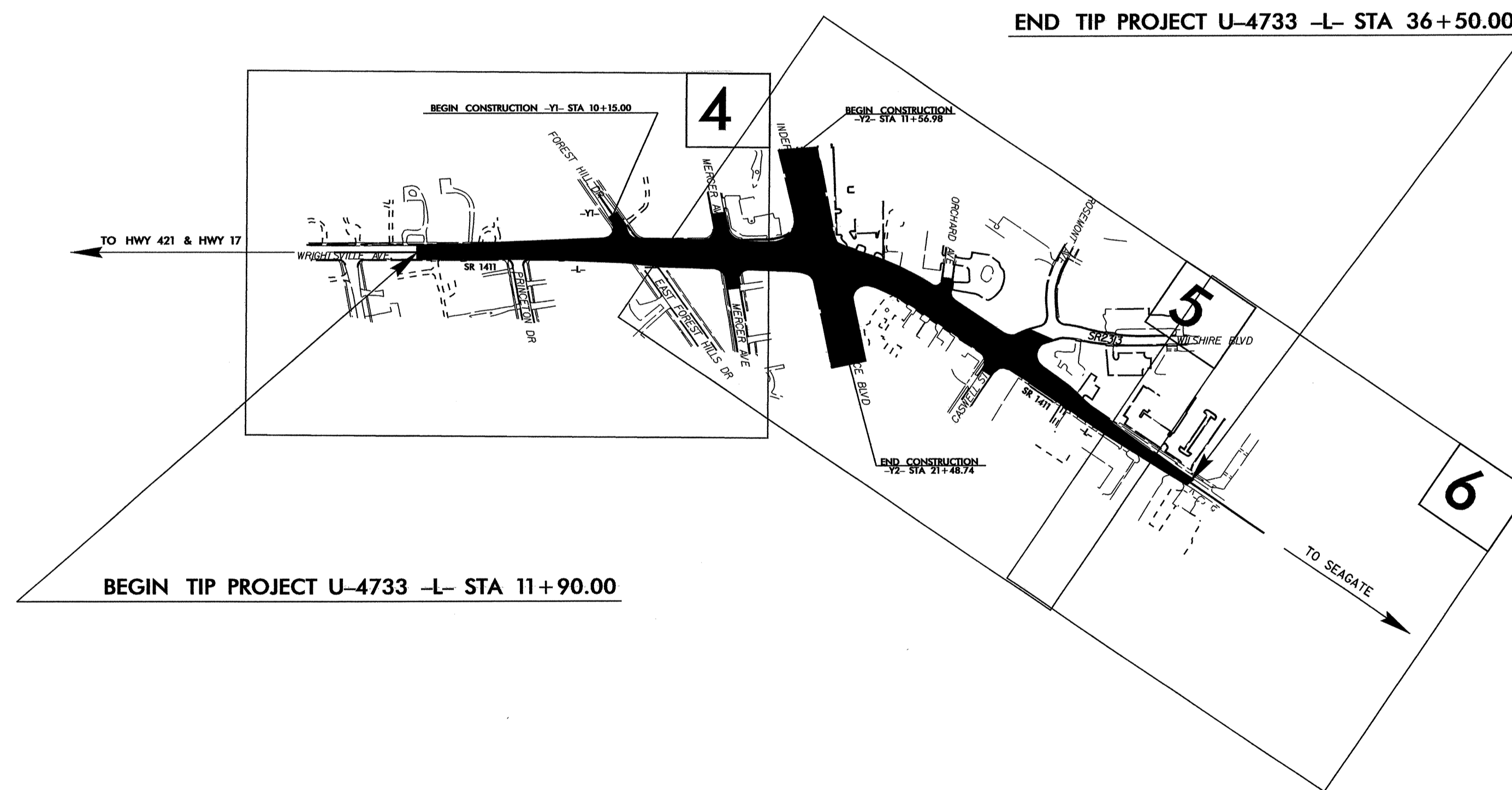


TIP PROJECT: U-4733

STATE OF NORTH CAROLINA
 DIVISION OF HIGHWAYS
 PLAN FOR PROPOSED
 HIGHWAY EROSION CONTROL
NEW HANOVER COUNTY

**LOCATION: WILMINGTON - SR 1411 (WRIGHTSVILLE AVE.) FROM
 SR 2313 (WILSHIRE BLVD.) TO FOREST HILLS DR.**

**TYPE OF WORK: GRADING, PAVING, WIDENING, DRAINAGE, CURB
 AND GUTTER, NOISE WALL, SIGNALS AND GUARDRAIL**



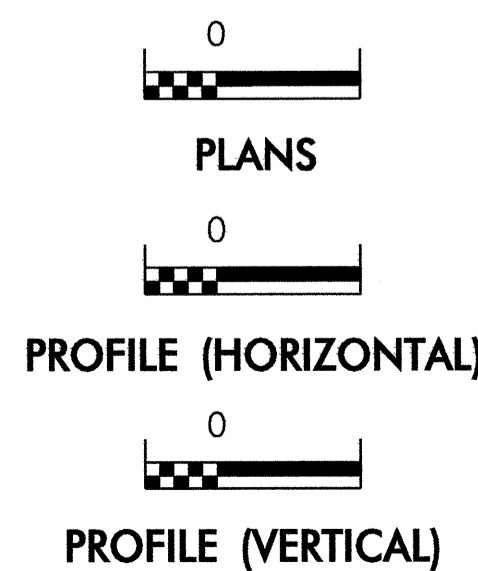
STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	U-4733	EC-1	
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION	

EROSION AND SEDIMENT CONTROL MEASURES

Std. #	Description	Symbol
1630.03	Temporary Silt Ditch.....	
1630.05	Temporary Diversion.....	
1605.01	Temporary Silt Fence.....	
1606.01	Special Sediment Control Fence.....	
1622.01	Temporary Berms and Slope Drains.....	
1630.01	Riser Basin.....	
1630.02	Silt Basin Type B.....	
1633.01	Temporary Rock Silt Check Type-A.....	
	Temporary Rock Silt Check Type-B.....	
	Wattle.....	
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.....	
	Rock Inlet Sediment Trap:	
1632.01	Type A.....	
1632.02	Type B.....	
1632.03	Type C.....	
	Skimmer Basin.....	
	Tiered Skimmer Basin.....	
	Infiltration Basin.....	

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

GRAPHIC SCALE



ROADSIDE ENVIRONMENTAL UNIT
 DIVISION OF HIGHWAYS
 STATE OF NORTH CAROLINA

Prepared In the Office of:
ROADSIDE ENVIRONMENTAL UNIT
 1 South Wilmington St.
 Raleigh, NC 27611
2006 STANDARD SPECIFICATIONS

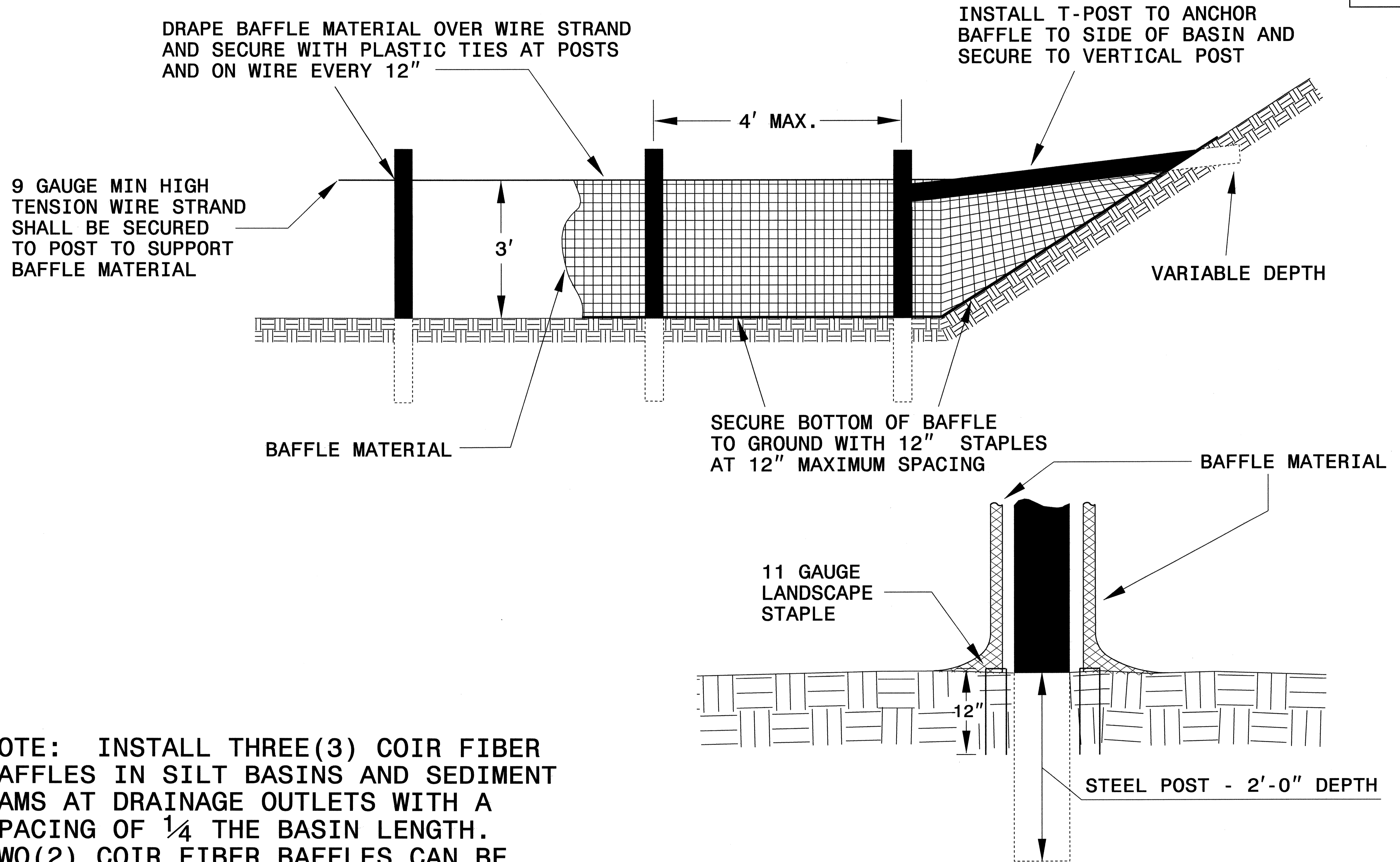
Roadway Standard Drawings

The following roadway english standards as appear in "Roadway Standard Drawings"- Roadway Design Unit - N. C. Department of Transportation - Raleigh, N. C., dated July 18, 2006 and the latest revision thereto are applicable to this project and by reference hereby are considered a part of these plans.

1605.01 Temporary Silt Fence	1632.03 Rock Inlet Sediment Trap Type C
1606.01 Special Sediment Control Fence	1633.01 Temporary Rock Silt Check Type A
1607.01 Gravel Construction Entrance	1635.01 Rock Pipe Inlet Sediment Trap Type A

PROJECT REFERENCE NO. U-4733	SHEET NO. EC-2
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

COIR FIBER BAFFLE DETAIL

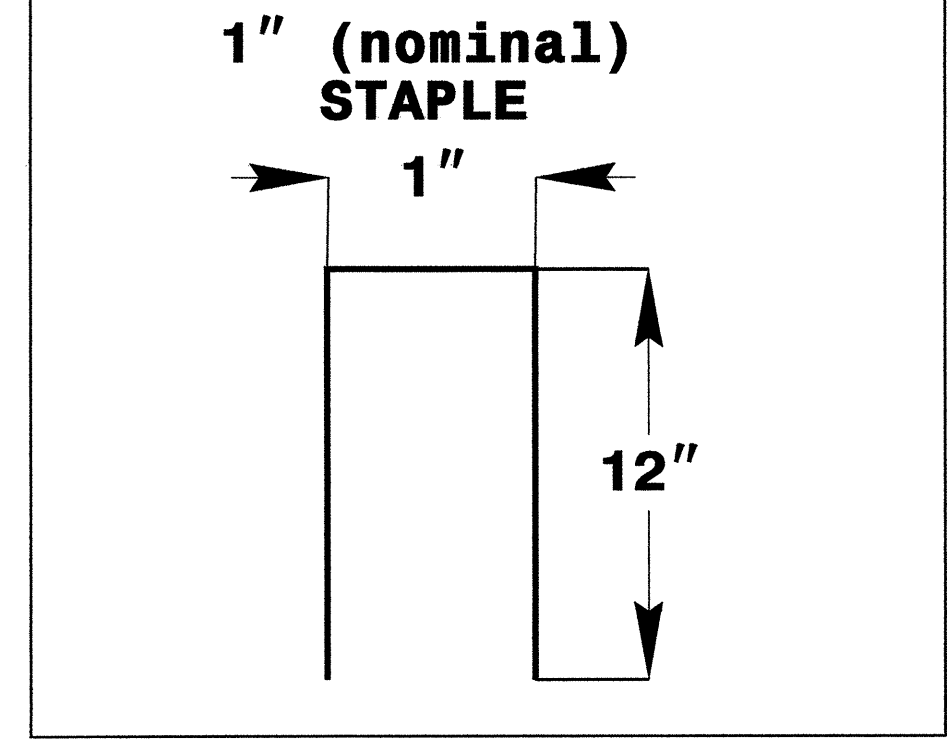
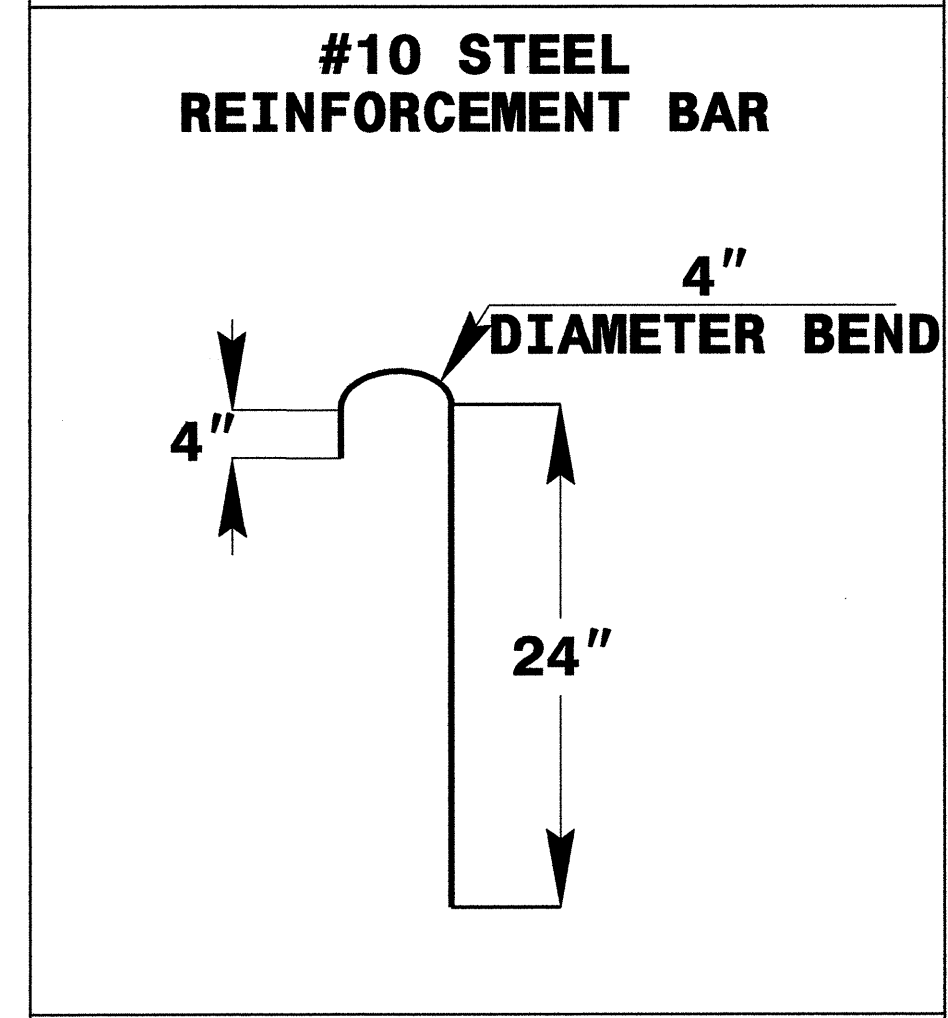
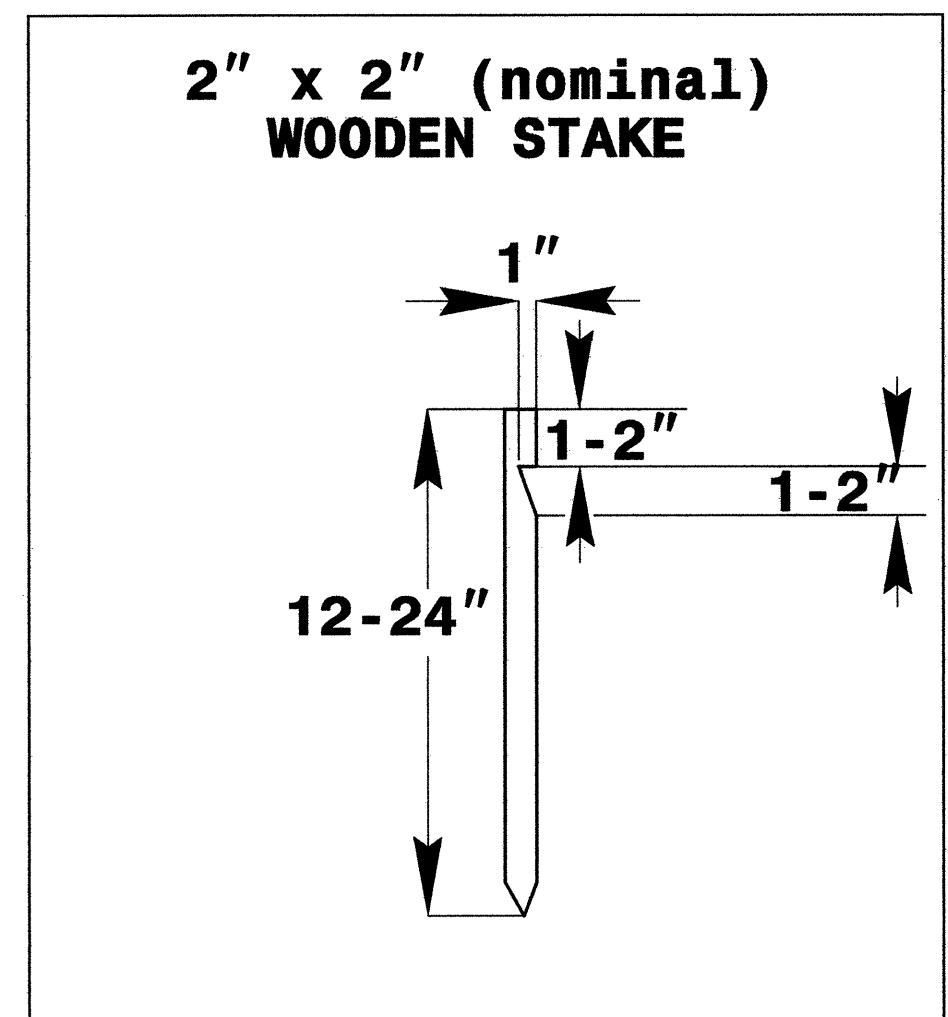
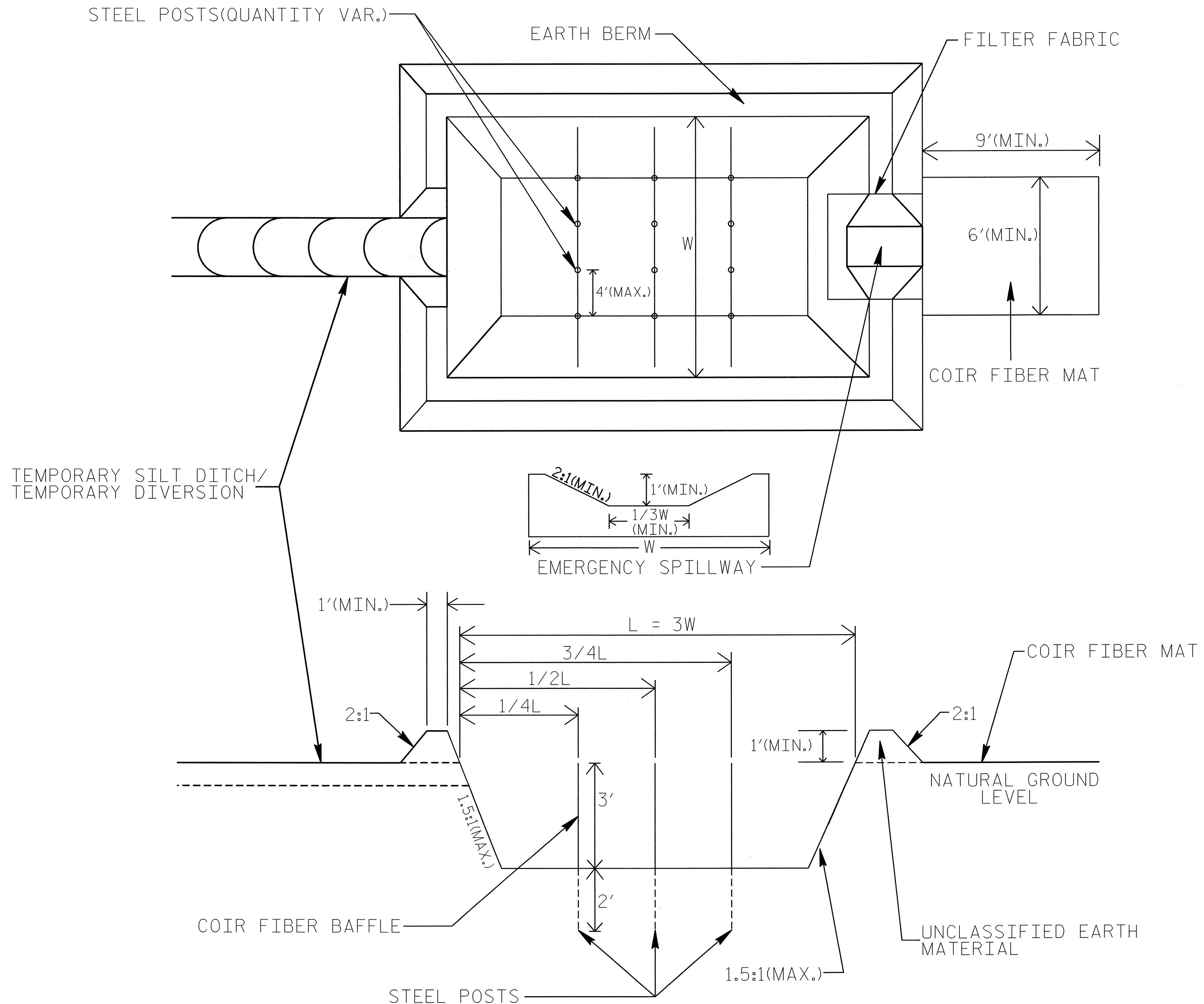


NOTE: INSTALL THREE(3) COIR FIBER BAFFLES IN SILT BASINS AND SEDIMENT DAMS AT DRAINAGE OUTLETS WITH A SPACING OF $\frac{1}{4}$ THE BASIN LENGTH. TWO(2) COIR FIBER BAFFLES CAN BE INSTALLED IN SILT BASINS AND DAMS LESS THAN 20 FT. IN LENGTH WITH A SPACING OF $\frac{1}{3}$ THE BASIN LENGTH.

BAFFLE MATERIAL SHALL BE SECURED TO THE BOTTOM AND SIDES OF BASIN USING 12" LANDSCAPE STAPLES

INFILTRATION BASIN WITH BAFFLES DETAIL

PROJECT REFERENCE NO. U-4733	SHEET NO. EC-3
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER



COIR FIBER MAT ANCHOR OPTIONS

- NOTES:
- DO NOT EXCAVATE BELOW WATER TABLE.
 - LIMIT EARTH BERM HEIGHT TO 3 FT.
 - AVOID COMPACTING BOTTOM OF BASIN.

PROJECT REFERENCE NO. U-4733		SHEET NO. EC-4/CONST.4	
RW SHEET NO.			
ROADWAY DESIGN ENGINEER		HYDRAULICS ENGINEER	

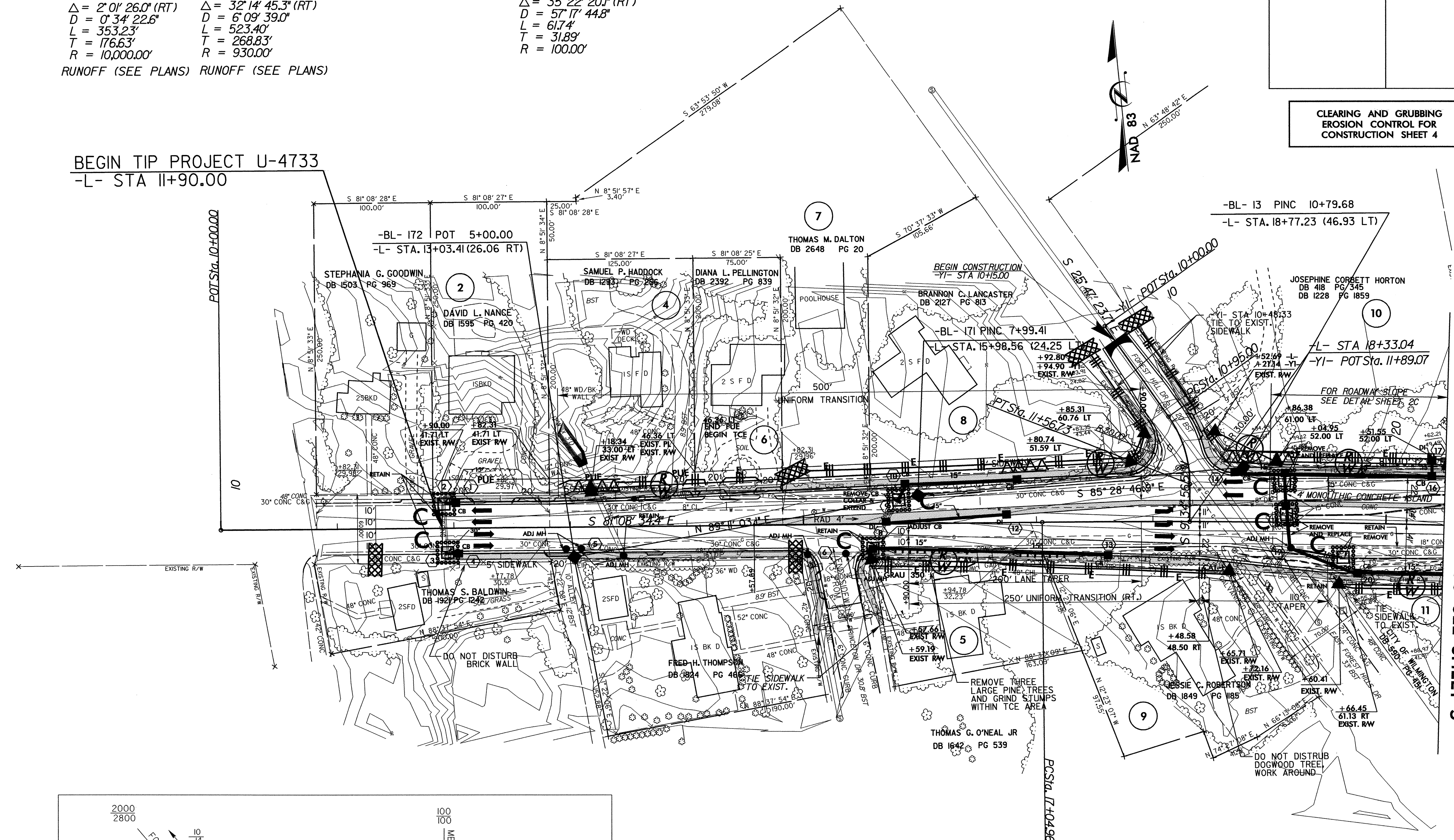
NOTE:
PLACE TEMPORARY ROCK SEDIMENT DAMS TYPE - B
AND TEMPORARY ROCK SILT CHECKS TYPE - A AT
DRAINAGE OUTLETS.

CLEARING AND GRUBBING
EROSION CONTROL FOR
CONSTRUCTION SHEET 4

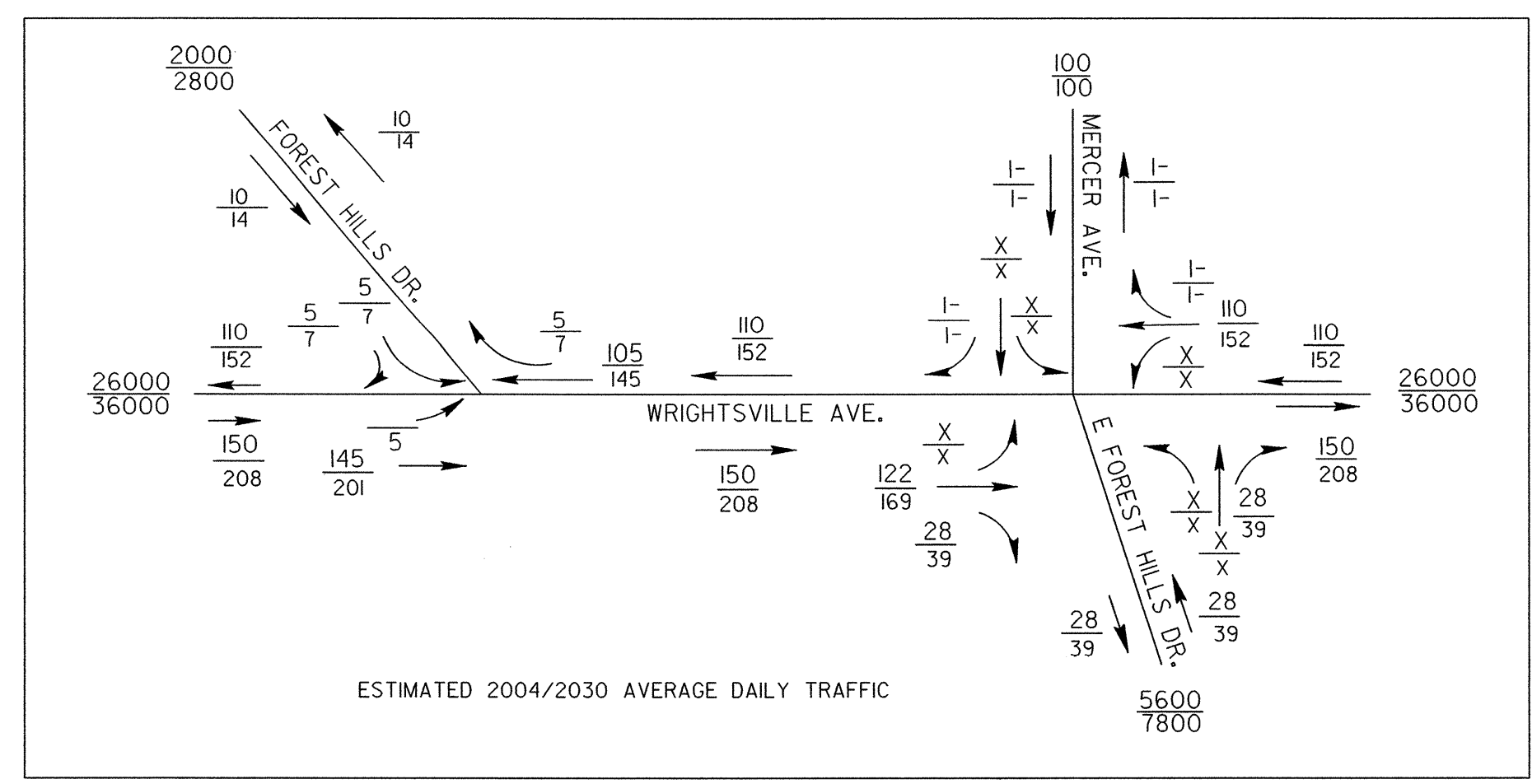
-L-
PI Sta 18+81.60 PI Sta 25+19.42
Δ = 2° 01' 26.0" (RT) Δ = 32° 14' 45.3" (RT)
D = 0' 34' 22.6" D = 6' 09' 39.0"
L = 353.23' L = 523.40'
T = 176.63' T = 268.83'
R = 10,000.00' R = 930.00'
RUNOFF (SEE PLANS) RUNOFF (SEE PLANS)

-YI-
PI Sta 11+26.88
Δ = 35° 22' 20.1" (RT)
D = 57' 17" 44.8"
L = 61.74'
T = 31.89'
R = 100.00'

BEGIN TIP PROJECT U-4733
-L- STA 11+90.00



MATCHLINE -L- STA 20+50 SEE SHEET 5



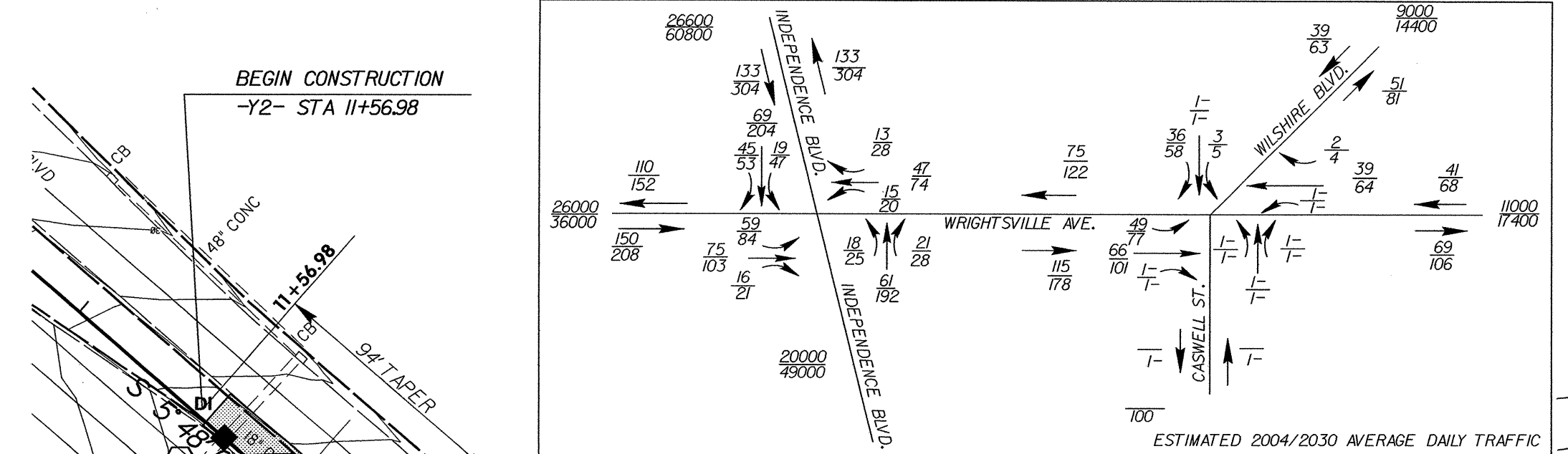
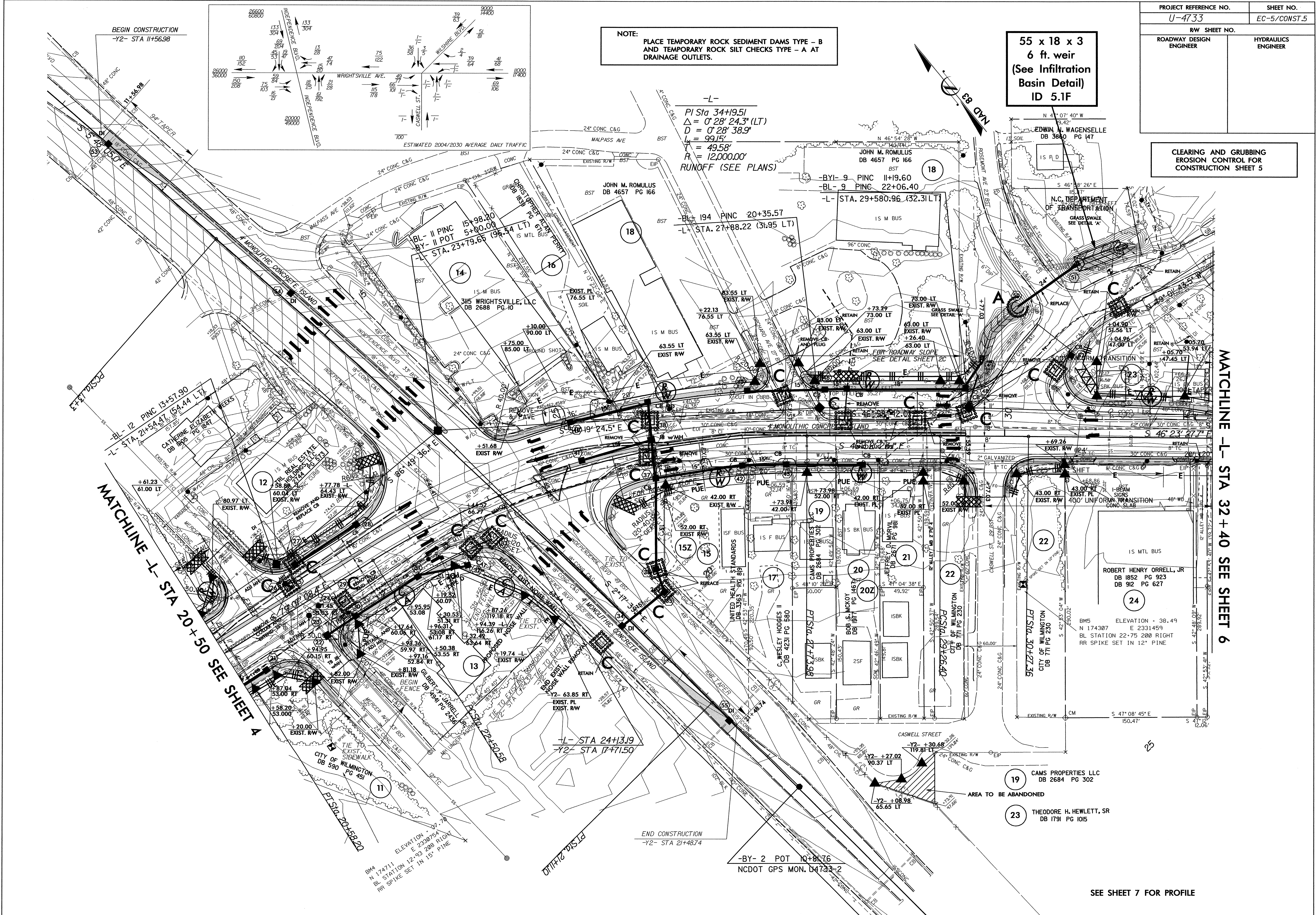
SEE SHEET 7 FOR PROFILE

PROJECT REFERENCE NO.		SHEET NO.	
U-4733		EC-5/CONST.5	
RW SHEET NO.			
ROADWAY DESIGN ENGINEER		HYDRAULICS ENGINEER	

NOTE: PLACE TEMPORARY ROCK SEDIMENT DAMS TYPE - B AND TEMPORARY ROCK SILT CHECKS TYPE - A AT DRAINAGE OUTLETS.

55 x 18 x 3
6 ft. weir
(See Infiltration Basin Detail)
ID 5.1F

CLEARING AND GRUBBING
EROSION CONTROL FOR
CONSTRUCTION SHEET 5



-L-
PI Sta 34+19.51
 $\Delta = 0' 28' 24.3''$ (LT)
 $D = 0' 28' 38.9''$
 $L = 99.15'$
 $R = 49.58'$
 $R = 12,000.00'$
RUNOFF (SEE PLANS)

MATCHLINE -L- STA 20+50 SEE SHEET 4

MATCHLINE -L- STA 32+40 SEE SHEET 6

SEE SHEET 7 FOR PROFILE

PROJECT REFERENCE NO. U-4733	SHEET NO. EC-6/CONST.6
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

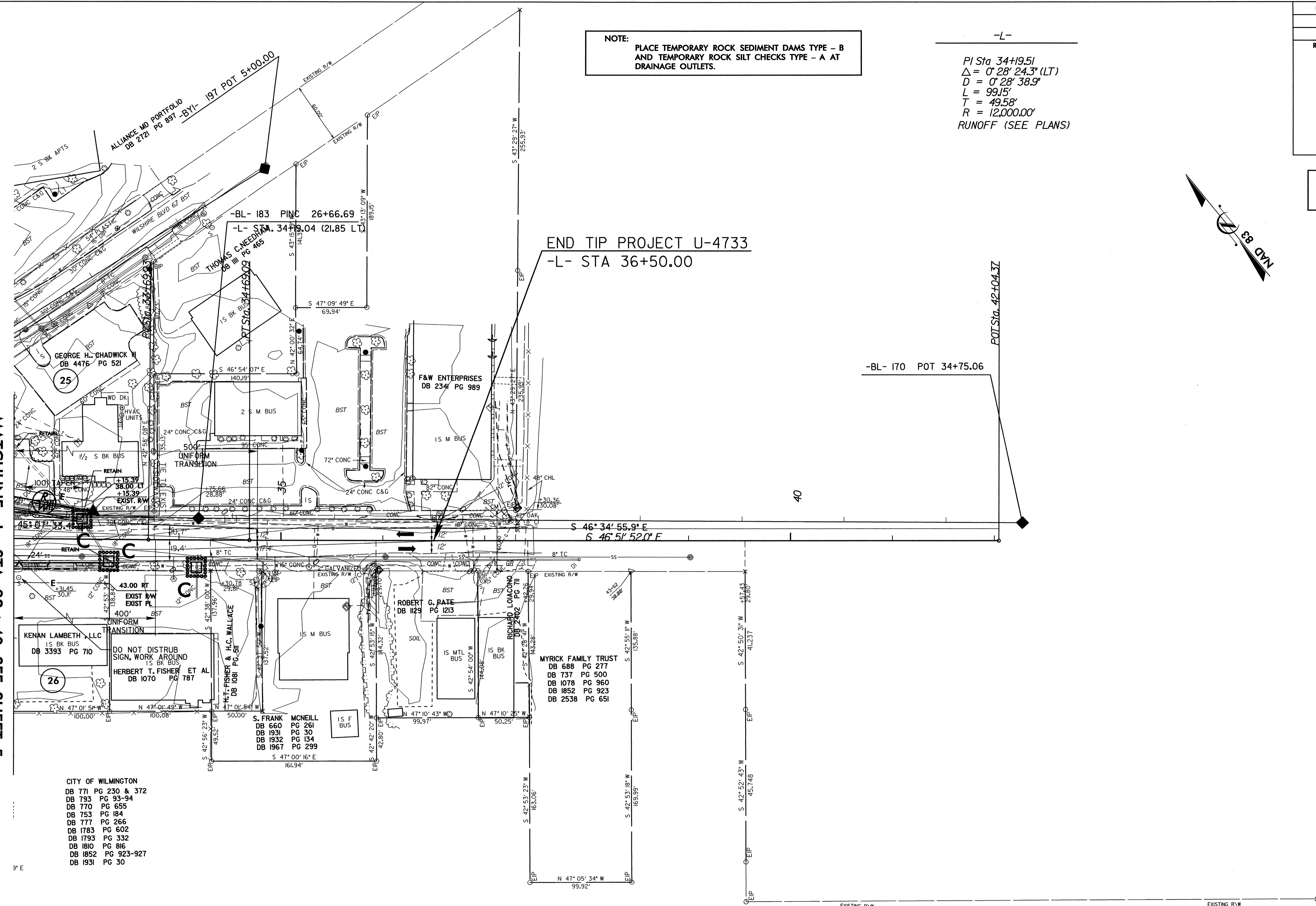
CLEARING AND GRUBBING
EROSION CONTROL FOR
CONSTRUCTION SHEET 6

NOTE:
PLACE TEMPORARY ROCK SEDIMENT DAMS TYPE - B
AND TEMPORARY ROCK SILT CHECKS TYPE - A AT
DRAINAGE OUTLETS.

-L-
PI Sta 34+19.51
 $\Delta = 0' 28' 24.3" (LT)$
 $D = 0' 28' 38.9"$
 $L = 99.15'$
 $T = 49.58'$
 $R = 12,000.00'$
RUNOFF (SEE PLANS)



MATCHLINE -L- STA 32+40 SEE SHEET 5



- CITY OF WILMINGTON
DB 771 PG 230 & 372
DB 793 PG 93-94
DB 770 PG 655
DB 753 PG 184
DB 777 PG 266
DB 1783 PG 602
DB 1793 PG 332
DB 1810 PG 816
DB 1852 PG 923-927
DB 1931 PG 30

SEE SHEET 7 FOR PROFILE

PROJECT REFERENCE NO.	SHEET NO.
U-4733	EC-7/CONST.4
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

-L-

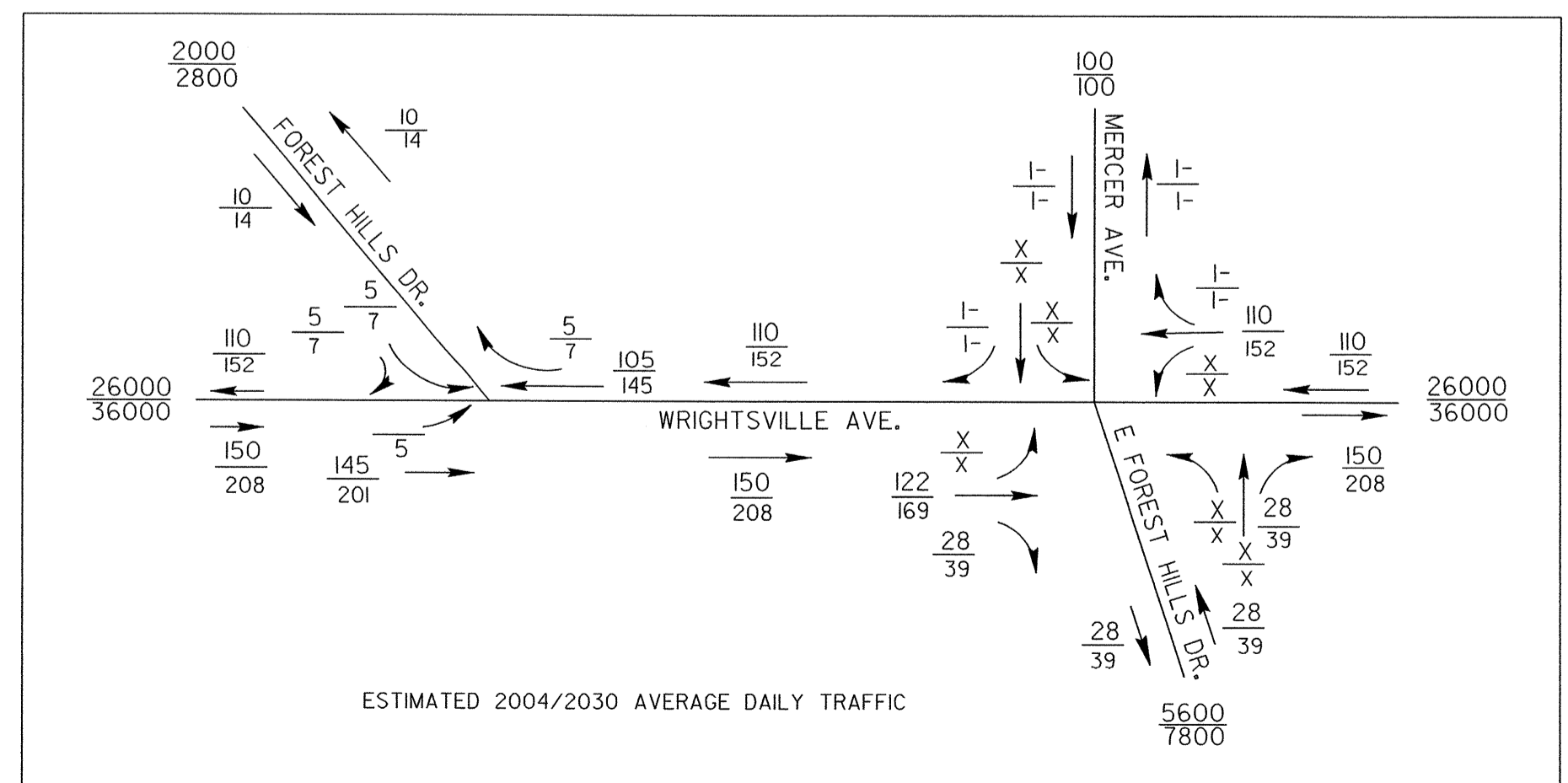
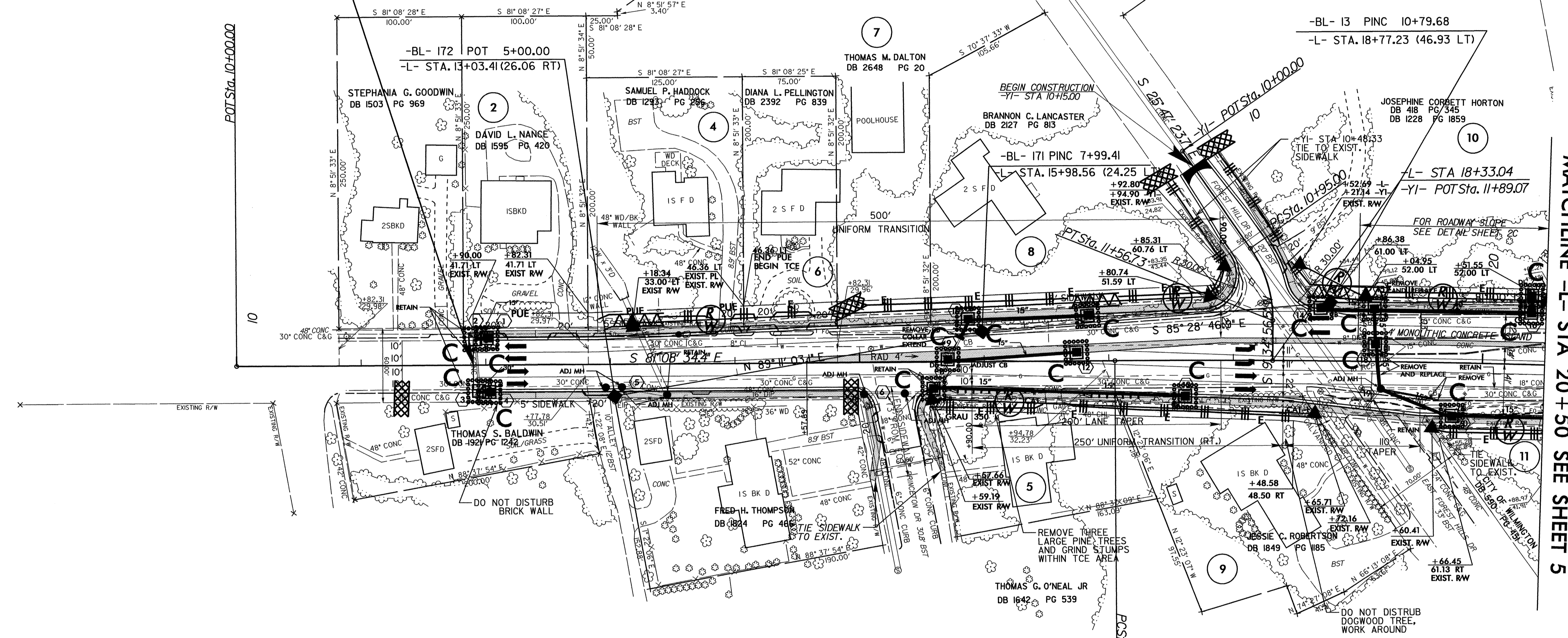
PI Sta 18+81.60 PI Sta 25+19.42
 $\Delta = 2^\circ 01' 26.0''$ (RT) $\Delta = 32^\circ 14' 45.3''$ (RT)
 $D = 0^\circ 34' 22.6''$ $D = 6^\circ 09' 39.0''$
 $L = 353.23'$ $L = 523.40'$
 $T = 176.63'$ $T = 268.83'$
 $R = 10,000.00'$ $R = 930.00'$

-YI-

PI Sta 11+26.88
 $\Delta = 35^\circ 22' 20.1''$ (RT)
 $D = 57^\circ 17' 44.8''$
 $L = 617.4'$
 $T = 318.9'$
 $R = 100.00'$

RUNOFF (SEE PLANS) RUNOFF (SEE PLANS)

BEGIN TIP PROJECT U-4733
 -L- STA 11+90.00



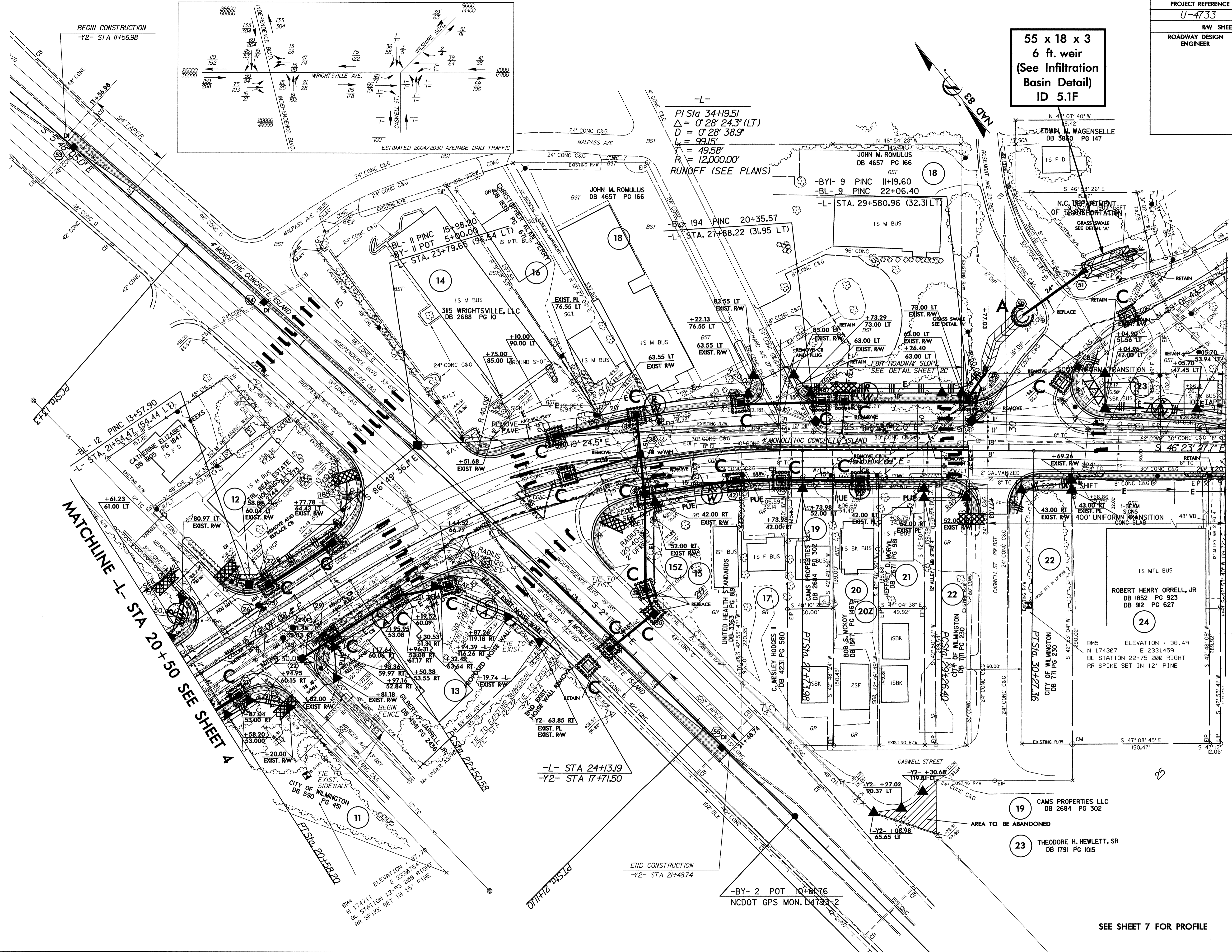
MATCHLINE -L- STA 20+50 SEE SHEET 5

SEE SHEET 7 FOR PROFILE

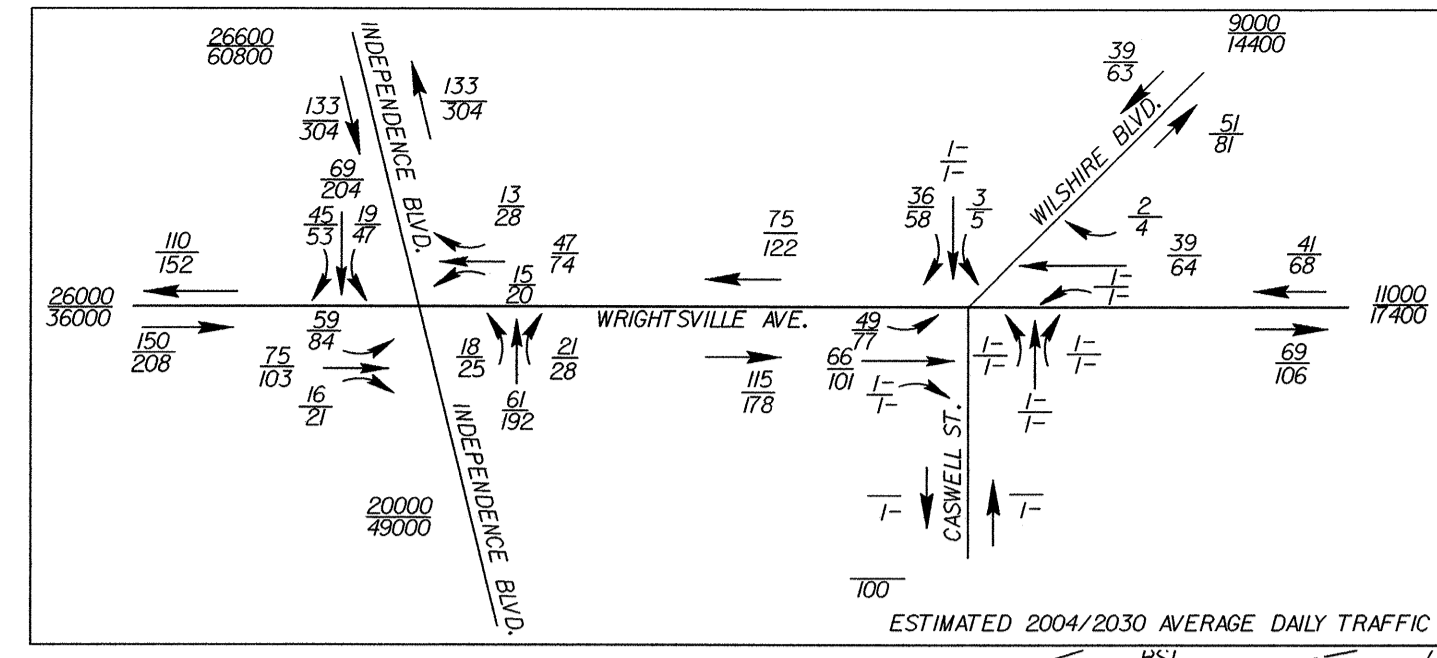
8/17/99

PROJECT REFERENCE NO. U-4733	SHEET NO. EC-8/CONST.5
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

55 x 18 x 3
6 ft. weir
(See Infiltration Basin Detail)
ID 5.1F



BEGIN CONSTRUCTION
-Y2- STA 11+56.98



-L-
PI Sta 34+19.51
 $\Delta = 0^\circ 28' 24.3''$ (LT)
 $D = 0^\circ 28' 38.9''$
 $L = 99.15'$
 $R = 49.58'$
 $R = 12,000.00'$
RUNOFF (SEE PLANS)

MATCHLINE -L- STA 20+50 SEE SHEET 4

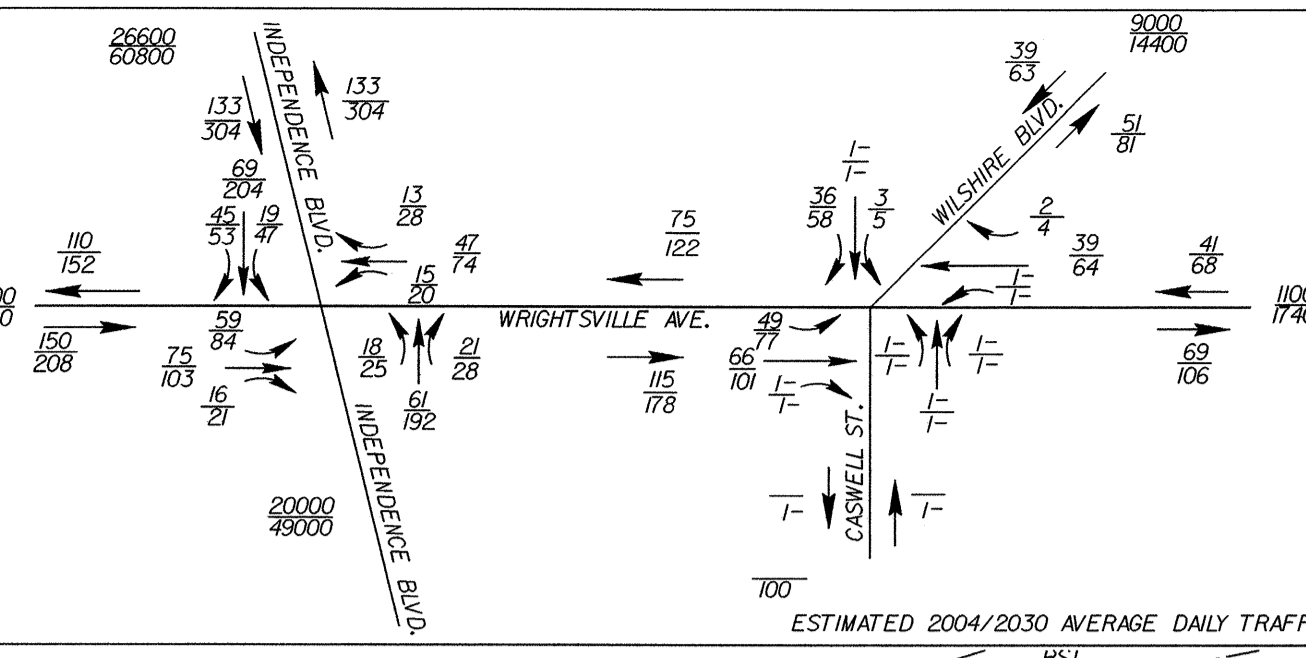
MATCHLINE -L- STA 32+40 SEE SHEET 6

-L- STA 24+13.19
-Y2- STA 17+71.50

END CONSTRUCTION
-Y2- STA 21+48.74

-BY- 2 POT 10+81.76
NCDOT GPS MON. U4733-2

SEE SHEET 7 FOR PROFILE



N 41° 07' 40" W
13.42'

EDWIN N. WAGENSELLE
DB 3880 PG 147

S 46° 48' 26" E
15.71'

N.C. DEPARTMENT
OF TRANSPORTATION

GRASS SWALE
SEE DETAIL 'A'

S 46° 48' 26" E
15.71'

REPLACE

REPLACE

REPLACE

REPLACE

REPLACE

REPLACE

REPLACE

REPLACE

REPLACE

REPLACE

REPLACE

REPLACE

REPLACE

REPLACE

REPLACE

REPLACE

REPLACE

REPLACE

REPLACE

REPLACE

REPLACE

REPLACE

REPLACE

REPLACE

REPLACE

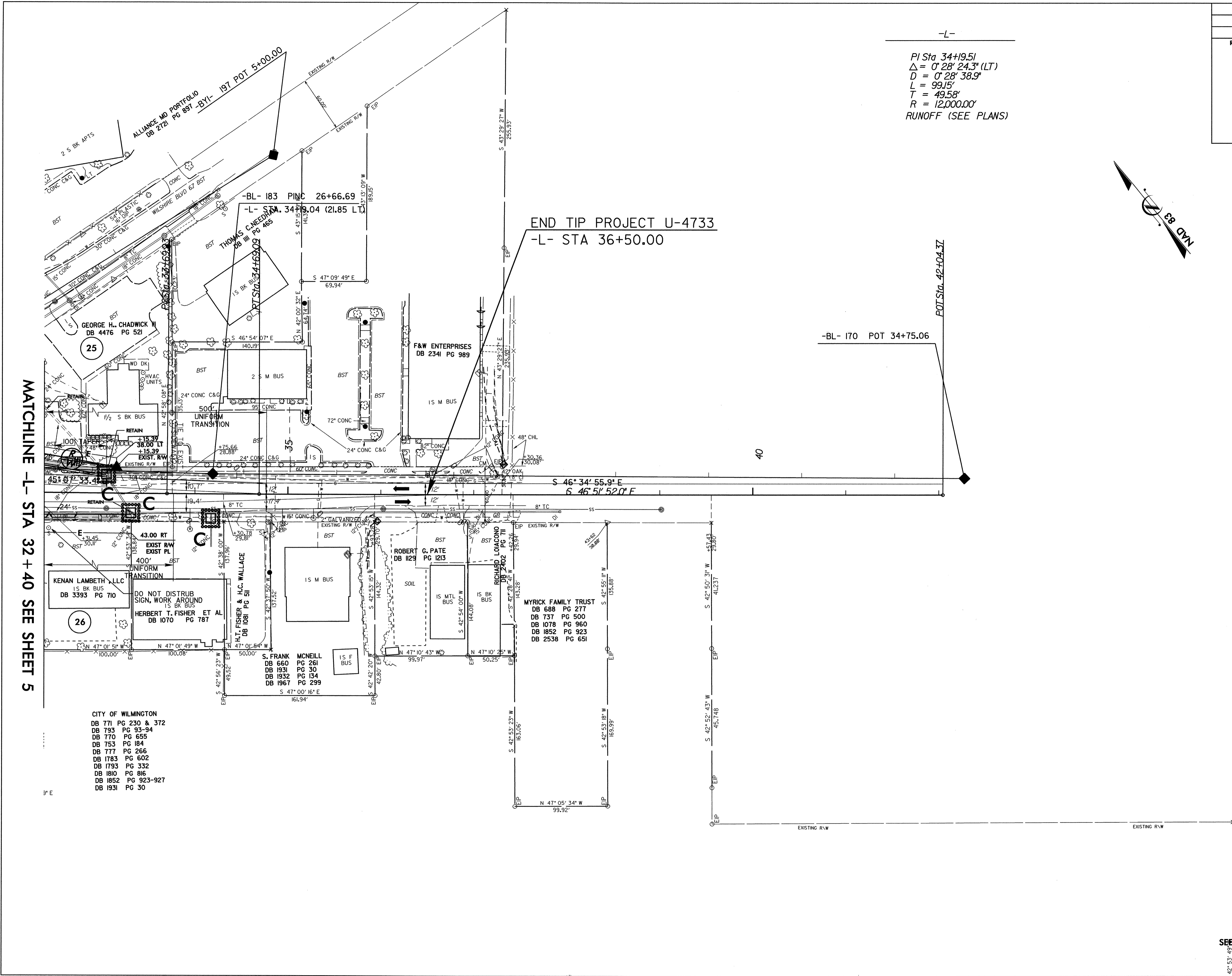
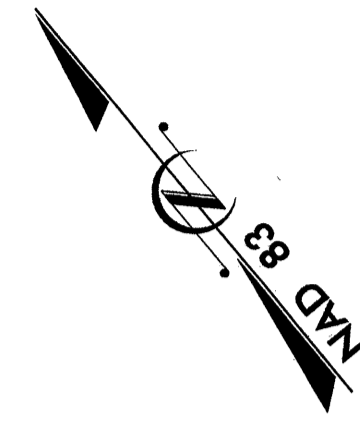
REPLACE

REPLACE

REPLACE

PROJECT REFERENCE NO.	SHEET NO.
U-4733	EC-9/CONST.6
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

-L-
 PI Sta 34+19.51
 $\Delta = 0' 28' 24.3" (LT)$
 $D = 0' 28' 38.9"$
 $L = 99.15'$
 $T = 49.58'$
 $R = 12,000.00'$
 RUNOFF (SEE PLANS)



MATCHLINE -L- STA 32+40 SEE SHEET 5

- CITY OF WILMINGTON
- DB 771 PG 230 & 372
 - DB 793 PG 33-94
 - DB 770 PG 655
 - DB 753 PG 184
 - DB 777 PG 266
 - DB 1783 PG 602
 - DB 1793 PG 332
 - DB 1810 PG 816
 - DB 1852 PG 923-927
 - DB 1931 PG 30

SEE SHEET 7 FOR PROFILE