HS

328014 inspections

IREDELL COUNTY HEALTH DEPARTMENT

Statesville Office (704) 878-5305 | Mooresville Office (704) 660-3625 | PERMIT # ~~24004~~

SEPTIC IMPROVEMENT PERMIT / AUTHORIZATION TO CONSTRUCT / OPERATION PERMIT / EXISTING SYSTEM

PIN # 4654761539.000

APPLICANT/OWNER: Ray Development | APPLICANT ADDRESS: 463 Mariner Ln. Denver, NC

SITE ADDRESS: 114 Castleview Ln. Mooresville, NC | PHONE: 980-297-2787 | ALT. PHONE —

SITE DIRECTIONS: Shearers Rd (s) → R on Presbyterian → L on Sink Farm → R on Manorly → L on Castleview | SAP CONTROLLED: ☐ YES ☑ NO

SUBDIVISION: Davidson Downs | SECTION: — | LOT # 164 | LOT AREA: .58ac | DESIGN FLOW: 480gpd | L.T.A.R.: .275 (.275 repair)

Septic Tank	1000	(gal)	STB	7100	Date	9/14/22	☑ New System	☐ Repair	☐ Expansion	System Type: I II III IV V VI	☑ Residence	No. Bedrooms	4	Water Supply
Pump Tank	1000	(gal)	PT	363	Date	9/7/22	System Description: PM 25% reduction (offsite)				☐ Business	No. Persons	8	☑ Private
Pump Make			Model		Serial #		Repair System Description: LP PPBPS (offsite)				☐ Other	No. Employees		☐ Public
# Nitrification Fields	1		# Lines	5	Linear Ft	440'	Maintenance Agreement Required:	☐ YES	☑ NO		☐ Slab	☑ Crawl Space		☐ Community
Trench Width	36"		Trench Bottom Depth(Low side)	33"/36" highside	Gravel Depth	—		☐ GRAVITY	☑ PRESSURE		☐ Basement w/plumbing			☐ Basement w/o plumbing

Comments / Conditions: Lot and all easements must be recorded prior to issuing AC.

Line 1+5 : 1½ sch 80
Line 2-4 : 1½ sch 40 > tap size

INITIAL SITE SKETCH

See attached site plan by Michael Athanas + Associates

AS BUILT SKETCH

approved manny manifold to closer side - next to 162/163A 10/27/22 DW

As Built

Attached

	Date	Initials
Drain Lines Checked	10/27/22	DW
Tanks Checked	10/27/22	DW
Pressure Manifold or Valve Box Checked	10/27/22	DW
Pressure Head Set	3/2/23	SH
Electrical Checked	3/7/23	SB
Floats Set	10/27/22	DW
Alarm Checked	3/7/23	SB
Maintenance Contract Y / N		

Permit can be suspended or revo... changes are made in the installation of the system. CONTACT A LOCATOR SERVICE PRIOR TO ANY EXCAVATION

☐ IMPROVEMENT PERMIT with plan valid for 60 mos. expiration. ☑ IMPROVEMENT PERMIT with site plan valid for 60 mos. ☑ AUTHORIZATION TO CONSTRUCT valid for period equal to IMPROVEMENT PERMIT--not to exceed 60 mo.

Owner / Applicant Signature: | Date: | Installed by: Rowan Septic - Kevin Kirkpatrick

IMPROVEMENT PERMIT by: Kayla Wilson | Date: 1-15-19 | OPERATION PERMIT by: Sarah Bradley | Date: 3/7/2023

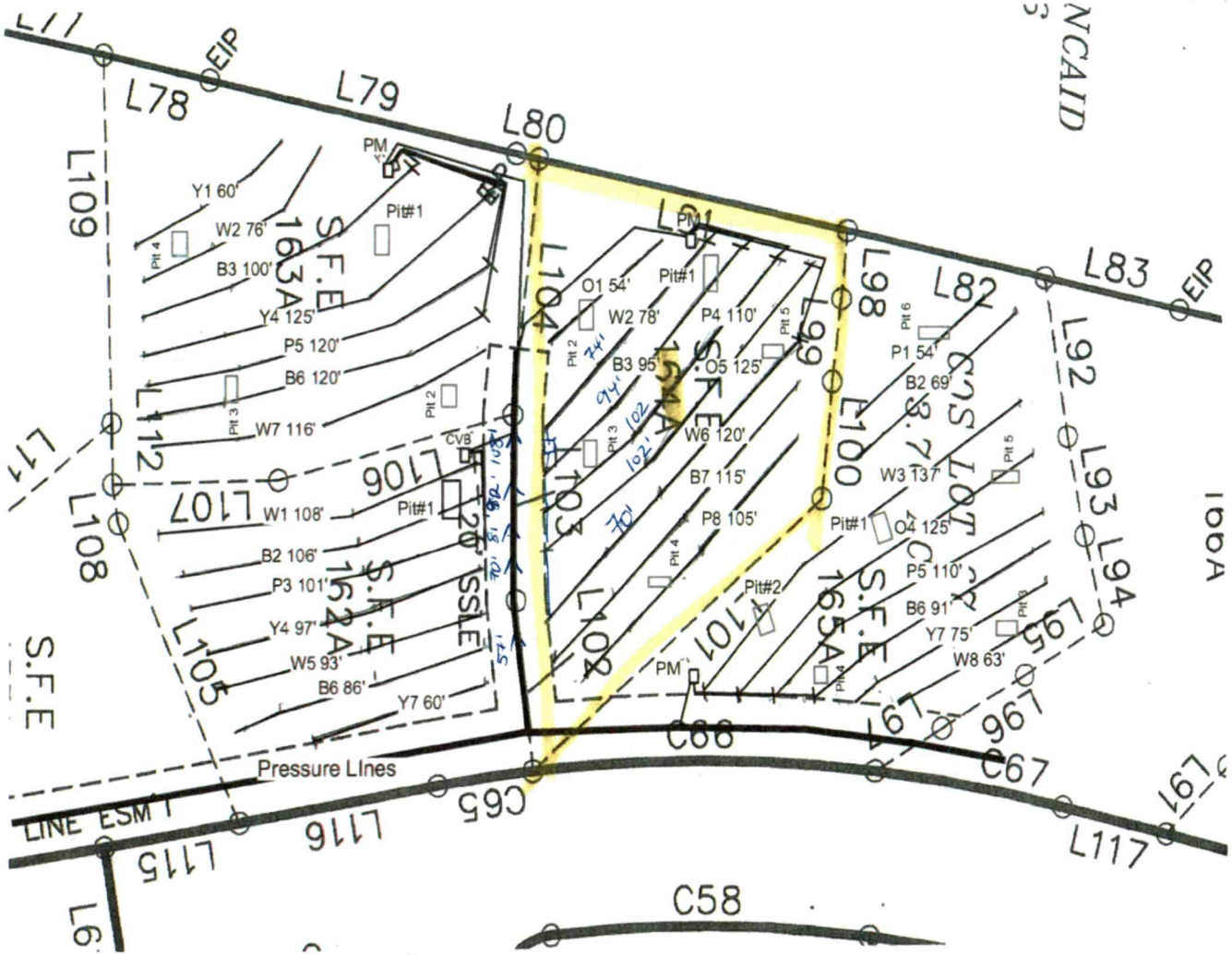
AUTHORIZATION TO CONSTRUCT by: [signature] | Date: 5/3/22 | Existing System Inspected by: | Date:

FOR SEPTIC FINAL INSPECTION: CALL 704-664-3703 between 8am-9am the day t... ection is needed. Be sure to speak with an inpsector to confirm your inspection time.

As Built

114 Castlemew

(offsite)

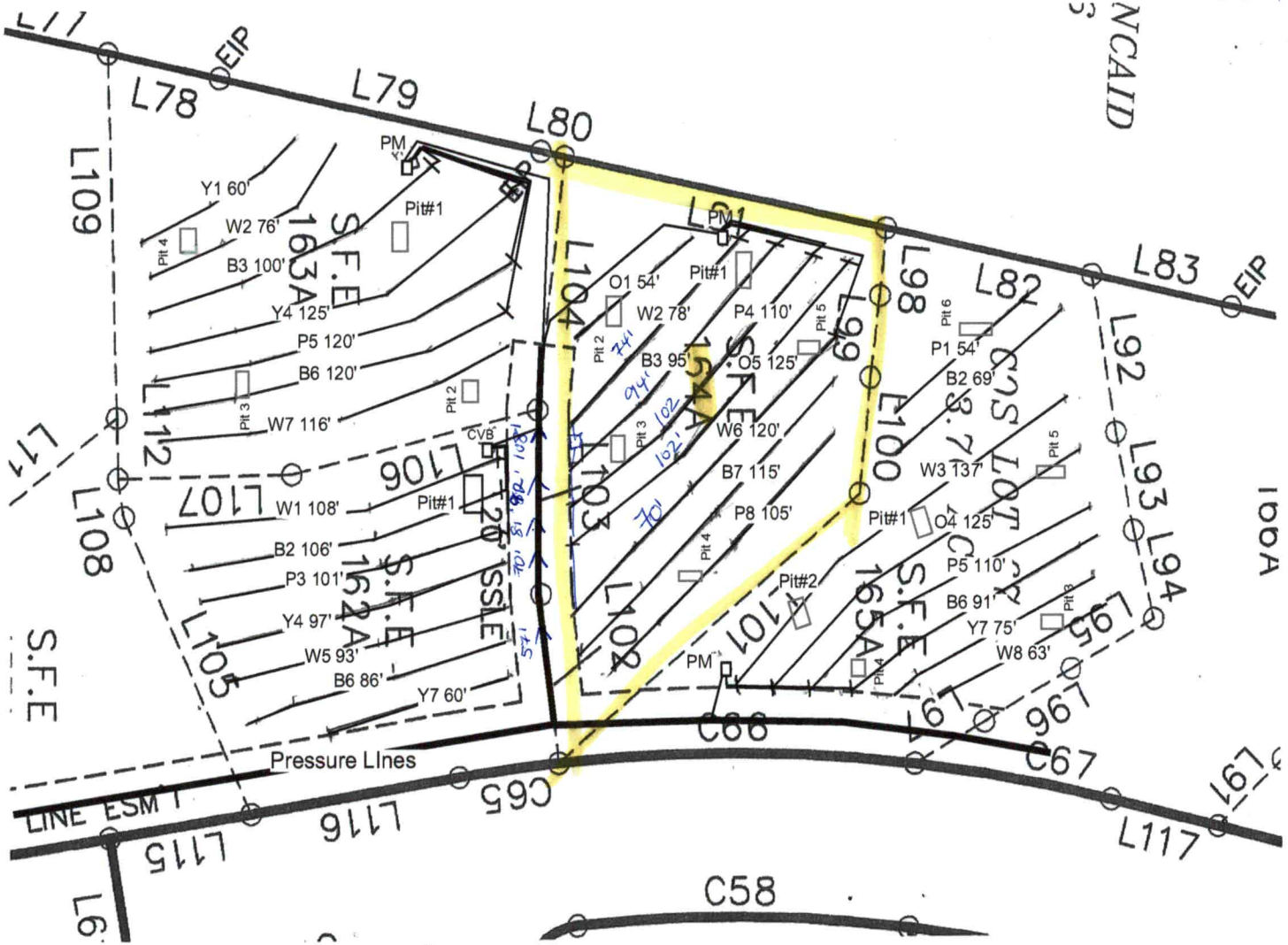


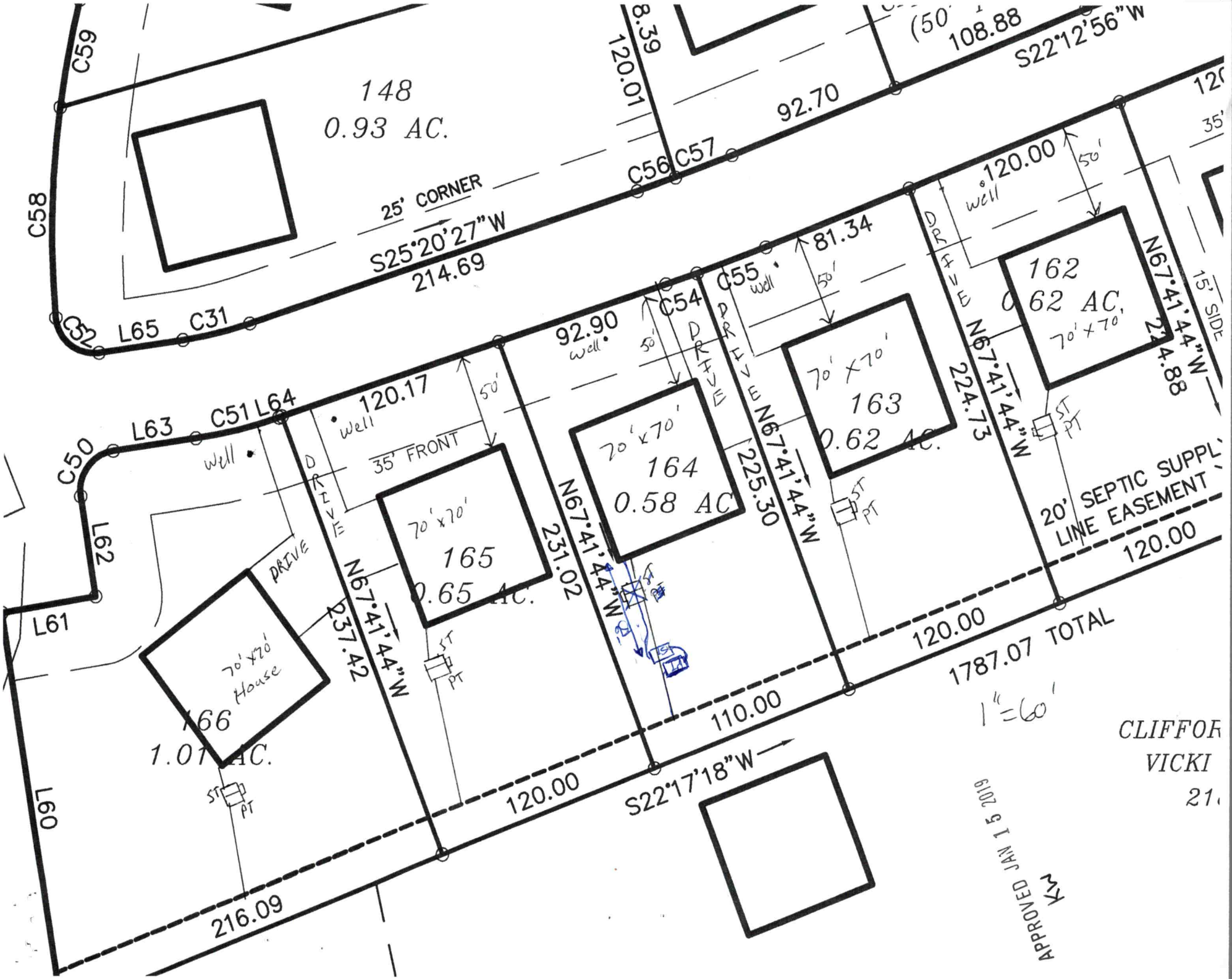
Pressure Lines
L115
L116
L117
L108
L109
L107
L106
L105
L104
L103
L102
L101
L100
L99
L98
L97
L96
L95
L94
L93
L92
L83
L82
L81
L80
L79
L78
C65
C58
C97
C98
S.F.E
EIP
PM
CVB
Pit#1
Pit#2
Y1 60'
W2 76'
B3 100'
Y4 125'
P5 120'
B6 120'
W7 116'
W1 108'
B2 106'
P3 101'
Y4 97'
W5 93'
B6 86'
Y7 60'
O1 54'
W2 78'
B3 95'
P4 110'
O5 125'
W6 120'
B7 115'
P8 105'
O4 125'
W3 137'
P5 110'
B6 91'
Y7 75'
W8 63'
P1 54'
B2 69'
Scale 1"=50'
NCAID
APPROVED JAN 15 2019

As Built

114 Castlerew

(offsite)




148
0.93 AC.
25' CORNER
S25°20'27"W
214.69
92.70
S22°12'56"W
108.88
120.01
8.39
C59
C58
C56
C57
C55
C54
C52
L65
C31
C51
L64
C50
L63
L62
L61
L60
92.90
well
120.17
well
81.34
well
120.00
well
50'
35' FRONT
DRIVE
70'x70'
164
0.58 AC
70'x70'
165
0.65 AC.
70'x70'
163
0.62 AC.
162
62 AC.
70'x70'
70'x70'
House
166
1.01 AC.
PRIVE
N67°41'44"W
231.02
225.30
224.73
224.88
N67°41'44"W
ST
PT
20' SEPTIC SUPPLY
LINE EASEMENT
120.00
1787.07 TOTAL
110.00
120.00
S22°17'18"W
120.00
216.09
237.42
1"=60'
15' SIDE
CLIFFOR
VICKI
21
APPROVED JAN 15 2019
KM

APPROVED JAN 15 2019
KW

PROPERTY ID #: _____
COUNTY: _Iredell_

SOIL/SITE EVALUATION
for ON-SITE WASTEWATER SYSTEM

OWNER: Ray Development _____ APPLICATION DATE_____
ADDRESS: Denver, NC _____ DATE EVALUATED: _____
PROPOSED FACILITY: _4 bdrm_____ PROPOSED DESIGN FLOW (.1949): _480 GPD___ PROPERTY SIZE: ____0.67 AC_____
LOCATION OF SITE: Davidson Downs Lot 164 _____ PROPERTY RECORDED: _____
WATER SUPPLY: Ξ Private ☐ Public Ξ Well ☐ Spring ☐ Other _____
EVALUATION METHOD: Auger Boring Ξ Pit ☐ Cut TYPE OF WASTEWATER: Ξ Sewage ☐ Industrial Process ☐ Mixed

PROFILE #	.1940 LANDSCAPE POSITION/ SLOPE %	HORIZON DEPTH (IN.)	SOIL MORPHOLOGY (.1941)		OTHER PROFILE FACTORS				PROFILE CLASS & LTAR
			.1941 STRUCTURE/ TEXTURE	.1941 CONSISTENCE/ MINERALOGY	.1942 SOIL WETNESS/ COLOR	.1943 SOIL DEPTH	.1956 SAPRO CLASS	.1944 RESTR HORIZ	
PIT 1	LS 6%	0-21	R C SBK	FR SS SP SXP	N/A	50"	F-CSAP	N/A	PS 0.3
		21-50	R CL WSBK	FR SS SP SXP					
PIT 2	LS 6%	0-26	R C SBK	FR SS SP SXP	N/A	53"	N/A	N/A	PS 0.3
		26-53	R CL WSBK	FR SS SP SXP					
PIT 3	LS 6%	0-20	R C SBK	FR SS SP SXP	N/A	53"	N/A	N/A	PS 0.3
		20-53	R CL WSBK	FR SS SP SXP					
PIT 4	LS 6%	0-15	RBr CL WSBK	FR SS SP SXP	N/A	52"	N/A	N/A	PS 0.3
		15-38	R C SBK	FR SS SP SXP					
		38-52	R CL WSBK	FR SS SP SXP					

DESCRIPTION	INITIAL SYSTEM	REPAIR SYSTEM
Available Space (.1945)	1320 FT^2	1017 FT^2
System Type(s)	25% Reduction	PPBPS
Site LTAR	0.275	0.275

OTHER FACTORS (.1946): _____
SITE CLASSIFICATION (.1948): _____PS_____
EVALUATED BY: _____MA&A_____
OTHER(S) PRESENT: _____

COMMENTS: _____

SOIL/SITE EVALUATION

(Continuation Sheet)

APPROVED JAN 1 5 2019
KW

PROPERTY ID #: _DD 164______
DATE OF EVALUATION: ______________
COUNTY: _IREDELL_____

PROFILE #	.1940 LANDSCAPE POSITION/ SLOPE %	HORIZON DEPTH (IN.)	SOIL MORPHOLOGY (.1941)		OTHER PROFILE FACTORS				PROFILE CLASS & LTAR
			.1941 STRUCTURE/ TEXTURE	.1941 CONSISTENCE/ MINERALOGY	.1942 SOIL WETNESS/ COLOR	.1943 SOIL DEPTH	.1956 SAPRO CLASS	.1944 RESTR HORIZ	
PIT 5	LS 6%	0-28	R C SBK	FR SS SP SXP	N/A	56"	N/A	N/A	PS 0.3
		28-56	R CL WSBK	FR SS SP SXP					

COMMENTS:____



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

Reference: Data Sheet for Lot 164 Davidson Downes Phase IV; Castleview Lane; Iredell County, NC

House Footprint: 70'x70'
Building Setback: 35' Front, 10' Side,
Water Source: Private Well
Number of Bedrooms: 4/480 GPD
Proposed LTAR: 0.275 gpd/ft2
Suggested System Type: 25% Reduction (Off-site Easement)
Proposed Repair LTAR: 0.275 GPD/ft2
Repair System Type: PPBPS (Off-site Easement)
Distribution: Pressure Manifold
Flow per Tap: 7.11 GPM ½" SCH 40; 5.48 GPM ½" SCH 80
Tap Size and Material: ½" SCH 40; ½" SCH 80
System Flow: 32.29 GPM
Dosing Volume: 192.50 Gallons
Pump Run Time: 5.96 minutes
Elevation Head: TBD
Friction Head: TBD
Pressure Head: 2'
Total Dynamic Head: TBD
Supply Line Length: TBD
Septic/Pump Tank Size: 1000/1000
Proposed Trench Bottom: 36"

Line	Design Length	Repair Length	Actual Length	Elevation
Orange 1		54'	54'	TBD
White 2	**75'**		**78'**	**TBD**
Blue 3	**95'**		**95'**	**TBD**
Pink 4	**100'**		**110'**	**TBD**
Orange 5	**100'**	20'	**125'**	**TBD**
White 6	**70'**	45'	**120'**	**TBD**
Blue 7		115'	115'	TBD
Pink 8		105'	105'	TBD

Initial System: 440' 25% Reduction **Repair System:** 339' PPBPS

Comments:
The purpose of this evaluation is to permit the property for a 4-bedroom residence.

- The proposed house site has been staked by the surveyor using stakes with white tape.
- Due to soil and topography MA&A is proposing to permit this site as an off-site septic easement.
- All elevations and pressure line lengths will be determined prior to installation.

GENERAL NOTES

1. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH ALL APPLICABLE BUILDING CODES AND LOCAL ORDINANCES.
2. CONTRACTOR SHALL VERIFY ALL CONDITIONS AND DIMENSIONS AT SITE AND SHALL REPORT ANY DISCREPANCIES TO THE ARCHITECT BEFORE PROCEEDING WITH THE WORK.
3. ALL DIMENSIONS ARE TO FACE OF STUD, FACE OF CONCRETE OR FACE OF MASONRY UNLESS OTHERWISE NOTED.
4. ALL EXTERIOR WALLS SHALL BE INSULATED AS REQUIRED BY LOCAL CODES.
5. ALL INTERIOR WALLS SHALL BE INSULATED AS REQUIRED BY LOCAL CODES.
6. CONTRACTOR TO PROVIDE 4" AGAINST ANY FOUNDATION WALL REINFORCE
7. ALL WORK SHALL BE CONSTRUCTED IN WORKMANLIKE MANNER, AND ALL MATERIALS SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS AND THE REQUIREMENTS OF ALL GOVERNING AUTHORITIES.
8. ALL WORK SHALL BE PERFORMED BY EXPERIENCED WORKMEN. THE STRUCTURAL DRAWINGS SHALL BE OF A QUALIFIED ENGINEER LICENSED TO PRACTICE IN THE STATE OF THE PROJECT.
9. ALL WORK SHALL BE PERFORMED TO CONFORM TO ALL APPLICABLE STATE AND LOCAL CODES.

GENERAL FRAMING NOTES

THE FOLLOWING NOTES ARE CONSIDERED GENERAL REQUIREMENTS. EACH SHEET OF THE PLANS SHALL BE REVIEWED FOR MORE SPECIFIC AND COMPLETE STRUCTURAL REQUIREMENTS

1. ALL FRAMED WALL DIMENSIONS ARE BASED ON 2 x 4 STUD UNLESS OTHERWISE INDICATED.
2. ALL EXTERIOR WALLS SHALL BE SHEATHED WITH 7/16" OSB.
3. ALL INTERIOR PARTITIONS SHALL BE SHEATHED WITH 1/2" GYPSUM BOARD.
4. FRAMING SHALL BE DOUBLED UNDER PARTITIONS WALL
5. PROVIDE 2 STUDS MINIMUM AT EACH END OF SPAN OR 8'-0"
6. PROVIDE 2 STUDS MINIMUM AT END POINT OF SPAN OR 8'-0"
7. ALL HEADERS SHALL BE SUPPORTED BY KING STUDS AND JACK STUDS AS REQUIRED BY THE SIZE AND TYPE OF HEADER SPECIFIED.
8. PROVIDE SOLID BLOCKING AT ALL FLOOR AND CEILING JOISTS.
9. ALL BEAMS, HEADERS AND GIRDERS SHALL BE SUPPORTED BY A MINIMUM OF 1 1/2" OF BEARING AT EACH END UNLESS OTHERWISE NOTED.
10. ALL FLOOR JOISTS SHALL BE SUPPORTED BY A MINIMUM OF 1 1/2" OF BEARING AT EACH END UNLESS OTHERWISE NOTED.
11. ALL WOOD FRAMING IN CONTACT WITH CONCRETE OR MASONRY SHALL BE PRESSURE TREATED OR OF NATURAL DECAY RESISTANT LUMBER.
12. ALL EXTERIOR WALLS SHALL BE INSULATED WITH R-13 BATTS OR EQUIVALENT.
13. ALL INTERIOR WALLS SHALL BE INSULATED AS REQUIRED BY LOCAL CODES.
14. ALL FLOORS SHALL BE INSULATED AS REQUIRED BY LOCAL CODES.
15. ALL ATTIC SPACES SHALL BE VENTED AS REQUIRED BY LOCAL CODES.

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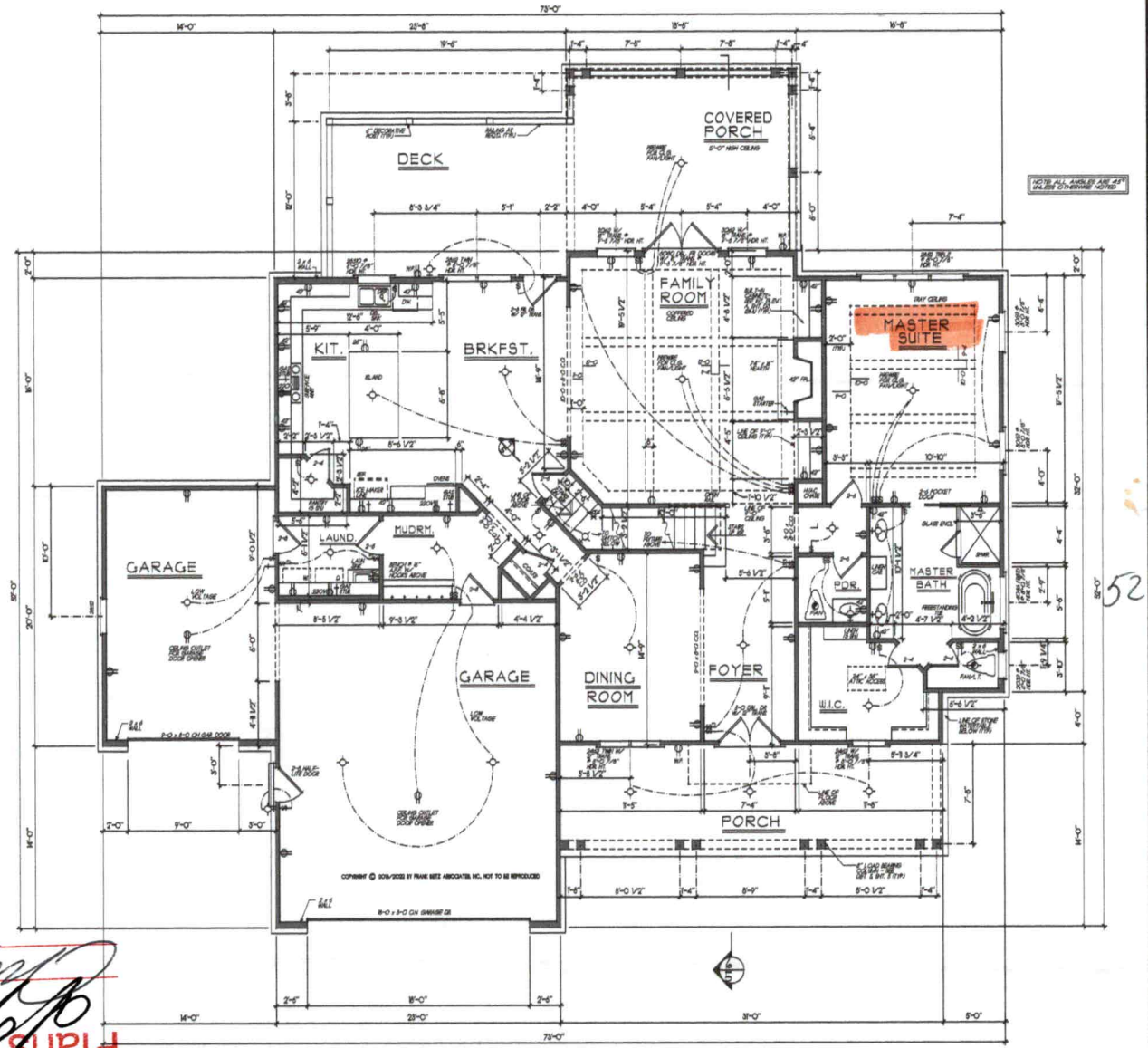
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MAIN STREET Designs ESTABLISHED 1998

NOTE: THESE DRAWINGS DO NOT REPRESENT STRUCTURAL FRAMING DRAWINGS. CONSULT WITH LOCAL ENGINEER OR LUMBER SUPPLY COMPANY FOR STRUCTURAL FRAMING DRAWINGS. WE/PBA DO NOT ASSUME ANY LIABILITY.

NOTE: LOCATE WATER HEATER & HVAC PER CODES AND SITE CONDITIONS. CONSULT W/C BUILDER & OWNER PRIOR TO CONSTRUCTION.



FIRST FLOOR PLAN

1/4" = 1'-0"

73'

SQUARE FOOTAGE	
FIRST FLOOR	1892 SQ. FT.
SECOND FLOOR	945 SQ. FT.
TOTAL	2837 SQ. FT.
OPT. BONUS	384 SQ. FT.
TOTAL	3221 SQ. FT.

Acknowledgement of Plans Submittal ONLY!

Date 4-1-22

Date 5/31/22

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REVISIONS	DATE	BY

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THE MOZELEY RESIDENCE
MOORESVILLE, NC.

FIRST FLOOR PLAN

THE ANSONBOROUGH

FRANK BEIZ ASSOCIATES, INC.
DESIGNERS OF CUSTOM AND STOCK HOMEPLANS
3550 GEORGE BUSBEE PARKWAY
SUITE 150
KENNESAW, GEORGIA 30144
770-431-0888
888-717-5003

BY: CDP CDO: RJB

DATE: 4/1/22 5/31/22

SHEET: 3

OF: 5