Permitted Design



MICHAEL ATHANAS & ASSOCIATES
LICENSED SOIL SCIENTIST
1999 CANDLEWICK DRIVE
FORT MILL, S.C. 29715
803-802-4403 (office)
803-802-4402 (fax)

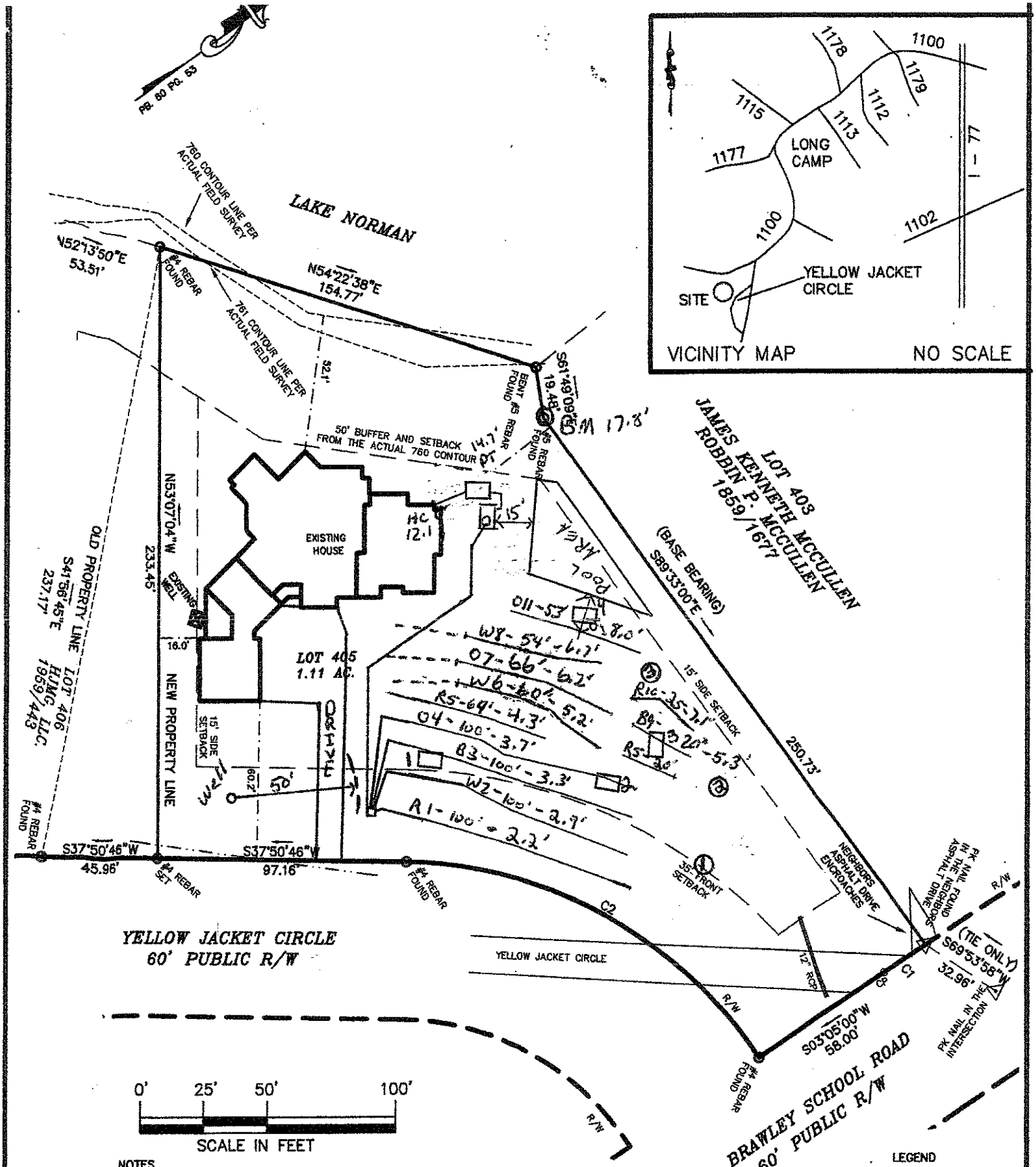
Reference: Data Sheet for 112 Yellow Jacket Cir., CL&T Sec. 6, Lot 405
House Footprint: See attached
Building Setbacks: 35' front, 15' side, 50' lake
Water Source: Private well
Number of Bedrooms: 4/480 GPD
Predetermined LTAR: 0.3 GPD/FT2 (ICHD)
Proposed System Type: 25% Reduction
Proposed Repair System Type: LP Existing conventional/PPBPS
Distribution: Pressure Manifold
Flow per Tap: 4 @ 7.11 GPM
Tap Size & Material: ½" SCH 40
System Flow: 28.4 GPM
Dosing Volume: 175 gallons
Pump Run Time: 6.2 minutes
Elevation Head: 17.5'
Friction Head: 2.6'
Pressure Head: 2'
Total Dynamic Head: 22.1'
Supply Line Length: 140'
Septic/Pump Tank Size: 1000/1000 gallons
Proposed Trench Bottom: 36"

Line	Design Length	Actual Length	Elevation
Red 1	**100'**	**100'**	**2.2'**
White 2	**100'**	**100'**	**2.9'**
Blue 3	**100'**	**100'**	**3.3'**
Orange 4	**100'**	**100'**	**3.7'**
Red 5		64'/20'	4.3'
White 6 (existing)		60'	5.2'
Orange 7 (existing)		66'	6.2'
White 8 (existing)		54'	6.7'
Blue 9		20'	5.3'
Red 10		25'	7.1'

Line	Design Length	Actual Length	Elevation
Orange 11		53'	8.0'

Initial System: 400' **Repair System:** 180' (conventional)/182' (PPBPS)
Pump Tank: 14.7' **House Corner:** 12.1' **Benchmark:** 17.8'

Comments:
Currently this lot is approved for a four bedroom residence. The current owner wants to have the existing permit adjusted. M A & Associates is proposing to utilize the current existing system for a portion of the repair. The existing system is 180' of conventional line. This leaves 353' of conventional line left or 177' of PPBPS for the repair system. The previous permit called for the removal of the fill. Michael Athanas & Associates propose to install the system below the fill and leave the fill on site. M A & Associates has perform addition soil observations to confirm LTAR and fill depth. At the time of repair, the existing lines will need to be cut off and dammed where they are encroaching on the setbacks to the basement and other proposed repair lines. Positive drainage should be maintained 10' from the house.



NOTES

1) THIS PROPERTY MAY BE SUBJECT TO ANY EASEMENT AND/OR RIGHTS-OF-WAY OF RECORD.
2) AREA COMPUTED BY THE COORDINATE METHOD.
3) EXISTING 760' & 761' CONTOUR ELEVATION BASED ON LAKE NORMAN LAKE LEVEL AT COWAN'S FORD DAM (READING ON 7/27/12) ELEVATION: 757.60'

LEGEND

P.P. = POWER POLE
= DUKE POWER TRANS.
E.I.P. = EXISTING IRON FOUND
I.P.S. = #4 REBAR SET
R/W = RIGHT-OF-WAY
W = WELL
BH = BORE HOLE

SEPTIC LAYOUT SURVEY

OF

112 YELLOW JACKET CIRCLE

LOT 405 CRESCENT LAND & TIMBER CORP, SECT. 6

SCALE 1" = 50'

DAVIDSON TWSP., IREDELL CO., N.C.

ACQUIRED BY: KENNETH & SUSAN KOONTZ

FIELD BOOK:
FILE: CRESCENT LOT 405
DC FILE:
TAX MAP NO: 4624257514

DEPARTMENT OF ENVIRONMENT AND NATURAL RESOURCES
DIVISION OF ENVIRONMENTAL HEALTH
ON-SITE WASTEWATER SECTION

Sheet ____ *of* ____
PROPERTY ID #: _____
COUNTY: _____

SOIL/SITE EVALUATION
for ON-SITE WASTEWATER SYSTEM

OWNER: _____ APPLICATION DATE_____
ADDRESS: _____ DATE EVALUATED: _____
PROPOSED FACILITY: _4 bdrm_____ PROPOSED DESIGN FLOW (.1949): __480 GPD__ PROPERTY SIZE: _____
LOCATION OF SITE: _CL&T Sec. 6, Lot 405, 112 Yellow Jacket Cir._____ PROPERTY RECORDED: _____
WATER SUPPLY: ☒ Private ☐ Public ☒ Well ☐ Spring ☐ Other _____
EVALUATION METHOD: ☐ Auger Boring ☒ Pit ☐ Cut TYPE OF WASTEWATER: ☒ Sewage ☐ Industrial Process ☐ Mixed

PROFILE #	.1940 LANDSCAPE POSITION/ SLOPE %	HORIZON DEPTH (IN.)	SOIL MORPHOLOGY (.1941)		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	
1	LS 5%	0-8	FILL			48"			PS 0.3
		8-32	R C SBK	FR SS SP					
		32-48	R CL WSBK	FR SS SP					
2	LS 5%	0-20	FILL/SL			60"			PS 0.3
		20-46	R C SBK	FR SS SP					
		46-60	R CL WSBK	FR SS SP					
3	LS 10%	0-15	FILL/SL			56"			PS 0.3
		15-24	Br SCL WSBK	FR SS SP					
		24-56	R C SBK	FR SS SP					
4	LS 5%	0-10	FILL/SL			60"			PS 0.3
		10-37	R C SBK	FR SS SP					
		37-60	R CL WSBK	FR SS SP					

DESCRIPTION	INITIAL SYSTEM	REPAIR SYSTEM
Available Space (.1945)	1200 FT2	894 FT2
System Type(s)	25% Reduction	Hybrid
Site LTAR	0.3	0.3

OTHER FACTORS (.1946): _____
SITE CLASSIFICATION (.1948): _____

EVALUATED BY: _M A & Associates_____
OTHER(S) PRESENT: _____

COMMENTS: _____

SOIL/SITE EVALUATION

(Continuation Sheet)

Sheet ____ of ____

DEPARTMENT OF ENVIRONMENT
AND NATURAL RESOURCES
DIVISION OF ENVIRONMENTAL HEALTH

PROPERTY ID #: _____
DATE OF EVALUATION: _____
COUNTY: _____

PROFILE #	.1940 LANDSCAPE POSITION/ SLOPE %	HORIZON DEPTH (IN.)	SOIL MORPHOLOGY (.1941) .1941 STRUCTURE/ TEXTURE	SOIL MORPHOLOGY (.1941) .1941 CONSISTENCE/ MINERALOGY	OTHER PROFILE FACTORS .1942 SOIL WETNESS/ COLOR	OTHER PROFILE FACTORS .1943 SOIL DEPTH	OTHER PROFILE FACTORS .1956 SAPRO CLASS	OTHER PROFILE FACTORS .1944 RESTR HORIZ	PROFILE CLASS & LTAR
AB 1	LS 4%		27" FILL						
AB 2	LS 7%		38" FILL						
AB 3	LS 7%		20" FILL						

COMMENTS: _____

IREDELL COUNTY

PO Box 788
349 North Center St.
Statesville, NC 28677

APPLICATION NUMBER

201236

Issue Date: 01/15/2014

Permit Type: EXIST SEPTIC APPLICATION

Parcel Number	Street Address	Jurisdiction
4624257514.000	112 YELLOW JACKET CIRCLE	MOORESVILLE

Owner Information	Applicant Information	Contractor Information
Owner: KOONTZ KENNETH+SUSAN Address: , Phone:	Applicant: KOONTZ KENNETH A+SUSAN Address: 109 LYNNFIELD COURT MOORESVILLE, NC 28117 Phone:	Contractor: KOONTZ KENNETH A+SUSAN Address: 109 LYNNFIELD COURT MOORESVILLE, NC 28117 Phone: License Type License Number

Project Description

RESIDENTIAL POOL/SPA - IREDELL

Scope of Work

SWIMMING POOL

Permit Details:

	AUTHORIZATION CONSTRUCT	Amount:	155.00
	IN OFFICE SEPTIC PLAN APPROVAL	Amount:	40.00
		Amount:	
		Amount:	
		Amount:	
		Amount:	
		Amount:	

I hereby certify that all information in this application is correct and all work will comply with the state code and all other applicable state and local laws, ordinances and regulations. The respective department will be notified of any changes in the approved plans, a change of contractor, and/or specifications for the project permitted herein. This application becomes a permit only when validated and approved.

Date: 01/15/2014

Signature of Owner/Contractor

ANY PERMIT ISSUED EXPIRES SIX (6) MONTHS AFTER ISSUANCE IF NO INSPECTIONS HAVE BEEN MADE. ANY PERMIT ISSUED SHALL EXPIRE TWELVE (12) MONTHS AFTER LAST INSPECTION IF THE WORK IS DISCONTINUED.

Permit Number	4695	TOTAL FEES:	$ 195.00

S&ME, INC.
SITE/SOIL EVALUATION

Project No. 1549-12-132 Phone No. _____ Date: 12-4-12
Location 405 Hwy 74 Bypass Pin _____ County: Robeson Property Size _____

Proposed Facility: 4 BR Water Supply: On-Site Well ☒ Evaluation: Auger Boring ☒
Community ☐ Pit ☐
Described By: PSR - must be eval. by NHD Public ☐ Cut ☐
Weather: Warm Antecedent Moisture Dry Surface Water: Ch

FACTORS	PROFILE 1	PROFILE 2	PROFILE 3	PROFILE 4
Landscape Position %	L 10%	L	L	
Horizon Depth I	0-28	0-17 Ap	0-14 Ap	0-29
Color Munsell	10YR 5/6	10YR 5/6	10YR 5/6	10YR 5/6
Texture	SCL	SCL	SCL	SCL
Structure	WKPBK	WKPBK		WKSBK
Consistence	FR SS/SP	FR SS/SP		FR SS/SP
	SOIL Horizon APPEARS	MOTTLES - Seasonally possible		
Boundary				
Horizon Depth II	28-48	17-	14-36	29-39
Color – Munsell	N			10YR 5/8
Texture	C	C		SCL
Mottles	F micas throughout			
Structure	MFSBK	MSBK		WKSBK
Consistence	FR VSP/SS	FR SP-VSP/SS	FR SS/SP	FR SS/SP
Boundary				
Horizon Depth III		36-47	36-48	39-48
Color – Munsell		10YR 6/1	10YR 6/1	N
Texture		C	C	C
Mottles		F-C Saprolite	F-C	F-M
Structure		WKSBK		MFSBK
Consistence		FR SS/SP		FR SS/SP
Boundary				
Horizon Depth IV				
Color – Munsell				
Texture				
Mottles				
Structure				
Consistence				
Boundary				
Soil Wetness	—			
Restrictive Horizon	—			
Saprolite	—			
LTAR	3			3
Classification	PS	PS	PS	PS
				36"+

LEGEND

LANDSCAPE POSITION

R	Ridge Interfluve
S	Shoulder
L	Linear Slope
FS	Foot Slope
N	Nose Slope
H	Head Slope
Cc	Concave Slope
Cv	Convex Slope
T	Terrace
P	Flood Plain

TEXTURE

s	sand
ls	loamy sand
sl	sandy loam
l	loam
si	silt
sil	silt loam
sicl	silty clay loam
cl	clay loam
scl	sandy clay loam
sc	sandy clay
sic	silty clay
c	clay

CONSISTENCE WET

Ns	non-sticky
Ss	slightly sticky
S	sticky
Vs	very sticky
Np	non-plastic
Sp	slightly plastic
P	plastic
Vp	very plastic

MOIST

vfr	Very friable
fr	friable
fi	firm
vfi	Very firm

STRUCTURE

sg	single grain
m	massive
cr	crumb
gr	granular
sbk	subangular blocky
abk	angular blocky
pl	platy
pr	prismatic

lower P to 5% upper 10%

S&ME, INC.
SITE/SOIL EVALUATION

Remove to 18" fill + then install 36"

Project No. Ken Roth **Phone No.** _____ **Date:** _____
Location _____ **Pin** _____ **County:** _____ **Property Size** _____

Proposed Facility: _____ **Water Supply:** On-Site Well ☐ Community ☐ Public ☐ **Evaluation:** Auger Boring ☐ Pit ☐ Cut ☐
Described By: _____
Weather: _____ **Antecedent Moisture** by house _____ **Surface Water:** _____

P2 20"

FACTORS	PROFILE 5	PROFILE P1	PROFILE P3	PROFILE P4 -30" to B
Landscape Position %	L hay drive			
Horizon Depth I	0-29	0-18	0-24 fill?	29-0 fill
Color Munsell	br (10yr 4/3)			
Texture	sc-scl	br sl a ls	sl a sasc mix	
Structure	wk sbk	wk sbk	v wk	
Consistence	vfr ss/se	v fr ss sp	s s ss	
	P10 24			
Boundary				
Horizon Depth II	29-57	18-34	24-37	29-39
Color – Munsell	10yr 5/3 brn w			
Texture	scl	rock s	c	scl
Mottles	10yr 5/8			
Structure	m-f sbk	m-f sbk		wk sbk
Consistence	fr-fi sc	fr ss sp		
	P10 40			
Boundary	S			
Horizon Depth III		34-50	37-60	39-60
Color – Munsell				
Texture	cl	cl	c	c
Mottles		c mica	c mica f sap	m f sbk
Structure		wk sbk		f-w c mica
Consistence		fr ss sp		
		Augered 60" same	Aug to 75" cl	Aug to 75" cl 60-75" P.C.
Boundary				
Horizon Depth IV				
Color – Munsell				
Texture				
Mottles				
Structure				
Consistence				
Boundary				
Soil Wetness				
Restrictive Horizon				
Saprolite				
LTAR	3	.3	.3 below 24"	
Classification	Ps			

LEGEND

LANDSCAPE POSITION

R	Ridge Interfluve
S	Shoulder
L	Linear Slope
S	Foot Slope
N	Nose Slope
H	Head Slope
Cc	Concave Slope
Cv	Convex Slope
T	Terrace
P	Flood Plain

TEXTURE

s	sand
ls	loamy sand
sl	sandy loam
l	loam
si	silt
sil	silt loam
sicl	silty clay loam
cl	clay loam
scl	sandy clay loam
sc	sandy clay
sic	silty clay
c	clay

CONSISTENCE WET

Ns	non-sticky
Ss	slightly sticky
S	sticky
Vs	very sticky
Np	non-plastic
Sp	slightly plastic
P	plastic
Vp	very plastic

MOIST

vfr	Very friable
fr	friable
fi	firm
vfi	Very firm

STRUCTURE

sg	single grain
m	massive
cr	crumb
gr	granular
sab	subangular blocky
ab	angular blocky
pl	platy
pr	prismatic

12-18" Rammed 36" TD

P5

0 - 26 Br sl vs mix

26-36 Br scl wk sbk

36- 66 red c ms bk Gr ss sp

.3 below hill

5-10 % gravel

P6 Auger to 72"

0- 24 s l vs mix ff fi

24- 34 scl wk sbk

34- 55 red c ms bk ff ss sp few mica & sap

55-72 Auger to cl

P7 0 - 14 S & sl mix fill

14- 20 Br scl wk sbk Gr ss

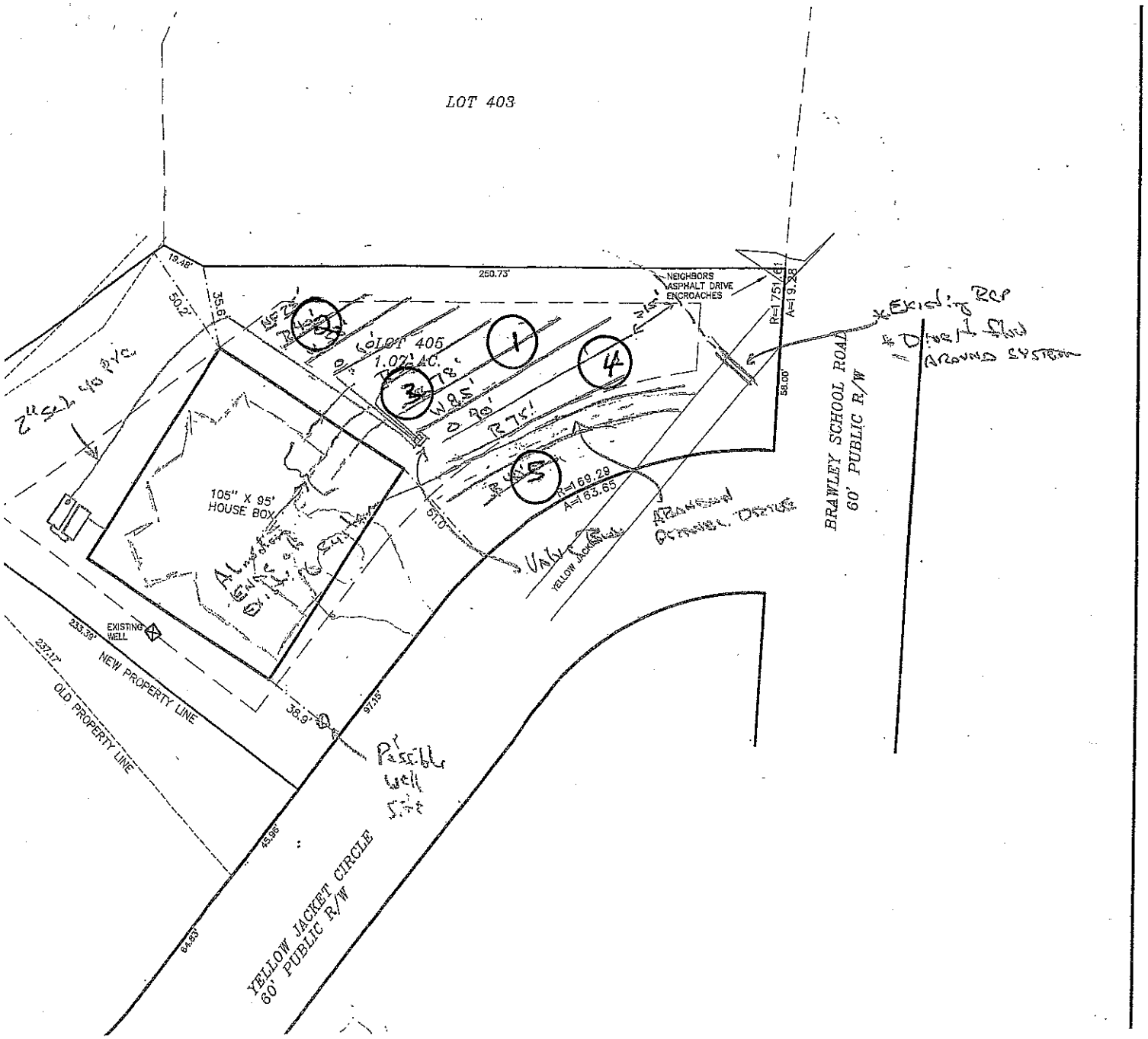
20- 50 red c m sbk Gr ss

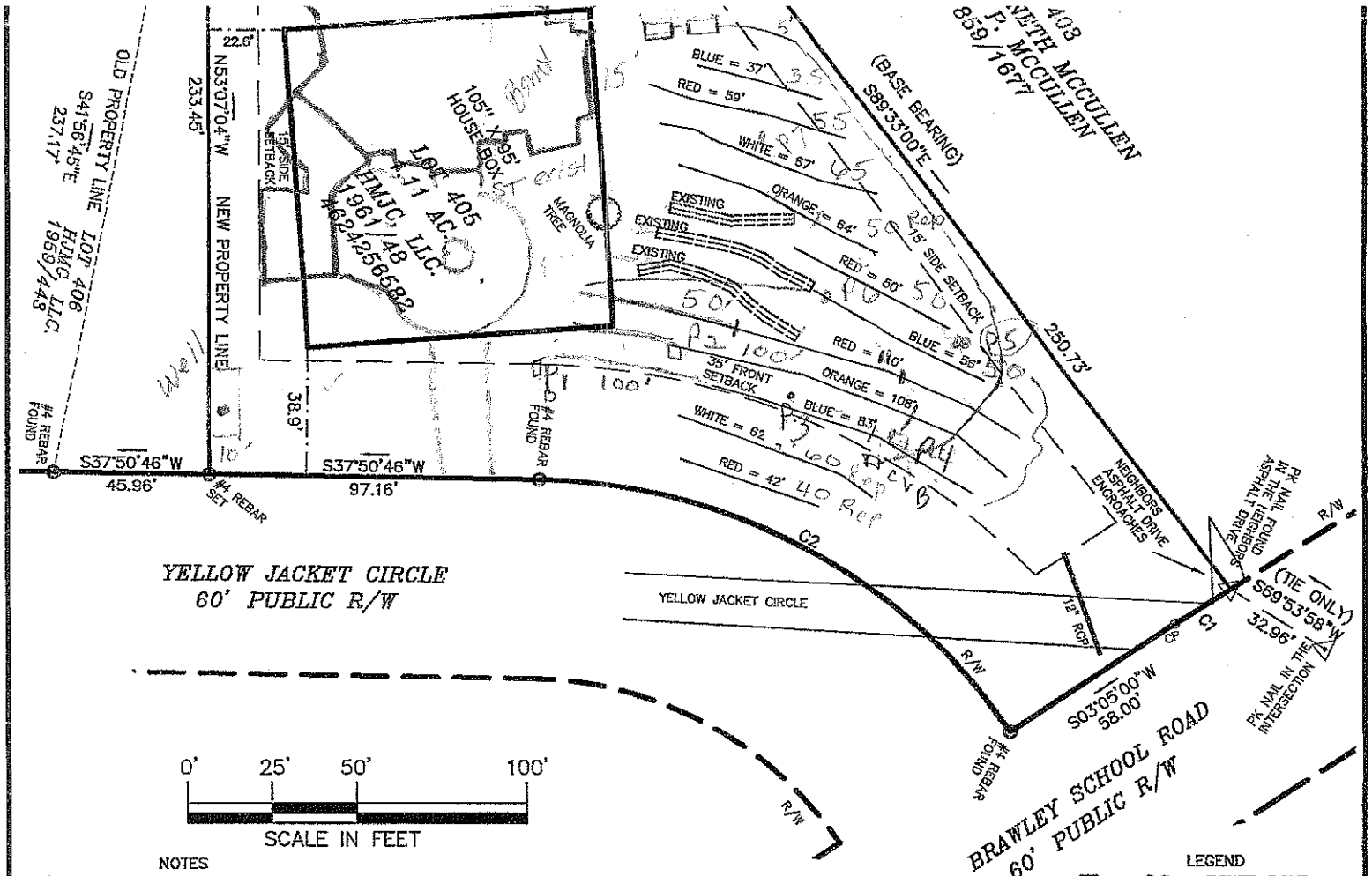
Auger to 72" cl Commica

P2 0-20 sl + scl + s Lill?

20-50 r c mfsbk ◯ sl ss sp

Auger 50-72 rcl c mica


LOT 403
260.73'
NEIGHBORS ASPHALT DRIVE ENCROACHES
LOT 405
1.07 AC.
105" X 95'
HOUSE BOX
EXISTING WELL
NEW PROPERTY LINE
OLD PROPERTY LINE
YELLOW JACKET CIRCLE
60' PUBLIC R/W
BRAWLEY SCHOOL ROAD
60' PUBLIC R/W
Possible well site
Approx. Hand Auger Borings



NOTES

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2) AREA COMPUTED BY THE COORDINATE METHOD.
3) EXISTING 760' & 761' CONTOUR ELEVATION BASED ON LAKE NORMAN LAKE LEVEL AT COWAN'S FORD DAM (READING ON 7/27/12) ELEVATION: 757.60'

BOUNDARY SURVEY

OF

112 YELLOW JACKET CIRCLE

LOT 405 CRESCENT LAND & TIMBER CORP, SECT. 6

DAVIDSON TWSP., IREDELL CO., N.C.

SCALE 1" = 50'

ACQUIRED BY: HMJC, LLC

LEGEND

- P.P. = POWER POLE
- = DUKE POWER TRANS.
- E.I.P. = EXISTING IRON FOUND
- I.P.S. = #4 REBAR SET
- R/W = RIGHT-OF-WAY
- (W) = WELL
- BH = BORE HOLE

FIELD BOOK:
FILE: CRESCENT LOT 405
DC FILE:
TAX MAP NO: 4624256582

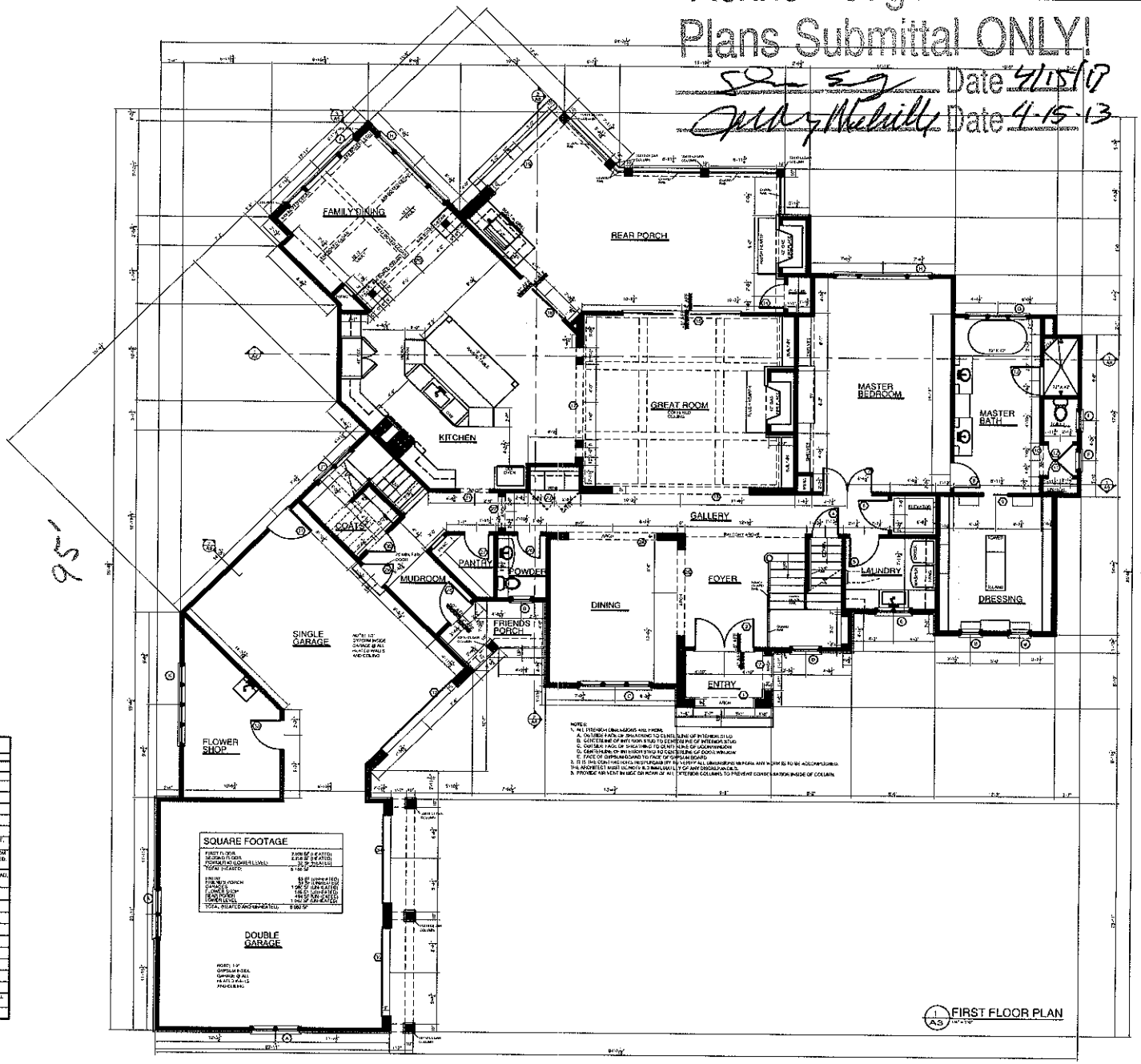
Acknowledgement Of
Plans Submittal ONLY!
Date 4/15/13
Date 4-15-13

FIRST FLOOR DOOR SCHEDULE		
	DOOR SIZE	DESCRIPTION
1	1 - 3'-0" X 8'-0"(H)	EXTERIOR, STONE, ARCHED OPENING, 8" WALL
2	1 - 3'-0" X 7'-0"(T)	EXTERIOR, STONE, ARCHED OPENING, 8" WALL
3	2 - 3'-0" X 8'-0"(T)	EXTERIOR, ARCHED, MAHOGANY, 3/4 LIGHT, PAIR TEMPERED
4	1 - 2'-4" X 8'-0"	INTERIOR, SOLID CORE, MOLDED, INSULATED
5	1 - 2'-0" X 8'-0"	INTERIOR, SOLID CORE, MOLDED
6	1 - 2'-0" X 8'-0"	INTERIOR, SOLID CORE, MOLDED
7	2 - 2'-6" X 8'-0"	INTERIOR, SOLID CORE, MOLDED, PAIR
8	1 - 2'-0" X 8'-0"	INTERIOR, SOLID CORE, MOLDED
9	1 - 2'-6" X 8'-0"	INTERIOR, SOLID CORE, MOULDED, POCKET
10	1 - 2'-7" X 6'-8"(H)	INTERIOR, GWB, ARCHED OPENING
11	1 - 2'-6" X 8'-0"	INTERIOR, SOLID CORE, MOLDED
12	1 - 2'-6" X 8'-0"	INTERIOR, SOLID CORE, MOLDED
13	1 - 3'-0" X 7'-0"	GLASS, SWING, SHOWER, TEMPERED
14	1 - 2'-6" X 8'-0"	EXTERIOR, SOLID CORE, MOLDED
15	4 - 3'-0" X 8'-0"	CATEGOR, OMNI CLAD, PATIO, SLIDING, TEMPERED
16	1 - 14'-0" X 8'-0"	INTERIOR, GWB OPENING, 8" WALL
17	1 - 11'-6" X 8'-0"	INTERIOR, CASED OPENING, 8" WALL, (2) 8" SQUARE COLUMNS
18	2 - 3'-0" X 8'-0"	EXTERIOR, PAIR, CLAD, PATIO, SLIDING, TEMPERED
19	1 - 10'-0" X 8'-0"	EXTERIOR OPENING, 16" THICK
20	1 - 10'-2" X 8'-0"	INTERIOR, GWB OPENING, 8" WALL, (2) 8" SQUARE COLUMNS
21	1 - 2'-6" X 8'-0"(H)	INTERIOR, GWB, ARCHED OPENING
22	1 - 3'-6" X 8'-0"(H)	INTERIOR, GWB, ARCHED OPENING
23	1 - 2'-4" X 8'-0"	INTERIOR, STONE GATES, PAIR
24	1 - 9'-0" X 8'-0"(H)	INTERIOR, GWB, ARCHED OPENING, 8" THICK
25	1 - 5'-0" X 8'-0"(H)	INTERIOR, GWB, ARCHED OPENING, 8" THICK
26	1 - 2'-6" X 8'-0"	INTERIOR, SOLID CORE, MOLDED
27	1 - 2'-0" X 8'-0"	INTERIOR, SOLID CORE, MOLDED
28	1 - 3'-0" X 8'-0"	EXTERIOR, CLAD, 1/2 LIGHT, TEMPERED
29	1 - 2'-0 X 8'-0"	EXTERIOR, SOLID CORE, MOLDED, 20 MIN. FIRE RATED
30	1 - 2'-6" X 8'-0"	INTERIOR, SOLID CORE, MOLDED
31	1 - 2'-0" X 8'-0"	EXTERIOR, FARMHOUSE, 1/2 LIGHT, SMOOTH PANEL, TEMPERED
32	1 - 16'-0" X 8'-0"	CUSTOM, WESTERN RED CEDAR GARAGE DOOR
33	1 - 2'-0" X 8'-0"	EXTERIOR, SOLID CORE, MOLDED
34	1 - 9'-0" X 8'-0"	CUSTOM, WESTERN RED CEDAR GARAGE DOOR
35	1 - 9'-0" X 8'-0"	CUSTOM, WESTERN RED CEDAR GARAGE DOOR

FIRST FLOOR ROOM SCHEDULE				
ROOM NAME	DIMENSIONS	CLG HT (LOWER)	CLG HT (HIGHER)	FLOOR MAT.
ENTRY	4'-11" X 6'-0"	8'-0"		FLAGSTONE
FOYER	9'-4" X 11'-10 1/2"	OPEN	22'-1 1/4"	HARDWOOD
GALLERY	39'-0 1/2" X 4'-4"	10'-0"	–	HARDWOOD
LAUNDRY	5'-7 1/2" X 7'-4 1/2"	10'-0"	–	CERAMIC TILE
ELEVATOR	4'-6" X 4'-4"		–	HARDWOOD
MASTER BEDROOM	15'-7 1/2" X 22'-6"	10'-0"	–	HARDWOOD
MASTER BATH	13'-7 1/2" X 16'-4 1/2"	10'-0"	–	CERAMIC TILE
LINEN #1	3'-6" X 1'-6"	10'-0"	–	CERAMIC TILE
TOILET	3'-6" X 6'-6"	10'-0"	–	CERAMIC TILE
DRESSING	11'-0" X 14'-0"	10'-0"	–	HARDWOOD
GREAT ROOM	21'-0" X 16'-0"	12'-0"	17'-0"	HARDWOOD
KITCHEN	24'-0" X 28'-6 3/8"	10'-0"	–	HARDWOOD
FAMILY DINING	12'-2" X 12'-1 1/2"	12'-5 1/4"	16'-8 1/4"	HARDWOOD
REAR PORCH	32'-3 1/2" X 21'-11"	10'-2 1/4"	–	FLAGSTONE
DINING	13'-0" X 15'-0"	10'-0"	–	HARDWOOD
POWDER	5'-0" X 5'-0"	10'-0"	–	HARDWOOD
PANTRY	5'-0" X 8'-0"	10'-0"	–	HARDWOOD
COATS	6'-0" X 8'-0"	9'-11 1/2"	10'-0"	HARDWOOD
MUDROOM	12'-11 3/4" X 14'-8 1/4"	10'-0"	–	HARDWOOD
FRIENDS PORCH	10'-4 1/2" X 7'-3 3/4"	10'-0"	–	FLAGSTONE
SINGLE GARAGE	22'-0" X 26'-0"	11'-9"	–	CONCRETE
FLOWER SHOP	10'-10 1/2" X 19'-0"	11'-9"	–	CONCRETE
DOUBLE GARAGE	22'-0 1/2" X 23'-0"	11'-9"	–	CONCRETE

WINDOW SCHEDULE NOTE: WINDOW MANUFACTURER TO BE PELLA ARCHITECT SERIES CLAD			
	QTY	WINDOW SIZE	HEAD HEIGHT
A	2	59 X 59	8'-0" FIRST
B	5	29 X 35	8'-0" FIRST
C	1	29 X 71 - 3	8'-0" FIRST
D	1	35 X 71 (ROUGH)	11'-0" FIRST (OPENING)
E	1	42 X 53	8'-0" FIRST
F	2	29 X 59	8'-0" FIRST
G	1	29 X 53 - 3	8'-0" FIRST
H	2	29 X 59, 59 X 71, 29 X 53	8'-0" FIRST
I	1	29 X 53, 59 X 71, 29 X 59, TRANSOM	8'-0" FIRST (HEAD OF BOTTOM WINDOWS)
J	1	29 X 80 - 2, 29 X 59 (ROUGH) 29 X 59 (ROUGH)	8'-0 1/4" (SECOND OPENING)
K	1	29 X 59 - 4	8'-0" FIRST
L	7	29 X 35	7'-0" SECOND
M	1	29 X 67.5/8 - 2	7'-0" SECOND (OPENING)
N	9	29 X 59	8'-0" SECOND
O	1	29 X 35	8'-0" SECOND
P	1	20 X 58 - 2	8'-0" SECOND
Q	1	29 X 58 - 4	8'-0" SECOND
R	4	29 X 59	8'-0" SECOND
S	1	29 X 47 - 4	8'-0" BASEMENT
T	1	29 X 47, 59 X 47, 29 X 47	8'-0" BASEMENT
U	1	29 X 41	8'-0" FIRST

NOTES:
1. ALL WINDOWS TO BE PELLA ARCHITECT SERIES CLAD WITH LOW-E GLASS AND SCREENS, UNLESS NOTED OTHERWISE.
2. ALL WINDOWS TO BE INSULATED GLASS WITH LOW-E GLASS AND SCREENS, UNLESS NOTED OTHERWISE.
3. ALL WINDOWS TO BE PELLA ARCHITECT SERIES CLAD WITH LOW-E GLASS AND SCREENS, UNLESS NOTED OTHERWISE.



PROJECT NAME AND ADDRESS
Koontz Residence
112 Yellow Jacket Circle
Mooresville, NC 28117

DRAWING TITLE
FIRST FLOOR PLAN

DATE

SHEET NO.
A3

SECOND FLOOR DOOR SCHEDULE

	DOOR SIZE	DESCRIPTION
1	1 - 3'-0" x 7'-0"	INTERIOR SOLID CORE, MOISTURE INSULATED
4	1 - 3'-0" x 7'-0"	INTERIOR, SOLID CORE, MOLDED
2	1 - 2'-6" x 7'-0"	INTERIOR SOLID CORE, MOLDED
4	1 - 2'-6" x 7'-0"	INTERIOR SOLID CORE, MOLDED
5	1 - 2'-6" x 7'-0"	INTERIOR, SOLID CORE, MOLDED, POCKET
6	1 - 3'-0" x 7'-0"	GLASS, SWING, SHOWER, TEMPERED
7	1 - 2'-6" x 7'-0"	INTERIOR, SOLID CORE, MOLDED
8	1 - 4'-0" x 7'-0" 4'-0"	INTERIOR, CVNF, BRONZE DAYLIGHT
9	1 - 2'-8" x 7'-0"	INTERIOR, SOLID CORE, MOLDED
10	1 - 2'-6" X 7'-0"	INTERIOR, SOLID CORE, MOLDED
11	1 - 2'-6" X 7'-0"	INTERIOR, SOLID CORE, MOLDED, POCKET
12	1 - 2'-6" X 7'-0"	INTERIOR, SOLID CORE, MOLDED
13	1 - 2'-6" X 7'-0"	INTERIOR, SOLID CORE, MOLDED, POCKET
14	1 - 2'-6" X 7'-0" 16'-0"	INTERIOR, SWING ARCHED OPENING
15	2 - 2'-6" X 7'-0"	INTERIOR, SOLID CORE, MOLDED, PAIR
16	1 - 2'-0" X 7'-0"	CUSTOM SWING, BOOKSHELF, INSULATED
17	1 - 2'-4" X 7'-0"	INTERIOR SOLID CORE, MOLDED
18	2 - 1'-10" X 7'-0"	GLASS, SLIDING, SHOWER, TEMPERED, PAIR
19	1 - 2'-6" X 7'-0"	INTERIOR, SOLID CORE, MOLDED
20	1 - 2'-6" X 7'-0"	INTERIOR, SOLID CORE, MOLDED
21	1 - 2'-4" X 7'-0"	INTERIOR, SOLID CORE, MOLDED
22	1 - 2'-4" X 7'-0"	INTERIOR, SOLID CORE, MOLDED

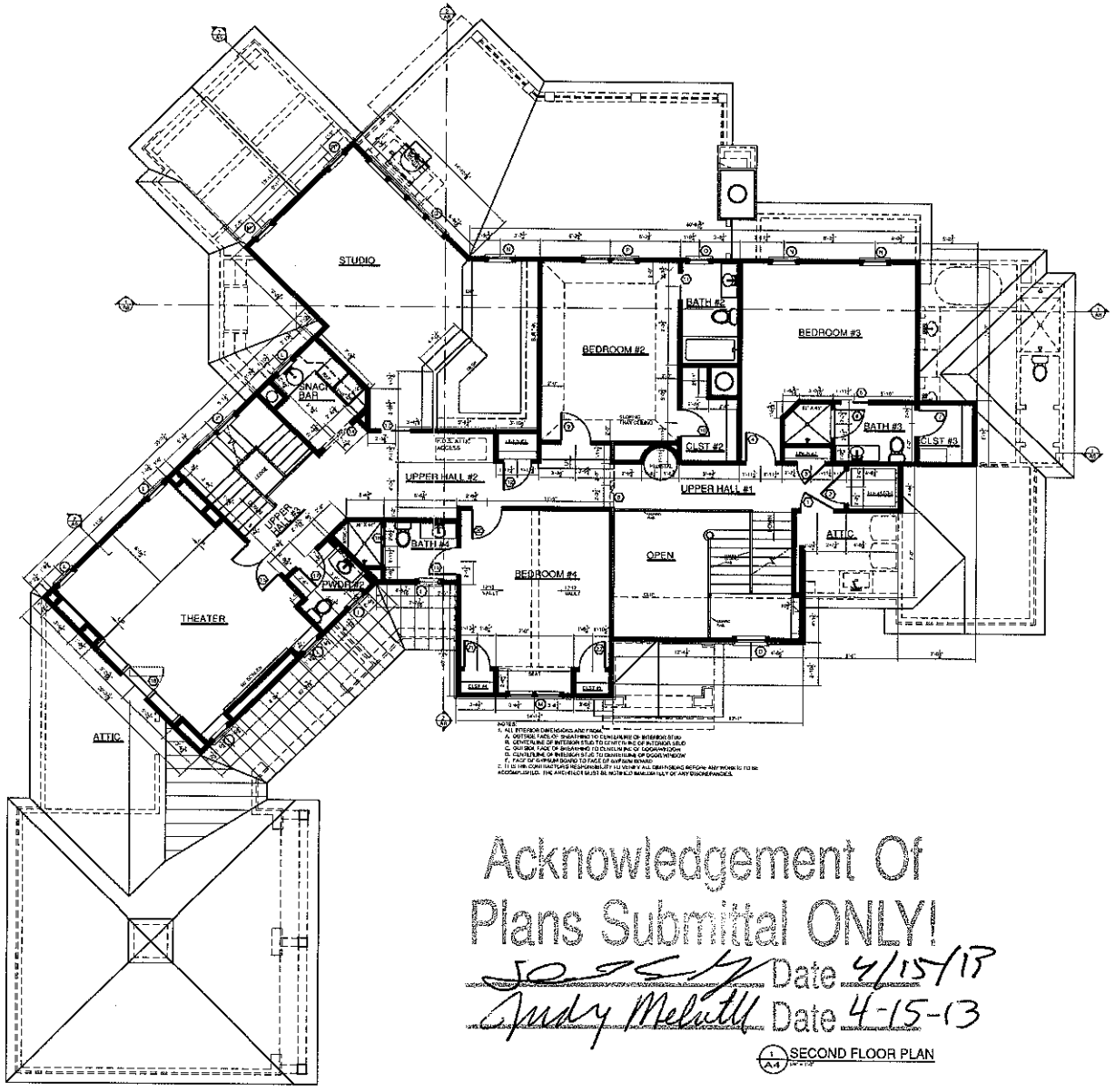
SECOND FLOOR ROOM SCHEDULE

ROOM NAME	UNFINISHED	CEILING HEIGHT	FLOOR FINISH
UPPER HALL #1	26'-8 5/8" X 4'-4 1/8"	9'-0"	HARDWOOD
ELEVATOR	4'-0" X 4'-0"	–	HARDWOOD
LINEN #2	6'-0" X 1'-3"	9'-0"	HARDWOOD
BEDROOM #3	15'-7 1/8" X 16'-4 1/8"	9'-0"	HARDWOOD
BATH #3	11'-9" X 5'-4 1/2"	9'-0"	CERAMIC TILE
CLOSET #3	4'-10" X 2'-4 1/2"	9'-0"	CARPET
BEDROOM #2	12'-3" X 10'-7 1/2"	9'-0"	CARPET
BATH #2	9'-0" X 5'-4 1/2"	9'-0"	CERAMIC TILE
CLOSET #2	6'-0" X 2'-7 1/2"	9'-0"	CARPET
LINEN #1	2'-0" X 2'-0"	9'-0"	HARDWOOD
BEDROOM #4	13'-4 1/2" X 13'-4 1/2"	9'-0"	HARDWOOD
BATH #4	11'-1" X 5'-0"	9'-0"	CERAMIC TILE
CLOSET #4	3'-3" X 2'-0"	9'-0"	HARDWOOD
CLOSET #5	3'-5" X 2'-0"	9'-0"	HARDWOOD
UPPER HALL #2	23'-3 1/8" X 7'-11 1/2"	9'-0"	HARDWOOD
STUDIO	25'-11 3/8" X 25'-11 5/8"	9'-0"	HARDWOOD
SNACK BAR	7'-0" X 7'-0"	–	CERAMIC TILE
UPPER HALL #3	14'-3 1/8" X 4'-6 5/8"	9'-0"	HARDWOOD
PWDR #2	5'-4 1/8" X 5'-0"	9'-0"	CERAMIC TILE
THEATER	16'-2" X 19'-0 1/2"	9'-5 3/4"	CARPET

WINDOW SCHEDULE

NOTE: WINDOW MAKER ACTUALS TO BE FILLED IN BY ARCHITECT BEFORE CAD

	QTY	WINDOW SIZE	HEAD HEIGHT	DESCRIPTION
A	2	58 X 34	8'-0" FIRST	CASEMENT, TWIN, GRILLE
B	3	28 X 26	8'-0" FIRST	CASEMENT, SINGLE, GRILLE
C	1	29 X 71 = 3	8'-0" FIRST	CASEMENT, TRIPLE, GRILLE
D	1	35 X 71.30/75.5	11'-4" FIRST (SPRING)	CASUALMT, SINGLE, FIXED, ARCH HEAD, TEMPERED
E	1	47 X 53	8'-0" FIRST	CASEMENT, TWIN, GRILLE
F	3	25 X 26	8'-0" FIRST	CASEMENT, SINGLE, GRILLE
G	1	73 X 53 = 3	8'-0" FIRST	CASEMENT, TRIPLE, GRILLE, TEMPERED
H	2	35 X 53, 53 X 71, 75 X 53	8'-0" FIRST	CASEMENT, SINGLE, GRILLE, TOPPER, SINGLE, FIXED SINGLE, GRILLE, EGRESS, (MULLED IN FACTORY)
I	1	35 X 83, 53 X 71, 75 X 53, (INSWING)	8'-0" FIRST (HEAD OF BOTTOM WINDOWS)	CASEMENT, SINGLE, GRILLE, SINGLE, FIXED, SINGLE, GRILLE, TRANSOM (FIXED, PARTIAL ARCH HEAD, GRILLE, FIXED, ARCH HEAD, GRILLE, FIXED, PARTIAL ARCH HEAD, GRILLE, 2X6 WALL, MULLED IN FACTORY
J	1	29 X 59 = 2, 29 X 59 = 2, 31.5/27.5/5, 3X 31.5/27.5/5	8'-0" 9'-0" SECOND (SPRING)	CASUALMT, TWIN, GRILLE, TEMPERED TWIN, FIXED, PARTIAL ARCH HEAD, GRILLE, TEMPERED, (MULLED IN FACTORY)
h	1	23 X 29 = 4	6'-0" FIRST	CASEMENT, QUAD, GRILLE
K	7	23 X 35	7'-0" SECOND	CASEMENT, SINGLE, GRILLE
M	1	29 X 57.5/45 = 2	7'-0" SECOND (SPRING)	CASEMENT, TWIN, PARTIAL ARCH HEAD, GRILLE, EGRESS
N	3	25 X 59	8'-0" SECOND	CASEMENT, SINGLE, GRILLE, EGRESS
O	1	23 X 56	8'-0" SECOND	CASUALMT, SINGLE, GRILLE
P	1	29 X 59 = 2	8'-0" SECOND	CASUALMT, TWIN, GRILLE, EGRESS
Q	1	29 X 59 = 4	8'-0" SECOND	CASEMENT, QUAD, GRILLE
R	2	23 X 35	8'-0" SECOND	CASEMENT, SINGLE, GRILLE
S	1	29 X 47.5	8'-0" BASEMENT	CASEMENT, TRIPLE, GRILLE, (AS WAS)
T	1	29 X 47, 53 X 47, 23 X 42	8'-0" BASEMENT	CASUALMT, SINGLE, GRILLE, SINGLE, FIXED, SINGLE, GRILLE (2X6 WALL, MULLED IN FACTORY)
U	1	23 X 41	7'-4" FIRST	CASUALMT, SINGLE, GRILLE, (TEMPERED



NOTES:
A. ALL EXTERIOR DIMENSIONS ARE FROM FACE OF EXTERIOR SHEATHING
B. VERTICAL DIMENSIONS ARE FROM TOP OF SUBFLOOR TO TOP OF SUBFLOOR
C. INTERIOR DIMENSIONS ARE TO FACE OF FINISH MATERIAL
D. CENTERLINE OF INTERIOR WALLS TO CENTERLINE OF LOADBEARING WALLS
E. CENTERLINE OF BEARING WALLS TO CENTERLINE OF GIRDER
F. FACE OF GYPSUM BOARD TO FACE OF GYPSUM BOARD
G. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL DIMENSIONS BEFORE ANY WORK IS TO BE ACCOMPLISHED. THE ARCHITECT MUST BE NOTIFIED IMMEDIATELY OF ANY DISCREPANCIES.

Acknowledgement Of
Plans Submittal ONLY!
Date 4/15/13
Date 4-15-13

1/A4 SECOND FLOOR PLAN

DESIGNER
DAVID CT
AND ASSOCIATES, INC.
P.O. BOX 471661
CHARLOTTE, NC 28247

ARCHITECT
ARCHITECTURAL RESOURCES
ARCHITECTURE AIA
1944 PROVIDENCE WAY
SUITE 201
CHARLOTTE, NC 28277

PROJECT NAME AND ADDRESS
Koontz Residence
112 Yellow Jacket Circle
Mooresville, NC 28117

DRAWING TITLE
SECOND FLOOR PLAN

DATE
APR 15 2013

SHEET NO.
A4

BASEMENT DOOR SCHEDULE

	DOOR SIZE	DESCRIPTION
1	1 - 2'-8" x 6'-8"	INTERIOR, SOLID CORE, MOLDED
2	1 - 2'-0" x 6'-8"	INTERIOR, SOLID CORE, MOLDED, INSULATED
3	1 - 2'-6" x 7'-0"	GLASS, SWING, SHOWER, TEMPERED
4	1 - 2'-0" x 6'-8"	INTERIOR, SOLID CORE, MOLDED
5	1 - 3'-0" x 6'-8"	INTERIOR, SOLID CORE, MOLDED
6	2 - 2'-6" x 8'-0"	EXTERIOR, FIBERGLASS, LIGHT, SMOOTH PANEL, TEMPERED 2X6 WALL

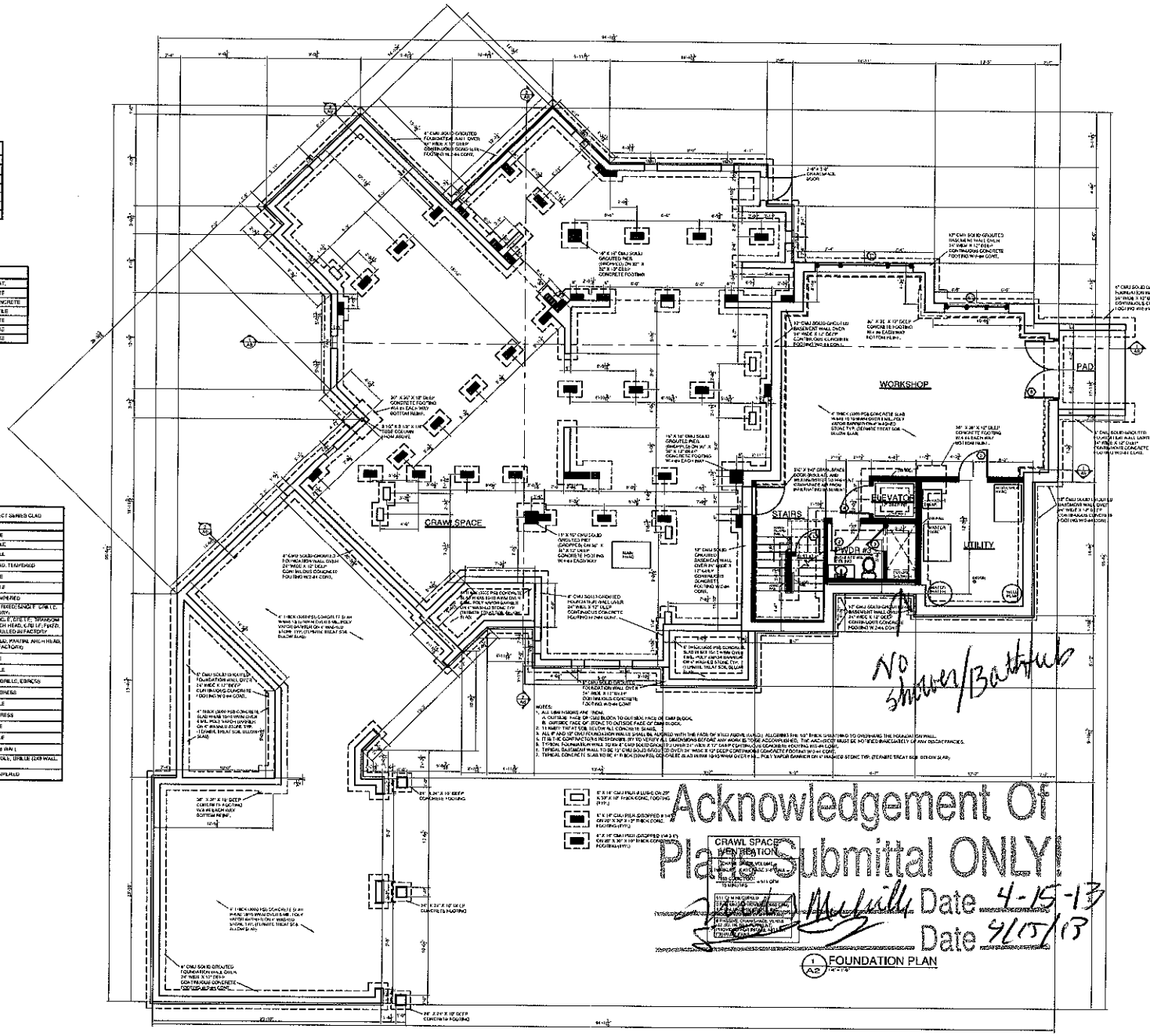
BASEMENT ROOM SCHEDULE

ROOM NAME	DIMENSIONS	CLG HT (LOWER)	CLG HT (HIGHER)	FLOOR MAT.
WORKSHOP	27'-11 1/2" X 20'-2 1/2"	12'-0"	–	CONCRETE
STAIRS	7'-11 1/2" X 15'-0"	12'-0"	–	HARDWOOD/CONCRETE
POWDER #2	5'-0 1/2" X 6'-11 1/2"	10'-0"	–	CERAMIC TILE
CLST #1	3'-11 1/2" X 6'-11"	7'-1 5/8"	9'-1"	CONCRETE
ELLEVATOR	4'-0" X 4'-0"	–	–	CONCRETE
UTILITY	10'-6" X 13'-4"	10'-0"	–	CONCRETE

WINDOW SCHEDULE

MODEL WINDOW MANUFACTURER TO BE PELLA ARCHITECT SERIES CLAD

	QTY	WINDOW SIZE	HEAD HEIGHT	DESCRIPTION
A	2	3'-0 X 5'-0	9'-8" FIRST	CASEMENT, TWIN, GRILLE
B	5	3'-0 X 2'-0	8'-0" FIRST	CASEMENT, SINGLE, GRILLE
C	1	2'-0 X 7'-1 - 5	8'-0" FIRST	CASUALNE, TRIPLE, GRILLE
D	8	3'-0 X 7'-1 5/8 TO 8'-5	11'-0" FIRST (STAIRWAY)	CASEMENT, SINGLE, FIXED, ARCH HEAD, TEMPERED
E	1	4'-0 X 5'-0	8'-0" FIRST	CASEMENT, TWIN, GRILLE
F	6	2'-0 X 3'-0	8'-0" FIRST	CASEMENT, SINGLE, GRILLE
G	1	2'-0 X 5'-0 + 1'-0 X 5'-0 + 1'-0	8'-0" FIRST	CASEMENT, TRIPLE, GRILLE TEMPERED
H	2	7'-5 X 5'-10 X 7'-5 X 2'-0 X 5'-0	8'-0" FIRST	CASEMENT, DIRECT, GRILLE, EGRESS, SINGLE, FIXED, SINGLE CASE, GRILLED, EGRESS, (MULLED IN FACTORY)
I	1	7'-5 X 5'-10 X 7'-1 - 7'-5 X 5'-0 TRANSOM	8'-0" FIRST (HEAD OF BOTTOM WINDOWS)	CASEMENT, SINGLE, GRILLE, SINGLE, FIXED, SINGLE, DIRECT, TRANSOM (FIXED, PARTIAL ARCH HEAD, 4 GRILLE) FIXED, ARCH HEAD, 4 GRILLE, FIXED, PARTIAL ARCH HEAD, GRILLE, (2) 2X6 WALL, MULLED IN FACTORY
J	1	2'-0 X 5'-0 + 2'-0 X 5'-0 + 01.0/5/5/5/8, 2'-0 X 5'-0 01.0/5/5/5/8	9'-0 1/2" SECOND (SPRING)	CASUALNE, TWIN, GRILLE, TEMPERED, TWIN, FIXED, PARTIAL ARCH HEAD, GRILLE, TEMPERED, (MULLED IN FACTORY)
K	1	2'-0 X 4'-0	9'-8" FIRST	CASUALNE, QUAD, GRILLE
L	2	2'-0 X 3'-0	7'-0" SECOND	CASEMENT, SINGLE, GRILLE
M	1	2'-0 X 5'-7, QWD + 2	7'-10" SECOND (SPRING)	CASEMENT, TWIN, PARTIAL ARCH HEAD, GRILLE, EGRESS
N	3	2'-0 X 5'-0	8'-0" SECOND	CASUALNE, SINGLE, GRILLE, EGRESS
O	1	3'-0 X 3'-0	8'-0" SECOND	CASUALNE, SINGLE, GRILLE
P	1	7'-0 X 5'-0 + 2	8'-0" SECOND	CASEMENT, TWIN, GRILLE, EGRESS
Q	1	2'-0 X 5'-0 + 1	8'-0" SECOND	CASEMENT, QUAD, GRILLE
R	2	2'-0 X 3'-0	8'-0" SECOND	CASEMENT, SINGLE, GRILLE
S	1	2'-0 X 4'-0	8'-0" BASEMENT	CASEMENT, TRIPLE, GRILLE, (7) 2X6 WALL
T	1	2'-0 X 4'-7, 5'-0 X 4'-7, 2'-0 X 4'-7	8'-0" BASEMENT	CASEMENT, SINGLE, GRILLE, SINGLE, FIXED, SINGLE, SINGLE, GRILLE (2X6 WALL, MULLED IN FACTORY)
U	1	2'-5 X 4'-1	7'-9" FIRST	CASEMENT, SINGLE, GRILLE, TEMPERED



DESIGNER
IAN GOTTI
ARCHITECTURAL
CHARLOTTE, NC 28277

ARCHITECT
STRUCTURAL
ARCHITECTURE, PA
CHARLOTTE, NC 28277

PROJECT NAME AND ADDRESS
Koontz Residence
112 Yellow Jacket Circle
Mooresville, NC 28117

DRAWING TITLE
FOUNDATION/BASEMENT PLAN

DATE
4/15/2013

SHEET NO.
A2

Paid $155.00 1-27-14 Paid $40.00 Statesville 1/15/14 PW

IREDELL COUNTY HEALTH DEPARTMENT Paid $155.00 Int. Relay 1-16-14

ENVIRONMENTAL HEALTH DIVISION

PAGE 1: *APPLICATION FORM*

Application For:
( ) New Well Permit ( ) Well Repair Permit ( ) Well Abandonment
(X) Septic Improvement Permit (X) Authorization to Construct ( ) Existing System Inspection ( ) Septic System Repair

THE ABOVE PERMIT DOCUMENTS WILL BECOME INVALID IF INFORMATION PROVIDED ON THIS APPLICATION IS FALSIFIED OR CHANGED, OR IF THE SITE IS ALTERED. THE IMPROVEMENT PERMIT IS VALID FOR EITHER 60 MONTHS OR WITHOUT EXPIRATION DEPENDING UPON DOCUMENTATION SUBMITTED APPLICATION WITH SITE PLAN 60 MONTHS, APPLICATION WITH COMPLETE, SCALED PLAT WITHOUT EXPIRATION. SEE 15A NCAC 18A .1937(f) FOR DETAILS.

Page 2: *Site Plan Worksheet* form MUST accompany this application

The following optional attachments may also be submitted: ( ) Survey Plat, scaled no more than 1 inch = 60 feet
Place an (X) beside whichever is submitted if applicable ( ) Custom Site Plan, scaled no more than 1 inch = 60 feet

Applicant Information:

Applicant Name: Ken Koontz **Address:** 161 old Post Rd Mooresville NC 28117 **Phone:**

Owner Name: Same **Address:** **Phone:**

Property Information:

Street Address: 112 Yellow Jacket

Subdivision Name: CLT **Section/Phase:** 6 **Lot Number:** 405

Driving Directions: BSR, TR Yellow Jacket, on Rt

Site Development Information: *(check or complete ALL that apply)*

(X) New Single Family Residence
( ) New Multi-Family Residence
( ) Accessory Building
( ) Bedroom(s) Addition

Maximum Number of Bedrooms: 4
Maximum Number of Occupants:
(X) Swimming Pool
( ) Other Addition/Structure:

( ) Crawl Space Foundation
( ) Concrete Slab Foundation
(X) Basement with Plumbing
( ) Basement without Plumbing

Non-Residential Site Development:
Type of Business:
Square Footage of Building:
Maximum Number of Employee:
Maximum Number of Seats/Beds/Other:

Water Supply:

(X) New Well ( ) Existing Well ( ) Community Well ( ) City Water ( ) Other Public Water

Desired Septic System Type: *(you may rank in order of preference)* **Year existing system installed:**
(X) No Preference ( ) Alternative ( ) Conventional ( ) Innovative ( ) Modified Conventional ( ) Other:

Please answer the following to the best of your ability:
( ) Yes (X) No Does the site contain any jurisdictional wetlands?
( ) Yes (X) No Is any non-domestic sewage (i.e. industrial) to be generated?
( ) Yes (X) No Is the site subject to approval by any other public agency?

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.

Signature: _____ 1/15/14
Property owner or owner's legal representative signature (SIGNATURE REQUIRED) DATE

IREDELL COUNTY HEALTH DEPARTMENT

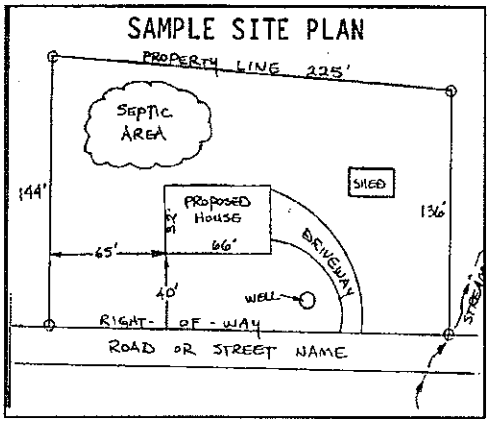
ENVIRONMENTAL HEALTH DIVISION

PAGE 2: ***SITE PLAN WORKSHEET***

SEE THE "SAMPLE SITE PLAN" BELOW. ***INCOMPLETE SITE PLANS WILL BE RETURNED TO YOU FOR COMPLETION AND MAY RESULT IN A DELAY IN THE ISSUANCE OF YOUR SEPTIC SYSTEM PERMIT!!!***

Place an (X) beside each item as you complete the site plan:

( ) **Property Line measurements are clearly identified**
( ) **All proposed structures are indicated**
( ) **Front and side setbacks from property line**
( ) **Preferred driveway location and well location**
( ) **Area you prefer your septic system to be placed**
( ) **North arrow, or other sufficient indicator of direction**



Circle N/A on the following if appropriate:

Location of septic systems and wells within 100' of your property	**N/A**
Location of easements and rights of ways on your property	**N/A**
Location of any designated wetlands on the property	**N/A**

USE THIS SPACE TO DRAW YOUR SITE PLAN

Show: proposed house or business footprint, wells, water lines, patios, pools and decks, and any other item that will occupy space on the site

See Attached Plan

Signature: _____

Property owner or owner's legal representative signature (SIGNATURE REQUIRED)

1/15/14

DATE

IREDELL COUNTY

PO Box 788
349 North Center St.
Statesville, NC 28677

APPLICATION NUMBER

201236

Issue Date: 01/27/2014

Permit Type: AUTHORIZATION CONSTRUCT

Parcel Number	Street Address	Jurisdiction
4624257514.000	112 YELLOW JACKET CIRCLE	MOORESVILLE

Owner Information	Applicant Information	Contractor Information
Owner: KOONTZ KENNETH+SUSAN Address: , Phone:	Applicant: KOONTZ KENNETH A+SUSAN Address: 109 LYNNFIELD COURT MOORESVILLE, NC 28117 Phone:	Contractor: KOONTZ KENNETH+SUSAN Address: , Phone: License Type License Number

Project Description

RESIDENTIAL POOL/SPA - IREDELL

Scope of Work

SWIMMING POOL

Permit Details:

	AUTHORIZATION CONSTRUCT	Amount:	155.00
		Amount:	
		Amount:	
		Amount:	
		Amount:	
		Amount:	
		Amount:	

40
+155
+155
350.00

Paid $350.00 total

I hereby certify that all information in this application is correct and all work will comply with the state code and all other applicable state and local laws, ordinances and regulations. The respective department will be notified of any changes in the approved plans, a change of contractor, and/or specifications for the project permitted herein. This application becomes a permit only when validated and approved.

Date: 01/27/2014

Signature of Owner/Contractor

ANY PERMIT ISSUED EXPIRES SIX (6) MONTHS AFTER ISSUANCE IF NO INSPECTIONS HAVE BEEN MADE. ANY PERMIT ISSUED SHALL EXPIRE TWELVE (12) MONTHS AFTER LAST INSPECTION IF THE WORK IS DISCONTINUED.

Permit Number	5442	TOTAL FEES:	$ 155.00