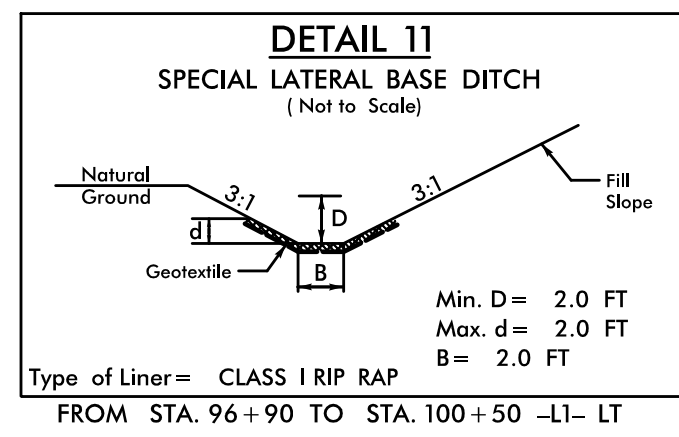
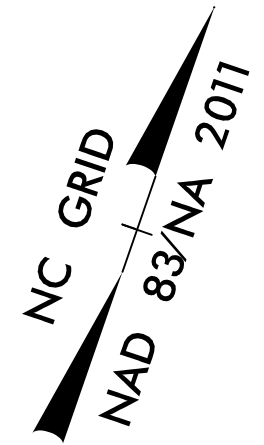


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for the convenience of the user
and is Not a Certified Document –**

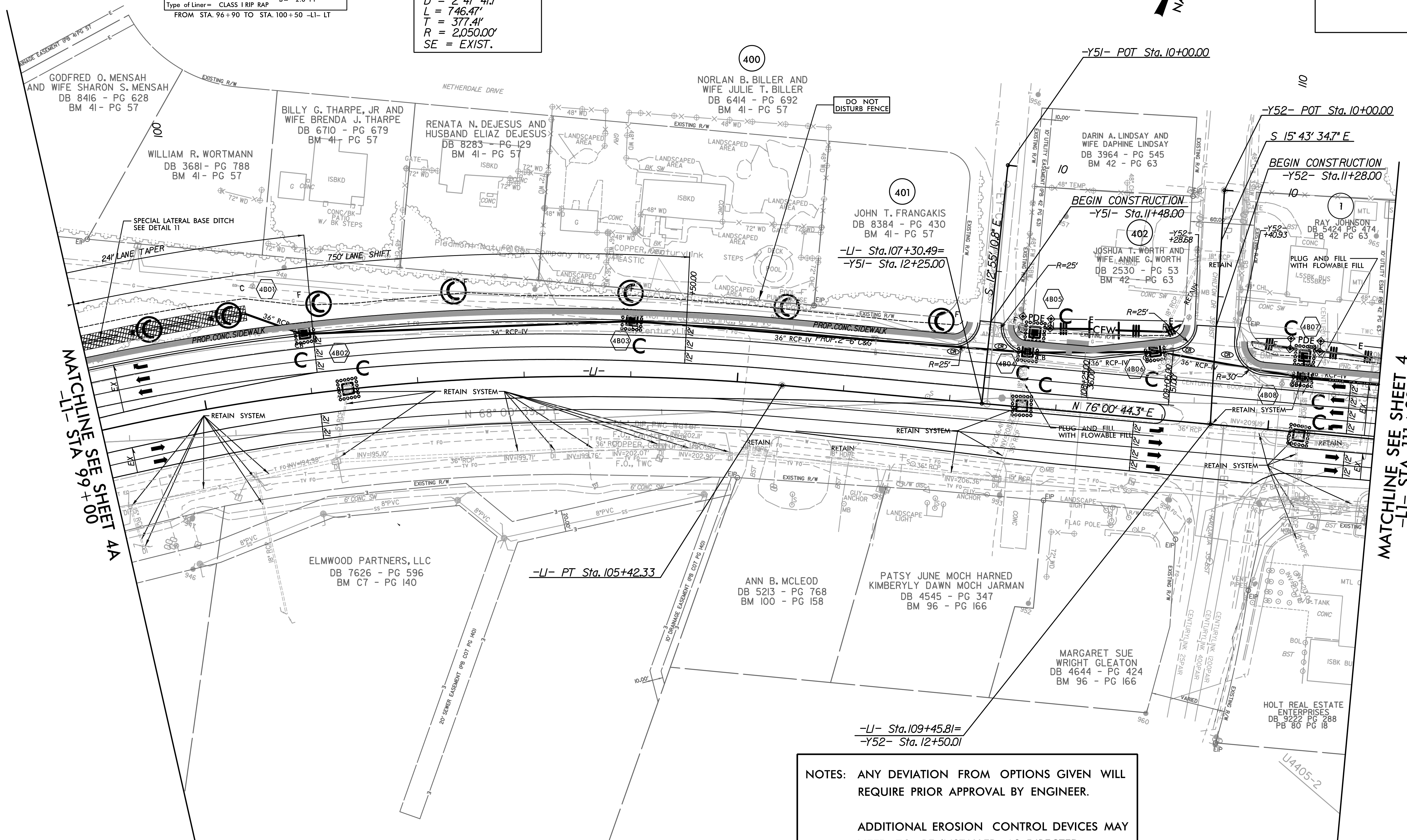
**The documents contained herein were originally issued
and sealed by the individuals whose names and license
numbers appear on each page, on the dates appearing
with their signature on that page.**

**This file or an individual page
shall not be considered a certified document.**

PROJECT REFERENCE NO.	SHEET NO.
U-4405	EC-40/CONST. 4B
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER



-L1-
PI Sta 101+73.28
 $\Delta = 20' 51" 47.4" (RT)$
D = 2' 47" 41.7"
L = 746.47'
T = 377.41'
R = 2,050.00'
SE = EXIST.



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

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

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

NOTE: SEE SHEET 52 FOR -L1- PROFILE

REVISIONS

8/17/99
10:32:53 AM
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MATCHLINE SEE SHEET 4A
-L1- STA 99+00

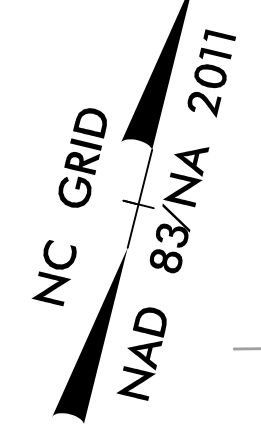
MATCHLINE SEE SHEET 4
-L1- STA 111+00

PROJECT REFERENCE NO.	SHEET NO.
U-4405	EC-41/CONST.04
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

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

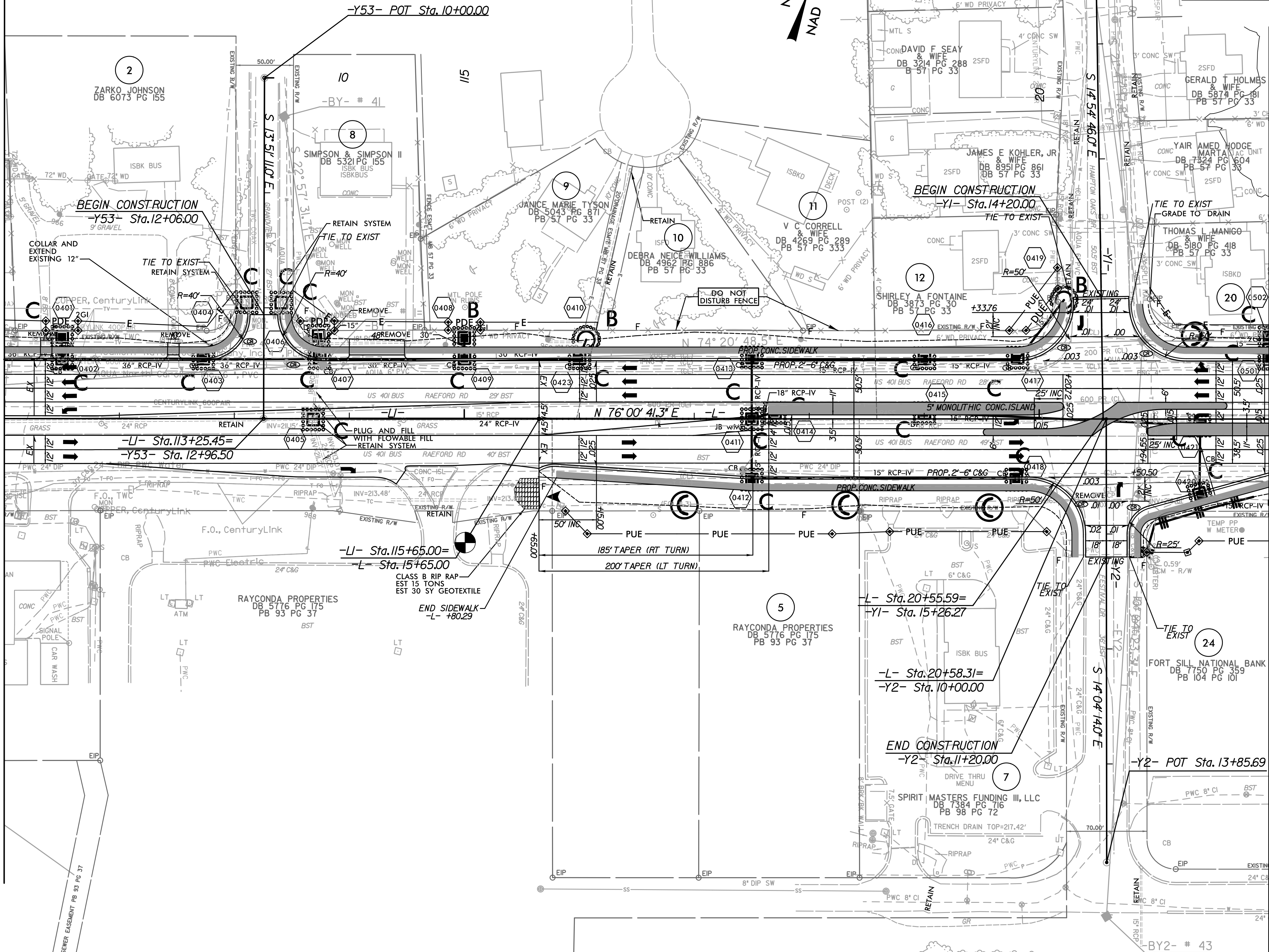
ADDITIONAL EROSION CONTROL DEVICES MAY NEED TO BE INSTALLED AS DIRECTED.

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



MATCHLINE SEE SHEET 4B
-L1- STA 11+00

MATCHLINE SEE SHEET 5
-L- STA 22+00



REVISIONS

PROP CONC SIDEWALK

NOTE: SEE SHEET 33 FOR -L- PROFILE
SEE SHEET 46 FOR -Y1- PROFILE
SEE SHEET 46 FOR -Y2- PROFILE

PROJECT REFERENCE NO.	SHEET NO.
U-4405	EC-42/CONST.05
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

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

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

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

NC GRID
NAD 83/NA 2011

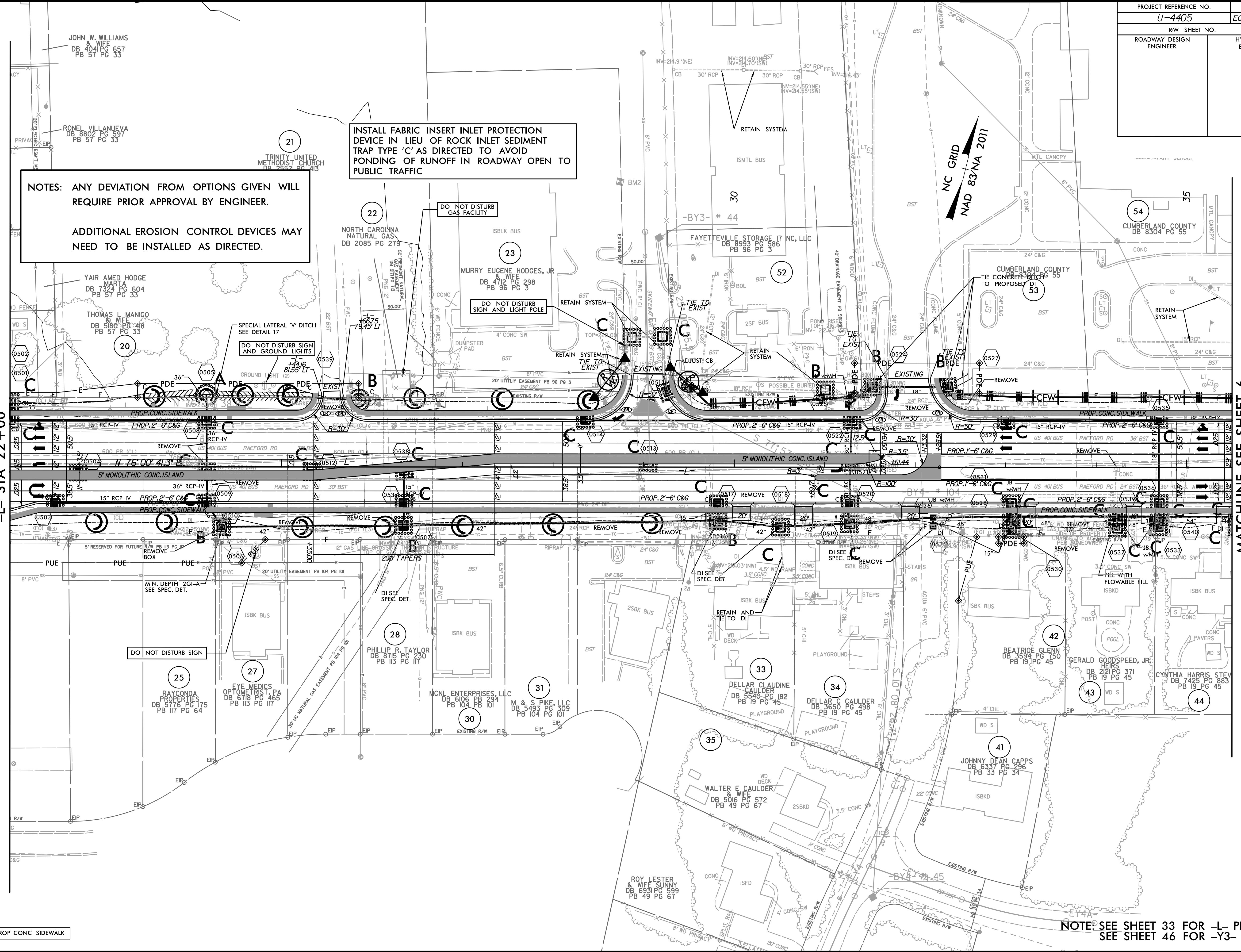
MATCHLINE SEE SHEET 4
-L- STA 22 + 00

MATCHLINE SEE SHEET 6
-L- STA 35 + 50

8/17/99
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11/1/01

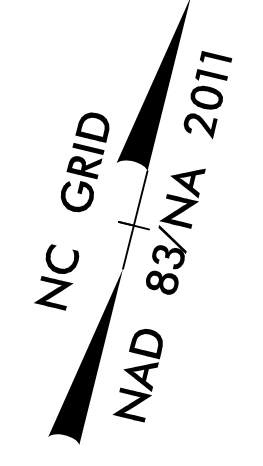
PROF CONC SIDEWALK

NOTE: SEE SHEET 33 FOR -L- PROFILE
SEE SHEET 46 FOR -Y3- PROFILE



REVISIONS

PROJECT REFERENCE NO.	SHEET NO.
U-4405	EC-43/CONST.06
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER



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

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

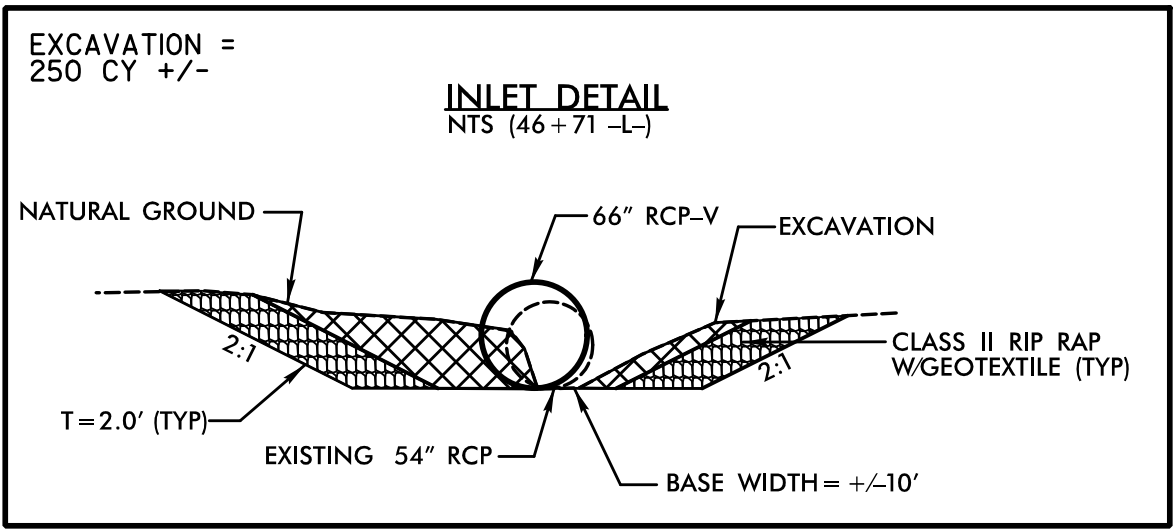
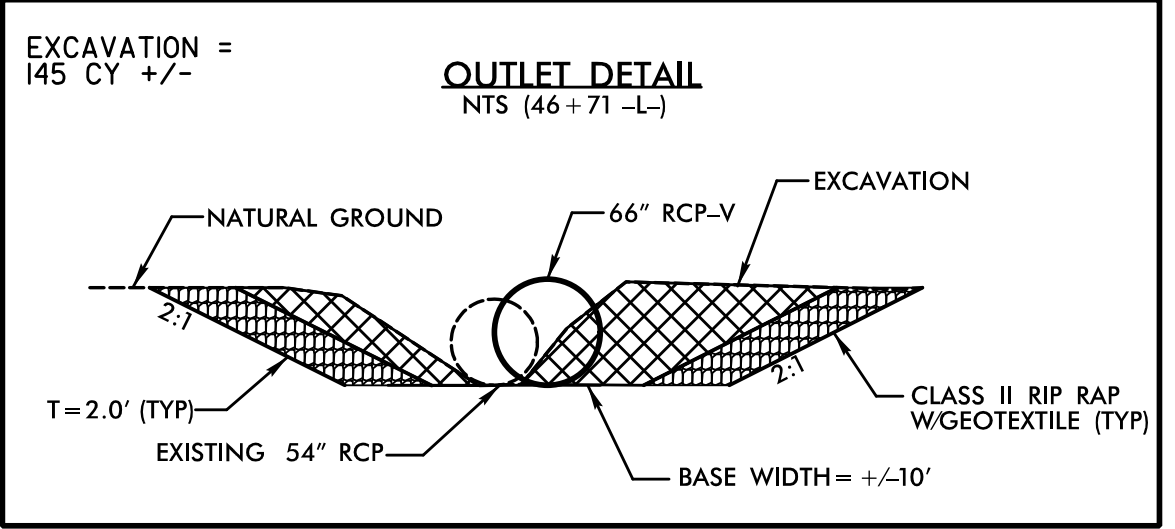
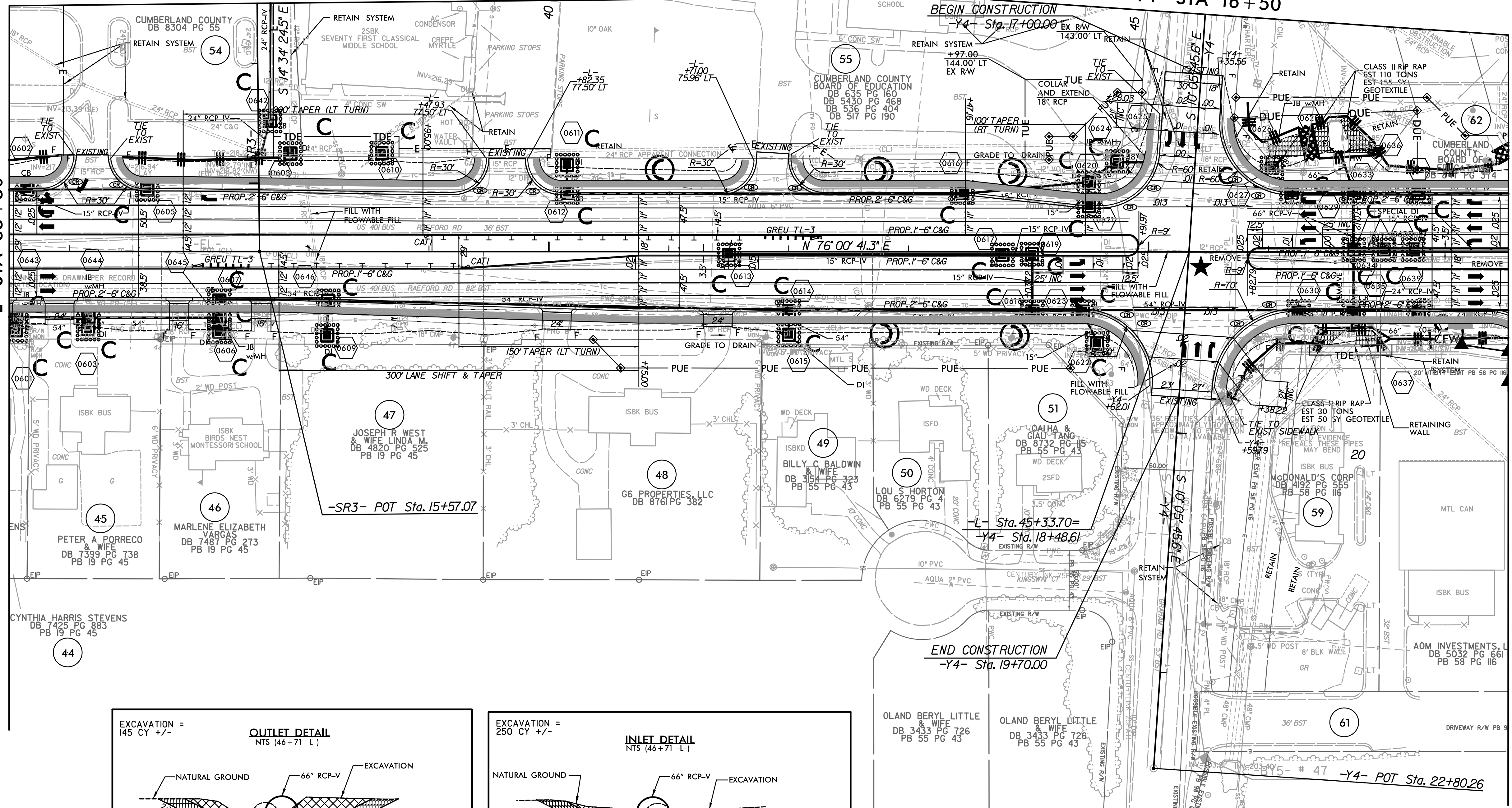
INSTALL FABRIC INSERT INLET PROTECTION DEVICE IN LIEU OF ROCK INLET SEDIMENT TRAP TYPE 'C' AS DIRECTED TO AVOID PONDING OF RUNOFF IN ROADWAY OPEN TO PUBLIC TRAFFIC

MATCHLINE SEE SHEET 5
-L- STA 35+50

MATCHLINE SEE SHEET 28
-SR3- STA 13+50

MATCHLINE SEE SHEET 28
-Y4- STA 16+50

MATCHLINE SEE SHEET 7
-L- STA 48+00



- ★ PROPOSED SIGNAL
- ▬ PROP CONC SIDEWALK

** A DESIGN EXCEPTION FOR LANE WIDTH IS REQUIRED FOR -L- STA. 38+95.00 TO -L- 319+95.00

R & W PIZZA HUTS OF NORTH CAROLINA DB 3223 PG 630 PB 98 PG 110

NOTE: SEE SHEET 33&34 FOR -L- PROFILE
SEE SHEET 46 FOR -Y4- PROFILE

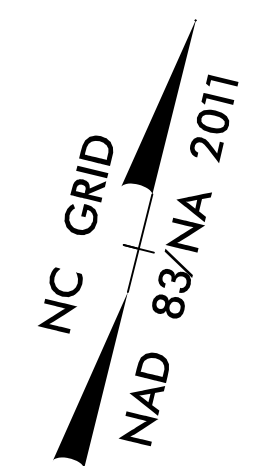
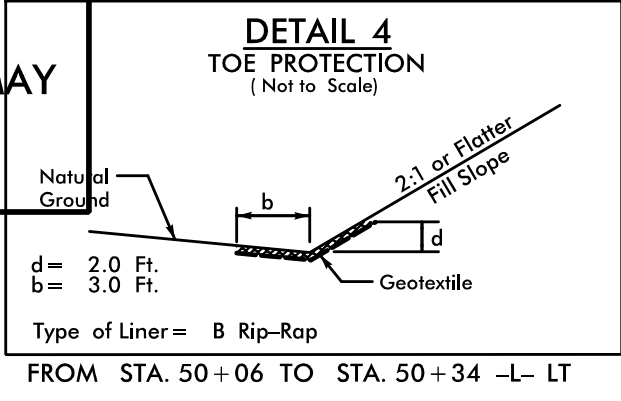
8/17/99
REVISIONS
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10/33/44 AM
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PROJECT REFERENCE NO.	SHEET NO.
U-4405	EC-44/CONST.07
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

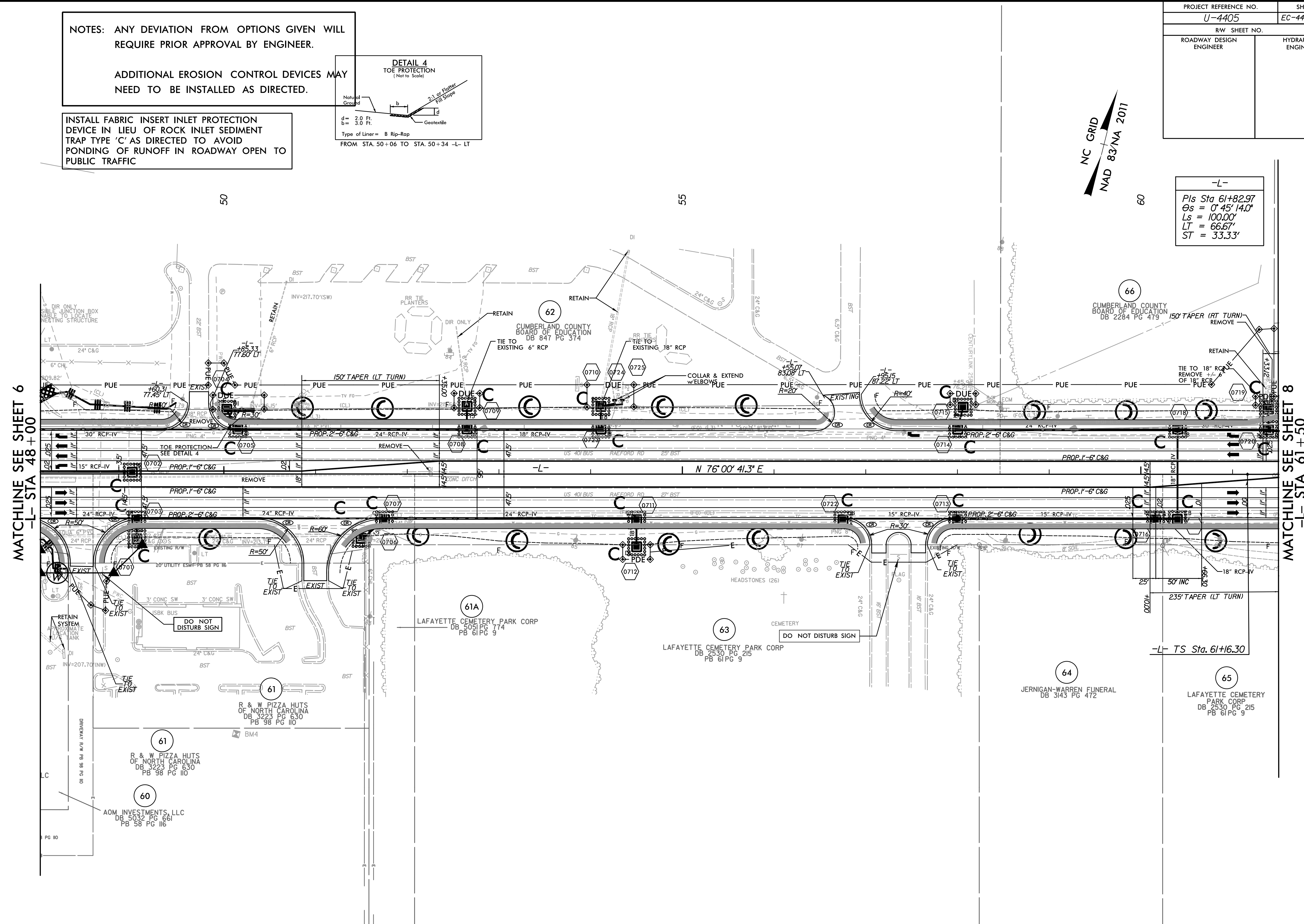
NOTES: ANY DEVIATION FROM OPTIONS GIVEN WILL REQUIRE PRIOR APPROVAL BY ENGINEER.

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

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



-L-
Pls Sta 61+82.97
Os = 0' 45' 14.0"
Ls = 100.00'
LT = 66.67'
ST = 33.33'



REVISIONS

MATCHLINE SEE SHEET 6
-L- STA 48+00

MATCHLINE SEE SHEET 8
-L- STA 61+50

PROP CONC SIDEWALK

** A DESIGN EXCEPTION FOR LANE WIDTH IS REQUIRED FOR -L- STA. 38+95.00 TO -L- 319+95.00

NOTE: SEE SHEET 34 FOR -L- PROFILE

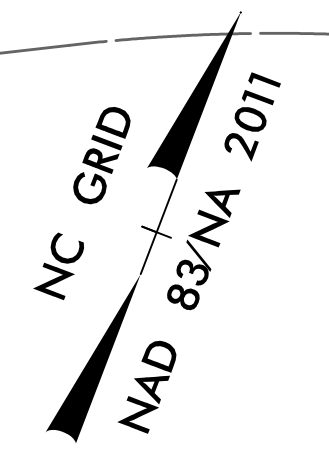
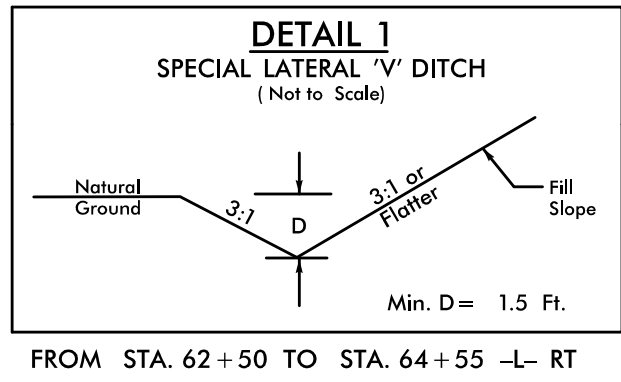
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10:34:03 AM
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PROJECT REFERENCE NO.	SHEET NO.
U-4405	EC-45/CONST.08
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

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

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

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



8/17/99

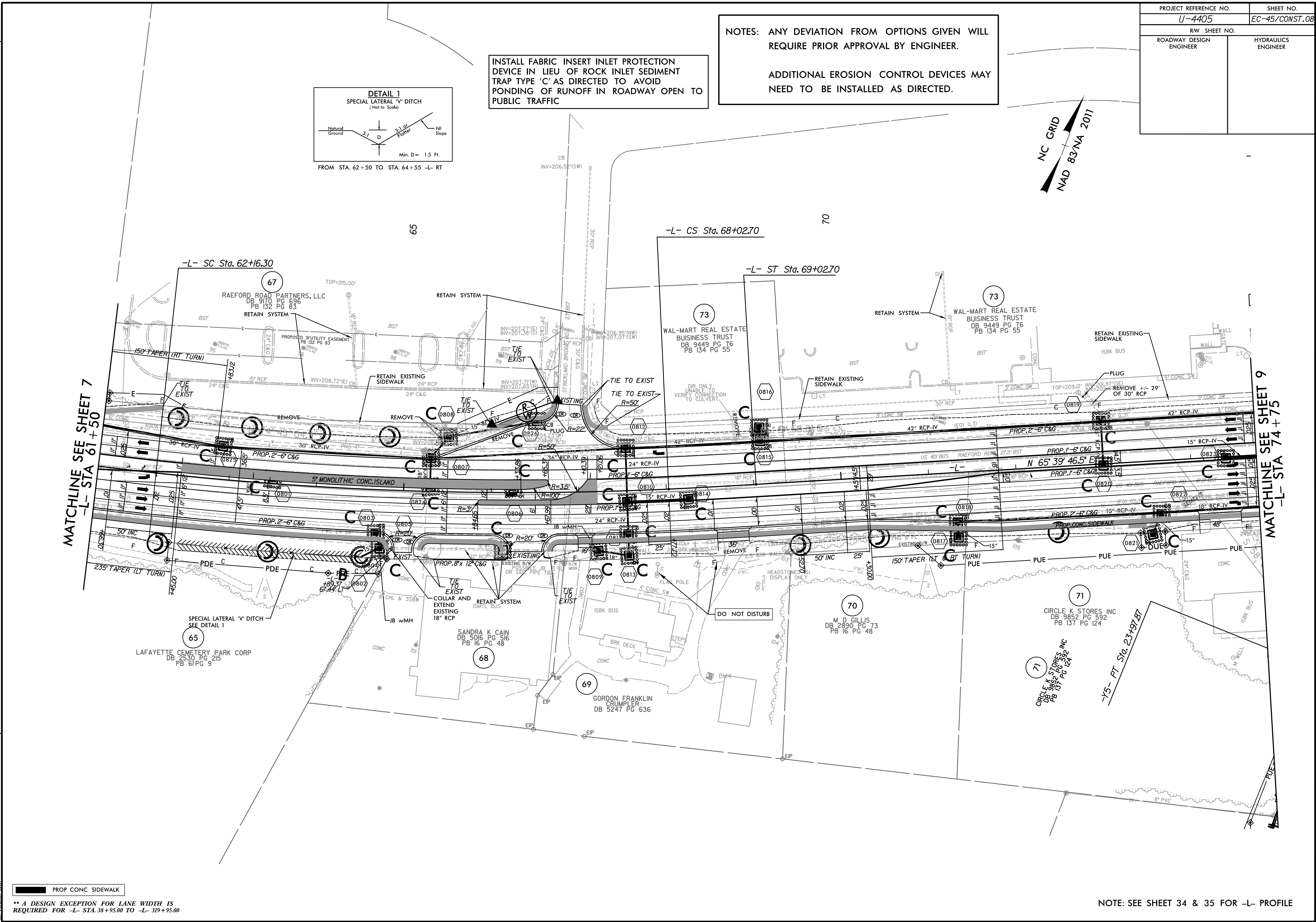
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** A DESIGN EXCEPTION FOR LANE WIDTH IS REQUIRED FOR -L- STA. 38+95.00 TO -L- 319+95.00

PROP CONC SIDEWALK

NOTE: SEE SHEET 34 & 35 FOR -L- PROFILE



MATCHLINE SEE SHEET 7
-L- STA 61+50

MATCHLINE SEE SHEET 9
-L- STA 74+75

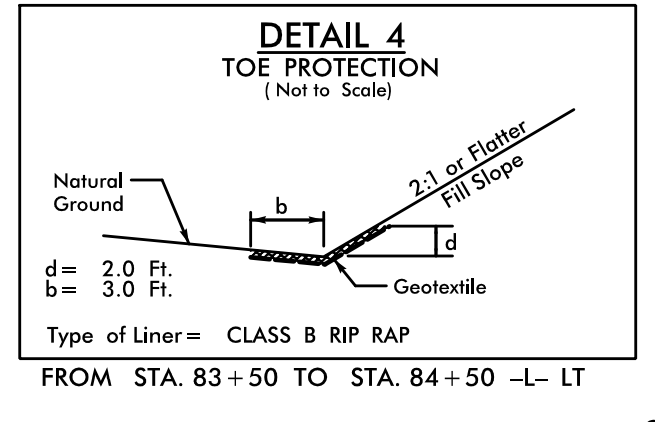
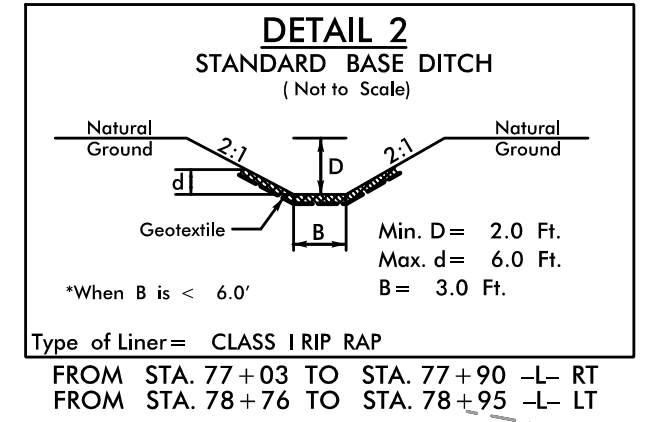
PROJECT REFERENCE NO.	SHEET NO.
U-4405	EC-46/CONST.09
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

-L-
 PIs Sta 81+21.39
 Δs = 0° 27' 17.0"
 Ls = 100.00'
 LT = 66.67'
 ST = 33.33'

-L-
 PIs Sta 84+71.94
 Δ = 5° 45' 54.2" (RT)
 D = 0° 54' 34.0"
 L = 633.90'
 T = 317.22'
 R = 6,300.00'
 SE = 0.025

-L-
 PIs Sta 88+21.95
 Δs = 0° 27' 17.0"
 Ls = 100.00'
 LT = 66.67'
 ST = 33.33'

-Y5-
 PIs Sta 15+94.46
 Δ = 34° 10' 44.0" (RT)
 D = 10° 44' 58.8"
 L = 317.95'
 T = 163.86'
 R = 533.00'

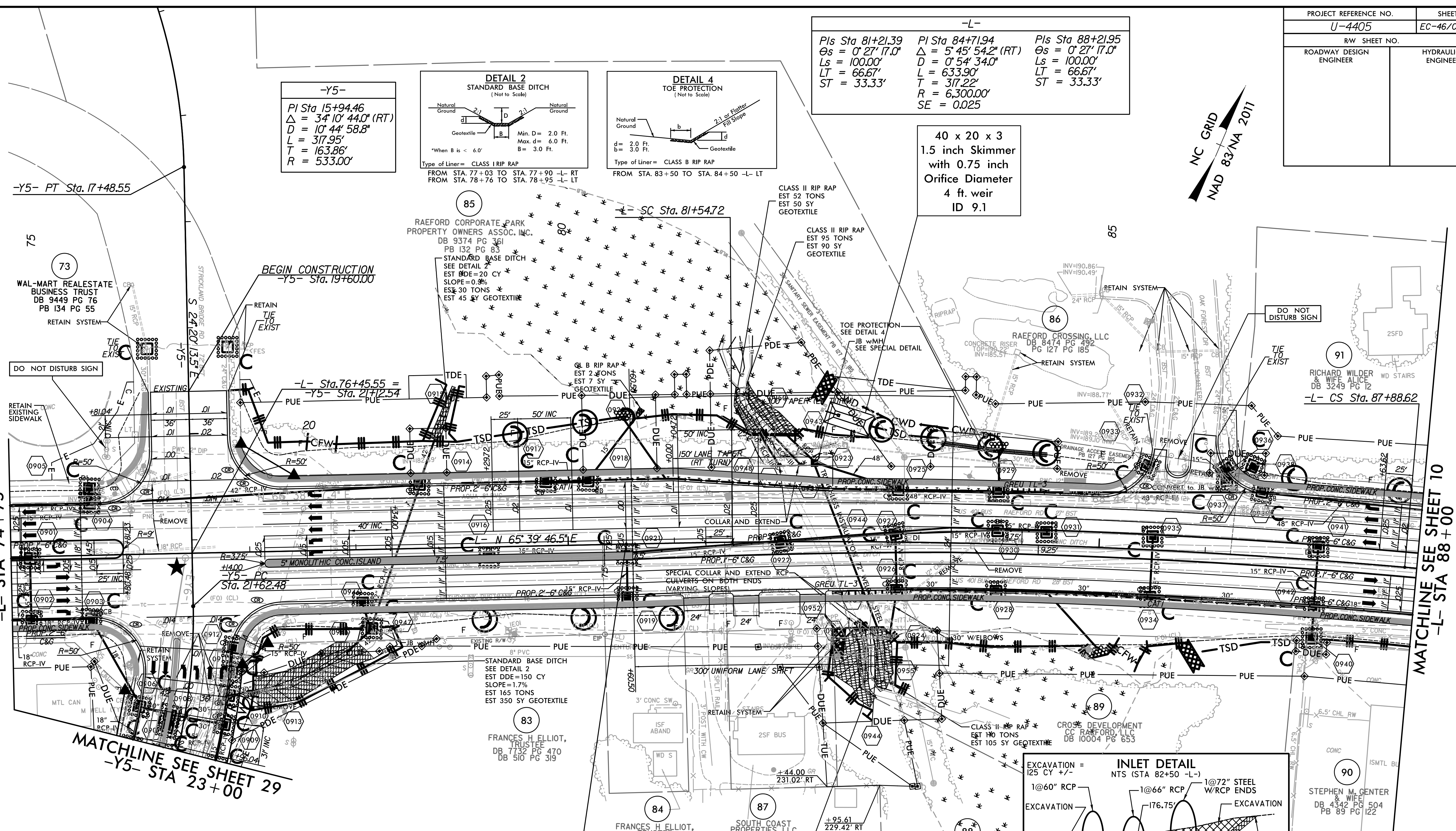


40 x 20 x 3
 1.5 inch Skimmer
 with 0.75 inch
 Orifice Diameter
 4 ft. weir
 ID 9.1

NC GRID
 NAD 83/NA 2011

MATCHLINE SEE SHEET 8
-L- STA 74+75

MATCHLINE SEE SHEET 10
-L- STA 88+00

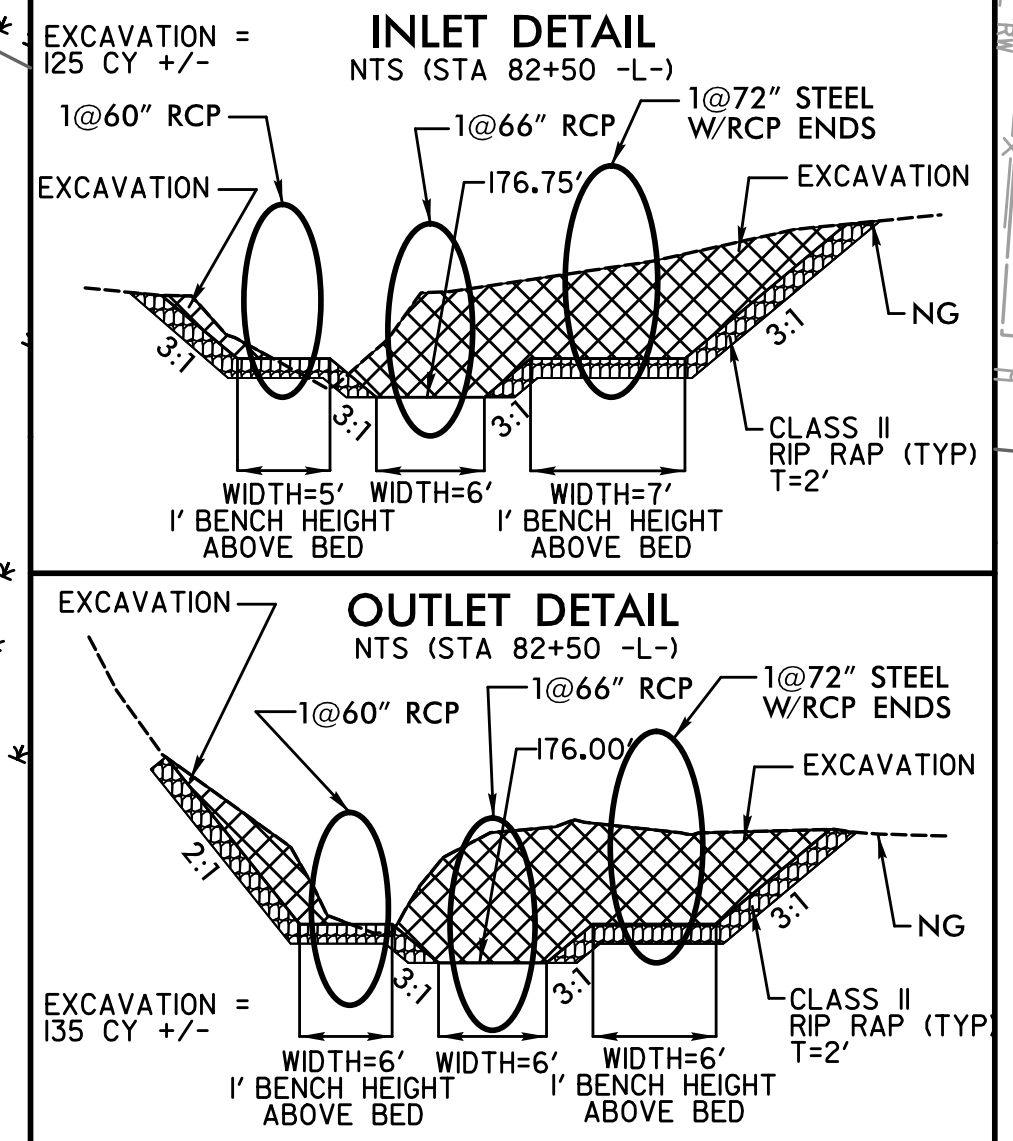
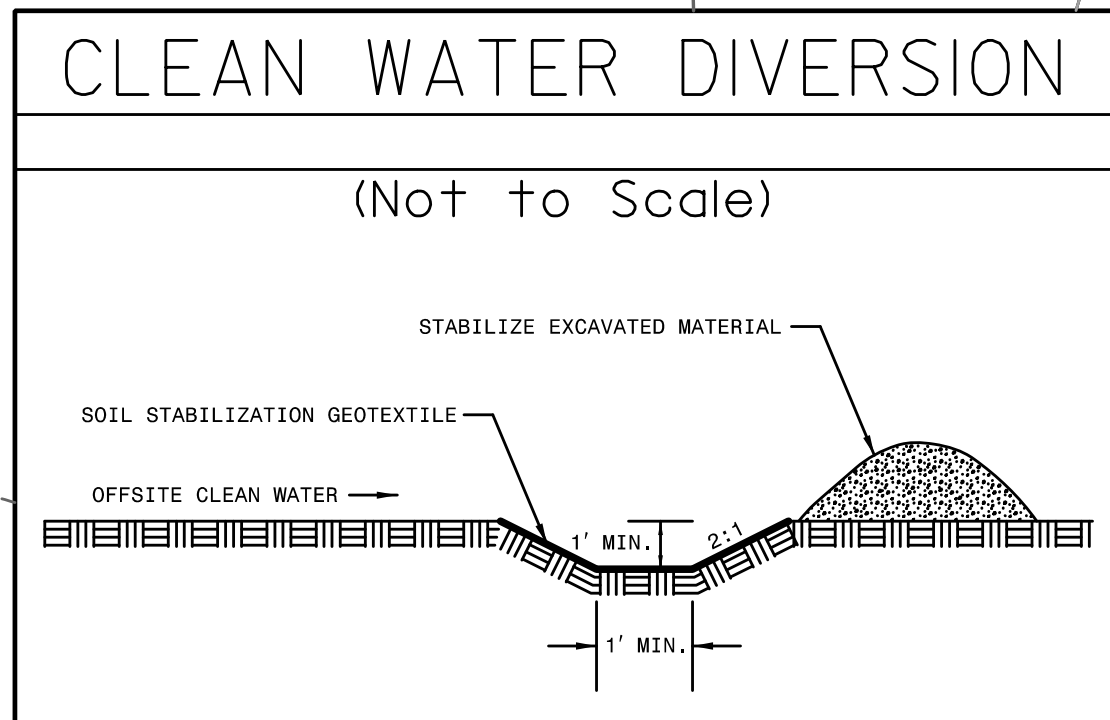


NOTES: ANY DEVIATION FROM OPTIONS GIVEN WILL REQUIRE PRIOR APPROVAL BY ENGINEER.

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

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

-Y5-
 PIs Sta 22+82.12
 Δ = 25° 18' 13.3" (RT)
 D = 10° 44' 58.8"
 L = 235.39'
 T = 119.65'
 R = 533.00'
 SE = 0.02



NOTE: SEE SHEET 35 FOR -L- PROFILE
 SEE SHEET 46 FOR -Y5- PROFILE

** A DESIGN EXCEPTION FOR LANE WIDTH IS REQUIRED FOR -L- STA. 38+95.00 TO -L- 319+95.00

- ★ PROPOSED SIGNAL
- ▬ PROP CONC SIDEWALK

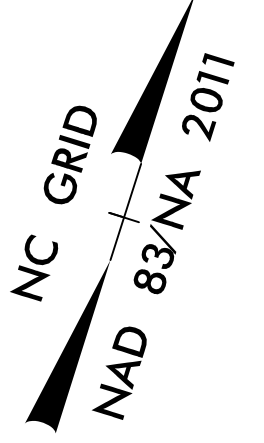
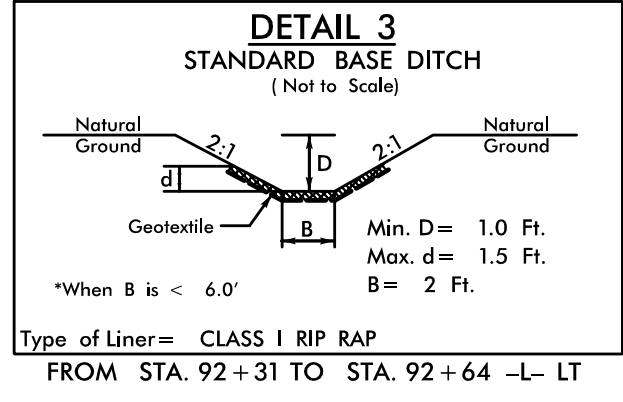
REVISIONS

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 10/31/09

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

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

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



-Y7-
 PI Sta 12+57.36
 $\Delta = 20^\circ 39' 00.6''$ (RT)
 $D = 6^\circ 30' 00.0''$
 $L = 317.69'$
 $T = 160.59'$
 $R = 881.47'$

-L-
 PIs Sta 88+21.95
 $\Theta_s = 0^\circ 27' 17.0''$
 $L_s = 100.00'$
 $LT = 66.67'$
 $ST = 33.33'$

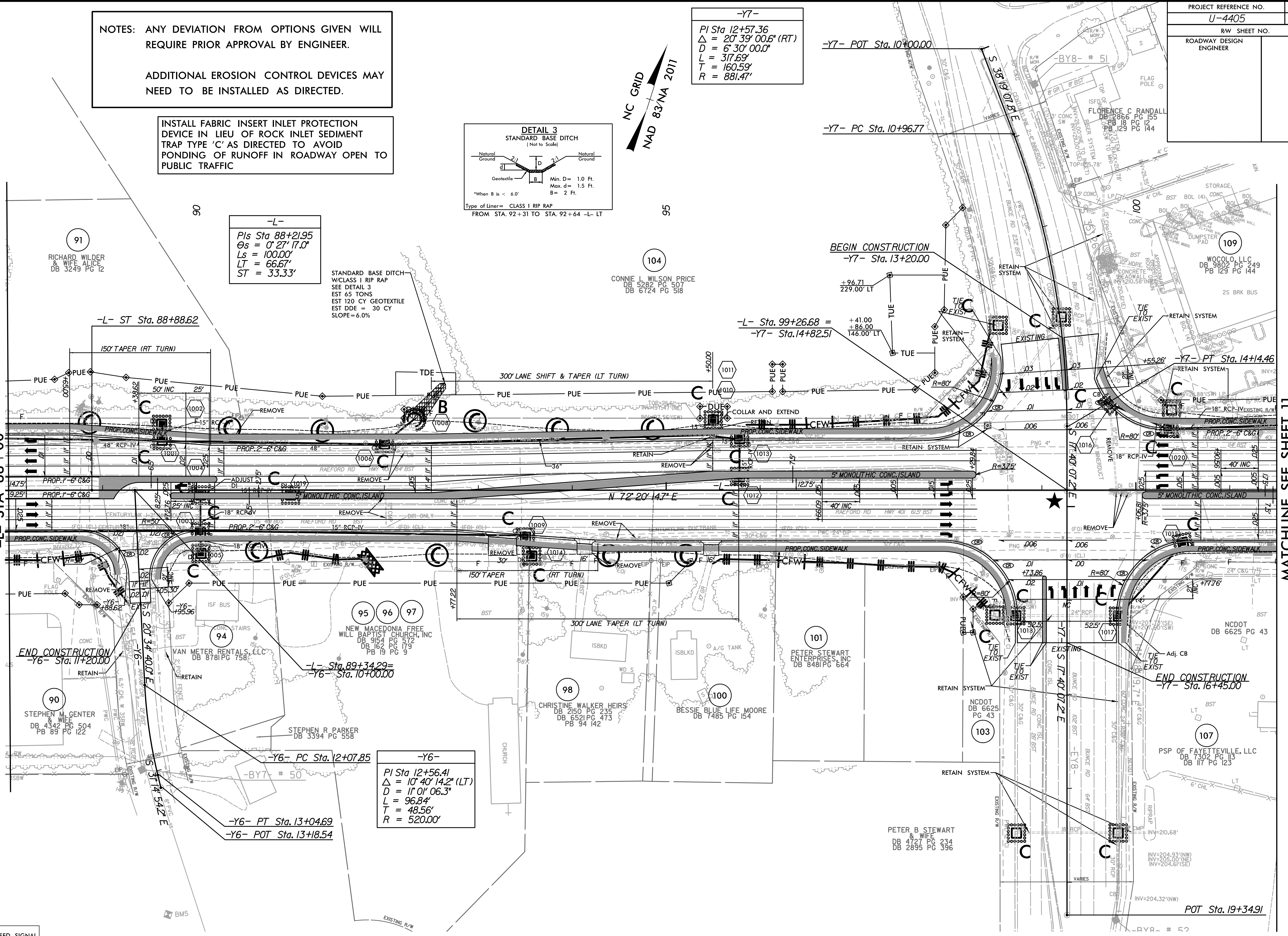
STANDARD BASE DITCH
 W/CLASS 1 RIP RAP
 SEE DETAIL 3
 EST 65 TONS
 EST 120 CY GEOTEXTILE
 EST DDE = 30 CY
 SLOPE = 6.0%

-L- Sta. 99+26.68 =
 -Y7- Sta. 14+82.51

-Y6-
 PI Sta 12+56.41
 $\Delta = 10^\circ 40' 14.2''$ (LT)
 $D = 1^\circ 01' 06.3''$
 $L = 96.84'$
 $T = 48.56'$
 $R = 520.00'$

MATCHLINE SEE SHEET 9
 -L- STA 88+00

MATCHLINE SEE SHEET 11
 -L- STA 101+50



- ★ PROPOSED SIGNAL
- ▬ PROP CONC SIDEWALK

** A DESIGN EXCEPTION FOR LANE WIDTH IS REQUIRED FOR -L- STA. 38+95.00 TO -L- 319+95.00

NOTE: SEE SHEET 35&36 FOR -L- PROFILE
 SEE SHEET 47 FOR -Y6- PROFILE
 SEE SHEET 47 FOR -Y7- PROFILE

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 ricl@carcel

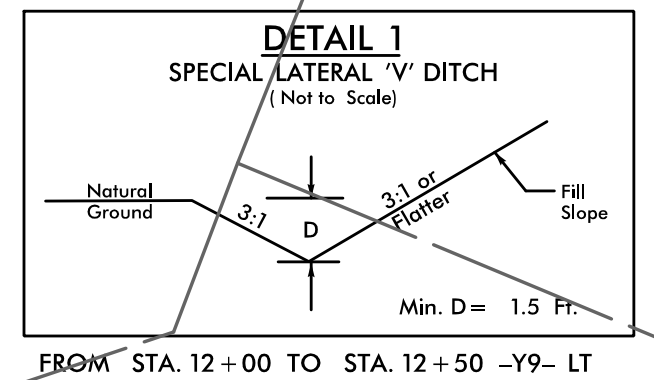
PROJECT REFERENCE NO.	SHEET NO.
U-4405	EC-48/CONST.II
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

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

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

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

NC GRID
MAD 83/NA 2011

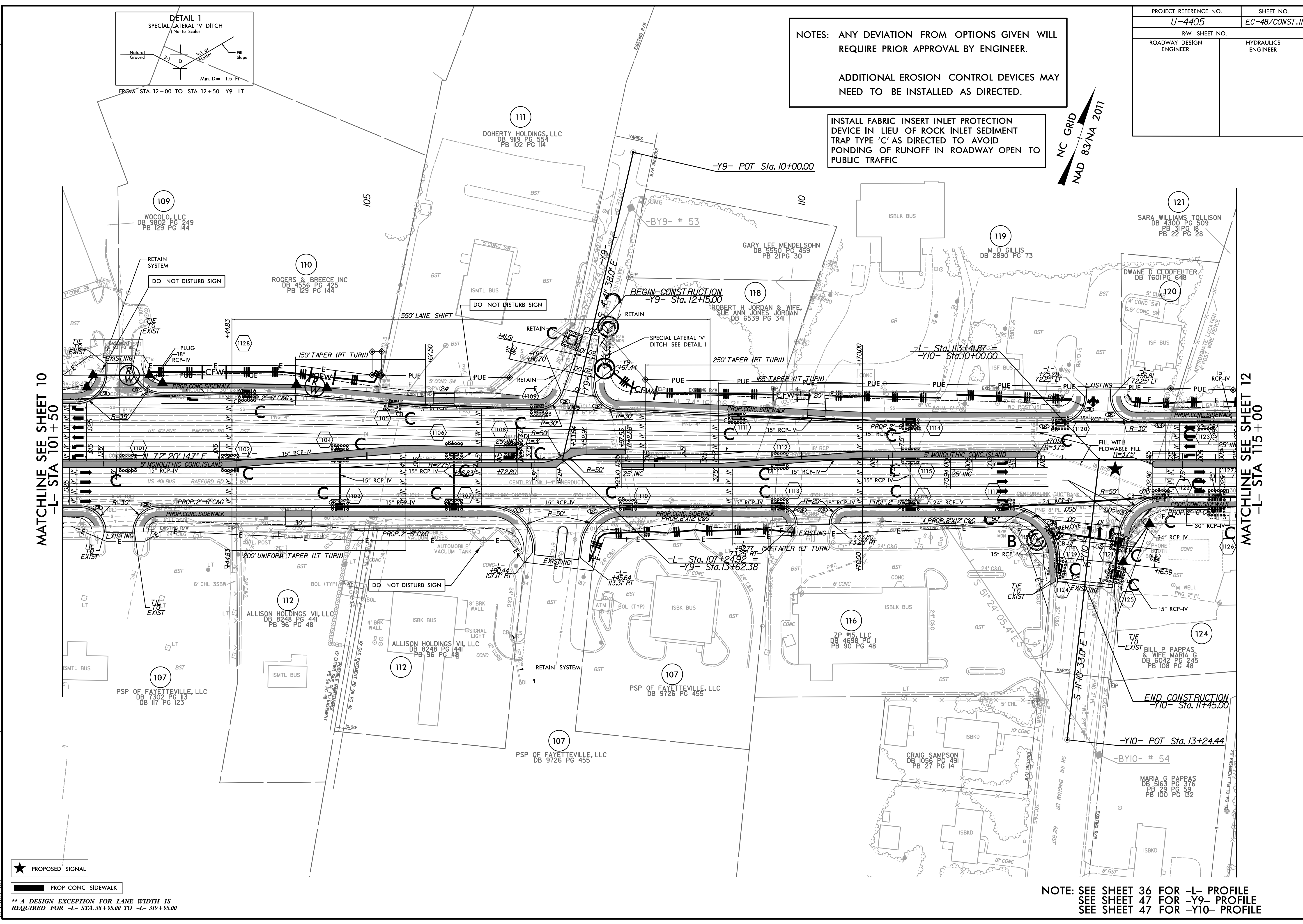


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- ★ PROPOSED SIGNAL
- ▬ PROP CONC SIDEWALK

** A DESIGN EXCEPTION FOR LANE WIDTH IS REQUIRED FOR -L- STA. 38+95.00 TO -L- 319+95.00



MATCHLINE SEE SHEET 10
-L- STA 101 + 50

MATCHLINE SEE SHEET 12
-L- STA 115 + 00

NOTE: SEE SHEET 36 FOR -L- PROFILE
SEE SHEET 47 FOR -Y9- PROFILE
SEE SHEET 47 FOR -Y10- PROFILE

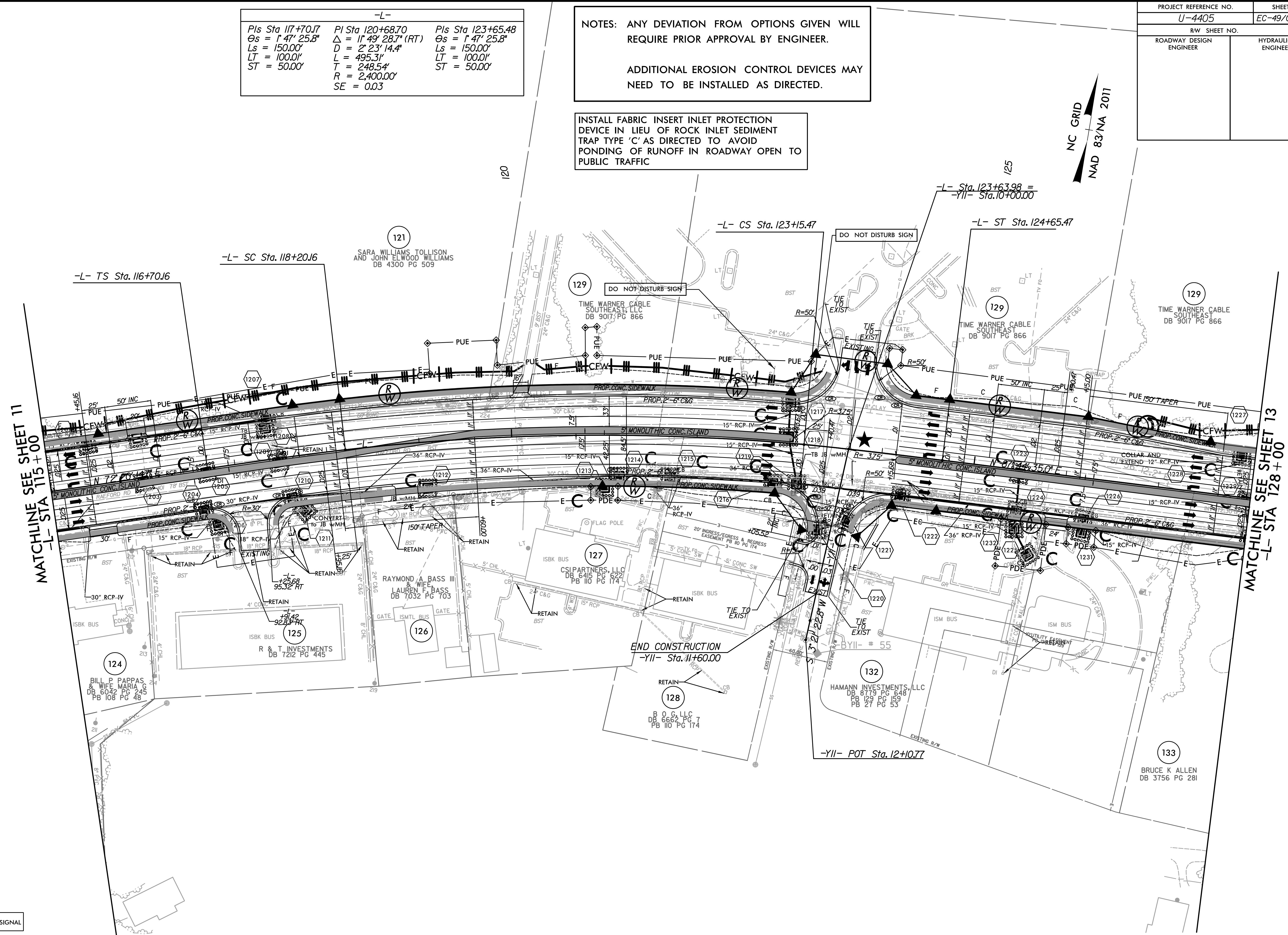
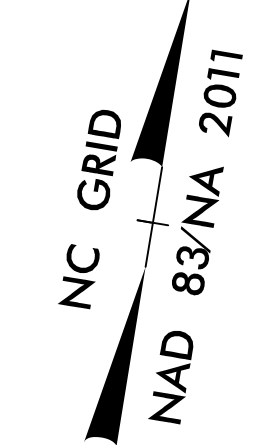
PROJECT REFERENCE NO.	SHEET NO.
U-4405	EC-49/CONST.12
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

-L-		
PIs Sta 117+70.17	PI Sta 120+68.70	PIs Sta 123+65.48
$\theta_s = 1' 47" 25.8"$	$\Delta = 11' 49" 28.7" (RT)$	$\theta_s = 1' 47" 25.8"$
$L_s = 150.00'$	$D = 2' 23" 14.4"$	$L_s = 150.00'$
$LT = 100.00'$	$L = 495.31'$	$LT = 100.00'$
$ST = 50.00'$	$T = 248.54'$	$ST = 50.00'$
	$R = 2,400.00'$	
	$SE = 0.03$	

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

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

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



MATCHLINE SEE SHEET 11
-L- STA 115 + 00

MATCHLINE SEE SHEET 13
-L- STA 128 + 00

- ★ PROPOSED SIGNAL
- ▬ PROP CONC SIDEWALK

** A DESIGN EXCEPTION FOR LANE WIDTH IS REQUIRED FOR -L- STA. 38+95.00 TO -L- 319+95.00

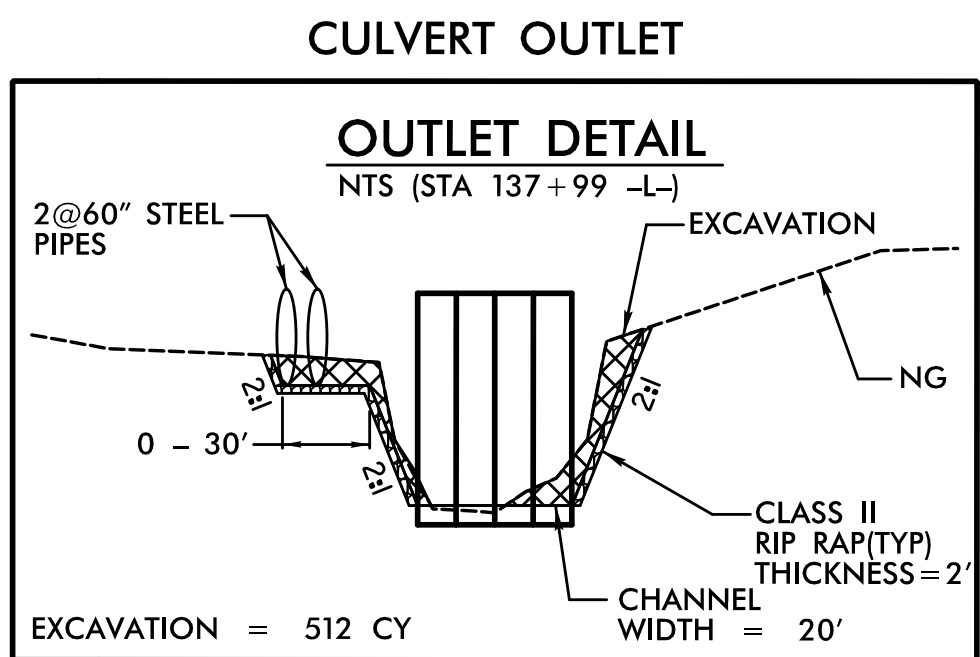
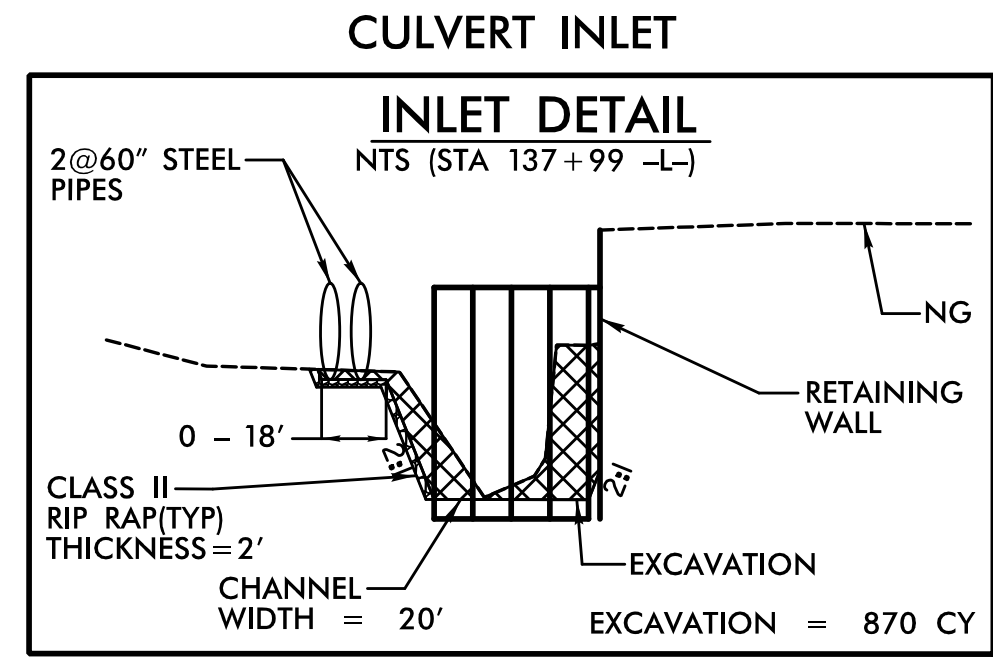
NOTE: SEE SHEET 36 & 37 FOR -L- PROFILE
SEE SHEET 47 FOR -YII- PROFILE

REVISIONS

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PROJECT REFERENCE NO.	SHEET NO.
U-4405	EC-50/CONST.13
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

-L-
 PIs Sta 139+95.56 PI Sta 144+71.01
 $\Delta s = 1' 43' 07.9"$ $\Delta = 19' 18' 58.8" (RT)$
 $Ls = 150.00'$ $D = 2' 17' 30.6"$
 $LT = 100.00'$ $L = 842.83'$
 $ST = 50.00'$ $T = 425.45'$
 $R = 2,500.00'$
 $SE = 0.03$



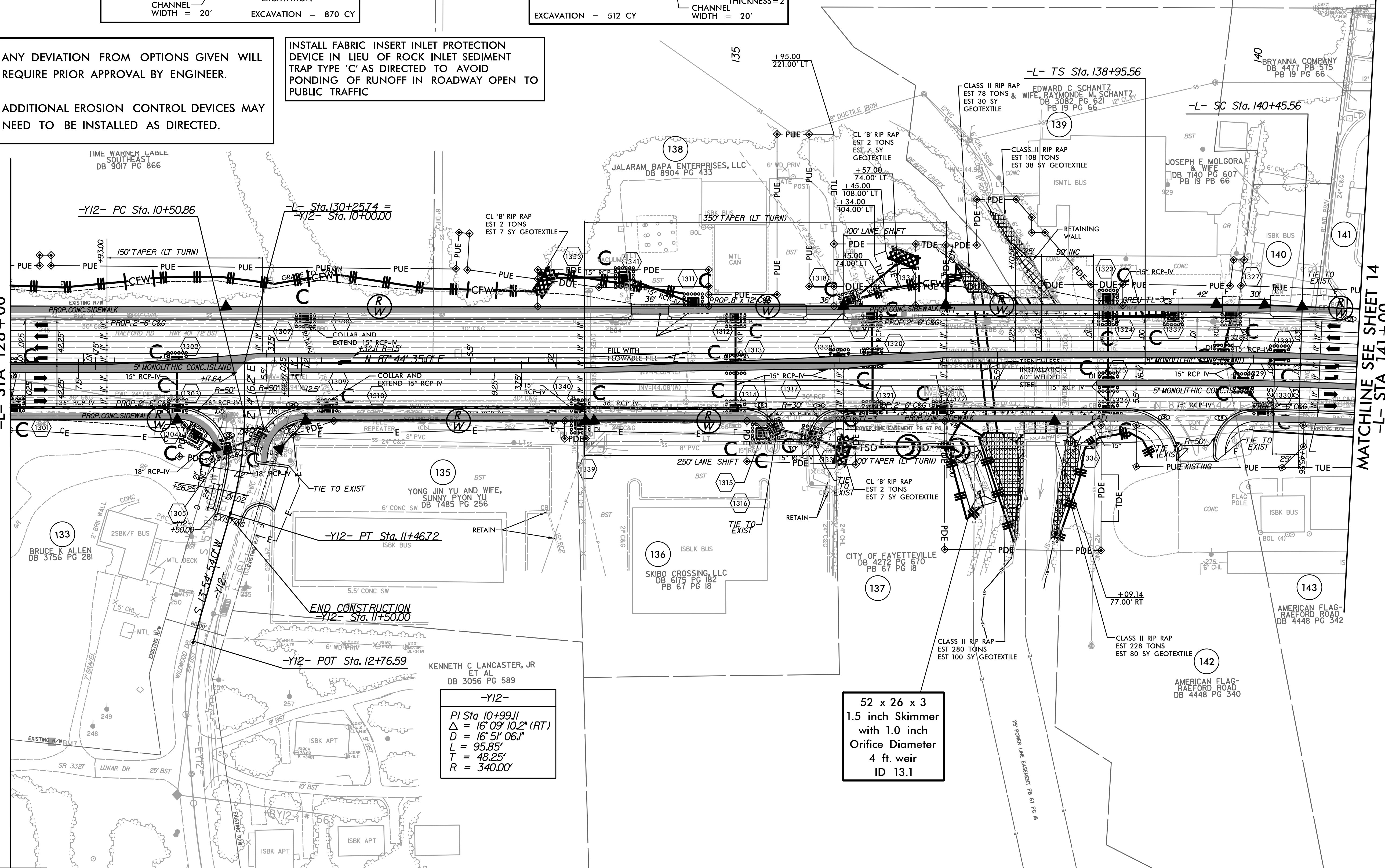
NOTES: ANY DEVIATION FROM OPTIONS GIVEN WILL REQUIRE PRIOR APPROVAL BY ENGINEER.

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

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

MATCHLINE SEE SHEET 12 -L- STA 128+00

MATCHLINE SEE SHEET 14 -L- STA 141+00



-Y12-
 PI Sta 10+99.11
 $\Delta = 16' 09' 10.2" (RT)$
 $D = 16' 51' 06.1"$
 $L = 95.85'$
 $T = 48.25'$
 $R = 340.00'$

52 x 26 x 3
 1.5 inch Skimmer
 with 1.0 inch
 Orifice Diameter
 4 ft. weir
 ID 13.1

NOTE: SEE SHEET 37 FOR -L- PROFILE
 SEE SHEET 47 FOR -Y12- PROFILE

8/17/99
 REVISIONS
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 13/08/2013

** A DESIGN EXCEPTION FOR LANE WIDTH IS REQUIRED FOR -L- STA. 38+95.00 TO -L- 319+95.00

PROJECT REFERENCE NO.	SHEET NO.
U-4405	EC-51/CONST.14
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

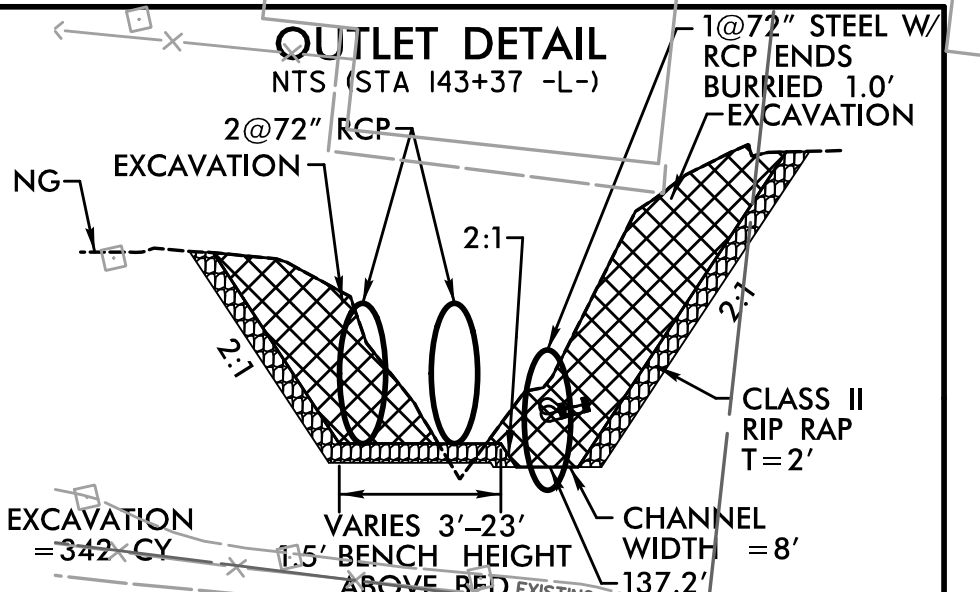
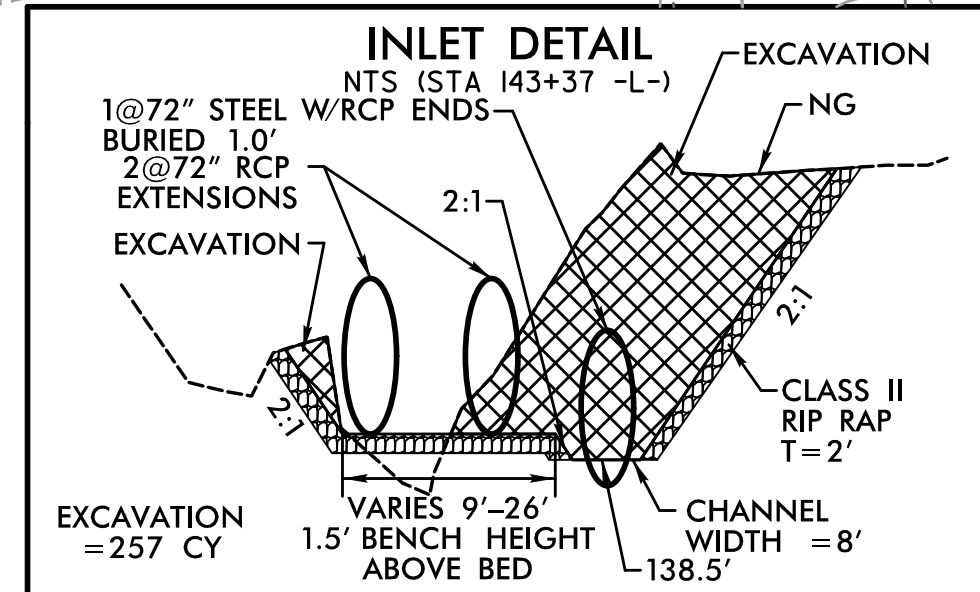
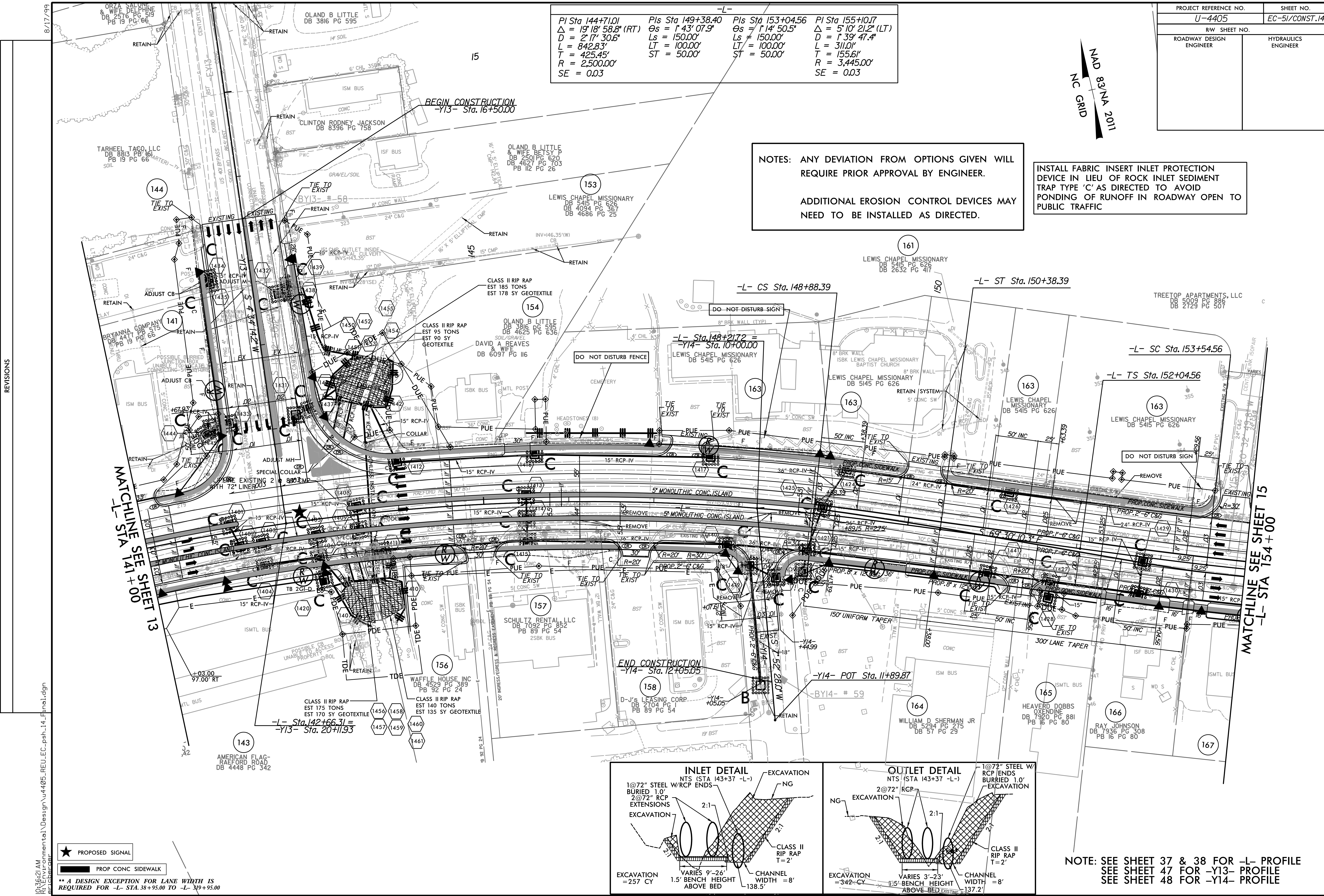
PI Sta 144+71.01 $\Delta = 19' 18" 58.8" (RT)$ $D = 2' 17" 30.6"$ $L = 842.83'$ $T = 425.45'$ $R = 2,500.00'$ $SE = 0.03$	Pls Sta 149+38.40 $\Theta_s = 1' 43" 07.9"$ $Ls = 150.00'$ $LT = 100.00'$ $ST = 50.00'$	Pls Sta 153+04.56 $\Theta_s = 1' 14" 50.5"$ $Ls = 150.00'$ $LT = 100.00'$ $ST = 50.00'$	PI Sta 155+10.17 $\Delta = 5' 10" 21.2" (LT)$ $D = 1' 39" 47.4"$ $L = 311.01'$ $T = 155.61'$ $R = 3,445.00'$ $SE = 0.03$
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NAD 83/NA 2011
NC GRID

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

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

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



NOTE: SEE SHEET 37 & 38 FOR -L- PROFILE
SEE SHEET 47 FOR -Y13- PROFILE
SEE SHEET 48 FOR -Y14- PROFILE

REVISIONS

★ PROPOSED SIGNAL

▬ PROP CONC SIDEWALK

** A DESIGN EXCEPTION FOR LANE WIDTH IS REQUIRED FOR -L- STA. 38+95.00 TO -L- 319+95.00

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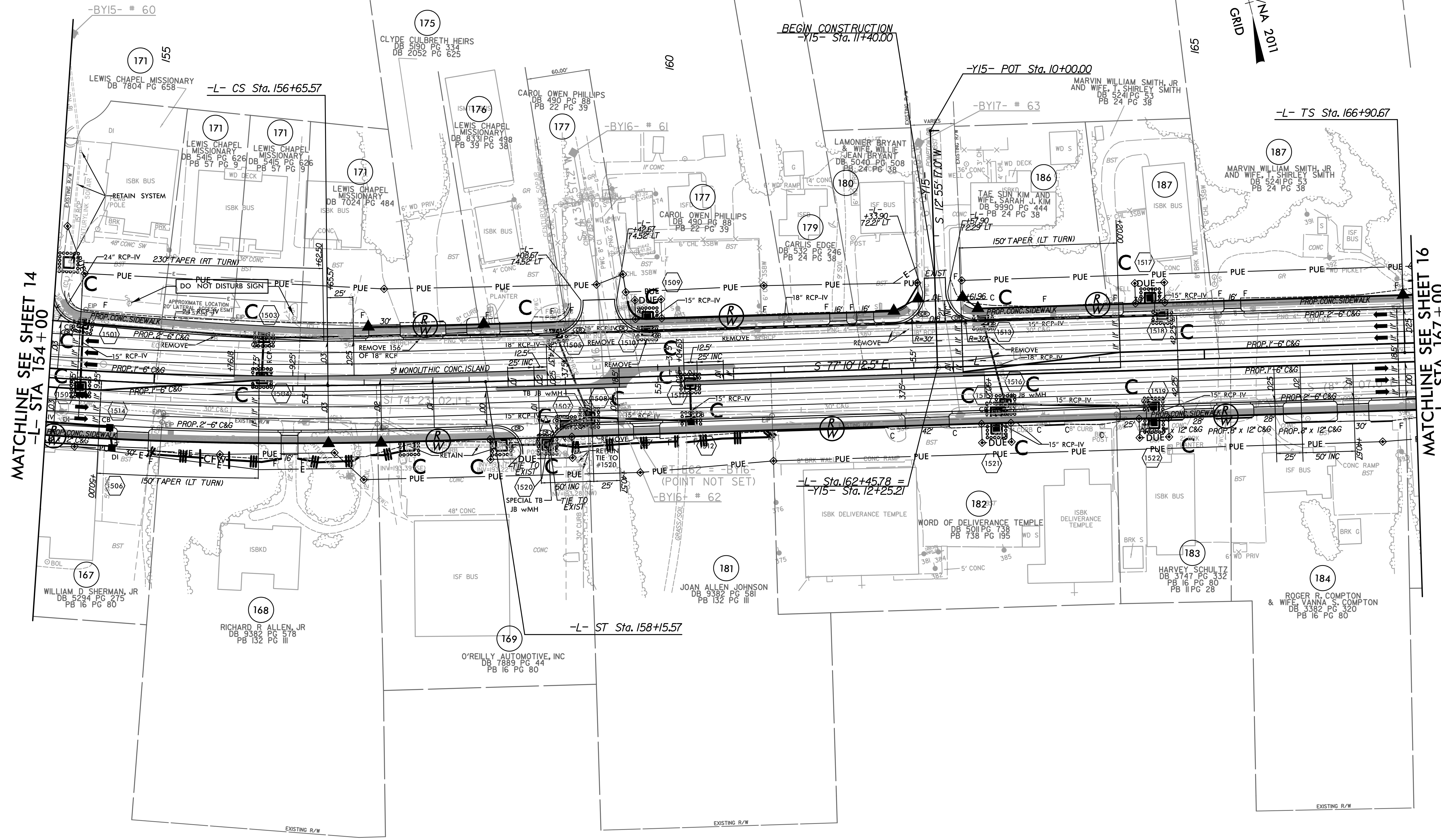
PROJECT REFERENCE NO.	SHEET NO.
U-4405	EC-52/CONST.15
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

-L-		
PI Sta 155+10.7	Pls Sta 157+15.57	Pls Sta 167+90.68
$\Delta = 5' 10" 21.2" (LT)$	$\Theta_s = 1' 14" 50.5"$	$\Theta_s = 2' 14" 59.4"$
$D = 1' 39" 47.4"$	$L_s = 150.00'$	$L_s = 150.00'$
$L = 311.0'$	$LT = 100.00'$	$LT = 100.00'$
$T = 155.6'$	$ST = 50.00'$	$ST = 50.00'$
$R = 3,445.00'$		
$SE = 0.03$		

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

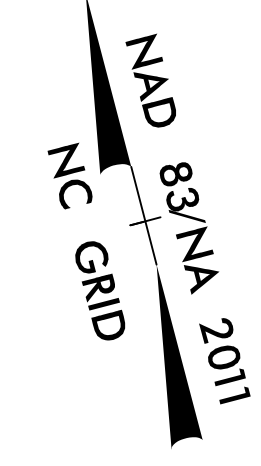
ADDITIONAL EROSION CONTROL DEVICES MAY NEED TO BE INSTALLED AS DIRECTED.

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



MATCHLINE SEE SHEET 14
-L- STA 154+00

MATCHLINE SEE SHEET 16
-L- STA 167+00



REVISIONS

PROP CONC SIDEWALK

** A DESIGN EXCEPTION FOR LANE WIDTH IS REQUIRED FOR -L- STA. 38+95.00 TO -L- 319+95.00

NOTE: SEE SHEET 38 FOR -L- PROFILE
SEE SHEET 48 FOR -Y15- PROFILE

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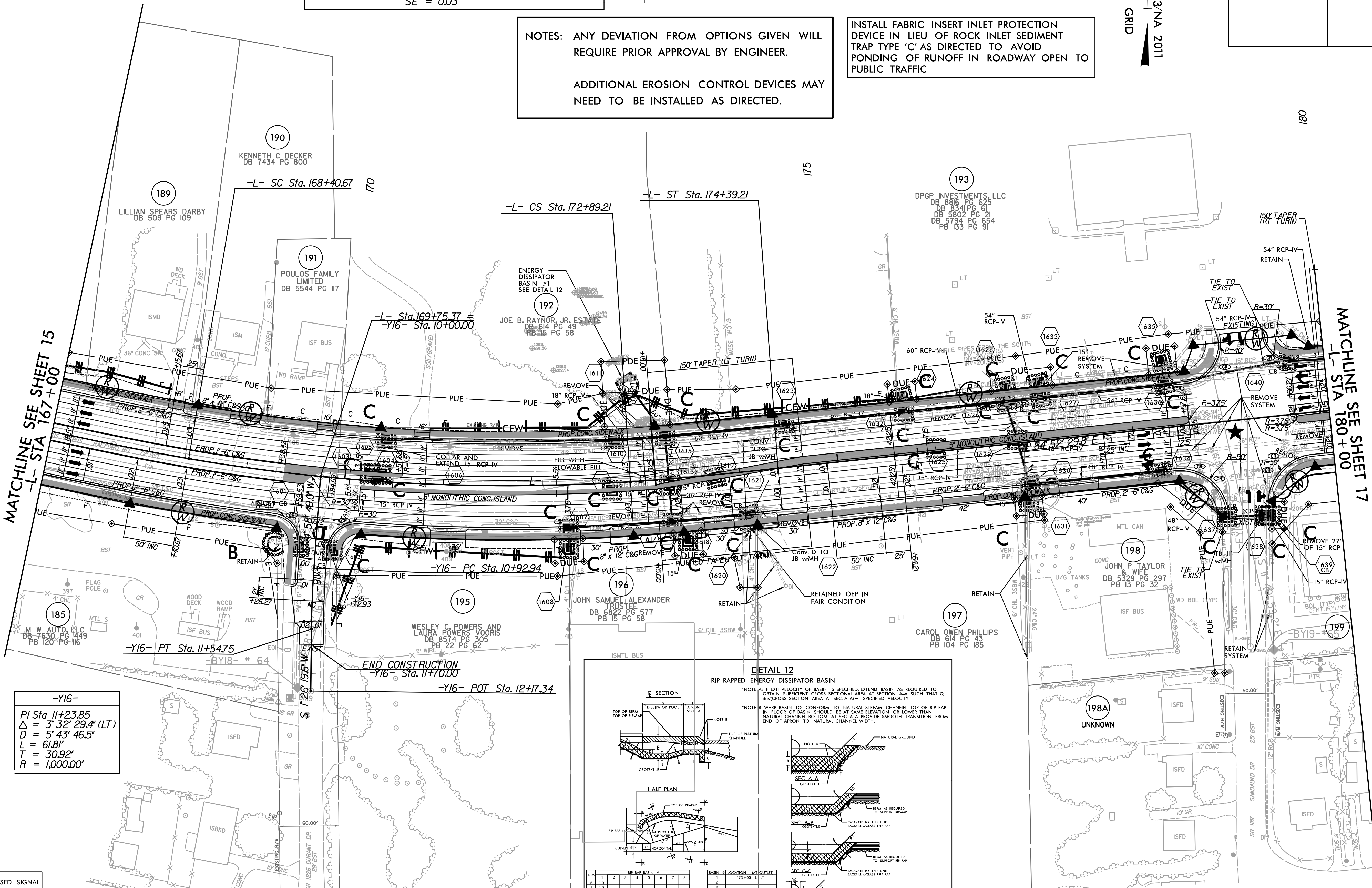
NAD 83/NA 2011
NC GRID

-L-		
Pls Sta 167+90.68	Pl Sta 170+65.98	Pls Sta 173+39.22
Os = 2' 14" 59.4"	Δ = 13' 27" 18.9" (LT)	Os = 2' 14" 59.4"
Ls = 150.00'	D = 2' 59" 59.2"	Ls = 150.00'
LT = 100.01'	L = 448.54'	LT = 100.01'
ST = 50.01'	T = 225.31'	ST = 50.01'
	R = 1,910.00'	
	SE = 0.03	

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

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

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

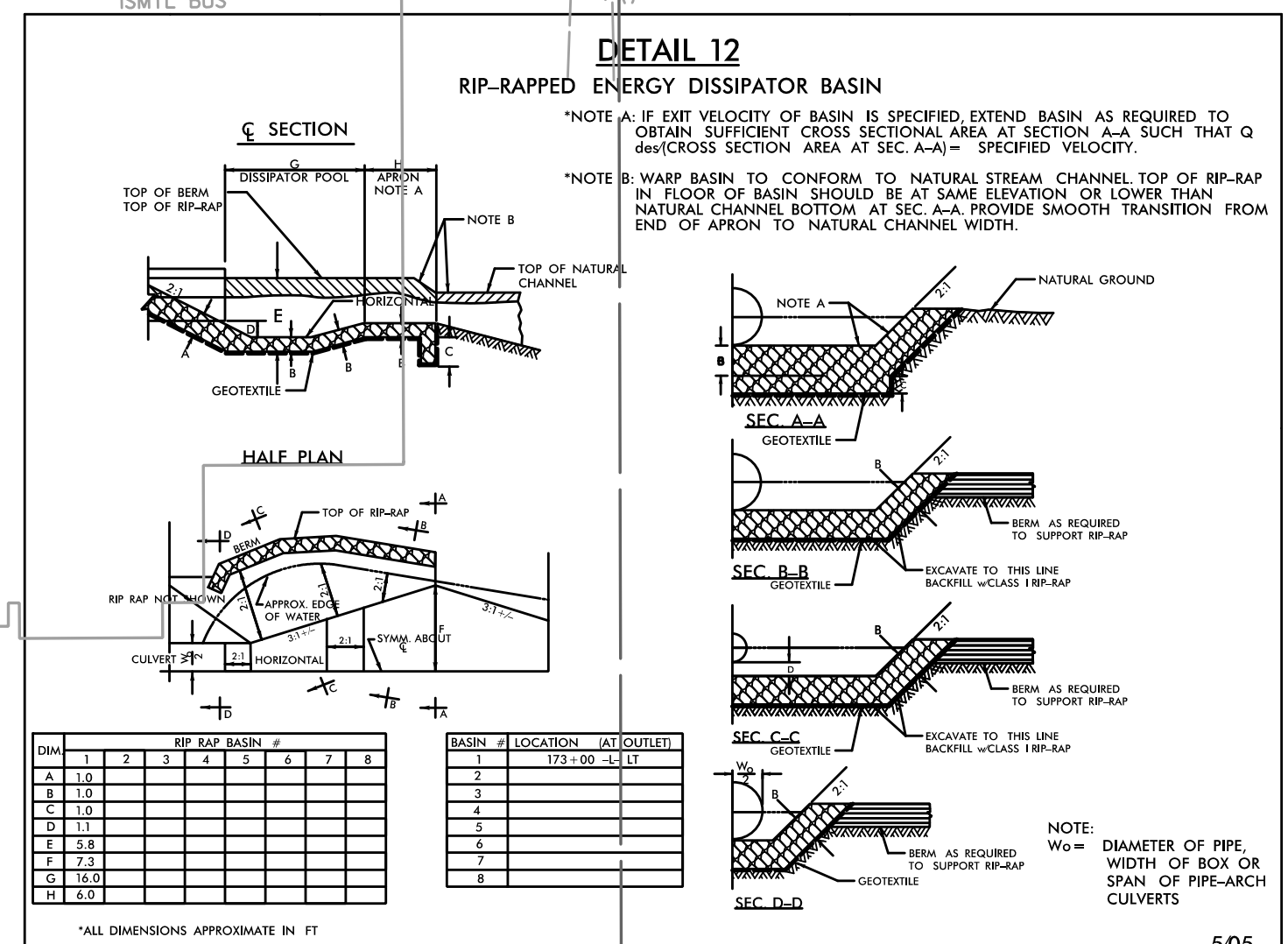


MATCHLINE SEE SHEET 15
-L- STA 167+00

MATCHLINE SEE SHEET 17
-L- STA 180+00

-Y16-	
PI Sta 11+23.85	
Δ = 3' 32" 29.4" (LT)	
D = 5' 43" 46.5"	
L = 61.81'	
T = 30.92'	
R = 1,000.00'	

END CONSTRUCTION
-Y16- STA. 11+70.00



RIP RAP BASIN #							
D/W	1	2	3	4	5	6	7
A	1.0						
B	1.0						
C	1.0						
D	1.0						
E	1.0						
F	1.0						
G	1.0						
H	1.0						

★ PROPOSED SIGNAL

█ PROP CONC SIDEWALK

** A DESIGN EXCEPTION FOR LANE WIDTH IS REQUIRED FOR -L- STA. 38+95.00 TO -L- 319+95.00

NOTE: SEE SHEET 38 & 39 FOR -L- PROFILE
SEE SHEET 48 FOR -Y16- PROFILE

8/17/99
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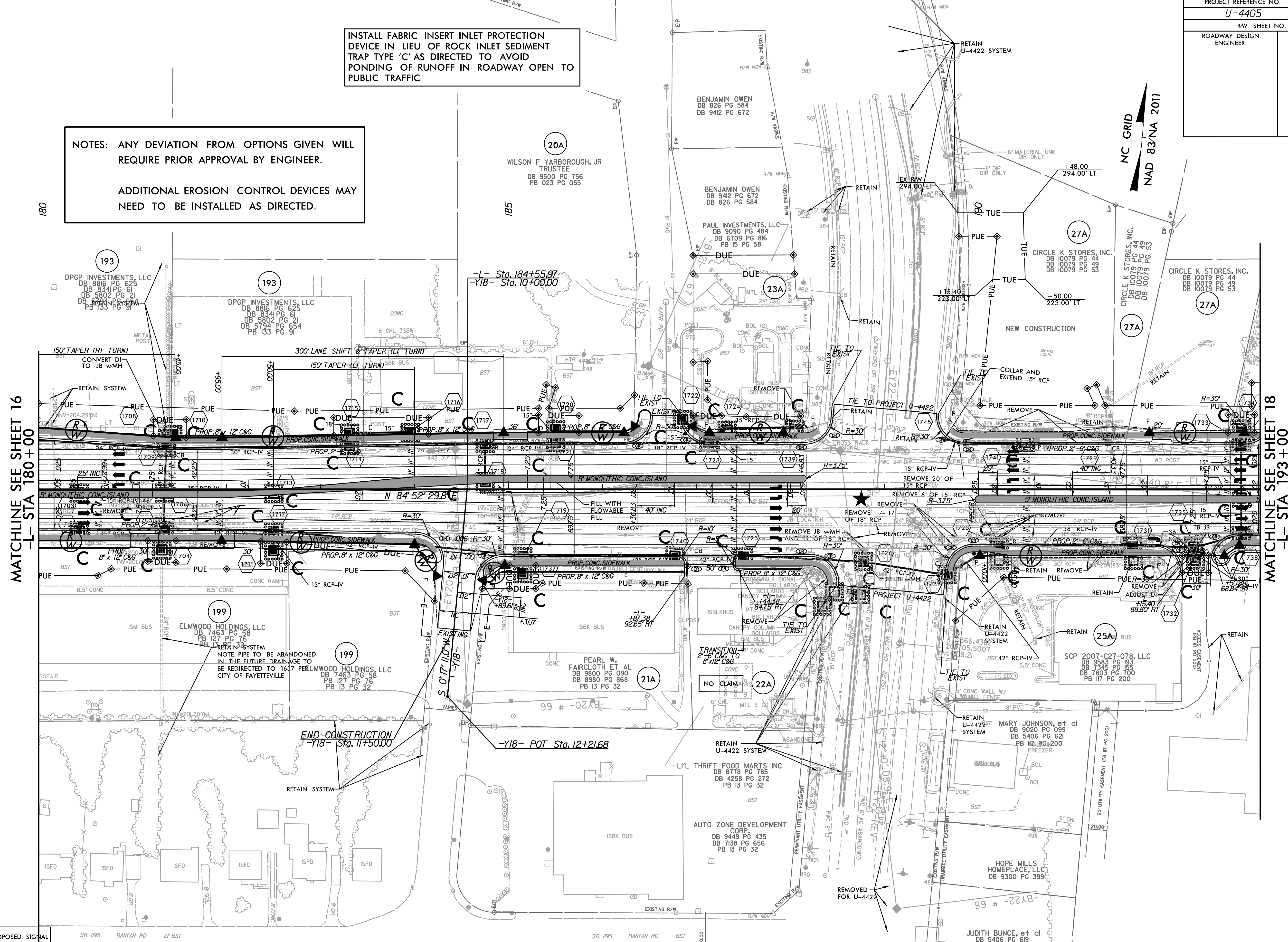
PROJECT REFERENCE NO.	SHEET NO.
U-4405	EC-54/CONST.17
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

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

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

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

NC GRID
NAD 83/NA 2011



MATCHLINE SEE SHEET 16
-L- STA 180+00

MATCHLINE SEE SHEET 18
-L- STA 193+00

REVISIONS

★ PROPOSED SIGNAL

▬ PROP CONC SIDEWALK

** A DESIGN EXCEPTION FOR LANE WIDTH IS REQUIRED FOR -L- STA. 38+95.00 TO -L- 319+95.00

NOTE: SEE SHEET 39 FOR -L- PROFILE
SEE SHEET 48 FOR -Y18- PROFILE

8/17/99
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PROJECT REFERENCE NO.	SHEET NO.
U-4405	EC-55/CONST.18
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

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

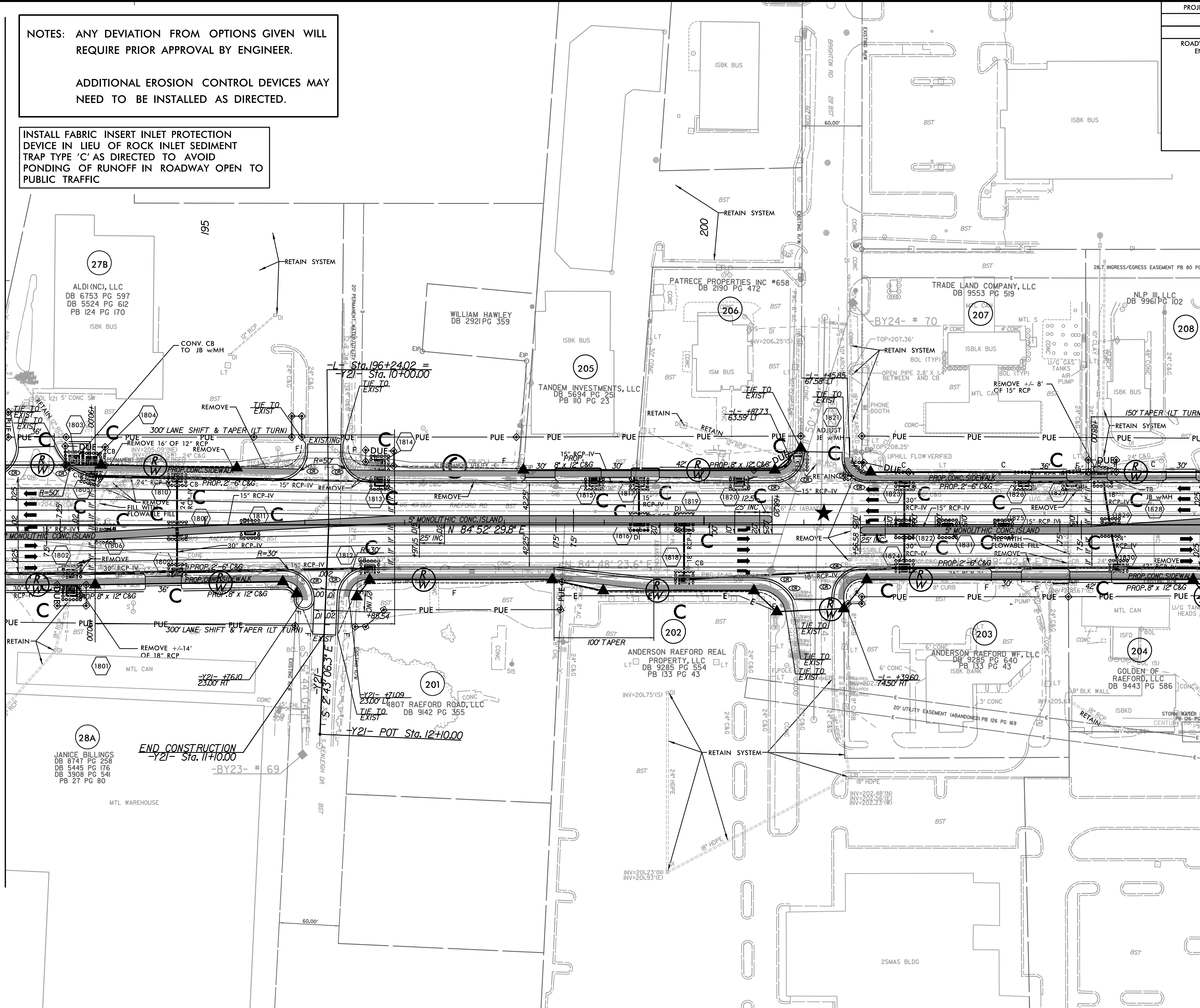
ADDITIONAL EROSION CONTROL DEVICES MAY NEED TO BE INSTALLED AS DIRECTED.

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

NC GRID
NAD 83/NA 2011

MATCHLINE SEE SHEET 17
-L- STA 193+00

MATCHLINE SEE SHEET 19
-L- STA 205+00



REVISIONS

★ PROPOSED SIGNAL

■ PROP CONC SIDEWALK

** A DESIGN EXCEPTION FOR LANE WIDTH IS REQUIRED FOR -L- STA. 38+95.00 TO -L- 319+95.00

NOTE: SEE SHEET 39 FOR -L- PROFILE
SEE SHEET 48 FOR -Y21- PROFILE

8/17/99

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PROJECT REFERENCE NO.	SHEET NO.
U-4405	EC-56/CONST.19
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

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

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

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

-L-
 PI Sta 215+19.81
 $\Delta = 2' 4" 44.8" (RT)$
 $D = 0' 34' 22.6"$
 $L = 470.50'$
 $T = 235.29'$
 $R = 10,000.00'$
 SE = NC

NC GRID
 NAD 83/NA 2011

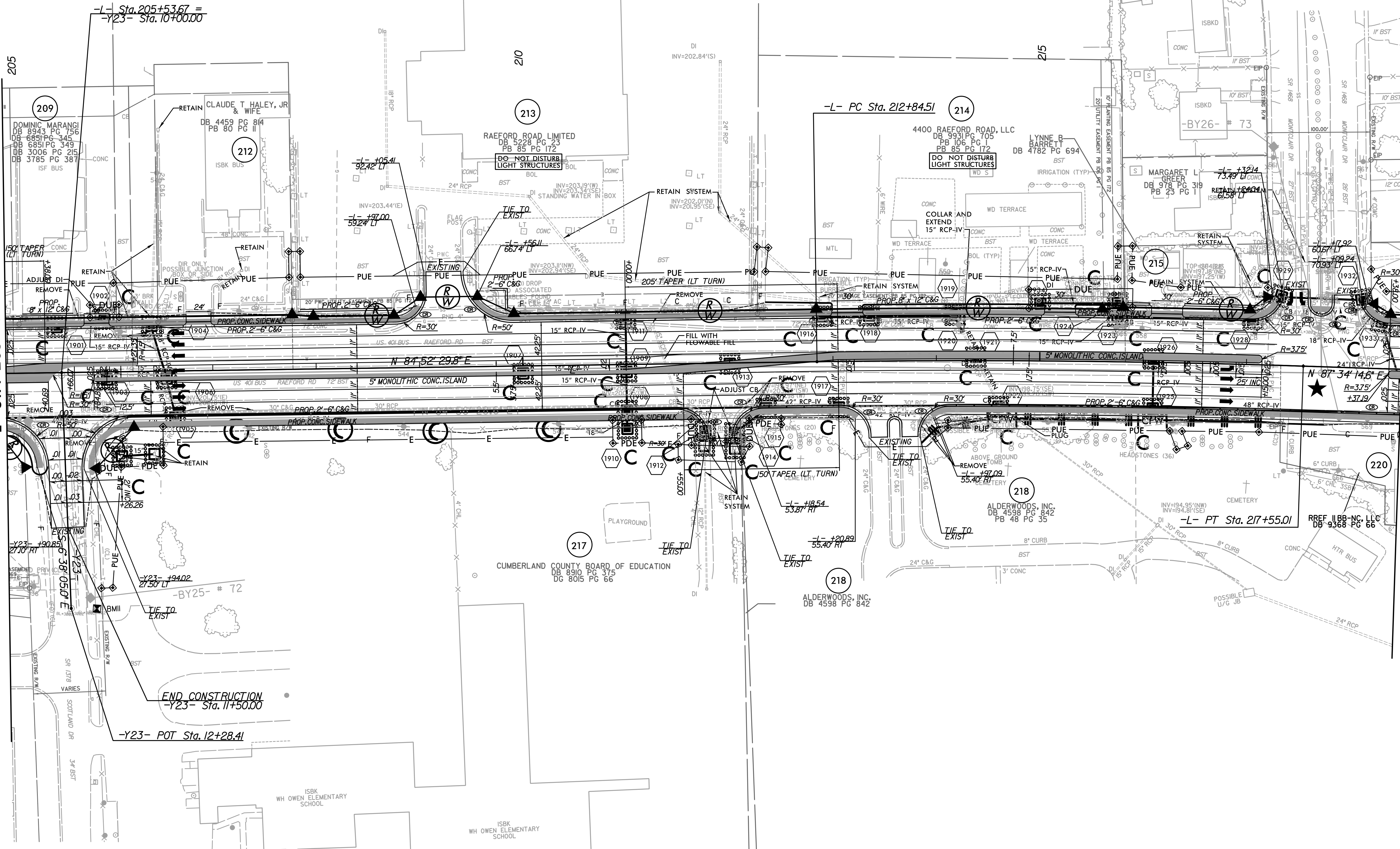
MATCHLINE SEE SHEET 18
 -L- STA 205+00

MATCHLINE SEE SHEET 20
 -L- STA 218+50

8/17/99
 REVISIONS
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★ PROPOSED SIGNAL
 █ PROP CONC SIDEWALK
 ** A DESIGN EXCEPTION FOR LANE WIDTH IS REQUIRED FOR -L- STA. 38+95.00 TO -L- 319+95.00

NOTE: SEE SHEET 39 & 40 FOR -L- PROFILE
 SEE SHEET 48 FOR -Y23- PROFILE



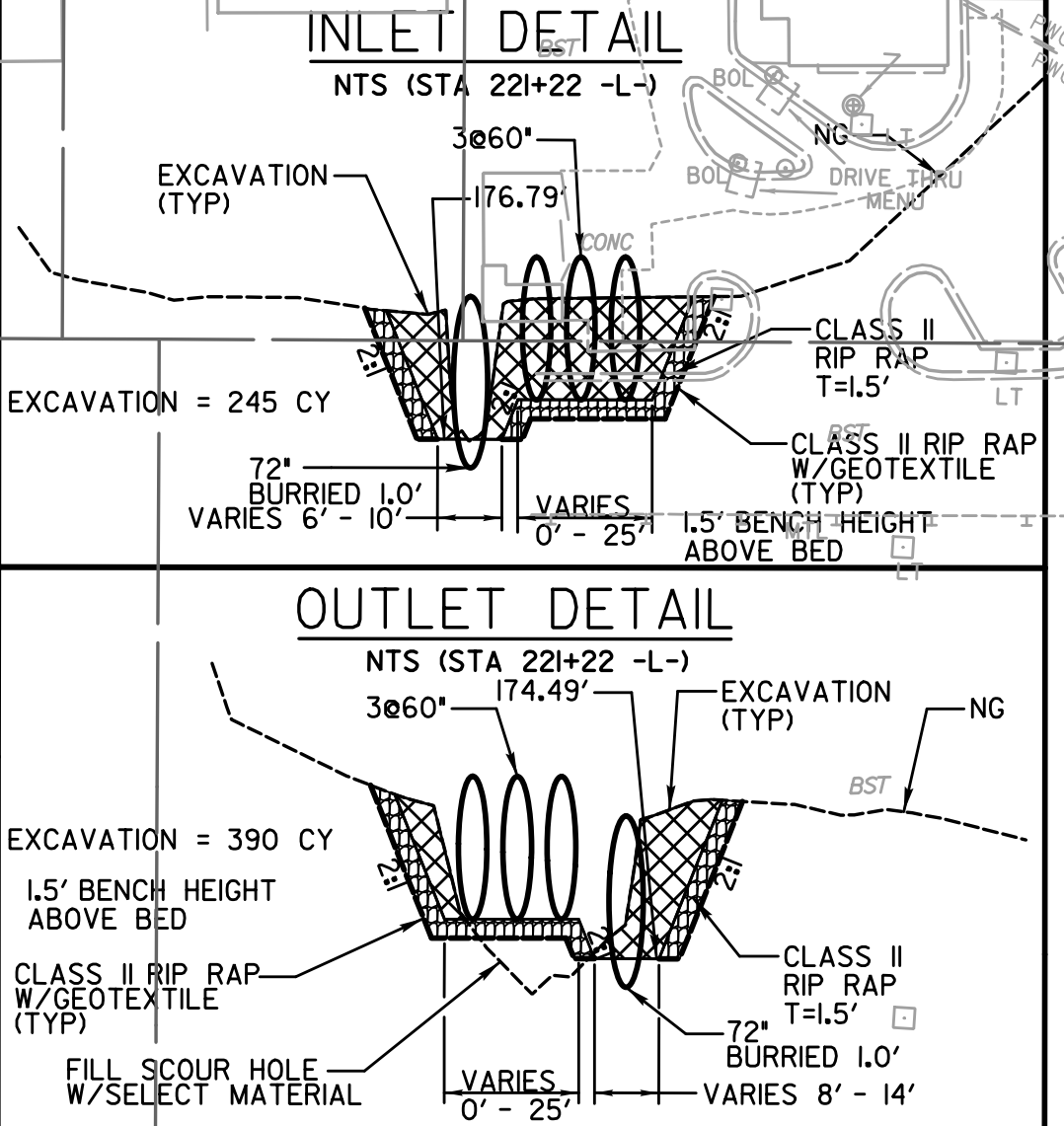
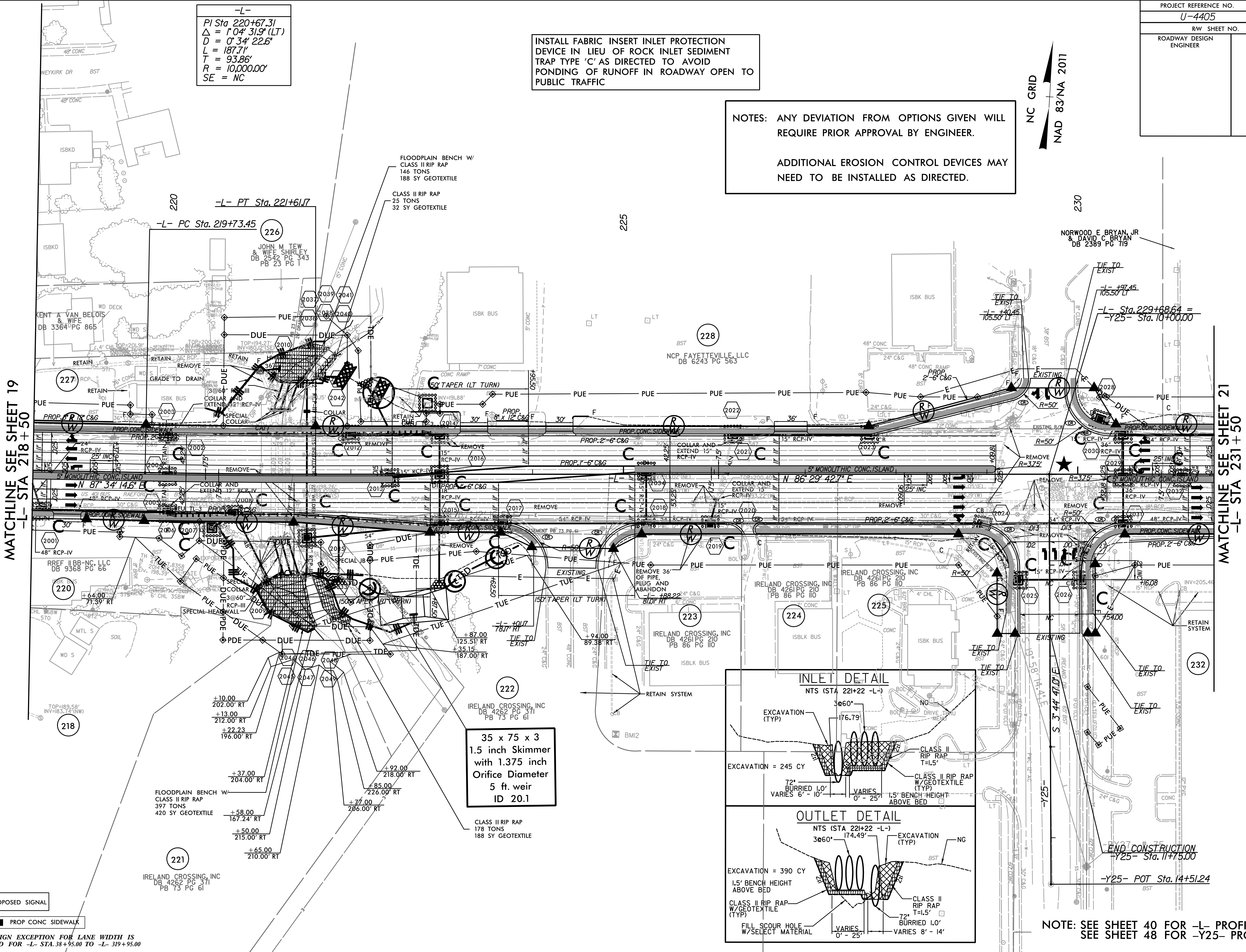
PROJECT REFERENCE NO.	SHEET NO.
U-4405	EC-57/CONST. 20
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

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

NOTES: ANY DEVIATION FROM OPTIONS GIVEN WILL REQUIRE PRIOR APPROVAL BY ENGINEER.
ADDITIONAL EROSION CONTROL DEVICES MAY NEED TO BE INSTALLED AS DIRECTED.

NC GRID
NAD 83/NA 2011

-L-
PI Sta 220+67.31
 $\Delta = 1^{\circ}04'31.9" (LT)$
 $D = 0^{\circ}34'22.6"$
 $L = 187.71'$
 $T = 93.86'$
 $R = 10,000.00'$
 $SE = NC$



** A DESIGN EXCEPTION FOR LANE WIDTH IS REQUIRED FOR -L- STA. 38+95.00 TO -L- 319+95.00

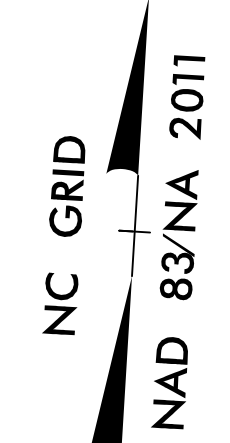
NOTE: SEE SHEET 40 FOR -L- PROFILE
SEE SHEET 48 FOR -Y25- PROFILE

PROJECT REFERENCE NO.	SHEET NO.
U-4405	EC-58/CONST.21
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

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

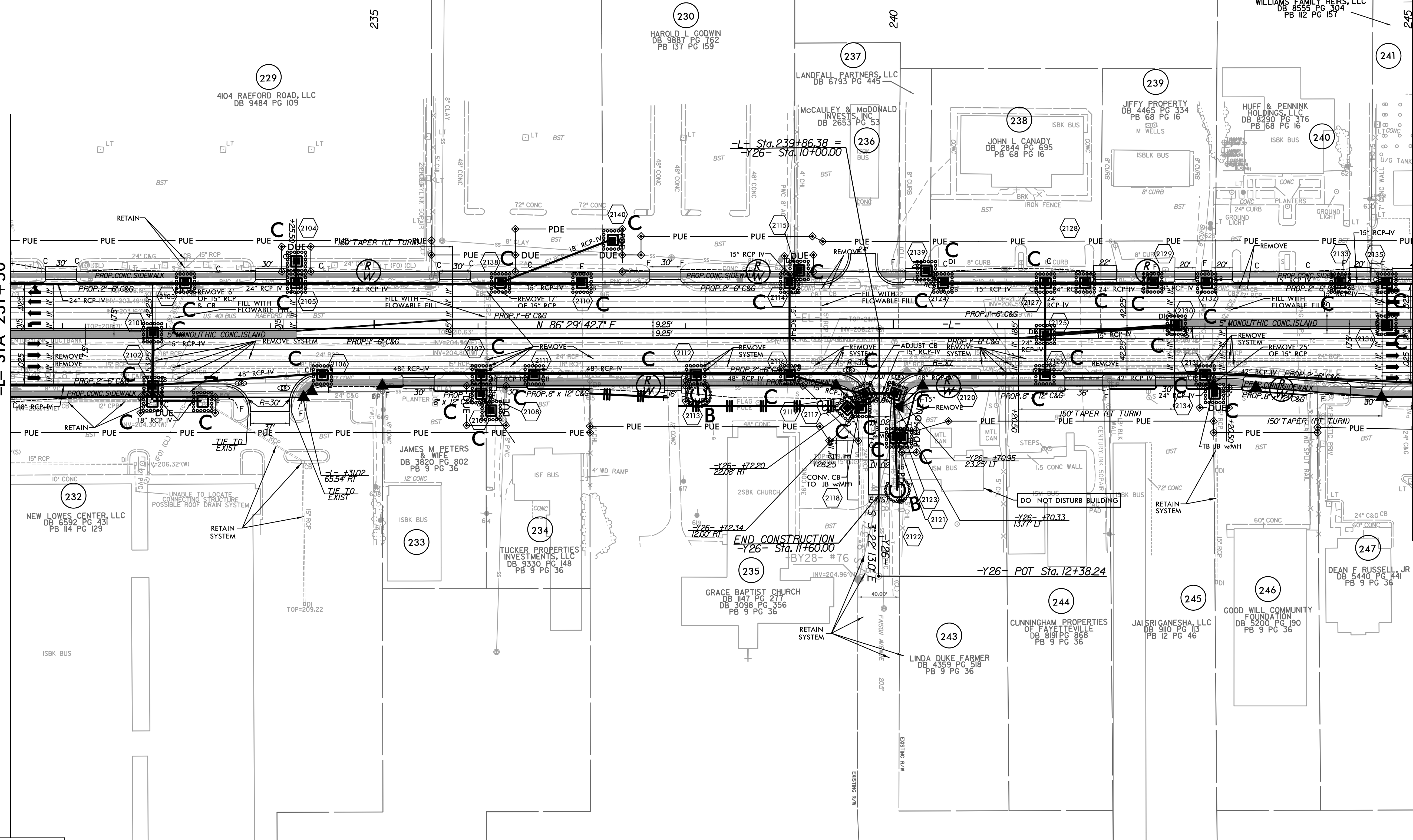
ADDITIONAL EROSION CONTROL DEVICES MAY NEED TO BE INSTALLED AS DIRECTED.

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



MATCHLINE SEE SHEET 20
-L- STA 231+50

MATCHLINE SEE SHEET 22
-L- STA 245+00



REVISIONS

PROP CONC SIDEWALK
 ** A DESIGN EXCEPTION FOR LANE WIDTH IS REQUIRED FOR -L- STA. 38+95.00 TO -L- 319+95.00

NOTE: SEE SHEET 40 & 41 FOR -L- PROFILE
 SEE SHEET 48 FOR -Y26- PROFILE

8/17/99
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 ENC:\bcb\ec

PROJECT REFERENCE NO. U-4405	SHEET NO. EC-59/CONST.22
RW SHEET NO.	HYDRAULICS ENGINEER
ROADWAY DESIGN ENGINEER	

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

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

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

-L-
 Pls Sta 257+51.40
 $\Delta s = 0' 31' 15.1''$
 $L_s = 100.00'$
 $LT = 66.67'$
 $ST = 33.33'$

Pl Sta 258+20.74
 $\Delta = 0' 45' 00.9''$ (LT)
 $D = 1' 02' 30.3''$
 $L = 72.02'$
 $T = 36.01'$
 $R = 5,500.00'$
 $SE = 0.025$

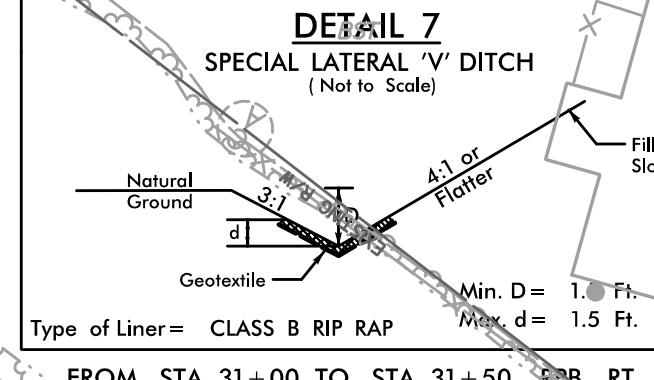
-RPB-
 Pl Sta 31+40.19
 $\Delta = 14' 06' 13.2''$ (RT)
 $D = 6' 21' 58.3''$
 $L = 221.54'$
 $T = 111.33'$
 $R = 900.00'$
 $SE = 0.08$

-AA-
 Pls Sta 37+96.65
 $\Delta s = 5' 00' 00.0''$
 $L_s = 400.00'$
 $LT = 266.77'$
 $ST = 133.43'$

NC GRID
 NAD 83/NA 2011

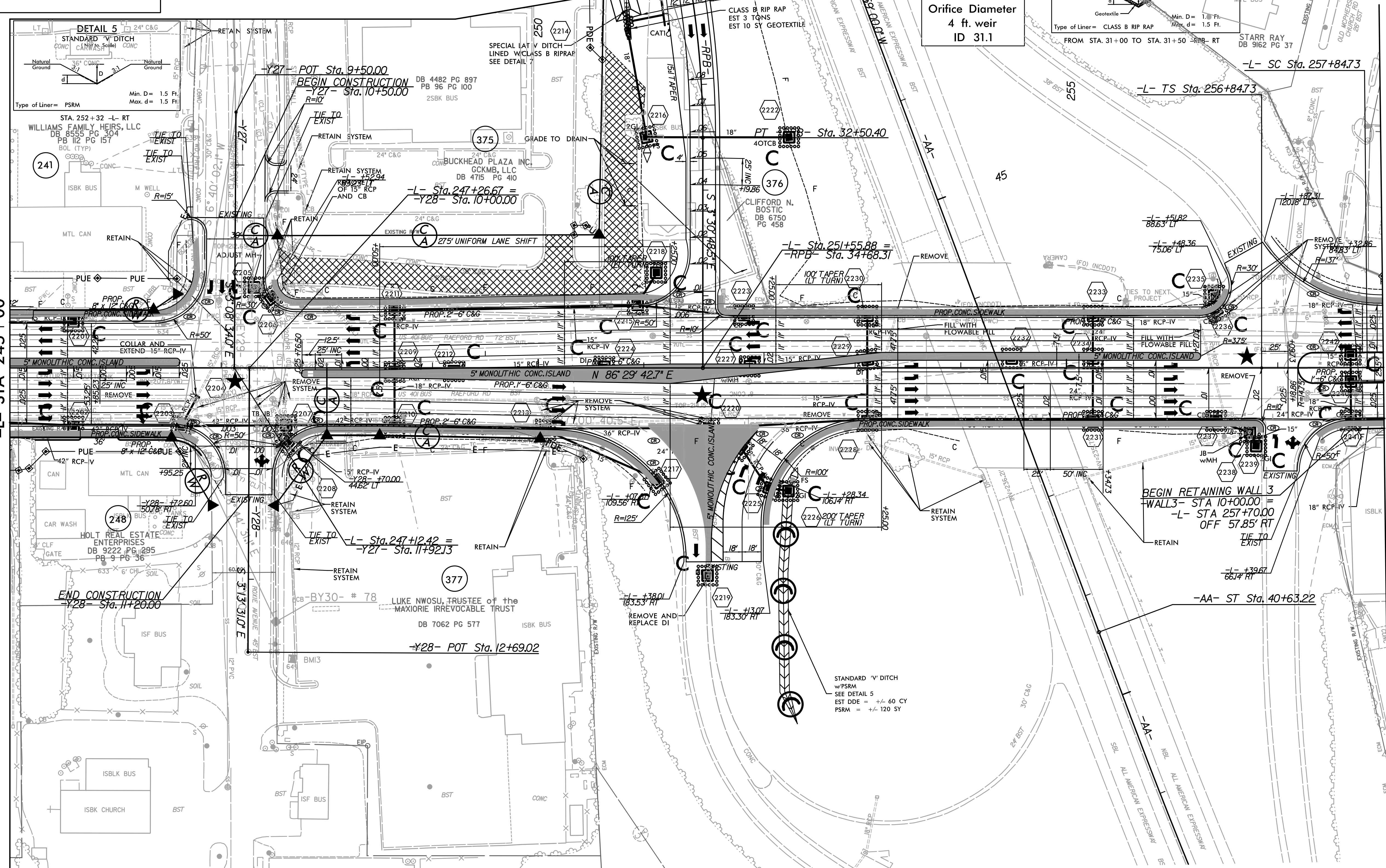
MATCHLINE SEE SHEET 31
 -RPB- STA 31+00

48 x 24 x 3
 1.5 inch Skimmer
 with 0.875 inch
 Orifice Diameter
 4 ft. weir
 ID 31.1



MATCHLINE SEE SHEET 21
 -L- STA 245+00

MATCHLINE SEE SHEET 23
 -L- STA 258+00



NOTE: SEE SHEET 41 FOR -L- PROFILE
 SEE SHEET 49 FOR -Y28- PROFILE
 SEE SHEET 45 FOR -RPB- PROFILE

★ PROPOSED SIGNAL
 ■ PROP CONC SIDEWALK

** A DESIGN EXCEPTION FOR LANE WIDTH IS REQUIRED FOR -L- STA. 38+95.00 TO -L- 319+95.00

REVISIONS

8/17/99
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PROJECT REFERENCE NO.	SHEET NO.
U-4405	EC-60/CONST.23
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

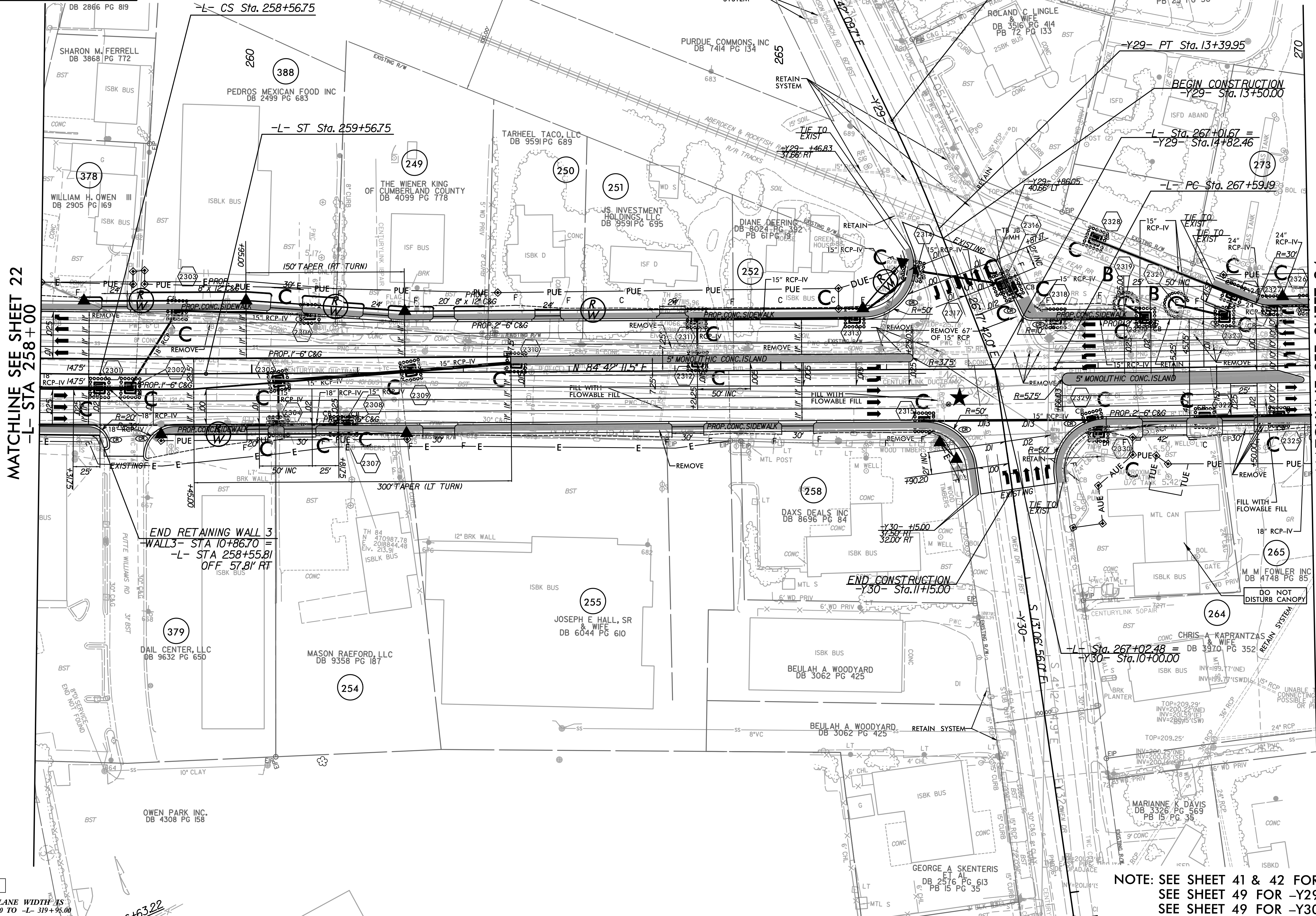
NOTES: ANY DEVIATION FROM OPTIONS GIVEN WILL REQUIRE PRIOR APPROVAL BY ENGINEER.

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

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

-L-
 Pls Sta 258+90.08
 $\theta_s = 0^\circ 31' 15.1''$
 $L_s = 100.00'$
 $LT = 66.67'$
 $ST = 33.33'$

-Y29-
 PI Sta 12+84.20
 $\Delta = 4^\circ 24' 27.7'' (RT)$
 $D = 3^\circ 57' 05.2''$
 $L = 111.55'$
 $T = 55.80'$
 $R = 1,450.00'$



NC GRID
 NAD 83/NA 2011

MATCHLINE SEE SHEET 22
 -L- STA 258+00

MATCHLINE SEE SHEET 24
 -L- STA 270+00

- ★ PROPOSED SIGNAL
- ▬ PROP CONC SIDEWALK

** A DESIGN EXCEPTION FOR LANE WIDTH IS REQUIRED FOR -L- STA. 38+95.00 TO -L- 319+95.00

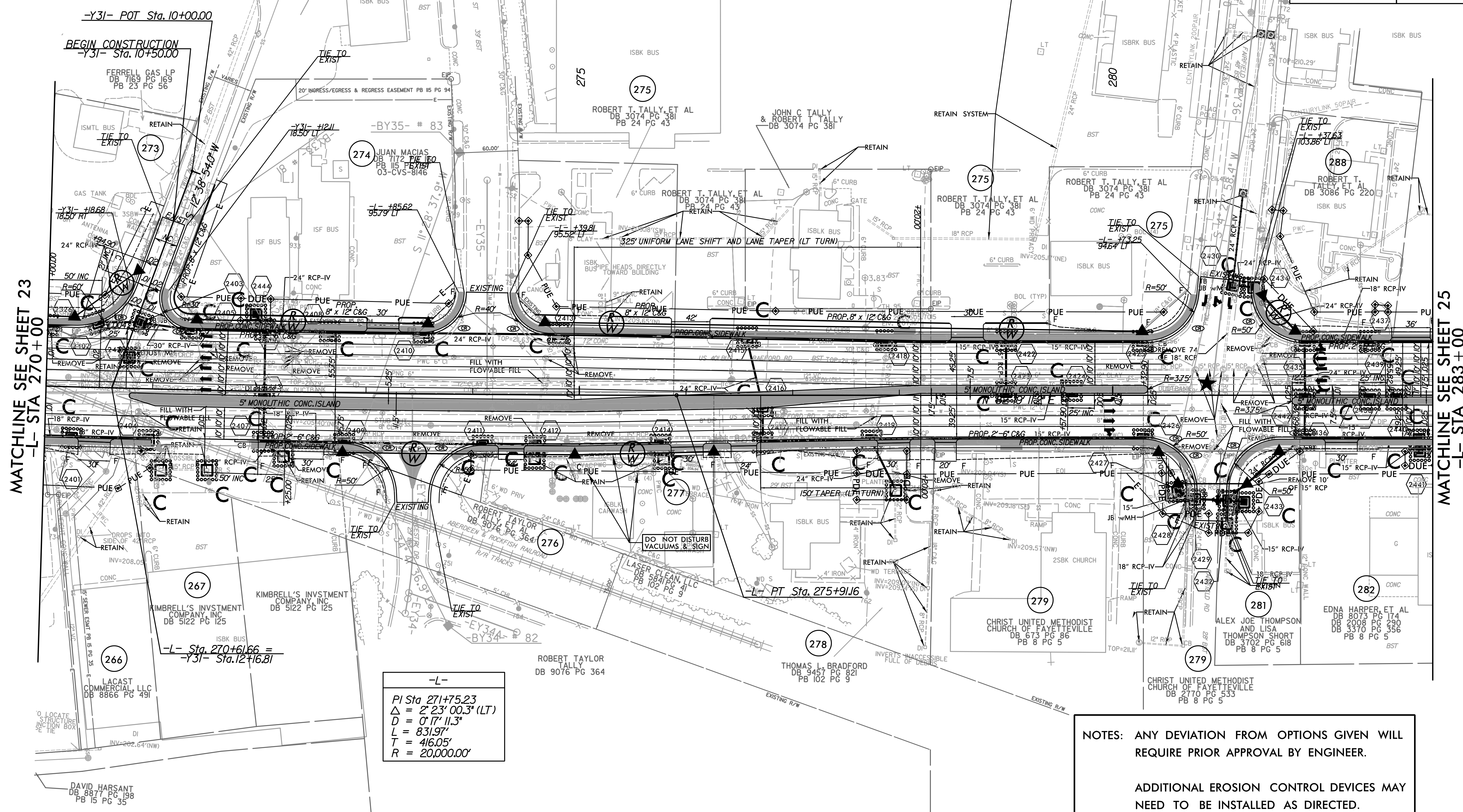
NOTE: SEE SHEET 41 & 42 FOR -L- PROFILE
 SEE SHEET 49 FOR -Y29- PROFILE
 SEE SHEET 49 FOR -Y30- PROFILE

REVISIONS

8/17/99
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PROJECT REFERENCE NO.	SHEET NO.
U-4405	EC-61/CONST.24
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

NC GRID
NAD 83/NA 2011



MATCHLINE SEE SHEET 23
-L- STA 270+00

MATCHLINE SEE SHEET 25
-L- STA 283+00

-L-
PI Sta 271+75.23
 $\Delta = 2' 23'' 00.3''$ (LT)
 $D = 0' 17'' 11.3''$
 $L = 831.97'$
 $T = 416.05'$
 $R = 20,000.00'$

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

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

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

NOTE: SEE SHEET 42 FOR -L- PROFILE
SEE SHEET 49 FOR -Y31- PROFILE

★ PROPOSED SIGNAL

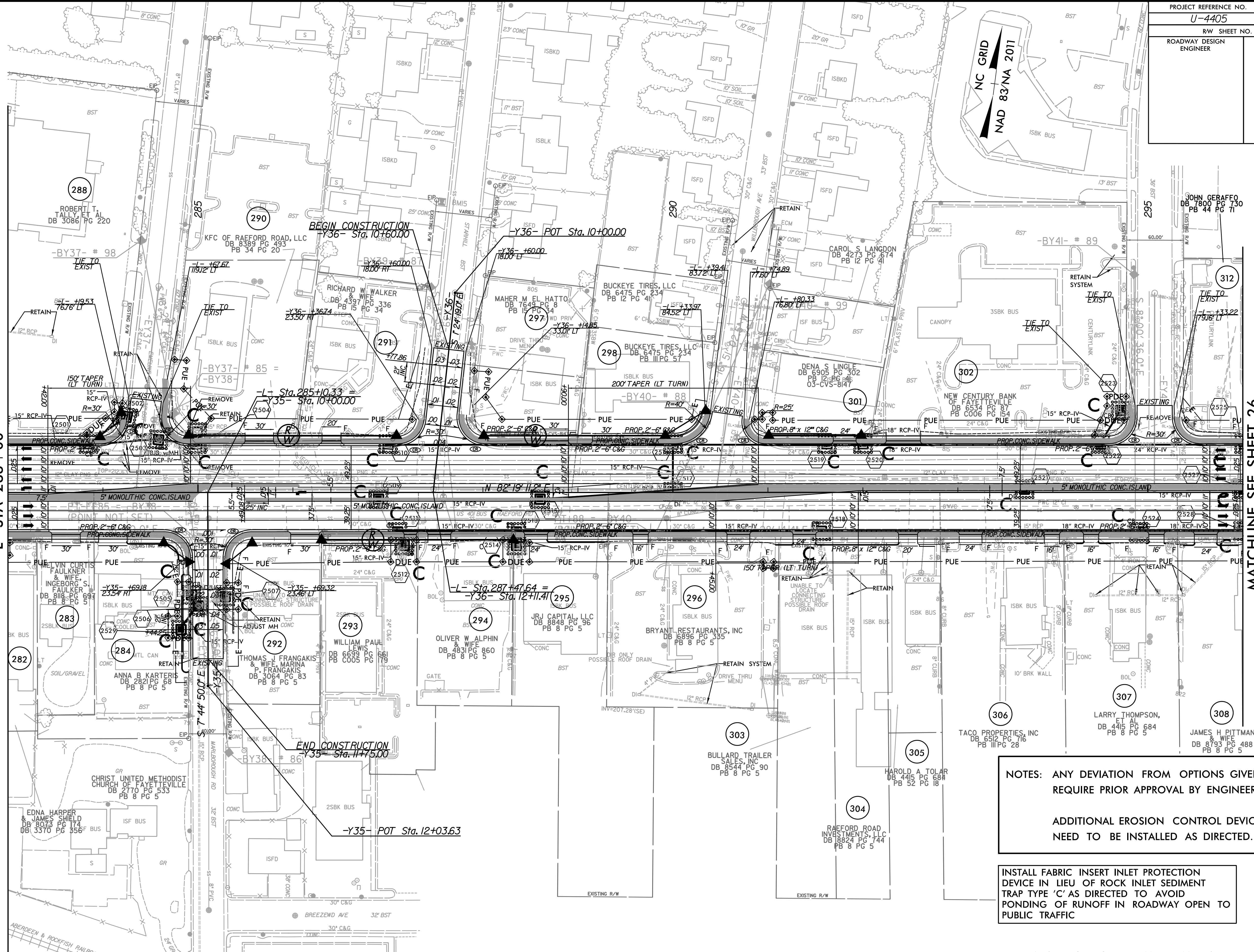
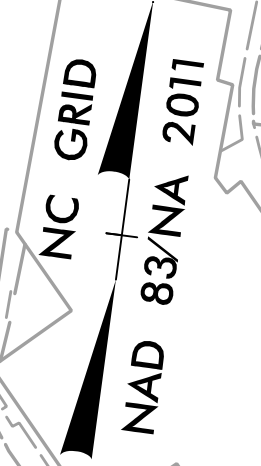
▬ PROP CONC SIDEWALK

** A DESIGN EXCEPTION FOR LANE WIDTH IS REQUIRED FOR -L- STA. 38+95.00 TO -L- 319+95.00

REVISIONS

8/17/99
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PROJECT REFERENCE NO.	SHEET NO.
U-4405	EC-62/CONST. 25
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER



REVISIONS

MATCHLINE SEE SHEET 24
-L- STA 283+00

MATCHLINE SEE SHEET 26
-L- STA 296+00

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

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

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

NOTE: SEE SHEET 42 & 43 FOR -L- PROFILE
SEE SHEET 49 FOR -Y35- PROFILE
SEE SHEET 49 FOR -Y36- PROFILE

PROP CONC SIDEWALK

**** A DESIGN EXCEPTION FOR LANE WIDTH IS REQUIRED FOR -L- STA. 38+95.00 TO -L- 319+95.00**

8/17/99
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PROJECT REFERENCE NO.	SHEET NO.
U-4405	EC-63/CONST.26
RW SHEET NO.	HYDRAULICS ENGINEER
ROADWAY DESIGN ENGINEER	

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

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

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

NC GRID
NAD 83/NA 2011

MATCHLINE SEE SHEET 25
-L- STA 296+00

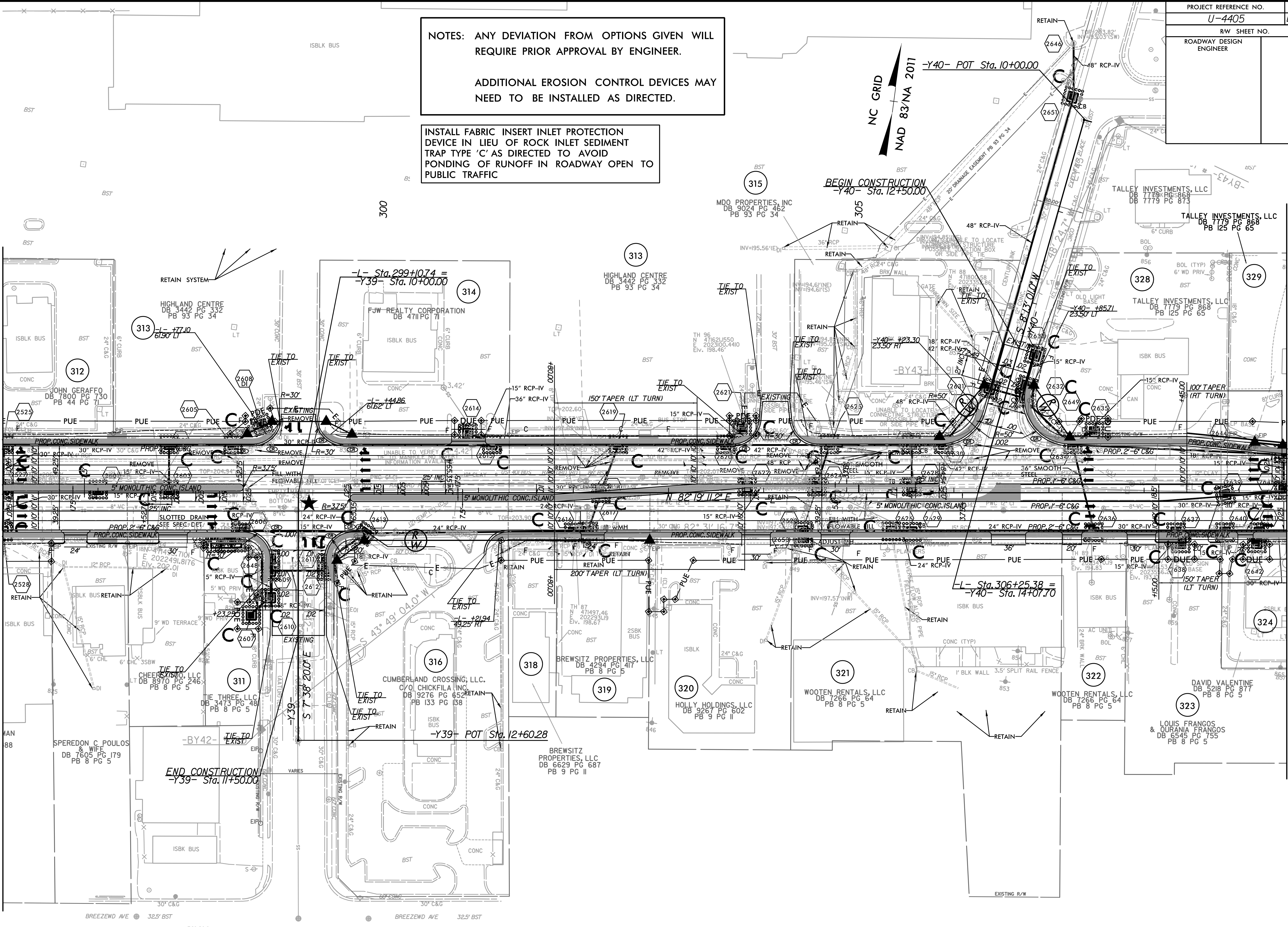
MATCHLINE SEE SHEET 27
-L- STA 309+50

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10/10/10

★ PROPOSED SIGNAL
▬ PROP CONC SIDEWALK

** A DESIGN EXCEPTION FOR LANE WIDTH IS REQUIRED FOR -L- STA. 38+95.00 TO -L- 319+95.00

NOTE: SEE SHEET 43 FOR -L- PROFILE
SEE SHEET 49 FOR -Y39- PROFILE
SEE SHEET 49 FOR -Y40- PROFILE



8/17/99

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

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

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

PROJECT REFERENCE NO.	SHEET NO.
U-4405	EC-64/CONST.27
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

NC GRID
NAD 83/NA 2011

END TIP PROJECT U-4405
-L- Sta. 324+00.00

-L-
 PI Sta 320+13.00
 $\Delta = 43^{\circ} 34' 29.9" (LT)$
 $D = 8' 00" 48.2"$
 $L = 543.78'$
 $T = 285.80'$
 $R = 715.00'$
 $SE = 0.04$

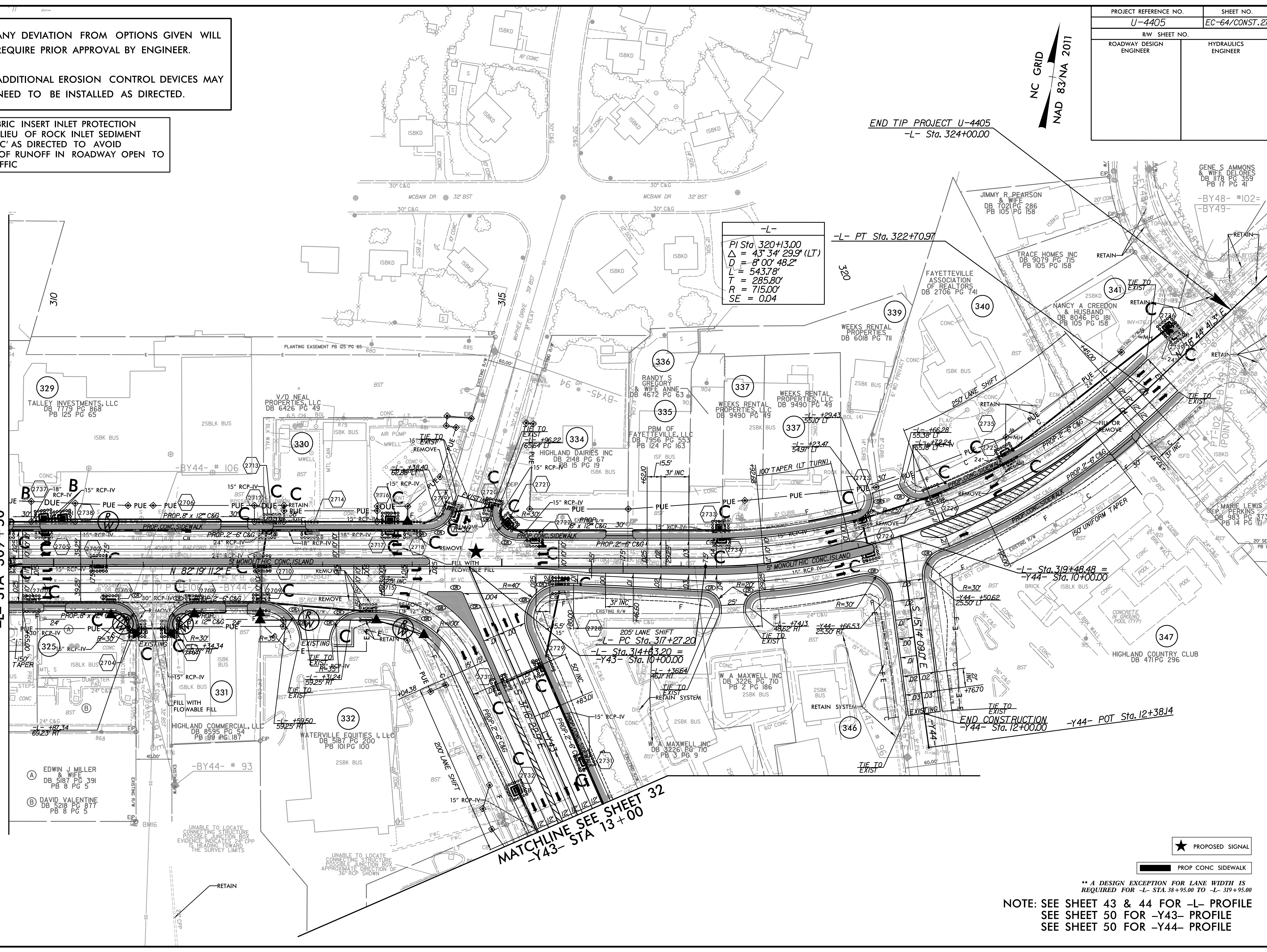
-L- PT Sta. 322+70.97

-L- Sta. 319+48.48 =
-Y44- Sta. 10+00.00

END CONSTRUCTION
-Y44- Sta. 12+00.00
-Y44- POT Sta. 12+38.14

MATCHLINE SEE SHEET 26
-L- STA 309+50

MATCHLINE SEE SHEET 32
-Y43- STA 13+00



REVISIONS

- (A) EDWIN J MILLER
DB 5187 PG 391
PB 8 PG 5
- (B) DAVID VALENTINE
DB 5218 PG 877
PB 8 PG 5

UNABLE TO LOCATE
CONNECTING STRUCTURE
POSSIBLE JUNCTION BOX
EVIDENCE INDICATES 24' C&P
IS HEADING TOWARD
THE SURVEY LIMITS

UNABLE TO LOCATE
CONNECTING STRUCTURE
POSSIBLE JUNCTION BOX
APPROXIMATE DIRECTION OF
56' RCP SHOWN

★ PROPOSED SIGNAL

PROP CONC SIDEWALK

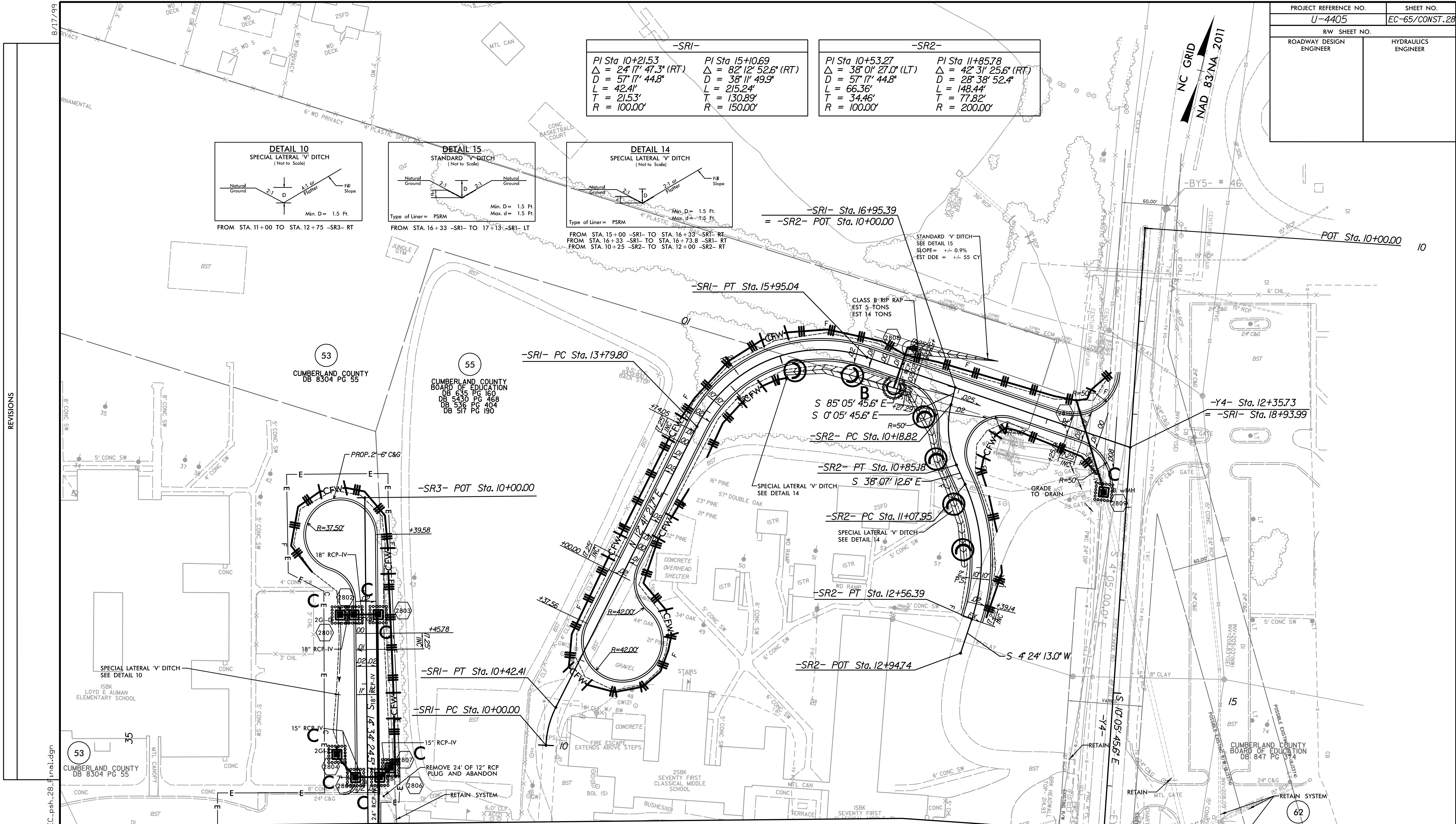
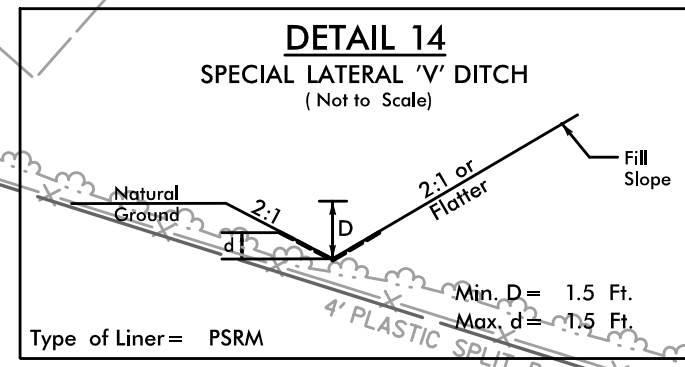
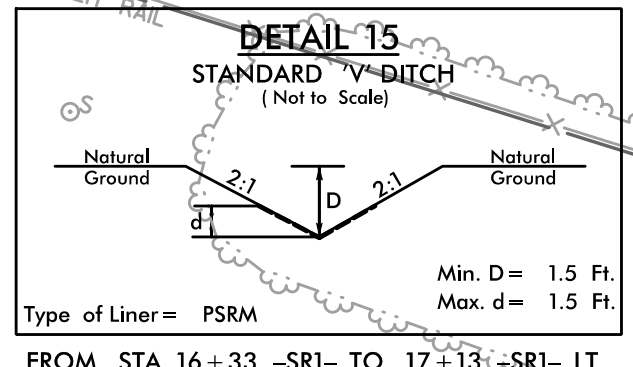
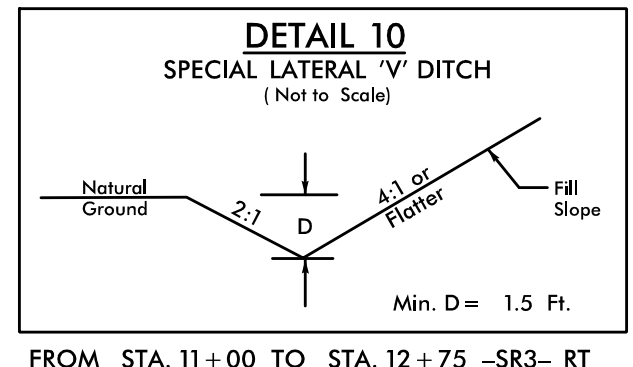
** A DESIGN EXCEPTION FOR LANE WIDTH IS
REQUIRED FOR -L- STA. 38+95.00 TO -L- 319+95.00

NOTE: SEE SHEET 43 & 44 FOR -L- PROFILE
SEE SHEET 50 FOR -Y43- PROFILE
SEE SHEET 50 FOR -Y44- PROFILE

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8/17/99

PROJECT REFERENCE NO.	SHEET NO.
U-4405	EC-65/CONST.28
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

-SR1-		-SR2-	
PI Sta 10+21.53	PI Sta 15+10.69	PI Sta 10+53.27	PI Sta 11+85.78
$\Delta = 24' 17" 47.3" (RT)$	$\Delta = 82' 12" 52.6" (RT)$	$\Delta = 38' 01" 27.0" (LT)$	$\Delta = 42' 31" 25.6" (RT)$
$D = 57' 17" 44.8"$	$D = 38' 11" 49.9"$	$D = 57' 17" 44.8"$	$D = 28' 38" 52.4"$
$L = 42.41'$	$L = 215.24'$	$L = 66.36'$	$L = 148.44'$
$T = 21.53'$	$T = 130.89'$	$T = 34.46'$	$T = 77.82'$
$R = 100.00'$	$R = 150.00'$	$R = 100.00'$	$R = 200.00'$



REVISIONS

MATCHLINE SEE SHEET 6
-SR3- STA 13+50

MATCHLINE SEE SHEET 6
-Y4- STA 16+50

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

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

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

NOTE: SEE SHEET 50 FOR -SR1- PROFILE
SEE SHEET 51 FOR -SR2- PROFILE
SEE SHEET 51 FOR -SR3- PROFILE

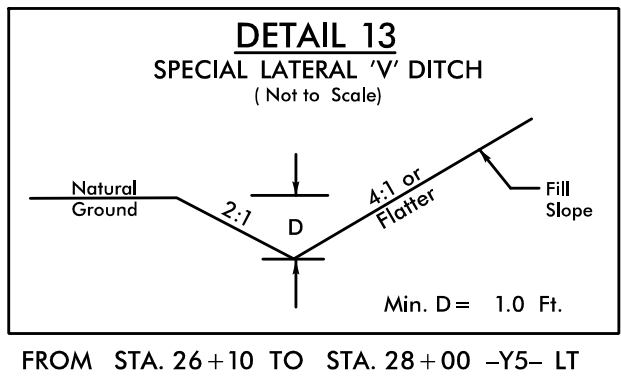
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PROJECT REFERENCE NO.	SHEET NO.
U-4405	EC-66/CONST.29
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

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

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

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

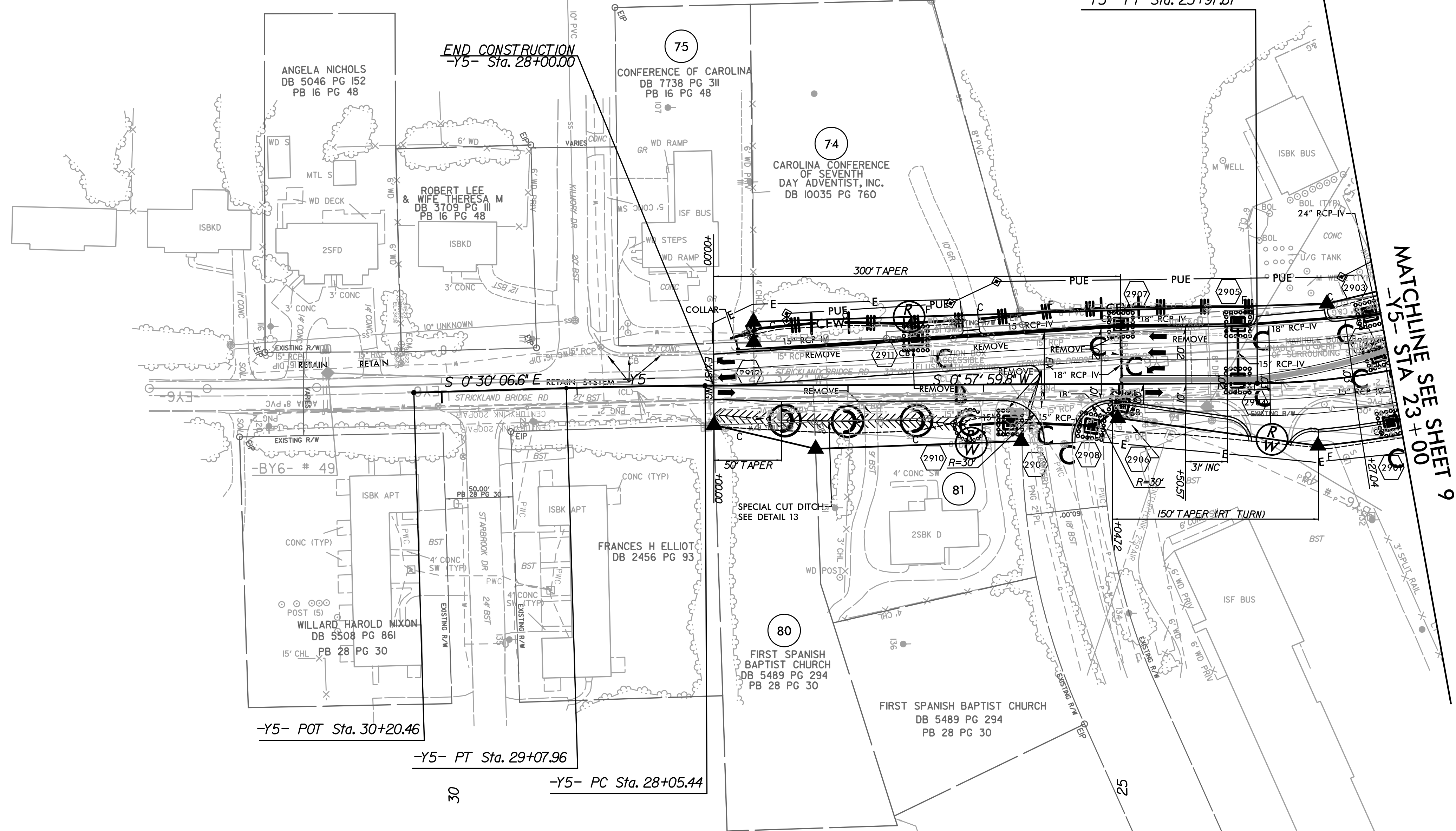


NC GRID
NAD 83/NA 2011

71
CIRCLE K STORES INC
DB 9852 PG 592
PB 137 PG 124

-Y5- PT Sta. 23+97.87

END CONSTRUCTION
-Y5- Sta. 28+00.00



MATCHLINE SEE SHEET 9
-Y5- STA 23+00

-Y5-	
PI Sta 28+56.71	PI Sta 22+82.12
$\Delta = 1' 28' 06.4''$ (LT)	$\Delta = 25' 18' 13.3''$ (RT)
$D = 1' 25' 56.6''$	$D = 10' 44' 58.8''$
$L = 102.52'$	$L = 235.39'$
$T = 51.26'$	$T = 119.65'$
$R = 4,000.00'$	$R = 533.00'$
	SE = 0.02

-Y5-	
PI Sta 22+82.12	PI Sta 22+82.12
$\Delta = 10' 44' 58.8''$	$\Delta = 10' 44' 58.8''$
$L = 235.39'$	$L = 235.39'$
$R = 533.00'$	$R = 533.00'$
	SE = 0.02

NOTE: SEE SHEET 46 FOR -Y5- PROFILE

REVISIONS

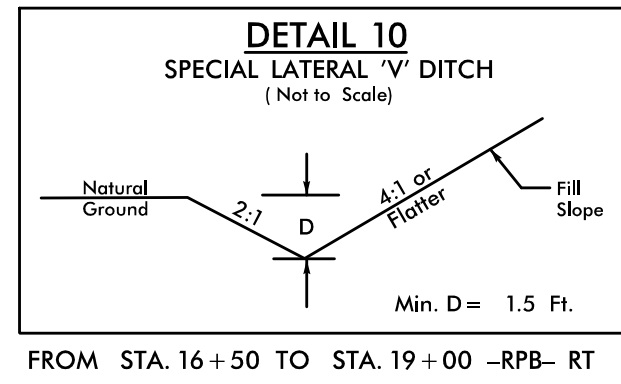
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NOTES: ANY DEVIATION FROM OPTIONS GIVEN WILL REQUIRE PRIOR APPROVAL BY ENGINEER.

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

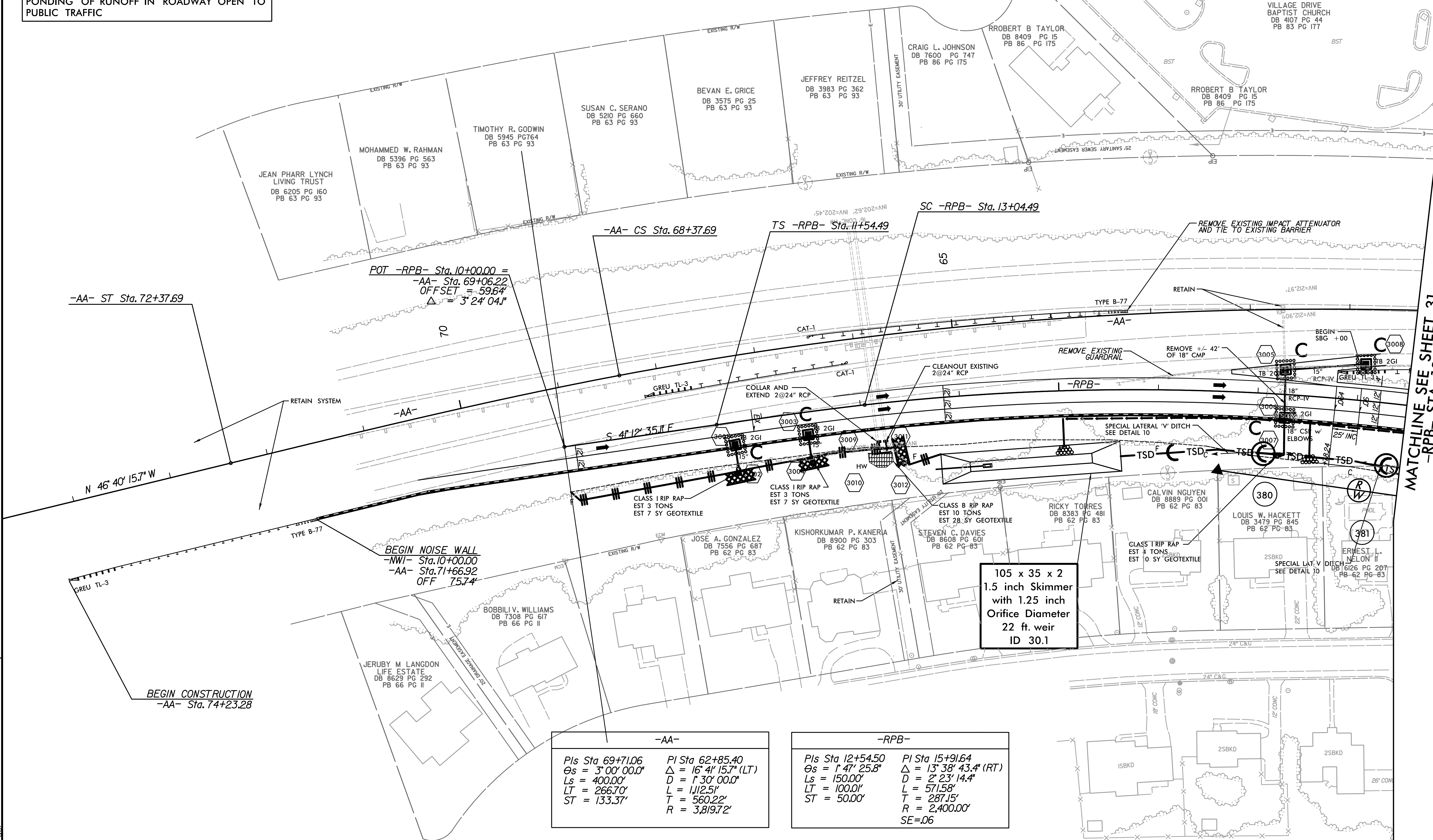
INSTALL FABRIC INSERT INLET PROTECTION DEVICE IN LIEU OF ROCK INLET SEDIMENT TRAP TYPE 'C' AS DIRECTED TO AVOID PONDING OF RUNOFF IN ROADWAY OPEN TO PUBLIC TRAFFIC



NC GRID
NAD 83/NA 2011

PROJECT REFERENCE NO. U-4405	SHEET NO. EC-67/CONST. 30
R/W SHEET NO.	HYDRAULICS ENGINEER
ROADWAY DESIGN ENGINEER	

REVISIONS



-AA- ST Sta. 72+37.69

POT -RPB- Sta. 10+00.00 =
-AA- Sta. 69+06.22
OFFSET = 59.64'
Δ = 3' 24' 04.1"

-AA- CS Sta. 68+37.69

TS -RPB- Sta. 11+54.49

SC -RPB- Sta. 13+04.49

N 46° 40' 15.7" W

BEGIN NOISE WALL
-NWI- Sta. 10+00.00
-AA- Sta. 71+66.92
OFF 75.74'

BEGIN CONSTRUCTION
-AA- Sta. 74+23.28

105 x 35 x 2
1.5 inch Skimmer
with 1.25 inch
Orifice Diameter
22 ft. weir
ID 30.1

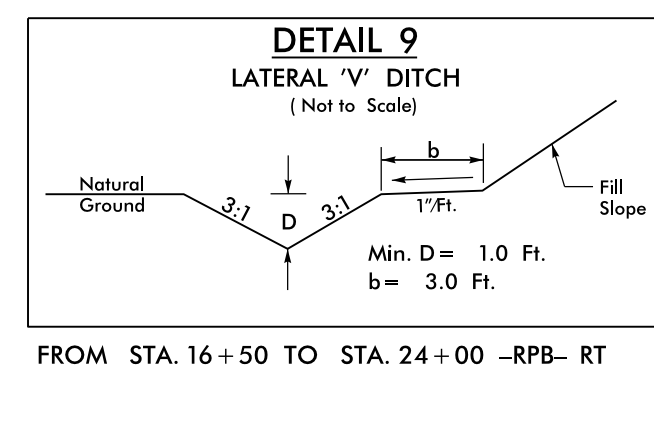
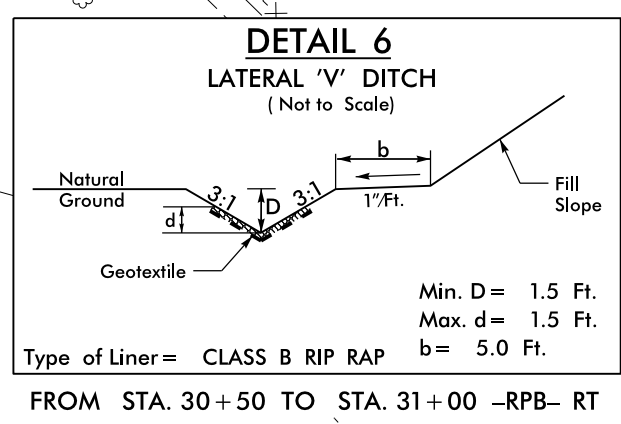
-AA-	
Pls Sta 69+71.06	PI Sta 62+85.40
Os = 3' 00' 00.0"	Δ = 16' 41' 15.7" (LT)
Ls = 400.00'	D = 1' 30' 00.0"
LT = 266.70'	L = 1112.51'
ST = 133.37'	T = 560.22'
	R = 3,819.72'

-RPB-	
Pls Sta 12+54.50	PI Sta 15+91.64
Os = 1' 47' 25.8"	Δ = 13' 38' 43.4" (RT)
Ls = 150.00'	D = 2' 23' 14.4"
LT = 100.01'	L = 571.58'
ST = 50.00'	T = 287.15'
	R = 2,400.00'
	SE=.06

MATCHLINE SEE SHEET 31
-RPB- STA 18+50

NOTE: SEE SHEET 45 FOR -RPB- PROFILE

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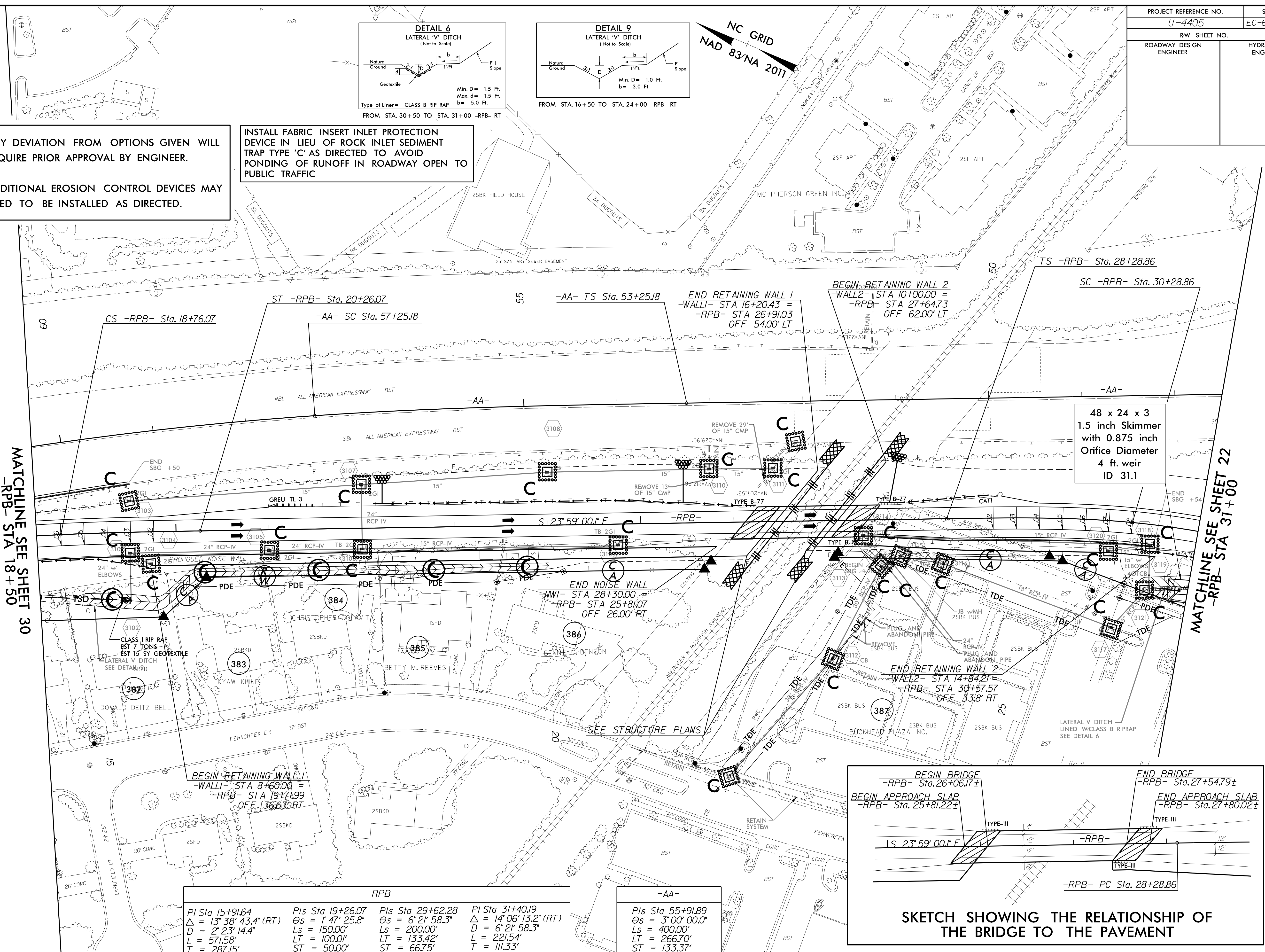


NOTES: ANY DEVIATION FROM OPTIONS GIVEN WILL REQUIRE PRIOR APPROVAL BY ENGINEER.

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

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

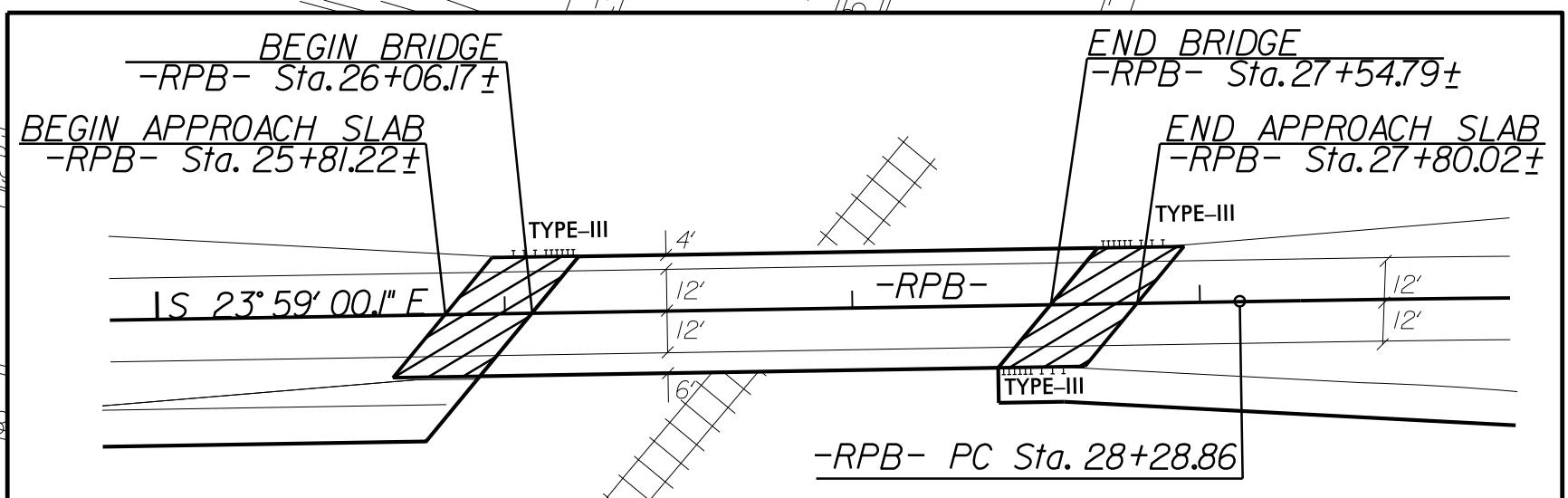
NC GRID
NAD 83/NA 2011



MATCHLINE SEE SHEET 30
-RPB- STA 18+50

MATCHLINE SEE SHEET 22
-RPB- STA 31+00

48 x 24 x 3
1.5 inch Skimmer
with 0.875 inch
Orifice Diameter
4 ft. weir
ID 31.1



SKETCH SHOWING THE RELATIONSHIP OF THE BRIDGE TO THE PAVEMENT

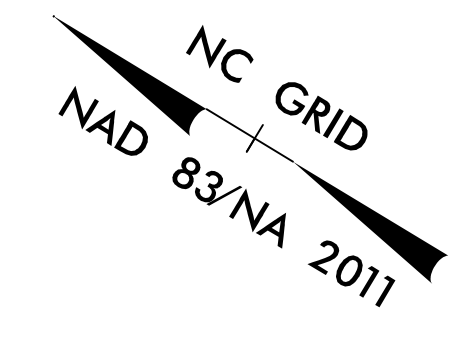
NOTE: SEE SHEET 45 FOR -RPB- PROFILE

-RPB-				-AA-	
PI Sta 15+91.64	PIs Sta 19+26.07	PIs Sta 29+62.28	PI Sta 31+40.19	PIs Sta 55+91.89	
$\Delta = 13^{\circ} 38' 43.4''$ (RT)	$\Theta_s = 1^{\circ} 47' 25.8''$	$\Theta_s = 6^{\circ} 21' 58.3''$	$\Delta = 14^{\circ} 06' 13.2''$ (RT)	$\Theta_s = 3^{\circ} 00' 00.0''$	
$D = 2^{\circ} 23' 14.4''$	$L_s = 150.00'$	$L_s = 200.00'$	$D = 6^{\circ} 21' 58.3''$	$L_s = 400.00'$	
$L = 571.58'$	$LT = 100.01'$	$LT = 133.42'$	$L = 221.54'$	$LT = 266.70'$	
$T = 287.15'$	$ST = 50.00'$	$ST = 66.75'$	$T = 111.33'$	$ST = 133.37'$	
$R = 2,400.00'$			$R = 900.00'$		
$SE = .06$			$SE = .08$		

REVISIONS

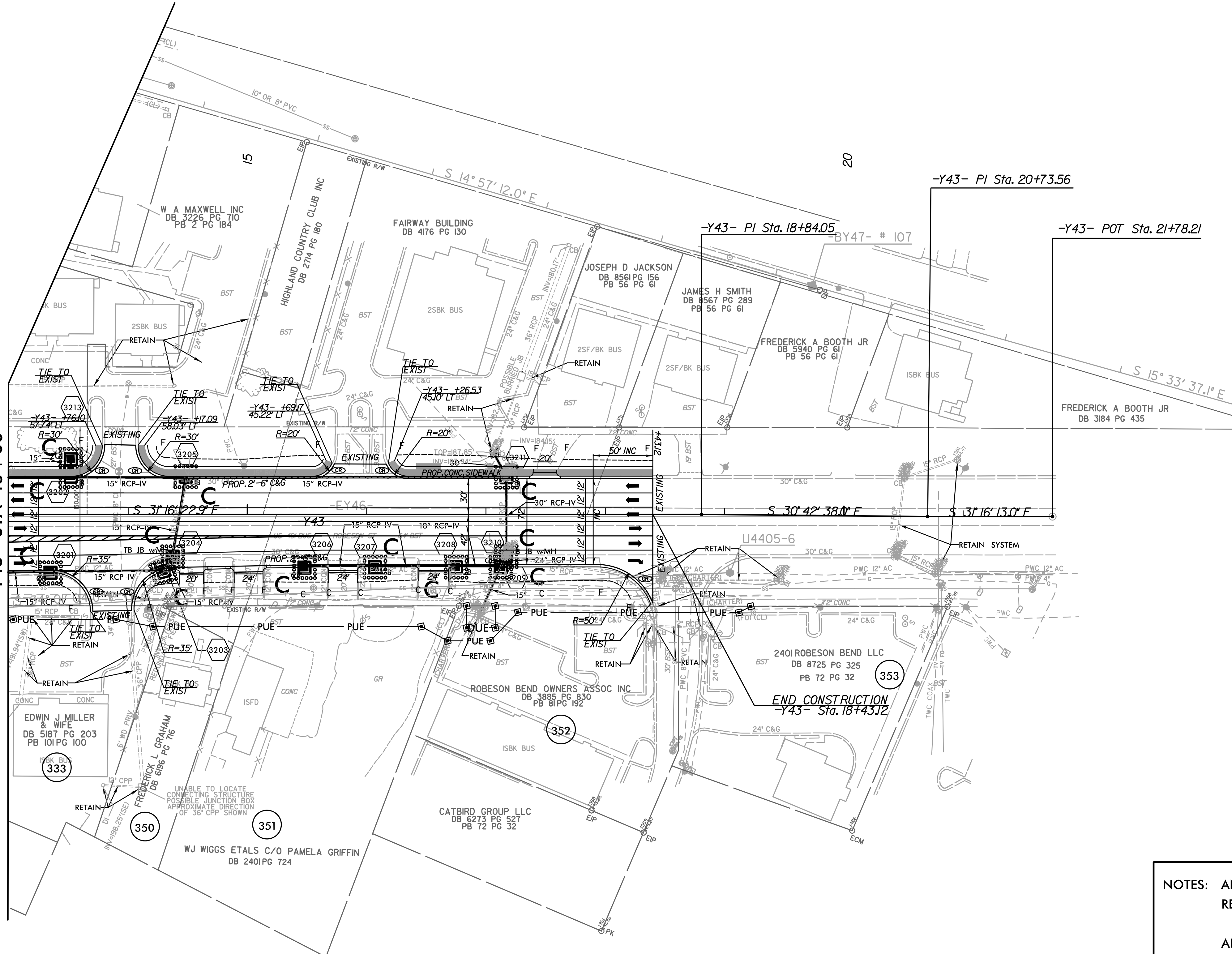
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PROJECT REFERENCE NO.	SHEET NO.
U-4405	EC-69/CONST.32
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER



-Y43-	
PI Sta 18+97.74	PI Sta 21+77.77
$\Delta = 0^{\circ} 29' 06.2''$ (RT)	$\Delta = 0^{\circ} 28' 56.2''$ (LT)
$D = 1' 25' 56.6''$	$D = 1' 25' 56.6''$
$L = 33.86'$	$L = 33.67'$
$T = 16.93'$	$T = 16.83'$
$R = 4,000.00'$	$R = 4,000.00'$

MATCHLINE SEE SHEET 27
-Y43- STA 13+00



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

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

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

NOTE: SEE SHEET 50 FOR -Y43- PROFILE

REVISIONS

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