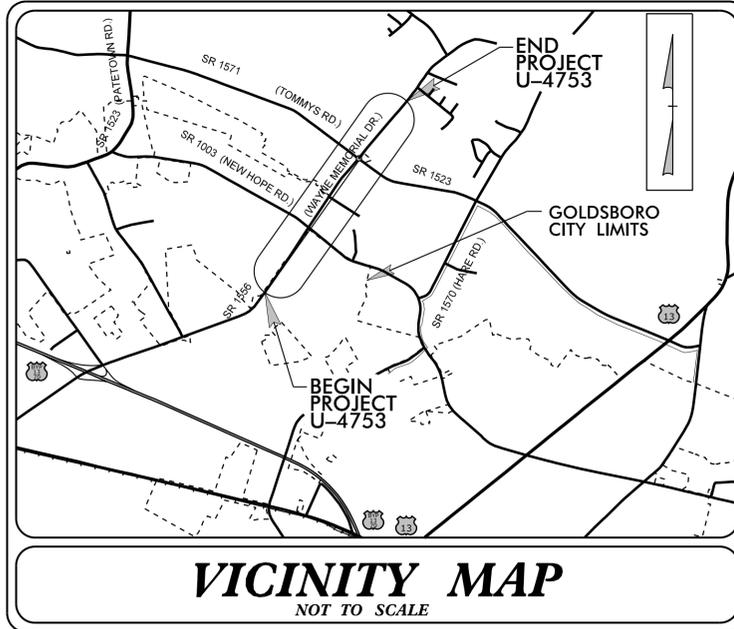
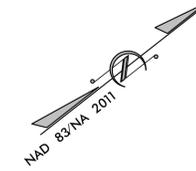


TIP PROJECT: U-4753



VICINITY MAP
NOT TO SCALE

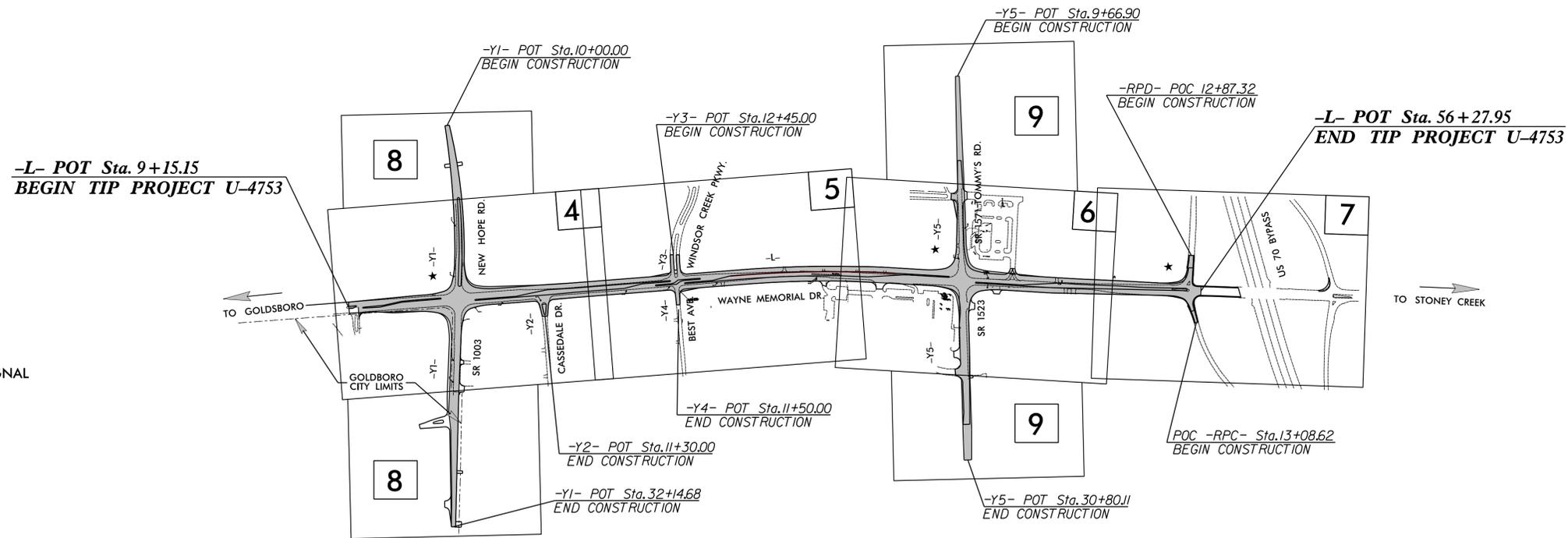
STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS
PLAN FOR PROPOSED
HIGHWAY EROSION CONTROL



WAYNE COUNTY

**LOCATION: SR 1556 (WAYNE MEMORIAL DR.) FROM SOUTH-
WEST OF SR 1003 (NEW HOPE RD.) TO US 70 BYPASS**

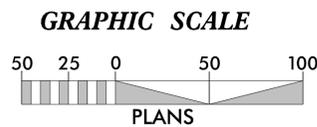
TYPE OF WORK: GRADING, DRAINAGE, PAVING, SIGNING & SIGNALS



★ DENOTES SIGNAL

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

THIS PROJECT HAS BEEN DESIGNED TO SENSITIVE WATERSHED STANDARDS.



THESE EROSION AND SEDIMENT CONTROL PLANS COMPLY WITH THE REGULATIONS SET FORTH BY THE NCG 010000 GENERAL STORMWATER CONSTRUCTION PERMIT ISSUED BY THE NORTH CAROLINA DEPARTMENT OF ENVIRONMENTAL QUALITY DIVISION OF ENERGY, MINERAL, AND LAND RESOURCES.

Prepared in the Office of:
SUNGATE DESIGN GROUP, P.A.

905 JONES FRANKLIN ROAD
RALEIGH, NORTH CAROLINA 27606
TEL (919) 859-2243
ENG FIRM LICENSE NO. C-890

Designed by:
BRIAN N. ELAM, PE **3195**
NAME LEVEL III CERTIFICATION NO.

Roadway Standard Drawings

The "Roadway Standard Drawings"- Roadway Design Unit - N. C. Department of Transportation - Raleigh, N. C., dated January 2024 and the latest revision thereto are applicable to this project and by reference hereby are considered a part of these plans.

DIVISION OF HIGHWAYS STATE OF NORTH CAROLINA

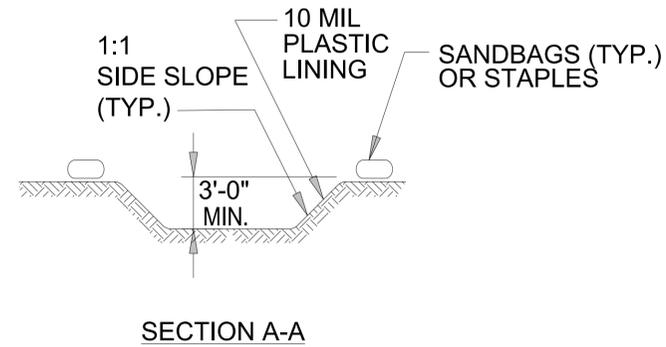
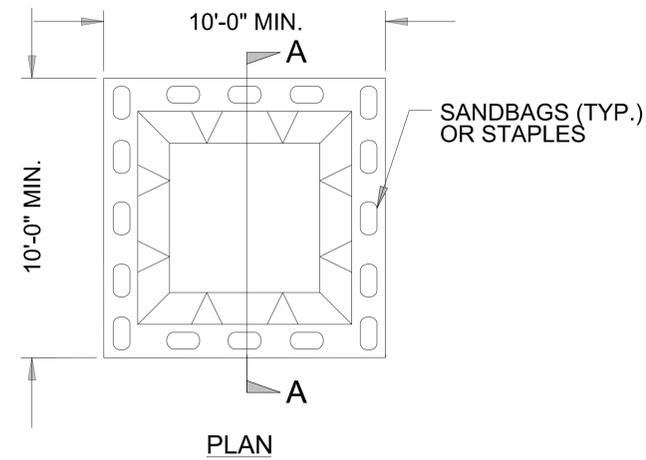
PROJECT REFERENCE NO. <i>U-4753</i>	SHEET NO. <i>EC-02</i>
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

EROSION & SEDIMENT CONTROL LEGEND

Std. #	Description	Symbol	Std. #	Description	Symbol
1605.01	Temporary Silt Fence		1633.01	Temporary Rock Silt Check Type A	
1606.01	Special Sediment Control Fence		1633.02	Temporary Rock Silt Check Type B	
1622.01	Temporary Berms and Slope Drains		1633.03	Temporary Rock Silt Check Type A with Excelsior Matting and Flocculant	
1630.02	Silt Basin Type B		1634.01	Temporary Rock Sediment Dam Type A	
1630.03	Temporary Silt Ditch		1634.02	Temporary Rock Sediment Dam Type B	
1630.04	Stilling Basin		1635.01	Rock Pipe Inlet Sediment Trap Type A	
1630.05	Temporary Diversion		1635.02	Rock Pipe Inlet Sediment Trap Type B	
1630.06	Special Stilling Basin		1636.01	Excelsior Wattle Check	
1630.07	Skimmer Basin		1636.01	Excelsior Wattle Check with Flocculant	
1630.08	Tiered Skimmer Basin		1636.01	Coir Fiber Wattle Check	
1630.09	Earthen Dam with Skimmer		1636.01	Coir Fiber Wattle Check with Flocculant	
	Infiltration Basin		1636.02	Silt Fence Excelsior Wattle Break	
	Rock Inlet Sediment Trap:			Silt Fence Coir Fiber Wattle Break	
1632.01	Type A		1636.03	Excelsior Wattle Barrier	
1632.02	Type B		1636.03	Coir Fiber Wattle Barrier	
1632.03	Type C				

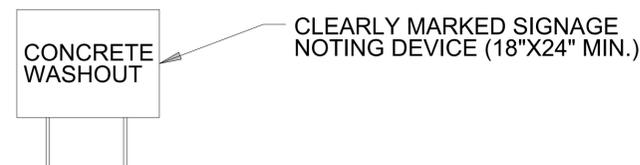
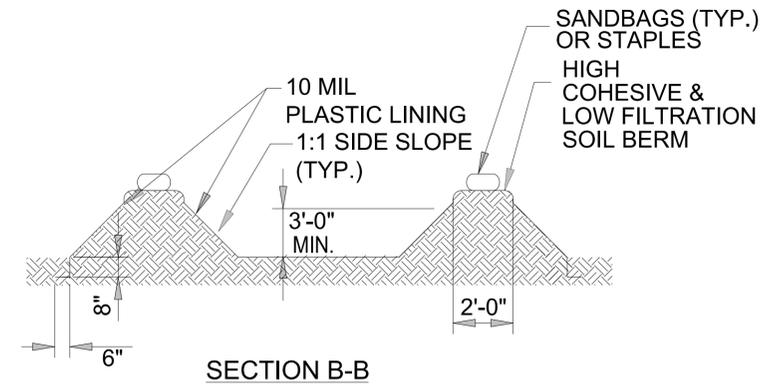
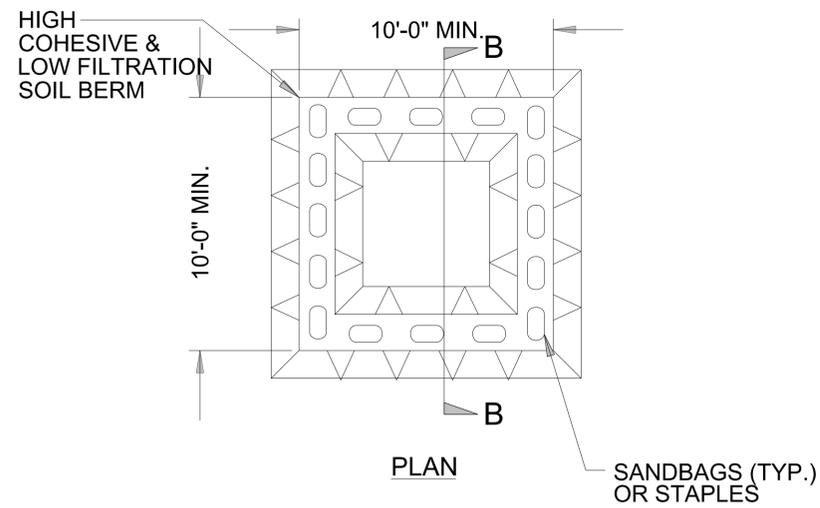
PROJECT REFERENCE NO. <i>U-4753</i>	SHEET NO. <i>EC-02A</i>
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

ONSITE CONCRETE WASHOUT STRUCTURE WITH LINER



BELOW GRADE WASHOUT STRUCTURE
NOT TO SCALE

- NOTES:
1. ACTUAL LOCATION DETERMINED IN FIELD
 2. THE CONCRETE WASHOUT STRUCTURES SHALL BE MAINTAINED WHEN THE LIQUID AND/OR SOLID REACHES 75% OF THE STRUCTURES CAPACITY TO PROVIDE ADEQUATE HOLDING CAPACITY WITH A MINIMUM 12 INCHES OF FREEBOARD.
 3. CONCRETE WASHOUT STRUCTURE NEEDS TO BE CLEARLY MARKED WITH SIGNAGE NOTING DEVICE.



ABOVE GRADE WASHOUT STRUCTURE
NOT TO SCALE

- NOTES:
1. ACTUAL LOCATION DETERMINED IN FIELD
 2. THE CONCRETE WASHOUT STRUCTURES SHALL BE MAINTAINED WHEN THE LIQUID AND/OR SOLID REACHES 75% OF THE STRUCTURES CAPACITY TO PROVIDE ADEQUATE HOLDING CAPACITY WITH A MINIMUM 12 INCHES OF FREEBOARD.
 3. CONCRETE WASHOUT STRUCTURE NEEDS TO BE CLEARLY MARKED WITH SIGNAGE NOTING DEVICE.

DIVISION OF HIGHWAYS
STATE OF NORTH CAROLINA

PROJECT REFERENCE NO.	SHEET NO.
<i>U-4753</i>	<i>EC-3B</i>
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

SOIL STABILIZATION TIMEFRAMES

<i>SITE DESCRIPTION</i>	<i>STABILIZATION TIME</i>	<i>TIMEFRAME EXCEPTIONS</i>
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 TO 4:1	14 DAYS	7 DAYS FOR SLOPES GREATER THAN 50' IN LENGTH WITH SLOPES STEEPER THAN 4:1. 7 DAYS FOR PERIMETER DIKES, SWALES, DITCHES PERIMETER SLOPES, AND HQW ZONES
ALL OTHER AREAS WITH SLOPES FLATTER THAN 4:1	14 DAYS	7 DAYS FOR PERIMETER DIKES, SWALES, DITCHES PERIMETER SLOPES, AND HQW ZONES

PROJECT REFERENCE NO.	SHEET NO.
U-4753	EC-04/CONST.04
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.

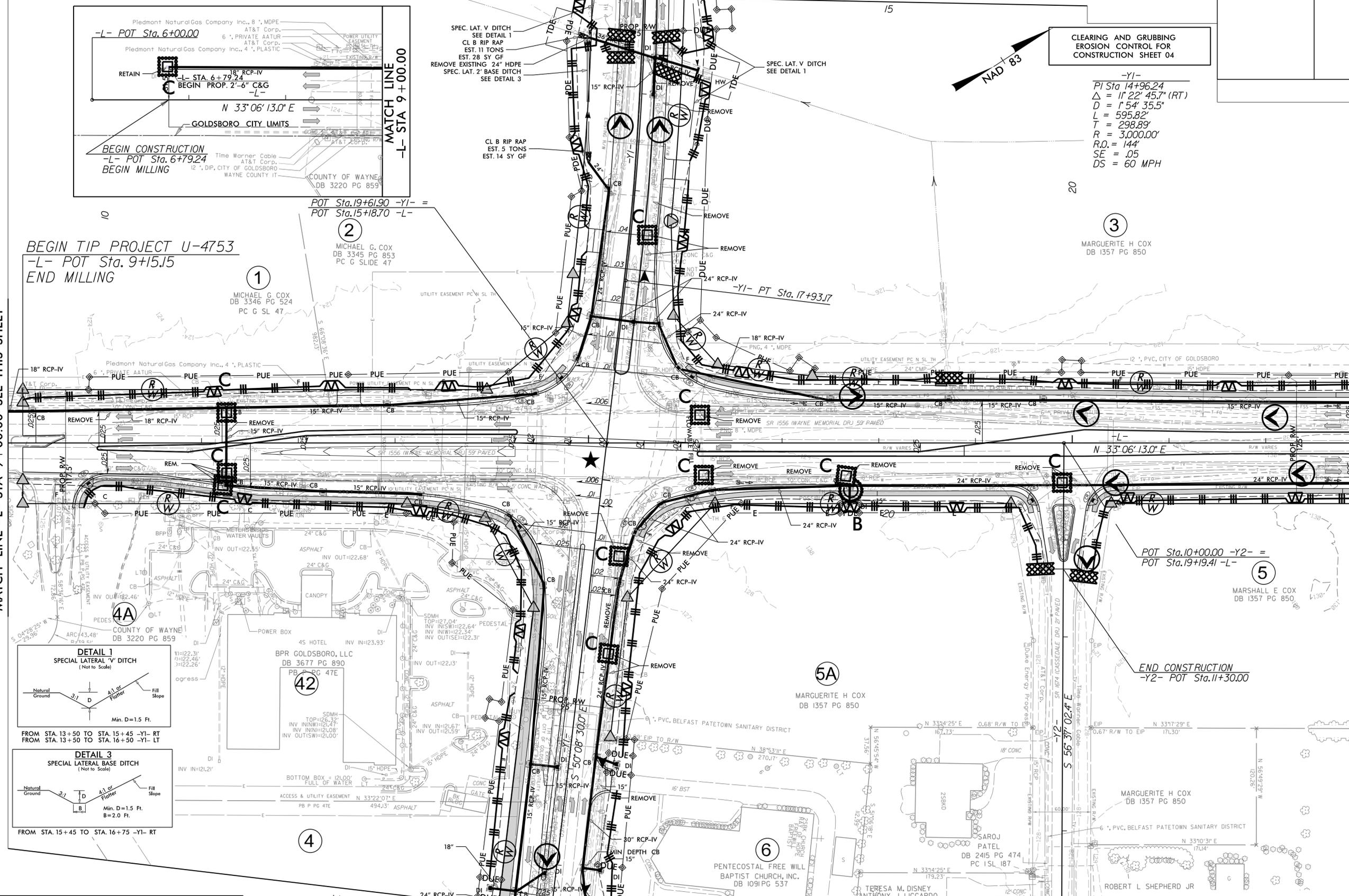
CLEARING AND GRUBBING EROSION CONTROL FOR CONSTRUCTION SHEET 04

-Y1-
PI Sta 14+96.24
Δ = 1' 22' 45.7" (RT)
D = 1' 54' 35.5"
L = 595.82'
T = 298.89'
R = 3,000.00'
R.O. = 144'
SE = .05
DS = 60 MPH

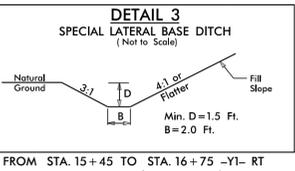
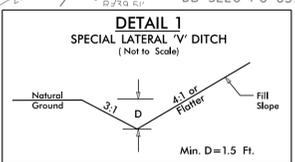
MATCH LINE -Y1- STA 15+00 SEE SHEET 8

MATCH LINE -L- STA 9+00.00 SEE THIS SHEET

MATCH LINE -L- STA 23+00 SEE SHEET 5



BEGIN TIP PROJECT U-4753
-L- POT Sta. 9+15.15
END MILLING



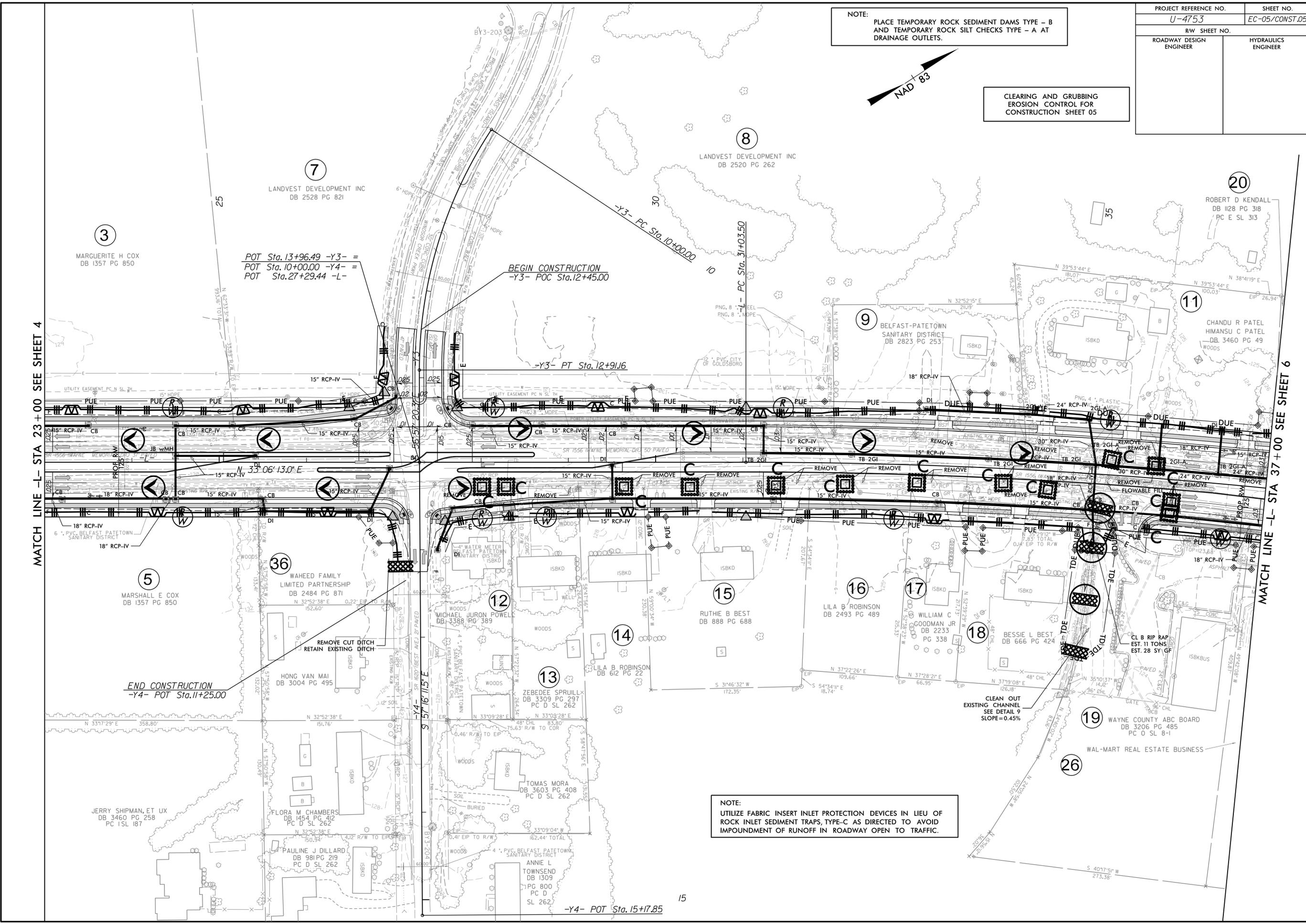
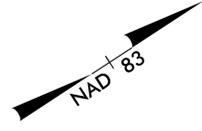
NOTE:
UTILIZE FABRIC INSERT INLET PROTECTION DEVICES IN LIEU OF ROCK INLET SEDIMENT TRAPS, TYPE-C AS DIRECTED TO AVOID IMPOUNDMENT OF RUNOFF IN ROADWAY OPEN TO TRAFFIC.

MATCH LINE -Y1- STA 24+50 SEE SHEET 8

PROJECT REFERENCE NO.	SHEET NO.
U-4753	EC-05/CONST.05
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 05



MATCH LINE -L- STA 23+00 SEE SHEET 4

MATCH LINE -L- STA 37+00 SEE SHEET 6

POT Sta. 13+96.49 -Y3- =
POT Sta. 10+00.00 -Y4- =
POT Sta. 27+29.44 -L-

BEGIN CONSTRUCTION
-Y3- POC Sta. 12+45.00

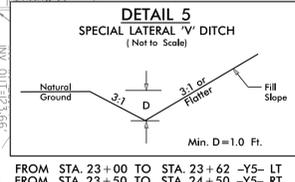
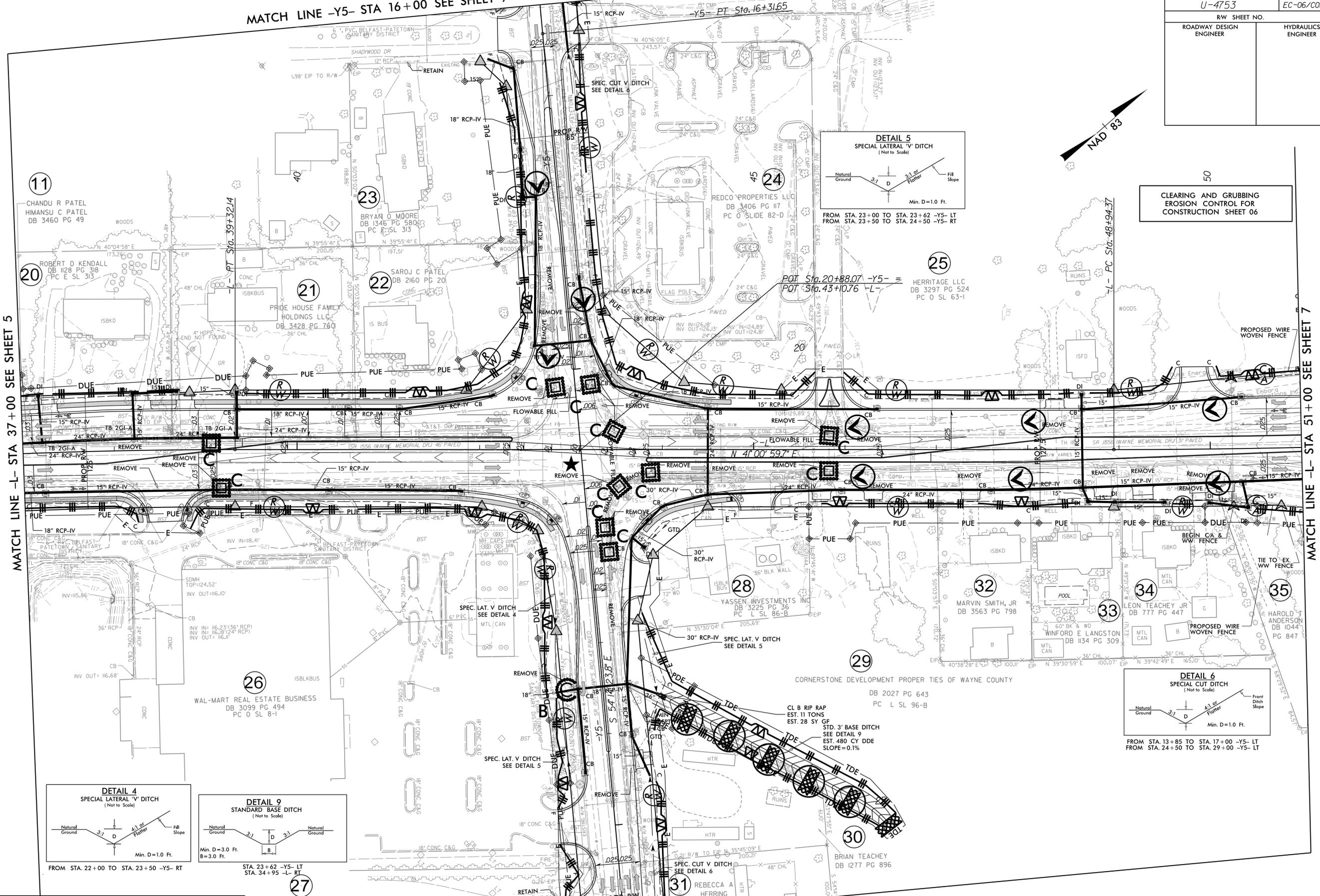
END CONSTRUCTION
-Y4- POT Sta. 11+25.00

-Y4- POT Sta. 15+17.85

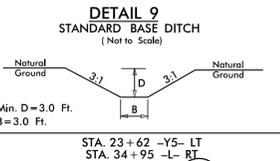
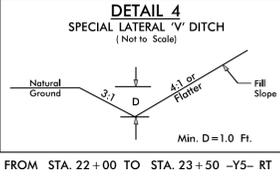
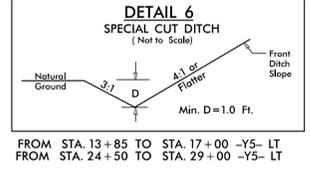
NOTE:
UTILIZE FABRIC INSERT INLET PROTECTION DEVICES IN LIEU OF
ROCK INLET SEDIMENT TRAPS, TYPE-C AS DIRECTED TO AVOID
IMPOUNDMENT OF RUNOFF IN ROADWAY OPEN TO TRAFFIC.

MATCH LINE -Y5- STA 16+00 SEE SHEET 9

PROJECT REFERENCE NO.	SHEET NO.
U-4753	EC-06/CONST.06
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER



50
CLEARING AND GRUBBING
EROSION CONTROL FOR
CONSTRUCTION SHEET 06



NOTE:
UTILIZE FABRIC INSERT INLET PROTECTION DEVICES IN LIEU OF ROCK INLET SEDIMENT TRAPS, TYPE-C AS DIRECTED TO AVOID IMPOUNDMENT OF RUNOFF IN ROADWAY OPEN TO TRAFFIC.

WAYNE COUNTY BOARD OF EDUCATION
DB 1716 PG 440
PC L SL 22H
PC L SL 22I

MATCH LINE -Y5- STA 26+00 SEE SHEET 9

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

MATCH LINE -L- STA 37+00 SEE SHEET 5

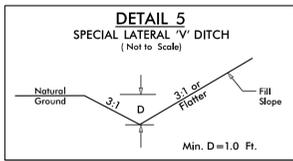
MATCH LINE -L- STA 51+00 SEE SHEET 7



PROJECT REFERENCE NO.	SHEET NO.
U-4753	EC-07/CONST.07
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

CLEARING AND GRUBBING
EROSION CONTROL FOR
CONSTRUCTION SHEET 07

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



FROM STA. 51+50 TO STA. 54+75 -L- LT
FROM STA. 13+50 TO STA. 13+75 -RPD- RT

DEPTH READINGS WERE OBTAINED BY USING
A VIVAX V-LOG, 5 METROTECH, 80, AND A
IMPULSE RADAR PINPOINTER GPR.

25

HERRITAGE LLC
DB 3297 PG 524
PC 0 SL 63-1

MATCH LINE -L- STA 51+00 SEE SHEET 6

L B RIP RAP
EST. 2 TONS
ST. 7 SY GF

41

HAROLD T ANDERSON
DB 1035 PG 355

MALCOLM Z GURLEY
DB 1044 PG 849

HAROLD T ANDERSON
DB 1044
PG 847
39°10'03" E
57.96'

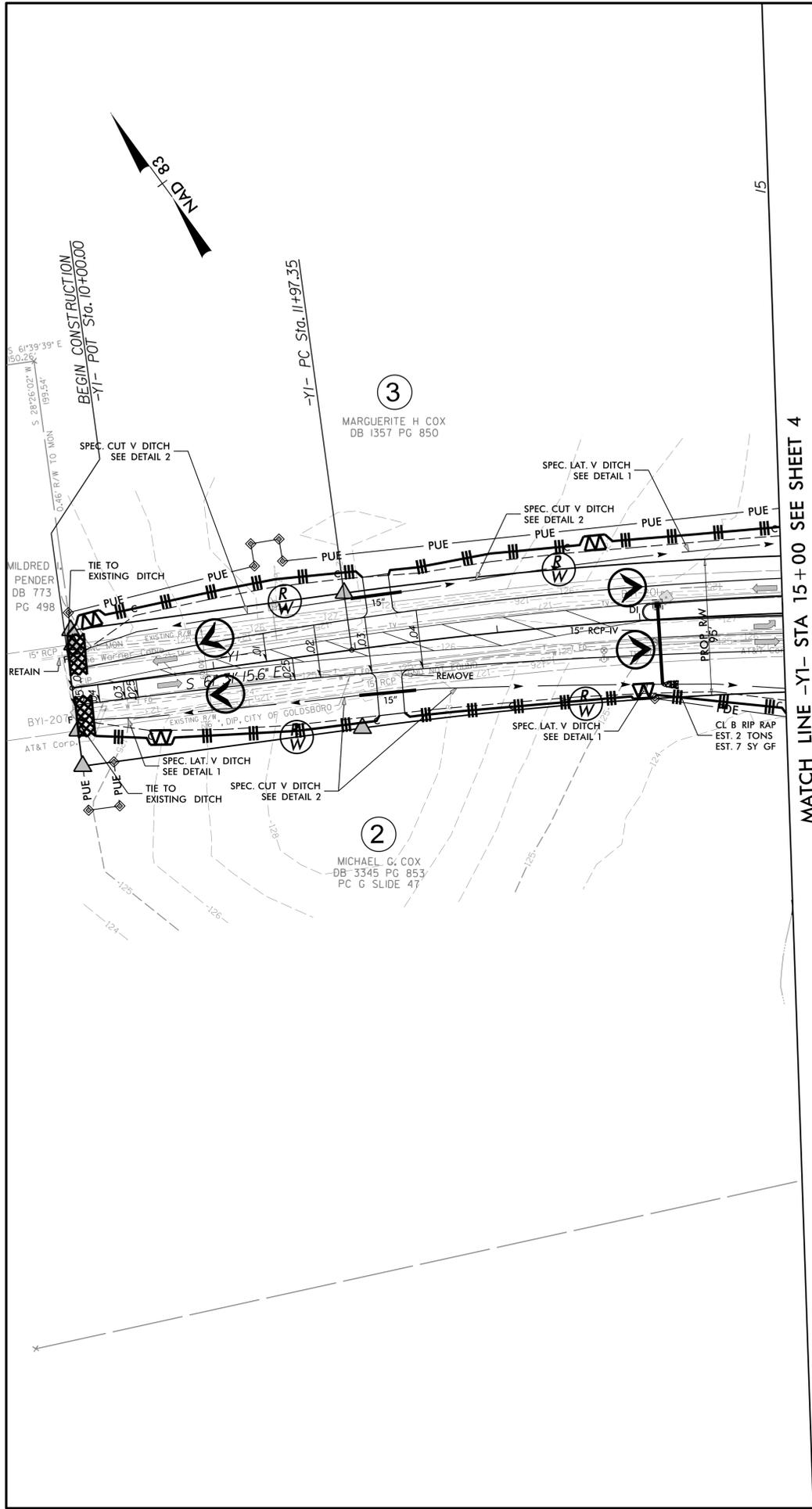
26.81'
W 80°16'53" N

37°39'52" E
99.44'

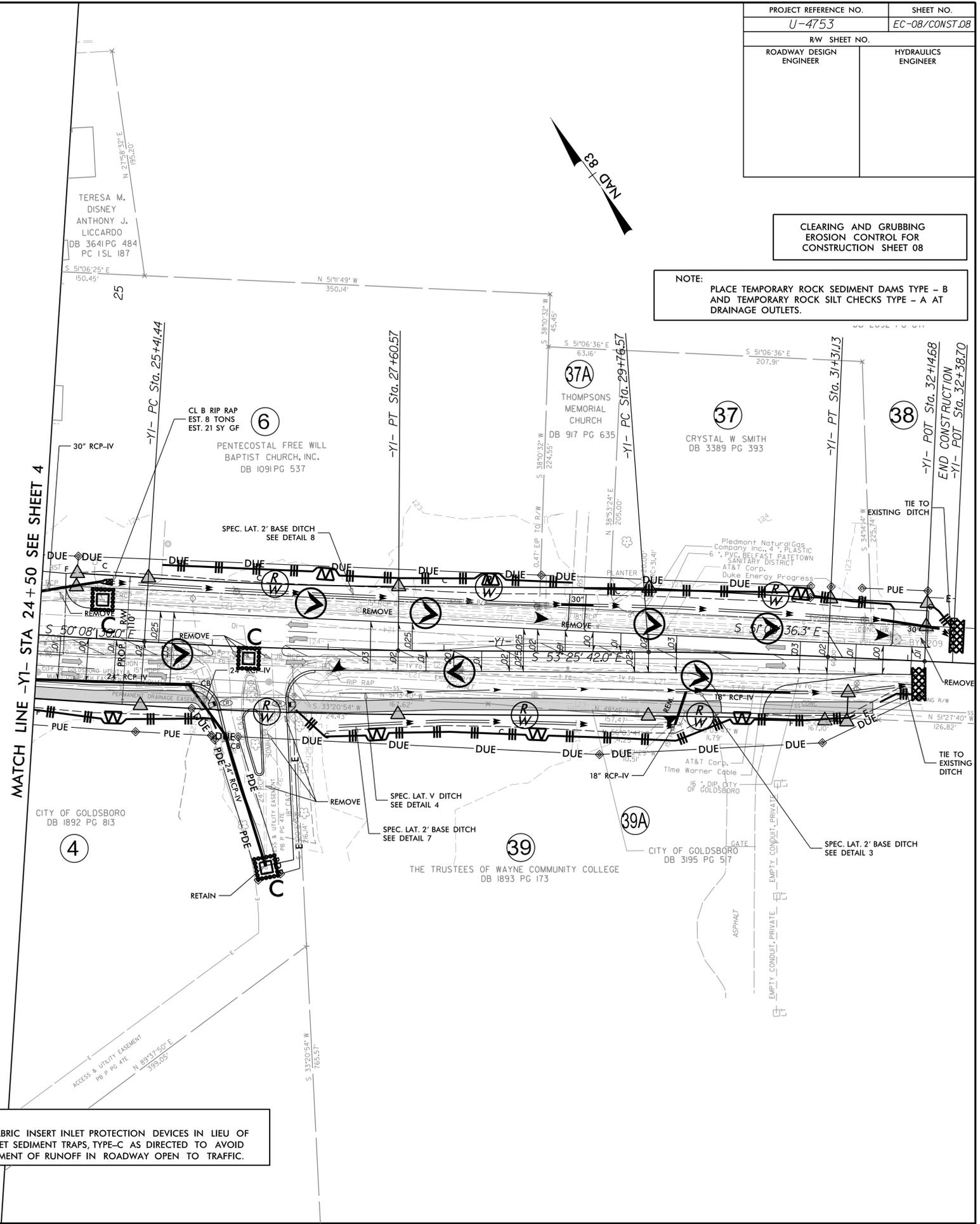
PROJECT REFERENCE NO.	SHEET NO.
U-4753	EC-08/CONST.08
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

CLEARING AND GRUBBING
EROSION CONTROL FOR
CONSTRUCTION SHEET 08

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



MATCH LINE -Y1- STA 15+00 SEE SHEET 4



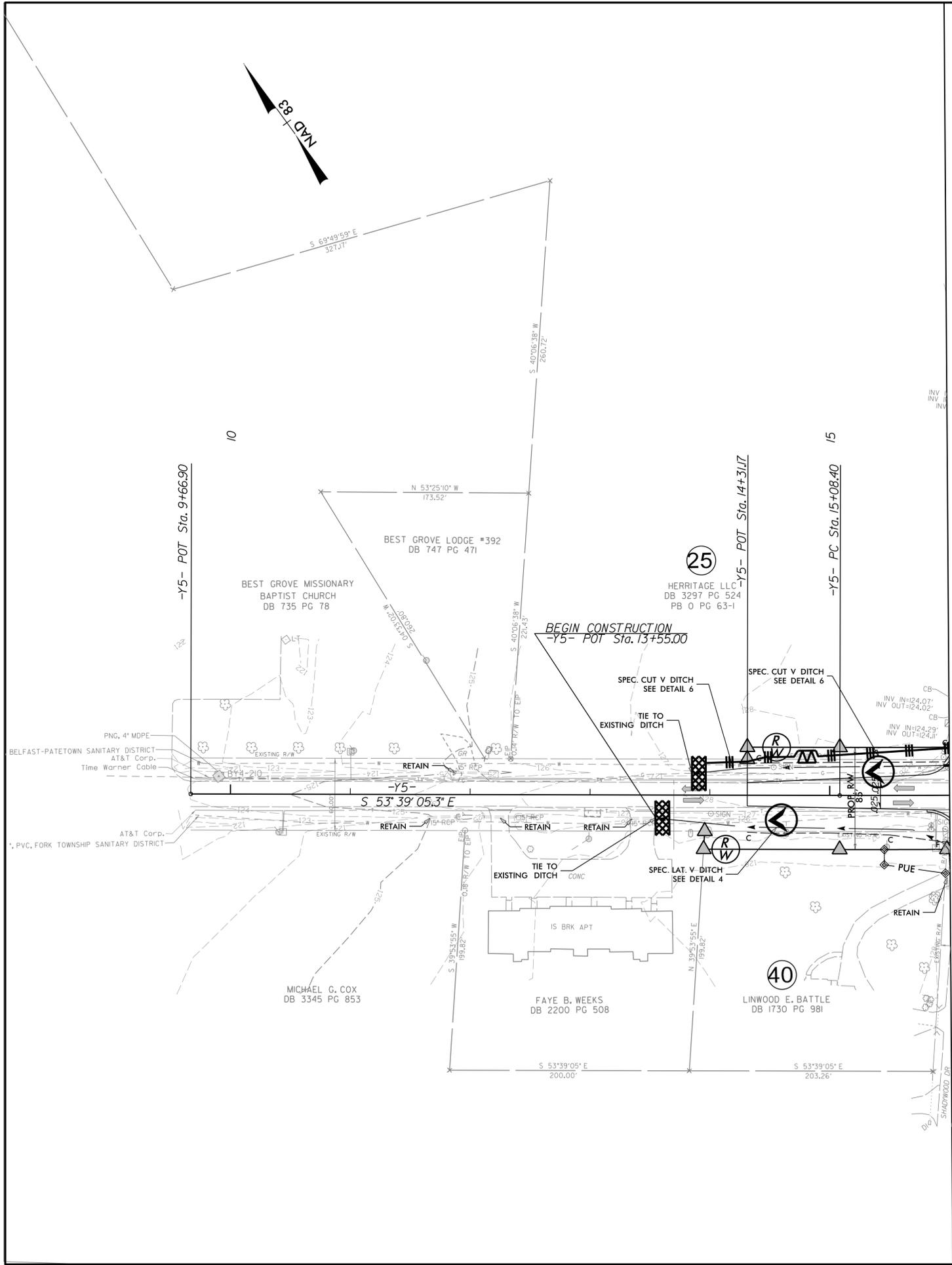
MATCH LINE -Y1- STA 24+50 SEE SHEET 4

NOTE:
UTILIZE FABRIC INSERT INLET PROTECTION DEVICES IN LIEU OF
ROCK INLET SEDIMENT TRAPS, TYPE-C AS DIRECTED TO AVOID
IMPOUNDMENT OF RUNOFF IN ROADWAY OPEN TO TRAFFIC.

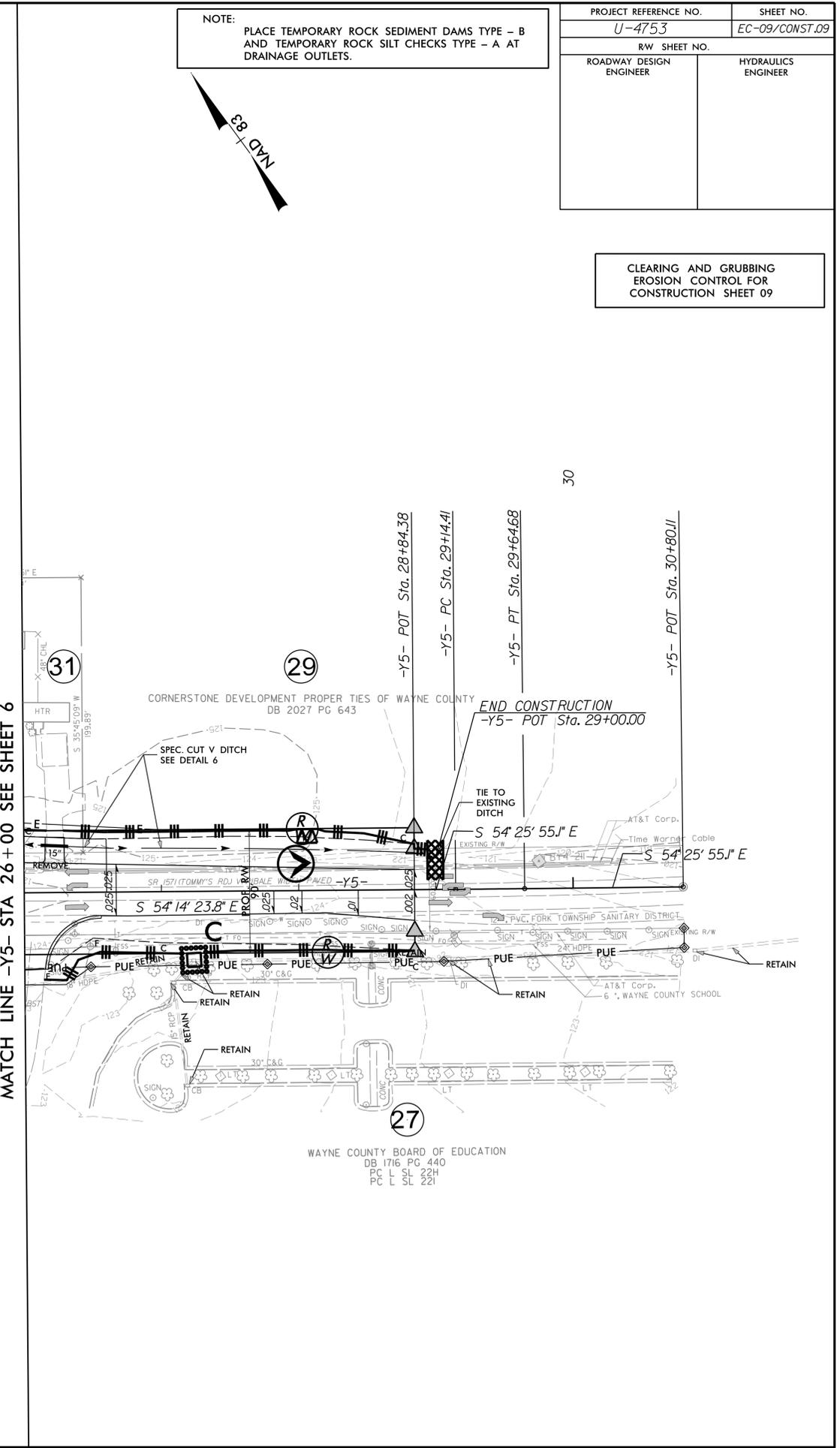
PROJECT REFERENCE NO.	SHEET NO.
U-4753	EC-09/CONST.09
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

CLEARING AND GRUBBING
EROSION CONTROL FOR
CONSTRUCTION SHEET 09

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



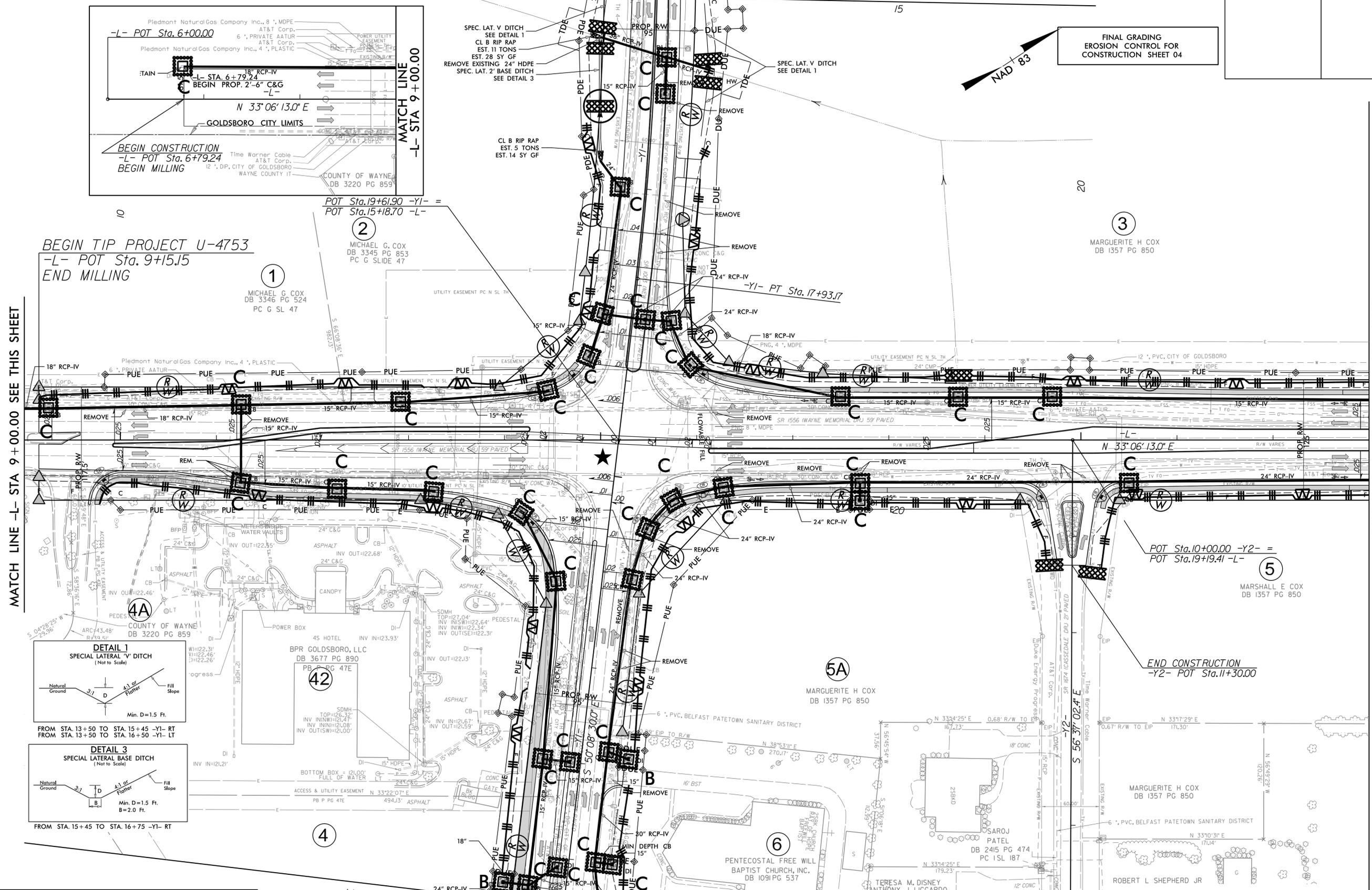
MATCH LINE -Y5- STA 16+00 SEE SHEET 6



MATCH LINE -Y5- STA 26+00 SEE SHEET 6

PROJECT REFERENCE NO.	SHEET NO.
U-4753	EC-10/CONST.04
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

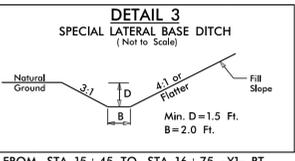
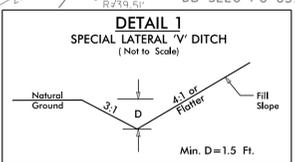
MATCH LINE -Y1- STA 15+00 SEE SHEET 8



BEGIN TIP PROJECT U-4753
-L- POT Sta. 9+15.15
END MILLING

MATCH LINE -L- STA 9+00.00 SEE THIS SHEET

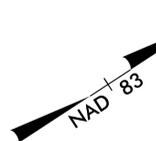
MATCH LINE -L- STA 23+00 SEE SHEET 5



NOTE:
UTILIZE FABRIC INSERT INLET PROTECTION DEVICES IN LIEU OF ROCK INLET SEDIMENT TRAPS, TYPE-C AS DIRECTED TO AVOID IMPOUNDMENT OF RUNOFF IN ROADWAY OPEN TO TRAFFIC.

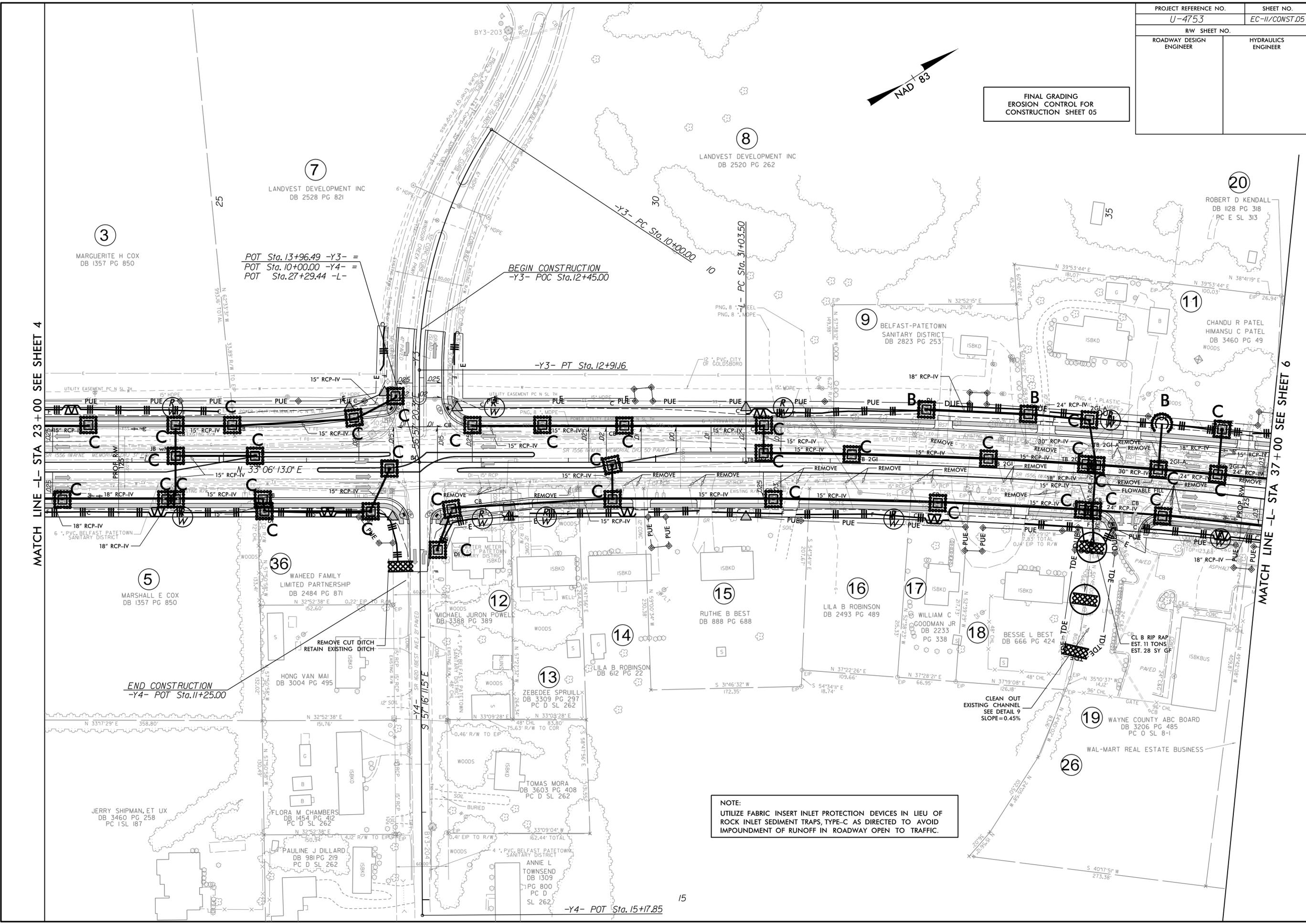
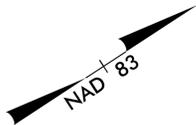
MATCH LINE -Y1- STA 24+50 SEE SHEET 8

FINAL GRADING
EROSION CONTROL FOR
CONSTRUCTION SHEET 04



PROJECT REFERENCE NO.	SHEET NO.
U-4753	EC-II/CONST.05
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

FINAL GRADING
EROSION CONTROL
CONSTRUCTION SHEET 05



MATCH LINE -L- STA 23+00 SEE SHEET 4

MATCH LINE -L- STA 37+00 SEE SHEET 6

POT Sta. 13+96.49 -Y3- =
POT Sta. 10+00.00 -Y4- =
POT Sta. 27+29.44 -L-

BEGIN CONSTRUCTION
-Y3- POC Sta. 12+45.00

-Y3- PT Sta. 12+91.16

END CONSTRUCTION
-Y4- POT Sta. 11+25.00

NOTE:
UTILIZE FABRIC INSERT INLET PROTECTION DEVICES IN LIEU OF
ROCK INLET SEDIMENT TRAPS, TYPE-C AS DIRECTED TO AVOID
IMPOUNDMENT OF RUNOFF IN ROADWAY OPEN TO TRAFFIC.

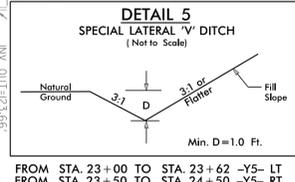
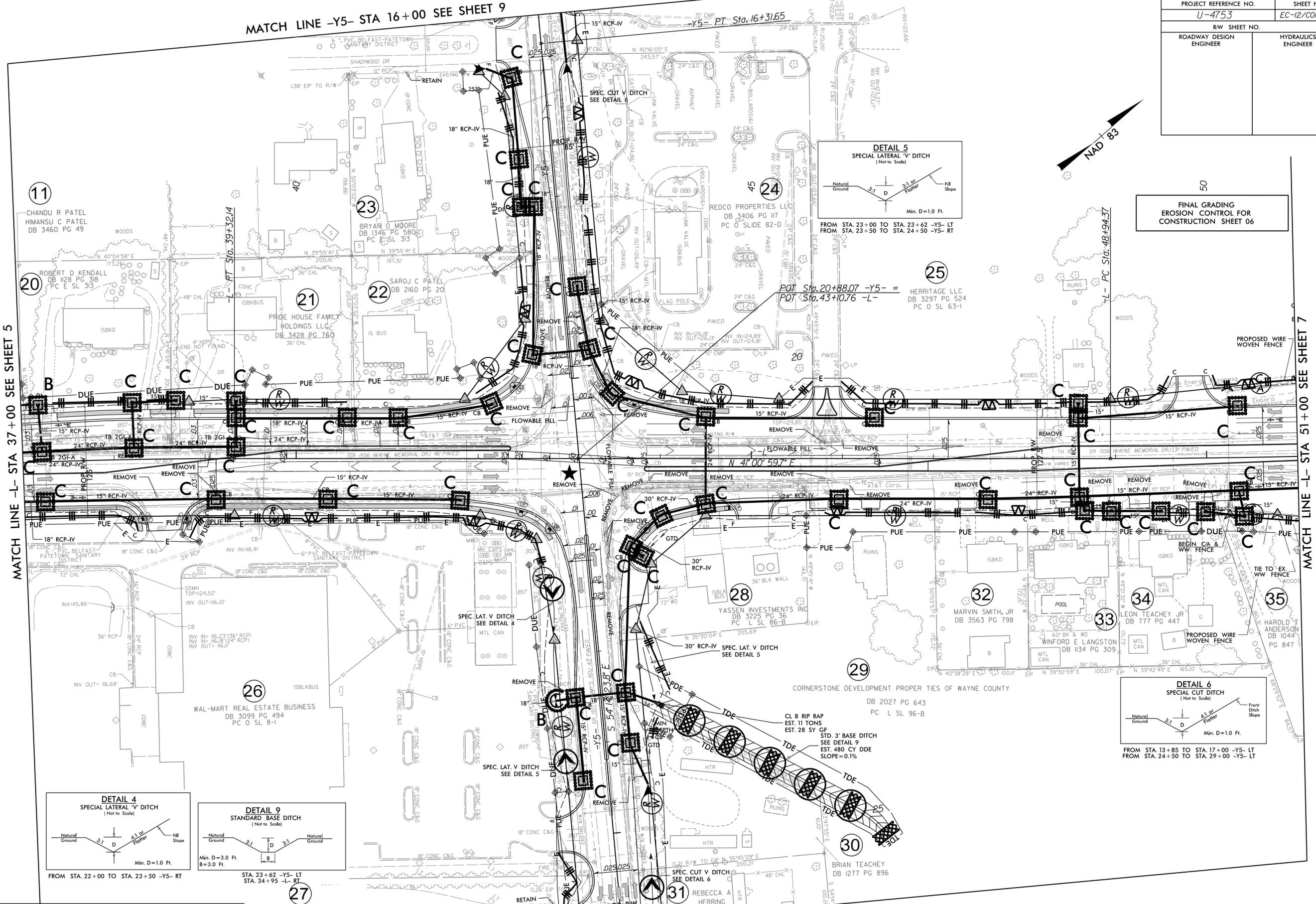
-Y4- POT Sta. 15+17.85

MATCH LINE -Y5- STA 16+00 SEE SHEET 9

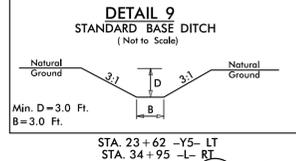
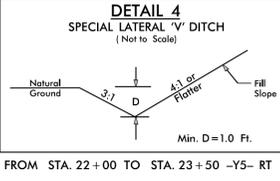
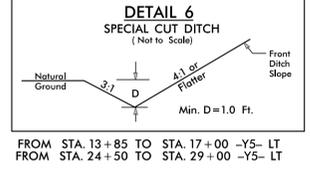
PROJECT REFERENCE NO.	SHEET NO.
U-4753	EC-12/CONST.06
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

MATCH LINE -L- STA 37+00 SEE SHEET 5

MATCH LINE -L- STA 51+00 SEE SHEET 7



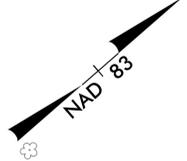
50
FINAL GRADING
EROSION CONTROL FOR
CONSTRUCTION SHEET 06



NOTE:
UTILIZE FABRIC INSERT INLET PROTECTION DEVICES IN LIEU OF ROCK INLET SEDIMENT TRAPS, TYPE-C AS DIRECTED TO AVOID IMPOUNDMENT OF RUNOFF IN ROADWAY OPEN TO TRAFFIC.

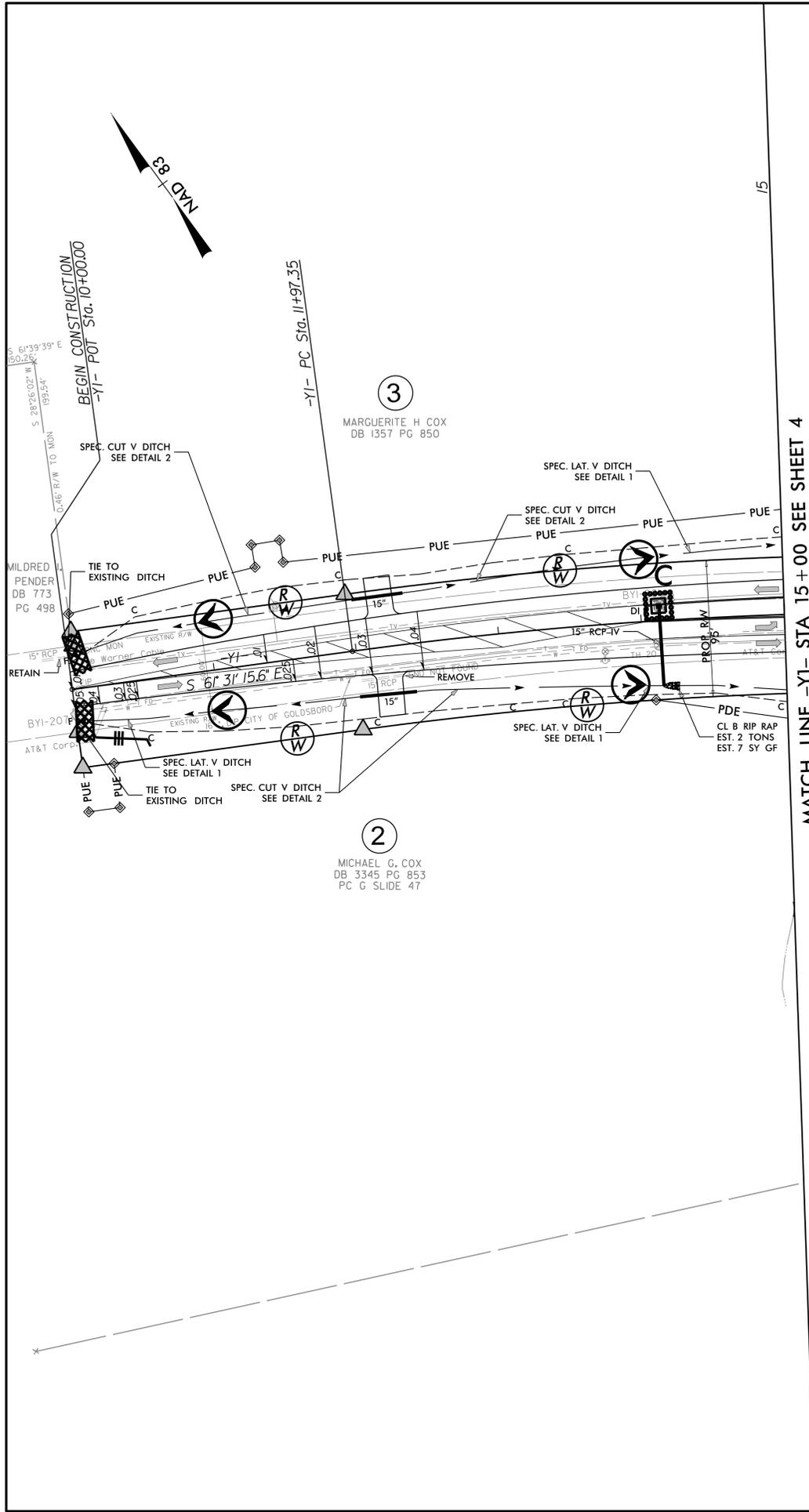
WAYNE COUNTY BOARD OF EDUCATION
DB 1716 PG 440
PC L SL 22H
PC L SL 22I

MATCH LINE -Y5- STA 26+00 SEE SHEET 9

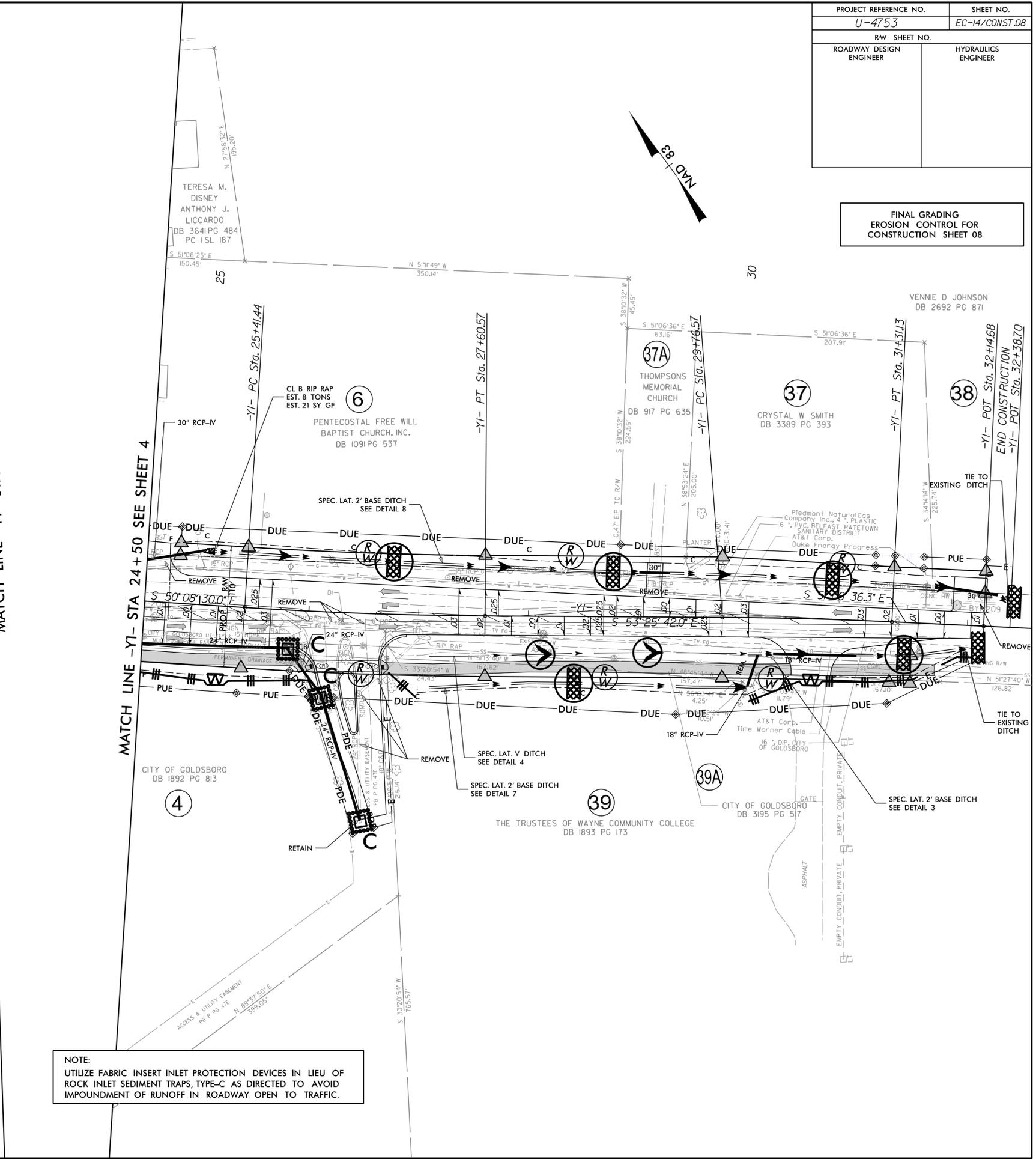


PROJECT REFERENCE NO.	SHEET NO.
U-4753	EC-14/CONST.08
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

FINAL GRADING
EROSION CONTROL FOR
CONSTRUCTION SHEET 08



MATCH LINE -Y1- STA 15+00 SEE SHEET 4

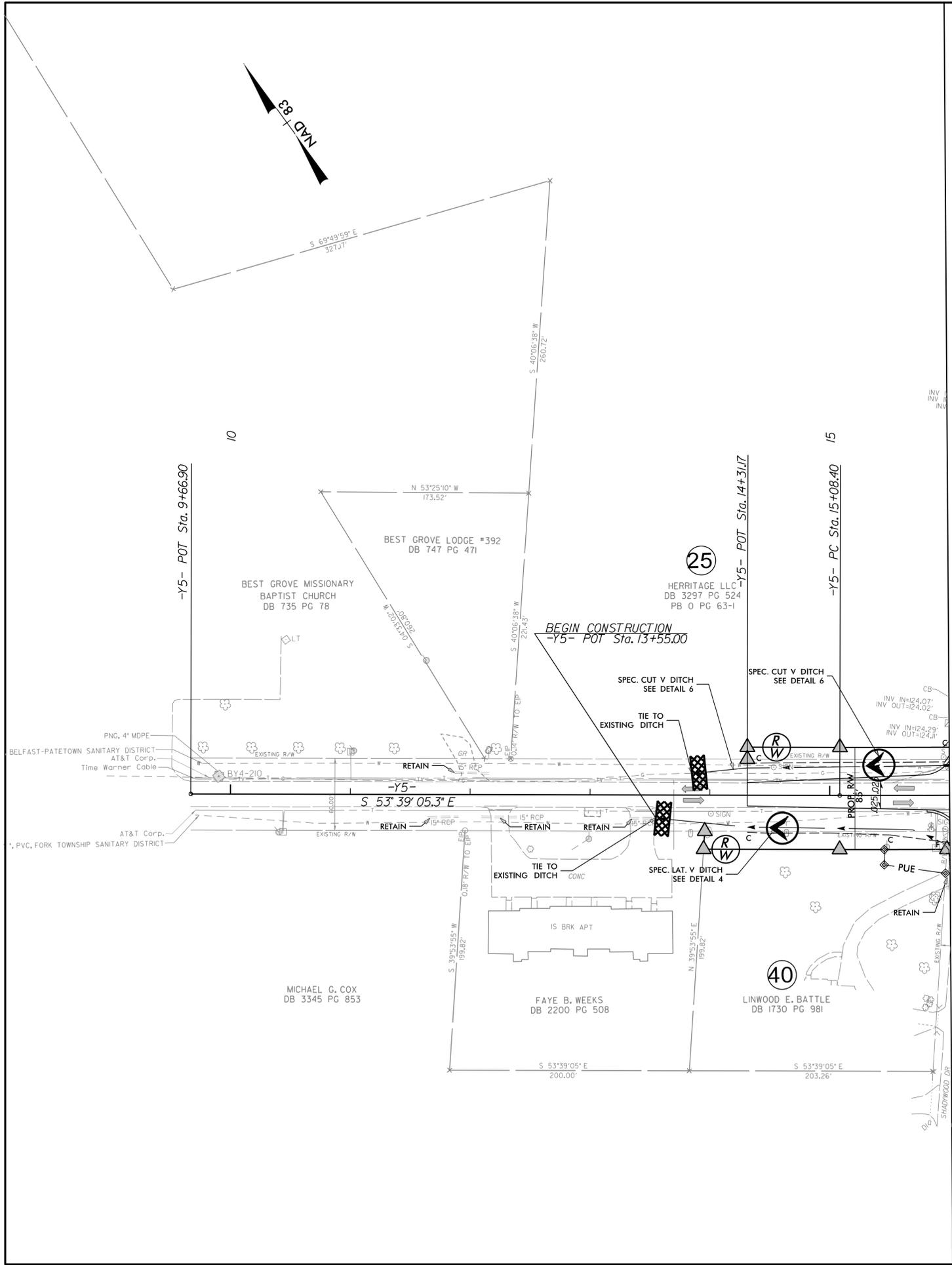


MATCH LINE -Y1- STA 24+50 SEE SHEET 4

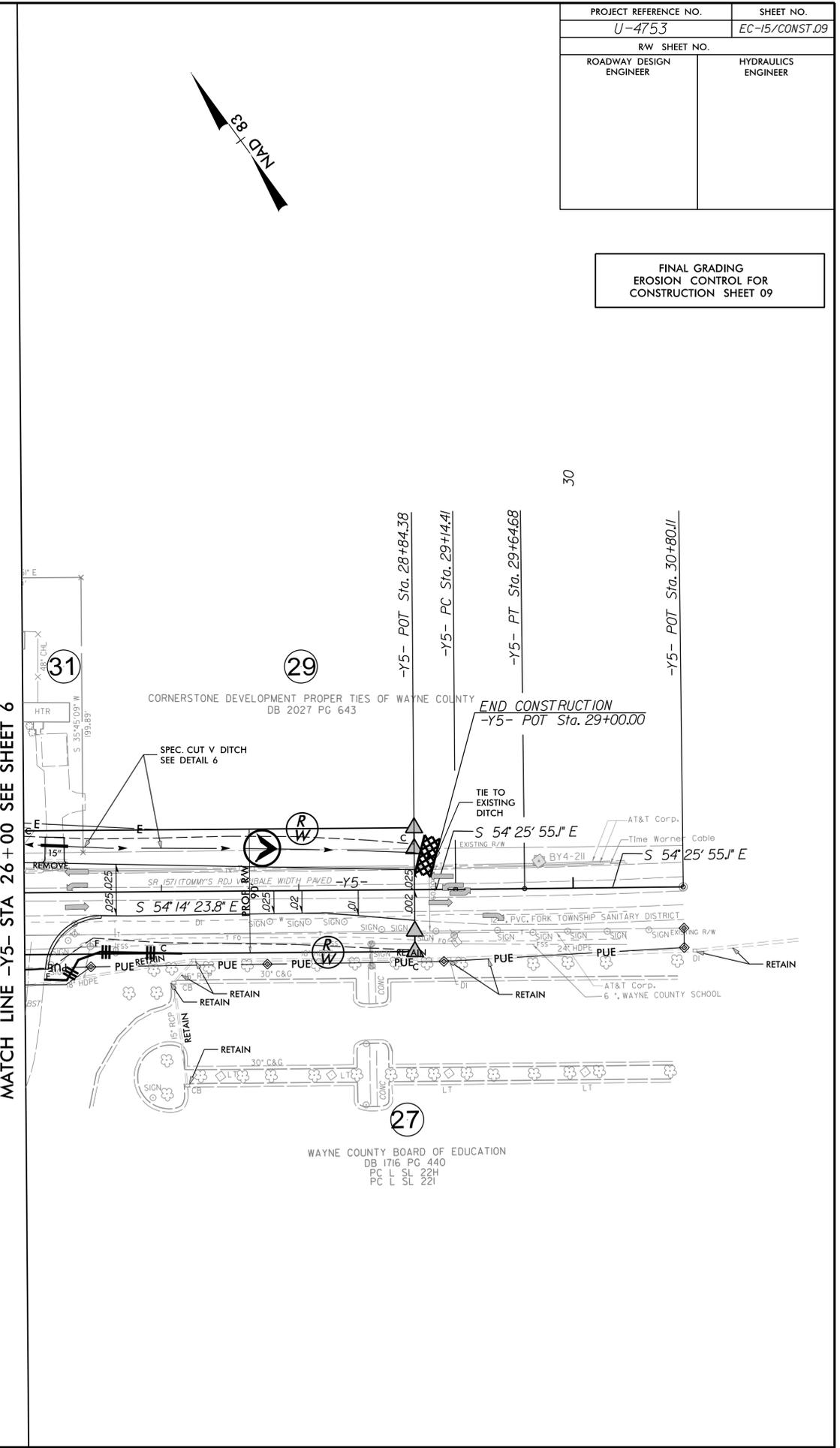
NOTE:
UTILIZE FABRIC INSERT INLET PROTECTION DEVICES IN LIEU OF
ROCK INLET SEDIMENT TRAPS, TYPE-C AS DIRECTED TO AVOID
IMPOUNDMENT OF RUNOFF IN ROADWAY OPEN TO TRAFFIC.

PROJECT REFERENCE NO.	SHEET NO.
U-4753	EC-15/CONST.09
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

FINAL GRADING
EROSION CONTROL FOR
CONSTRUCTION SHEET 09



MATCH LINE -Y5- STA 16+00 SEE SHEET 6



MATCH LINE -Y5- STA 26+00 SEE SHEET 6