Channel Mitigation Monitoring Sheets I, II, III, AND IV

Monitoring Data Record

Project Title: U-2524AC COE Action ID: 200321137
Stream Name: Woodlyn Way DWQ Number: 030909
City, County and other Location Information: Greensboro, Guilford Co., The stream is located off of the Greensboro Western Loop @ Sta. 57+80 and goes downstream until it intersects with East Woodlyn Way Date Construction Completed: Water was turned into the stream on February 1, 2007 and streambank reforestation was completed on February 15, 2007.
Monitoring Year: (4) of 5
Ecoregion: 8 digit HUC unit 03030002
USGS Quad Name and Coordinates:
Rosgen Classification: Proposed reach is a C5 stream type
Length of Project: 1,250' Urban or Rural: Urban Watershed Size:
Monitoring DATA collected by: M. Green & J. Young Date: 8/30/10
Applicant Information:
Name: NCDOT Roadside Environmental Unit
Address: 1425 Rock Quarry Road Raleigh, NC 27610
Telephone Number: (919) 861-3772 Email address: mlgreen@ncdot.gov
Consultant Information:
Name:
Address:
Telephone Number: Email address:
Project Status: Complete

Monitoring Level required by COE and DWQ (404 permit/ 401 Cert.): Level 1 ~~2~~ ~~3~~
Monitoring Level 1 requires completion of *Section 1, Section 2 and Section 3*

Permit States: NCDOT shall perform the following components of Level I monitoring twice each year for the 5 year monitoring period (summer and winter): Reference photos, plant survival, and visual inspection of channel stability. If less than two bankfull events occur during the first 5 years, NCDOT shall continue monitoring until the second bankfull event is documented. The bankfull events must occur during separate monitoring years. In the event that the required bankfull events do not occur during the 5 year monitoring period, the USACE, in consultation with resource agencies, may determine that further monitoring is not required.

Section 1. PHOTO REFERENCE SITES
(Monitoring at all levels must complete this section)

Total number of reference photo locations at this site: There were 9 photo point locations set. Two photos were taken at each location, except, for photo point #4 which has 3 photos taken from this location.
Dates reference photos have been taken at this site: 2/15/07, 7/19/07, 1/16/08, 7/15/08, 2/9/09, 7/27/09, 2/17/10, 8/30/10

Individual from whom additional photos can be obtained (name, address, phone):

Other Information relative to site photo reference: A site map is included with this report showing the photo point locations.

If required to complete Level 3 monitoring only stop here; otherwise, complete section 2.

Section 2. PLANT SURVIVAL
Attach plan sheet indicating reference photos.

Identify specific problem areas (missing, stressed, damaged or dead plantings):

Estimated causes, and proposed/required remedial action:

ADDITIONAL COMMENTS: Streambank reforestation was completed in February 2007 and included the following species Type I: black willow and silky dogwood and Type II: sycamore, green ash, northern red oak, river birch, tulip poplar, water oak, and willow oak. Other vegetation noted: *Juncus* sp., sweetgum, lespedeza, fern, sedge, fennel, pokeberry, *Pluchea* sp., multi flora rose, winged elm, smartweed, briars, and various grasses. The planted vegetation is surviving on the streambank and in the floodplain. NCDOT will continue to monitor the planted vegetation.

If required to complete Level 1 and Level 2 monitoring only stop here; otherwise, complete section 3.

Section 3. CHANNEL STABILITY

Visual Inspection: The entire stream project as well as each in-stream structure and bank stabilization/revetment structure must be evaluated and problems addressed.

Report on the visual inspection of channel stability. Physical measurements of channel stability/morphology will not be required. Include a discussion of any deviations from as-built and an evaluation of the significance of these deviations and whether they are indicative of a stabilizing or destabilizing situation.

This is the Year 4 Summer evaluation of the Woodlyn Way Stream Restoration Project. The stream is stabilized for this evaluation, except for, some bank scouring noted on the left bank at Sta. 11+60. This area of bank scouring shows little or no change since the last evaluation. A bankfull event had occurred onsite since the last evaluation. NCDOT will continue monitoring this stream restoration project.

8/30/10	Sta. 11+60 Additional Photo	Station Number	Station Number	Station Number	Station Number
Structure Type					
Is water piping through or around structure?					
Head cut or down cut present?					
Bank or scour erosion present?	Bank scouring on left bank				

Section 4. DEBIT LEDGER

The entire Woodlyn Way stream restoration site was used for the U-2524AC project to compensate for unavoidable stream impacts.

Woodlyn Way

Photo Point #1 (Upstream)

Photo Point #1 (Downstream)

Photo Point #2 (Upstream)

Photo Point #2 (Downstream)

Photo Point #3 (Upstream)

Photo Point #3 (Downstream)

Year 4 Summer – August 2010

Woodlyn Way

Photo Point #4 (Upstream)

Photo Point #4 (Upstream – tie in w/ tributary)

Photo Point #4 (Downstream)

Photo Point #5 (Upstream)

Photo Point #5 (Downstream)

Woodlyn Way

Photo Point #6 (Upstream)

Photo Point #6 (Downstream)

Photo Point #7 (Upstream)

Photo Point #7 (Downstream)

Photo Point #8 (Upstream)

Photo Point #8 (Downstream)

Woodlyn Way

Photo Point #9 (Upstream)

Photo Point #9 (Downstream)

Bank scouring on left bank @ Sta. 11+60

Year 4 Summer – August 2010

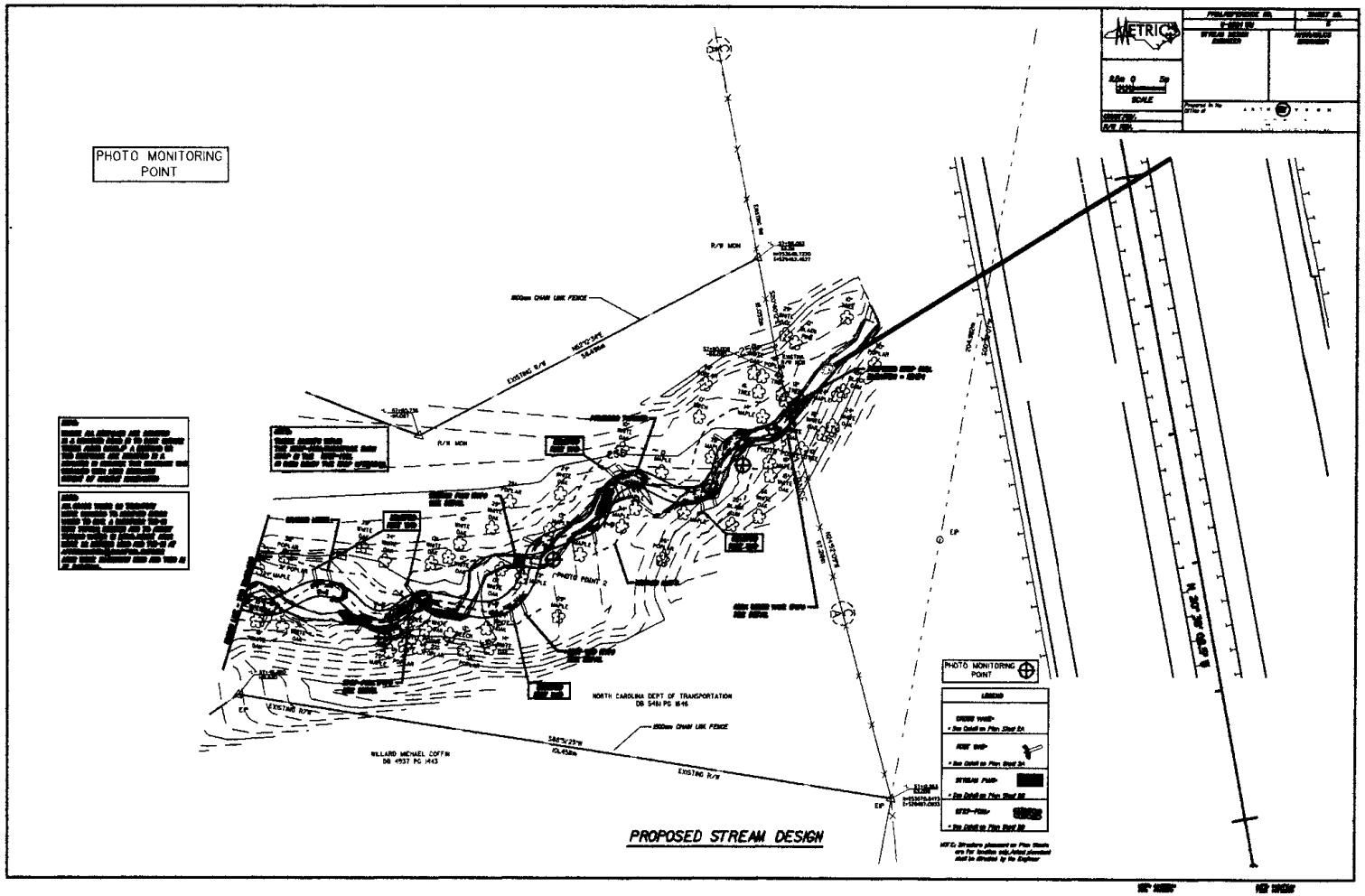
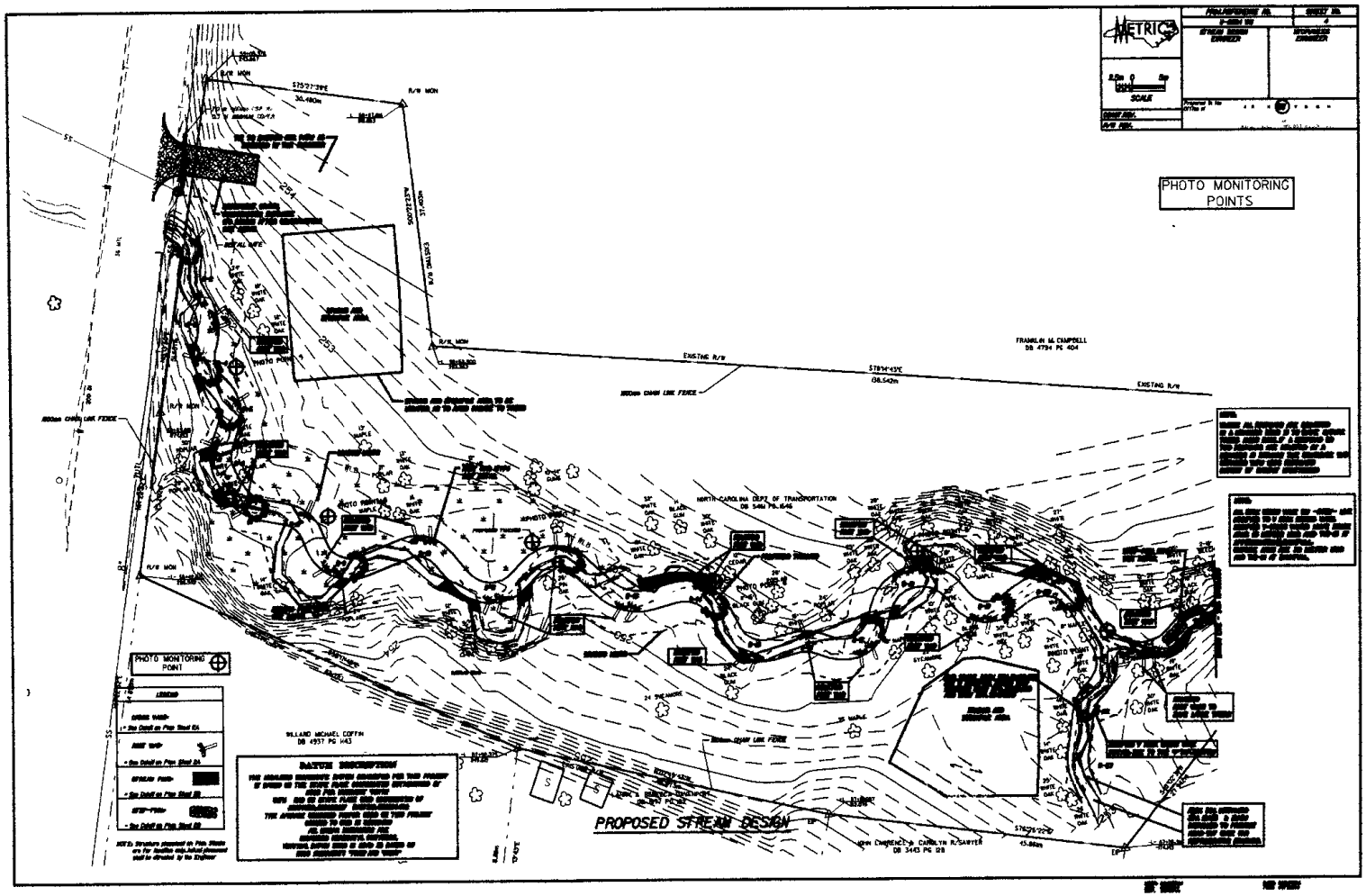


PHOTO MONITORING POINT
METRIC
SCALE
R/W MON
EXISTING R/W
NORTH CAROLINA DEPT OF TRANSPORTATION
DB 5481 PG 1646
WILLARD MICHAEL COFFIN
DB 4937 PG 1443
PHOTO POINT 2
PHOTO MONITORING POINT
LEGEND
PROPOSED STREAM DESIGN



METRIC
PHOTO MONITORING POINTS
PHOTO MONITORING POINT
PROPOSED STREAM DESIGN
EXISTING R/W
FRANKLIN M. CAMPBELL
DB 4794 PG 404
NORTH CAROLINA DEPT OF TRANSPORTATION
WILLARD MICHAEL COFFIN
DB 4937 PG 1143
JOHN CLARENCE & CAROLYN R. SAWYER
DB 3443 PG 28