IR NO

S&ME

October 20, 2014

Clayton Homes #072
2026 Northside Drive
Statesville, North Carolina 28625

Attention: Ms. Deena Abee

Reference: Technical Assistance with Septic Permitting
Tract 2- Shane Hildebrand Family Subdivision
30.54 Acres
Iredell County, North Carolina
S&ME, Inc. Project No. 4358-14-101, Phase 02

Dear Ms. Abee:

S&ME, Inc (S&ME) has provided technical assistance to obtain a possible new, three bedroom septic system permit on the above referenced lot from the Iredell County Health Department (ICHD). The technical assistance was performed in general accordance with S&ME Proposal No. 43-1400740 dated August 7, 2014.

Attached is the Application for the Septic Improvement Permit, the Zoning Permit, and the ICHD Fast Track requirements presented to the ICHD on your behalf. You are requesting a three bedroom Improvement Permit for a new modular home. The Hildebrand family is purchasing the property and subdividing it into 4 tracts. Mr. Paul Penninger with S&ME has provided soil science consulting services to evaluate the soil and flag the proposed septic systems on three of the tracts. The Hildebrand family approved the proposed home and septic system locations and worked with their surveyor to subdivide the property. Several revisions were made to the lots, home locations, and septic system locations.

The Hildebrand family dug four backhoe pits in the proposed septic area and the proposed septic lines were flagged with a laser level and wire pin flags by S&ME. The surveyor located the flagged septic lines and home site and staked the property corners and property lines. The proposed primary septic system is a gravity 25 Percent Reduction System and the and the required 100 percent repair area is a T&J Panel System.

Once the septic area is permitted, it should be fenced off for protection during home construction. Access to the lot should only be by the proposed drive. There shall not be cuts of 2 feet or greater within 15 feet of any part of the permitted septic system and stormwater should be diverted from the drainfield. No fill material shall be placed over the drainfield. Install the system under dry soil conditions. Because of the saprolite observed in

the septic area, any well should be at least 100 feet from the septic tank and drainfield. We understand you will apply for the required well permit at a later date.

S&ME appreciates the opportunity to provide these services to you. The attached information is not an Improvement Permit or Authorization to Construct and is only to assist you and the ICHD with the Fast Track site evaluation. The ICHD may show any changes or modifications they want to the proposed system on the report or attached site plan. The ICHD must approve each lot and only the ICHD can issue these permits. The ICHD should verify all soils and system specifications, required setbacks, and whether a professional engineer plan is required before permitting and/or septic system installation. Soil evaluations and system layouts are done based on interpretations of the rules governing wastewater treatment and disposal systems and are not guarantees for site approval or future septic system performance.

If you have any questions or require additional information please contact us at your convenience.

Sincerely,

S&ME, Inc.

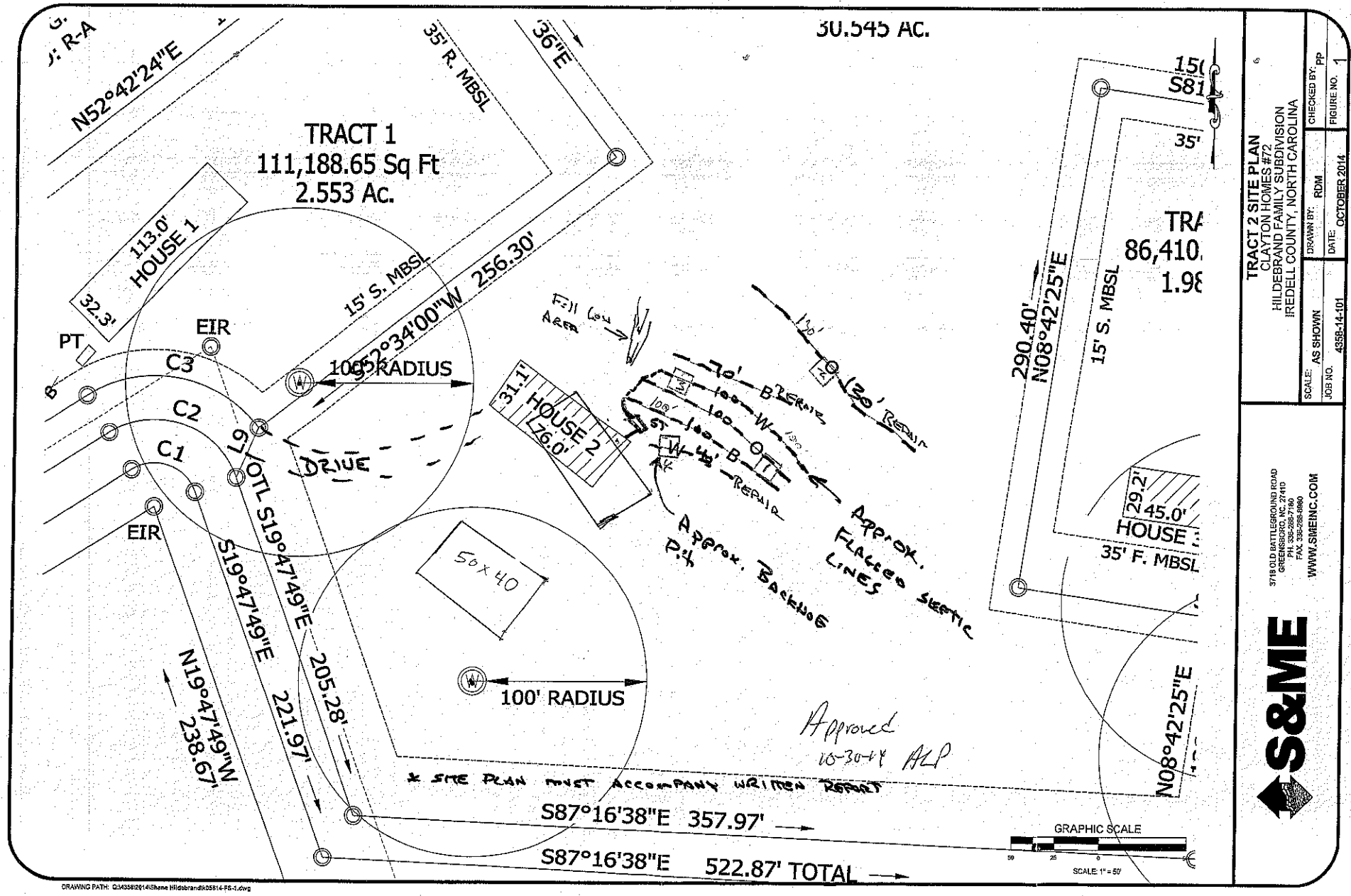
Paul G. Penninger, L.S.S.
Soil Scientist

Rob Willcox, L.S.S.
Senior Project Manager / Soil Scientist

Attachments:

1. ICHD Improvement Permit Application and Zoning Permit
2. Proposed Site Plan, System Information, Floor Plan, and Soil Profile Descriptions

T:\Projects\2014\ENV\4358-14-101 Clayton Homes #072\Phase 02 - Sugar Creek Road\Hildebrand Tract 2 FT Summary Letter.doc


30.545 AC.
TRACT 1
111,188.65 Sq Ft
2.553 Ac.
N52°42'24"E
35' R. MBSL
36"E
113.0'
HOUSE 1
32.3'
15' S. MBSL
S02°34'00"W 256.30'
PT
EIR
C3
C2
C1
L7
100' RADIUS
DRIVE
EIR
S19°47'49"E 221.97'
OTL S19°47'49"E 205.28'
N19°47'49"W 238.67'
Fill Lot Area
31.1'
HOUSE 2
76.0'
10' BERM
100' W
100' OTL
W 4½' REPAIR
Approx. Flagged Septic Lines
Approx. Backup P.A.
50x40
100' RADIUS
* SITE PLAN MUST ACCOMPANY WRITTEN REPORT
Approved
10-30-14 ALP
S87°16'38"E 357.97'
S87°16'38"E 522.87' TOTAL
GRAPHIC SCALE
SCALE: 1" = 50'
290.40'
N08°42'25"E
15' S. MBSL
35' F. MBSL
29.2'
45.0'
HOUSE
N08°42'25"E
TRACT 2 SITE PLAN
CLAYTON HOMES #72
HILDEBRAND FAMILY SUBDIVISION
IREDELL COUNTY, NORTH CAROLINA
SCALE: AS SHOWN
DRAWN BY: RDM
CHECKED BY: PP
JOB NO. 4358-14-101
DATE: OCTOBER 2014
FIGURE NO. 1
S&ME
3718 OLD BATTLEGROUND ROAD
GREENSBORO, NC. 27410
PH. 336-288-7160
FAX. 336-288-8860
WWW.SMEINC.COM
DRAWING PATH: Q:\4358\2014\Shane Hildebrandt\04814-FS-1.dwg

Clayton Homes #072 - Hildebrand Tract 2 Fast Track Summary

S&ME Project No. 4358-14-101 Phase 02 (October 2, 2014)

Number of Bedrooms	3
Basement or Crawl	Crawl
Design Flow (gpd)	360
LTAR (gpd/sqft)	0.3
Primary System Type	**Gravity 25 Percent Reduction**
No. Lines	3 @ 100 (See Site Plan)
Total Linear Feet	300
Trench Width	3' min.
Trench Spacing	9' min.
Pump Required	No
Distribution Device	D-Box, Drop Box or other ICHD approved distribution device
Maintenance Agreement Required	No
Repair System	**LPP T&J Panel**
Total Linear Feet	240+ shown (200 ft. required)
Repair LTAR (gpd/sqft)	0.3

Note: **Installer and ICHD shall verify all line locations, tank locations, and elevations prior to installation.**
System is to be installed according to any other ICHD requirements or policies.
These specifications are to satisfy the ICHD Fast Track LSS checklist and are not intended to represent an Engineered System Design.
Use trench depth on ICHD IP.

DEPARTMENT OF HEALTH AND HUMAN SERVICES
DIVISION OF PUBLIC HEALTH, ENVIRONMENTAL HEALTH SECTION
ON-SITE WATER PROTECTION BRANCH

Sheet 1 of 1
PROPERTY ID #:
COUNTY:

SOIL/SITE EVALUATION
***for* ON-SITE WASTEWATER SYSTEM**
(Complete all fields in full)

OWNER: Shane Wildebrand — APPLICATION DATE: 08/14
ADDRESS: Tract 2 — DATE EVALUATED:
PROPOSED FACILITY: 3 bdrm — PROPOSED DESIGN FLOW (.1949): 360 — PROPERTY SIZE: 30.5 AC
LOCATION OF SITE: — PROPERTY RECORDED: 2014
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	LS 10-20% Pit only 39" deep @ eval, AZP	0-7	WSBK/SCL	fr SS/SP	br				PS .3
		7-25	mSBK/C	fi SP	rd				
		25-46	WSBK/CL	fr SS/SP	gy/rd – C SAP	in			
		46-48	massl-SL	fr SS/SP	rc				
		48 to 60"	in HAND AUGER						
2	2-5%	0-5	WSBK/SL	fr SS/SP	br				PS .3
		5-23	mSBK/C	fr SS/SP	rd				
		23-42	WSBK/CL	fr SS/SP	f–c SAP/ mi-o			feldspar	
		42-48	mass/WSBK/L – fr	SS/SP					
		HAND to 60"	mostly SAP w/		f CL				
3	C 4-8% AZP	0-4	WSBK/SCL	fr SS/SP	br				PS .4
		4-15	mSBK/C	fr SS/SP	rd f SAP				
		15-38	WSBK/CL-SCL	fr SS/SP	c SAP/ fr	sap			
		38-60	mass/SL	C SS/SP	rc				
4	C 31	0-2	WSBK/SCL	fr SS/SP					PS .3
	31-42	2-30	mSBK/CL/SCL	fr SS/SP	rd f	SAP/ fr			
	42-48	30-42	WSBK/CL	fr SS/SP	gy/rd	/C SAP			
		42-48	S-p SL	M fr SS/SP	SAP				

DESCRIPTION	INITIAL SYSTEM	REPAIR SYSTEM
Available Space (.1945)	PS	PS
System Type(s)	.3	.3
Site LTAR	.286	.3

OTHER FACTORS (.1946):
SITE CLASSIFICATION (.1948): PS
EVALUATED BY: PGP
OTHER(S) PRESENT: owner (as approved by ICHD)

COMMENTS:

Updated February 2014

Approved 10-30-14 AZP