

Turnipseed Nature Preserve

Historic Resource Assessment



Turnipseed Nature Preserve
Hunt Valley Trail and Pleasants Road
Wendell, Wake County, North Carolina

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F I R E F L Y
PRESERVATION CONSULTING

Turnipseed Nature Preserve

Historic Resource Assessment

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Owner and Architectural Historian

Text, layout, and photos by Cheri LaFlamme Szcodronski

Maps courtesy of Google Maps and Raleigh & Wake County iMaps

Table of Contents

Project Description	4
Historic Properties	5
Farm Shed	6
Medlin-Pleasants Farm	7
William & Mattie Horton House	8
Marshburn House	9
William & Delia Hollifield House	10
Hollifield Farm Houses	11
Hollifield-Watson Farm	13
Attachment A: Wake County Tax Map	14
Attachment B: Phase I & II Rendering	16
Attachment C: LWCF Site Plan	18
Attachment D: Trail Layout Site Plan	20
Attachment E: Soil Erosion Site Plan	22
Attachment F: Topographical Map	25
Attachment G: USGS Topographical Map	27

Project Description

The Turnipseed Nature Preserve is a 249.81-acre site located within Wake County in the Marks Creek watershed, a sub-basin of the larger Neuse River watershed. The preserve is managed by Wake County Parks, Recreation, & Open Space (PROS). The first phase of Turnipseed Nature Preserve is currently under construction and will be open to the public in the summer of 2017, providing access from Hunt Valley Trail.

Wake County has received a grant from the National Park Service's Land and Water Conservation Fund to build Phase II of the preserve, which will expand the preserve to include one additional mile of accessible nature and hiking trails, a pedestrian bridge, boardwalks, a small pond with an accessible fishing area, open play areas, two picnic areas, interpretive signage and a gravel parking lot for 35 cars, including ADA parking, on Pleasants Road. The Phase II project area includes approximately 95 acres of the total preserve.

Wake County PROS has obtained all necessary permits and approvals, including the following: General Permit, NC DOT Driveway Permit, Nationwide Permits, Flood Study Plan Approval, Stormwater Construction Plan, Water Quality Certification, and Erosion and Sedimentation Control Plan Approval. Wake County holds fee simple ownership of the property and has no plans to sell or lease any part of the preserve or any resources within its boundaries.

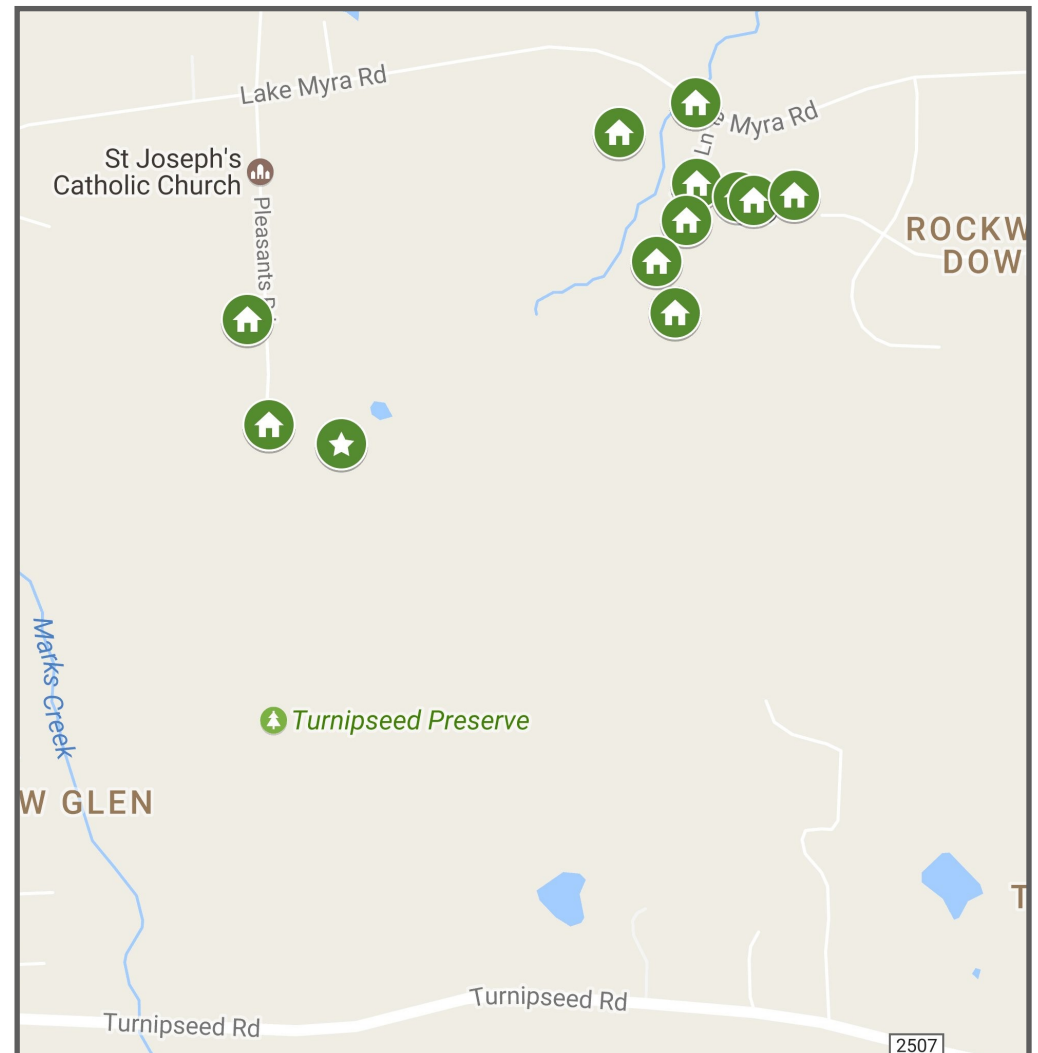
Part of the property is encumbered with an easement from the North Carolina Clean Water Management Trust Fund. Allowable uses on the property include: passive recreational use, walking and hiking trails, pedestrian foot bridge, observation platforms, canoe/kayak access, parking, environmental learning kiosk, covered picnic shelter and tables, and convenience facilities (restrooms). This easement was executed April 17, 2007, and may be found in Deed Book 12504, pages 2316-2330, at the Wake County Register of Deeds.

Historic Properties

Introduction

Thirteen historic resources were surveyed and assessed for eligibility to the National Register of Historic Places. These include one within the Turnipseed Preserve project boundaries and twelve adjacent to the preserve. The building dates range from 1904 to 1961. None of these properties have been previously identified or surveyed by the North Carolina Historic Preservation Office.

Most of the land adjacent to the Turnipseed Preserve project area is either privately owned farmland or additional county-owned park land. The northeast boundary of the preserve is adjacent to a number of early- and mid-twentieth-century resources, assessed in this report, as well as a number of homes constructed within the last fifty years, which are not considered historic for the purposes of this assessment.



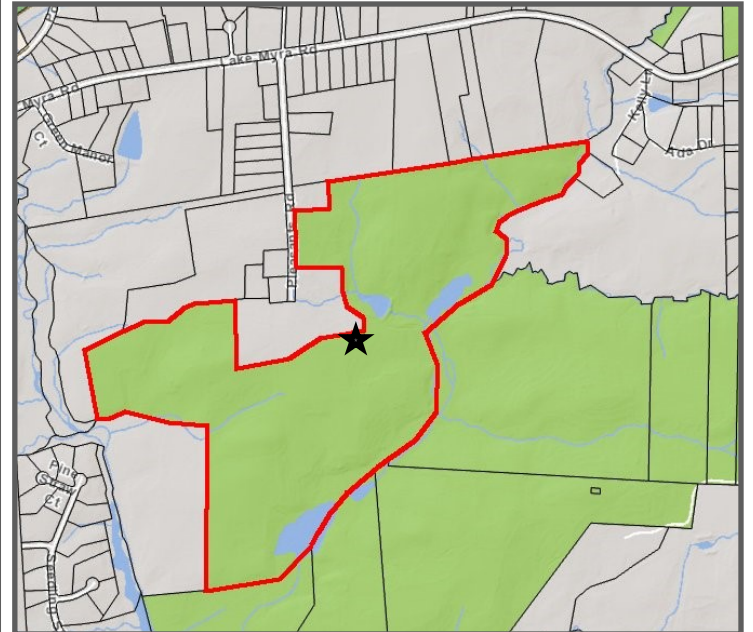
Farm Shed

Turnipseed Preserve, Wendell

There is one agriculture-related shed located within the project boundaries. It was built around the 1930s and was probably associated with the adjacent Medlin-Pleasants Farm at one time (see page 7). It has been separated from the rest of the farm complex and no longer serves an agricultural function.

The shed is a gable-front, frame building facing west toward a farm road. A batten door provides access to the interior, which is a single, unfinished room. The shed is covered in rolled asphalt and has exposed rafter tails and a metal roof.

The farm shed is not eligible for nomination to the National Register of Historic Places. It is not associated with a significant historic event or person, it does not retain distinctive architectural characteristics, and it is unlikely to yield important archaeological information. The building will be demolished during the project.



Medlin-Pleasants House

1556 Pleasants Road, Wendell

The Medlin-Pleasants House was built in 1910 by John Robert Medlin and Annie Horton Medlin, who farmed tobacco and probably subsistence crops. The house passed to their daughter, Wilma Medlin Pleasants, and her husband, Milton Pleasants, in the 1930s. They continued to operate the farm, and in 1983, Wilma Pleasants, now widowed, passed the farm to her son, George Pleasants, who kept horses. The current owner, Kristina Fowler, acquired the property from George Pleasants' estate in 2014. It is no longer used for any farming or livestock purposes.¹

The Medlin-Pleasants House has had many alterations since its construction in 1910. The original portion is a one-story, side-gable house with a replacement gabled porch supported by Doric-style columns, vinyl siding, and replacement six-over-six windows, all probably added in the 1980s. The house appears to have undergone a previous renovation in the 1930s that updated the building with Craftsman-style details, including the current entryway with a three-light-over-four-panel front door, three-light-over-one-panel sidelights, and five-light transom. The original porch appears to have been replaced at that time as well, although the 1930s porch has also since been replaced with the current form. The house has several additions on the rear and is surrounded by early twentieth-century agricultural outbuildings, including a tobacco barn and a packhouse, as well as horse barns.

The Medlin-Pleasants House is not eligible for nomination to the National Register of Historic Places. It is not associated with a significant historic event or person, it does not retain distinctive architectural characteristics, it is unlikely to yield important archaeological information, and it has been heavily altered and retains low material integrity.

¹ Pleasants Estate, Book 14727, Page 897, April 13, 2012; Wilma Medlin Pleasant to George Pleasant, Book 3151, Pages 985-987, July 29, 1983; WC & Mattie M Horton to JR Medlin, Book 249, Page 435, October 11, 1910; WC & Mattie Horton to JR Medlin, Book 214, Page 649, November 30, 1907; WC & Mattie Horton to JR Medlin, Book 214, Page 638, November 23, 1907; all deeds at Wake County Register of Deeds, Raleigh, North Carolina.



William & Mattie Horton House

1516 Pleasants Road, Wendell

This house was built in 1904 by William C. Horton and his wife, Mattie Mae Honeycutt. It was originally part of a 200-acre parcel owned by J.S. and Mary Medlin, who sold the land to their son John Robert Medlin and his wife, Annie Horton, and William C. Horton, Annie's brother. Annie and John Medlin retained the land to the south (see Medlin-Pleasants Farm at 1556 Pleasants Road) while Mattie and William built this house at 1516 Pleasants Road. The house passed to the Hortons' heirs in 1944, and additions were made to the building sometime in the mid- to late 1900s. In 1990, the Horton heirs transferred the property to Constance and Michael Horton, who sold it to the current owners, Susan and Paul Gerstenfeld.²

The William & Mattie Horton House is typical of turn-of-the-century vernacular architecture with a one-story, side-gable form and a hip-roofed porch supported by turned porch posts with decorative brackets. The stone end chimneys have been covered with cement and the house has replacement doors and windows. The porch has also been altered to add dentil detailing and a turned balustrade. A large addition extends to the rear of the house.

The house is not eligible for nomination to the National Register of Historic Places. It is not associated with a significant historic event or person, it does not retain distinctive architectural characteristics, it is unlikely to yield important archaeological information, and material integrity has been compromised by later changes to the building.

² JS Medlin to William C. Horton, Book 177, Page 21, March 21, 1903 ;JC Horton et al to Constance and Michael Horton, Book 4743, Page 584-585, July 20, 1990; Constance and Michael Horton to Susan and Paul Gerstenfeld, Book 6690, Page 398-400, September 28, 1995; all deeds at Wake County Register of Deeds, Raleigh, North Carolina.



Marshburn House

7000 Lake Myra Road, Wendell

The Marshburn House was built in the 1930s possibly as a second generation home on the Marshburn family farm. George G. and Ella Marshburn purchased a farm in Wendell in the late 1920s, and by the 1940 census, their son George Elmo Marshburn and his wife Fleeder were residing next door as renters. It is common in rural Wake County for several generations to reside on the same farm property, with each generation building a new contemporary home. Although the fate of George and Ella Marshburn's older house is unknown, there is also a 1981 house adjacent to the 1930s house. Following George and Ella Marshburn's deaths, the farm passed to their seven surviving children, who transferred ownership to George and Fleeder Marshburn in 1967. They in turn left the property to their children in 2005, who sold it to Lois and Larry Marshburn, the current owners.³

This one-story front-gabled house has a hip-roofed front porch supported by square posts, exposed rafter tails, a 5V metal roof, and a rectangular vent in the front gable. The house retains Craftsman-style three-over-one windows, a four-light-over-two-panel door, and plain weatherboard. A small shed addition extends from the rear of the house. The primary resource on this property is the adjacent 1981 house, which is a long, one-story, ranch-style house with a central porch supported by square posts. Several barns are also located immediately adjacent to the house.

The house is not eligible for nomination to the National Register of Historic Places. It is not associated with a significant historic event or person, it does not retain distinctive architectural characteristics, and it is unlikely to yield important archaeological information.

³ D.C. Marshburn et al to George Elmo Marshburn and Fleeder V. Marshburn, Book 2173, Pages 438-440, July 9, 1973; Fleeder V. Marshburn to Marvin M. Pleasant et al, Book 11264, Pages 1434-1438, March 15, 2005; Marvin M. Pleasant et al to Larry V. Marshburn and Lois W. Marshburn, Book 11351, Pages 1479-1483, May 9, 2005; all deeds at Wake County Register of Deeds, Raleigh, North Carolina; George G. Marshburn, *United States Federal Census, 1920, 1930, 1940*; George E. Marshburn, *United States Federal Census, 1930, 1940*; census data at www.ancestry.com.



William & Delia Hollifield House

7020 Lake Myra Road, Wendell

This house was built in 1961 by William Richard Hollifield. Hollifield purchased the land from his brother, Isaac Fletcher Hollifield, in 1945. This sale combined two parcels within the brothers' ancestral farm, owned by their parents, Isaac Pearson Hollifield and Harriet "Hettie" Lowery. Prior to buying his own farmland, William Hollifield rented a farm nearby. Hollifield was married to Delia Mae Strickland, and they had ten children who inherited the property in the 1970s.⁴

William Hollifield also owned significant acreage to the east and south of this house, which he later subdivided and sold. The resulting neighborhood of mid-century homes is accessed by Kelly Lane and Ada Drive (see Hollifield Farm Houses, pages 11-12, and Hollifield-Watson Farm, page 13). The original property was known as the W.R. Hollifield Farm, but the property at 7020 Lake Myra Road is all that remains in Hollifield ownership.

The house is located at the corner of Lake Myra Road and Kelly Lane near the northern boundary of the Turnipseed Preserve. The one-story, side-gable house is in fair condition and is partially obscured by large shade trees on the front lawn. The east end of the house has a small recessed porch with a decorative gable supported by turned posts, and the west end of the house has a matching front-facing gable on a small addition. A gable-end caport facing Kelly Lane to the west has been enclosed and vinyl siding has been added. A wellhouse and small shed are located adjacent to the house.

The house is not eligible for nomination to the National Register of Historic Places. It is not associated with a significant historic event or person, it does not retain distinctive architectural characteristics, it is unlikely to yield important archaeological information, and material integrity has been compromised by later changes to the building.

⁴ I.F. Hollifield to W.R. Hollifield, Book 912, Page 590, March 16, 1945, Wake County Register of Deeds, Raleigh, North Carolina; Isaac Hollifield, *United States Federal Census, 1910, 1930, 1940*; William Hollifield, *United States Federal Census, 1930, 1940*; census data at www.ancestry.com.



Hollifield Farm Houses

Kelly Lane and Ada Drive, Wendell

Between 1924 and 1945, W.R. Hollifield acquired approximately 150 acres of farmland along Marks Creek on the south side of Lake Myra Road, north of the Turnipseed Nature Preserve. Over the next fifteen years, he subdivided and sold portions of his land, retaining a small homestead at 7020 Lake Myra Road (see William & Delia Hollifield House, page 10). Thirty-six acres was parceled off as a new farm (see Hollifield-Watson Farm, page 13), while another eight houses were built along Kelly Lane and Ada Drive.⁵ Seven of these houses were constructed before 1967 and are assessed here, while the eighth, 7125 Ada Drive, was constructed in 1983 and is therefore outside the period for this study. The houses are typical mid-century vernacular homes in good condition with medium to high material integrity.

1413 Kelly Lane

This one-story, side-gabled house was built in 1945 and retains board and batten siding, two-over-two windows, and an interior chimney. It is oriented north toward the intersection of Kelly Lane and Ada Drive, and has a large, irregularly-shaped lawn. A well and shed are located immediately adjacent to the house.

1425 Kelly Lane

This one-story, triple-A roofed house was built in 1961. It has an asymmetrically-oriented, gabled stoop supported by metal posts, an interior chimney, six-over-six vinyl replacement windows, and vinyl siding. There is an enclosed porch on the north elevation and an exterior chimney on the south elevation. The house is oriented facing west toward Kelly Lane and is sited upon a small hill.

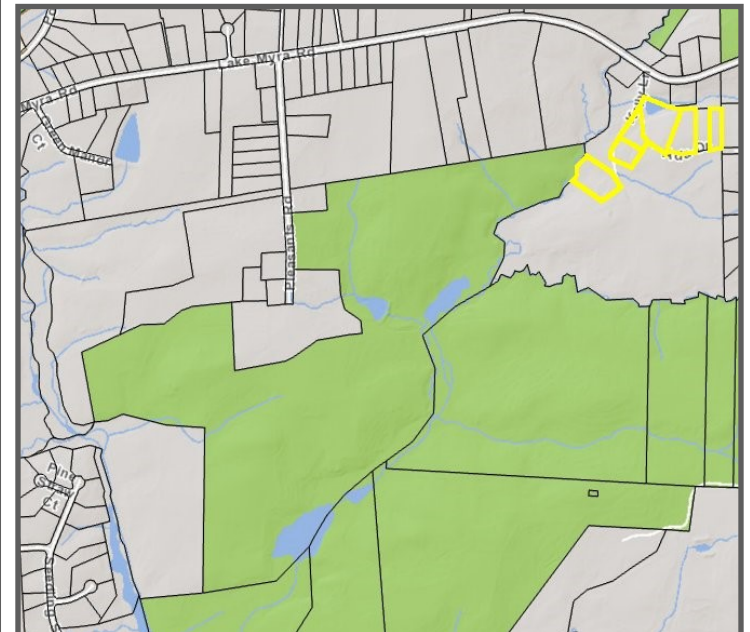
⁵ Luther Strickland to W.R. Hollifield, Book 456, Page 254, December 22, 1924; Trustees of Wake Forest College to W.R. Hollifield, Book 872, Pages 112-114, December 20, 1941; I.F. Hollifield to W.R. Hollifield, Book 912, Page 590, March 16, 1945; all deeds at Wake County Register of Deeds, Raleigh, North Carolina.



1413 Kelly Lane



1425 Kelly Lane



1432 Kelly Lane

This one-story, brick house was built in 1961. It is a side-gabled form with wide shed wings on both front and rear. The house retains a wide exterior chimney, weatherboard in the gables, and Craftsman-style windows. The front elevation faces west rather than north toward Kelly Lane, but it has a small gabled entry to the porch from that side. The rear porch has been partially enclosed.



1432 Kelly Lane

7105 Ada Drive

This one-story, front-gabled house was built in 1940. It has a recessed corner porch with decorative archways supported by turned porch posts. The house has aluminum siding and six-over-six vinyl replacement windows. It sits on a large wooded parcel, nearly two acres, and is sited at the eastern end of the parcel on a small hill.



7105 Ada Drive

7117 Ada Drive

This parcel has two identical houses situated as mirror images. Built in 1946, they are one-story, side-gabled, brick houses with two sets of paired one-over-one vinyl windows on the front façade. The entrances face east and west, away from one another, and feature small shed-roofed stoops supported by metal posts. A small shed addition extends from the rear of both houses, and a shed is located to the rear of the lot.



7117 Ada Drive

7129 Ada Drive

This one-story, side-gabled, brick house was built in 1946 and retains its original paired, two-over-two windows. The door is situated asymmetrically on the front of the house and is accessed by a small, uncovered brick porch. The house is sited on a small, wooded parcel at the termination of Ada Drive. A small shed is located adjacent to the house.



7129 Ada Drive

The Hollifield Farm Houses are not eligible for nomination to the National Register of Historic Places. They are not associated with a significant historic event or person, they do not retain distinctive architectural characteristics, and they are unlikely to yield important archaeological information.

Hollifield-Watson Farm

1440 Kelly Lane, Wendell

The current thirty-six-acre Hollifield-Watson Farm was originally part of the much larger W.R. Hollifield Farm. It was subdivided from the rest of Hollifield's property in 1968, around the same time that several other smaller parcels were subdivided and sold from Hollifield's land holdings (see Hollifield Farm Houses, pages 11-12). This portion was sold to James and Hettie Peele, who in turn sold it to Nancy and Olen Watson in 1971. The farm still operates as Watson Family Farms of Marks Creek.⁶

The farm is centered around a one-story, side-gabled, brick ranch house built in 1950. The front elevation features a decorative gable, and a small recessed porch. Double-hung, vinyl, one-over-one windows are arranged in groups of three on each bay of the front elevation. The house is sited at the termination of Kelly Lane at the top of a small hill. Adjacent to the house are two tobacco barns and a large frame tenant house, both of which likely predate the house and were part of the Hollifield Farm's operations. Agricultural fields and additional agricultural outbuildings extend south and east of the house.

The Hollifield-Watson Farm is not eligible for nomination to the National Register of Historic Places. It is not associated with a significant historic event or person, it does not retain distinctive architectural characteristics, and it is unlikely to yield important archaeological information.

⁶ W.R. Hollifield to James Thomas Peele, Book 1850, Pages 209-210, November 20, 1968; James Thomas Peele to Olen L. Watson, Book 2000, Pages 111-112, June 21, 1971; Olen L. Watson to Watson & Watson of NC, Book 8192, Pages 916-918, November 20, 1998; Watson & Watson of NC to Watson Family Farms of Marks Creek, Book 14811, Pages 1265-1268, June 21, 2012; all deeds at Wake County Register of Deeds, Raleigh, North Carolina.





ATTACHMENT A:

Turnipseed Nature Preserve Tax Map

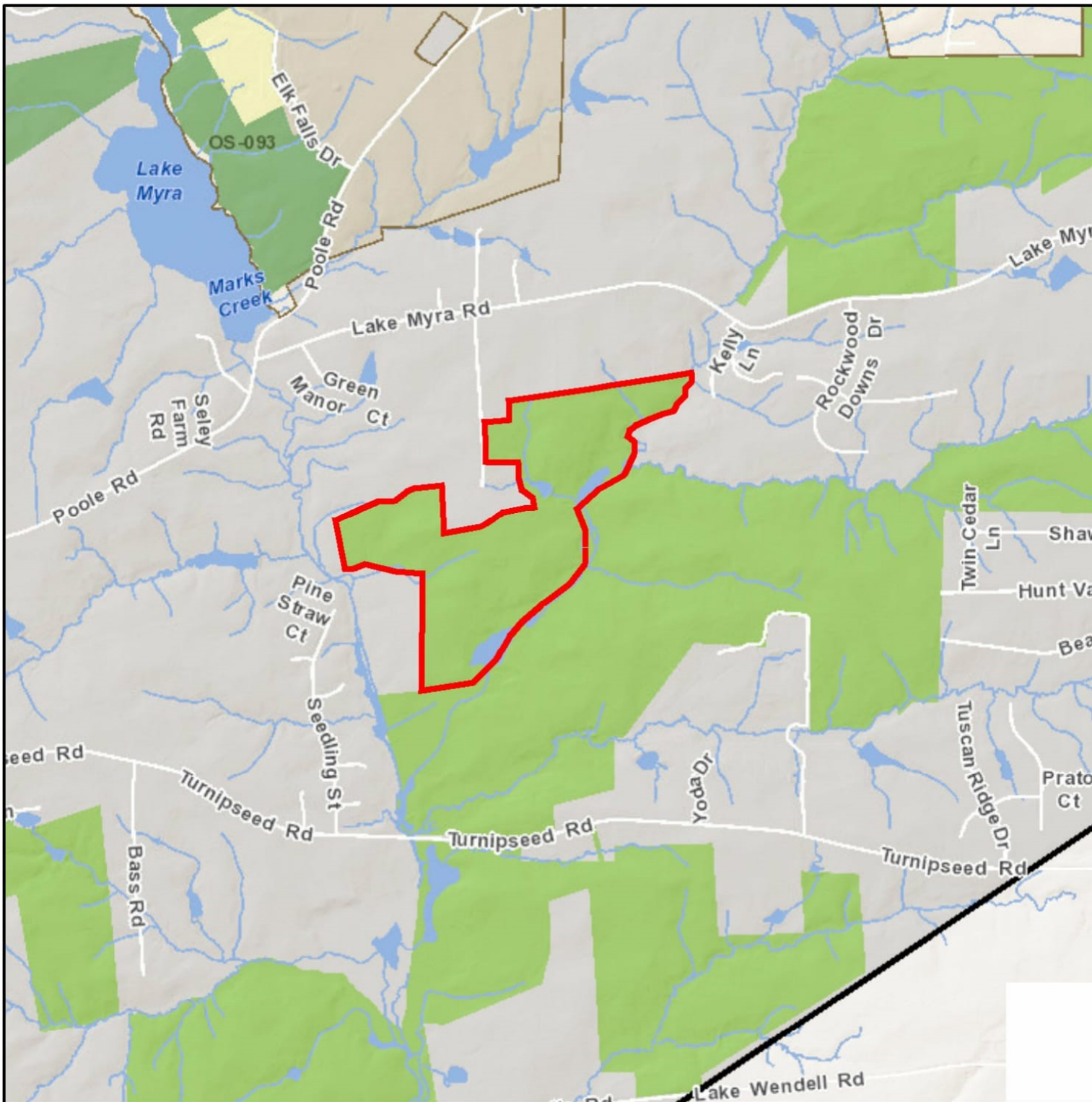
Turnipseed Nature Preserve Phase II Area

PIN: 1772261939
PIN Ext: 000
Real Estate ID: 0055780
Map Name: 1772 01
Owner: WAKE COUNTY
Mail Address 1: WAKE COUNTY ATTORNEY'S OFFICE
Mail Address 2: PO BOX 550
Mail Address 3: RALEIGH NC 27602-0550
Deed Book: 011974
Deed Page: 02305
Deed Date: 05/26/2006
Deed Acres: 114.27
Building Value: \$0
Land Value: \$1,589,880
Total Value: \$1,589,880
Billing Class: Exempt
Description: TR1 GEORGE S PLEASANTS BM2006 -01032
Heat Area: 0
Site Address: 1525 PLEASANTS RD
City:
Township: MARK'S CREEK
Year Built: 0
Sale Price: \$0
Sale Date:
Use Type:
Design Style:
Land Class: EXEMPT
Old Parcel Number: --



0 850 1,700 3,400 ft
1 inch = 1,600 feet

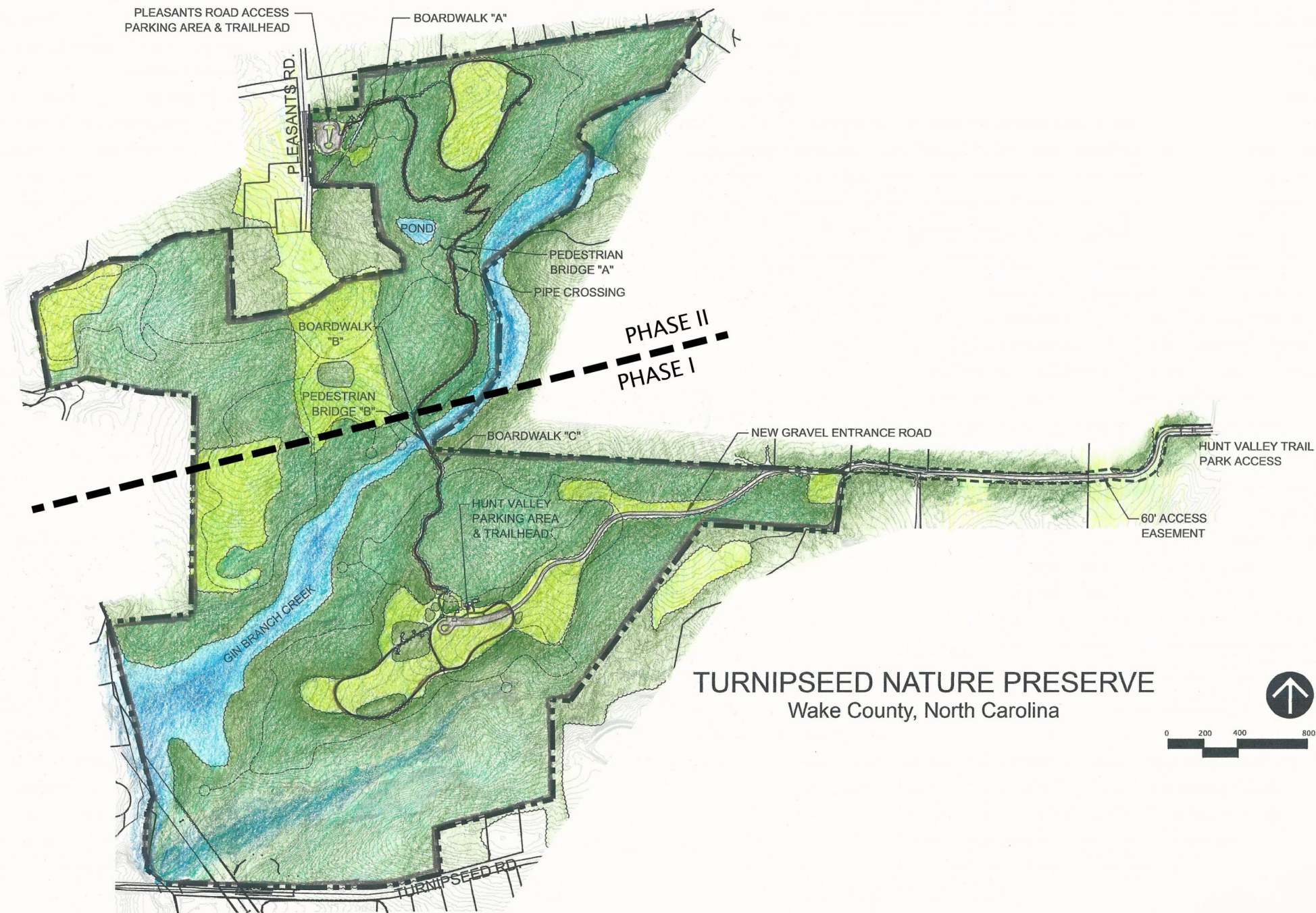
Disclaimer
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ATTACHMENT B:

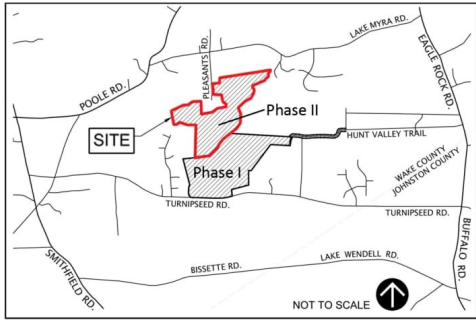
Turnipseed Nature Preserve Phases I & II Rendering





ATTACHMENT C:

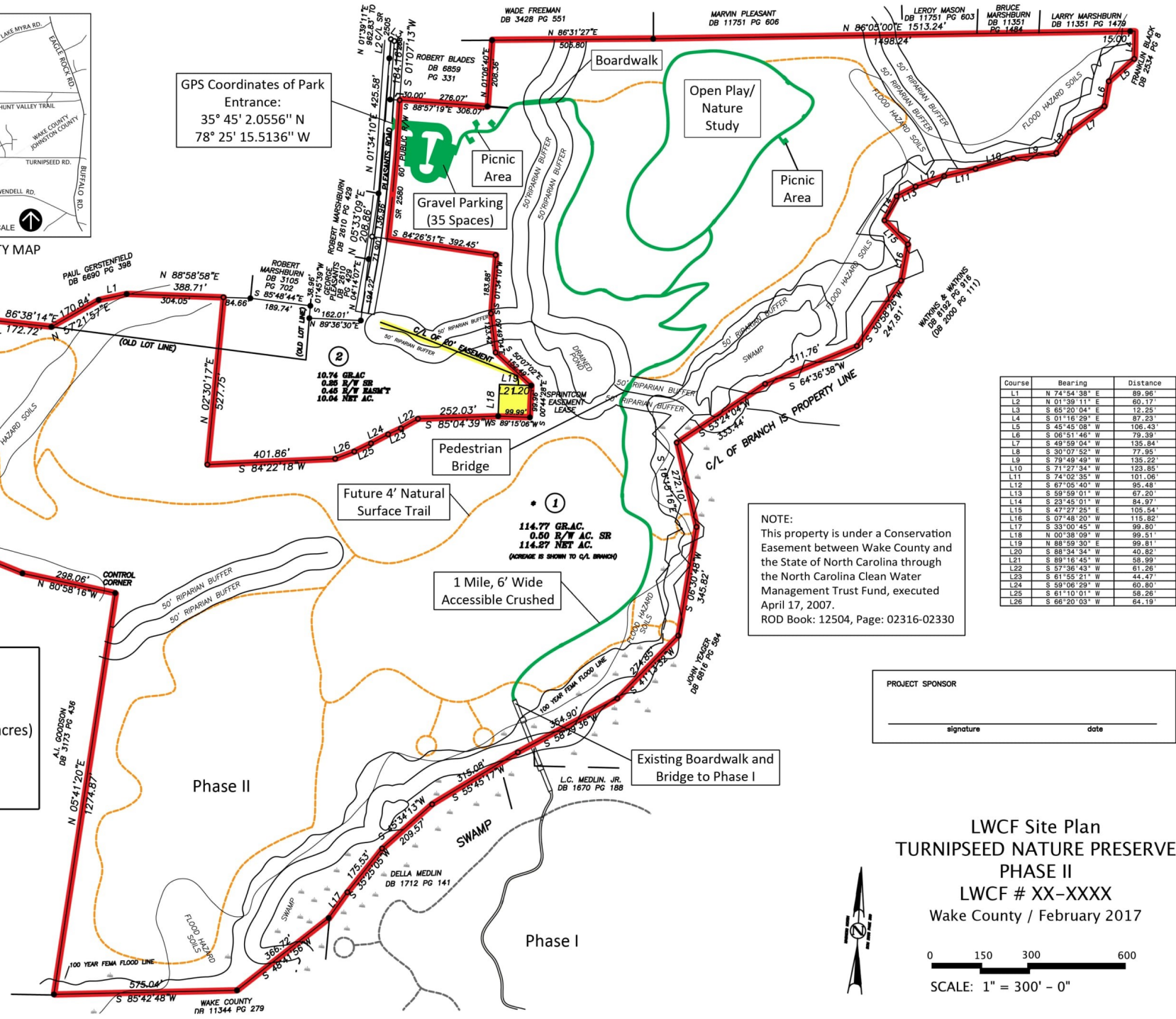
Turnipseed Nature Preserve Land & Water Conservation Fund Phase II Site Plan



TURNPISEED NATURE PRESERVE - VICINITY MAP

Legend:

- GREEN LWCF Grant funded items
- RED Project boundary (114.77 acres)
- ORANGE Future facilities
- YELLOW Easements



Course	Bearing	Distance
L1	N 74°54'38" E	89.96'
L2	N 01°39'11" E	60.17'
L3	S 65°20'04" E	12.25'
L4	S 01°16'29" E	87.23'
L5	S 45°45'08" W	106.43'
L6	S 00°51'46" W	79.39'
L7	S 49°59'04" W	135.84'
L8	S 30°07'52" W	77.95'
L9	S 79°49'49" W	135.22'
L10	S 71°27'34" W	123.65'
L11	S 74°02'35" W	101.06'
L12	S 67°05'40" W	95.48'
L13	S 59°59'01" W	67.20'
L14	S 53°45'01" W	84.97'
L15	S 47°27'25" E	105.54'
L16	S 07°48'20" W	115.82'
L17	S 33°00'45" W	99.80'
L18	N 00°38'09" W	99.51'
L19	N 88°59'30" E	99.81'
L20	S 88°34'34" W	40.82'
L21	S 89°16'45" W	58.99'
L22	S 57°36'43" W	61.26'
L23	S 61°55'21" W	44.47'
L24	S 59°06'29" W	60.80'
L25	S 61°10'01" W	58.28'
L26	S 66°20'03" W	64.19'

NOTE:
This property is under a Conservation Easement between Wake County and the State of North Carolina through the North Carolina Clean Water Management Trust Fund, executed April 17, 2007.
ROD Book: 12504, Page: 02316-02330

PROJECT SPONSOR

_____ signature _____ date



0 150 300 600

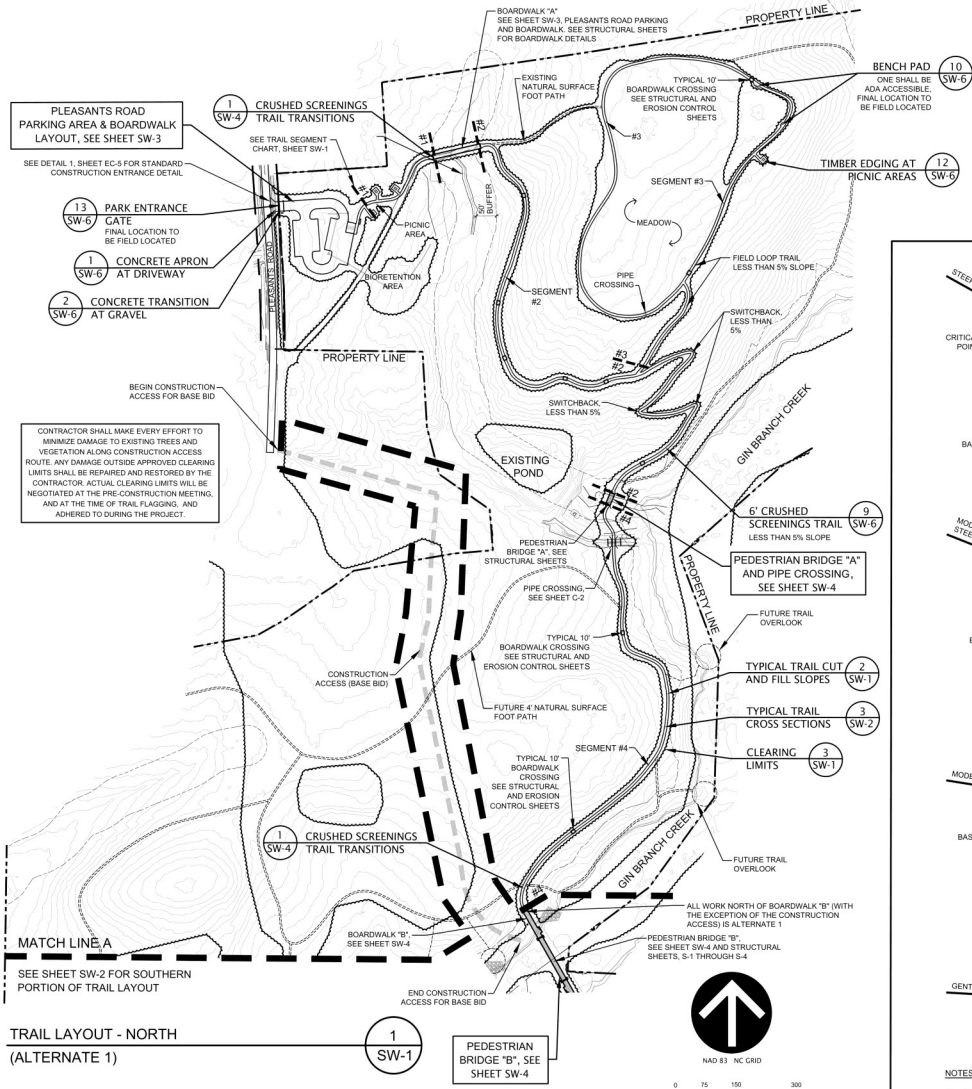
SCALE: 1" = 300' - 0"

LWCF Site Plan
 TURNPISEED NATURE PRESERVE
 PHASE II
 LWCF # XX-XXXX
 Wake County / February 2017



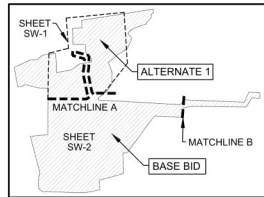
ATTACHMENT D:

Turnipseed Nature Preserve Trail Layout Site Plan



TRAIL LAYOUT - NORTH
(ALTERNATE 1)

- TRAIL LAYOUT:**
1. THE CENTERLINE OF THE TRAIL IS SHOWN ON THE PLANS. THE TRAIL WIDTH IS 6' WITH A 2" SHOULDER ON EACH SIDE. DITCHES AND DRAINAGE PLANS ARE SHOWN ON EROSION CONTROL SHEETS.
 2. MAXIMUM LONGITUDINAL SLOPE ON LANDINGS IS 2%. MAXIMUM LONGITUDINAL SLOPE ON ALL TRAILS AND AT ALL TRAIL HEADS IS LESS THAN 5%.
 3. MAXIMUM CROSS SLOPE ON TRAILS, LANDINGS, AND BOARDWALKS IS 2%.
 4. LOW HANGING OBJECTS OR BRANCHES THAT ARE LOWER THAN 86 INCHES ABOVE THE TRAIL SURFACE ARE NOT ALLOWED. VERTICAL CLEARANCE OF THE TRAIL SHALL NOT BE LESS THAN 86".
 5. FINAL TRAIL ALIGNMENT INCLUDING LOCATIONS OF 10' BOARDWALK CROSSINGS TO BE DETERMINED IN THE FIELD USING MAXIMUM SLOPES OF FIELD CONDITIONS, AND AVOIDING MAJOR TREE REMOVAL, STEEP SLOPES AND ROCK OUTCROPS. THE CONTRACTOR SHALL LAYOUT AND FLAG THE TRAIL FOR REVIEW BY THE LANDSCAPE ARCHITECT AND THE OWNER.
 6. TIMBER EDGING SHALL BE INSTALLED AT DOWNHILL STEEP SECTIONS OF THE TRAIL, SEE DETAIL 3, SHEET SW-2.



TRAIL SEGMENT CHART (ALTERNATE 1):

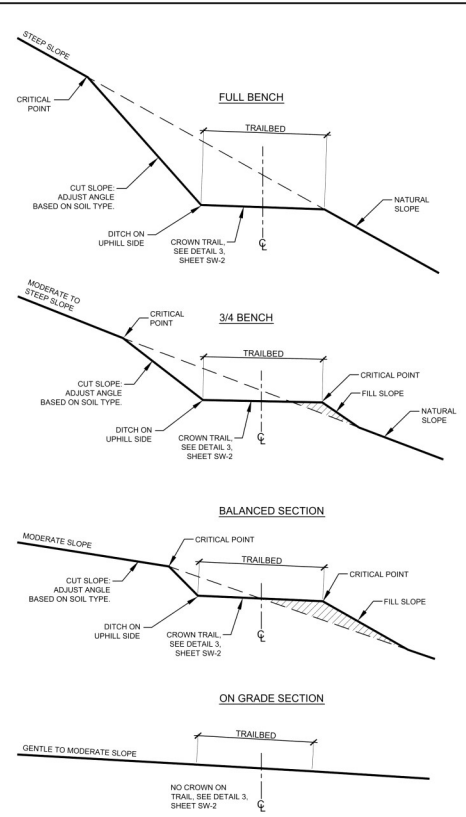
TRAIL SEGMENT	SURFACE TYPE	WIDTH	APPROXIMATE LENGTH	# OF 10' BOARDWALKS AND PIPE CROSSINGS	NOTES
#1	CRUSHED SCREENINGS	6'	225'	0	FROM END OF CONCRETE SIDEWALK AT PLEASANTS ROAD PARKING TO BEGINNING OF BOARDWALK "A"
#2	CRUSHED	6'	1,785'	6 BOARDWALKS	FROM END OF BOARDWALK "A" TO BEGINNING OF PEDESTRIAN BRIDGE "A". SWITCHBACKS WILL BE NECESSARY TO MAINTAIN LESS THAN 5% SLOPE.
#3	CRUSHED SCREENINGS	6'	2,155'	2 BOARDWALKS, 1 SMALL PIPE CROSSING	FIELD LOOP TRAIL
#4	CRUSHED SCREENINGS	6'	1,220'	2 BOARDWALKS, 1 LARGE PIPE CROSSING	FROM END OF PEDESTRIAN BRIDGE "A" TO BEGINNING OF BOARDWALK "B"

SITE AMENITIES FOR FIELD LOOP PICNIC AREA (ALTERNATE 1)	QTY.
8" PILOT ROCK UT SERIES SIDE ACCESSIBLE PICNIC TABLE - USING RECYCLED PLASTIC, HOT DIPPED GALVANIZED FRAME, COLOR TBD BY OWNER*	1
6" PILOT ROCK MULTI-PEDESTAL CONTOUR PARK BENCH WITH RECYCLED PLASTIC TIMBERS AND HOT DIPPED GALVANIZED FRAME - EMBEDDED MOUNT, COLOR TBD BY OWNER	2

LEGEND:

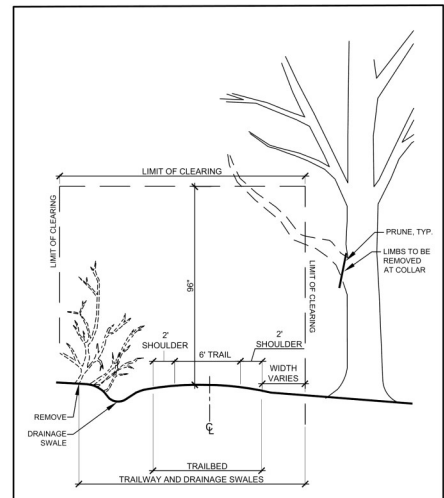
- BRIDGE
- BOARDWALK
- PROPOSED 6' WIDE CRUSHED SCREENINGS TRAIL
- FUTURE NATURAL SURFACE TRAILS AND OVERLOOKS

ALL WORK ON THIS PAGE IS ALTERNATE 1



- NOTES:**
1. USE 3/4 BENCH CUT WHEREVER POSSIBLE.
 2. IF NATIVE MATERIAL CONSISTS OF LARGE AMOUNTS OF TOPSOIL OR ORGANIC MATTER, IT SHOULD BE REMOVED AND SET ASIDE FOR LATER USE AS A COVER AND PLANTING SURFACE FOR EXPOSED SUBSOIL.
 3. MAINTAIN CROSS SLOPE SO THAT WATER RUNS ACROSS INSTEAD OF DOWN TRAIL. 2% MAX. CROSS SLOPE.
 4. SELECT TRAIL ALIGNMENT TO PROVIDE A ROLLING GRADE OF CRESTS AND DIPS IN ORDER TO MINIMIZE WATER FLOW ALONG TRAIL. SEE CIVIL SHEETS FOR DRAINAGE.
 5. REMOVE ANY SHARP OR LOOSE STONES.
 6. ROUND OFF AND COMPACT CRITICAL POINTS WHERE SIDE SLOPES MEET EXISTING GRADES IN ORDER TO MINIMIZE EROSION OF CUT AND FILL SLOPES.
 7. BROADCAST EXCESS CUT SOIL DOWNHILL TO AVOID CREATING A BERM AT TRAIL EDGE. 6" DEPTH MAX. AVOID FILLING AT SENSITIVE VEGETATION.
 8. SEED OR MULCH TO STABILIZE CUT AND FILL AREAS.
 9. CUT/FILL SLOPES NOT TO EXCEED 3:1.

TYPICAL TRAIL CUT AND FILL SLOPES
Not to Scale



- NOTES:**
1. SELECT TRAIL ALIGNMENT TO AVOID ANY LARGE OR SIGNIFICANT TREES, STEEP SLOPES AND ROCK OUTCROPS. FINAL TRAIL CENTERLINE TO BE FLAGGED OR STAKED IN THE FIELD FOR APPROVAL BY LANDSCAPE ARCHITECT AND OWNER PRIOR TO CONSTRUCTION.
 2. VEGETATION SHOULD BE CLEARED TO A HEIGHT OF 86" ABOVE TRAILBED. BRANCHES THAT COULD RESTRICT TRAIL USE WHEN WEIGHTED DOWN WITH RAIN OR SNOW SHOULD ALSO BE REMOVED.
 3. AN OVERHEAD CANOPY OF BRANCHES SHOULD REMAIN TO SLOW THE GROWTH OF GRASSES OR WEEDS THAT THRIVE IN SUNLIGHT.
 4. VERIFY REMOVAL AND/OR PRUNING OF LARGE TREES ON TRAIL WITH OWNER PRIOR TO CONSTRUCTION.

CLEARING LIMITS
Not to Scale

Susan Hatchell
Landscape Architecture, PLLC
711 W. North Street, Raleigh, NC 27603
p: 919-838-9600 f: 919-838-9700

Trail Layout - North

Turnipseed Nature Preserve
Wake County, NC

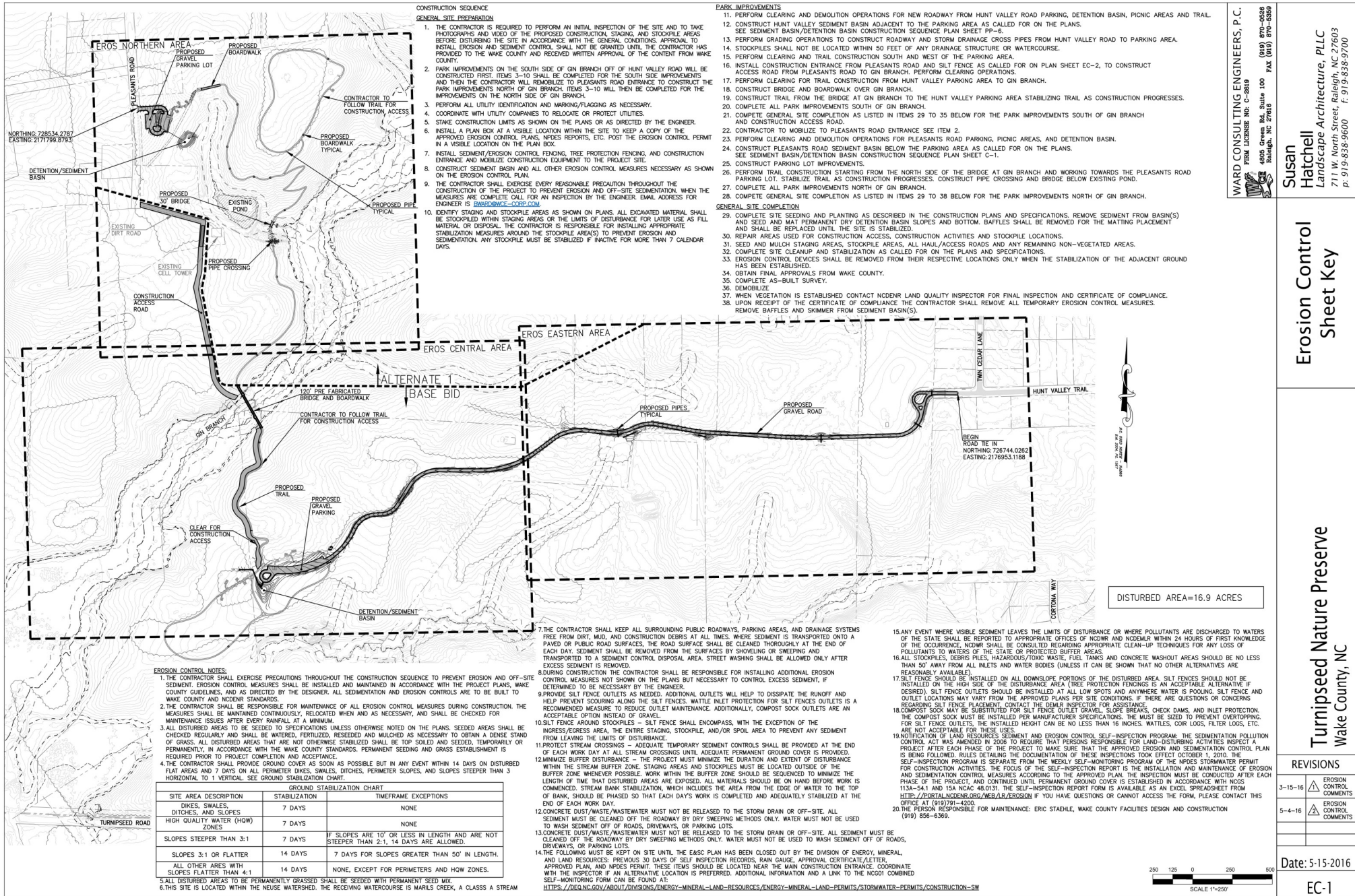
REVISIONS

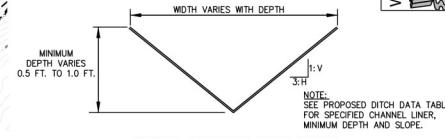
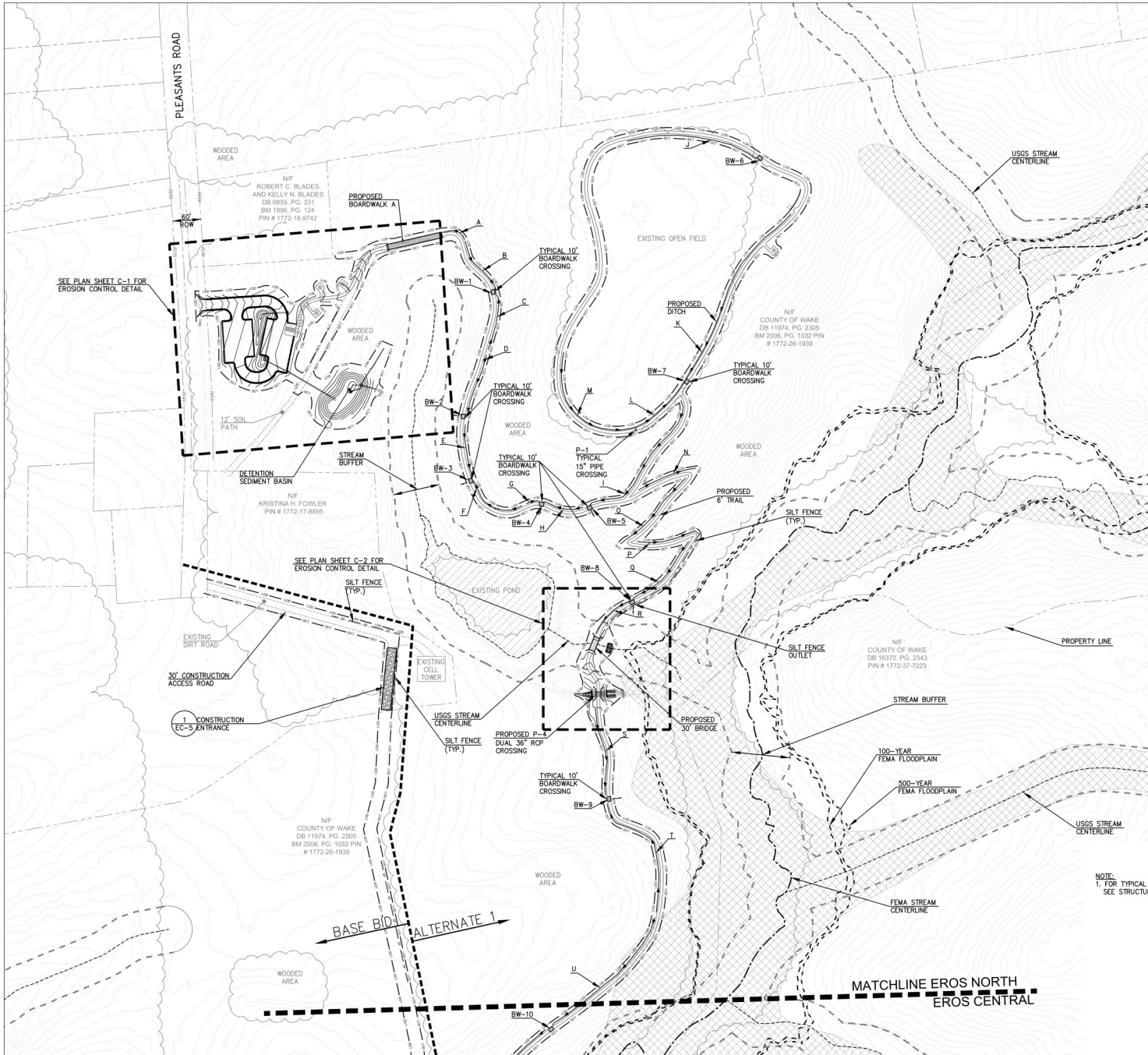
Date: 5/15/16
SW-1



ATTACHMENT E:

Turnipseed Nature Preserve Erosion Control Site Plans





Proposed Pipe Data Table							
Pipe Label	Pipe Diameter (in)	Pipe Material	Number of Pipes	Minimum Slope (%)	Pipe Length (ft)	10-year Design Flow (cfs)	Full Flow Velocity (fps)
P-1	15	RCP	1	1.0%	8	1	3.81
P-4	36	RCP	2	10.0%	32	37.5	29.82

Proposed Boardwalk Data Table							
Boardwalk Label	10-year Design Flow (cfs)	Minimum Clearance Between Ground and Bottom Chord (in)	Natural Draw Slope (%)	Channel Type (A or B)	Velocity (fps)	Shear Stress (lb/ft ²)	Channel Liner Required Under Boardwalk
BW-1	4.0	18	0.12	A	8.21	1.35	Class B Stone
BW-2	1.2	18	0.087	A	5.2	0.65	Class B Stone
BW-3	1.2	18	0.105	A	5.57	0.72	Class B Stone
BW-4	1.3	18	0.16	B	6.49	1.40	Class B Stone
BW-5	2.3	18	0.182	B	9.4	1.82	Class B Stone
BW-6	2.0	18	0.038	A	4.47	0.40	Class B Stone
BW-7	5.6	18	0.051	A	6.57	0.80	Class B Stone
BW-8	0.6	18	0.091	A	4.29	0.45	Class B Stone
BW-9	15.9	18	0.054	B	10.42	1.58	Class B Stone

NATURAL CHANNEL TYPE A: 10 FT. TOP WIDTH, 1 FT. BOTTOM WIDTH, 18 IN. DEEP
NATURAL CHANNEL TYPE B: 3 FT. TOP WIDTH, 1 FT. BOTTOM WIDTH, 18 IN. DEEP

Proposed Ditch Data Table							
Ditch Label	Slope (%)	Depth (ft)	Top Width (ft)	Side Slopes (ft/ft)	10-year Design Flow (cfs)	Flow Velocity (fps)	Shear Stress (lb/ft ²)
A	12%	0.5	3.841V	0.29	1.7	0.8	Class B Stone
B	2%	1	6.3H1V	2.57	4.2	0.3	Curlex Matting
C	2%	0.5	3.841V	1.46	3.6	0.3	Curlex Matting
D	2%	0.5	3.841V	1.22	3.3	0.2	Curlex Matting
E	3%	0.5	3.841V	0.84	3.6	0.3	Curlex Matting
F	2%	0.5	3.841V	0.41	2.6	0.1	Curlex Matting
G	3%	0.5	3.841V	0.62	3.3	0.3	Curlex Matting
H	5%	0.5	3.841V	0.66	3.8	0.3	Curlex Matting
I	2%	1	6.3H1V	2.26	3.9	0.3	Curlex Matting
J	2%	1	6.3H1V	1.96	3.7	0.3	Curlex Matting
K	2%	1	6.3H1V	4.63	4.2	0.3	Curlex Matting
L	3%	0.5	3.841V	0.92	3.4	0.2	Curlex Matting
M	3%	0.5	3.841V	0.97	3.6	0.3	Curlex Matting
N	4%	0.5	3.841V	0.37	3.1	0.2	Curlex Matting
O	5%	0.5	3.841V	0.50	3.5	0.3	Curlex Matting
P	5%	0.5	3.841V	0.37	3.4	0.3	Curlex Matting
Q	6%	0.5	3.841V	0.60	4.2	0.4	Curlex Matting
R	3%	1	6.3H1V	2.92	4.6	0.4	Curlex Matting
S	2%	1	6.3H1V	8.90	5.4	0.6	Curlex Matting
T	2%	1	6.3H1V	5.12	4.9	0.4	Curlex Matting
U	1%	1	6.3H1V	3.16	3.1	0.2	Curlex Matting

- LEGEND
- WAKE COUNTY GS CONTOURS
 - SURVEYED CONTOURS
 - PROPOSED CONTOURS
 - PROPERTY BOUNDARY
 - EXISTING WOODED AREA
 - FEMA STREAM CENTERLINE
 - USGS STREAM CENTERLINE
 - FEMA 100-YEAR FLOODPLAIN
 - FEMA 500-YEAR FLOODPLAIN
 - 50' STREAM BUFFER
 - PROPOSED ACCESS AND UTILITY
 - FLOOD PRONE SOILS
 - LIMITS OF DISTURBANCE
 - SILT FENCE
 - PROPOSED DITCH
 - PROPOSED BOARDWALK CROSSING

NOTE:
1. FOR TYPICAL BOARDWALK CROSSING
SEE STRUCTURAL PLAN SHEETS.



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Erosion Control
Northern Area

Turnipseed Nature Preserve
Wake County, NC

REVISIONS	
3-15-16	EROSION CONTROL COMMENTS
5-4-16	EROSION CONTROL COMMENTS

Date: 5-15-2016

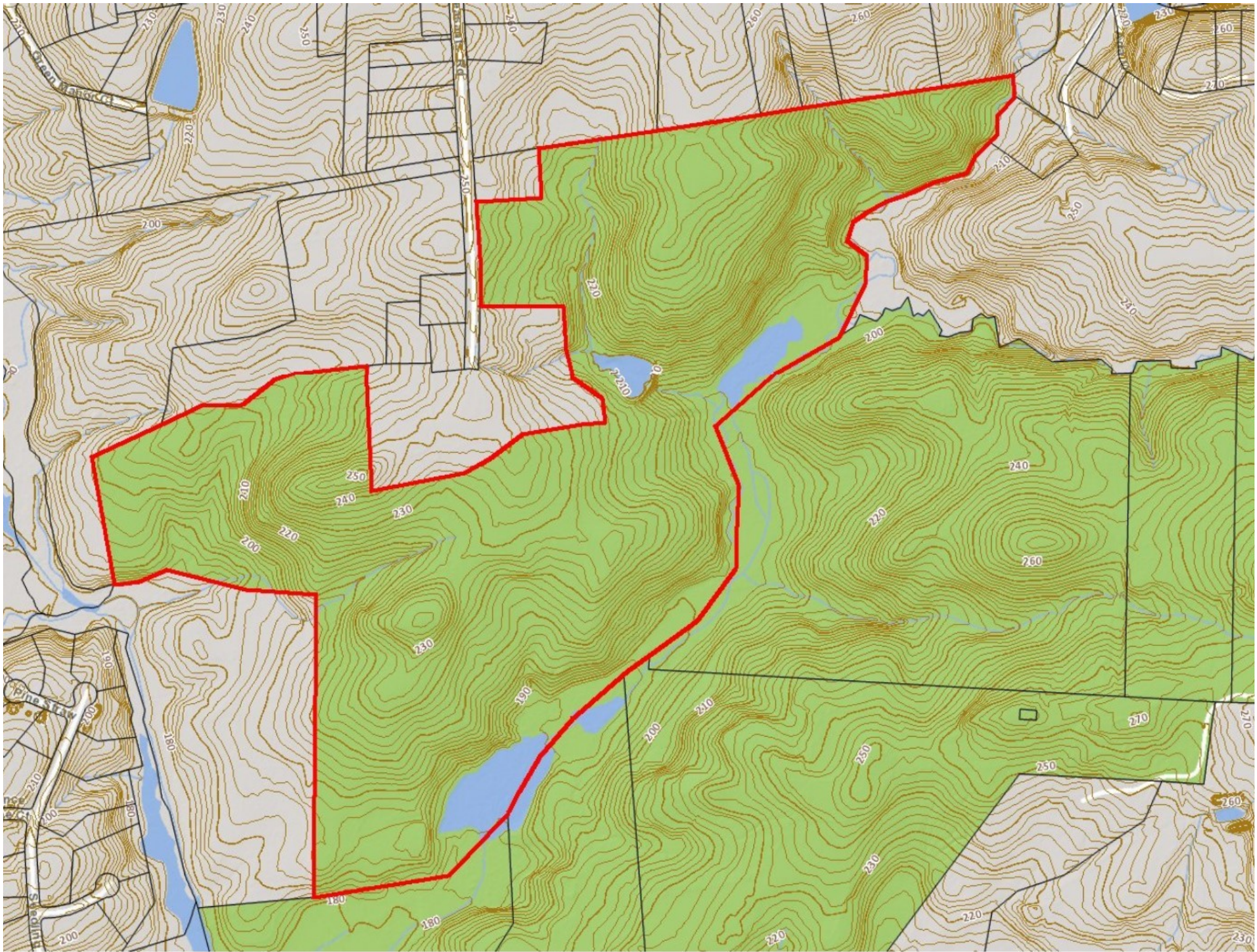
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ATTACHMENT F:

Turnipseed Nature Preserve Topographical Map

(Portion of Clayton Quad from Raleigh & Wake County iMaps)





ATTACHMENT G:

Turnipseed Nature Preserve Topographical Map (Portion of Clayton Quad from USGS)

