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216 Sunstede Drive Fast Track

Number of Bedrooms	**4**
Basement or Crawl	**Basement with Plumbi**
Design Flow (gpd)	**480**
Primary System LTAR (gpd/ft2)	**0.3**
Primary System Type	**25% Reduction**
No. Lines	4 (See Table)
Total Linear Feet	400
Trench Width	3' min.
Trench Spacing	9' min.
Trench Depth (low side)	18"
Pump Required	Yes
Distribution Device	Pressure Manifold
Maintenance Agreement Required	No
Length and Diameter of Supply Pipe	390' of 2" SCH 40 P\
Flow Rate through the system	22 gpm
Elevation head	Approx. 19.7'
Pressure head	2.0'
Friction head	5.0'
20% Contingency	5.3'
Total Head	32'
Pump Requirements	22 gpm @ 32' of hea To be designed by ir
Maximum Dosing Volume	240 gal -2.0 doses/d
Volume of water pumped per dose	Calculated to specifi measure or dealer e specifications (1 cub equals 7.48 gal.)
Pump Run per dose	approx.10.9 min.
Repair System	**LP PPBPS**
Total Linear Feet	339
Repair Loading Rate	0.25

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Table: Summary of Primary and Repair Nitrification Line Specif

Line No.	Use	Line Color	System Type	Line Length (Ft.)	Elevation (Ft.)
1	Repair	Orange	LP PPBPS	100	4.5
2	System	Red	25% Reduction	100 endfed	
3	System	Pink	25% Reduction	100 endfed	
4	Repair	Orange	LP PPBPS	61	
5	Repair	Red	LP PPBPS	28	
6	Repair	Pink	LP PPBPS	56	
7	System	Red	25% Reduction	100 endfed	
8	System	Pink	25% Reduction	100 endfed	
9	Repair	Red	LP PPBPS	94	
				Total System: 400'	
				Total Repair: 339'	

Tank	Red	1000 gal (2 compartment)	18.2
Pump Tank	Red	1000 gal.	
House	Blue		

Manifold Information	
Tap Size (In.)	1/2
Tap Material	SCH 80 PVC
No. Taps	4
Barrel Size (In.)	4
Barrel Material	SCH 80 PVC
Flow (gpm)/Tap	5.5

Note: **Actual placement of the supply line/tanks/PM can be altered at the ICHD and i discretion**
Elevations and calculations should be verified and adjusted (if needed) prior t installation
Sleeve pipe in ductile iron when in 50 ft lake buffer and/or when < 50 ft from a
Install 30+" deep under driveways or sleeve in ductile iron
Keep 18+" separation between supply line and water line when crossing, and supply line under water line

and seal on the 4, day of JUNE, A.D. 20 14.

WILLIAM M. ALLEN, PLS

NORTH CAROLINA PROFESSIONAL SEAL L3499 LAND SURVEYOR WILLIAM M. ALLEN

CURVE TABLE			
US	LENGTH	BEARING	CHORD
00'	58.88'	N 85°23'49" E	57.16'
00'	23.65'	N 84°04'09" W	23.43'
66'	34.31'	S 16°21'45" E	34.04'

E TABLE	
BEARING	LENGTH
20°42'00" E	38.08'
69°46'00" E	54.85'
67°59'00" E	106.14'
31°18'00" W	9.38'
28°43'00" W	62.53'
04°00'00" W	86.75'
35°55'31" E	29.96'

LAKE NORMAN

DUKE POWER PIER PROJECTION LINE

EIP ON LINE (0.92')

DUKE POWER PIER PROJECTION LINE

EIP

760 CONTOUR PER ACTUAL SURVEY

L1

L2

L3

IPS

CONC. RAMP

761 CONTOUR (FLOOD LINE)

LOT 286
JOHN V. WERNER
1597\829

184.47'

15' SIDE SETBACK

50' SETBACK

54.3'

223.44'

S08°45'00"W
345.53' TOTAL

BASE BEARING
N11°13'00"E

R\W

(TIE)
L7

EIP

51.9'

35' FRONT SETBACK

FOUNDATION

45.7

40.5

24.8

14.5

7.8

16.8

7.0

18.0

2.2

46.0

12.8

24.8

56.1

69.8

Driveway

Add Repair

L6

EIP

15' SIDE SETBACK

LOT 285
1.05 AC.

LOT 284
KEVIN C. CUDDIHY
2001\1750

122.09'

IPS

C3

P 56' Rep

R 100'

R 94' Rep

L5

C2

C1

L4

IPS

R\W

STRAWPOCKET LN.
(60' PUBLIC R\W)

SUNSTEDE DR.
(60' PUBLIC R\W)

SITE

SUNSTEDE

BRAWLEY SCHOOL RD.

TUSKARORA TRAIL

VICINITY MAP***NO SCALE

50' 100'

FEET

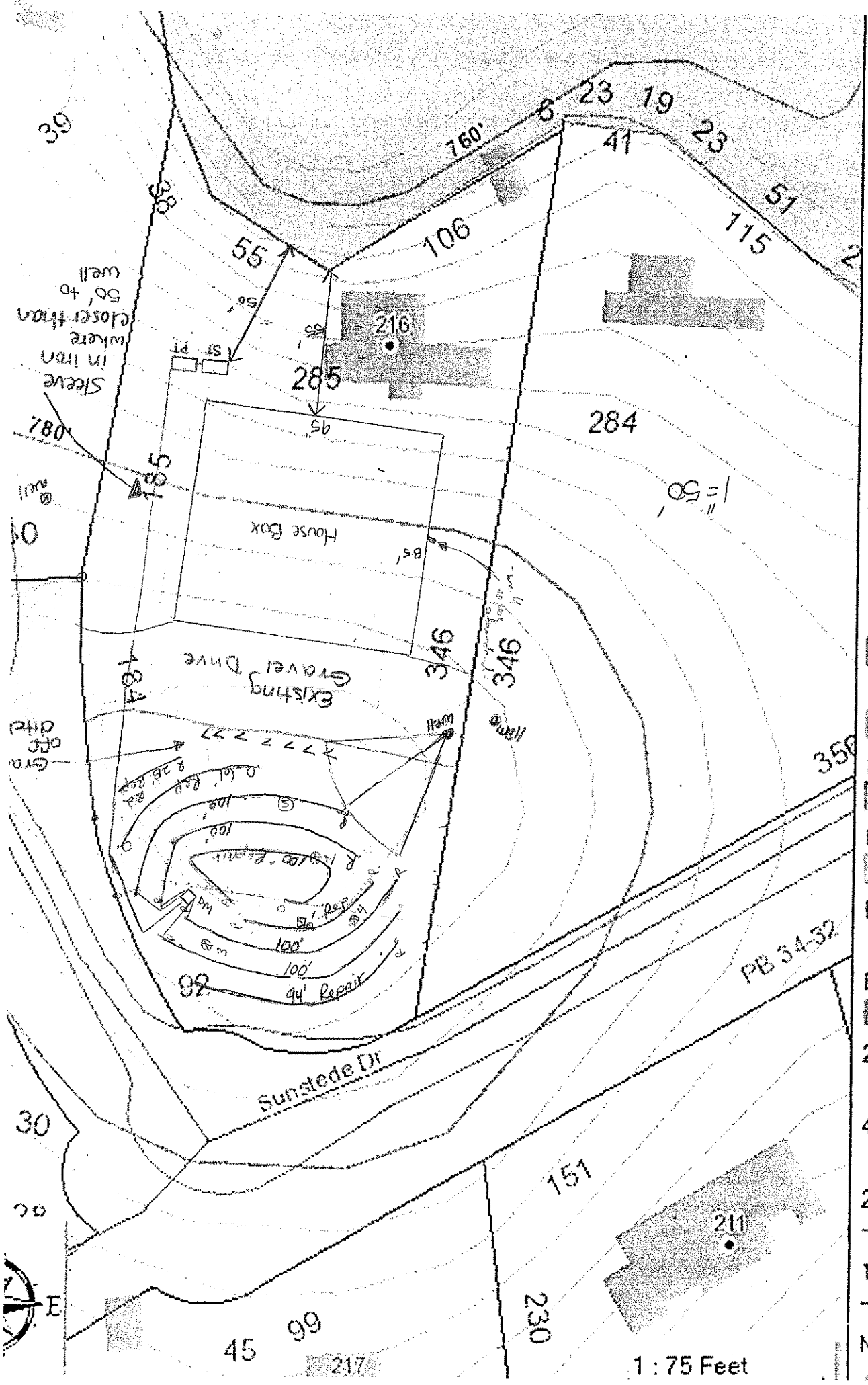
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NOTES

TY MAY BE SUBJECT TO
NT AND/OR RIGHTS-OF-WAY

* Sleeve pipe in ductile iron when in 50' buffer and < 50' from a well
* Install 30" under drive
* Keep 18" separation between supply line & water line w/ supply line line under water

216 Sunstede
Lt 5 Lot 285


Streets
Interstate
Ramp
US Hwy
State Hwy
Main Road
Local Road
Residential
Private
Inactive
City Limits
Parcels Hooks
Parcels
Lake Norman
Iredell Countyline
NC Counties
Edge of Paveme
Building 2005
2ft Contours
4ft Contours
20ft Contours - C
100ft Contours -
NGS XY Close
1 : 75 Feet
Sunstede Dr
PB 34-32
Existing Gravel Drive
House Box
216
285
284
211
217
160'
106
115
346
350
230
151
99
45
92
30
39
180'
95'
100'
94' Repair
Sleeve in line where closer than 50' to well

Project #:
Property ID #:
County: Iredell

SOIL/SITE EVALUATION

Sheet:
Date Evaluated: 5/17/31

Owner or Client: Sandy Godfrey Allen Tate
Proposed Facility: House Design Flow: 480
Location of Site: 216 Sunstede Dr
Soil Described By: KMS Others Present:
Antecedent Moisture: Weather:

Property Size:
Site LTAR: Int. 0.3 Rep. 0.25
Site Classification: PS

Water Supply: [ ] Public [ ] Community [ ] On-Site Well [ ] Spring [ ] Other
Evaluation Method: [X] Auger Boring [ ] Pit [ ] Cut
Type of Wastewater: [ ] Sewage [ ] Industrial Process [ ] Mixed

PROFILE #	Landscape Position/ Slope%	Horizon Depth (IN.)	SOIL MORPHOLOGY Structure/ Texture	SOIL MORPHOLOGY Consistence Mineralogy	PROFILE FACTORS Inclusions	PROFILE FACTORS Matrix Color	PROFILE FACTORS Mottles	PROFILE FACTORS Profile Notes (Restr Hortz, Soil Depth, Coarse Frag, etc...)	Profile Class & LTAR
1	S 0-2%	0-5	WK SBK SCL	FR SS/SP		Red Br			0.3 to 36" 0.25 Below
		5-36	Mo SBK C	FR SS/SP		Red			
		36-45	WK SBK C	FR SS/SP		Red	C yel Br		
		45"	2 chroma						
2	L 2%	0-5	WK SBK SCL	FR SS/SP		R Br			0.3 to 36" 0.275 Below
		5-34	Mo SBK C	FR SS/SP		Red			
		34-36	WK SBK CL	FR SS/SP		Red			
		36-46	WK SBK CL	FR SS/SP		Red	F yel Br		
3	L	0-5	WK SBK SCL	FR SS/SP		R Br			0.3 to 32" 0.25 Below.
		5-32	Mo SBK C	FR SS/SP		Red			
		32-40	WK SBK C	FR SS/SP		Red	C yel Br		
		40"	2 Chroma						
4	L	0-2	Mo GR SCL	FR SS/SP		R Br			0.3
		2-48	Mo SBK C	FR SS/SP		Red			
5		0-4	SCL GR	fr SS PSe					.25
		4-34	C SBK/Mas	fr SS PS		R	YB - 4 chroma		
6									

COMMENTS: