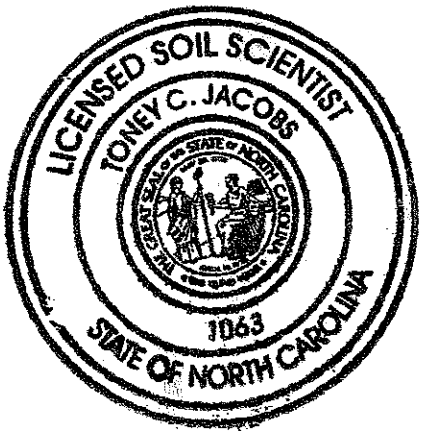
FAST TRACT FOR A
LOW PRESSURE MANIFOLD DISTRIBUTION
25% REDUCTION SEPTIC SYSTEM
FOR
SUBSURFACE WASTEWATER DISPOSAL
Lot 279 The Point – 156 Great Point Drive
MOORESVILLE, NC 28117

Prepared for
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August 3, 2013



Copy: Brady Freeman, EHS
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Mooresville, N.C. 28115
704 902-4191

Toney C. Jacobs, LSS

FAST TRACK

DESIGN SPECIFICATIONS

The Point Lot 279 – 156 Great Point Drive

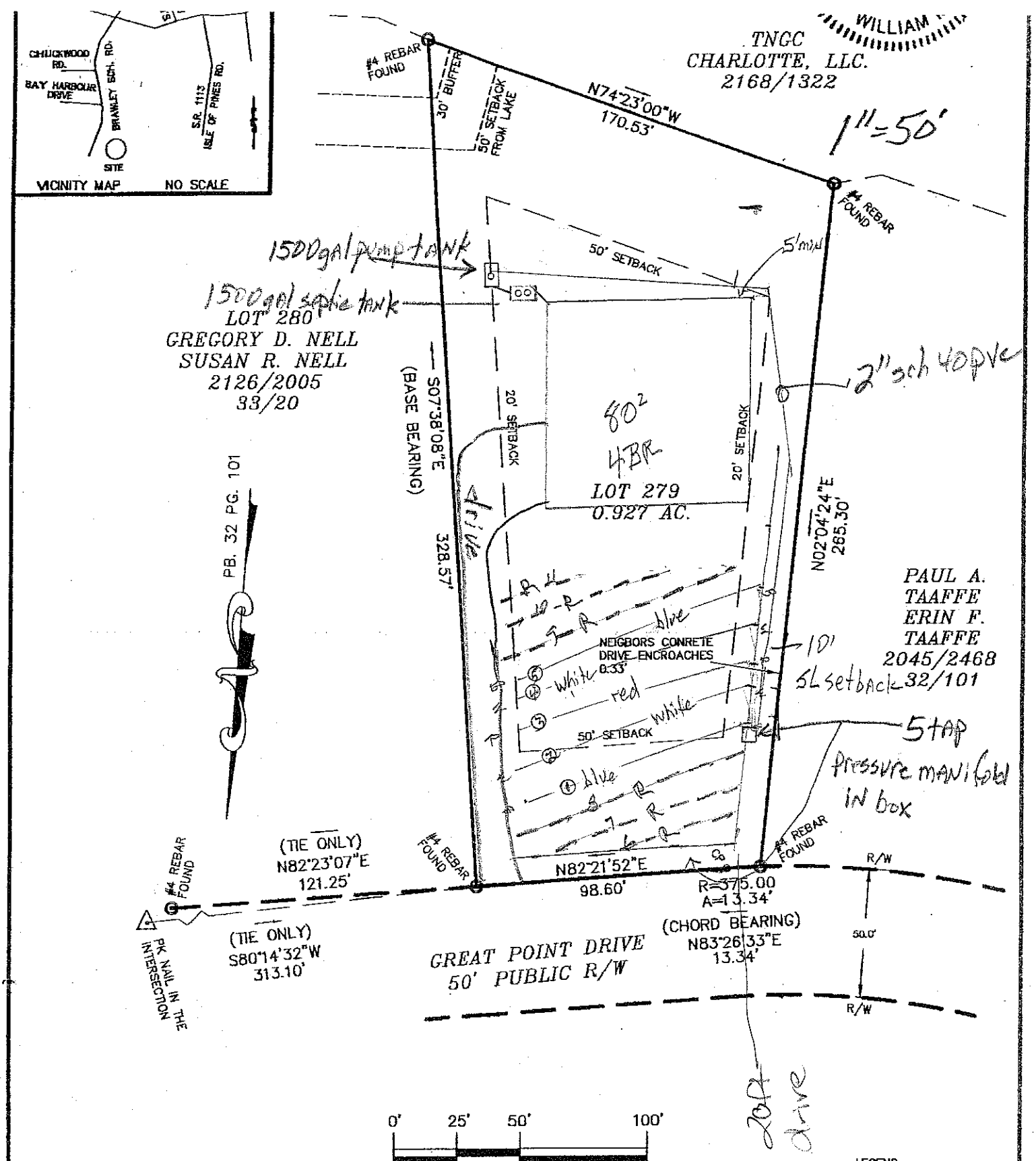
Daily design flow	480 gpd.
Septic tank size	1500 gal. (2 compartments)
Pumping tank size	1500 gal.
Initial system	450' of 25% reduction
Effluent loading rate, Initial system	0.267 gpd/ft^2
Total length and diameter of supply pipe	approx. 280 ft. 2" SCH 40 PVC
Number and length of laterals	5 @ 90', end-fed
Flow rate through the system	35.5 gpm from 5 each ½" sch 40 taps from a 4" manifold
Elevation head	Approx. 20' (to be verified by installer)
Pressure head	2.0'
Friction head	6.0'
20% contingency	5.6'
Total head	33.6'
Pump requirements	35.5 gpm at 33.6' of head; use Orenco ½hp turbin pump, pump and panel MOP Orenco supplied by TCW (Tri-County Wastewater) as package. Reference Tim Bannister (704-201-7514)
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	specified by TCW
Check valve	yes
Siphon break hole	no
Effluent loading rate, Repair system	0.267 gpd/ft^2
Repair system	300' of 50% reduction (T & J Panel)
	approx. 395' designated on site plan

Table: Summary of Primary and Repair Nitrification Line Specifications
106 Cape Code Way

Line No.	*Use*	*Line Color*	*System Type*	*Line Length(ft)*	*Elevation (ft)*
1	system	blue	25% reduction	90 end fed	App. 775
2	system	white	25% reduction	90 end fed	
3	system	red	25% reduction	90 end fed	
4	system	white	25% reduction	90 end fed	
5	system	blue	25% reduction	90 end fed	
6	repair	pink	50% reduction	50 end fed	
7	repair	pink	50% reduction	75 end fed	
8	repair	pink	50% reduction	90 end fed	
9	repair	pink	50% reduction	90 end fed	
10	repair	pink	50% reduction	90 end fed	
11	repair	pink	50% reduction	90 end fed	
				Total system: 450'	
				Total repair: 395'	

Tank		1500 gal. (2 compartment)	
Pump tank		1500 gal.	approx. 767'
House		right rear	approx. 770'

Manifold Information	
Tap size (inches)	½
Tap material	SCH 40 PVC
No. taps	~~4~~ 5
Barrel size (inches)	~~4~~ 5
Barrel Material	SCH 80 PVC
Flow (gpm) tap	7.1



NOTES

1) THIS PROPERTY MAY BE SUBJECT TO ANY EASEMENTS AND/OR RIGHTS OF WAY OF RECORD.
2) ACREAGE COMPUTED BY THE COORDINATE METHOD.
3) UNDERGROUND POWER
4) NO GRID MONUMENT FOUND WITHIN 2000 FEET.

LEGEND

□ = DUKE POWER TRANS.
E.I.P. = EXISTING IRON FOUND
I.P.S. = #4 REBAR SET
R/W = RIGHT-OF-WAY
PDE = PUBLIC DRAINAGE EASEMENT

BOUNDARY SURVEY

OF

156 GREAT POINT DRIVE

LOT 279 THE POINT ON NORMAN, PH. 3, MAP 4

SCALE 1" = 50'

DAVIDSON TWSP., IREDELL CO., N.C.

ACQUIRED BY: KATHRYN A. SCHWARTZ TRUST

FIELD BOOK:
FILE: POINT LOT 279
DC FILE:
TAX MAP NO: 4626903076

Property ID# _____

County Iredell

Owner/client Roger Schwartz

Proposed facility 4 BR Design flow 480

Site location 150 Corinth Point Dr Property size _____

Soil described by RI Others present _____

Antecedent moisture moist Weather hot

Water supply: ( ) public (✓) community ( ) on-site well ( ) spring ( ) other Evaluation method: (✓) auger boring ( ) pit ( ) cut

Type of wastewater: (✓) sewage ( ) industrial process ( ) mixed

SOIL/SITE EVALUATION WORKSHEET

Sheet 1 of 1

Date evaluated Aug 2, 2013

Site LTAR int. 0.3 rep. +0.3

Site classification PS

PROFILE #	LANDSCAPE/SLOPE	DEPTH INCHES	HORIZON	COLOR	MUNSELL	TEXTURE	STRUCTURE	CONSISTENCY MOIST	CONSISTENCY WET	MOTTLES	INCLUSIONS	INCLUSIONS	BOUNDARY	COMMENTS
pit 1	hs 8-15	0-6	A	br		sl	gr	fri	NS NP		1:1			
		6-30	B	red		c	mod SBK	fri	SP		1:1			
		30-45	BC	red-brn		cl	wk SBK	fri	SS SP	few yel brn	1:1			
														PS +0.3
AH 2	hs 8-15	0-6	A+E	lt br		sl	gr	fri	NS NP		1:1			
		6-30	B	red		cl/c	mod SBK	fri	SP		1			
		30-45	BC	red		cl	wk SBK	fri	SS SP		1			
														PS +0.3
AH 3	hs 8-15	0-9	A+E	lt Br		sl	gr	fri	NS NP		1:1			
		9-45	B	red		c	mod SBK	fri	SP		1			
		45-48	BC	red mot		cl	gr	fri	SS SP		1			
														+0.3
AH 4	hs 8-15	0-10	A+E	lt Br		sl	gr	fri	NS NP		1:1			
		10-21	B	red		c	mod SBK	fri	SP		1			
		21-48	BC	red		cl	wk SBK	fri	SS SP		1			
														+0.3