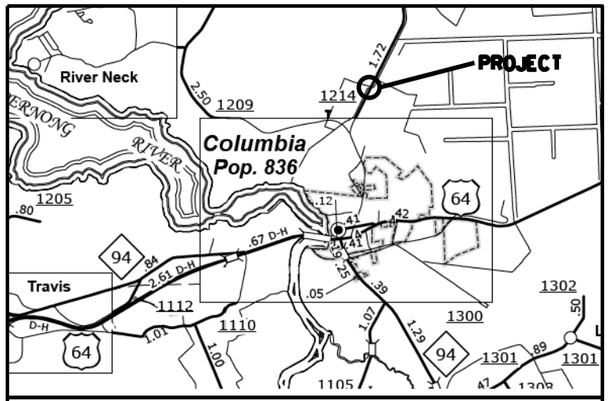
09/08/99

PROJECT: 17BP.1.C.1

CONTRACT: DA00289



VICINITY MAP

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

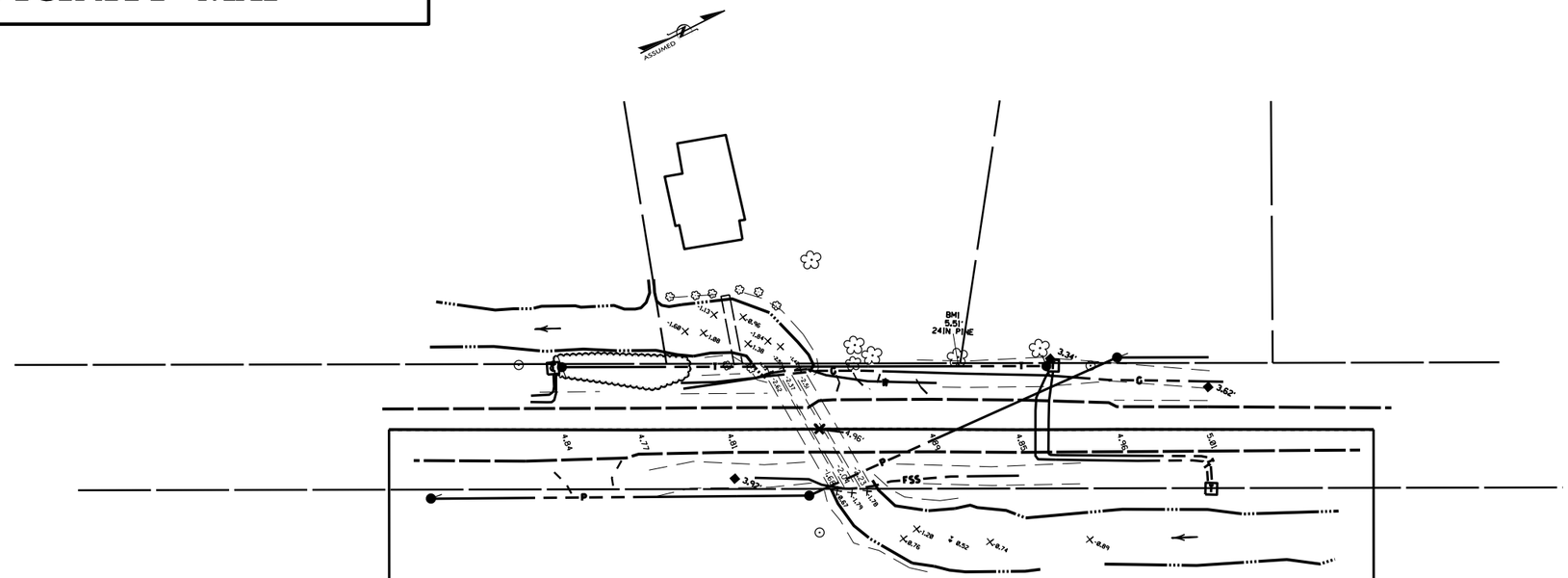
TYRRELL COUNTY

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	17BP.1.C.1	1	

STATE PROJ. NO.	F. A. PROJ. NO.	DESCRIPTION

LOCATION: SR 1214 NEW RD – 0.5 MILES NORTH OF SR 1209

TYPE OF WORK: CULVERT REPLACEMENT



BEGIN CONST. STATE PROJECT WBS# 17BP.1.C.1
–L– STA. 10+00.00

END CONST. STATE PROJECT WBS# 17BP.1.C.1
–L– STA. 14+72.58

GRAPHIC SCALES

30 15 0 30 60
PLANS

Prepared In the Office of:
DIVISION OF HIGHWAYS
DIVISION ONE OFFICE
113 Airport Dr., Suite 100, Edenton NC, 27932

2012 STANDARD SPECIFICATIONS

D. HEATH STALLINGS
DRAWN BY

Nothing Compares

09-DEC-2015 10:10
C:\JOHN ABEL DIV. BRIDGE\Tyrrell Co\SR 1214 New Rd\17BP.1.C.1_Rdy_tsh.dgn
dhstallings AT DICA0265782

04/06/15

PROJECT REFERENCE NO.	SHEET NO.
17BPJCJ	1-A

STATE OF NORTH CAROLINA, DIVISION OF HIGHWAYS

CONVENTIONAL PLAN SHEET SYMBOLS

Note: Not to Scale **S.U.E. = Subsurface Utility Engineering*

BOUNDARIES AND PROPERTY:

- State Line
- County Line
- Township Line
- City Line
- Reservation Line
- Property Line
- Existing Iron Pin — EIP
- Property Corner
- Property Monument — ECM
- Parcel/Sequence Number — 123
- Existing Fence Line
- Proposed Woven Wire Fence
- Proposed Chain Link Fence
- Proposed Barbed Wire Fence
- Existing Wetland Boundary — WLB
- Proposed Wetland Boundary — WLB
- Existing Endangered Animal Boundary — EAB
- Existing Endangered Plant Boundary — EPB
- Existing Historic Property Boundary — HPB
- Known Contamination Area: Soil
- Potential Contamination Area: Soil
- Known Contamination Area: Water
- Potential Contamination Area: Water
- Contaminated Site: Known or Potential

BUILDINGS AND OTHER CULTURE:

- Gas Pump Vent or U/G Tank Cap
- Sign — S
- Well — W
- Small Mine
- Foundation
- Area Outline
- Cemetery
- Building
- School
- Church
- Dam

HYDROLOGY:

- Stream or Body of Water
- Hydro, Pool or Reservoir
- Jurisdictional Stream — JS
- Buffer Zone 1 — BZ 1
- Buffer Zone 2 — BZ 2
- Flow Arrow
- Disappearing Stream
- Spring
- Wetland
- Proposed Lateral, Tail, Head Ditch — FLOW
- False Sump

RAILROADS:

- Standard Gauge — CSX TRANSPORTATION
- RR Signal Milepost — MILEPOST 35
- Switch — SWITCH
- RR Abandoned
- RR Dismantled

RIGHT OF WAY:

- Baseline Control Point
- Existing Right of Way Marker
- Existing Right of Way Line
- Proposed Right of Way Line — RW
- Proposed Right of Way Line with Iron Pin and Cap Marker — RW
- Proposed Right of Way Line with Concrete or Granite R/W Marker — RW
- Proposed Control of Access Line with Concrete C/A Marker — CA
- Existing Control of Access — CA
- Proposed Control of Access — CA
- Existing Easement Line — E
- Proposed Temporary Construction Easement — E
- Proposed Temporary Drainage Easement — TDE
- Proposed Permanent Drainage Easement — PDE
- Proposed Permanent Drainage / Utility Easement — DUE
- Proposed Permanent Utility Easement — PUE
- Proposed Temporary Utility Easement — TUE
- Proposed Aerial Utility Easement — AUE
- Proposed Permanent Easement with Iron Pin and Cap Marker

ROADS AND RELATED FEATURES:

- Existing Edge of Pavement
- Existing Curb
- Proposed Slope Stakes Cut — C
- Proposed Slope Stakes Fill — F
- Proposed Curb Ramp — CR
- Existing Metal Guardrail
- Proposed Guardrail
- Existing Cable Guiderail
- Proposed Cable Guiderail
- Equality Symbol
- Pavement Removal

VEGETATION:

- Single Tree
- Single Shrub
- Hedge
- Woods Line
- Orchard
- Vineyard — Vineyard

EXISTING STRUCTURES:

MAJOR:

- Bridge, Tunnel or Box Culvert — CONC
- Bridge Wing Wall, Head Wall and End Wall — CONC WW

MINOR:

- Head and End Wall — CONC HW
- Pipe Culvert
- Footbridge
- Drainage Box: Catch Basin, DI or JB — CB
- Paved Ditch Gutter
- Storm Sewer Manhole — S
- Storm Sewer — S

UTILITIES:

POWER:

- Existing Power Pole
- Proposed Power Pole
- Existing Joint Use Pole
- Proposed Joint Use Pole
- Power Manhole — P
- Power Line Tower
- Power Transformer
- U/G Power Cable Hand Hole
- H-Frame Pole
- U/G Power Line LOS B (S.U.E.*) — P
- U/G Power Line LOS C (S.U.E.*) — P
- U/G Power Line LOS D (S.U.E.*) — P

TELEPHONE:

- Existing Telephone Pole
- Proposed Telephone Pole
- Telephone Manhole — T
- Telephone Pedestal — T
- Telephone Cell Tower
- U/G Telephone Cable Hand Hole — HH
- U/G Telephone Cable LOS B (S.U.E.*) — T
- U/G Telephone Cable LOS C (S.U.E.*) — T
- U/G Telephone Cable LOS D (S.U.E.*) — T
- U/G Telephone Conduit LOS B (S.U.E.*) — TC
- U/G Telephone Conduit LOS C (S.U.E.*) — TC
- U/G Telephone Conduit LOS D (S.U.E.*) — TC
- U/G Fiber Optics Cable LOS B (S.U.E.*) — T FO
- U/G Fiber Optics Cable LOS C (S.U.E.*) — T FO
- U/G Fiber Optics Cable LOS D (S.U.E.*) — T FO

WATER:

- Water Manhole — W
- Water Meter
- Water Valve
- Water Hydrant
- U/G Water Line LOS B (S.U.E*)
- U/G Water Line LOS C (S.U.E*)
- U/G Water Line LOS D (S.U.E*)
- Above Ground Water Line — A/G Water

TV:

- TV Pedestal — C
- TV Tower
- U/G TV Cable Hand Hole — HH
- U/G TV Cable LOS B (S.U.E.*) — TV
- U/G TV Cable LOS C (S.U.E.*) — TV
- U/G TV Cable LOS D (S.U.E.*) — TV
- U/G Fiber Optic Cable LOS B (S.U.E.*) — TV FO
- U/G Fiber Optic Cable LOS C (S.U.E.*) — TV FO
- U/G Fiber Optic Cable LOS D (S.U.E.*) — TV FO

GAS:

- Gas Valve
- Gas Meter
- U/G Gas Line LOS B (S.U.E.*) — G
- U/G Gas Line LOS C (S.U.E.*) — G
- U/G Gas Line LOS D (S.U.E.*) — G
- Above Ground Gas Line — A/G Gas

SANITARY SEWER:

- Sanitary Sewer Manhole
- Sanitary Sewer Cleanout
- U/G Sanitary Sewer Line — SS
- Above Ground Sanitary Sewer — A/G Sanitary Sewer
- SS Forced Main Line LOS B (S.U.E.*) — FSS
- SS Forced Main Line LOS C (S.U.E.*) — FSS
- SS Forced Main Line LOS D (S.U.E.*) — FSS

MISCELLANEOUS:

- Utility Pole
- Utility Pole with Base
- Utility Located Object
- Utility Traffic Signal Box — S
- Utility Unknown U/G Line LOS B (S.U.E.*) — ?UTL
- U/G Tank; Water, Gas, Oil
- Underground Storage Tank, Approx. Loc. — UST
- A/G Tank; Water, Gas, Oil
- Geoenvironmental Boring
- U/G Test Hole LOS A (S.U.E.*)
- Abandoned According to Utility Records — AATUR
- End of Information — E.O.I.

PROJECT NO.	SHEET NO.	TOTAL NO.
17BP.1.C.1	2	

SUMMARY OF QUANTITIES

PROJECT NO	COUNTY	MAP NO	ROUTE	DESCRIPTION	TYP NO	LENGTH MI	WIDTH FT	MOBILIZATION LS	GRADING LS	BASE COURSE, B25.0B TONS	SURFACE COURSE, SF9.5A TONS	ASPHALT BINDER FOR PLANT MIX TONS	RIP RAP, CLASS B TON	GEOTEXTILE FOR DRAINAGE SY	TEMPORARY TRAFFIC CONTROL
17BP.1.C.1	Tyrrell	1	SR 1214 NEW RD	REPLACE PIPE CULVERT		0.09	25	1	1	50	40	5	20	100	1
GRAND TOTAL						**0.09**		**1**	**1**	**50**	**40**	**5**	**20**	**100**	**1**

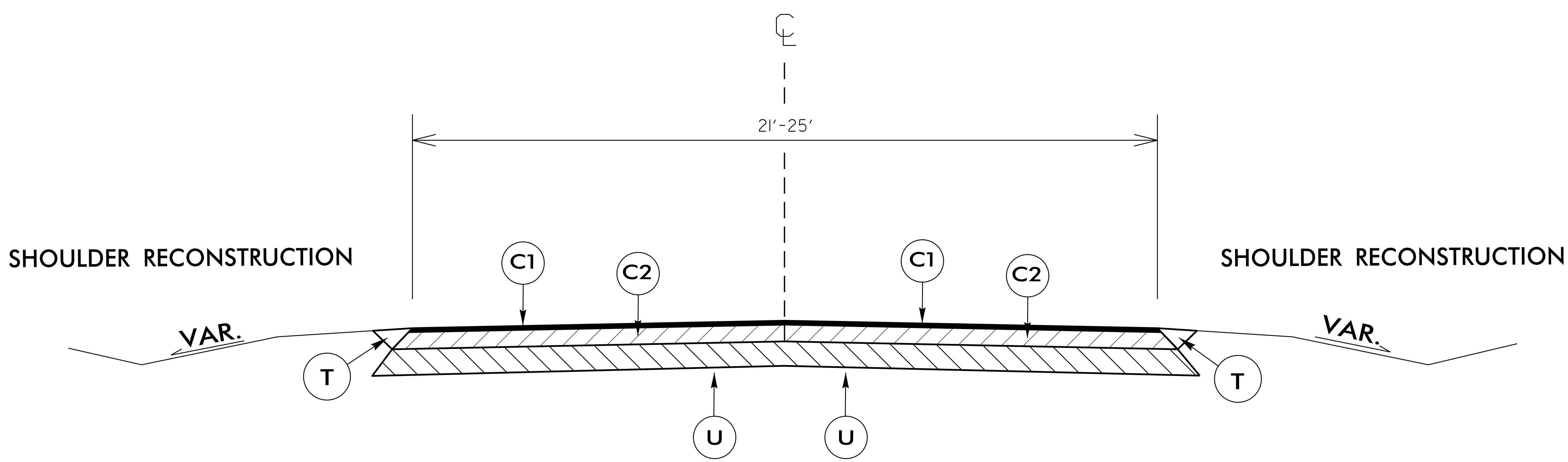
PROJECT NO	COUNTY	MAP NO	ROUTE	DESCRIPTION	TYP NO	LENGTH MI	WIDTH FT	TEMPORARY SILT FENCE LF	SAFETY FENCE LF	COIR FIBER WATTLE LF	SEEDING & MULCHING ACR	RESPONSE FOR EROSION CONTROL EA	GENERIC EROSION CONTROL ITEM (DEWATERING) LS	GENERIC CULVERT ITEM (2@87"X63"X54' CAP) EA	GENERIC CULVERT ITEM (ADDITIONAL CULVERT UNDERCUT) CY
17BP.1.C.1	Tyrrell	1	SR 1214 NEW RD	REPLACE PIPE CULVERT		0.09	25	250	200	100	0.10	5	1	1	75
GRAND TOTAL						**0.09**		**250**	**200**	**100**	**0.10**	**5**	**1**	**1**	**75**

PROJECT REFERENCE NO.	SHEET NO.
17BP.1.C.1	3

PAVEMENT SCHEDULE

C1	PROP. APPROX. 1½" ASPHALT CONCRETE SURFACE COURSE, TYPE SF9.5A, AT AN AVERAGE RATE OF 165 LBS. PER SQ. YD.
C2	PROP. APPROX. 5½" ASPHALT CONCRETE BASE COURSE, TYPE B25.0B, AT AN AVERAGE RATE OF 627 LBS. PER SQ. YD.
U	FILL MATERIAL (#5 OR #57 STONE)
T	EARTH MATERIAL.

NOTE: PAVEMENT EDGE SLOPES ARE 1:1 UNLESS SHOWN OTHERWISE.



TYPICAL SECTION NO. 1

USE IN PIPE TRENCH ONLY

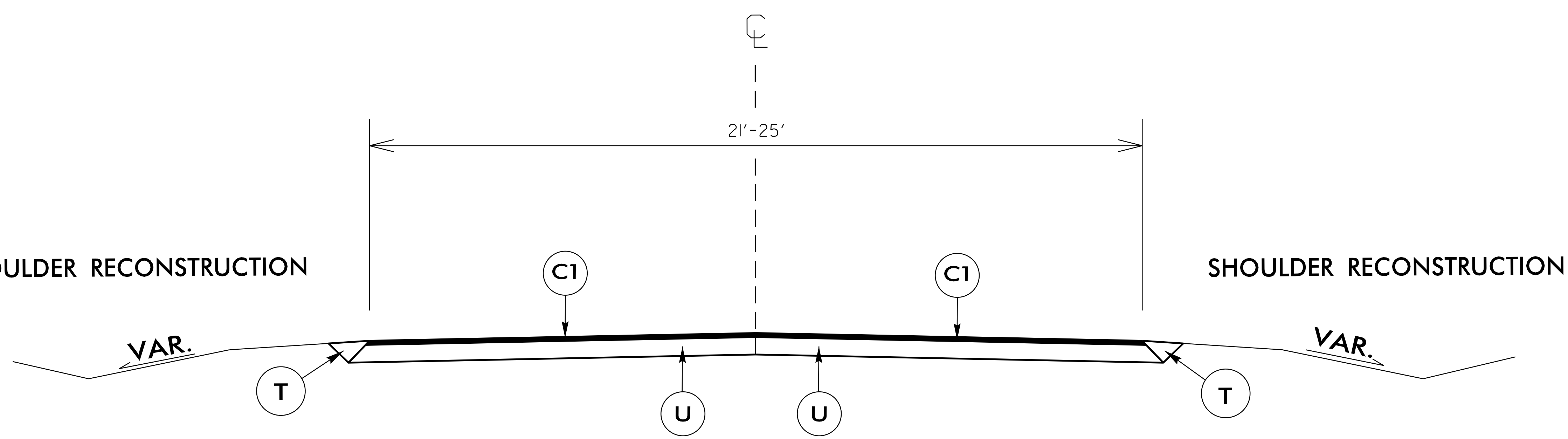
NTS

PROJECT REFERENCE NO.	SHEET NO.
17BP.1.C.1	3-A

PAVEMENT SCHEDULE

C1	PROP. APPROX. 1½" ASPHALT CONCRETE SURFACE COURSE, TYPE SF9.5A, AT AN AVERAGE RATE OF 165 LBS. PER SQ. YD.
U	EXISTING PAVEMENT
T	EARTH MATERIAL.

NOTE: PAVEMENT EDGE SLOPES ARE 1:1 UNLESS SHOWN OTHERWISE.



TYPICAL SECTION NO. 2

USE IN NON TRENCH AREAS

NTS

PROJECT REFERENCE NO.	SHEET NO.
17BP.1.C.1	4

5/14/99

ASSUMED

1

LOLA S BRICKHOUSE
402 NEW RD
COLUMBIA NC 27925
0/0

2

JARVIS A HASSELL
535 NEW RD
COLUMBIA NC 27925
224/201

3

RONALD L JARVIS
P.O. BOX 39
COLUMBIA NC 27925
224/201

PROPOSED
2@87"x63"x54' CAP

BM1
5.51'
24IN PINE

END NEW PAVEMENT
–L– STA. 12+56.59 ±

END STATE PROJECT WBS# 17BP.1.C.1
–L– STA. 14+38.47

EXISTING
3@60"X60' CMP

← TO COLUMBIA

SR 1214 (NEW RD.)

-1.13
-1.60
-1.08
-0.96
-1.84
-1.38
2.57
-1.43
-1.15
3.34'
3.62'
4.84
4.77
4.81
4.96'
4.89
4.85
4.96
5.01
3.92'
-0.67
-1.79
-1.78
-1.20
-0.76
0.52
-0.74
-0.89

BEGIN STATE PROJECT WBS# 17BP.1.C.1
–L– STA. 10+00.00

BEGIN NEW PAVEMENT
–L– STA. 11+56.59 ±

1

LOLA S BRICKHOUSE
402 NEW RD
COLUMBIA NC 27925
0/0

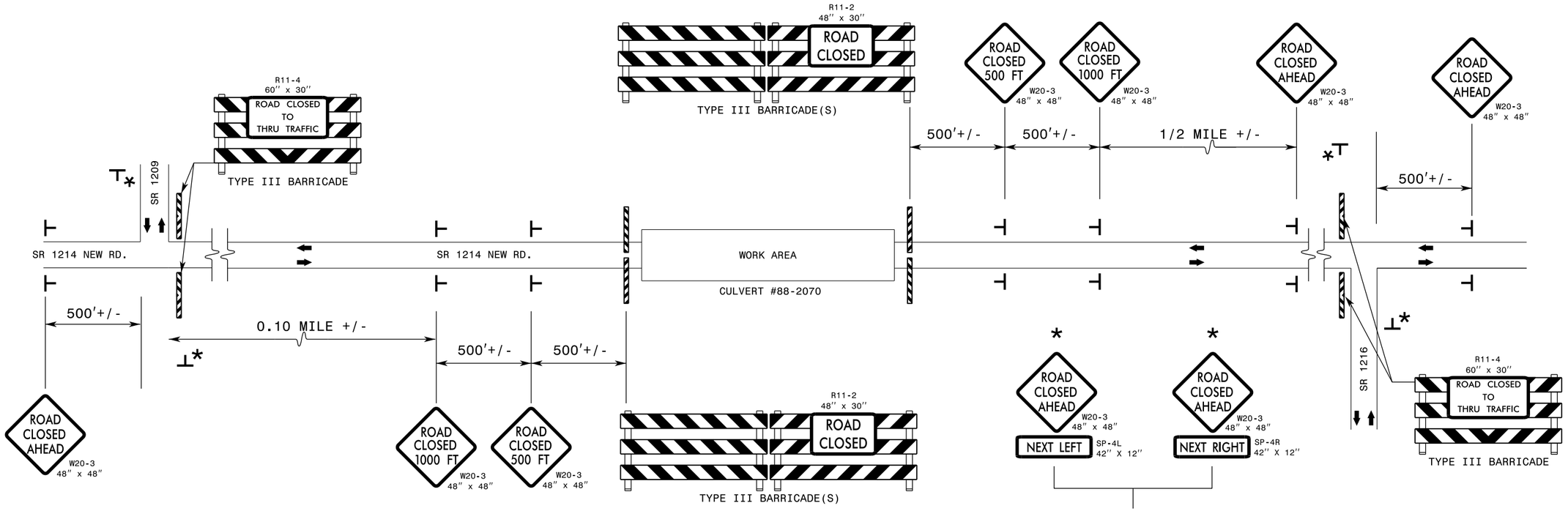
SCALE 1" = 30'
HALF SIZE

$$$$SYSTIME$$$$
$$$$DGN$$$$
$$$$FILENAME$$$$

WBS # 17BP.1.C.1

CONTRACT #: DA00289

TRAFFIC MANAGEMENT FOR TEMPORARY ROAD CLOSURE



LEGEND

- DIRECTION OF TRAFFIC FLOW
- STATIONARY SIGN
- BARRICADE (TYPE III)

ROADWAY STANDARD DRAWINGS

THE FOLLOWING ROADWAY STANDARDS AS SHOWN IN "ROADWAY STANDARD DRAWINGS" - PROJECT SERVICES UNIT - N.C. DEPARTMENT OF TRANSPORTATION - RALEIGH N.C., ARE CONSIDERED A PART OF THE PLANS:

STD. NO.	TITLE
1101.03	TEMPORARY ROAD CLOSURES
1101.04	TEMPORARY SHOULDER CLOSURES
1110.01	STATIONARY WORK ZONE SIGNS
1110.02	PORTABLE WORK ZONE SIGNS
1135.01	CONES
1145.01	BARRICADES
904.10	ORIENTATION OF GROUND MOUNTED SIGNS

GENERAL NOTES

1 - INSTALLATION OF TEMPORARY ROUTE MARKERS, DESTINATION SIGNS AND ANY NECESSARY MODIFICATIONS TO EXISTING OR PROPOSED REGULATORY OR WARNING SIGNS WILL BE MADE BY OTHERS (STATE OR CITY FORCES) UNLESS OTHERWISE DESIGNATED IN PLANS. PROVIDE A MINIMUM 21 CALENDAR DAY NOTICE TO STATE FORCES BEFORE A ROADWAY IS CLOSED TO TRAFFIC SUCH THAT NECESSARY PROVISIONS CAN BE MADE TO INFORM LOCAL EMERGENCY AND LAW ENFORCEMENT PERSONNEL, SCHOOLS OR ANY OTHER PARTIES AFFECTED BY THE ROAD CLOSURE.

2 - INSTALL SIGNS BEFORE THE BARRICADES WHEN CLOSING THE ROADWAY TO TRAFFIC. REMOVE BARRICADES BEFORE SIGNS WHEN OPENING THE ROADWAY TO TRAFFIC. INSTALL/REMOVE SIGNS AND BARRICADES WITHIN THE SAME CALENDAR DAY.

3 - POSITION WING BARRICADES ON THE SHOULDERS AND SLOPE THE STRIPES DOWNWARD IN THE DIRECTION TOWARD WHICH TRAFFIC MUST TURN IN DETOURING.

4 - USE ADDITIONAL TYPE III BARRICADES IN STAGGERED LOCATIONS SUPPLEMENTED WITH SIGN R11-4 "ROAD CLOSED TO THRU TRAFFIC" IN THE EVENT THAT TRAFFIC MUST BE MAINTAINED BEYOND THE DETOUR POINT.

5 - SEE STANDARD SPECIFICATION 1089-1 FOR WORK ZONE SIGNS.

6 - SEE STANDARD SPECIFICATION 1089-2 FOR WORK ZONE SIGN SUPPORTS.

*7 - ALL DETOUR SIGNS WILL BE FURNISHED AND INSTALLED BY STATE FORCES.

8 - CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ALL ADVANCED WARNING SIGNS AND BARRICADES INDICATED IN THE ABOVE DIAGRAM. STATE FORCES WILL INSTALL AND FURNISH ALL OTHERS.

DRAWN BY: DHS DATE: 12/14/15
CHECKED BY: _____ DATE: _____

PROJECT: 17BP.1.C.1
TYRRELL COUNTY
STATION: -L-
REPLACEMENT OF CULVERT NO. 88-2070

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH

TRAFFIC MANAGEMENT PLAN

REVISIONS						SHEET NO.
NO.	BY:	DATE:	NO.	BY:	DATE:	
1			1			TOTAL SHEETS
2			2			

WBS: 17BP.1.C.1

CONTRACT: DA00289

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

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	17BP.1.C.1	EC-1	

STATE PROJ. NO.	F. A. PROJ. NO.	DESCRIPTION

Pipe Installation Schedule

1) Install erosion control devices per plans.

2) Remove material and existing pipe while limiting, as much as possible, material and sediment from entering the stream and/or escaping from the project.

3) Prepare pipe foundation while taking care to limit material and sediment from entering the stream and/or escaping from the project. Bury the pipe in accordance with the permit. If needed, bedding material will be clean stone (especially in Trout and HQW waters).

4) Place new pipe and compact fill.

5) Install slope protection on outlet ends of pipe according to permit drawing. Also complete installation of erosion control measures and perform maintenance as needed on existing measures.

6) Establish permanent vegetaion as soon as possible.

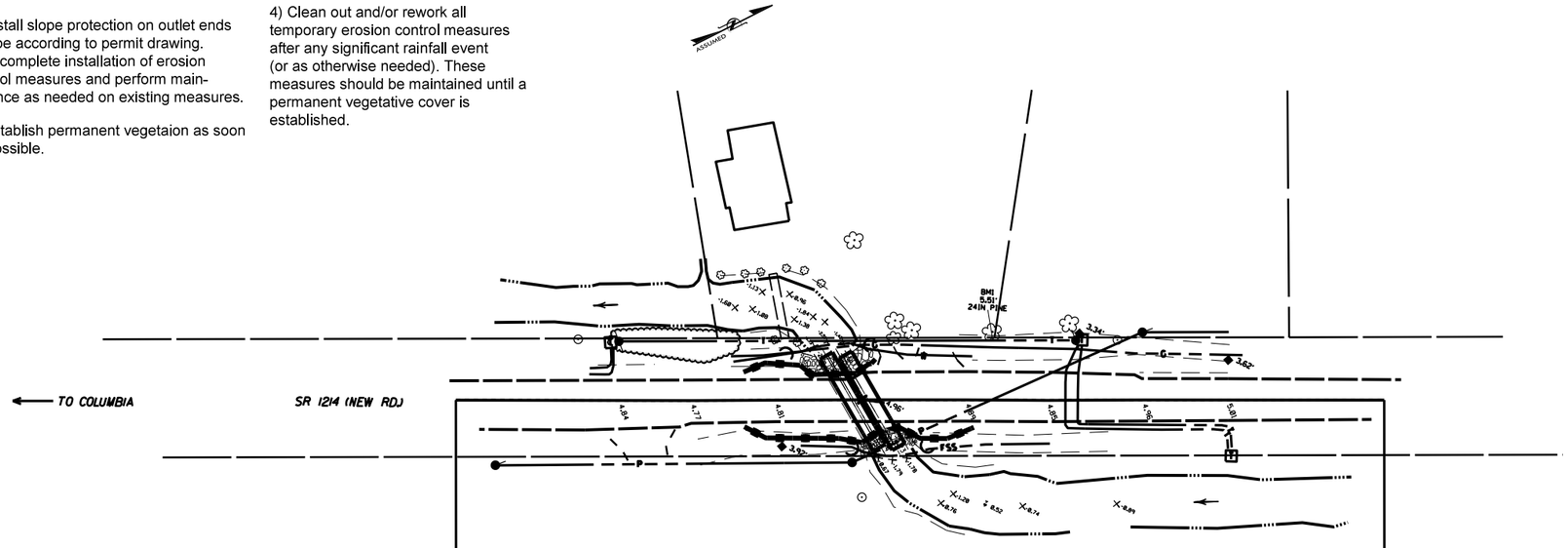
Erosion Control Schedule

1) Install erosion control measures according to plans at all outlets and at other discharge points after clearing but before grubbing.

2) Begin grading of roadway ditches. Place erosion control measures along roadway ditches as grading progresses and conditions allow.

3) Seed and mulch all disturbed areas as soon as any phase of grading is completed. Exposed areas can not lay idle for more than 21 calendar days without being provided adequate groundcover..

4) Clean out and/or rework all temporary erosion control measures after any significant rainfall event (or as otherwise needed). These measures should be maintained until a permanent vegetative cover is established.



BEGIN CONST. STATE PROJECT WBS# 17BP.1.C.1
–L– STA. 10+00.00

END CONST. STATE PROJECT WBS# 17BP.1.C.1
–L– STA. 14+72.58

EROSION AND SEDIMENT CONTROL MEASURES

Std. #	Description	Symbol
1630.03	Temporary Silt Ditch	TSD
1630.05	Temporary Diversion	TD
1605.01	Temporary Silt Fence	
1606.01	Special Sediment Control Fence	
1622.01	Temporary Berms and Slope Drains	
1630.02	Silt Basin Type B	
1633.01	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	ST / CFW
	Wattle / Coir Fiber Wattle with Polyacrylamide (PAM)	
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	
1630.06	Special Stilling Basin	
	Rock Inlet Sediment Trap:	
1632.01	Type A	A
1632.02	Type B	B
1632.03	Type C	C
	Skimmer Basin	
	Tiered Skimmer Basin	
	Infiltration Basin	

THIS PROJECT CONTAINS EROSION CONTROL PLANS FOR CULVERT REPLACEMENT PHASE OF CONSTRUCTION.

GRAPHIC SCALE

0
PLANS
0
PROFILE (HORIZONTAL)
0
PROFILE (VERTICAL)

LEVEL III–A: DESIGNER OF EROSION AND SEDIMENT CONTROL PLANS

D. Heath Stallings

CERTIFICATION NUMBER: 290

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

Prepared In the Office of:

ROADSIDE ENVIRONMENTAL UNIT
1 South Wilmington St.
Raleigh, NC 27611

2012 STANDARD SPECIFICATIONS

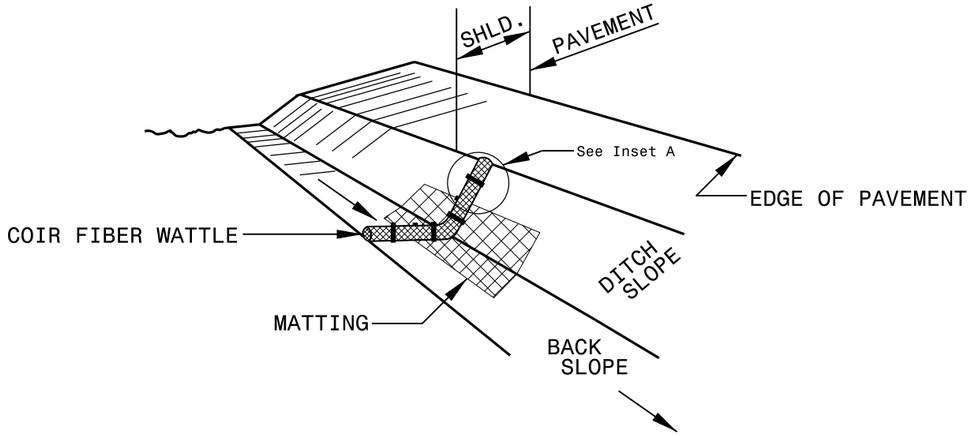
Roadway Standard Drawings

The following roadway english standards as appear in "Roadway Standard Drawings"– Roadway Design Unit – N. C. Department of Transportation – Raleigh, N. C., dated January 2012 and the latest revison thereto are applicable to this project and by reference hereby are considered a part of these plans.

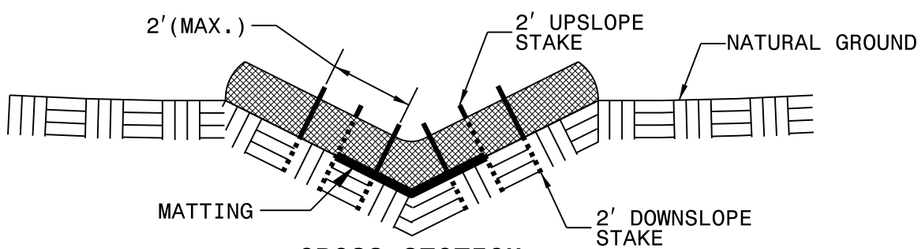
1604.01	Railroad Erosion Control Detail	1632.01	Rock Inlet Sediment Trap Type A
1605.01	Temporary Silt Fence	1632.02	Rock Inlet Sediment Trap Type B
1606.01	Special Sediment Control Fence	1632.03	Rock Inlet Sediment Trap Type C
1607.01	Gravel Construction Entrance	1633.01	Temporary Rock Silt Check Type A
1622.01	Temporary Berms and Slope Drains	1633.02	Temporary Rock Silt Check Type B
1630.01	Riser 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		

PROJECT REFERENCE NO.	SHEET NO.
I7BPJCJ	EC-2A
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

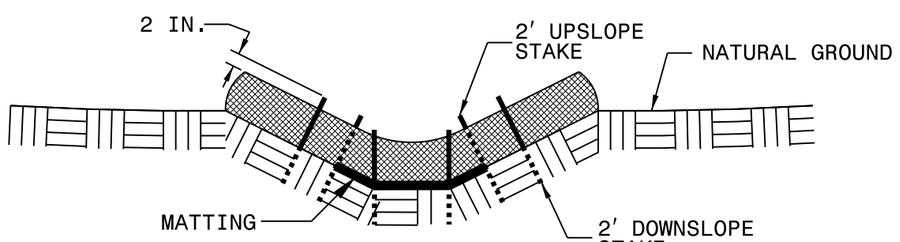
COIR FIBER WATTLE DETAIL



ISOMETRIC VIEW



CROSS SECTION VEE DITCH



CROSS SECTION TRAPEZOIDAL DITCH

NOTES:

USE MINIMUM 12 IN. DIAMETER COIR FIBER (COCONUT FIBER) WATTLE.

USE 2 FT. WOODEN STAKES WITH A 2 IN. BY 2 IN. NOMINAL CROSS SECTION.

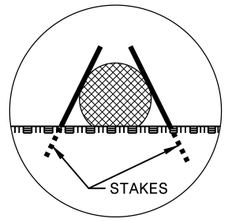
ONLY INSTALL WATTLE(S) TO A HEIGHT IN DITCH SO FLOW WILL NOT WASH AROUND WATTLE AND SCOUR DITCH SLOPES AND AS DIRECTED.

INSTALL A MINIMUM OF 2 UPSLOPE STAKES AND 4 DOWNSLOPE STAKES AT AN ANGLE TO WEDGE WATTLE TO BOTTOM OF DITCH.

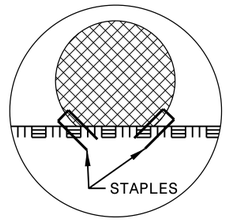
PROVIDE STAPLES MADE OF 0.125 IN. DIAMETER STEEL WIRE FORMED INTO A U SHAPE NOT LESS THAN 12″ IN LENGTH.

INSTALL STAPLES APPROXIMATELY EVERY 1 LINEAR FOOT ON BOTH SIDES OF WATTLE AND AT EACH END TO SECURE IT TO THE SOIL.

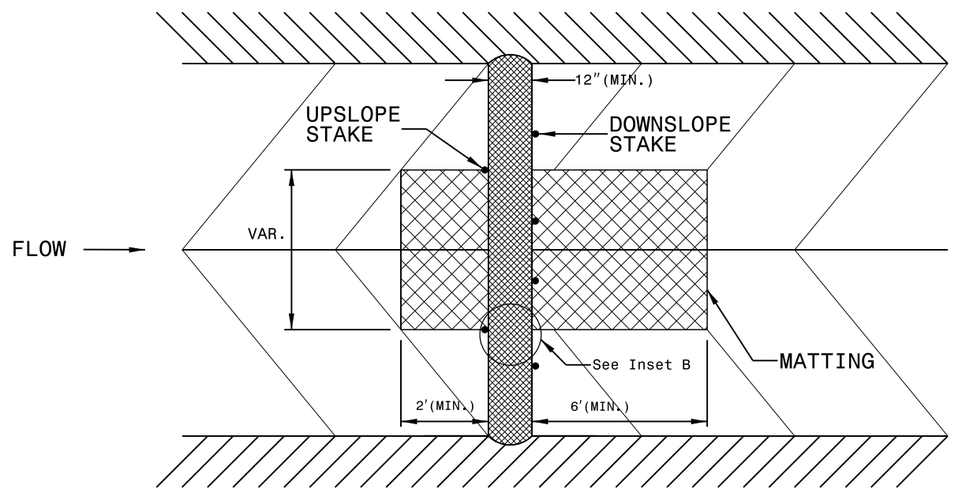
INSTALL MATTING IN ACCORDANCE WITH SECTION 1631 OF THE STANDARD SPECIFICATIONS.



INSET A



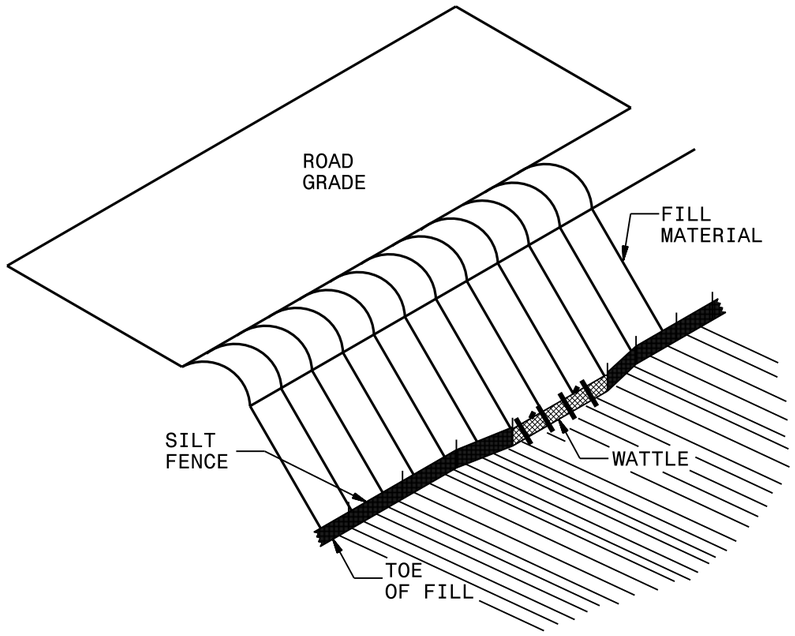
INSET B



TOP VIEW

SILT FENCE COIR FIBER WATTLE BREAK DETAIL

PROJECT REFERENCE NO.	SHEET NO.
17BPJ.CJ	EC-2C
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER



ISOMETRIC VIEW

NOTES:

USE MINIMUM 12 IN. DIAMETER COIR FIBER (COCONUT FIBER) WATTLE AND LENGTH OF 10 FT.

EXCAVATE A 1 TO 2 INCH TRENCH FOR WATTLE TO BE PLACED.

DO NOT PLACE WATTLE ON TOE OF SLOPE.

USE 2 FT. WOODEN STAKES WITH A 2 IN. BY 2 IN. NOMINAL CROSS SECTION.

INSTALL A MINIMUM OF 2 UPSLOPE STAKES AND 4 DOWNSLOPE STAKES AT AN ANGLE TO WEDGE WATTLE TO GROUND.

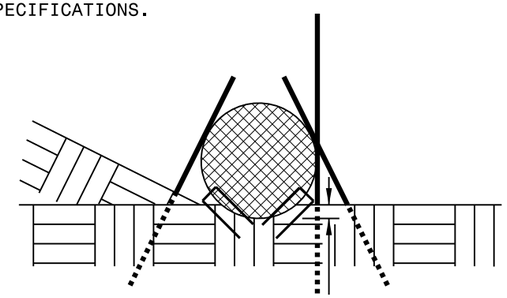
PROVIDE STAPLES MADE OF 0.125 IN. DIAMETER STEEL WIRE FORMED INTO A U SHAPE NOT LESS THAN 12″ IN LENGTH.

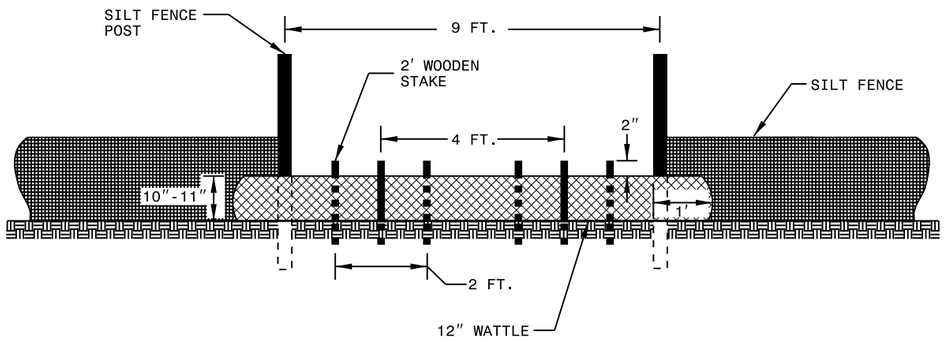
INSTALL STAPLES APPROXIMATELY EVERY 1 LINEAR FOOT ON BOTH SIDES OF WATTLE AND AT EACH END TO SECURE IT TO THE SOIL.

WATTLE INSTALLATION CAN BE ON OUTSIDE OF THE SILT FENCE AS DIRECTED.

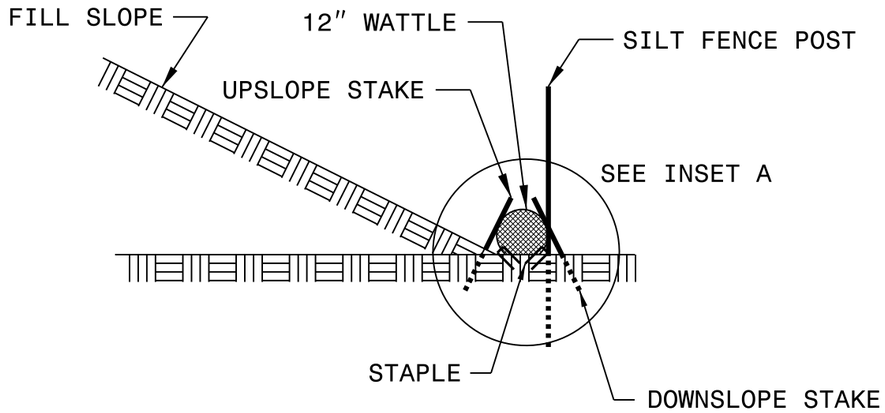
INSTALL TEMPORARY SILT FENCE IN ACCORDANCE WITH SECTION 1605 OF THE STANDARD SPECIFICATIONS.

INSET A





VIEW FROM SLOPE



SIDE VIEW

PROJECT REFERENCE NO.	SHEET NO.
17BPJCJ	EC-3
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

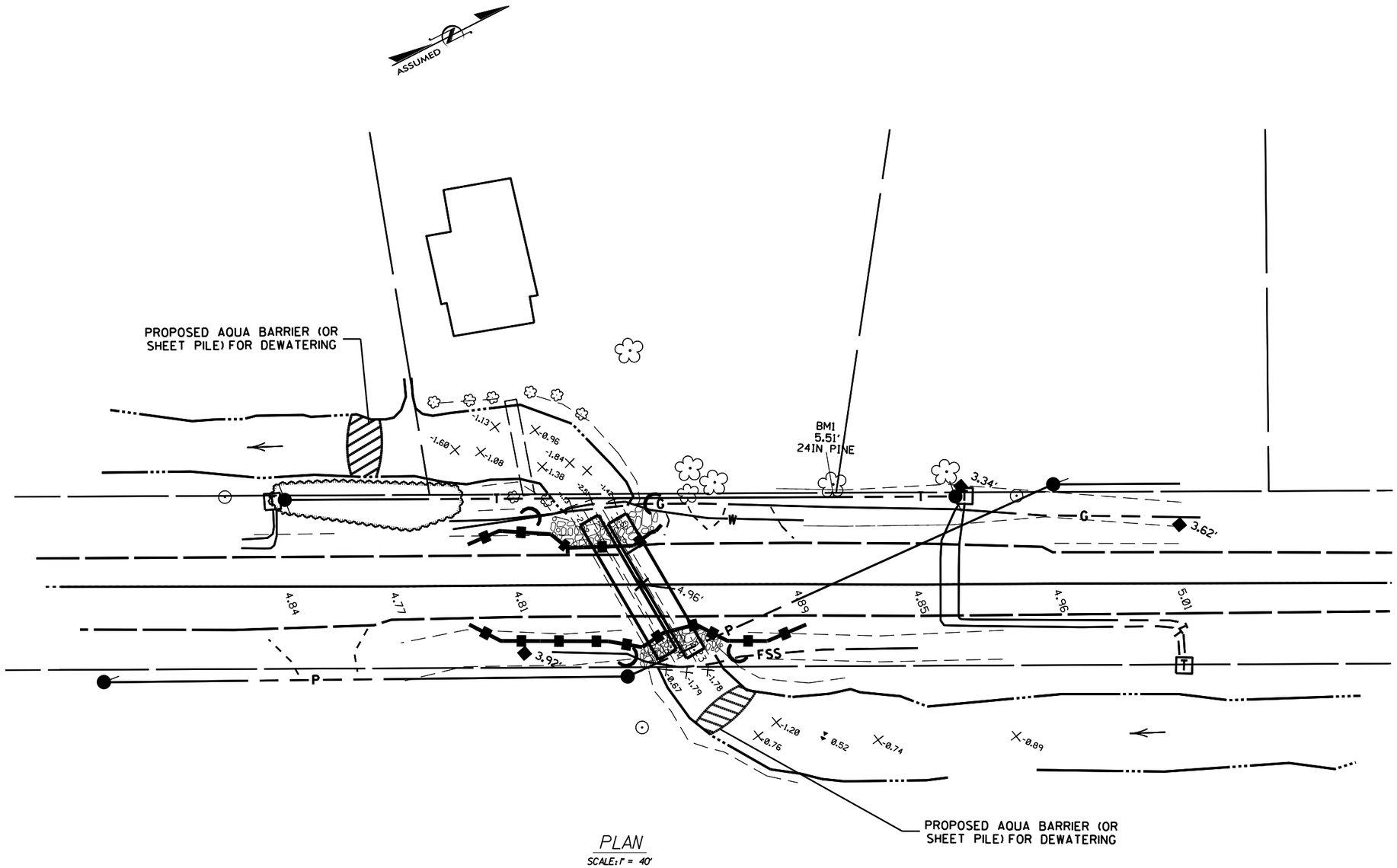
DIVISION OF HIGHWAYS
STATE OF NORTH CAROLINA

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	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

PROJECT REFERENCE NO.	SHEET NO.
17BPJ.CJ	EC-4



PLAN
SCALE: 1" = 40'

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

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

Std. #	Description	Symbol
1605.01	Temporary Silt Fence	
SP	Coir Fiber Wattle	

PLAN VIEW
DETAILED DRAWING

ASSUMED

Jarvis A Hassell
535 New Rd
Columbia NC 27925
224/201

Ronald L Jarvis
P.O. Box 39
Columbia NC 27925
197/710

1SFD

Agricultural Field

PROPOSED AQUA BARRIER (OR SHEET PILE) FOR DEWATERING

EXISTING 3 @ 60" X 60' CORRUGATED METAL PIPE

BM1
5.51'
24IN PINE

3.34'

3.62'

TO SR 1216

5.01

4.96

6" DI

W

G

SR 1214 New Rd

4.85

4.89

6" DI

-0.89

-0.96
-1.13
-1.84
-2.24
-1.38
-1.60
-1.08

4.96'

P

FSS

PROPOSED 2 @ 87" X 63" X 54' CORRUGATED ALUMINUM PIPE

-0.74
-1.78
-1.79
-0.67
-1.20
0.52
-0.76

PROPOSED AQUA BARRIER (OR SHEET PILE) FOR DEWATERING

4.81

3.92'

4.77

4.84

0.50 MILES TO SR 1209

Lola S Brickhouse
402 New Rd
Columbia NC 27925
0/0

Agricultural Field

LEGEND

— — — *EXISTING*

——— *PROPOSED*

North Carolina Transportation
Division 1
113 Airport Drive, Suite 100
Edenton, NC 27932
(252) 482-1850

Nothing Compares

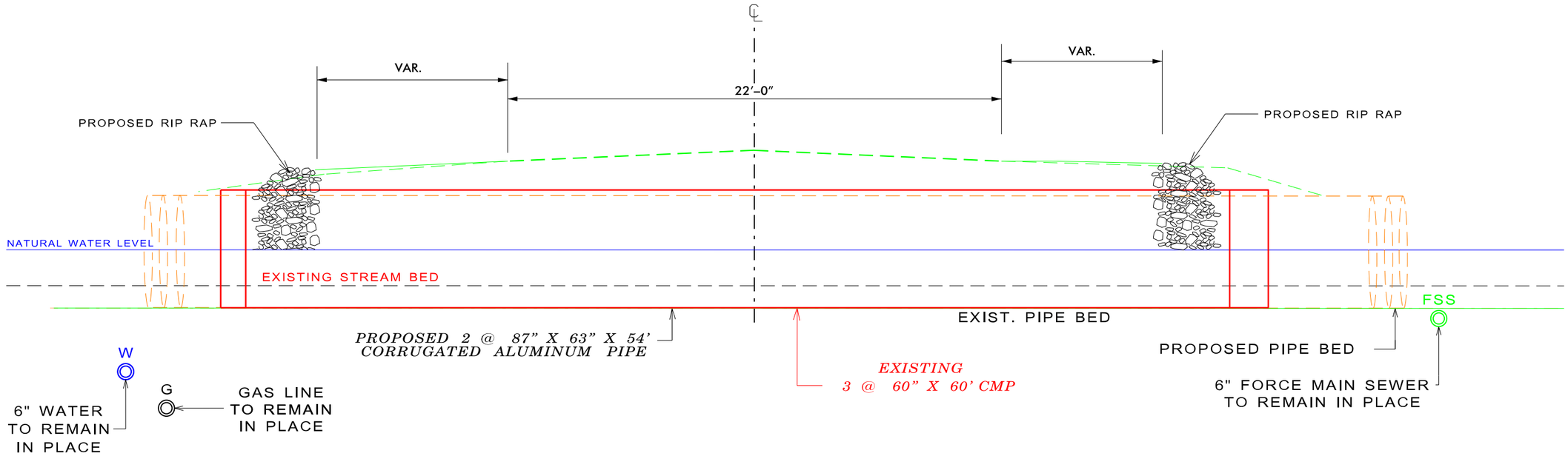
COUNTY:	Tyrrell	WBS#:	17BP.1.C.1
QUAD:	Columbia East	DATE:	November 18, 2015
BASIN:	Pasquotank	SHEET #:	1 OF 3

Replacement of Pipe Culvert on SR 1214 New Rd

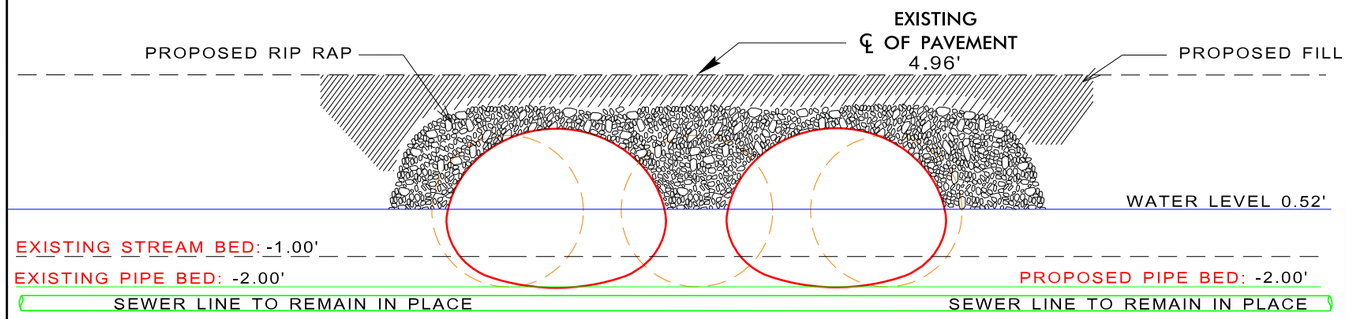
LAT. = 35.940415 N | LONG. = 76.245123 W

DRAWN BY: D.H. Stallings | SCALE: 1" = 30'

DETAIL SECTION – CROSS SECTION



NOTE: PROPOSED 2 @ 87" X 63" X 54' CORRUGATED ALUMINUM PIPE CULVERT TO BE BURIED 1.0' BELOW EXISTING STREAM BED



NOTE: ALL ELEVATIONS BASED NGS MONUMENT "AI1065"

DETAIL SECTION – INLET END VIEW

North Carolina Transportation
Division 1
113 Airport Drive, Suite 100
Edenton, NC 27932
(252) 482-1850

Nothing Compares

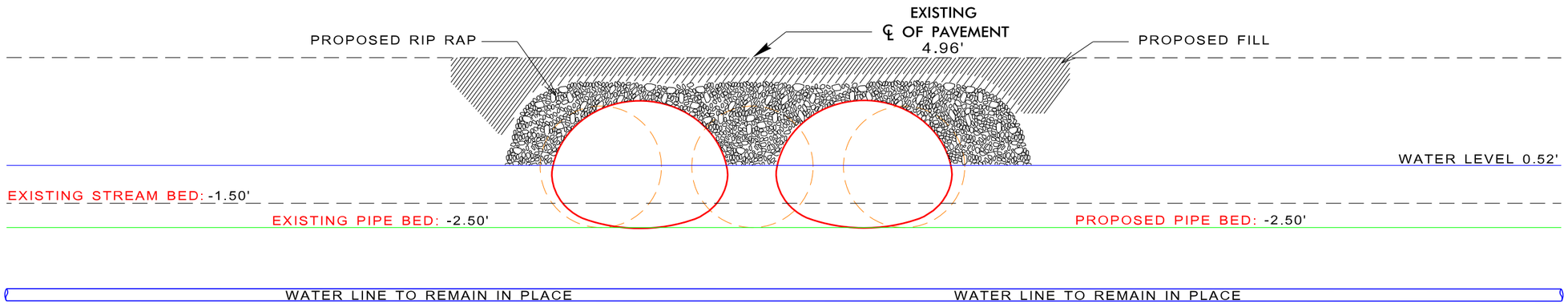
COUNTY:	Tyrrell	WBS#:	17BP.1.C.1
QUAD:	Columbia East	DATE:	November 18, 2015
BASIN:	Pasquotank	SHEET #:	2 OF 3

Replacement of Pipe Culvert on SR 1214 New Rd

LAT. = 35.940415 N | LONG. = 76.245123 W

DRAWN BY: D.H. Stallings | SCALE: 1" = 5'

DETAIL SECTION – OUTLET END VIEW



NOTES: PROPOSED 2 @ 87" X 63" X 54' CORRUGATED ALUMINUM PIPE CULVERT TO BE BURIED 1.0' BELOW EXISTING STREAM BED

ALL ELEVATIONS BASED ON NGS MONUMENT "AI1065"

North Carolina Transportation
Division 1
113 Airport Drive, Suite 100
Edenton, NC 27932
(252) 482-1850

Nothing Compares

COUNTY:	Tyrrell	WBS#:	17BP.1.C.1
QUAD:	Columbia East	DATE:	November 18, 2015
BASIN:	Pasquotank	SHEET #:	3 OF 3

Replacement of Pipe Culvert on SR 1214 New Rd

LAT. = 35.940415 N | LONG. = 76.245123 W

DRAWN BY: D.H. Stallings | SCALE: 1" = 5'