10-02-13
Pd. $750.00
limited redraw
(Fast Track)



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 Lot 281 Point SD, Phase 3
House Footprint: See attached
Building Setbacks: 50' front/lake, 20' side
Water Source: Community well
Number of Bedrooms: 4/480 GPD
Proposed LTAR: 0.3 GPD/FT2
Proposed System Type: 25% Reduction
Proposed Repair System Type: PPBPS
Distribution: Pressure Manifold
Flow per Tap: 5.48 GPM
Tap Size & Material: ½" SCH 80
System Flow: 27.4 GPM
Dosing Volume: 175 gallons
Pump Run Time: 6.4 minutes
Elevation Head: 36.8'
Friction Head: 4'
Pressure Head: 2'
Total Dynamic Head: 42.8
Supply Line Length: 215'
Septic/Pump Tank Size: 1500/1000 gallons
Proposed Trench Bottom: 36"

Line	Design Length	Actual Length	Elevation
Pink 1		50'	3.0'
Blue 2		67'	4.7'
Orange 3	**80'**	**85'**	**5.6'**
Pink 4	**80'**	**97'**	**6.6'**
Blue 5	**80'**	**115'**	**7.7'**
Orange 6	**80'**	**120'**	**9.2'**
Pink 7	**80'**	**96'**	**10.4'**
Blue 8		125'	11.2'
Pink 9		80'	12.6'

Initial System: 400' **Repair System:** 322'
Pump tank: 35.4' **House corner:** 17' **Benchmark:** 4.8'

Comments:

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

PROPERTY ID #: _____
COUNTY: Iredell

SOIL/SITE EVALUATION
for ON-SITE WASTEWATER SYSTEM

OWNER: N/A APPLICATION DATE: 11-26-12
ADDRESS :N/A DATE EVALUATED: 11-15-12
PROPOSED FACILITY: 5 BEDROOM PROPOSED DESIGN FLOW (.1949): 600GPD PROPERTY SIZE: 1.22
LOCATION OF SITE: Lot 281 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 8-10%	0-15	BR SL GR	VFR SS/SP SEXP		48"			PS .3
		15-38	R C SBK	FR SS/SP SEXP					
		38-48	R CL SBK	FR SS/SP SEXP					
2	LS 10%	0-3	BR SL GR	VFR SS/SP SEXP		48"			PS .3+
		3-30	R C SBK	FR SS/SP SEXP					
		30-48	R CL SBK	FR SS/SP SEXP					
3	LS 8%	0-3	BR SL GR	VFR SS/SP SEXP		48"			PS .3+
		3-28	R C SBK	FR SS/SP SEXP					
		28-48	R CL SBK	FR SS/SP SEXP					
4	LS 7%	0-5	BR SL GR	VFR SS/SP SEXP		48"			PS .3+
		5-32	R C SBK	FR SS/SP SEXP					
		32-48	R CL SBK	FR SS/SP SEXP					

DESCRIPTION	INITIAL SYSTEM	REPAIR SYSTEM
Available Space (.1945)	1500FT2	1128FT2
System Type(s)	25% RED	PPBPS
Site LTAR	.3	.3

OTHER FACTORS (.1946): PREVIOUSLY PERMITTED
SITE CLASSIFICATION (.1948): PS
EVALUATED BY: MA&ASSOC. INC. Approved ICHD 12-5-12
OTHER(S) PRESENT: _____

COMMENTS: _____

SOIL/SITE EVALUATION

(Continuation Sheet)

DEPARTMENT OF ENVIRONMENT
AND NATURAL RESOURCES
DIVISION OF ENVIRONMENTAL HEALTH

PROPERTY ID #: ______________
DATE OF EVALUATION: ______________
COUNTY: Iredell______________

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	
5	LS 8%	0-18	BR SL/SCL WSBK	FR SS/SP SEXP					PS .3
		18-40	R C WSBK	FR SS/SP SEXP		48"			
		40-48	R CL SBK	FR SS/SP SEXP					

COMMENTS: ______________

IRONMENTAL HEALTH
WATER SECTION

PROPERTY ID #: _____
COUNTY: _____

SOIL/SITE EVALUATION
for ON-SITE WASTEWATER SYSTEM

CRI

APPLICANT: _____

S: _____ APPLICATION DATE: _____ DATE EVALUATED: 3-12-99

SED FACILITY: _____ PROPOSED DESIGN FLOW (.1949): _____ PROPERTY SIZE: _____

TION OF SITE: Lot 281 phase 3 The Pt. PROPERTY RECORDED: _____

ER SUPPLY: ☐ Private ☐ Public ☐ Well ☐ Spring ☐ Other _____

ALUATION METHOD: ☐ Auger Boring ☐ Pit ☐ Cut

PE OF WASTEWATER: ☐ Sewage ☐ Industrial Process ☐ Mixed

PROFILE #	.1940 LANDSCAPE POSITION/ SLOPE %	HORIZON DEPTH (IN.)	SOIL MORPHOLOGY (.1941) .1941 STRUCTURE/ TEXTURE	.1941 CONSISTENCE/ MINERALOGY	OTHER PROFILE FACTORS .1942 SOIL WETNESS/ COLOR	.1943 SOIL DEPTH	.1956 SAPRO CLASS	.1944 RESTR HORIZ	PROFILE CLASS & LTAR
1		0-15	gr brn SL fr					few	PS .25-.3
		15-46	sbk red clay fr/sp common manganese coatings/concretions						
		46-60	MOTT RCL fr/sp/sbp						
2		0-5	SL						PS .34
		5-25	mott RC	fr/sp					
		25-60	mott YCL fr/sp/sbp						

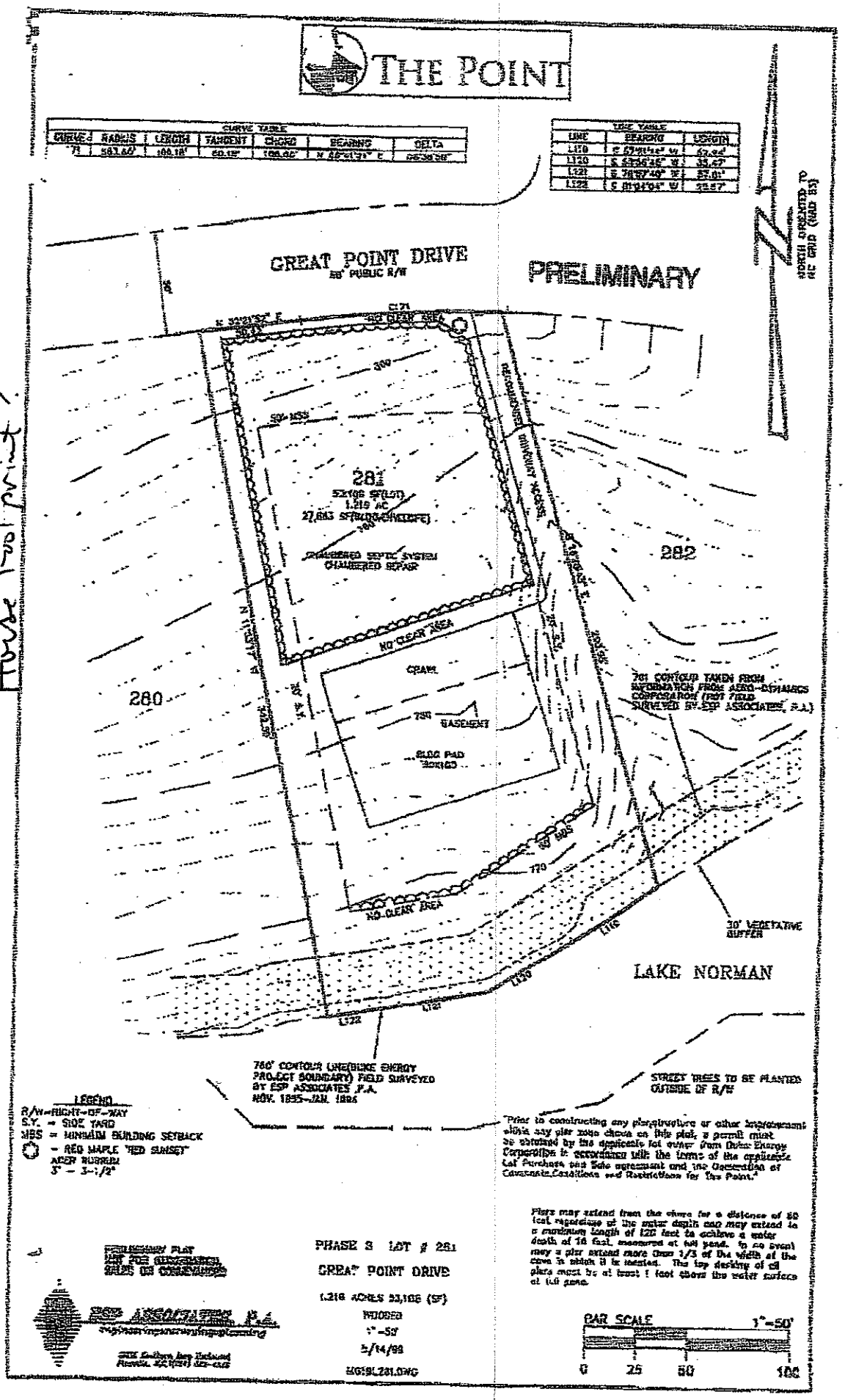
DESCRIPTION	INITIAL SYSTEM	REPAIR SYSTEM
ailable Space (.1945)		
stem Type(s)		
= LTAR		

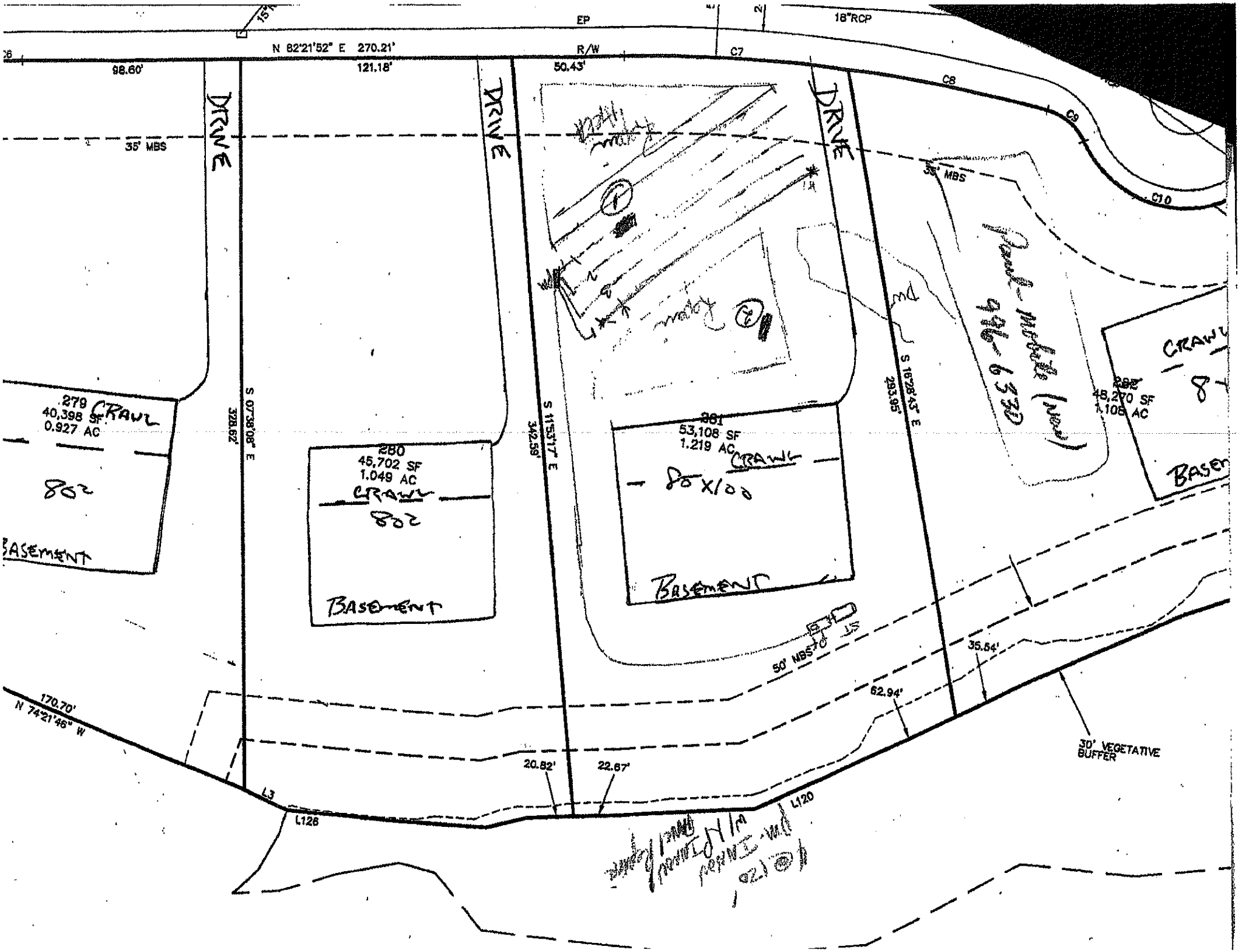
OTHER FACTORS (.1946): _____

SITE CLASSIFICATION (.1948): _____

EVALUATED BY: _____

OTHER(S) PRESENT: _____


THE POINT
PRELIMINARY
GREAT POINT DRIVE
66' PUBLIC R/W
281
1.216 AC
281
282
280
NO CLEAR AREA
CRAWL
BASEMENT
BLDG PAD
LAKE NORMAL
30' VEGETATIVE BUFFER
STREET TREES TO BE PLANTED OUTSIDE OF R/W
LEGEND
R/W=RIGHT-OF-WAY
S.Y. = SIDE YARD
MBS = MINIMUM BUILDING SETBACK
PHASE 3 LOT # 281
GREAT POINT DRIVE
1.216 ACRES 53,106 (SF)
RHODES
1"=50'
5/14/98
LG19L281.DWG
PAR SCALE 1"=50'
0 25 50 100


EP
18"RCP
N 82°21'52" E 270.21'
R/W
98.60'
121.18'
50.43'
C7
C8
C9
C10
35' MBS
DRIVE
DRIVE
DRIVE
279
40,398 SF
0.927 AC
CRAWL
802
BASEMENT
S 07°39'38" E
328.62'
280
45,702 SF
1.049 AC
CRAWL
802
BASEMENT
S 11°53'17" E
342.59'
281
53,108 SF
1.219 AC
CRAWL
80x100
BASEMENT
S 16°28'43" E
293.95'
50' MBS
35.54'
62.94'
30' VEGETATIVE BUFFER
170.70'
N 74°21'46" W
L3
L126
20.82'
22.67'
L120
Park Model (New)
96-633
CRAWL
BASEMENT