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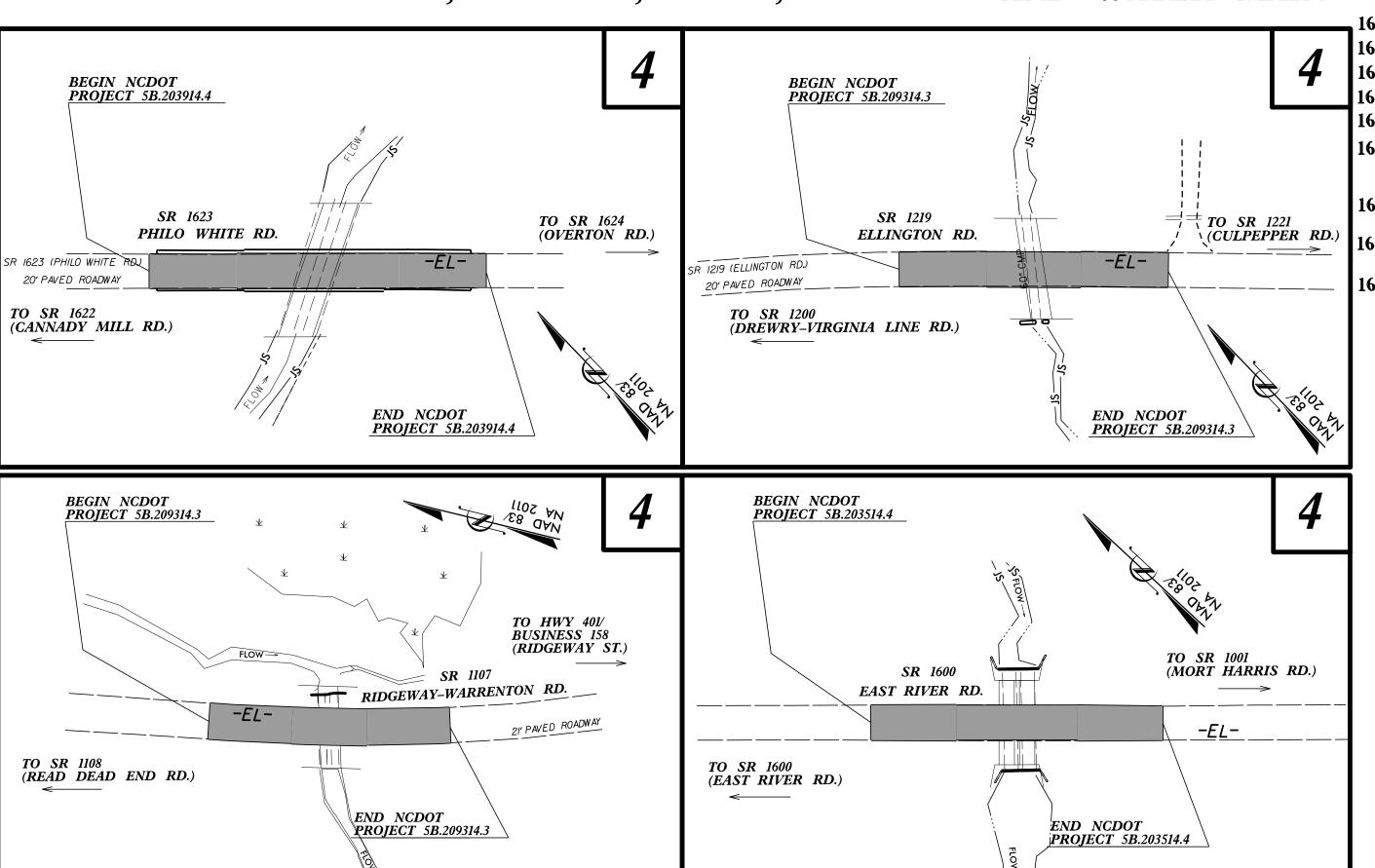
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STATE OF NORTH CAROLINA DIVISION OF HIGHWAYS

GRANVILLE, WARREN AND FRANKLIN COUNTIES PLAN FOR PROPOSED

HIGHWAY EROSION CONTROL

LOCATION: PIPE CROSSING ON SR 1623 (PHILO WHITE ROAD) LOCATION: PIPE CROSSING ON SR 1107 (RIDGEWAY-WARRENTON ROAD) LOCATION: PIPE CROSSING ON SR 1600 (EAST RIVER ROAD) TYPE OF WORK: GRADING, DRAINAGE, PAVING & STRUCTURE LOCATION: PIPE CROSSING ON SR 1219 (ELLINGTON ROAD) TYPE OF WORK: GRADING, DRAINAGE, PAVING, STRUCTURE AND WATER MAIN



STATE PROJECT REFERENCE NO. | N.C. | 5B.203914.4, 5B.209314.3, & 5B.203514.4 | EC-1

EROSION AND SEDIMENT CONTROL MEASURES

Description

Temporary Silt Fence Special Sediment Control Fence Temporary Berms and Slope Drains Silt Basin Type B. 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 Wattle / Coir Fiber Wattle with Polyacrylamide (PAM) Temporary Rock Sediment Dam Type-A... Temporary Rock Sediment Dam Type-B.... Rock Pipe Inlet Sediment Trap Type-A.... Rock Pipe Inlet Sediment Trap Type-B. Stilling Basin 1630.06 Special Stilling Basin. Rock Inlet Sediment Trap: Туре А 1632.02 Туре В. Туре С. Tiered Skimmer Basin. Infiltration Basin.

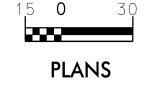
GRAPHIC SCALE

VICINITY MAP

OFF-SITE DETOUR → • • •

VICINITY MAP

OFF-SITE DETOUR → • • • •



THESE EROSION AND SEDIMENT CONTROL PLANS COMPLY WITH THE REGULATIONS SET FORTH BY THE NCG-010000 GENERAL CONSTRUCTION PERMIT EFFECTIVE AUGUST 1, 2016 AND ISSUED BY THE NORTH CAROLINA DEPARTMENT OF ENVIRONMENT AND NATURAL RESOURCES DIVISION OF WATER RESOURCES.

Warrenton

VICINITY MAP

VICINITY MAP

OFF-SITE DETOUR → • • •

OFF-SITE DETOUR → • • •

Prepared in the Office of:

WETHERILL ENGINEERING, INC.

1223 JONES FRANKLIN ROAD RALEIGH, NC 27606

Designed by:

HARMINDER SINGH

3519

LEVEL III CERTIFICATION NO.

DONALD PEARSON

Reviewed in the Office of:

ROADSIDE ENVIRONMENTAL FIELD OPERATIONS

DIVISION 4 AND 5 1425 Rock Quarry Rd.

Suite 106 Raleigh, NC 27610

2018 STANDARD SPECIFICATIONS

Reviewed by:

Roadway Standard Drawings

1630.04 Stilling Basin

1630.05 Temporary Diversion

1630.06 Special Stilling Basin

1631.01 Matting Installation

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

604.01	Railroad Erosion Control Detail	1632.01	Rock Inlet Sediment Trap Type A
605.01	Temporary Silt Fence	1632.02	Rock Inlet Sediment Trap Type B
606.01	Special Sediment Control Fence	1632.03	Rock Inlet Sediment Trap Type C
607.01	Gravel Construction Entrance	1633.01	Temporary Rock Silt Check Type
622.01	Temporary Berms and Slope Drains	1633.02	Temporary Rock Silt Check Type
630.01	Riser Basin	1634.01	Temporary Rock Sediment Dam
530.02	Silt Basin Type B		Temporary Rock Sediment Dam

1632.03 Rock Inlet Sediment Trap Type C 1633.01 Temporary Rock Silt Check Type A 1633.02 Temporary Rock Silt Check Type B 1634.01 Temporary Rock Sediment Dam Type A 1634.02 Temporary Rock Sediment Dam Type B 1630.03 Temporary Silt Ditch

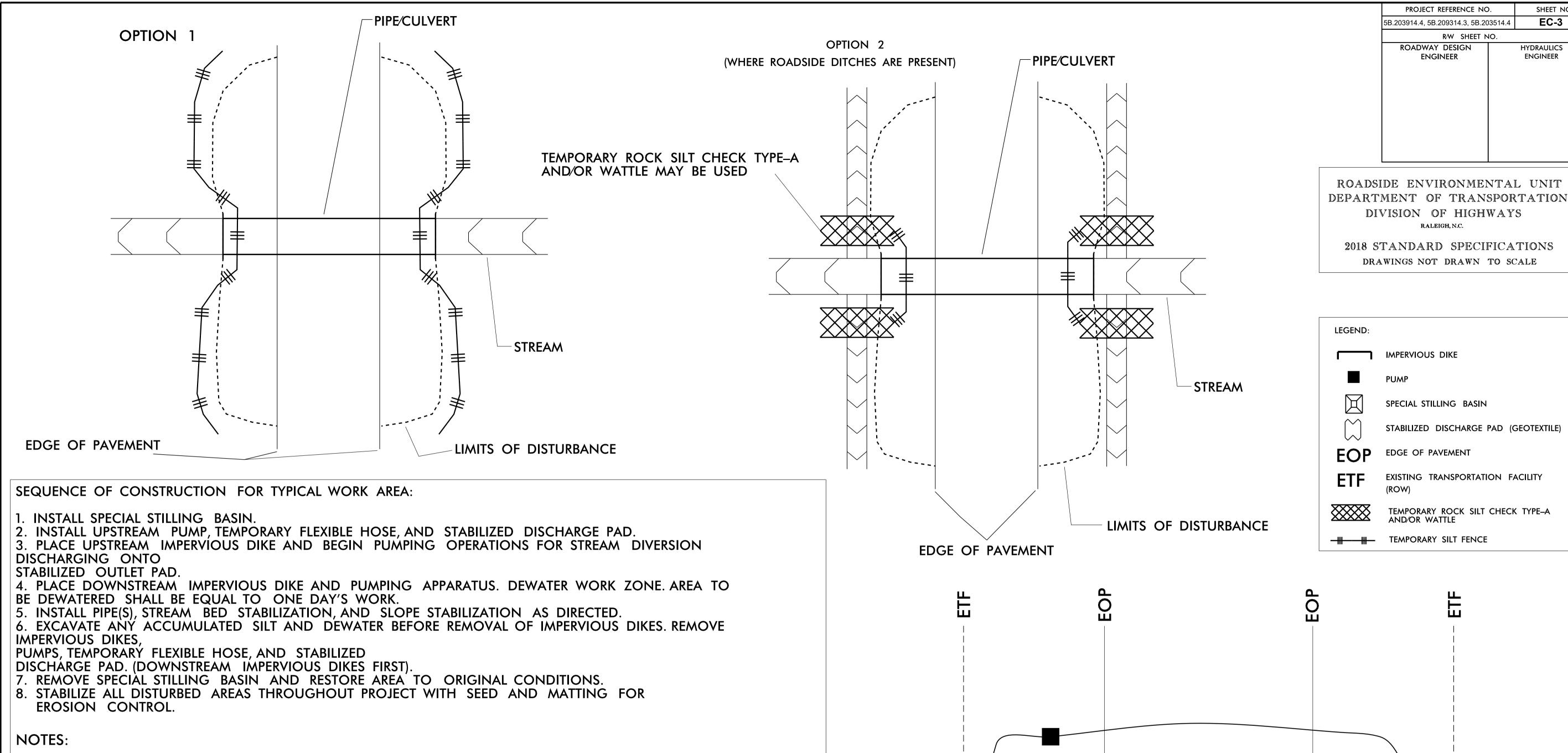
1635.01 Rock Pipe Inlet Sediment Trap Type A 1635.02 Rock Pipe Inlet Sediment Trap Type B 1640.01 Coir Fiber Baffle 1645.01 Temporary Stream Crossing

PROJECT REFERENCE NO. SHEET NO. 5B.203914.4 EC-2 5B.209314.3 5B.203514.4

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	I4 DAYS	7 DAYS FOR SLOPES GREATER THAN 50'IN LENGTH.
ALL OTHER AREAS WITH SLOPES FLATTER THAN 4:1	I4 DAYS	NONE, EXCEPT FOR PERIMETERS AND HQW ZONES.



INSTALL EROSION CONTROL MEASURES PRIOR TO ANY EARTH DISTURBING ACTIVITIES. INSTALL SPECIAL SEDIMENT CONTROL FENCE BREAKS OR TEMPORARY ROCK SILT CHECKS. TYPE-A AT LOW POINTS IN SILT FENCE. FOR OPTION 1 INSTALL SILT FENCE SUCH THAT ALL EARTH DISTURBANCE IS CONTAINED. FOR CULVERT CONSTRUCTION SEQUENCING SEE THE PUMP AROUND DETAIL OR CONSULT "BEST MANAGEMENT PRACTICES FOR CONSTRUCTION AND MAINTENANCE ACTIVITIES". ALL EXCAVATION IN JURISDICTIONAL STREAMS SHALL BE PERFORMED IN ONLY DRY OR ISOLATED SECTIONS OF THE WORK ZONE. IMPERVIOUS DIKES ARE TO BE USED TO ISOLATE WORK FROM STREAM FLOW WHEN NECESSARY. MAINTENANCE OF STREAM FLOW OPERATIONS SHALL BE INCIDENTAL TO THE WORK. THIS INCLUDES THE DISCHARGE PAD, DIVERSION PIPES, PUMPS, AND HOSES. PUMPS AND HOSES SHALL BE OF SUFFICIENT SIZE TO MAINTAIN STREAM FLOW AND TO DEWATER THE WORK AREA. INSTALL SPECIAL STILLING BASIN IN VEGETATED AREA WITHIN RIGHT OF WAY. DISCHARGE SHOULD BE DIRECTED THROUGH VEGETATED BUFFER AWAY FROM WORK SITE. INSTALL SILT FENCE AS DIRECTED TO CONTAIN DISTURBED AREAS AND/OR EXCAVATED STOCKPILES. BORROW MATERIAL FROM OR DISPOSAL OF MATERIAL TO ANY UNPERMITTED SITE WILL REQUIRE A RECLAMATION PLAN. INSTALL PIPE(S) IN JURISDICTIONAL AREAS IN ACCORDANCE WITH NCDOT BEST MANAGEMENT PRACTICES FOR CONSTRUCTION AND MAINTENANCE ACTIVITIES MANUAL.

PIPE(S) --- FLOW --FLOW \longrightarrow

SHEET NO.

EC-3

HYDRAULICS ENGINEER

PUMP-AROUND OPERATION FOR PIPE REPLACEMENT IN JURISDICTIONAL STREAMS EROSION CONTROL DETAIL

