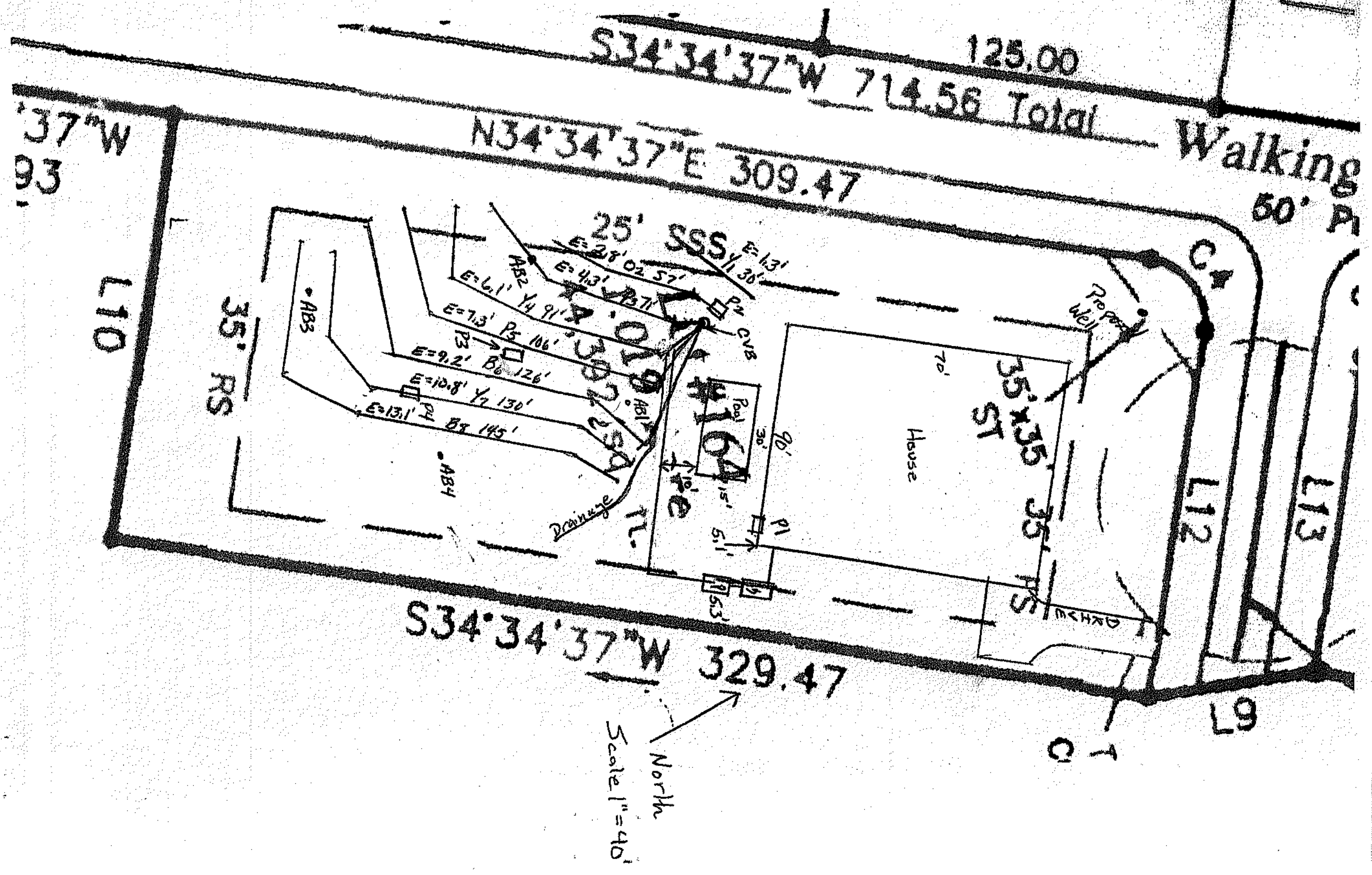

S34°34'37"W 714.56 Total
125.00
N34°34'37"E 309.47
Walking
60' P
'37"W
93
L10
35' RS
25' SSS
C4
Proposed Well
House
35'x35' ST
L12
L13
L9
Drainage
Pool
S34°34'37"W 329.47
North
Scale 1"=40'

Lot #164
1.019 Acre
44,392 sq. ft.
S34°37'W 329.47
N34°37'E 309.47
S34°37'W 713.58 Total
N34°37'E 125.00
S 25.55
35'x35'
35'
RS
TRASH
L10
L12
L13
C4
Walk
Scale 1"=40'
North
approved
7-31-M
99
33'

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

PROPERTY ID #: Lot 164; Anniston
COUNTY: Iredell

SOIL/SITE EVALUATION
for ON-SITE WASTEWATER SYSTEM

OWNER: Shea Homes
ADDRESS: 8008 Corporate Center Drive; Suite 300; Charlotte, NC 28226
PROPOSED FACILITY: 5-Bedroom Residence
PROPOSED DESIGN FLOW (.1949): 600 GPD
LOCATION OF SITE: Lot 164; Anniston Subdivision; Walking Horse Trail
APPLICATION DATE
DATE EVALUATED: 6/30/2014
PROPERTY SIZE: 1.02 Acres
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	SOIL MORPHOLOGY (.1941) .1941 CONSISTENCE/ MINERALOGY	OTHER PROFILE FACTORS .1942 SOIL WETNESS/ COLOR	.1943 SOIL DEPTH	.1956 SAPRO CLASS	.1944 RESTR HORIZ	PROFILE CLASS & LTAR
AB 1	L 3-4%	0"-5"	Br L GR	NS NP L NEXP		48"	n/a	None	.3-.4
		5"-36"	R C SBK	SS SP FR NEXP					
		36"-48"	R CL WSBK	SS SP VFR NEXP					
AB 2	L 3-4%	0"-15"	Br L GR	NS NP L NEXP		48"	Few saporlite inclusions	None	.3-.35
		15"-27"	R CL SBK	SS SP FR NEXP					
		27"-48"	R L Massive	NS NP VFR NEXP			Common saporlite inclusions		
AB 3	L 3-4%	0"-15"	R C SBK	SS SP FR NEXP		15"	P.S.	None	.4-.5
		15"-39"	Verigated L Saporlite Massive	NS NP VFR NEXP					
		39"-48"	Verigated SL Saporlite Massive	NS NP VFR NEXP					
AB 4	L 4-6%	0"-10"	RBr L GR	NS NP L NEXP		38"	P.S.	None	.3-.4
		10"-24"	R C SBK	SS SP FR NEXP					
		24"-38"	R CL WSBK	SS SP VFR NEXP					
		38"-48"	Verigated, L Saporlite, Massive	NS NP VFR NEXP					

DESCRIPTION	INITIAL SYSTEM	REPAIR SYSTEM
Available Space (.1945)	500 Linear Feet	500 Linear Feet
System Type(s)	25% Reduction	25% Reduction
Site LTAR	.3	.3

OTHER FACTORS (.1946):
SITE CLASSIFICATION (.1948):
EVALUATED BY: Michael Athanas and Associates
OTHER(S) PRESENT:

COMMENTS:

approved 7-21-14

SOIL/SITE EVALUATION

(Continuation Sheet)

DEPARTMENT OF ENVIRONMENT
AND NATURAL RESOURCES
DIVISION OF ENVIRONMENTAL HEALTH

PROPERTY ID #: Lot 164; Anniston
DATE OF EVALUATION: 6/30/2014
COUNTY: Iredell

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	.1956 SAPRO CLASS	.1944 RESTR HORIZ	PROFILE CLASS & LTAR
Pit #1	L 3-5%	0"-25"	R C SBK	SS SP FR NEXP		46"	Few to Common Saporlite inclusions	None	.3-.4
		25"-43"	R CL WSBK	SS SP FR NEXP			P.S.		
		46"-80"	Verigated SL Saporlite, Massive	NS NP VFR NEXP					
Pit #2	L 3-5%	0"-7"	Br SCL WSBK	SS SP VFR NEXP		24"	P.S.	None	.3-.4
		7"-24"	R C SBK	SS SP FR NEXP					
		24"-57"	Verigated L Saporlite, Massive	NS NP VFR NEXP					
		57"-75"	Verigated SL Saporlite, Massive	NS NP VFR NEXP					
Pit #3	L 3-5%	0"-6"	Br SCL WSBK	SS SP VFR NEXP		18"	P.S.	None	.3-.4
		6"-18"	R C SBK	SS SP FR NEXP					
		18"-67"	Verigated L Saporlite, Massive	NS NP VFR NEXP					
		67"-80"	Verigated SL Saporlite, Massive	NS NP VFR NEXP					
Pit #4	L 3-5%	0"-15"	R C SBK	SS SP FR NEXP		26"	P.S.	None	.4-.6
		15"-26"	R L GR	NS NP L NEXP Few Saporlite inclusions					
		26"-80"	Verigated SL Saporlite, Massive	NS NP VFR NEXP					

COMMENTS: _____



MICHAEL ATHANAS & ASSOCIATES
LICENSED SOIL SCIENTIST
561 Ennis Rd.
Weddington, NC 28173
(704) 576-3887

Reference: Data Sheet for Lot 164; Walking Horse Trail; Anniston, Iredell County NC
House Footprint: 90'x70'
Building Setback: 35' Front/Rear, 15' Side,
Water Source: Private Well
Number of Bedrooms: 5/600 gpd
Pre-determined LTAR: 0.3 gpd/ft2 (ICHD)
Suggested System Type: PPBPS/ 9' center
Distribution: LP-CVB
Flow per Orifice: .59
Hole Size & Material: 3/16"
Number of Panels: 77
System Flow: 45.43 gal/min
Dosing Volume: 277.2 gal/dose
Pump Run Time: 6.10 min
Total Linear Footage: 335"
Trench Bottom Square Footage: 1005 sq.ft
Elevation Head: 6'
Friction Head: 4.39'
Pressure Head: 2'
Total Dynamic Head: 12.39'
Supply Line Length: 112'
Proposed Trench Bottom Depth: 36"
Septic/ Pump tank size: 1500 ST, 1500 PT

Line	Actual Length	Design Length	# of Panels	Elevation
Yellow 1	30'			1.3'
Orange 2	57'			2.8'
Pink 3	**71'**	**70'**	**16**	**4.3'**
Yellow 4	**91'**	**90'**	**21**	**6.1'**
Pink 5	**106'**	**100'**	**23**	**7.3'**
Blue 6	**126'**	**75'**	**17**	**9.2'**
Yellow 7	130'			10.8'
Blue 8	145'			13.1'

Septic/Pump Tanks: 7' **CVB:** 4.3' **House Corner:** 5.1'
Initial System: 220' of PPBPS **Repair System:** 363' of PPBPS
Benchmark: -2.7' Corner iron along Walking Horse Trail

Comments: The purpose of the evaluation is to increase the house site and add a pool to the site. The system type has also changed from a 25% reduction to a Panel Block system. The system area is the same as previously permitted by ICHD. The proposed pool has been located using black pin flags. The draw/gully in the septic area will need to be filled prior to installation. Due to the length of each panel line being greater than 70', 1.5" pipe should be used to install the panel lines.