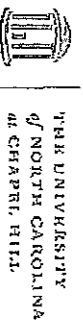


CAROLINA NORTH
INDIVIDUAL PERMIT APPLICATION



PROJECT VICINITY

JAN 04 2011

REVISED: 09.15.10¹⁰ Regulatory Branch

- LEGEND**
- Carolina North Boundary

ACTION ID: 2010-0160
 APPLICANT: UNIVERSITY OF NORTH CAROLINA
 AT CHAPEL HILL
 PROJ. NAME: CAROLINA NORTH
 SHEET 1 OF 21

Source: National Geographic TOPO-
 scanned USGS 7.5 minute Topographic
 Quadrangle, Chapel Hill, 1983.

BioPharm's
 SOLUTIONS

0 1,500 3,000 Feet

FIGURE A-1

CAROLINA NORTH

INDIVIDUAL PERMIT APPLICATION



THE UNIVERSITY
of NORTH CAROLINA
at CHAPEL HILL

REVISED 2007 PROPOSED 50-YEAR DEVELOPMENT PLAN

REVISED: 10.20.10

Legend

- Carolina North Boundary
- Open Water
- Delineated Wetlands
- Impacted Wetlands
- Town Streams
- USACOE/DWQ Delineated Streams
- USACOE/DWQ Offsite Delineated Streams
- Impacted Stream
- Proposed Railroad Spur
- Proposed Greenway
- Development Area
- Proposed Buildings
- Stormwater Wetland
- Cistern
- Bioretention
- Proposed Recreation Fields
- Proposed Greenspace

ACTION ID: 2010-01840
 APPLICANT: UNIVERSITY OF
 NORTH CAROLINA
 AT CHAPEL HILL

PROJ. NAME: CAROLINA NORTH

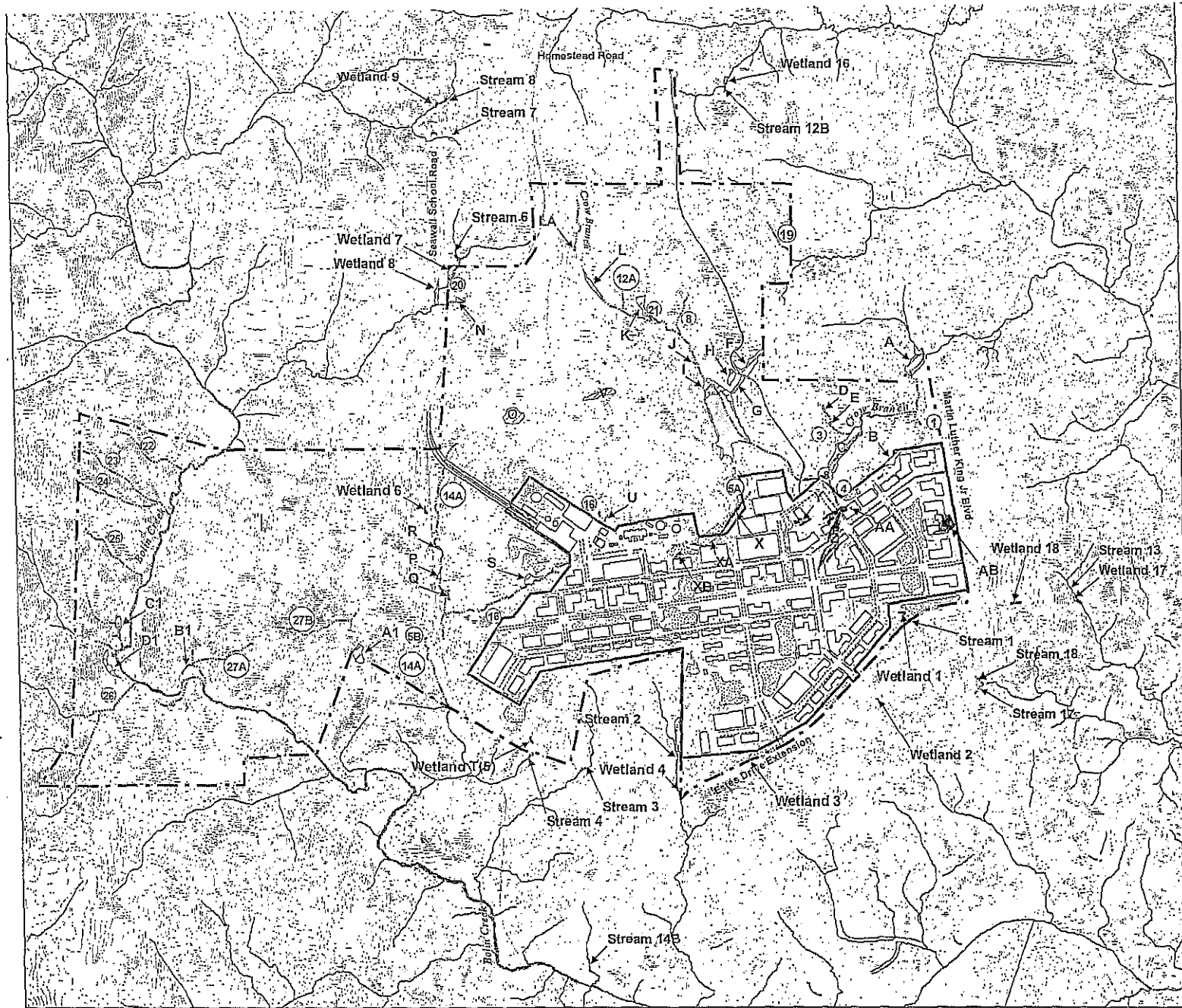
SHEET 2 OF 21



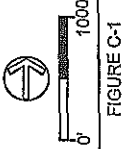
0 500 1,000 Feet



FIGURE A-4



ACTION ID: 2/10-01840
 APPLICANT: UNIVERSITY OF NORTH CAROLINA AT CHAPEL HILL
 PROJ. NAME: CAROLINA NORTH
 SHEET 3 OF 121



LEGEND
 - - - CAROLINA NORTH BOUNDARY
 - - - DEVELOPMENT AREA BOUNDARY
 - - - STREAM CENTERLINE
 [Hatched Box] EXISTING WETLAND AREA

LEGEND
 [Hatched Box] CAROLINA NORTH INDIVIDUAL PERMIT APPLICATION IMPACTS WITHIN AND OUTSIDE OF THE DEVELOPMENT FOOTPRINT
 SHEET INDEX

THE UNIVERSITY OF NORTH CAROLINA AT CHAPEL HILL
 BIOLOGICAL SERVICES

REVISED: 10.18.10

FIGURE C-5: STREAM 8 IMPACTS

FIGURE C-16: WETLAND AREAS X & STREAM 5A (ISOLATED) IMPACTS

FIGURE C-3: WETLAND AREAS AA, Y & Z IMPACTS

FIGURE C-15: WETLAND AREA A & CROW BRANCH IMPACTS

FIGURE C-2: WETLAND AREAS XA' & XB (ISOLATED) IMPACTS

FIGURE C-4: WETLAND AREA AB IMPACTS

FIGURE C-6: STREAM 14A IMPACTS

FIGURE C-17: WETLAND AREAS C, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, S, T, U, V, W, X, Y, Z AND STREAM 13 IMPACTS

FIGURE C-7: WETLAND AREA 6 IMPACTS

FIGURE C-13: STREAM 1 IMPACT

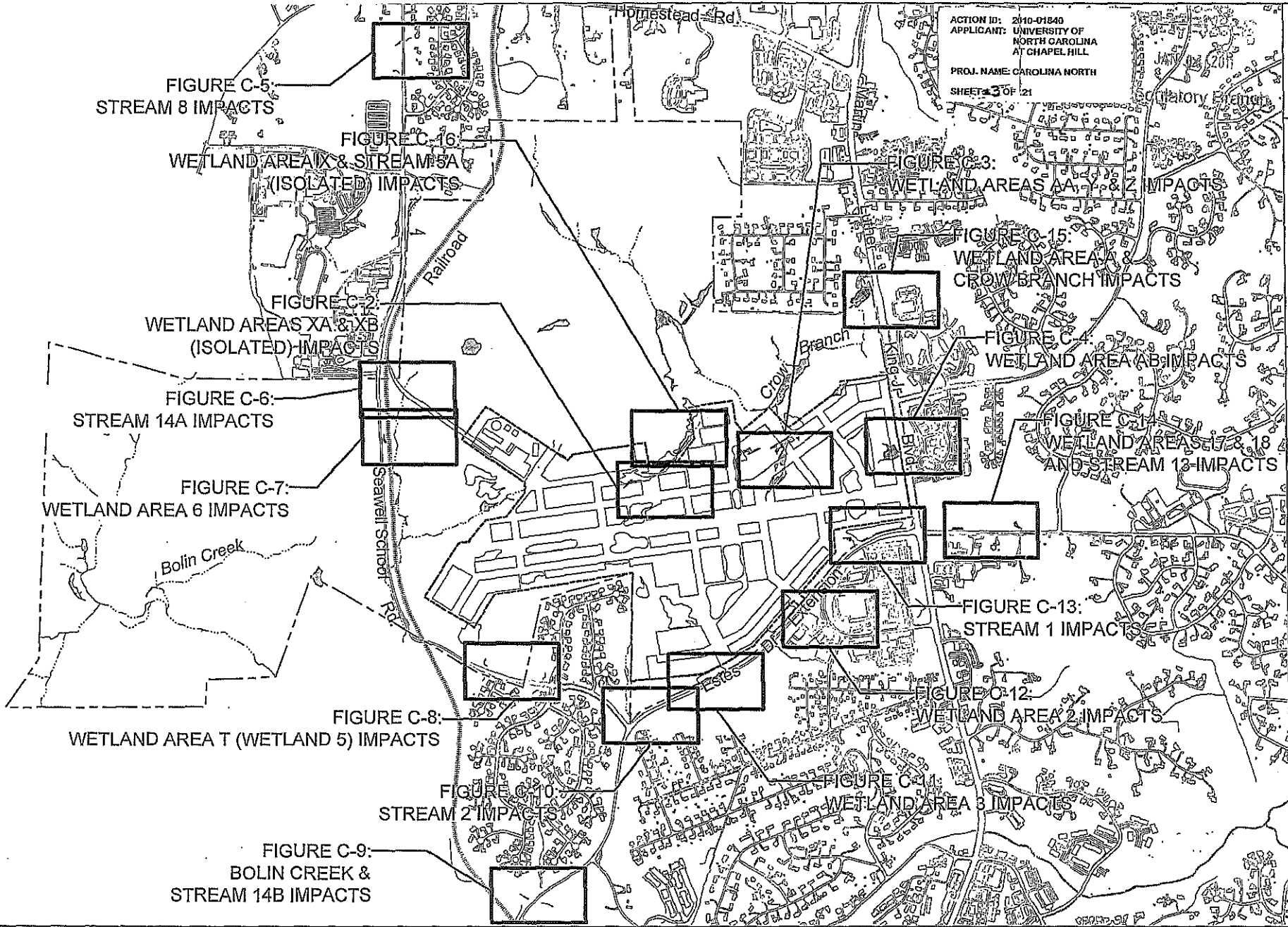
FIGURE C-8: WETLAND AREA T (WETLAND 5) IMPACTS

FIGURE C-12: WETLAND AREA 2 IMPACTS

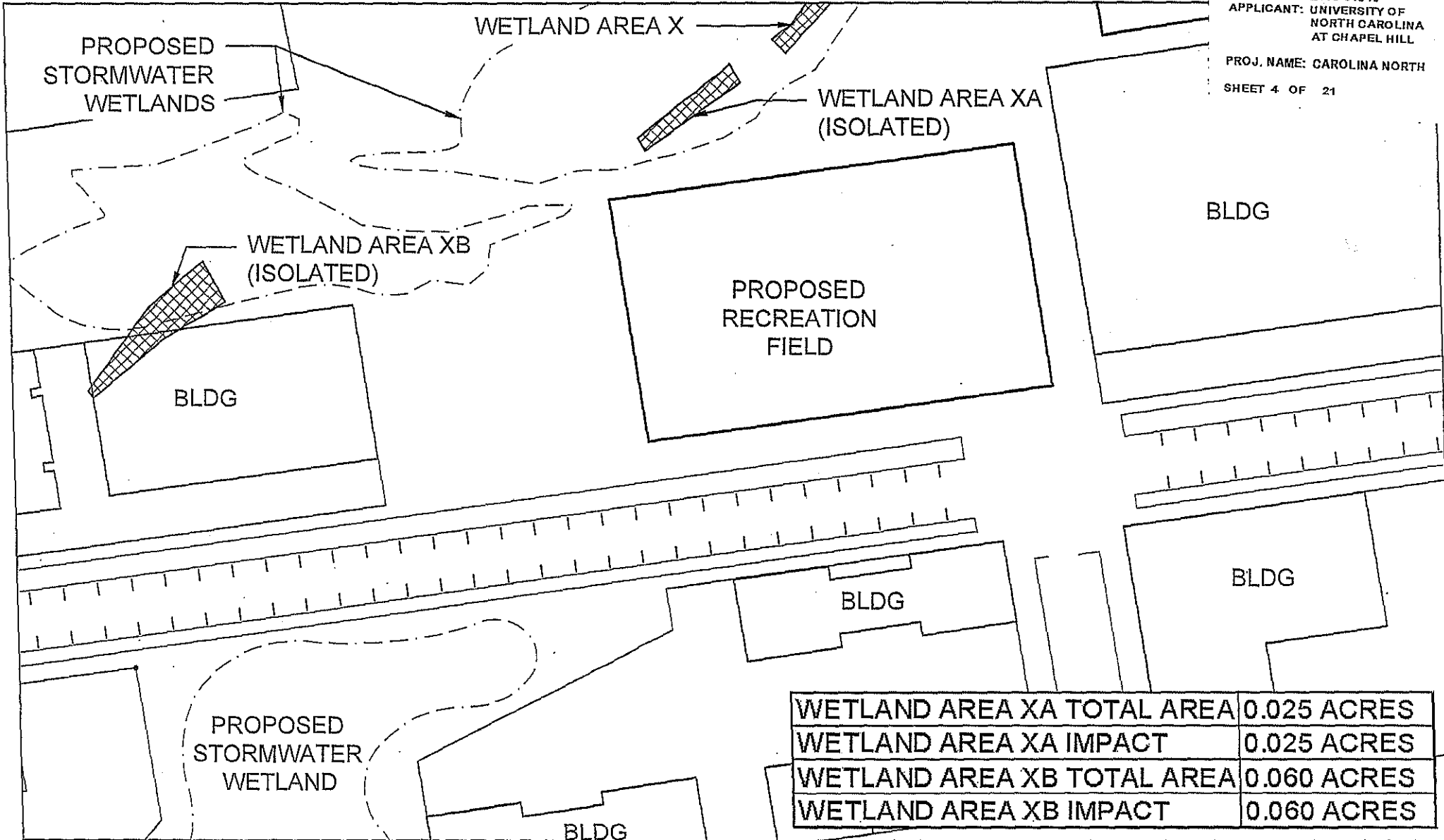
FIGURE C-10: STREAM 2 IMPACTS

FIGURE C-14: WETLAND AREA 3 IMPACTS

FIGURE C-9: BOLIN CREEK & STREAM 14B IMPACTS



ACTION ID: 2010-01840
 APPLICANT: UNIVERSITY OF NORTH CAROLINA AT CHAPEL HILL
 PROJ. NAME: CAROLINA NORTH
 SHEET 4 OF 21



WETLAND AREA XA TOTAL AREA	0.025 ACRES
WETLAND AREA XA IMPACT	0.025 ACRES
WETLAND AREA XB TOTAL AREA	0.060 ACRES
WETLAND AREA XB IMPACT	0.060 ACRES



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Biohabitats
 SOUTHWEST REGION


CAROLINA NORTH INDIVIDUAL PERMIT APPLICATION
 IMPACTS WITHIN THE DEVELOPMENT FOOTPRINT
 WETLAND AREAS XA AND XB (ISOLATED) IMPACTS

REVISED: 10.18.10

LEGEND

 WETLAND AREA

 WETLAND IMPACT AREA




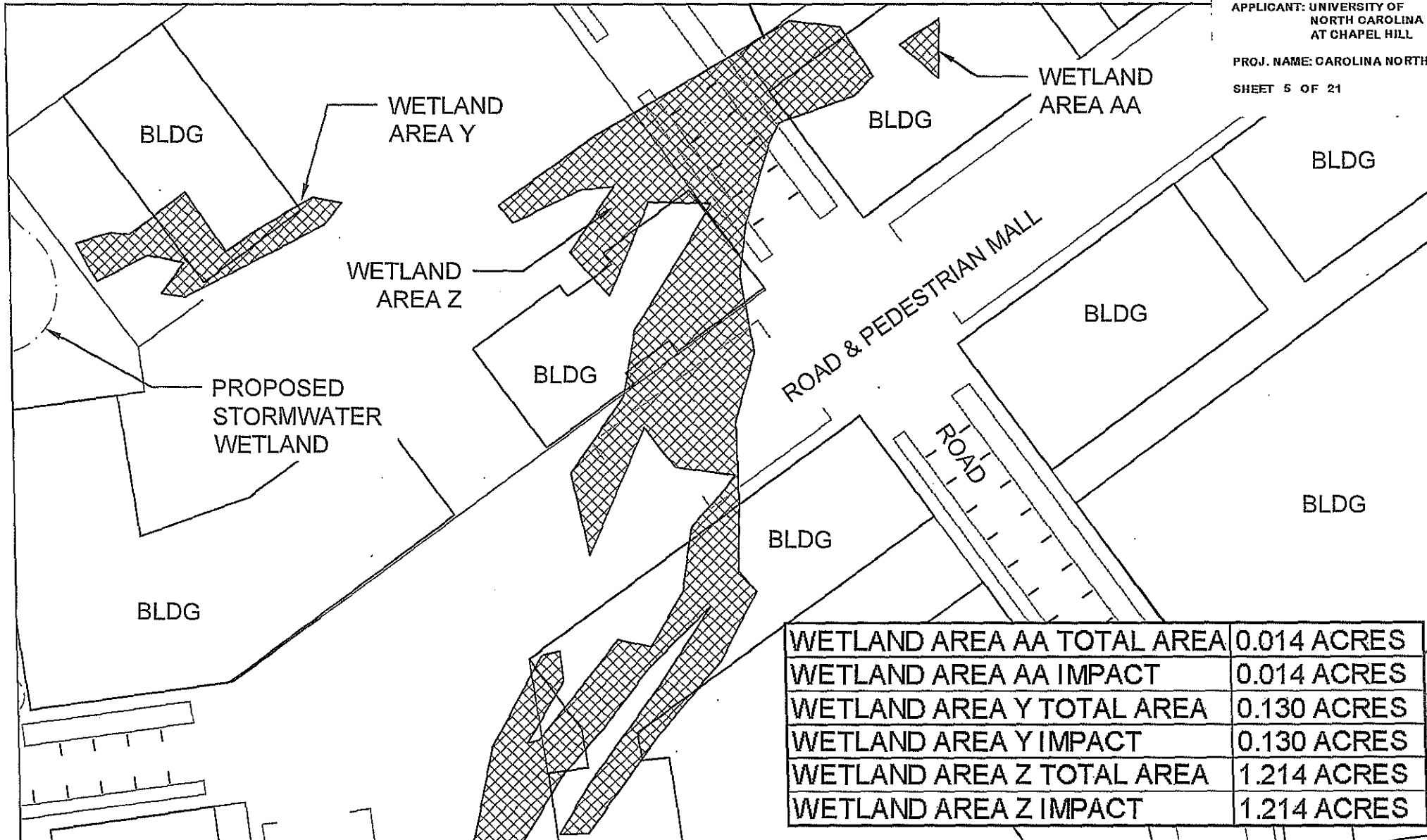
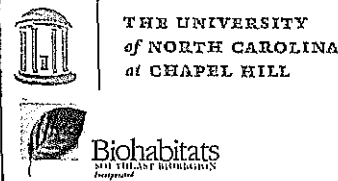


FIGURE C-2

ACTION ID: 2010-01840
 APPLICANT: UNIVERSITY OF
 NORTH CAROLINA
 AT CHAPEL HILL
 PROJ. NAME: CAROLINA NORTH
 SHEET 5 OF 21



WETLAND AREA AA TOTAL AREA	0.014 ACRES
WETLAND AREA AA IMPACT	0.014 ACRES
WETLAND AREA Y TOTAL AREA	0.130 ACRES
WETLAND AREA Y IMPACT	0.130 ACRES
WETLAND AREA Z TOTAL AREA	1.214 ACRES
WETLAND AREA Z IMPACT	1.214 ACRES



CAROLINA NORTH INDIVIDUAL PERMIT APPLICATION
 IMPACTS WITHIN THE DEVELOPMENT FOOTPRINT
 WETLAND AREAS AA, Y, AND Z IMPACTS

REVISED: 10.18.10

LEGEND

 WETLAND AREA

 WETLAND IMPACT AREA



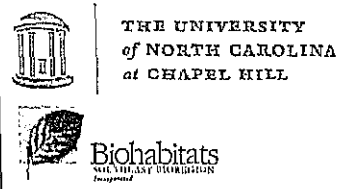
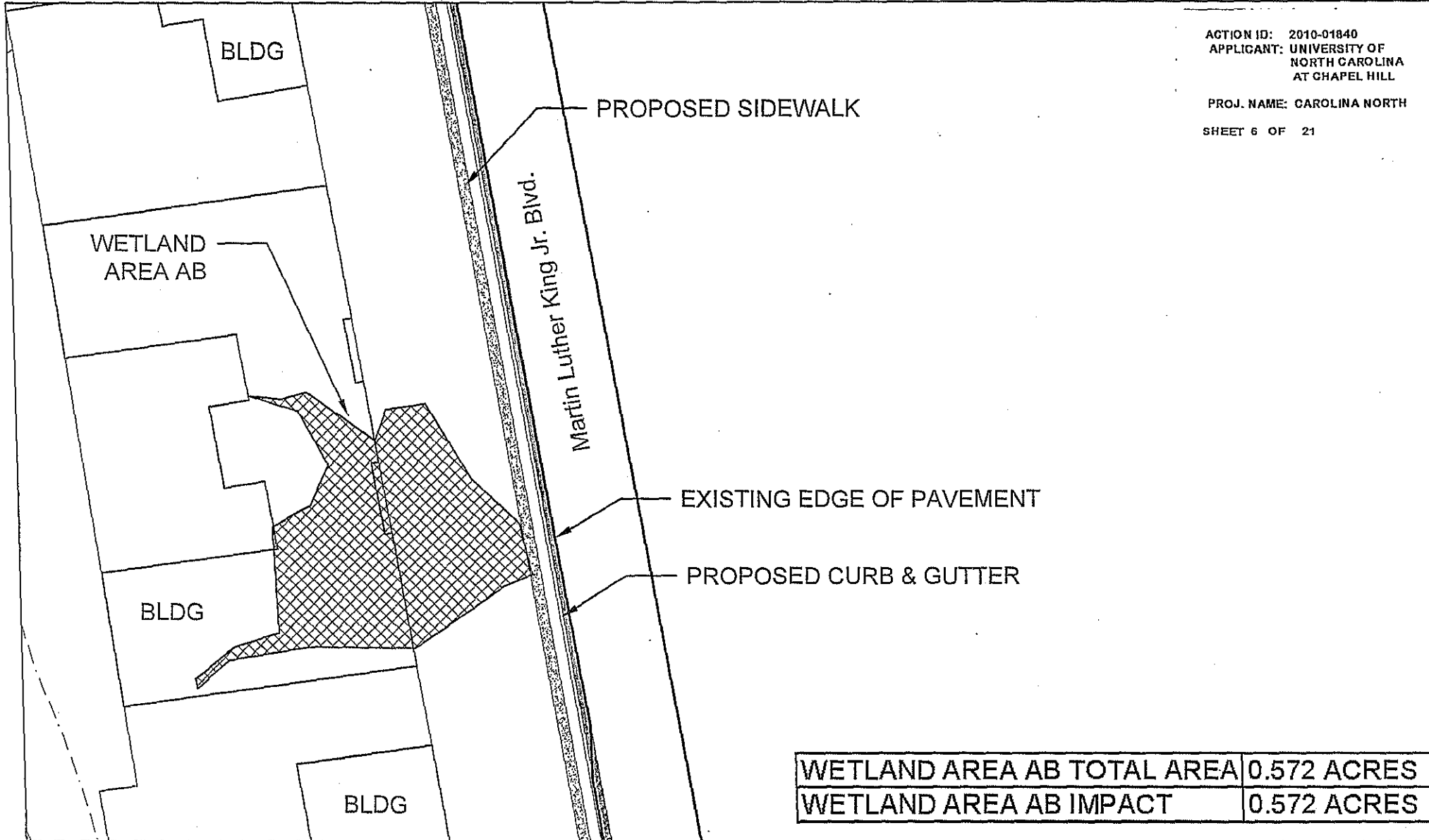



FIGURE C-3



ACTION ID: 2010-01840
 APPLICANT: UNIVERSITY OF
 NORTH CAROLINA
 AT CHAPEL HILL
 PROJ. NAME: CAROLINA NORTH
 SHEET 6 OF 21



CAROLINA NORTH INDIVIDUAL PERMIT APPLICATION
 IMPACTS WITHIN THE DEVELOPMENT FOOTPRINT
 WETLAND AREA AB IMPACTS

REVISED: 10.18.10

LEGEND

 WETLAND AREA
 WETLAND IMPACT AREA

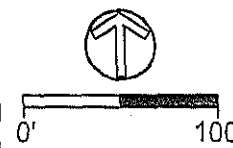
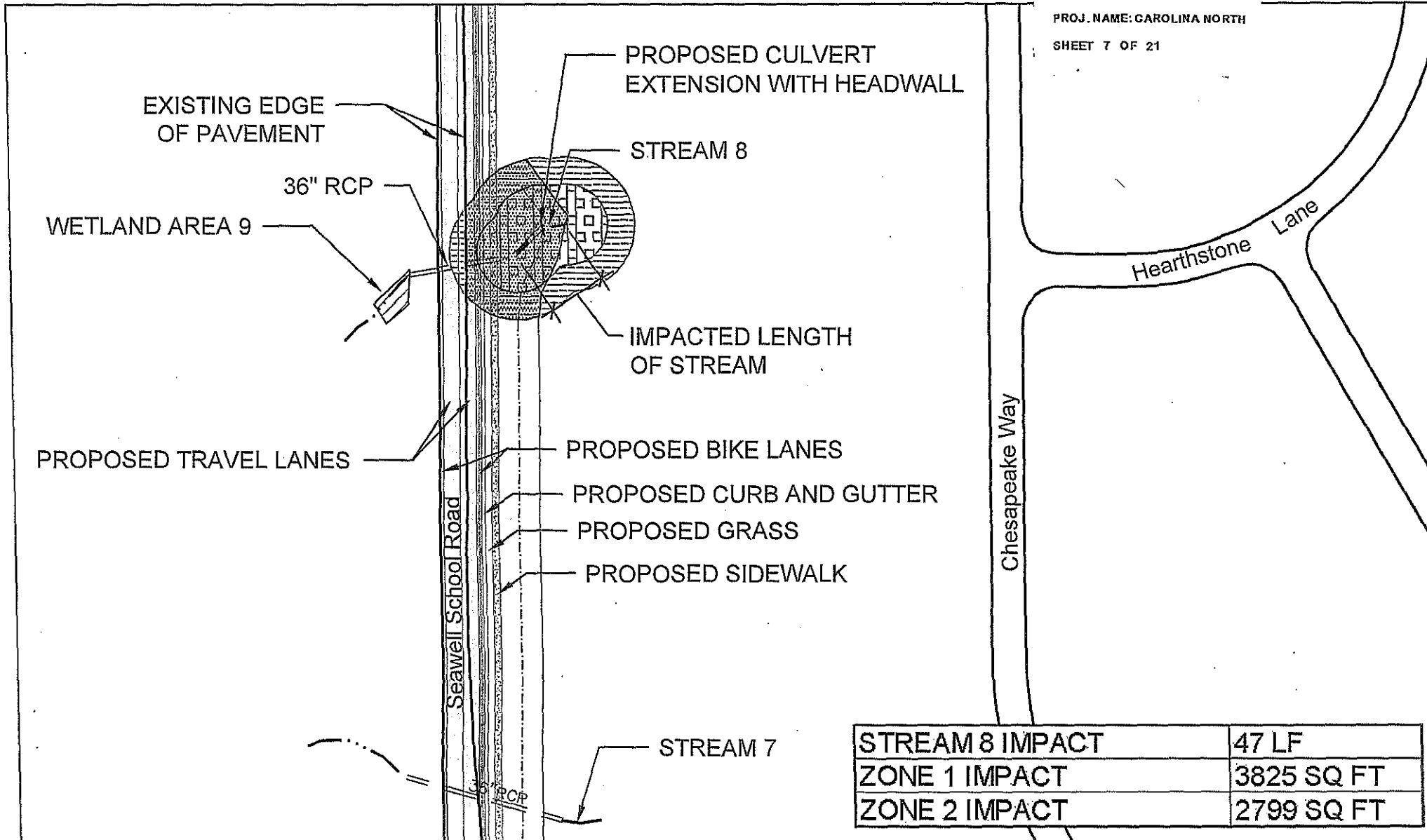


FIGURE C-4

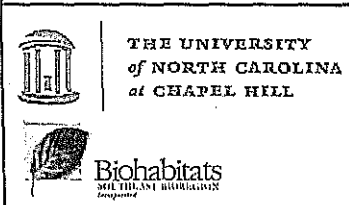
ACTION ID: 2010-01840
 APPLICANT: UNIVERSITY OF
 NORTH CAROLINA
 AT CHAPEL HILL

PROJ. NAME: CAROLINA NORTH

SHEET 7 OF 21



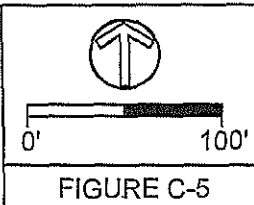
STREAM 8 IMPACT	47 LF
ZONE 1 IMPACT	3825 SQ FT
ZONE 2 IMPACT	2799 SQ FT

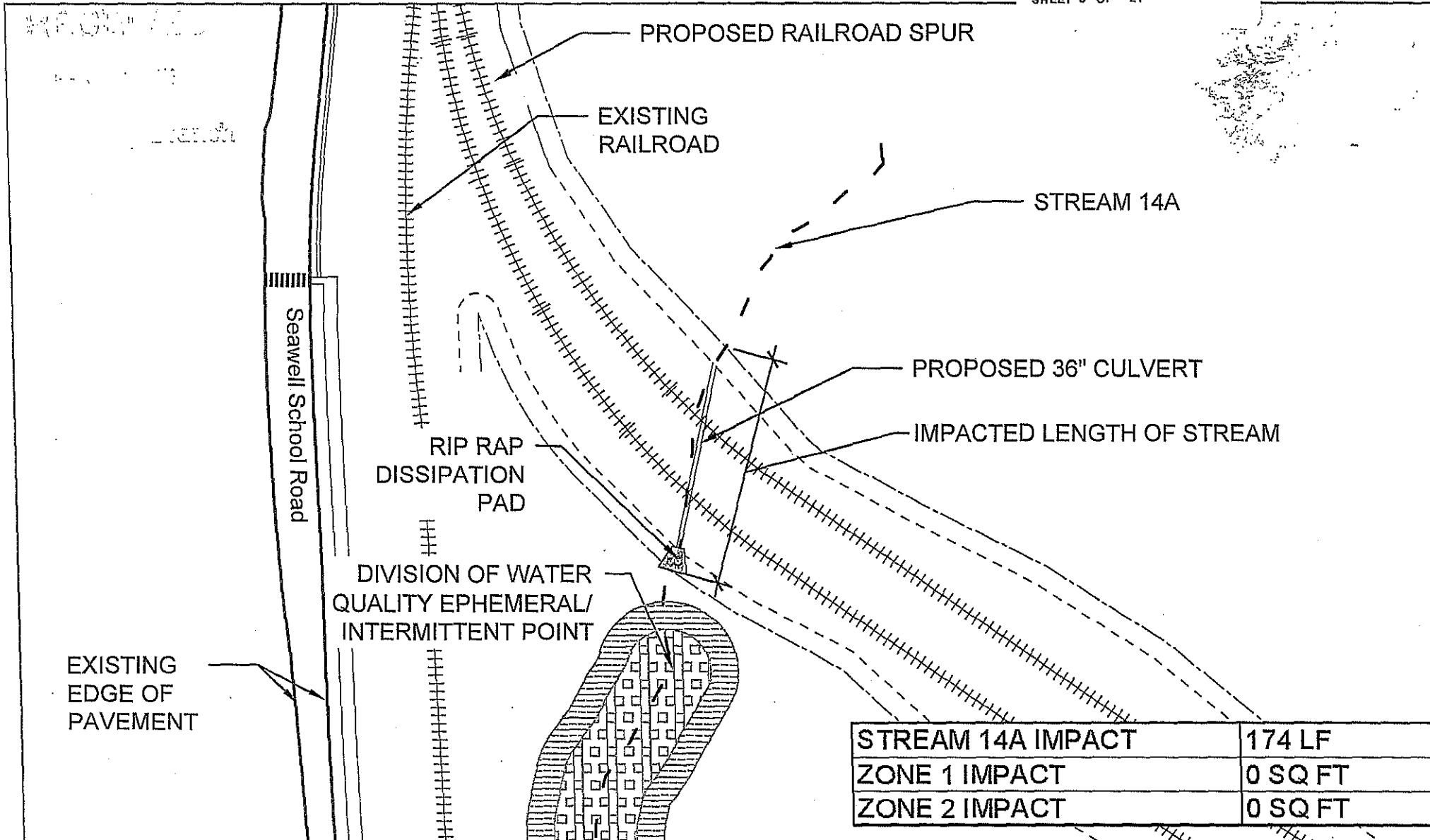


CAROLINA NORTH INDIVIDUAL PERMIT APPLICATION
 IMPACTS OUTSIDE THE DEVELOPMENT FOOTPRINT
STREAM 8 IMPACTS
 REVISED: 10.18.10

LEGEND

	JORDAN LAKE BUFFER: ZONE 1
	JORDAN LAKE BUFFER: ZONE 2
	JORDAN LAKE BUFFER IMPACT AREA
	STREAM CENTERLINE
	APPROXIMATE TOE OF SLOPE
	CONSTRUCTION LIMITS





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CAROLINA NORTH INDIVIDUAL PERMIT APPLICATION
 IMPACTS OUTSIDE THE DEVELOPMENT FOOTPRINT
STREAM 14A IMPACTS

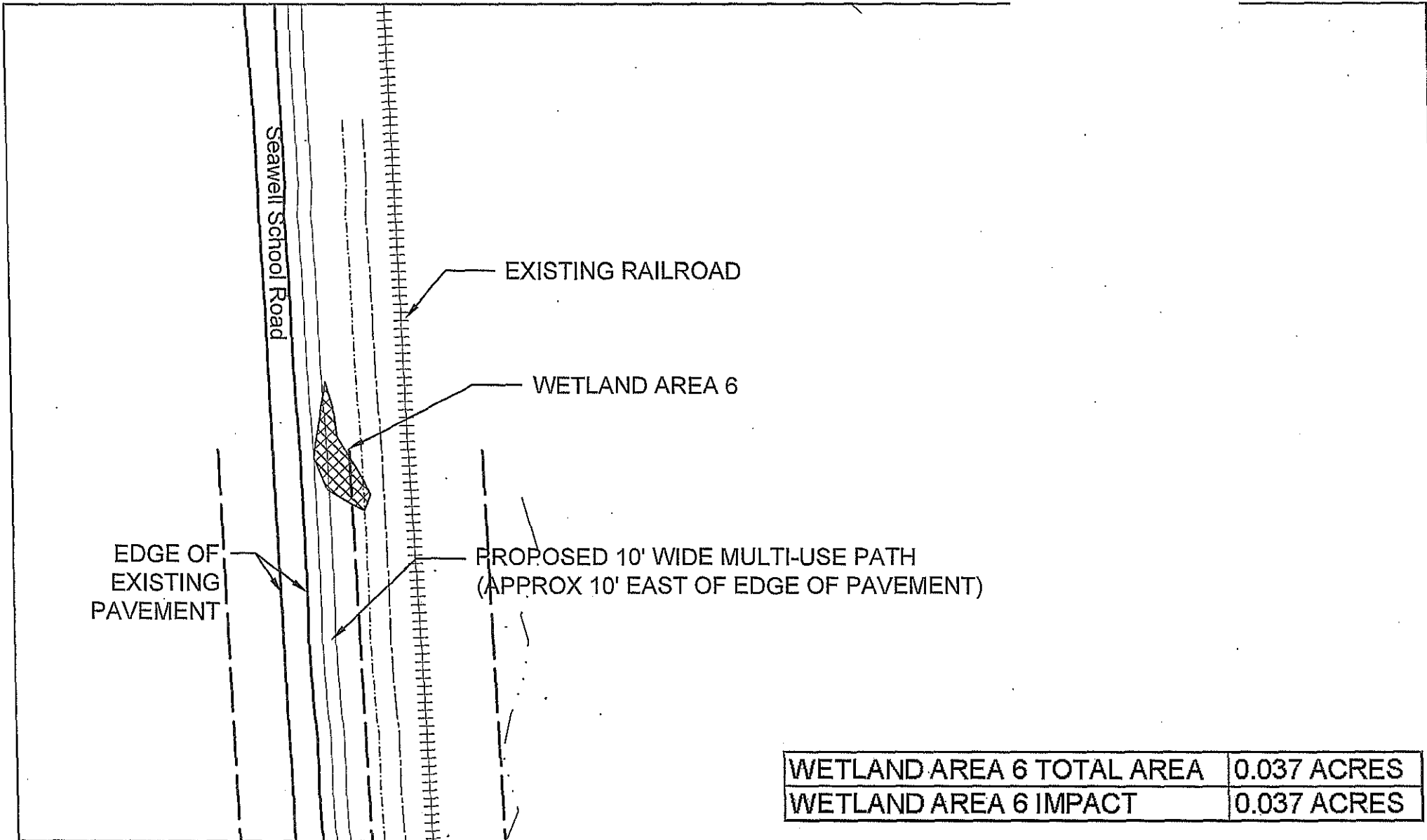
FEBRUARY 16, 2011 REVISION 1

LEGEND

- JORDAN LAKE BUFFER: ZONE 1
- JORDAN LAKE BUFFER: ZONE 2
- JORDAN LAKE BUFFER IMPACT AREA
- STREAM CENTERLINE
- APPROXIMATE TOE OF SLOPE
- CONSTRUCTION LIMITS



FIGURE C-6



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Biohabitats
 SOUTHEAST DIVISION

CAROLINA NORTH INDIVIDUAL PERMIT APPLICATION
 IMPACTS OUTSIDE THE DEVELOPMENT FOOTPRINT
 WETLAND AREA 6 IMPACTS

REVISED: 10.18.10

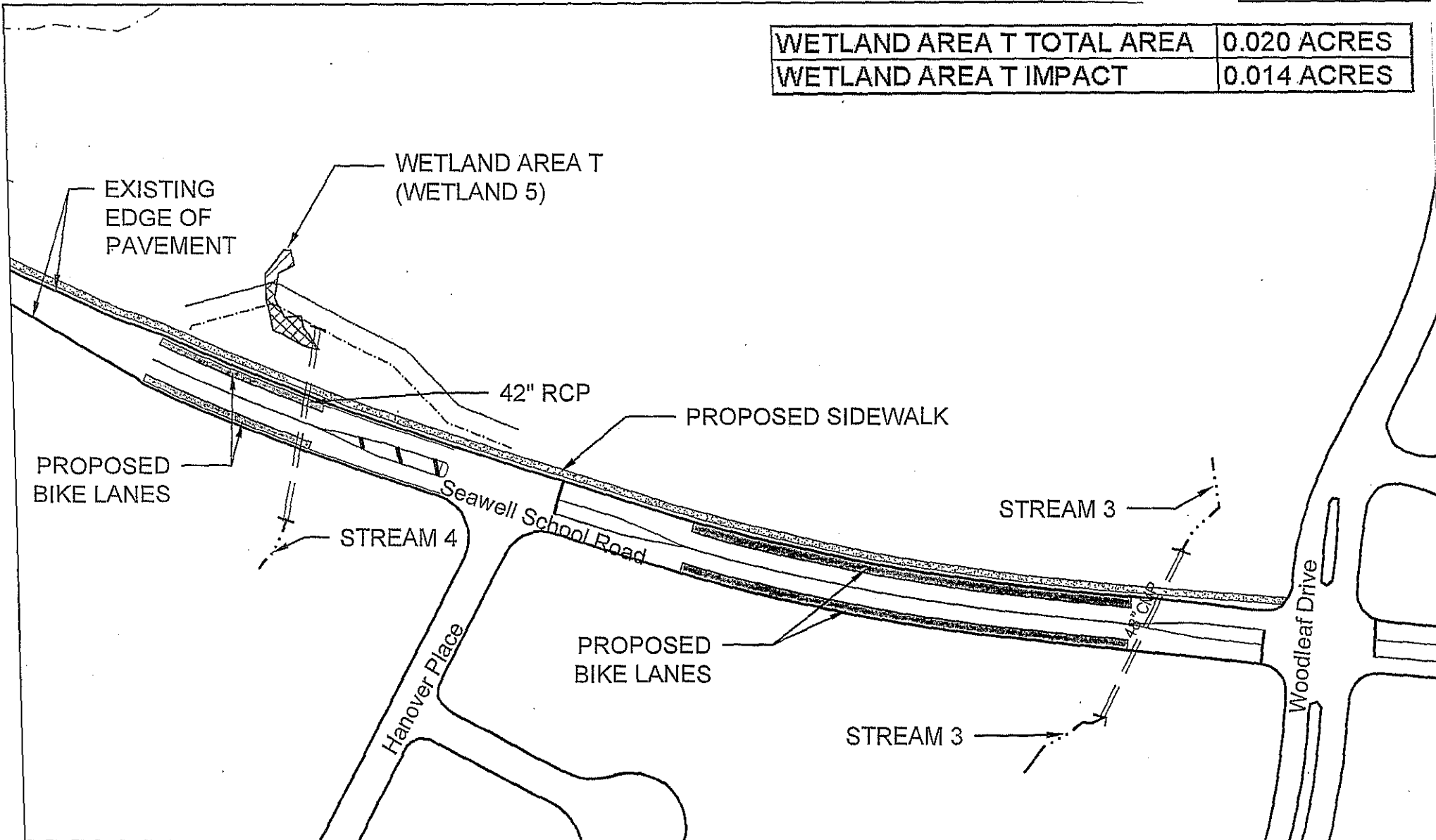
LEGEND

-  WETLAND AREA
-  WETLAND IMPACT AREA
-  APPROXIMATE TOE OF SLOPE
-  CONSTRUCTION LIMITS



FIGURE C-7

WETLAND AREA T TOTAL AREA	0.020 ACRES
WETLAND AREA T IMPACT	0.014 ACRES



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 at CHAPEL HILL



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CAROLINA NORTH INDIVIDUAL PERMIT APPLICATION
 IMPACTS OUTSIDE THE DEVELOPMENT FOOTPRINT
 WETLAND AREA T (WETLAND 5) IMPACTS

REVISED: 10.18.10

LEGEND






-  WETLAND AREA
-  WETLAND IMPACT AREA
-  APPROXIMATE TOE OF SLOPE
-  CONSTRUCTION LIMITS
-  STREAM CENTERLINE



FIGURE C-8