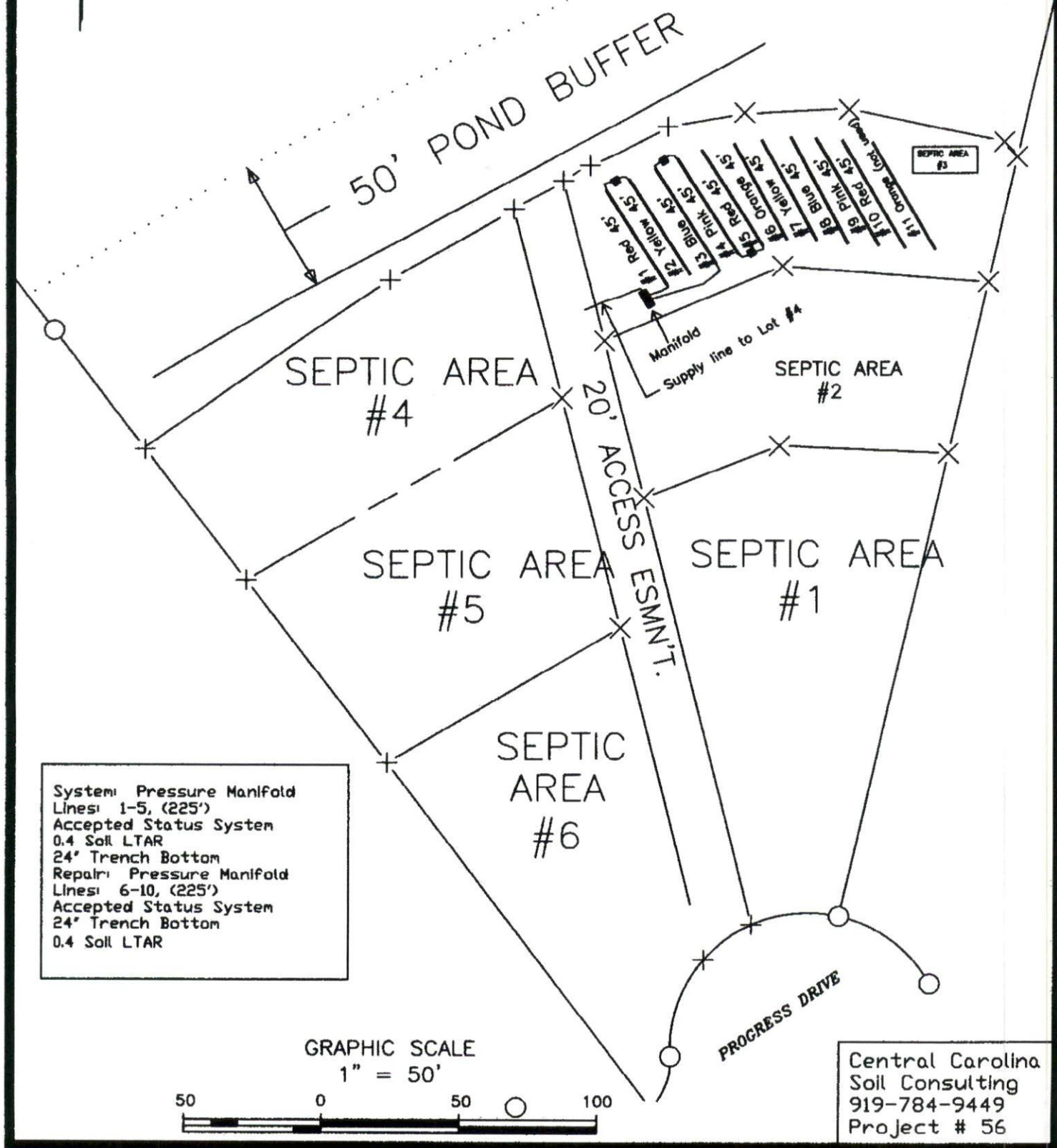
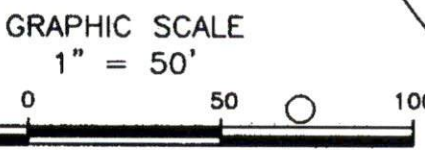


Duncan Industrial Park
 Lot #4 offsite to Septic Area #3
 Industrial Building
 Flow Rate < 350 gallons/day



System: Pressure Manifold
 Lines: 1-5, (225')
 Accepted Status System
 0.4 Soil LTAR
 24' Trench Bottom
 Repair: Pressure Manifold
 Lines: 6-10, (225')
 Accepted Status System
 24' Trench Bottom
 0.4 Soil LTAR



Central Carolina
 Soil Consulting
 919-784-9449
 Project # 56

**Duncan Industrial Park
Lot 4**

Industrial Building (Flow Rate up to 350 gallons/day)

<u>LINE #</u>	<u>COLOR</u>	<u>BS</u>	<u>HI</u>	<u>FS</u>	<u>ELEVATION</u>	<u>LINE LENGTH</u>	<u>Design Length</u>
TBM		12.0		100.0		<u>in field</u>	<u>installation</u>
INST. 1			112.0				
1	Red			2.7	109.3	45	45
2	Yellow			3.2	108.8	45	45
3	Blue			3.7	108.3	45	45
4	Pink			4.3	107.7	45	45
5	Red			4.9	107.1	45	45
6	Orange			5.5	106.5	45	45
7	Yellow			6.1	105.9	45	45
8	Blue			6.8	105.2	47	45
9	Pink			7.5	104.5	47	45
10	Red			8.3	103.7	47	45
11	Orange			9.0	103	47	not used
					Total	503	405

System Type	<u>System</u>	<u>Repair</u>
	Lines 1-5	Lines 6-10
	Accepted Status System EZ-FLOW	Accepted Status System EZ-FLOW
Suggested Soil LTAR (gal/day/ft ²)	0.4	0.4
System Installation LTAR	0.4	0.4
Total Line Length	225	225
Square Footage	675	675
Proposed Trench Bottom	24"	24"

Distribution Method Pressure Manifold Pressure Manifold

Notes: Supply line length to be determined once tank locations are established
 Line #1 will step down to Line #2
 Line #3 will step down to Line #4
 Line #4 will step down to Line #5

Sheet1

**Duncan Industrial Park
Lot #4 TAP CHART**

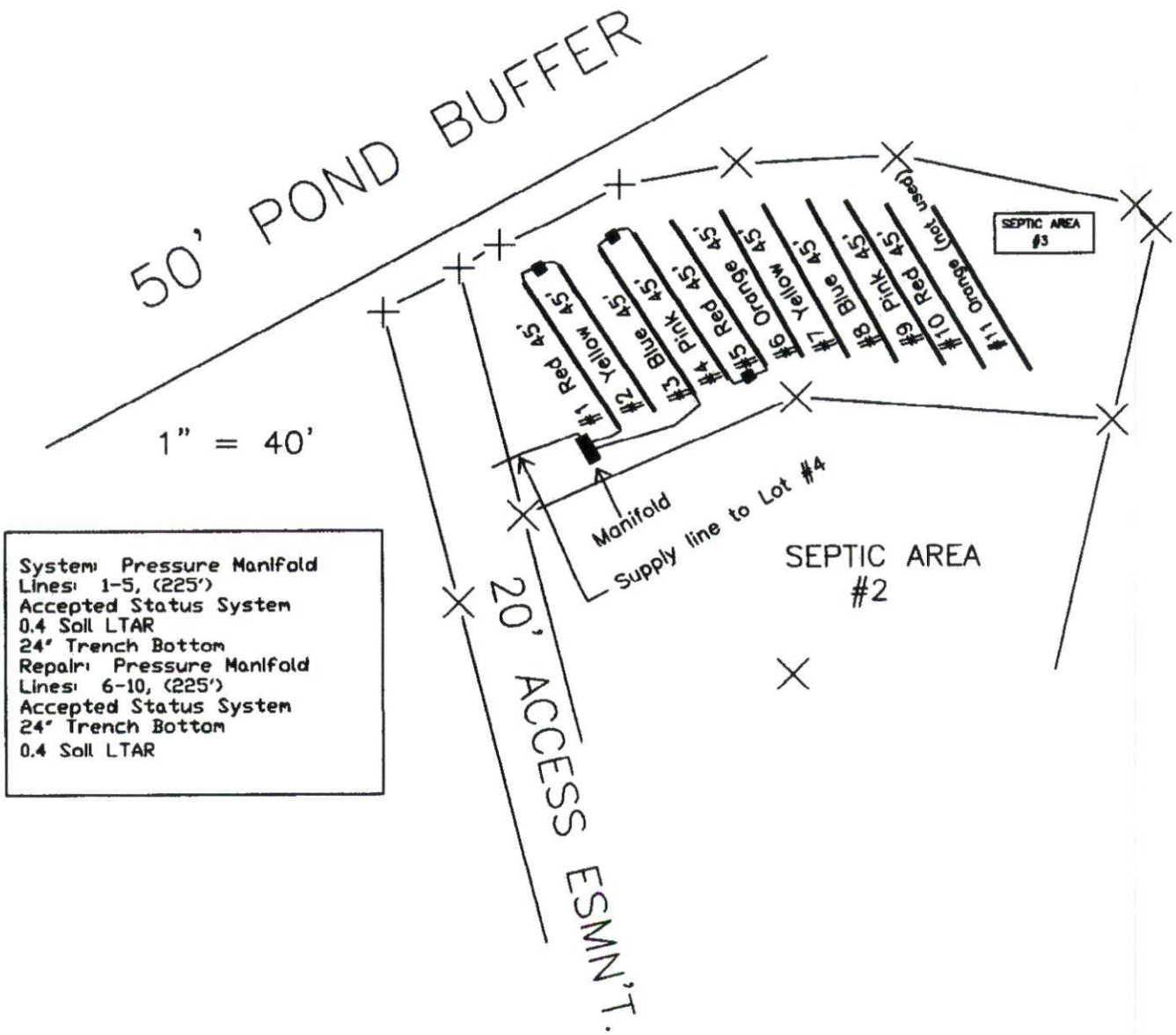
Bench Mark	12.00	is = 100.00	Location of BM			Elevation Head				9.80
Pump tank elev.	6.5	105.50	Pump elev.	100.50	Manifold elev.				110.30	
line	color	rod read	Elevation	length	hole size	flow/tap	gal/day	trench area	LINE LTAR	
1 & 2	Pink	2.70	109.30	90	1/2in SCH 40	7.11	148.73	270	0.5508	
3 & 4 & 5	Red	3.70	108.30	135	3/4in SCH 80	10.1	211.27	405	0.5217	

total feet = 225 gal/min = 17.21 LTAR = 0.4000

LTAR + %5 0.4200

% of Dose Vol.	70	<u>Des. Flow</u>	360	(ltar W/ INOV)	0.5333
Dose Volume	102.38	Pump Run=	20.92	(ltar W/ INOV + 5%	0.5600
Dose Pump Time	5.95	Tank Gal/IN	21		
Drawdown in Inches	4.88				

Duncan Industrial Park
 Lot #4 offsite to Septic Area #3
 Industrial Building
 Flow Rate < 350 gallons/day



System: Pressure Manifold
 Lines: 1-5, (225')
 Accepted Status System
 0.4 Soil LTAR
 24" Trench Bottom
 Repair: Pressure Manifold
 Lines: 6-10, (225')
 Accepted Status System
 24" Trench Bottom
 0.4 Soil LTAR

SCALE = 1" = 120' MARCH 16, 2005
 REVISED: SEPT 28, 2006 (PER COUNTY COM INTS)

MAULDIN - WATKINS SURVEYING, P.A.
 P.O. BOX 444 / 1301 W. BROAD ST.
 FUQUAY VARINA, NORTH CAROLINA 27526
 (919) 552-9326

JOB #2707
 CF:2707 PF:2707RM

COURSE	BEARING	DISTANCE
E1	N 13°57'25"W	126.50'
E2	N 13°57'25"W	88.09'
E3	N 13°57'25"W	72.38'
E4	N 13°57'25"W	162.86'
E5	N 13°57'25"W	60.02'
E6	N 13°57'25"W	61.50'
E7	N 54°44'10"E	108.85'
E8	N 59°45'03"E	52.16'
E9	N 59°26'16"E	133.10'
E10	N 59°26'16"E	98.40'
E11	N 59°45'03"E	20.84'
E12	N 59°45'03"E	11.11'
E13	N 62°54'04"E	31.88'
E14	N 79°24'00"E	28.26'
E15	N 88°22'06"E	37.83'
E16	S 77°50'26"E	57.89'
E17	S 39°57'35"E	7.30'
E18	N 66°33'58"E	70.53'
E19	S 85°23'40"E	74.92'
E20	N 68°25'23"E	52.82'
E21	S 87°24'47"E	61.24'



CURVE	RADIUS	LENGTH	CHORD	CH.BEARING
E-C1	50.00'	38.71'	37.75'	N 18°25'31"E
E-C2	50.00'	21.89'	21.71'	N 53°08'30"E
E-C3	50.00'	32.35'	31.79'	N 84°13'02"E

CURVE	RADIUS	LENGTH	CHORD	CH.BEARING
C15	255.00'	5.94'	5.94'	N 55°52'24"E
C16	255.00'	47.92'	47.85'	N 49°49'20"E
C17	25.00'	21.03'	20.41'	N 68°31'59"E
C18	50.00'	105.68'	87.08'	N 32°04'42"E
C19	50.00'	42.56'	41.29'	N 52°51'32"W
C20	50.00'	92.94'	80.13'	S 49°30'03"W
C21	25.00'	21.03'	20.41'	S 20°20'36"W
C22	205.00'	43.30'	43.22'	S 50°29'21"W
C23	230.00'	48.58'	48.49'	N 50°29'21"E

COURSE	BEARING	DISTANCE
L13	N 70°08'42"W	31.17'
L14	N 70°08'42"W	31.17'
L15	N 44°26'17"W	14.61'