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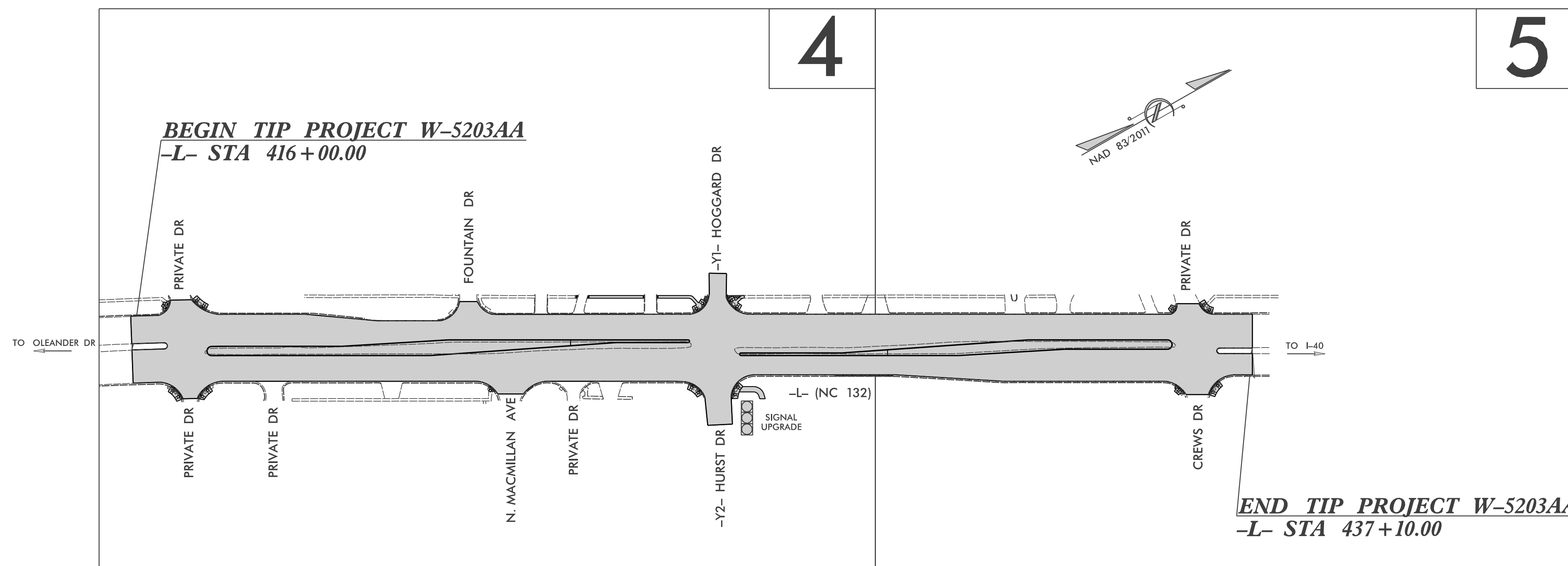
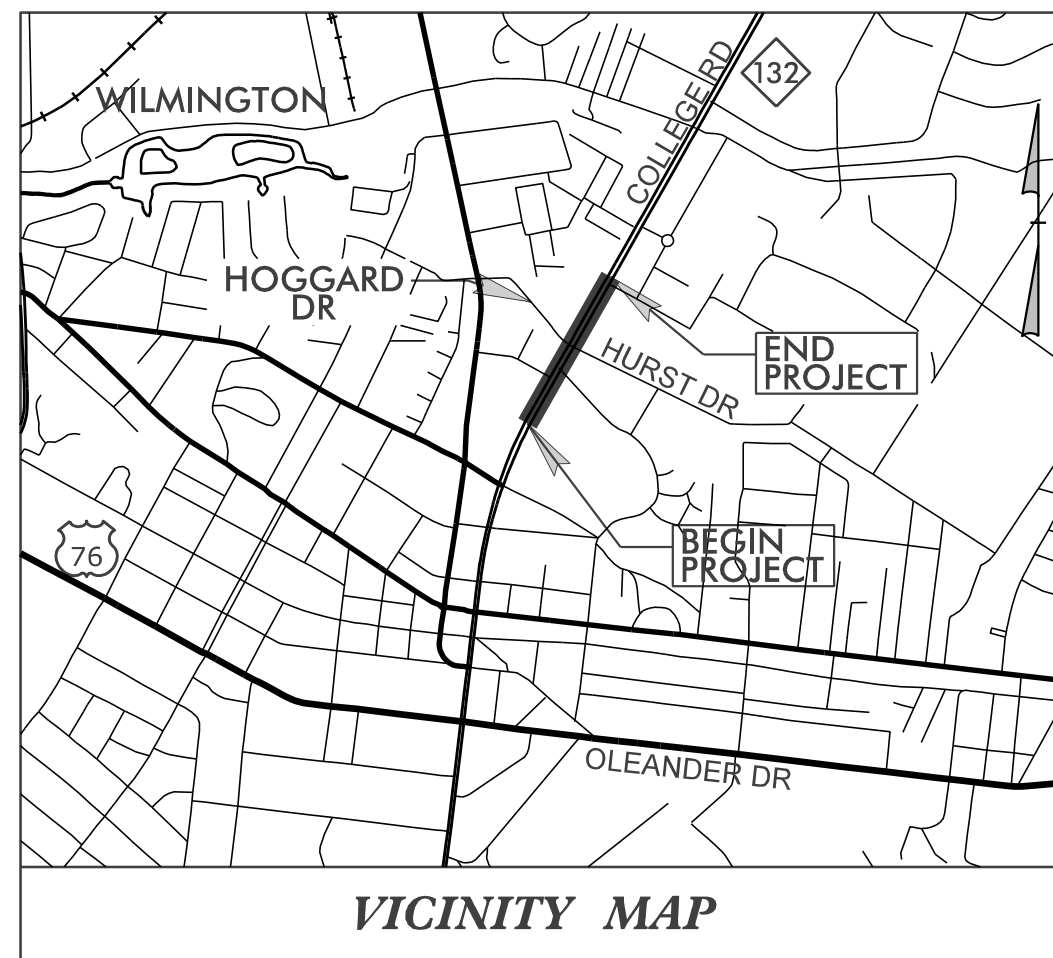
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TIP PROJECT: W-5203AA

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

LOCATION: WILMINGTON - NC 132 (COLLEGE ROAD) AT HOGGARD DRIVE /HURST DRIVE

TYPE OF WORK: GRADING, DRAINAGE, PAVING, AND SIGNALS



THIS PROJECT IS LOCATED WITHIN THE MUNICIPAL BOUNDARIES OF THE CITY OF WILMINGTON. CLEARING ON THIS PROJECT SHALL BE PERFORMED TO THE LIMITS ESTABLISHED BY METHOD III.

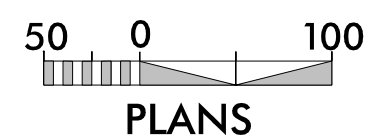
STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	W-5203AA	EC-1	
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION	
45333.1.FS27	HSIP-0117(29)	PE	

EROSION AND SEDIMENT CONTROL MEASURES

Std. #	Description	Symbol
1630.03	Temporary Silt Ditch	TD
1630.05	Temporary Diversion	TD
1605.01	Temporary Silt Fence	TSF
1606.01	Special Sediment Control Fence	SSCF
1622.01	Temporary Berms and Slope Drains	TBSD
1630.02	Silt Basin Type B	SB
1633.01	Temporary Rock Silt Check Type-A	TRSCA
	Temporary Rock Silt Check Type-A with Matting and Polyacrylamide (PAM)	TRSCA-PAM
1633.02	Temporary Rock Silt Check Type-B	TRSCB
	Wattle / Coir Fiber Wattle	WCFW
	Wattle / Coir Fiber Wattle with Polyacrylamide (PAM)	WCFW-PAM
1634.01	Temporary Rock Sediment Dam Type-A	TRSDA
1634.02	Temporary Rock Sediment Dam Type-B	TRSDB
1635.01	Rock Pipe Inlet Sediment Trap Type-A	RPISTRA
1635.02	Rock Pipe Inlet Sediment Trap Type-B	RPISTRB
1630.04	Stilling Basin	SB
1630.06	Special Stilling Basin	SSB
	Rock Inlet Sediment Trap:	
1632.01	Type A	A
1632.02	Type B	B
1632.03	Type C	C
	Skimmer Basin	SKB
	Tiered Skimmer Basin	TSKB
	Infiltration Basin	IB

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

GRAPHIC SCALE



RIGHT OF WAY DATE:
MARCH 29, 2016

LETTING DATE:
AUGUST 16, 2016

THESE EROSION AND SEDIMENT CONTROL PLANS COMPLY WITH THE REGULATIONS SET FORTH BY THE NCG-010000 GENERAL CONSTRUCTION PERMIT EFFECTIVE AUGUST 3, 2011 AND ISSUED BY THE NORTH CAROLINA DEPARTMENT OF ENVIRONMENT AND NATURAL RESOURCES DIVISION OF WATER RESOURCES.

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



Designed by:

JOSHUA M. CLEMMONS, EI #3473
NAME LEVEL III CERTIFICATION NO.

Reviewed in the Office of:
ROADSIDE ENVIRONMENTAL UNIT

1 South Wilmington St.
Raleigh, NC 27611

2012 STANDARD SPECIFICATIONS

Reviewed by:

WES CHANDLER, EI

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 2012 and the latest revision 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 Silt 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	

DIVISION OF HIGHWAYS
STATE OF NORTH CAROLINA

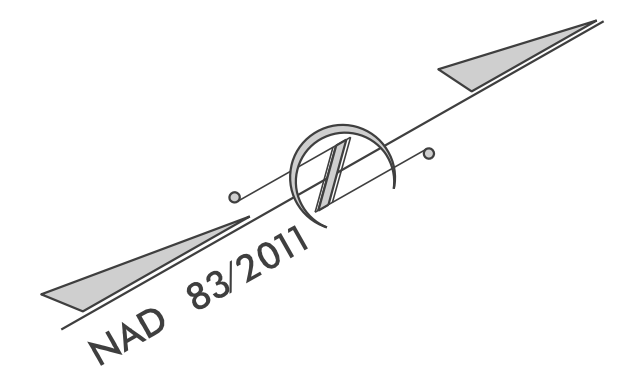
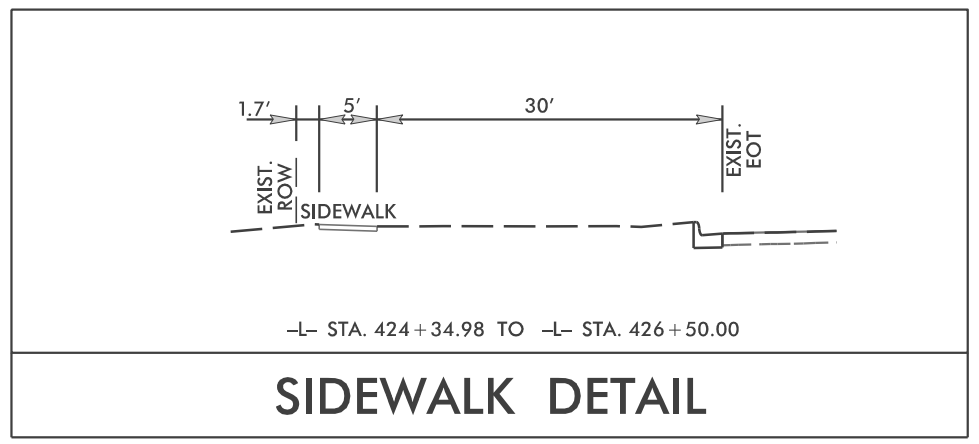
PROJECT REFERENCE NO.	SHEET NO.
W-5203AA	EC-2
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

SOIL STABILIZATION TIMEFRAMES

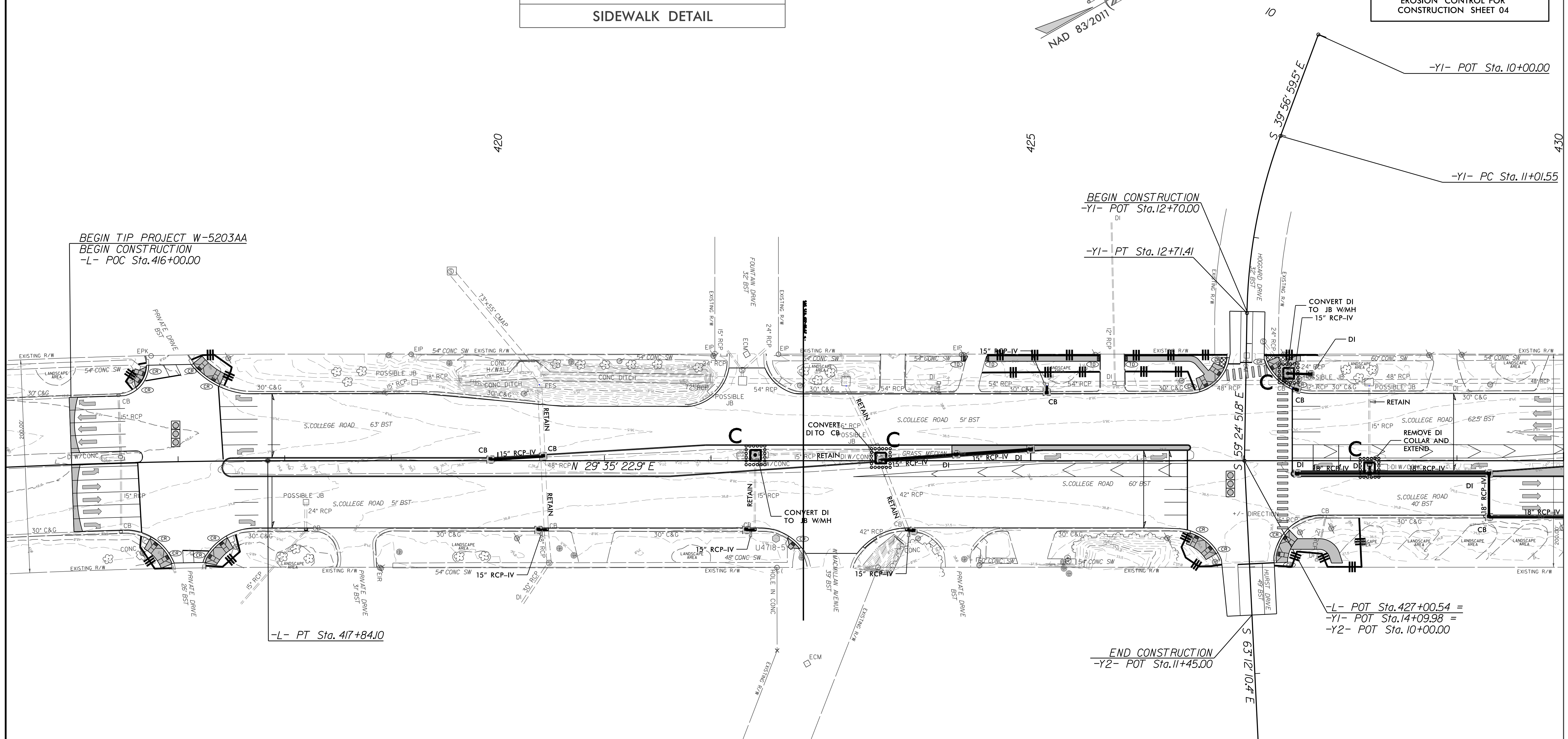
<i>SITE DESCRIPTION</i>	<i>STABILIZATION TIME</i>	<i>TIMEFRAME EXCEPTIONS</i>
PERIMETER DIKES, SWALES, DITCHES AND SLOPES	7 DAYS	NONE
HIGH QUALITY WATER (HQW) ZONES	7 DAYS	NONE
SLOPES STEEPER THAN 3:1	7 DAYS	IF SLOPES ARE 10' OR LESS IN LENGTH AND ARE NOT STEEPER THAN 2:1, 14 DAYS ARE ALLOWED.
SLOPES 3:1 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.

EROSION CONTROL PLAN CLEARING AND GRUBBING

PLANS PREPARED BY:		PROJECT REFERENCE NO.	SHEET NO.
PARSONS RALEIGH, NORTH CAROLINA, (919) 854-1345 NC LICENSE NO. F-0246 FOR NORTH CAROLINA DEPT. OF TRANSPORTATION		W-5203AA	EC-03/CONST.04
SUNGATE DESIGN GROUP, P.A. 915 JONES FRANKLIN ROAD RALEIGH, NORTH CAROLINA 27608 TEL (919) 859-2243 FAX (919) 856-6258 ENG. FIRM LICENSE NO. C-590		RW SHEET NO.	HYDRAULICS ENGINEER
		ROADWAY DESIGN ENGINEER	



CLEARING AND GRUBBING
EROSION CONTROL FOR
CONSTRUCTION SHEET 04



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

NOTE:
PERIMETER EROSION CONTROL MEASURES SHALL BE
INSTALLED DURING CLEARING AND GRUBBING PHASE.

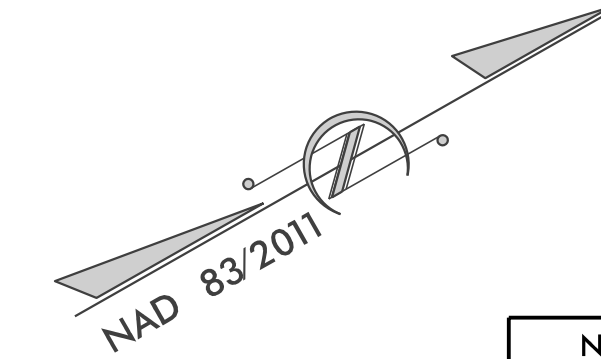
(TD) = TRUNCATED DOMES

NOTE:
SEE SHEET 6 FOR -L.LT.GP- PROFILE
SEE SHEET 7 FOR -L.RT.GP- PROFILE

**EROSION CONTROL PLAN
CLEARING AND GRUBBING**

PLANS PREPARED BY :		PROJECT REFERENCE NO.	SHEET NO.
PARSONS RALEIGH, NORTH CAROLINA, (919) 854-1345 NC LICENSE NO. F-0246 FOR NORTH CAROLINA DEPT. OF TRANSPORTATION		W-5230AA	EC-04/CONST.05
SUNGATE DESIGN GROUP, P.A. 915 JONES FRANKLIN ROAD RALEIGH, NORTH CAROLINA 27605 TEL (919) 859-2243 FAX (919) 859-6258 ENG FIRM LICENSE NO. C-590		RW SHEET NO.	HYDRAULICS ENGINEER
		ROADWAY DESIGN ENGINEER	

CLEARING AND GRUBBING
EROSION CONTROL FOR
CONSTRUCTION SHEET 05



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

NOTE:
PERIMETER EROSION CONTROL MEASURES SHALL BE
INSTALLED DURING CLEARING AND GRUBBING PHASE.

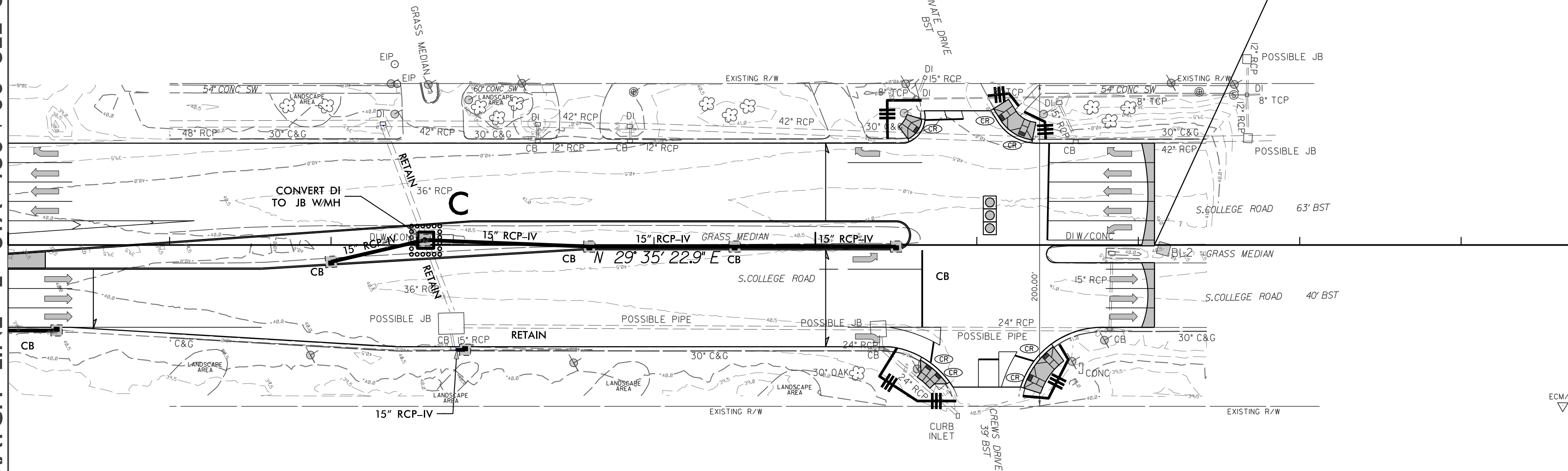
MATCH LINE -L- STA 430 + 00 SEE SHEET 4

430

435

440

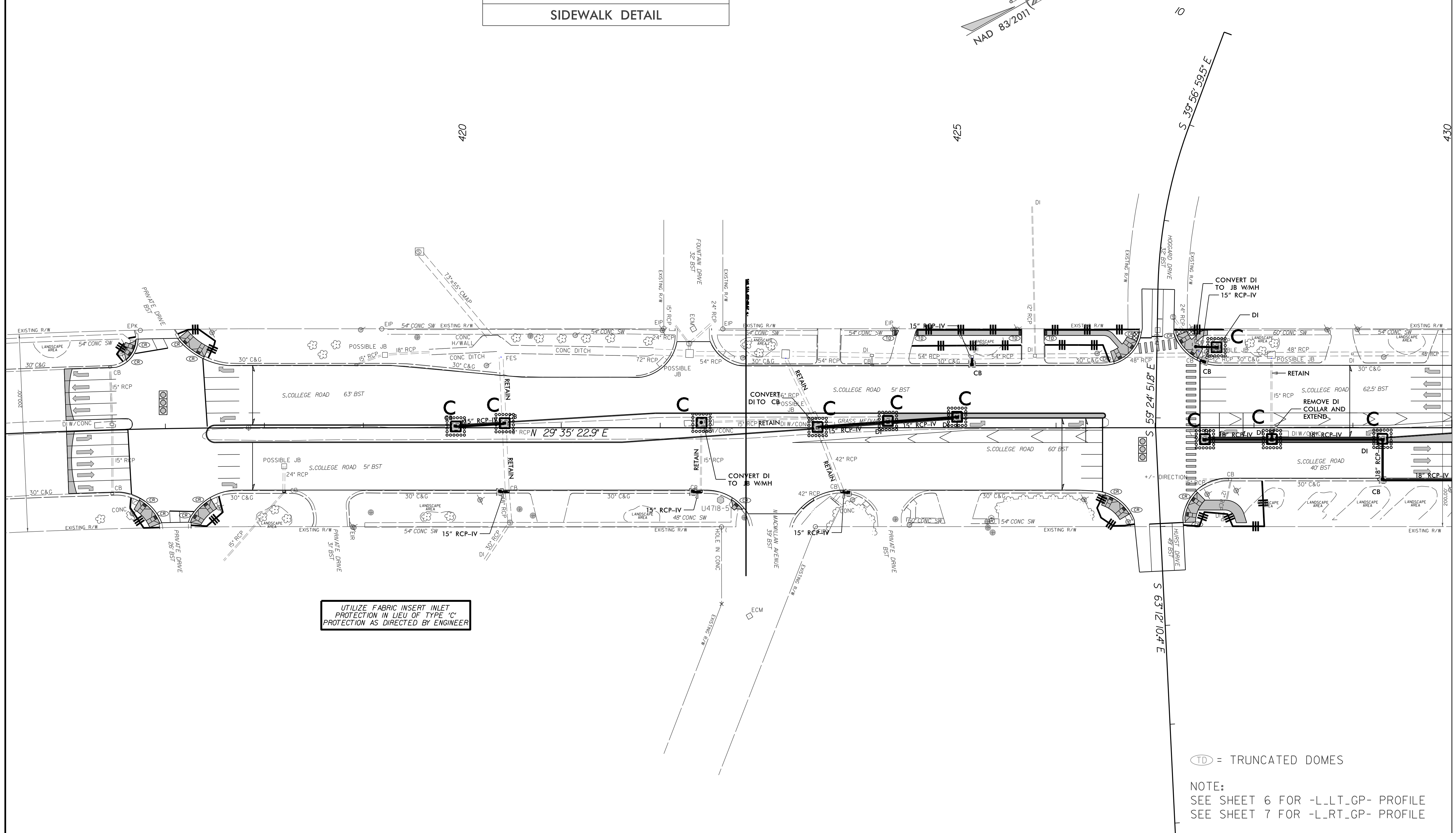
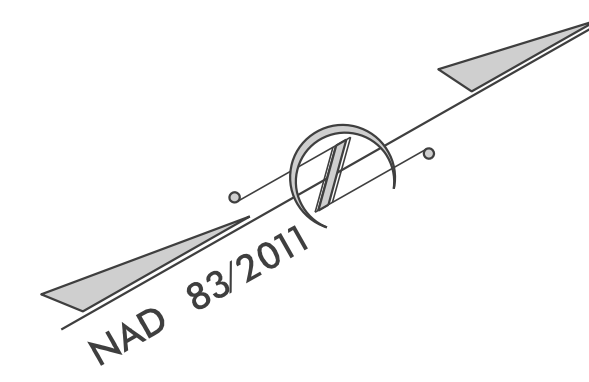
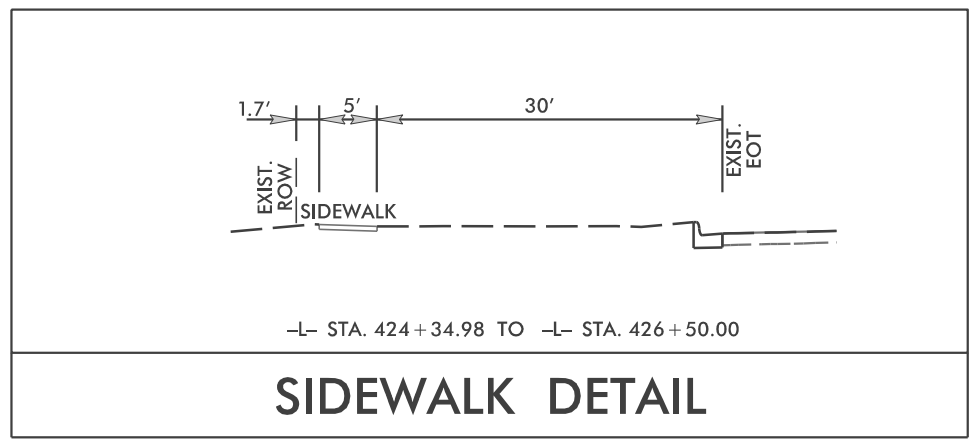
END TIP PROJECT W-5203AA
END CONSTRUCTION
-L- POT Sta. 437+10.00



NOTE:
SEE SHEET 6 FOR -L-LT_GP- PROFILE
SEE SHEET 7 FOR -L-RT_GP- PROFILE

EROSION CONTROL PLAN FINAL GRADING

PLANS PREPARED BY:	
PARSONS	
RALEIGH, NORTH CAROLINA, (919) 854-1345 NC LICENSE NO. F-0246 FOR NORTH CAROLINA DEPT. OF TRANSPORTATION	
SUNGATE DESIGN GROUP, P.A.	
915 JONES FRANKLIN ROAD RALEIGH, NORTH CAROLINA 27605 TEL: (919) 859-2243 FAX: (919) 859-6298 ENG. FIRM LICENSE NO. C-590	
PROJECT REFERENCE NO. W-5203AA	SHEET NO. EC-05/CONST.04
RW SHEET NO. ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER



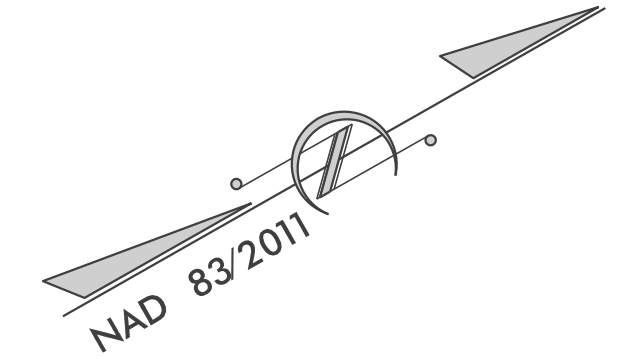
(TD) = TRUNCATED DOMES

NOTE:
SEE SHEET 6 FOR -L.LT.GP- PROFILE
SEE SHEET 7 FOR -L.RT.GP- PROFILE

MATCH LINE -L- STA 430 + 00 SEE SHEET 5

**EROSION CONTROL PLAN
FINAL GRADING**

PLANS PREPARED BY :		PROJECT REFERENCE NO.	SHEET NO.
PARSONS RALEIGH, NORTH CAROLINA, (919) 854-1345 NC LICENSE NO. F-0246 FOR NORTH CAROLINA DEPT. OF TRANSPORTATION		W-5230AA	EC-06/CONST.05
SUNGATE DESIGN GROUP, P.A. 915 JONES FRANKLIN ROAD RALEIGH, NORTH CAROLINA 27605 TEL (919) 859-2243 FAX (919) 859-6258 ENG FIRM LICENSE NO. C-5490		RW SHEET NO.	HYDRAULICS ENGINEER
		ROADWAY DESIGN ENGINEER	



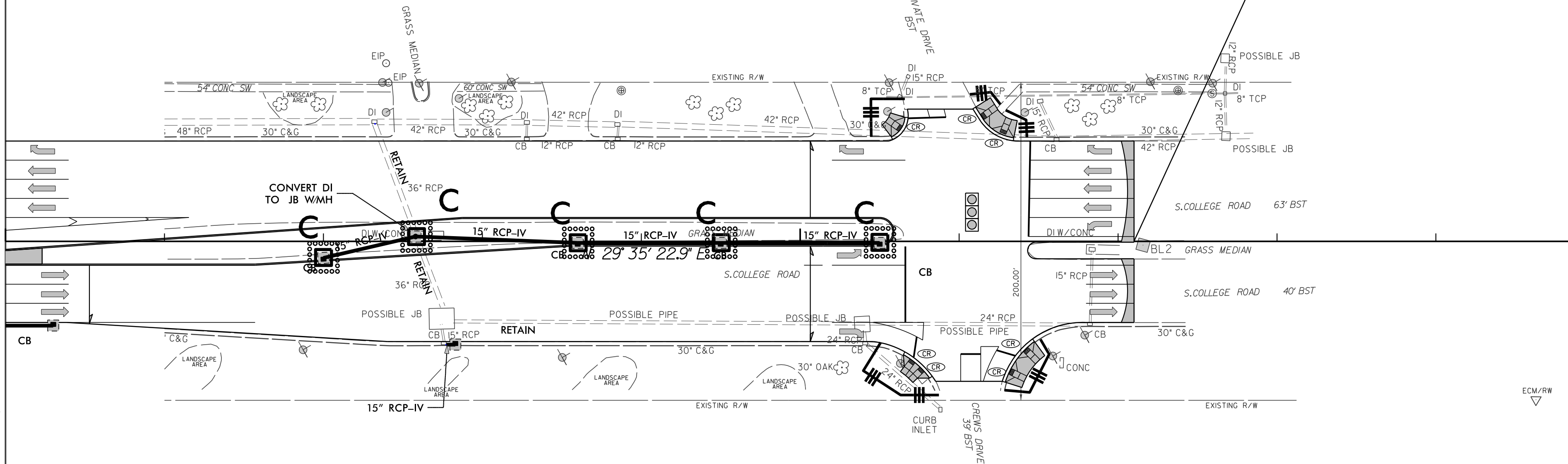
MATCH LINE -L- STA 430+00 SEE SHEET 4

430

435

440

END TIP PROJECT W-5203AA
END CONSTRUCTION
-L- POT Sta. 437+10.00



UTILIZE FABRIC INSERT INLET
PROTECTION IN LIEU OF TYPE 'C'
PROTECTION AS DIRECTED BY ENGINEER

NOTE:
SEE SHEET 6 FOR -L-LT_GP- PROFILE
SEE SHEET 7 FOR -L-RT_GP- PROFILE