC
DB 8424 PG 159
DB 9735 PG 634

MVC COMMERCIAL REAL ESTATE LLC
DB 9949 PG 298
PB 91PG 159

VALLEY INVESTMENTS INC
DB 4514 PG 587
PB 91PG 159

VALLEY INVESTMENTS INC
DB 3395 PG 443
PB 88 PG 114

VALLEY INVESTMENTS INC
DB 2842 PG 225
PB 88 PG 114

S 47° 52' 29.6" E

S 48° 30' 55.1" E

100' RIGHT TURN (EXISTING)

135' TAPER (EXISTING)

150' TAPER

375' LEFT TURN

RETAIN SYSTEM

RETAIN EXISTING GUARDRAIL

REMOVE EXISTING GUARDRAIL

MONOLITHIC CONC. ISLAND

IA-MASH TL-3

REMOVE +/-4' 15" RCP

REMOVE +/-4' 15" RCP

2'-9" C&G

TB JB w/MH

TB 2GI

15" RCP-IV

15" RCP-III

18" RCP-IV

18" RCP-III

PT Sta. 17+47.02

PT Sta. 19+88.36

PC Sta. 19+43.65

BEGIN CONSTRUCTION
-L- POT STA. 20+32.00

MATCHLINE -L- STA. 28+00.00
SEE SHEET 5

FOR CONCRETE ISLAND DETAIL SEE SHEET 2B-1

-L- CURVE DATA

PI Sta 16+13.20
△ = 1° 56' 25.0" (LT)
D = 1° 08' 45.3"
L = 169.32'
T = 84.67'
R = 5,000.00'
SE = NA

PI Sta 17+22.44
△ = 0° 56' 20.6" (RT)
D = 1° 54' 35.5"
L = 49.17'
T = 24.58'
R = 3,000.00'
SE = NA

PI Sta 19+66.01
△ = 0° 38' 25.5" (LT)
D = 1° 25' 56.6"
L = 44.71'
T = 22.36'
R = 4,000.00'
SE = NA

NOTE: LIMITED PEDESTRIAN CROSSWALK LOCATIONS WERE SCOPED AS PART OF THIS PROJECT DUE TO PROJECT FUNDING.

NOTE: LIMITED DRAINAGE DESIGN WAS SCOPED FOR THIS PROJECT DUE TO FUNDING. THE PROPOSED DRAINAGE DESIGN DOES NOT MEET NCDOT HYDRAULICS DESIGN STANDARDS FOR PIPE CAPACITY AND SPREAD AT VARIOUS LOCATIONS.

8/17/99

PROJECT REFERENCE NO.	SHEET NO.
U-6229	EC-05/CONST.05
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

CLEARING AND GRUBBING EROSION CONTROL FOR CONSTRUCTION SHEET 5

INSTALL FABRIC INSERT INLET PROTECTION DEVICE IN LIEU OF ROCK INLET SEDIMENT TRAP TYPE 'C' AS DIRECTED TO AVOID PONDING OF RUNOFF IN ROADWAY OPEN TO PUBLIC TRAFFIC

NAD 83/NA 2011

MATCHLINE -L- STA. 28+00.00 SEE SHEET 4

MATCHLINE -L- STA. 42+00.00 SEE SHEET 6

RETAIN SYSTEM

150' RIGHT TURN (EXISTING)

100' TAPER (EXISTING)

RETAIN

MONOLITHIC CONC. ISLAND

END PROPOSED DOUBLE FACED GUARDRAIL CONNECT TO EXISTING GUARDRAIL

CONCRETE MOUNTABLE MEDIAN SEE STD. DWG. 852.02

30+00

35+00

40+00

BEGIN 2'-9" C&G

PROPOSED DOUBLE FACED GUARDRAIL

END EXISTING GUARDRAIL

RETAIN EXISTING GUARDRAIL

REMOVE EXISTING GUARDRAIL

REMOVE +/-4' 18" RCP

IA-MASH TL-3

S 48° 30' 55.1" E

N 41°28'11" E 265.00'

375' LEFT TURN

105'

150' TAPER

375' LEFT TURN

BM2 ELEVATION = 232.50
N 485106 E 2016111
BL STATION 39+41.00 7 LEFT
PK NAIL IN CONC CURB

MILLING AND RESURFACING LIMITS

FOR CONCRETE ISLAND DETAIL SEE SHEET 2B-1

U-6229_AM
H:\TEL\Environmental\Design\PSH\U6229_REU_EC_PSH05_CG.dgn
ccollender

8/17/99

PROJECT REFERENCE NO.	SHEET NO.
U-6229	EC-06/CONST.06
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

CLEARING AND GRUBBING EROSION CONTROL FOR CONSTRUCTION SHEET 6

INSTALL FABRIC INSERT INLET PROTECTION DEVICE IN LIEU OF ROCK INLET SEDIMENT TRAP TYPE 'C' AS DIRECTED TO AVOID PONDING OF RUNOFF IN ROADWAY OPEN TO PUBLIC TRAFFIC

NAD 83/NA 2011

MATCHLINE -L- STA. 42+00.00 SEE SHEET 5

MATCHLINE -L- STA. 56+00.00 SEE SHEET 7

MANAGED DEVELOPMENT FAYETTEVILLE LLC
DB 7079 PG 401
PB 115 PG 163

3701 LIMITED PARTNERSHIP
DB 7079 PG 417
PB 115 PG 163

NSA PROPERTY HOLDINGS LLC
DB 9771 PG 791
PB 123 PG 20

OCT 2 LLC
DB 10177 PG 760

ROSEMYR CORPORATION & H H C CO INC
DB 4025 PG 84

ROSEMYR CORPORATION & H H C CO INC
DB 3787 PG 334

SAP-II YSI "I LLC
DB 8558 PG 437
PB 81 PG 30

AGREE STORES LLC
DB 10615 PG 60
PB 104 PG 77

R & W PIZZA HUTS OF NC
DB 3892 PG 785
PB 81 PG 30

MCDONALDS CORPORATION
DB 3611 PG 244
PB 73 PG 75

140' RIGHT TURN (EXISTING)

100' TAPER (EXISTING)

375' LEFT TURN

105'

150' TAPER

400' LEFT TURN

70' RIGHT TURN (EXISTING)

MEDIAN V DITCH SLOPE = 0.3% SEE DETAIL 1

MEDIAN V DITCH SLOPE = 0.5% SEE DETAIL 1

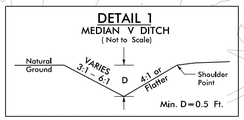
MONOLITHIC CONC. ISLAND

REMOVE EXISTING GUARDRAIL

REMOVE AND REPLACE EXISTING GUARDRAIL

55+00 PROPOSED DOUBLE FACED GUARDRAIL

DETAIL 1
MEDIAN 'V' DITCH
(Not to Scale)



FROM STA. 52+00 TO STA. 57+75 -L- MED

BM3 ELEVATION = 229.93
N 483623 E 2017773
BL STATION 61+68.00 4 RIGHT
PK NAIL IN CONC CURB

MILLING AND RESURFACING LIMITS

FOR CONCRETE ISLAND DETAIL SEE SHEET 2B-1

U-6229_Environmental\Design\PSH\U6229_REV_EC_PSH06_CG.dgn
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8/17/99

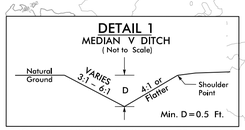
PROJECT REFERENCE NO.	SHEET NO.
U-6229	EC-07/CONST.07
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

CLEARING AND GRUBBING EROSION CONTROL FOR CONSTRUCTION SHEET 7

INSTALL FABRIC INSERT INLET PROTECTION DEVICE IN LIEU OF ROCK INLET SEDIMENT TRAP TYPE 'C' AS DIRECTED TO AVOID PONDING OF RUNOFF IN ROADWAY OPEN TO PUBLIC TRAFFIC

NAD 83/NSRS 2007

DETAIL 1
MEDIAN V DITCH
(Not to Scale)



FROM STA. 52+00 TO STA. 57+75 -L- MED

AGREE STORES
DB 10615 PG 60
PB 104 PG 77

R & W PIZZA HUTS OF NC
DB 3892 PG 785
PB 81PG 30

PC Sta. 57+43.07

DONUT INVESTMENT PARTNERS LLC
DB 10388 PG 113
PB 81PG 30

NASSIMI AMSTERDAM DEVELOPMENT LP
DB 7263 PG 367
PB 95 PG 142

60+00

65+00

PT Sta. 63+62.83

NASSIMI AMSTERDAM DEVELOPMENT LP
DB 7259 PG 491
PB 95 PG 142

SISTERS MANAGEMENT LLC
DB 8844 PG 178
PB 95 PG 142

70+00

MATCHLINE -L- STA. 56+00.00
SEE SHEET 6

MATCHLINE -L- STA. 70+00.00
SEE SHEET 8

PROPOSED DOUBLE FACED GUARDRAIL

S 48° 30' 55.1" E

250' LEFT TURN

100' TAPER

150' TAPER

400' LEFT TURN

405' LEFT TURN

MCDONALDS CORPORATION
DB 3611 PG 244
PB 73 PG 75

KELLY & KELLY INVESTMENTS INC
DB 7976 PG 7
DB 6668 PG 307
PB 109 PG 18

MEDIAN V DITCH SLOPE=0.4% SEE DETAIL 1

MONOLITHIC CONC. ISLAND

FILL WITH FLOWABLE FILL

REMOVE EXISTING GUARDRAIL

BEGIN 2'-9" C&G

2'-9" C&G

S 69° 42' 55.1" E

-L- CURVE DATA

PI Sta 60+56.53
Δ = 21° 12' 00.0" (LT)
D = 3° 25' 14.3"
L = 619.77'
T = 313.47'
R = 1,675.00'
SE = NA

MILLING AND RESURFACING LIMITS

EXISTING SIGNAL TO BE MODIFIED

FOR CONCRETE ISLAND DETAIL SEE SHEET 2B-2

8/17/99

PROJECT REFERENCE NO.	SHEET NO.
U-6229	EC-08/CONST.08
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

CLEARING AND GRUBBING EROSION CONTROL FOR CONSTRUCTION SHEET 8

INSTALL FABRIC INSERT INLET PROTECTION DEVICE IN LIEU OF ROCK INLET SEDIMENT TRAP TYPE 'C' AS DIRECTED TO AVOID PONDING OF RUNOFF IN ROADWAY OPEN TO PUBLIC TRAFFIC

NAD 83/NA 2011

MATCHLINE -L- STA. 70+00.00 SEE SHEET 7

MATCHLINE -L- STA. 84+00.00 SEE SHEET 9

SISTERS MANAGEMENT LLC DB 8844 PG 178 PB 95 PG 142

NASSIMI AMSTERDAM DEVELOPMENT LP DB 7259 PG 491 PB 95 PG 142

GILLILAND, LYMAN C JR, ET UX, TRUSTEES DB 7349 PG 821 PB 95 PG 142

BROADSTONE KKD PORTFOLIO LLC DB 10279 PG 93

25' ACCESS EASEMENT N 65°24'38" W 223.14'

70+00 75+00 80+00

400' LEFT TURN

150' TAPER

RETAIN SYSTEM

15" RCP-IV

TB 2GI

REMOVE DI AND +/- 6' 30" RCP

REMOVE

REMOVE EXISTING GUARDRAIL

2'-9" C&G

END 2'-9" C&G

2GI PROPOSED DOUBLE FACED GUARDRAIL

DO NOT DISTURB EXISTING GUARDRAIL

END PROPOSED DOUBLE FACED GUARDRAIL CONNECT TO EXISTING GUARDRAIL

REMOVE EXISTING ASPHALT PAVEMENT

GRADE TO DRAIN

RETAIN EXISTING GUARDRAIL

END EXISTING GUARDRAIL

CONCRETE ISLAND COVER SEE STD. DWG. 852.10

1'-6" C&G

TA-MASH TL-3

S 69°42' 55.1" E -L-

S 64° 27' 00.6" E

PC Sta. 78+76.24

PT Sta. 82+46.11

BM4 ELEVATION = 225.20
N 482681 E 2019752
BL STATION 83+80.00 0 RIGHT
PK NAIL IN CONC CURB

MILLING AND RESURFACING LIMITS

EXISTING SIGNAL TO BE MODIFIED

-L- CURVE DATA

PI Sta 80+61.31
Δ = 5°15' 54.6" (RT)
D = 1° 25' 24.6"
L = 369.87'
T = 185.07'
R = 4,025.00'
SE = NA

8/17/99

PROJECT REFERENCE NO.	SHEET NO.
U-6229	EC-09/CONST.09
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

CLEARING AND GRUBBING EROSION CONTROL FOR CONSTRUCTION SHEET 9

INSTALL FABRIC INSERT INLET PROTECTION DEVICE IN LIEU OF ROCK INLET SEDIMENT TRAP TYPE 'C' AS DIRECTED TO AVOID PONDING OF RUNOFF IN ROADWAY OPEN TO PUBLIC TRAFFIC

NAD 83/NA 2011

MATCHLINE –L– STA. 84+00.00 SEE SHEET 8

MATCHLINE –L– STA. 98+00.00 SEE SHEET 10

85+00

90+00

95+00

RETAIN

RETAIN SYSTEM

CONCRETE ISLAND COVER SEE STD. DWG. 852.10

400' LEFT TURN

150' TAPER

200' TAPER

350' DUAL LEFT TURN

REMOVE EXISTING GUARDRAIL

BEGIN 2'–9" C&G

END 2'–9" C&G

BEGIN 1'–6" C&G

END 1'–6" C&G

2'–9" C&G

1'–6" C&G

15" RCP–IV

15" RCP–III

TB 2GI

S 64° 27' 00.6" E

MONOLITHIC CONC. ISLAND

MILLING AND RESURFACING LIMITS

8/17/99

PROJECT REFERENCE NO.	SHEET NO.
U-6229	EC-10/CONST.10
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

CLEARING AND GRUBBING EROSION CONTROL FOR CONSTRUCTION SHEET 10

INSTALL FABRIC INSERT INLET PROTECTION DEVICE IN LIEU OF ROCK INLET SEDIMENT TRAP TYPE 'C' AS DIRECTED TO AVOID PONDING OF RUNOFF IN ROADWAY OPEN TO PUBLIC TRAFFIC

NAD 83/NA 2011

MATCHLINE -L- STA. 98+00.00 SEE SHEET 9

MATCHLINE -L- STA. 111+00.00 SEE SHEET 11

RETAIN SYSTEM

CONCRETE ISLAND COVER SEE STD. DWG. 852.10

1'-6" C&G

TB 2GI

3' R

MONOLITHIC CONC. ISLAND

15" RCP-IV

2'-9" C&G

9.5' R

350' DUAL LEFT TURN

100+00

105+00

110+00

-L-

-EL-

S 64°27'00.6" E

BM5 ELEVATION = 202.43
N 481749 E 2021778
BL STATION 106+17.00 3 LEFT
PK NAIL IN CONC CURB

MILLING AND RESURFACING LIMITS

EXISTING SIGNAL TO BE MODIFIED

U-6229_REU_EC_PSH10_CG.dgn
Environmental\Design\PSH\U6229_REU_EC_PSH10_CG.dgn
11:28:24 AM

8/17/99

PROJECT REFERENCE NO.	SHEET NO.
U-6229	EC-11/CONST.11
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

CLEARING AND GRUBBING EROSION CONTROL FOR CONSTRUCTION SHEET 11

INSTALL FABRIC INSERT INLET PROTECTION DEVICE IN LIEU OF ROCK INLET SEDIMENT TRAP TYPE 'C' AS DIRECTED TO AVOID PONDING OF RUNOFF IN ROADWAY OPEN TO PUBLIC TRAFFIC

NAD 83/NA 2011

END TIP PROJECT U-6229
-L- POT STA. 112+08.29

MATCHLINE -L- STA. 111+00.00
SEE SHEET 10

115+00

120+00

125

-L-

S 64°27'00.6" E

MONOLITHIC CONC. ISLAND

RETAIN

RETAIN SYSTEM

BMK ELEVATION = 203.09
N 480770 E 2023826
BL STATION 128+88.00 4 LEFT
PK NAIL IN CONC CURB

MILLING AND RESURFACING LIMITS

EXISTING SIGNAL TO BE MODIFIED

8/17/99

PROJECT REFERENCE NO.	SHEET NO.
U-6229	EC-12/CONST.04
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

INSTALL FABRIC INSERT INLET PROTECTION DEVICE IN LIEU OF ROCK INLET SEDIMENT TRAP TYPE 'C' AS DIRECTED TO AVOID PONDING OF RUNOFF IN ROADWAY OPEN TO PUBLIC TRAFFIC

MILLING AND RESURFACING LIMITS

NAD 83/NA 2011

BEGIN TIP PROJECT U-6229
-L- POT STA. 20+45.00

PRC Sta. 16+97.85

PC Sta. 15+28.53

15+00

20+00

25+00

CECIL M. COATES, ET UX
DB 8337 PG 310
DB 2854 PG 179

MVC COMMERCIAL REAL ESTATE LLC
DB 8424 PG 159
DB 9735 PG 634

MVC COMMERCIAL REAL ESTATE LLC
DB 9949 PG 298
PB 91PG 159

VALLEY INVESTMENTS INC
DB 4514 PG 587
PB 91PG 159

VALLEY INVESTMENTS INC
DB 3395 PG 443
PB 88 PG 114

VALLEY INVESTMENTS INC
DB 2842 PG 225
PB 88 PG 114

100' RIGHT TURN (EXISTING)

135' TAPER (EXISTING)

150' TAPER

375' LEFT TURN

150' TAPER

375' LEFT TURN

RETAIN SYSTEM

REMOVE EXISTING GUARDRAIL

RETAIN EXISTING GUARDRAIL

REMOVE 15" RCP

REMOVE 18" RCP

15" RCP-IV

18" RCP-IV

15" RCP-III

TB 2GI

IA-MASH TL-3

MONOLITHIC CONC. ISLAND

Fayetteville PWC, 8 "

Fayetteville PWC, 4 "

Piedmont Natural Gas Co

S 47° 52' 29.6" E

S 48° 30' 55.1" E

PT Sta. 17+47.02

PT Sta. 19+88.36

PC Sta. 19+43.65

BEGIN CONSTRUCTION
-L- POT STA. 20+32.00

MATCHLINE -L- STA. 28+00.00
SEE SHEET 5

FOR CONCRETE ISLAND DETAIL SEE SHEET 2B-1

-L- CURVE DATA

PI Sta 16+13.20	PI Sta 17+22.44	PI Sta 19+66.01
△ = 1° 56' 25.0" (LT)	△ = 0° 56' 20.6" (RT)	△ = 0° 38' 25.5" (LT)
D = 1° 08' 45.3"	D = 1° 54' 35.5"	D = 1° 25' 56.6"
L = 169.32'	L = 49.17'	L = 44.71'
T = 84.67'	T = 24.58'	T = 22.36'
R = 5,000.00'	R = 3,000.00'	R = 4,000.00'
SE = NA	SE = NA	SE = NA

NOTE: LIMITED PEDESTRIAN CROSSWALK LOCATIONS WERE SCOPED AS PART OF THIS PROJECT DUE TO PROJECT FUNDING.

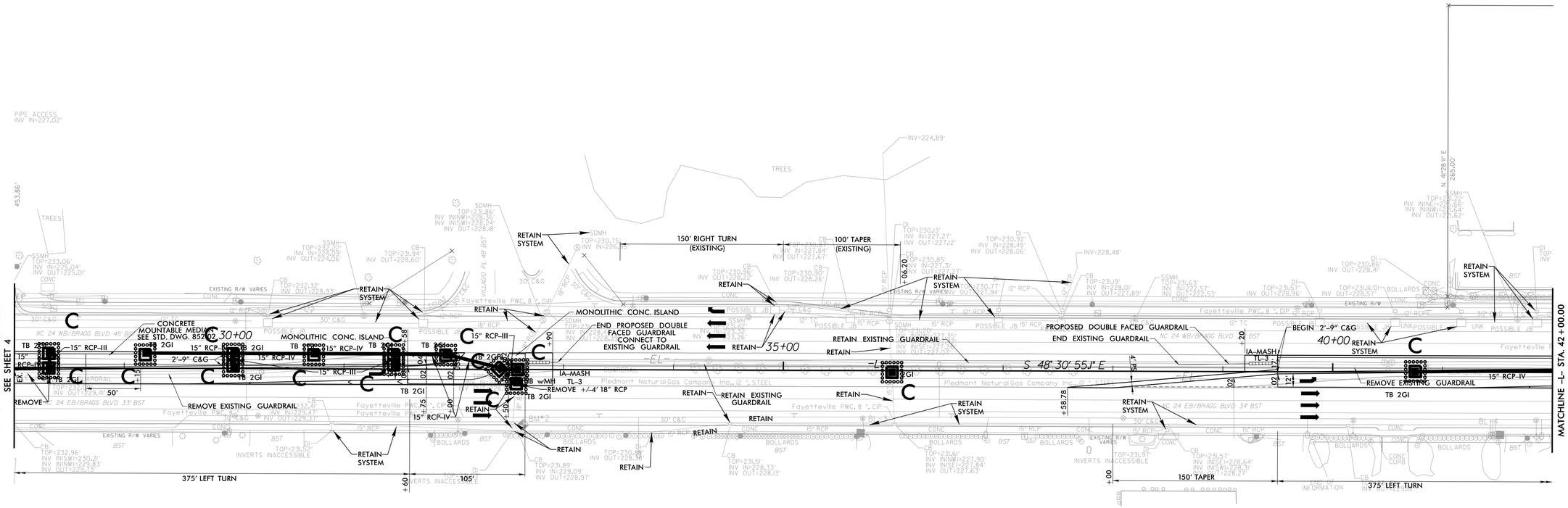
NOTE: LIMITED DRAINAGE DESIGN WAS SCOPED FOR THIS PROJECT DUE TO FUNDING. THE PROPOSED DRAINAGE DESIGN DOES NOT MEET NCDOT HYDRAULICS DESIGN STANDARDS FOR PIPE CAPACITY AND SPREAD AT VARIOUS LOCATIONS.

8/17/99

PROJECT REFERENCE NO.	SHEET NO.
U-6229	EC-13/CONST.05
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

INSTALL FABRIC INSERT INLET PROTECTION DEVICE IN LIEU OF ROCK INLET SEDIMENT TRAP TYPE 'C' AS DIRECTED TO AVOID PONDING OF RUNOFF IN ROADWAY OPEN TO PUBLIC TRAFFIC

NAD 83/NA 2011



MILLING AND RESURFACING LIMITS

FOR CONCRETE ISLAND DETAIL SEE SHEET 2B-1

8/17/99

PROJECT REFERENCE NO.	SHEET NO.
U-6229	EC-14/CONST.06
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

INSTALL FABRIC INSERT INLET PROTECTION DEVICE IN LIEU OF ROCK INLET SEDIMENT TRAP TYPE 'C' AS DIRECTED TO AVOID PONDING OF RUNOFF IN ROADWAY OPEN TO PUBLIC TRAFFIC

NAD 83/NA 2011

MATCHLINE -L- STA. 42+00.00
SEE SHEET 5

MATCHLINE -L- STA. 56+00.00
SEE SHEET 7

MANAGED DEVELOPMENT FAYETTEVILLE LLC
DB 7079 PG 401
PB 115 PG 163

3701 LIMITED PARTNERSHIP
DB 7079 PG 417
PB 115 PG 163

NSA PROPERTY HOLDINGS LLC
DB 9771 PG 791
PB 123 PG 20

OCT 2 LLC
DB 10177 PG 760

ROSEMYR CORPORATION
& H H C CO INC
DB 4025 PG 84

ROSEMYR CORPORATION
& H H C CO INC
DB 3787 PG 334

SAP-II YSI II LLC
DB 8558 PG 437
PB 81 PG 30

AGREE STORES LLC
DB 10615 PG 60
PB 104 PG 77

R & W PIZZA HUTS OF NC
DB 3892 PG 785
PB 81 PG 30

MCDONALDS CORPORATION
DB 3611 PG 244
PB 73 PG 75

50' INGRESS/EGRESS/REGRESS EASEMENT PB 123 PG 20

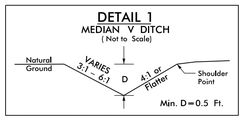
20' SANITARY SEWER EASEMENT PB 104 PG 77

S 48°31'49" E 261.33'
S 48°31'49" E 50.00'
N 41°30'30" E 153.34'
S 41°27'37" W 265.00'
N 41°30'30" E 265.00'
N 34°44'50" W 23.31'
R=250.00' ARC=88.00'
S 24°54'45" E 168.43'
N 17°18'28" E 168.37'
S 50°01'01" E 280.41'
S 48°46'00" E 150.36'
S 48°46'00" E 124.69'
N 61°05'55" W 220.00'
S 28°54'05" W 162.80'
N 49°12'00" W 219.92'
S 40°43'30" W 162.55'
S 27°10'17" W 188.28'
N 27°10'17" E 293.75'
N 40°43'30" E 293.75'
N 47°17'58" E 91.52'
N 14°40'00" E 130.24'
S 48° 30' 55" E

15" RCP
18" RCP
24" C&G
30" C&G
EXISTING R/W
EIP
PK NAIL
BST
CONC
TREES
BARGAIN ST 42' BST
NC 24 WB/BRAGG BLVD 33' BST
Fayetteville PWC, 8 ", DIP
Fayetteville PWC, 6 ", DIP
Fayetteville PWC, 2 "
Piedmont Natl Gas Company Inc, 12 ", STEEL
TRAFFIC SERVICE

RETAIN
RETAIN SYSTEM
REMOVE
REMOVE EXISTING GUARDRAIL
REMOVE AND REPLACE EXISTING GUARDRAIL
MONOLITHIC CONC. ISLAND
MONOLITHIC CONC. ISLAND REMOVE
2'-9" C&G
REMOVE +/-14'
REMOVE +/-4'
TB 2GI
2GI
2GI-D
TL-3
NA-MASH
140' RIGHT TURN (EXISTING)
100' TAPER (EXISTING)
105'
375' LEFT TURN
150' TAPER
400' LEFT TURN
70' RIGHT TURN (EXISTING)
100' TAPER (EXISTING)
91' TAPER
55+00 PROPOSED DOUBLE FACED GUARDRAIL
MEDIAN V DITCH SLOPE=0.3% SEE DETAIL 1
MEDIAN V DITCH SLOPE=0.5% SEE DETAIL 1

DETAIL 1
MEDIAN 'V' DITCH
(Not to Scale)



FROM STA. 52+00 TO STA. 57+75 -L- MED

MILLING AND RESURFACING LIMITS

FOR CONCRETE ISLAND DETAIL SEE SHEET 2B-1

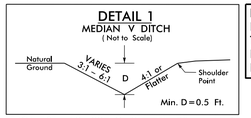
BM3 ELEVATION = 229.93
N 483623 E 2017773
BL STATION 61+68.00 4 RIGHT
PK NAIL IN CONC CURB

11:20:33 AM
R:\U-6229_Environmental\Design\PSH\U6229_REV_EC_PSH06_Final.dgn

8/17/99

PROJECT REFERENCE NO.	SHEET NO.
U-6229	EC-15/CONST.07
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

DETAIL 1
MEDIAN V DITCH
(Not to Scale)



FROM STA. 52+00 TO STA. 57+75 –L– MED

INSTALL FABRIC INSERT INLET PROTECTION DEVICE IN LIEU OF ROCK INLET SEDIMENT TRAP TYPE 'C' AS DIRECTED TO AVOID PONDING OF RUNOFF IN ROADWAY OPEN TO PUBLIC TRAFFIC

NAD 83/NSRS 2007

AGREE STORES OF NC
DB 10615 PG 60
PB 104 PG 77

R & W PIZZA HUTS OF NC
DB 3892 PG 785
PB 81PG 30

PC Sta. 57+43.07

DONUT INVESTMENT PARTNERS LLC
DB 10388 PG 113
PB 81PG 30

NASSIMI AMSTERDAM DEVELOPMENT LP
DB 7263 PG 367
PB 95 PG 142

PT Sta. 63+62.83

NASSIMI AMSTERDAM DEVELOPMENT LP
DB 7259 PG 491
PB 95 PG 142

SISTERS MANAGEMENT LLC
DB 8844 PG 178
PB 95 PG 142

MCDONALDS CORPORATION
DB 3611PG 244
PB 73 PG 75

KELLY & KELLY INVESTMENTS INC
DB 7976 PG 7
DB 6668 PG 307
PB 109 PG 18

MATCHLINE –L– STA. 56+00.00 SEE SHEET 6

MATCHLINE –L– STA. 70+00.00 SEE SHEET 8

PROPOSED DOUBLE FACED GUARDRAIL

250' LEFT TURN

100' TAPER

150' TAPER

400' LEFT TURN

405' LEFT TURN

MEDIAN V DITCH SLOPE=0.4% SEE DETAIL 1

FILL WITH FLOWABLE FILL

REMOVE EXISTING GUARDRAIL

MONOLITHIC CONC. ISLAND

BEGIN 2'-9" C&G

2'-9" C&G

S 69°42'55.1" E

–L–

–L– CURVE DATA

PI Sta 60+56.53
△ = 21° 12' 00.0" (LT)
D = 3° 25' 14.3"
L = 619.77'
T = 313.47'
R = 1,675.00'
SE = NA

MILLING AND RESURFACING LIMITS

EXISTING SIGNAL TO BE MODIFIED

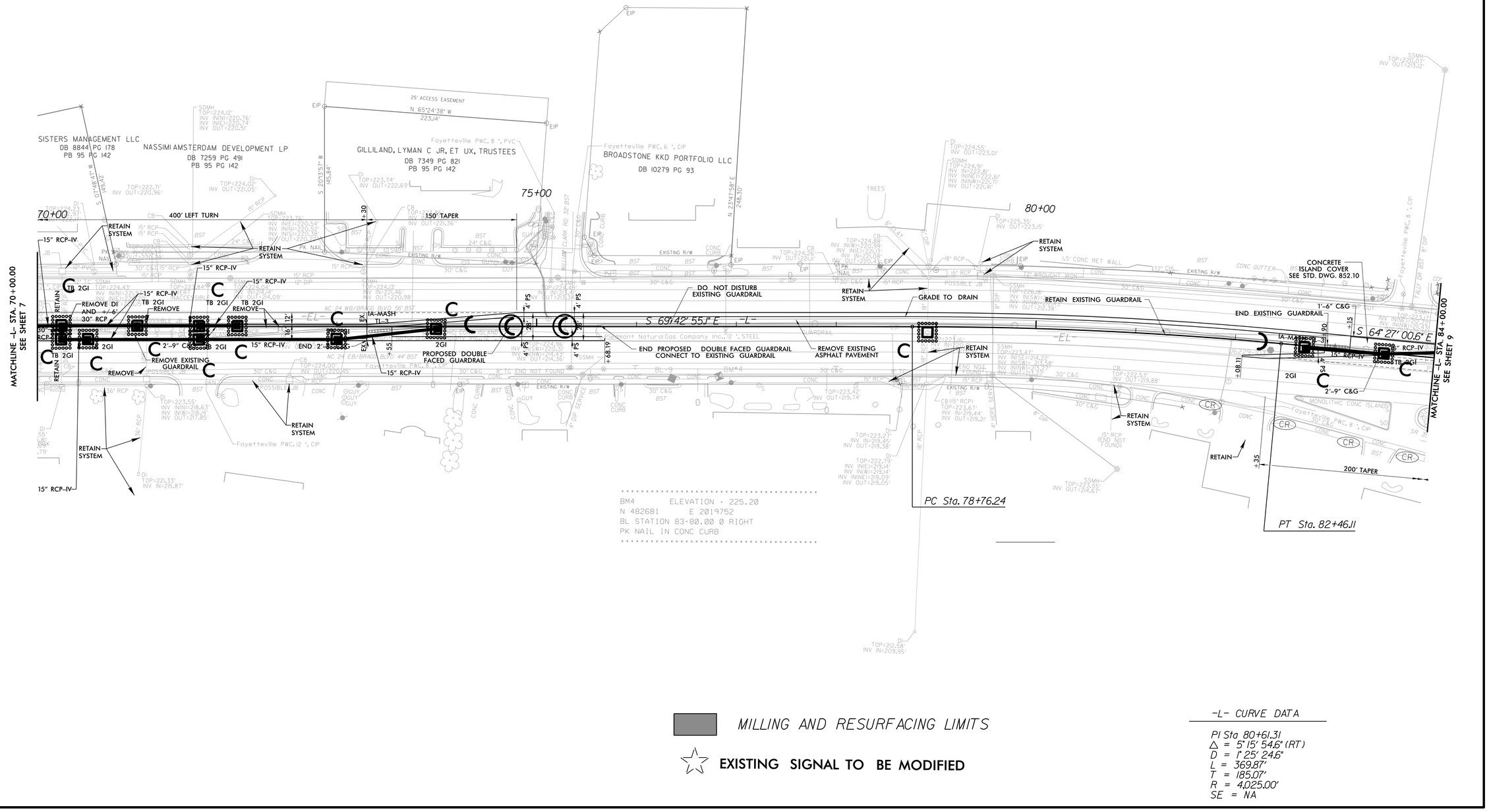
FOR CONCRETE ISLAND DETAIL SEE SHEET 2B-2

8/17/99

PROJECT REFERENCE NO.	SHEET NO.
U-6229	EC-16/CONST.08
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

NAD 83/NA 2011

INSTALL FABRIC INSERT INLET PROTECTION DEVICE IN LIEU OF ROCK INLET SEDIMENT TRAP TYPE 'C' AS DIRECTED TO AVOID PONDING OF RUNOFF IN ROADWAY OPEN TO PUBLIC TRAFFIC



MILLING AND RESURFACING LIMITS

EXISTING SIGNAL TO BE MODIFIED

-L- CURVE DATA

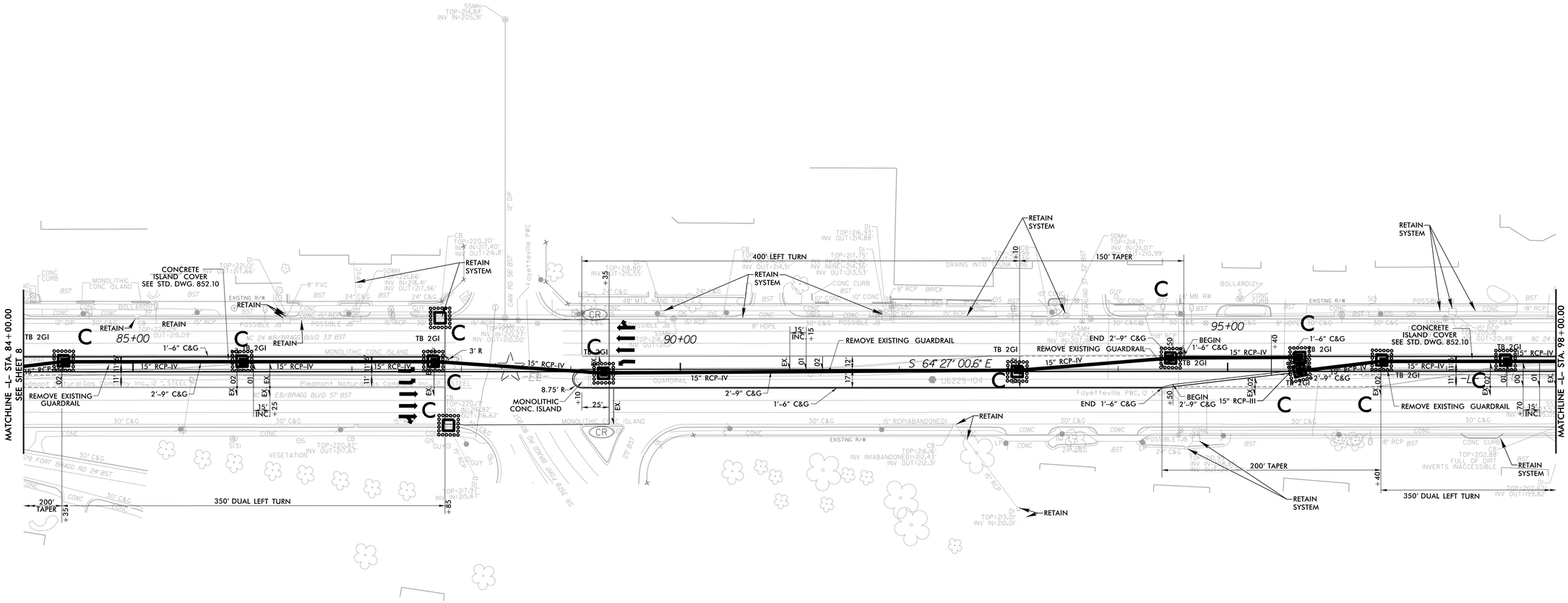
PI Sta 80+61.31
Δ = 5° 15' 54.6" (RT)
D = 1° 25' 24.6"
L = 369.87'
T = 185.07'
R = 4,025.00'
SE = NA

8/17/99

PROJECT REFERENCE NO.	SHEET NO.
U-6229	EC-17/CONST.09
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

INSTALL FABRIC INSERT INLET PROTECTION DEVICE IN LIEU OF ROCK INLET SEDIMENT TRAP TYPE 'C' AS DIRECTED TO AVOID PONDING OF RUNOFF IN ROADWAY OPEN TO PUBLIC TRAFFIC

NAD 83/NA 2011

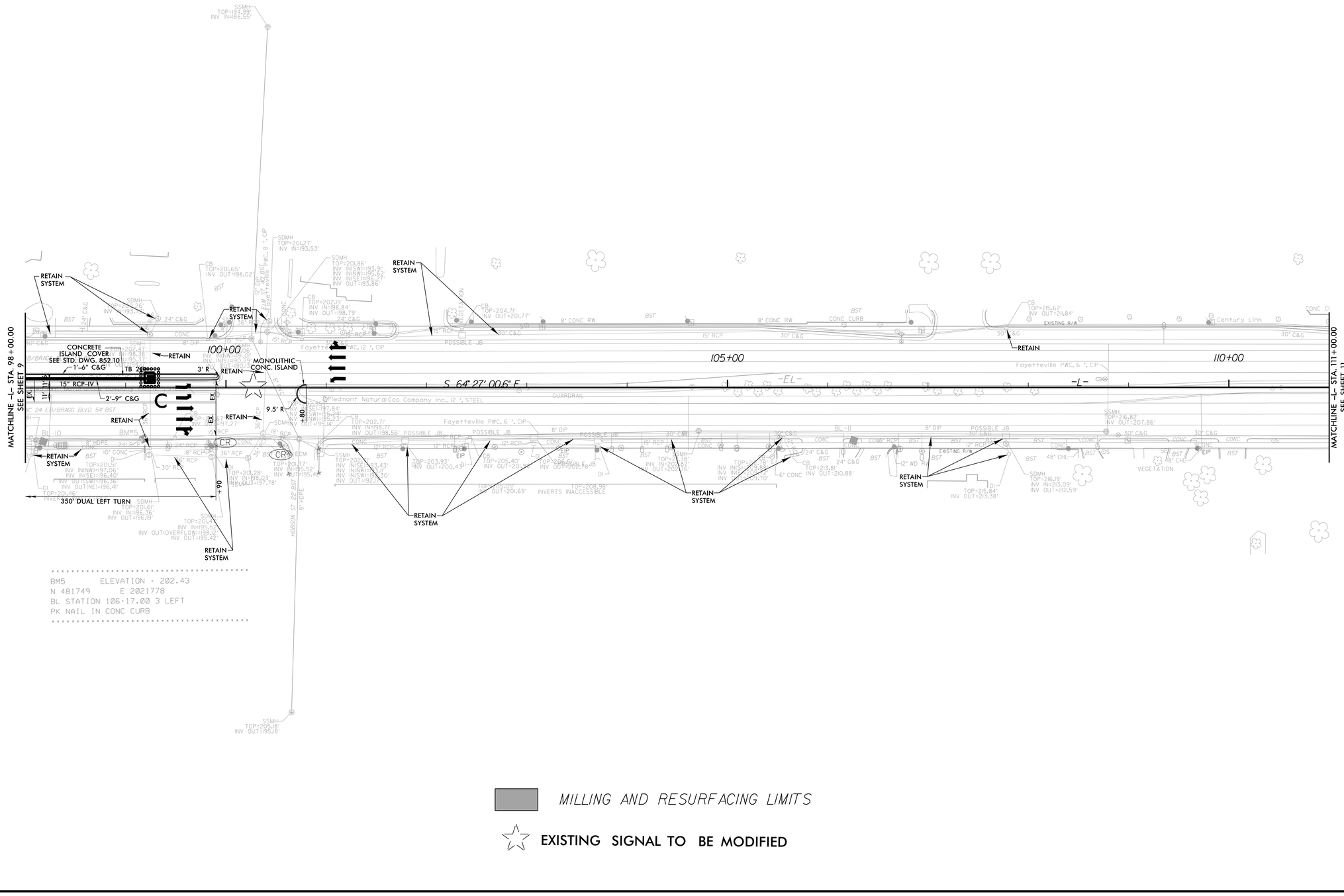


8/17/99

PROJECT REFERENCE NO.	SHEET NO.
U-6229	EC-18/CONST.10
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

INSTALL FABRIC INSERT INLET PROTECTION DEVICE IN LIEU OF ROCK INLET SEDIMENT TRAP TYPE 'C' AS DIRECTED TO AVOID PONDING OF RUNOFF IN ROADWAY OPEN TO PUBLIC TRAFFIC

NAD 83/NA 2011



MILLING AND RESURFACING LIMITS

EXISTING SIGNAL TO BE MODIFIED

8/17/99

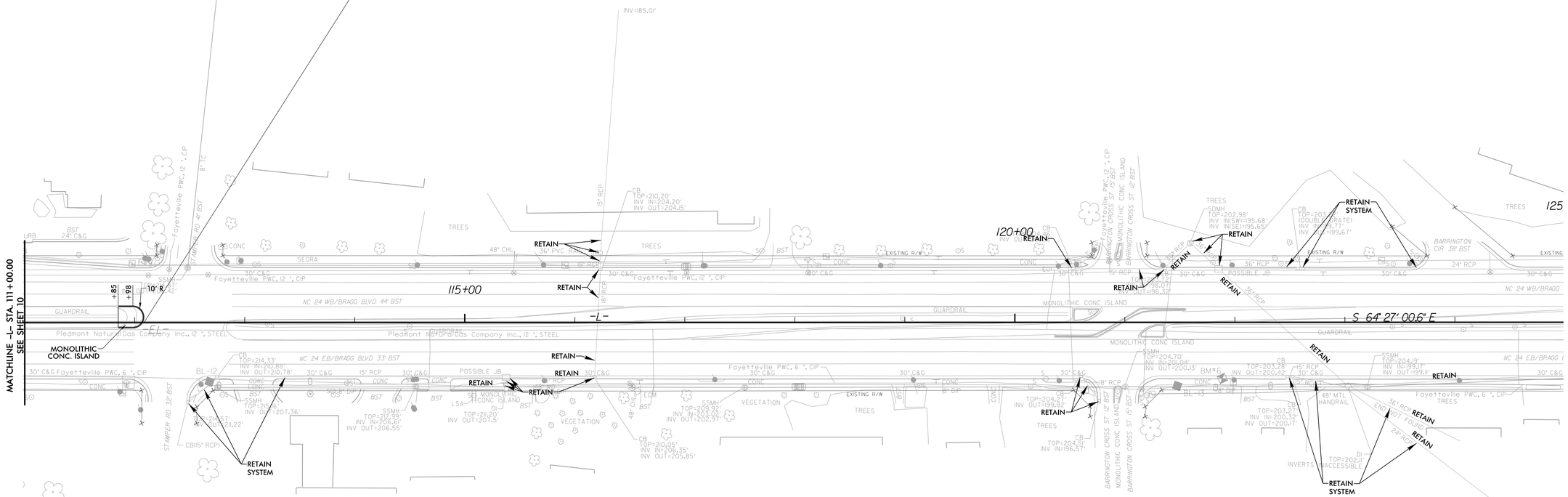
PROJECT REFERENCE NO.	SHEET NO.
U-6229	EC-19/CONST.JI
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

INSTALL FABRIC INSERT INLET PROTECTION DEVICE IN LIEU OF ROCK INLET SEDIMENT TRAP TYPE 'C' AS DIRECTED TO AVOID PONDING OF RUNOFF IN ROADWAY OPEN TO PUBLIC TRAFFIC

NAD 83/NA 2011

END TIP PROJECT U-6229
-L- POT STA. 112+08.29

MATCHLINE -L- STA. 111+00.00
SEE SHEET 10



****
BM6 ELEVATION = 204.09
N 480770 E 2023826
BL STATION 128+88.00 4 LEFT
PK NAIL IN CONC CURB
****

MILLING AND RESURFACING LIMITS

EXISTING SIGNAL TO BE MODIFIED