

MICHAEL ATHANAS & ASSOCIATES
NORTH CAROLINA LISCENSED SOIL SCIENTEST
1999 CANDLEWICK DRIVE
FORT MILL, SOUTH CAROLINA 29715

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Attached is an onsite wastewater septic design for a 4 bedroom residential home at Bells Crossing Subdivision lot 86 in Iredell County, NC.

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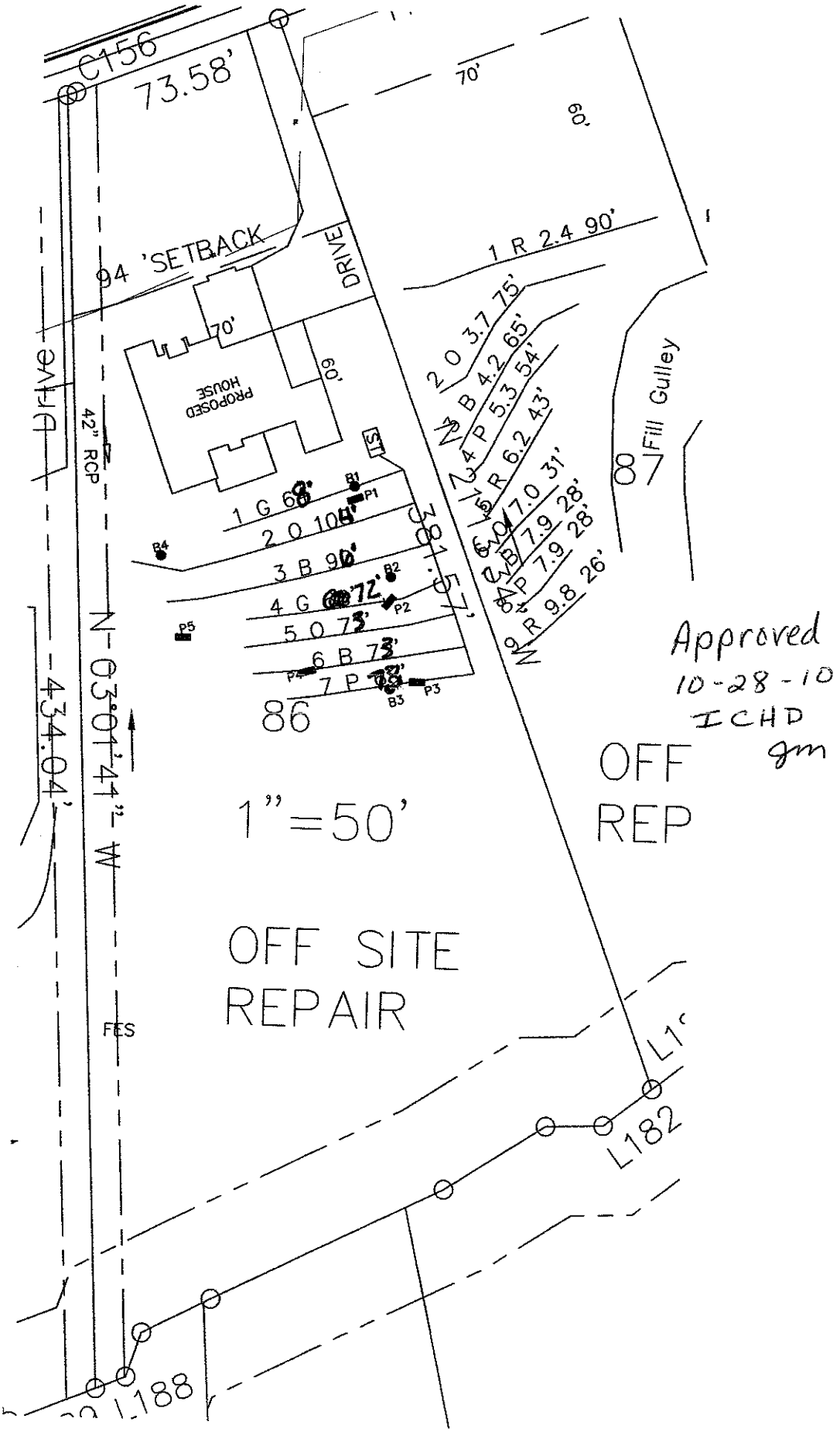
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October 21, 2010

BELL CROSSING LOT 86
APPLICANT AND DESIGN SPECIFICATIONS

Applicant:	Bells Crossing, LLC
Phone:	
Address:	127B Promenade Dr. Mooresville, NC 28117
County:	704 361 1084
Location:	Bells Crossing LOT 86
Application for:	4 Bedroom Single Family Residence
Gallons per day:	480
Linear feet:	536
Loading Rate (gpd/ft.2):	0.225
Trench Depth:	12 in.
Trench Width:	36 in.
Septic Tank Size:	1000
Pump Tank Size:	N/A
Estimated Supply line Length/ft:	2
Supply Line Diameter:	3 in. SCH 40 PVC
Dosing volume:	ON DEMAND
Lateral line volume:	350.01
Supply Manifold:	SERIAL DISTRIBUTION
Manifold Length:	N/A
Manifold Volume:	N/A
Pressure Head:	N/A
Friction Head:	N/A
Elevation Head:	N/A
Friction factor:	N/A
TDH:	N/A
Pump Run:	N/A
Threaded Union:	N/A
Gate Valves:	N/A
Check Valves:	N/A
Anti-Siphon Hole:	N/A
Design flow:	**480**
Trench Bottom:	**1608**
Number of fields	**1**
Supply line length	**5**
Draw down:	**N/A**
Comments:	Soil suitability performed by Michael Athanas & Associates

*Pump tank draw down based on 21 gallons per inch. Draw down may vary depending on tank manufacturers.


C156
73.58'
70'
60'
94 'SETBACK
DRIVE
1 R 2.4 90'
2 0 3.7 75'
3 B 4.2 65'
4 P 5.3 54'
5 R 6.2 43'
6 0 7.0 31'
7 B 7.9 28'
8 P 7.9 28'
9 R 9.8 26'
Fill Gulley
PROPOSED HOUSE
42" RCP
ST
1 G 68'
2 0 104'
3 B 90'
4 G 72'
5 0 73'
6 B 73'
7 P 73'
B1
B2
B3
B4
P1
P2
P3
P4
P5
86
N 03°01'44" W
434.04'
1"=50'
OFF SITE
REPAIR
FES
L182
L188
Approved
10-28-10
ICHD
gm
OFF
REP