Supervisor/Administrative Professional Checklist

New Septic ☑ **New Well** ☐ **Use Existing** ☐ **Alteration** ☐ **Modified Plot Plan** ☐

New Septic Fees Paid:

IP ($250.00) lwa 11/19/14 Initials/Date

CA ($200.00) lwa 1/29/15 Initials/Date

OP ($200.00) lwa 1/29/15 Initials/Date

(CA and OP fees need to be paid before a building permit can be issued)

New Well Fee Paid: $550.00 _____ Initials/Date

Use Existing Fee Paid: $100.00 _____ Initials/Date

Alteration Fee Paid: $300.00 (Total) $200 (If use existing was paid)_____ Initials/Date

Modified Plot Plan Fee Paid: $100.00 _____ Initials/Date

Floor plans need to be submitted and reviewed before CA can be issued. ☑ Reviewed ☑ SAM 2/9/15
OK to issue CA

This site is served by septic and well. Verify each is complete before final hold is released. ☐

Septic file completed. ☐ _____ Well file completed. ☐ _____

Send permit for signature. ☑ Signature received. ☑ 2/6/15

This septic system requires a certified operator contract before final hold is released. ☑

Certified operator contract is on file. ☑ SAM

Groundwater & Wastewater Services
Septic Project File & Data Review Worksheet

GWS File #: 9066B WASPS App #: 7175

Primary ES assigned to project: Brad Hallman

Secondary ES assigned to project:

Project Type: New System ☐ Alteration ☐ Repair ☐ Modified Plot Plan ☐

I. File Review:

Rule or Law	Permit Application			
.1937(d)	Is the Application complete	Yes ☑	No ☐	N/A ☐
.1937(d)	Is there a Site plan/Plat with application	Yes ☑	No ☐	N/A ☐
.1937(d)	Is the Facility shown?	Yes ☑	No ☐	N/A ☐
.1937(d)	Are appurtenances shown	Yes ☑	No ☐	N/A ☐
	Site Evaluation Information			
.1939 (a)(1)	Topography and Landscape Position Recorded?	Yes ☑	No ☐	N/A ☐
.1940 (a-g)	Slope % Recorded?	Yes ☑	No ☐	N/A ☐
.1939 (a)(2)	Texture Class Recorded?	Yes ☑	No ☐	N/A ☐
.1939 (a)(2)	Structure type Recorded?	Yes ☑	No ☐	N/A ☐
.1939 (a)(2)	Consistence Recorded?	Yes ☑	No ☐	N/A ☐
.1939 (a)(2)	Mineralogy Recorded?	Yes ☑	No ☐	N/A ☐
.1939 (a)(3)	Soil Wetness Condition Recorded?	Yes ☑	No ☐	N/A ☐
.1939 (a)(4)	Soil Depth to Rock or Parent Material Recorded When Encountered	Yes ☑	No ☐	N/A ☐
.1939 (a)(5)	Depth to Restrictive Horizons Recorded When Encountered?	Yes ☑	No ☐	N/A ☐
.1939 (a)(6)	Sufficient Available Space Recorded?	Yes ☑	No ☐	N/A ☐
.1937(m)	Are the Profile Locations Shown?			
.1939(a)	Are the S/PS Profiles in system & in repair area?	Yes ☑	No ☐	N/A ☐
& .1945(b)	Number of auger borings made: 4			
	Were sufficient auger borings made?	Yes ☑	No ☐	N/A ☐
.1939(d), .1955, .1956, .1957	LTAR 0.275 initial 0.1 Repair	Yes ☑	No ☐	N/A ☐
	Improvement Permit/Construction Authorization			
.1937(g) 130A-336(a)	Proposed System Type stated-Initial	Yes ☑	No ☐	N/A ☐
.1945(b)	Proposed System Type stated-Repair	Yes ☑	No ☐	N/A ☐
130A-336 (a)(3)	System location identifiable by setbacks - Initial	Yes ☑	No ☐	N/A ☐
.1937(g) .1945(b)	System components shown – Initial	Yes ☑	No ☐	N/A ☐
.1945(b)	Repair area shown	Yes ☑	No ☐	N/A ☐
.1937 (f)(g)	Does System design match facility, flow & WWcharacteristics?	Yes ☑	No ☐	N/A ☐
.1937 (f)(g)	Is System design consistent with soil/site conditions?	Yes ☑	No ☐	N/A ☐
.1937 (f)(g)	Is the System located in the approved area?	Yes ☑	No ☐	N/A ☐
130A-336(a)	Is the Design flow (gpd) indicated?	Yes ☑	No ☐	N/A ☐

130A-336(a)	Number of Bedrooms, employees, seats, etc. indicated?	Yes ☑	No ☐	N/A ☐
.1937(g)	Trench depth indicated?	Yes ☑	No ☐	N/A ☐
.1937(g)	Trench width indicated?	Yes ☑	No ☐	N/A ☐
.1937(g)	Trench length indicated?	Yes ☑	No ☐	N/A ☐
130A-336(a)(1)	Proposed/existing well shown?	Yes ☐	No ☐	N/A ☑
130A-336(a)(1)	Property line lengths shown?	Yes ☑	No ☐	N/A ☐
130A-336(a)	Facility/appurtenance setbacks shown from fixed points?	Yes ☑	No ☐	N/A ☐
	Operation Permit			
.1937(i)	System type as described in table V(a) of rule .1961	Yes ☐	No ☐	N/A ☐
.1937(i)	Conditions for system performance, operation, maintenance, monitoring and reporting.	Yes ☐	No ☐	N/A ☐

II. WASPS Review:

Construction authorization issued	Yes ☐	No ☐	N/A ☐
Installation approval issued	Yes ☐	No ☐	N/A ☐
Operation permit issued	Yes ☐	No ☐	N/A ☐
Other related documentation	Yes ☐	No ☐	N/A ☐

Items requiring correction/modification: _____

Comments:

_____

_____

_____

_____

_____

IA issued date: 6/18/15

OP issued date: 6/24/15

Review performed by: JAM Date performed: _____

DocuSign Envelope ID: DFADCD8B-63C7-485C-A8D6-52D39FF7689B

9066B

MECKLENBURG COUNTY
HEALTH DEPARTMENT

Appt #7175

APPLICATION FOR A RESIDENTIAL SITE IMPROVEMENT PERMIT/ CONSTRUCTION AUTHORIZATION FOR AN ON-SITE WASTEWATER SYSTEM, NEW WELL INSTALLATION, OR REPAIR OF EXISTING WELL

1. **SEPTIC / TYPE APPLICATION:** ○ N/A ◉ NEW SYSTEM ○ ALTERATION ○ REPAIR ○ MODIFIED PLOT PLAN

2. **WELL / TYPE APPLICATION:** ◉ N/A ○ NEW WELL ○ MAJOR REPAIR ○ ABANDONMENT

3. **JOB LOCATION INFORMATION:**

TAX PARCEL NUMBER: 19507371
STREET ADDRESS: 3608 PIAFFE AVE
CITY: MINT HILL
STATE: NC ZIP: 28227
SUBDIVISION NAME: CHEVAL
LOT #: 60 LOT SIZE (acres): 1.36
TOWNSHIP:

○ MECKLENBURG ○ CORNELIUS ○ HUNTERSVILLE
○ DAVIDSON ○ CHARLOTTE ○ PINEVILLE
○ MATTHEWS ◉ MINT HILL

4. **BUILDING INFORMATION:**

BUILDING TYPE:

○ SINGLE MOBILE HOME ○ MODULAR HOME
○ DOUBLE WIDE ○ MULTIPLE FAMILY
◉ HOUSE ○ OTHER _____

HEATED SQUARE FOOTAGE: 4,879
NUMBER OF BEDROOMS: 5
NUMBER OF OCCUPANTS: 1

FOUNDATION TYPE:

○ CONCRETE SLAB ○ BASEMENT WITH PLUMBING
◉ CRAWL SPACE ○ BASEMENT WITH NO PLUMBING

5. **IF PLANNING TO EXPAND OR ALTER THE EXISTING SEPTIC SYSTEM PLEASE COMPLETE THE FOLLOWING SECTION:** ☐ N/A

NUMBER OF BEDROOMS TO BE ADDED: _____ NUMBER OF ADDITIONAL OCCUPANTS IN THE RESIDENCE: _____

6. **WATER SUPPLY:** ◉ MUNICIPAL ○ PRIVATE WELL ○ PUBLIC WELL ○ SHARED WELL ○ OTHER _____

7. **PROPOSED USE OF WELL:** ○ N/A ○ IRRIGATION ○ POTABLE (DRINKING WATER) ○ OTHER _____

8. **PLEASE INDICATE AND RANK DESIRED SEPTIC SYSTEM TYPE(S) IN ORDER OF PREFERENCE** *(1-MOST DESIRED 5-LEAST DESIRED):*

☐ N/A ☐ ANY TYPE ☑ CONVENTIONAL ☐ ACCEPTED ☐ INNOVATIVE ☐ ALTERNATIVE ☐ OTHER _____

8A. **RANK:** ____ ____ ____ ____ ____

9. **DO ANY OF THE FOLLOWING APPLY TO THE PROPERTY IN QUESTION? IF "YES" PLEASE ATTACH SUPPORTING DOCUMENTATION.**

BURIED CABLES, LANDFILLS, STUMPHOLES	○ YES ◉ NO	GRADING/SOIL REMOVAL PERFORMED	◉ YES ○ NO
EXISTING WASTEWATER (SEPTIC) SYSTEMS	○ YES ◉ NO	JURISDICTIONAL WETLANDS	○ YES ◉ NO
WELLS, SPRINGS, OR WATER LINES	○ YES ○ NO	APPROVAL REQUIRED BY ANY OTHER PUBLIC AGENCY	○ YES ◉ NO
EASEMENTS OR RIGHT-OF-WAYS	◉ YES ○ NO	WASTEWATER OTHER THAN DOMESTIC SEWAGE	○ YES ◉ NO
CHEMICAL/PETROLEUM STORAGE TANKS	○ YES ○ NO	KNOWN UNDERGROUND CONTAMINATION	○ YES ◉ NO
WASTE STORAGE	○ YES ◉ NO	GROUNDWATER USE RESTRICTIONS/VARIANCES	○ YES ◉ NO

10. **WHAT DATE WAS THE PROPERTY ORIGINALLY DEEDED AND RECORDED?** 8/23/06 ☐ UNKNOWN

11. **WHAT IS THE ANTICIPATED CLOSING DATE FOR THIS PROPERTY?** _____ ☑ N/A

12. **PROPERTY OWNER:**

NAME: NEW OLD LLC
ADDRESS: 1920 ABBOTT STREET SUITE 300
CITY: CHARLOTTE
STATE: NC ZIP: 28203
WORK PHONE: (704) 975-3770
MOBILE PHONE: _____
FAX: _____
E-MAIL: TROY@NEWOLD.COM

13. **OWNER'S LEGAL REPRESENTATIVE, IF APPLICABLE:**

NAME: _____
ADDRESS: _____
CITY: _____
STATE: _____ ZIP: _____
WORK PHONE: _____
MOBILE PHONE: _____
FAX: _____
E-MAIL: _____

MECKLENBURG COUNTY – GROUNDWATER & WASTEWATER SERVICES
700 N. TRYON ST. SUITE 211 CHARLOTTE, NC 28202, OFFICE: 704-336-5103, FAX: 704-336-6894

Revised on: 12/15/10

14. SEPTIC SYSTEM PERMIT APPLICATION:

If the information in this application is falsified, changed, or the site is altered, then the Improvement Permit and Authorization to Construct shall become invalid. I have read this application and certify that the information provided herein is true, complete and correct. Authorized county and state officials are granted right of entry to conduct necessary inspections to determine compliance with applicable laws and rules. I understand that I am solely responsible for the proper identification and labeling of all property lines and corners and making the site accessible so that a complete site evaluation can be performed. The permit is valid for either sixty (60) months or is non-expiring depending upon the documentation submitted: complete site plan = 60 months, complete plat = non-expiring.

TSL (*Initial here for septic system applications*)

15. WELL PERMIT APPLICATION:

If the information in this application is falsified, changed, or the site is altered, then the Well Permit shall become invalid. I have read this application and certify that the information provided herein is true, complete and correct. Authorized county and state officials are granted right of entry to conduct necessary inspections to determine compliance with applicable laws and rules. I understand that I am solely responsible for the proper identification and labeling of all property lines and corners and making the site accessible so that a complete site evaluation can be performed. The permit is valid for a period of twelve (12) months from the date of issuance.

_____ (Initial here for well applications)

16. APPLICATION SIGNATURE SECTION:

ONLY COMPLETE APPLICATIONS WILL BE PROCESSED. A proper signature is required in order to process your application. Please review the application carefully and sign in the space provided below. A PROPOSED PLOT PLAN is required to be submitted with each application.

DocuSigned by:

_____ 11/14/14

Property Owner's or Owner's Legal Representative Signature — *Date*

OFFICE USE ONLY

○ SURVEY PLAT TO SCALE SUBMITTED ○ SCALED SITE PLAN SUBMITTED ○ UN-SCALED SITE PLAN SUBMITTED

SEPTIC APPLICATION FEE RECEIVED: $ 250 DATE FEE RECEIVED: 11/19/14

WELL APPLICATION FEE RECEIVED: $ _____ DATE FEE RECEIVED: _____

APPLICATION PROCESSED BY: lws

GWS FILE NUMBER ASSIGNED: 9066B

APPLICATION ID NUMBER ASSIGNED: 7175

COMMENTS:

MECKLENBURG COUNTY – GROUNDWATER & WASTEWATER SERVICES
700 N. TRYON ST. SUITE 211 CHARLOTTE, NC 28202, OFFICE: 704-336-5103, FAX: 704-336-6894

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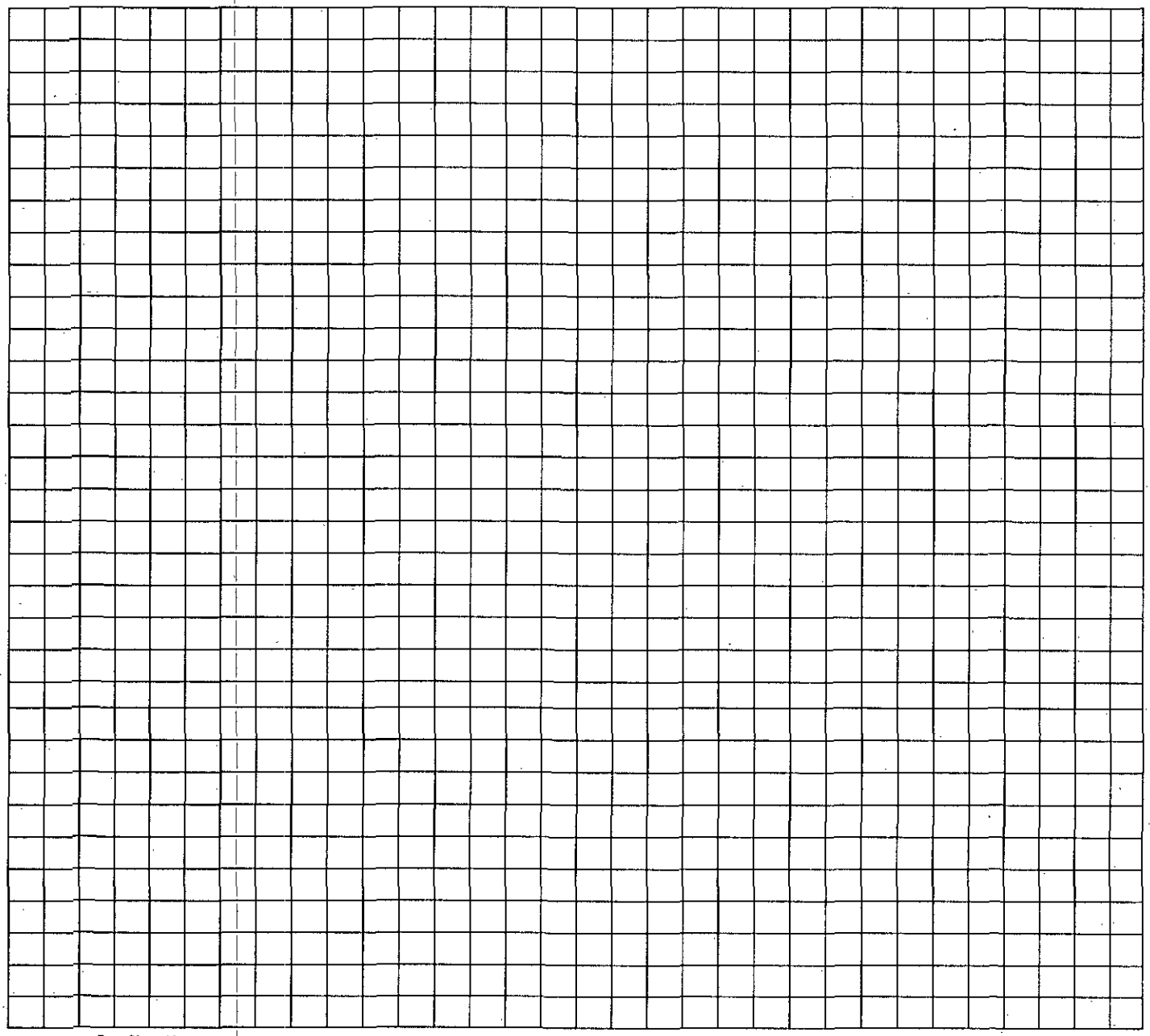
File #: _____

PROPOSED PLOT PLAN

A drawing showing the locations of the following items is required: existing and proposed property lines with dimensions, easements or right-of-ways, proposed building pad(s) or existing building footprint(s), all appurtenances (garage, driveway, deck, pool, etc.), location of existing or proposed well(s), location of existing or proposed sewer lines and sewage disposal systems, surface water bodies, and any aboveground or underground storage tanks. Provide names for all roads that adjoin the property.

Street Address: 3068 PIAFFE AVE, MINT HILL Tax Parcel #: 19507371

Subdivision Name: CHEVAL Lot #: 60



DocuSigned by:

Property Owner's or Owner's Legal Representative Signature

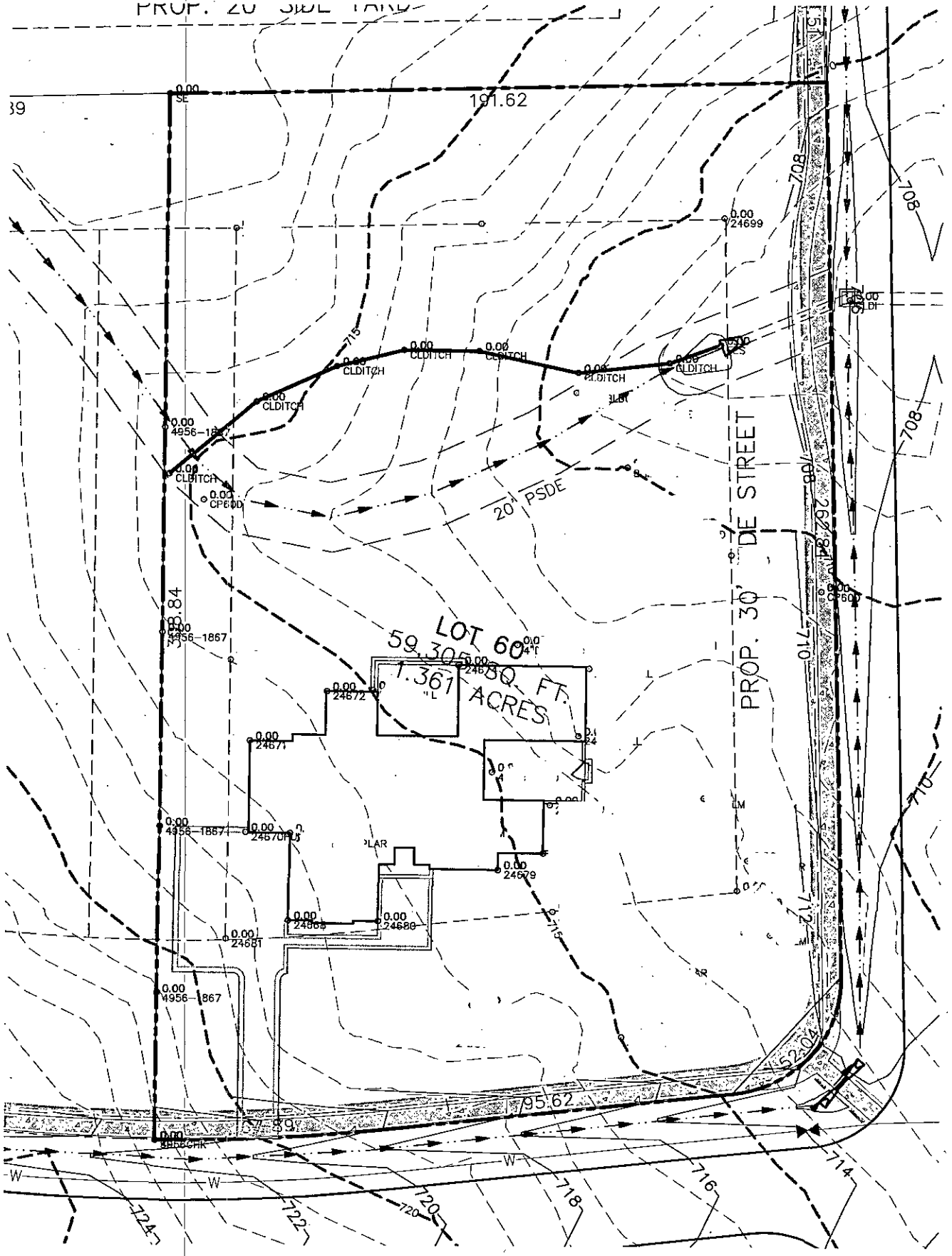
11/14/14

Date

MECKLENBURG COUNTY – GROUNDWATER & WASTEWATER SERVICES
700 N. TRYON ST. SUITE 211 CHARLOTTE, NC 28202, OFFICE: 704-336-5103, FAX: 704-336-6894

Revised on: 12/15/10

1"=40'


PROP. 20' SIDE YARD
191.62
PROP. 30' DE STREET
20' PSDE
LOT 60
59,305 SQ. FT.
1.367 ACRES
95.62
S 89°
52.04
708
710
712
714
716
718
720
722
724
715
CLDITCH
4956-1867
24672
24671
24679
24680
24681
24699

MECKLENBURG COUNTY
LAND USE AND ENVIRONMENTAL SERVICES
Payment Receipt

Receipt Information

Date: 11/19/14
Receipt #: 91693
Check / Auth #: CHARGE
Received By: SADERLW

Amount: 250.00
Tendered: 250.00
Returned: 0.00

Account Information

Account #: X46941
Contractor: NEW OLD LLC
Attn:
Address: 1920 ABBOTT ST
Address: SUITE 300
City/State/Zip: CHARLOTTE, NC 28203

Item	Description	Permit#	Quantity	Unit Price	Total Price
0701	Improvment Permit App-Residen 3608 Piaffe Ave		1	250.00	250.00

Outstanding Balances

Month-To-Date	Prior Month	30 Days	60 Days	90 Days	Balance
-434.14					

MECKLENBURG COUNTY
LAND USE AND ENVIRONMENTAL SERVICES
Payment Receipt

Receipt Information

Date: 01/29/15
Receipt #: 92450
Check / Auth #: CHARGE
Received By: SADERLW

Amount: 200.00
Tendered: 200.00
Returned: 0.00

Account Information

Account #: X46941
Contractor: NEW OLD LLC
Attn:
Address: 1920 ABBOTT ST
Address: SUITE 300
City/State/Zip: CHARLOTTE, NC 28203

Item	Description	Permit#	Quantity	Unit Price	Total Price
0703	Septic Operational Permit 3608 PIAFFE AVE		1	200.00	200.00

Outstanding Balances

Month-To-Date	Prior Month	30 Days	60 Days	90 Days	Balance
-4,141.50					

MECKLENBURG COUNTY
LAND USE AND ENVIRONMENTAL SERVICES
Payment Receipt

Receipt Information

Date: 01/29/15
Receipt #: 92451
Check / Auth #: CHARGE
Received By: SADERLW

Amount: 200.00
Tendered: 200.00
Returned: 0.00

Account Information

Account #: X46941
Contractor: NEW OLD LLC
Attn:
Address: 1920 ABBOTT ST
Address: SUITE 300
City/State/Zip: CHARLOTTE, NC 28203

Item	Description	Permit#	Quantity	Unit Price	Total Price
0734	Septic Construction Authorizat 3608 PIAFFE AVE		1	200.00	200.00

Outstanding Balances

Month-To-Date	Prior Month	30 Days	60 Days	90 Days	Balance
-3,941.50					

Department of Environment, Health, and Natural Resources
Division of Environmental Health
On-site Wastewater Section

Sheet: 1 of 2
Property ID: 195-073-71
Lot #: 60
File #: 9066B
AppID: 7175

SOIL/SITE EVALUATION
for ON-SITE WASTEWATER SYSTEM

Property Owner: New Old LLC
Applicant: owner
Address: 1920 Abbott St, Suite 300, Charlotte, NC 28227
Date Evaluated: 11/25/2014
Proposed Facility: 5 Bedroom House
Design Flow (.1949): 600 GPD
Property Size: 1.36 ac
Location of Site: 3608 Piaffe Ave, Mint Hill, NC 28227
Property Recorded: 8/23/06
Water Supply: [X] Public [ ] Individual [ ] Well [ ] Spring [ ] Other
Evaluation Method: [X] Auger Boring [ ] Pit [ ] Cut
Type of Wastewater: [X] Sewage [ ] Industrial Process [ ] Mixed

PROFILE #	1940 Landscape Position/ Slope%	Horizon Depth (IN)	SOIL MORPHOLOGY 1941 1941 Structure/ Texture	1941 Consistence Mineralogy	b PROFILE FACTORS 1942 Soil Wetness/ Color	1943 Soil Depth (IN)	1956 Sapro Class	1944 Restr Horiz	General Comments	Profile Class & LTAR	Maximum Trench Bottom Depth for 3' Wide Conventional Trench
Boring #1	LS 6%	0 - 4	gr L	SS SP FR SEXP	>50	50	NA	NA	manganese 30 - 50"	PS IV 0.275	36"
		4 - 16	wfsbk CL	SS SP FR SEXP							
		16 - 50	mfsbk C	S P FI SEXP							
Boring #2	LS 6%	0 - 3	gr L	SS SP FR SEXP	2 chroma @ 38"	44	NA	NA	manganese 20 - 44"	PS IV 0.275	24"
		3 - 14	wfsbk CL	S SP FR SEXP							
		14 - 44	mfabk C	S P FI SEXP							
Boring #3	LS 6%	0 - 3	gr L	SS SP FR SEXP	>50	50	NA	NA	manganese 24 - 50"	PS IV 0.275	36"
		3 - 15	wfsbk C	S P FI SEXP							
		15 - 50	mfabk C	S P FI SEXP							
Boring #4	LS 6%	0 - 4	gr L	SS SP FR SEXP	2 chroma @ 22" (may be Lithochromic)	50	NA	NA	need pit to evaluate mottles	PS IV Drip @ 0.1	NA
		4 - 39	mmsbk C	S P FI SEXP							
		39 - 48	wmsbk CL	SS SP FR SEXP							

Description	Initial System	Repair System
Available Space (.1945)	PS	PS
System Type(s)	IVa	Iva
Site LTAR (gpd/sq ft)	0.275	0.1

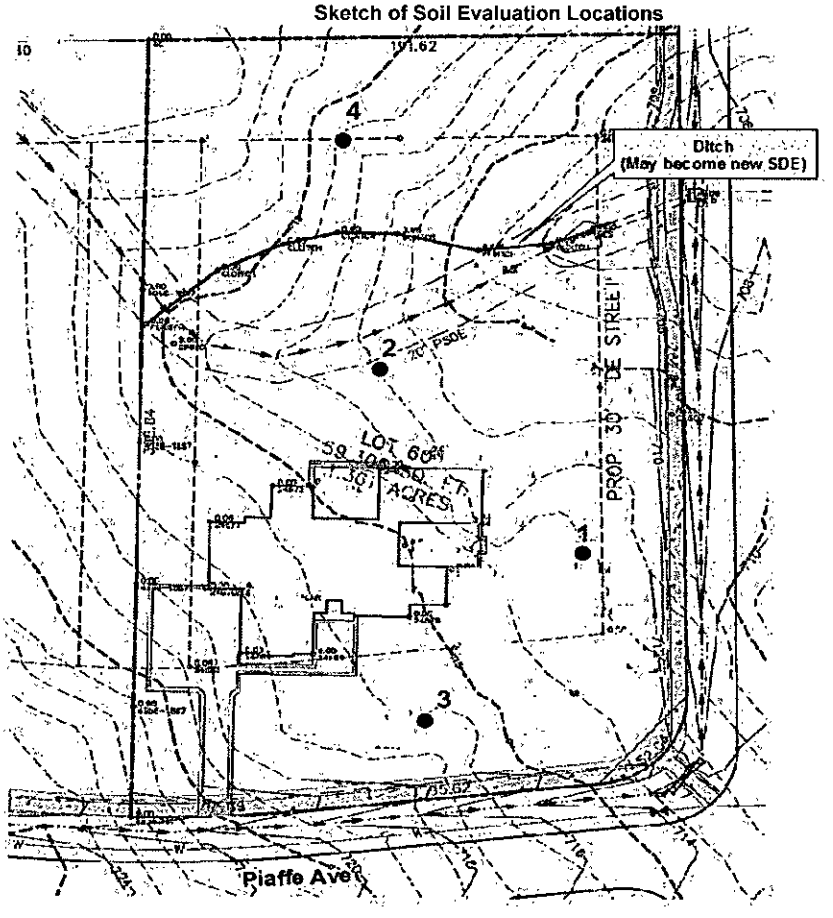
Other Factors (.1946):
Soil Evaluation By: Jacob Presley, REHSI, LSS
Others Present:
Site Classification (.1948): PS
Site Evaluation By: Bradley W Hallman
Others Present:

COMMENTS: Evaluation done for alteration from 4 BR to 6 BR.

Landscape Position	Group	Texture	.1955 LTAR	Structure
R-Ridge	I	S-Sand	1.2 - 0.8	sg-Single Grain
SS-Shoulder Slope		LS-Loamy Sand		mass-Massive
LS-Linear Slope				cr-Crumb
FS-Foot Slope	II	SL-Sandy Loam	0.8 - 0.6	gr-Granular
NS-Nose Slope		L-Loam		sbk-Subangular Blocky
HS-Head Slope				abk-Angular Blocky
CC-Concave Slope	III	Si-Silt	0.6 - 0.3	pl-Platy
CV-Convex Slope		SiCL-Silty Clay Loam		pr-Prismatic
T-Terrace		CL-Clay Loam		Sap-Saprolite
FP-Flood Plain		SCL-Sandy Clay Loam		**Structure Prefixes**
D-Drainage Way		SiL-Silt Loam		w-weak
				m-moderate
	IV	SC-Sandy Clay	0.4 - 0.1	s-strong
		SiC-Silty Clay		f-fine
		C-Clay		m-medium
				c-coarse

Consistence Moist	Consistence Wet	Mineralogy
VFR-Very Friable	SS-Slightly Sticky	SEXP-Slightly Expansive
FR-Friable	S-Sticky	EXP-Expansive
FI-Firm	VS-Very Sticky	
VFI-Very Firm	NP-Non-Plastic	**Classification**
EFI-Extremely Firm	SP-Slightly Plastic	US-Unsuitable
	P-Plastic	PS-Provisionally Suitable
	VP-Very Plastic	S-Suitable
		NA-Not Applicable

Sketch of Soil Evaluation Locations



Department of Environment, Health, and Natural Resources
Division of Environmental Health
On-site Wastewater Section

Sheet: 1 of 2
Property ID: 195-073-71
Lot #: 60
File #: 9066B
AppID: 7175

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FS-Foot Slope
NS-Nose Slope
HS-Head Slope
CC-Concave Slope
CV-Convex Slope
T-Terrace
FP-Flood Plain
D-Drainage Way

Group	Texture	.1955 LTAR
I	S-Sand	1.2 - 0.8
	LS-Loamy Sand	
II	SL-Sandy Loam	0.8 - 0.6
	L-Loam	
III	Si-Silt	0.6 - 0.3
	SiCL-Silty Clay Loam	
	CL-Clay Loam	
	SCL-Sandy Clay Loam	
	SiL-Silt Loam	
IV	SC-Sandy Clay	0.4 - 0.1
	SiC-Silty Clay	
	C-Clay	

Structure

sg-Single Grain
mass-Massive
cr-Crumb
gr-Granular
sbk-Subangular Blocky
abk-Angular Blocky
pl-Platy
pr-Prismatic
Sap-Saprolite

Structure Prefixes

w-weak
m-moderate
s-strong
f-fine
m-medium
c-coarse

Consistence
Moist

VFR-Very Friable
FR-Friable
FI-Firm
VFI-Very Firm
EFI-Extremely Firm

Consistence
Wet

SS-Slightly Sticky
S-Sticky
VS-Very Sticky
NP-Non-Plastic
SP-Slightly Plastic
P-Plastic
VP-Very Plastic

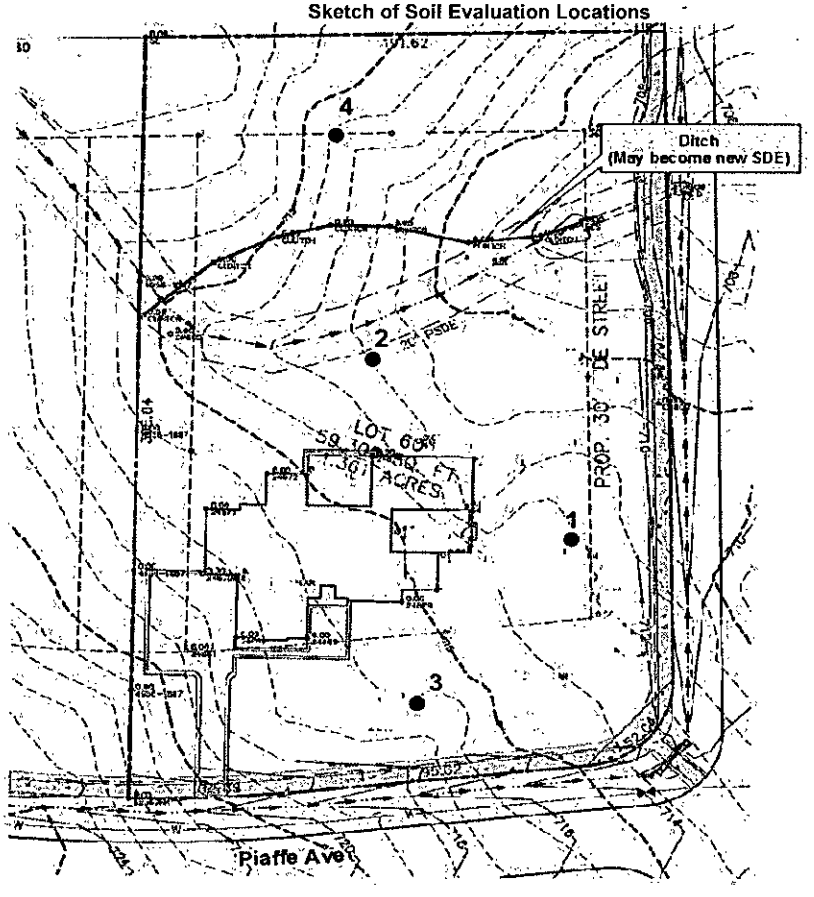
Mineralogy

SEXP-Slightly Expansive
EXP-Expansive

Classification

US-Unsuitable
PS-Provisionally Suitable
S-Suitable
NA-Not Applicable

Sketch of Soil Evaluation Locations



Mecklenburg County Groundwater & Wastewater Services
700 N. Tryon St, Suite 211 Charlotte, NC 28202
Phone: (704) 336-5103 Fax: (704) 336-6894

NC DENR
Division of Environmental Health
On-Site Wastewater Section

IMPROVEMENT PERMIT for a RESIDENTIAL ON-SITE WASTEWATER TREATMENT & DISPOSAL SYSTEM

Permit #: **30007175** GWS File #: **9066B** Tax Parcel #: **195-073-71**

- This IMPROVEMENT PERMIT is subject to revocation if site plans or the intended use change. There is to be **NO** *grading, filling, or disturbance of the soil in the area of the septic tank system or repair area.*
- CONSTRUCTION AUTHORIZATION must be obtained prior to receiving a Building Permit. The Construction Authorization is **NOT** transferable. Do not clear, grade, fill or disturb soil prior to obtaining a Construction Authorization.
- Domestic-type wastewater only. No industrial process wastewater may be discharged into the system.

I. This Improvement Permit Shall: Expire in Five (5) Years **Expiration Date (If Applicable):** 1/29/2020

Type of Installation: Residential - New System Lot Number: 60

Structure Type: HOUSE Size (ft^2): 4879 # Bedrooms: 5 # Occupants: 1

Building Foundation: Crawl Space Water Supply: Municipal

II. Initial System Type: PPBPS (pressurized) **System Classification:** IVa

Initial System Specifications:

Design Flow (gpd):	600	LTAR (gpd/ft^2):	0.275	Septic Tank Size (gal):	1500	Pump Tank Size (gal):	1500
Trench Width (ft):	2	Trench Spacing (ft):	8	Absorption Area (ft^2):	728	Total Trench Length (ft):	364
Maximum Trench Depth (in):	36	Depth of Media (in):	N/A	Distribution Device:	Manifold (LPP Distn		

III. Repair System Type: Drip Irrigation **System Classification:** IVa

Repair System Specifications:

Design Flow (gpd):	600	LTAR (gpd/ft^2):	0.1	Septic Tank Size (gal):	1500	Pump Tank Size (gal):	1500
Trench Width (ft):	1	Trench Spacing (ft):	2	Absorption Area (ft^2):	6000	Total Trench Length (ft):	6000
Maximum Trench Depth (in):	6	Depth of Media (in):	N/A	Distribution Device:	Headworks (Drip Irr.		

IV. Permit Conditions/Comments:

(Please See the Following Page for Permit Conditions.)

The undersigned, an authorized agent of the MECKLENBURG COUNTY HEALTH DEPARTMENT, certifies that the Department is issuing an IMPROVEMENT PERMIT for the above referenced property. This permit is being issued in accordance with the *Laws and Rules For Sewage Treatment, and Disposal Systems* and is subject to the following provisions:

- No work shall be conducted on the septic system until an INSTALLATION APPROVAL is granted by the Department.
- The septic system installer shall be a registered septic contractor with Mecklenburg County Health Department
- The permitted system shall be installed in accordance with the included PLOT PLAN.
- This IMPROVEMENT PERMIT is transferable.

DENR Authorized Agent: Brad Hallman Owner/Legal Agent: Troy Wadsworth Newland, LLC
Print Name

Signature: Signature:

Date Issued: 1/29/2015

Mecklenburg County Groundwater & Wastewater Services
700 N. Tryon St, Suite 211 Charlotte, NC 28202
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NC DENR
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On-Site Wastewater Section

IMPROVEMENT PERMIT for a RESIDENTIAL ON-SITE WASTEWATER TREATMENT & DISPOSAL SYSTEM

Permit #: **30007175** GWS File #: **9066B**

IV. Permit Conditions/Comments:

- This type of septic system requires an inspection once every 3 years by our office. The system owner is responsible for any fees, as determined by the Mecklenburg County Board of Commissioners, associated with this inspection.
- This type of septic system requires a Certified Operator to maintain the system. A system maintenance contract with a Certified Operator must be on file prior to issuance of an Operation Permit.
- This type of repair system requires the installation of a pump tank and all associated components. This type of system will require routine inspections by our office. The system owner is responsible for all fees associated with these inspections.
- This type of repair system requires the property owner to obtain a contract with a Certified Operator to perform routine inspections and maintenance on the system.
- This type of repair system requires periodic inspections by our office. The system owner is responsible for any fees, as determined by the Mecklenburg County Board of Commissioners, associated with this inspection.
- All components of the septic system must be installed in accordance with the required setbacks listed on the corresponding plot plan.
- All waterlines must be located a minimum of 10 ft. from any part of the septic system.
- Upon completion of the project the system designer shall provide Groundwater & Wastewater Services with a letter certifying that the system was installed in accordance with the approved design.
- Flow from all gutters and downspouts shall be directed not to discharge water onto or across any part of the septic system.
- Foundation drains shall be constructed not to discharge water onto or across any part of the septic system.
- The septic system shall be located at least 10 feet from any foundation drain.

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DENR Authorized Agent: Brad Hallman

Signature:

Date Issued: 1/29/2015

Owner/Legal Agent: Terry Wolfmann - New Ad, LLC
Print Name

Signature:

Mecklenburg County Groundwater & Wastewater Services
700 N. Tryon St, Suite 211 Charlotte, NC 28202
Phone: (704) 336-5103 Fax: (704) 336-6894

NC DENR
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On-Site Wastewater Section

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Repair System Specifications:

Design Flow (gpd):	600	LTAR (gpd/ft^2):	0.1	Septic Tank Size (gal):	1500	Pump Tank Size (gal):	1500
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- This IMPROVEMENT PERMIT is transferable.

DENR Authorized Agent: Brad Hallman

Signature: _____

Date Issued: 1/29/2015

Owner/Legal Agent: _____
Print Name

Signature: _____

SOIL & FORESTRY SERVICES

A design for a 5 Bedroom PPBPS Septic System using LPP distribution for lot 60 of Cheval Subdivision
3608 Piaffe Avenue, Mint Hill

GWS Septic System Design Review **Approved** **Disapproved**

GWS File #: 10663

Design Review: 1/12/15 ☑ ☐

Field Review: 1/20/15 ☑ ☐

*Projects are not considered "APPROVED" until both sections above are completed and indicate an APPROVED status.

Contents:

	Page
Information for the Installer	1
Design Information	
Design Specifications	2-3
Layout Specifications	4
System Flow	5
Site Plan	6
Septic Tank Diagram	7
Pump Tank Diagram	8
Control Panel Specifications	9-12
Pump Specifications	13-14
Calculations	15
Valve Box Specifications	16

January 2015
Design By: W. Overby

NORTH CAROLINA PROFESSIONAL SEAL 10051 ENGINEER RILEY DEE BURGESS, JR.

1/27/15

CWS Public System Design Review

CWS File #: _____ Approved Disapproved

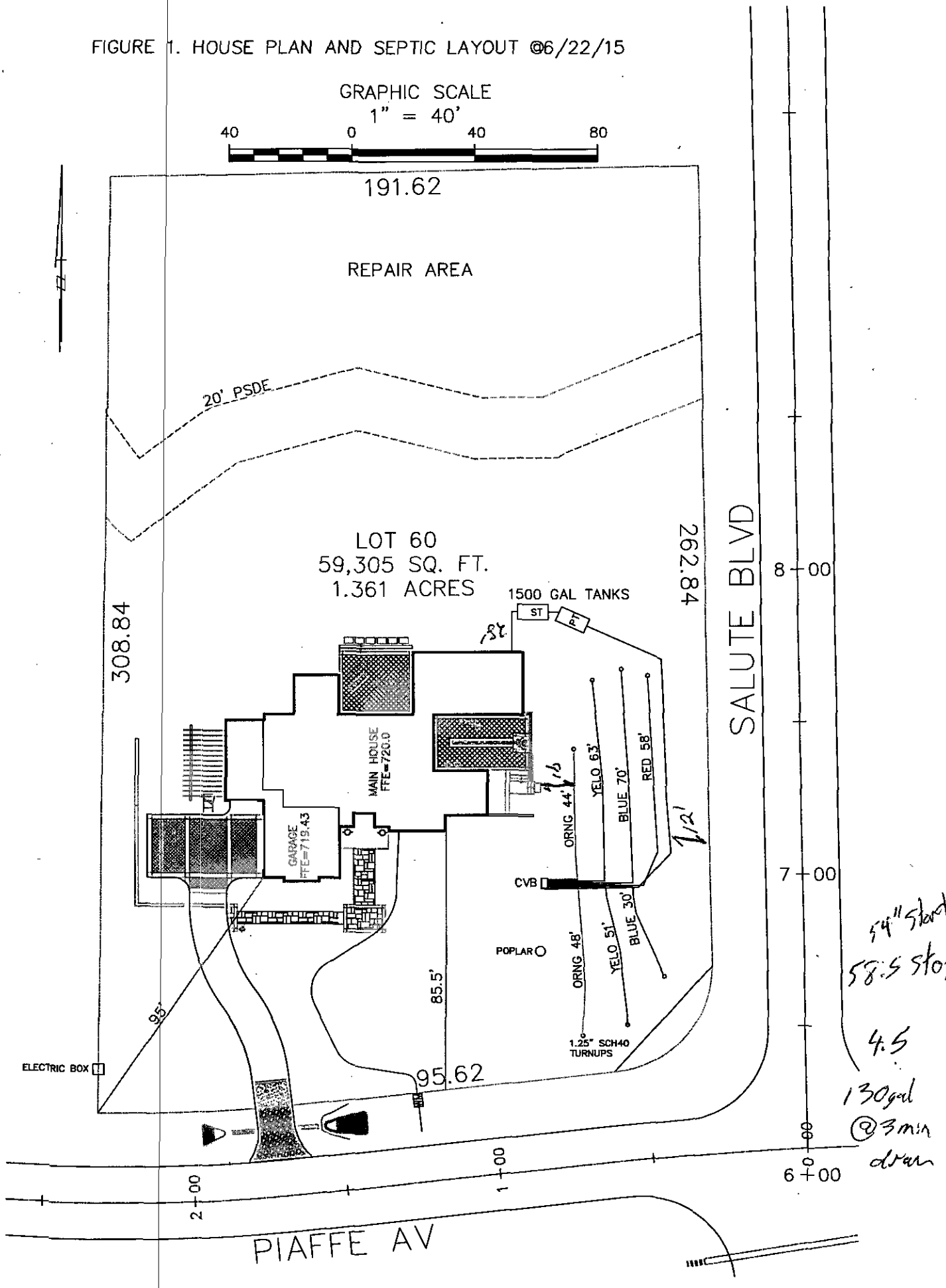
Design ☐ ☐

Eng ☐

*Engineering

the conditions [illegible]

FIGURE 1. HOUSE PLAN AND SEPTIC LAYOUT @6/22/15



INFORMATION FOR THE INSTALLER:

- The permit should be read very carefully prior to bidding. The following are details that must be considered along with all other considerations.
- Tanks shall be approved by DEHNR, and certification supplied by the manufacturer.
- Tanks shall be water tested prior to installation.
- The installer shall be responsible to the owner for placement of the tanks and to insure that final grades are returned to the original natural grade, with exception of added structural features.
- The supply trench shall be compacted to eliminate cavities left during initial fill placement.
- Installation of the system shall be during dry conditions in order to protect the soil
- All fittings shall be pressure rated fittings.
- All joints shall be cleaned with PVC pipe cleaner and a heavy bodied glue applied to weld all joints.
- Where required by the county health department, post installation inspections by the designer must be scheduled 5 week days in advance.
- Trenches shall be carefully excavated so the bottom is within 2" from the highest to the lowest points of elevation within the trench. If the bottom elevation needs adjusting after it has been trenched, it will be done by removing high points rather than filling low points. *It is extremely important to insure* that trenches are not over excavated during initial trenching. All fine grading within the trench will be hand done with a shovel. No loose material will be left in the trench
- All pipe openings in the tanks shall be properly grouted. This also applies to the joints around the riser.
- All tanks shall be properly back filled and compacted to prevent slump at a later date.
- Earth dams, constructed of relatively impervious material, shall be installed at the beginning and end of each lateral.
- No heavy equipment shall be used on the field during or after installation. The use of a small loader (i.e. Bobcat) or a trencher (i.e. Ditch Witch 2300/2310) may be used.
- Elevations at pinflag locations should be checked by the installer prior to beginning
- Pumptank riser should be 6" above grade, control panel should be 12" above grade.
- Septic tank riser shall be a minimum of 6" above finished grade.
- **System specified as PPBPS type using LPP distribution**
- **System trench depth specified at 36"**
- **System trenches installed on 8' minimum; 2' wide trenches**
- **Repair specified as drip irrigation system type**
- **Design specifies supply line of 1.5" Sch40 PVC**
- **See Figure 1. Septic System Layout and House Plan**

PPBPS PRESSURE DOSED SYSTEM
FOR WASTEWATER TREATMENT

Owner:	NewOld LLC
Contact:	Troy Ludemann
Phone:	704 975-3770
County:	Mecklenburg
Location:	Cheval Lot 60

Source of Wastewater Flow:	5 Bedroom Single Family Residence
Estimated Daily Wastewater Production:	600 gpd
System Flow:	33.21 gpm

Design Specifications

Drainfield Size:	364 lf
Loading Rate:	0.275 gpd/ft.^{2}
Depth of Gravel in Trench:	n/a
Gravel Size:	n/a
Trench Depth:	36 in
Trench Width:	24 in.
Septic Tank Size:	1500 gal.
Pump Tank Size:	1500 gal.
Estimated Supply Line Length:	65 lf
Supply Line Diameter:	1.5 in. SCH 40 PVC
Supply Line Volume:	6.89 gal
Dosing Volume:	292.00 gal

Recommended Float Controls:	SJE Sensor Float Control Switches as Required for Control Panel or County Approved Equivalents
Recommended Control Panel:	SJE-Rhombus Model 112 (NEMA 4x) Control Panel or County Approved Control Panel.
Pressure Head:	2 ft.
Friction Head:	4.55 ft
Elevation Head:	6.00 ft
Total Dynamic Head:	14.33 ft
Threaded Union:	In Tank
Gate Valves:	1 in Tank 7 in valve box
Check Valves:	In Tank
Anti-Siphon Hole:	n/a
Recommended Pump:	Myers ME3H Series or County Approved Effluent Rated Pump Capable of Delivering 14 ft.of Head at 33 gpm Total Flow

Cheval Lot 60
PPBPS Design

DESIGN FLOW:	600	gpd
SOIL APPLICATION RATE:	0.275	$gpd/ft.^2$
TOTAL AREA TRENCH BOTTOM:	728	sf
TOTAL LATERAL LENGTH:	364	lf
NUMBER OF FIELDS:	1	
LATERAL LENGTH REQUIRED PER FIELD:	364	lf
SUPPLY LINE LENGTH:	65	lf
TOTAL DYNAMIC HEAD:	14.33	gpm
DOSING VOLUME:	292.00	gal
PUMP TANK DRAW DOWN*:	10.1	in
SEPTIC TANK SIZE:	1500 gal.	
PUMP TANK SIZE:	1500 gal.	
RECOMMENDED PUMP:	Myers Model ME3H Series or County Approved Effluent Rated Pump Capable of Delivering 14 ft.of Head at 33 gpm Total Flow	

**Pump tank draw down based on a volume basis of 29 gallons per inch. Draw down may vary among pump tank manufacturers.*

7175

Cheval Lot 60

Layout for a 5 bedroom home — Jan 2015

LINE #	FLAG COLOR	BS	HI	FS	ELEV	FLAGGED LINE LENGTH	DESIGN LENGTH
TBM/PTANK		5.6			100.0		
INSTR. 1			105.6				
			SYSTEM				
1	Red			4.70	100.9	64	58
2a	Orange			5.45	100.2	100	48
2b	Orange						44
3a	Yellow			5.90	99.7	114	51
3b	Yellow						63
4a	Blue			6.30	99.3	100	30
4b	Blue						70

	LINE LENGTH	LTAR GPD/FT	SYSTEM TYPE	REDUCTION TYPE	DIST.	TRENCH DEPTH
SYSTEM	364	0.275	MOD	50%	LPP	36
REPAIR	6000sf	0.100	DRIP	N/A	DRIP	6

Notes:

**TBM is assumed to be 100'

**All measures in feet

**Nitrification lines are demonstrated on contour via colored pin flags

**BS and FS indicate rod readings

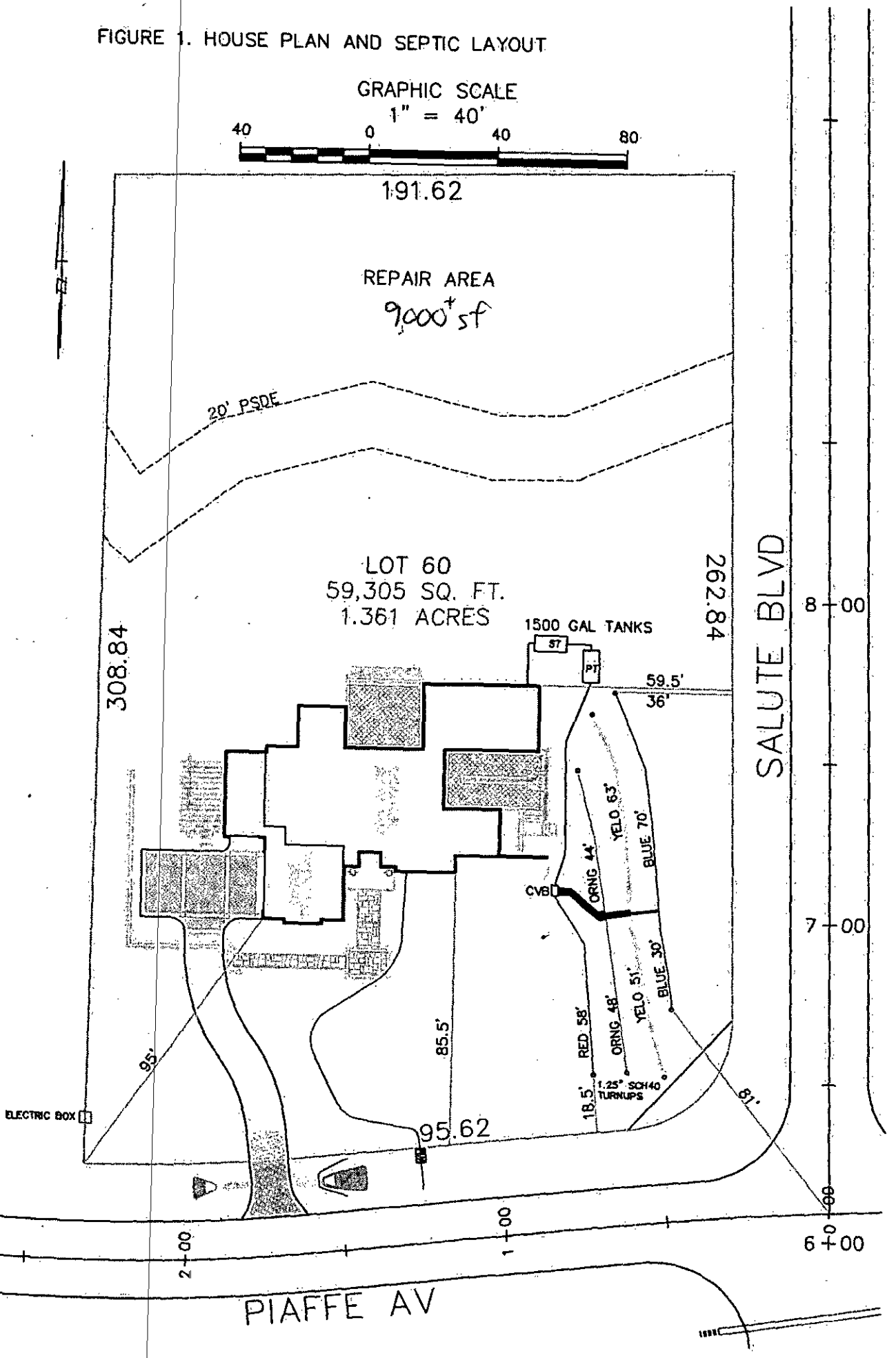
Cheval Lot 60

System (PPBPS)

DESIGN SPECIFICATIONS

Line #	Color	#Panels	#Holes Panel	ft Line Length	Hole Size	ft Line Head	gpm Line Flow
1	Red	13	1	58	5/32"	2	5.33
2a	Orange	11	1	48	5/32"	2	4.51
2b	Orange	10	1	44	5/32"	2	4.10
3a	Yellow	11	1	51	5/32"	2	4.51
3b	Yellow	14	1	63	5/32"	2	5.74
4a	Blue	6	1	30	5/32"	2	2.46
4b	Blue	16	1	70	5/32"	2	6.56
		81		364			33.21

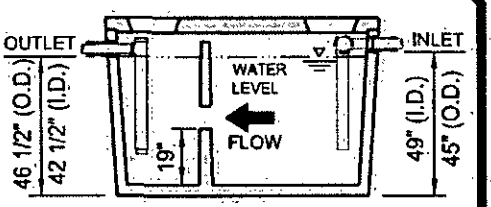
FIGURE 1. HOUSE PLAN AND SEPTIC LAYOUT



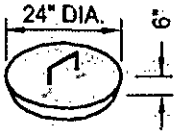
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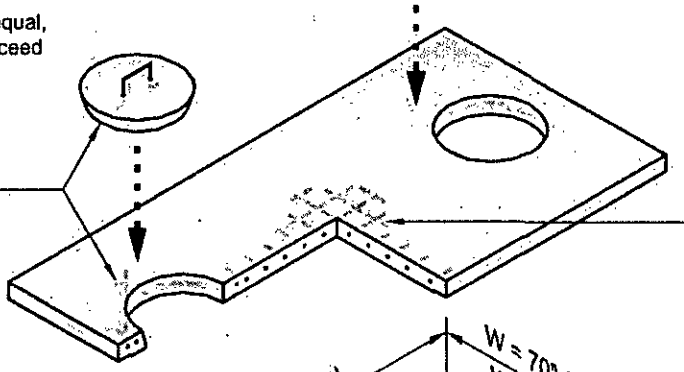
GENERAL NOTES:

1. Design specifications conform to latest ASTM C1227 specifications "Precast Concrete Water and Wastewater Structures"
2. Concrete compressive strength 4,000 psi minimum.
3. Steel reinforcing design to conform to the requirements of ASTM C890 specifications for "Structural Design Loading for Water and Wastewater Structures" and shall utilize grade 60 re-bars conforming to the requirements of ASTM A615 or WWF conforming to the requirements of ASTM A185 or both. Place Additional reinforcing at all openings.
4. Optional EZ set lid cast in place. Supplied by Dellinger Precast. To be field adjusted using approved methods by contractor.
5. Pipe penetration locations as per job requirements. Pipe inlet and outlet locations to have PSX Direct Drive boots or equal. Pipe Inlet locaions (typical 3 sides) to be knock out pannels. Effluent Filter supplied by Dellinger. Inlet Tee & Pipe supplied by contractor.
6. Joints to be *sealed with* ConSeal CS102. butyl rubber joint sealant or equal. Sealant meets or exceeds the requirements of latest federal specification SS-S-0021(210-A), AASHTO M-198B, and ASTM C-990-91.
7. Lift Insert / Lift Eye Pin by M.A Industries or equal, Cast-in by Dellinger Precast. Lifts meet or exceed OSHA requirements.
8. Method of namufacture is Wet Cast.
9. Sections are monolithic. Weights:
   Top Slab 3,134 ± lbs.
   Base Section 9,751 ± lbs.
10. I.D. = Inside dimension
    O.D. = Outside dimension
    L = Length
    W = Width
    H = Height

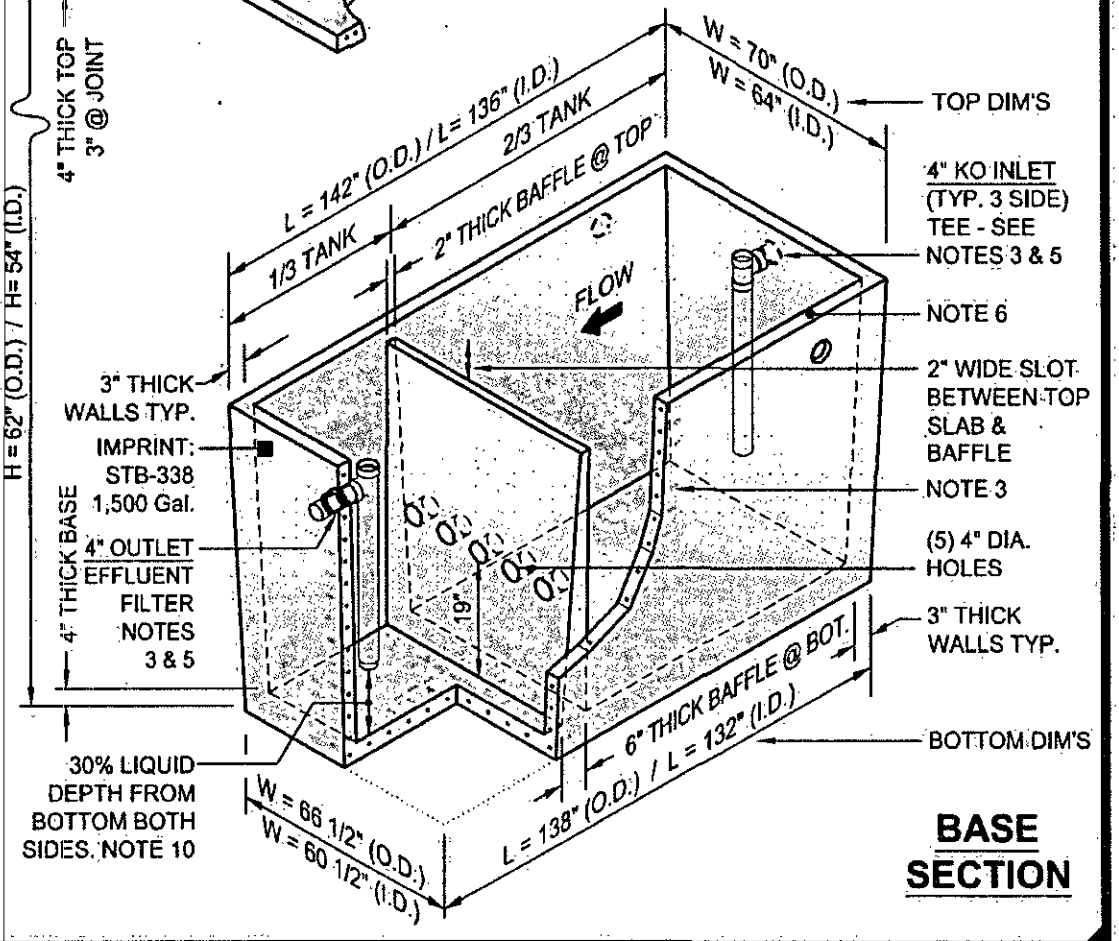


ELEVATION



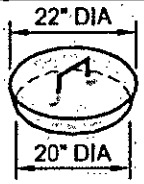


TOP SLAB



BASE SECTION

OPTIONAL ROUND LID



DELLINGER PRECAST

4531 North Hwy 16 • Denver, N.C. 28037 • Phone: 800-948-1666 • 704-483-2868 • Fax: 704-483-2363

1,500 Gallon (Top Slab) SEPTIC TANK

Scale: Not To Scale

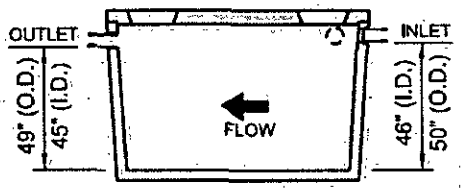
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Detail # ST-1,500-TS

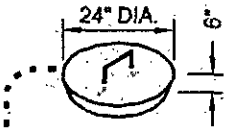
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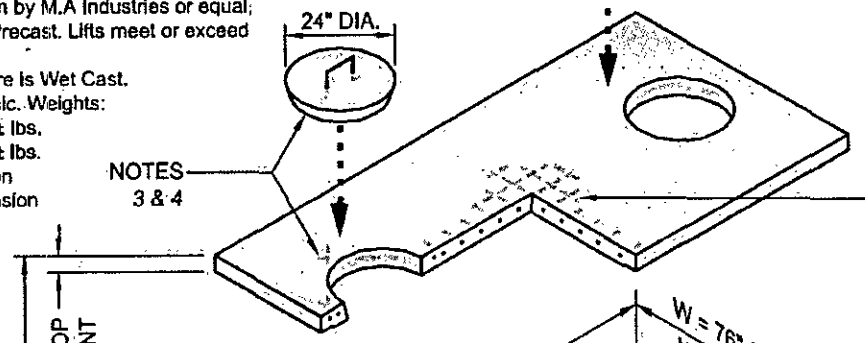
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6. Joints to be sealed with ConSeal CS102, butyl rubber joint sealant or equal. Sealant meets or exceeds the requirements of latest federal specification SS-S-0021(210-A), AASHTO M-198B, and ASTM C-990-91.
7. Lift Insert / Lift Eye Pin by M.A Industries or equal; Cast-in by Dellinger Precast. Lifts meet or exceed OSHA requirements.
8. Method of manufacture is Wet Cast.
9. Sections are monolithic. Weights:
   Top Slab 2,636 ± lbs.
   Base Section 7,453 ± lbs.
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    W = Width
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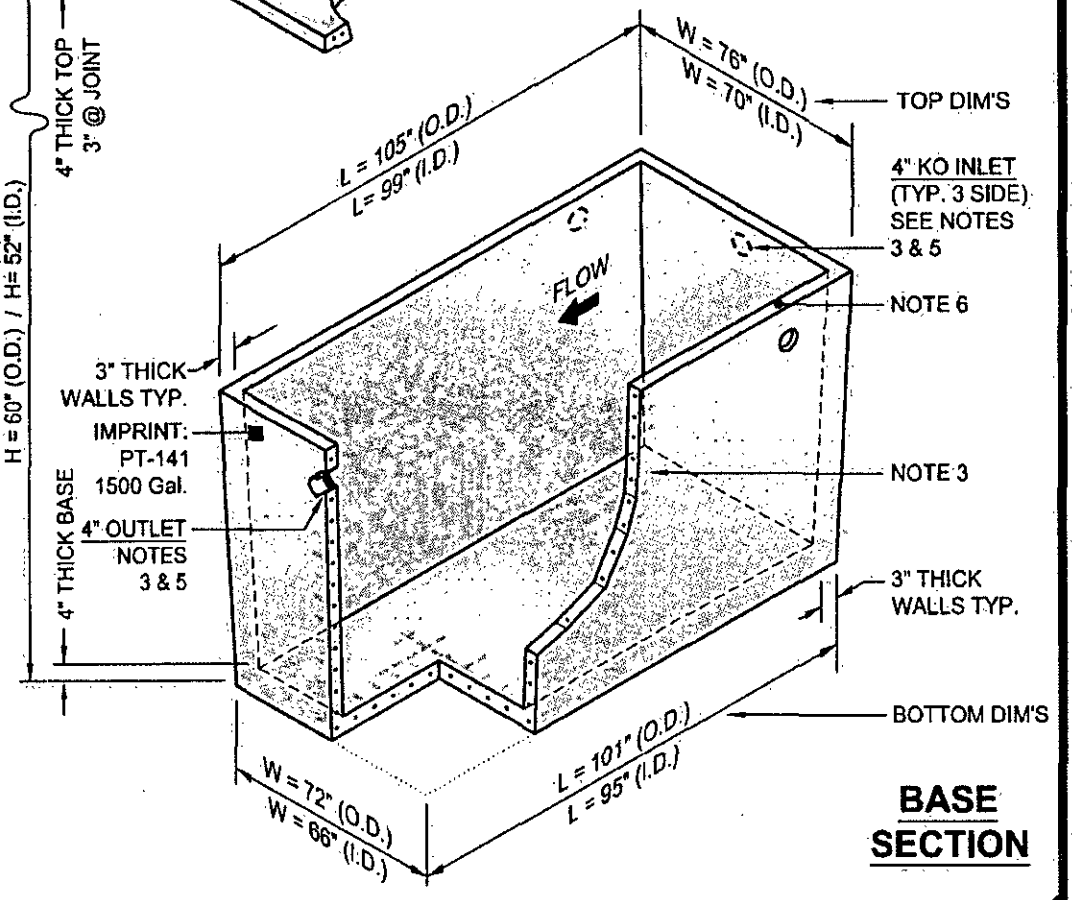


ELEVATION



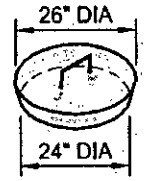


TOP SLAB



BASE SECTION

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DELLINGER PRECAST
4531 North Hwy 16 • Denver, N.C. 28037 • Phone: 800-948-1666 • 704-483-2868 • Fax: 704-483-2363

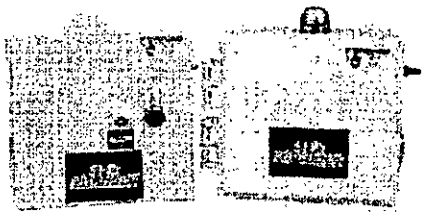
1,500 Gallon (Top Slab) PUMP TANK

Scale: Not To Scale
Revision Date: February 2008
Detail # PT-1,500-TS

MODEL 112 Control Panel

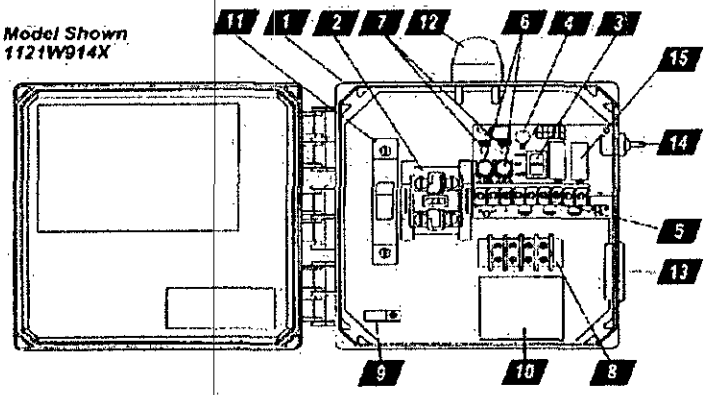
Single phase, simplex motor contactor control.

The Model 112 control panel provides a reliable means of controlling one 120, 208, or 240 VAC single-phase pump in pump chambers, sump pump basins, irrigation systems and lift stations. Two control switches activate a magnetic motor contactor to turn the pump on and off. If an alarm condition occurs, an additional alarm switch activates the audio/visual alarm system.



Indoor *Indoor/outdoor*

Model Shown
1121W914X



1. **Enclosure** measures 8 x 8 x 4 inches (20.32 X 20.32 X 10.16 cm). Choice of NEMA 1 (steel for indoor use), or NEMA 4X (ultraviolet stabilized thermoplastic with removable flanges for outdoor or indoor use).

   * Options selected may increase enclosure size and change component layout.

2. **Magnetic Motor Contactor** controls pump by switching hot electrical lines.
3. **HOA Switch** for manual pump control (mounted on circuit board).
4. **Green Pump Run Indicator Light** (mounted on circuit board).
5. **Float Switch Terminal Block** (mounted on circuit board).
6. **Alarm and Control Fuses** (mounted on circuit board).
7. **Alarm and Control Power Indicators** (mounted on circuit board).
8. **Pump Input Power and Pump Connection Terminal Block**
9. **Ground Lug**
10. **Terminal Block Installation Label**
11. **Circuit Breaker** (optional) provides pump disconnect and branch circuit protection.

STANDARD ALARM PACKAGE (other options available)

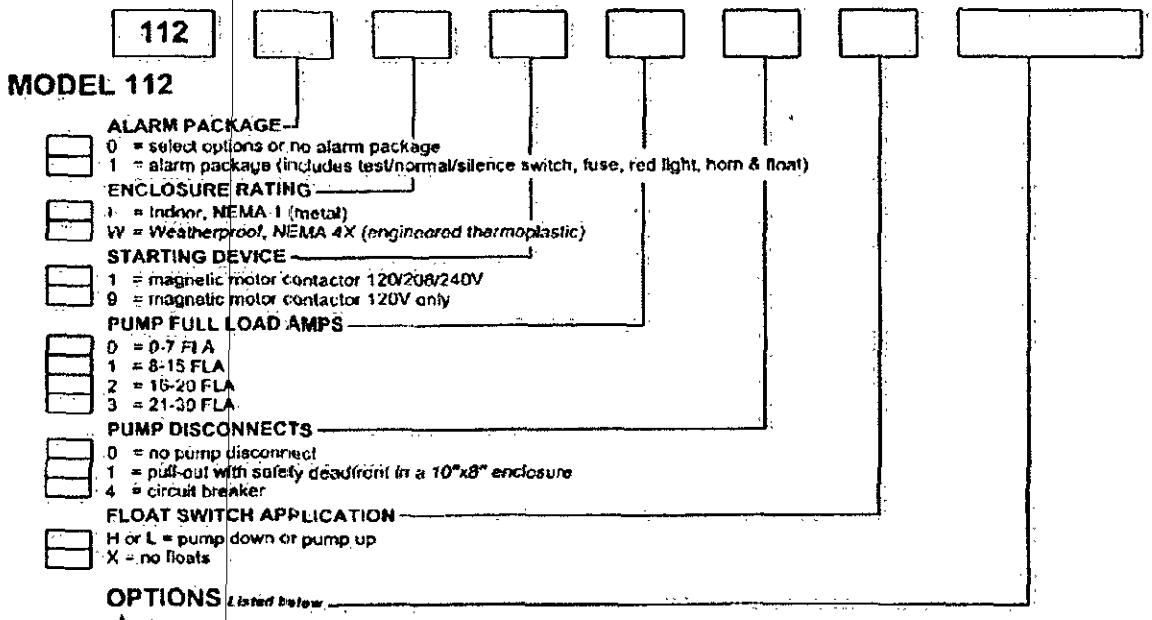
12. **Red Alarm Beacon** provides 360° visual check of alarm condition. **Note:** NEMA 1 style utilizes a door mounted indicator in lieu of a beacon.
13. **Alarm Horn** provides audio warning of alarm condition (83 to 85 decibel rating). **Note:** NEMA 1 style utilizes an internally mounted buzzer (83 to 85 decibel) in lieu of horn.
14. **Exterior Horn Test/Normal/Silence Switch** allows alarm horn to be silenced and testing of horn and light to ensure proper operation of alarm system.
15. **Horn Silence Relay** automatically resets alarm after alarm condition has been resolved (mounted on circuit board).

FEATURES

- Entire control system (panel and switches) is UL Listed to meet and/or exceed industry safety standards
- Dual safety certification for the United States and Canada
- Standard package includes three 20' Sensor Float® control switches
- Complete with step-by-step installation instructions
- Three-year limited warranty

c UL us
LISTED

SJE Rhombus CONTROLS
SJ ELECTRO SYSTEMS, INC.
PO Box 1708, Detroit Lakes, MN 56502
1-888-DIAL-SJE (1-218-847-1317
1-218-847-4617 Fax
email: sje@sjerhombus.com
www.sjerhombus.com



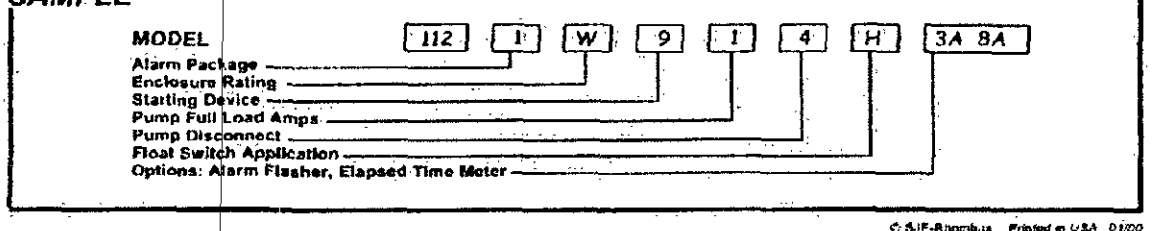
If additional features are required, call the factory for a quote on either a Pro-Line or Engineered Custom control panel system.

	CODE	DESCRIPTION
☐	1A	Red beacon only / no audio *must select 1E if floats included*
☐	1C	Horn only / no visual *must select 1E if floats included*
☐	1E	Alarm float
☐	3A	Alarm flasher
☐ ★	4A	Low level cutout *select option 4D if floats included*
☐ ★	4B	Red low-level indicator & alarm *must select 4A also*
☐	4D	Low-level float
☐	6A	Auxiliary alarm contact, form C type
☐ ★	8A	Elapsed time meter
☐ ★	8C	Event (cycle) counter
☐	10E	Lockable latch - NEMA 4X
☐	10E	Lockable latch - NEMA 1
☐ ★	10F	Lightning arrester
☐ ★	10K	Anti-condensation heater

	CODE	DESCRIPTION
☐	11C	NEMA 1 alarm panel *must select option 6A*
☐	11D	NEMA 4X alarm panel *must select option 6A*
☐	15A	Control / alarm circuit breaker *Does not include the circuit board as in standard.*
☐	16A	10' cord in lieu of 20'
☐	16B	15' cord in lieu of 20'
☐	16C	30' cord in lieu of 20'
☐	16D	40' cord in lieu of 20'
☐	17A	SJE SignalMaster® / mounting strap ●
☐	17B	SJE SignalMaster® / externally weighted ●
☐	17C	Sensor Float® / internally weighted ▲
☐	17D	Sensor Float® / externally weighted ▲
☐	17E	Sensor Float® Mini / pipe clamp ▲
☐	17F	Sensor Float® Mini / externally weighted ▲
☐	19X	Door mounted pump run indicator
☐	21A	Pumpmaster® in lieu of on/off switches ●
☐	21B	*PumpMaster® Plus* in lieu of on/off switches ●
☐	21C	Super Single® in lieu of on/off switches ▲
☐	21D	Double Float™ in lieu of on/off switches ▲

● Mechanically-activated ▲ Mercury-activated

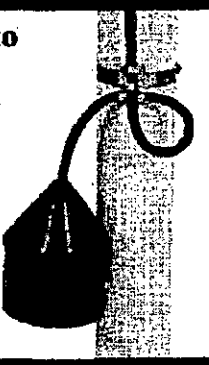
SAMPLE



© SJE-Rhombus Printed in USA 01/00

SENSOR FLOAT® control switch

Mercury-activated, narrow-angle float switch designed to activate pump control panels and alarms.



This narrow-angle sensing device is used to accurately monitor liquid levels in sewage and non-potable water applications. The Sensor Float® control switch is not sensitive to rotation and is suitable for use with intrinsically safe circuits. Contact SJE-Rhombus regarding specific intrinsically safe applications.

Normally Open Model (high level)
The control switch turns on (closes) when the float tips slightly above horizontal signaling a high level, and turns off (opens) when the float drops slightly below horizontal.

Normally Closed Model (low level)
The control switch turns on (closes) when the float drops slightly below horizontal signaling a low level, and turns off (opens) when the float tips slightly above horizontal.

FEATURES

- Suitable for use with intrinsically safe circuits.
- Not sensitive to rotation.
- Control differential of .5 inches (1 cm) above or below horizontal.
- UL Listed for use in non-potable water and sewage.
- CSA Certified.
- Three-year limited warranty.

LR54245 · US/LD 8342

Hydraulic

OPTIONS

This switch is available:

- for normally open (high level) applications or normally closed (low level) applications.
- in standard cable lengths of 10, 15, 20, or 30 feet and 3, 5, 6, or 10 meters.
- with three mounting options that allow for flexibility in installation:

  Mounting Clamp: for applications where the switch can be attached to a discharge pipe or similar mounting device.

  Internally Weighted: for applications where the switch can be suspended from above.

  Externally Weighted: for applications where the switch can be suspended from above.

SPECIFICATIONS

CABLE: *flexible 18 gauge, 2 conductor* (UL,CSA) SJOW, water-resistant (CPE) jacket

FLOAT: 3.38 inch diameter x 4.55 inch long (8.59 cm x 11.56 cm), high-impact, corrosion resistant, PVC housing for use in sewage and non-potable water up to 140°F (60°C)

MAXIMUM WATER DEPTH: 30 feet (9 meters), 13 psi

MERCURY TILT SWITCH: single pole, single throw, mercury-to-mercury contacts, hermetically sealed in a steel capsule and epoxy sealed in the float housing

ELECTRICAL: 5 amp, 120/230 VAC, 50/60 Hz

SJE Rhombus CONTROLS
SJ ELECTRO SYSTEMS, INC.
PO Box 1708, Detroit Lakes, MN 56502
1-888-DIAL-SJE | 1-218-847-1317
1-218-847-4617 Fax
email: sje@sjerhombus.com
www.sjerhombus.com

Sensor Float® control switch installation instructions

⚠WARNING ELECTRICAL SHOCK HAZARD
Disconnect power before installing or servicing this product. A qualified service person must install and service this product according to applicable electrical and plumbing codes.

⚠WARNING EXPLOSION OR FIRE HAZARD
Do not use this product with flammable liquids. Do not install in hazardous locations as defined by National Electrical Code, ANSI/NFPA 70.

Failure to follow these precautions could result in serious injury or death. Replace product immediately if switch cable becomes damaged or severed. Keep these instructions with warranty after installation. This product must be installed in accordance with National Electric Code, ANSI/NFPA 70 so as to prevent moisture from entering or accumulating within boxes, conduit bodies, fittings, float housing, or cable.

MOUNTING THE SWITCH

1. Place the cord into the clamp as shown in Figure B.
2. Locate clamp at desired activation level and secure the clamp to the discharge pipe as shown in Figures A and B. **Note:** Do not install cord under hose clamp.
3. Tighten the hose clamp using a screwdriver. *Over* tightening may result in damage to the plastic clamp. Make sure the float cable is not allowed to touch the excess hose clamp band during operation.
4. Bring cable leads back to control device and wire according to Figure C.
5. Check installation. Allow system to cycle to insure proper operation.

Note: All hose clamp components are made of 18-8 stainless steel material. See your SJE-Rhombus supplier for replacements.

Figure A

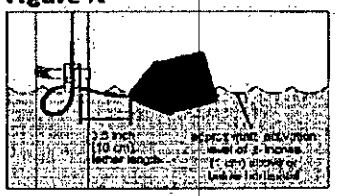
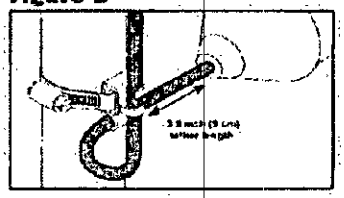


Figure B



INTERNAL WEIGHT

1. Determine desired activation level.
2. Suspend switch 7 inches (18 cm) below desired activation level as shown in Figure D. Switch remains partially submerged during the "on" tipping action. Switch can be totally submerged and still continue to operate *properly*.
3. Wire cable leads directly *into* control device as shown in Figure C.
4. Check installation. Allow system to cycle to insure proper operation.

Figure C - Wiring Diagram

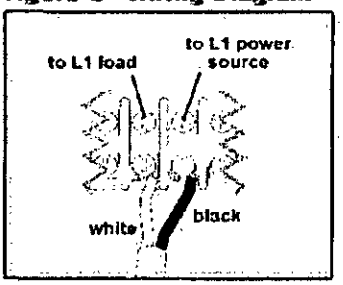
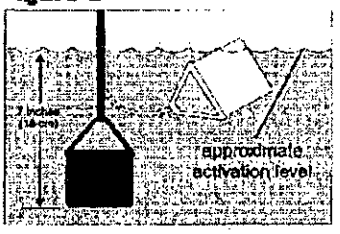


Figure D



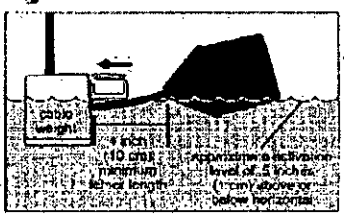
CABLE WEIGHT

1. Determine desired activation level.
2. Suspend switch and cable weight at desired activation level as shown in Figure E.
3. Wire cable leads directly into control device as shown in Figure C.
4. Check installation. Allow system to cycle to insure proper operation.

Cable weight is attached to switch cable at the factory. To adjust:

1. Release clip.
2. Adjust cable weight to desired position.
3. Lay switch cable in weight channel.
4. Align clip with weight channel and slide towards switch cable as shown in Figure E.
5. Snap clip snugly up to cable, moving clip to tightest possible position.

Figure E



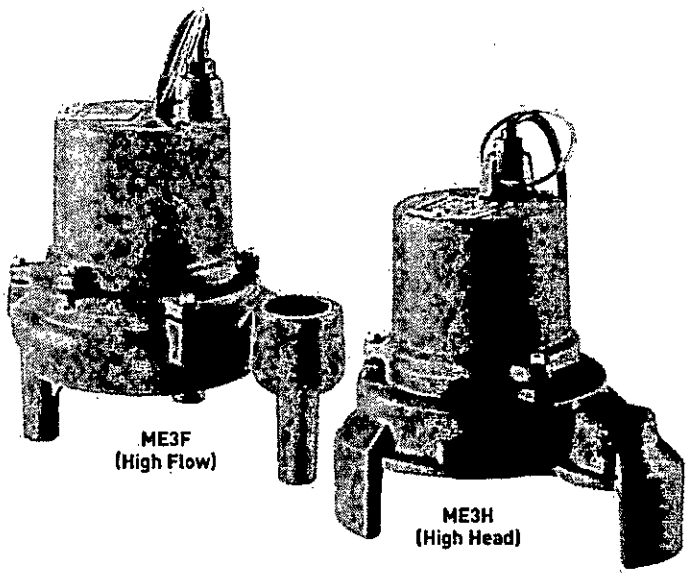
CONTROLS
SJE-Rhombus
SJ ELECTRO SYSTEMS, INC.
22650 County Highway 6 ■ P.O. Box 1708 ■ Detroit Lakes, Minnesota 56502 USA
1-888-DIAL-SJE (1-888-342-5753) ■ Phone: 218-847-1317 ■ Fax: 218-847-1617
E-mail: sje@sjerhombus.com

Inst. Instr. P/N 1009640A
Cal. Page P/N 1008/CBA

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Printed in USA 03/00

MYERS® ME3 SERIES

The Myers® ME3 series submersible effluent pumps are constructed of the most durable combination of materials to withstand the harshest environments. The ME3 is available with a recessed impeller for high-head applications or an enclosed impeller for high-flow installations. Available in tethered automatic piggyback models or manual models for use with external controls.



APPLICATIONS

Effluent removal, sump drainage, water transfer, flood control

SPECIFICATIONS

Capacities – ME3H: 36 GPM (136 LPM); ME3F: 66 GPM (249 LPM)
Shut-off Head – ME3H: 35' (10.7 m); ME3F: 31' (9.5 m)
Maximum Spherical Solids – 3/4" (19 mm)
Liquids Handling – Domestic effluent and drain water
Intermittent Liquid Temperature – Up to 140°F (60°C)
Motor/Electrical Data – 1/3 HP, 1550 RPM, shaded pole, oil-filled; 115V, 12A, 1Ø, 60Hz; 230V, 6A, 1Ø, 60Hz
Acceptable pH Range – 6-9
Specific Gravity – .9-1.1
Viscosity – 28-35 SSU
Discharge, NPT – 1-1/2" (50.8 mm)
Housing – Heavy cast iron
Minimum Sump Diameter – Simplex: 24" (61 cm) Duplex: 36" (91.4 cm)
Power Cord – 20', 16/3, SJTW

FEATURES

Two Powerful Pumps
High head (ME3H), High flow (ME3F)

Maximum Heat-handling
Durable, oil-filled motor for continuous bearing lubrication and maximum heat dissipation

Powerful Starts
High-torque, no starting switches or relays to wear out

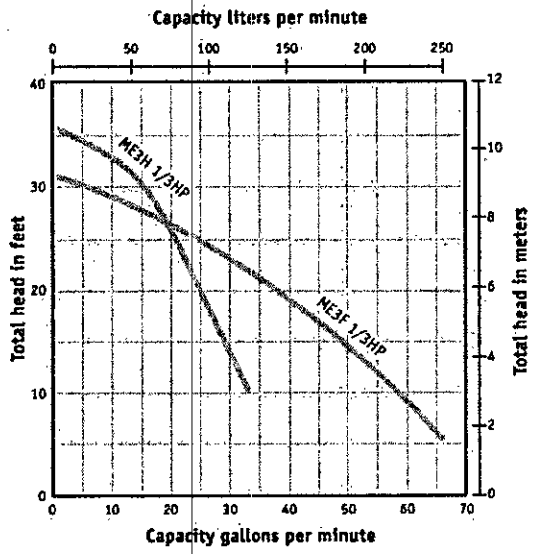
Thermal Protection
Heat sensor overload protection with automatic reset when motor cools to *a safe operating temperature*

Longer-lasting Motor
Lower ball bearing eliminates sleeve bearing wear and reduces motor wear

Manual Operation
Tethered automatic models can be operated manually by unplugging piggyback switch and plugging pump directly into outlet

MYERS® ME3 SERIES

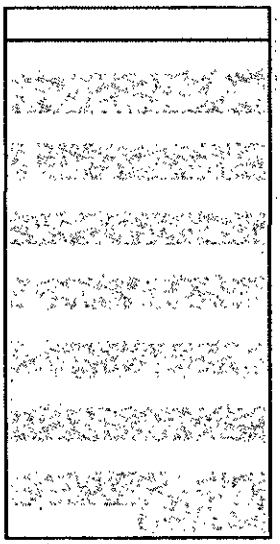
PUMP PERFORMANCE



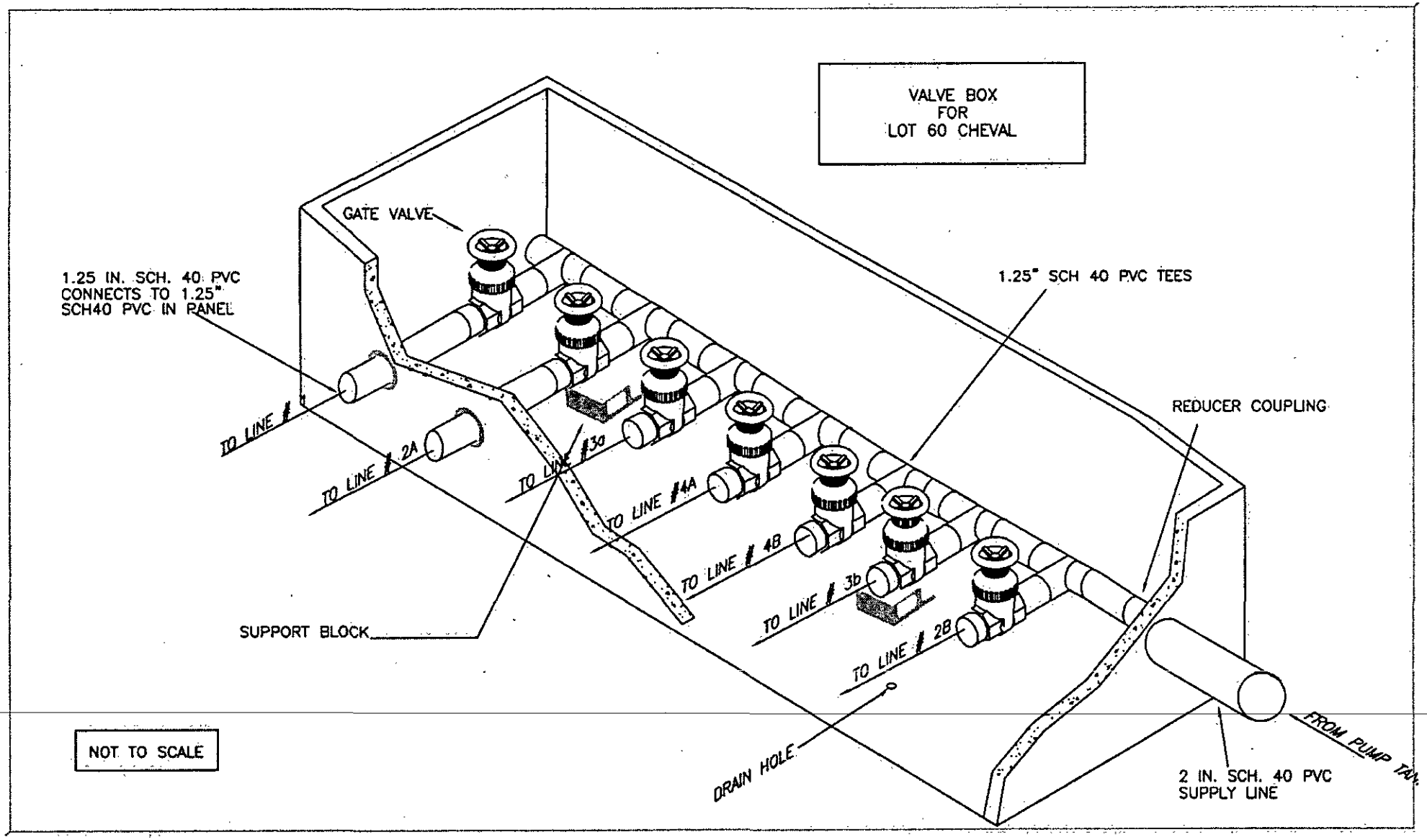
CALCULATIONS

Location	Cheval	
Project Number	14-1083	
Lot No:	60	
No. of Bedrooms	5	
Design Flow	600	$^{gal}/_{day}$
LTAR	0.275	$^{gal}/_{ft^2 day}$
Innovative? (YES OR NO)	NO	
Supply Line Length	65	ft.
Supply Line Volume	6.89	gal.
Required Feet of Line	364	ft.
Amount of Line from Layout	364	ft.
Gallons per Minute	33.21	$^{gal}/_{min}$
Required Septic Tank Capacity	1500	gal.
Minimum Standard Tank Size	1500 gal.	
Lateral Line Volume	237.692	gal.
Dosing Volume	292.00	gal.

Note: Dosing Volume=81 panels x 3.6g



Tank Draw Down	10.1	in.
		Generic Draw Down of 29 gal.per in.
Pump Run Time	8.79	minutes
Elevation Head	6	ft.
Pressure Head	2	ft.
Friction Factor	7	ft./100 ft. *(From the interpolater.)*
Friction Head	4.55	ft.
Lateral Friction	1.1	
Friction Head +15%	5.2325	ft.
Total Dynamic Head	14.33	ft.


VALVE BOX
FOR
LOT 60 CHEVAL
GATE VALVE
1.25 IN. SCH. 40 PVC
CONNECTS TO 1.25"
SCH40 PVC IN PANEL
1.25" SCH 40 PVC TEES
REDUCER COUPLING
TO LINE 1
TO LINE 2A
TO LINE 3a
TO LINE 4A
TO LINE 4B
TO LINE 3b
TO LINE 2B
SUPPORT BLOCK
DRAIN HOLE
FROM PUMP TANK
2 IN. SCH. 40 PVC
SUPPLY LINE
NOT TO SCALE

FEE: 200.00
DATE:2/16/2015

MECKLENBURG COUNTY
GROUNDWATER & WASTEWATER SERVICES

FILE NUMBER: 9066B

PERMIT NUMBER: 30007175

PARCEL NUMBER: 19507371

JOB LOCATION INFORMATION

ADDRESS: 3608 PIAFFE AVE

CITY: CHARLOTTE **STATE: NC** **ZIP:** 28227

ISSUED TO: New Old LLC

CONSTRUCTION AUTHORIZATION ISSUANCE DATE: 1/29/2015

CONSTRUCTION AUTHORIZATION CONDITIONS

1. WASTEWATER SYSTEM CONSTRUCTION AND INSTALLATION MUST MEET ALL CONDITIONS AND SPECIFICATIONS AS SET FORTH IN IMPROVEMENT PERMIT NUMBER 30007175, AND THE ATTACHED SITE PLAN WITH SYSTEM DETAILS. CONSTRUCTION AND INSTALLATION MUST ALSO MEET ALL REQUIREMENTS SET FORTH IN THE RULES GOVERNING SANITARY SEWAGE COLLECTION, TREATMENT, AND DISPOSAL AND ANY OTHER APPLICABLE RULES AND LAWS.

2. AN INSTALLATION APPROVAL MUST BE SECURED PRIOR TO INSTALLATION OF THE SEPTIC TANK SYSTEM. THE INSTALLER OF THE SYSTEM SHALL BE A REGISTERED SEPTIC TANK CONTRACTOR WITH THE MECKLENBURG COUNTY HEALTH DEPARTMENT.

3. ANY ALTERATION IN SITE OR SOIL CONDITIONS (INCLUDING LOCATION OF STRUCTURES AND APPURTENANCES) OR MODIFICATION IN USE, DESIGN WASTEWATER FLOW, OR WASTEWATER CHARACTERISTICS AS SPECIFIED IN THE ASSOCIATED IMPROVEMENT PERMIT AND APPLICATION, MAY SUBJECT THIS CONSTRUCTION AUTHORIZATION AND ASSOCIATED PERMIT(S) TO REVOCATION.

4. THIS CONSTRUCTION AUTHORIZATION AS PROVIDED IN G.S. 130A-335(f) AND G.S. 130A-336(b) SHALL BE VALID FOR A PERIOD EQUAL TO THE VALIDITY OF THE IMPROVEMENT PERMIT, NOT TO EXCEED 60 MONTHS.
   *CONSTRUCTION AUTHORIZATION EXPIRATION DATE: 1/29/2020

SOIL & FORESTRY SERVICES
OF THE CAROLINAS, PA

www.soilandforestryservices.com

Mecklenburg County Groundwater and Wastewater Services
Attn: Brad Hallman
700 N. Tryon Street, Suite 211
Charlotte, NC 28202

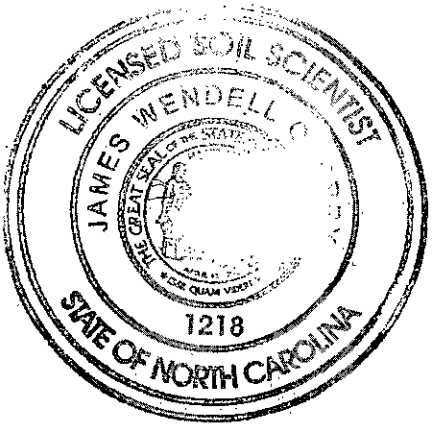
Re: Lot 60 Cheval

Dear Mr. Hallman,

We have reviewed the 5-bedroom LPP panel block system install at Lot 60 of Cheval. The install was performed by Stevens Septic Service. The installation was different from our design in that 3' wide trenches on 9' centers were installed. As installed the supply line was routed below the field due to limited space between the house and top trench. In summary the installation was performed satisfactorily with our design.

Sincerely,

Wendell Overby
NC Licensed Soil Scientist
NC Registered Forester



Mecklenburg County Groundwater & Wastewater Services
700 N. Tryon St., Suite 211 Charlotte, NC 28202
Phone: (704) 336-5103 Fax: (704) 336-6894

Septic System Pre-Construction Meeting Checklist

File # 90663 App # 7175 Tax Parcel # 195-073-71

Property Owner: New Old, LLC

Job Location Address: 3608 Piaffe Ave

City: Mint Hill State: NC Zip Code: 28227

1. Does System design match facility, flow & wastewater characteristics?

   ☑ YES ☐ NO

   Comments: _____

2. Is there sufficient available space for the septic systems initial and repair areas?

   ☑ YES ☐ NO

   Comments: _____

3. Can the septic system be installed per the permit conditions and drawing on file?

   ☑ YES ☐ NO

   Comments: _____

* If "NO" is checked for any of the above the existing permit may need to be revoked.

Permission is hereby given to ☑ install ☐ alter ☐ repair an on-site wastewater treatment & and disposal system, with subsurface soil absorption and effluent discharge meeting all of the construction requirements of 15A NCAC 18A .1900 which are in effect on the date of granting this approval. **System shall not be installed while soils are in wet condition.**

Bradley W. Hallman
Authorized Agent

6/18/15
Date

Chris Stevens
Others Present

Mecklenburg County Groundwater & Wastewater Services
700 N. Tryon St., Suite 211 Charlotte, NC 28202
Phone: (704) 336-5103 Fax: (704) 336-6894

NC DHHS
Division of Environmental Health
On-Site Wastewater Section

OPERATION PERMIT for an ON-SITE WASTEWATER TREATMENT & DISPOSAL SYSTEM

File #: 7175 Permit #: 9066 B Tax Parcel #: 195-073-71

Property Owner: New Old LLC

Job Location Address: 3608 Piaffe Ave

City: Mint Hill State: NC Zip Code: 28227

Operation Permit Issuance Date: 6/24/15 Contractor Name: Stevens Septic

Permitted Design Flow: 600 GPD Liquid Capacity of Dosing Tank: 1500 gallons

Liquid Capacity of Septic Tank: 1500 gallons Manufacture Dellinger Effluent Pump Model: Liberty 280 1/2hp

Drainfield Installation ☐ N/A

Trench Depth: 36 inches

Trench Width: 3 feet

Line Spacing: 9 feet (O.C.)

Total line length: 364 feet

# of Lines: 7 @ various feet lengths

Depth of Media: N/A inches (Type) IVa PPBPS

Depth of Cover: 12"+ inches

Distribution Device: Manifold LPP Dist.

Bed Installation *(For Repair Installations ONLY.)* ☒ N/A

Bed Depth: _____ inches

Bed Width: _____ feet

Total line length: _____ feet

# of Lines: _____ @ _____ feet

Depth of Media: _____ inches (Type) _____

Depth of Cover: _____ inches

Distribution Device: _____

Water Supply Source

☒ Municipal ☐ Private Well ☐ Community Well

☐ Other _____

System Installation Setbacks

Distance from Building Foundation: 9' feet

Distance from Property Line: 12" feet

Distance from Water Supply Source: Public Water feet

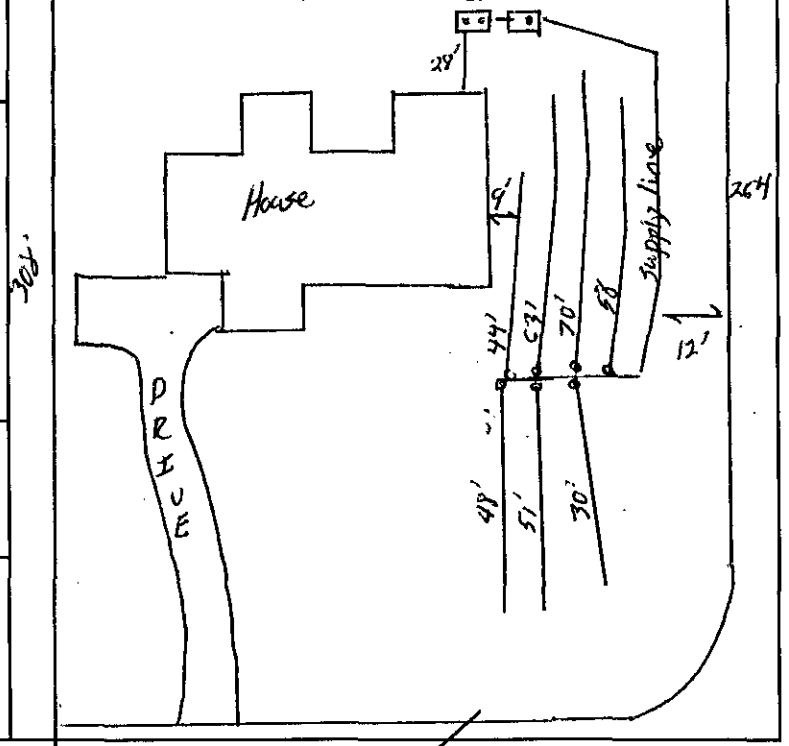
Inspection Dates STB-444 6/11/15 PT 477 4/15/15

Tank(s) Inspected: 6/23/15

Excavation Inspected: Drip Repair Area 6/23/15

Pump & Controls Inspected: 6/23/15

SKETCH OF SYSTEM INSTALLATION
(As-Built Drawing)



The undersigned has inspected the Septic Tank System described above, and certifies it has been ☒ installed ☐ altered ☐ repaired ☒ as detailed in the plot above ☐ in accordance with the permit issued and meets the provisions of 15A NCAC 18A. 1900, "Laws and Rules for Sewage Treatment and Disposal Systems" in effect on the date of issuance of the permit. The issuance of this Operation Permit does not in any way guarantee that the system will operate properly or relieve any person now or hereafter owning, controlling, or using such system from any liability resulting from the failure of the system to operate properly. This document is issued subject to those restrictions and conditions shown on the permit(s) and the provisions of 15A NCAC 18A. 1900 in addition to those listed below under "Comments." This document shall be null and void if any information contained in the application is untrue or if any additions are made to the property which would increase the requirements for said system.

Notice: Disturbance of the designated repair area may result in the Suspension or Revocation of this permit.

Comments: System Classification & Type: IVa PPBPS / P / NA / NA

Draw Down 130 gpm @ 3 min (43.3 gpm)

DENR Authorized Agent: Bradley W. Hallman Signature: _____

Mecklenburg County Groundwater & Wastewater Services
700 N. Tryon St., Suite 211 Charlotte, NC 28202
Phone: (704) 336-5103 Fax: (704) 336-6894

NC DENR
Division of Environmental Health
On-Site Wastewater Section

OPERATION PERMIT for an ON-SITE WASTEWATER TREATMENT & DISPOSAL SYSTEM

9066B

File #: ~~7175~~ Permit #: 7175 Tax Parcel #: 195-073-71

Property Owner: New Old LLC

Job Location Address: 3608 Piaffe Ave

City: Mint Hill State: NC Zip Code: 28227

OPERATION PERMIT CONDITIONS:

I. Performance: System shall perform in accordance with 15A NCAC 18A .1961.

II. Monitoring: System shall be monitored as required by 15A NCAC 18A .1961.

III. Maintenance: Ground absorption sewage treatment and disposal systems shall be checked, and the contents of the septic tank removed, periodically from all compartments, to ensure proper operation of the system. The contents shall be pumped whenever the solids level is found to be more than 1/3 of the liquid depth in any compartment.

IV. Operation: System shall be operated in accordance with 15A NCAC 18A .1961.

System Classification: IIIa

*Operation Permits for Type V and VI systems expire five (5) years from the date of issuance (in accordance with Table V(a)). The system owner must contact GWS six (6) months prior to expiration for permit renewal.

Subsurface system operator required: Yes ☒ No ☐

☐ This type of system requires the system owner to maintain a contract with a certified operator to perform system inspection, maintenance, and reporting as required in 15A NCAC 18A .1961. and Table V(a). The system owner is responsible for all fees associated with these services.

☐ System does not require inspection by GWS on a routine frequency.

☐ System requires inspection by GWS once every five (5) years. The system owner is responsible for all fees associated with the inspection.

☒ System requires inspection by GWS once every three (3) years. The system owner is responsible for all fees associated with the inspection.

☐ System requires inspection by GWS once every twelve (12) months. The system owner is responsible for all fees associated with the inspection.

☐ System requires inspection by GWS once every six (6) months. The system owner is responsible for all fees associated with the inspection.

V. Other:

DENR Authorized Agent: Bradley W. Hallman Date: 6/24/15

Signature:

STEVENS

SEPTIC SERVICE

CONTRACT

3317 New Salem Rd.
Monroe N.C. 28110

Work # (704) 289-7637

Cell#(704) 201- 9849

E-mail Address
Stevenstruckin@aol.com

Terry Stevens

Chris Stevens

STEVENS TRUCKING
& SEPTIC TANK SERVICE

MONITORING & INSPECTION PLAN

1. COSTS: INITIAL CONTRACT YEAR: $ 150 (* 2 required inspections)
   $_____ (required labs)
   $ 300 Total Initial Year

   RENEWAL YEARS: $_____ (*one required inspections)
   $_____ (required labs)
   $_____ Total Renewal Year

A. The above cost will be paid at the time the sum of the first year. Contract is entered for the whole. The Owner shall pay to the ORC the aforementioned sums for each parcel listed above. Annual billings will be made thereafter and payable within 30 days of billing. The annual billings will be made on the anniversary dates. The annual renewal fees may increase no more than 10% per year. The Owner shall pay to the ORC his normal and customary fees for any authorized work performed on the System as a result of nonscheduled service or maintenance calls. These fees are due and payable within 30 days if billing. Payments due to the ORC and unpaid by the Owner after 30 days shall be assesses be late payment fee of $25.00 per month for every month thereafter.

2. PERFORMANCE DUTIES:

- Inspections and services that meet state requirements, i.e., inspections of System using an itemized check list, monitoring "septic tanks" to insure proper operation, and make adjustments of imbalances to systems through the distribution devices.
- Inspections and required lab work performed as per Attachment
- Inspection report copies are sent to the environmental regulatory agency (if applicable) and homeowner
- New Homeowner Package (educational material about their septic system) is provided
- The Owner will be advised of any repairs needed and estimated cost or repairs. Repairs will not be made without Owner authorization.
- The Owner will be advised when pumping is recommended
- To inspect system twice a year
- Inspection of the septic tank for influent and effluent line blockage, tank leakage, and level of solids accumulation on the discharge side.
- Inspection of the pump tank, including visual inspection of the unit and testing of the units pump, float switches, and control panel operations.
- The system shall be manually operated for a complete cycle to verify operation.
- Visual inspection of the area while under a normal dosing cycle, to check for seepage, unusual ground saturation, broken or damaged lines, and pipes. The field shall also be checked for any areas of erosion, proper vegetation cover, protection from traffic, and diversion of surface water.
- Check and set head pressures and flush lines if needed.

STATE OF NORTH CAROLINA
COUNTY OF Mecklenburg

STEVENS TRUCKING
& SEPTIC TANK SERVICE CONTRACT

This Contract is entered into this 23 day of June, 2015 by and between Stevens Septic, a North Carolina Corporation/Company of Union County, North Carolina (hereinafter the "ORC" or Operator in Responsible Charge) and Troy Lodeman New old Home (hereinafter "The Owner").

Property Address 3608 Piaffe Ave. Mint Hill
Lot 60 Chaval

Preamble

The ORC is contracting with The Owner to provide inspection services as described on Page 1 for the fees or charges also shown in Page 1.

The Owner owns or controls the property upon which a ground absorption sewage treatment system ("System") is installed, such System being designated as a type II, III, IV or V system under the Rules for Sanitary Sewage Collection. Treatment and Disposal found at 15A N.C. Admin. Code 18A. 1900 et seq.; and 15A N.C. Admin. Code 18A. 1961 requires that a condition of the Operation Permit for Type IV & V systems be that a properly executed inspection contract between the System Owner and a management entity shall be in effect for as long as the System is in use. The ORC is a management entity which employs certified operators of a type authorized by 15A N.C. Admin. Code 18a. 1961 to manage and inspect type II, III, IV, and V systems.

In consideration of the premises and of the mutual covenants and promises contained in this Agreement, it is hereby agreed by and between the Owner and the ORC as stipulated below.

Conditions of the Contract

A. The ORC, in consideration of the payment by the Owner as set out in the schedule of services and charges in Attachment A, incorporated herein, agrees:

1) To provide the services set out in Page 1 according to the minimum schedule of inspections/services required by regulations for the lots or parcels set above.

2) To report results of the inspections to the local environmental regulatory agency having jurisdiction as required by applicable laws or regulations.

3) If inspections indicated the need for System repairs:

a) To notify the local environmental regulatory agency within 48 hours.
b) To give notice to the "Owner" of needed repairs, and if the necessary repairs are outside the scope of the routine maintenance described in Page 1 then The Owner may request the ORC to provide an estimate. At the authorization of The Owner the ORC will perform the necessary repairs at the ORC's then-prevailing charges for services and materials.

4) If the ORC's services are terminated, the ORC will notify the local environmental regulatory agency within 48 hours.

B. The Owner, in consideration of the services performed, agrees:

1) To pay the ORC for its services according to the schedule of charges as set out in Page 1.

2) Within 30 days of receipt of notice of repairs under A (3) above, the Owner(s) must provide proof that repairs have been performed by a licensed or qualified entity and the System is functioning properly or request and authorize the ORC to complete the needed repairs.

3) To notify the ORC promptly of any emergency or malfunction known to it which may violate environmental, health, or other laws and regulations, and to authorize immediate repair as necessary to restore the System to proper function and operation.

4) To use reasonable efforts to provide and to maintain at all times, such access to the System as is reasonably necessary for the ORC to comply with its obligations under this Agreement.

C. **Terms of the Agreement**

1) This Agreement shall be effective for one year from the date of this contract, and will be automatically renewed from year-to-year thereafter, unless written notice of termination and non-renewal is given to the party not less than 60 days prior to the end of the then current annual contract year.

2) The real property to be serviced under this contract is listed on Page 2.

3) This Agreement automatically terminates if the Operation Permit for the system is revoked and all appeals of the revocation are exhausted or time for making an appeal has passed.

4) The parties may terminate at the end of the then current term by consent of each party or by not less than 60 days written notice to the party prior to the end of the then current contract year, and not less than 30 days written notice to the local environmental regulatory agency.

5) This Agreement may be terminated for cause for breach which remains unremedied after 15 days written notice to the defaulting party.

D. Limited Warranty

THE ORC'S SOLE DUTIES AND RESPONSIBILITIES UNDER THIS AGREEMENT IS TO PROVIDE INSPECTION AND ROUTINE MAINTENANCE ONLY AS SPECIFIED IN THIS AGREEMENT. INSPECTIONS WILL COMPLY WITH APPLICABLE CODES. LAWS. AND REGULATIONS IN FORCE AT THE TIME OF THE INSPECTION AND REPORT. WORK AND MATERIALS USED IN REPAIRS ARE WARRANTED ONLY TO BE OF GOOD WORKMANSHIP. FREE OF DEFECTS. AND CONFORM TO THE SYSTEMS SPECIFICATIONS AND EQUALS TO THE ORIGINAL PARTS AND EQUIPMENT. THE OWNER'S SOLE REMEDY UNDER THIS EXPRESS WARRANTY IS REPAIR OR REPLACEMENT AND CONSEQUENTIAL DAMAGE OR DAMAGES FOR DELAY ARE LIMITED TO TOTAL SUMS PAID THE ORC UNDER THIS AGREEMENT FOR THE PARTICULAR LOT OR PARCEL FOR THE THEN CURRENT YEAR. ALL OTHER WARRANTIES. EXPRESS OR IMPLIED, INCLUDING MERCHANTABILITY OR FITNESS FOR PARTICULAR PURPOSE, ARE EXPRESLY AND SPECIFICALLY EXCLUDED. REPAIRS, REPLACEMENTS.ADDITIONS AND CHANGES BY OTHERS TO THE SYSTEMS COVERED BY THIS AGREEMENT WITHOUT PRIOR NOTICE TO THE ORC OR ACCEPTANCE OF THE WORK BY THE ORC DURING THE TERM OF THIS AGREEMENT VOIDS ANY WARRANTY GRANTED HEREIN AS TO THE ORC.

E. Miscellaneous

1) Transfer of rights. responsibilities, and duties under this Agreement by any party shall be valid only on written notice and consent signed by all parties, which consent shall not be unreasonably or arbitrarily withheld.

2) The ORC may perform its duties and responsibilities by subcontract but the ORC will remain directly liable and responsible to the Owner under the terms of this Agreement.

3) Waiver of default or a breach of the Agreement by any party shall not operate nor be construed as a waiver of further or subsequent defaults or breach of this Agreement. Failure to take action in any default or breach does not bear action on such default at any time subsequent to such breach or default.

4) This agreement constitutes the entire agreement of the parties, incorporating, and superseding all prior representations and negotiation and may not be changed or amended except in writing signed by the parties. The Agreement shall be interpreted under North Carolina law. Any part of the Agreement declared void, illegal, or unenforceable will not affect other provisions of the Agreement.

5) Disputes arising under this Agreement shall be determined by any method of Alternative Dispute Resolution the parties choose. including but not limited to. mediation or arbitration. under the Uniform Arbitration Act of North Carolina or its equivalent. or such means or methods as the parties agree to in writing.

Items not covered by this contract include the following:

A. The repair or replacement of any system component after expiration of the stated warranty.
B. Removal of obstructions in sewer pipes, supply , and LPP Laterals.
C. Repair or replacement of any system piping.
D. Repair of replacement of pumps, floats, and control panel components.
E. Laboratory Analysis of effluent samples as required by the State after the first year.
F. Other special requests by the homeowner.

Each party has executed this Agreement with full power, authority, and legal right to enter into; to bind itself to the rights, duties and responsibilities under this Agreement, which is binding on the parties, their successors and assigns, heirs and personal representatives, on the date first above written.

ATTEST:

_____

OWNER:

X _____

ATTEST:

_____

Company Name

By: Stevens Sophi

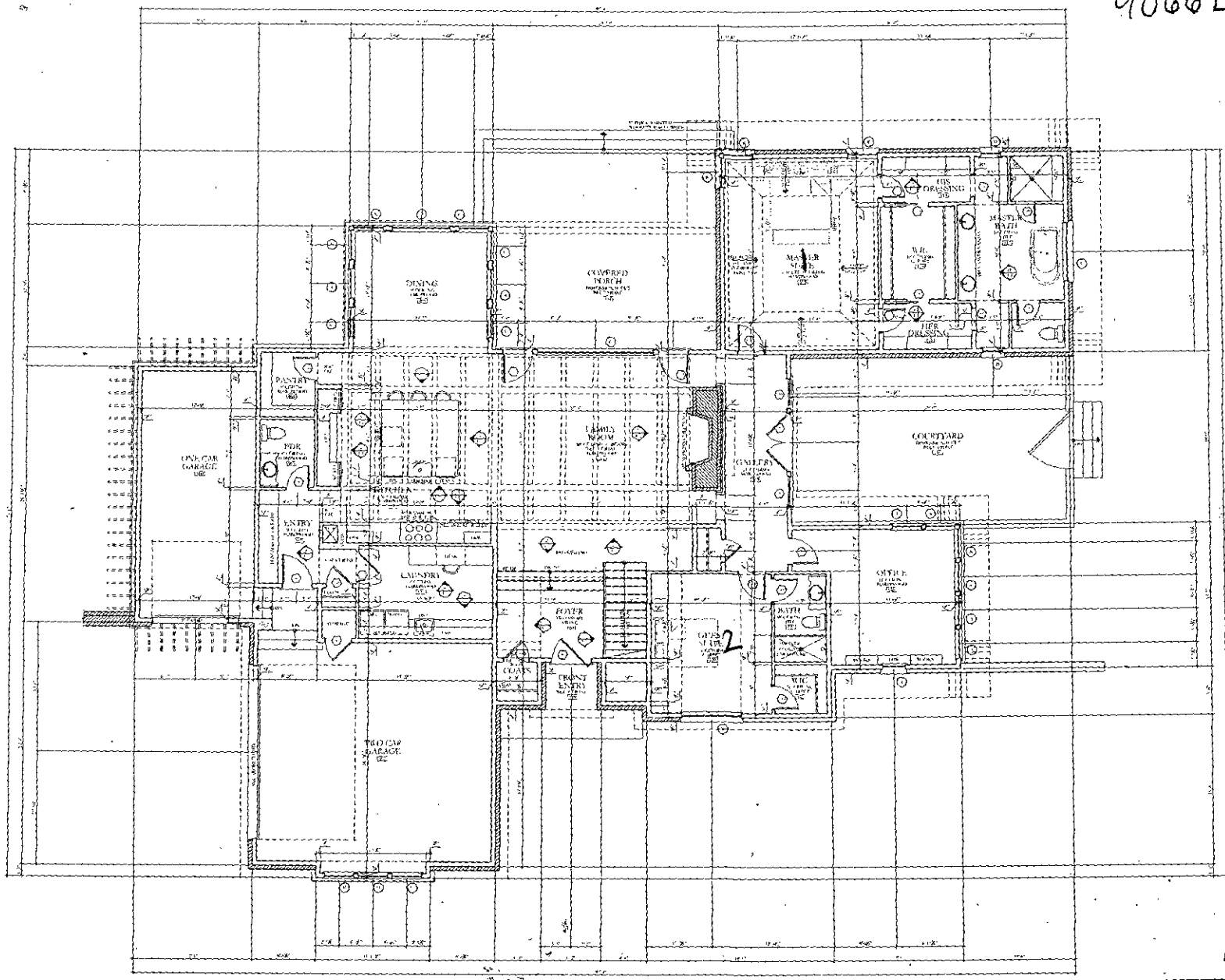
Title: _____

License numbers: 996735

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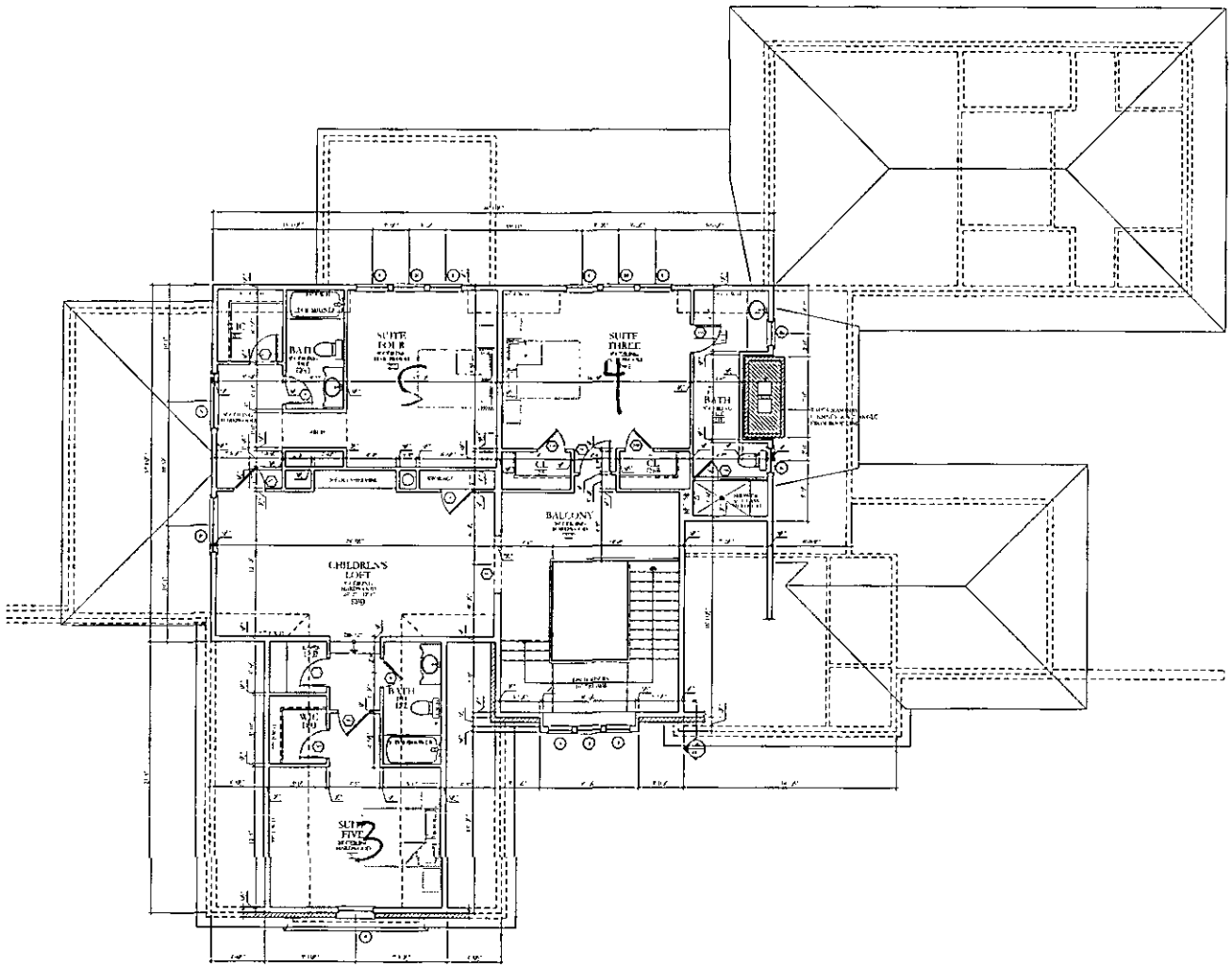
3608 Piaffe Ave.
9066B



SQUARE FOOTAGE

Main Level Floor	3,199 Sq.Ft.
Upper Level Floor	1,756 Sq.Ft.
Total Heated	4,955 Sq.Ft.
Garages	966 Sq.Ft.
Covered Rear Porch	298 Sq.Ft.
Covered Entry	57 Sq.Ft.
Total Unheated	1,321 Sq.Ft.
Uncovered Front Entry	34 Sq.Ft.
Uncovered Courtyard	532 Sq.Ft.
Uncovered Rear Porch	130 Sq.Ft.
Grand Total	6,972 Sq.Ft.

NOTICE TO BUILDER



SQUARE FOOTAGE

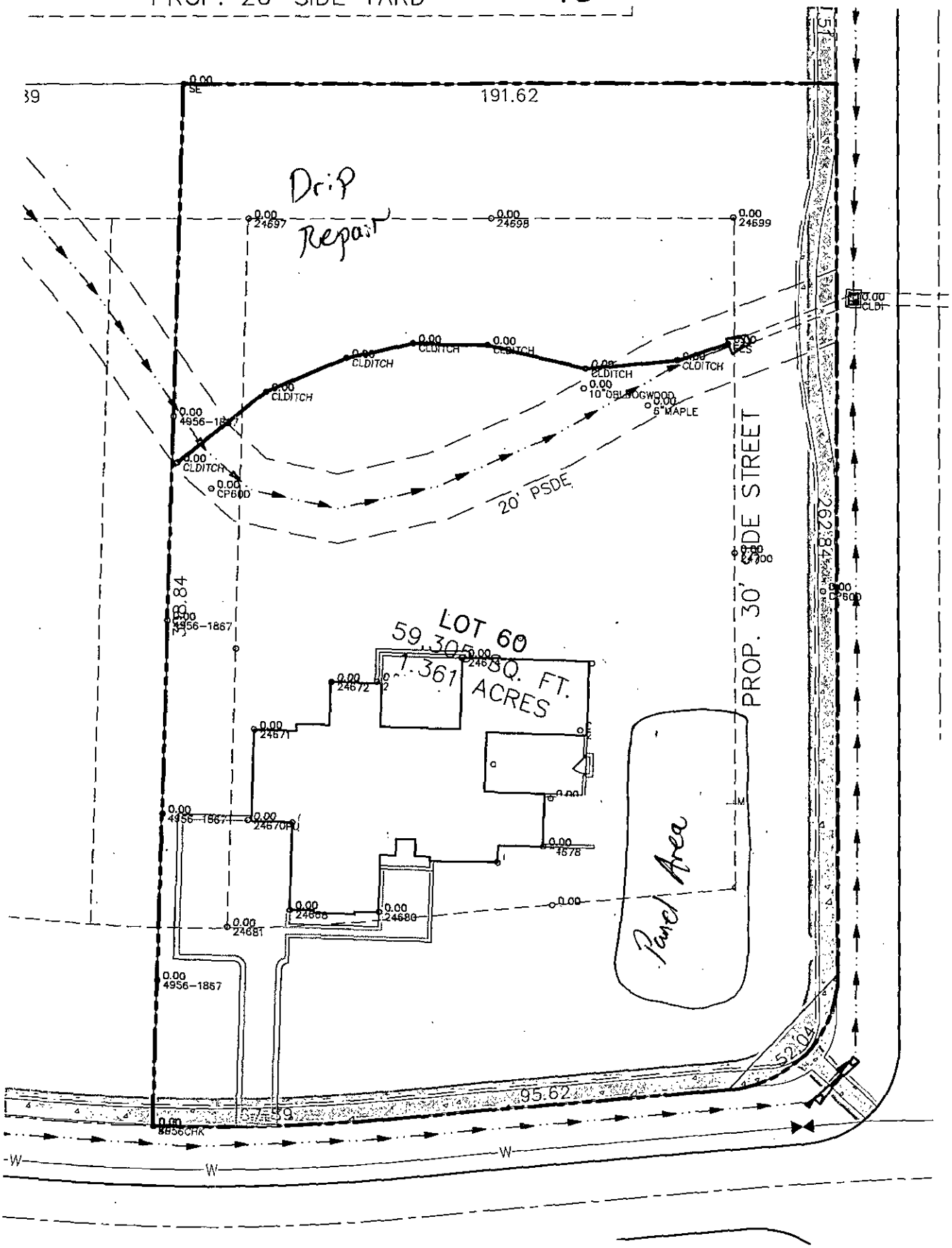
Main Level Heated	3,149 Sq.Ft.
Upper Level Heated	3,730 Sq.Ft.
Total Heated	6,879 Sq.Ft.
Garages	1,015 Sq.Ft.
Covered Rear Porch	299 Sq.Ft.
Covered Entry	26 Sq.Ft.
Total Under Roof	8,223 Sq.Ft.
Uncovered Front Porch	44 Sq.Ft.
Uncovered Courtyard	587 Sq.Ft.
Uncovered Rear Porch	186 Sq.Ft.
Grand Total	8,970 Sq.Ft.

JIM PEARCE COLLECTION, LLC

HOME-RAMA 2013
Lot 66, Cheval
Bank Inc
new old

A-2
UPPER LEVEL
FLOOR PLAN

NOTICE TO BUILDER


1"=40'
PROP. 20' SIDE YARD
191.62
Drip
Repair
20' PSDE
PROP. 30' SIDE STREET
LOT 60
59,305 SQ. FT.
1.361 ACRES
Paved Area
95.62
CLDITCH
CPBOO
10" OSLBOGWOOD
6" MAPLE
4956-1867
4956-1867CHK