ICHD - ENVIRONMENTAL HEALTH DIVISION

Statesville Office (704) 878-5305 | Mooresville Office (704) 660-3625 | PERMIT # AP 326522

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

PIN # 4646 -- 18 -- 5442

APPLICANT/OWNER: Daniel & Amber Harvell | APPLICANT ADDRESS: 231 Corona Circle Mooresville, NC 28117

SITE ADDRESS: 231 Corona Circle Mooresville, NC 28117 | PHONE: 704.360-2251 | ALT. PHONE: Homes

SITE DIRECTIONS: Williamson Rd South TR Sundown TL on Sundown Cove TL Corona Circle | SAP CONTROLLED: ☐ YES ☒ NO

SUBDIVISION: Estates @ Sundown | SECTION: | LOT # 20 | LOT AREA: .89 Acre | DESIGN FLOW: 600gpd | L.T.A.R.: .3

Septic Tank	1500 (gal)	STB Infiltrator	Date	☒ New System	☐ Repair	☐ Expansion	System Type: I II III IV V VI	☒ Residence	No. Bedrooms	5	Water Supply
Pump Tank	1500 (gal)	PT Infiltrator	Date	System Description:	Vert LPPPBPS			☐ Business	No. Persons	10	☐ Private
Pump Make		Model	Serial #	Repair System Description:	LPPPBPS			☐ Other	No. Employees		☐ Public
# Nitrification Fields	1	# Lines 5	Linear Ft. 335	Maintenance Agreement Required:	☒ YES	☐ NO		☐ Slab	☐ Crawl Space		☒ Community
Trench Width	min 24"	Trench Bottom Depth(Low side)	36"	Gravel Depth	N/A	☐ GRAVITY	☒ PRESSURE	☒ Basement w/ plumbing	☐ Basement w/o plumbing		

Comments / Conditions: Divert storm/surface water away from Septic. Keep water line 10ft off Septic System

No Vehicular or Construction traffic over Septic System

INITIAL SITE SKETCH

See attached, approved Septic Plan by Michael Athanasa Assoc (dated 3/4/2022) revised 5/13/2022

AS BUILT SKETCH

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

Checked

Tanks MW 4/12/23

upper 3 lines 4/24/23 DW

bottom 2 lines 4/25/23 CW

Pressure Head 6/15/23 MW

Alarm

Electrical

Pressure Manifold

As Built into attached

* Needs Maintenance

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

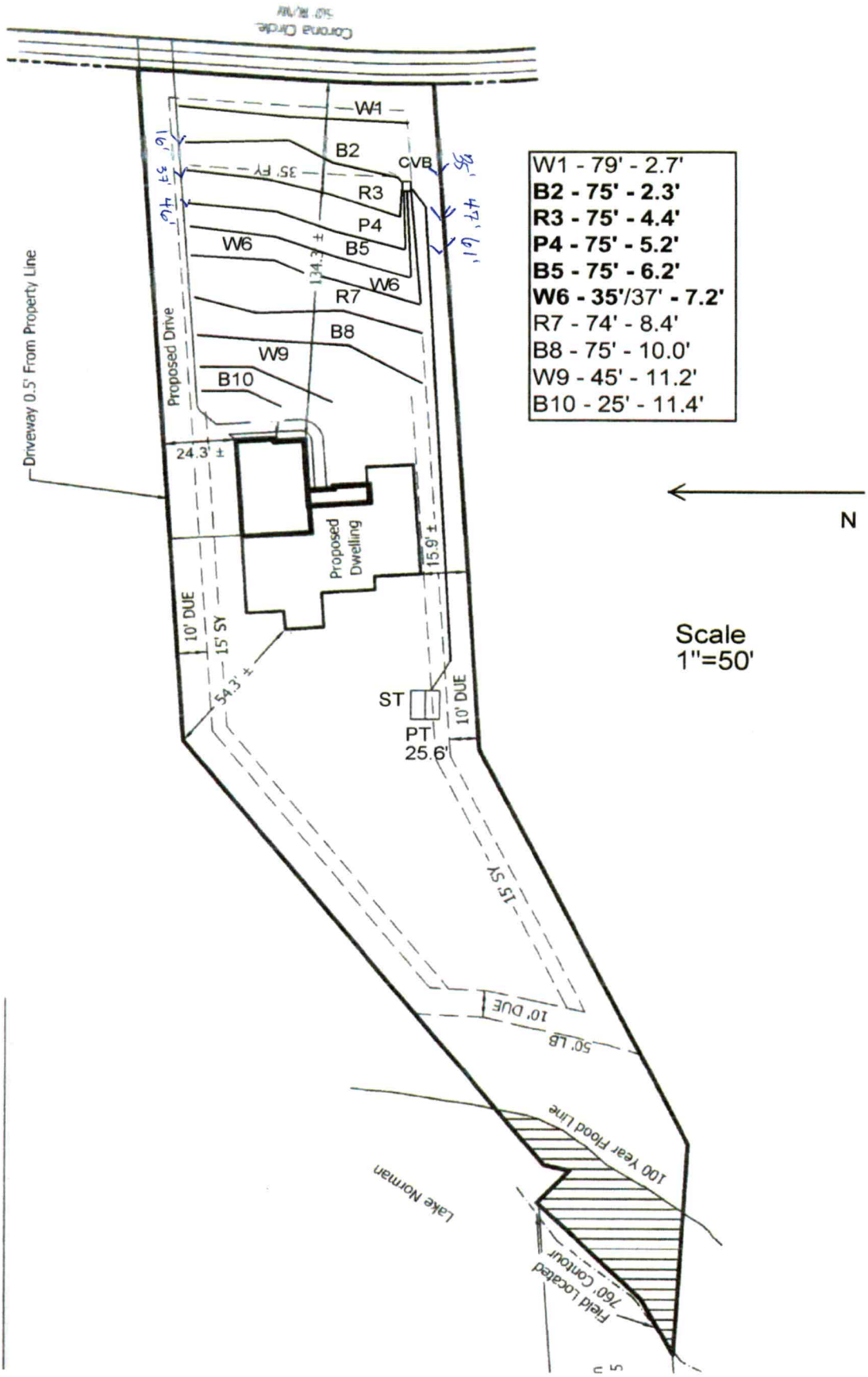
☐ IMPROVEMENT PERMIT *with plat valid without expiration.* ☒ IMPROVEMENT PERMIT *with site plan valid for 60 mos.* ☒ AUTHORIZATION TO CONSTRUCT *valid for period equal to IMPROVEMENT PERMIT--not to exceed 60 mo.*

Owner / Applicant Signature: [signature] Date: 5/24/22 Installed by: Specialty Sept'c

IMPROVEMENT PERMIT by: [signature] Date: 5/20/22 OPERATION PERMIT by: [signature] D. Meberg Date: 6/22/23

AUTHORIZATION TO CONSTRUCT by: [signature] Date: 5/20/22 Existing System Inspected by: Date:

FOR SEPTIC FINAL INSPECTION: CALL 704-664-3703 between 8am-9am the day the inspection is needed


W1
B2
CVB
R3
P4
W6
B5
W6
R7
B8
W9
B10
Proposed Drive
Driveway 0.5' From Property Line
24.3' ±
Proposed Dwelling
15.9' ±
10' DUE
15' SY
54.3' ±
ST
PT
25.6'
10' DUE
15' SY
W1 - 79' - 2.7'
B2 - 75' - 2.3'
R3 - 75' - 4.4'
P4 - 75' - 5.2'
B5 - 75' - 6.2'
W6 - 35'/37' - 7.2'
R7 - 74' - 8.4'
B8 - 75' - 10.0'
W9 - 45' - 11.2'
B10 - 25' - 11.4'
N
Scale
1"=50'

MA&A
SOIL & ENVIRONMENTAL CONSULTANTS

MICHAEL ATHANAS & ASSOCIATES
LICENSED SOIL SCIENTIST
556 Walden Trail
Weddington, NC 28173
(704) 576-3887
3/4/2022

Reference: Data Sheet for 231 Corona Cir, Estates at Sundown Cove Lot 20
House Footprint: See attached plan
Building Setbacks: 35' front/rear, 15' side, 50' lake
Water Source: Public Water
Number of Bedrooms/Daily Flow: 5/600 GPD
Proposed LTAR: 0.3 GPD/FT^2
Proposed System Type: PPBPS
Proposed Repair System Type: PPBPS
Distribution: Low Pressure-Central Valve Box
Flow per Orifice: 0.41 GPM
Orifice Size: 5/32"
System Flow: 31.16 GPM
Dosing Volume: 273.6 gallons
Pump Run Time: 8.8 minutes
Elevation Head: 28.3'
Friction Head: 4.8'
Pressure Head: 2'
Total Dynamic Head: 35.1'
Supply Line Length: 195' of 2" PVC
Septic/Pump Tank Size: 1500/1500 gallons
Proposed Trench Bottom: 36"



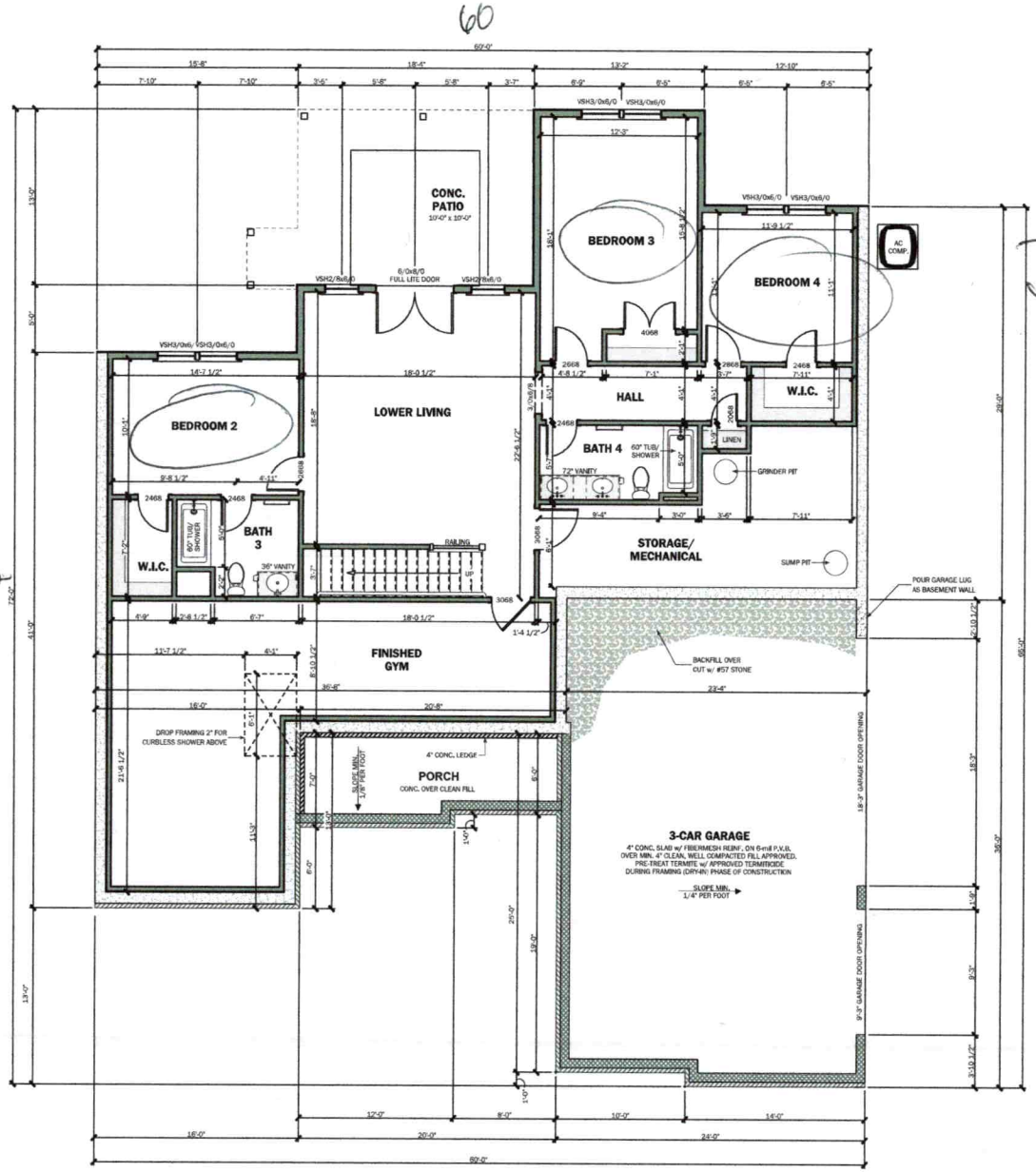
Line	Design Length	# of Panels	Actual Length	Elevation
White 1			79'	2.7'
Blue 2	**75'**	**17**	**80'**	**2.3'**
Red 3	**75'**	**17**	**80'**	**4.4'**
Pink 4	**75'**	**17**	**80'**	**5.2'**
Blue 5	**75'**	**17**	**82'**	**6.2'**
White 6	**35'**/37' (rep)	**8**	**78'**	**7.2'**
Red 7			74'	8.4'
Blue 8			75'	10.0'
White 9			45'	11.2'
Blue 10			25'	11.4'

Initial System: 335'
Repair System: 335'
Pump Tank: 25.6'
House Corner: 13.7'
Benchmark: 0.2'

Comments:
The septic area must be fenced off during construction to prevent damage to the approved area.

Please note this design is only intended for the use of two people per bedroom for a total design flow of 600 GPD and a total occupancy of 12 people. It is intended for residential use only, no commercial use. Please note once a septic system reaches 80% of the designed flow you are reaching the maximum ability of the septic system. Additional occupancy could lead to premature failure of the septic system.

5/16/2022
The house is moving forward 15'. The septic system will not change.



FOUNDATION PLAN

SCALE: 1/4" = 1'-0"
WALL HEIGHT: 10'-0"
WINDOW HEADERS @ 8'-0" A.F.F.

Acknowledgement Of Plans Submittal ONLY!

Maria Dobson Date 3/25/22

Kristy Owens Date 3/15/22

438 WILLIAMSON ROAD
SUITE C
MOORESVILLE, NC 28117
704-360-2251
FOUNDATIONHOMESUN.COM

Township/County: TOWNSHIP COUNTY

Engineer: INTELLIGENT DESIGN ENGINEERING, 1945 J N PEASE PLACE #204, CHARLOTTE, NC 28262, CHAD RITTER, P.E., CORPORATE LIC. #C-3116, 704-335-7300

Stamp/Seal:

Project Name/Owner: CUSTOM HOME, MARVELL RESIDENCE

© 2022 copyright notice Foundation Homes Residential. All rights reserved. These plans are the property of Foundation Homes Residential. Any use, reproduction, licensing, or distribution of these drawings is strictly prohibited. This document contains confidential and proprietary information that cannot be reproduced or divulged, in whole or in part, without written authorization from Foundation Homes Residential

Date: 3/16/2022

Drawn By: RES

Reviewed By: —

Plan Set Scale: 24x36 sheet 1/4" = 1'-0", 11x17 sheet 1/8" = 1'-0"

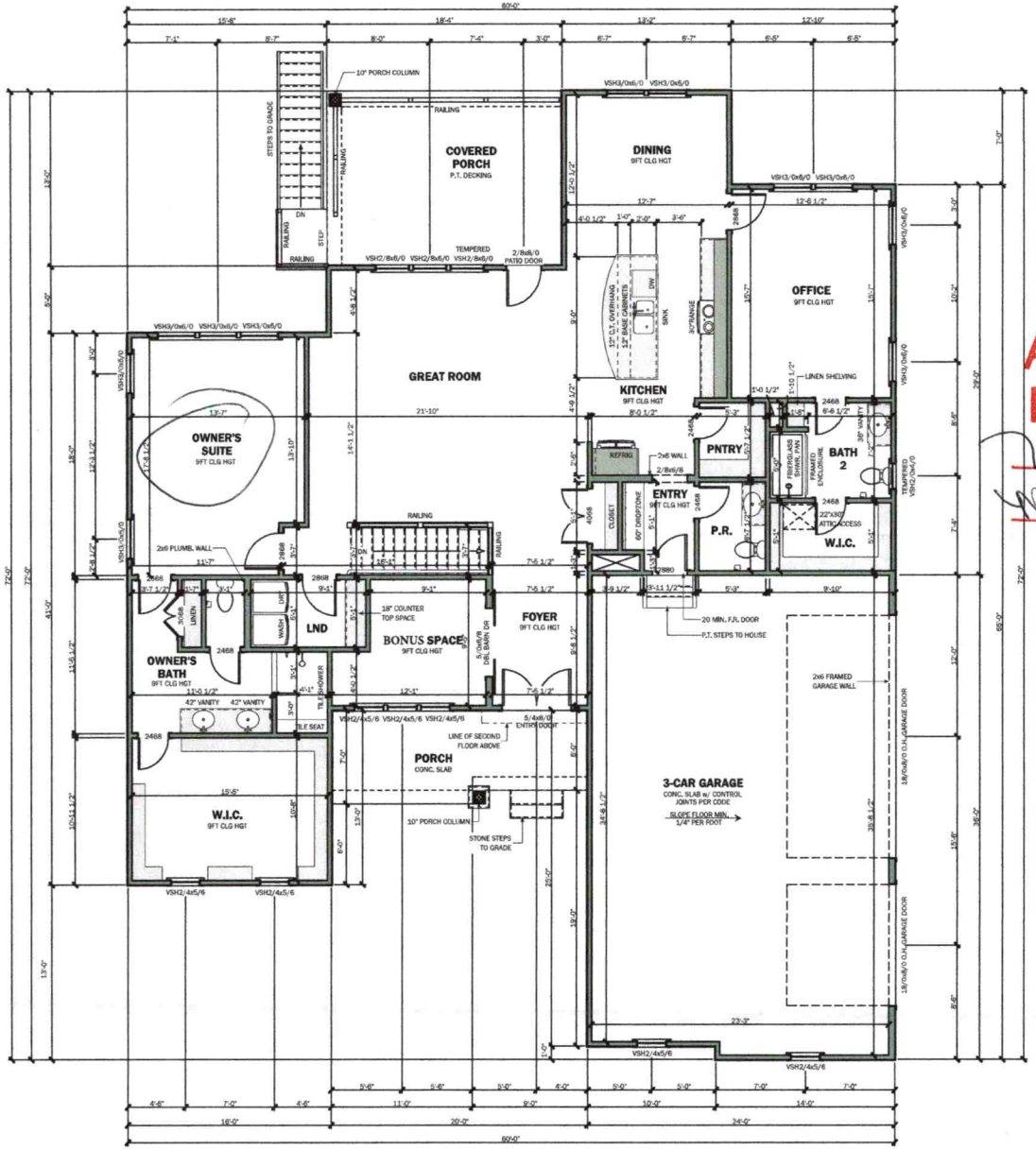
Project Plan Code: —

Drawing Set: FOR CONSTRUCTION

Sheet Title Description: LOWER LEVEL PLAN

Sheet Number: **A3.0**

Master Plan Version: v1.0



72

60

FIRST FLOOR PLAN

SCALE: 1/4" = 1'-0"
WALL HEIGHT: 9'-1 1/8"
WINDOW HEADERS @ 8'-0" A.F.F.

Acknowledgement Of Plans Submittal ONLY!

Maria Olsen Date 3/25/22

Date 3/25/22

438 WILLIAMSON ROAD
SUITE C
MOORESVILLE, NC 28117
704-360-2251
FOUNDATIONHOMESUSA.COM

Township/County: TOWNSHIP COUNTY

Engineer: INTELLIGENT DESIGN ENGINEERING
1945 J N PEASE PLACE
#204
CHARLOTTE, NC 28262
CHAD RITTER, P.E.
CORPORATE LIC. #C-3116
704-335-7200

Stamp/Seal

Project Name/Owner: CUSTOM HOME
HARVELL RESIDENCE

© 2022 copyright notice Foundation Homes Residential. All rights reserved. These plans are the property of Foundation Homes Residential. Any use, reproduction, licensing, or distribution of these drawings is strictly prohibited. This document contains confidential and proprietary information that cannot be reproduced or divulged, in whole or in part, without written authorization from Foundation Homes Residential

Date: 3/16/2022
Drawn By: RES
Reviewed By: —
Plan Set Scale: 24x36 sheet 1/4" = 1'-0"; 11x17 sheet 1/8" = 1'-0"
Project Plan Code: —
Drawing Set: FOR CONSTRUCTION
Sheet Title Description: MAIN LEVEL PLAN

Sheet Number: **A4.0**

Master Plan Version: v1.3