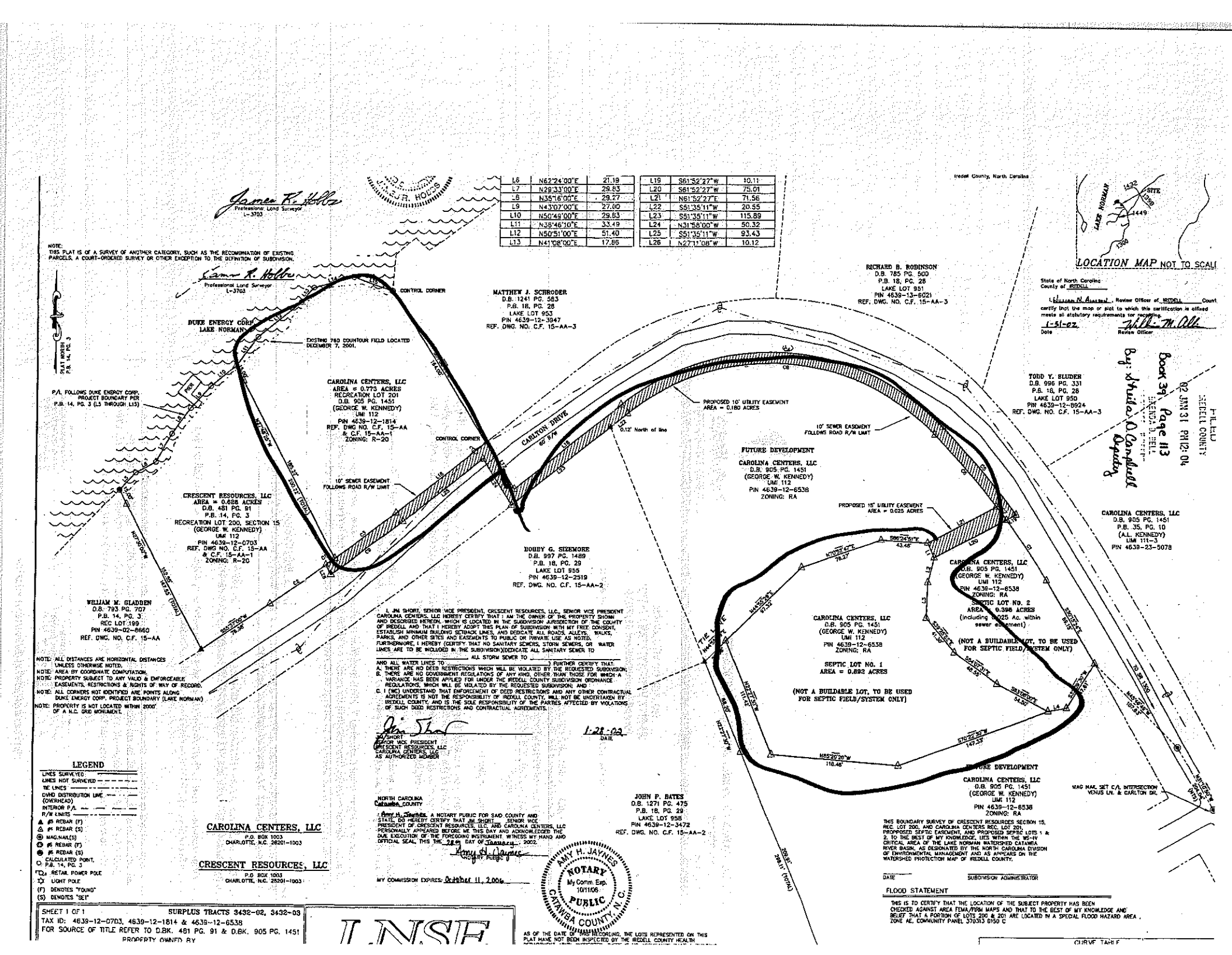


L6	N62°24'00"E	21.19	L19	S61°52'27"W	10.11
L7	N29°33'00"E	29.83	L20	S61°52'27"W	75.01
L8	N35°16'00"E	29.27	L21	N61°52'27"E	71.56
L9	N43°07'00"E	27.00	L22	S51°35'11"W	20.55
L10	N50°49'00"E	29.83	L23	S51°35'11"W	115.89
L11	N36°46'10"E	33.49	L24	N31°58'00"W	50.32
L12	N50°51'00"E	51.40	L25	S51°35'11"W	93.43
L13	N41°08'00"E	17.86	L26	N27°11'08"W	10.12

James R. Holbe
Professional Land Surveyor
L-3703

NOTE:
THIS PLAT IS OF A SURVEY OF ANOTHER CATEGORY, SUCH AS THE RECOMBINATION OF EXISTING PARCELS, A COURT-ORDERED SURVEY OR OTHER EXCEPTION TO THE DEFINITION OF SUBDIVISION.

PLAT NORTH P.B. 14, PG. 3

P/L FOLLOWS DUKE ENERGY CORP. PROJECT BOUNDARY PER P.B. 14, PG. 3 (L5 THROUGH L15)

DUKE ENERGY CORP.
LAKE NORMAN

EXISTING 760 COUNTOUR FIELD LOCATED DECEMBER 7, 2001.

CONTROL CORNER

MATTHEW J. SCHRODER
D.B. 1241 PG. 583
P.B. 18, PG. 28
LAKE LOT 953
PIN 4639-12-3947
REF. DWG. NO. C.F. 15-AA-3

RICHARD B. ROBINSON
D.B. 785 PG. 500
P.B. 18, PG. 28
LAKE LOT 951
PIN 4639-13-6021
REF. DWG. NO. C.F. 15-AA-3

CAROLINA CENTERS, LLC
AREA = 0.773 ACRES
RECREATION LOT 201
D.B. 905 PG. 1451
(GEORGE W. KENNEDY)
UMI 112
PIN 4639-12-1814
REF. DWG NO. C.F. 15-AA & C.F. 15-AA-1
ZONING: R-20

CONTROL CORNER

CARLTON DRIVE
40' R/W

PROPOSED 15' UTILITY EASEMENT
AREA = 0.180 ACRES

10' SEWER EASEMENT FOLLOWS ROAD R/W LIMIT

0.12' North of line

10' SEWER EASEMENT FOLLOWS ROAD R/W LIMIT

FUTURE DEVELOPMENT
CAROLINA CENTERS, LLC
D.B. 905 PG. 1451
(GEORGE W. KENNEDY)
UMI 112
PIN 4639-12-6538
ZONING: RA

TODD Y. SLUDER
D.B. 996 PG. 331
P.B. 18, PG. 28
LAKE LOT 950
PIN 4639-12-8924
REF. DWG. NO. C.F. 15-AA-3

PROPOSED 15' UTILITY EASEMENT
AREA = 0.025 ACRES

CRESCENT RESOURCES, LLC
AREA = 0.628 ACRES
D.B. 481 PG. 91
P.B. 14, PG. 3
RECREATION LOT 200, SECTION 1S
(GEORGE W. KENNEDY)
UMI 112
PIN 4639-12-0703
REF. DWG NO. C.F. 15-AA & C.F. 15-AA-1
ZONING: R-20

BOBBY G. SIZEMORE
D.B. 997 PG. 1489
P.B. 18, PG. 28
LAKE LOT 955
PIN 4639-12-2519
REF. DWG. NO. C.F. 15-AA-2

CAROLINA CENTERS, LLC
D.B. 905 PG. 1451
P.B. 35, PG. 10
(A.L. KENNEDY)
UMI 111-3
PIN 4639-23-5078

CAROLINA CENTERS, LLC
D.B. 905 PG. 1451
(GEORGE W. KENNEDY)
UMI 112
PIN 4639-12-8538
ZONING: RA
SEPTIC LOT NO. 2
AREA = 0.396 ACRES
(including 0.025 Ac. within sewer easement)

(NOT A BUILDABLE LOT, TO BE USED FOR SEPTIC FIELD/SYSTEM ONLY)

CAROLINA CENTERS, LLC
D.B. 905 PG. 1451
(GEORGE W. KENNEDY)
UMI 112
PIN 4639-12-6538
ZONING: RA

SEPTIC LOT NO. 1
AREA = 0.892 ACRES

(NOT A BUILDABLE LOT, TO BE USED FOR SEPTIC FIELD/SYSTEM ONLY)

WILLIAM M. GLADDEN
D.B. 793 PG. 707
P.B. 14, PG. 3
REC LOT 199
PIN 4639-02-8660
REF. DWG. NO. C.F. 15-AA

NOTE: ALL DISTANCES ARE HORIZONTAL DISTANCES UNLESS OTHERWISE NOTED.
NOTE: AREA BY COORDINATE COMPUTATION.
NOTE: PROPERTY SUBJECT TO ANY VALID & ENFORCEABLE EASEMENTS, RESTRICTIONS & RIGHTS OF WAY OF RECORD.
NOTE: ALL CORNERS NOT IDENTIFIED ARE POINTS ALONG DUKE ENERGY CORP. PROJECT BOUNDARY (LAKE NORMAN)
NOTE: PROPERTY IS NOT LOCATED WITHIN 2000' OF A N.C. GRID MONUMENT.

I, JM SHORT, SENIOR VICE PRESIDENT, CRESCENT RESOURCES, LLC., SENIOR VICE PRESIDENT CAROLINA CENTERS, LLC HEREBY CERTIFY THAT I AM THE OWNER OF THE PROPERTY SHOWN AND DESCRIBED HEREON, WHICH IS LOCATED IN THE SUBDIVISION JURISDICTION OF THE COUNTY OF IREDELL AND THAT I HEREBY ADOPT THIS PLAN OF SUBDIVISION WITH MY FREE CONSENT, ESTABLISH MINIMUM BUILDING SETBACK LINES, AND DEDICATE ALL ROADS, ALLEYS, WALKS, PARKS, AND OTHER SITES AND EASEMENTS TO PUBLIC OR PRIVATE USE AS NOTED. FURTHERMORE, I HEREBY CERTIFY THAT NO SANITARY SEWERS, STORM SEWERS, OR WATER LINES ARE TO BE INCLUDED IN THE SUBDIVISION (DEDICATE ALL SANITARY SEWER TO _____ ALL STORM SEWER TO _____ AND ALL WATER LINES TO _____) FURTHER CERTIFY THAT:
A. THERE ARE NO DEED RESTRICTIONS WHICH WILL BE VIOLATED BY THE REQUESTED SUBDIVISION;
B. THERE ARE NO GOVERNMENT REGULATIONS OF ANY KIND, OTHER THAN THOSE FOR WHICH A VARIANCE HAS BEEN APPLIED FOR UNDER THE IREDELL COUNTY SUBDIVISION ORDINANCE REGULATIONS, WHICH WILL BE VIOLATED BY THE REQUESTED SUBDIVISION; AND
C. I (WE) UNDERSTAND THAT ENFORCEMENT OF DEED RESTRICTIONS AND ANY OTHER CONTRACTUAL AGREEMENTS IS NOT THE RESPONSIBILITY OF IREDELL COUNTY, WILL NOT BE UNDERTAKEN BY IREDELL COUNTY, AND IS THE SOLE RESPONSIBILITY OF THE PARTIES AFFECTED BY VIOLATIONS OF SUCH DEED RESTRICTIONS AND CONTRACTUAL AGREEMENTS.

JM SHORT
SENIOR VICE PRESIDENT
CRESCENT RESOURCES, LLC
CAROLINA CENTERS, LLC
AS AUTHORIZED MEMBER

1-28-02
DATE

NORTH CAROLINA
Catawba COUNTY

I, Amy H. Jaynes, A NOTARY PUBLIC FOR SAID COUNTY AND STATE, DO HEREBY CERTIFY THAT JM SHORT, SENIOR VICE PRESIDENT OF CRESCENT RESOURCES, LLC AND CAROLINA CENTERS, LLC PERSONALLY APPEARED BEFORE ME THIS DAY AND ACKNOWLEDGED THE DUE EXECUTION OF THE FOREGOING INSTRUMENT. WITNESS MY HAND AND OFFICIAL SEAL, THIS THE 28th DAY OF January, 2002.

Amy H. Jaynes
NOTARY PUBLIC

MY COMMISSION EXPIRES: October 11, 2006

AMY H. JAYNES NOTARY PUBLIC My Comm. Exp. 10/11/06 CATAWBA COUNTY, N.C.

AS OF THE DATE OF THIS RECORDING, THE LOTS REPRESENTED ON THIS PLAT HAVE NOT BEEN INSPECTED BY THE IREDELL COUNTY HEALTH

JOHN P. BATES
D.B. 1271 PG. 475
P.B. 18, PG. 29
LAKE LOT 958
PIN 4639-12-3472
REF. DWG. NO. C.F. 15-AA-2

FUTURE DEVELOPMENT
CAROLINA CENTERS, LLC
D.B. 905 PG. 1451
(GEORGE W. KENNEDY)
UMI 112
PIN 4639-12-8538
ZONING: RA

MAG NAIL SET C/L INTERSECTION VENUS LN. & CARLTON DR.

THIS BOUNDARY SURVEY OF CRESCENT RESOURCES SECTION 1S, REC. LOT 200, AND CAROLINA CENTERS REC. LOT 201, PROPOSED SEPTIC EASEMENT, AND PROPOSED SEPTIC LOTS 1 & 2, TO THE BEST OF MY KNOWLEDGE, LIES WITHIN THE WS-IV CRITICAL AREA OF THE LAKE NORMAN WATERSHED CATAWBA RIVER BASIN, AS DESIGNATED BY THE NORTH CAROLINA DIVISION OF ENVIRONMENTAL MANAGEMENT AND AS APPEARS ON THE WATERSHED PROTECTION MAP OF IREDELL COUNTY.

DATE

SUBDIVISION ADMINISTRATOR

FLOOD STATEMENT

THIS IS TO CERTIFY THAT THE LOCATION OF THE SUBJECT PROPERTY HAS BEEN CHECKED AGAINST AREA FEMA/FIRM MAPS AND THAT TO THE BEST OF MY KNOWLEDGE AND BELIEF THAT A PORTION OF LOTS 200 & 201 ARE LOCATED IN A SPECIAL FLOOD HAZARD AREA, ZONE AE, COMMUNITY PANEL 370313 0150 C

LOCATION MAP NOT TO SCALE

Iredell County, North Carolina

State of North Carolina
County of IREDELL

I, William M. Gladden, Review Officer of IREDELL County certify that the map or plat to which this certification is affixed meets all statutory requirements for recording.

1-31-02
Date

Review Officer

FILED
IREDELL COUNTY
02 JAN 31 PM 12:04
By: Shirley O. Campbell Deputy
Book 39 Page 113

LEGEND

- LINES SURVEYED
- LINES NOT SURVEYED
- TIE LINES
- OHMD DISTRIBUTION LINE (OVERHEAD)
- INTERIOR P/L
- R/W LIMITS
- ▲ #5 REBAR (F)
- △ #4 REBAR (S)
- ⊙ MAG NAIL(S)
- ⊙ #5 REBAR (F)
- ● #5 REBAR (S)
- CALCULATED POINT, P.B. 14, PG. 3
- RETAIL POWER POLE
- LIGHT POLE
- (F) DENOTES "FOUND"
- (S) DENOTES "SET"

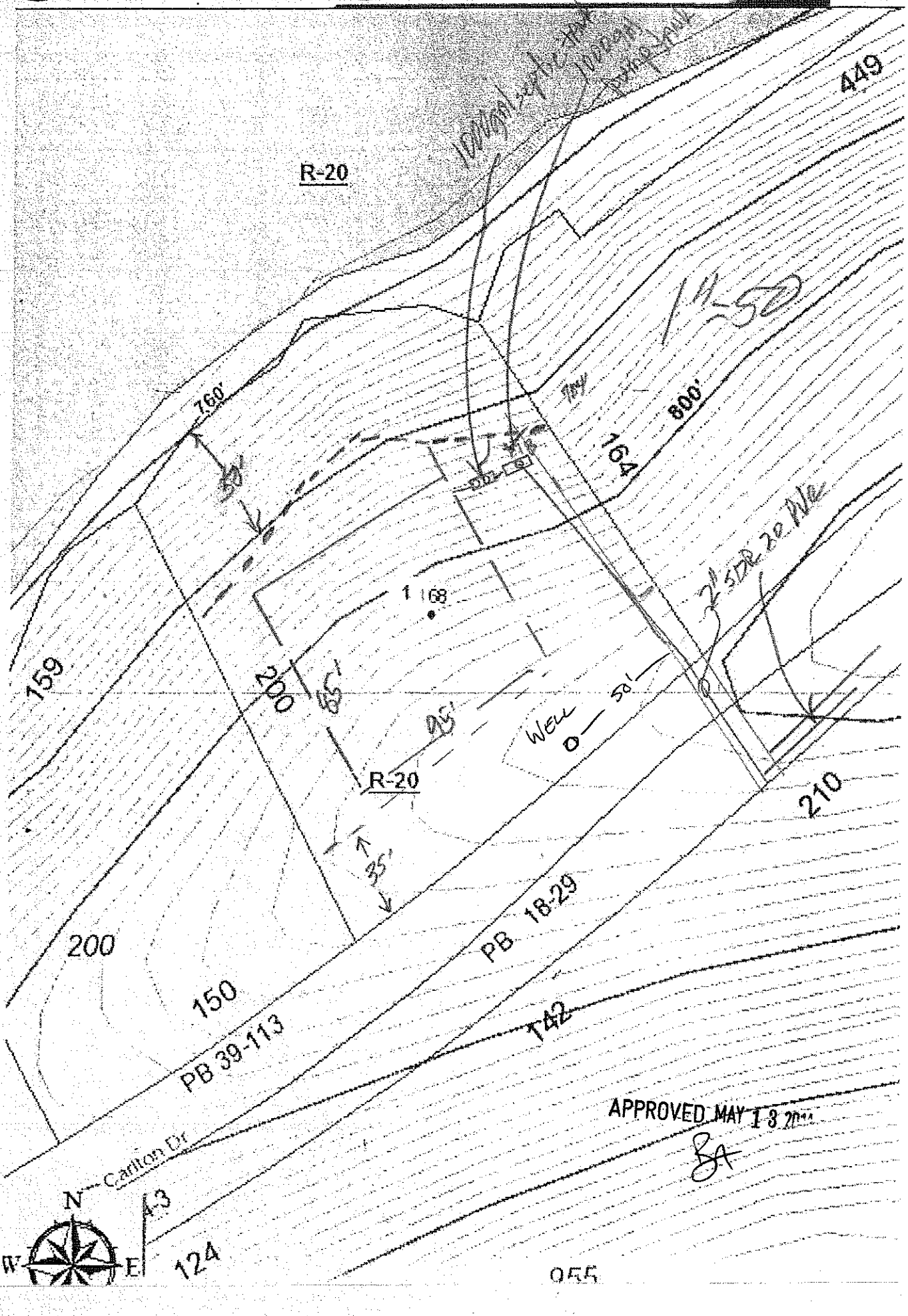
CAROLINA CENTERS, LLC
P.O. BOX 1003
CHARLOTTE, N.C. 28201-1003

CRESCENT RESOURCES, LLC
P.O. BOX 1003
CHARLOTTE, N.C. 28201-1003

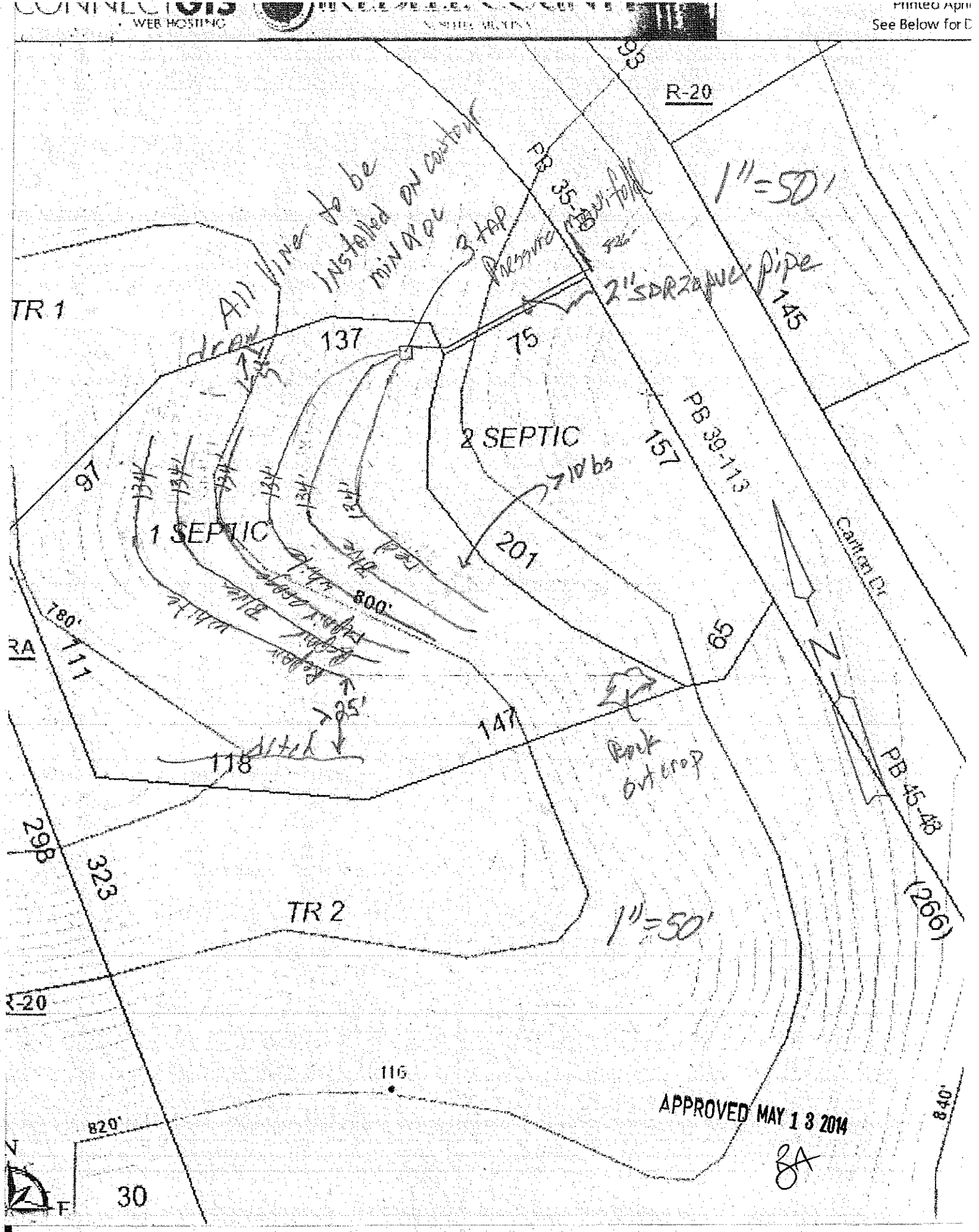
SHEET 1 OF 1 SURPLUS TRACTS 3432-02, 3432-03
TAX ID: 4639-12-0703, 4639-12-1814 & 4639-12-6538
FOR SOURCE OF TITLE REFER TO D.BK. 481 PG. 91 & D.BK. 905 PG. 1451
PROPERTY OWNED BY

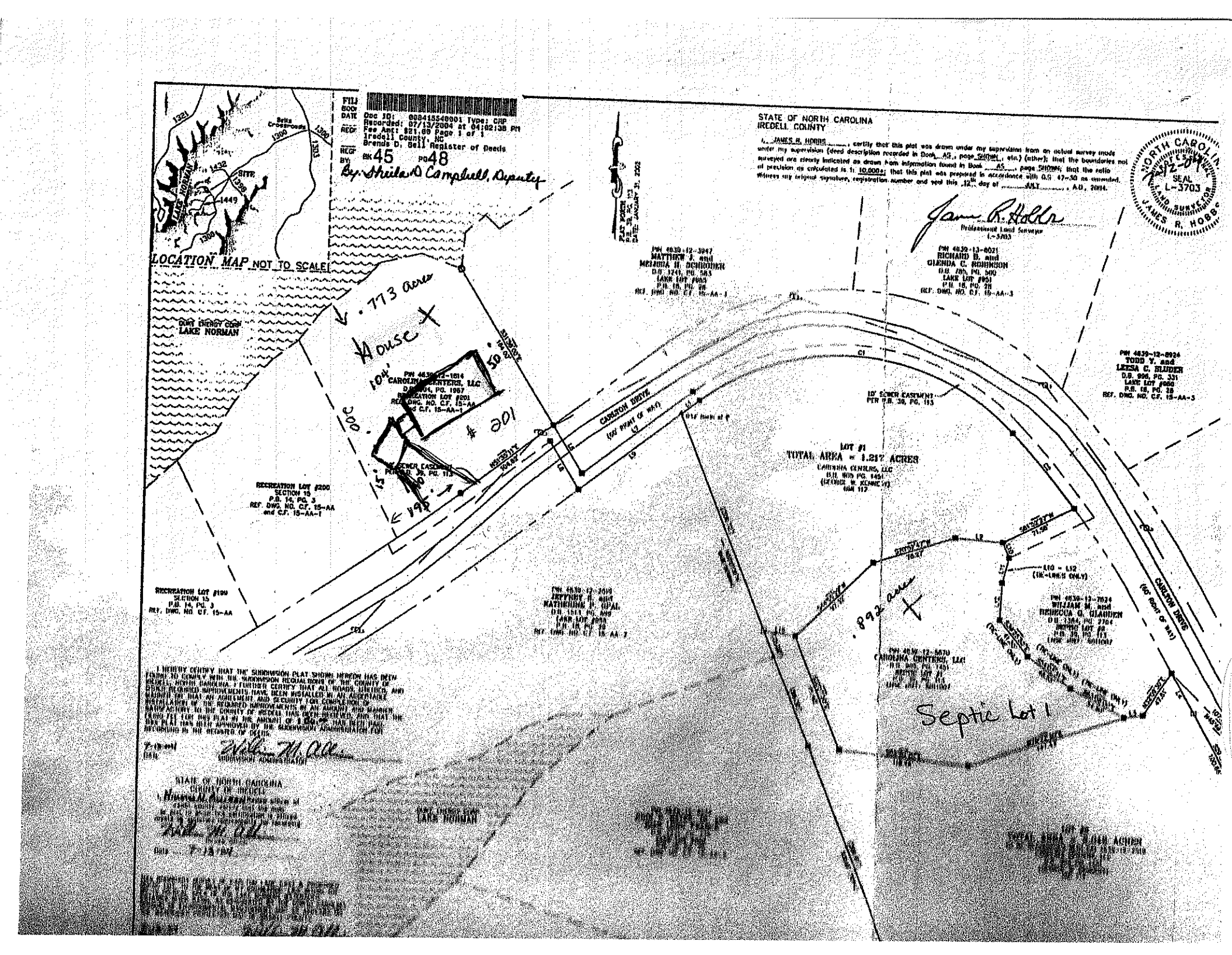
CURVE TABLE

WEB HOSTING NORTH CAROLINA



CONNECTGIS
WEB HOSTING




FILED
DOC ID:
DATE
RECD
RECD
BY
Doc ID: 000415540001 Type: CRP
Recorded: 07/13/2004 At 04:02:38 PM
Fee Amt: $21.00 Page 1 of 1
Iredell County, NC
Brenda D. Bell Register of Deeds
BK 45 PG 48
By: Shirley D Campbell, Deputy
LOCATION MAP NOT TO SCALE
LAKE NORMAN
Duke Energy Corp
LAKE NORMAN
.773 acres
House
#301
#199
50'
100'
15'
SEWER EASEMENT
PER P.B. 30, PG. 113
RECREATION LOT #200
SECTION 15
P.B. 14, PG. 3
REF. DWG. NO. C.F. 15-AA
and C.F. 15-AA-1
RECREATION LOT #199
SECTION 15
P.B. 14, PG. 3
REF. DWG. NO. C.F. 15-AA
CARLTON DRIVE
(50' RIGHT OF WAY)
10' SEWER EASEMENT
PER P.B. 30, PG. 113
LOT #1
TOTAL AREA = 1.217 ACRES
CAROLINA CENTERS, LLC
D.B. 805 PG. 1451
(SEE ALSO M.B. 41 PG. 117)
.892 acres
Septic Lot 1
L10 - L12
(DE-LINE ONLY)
LAKE NORMAN
STATE OF NORTH CAROLINA
IREDELL COUNTY
I, JAMES R. HOBBS, certify that this plat was drawn under my supervision from an actual survey made under my supervision (deed description recorded in Book AS, page 54(ONE), etc.) (other); that the boundaries not surveyed are clearly indicated as drawn from information found in Book AS, page 54(ONE); that the ratio of precision as calculated is 1: 10,000+; that this plat was prepared in accordance with G.S. 47-30 as amended. Witness my original signature, registration number and seal this 12th day of JULY, A.D., 2004.
Professional Land Surveyor
L-3703
NORTH CAROLINA
PROFESSIONAL
SEAL
L-3703
LAND SURVEYOR
JAMES R. HOBBS
7/12-04
I HEREBY CERTIFY THAT THE SUBDIVISION PLAT SHOWN HEREON HAS BEEN FOUND TO COMPLY WITH THE SUBDIVISION REGULATIONS OF THE COUNTY OF IREDELL, NORTH CAROLINA. I FURTHER CERTIFY THAT ALL ROADS, UTILITIES, AND OTHER REQUIRED IMPROVEMENTS HAVE BEEN INSTALLED IN AN ACCEPTABLE MANNER AND THAT AN AGREEMENT AND SECURITY FOR COMPLETION OF THESE IMPROVEMENTS IN THE REQUIRED IMPROVEMENTS IN AN AMOUNT AND MANNER SATISFACTORY TO THE COUNTY OF IREDELL HAS BEEN RECEIVED, AND THAT THE FINAL PLAT FOR THIS PLAT IN THE AMOUNT OF $ [illegible] HAS BEEN FILED WITH AND APPROVED BY THE SUBDIVISION ADMINISTRATOR FOR RECORDING IN THE REGISTER OF DEEDS.
SUBDIVISION ADMINISTRATOR
STATE OF NORTH CAROLINA
COUNTY OF IREDELL
I, [illegible], a Notary Public of said County and State, do hereby certify that [illegible] personally appeared before me this day and acknowledged the execution of the foregoing instrument.
Witness my hand and official seal, this the [illegible] day of [illegible], 2004.
My commission expires [illegible]

FAST TRACK LOW PRESSURE MANIFOLD DOSING
FOR A
25% REDUCTION SEPTIC SYSTEM
FOR
SUBSURFACE WASTEWATER DISPOSAL ON AN OFF-SITE EASEMENT
168 CARLTON DRIVE
MOORESVILLE NC 28117

Prepared for
Bob Jones
Golsch Jones Builders, Inc.
136 Sumter Drive
Mooresville, North Carolina 28117
704 213-7307
BobJones@GolschBuilders.com

Prepared by:
Toney C. Jacobs, LSS
Jacobs On-Site Development, Inc.
Mooresville, North Carolina 28117
704 662-9845
toneycjacobs@gmail.com

April 30, 2014
Revised May 12, 2014

Copy:
Ben Aldridge, REHS
Iredell County Health Dept.
Mooresville NC 28117
baldridge@co.iredell.nc.us

Toney C. Jacobs, LSS

DESIGN SPECIFICATIONS

168 Carlton Drive

Daily design flow	480 gpd.
Septic tank size	1000 gal.
Pumping tank size	1000 gal.
Initial system	402' of 25% reduction, 3 @ 134'
Effluent loading rate, Initial system	0.3 gpd/ft^2
Total length and diameter of supply pipe	approx. 770 ft. 2" SCH 40 PVC
Number and length of laterals	3 @ 134' end-fed
Trench depth	30" maximum on low side
Flow rate through the system	16.5 gpm from 3 each ½" sch 80 taps from a 3" manifold
Elevation head	Approx. 53' (to be verified by installer)
Pressure head	2.0'
Friction head	5.5'
20% contingency	12.5'
Total head	72.6'
Pump requirements	16.5 gpm at 72.6' of head; use Goulds WE15H pump, pump and compatible panel or equivalent
Dosing volume	240 gal. – 2.0 doses/day at design flow
Depth of water pumped per dose	calculated to specific tank by measure or dealer engineering specifications (1 cubic ft. of water equals 7.48 gal.)
Pump run per dose	Approx. 14.5 min.
Check valve	yes
Siphon break hole	no
Effluent loading rate, Repair system	0.3 gpd/ft^2
Repair system	pressure distribution 25% reduction in 3 lines at 134' designated on site plan

On-site Wastewater Section

SOIL/SITE EVALUATION for ON-SITE WASTEWATER SYSTEM

Lot #: 166 Carlton Dr
File #:
AppID:

Owner: Bob Towns
Address: 166 Carlton Dr
Proposed Facility: 4BR SF
Design Flow (.1949) 480
Location of Site: off Fern Hill

Applicant:
Date Evaluated: 4/30/14
Property Size: 5 Apx 0.89AC
Property Recorded:

Water Supply: [ ] Public [V] Individual [ ] Well [ ] Spring [ ] Other
Evaluation Method: [ ] Auger Boring [ ] Pit [ ] Cut
Type of Wastewater: [ ] Sewage [ ] Industrial Process [ ] Mixed

PROFILE #	.1940 Landscape Position/ Slope%	Horizon Depth (IN.)	SOIL MORPHOLOGY .1941 Structure/ Texture	.1941 Consistence Mineralogy	b PROFILE FACTORS .1942 Soil Wetness/ Color	.1943 Soil Depth (IN.)	.1956 Sapro Class	.1944 Restr Horiz	Profile Class & LTAR
1	NP LS 30%	0-7	g sl	fri, NSNA 1:1	NA	NA	NA	NA	0.3
		7-12	m sCl	fri, SSSP 1:1					
		12-49	wt sBK scl/sc	fri, SSSP					
2	N 20%	0-8	g fsl	fri NSNP 1:1	NA	NA	NA	NA	0.3
		8-23	m scl	fri SSSP					
		23-49	wt sBK scl	fri SSSP	incl. of clay lens 2:1				
3	N NP LS 25%	0-5	g fsl	fri	NA	NA	PS	NA	0.3
		5-22	wt sBK cl	fri SSSP/SSP					
		22-48	g. cSl	fri SSSP/SSP					
4	LS 30-35%	0-5	g fsl	fri SSSP 1:1	HWR plinthite		PS		0.3
		5-16	m sCl	fri NSSP					
		16-27	wm sBK	fri SSSP/SP					
		27-48	g clay	fri wet NSSP					
		48-49	Rx						

Description	Initial System	Repair System
Available Space (.1945)	2	2
System Type(s)	Subs	Subs, C
Site LTAR	0.3	0.3

Other Factors (.1946):
Soil Evaluation By: TD
Others Present:
Site Classification (.1948): PS
Site Evaluation By:
Others Present:

APPROVED MAY 13 2014

BA