S&ME

OK DWH 2-2-07

To: Iredell County Environmental Health Department

From: Paul G. Penninger, LSS
Kathleen Saunders, LSSIT
Martin Mabe, Project Manager

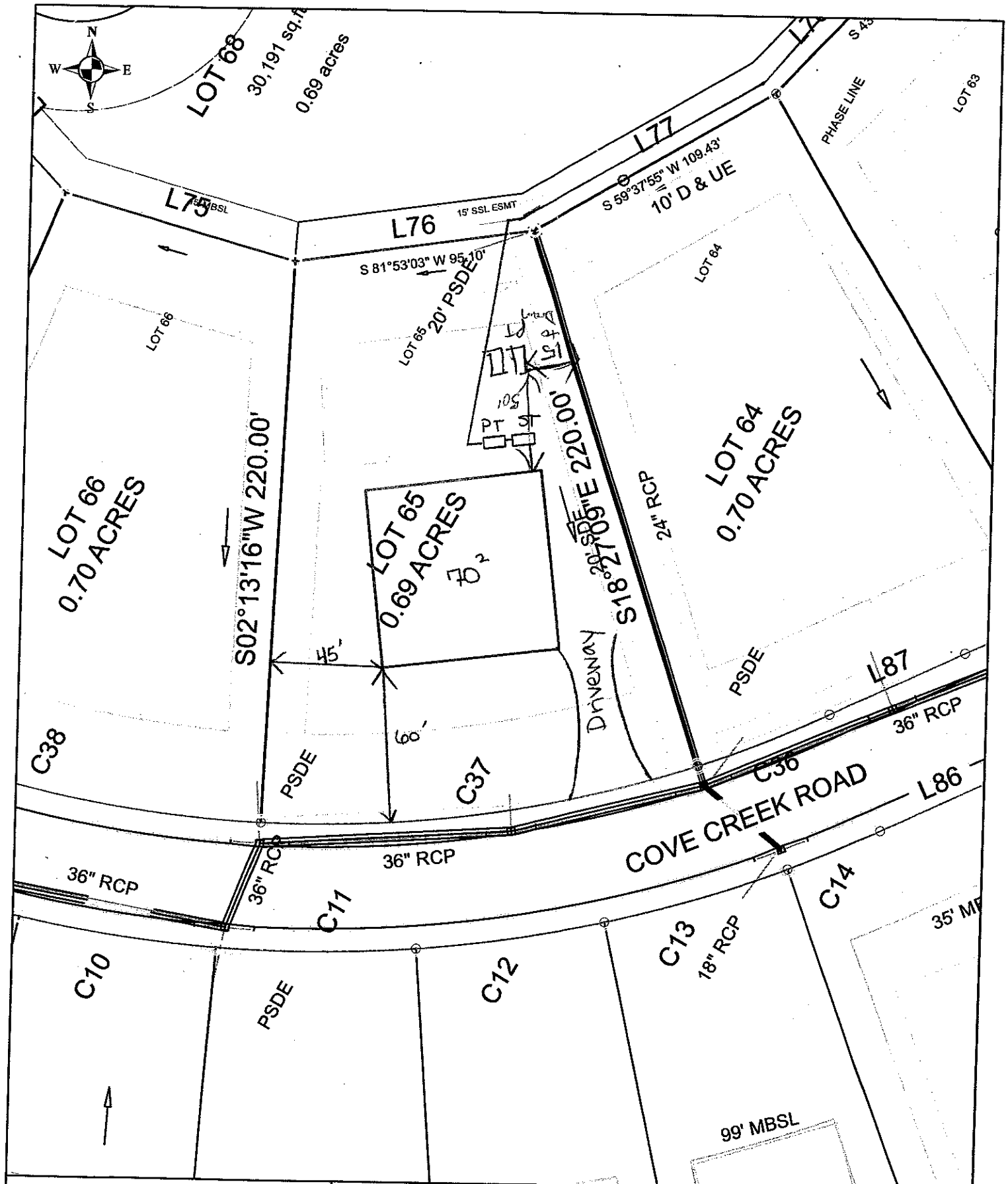
RE: Chesapeake Pointe Subdivision - Chesapeake Pointe, LLC - Lot 65 Fast Track

Date: January 24, 2007

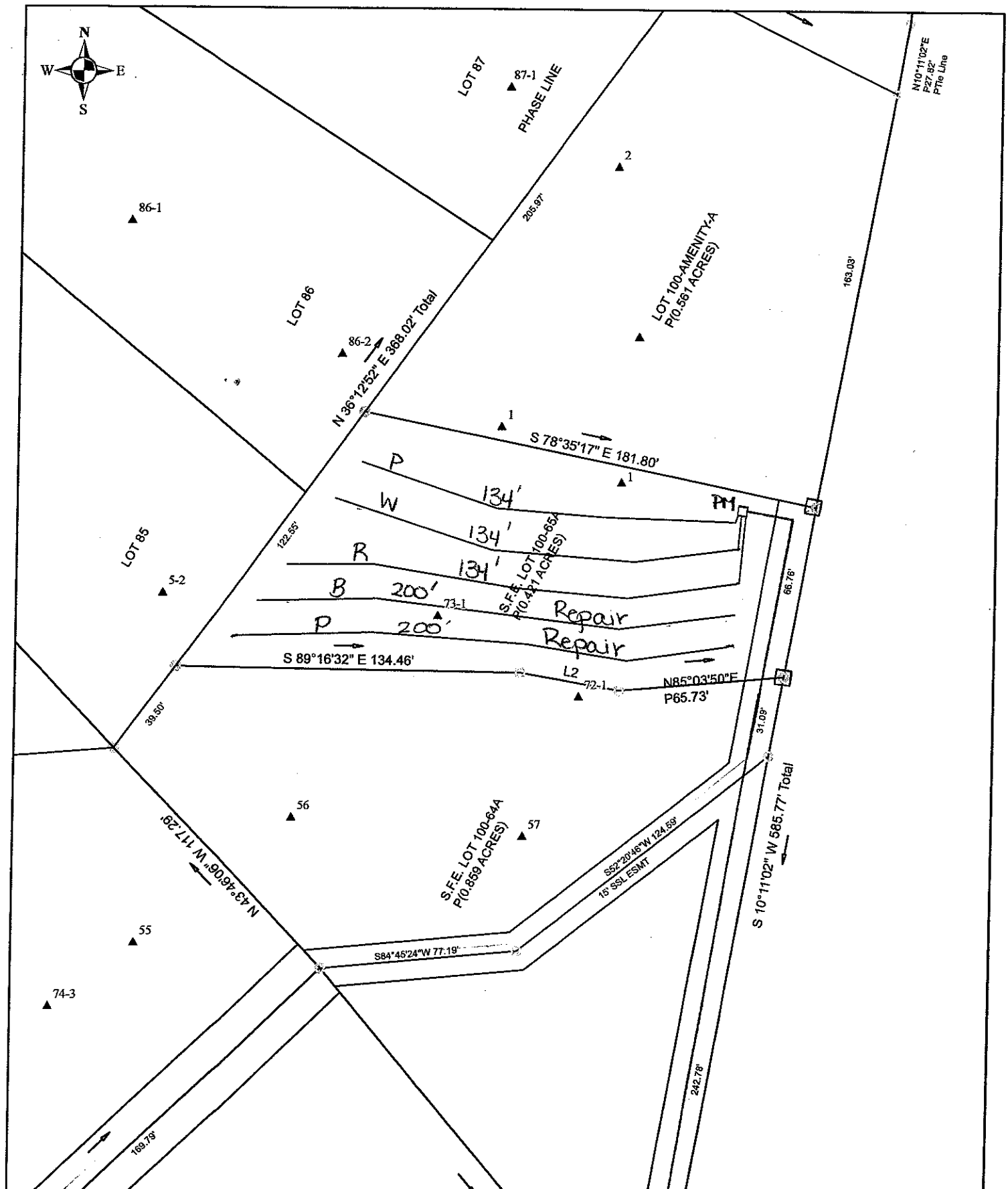
Attached is the Fast Track information required to place Lot 65 Chesapeake Pointe on your developer work list to review the septic system layouts. Please call when you are ready to review the lot and we will meet you on the site.

The attached information is not an Improvement Permit or Authorization to Construct, and is only to assist the Iredell County Environmental Health Department (ICHD) with the site evaluation. The ICHD has to approve each lot and only the ICHD can issue these permits. The system should be installed according to the ICHD permits, policies, and NC rules. If the ICHD wishes to change tank locations, distribution devices, etc., this can be shown on the Improvement Permit.

All information and specifications were prepared in conjunction with the Fast Track Program for Iredell County and are for the sole use of Chesapeake Pointe, LLC in acquiring permits under the Fast Track Program. All soil work has been approved by David Hinson of the Iredell County Health Department. It is ultimately the Iredell County Health Department's responsibility to verify all specifications before permitting and/or septic system installation.



Scale: 1 inch equals 50 feet	S&ME	Lot 65 Chesapeke Point	FIGURE
Drawn by: JBP	ENVIRONMENTAL SERVICES • ENGINEERING • TESTING	Detailed, Scaled Site Plan	1
Reviewed by: KS		Iredell County, NC	
Date: December, 2006		S&ME Project #1588-04-011	



Scale: 1 inch equals 50 feet	S&ME	S.F.E. Lot 100-65A Chesapeke Point	FIGURE
Drawn by: JBP		Detailed, Scaled Site Plan	1
Reviewed by: KS		Iredell County, NC	
Date: December, 2006	ENVIRONMENTAL SERVICES · ENGINEERING · TESTING	S&ME Project #1588-04-011	

Lot 65 Chesapeake Pointe Fast Track Septic System Information

Number of Bedrooms	**4**
[redacted] Crawl	**[redacted]**
Design Flow (gpd)	**480**
Primary System LTAR (gpd/ft2)	**0.3**
Primary System Type	**25% Reduction**
No. Lines	3 (See Table)
Total Linear Feet	402
Trench Width	3' min.
Trench Spacing	9' min.
Pump Required	Yes
Distribution Device	Pressure Manifold
Maintenance Agreement Required	No
Length and Diameter of Supply Pipe	905' of 2" SCH 40 PVC
Flow Rate through the system	16.5 gpm
Elevation head	Approx. 45.5'
Pressure head	2.0'
Friction head	4.1'
20% Contingency	10.3'
Total Head	61.9
Pump Requirements	16.5 gpm @ 61.9' of head To be designed by installer
Maximum Dosing Volume	240 gal -2.0 doses/day @ design flow
Volume 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	Yes
Repair System	**LP PPBPS**
Total Linear Feet	400
Repair Loading Rate	0.25

Table: Summary of Primary and Repair Nitrification Line Specifications

Line No.	Use	Line Color	System Type	Line Length (Ft.)	Rod Reading Elevation (Ft.)
1	System	Pink	25% Reduction	134 endfed	838.7
2	System	White	25% Reduction	134 endfed	
3	System	Red	25% Reduction	134 endfed	
4	Repair	Blue	LP PPBPS	200	
5	Repair	Pink	LP PPBPS	200	833.09
				Total System: 402'	
				Total Repair: 400'	

Tank	Red	1000 gal (2 compartment)	799.19
Pump Tank	Red	1000 gal.	799.19
House	Blue		797.53

Manifold Information	
Tap Size (In.)	1/2
Tap Material	SCH 80 PVC
No. Taps	3
Barrel Size (In.)	4
Barrel Material	SCH 80 PVC
Flow (gpm)/Tap	5.5

Note: System and repair located offsite on Easement 65A.
Elevations provided by surveyor and should be verified before obtaining an ATC.

S&ME

To: Iredell County Environmental Health Department

From: Paul G. Penninger, LSS
Martin Mabe MEM

RE: Chesapeake Pointe Subdivision – Lot 65 Fast Track

Date: December 11, 2006

Attached is the Fast Track information required to place Lot 65 Chesapeake Pointe on your developer work list to review the septic system layouts. Please call when you are ready to review the lot and we will meet you on the site.

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

Sheet ___ of ___
PROPERTY ID #: _____
COUNTY: _____

SOIL/SITE EVALUATION
for ON-SITE WASTEWATER SYSTEM

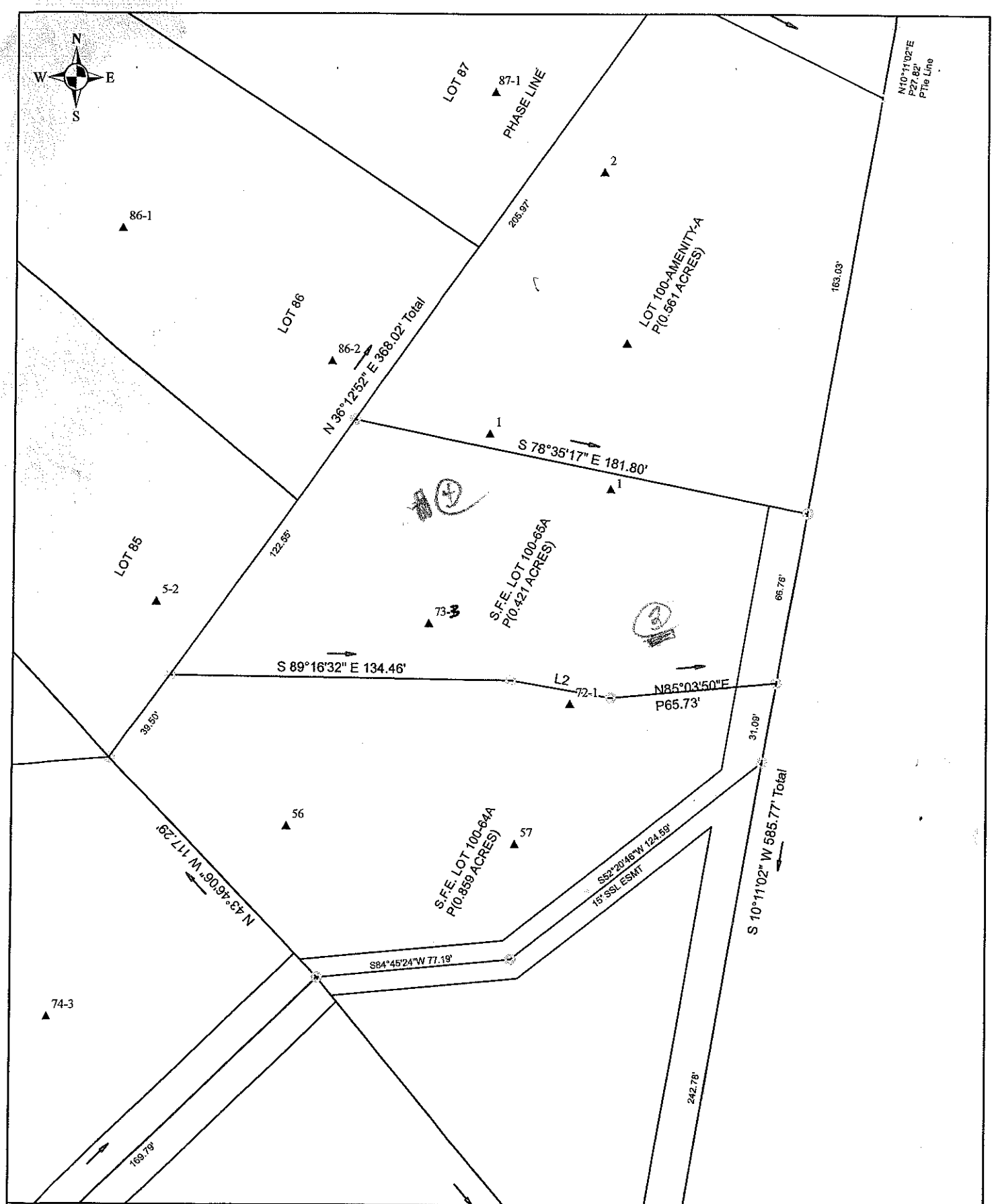
OWNER: _____ APPLICATION DATE _____
ADDRESS: _____ DATE EVALUATED: 4/26/06
PROPOSED FACILITY: _____ PROPOSED DESIGN FLOW (.1949): _____ PROPERTY SIZE: _____
LOCATION OF SITE: Lot 72 PROPERTY RECORDED: _____
WATER SUPPLY: ☐ Private ☒ Public ☐ Well ☐ Spring ☐ Other _____
EVALUATION METHOD: ☐ Auger Boring ☒ Pit ☐ Cut TYPE OF WASTEWATER: ☐ Sewage ☐ Industrial Process ☐ Mixed

PROFILE #	.1940 LANDSCAPE POSITION/ SLOPE %	HORIZON DEPTH (IN.)	SOIL MORPHOLOGY (.1941) .1941 STRUCTURE/ TEXTURE	.1941 CONSISTENCE/ MINERALOGY	OTHER PROFILE FACTORS .1942 SOIL WETNESS/ COLOR	.1943 SOIL DEPTH	.1956 SAPRO CLASS	.1944 RESTR HORIZ	PROFILE CLASS & LTAR
1	L 4-6%	0-4	wsbk scl	FR SS/SP	Br				PS .3
		4-22	msbk c	FR SS/SP	R FJ YB				
		22-38	wsbk cl	FR SS/SP	R FJC Mag				
		38-51	MA sl	FR SS/SP	R				
2	L 4-6%	0-4	mgr sl	FR SS/SP	Br				PS .3
		4-24	msbk c	FR SS/SP	R				
		24-36	msbk c	FR SS/SP	R FJ Sap Mottle				
		36-46	wsbk cl	FR SS/SP	R FJ Sap Mottle				
3	11-13-06 11% L	0-3	gr loam sl	fr ss/sp					.25
		3-31	f-msbk scl	fr ss/sp	few common yb/br mottles				
		31-48	wksbk cl-sch	fr ss/sp					
4		0-8	gr sl cl	fr ss/sp					.3
		8-19	f-msbk cl	fr ss/sp					
		19-52	wksbk cl	fr ss/sp	few ind sap				

DESCRIPTION	INITIAL SYSTEM	REPAIR SYSTEM
Available Space (.1945)		
System Type(s)		
Site LTAR		

OTHER FACTORS (.1946): _____
SITE CLASSIFICATION (.1948): _____
EVALUATED BY: M Mabe
OTHER(S) PRESENT: _____

COMMENTS: _____



Scale: 1 inch equals 50 feet	S&ME	S.F.E. Lot 100-65A Chesapeke Point	FIGURE
Drawn by: JBP		Detailed, Scaled Site Plan	1
Reviewed by: KS		Iredell County, NC	
Date: December, 2006	ENVIRONMENTAL SERVICES · ENGINEERING · TESTING	S&ME Project #1588-04-011	

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

Sheet ____ *of* ____
PROPERTY ID #: _____
COUNTY: _____

SOIL/SITE EVALUATION
for ON-SITE WASTEWATER SYSTEM

OWNER: _____ APPLICATION DATE _____
ADDRESS: _____ DATE EVALUATED: 3/25/10
PROPOSED FACILITY: _____ PROPOSED DESIGN FLOW (.1949): _____ PROPERTY SIZE: _____
LOCATION OF SITE: LOT 73 PROPERTY RECORDED: _____
WATER SUPPLY: ☒ Private ☐ Public ☐ 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	SOIL MORPHOLOGY (.1941) CONSISTENCE/ MINERALOGY	OTHER PROFILE FACTORS .1942 SOIL WETNESS/ COLOR	.1943 SOIL DEPTH	.1956 SAPRO CLASS	.1944 RESTR HORIZ	PROFILE CLASS & LTAR
1	L 6-10%	0-22	msbk sl	F SS/SP	KS				PS 0.3
		22-31	msbk c	F SS/SP	R				
		31-46	wsbk cl	FR SS/SP	R	F	3	Inch	
2	change flag in field 2 front of lot								
3									
4									

DESCRIPTION	INITIAL SYSTEM	REPAIR SYSTEM
Available Space (.1945)		
System Type(s)		
Site LTAR		

OTHER FACTORS (.1946): _____
SITE CLASSIFICATION (.1948): _____
EVALUATED BY: M Mabe
OTHER(S) PRESENT: _____

COMMENTS: _____