

16083

**U.S. ARMY CORPS OF ENGINEERS
WILMINGTON DISTRICT**

Action Id. SAW-1990-30036 County: New Hanover U.S.G.S. Quad: NC-Wilmington

NOTIFICATION OF JURISDICTIONAL DETERMINATION

Property Owner: Joseph Taylor
Echo Farms, LLC
CN 4000
Cranbury, NJ 08512

Agent: Kim Williams
Land Management Group, Inc.
3805 Wrightsville Avenue, Suite 15
Wilmington, NC 28403

Size (acres)	<u>139.16</u>	Nearest Town	<u>Wilmington</u>
Nearest Waterway	<u>Barnards Creek</u>	River Basin	<u>Cape Fear</u>
USGS HUC	<u>03030005</u>	Coordinates	Latitude: <u>34.1629</u> Longitude: <u>-77.9197</u>

Location description: The review area is comprised of parcel R07006-002-001-000, located at 4114 Echo Farms Road, known as Echo Farms Golf and Country Club, near the city of Wilmington, New Hanover County, North Carolina.

Indicate Which of the Following Apply:

A. Preliminary Determination

- There are waters, including wetlands, on the above described project area, that may be subject to Section 404 of the Clean Water Act (CWA)(33 USC § 1344) and/or Section 10 of the Rivers and Harbors Act (RHA) (33 USC § 403). The waters, including wetlands, have been delineated, and the delineation has been verified by the Corps to be sufficiently accurate and reliable. Therefore this preliminary jurisdiction determination may be used in the permit evaluation process, including determining compensatory mitigation. For purposes of computation of impacts, compensatory mitigation requirements, and other resource protection measures, a permit decision made on the basis of a preliminary JD will treat all waters and wetlands that would be affected in any way by the permitted activity on the site as if they are jurisdictional waters of the U.S. This preliminary determination is not an appealable action under the Regulatory Program Administrative Appeal Process (Reference 33 CFR Part 331). However, you may request an approved JD, which is an appealable action, by contacting the Corps district for further instruction.
- There are wetlands on the above described property, that may be subject to Section 404 of the Clean Water Act (CWA)(33 USC § 1344) and/or Section 10 of the Rivers and Harbors Act (RHA) (33 USC § 403). However, since the waters, including wetlands, have not been properly delineated, this preliminary jurisdiction determination may not be used in the permit evaluation process. Without a verified wetland delineation, this preliminary determination is merely an effective presumption of CWA/RHA jurisdiction over all of the waters, including wetlands, at the project area, which is not sufficiently accurate and reliable to support an enforceable permit decision. We recommend that you have the waters of the U.S. on your property delineated. As the Corps may not be able to accomplish this wetland delineation in a timely manner, you may wish to obtain a consultant to conduct a delineation that can be verified by the Corps.

B. Approved Determination

- There are Navigable Waters of the United States within the above described property subject to the permit requirements of Section 10 of the Rivers and Harbors Act (RHA) (33 USC § 403) and Section 404 of the Clean Water Act (CWA)(33 USC § 1344). Unless there is a change in law or our published regulations, this determination may be relied upon for a period not to exceed five years from the date of this notification.

#FOLDER DA NUMBER#

There are waters of the U.S., including wetlands, on the above described project area subject to the permit requirements of Section 404 of the Clean Water Act (CWA) (33 USC § 1344). Unless there is a change in the law or our published regulations, this determination may be relied upon for a period not to exceed five years from the date of this notification.

We recommend you have the waters of the U.S. on your property delineated. As the Corps may not be able to accomplish this wetland delineation in a timely manner, you may wish to obtain a consultant to conduct a delineation that can be verified by the Corps.

The waters of the U.S., including wetlands, on your project area have been delineated and the delineation has been verified by the Corps. If you wish to have the delineation surveyed, the Corps can review and verify the survey upon completion. Once verified, this survey will provide an accurate depiction of all areas subject to CWA and/or RHA jurisdiction on your property which, provided there is no change in the law or our published regulations, may be relied upon for a period not to exceed five years.

The waters of the U.S., including wetlands, have been delineated and surveyed and are accurately depicted on the plat signed by the Corps Regulatory Official identified below on _____. Unless there is a change in the law or our published regulations, this determination may be relied upon for a period not to exceed five years from the date of this notification.

There are no waters of the U.S., to include wetlands, present on the above described project area which are subject to the permit requirements of Section 404 of the Clean Water Act (33 USC 1344). Unless there is a change in the law or our published regulations, this determination may be relied upon for a period not to exceed five years from the date of this notification.

The property is located in one of the 20 Coastal Counties subject to regulation under the Coastal Area Management Act (CAMA). You should contact the Division of Coastal Management in Morehead City, NC, at (252) 808-2808 to determine their requirements.

Placement of dredged or fill material within waters of the US, including wetlands, without a Department of the Army permit may constitute a violation of Section 301 of the Clean Water Act (33 USC § 1311). Placement of dredged or fill material, construction or placement of structures, or work within navigable waters of the United States without a Department of the Army permit may constitute a violation of Sections 9 and/or 10 of the Rivers and Harbors Act (33 USC § 401 and/or 403). If you have any questions regarding this determination and/or the Corps regulatory program, please contact Brennan Dooley at 910-251-4694 or Brennan.J.Dooley@usace.army.mil.

C. Basis For Determination: Please see the attached Approved Jurisdictional Determination Form. The enclosed survey titled "Wetland Map Prepared for Echo Farms" dated June 8, 2017, accurately depicts the extent of jurisdictional waters subject to jurisdiction under Section 404 of the Clean Water Act. This determination supersedes the previous determination issued on November 18, 2015.

D. Remarks:

E. Attention USDA Program Participants

This delineation/determination has been conducted to identify the limits of Corps' Clean Water Act jurisdiction for the particular site identified in this request. The delineation/determination may not be valid for the wetland conservation provisions of the Food Security Act of 1985. If you or your tenant are USDA Program participants, or anticipate participation in USDA programs, you should request a certified wetland determination from the local office of the Natural Resources Conservation Service, prior to starting work.

F. Appeals Information (This information applies only to approved jurisdictional determinations as indicated in B. above)

This correspondence constitutes an approved jurisdictional determination for the above described site. If you object to this determination, you may request an administrative appeal under Corps regulations at 33 CFR Part 331. Enclosed you will find a Notification of Appeal Process (NAP) fact sheet and request for appeal (RFA) form. If you request to appeal this determination you must submit a completed RFA form to the following address:

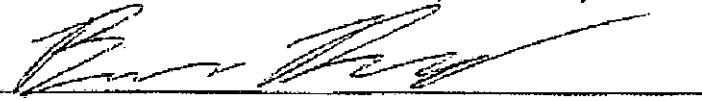
#FOLDER DA NUMBER#

US Army Corps of Engineers
South Atlantic Division
Attn: Jason Steele, Review Officer
60 Forsyth Street SW, Room 10M15
Atlanta, Georgia 30303-8801

In order for an RFA to be accepted by the Corps, the Corps must determine that it is complete, that it meets the criteria for appeal under 33 CFR part 331.5, and that it has been received by the Division Office within 60 days of the date of the NAP. Should you decide to submit an RFA form, it must be received at the above address by 10/15/2017.

****It is not necessary to submit an RFA form to the Division Office if you do not object to the determination in this correspondence.****

Corps Regulatory Official:



Date: August 15, 2017 Expiration Date: August 15, 2022

**NOTIFICATION OF ADMINISTRATIVE APPEAL OPTIONS AND PROCESS AND
REQUEST FOR APPEAL**

Applicant: Joseph Taylor, Echo Farm LLC	File Number: SAW-1990-30036	Date: August 15, 2017
Attached is:		See Section below
<input type="checkbox"/> INITIAL PROFFERED PERMIT (Standard Permit or Letter of permission)		A
<input type="checkbox"/> PROFFERED PERMIT (Standard Permit or Letter of permission)		B
<input type="checkbox"/> PERMIT DENIAL		C
<input checked="" type="checkbox"/> APPROVED JURISDICTIONAL DETERMINATION		D
<input type="checkbox"/> PRELIMINARY JURISDICTIONAL DETERMINATION		E

SECTION I - The following identifies your rights and options regarding an administrative appeal of the above decision. Additional information may be found at <http://www.usace.army.mil/Missions/CivilWorks/RegulatoryProgramandPermits.aspx> or Corps regulations at 33 CFR Part 331.

A: INITIAL PROFFERED PERMIT: You may accept or object to the permit.

- **ACCEPT:** If you received a Standard Permit, you may sign the permit document and return it to the district engineer for final authorization. If you received a Letter of Permission (LOP), you may accept the LOP and your work is authorized. Your signature on the Standard Permit or acceptance of the LOP means that you accept the permit in its entirety, and waive all rights to appeal the permit, including its terms and conditions, and approved jurisdictional determinations associated with the permit.
- **OBJECT:** If you object to the permit (Standard or LOP) because of certain terms and conditions therein, you may request that the permit be modified accordingly. You must complete Section II of this form and return the form to the district engineer. Your objections must be received by the district engineer within 60 days of the date of this notice, or you will forfeit your right to appeal the permit in the future. Upon receipt of your letter, the district engineer will evaluate your objections and may: (a) modify the permit to address all of your concerns, (b) modify the permit to address some of your objections, or (c) not modify the permit having determined that the permit should be issued as previously written. After evaluating your objections, the district engineer will send you a proffered permit for your reconsideration, as indicated in Section B below.

B: PROFFERED PERMIT: You may accept or appeal the permit

- **ACCEPT:** If you received a Standard Permit, you may sign the permit document and return it to the district engineer for final authorization. If you received a Letter of Permission (LOP), you may accept the LOP and your work is authorized. Your signature on the Standard Permit or acceptance of the LOP means that you accept the permit in its entirety, and waive all rights to appeal the permit, including its terms and conditions, and approved jurisdictional determinations associated with the permit.
- **APPEAL:** If you choose to decline the proffered permit (Standard or LOP) because of certain terms and conditions therein, you may appeal the declined permit under the Corps of Engineers Administrative Appeal Process by completing Section II of this form and sending the form to the division engineer. This form must be received by the division engineer within 60 days of the date of this notice.

C: PERMIT DENIAL: You may appeal the denial of a permit under the Corps of Engineers Administrative Appeal Process by completing Section II of this form and sending the form to the division engineer. This form must be received by the division engineer within 60 days of the date of this notice.

D: APPROVED JURISDICTIONAL DETERMINATION: You may accept or appeal the approved JD or provide new information.

- **ACCEPT:** You do not need to notify the Corps to accept an approved JD. Failure to notify the Corps within 60 days of the date of this notice, means that you accept the approved JD in its entirety, and waive all rights to appeal the approved JD.
- **APPEAL:** If you disagree with the approved JD, you may appeal the approved JD under the Corps of Engineers Administrative Appeal Process by completing Section II of this form and sending the form to the district engineer. This form must be received by the division engineer within 60 days of the date of this notice.

#FOLDER DA NUMBER#

E: PRELIMINARY JURISDICTIONAL DETERMINATION: You do not need to respond to the Corps regarding the preliminary JD. The Preliminary JD is not appealable. If you wish, you may request an approved JD (which may be appealed), by contacting the Corps district for further instruction. Also you may provide new information for further consideration by the Corps to reevaluate the JD.

SECTION II: REQUEST FOR APPEAL or OBJECTIONS TO AN INITIAL PROFFERED PERMIT

REASONS FOR APPEAL OR OBJECTIONS: (Describe your reasons for appealing the decision or your objections to an initial proffered permit in clear concise statements. You may attach additional information to this form to clarify where your reasons or objections are addressed in the administrative record.)

ADDITIONAL INFORMATION: The appeal is limited to a review of the administrative record, the Corps memorandum for the record of the appeal conference or meeting, and any supplemental information that the review officer has determined is needed to clarify the administrative record. Neither the appellant nor the Corps may add new information or analyses to the record. However, you may provide additional information to clarify the location of information that is already in the administrative record.

POINT OF CONTACT FOR QUESTIONS OR INFORMATION:

If you have questions regarding this decision and/or the appeal process you may contact:

District Engineer, Wilmington Regulatory Division,
Attn: Brennan Dooley
69 Darlington Avenue
Wilmington, NC 28403

If you only have questions regarding the appeal process you may also contact:

Mr. Jason Steele, Administrative Appeal Review Officer
CESAD-PDO
U.S. Army Corps of Engineers, South Atlantic Division
60 Forsyth Street, Room 10M15
Atlanta, Georgia 30303-8801
Phone: (404) 562-5137

RIGHT OF ENTRY: Your signature below grants the right of entry to Corps of Engineers personnel, and any government consultants, to conduct investigations of the project site during the course of the appeal process. You will be provided a 15 day notice of any site investigation, and will have the opportunity to participate in all site investigations.

Date:

Telephone number:

Signature of appellant or agent.

For appeals on Initial Proffered Permits send this form to:

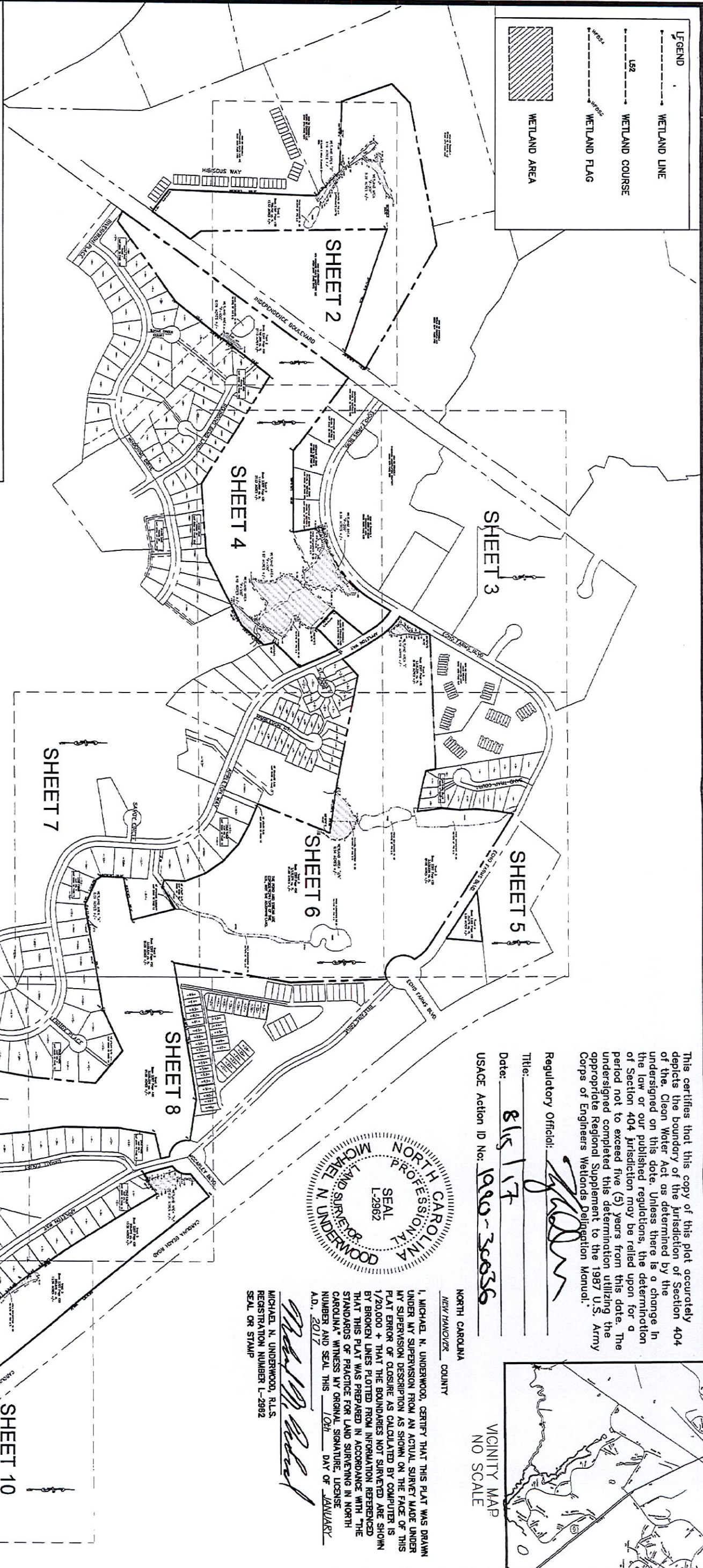
District Engineer, Wilmington Regulatory Division, #PM_FULLNAME#, #PM_FIELD_OFFICE_ADDRESS#

For Permit denials, Proffered Permits and approved Jurisdictional Determinations send this form to:

Division Engineer, Commander, U.S. Army Engineer Division, South Atlantic, Attn: Mr. Jason Steele,
Administrative Appeal Officer, CESAD-PDO, 60 Forsyth Street, Room 10M15, Atlanta, Georgia 30303-8801
Phone: (404) 562-5137

LEGEND

- WETLAND LINE
- WETLAND COURSE
- WETLAND FLAG
- ▨ WETLAND AREA



WETLAND MAP PREPARED FOR:

ECHO FARMS

CITY OF WILMINGTON NEW HANOVER COUNTY
NORTH CAROLINA

CLIENT:
Echo Farms LLC
C/O Matrix Development Group
3 Carline Drive
Morris Township, NJ 08851

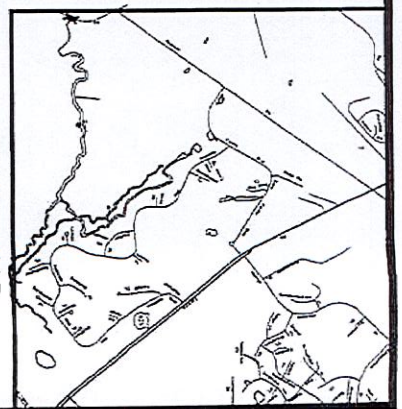
MICHAEL UNDERWOOD and ASSOCIATES, PA
102 CINEMA DRIVE, SUITE A
WILMINGTON, NC 28403
PHONE: 910-815-0650
FAX: 910-815-0393
E-MAIL: mud@izecrr.com Firm License #C-0615

SHEET 1 OF 12

SURVEYED: CC/DC APPROVED:
DRAWN BY: TBM DATE: JAN. 10, 2017
CHECKED BY: MU SCALE: AS SHOWN

This certifies that this copy of this plat accurately depicts the boundary of the jurisdiction of Section 404 of the Clean Water Act as determined by the undersigned on this date. Unless there is a change in the law or our published regulations, the determination of Section 404 jurisdiction may be relied upon for a period not to exceed five (5) years from this date. The undersigned completed this determination utilizing the appropriate Regional Supplement to the 1987 U.S. Army Corps of Engineers Wetlands Delineation Manual.

Regulatory Official: *[Signature]*
Title: 815 177
Date: 8/15/17
USACE Action ID No: 1990-36836



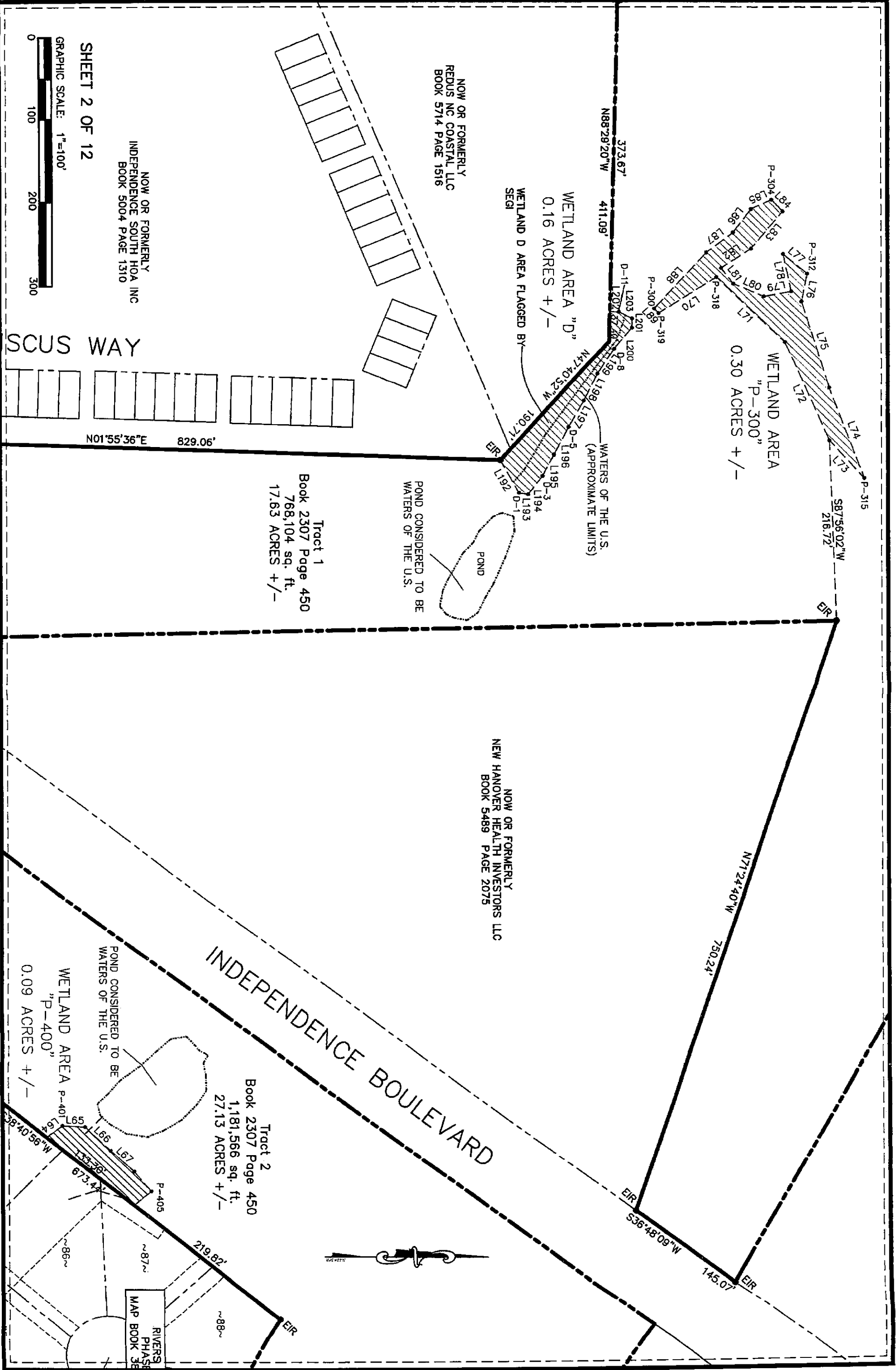
NORTH CAROLINA
NEW HANOVER COUNTY

I, MICHAEL N. UNDERWOOD, CERTIFY THAT THIS PLAT WAS DRAWN UNDER MY SUPERVISION FROM AN ACTUAL SURVEY MADE UNDER MY SUPERVISION DESCRIPTION AS SHOWN ON THE FACE OF THIS PLAT ERROR OF CLOSURE AS CALCULATED BY COMPUTER IS 1/20,000 + THAT THE BOUNDARIES NOT SURVEYED ARE SHOWN BY BROKEN LINES PLOTTED FROM INFORMATION REFERENCED IN THIS PLAT THAT THIS PLAT WAS PREPARED IN ACCORDANCE WITH THE STANDARDS OF PRACTICE FOR LAND SURVEYING IN NORTH CAROLINA. WITNESS MY ORIGINAL SIGNATURE, LICENSE NUMBER AND SEAL THIS 10th DAY OF JANUARY, A.D., 2017

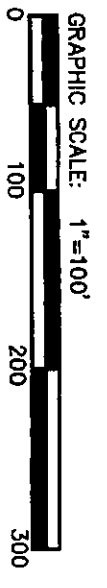
[Signature]
MICHAEL N. UNDERWOOD, R.L.S.
REGISTRATION NUMBER L-2962
SEAL OR STAMP

RECEIVED
FEB 05 2018
PLANNING DIVISION

REVISED 6/8/17 PER LM GROUP COMMENTS
REVISED 1/9/17 PER LM GROUP COMMENTS



SHEET 2 OF 12



NOW OR FORMERLY
INDEPENDENCE SOUTH HOA INC
BOOK 5004 PAGE 1310

NOW OR FORMERLY
REDUS NC COASTAL LLC
BOOK 5714 PAGE 1516

NOW OR FORMERLY
INDEPENDENCE SOUTH HOA INC
BOOK 5004 PAGE 1310

SCUS WAY

N01°55'36"E 829.06'

Tract 1
Book 2307 Page 450
768,104 sq. ft.
17.63 ACRES +/-

POND CONSIDERED TO BE
WATERS OF THE U.S.

NOW OR FORMERLY
NEW HANOVER HEALTH INVESTORS LLC
BOOK 5489 PAGE 2075

INDEPENDENCE BOULEVARD

Tract 2
Book 2307 Page 450
1,181,566 sq. ft.
27.13 ACRES +/-

POND CONSIDERED TO BE
WATERS OF THE U.S.

WETLAND AREA "P-400"
0.09 ACRES +/-

RIVERS
PHASE
MAP BOOK 3E





NOW OR FORMERLY
RIVENBARK CONSTRUCTION COMPANY
BOOK 5711 PAGE 698

ECHO FARMS BLVD.

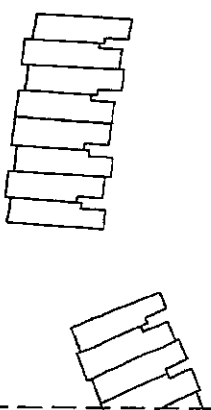
NOW OR FORMERLY
ECHO GREENS
HOMEOWNERS ASSO
BOOK 1290 PAGE 934

Tract 3
Book 2307 Page 450
3,532,229 sq. ft.
81.09 ACRES +/-

WETLAND AREA "1"
L49 0.12 ACRES +/-

S01°29'14"W
50.72'

L59
L58
L57
L56
L55
L54
L53
L52
L51
L50
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L48
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L5
L4
L3
L2
L1



GRAPHIC SCALE: 1"=100'



SHEET 4 OF 12

NOW OR FORMERLY
WEST WOOD AT ECHO
TOWNHOME HOA
BOOK 5596 PAGE 430

ECHO FARMS BLVD.

WESTWOOD AT ECHO
PHASE 1, SECTION 4
MAP BOOK 38 PAGE 125

WESTWOOD AT ECHO
PHASE 1, SECTION 3
MAP BOOK 38 PAGE 85

WESTWOOD AT ECHO
PHASE 1, SECTION 5
MAP BOOK 39 PAGE 293

WESTWOOD AT ECHO
PHASE 1, SECTION 1
MAP BOOK 37 PAGE 226

WETLAND AREA
"P-200"
0.86 ACRES +/-

POND CONSIDERED TO BE
WATERS OF THE U.S.

Tract 2
Book 2307 Page 450
1,181,566 sq. ft.
27.13 ACRES +/-

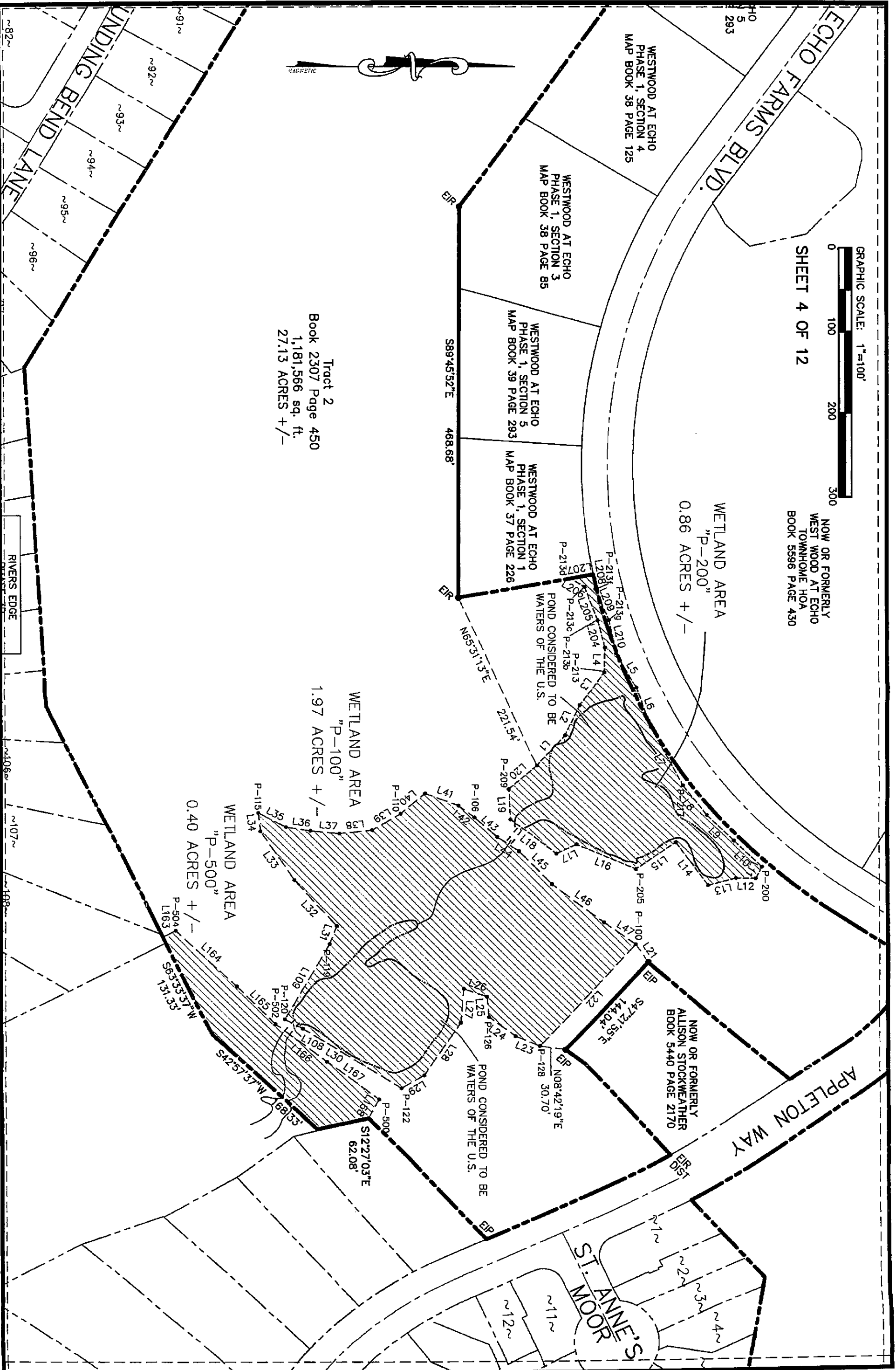
WETLAND AREA
"P-100"
1.97 ACRES +/-

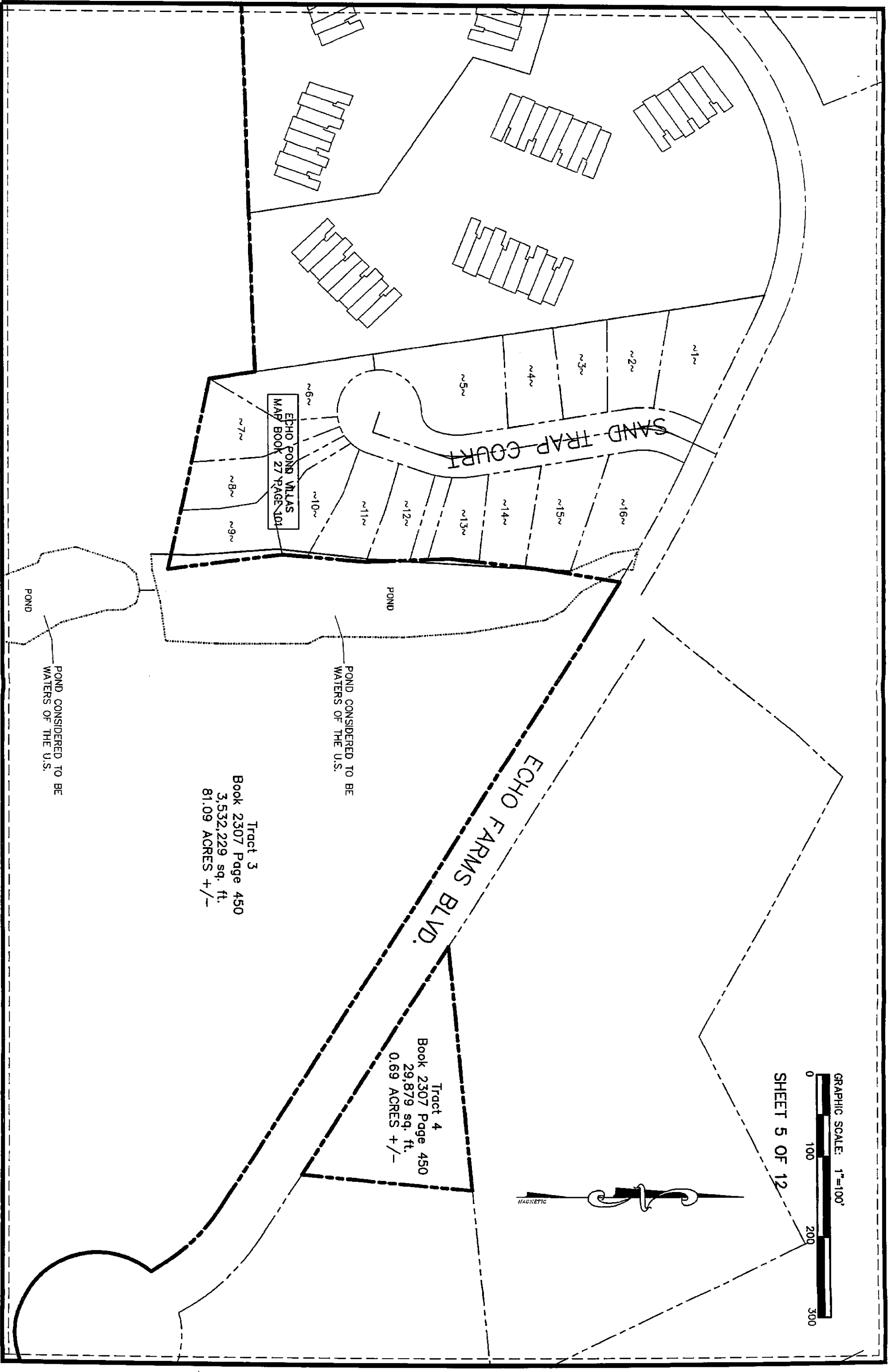
WETLAND AREA
"P-500"
0.40 ACRES +/-

NOW OR FORMERLY
ALLISON STOCKWEATHER
BOOK 5440 PAGE 2170

APPLETON WAY

ST. ANNE'S
MOOR





ECHO POND VILLAS
MAP BOOK 27 PAGE 101

SAND TRAP COURT

ECHO FARMS BLVD.

POND CONSIDERED TO BE
WATERS OF THE U.S.

POND CONSIDERED TO BE
WATERS OF THE U.S.

Tract 3
Book 2307 Page 450
3,532,229 sq. ft.
81.09 ACRES +/-

Tract 4
Book 2307 Page 450
29,879 sq. ft.
0.69 ACRES +/-

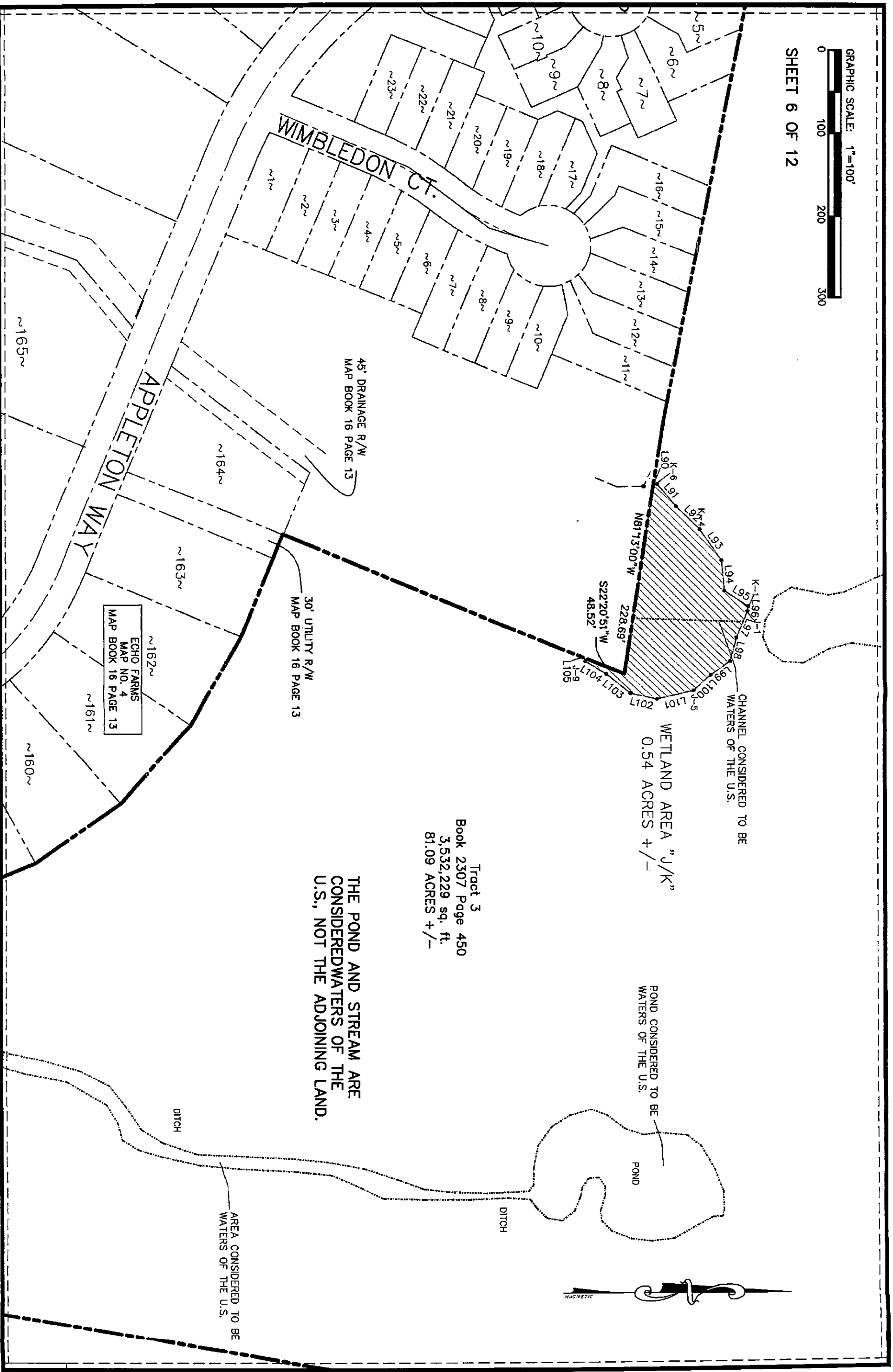
SHEET 5 OF 12

GRAPHIC SCALE: 1"=100'
0 100 200 300

MAGNETIC



SHEET 6 OF 12



CHANNEL CONSIDERED TO BE WATERS OF THE U.S.

WETLAND AREA "J/K"
0.54 ACRES +/-

Tract 3
Book 2307 Page 450
3,532,229 sq. ft.
81.09 ACRES +/-

POND CONSIDERED TO BE WATERS OF THE U.S.

THE POND AND STREAM ARE CONSIDERED WATERS OF THE U.S., NOT THE ADJOINING LAND.

AREA CONSIDERED TO BE WATERS OF THE U.S.



ECHO FARMS
MAP NO. 4
MAP BOOK 16 PAGE 13

45' DRAINAGE R/W
MAP BOOK 16 PAGE 13

30' UTILITY R/W
MAP BOOK 16 PAGE 13

DITCH

DITCH

POND

SAVOY CIRCLE

Tract 3
Book 2307 Page 450
3,532,229 sq. ft.
81.09 ACRES +/-

WETLAND AREA "A"
0.01 ACRES +/-

ECHO FARMS
MAP NO. 4
MAP BOOK 16 PAGE 13

30' UTILITY R/W
MAP BOOK 16
PAGE 13

10' DRAINAGE EASEMENT
MAP BOOK 16 PAGE 13

DITCH

15' DE

EIR N02°59'30"E 126.65'

EIR

N79°36'49"E

249.14'

EIR

EIR S66°05'23"E

160.91'

EIR S95°27'169"

19.83'

L213

N80°48'29"E

615.15'

500.25'

~154~

~151~

~150~

~149~

~148~

~147~

~155~

~156~

~157~

~158~

~159~

~207~

~202~

~201~

~200~

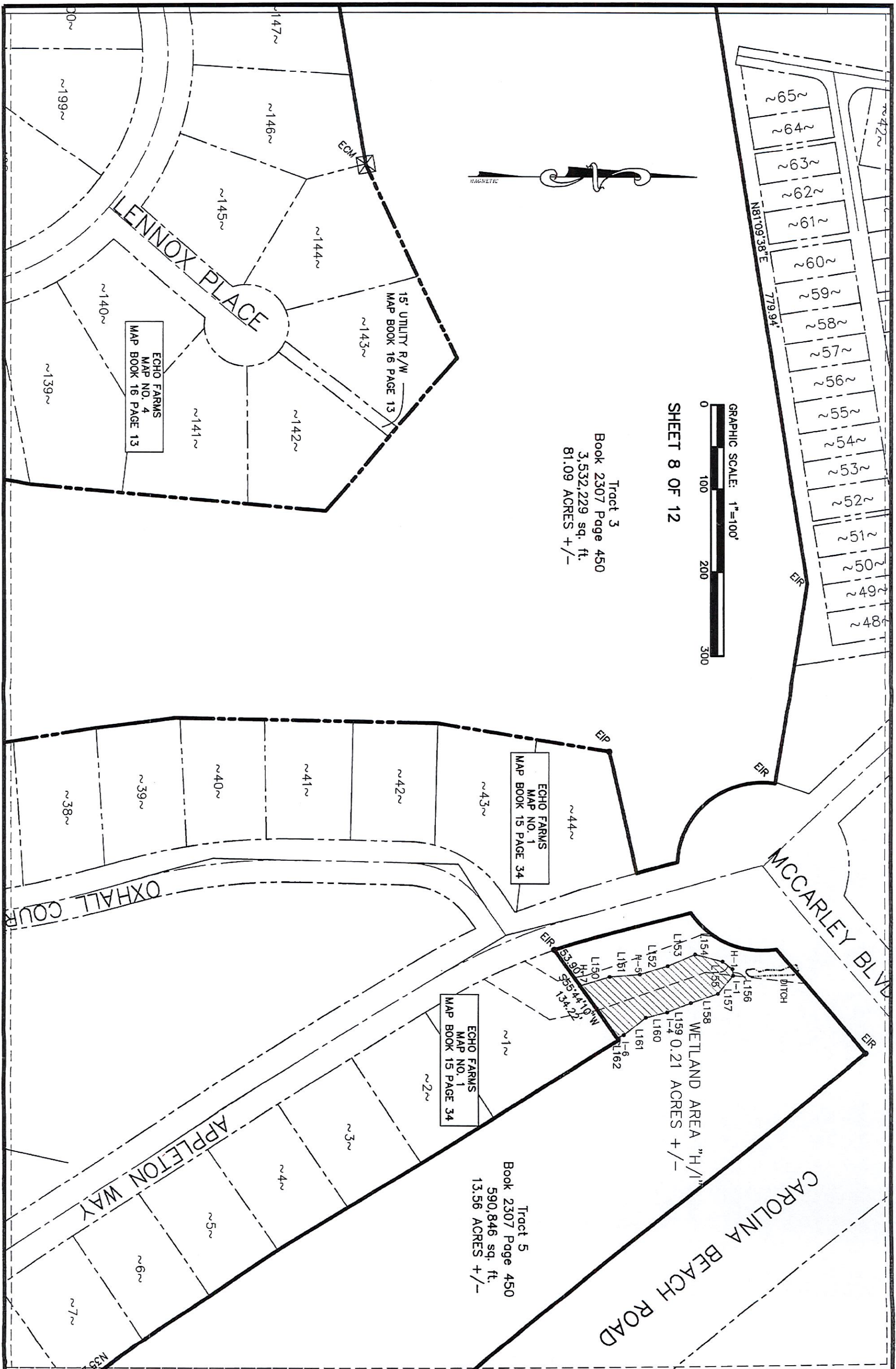


MAGNETIC

SHEET 7 OF 12

GRAPHIC SCALE: 1"=100'





SHEET 8 OF 12

Tract 3
 Book 2307 Page 450
 3,532,229 sq. ft.
 81.09 ACRES +/-

ECHO FARMS
 MAP NO. 4
 MAP BOOK 16 PAGE 13

15' UTILITY R/W
 MAP BOOK 16 PAGE 13

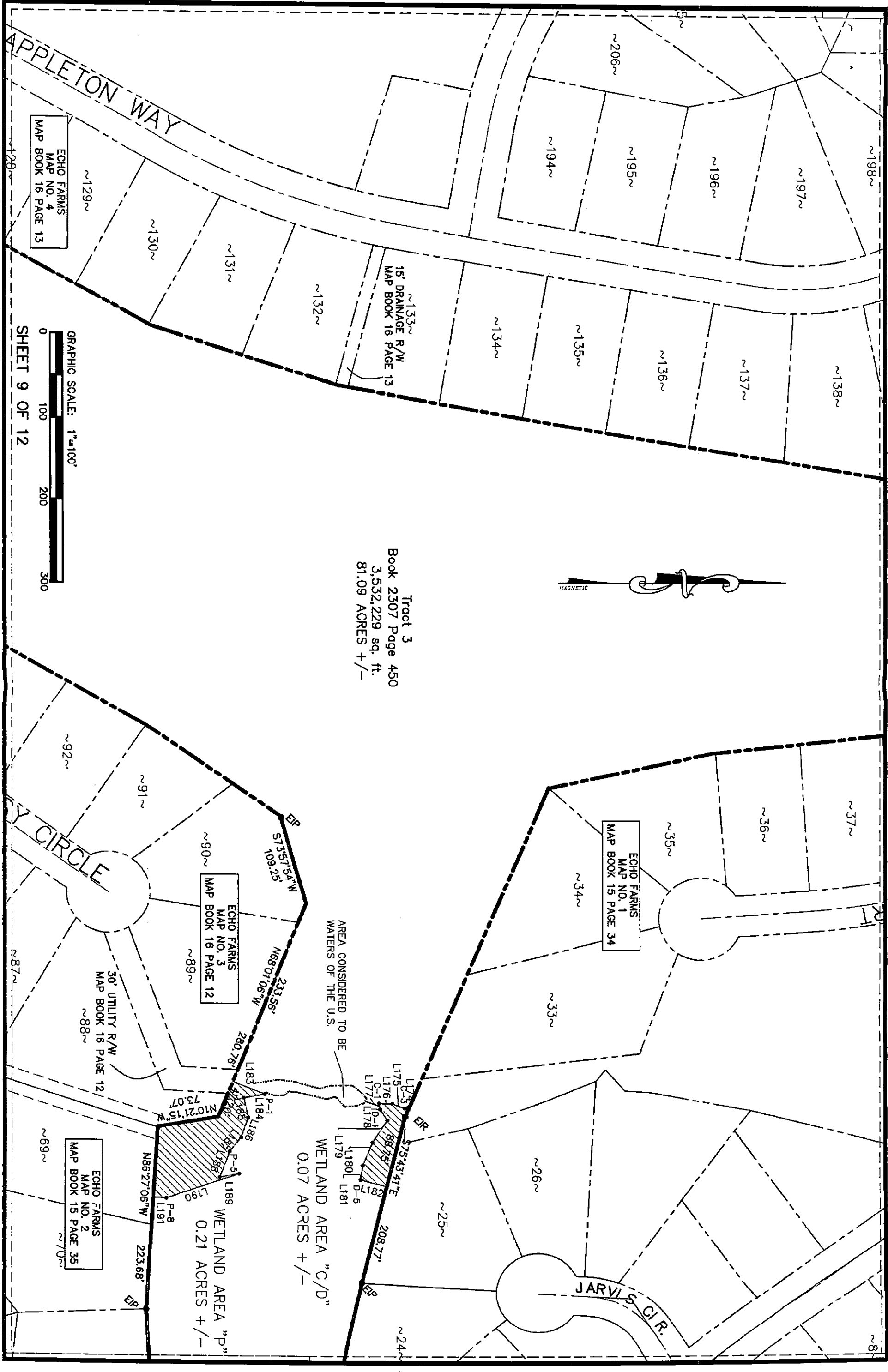
ECHO FARMS
 MAP NO. 1
 MAP BOOK 15 PAGE 34

ECHO FARMS
 MAP NO. 1
 MAP BOOK 15 PAGE 34

Tract 5
 Book 2307 Page 450
 590,846 sq. ft.
 13.56 ACRES +/-

WETLAND AREA "H/1"
 L154
 L153
 L152
 R-5
 L161
 L160
 L162
 L158
 L159 0.21 ACRES +/-

N35°22'

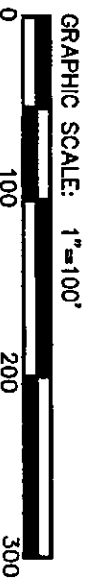


APPLETON WAY

ECHO FARMS
MAP NO. 4
MAP BOOK 16 PAGE 13

15' DRAINAGE R/W
MAP BOOK 16 PAGE 13

Tract 3
Book 2307 Page 450
3,532,229 sq. ft.
81.09 ACRES +/-



SHEET 9 OF 12

ECHO FARMS
MAP NO. 1
MAP BOOK 15 PAGE 34

ECHO FARMS
MAP NO. 3
MAP BOOK 16 PAGE 12

30' UTILITY R/W
MAP BOOK 16 PAGE 12/

ECHO FARMS
MAP NO. 2
MAP BOOK 15 PAGE 35

AREA CONSIDERED TO BE
WATERS OF THE U.S.

WETLAND AREA "C/D"
0.07 ACRES +/-

WETLAND AREA "P"
0.21 ACRES +/-

JARVIS CIR.

Tract 5
Book 2307 Page 450
590,846 sq. ft.
13.56 ACRES +/-

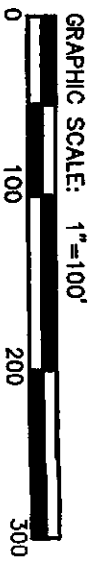
AREA CONSIDERED TO BE
WATERS OF THE U.S.

CAROLINA BEACH ROAD

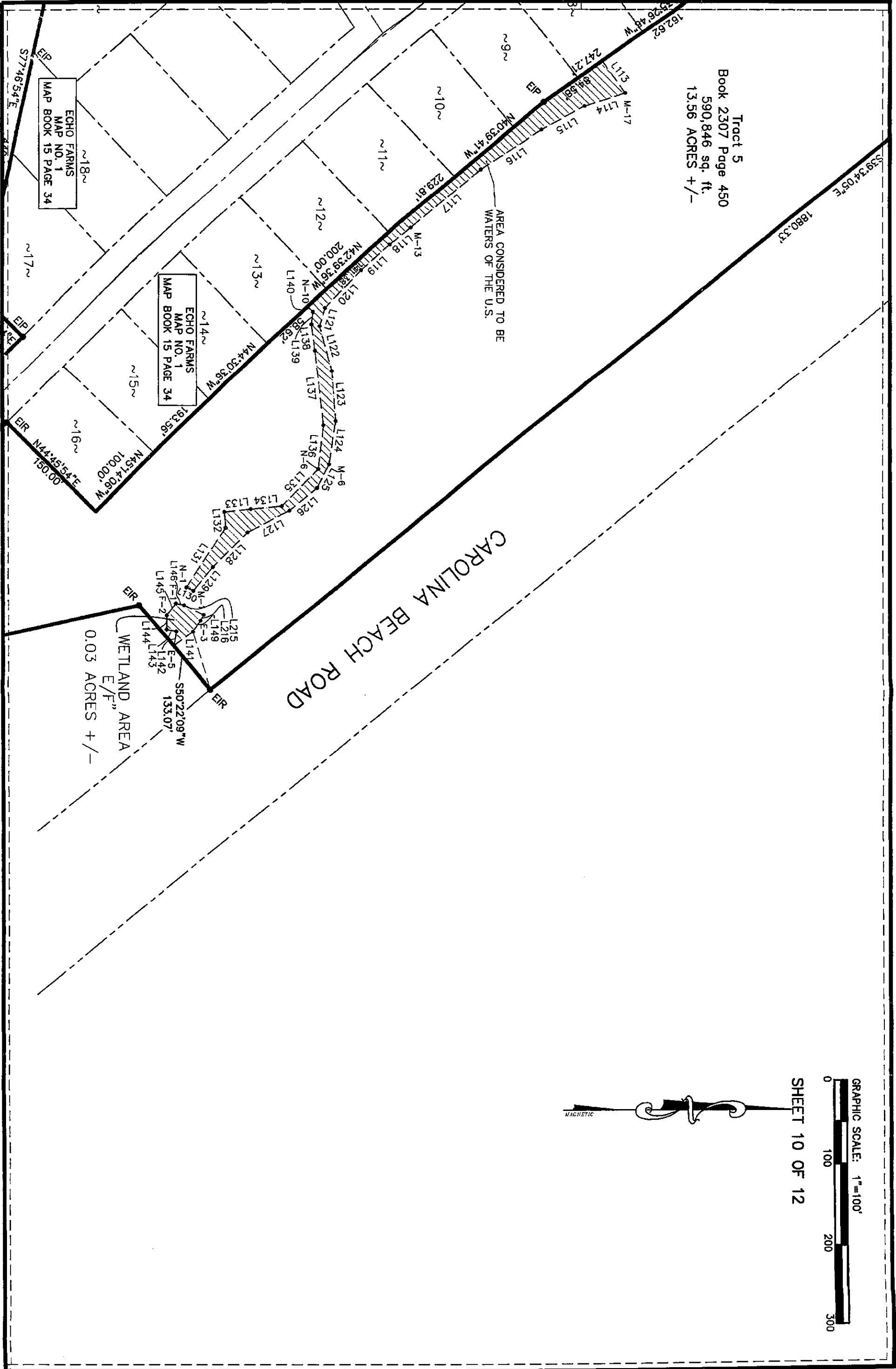
WETLAND AREA
E/F"
0.03 ACRES +/-

ECHO FARMS
MAP NO. 1
MAP BOOK 15 PAGE 34

ECHO FARMS
MAP NO. 1
MAP BOOK 15 PAGE 34



SHEET 10 OF 12



Tract 3
Book 2307 Page 450
3,532,229 sq. ft.
81.09 ACRES +/-

N44°43'44"
70.28'

S86°47'54"W 573.80'

ECHO FARMS
MAP NO. 2
MAP BOOK 15 PAGE 35

CHATHAM P.
APPLETON WAY

~74~

~76~

~77~

~78~

~75~

~80~

~81~

~81~

WETLAND AREA "G"
0.19 ACRES +/-

L219 G-2e L220 L110 G-6 L112
G-2b L218 G-2a L107 L106 L105 L104 L103
L217 L101 361

N65°22'06"W

294.62'

L106

L105

L104

L103

L102

L101

361

S59.21'

S12°37'43"E



SHEET 11 OF 12

GRAPHIC SCALE: 1"=100'



LINE	DIRECTION	DISTANCE
L1	N47°03'15"W	49.26'
L2	N64°22'07"W	39.90'
L3	N52°53'37"W	48.73'
L4	N88°37'03"W	29.47'
L5	N60°11'22"E	46.50'
L6	N69°22'53"E	50.64'
L7	N61°55'08"E	79.57'
L8	N52°28'15"E	46.04'
L9	N44°57'36"E	44.68'
L10	N43°49'21"E	45.56'
L11	S61°29'36"E	15.50'
L12	S01°09'55"W	23.11'
L13	S14°27'19"E	34.04'
L14	S53°30'17"W	63.74'
L15	S34°11'49"E	56.95'
L16	S23°07'15"W	76.03'
L17	S24°43'58"E	26.16'
L18	S37°36'56"W	68.44'
L19	S87°28'15"W	37.66'
L20	N40°46'17"W	43.45'
L21	S54°46'41"W	25.84'
L22	N47°16'07"W	166.86'
L23	N23°30'27"E	31.31'
L24	N36°51'52"E	39.05'
L25	N84°34'33"E	24.58'
L26	N19°08'17"E	28.97'
L27	N84°56'38"W	41.27'
L28	N56°34'54"W	78.39'
L29	N30°25'07"W	31.39'
L30	N32°21'13"E	137.75'
L31	S68°33'42"E	22.85'
L32	N47°01'43"E	73.19'
L33	N55°23'59"E	70.64'
L34	N83°57'59"E	23.52'
L35	S28°40'43"W	37.37'
L36	S09°20'49"W	29.20'
L37	S05°26'20"W	34.26'
L38	S06°13'05"E	39.07'
L39	S31°32'04"E	39.75'
L40	S41°02'46"E	38.53'
L41	S21°11'34"W	42.00'
L42	S37°33'57"W	23.99'
L43	S42°39'21"W	36.22'
L44	S33°21'08"W	30.90'
L45	S45°16'58"W	55.02'
L46	S36°20'15"W	75.71'
L47	S34°43'59"W	45.26'
L48	N14°51'27"E	31.57'
L49	N10°46'38"W	30.92'
L50	N02°50'18"W	25.89'
L51	N10°16'14"E	29.72'
L52	N23°07'06"E	14.05'
L53	N20°34'46"W	25.73'
L54	S32°22'53"W	18.63'
L55	S01°56'41"E	21.01'
L56	S03°33'37"W	27.34'

LINE	DIRECTION	DISTANCE
L57	S49°21'04"W	28.43'
L58	S49°32'45"W	30.41'
L59	S17°15'17"W	23.49'
L60	S37°48'39"E	23.24'
L61	S43°02'33"E	31.30'
L62	S78°16'15"E	13.62'
L63	N34°45'03"E	19.10'
L64	N36°34'20"W	23.81'
L65	N03°09'20"E	26.85'
L66	N43°31'21"E	42.20'
L67	N42°44'07"E	37.92'
L68	N50°32'27"E	31.68'
L69	S39°20'25"E	26.53'
L70	S32°53'40"E	81.07'
L71	S45°03'07"W	113.67'
L72	S65°58'20"W	128.41'
L73	S47°35'27"W	60.93'
L74	N68°55'18"E	114.74'
L75	N72°58'35"E	110.52'
L76	S78°26'48"E	34.67'
L77	N40°02'54"E	37.28'
L78	S78°05'57"W	46.65'
L79	N10°42'54"W	32.81'
L80	N23°42'42"E	39.38'
L81	N53°26'17"E	23.89'
L82	S33°28'17"E	42.20'
L83	S50°06'27"E	57.96'
L84	N45°56'48"E	18.74'
L85	N23°55'39"W	26.71'
L86	N52°55'07"W	34.77'
L87	N37°11'46"W	39.30'
L88	N48°00'46"W	91.86'
L89	S48°26'59"W	7.83'
L90	S09°49'01"E	4.54'
L91	S51°27'22"W	35.72'
L92	S44°40'12"W	39.18'
L93	S54°56'54"W	44.38'
L94	S84°30'22"W	35.72'
L95	S32°56'11"W	33.31'
L96	N84°28'23"W	6.33'
L97	N67°12'51"W	33.98'
L98	N74°59'36"W	29.42'
L99	N36°46'39"W	28.86'
L100	N42°39'28"W	27.72'
L101	N13°48'13"W	44.74'
L102	N12°51'51"E	32.04'
L103	N40°21'42"E	36.71'
L104	N32°44'37"E	29.65'
L105	N67°39'09"W	3.23'
L106	S24°36'44"W	13.98'
L107	S24°40'10"E	34.29'
L108	N28°22'04"E	23.88'
L109	S59°30'11"E	104.90'
L110	S71°35'24"W	22.41'
L111	S78°47'13"W	16.22'
L112	S13°17'45"W	10.12'

LINE	DIRECTION	DISTANCE
L113	S54°29'14"W	46.26'
L114	S18°31'47"E	50.70'
L115	S28°59'27"E	57.70'
L116	S33°43'39"E	86.23'
L117	S40°43'55"E	108.98'
L118	S39°10'01"E	32.18'
L119	S42°08'05"E	45.56'
L120	S46°15'54"E	61.81'
L121	S72°55'57"E	22.08'
L122	N75°08'54"E	56.70'
L123	N85°51'31"E	61.62'
L124	S81°21'30"E	52.69'
L125	S62°46'22"E	30.76'
L126	S39°04'49"E	42.23'
L127	S72°23'28"E	55.72'
L128	S44°58'34"E	57.95'
L129	S50°17'58"E	36.94'
L130	S27°32'27"W	9.22'
L131	N86°30'51"W	84.93'
L132	S85°16'31"W	18.27'
L133	N06°26'51"W	31.21'
L134	N05°35'56"W	36.77'
L135	N44°51'43"W	61.31'
L136	N83°12'39"W	52.58'
L137	S83°45'18"W	92.07'
L138	S82°31'39"W	32.30'
L139	N82°58'27"W	14.96'
L140	S47°19'14"W	8.02'
L141	S36°53'30"E	27.77'
L142	N81°40'15"W	17.21'
L143	S11°46'47"W	11.62'
L144	N89°56'52"W	17.55'
L145	N82°42'01"W	18.26'
L146	N13°08'23"E	9.80'
L149	S56°33'15"E	16.07'
L150	S17°46'42"E	36.42'
L151	S04°47'10"E	35.90'
L152	S17°28'56"E	34.38'
L153	S24°18'21"E	35.53'
L154	S15°19'35"W	33.55'
L155	S38°48'44"W	15.03'
L156	N85°17'51"E	8.26'
L157	N51°05'47"W	28.72'
L158	N19°54'24"W	33.93'
L159	N22°12'40"W	30.24'
L160	N14°30'03"W	25.85'
L161	N39°05'34"W	33.36'
L162	N24°11'40"W	8.74'
L163	N26°26'23"W	16.93'
L164	N42°18'57"E	98.04'
L165	N45°04'25"E	64.43'
L166	N37°31'51"E	76.04'
L167	N36°48'38"E	76.94'
L168	S60°20'49"E	25.80'
L169	N51°13'02"W	6.57'
L174	S38°22'09"E	12.65'

LINE	DIRECTION	DISTANCE
L175	S20°17'59"W	15.94'
L176	S01°44'41"W	15.54'
L177	N81°08'59"E	7.70'
L178	N57°52'32"E	16.30'
L179	S57°15'02"E	32.82'
L180	S67°48'54"E	30.36'
L181	S81°19'39"E	17.83'
L182	N14°18'15"E	33.52'
L183	S22°03'14"W	39.29'
L184	S10°35'32"E	25.35'
L185	N77°53'29"E	25.14'
L186	S70°24'44"E	26.50'
L187	S52°16'34"E	21.87'
L188	S69°43'02"E	33.71'
L189	N10°49'08"W	23.23'
L190	S19°11'23"E	91.74'
L191	S03°37'14"W	13.98'
L192	S61°04'31"W	45.00'
L193	S10°44'53"W	10.90'
L194	S63°13'33"E	28.29'
L195	S61°30'59"E	28.73'
L196	S62°11'39"E	37.09'
L197	S59°47'38"E	35.90'
L198	S63°09'45"E	35.66'
L199	S56°51'38"E	35.94'
L200	S51°24'38"E	33.76'
L201	N89°57'11"E	11.00'
L202	N28°49'23"E	17.63'
L203	S01°30'40"W	10.43'
L204	S75°53'23"W	34.35'
L205	S68°57'55"W	43.69'
L206	S32°38'44"W	18.98'
L207	N09°30'15"W	26.92'
L208	N81°19'54"E	17.43'
L209	N67°46'55"E	40.93'
L210	N78°00'29"E	41.62'
L211	N46°23'31"E	37.15'
L212	N40°10'07"E	29.08'
L213	S29°00'41"W	32.41'
L214	S14°51'15"W	21.19'
L215	N27°40'38"E	26.13'
L216	S61°32'07"E	8.00'
L217	N51°18'29"W	21.69'
L218	N77°29'01"W	39.13'
L219	N85°26'24"E	41.63'
L220	S86°29'02"E	39.43'