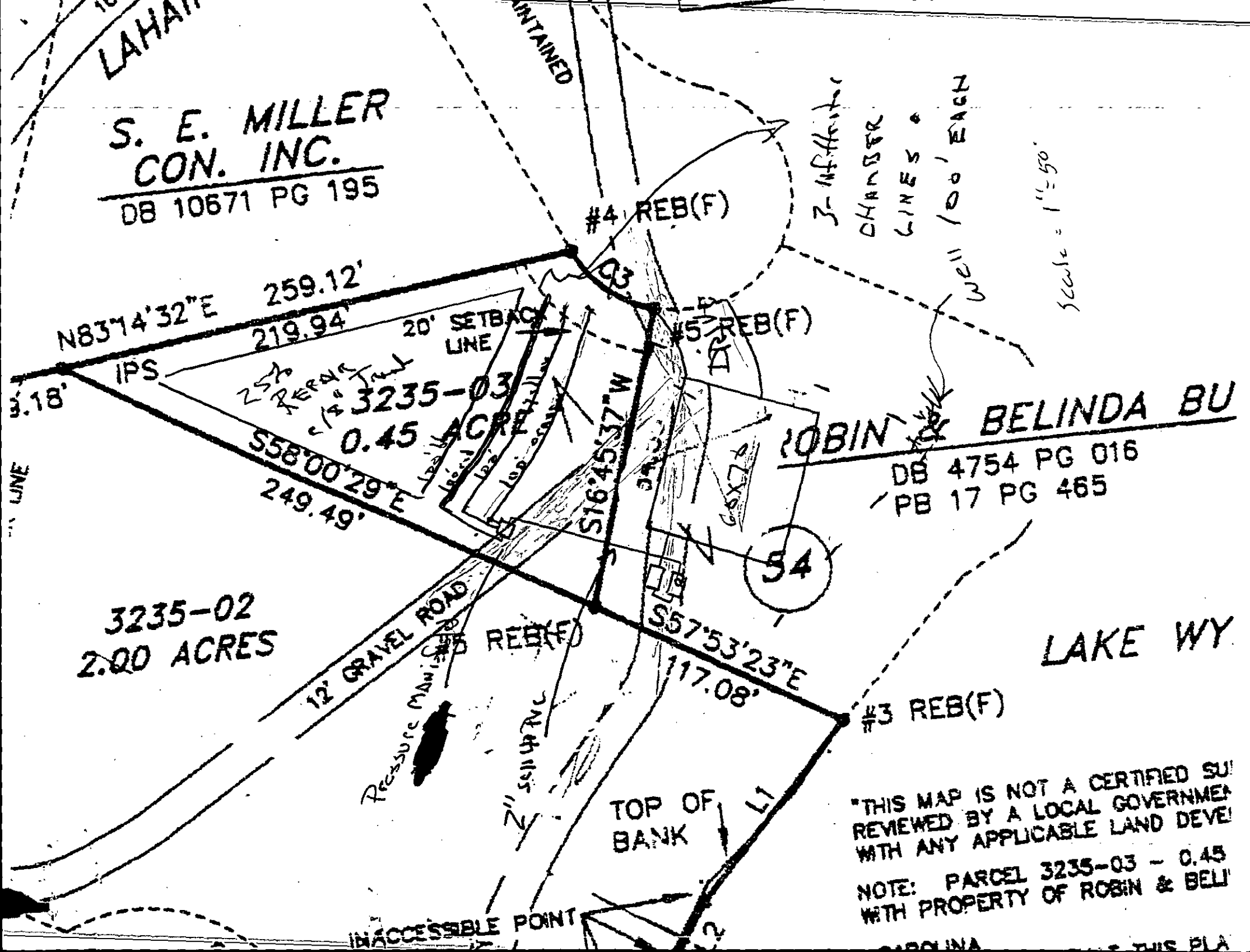


18326 CHALET LN

1/7/2008

duponbj

Groundwater and Wastewater Services File Imaging Project
May 2007
Barcode Font = IDAutomationHC39M


S. E. MILLER CON. INC.
DB 10671 PG 195
#4 REB(F)
#5 REB(F)
N83°14'32"E 259.12'
219.94'
20' SETBACK LINE
IPS
3235-03
0.45 ACRE
S58°00'29"E
249.49'
S16°45'37"W
64.26'
ROBIN & BELINDA BU
DB 4754 PG 016
PB 17 PG 465
54
3235-02
2.00 ACRES
12' GRAVEL ROAD
#6 REB(F)
S57°53'23"E
117.08'
#3 REB(F)
LAKE WY
TOP OF BANK
L1
INACCESSIBLE POINT
Well 100' EACH
Scale = 1" = 50'
"THIS MAP IS NOT A CERTIFIED SU
REVIEWED BY A LOCAL GOVERNME
WITH ANY APPLICABLE LAND DEVE
NOTE: PARCEL 3235-03 - 0.45
WITH PROPERTY OF ROBIN & BELI

① Signatures + Dates

② Fees

③ Agreement Forms
prior to C.A.
Release

DESIGN SPECIFICATIONS FOR ROBIN BUTLEER LOT :

HAWK HAVEN DRIVE, LAKE WYLIE

Daily design flow:	360 gpd. - 3-bedroom house
Septic tank size:	1500 gal. (2 compartments)
Pumping tank size:	1000 gal.
Effluent loading rate:	0.3 gpd/sf ; 0.25 gpd/sf for repair
Total length and diameter of supply manifold:	app. 100' lf 2" sch 40 PVC
Number and length of laterals:	3 @ 100' -- 25% reduction system
Flow rate through the system:	24 gpm (1/2 in. SCH 24 taps with 2 ft. head on pressure manifold)
Elevation head:	Approx. 11'
Pressure head:	2.0'
Friction head:	approx. 2.5'
20% contingency	3.1'
Total head:	18.6'
Pump requirements:	24 gpm at 18.6' of head; use Goulds WE05H pump or equivalent with compatible electrical
Dosing volume:	220 gal. – 1.6 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 gals.)
Pump run per dose:	approx. 9.2 min.
Check valve:	No
Siphon break hole:	No

FEE: _____ **AUTHORIZATION FOR WASTEWATER SYSTEM CONSTRUCTION** AC
DATE: _____ **VOID SIXTY (60) MONTHS FROM DATE OF ISSUANCE**

DATE: 11/19/02 PERMIT NO: 50493
PARCEL NO: 217-14-334

JOB LOCATION ADDRESS: Hawthaven Drive
PROPERTY OWNER: Crescent Resources
BUILDING CONTRACTOR: _____
SUBDIVISION NAME: _____
AUTHORIZATION ISSUED BY: Brenda Sorey DATE: 11/19/02
DEHNR AUTHORIZED AGENT

AUTHORIZATION CONDITIONS

1. WASTEWATER SYSTEM CONSTRUCTION AND INSTALLATION MUST MEET ALL CONDITIONS AND SPECIFICATIONS AS SET FORTH IN IMPROVEMENT PERMIT NO. 50493, AND THE ATTACHED SITE PLAN WITH SYSTEM DETAILS. CONSTRUCTION AND INSTALLATION MUST ALSO MEET ALL REQUIREMENTS SET FORTH IN THE RULES GOVERNING SANITARY SEWAGE COLLECTION, TREATMENT, AND DISPOSAL AND ANY OTHER APPLICABLE RULES AND LAWS.

2. AN INSTALLATION, CONSTRUCTION, ALTERATION AND/OR REPAIR APPROVAL MUST BE SECURED PRIOR TO INSTALLATION OF THE SEPTIC TANK SYSTEM. THE INSTALLER OF THE SYSTEM SHALL BE A REGISTERED SEPTIC TANK CONTRACTOR WITH MECKLENBURG COUNTY HEALTH DEPARTMENT.

3. ANY ALTERATION IN SITE OR SOIL CONDITIONS (INCLUDING LOCATION OF STRUCTURES AND APPURTENANCES) OR MODIFICATION IN USE, DESIGN WASTEWATER FLOW, OR WASTEWATER CHARACTERISTICS AS SPECIFIED IN THE ASSOCIATED IMPROVEMENT PERMIT AND APPLICATION, MAY SUBJECT THIS AUTHORIZATION AND ASSOCIATED PERMIT(S) TO REVOCATION.

4. OTHER CONDITIONS: Install according to approved site plans
Assessment forms to be on file prior to CA

OWNER CERTIFICATION

I CERTIFY THAT THERE HAVE BEEN NO ALTERATIONS IN SITE OR SOIL CONDITIONS OR MODIFICATIONS TO FACILITY, WASTEWATER FLOW, OR WASTEWATER CHARACTERISTICS FROM THOSE SPECIFIED IN THE ORIGINAL APPLICATION OR ASSOCIATED IMPROVEMENT PERMIT UNLESS AUTHORIZED IN WRITING BY THE MECKLENBURG COUNTY HEALTH DEPARTMENT. I ALSO UNDERSTAND THAT ANY SUCH ALTERATIONS, MODIFICATIONS, OR FALSE INFORMATION ARE GROUNDS FOR REVOCATION OF PERMITS AND AUTHORIZATION TO CONSTRUCT.

SIGNATURE OF OWNER/OWNER'S REPRESENTATIVE DATE 11/19/02

Permit Number: 50998

Tax Number: 27-44-334

The IMPROVEMENT PERMIT is subject to revocation if site plans or the intended use change. There is to be NO grading, filling or disturbance of the soil in the area of the septic tank system or repair area.

CONSTRUCTION AUTHORIZATION must be obtained prior to receiving a Building Permit. The Construction Authorization is NOT transferable. Do not clear, grade, fill or disturb soil prior to obtaining a Construction Authorization.

Domestic-type wastewater only. No industrial process wastewater may be discharged into the system.

Basement: ___ Yes X No ___ Partial Basement

Type Primary Wastewater System Type (circle one): I II (III) IV V VI

___ Conventional
___ Prefabricated, permeable block panel system
___ Shallow Placed Conventional
___ Low Pressure Pipe
___ Large Diameter Pipe
___ Fill
___ Other
X Innovative or Experimental:
___ IWWS-93-1
___ IWWS-93-2
___ IWWS-94-1

3 Long-term acceptance rate	360 Max gallons/day wastewater flow	900 Absorption Area (sq ft)	9' Trench spacing (min. on centers)
Yes Serviced by private well	1500 Gallon septic tank	300 Total trench length (ft)	30" Maximum trench depth (At least 12" of provisionally suitable soil must remain between trench bottom and unsuitable soil conditions)
3 Bedrooms in residence	1000 Gallon pump tank	N/A Depth of stone	

Any surface waters present: Yes Type: Lake Wylie Minimum separation distance: 50'

Site modifications required:

Additional Conditions: Install according to Design Specifications on plans submitted by Tony Jacobs.

Repair Area System Type Type (circle one): I II (III) IV V VI

___ Conventional
___ Prefabricated, permeable block panel system
___ Shallow Placed Conventional
___ Low Pressure Pipe
___ Large Diameter Pipe
___ Fill
___ Other
X Innovative or Experimental:
___ IWWS-93-1
___ IWWS-93-2
___ IWWS-94-1

1080 Absorption Area (Sq ft) 360 Total Trench Length (Ft)	N/A Depth of Stone Trench	9' Trench spacing (min. on centers)	30" Maximum Trench Depth

For existing system, enter the year originally installed:

The undersigned, an authorized agent of the MECKLENBURG COUNTY HEALTH DEPARTMENT, certifies that the Department has approved the Request for t Job Location contained in this document. This approval is granted in accordance with the provisions of Laws and Rules For Sewage, Treatment and Disposal in eff at the time of issuance of the permit and is subject to the following provisions:

- No work shall be conducted on the septic tank system until an Installation, Construction, Alteration and/or Repair Approval is granted by this Departme
- This Improvement permit is transferable.

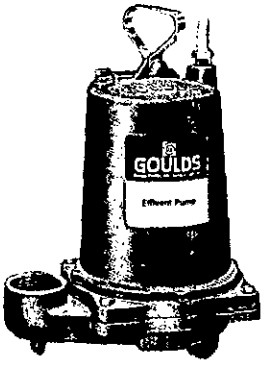
Brenton Sawyer 11/19/02
DEHNR Authorized Agent Date

Tony Jacobs CPSS 11/19/02
Owner/Agent Signature Date

MECKLENBURG COUNTY
HEALTH DEPARTMENT
ENVIRONMENTAL HEALTH DIVISION
c/o HAL MARSHALL CTR.
SUITE 211
700 N. TRYON ST.
CHARLOTTE, N.C. 28202.
(704) 336-5102

NORTH CAROLINA DEPARTMENT OF
ENVIRONMENTAL, HEALTH,
AND NATURAL RESOURCES
DIVISION OF ENVIRONMENTAL HEALTH
ON-SITE WASTEWATER SECTION

GOULDS PUMPS



Submersible Effluent Pump

MODEL

3885

PROSURANCE AVAILABLE FOR RESIDENTIAL APPLICATIONS.

APPLICATIONS

Specifically designed for the following uses:

- Homes
- Farms
- Trailer courts
- Motels
- Schools
- Hospitals
- Industry
- Effluent systems

SPECIFICATIONS

Pump

- Solids handling capabilities: ¾" maximum.
- Discharge size: 2" NPT.
- Capacities: up to 140 GPM.
- Total heads: up to 128 feet TDH.
- Temperature: 104°F (40°C) continuous 140°F (60°C) intermittent.
- See order numbers on reverse side for specific HP, voltage, phase and RPM's available.

FEATURES

■ **Impeller:** Cast iron, semi-open, non-clog with pump-out vanes for mechanical seal protection. Balanced for smooth operation. Silicon bronze impeller available as an option.

■ **Casing:** Cast iron volute type for maximum efficiency. 2" NPT discharge.

■ **Mechanical Seal: SILICON CARBIDE VS. SILICON CARBIDE** sealing faces. Stainless steel metal parts, BUNA-N elastomers.

■ **Shaft:** Corrosion-resistant, stainless steel. Threaded design. Locknut on three phase models to guard against component damage on accidental reverse rotation.

■ **Fasteners:** 300 series stainless steel.

■ Capable of running dry without damage to components.

■ Designed for continuous operation when fully submerged.

MOTORS

■ Fully submerged in high-grade turbine oil for lubrication and efficient heat transfer.

■ **Class B insulation.**

Single phase:

- Built-in overload with automatic reset.
- All single phase models feature capacitor start motors for maximum starting torque.
- ⅓ and ½ HP – 16/3 SJTOW with 115 V or 230 V three prong plug.
- ¾-2 HP – 14/3 STOW with bare leads.

Three phase:

- Overload protection must be provided in starter unit.
- ½-2 HP – 14/4 STOW with bare leads.

■ **Designed for Continuous Operation:** Pump ratings are within the motor manufacturer's recommended working limits, can be operated continuously without damage.

■ **Bearings:** Upper and lower heavy duty ball bearing construction.

■ **Power Cable:** Severe duty rated, oil and water resistant. Epoxy seal on motor end provides secondary moisture barrier in case of outer jacket damage and to prevent oil wicking. 20 foot standard with optional lengths available.

■ **O-ring:** Assures positive sealing against contaminants and oil leakage.

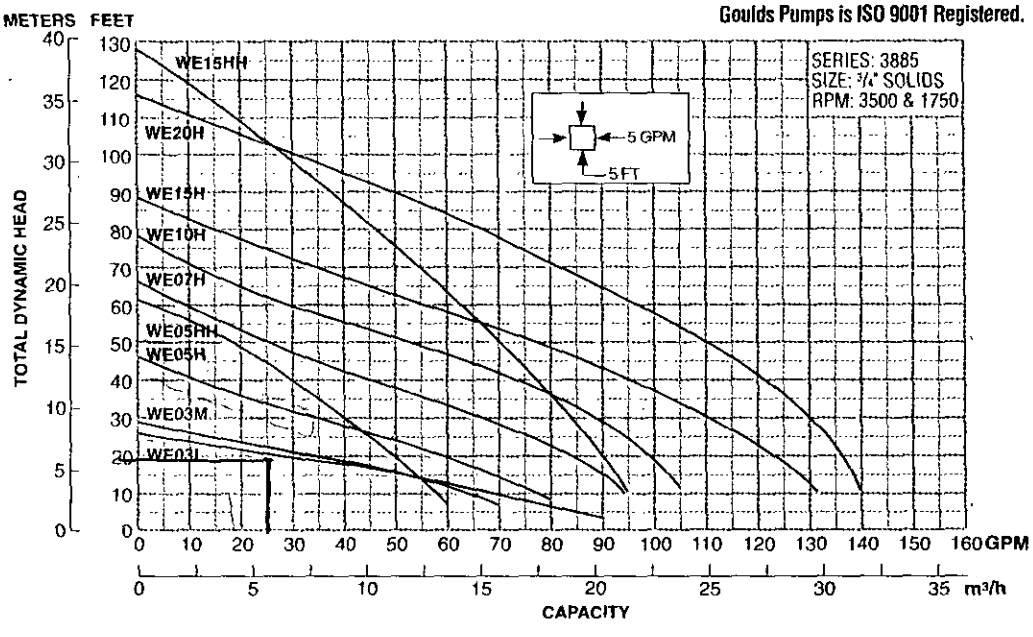
■ Consult factory for information on CSA listed models.

AGENCY LISTINGS

Canadian Standards Association File #LR38549

Underwriters Laboratories File #83318

Goulds Pumps is ISO 9001 Registered.



Goulds Pumps

ITT Industries

© 1999 Goulds Pumps
Effective January, 1999
B3885

Department of Environment, Health, and Natural Resources
Division of Environmental Health
On-site Wastewater Section

AS

Sheet: 1
Property ID: PO 217-143-34
Lot #: 3
File #: 5099B
Code: 2

SOIL/SITE EVALUATION for ON-SITE WASTEWATER SYSTEM

Owner: Crescent Resources, Inc.
Applicant: Toney C. Jacobs
Address: PO Box 1003, Charlotte, N. C. 28201
Date Evaluated: 11/05/2002
Proposed Facility: Residence
Design Flow (.1949):
Property Size: .45a
Location of Site: Hawkhaven Drive
Property Recorded:
Water Supply: [ ] Public [x] Individual [x] Well [ ] Spring [ ] Other
Evaluation Method: [ ] Auger Boring [x] Pit [ ] Cut
Type of *Wastewater:* [x] Sewage [ ] Industrial Process [ ] Mixed

PROFILE #	.1940 Landscape Position/ Slope%	Horizon Depth (IN.)	SOIL MORPHOLOGY .1941 .1941 Structure/ Texture	SOIL MORPHOLOGY .1941 .1941 Consistence Mineralogy	OTHER PROFILE FACTORS .1942 Soil Wetness/ Color	.1943 Soil Depth (IN.)	.1956 Sapro Class	.1944 Restr Horiz	Profile Class & LTAR
1	LS, 8	0-9	GR/SL	FR/SEXP/NS/NP	2.5Y7/1@35"	47	N/A	NONE	US, IV .25GPD/FT^2
		9-28	SBK/CL	FR/SEXP/SS/SP					
		28-47	ABK/SBK/C	FI/SEXP/S/P					
2	"	0-11	GR/SL	FR/SEXP/NS/NP	>48" TO SOIL WETNESS	48	"	"	PS, IV .3GPD/FT^2
		11-36	SBK/C	FI/SEXP/S/P					
		36-48	SBK/CL	FR/SEXP/SS/SP					

Description	Initial System	Repair System
Available Space (.1945)	PS	PS
System Type(s)		
Site LTAR	.3GPD/FT^2	.275GPD/FT^2

Other Factors (.1946): _____
Site Classification (.1948): PROVISIONALLY SUITABLE
Evaluated By: W. R. Marlin, LSS, 11/5/02. W. R. Marlin
Others Present:

FILE # 50993

COMMENTS 1007 Beaver

LANDSCAPE POSITION

R-RIDGE
S-SHOULDER SLOPE
L-LINEAR SLOPE
FS-FOOT SLOPE
N-NOSE SLOPE
H-HEAD SLOPE
CC-CONCLAVE SLOPE
CV-CONVEX SLOPE
T-TERRACE
FP-FLOOD PLAIN

GROUP	TEXTURE	.1955 LTAR
I	S-SAND LS-LOAMY SAND	1.2-0.8
II	SL-SANDY LOAM L-LOAM	0.8-0.6
III	SI-SILT SICL-SILTY CLAY LOAM CL-CLAY LOAM SCL-SANDY CLAY LOAM	0.6-0.3
IV	SC-SANDY CLAY SIC-SILTY CLAY O-ORGANIC	0.4-0.1

CONSISTENCE

MOIST

VFR-VERY FRIABLE
FR-FRIABLE
FI-FIRM
VFI-VERY FIRM
EFI-EXTREMELY FIRM

WET

NS-NON-STICKY
SS-SLIGHTLYSTICKY
S-STICKY
VS-VERY STICKY
NP-NON-PLASTIC
SP-SLIGHTLYSTICKY
P-PLASTIC
VP-VERY PLASTIC

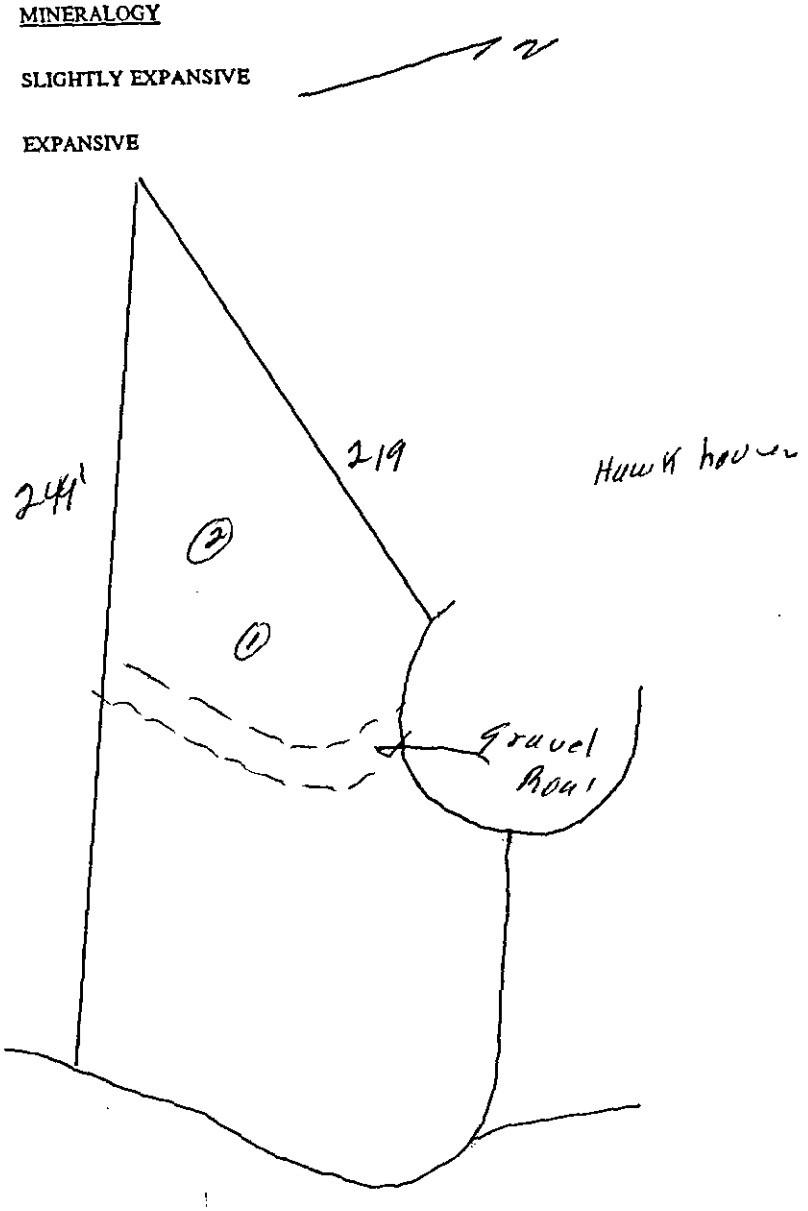
STRUCTURE

SG-SINGLE GRAIN
M-MASSIVE
CR-CRUMB
GR-GRANULAR
SBK-SUBANGULAR BLOCKY
ABK-ANGULAR BLOCKY
PL-PLATY
PR-PRISMATIC

MINERALOGY

SLIGHTLY EXPANSIVE

EXPANSIVE



FEE: 200 CK 1202 — APPLICATION FOR IMPROVEMENT PERMIT FOR RESIDENTIAL SITE INDIVIDUAL WATER AND WASTEWATER SYSTEMS PROGRAM — 1 1 CRT

DATE: 11/4/02 JC

TYPE APPLICATION: ✓ NEW SYSTEM __ EXPANSION/ ALTERATION OF EXISTING SYSTEM __ REPAIR OF EXISTING SYSTEM

NORTH CAROLINA
DEPARTMENT OF ENVIRONMENT,
HEALTH, AND NATURAL RESOURCES
DIVISION OF ENVIRONMENTAL HEALTH
ON-SITE WASTEWATER SECTION

FILE #: 50598

PROPERTY INFORMATION (FROM ENGINEERING FORM) FOR JOB LOCATION:

TAX/PARCEL NUMBER: PO 217-143-34

STREET ADDRESS: HAWKHAVEN Dr

SUBDIVISION OR MOBILE HOME PARK NAME:

LOT NUMBER: 54 plus 0.451C 3235-03 parcel

TYPE OF BUILDING (CHECK ONE):

__ SINGLE MOBILE HOME(S) __ MODULAR HOME (M)
__ DOUBLE WIDE (D) __ MULTIPLE FAMILY (U)
__ HOUSE (H) __ OTHER (O)

TOWNSHIP (CHECK ONE):

✓ 0 MECKLENBURG __ 4 PINEVILLE
__ 1 CHARLOTTE __ 5 MATTHEWS
__ 2 DAVIDSON __ 6 HUNTERSVILLE
__ 3 CORNELIUS __ 7 MINT HILL

HEATED SQUARE FOOTAGE:

NUMBER OF BEDROOMS: NUMBER OF OCCUPANTS:

CLOSING DATE_____

FOUNDATION FOR RESIDENCE:

__ WITHOUT BASEMENT __ WITH BASEMENT /PLUMBING
__ ON SLAB __ WITH BASEMENT /NO PLUMBING
__ CRAWL SPACE

IF EXPANSION/ALTERATION OF EXISTING SYSTEM, DESCRIBE THE PROPOSED BUILDING ADDITION:

WILL THERE BE A HOME BUSINESS IN THE RESIDENCE: __ YES ✓ NO TYPE: _____

WATER SUPPLY (CHECK ONE): __ COMMUNITY (C) __ MUNICIPAL (M) ✓ PRIVATE WELL (P)
__ SHARED WELL (S) __ OTHER 'SPRINGS' (O)

IF ANY OF THE FOLLOWING ARE LOCATED ON THE PROPERTY, PLEASE SHOW LOCATION ON PLAT:

BURIED CABLES, LANDFILLS, STUMPHOLES __ YES __ NO
EXISTING WASTEWATER SYSTEMS __ YES __ NO
EASTMENTS OR RIGHT-OF-WAYS __ YES __ NO
WELL, SPRINGS OR WATERLINES __ YES __ NO
DESIGNATED WETLANDS __ YES __ NO

PROPERTY OWNER:	LEGAL AGENT FOR PROPERTY OWNER, IF APPLICABLE:
NAME: (LAST) Crescent (FIRST) Resources Inc (MI)	NAME: (LAST) Jacobs (FIRST) Toney (MI) C
ADDRESS: PO Box 1003	DAYTIME PHONE: (704) 663 - 6905
CITY: Char STATE: NC ZIP: 28201	
DAYTIME PHONE: (704) 663 - 6905	

WHAT DATE WAS THE PROPERTY ORIGINALLY DEEDED AND RECORDED? New

An Improvement Permit is subject to suspension or revocation if site plans or the intended use change or if information submitted in this application is falsified or changed. The undersigned, owner, or legal agent for the owner, of the property described above as the "Job Location" has read the foregoing application, acknowledges that the contents of same are true, and authorizes agents of the Mecklenburg County Health Department to enter onto the property for the purpose of processing this request.

SIGNED: Toney C Jacobs Agent DATE: 11/4/02

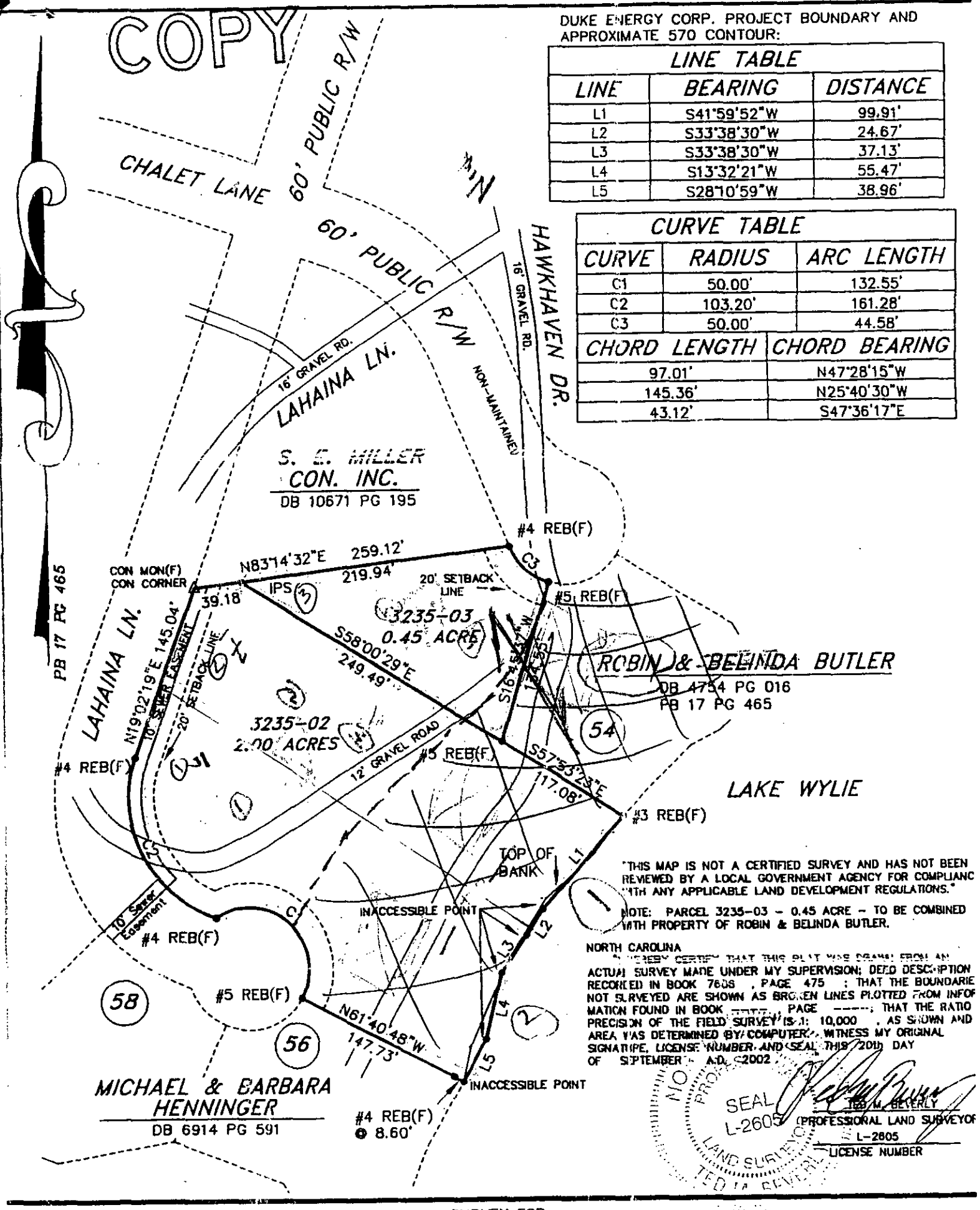
MECKLENBURG COUNTY HEALTH DEPARTMENT
ENVIRONMENTAL HEALTH DIVISION
c/o HAL MARSHALL CTR., SUITE 211, 700 N. TRYON ST., CHARLOTTE, N.C. 28202., (704) 336-5102

COPY

DUKE ENERGY CORP. PROJECT BOUNDARY AND APPROXIMATE 570 CONTOUR:

LINE TABLE		
LINE	BEARING	DISTANCE
L1	S41°59'52"W	99.91'
L2	S33°38'30"W	24.67'
L3	S33°38'30"W	37.13'
L4	S13°32'21"W	55.47'
L5	S28°10'59"W	38.96'

CURVE TABLE		
CURVE	RADIUS	ARC LENGTH
C1	50.00'	132.55'
C2	103.20'	161.28'
C3	50.00'	44.58'
CHORD LENGTH		CHORD BEARING
97.01'		N47°28'15"W
145.36'		N25°40'30"W
43.12'		S47°36'17"E



"THIS MAP IS NOT A CERTIFIED SURVEY AND HAS NOT BEEN REVIEWED BY A LOCAL GOVERNMENT AGENCY FOR COMPLIANC WITH ANY APPLICABLE LAND DEVELOPMENT REGULATIONS."

NOTE: PARCEL 3235-03 – 0.45 ACRE – TO BE COMBINED WITH PROPERTY OF ROBIN & BELINDA BUTLER.

NORTH CAROLINA

I, HEREBY CERTIFY THAT THIS PLAT WAS DRAWN FROM AN ACTUAL SURVEY MADE UNDER MY SUPERVISION; DEED DESCRIPTION RECORDED IN BOOK 7605 , PAGE 475 ; THAT THE BOUNDARIE NOT SURVEYED ARE SHOWN AS BROKEN LINES PLOTTED FROM INFOF MATION FOUND IN BOOK ____, PAGE ____; THAT THE RATIO PRECISION OF THE FIELD SURVEY IS 1: 10,000 , AS SHOWN AND AREA WAS DETERMINED BY COMPUTER. WITNESS MY ORIGINAL SIGNATURE, LICENSE NUMBER AND SEAL THIS 20th DAY OF SEPTEMBER A.D. 2002

SEAL L-2605

Jon M. Beverly
(PROFESSIONAL LAND SURVEYOR
L-2605
LICENSE NUMBER

SURVEY FOR:

CAROLINA CENTERS LLC

1" = 100'