IREDELL COUNTY HEALTH DEPARTMENT

Statesville Office (704) 878-5305 Mooresville Office (704) 660-3625 PERMIT # 240094

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

PIN # 4654-66-9296

APPLICANT/OWNER: Kay Development LLC APPLICANT ADDRESS: 4643 Mariner Ln Denver NC 28037

SITE ADDRESS: 132 Castleview Lane Mooresville NC 28115 PHONE: 980-297 2787 ALT. PHONE -

SITE DIRECTIONS: Hwy 115 to Davidson @ on Presbyterian Rd @ on Sinkfarm Rd @ on Castleview SAP CONTROLLED: ☐ YES ☒ NO

SUBDIVISION: Davidson Downs SECTION: IV LOT # 161 LOT AREA: DESIGN FLOW: 480 L.T.A.R.: .275

Septic Tank	1000	(gal)	STB		Date						
Pump Tank	1000	(gal)	PT		Date						
Pump Make	Liberty	Model	FL102		Serial #						
# Nitrification Fields	1	# Lines	3		Linear Ft	291					
Trench Width	36	Trench Bottom Depth(L[redacted])	30		Gravel Depth	—					

☒ New System ☐ Repair ☐ Expansion System Type: I II III IV V VI

System Description: Offsite LP-PPBPS 50% Reduction

Repair System Description: offsite LP-PPBPS 50% Reduction

Maintenance Agreement Required: ☒ YES ☐ NO

☐ GRAVITY ☒ PRESSURE

☒ Residence No. Bedrooms 4 ☐ Business No. Persons 8 ☐ Other No. Employees ☐ Slab ☒ Crawl Space ☐ Basement w/plumbing ☐ Basement w/o plumbing

Water Supply: ☒ Private ☐ Public ☐ Community

Comments / Conditions: See attached Proposal from Michael Athonsas & Associates LSS

* Easement plat to be Recorded Prior to A/C *

Easement recorded BK 70 PG 86

INITIAL SITE SKETCH

See attached Proposal and site Design by Michael Athonsas and Associates LSS

AS BUILT SKETCH

* Needs maintenance before signing OP

Checked
Lines mw 2/6/24
Pressure Head 2/8/24
Electrical mw 2/8/24
Alarm mw 2/8/24
floats mw 2/8/24

Permit can be suspended or revoked if any false information is supplied toward securing the permit / any unauthorized changes are made to the site / any unauthorized changes are made in the installation of the system. **CONTACT A LOCATOR SERVICE PRIOR TO ANY EXCAVATION**

☐ **IMPROVEMENT PERMIT** *with plat valid without 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: Bowen Septic

IMPROVEMENT PERMIT by: Benjamin A. Bottoms Date: 12/6/18. OPERATION PERMIT by: Date: 2/13/24

AUTHORIZATION TO CONSTRUCT by: Date: 4/5/23 Existing System Inspected by: Date:

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



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

Reference: Data Sheet for Lot 161 Davidson Downes Phase IV; Castleview Lane; Iredell County, NC

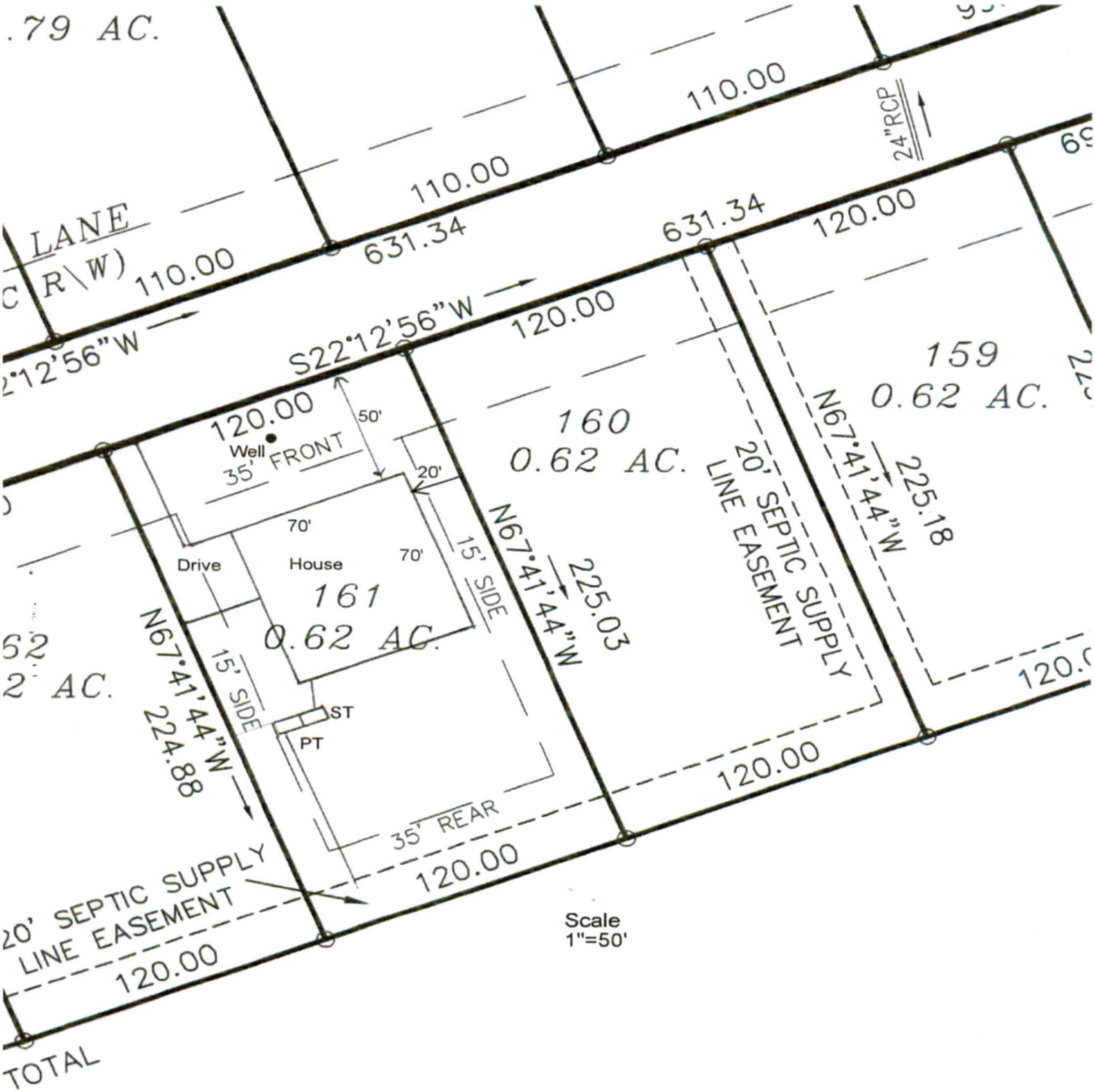
House Footprint: 70'x70'
Building Setback: 35' Front, 10' Side,
Water Source: Private Well
Number of Bedrooms: 4/480 GPD
Proposed LTAR: 0.275 gpd/ft2
Suggested System Type: PPBPS (Off-site Easement)
Proposed Repair LTAR: 0.275 GPD/ft2
Repair System Type: PPBPS (Off-site Easement)
Distribution: LP-CVB
Flow per Orifice: .59
Hole Size & Material: 3/16"
Number of Panels: 67
System Flow: 39.53 gal/min
Dosing Volume: 241.2 gal/dose
Pump Run Time: 6.1 min
Total Linear Footage: 291'
Trench Bottom Square Footage: 873 sq.ft
Elevation Head: TBD
Friction Head: TBD
Pressure Head: 2'
Total Dynamic Head: TBD
Supply Line Length: TBD
Proposed Trench Bottom Depth: 30"
Septic/ Pump tank size: 1000 ST, 1000 PT

Line	Design Length	Number of Panels	Actual Length	Elevation
Blue 1	**100'**	**23**	**105'**	**TBD**
Pink 2	**100'**	**23**	**106'**	**TBD**
Orange 3	**91'**	**21**	**96'**	**TBD**
White 4			34'	TBD
Pink 5			38'	TBD
Orange 6			45'	TBD
Blue 7			50'	TBD
Pink 8			57'	TBD
Blue 9			68'	TBD

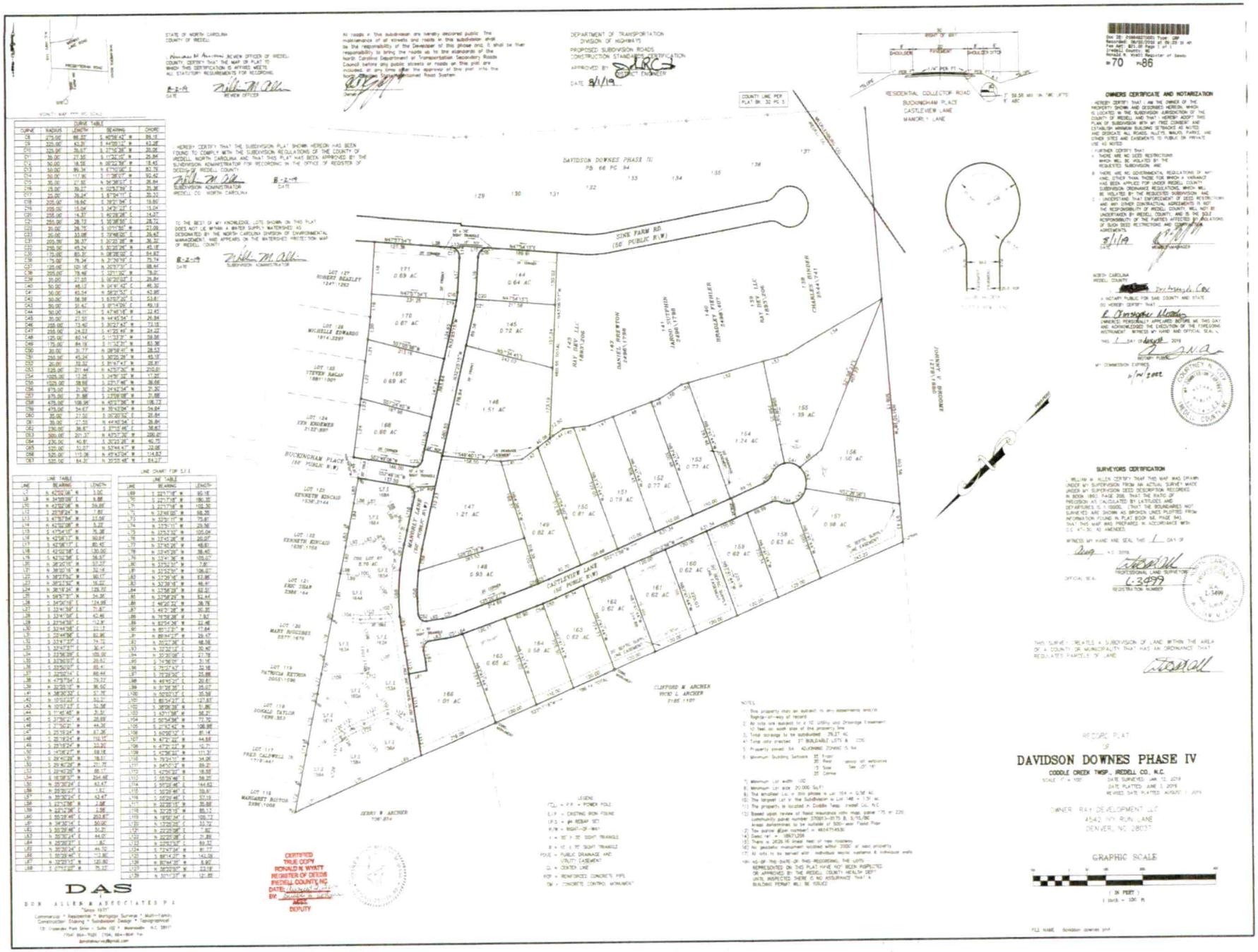
Initial System: 291' PPBPS **Repair System:** 292' PPBPS

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.


.79 AC.
LANE
R\W)
110.00
110.00
110.00
631.34
631.34
120.00
120.00
24"RCP
S22°12'56"W
2°12'56"W
120.00
50'
Well
35' FRONT
20'
160
0.62 AC.
159
0.62 AC.
70'
Drive
House
70'
161
0.62 AC.
15' SIDE
N67°41'44"W
225.03
N67°41'44"W
225.18
20' SEPTIC SUPPLY
LINE EASEMENT
15' SIDE
N67°41'44"W
224.88
ST
PT
35' REAR
120.00
120.00
20' SEPTIC SUPPLY
LINE EASEMENT
120.00
Scale
1"=50'
TOTAL

JERRY W. ARCHER
EIP
L72
L71
L70
L73
L74
L75
L76
L77
L78
L127
L126
L69
L113
L114
L124
L110
L111
L109
L108
L112
L107
L105
L115
L116
L61
CVB
O1 100'
W2 100'
O3 100'
W4 100'
B5 100'
O6 100'
B1 50'
Y2 60'
P3 67'
W4 77'
O5 86'
W6 100'
O8 107'
P7 105'
W1 100'
O2 100'
P3 100'
Y4 100'
W5 88'
B6 75'
O7 56'
P5 38'
O6 45'
B7 50'
P8 57'
B9 68'
O3 96'
P2 106'
B1 105'
W5 100'
P6 100'
B7 103'
W8 100'
P9 100'
O1 31'
W2 31'
P3 31'
O4 31'
Pit#1
Pit#2
Pit#3
Pit#4
Pit#5
20' SEPTIC SUPPLY LINE ESM'T
S.F.E
162A
163A
18
53
5\1596
119


DAVIDSON DOWNES PHASE IV
CODDLE CREEK TWSP., IREDELL CO., N.C.
OWNER: RAY DEVELOPMENT, LLC
4542 IVY RUN LANE
DENVER, NC 28037
GRAPHIC SCALE
DAS
DON ALLEN & ASSOCIATES P.A.
"Since 1977"
CERTIFIED TRUE COPY
RONALD M. WYATT
REGISTER OF DEEDS
IREDELL COUNTY, NC
DEPUTY