Central Carolina Soil Consulting, PLLC
4024 Barrett Drive, Suite 201
Raleigh, NC 27609
919-784-9449

February 13, 2007
May 28, 2009 revision
Job # 326

Real Properties of Cary, LLC.
Attention: Brantley Powell
PO Box 5365
Cary, NC 27512

RE: Preliminary soil/site evaluation on ~105-acres (3 separate parcels) in Chatham County, NC known as Legend Oaks Phase III.

Dear Mr. Powell:

Central Carolina Soil Consulting, PLLC conducted a preliminary soil evaluation on the parcels listed above to determine the areas of soils that are suitable for subsurface wastewater disposal systems (conventional, LPP & subsurface drip for lot #3). The soil/site evaluation was performed with hand auger borings under moist soil conditions, based on the criteria found in the State Subsurface Rules, 15ANCAC 18A .1900 "Laws and Rules for Sewage Treatment and Disposal Systems". From this evaluation, CCSC sketched the boundary between the suitable soils and unsuitable soils onto an aerial and topographic map of the property. Additional soil evaluations were conducted on 26 lots in April and May of 2009 to complete detailed septic system layouts (see attached list). These lots were chosen for the detailed field evaluations due to the limited suitable soil areas and the potential inaccuracy of the soil line from the 2007 original soils evaluation on the property.

The above referenced parcels are located north of east of Highway 15-501 in northern Chatham County. This area lies in the mixed felsic and mafic geologic unit, where soils have formed from residual parent material such as gneiss, schist and diorites. The soils that have formed on this parcel are similar to the Appling, Wedowee, Durham, Helena and Worsham soil series. The attached soils map indicates the areas of suitable vs. unsuitable soils. The Appling, Wedowee and Durham soil series are generally suitable for subsurface wastewater systems. That is, the morphology of the soils contain suitable characteristics that would support subsurface septic systems such as sandy loam to clay textured subsoils that are not considered expansive, blocky structure and no indicators of restrictive characteristics within 24 inches of the soil surface. The Helena soils contain expansive clays and indicators of a perched water table within 24 inches of the soil surface. The Worsham soil series are located in the drainage ways and floodplain of the property and are unsuitable for subsurface septic systems.

The attached soils map indicates the areas of soils which are suitable for subsurface wastewater systems. The "hatched soil units" on the attached map indicates the areas of soils that have 30+ inches or more of suitable soil material. These areas have potential for conventional and modified conventional septic systems. There will be inclusions of soils that can only support LPP or ultra-shallow conventional septic systems in the areas mapped as conventional. The "cross hatched soil units" on the attached map indicate areas of soils with 24 to 29 inches of suitable soil material and have potential for LPP or ultra-shallow conventional septic systems. Unit "SSD" only noted on lot #3 contains areas of 18"-30" of suitable soil material that is potentially suitable for a subsurface drip wastewater disposal system. Unit "AR" indicates areas of soils that could not be evaluated with hand augers due to the dense amounts of rock in the soil profile. These areas will need backhoe pits to evaluate the soil and/or saprolite. Central Carolina Soil Consulting believes that there may be suitable soil and /or saprolite for septic systems in these soil units. Unit "UN" on the attached map indicates areas of unsuitable soils that are located in unsuitable soils or topography and cannot be used for the systems mentioned above.

Future Subdivision Considerations

Several factors should be considered before a final subdivision plan is created for any property. One consideration is that each proposed lot shall contain an adequate amount of suitable soils, which can support a primary septic system along with a repair septic system. The suitable soil areas cannot be affected by future homes, driveways, patios, excavation or filling activities and if an on-site well is used then a 100' setback is required around the well head. An exact square footage of suitable soils required per lot to obtain a permit cannot be given due to soil variability and topographic characteristics on each lot. The amount of suitable soils required to support a 4-bedroom residence will range between 10,000 ft2-15,000 ft2 (could be more or less) per lot. These soil area estimates are based upon soil application rates for a sandy clay loam to a clay textured subsoil with a range of 0.27 gallons per day/square foot and 0.4 gallons per day/square foot for conventional type systems 0.1 to 0.15 gallons per/day/square foot for low pressure pipe or subsurface drip septic systems. The ultimate application rate will be assigned by the Chatham County Health Department based on a detailed evaluation.

Septic system field layouts and additional soil evaluations were completed on approximately 26 lots on the proposed subdivision. During the field layouts CCSC personnel flagged the areas of the primary and repair drainfields to ensure each of these lots contained the minimum suitable soil areas to support a 3-5 bedroom house location (depending on the each lot) and the required initial and repair drainfields. Each of the 26 lots evaluated by CCSC had the property lines staked by the client's surveyor. The detailed site plans for these lots are attached and illustrate the location of the proposed house, daily flow rate along with the septic disposal areas. The remaining lots appear to contain enough suitable soils to support 3 or 4-bedroom houses, but may require a detailed field layout at a later date.

During the road construction process of a subdivision it is important not to impact any suitable soil areas with such activities as excavating or filling. Only the actual roadways

and required drainage ditches and/or sediment basins should be constructed during this process. If the contractor requires a staging area to place fill from the construction process, then areas of unsuitable soils on the property should be utilized as long as they are not state/county buffers, jurisdictional wetlands or other areas protected by local zoning regulations. If this is not possible, then the disturbed areas should be minimized as much as possible. The same precautions should be taken when the individual lots are cleared for home sites. Only the vegetation should be removed in the areas of the proposed drain fields on lots to prevent any disturbance of the naturally occurring soil. A lot with adequate areas of suitable soils can be deemed unsuitable due to poor planning or site disturbance. Central Carolina Soil Consulting recommends that all lot clearing activities are delayed until a permit is issued by the local health department, with the exception of clearing thick vegetation to access the lot.

This report discusses the location of suitable soils for subsurface wastewater disposal systems and does not guarantee any permits or approval required by the local health department. Please note that Central Carolina Soil Consulting only completed a preliminary soils evaluation on the parcel per the client's request and a more detailed evaluation may be required to maximize lot yield. Central Carolina Soil Consulting, PLLC is a professional consulting firm specializing in soil delineations and design for on-site wastewater disposal systems. The rules governing on-site wastewater disposal systems are complex and the interpretation of the rules are based upon the opinions of regulators (state and county level). Due to the subjective nature of the permitting process and the variability of naturally occurring soils, CCSC cannot guarantee that areas delineated as suitable for on-site wastewater disposal systems will be permitted by the governing agencies. Central Carolina Soil Consulting does not guarantee that the areas shown as potentially suitable for septic systems will be granted septic permits by the local health department. These permitting considerations should be taken into account before a financial commitment is made on a tract of land.

If you have any questions regarding the findings on the attached map or in this report, please feel free contact me at anytime. Thank you allowing Central Carolina Soil Consulting to perform this site evaluation for you.

Sincerely,

Jason Hall
NC Licensed Soil Scientist #1248

LICENSED SOIL SCIENTIST
JASON M. HALL
1248
STATE OF NORTH CAROLINA

9-25-09

Encl: Soil Map

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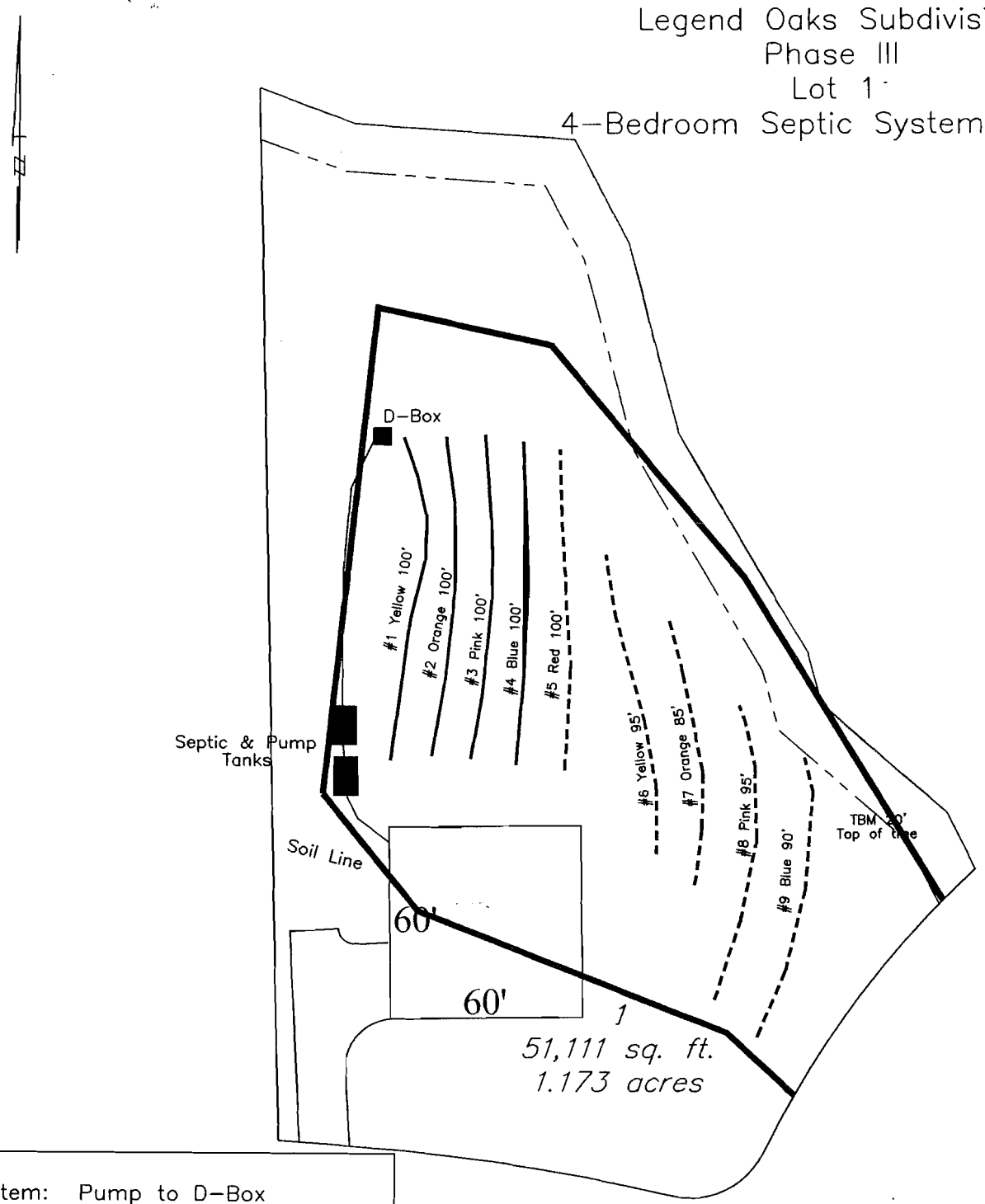
Legend Oaks Subdivision Phase III
Ft2 of suitable soils per lot

Lot #	Ft2 of Suitable Soils	Completed Field Layout
1	25,113	Yes
2	30,458	No
3	24,605	Yes
4	17,148	Yes
5	13,438	Yes
6	16,688	Yes
7	12,028	Yes
8	29,862	Yes
9	18,435	Yes
10	32,745	Yes
11	9,491	Yes
12	16,138	Yes
13	11,985	Yes
14	30,990	No
15	26,669	No
16	16,345	Yes
17	47,952	No
18	33,469	No
19	17,271	Yes
20	24,231	No
21	41,265	No
22	40,700	No
23	22,755	Yes
24	15,143	Yes
25	20,822	Yes
26	12,372	Yes
27	40,516	No
28	15,506	Yes
29	50,700	No
30	59,700	No
31	40,351	No
32	40,060	No
33	38,309	No
34	46,638	No
35	46,899	No

36	48,552	No
37	50,512	No
38	40,096	No
39	40,315	No
40	33,392	No
41	24,800	Yes
42	17,934	Yes
43	22,807	Yes
44	17,823	Yes
45	20,954	Yes
46	20,966	No
47	40,235	No
48	40,323	No
49	33,700	No
50	24,626	No
51	36,423	No
52	39,023	No
53	44,706	No
54	33,388	Yes
55	31,923	No
56	264,238	No
New lot/57?	12,805	Yes

Legend Oaks Subdivision
Phase III
Lot 1
4-Bedroom Septic System Layout



System: Pump to D-Box
Lines: 1-4, (400')
Accepted Status System
~~0.4~~ Soil LTAR 0.3
18" Trench Bottom
Repair: Pressure Manifold
Lines: 5-9, (470')
Accepted Status System
18" Trench Bottom
0.3 Soil LTAR

Site LTAR must be confirmed by local Health Department.
CCSC does not guarantee any permits or approvals.
Soil observations & septic system layouts based on opinions of CCSC personnel during field evaluations in April/May 2009.

GRAPHIC SCALE
1" = 50'
50 0 50 100

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Legend Oaks, Phase III

Lot #1

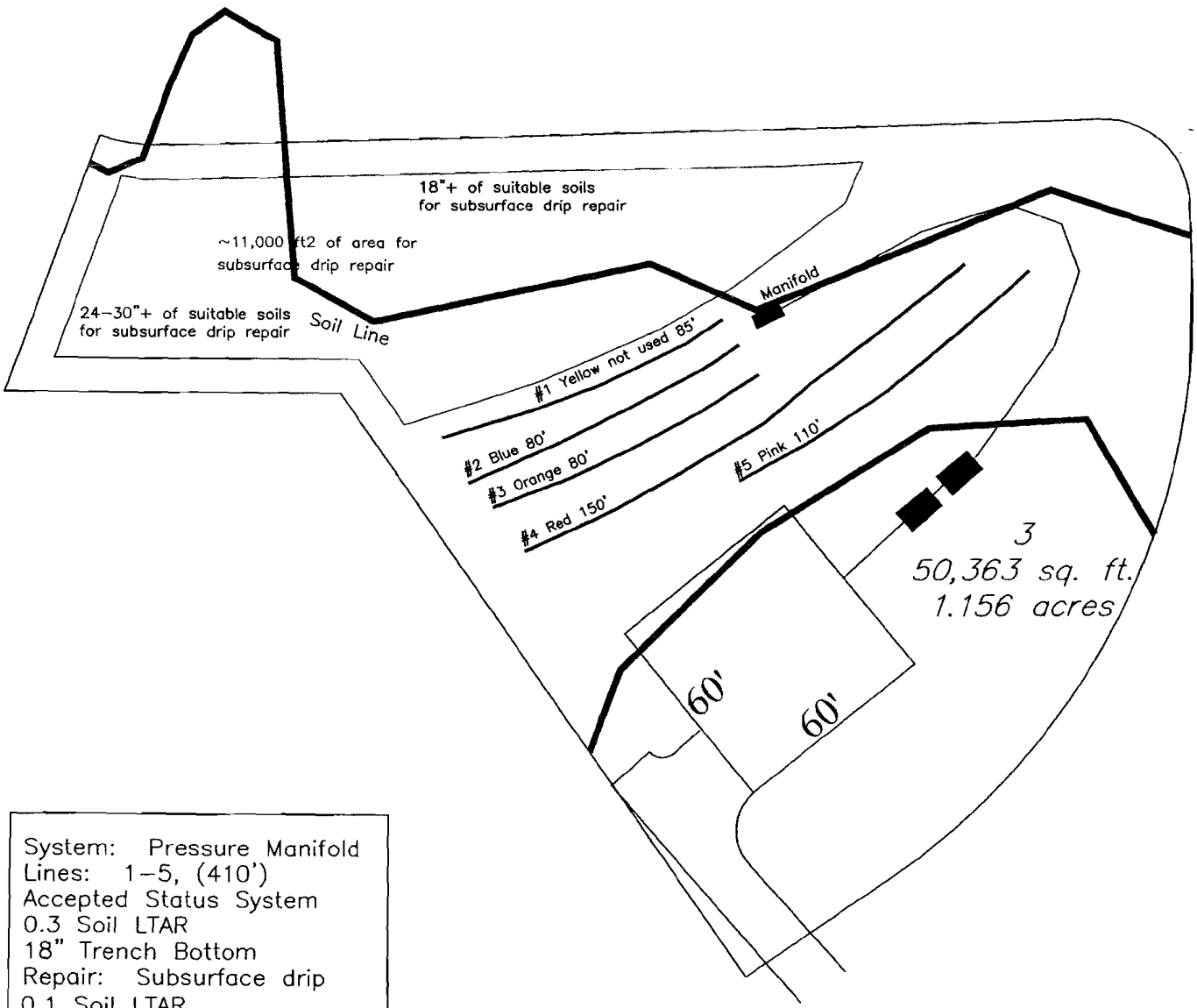
4-Bedroom Home (480 gal./day)

LINE #	COLOR	BS	HI	FS	ELEVATION	LINE LENGTH in field	Design Length installation
TBM		20.0		100.0			
INST. 1			120.0				
1	*Yellow*			*1.9*	*118.1*	*100*	*100*
2	*Orange*			*3.5*	*116.5*	*100*	*100*
3	*Pink*			*5.6*	*114.4*	*100*	*100*
4	*Blue*			*7.7*	*112.3*	*100*	*100*
5	Red			10.4	109.6	100	100
6	Yellow			12.5	107.5	95	95
7	Orange			14.6	105.4	85	95
8	Pink			16.6	103.4	97	95
9	Blue			19.4	100.6	90	90
					Total	**867**	**875**

	System	Repair
	Lines 1-4	Lines 5-9
System Type	Accepted Status System EZ-FLOW	Accepted Status System EZ-FLOW
Suggested Soil LTAR (gal/day/ft2)	0.30	0.30
System Installation LTAR	0.30	0.26
Total Line Length	400	470
Square Footage	1200	1410
Proposed Trench Bottom	18"	18"
Distribution Method	Pump to D-Box	Pressure Manifold

Notes: TBM is top of cut tree

Legend Oaks Subdivision
Phase III
Lot 3
4-Bedroom Septic System Layout



System: Pressure Manifold
Lines: 1-5, (410')
Accepted Status System
0.3 Soil LTAR
18" Trench Bottom
Repair: Subsurface drip
0.1 Soil LTAR

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Legend Oaks, Phase III

Lot #3

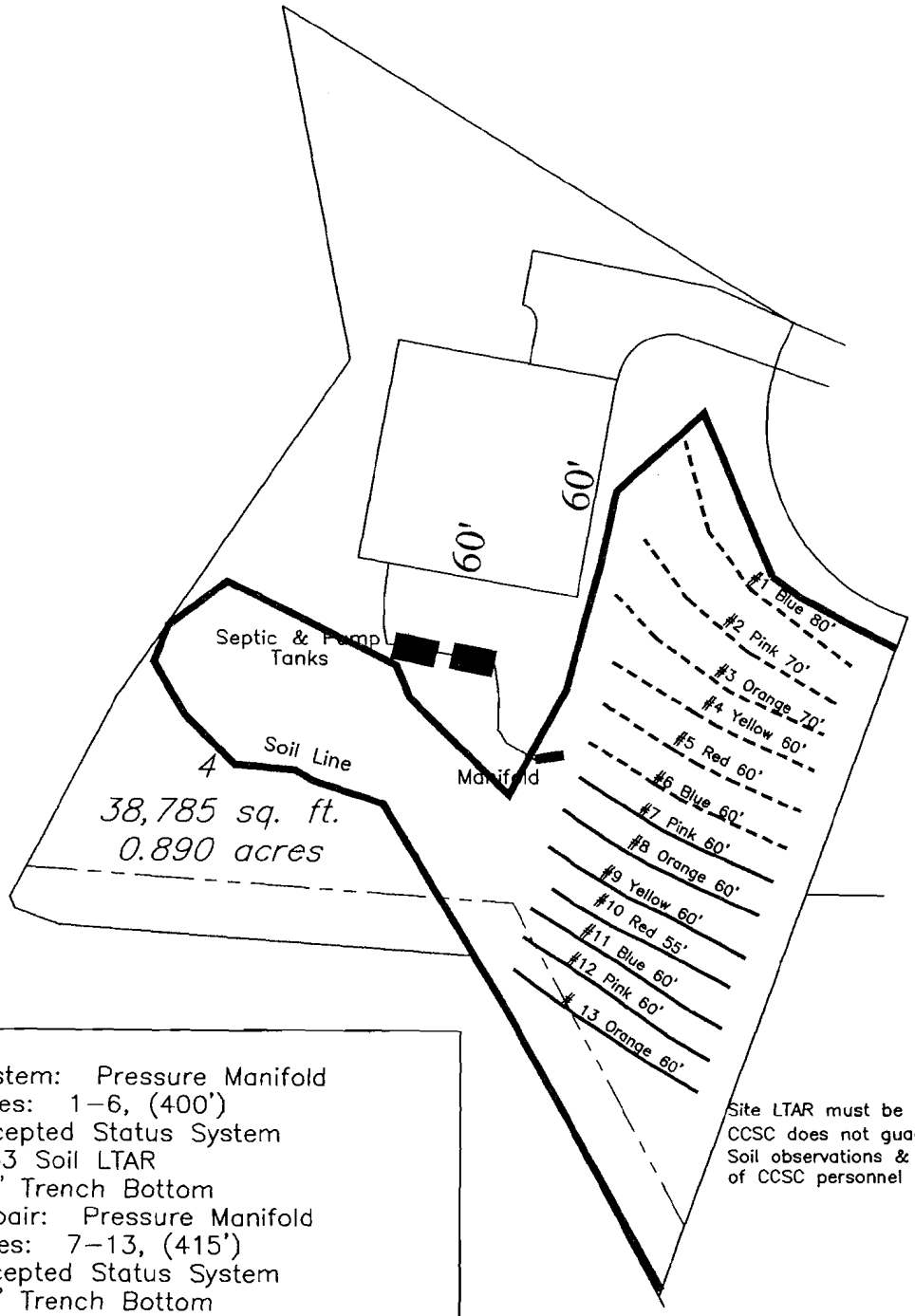
4-Bedroom Home (480 gal./day)

LINE #	COLOR	BS	HI	FS	ELEVATION	LINE LENGTH in field	Design Length installation
TBM		0.7		100.0			
INST. 1			100.7				
1	Yellow			2.5	98.2	85	not used
2	Blue			5.4	95.3	85	80
3	Orange			8	92.7	85	100
4	Red			10.5	90.2	150	150
5	Pink			13.9	86.8	110	80
					Total	**515**	**410**

	System	Repair
	Lines 1-5	Subsurface Drip
System Type	Accepted Status System EZ-FLOW	
Suggested Soil LTAR (gal/day/ft2)	0.30	0.1
System Installation LTAR	0.30	
Total Line Length	410	
Square Footage	1230	
Proposed Trench Bottom	18"	6"
Distribution Method	Pressure Manifold	Subsurface Drip

Notes: TBM is EIP on P-Line

Legend Oaks Subdivision
Phase III
Lot 4
4–Bedroom Septic System Layout



System: Pressure Manifold
Lines: 1–6, (400')
Accepted Status System
0.33 Soil LTAR
18" Trench Bottom
Repair: Pressure Manifold
Lines: 7–13, (415')
Accepted Status System
18" Trench Bottom
0.33 Soil LTAR

Site LTAR must be confirmed by local Health Department.
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Soil observations & septic system layouts based on opinions of CCSC personnel during field evaluations in April/May 2009.

GRAPHIC SCALE
1" = 50'

50 0 50 100

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Legend Oaks, Phase III

Lot #4

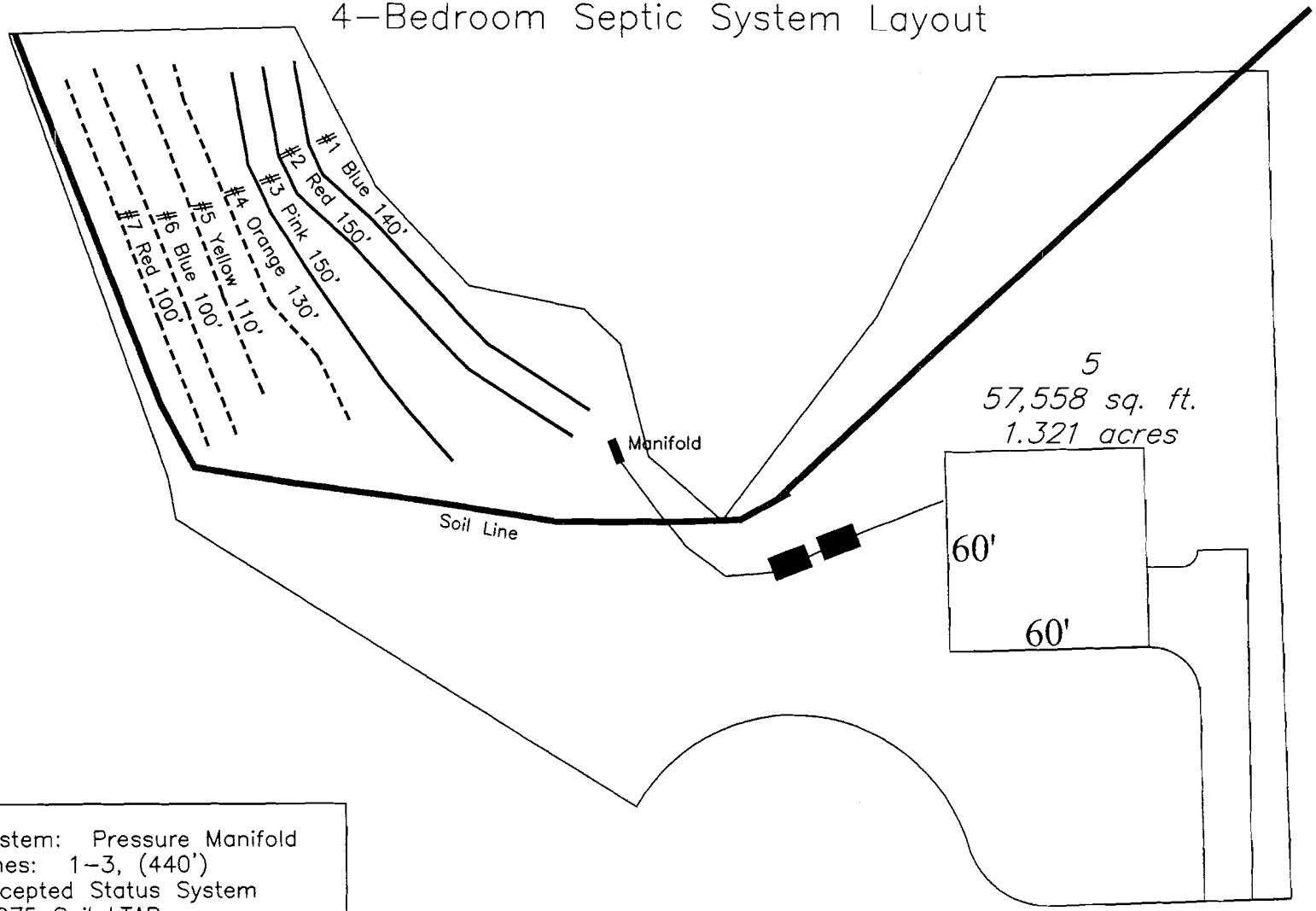
4-Bedroom Home (480 gal./day)

LINE #	COLOR	BS	HI	FS	ELEVATION	LINE LENGTH in field	Design Length installation
TBM		15.9		100.0			
INST. 1			115.9				
1	*Blue*			*2.5*	*113.4*	*80*	*80*
2	*Pink*			*3.5*	*112.4*	*78*	*70*
3	*Orange*			*4.7*	*111.2*	*72*	*70*
4	*Yellow*			*6*	*109.9*	*63*	*60*
5	*Red*			*7*	*108.9*	*64*	*60*
6	*Blue*			*8.8*	*107.1*	*66*	*60*
7	Pink			10.3	105.6	70	60
8	Orange			12.1	103.8	72	60
9	Yellow			13.3	102.6	61	60
10	Red			14.8	101.1	56	55
11	Blue			16.6	99.3	60	60
12	Pink			18.5	97.4	60	60
13	Orange			20.9	95	65	60
					Total	**867**	**815**

	System	Repair
	Lines 1-6	Lines 7-13
System Type	Accepted Status System EZ-FLOW	Accepted Status System EZ-FLOW
Suggested Soil LTAR (gal/day/ft2)	0.33	0.325
System Installation LTAR	0.30	0.29
Total Line Length	400	415
Square Footage	1200	1245
Proposed Trench Bottom	18"	18"
Distribution Method	Pressure Manifold	Pressure Manifold

Notes: TBM is cut tree on P-line

Legend Oaks Subdivision
Phase III
Lot 5
4-Bedroom Septic System Layout



System: Pressure Manifold
Lines: 1-3, (440')
Accepted Status System
0.275 Soil LTAR
12" Trench Bottom
Repair: Pressure Manifold
Lines: 4-7, (440')
Accepted Status System
12" Trench Bottom
0.275 Soil LTAR

GRAPHIC SCALE
1" = 50'

50 0 50 100

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Legend Oaks, Phase III

Lot #5

4-Bedroom Home (480 gal./day)

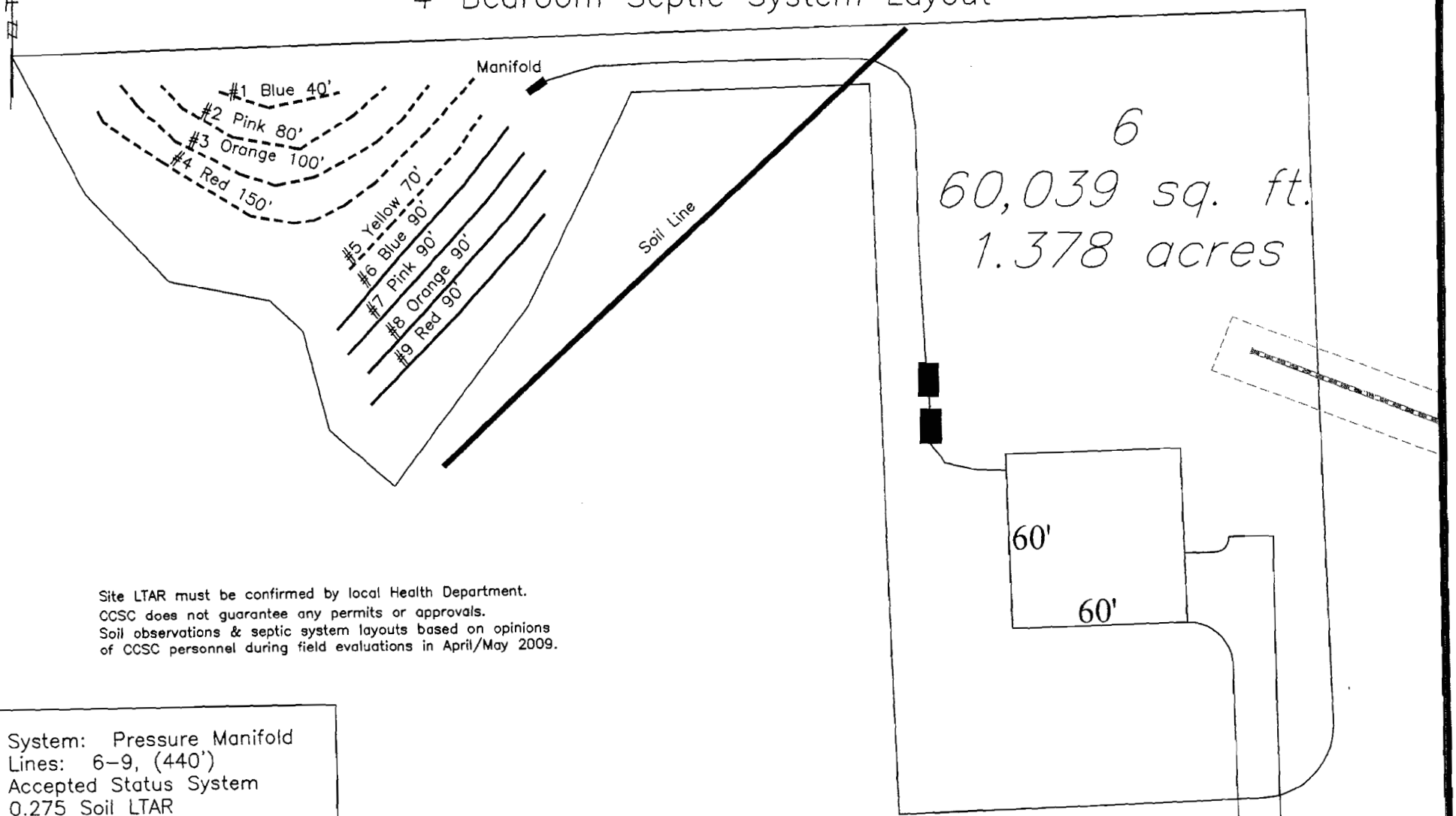
LINE #	COLOR	BS	HI	FS	ELEVATION	LINE LENGTH in field	Design Length installation
TBM		11.5		100.0			
INST. 1			111.5				
1	*Blue*			*5.2*	*106.3*	*141*	*140*
2	*Red*			*6.6*	*104.9*	*150*	*150*
3	*Pink*			*7.8*	*103.7*	*155*	*150*
4	Orange			9.3	102.2	161	130
5	Yellow			10.8	100.7	115	110
6	Blue			12.4	99.1	105	100
7	Red			14.0	97.5	100	100
					Total	**927**	**880**

	System	Repair
	Lines 1-3	Lines 4-7
System Type	Accepted Status System EZ-FLOW	Accepted Status System EZ-FLOW
Suggested Soil LTAR (gal/day/ft2)	0.28	0.275
System Installation LTAR	0.28	0.275
Total Line Length	440	440
Square Footage	1320	1320
Proposed Trench Bottom	12"	12"
Distribution Method	Pressure Manifold	Pressure Manifold

Notes: TBM is marked stump

**Change in Property Line

Legend Oaks Subdivision
Phase III
Lot 6
4-Bedroom Septic System Layout



Site LTAR must be confirmed by local Health Department.
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Soil observations & septic system layouts based on opinions of CCSC personnel during field evaluations in April/May 2009.

System: Pressure Manifold
Lines: 6-9, (440')
Accepted Status System
0.275 Soil LTAR
18-24" Trench Bottom
Repair: Pressure Manifold
Lines: 1-5, (420')
Accepted Status System
18-24" Trench Bottom
0.3 Soil LTAR

GRAPHIC SCALE
1" = 50'
50 0 50 100

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Legend Oaks, Phase III

Lot #6

4-Bedroom Home (480 gal./day)

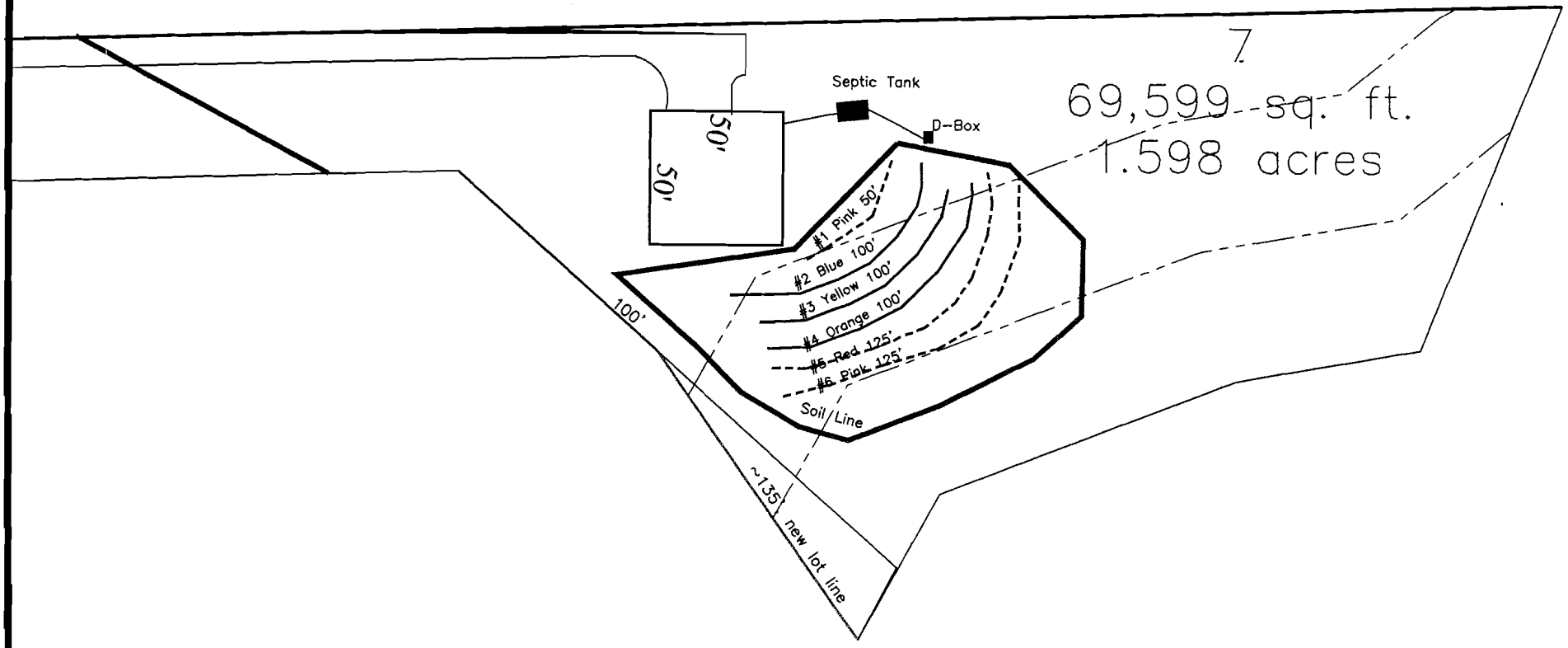
LINE #	COLOR	BS	HI	FS	ELEVATION	LINE LENGTH in field	Design Length installation
TBM		0.7		100.0			
INST. 1			100.7				
1	Blue			2.2	98.5	40	40
2	Pink			3.3	97.4	83	80
3	Orange			4	96.7	111	100
4	Red			5.1	95.6	153	150
5	Yellow			6.6	94.1	183	70
6	*Blue*			*8.0*	*92.7*	*91*	*90*
7	*Pink*			*9.6*	*91.1*	*100*	*90*
8	*Orange*			*11.4*	*89.3*	*121*	*120*
9	*Red*			*14.2*	*86.5*	*130*	*120*
					Total	**1012**	**860**

	System	Repair
	Lines 6-9	Lines 1-5
System Type	Accepted Status System EZ-FLOW	Accepted Status System EZ-FLOW
Suggested Soil LTAR (gal/day/ft2)	0.28	0.3
System Installation LTAR	0.28	0.28
Total Line Length	440	420
Square Footage	1320	1260
Proposed Trench Bottom	18-24"	18-24"
Distribution Method	Pressure Manifold	Pressure Manifold

Notes: TBM is EIP on P-Line

**Change in Property Line

Legend Oaks Subdivision
Phase III
Lot 7
3-Bedroom Septic System Layout



System: Gravity to D-Box
Lines: 2-4, (300')
Accepted Status System
0.3 Soil LTAR
18" Trench Bottom
Repair: Pressure Manifold
Lines: 1, 4-5, (300')
Accepted Status System
18" Trench Bottom
0.3 Soil LTAR

GRAPHIC SCALE
1" = 60'

60 0 60 120

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Legend Oaks, Phase III

Lot #7

3-Bedroom Home (360 gal./day)

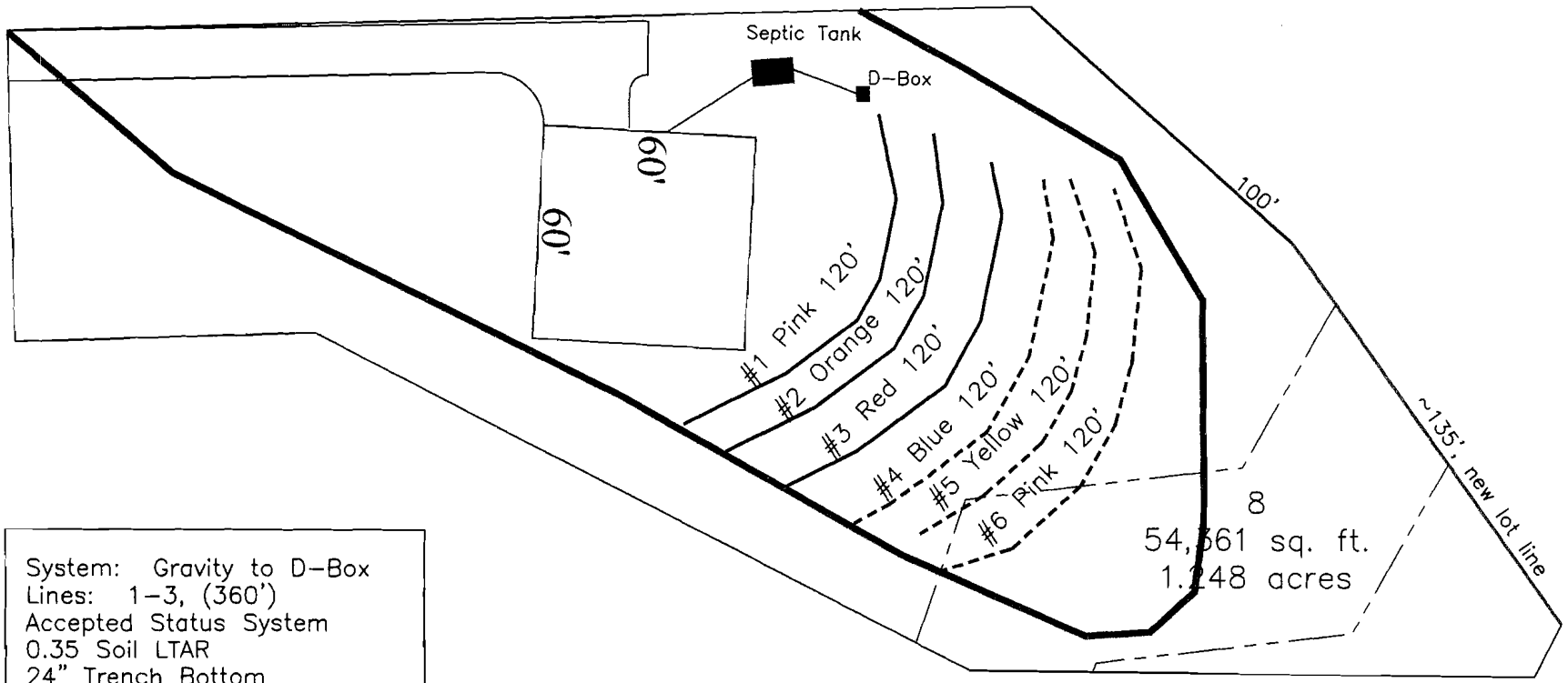
LINE #	COLOR	BS	HI	FS	ELEVATION	LINE LENGTH in field	Design Length installation
TBM		0.7		100.0			
INST. 1			100.7				
1	Pink			2.5	98.2	60	50
2	***Blue***			*4*	*96.7*	*105*	*100*
3	***Yellow***			*5.5*	*95.2*	*110*	*100*
4	***Orange***			*7*	*93.7*	*110*	*100*
5	Red			8.5	92.2	125	125
6	Pink			10	90.7	130	125
					Total	**640**	**600**

	System	Repair
	Lines 2-4	Lines 1,4,5
System Type	Accepted Status System EZ-FLOW	Accepted Status System EZ-FLOW
Suggested Soil LTAR (gal/day/ft2)	0.30	0.30
System Installation LTAR	0.30	0.30
Total Line Length	300	300
Square Footage	900	900
Proposed Trench Bottom	18"	24"
Distribution Method	Gravity to D-Box	Pressure Manifold

Notes: TBM is EIP on P-Line

**Change in Property Line

Legend Oaks Subdivision
Phase III
Lot 8
4-Bedroom Septic System Layout



System: Gravity to D-Box
Lines: 1-3, (360')
Accepted Status System
0.35 Soil LTAR
24" Trench Bottom
Repair: Gravity to D-Box
Lines: 4-6 (360')
Accepted Status System
24" Trench Bottom
0.35 Soil LTAR

GRAPHIC SCALE
1" = 50'
0 50 100

Site LTAR must be confirmed by local Health Department.
CCSC does not guarantee any permits or approvals.
Soil observations & septic system layouts based on opinions of CCSC personnel during field evaluations in April/May 2009.

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Legend Oaks, Phase III

Lot #8

4-Bedroom Home (480 gal./day)

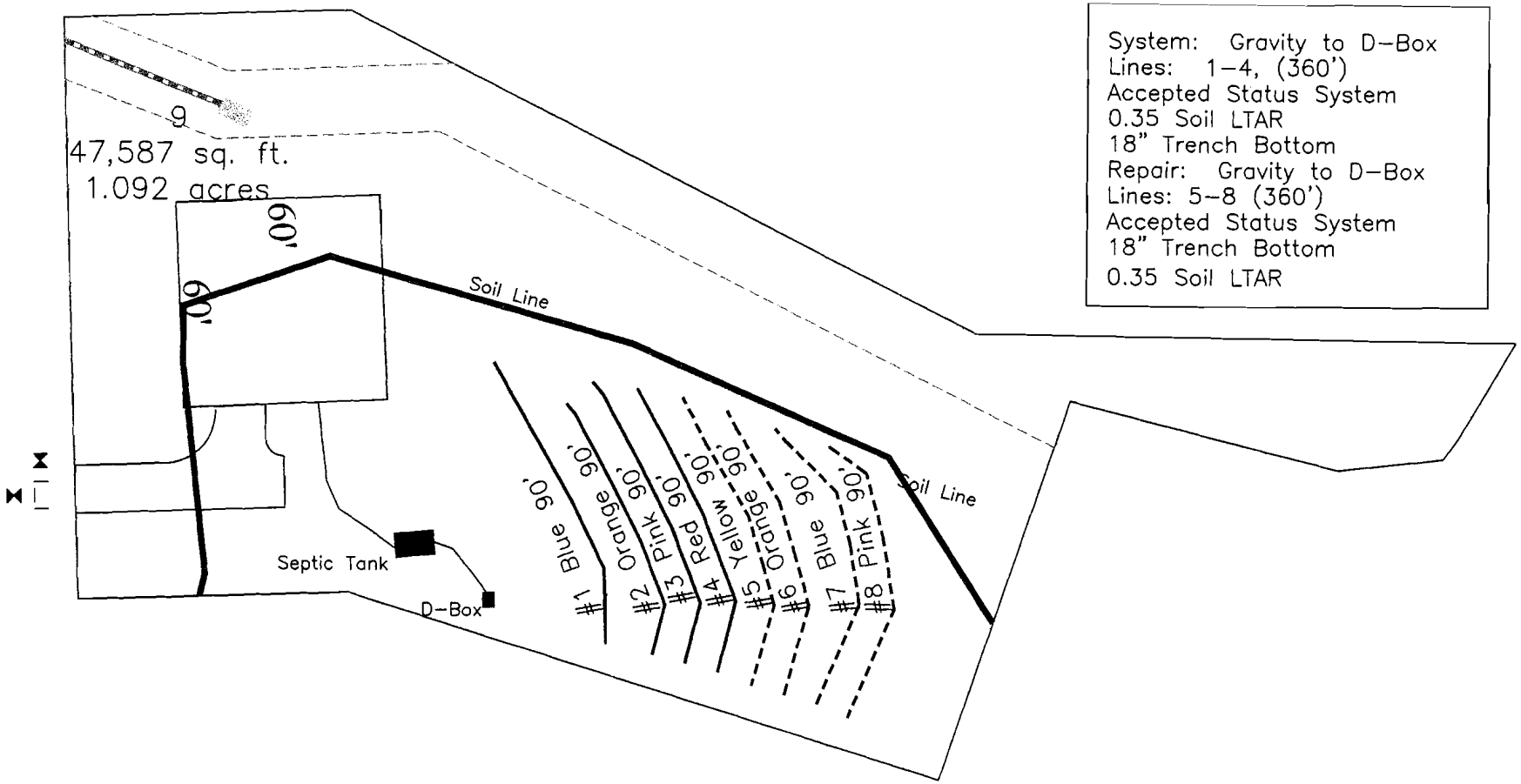
LINE #	COLOR	BS	HI	FS	ELEVATION	LINE LENGTH in field	Design Length installation
TBM		0.7		100.0			
INST. 1			100.7				
1	Yellow			0.8	98.5	122	120
2	Pink			2.2	96.6	130	120
3	Orange			4.1	95	155	120
4	*Red*			*5.7*	93.5	*150*	*120*
5	*Blue*			*7.2*	*91.8*	*130*	*120*
6	*Yellow*			*8.9*	*100.7*	*120*	*120*
					Total	**807**	**720**

	System	Repair
	Lines 4-6	Lines 1-3
System Type	Accepted Status System EZ-FLOW	Accepted Status System EZ-FLOW
Suggested Soil LTAR (gal/day/ft2)	0.35	0.35
System Installation LTAR	0.35	0.35
Total Line Length	360	360
Square Footage	1080	1080
Proposed Trench Bottom	24"	24"
Distribution Method	Gravity to D-Box	Gravity to D-Box

Notes: TBM is EIP on P-Line

**Has Potential to upgrade to 5-Bedroom

Legend Oaks Subdivision
Phase III
Lot 9
4-Bedroom Septic System Layout



System: Gravity to D-Box
Lines: 1-4, (360')
Accepted Status System
0.35 Soil LTAR
18" Trench Bottom
Repair: Gravity to D-Box
Lines: 5-8 (360')
Accepted Status System
18" Trench Bottom
0.35 Soil LTAR

GRAPHIC SCALE
1" = 50'
0 50 100

Site LTAR must be confirmed by local Health Department.
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Legend Oaks, Phase III

Lot #9

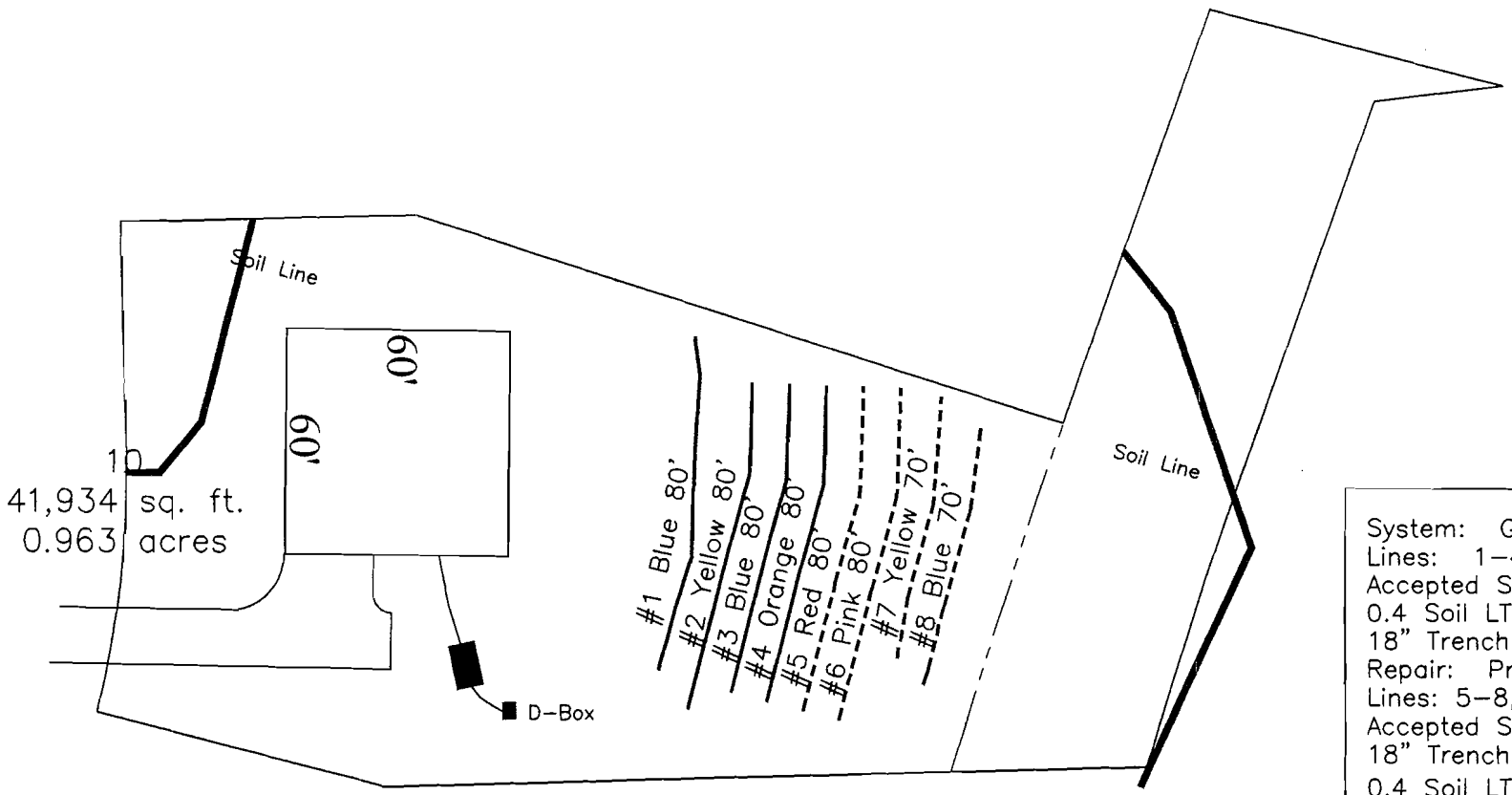
4-Bedroom Home (480 gal./day)

LINE #	COLOR	BS	HI	FS	ELEVATION	LINE LENGTH in field	Design Length installation
TBM		0.7		100.0			
INST. 1			100.7				
1	*Blue*			*1.8*	*96.2*	*90*	*90*
2	*Orange*			*4.5*	*93.7*	*90*	*90*
3	*Pink*			*7*	*91.2*	*90*	*90*
4	*Red*			*9.5*	88.7	*90*	*90*
5	Yellow			12	86.2	97	90
6	Orange			14.5	100.7	100	90
7	Blue			17.2	100.7	90	90
8	Pink			19.7	100.7	95	90
					Total	**742**	**720**

	System	Repair
	Lines 1-4	Lines 5-8
System Type	Accepted Status System EZ-FLOW	Accepted Status System EZ-FLOW
Suggested Soil LTAR (gal/day/ft2)	0.35	0.35
System Installation LTAR	0.35	0.35
Total Line Length	360	360
Square Footage	1080	1080
Proposed Trench Bottom	18"	18"
Distribution Method	Gravity to D-Box	Gravity to D-Box

Notes: TBM is EIP on P-Line

Legend Oaks Subdivision
Phase III
Lot 10
4-Bedroom Septic System Layout



System: Gravity to D-Box
Lines: 1-4, (320')
Accepted Status System
0.4 Soil LTAR
18" Trench Bottom
Repair: Pressure Manifold
Lines: 5-8, (300')
Accepted Status System
18" Trench Bottom
0.4 Soil LTAR

GRAPHIC SCALE
1" = 50'
50 0 50 100

Site LTAR must be confirmed by local Health Department.
CCSC does not guarantee any permits or approvals.
Soil observations & septic system layouts based on opinions of CCSC personnel during field evaluations in April/May 2009.

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Legend Oaks, Phase III

Lot #10

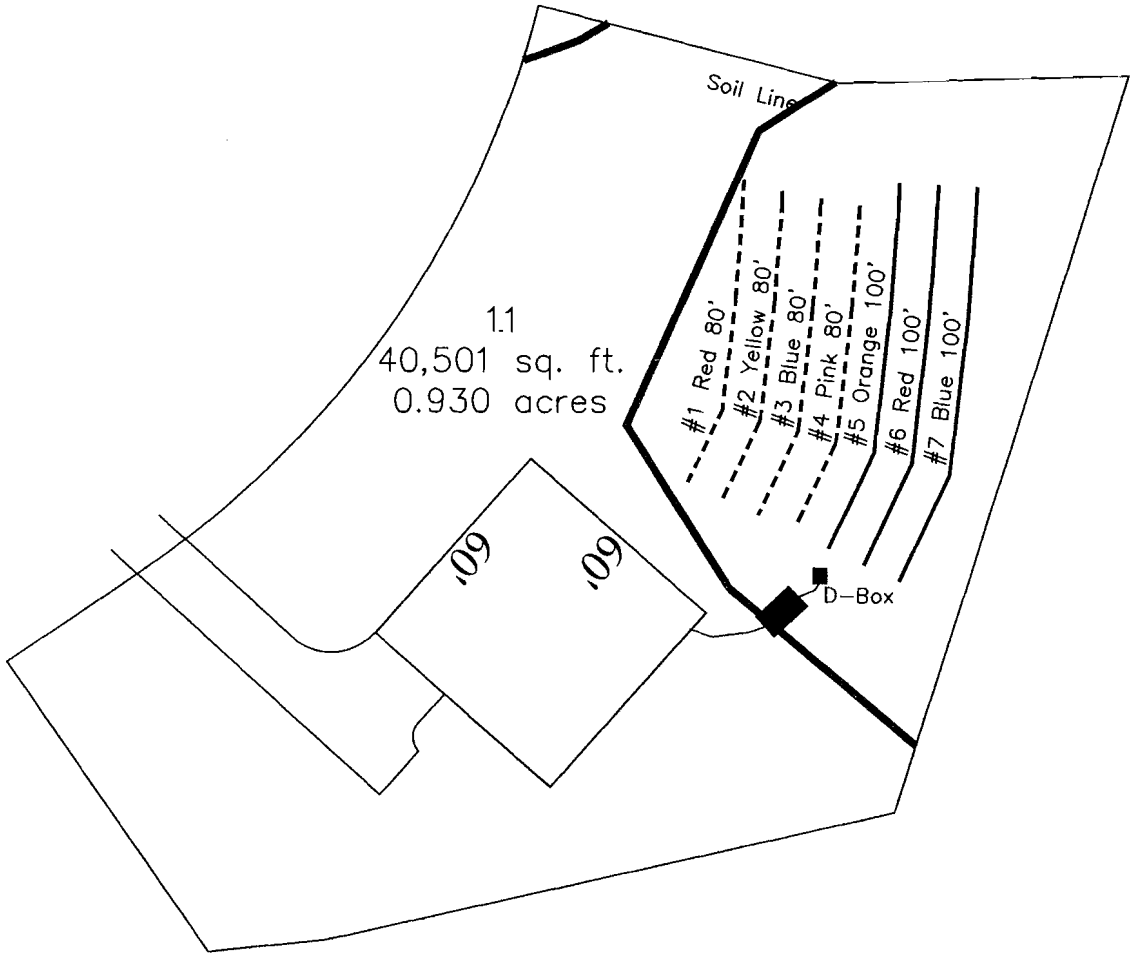
4-Bedroom Home (480 gal./day)

LINE #	COLOR	BS	HI	FS	ELEVATION	LINE LENGTH in field	Design Length installation
TBM		0.7		100.0			
INST. 1			100.7				
1	*Pink*			***5.3***	*93.7*	*80*	*80*
2	*Yellow*			*7*	*92.5*	*80*	*80*
3	*Blue*			*8.2*	*91.1*	*81*	*80*
4	*Orange*			*9.6*	89.9	*80*	*80*
5	Red			10.8	88.9	80	80
6	Pink			11.8	100.7	80	80
7	Yellow			13	100.7	73	70
8	Blue			14	100.7	70	70
					Total	**624**	**620**

	System	Repair
	Lines 1-4	Lines 5-8
System Type	Accepted Status System EZ-FLOW	Accepted Status System EZ-FLOW
Suggested Soil LTAR (gal/day/ft2)	0.40	0.40
System Installation LTAR	0.37	0.40
Total Line Length	320	300
Square Footage	960	900
Proposed Trench Bottom	18"	18"
Distribution Method	Gravity to D-Box	Pressure Manifold

Notes: TBM is EIP on P-Line

Legend Oaks Subdivision
Phase III
Lot 11
4-Bedroom Septic System Layout



System: Gravity to D-Box
Lines: 5-7, (300')
Accepted Status System
0.4 Soil LTAR
14" Trench Bottom
Repair: Pump to D-Box
Lines: 1-4, (320')
Accepted Status System
18" Trench Bottom
0.4 Soil LTAR

Site LTAR must be confirmed by local Health Department.
CCSC does not guarantee any permits or approvals.
Soil observations & septic system layouts based on opinions of CCSC personnel during field evaluations in April/May 2009.

GRAPHIC SCALE
1" = 50'

50 0 50 100

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Legend Oaks, Phase III

Lot #11

4-Bedroom Home (600 gal./day)

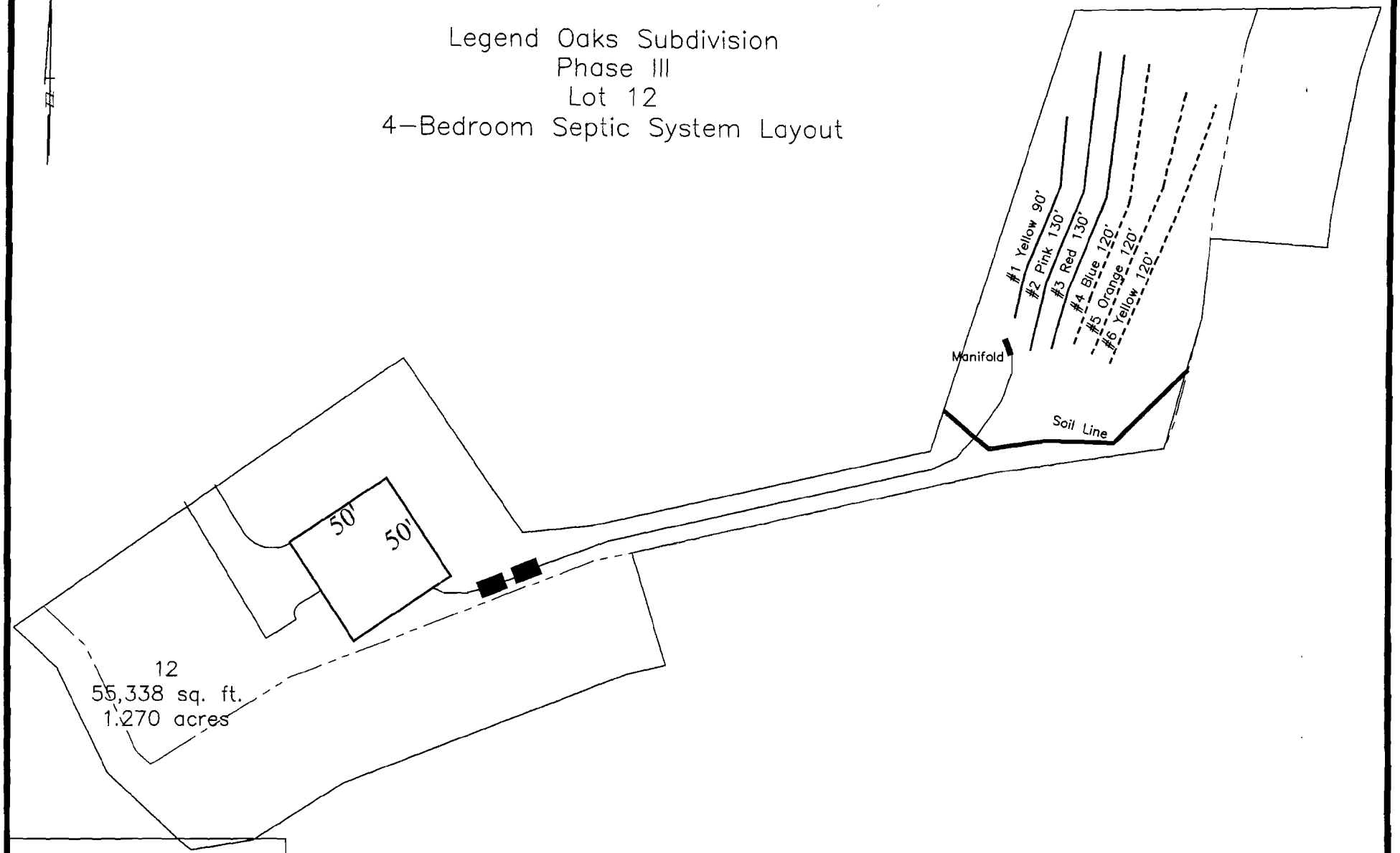
LINE #	COLOR	BS	HI	FS	ELEVATION	LINE LENGTH in field	Design Length installation
TBM		3.7		100.0			
INST. 1			103.7				
1	Red			3.8	98.7	80	80
2	Yellow			5	97.4	100	80
3	Blue			6.3	96.1	100	80
4	Pink			7.6	94.5	100	80
5	**Orange**			**9.2**	**92.9**	**100**	**100**
6	**Red**			**10.8**	**91.7**	**100**	**100**
7	***Yellow***			**12**	**103.7**	***100***	***100***
8	Blue			13.2	103.7	65	not used
					Total	**745**	**620**

	System	Repair
	Lines 5-7	Lines 1-4
System Type	Accepted Status System EZ-FLOW	Accepted Status System EZ-FLOW
Suggested Soil LTAR (gal/day/ft2)	0.40	0.40
System Installation LTAR	0.40	0.38
Total Line Length	300	320
Square Footage	900	960
Proposed Trench Bottom	14"	14"
Distribution Method	Gravity to D-Box	Pressure Manifold

Notes: TBM is EIP on P-Line

**Has Potential to upgrade to 5-Bedroom

Legend Oaks Subdivision
Phase III
Lot 12
4-Bedroom Septic System Layout



System: Pressure Manifold
Lines: 1-3, (350')
Accepted Status System
0.4 Soil LTAR
14" Trench Bottom
Repair: Pressure Manifold
Lines: 4-7, (360')
Accepted Status System
14" Trench Bottom
0.4 Soil LTAR

GRAPHIC SCALE
1" = 60'

60 0 60 120

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Legend Oaks, Phase III

Lot #12

4-Bedroom Home (600 gal./day)

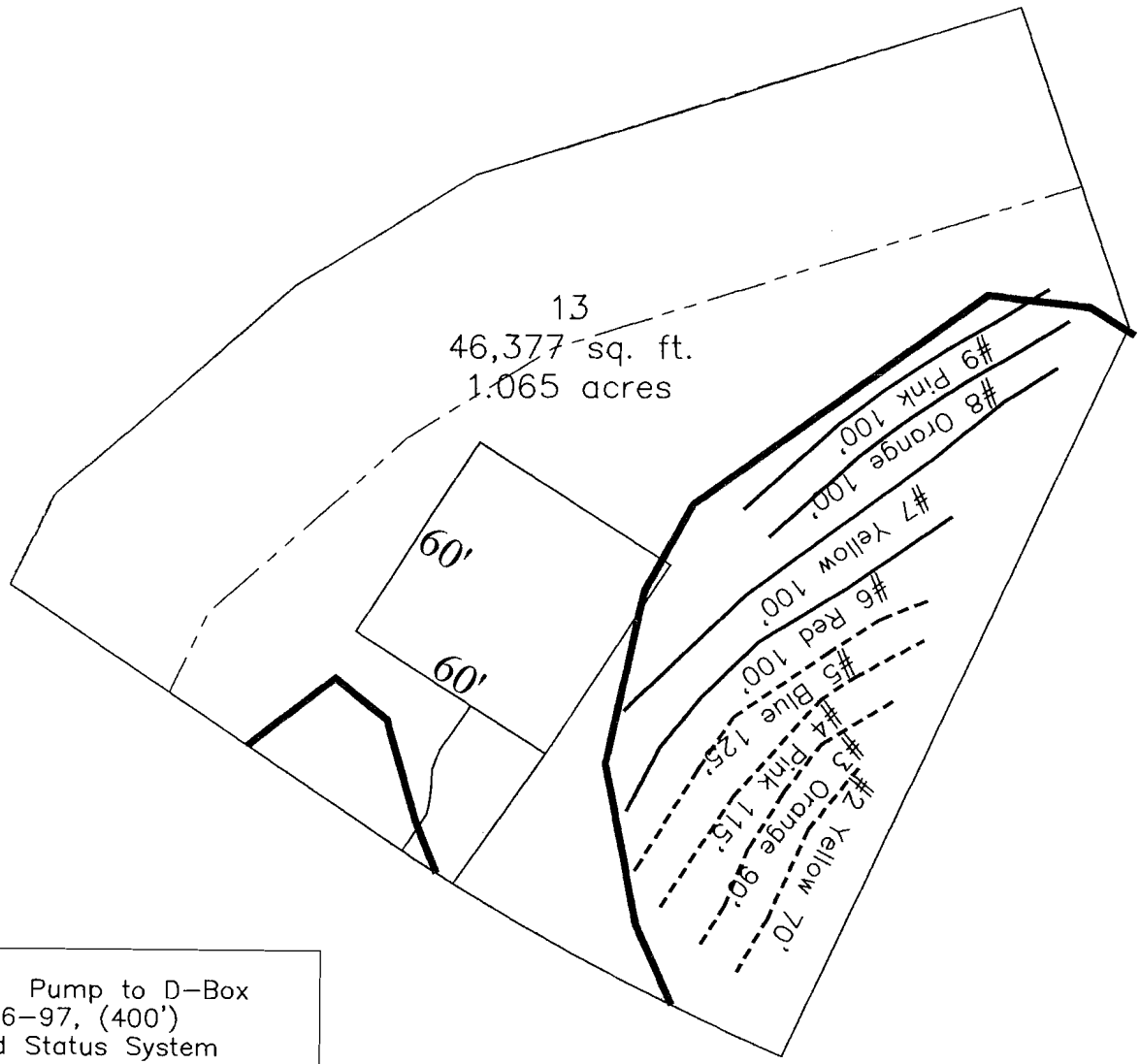
LINE #	COLOR	BS	HI	FS	ELEVATION	LINE LENGTH in field	Design Length installation
TBM		0.7		100.0			
INST. 1			100.7				
1	*Yellow*			***1.9***	*97.1*	*92*	*90*
2	*Pink*			*3.6*	*95.4*	*130*	*130*
3	*Red*			*5.3*	*93.9*	*138*	*130*
4	Blue			6.8	92.2	143	120
5	Orange			8.5	89.8	145	120
6	Yellow			10.9	88.2	150	120
7	Pink			12.5	100.7	91	not used
					Total	**889**	**710**

	System	Repair
	Lines 1-3	Lines 4-7
System Type	Accepted Status System EZ-FLOW	Accepted Status System EZ-FLOW
Suggested Soil LTAR (gal/day/ft2)	0.40	0.40
System Installation LTAR	0.35	0.35
Total Line Length	350	360
Square Footage	1050	1080
Proposed Trench Bottom	14"	14"
Distribution Method	Pressure Manifold	Pressure Manifold

Notes: TBM is EIP on P-Line

**Has Potential to upgrade to 5-Bedroom

Legend Oaks Subdivision
Phase III
Lot 13
4-Bedroom Septic System Layout



System: Pump to D-Box
Lines: 6-97, (400')
Accepted Status System
0.3 Soil LTAR
18" Trench Bottom
Repair: Pressure Manifold
Lines: 2-5, (400')
Accepted Status System
18" Trench Bottom
0.3 Soil LTAR

Site LTAR must be confirmed by local Health Department.
CCSC does not guarantee any permits or approvals.
Soil observations & septic system layouts based on opinions of CCSC personnel during field evaluations in April/May 2009.

GRAPHIC SCALE
1" = 50'

50 0 50 100

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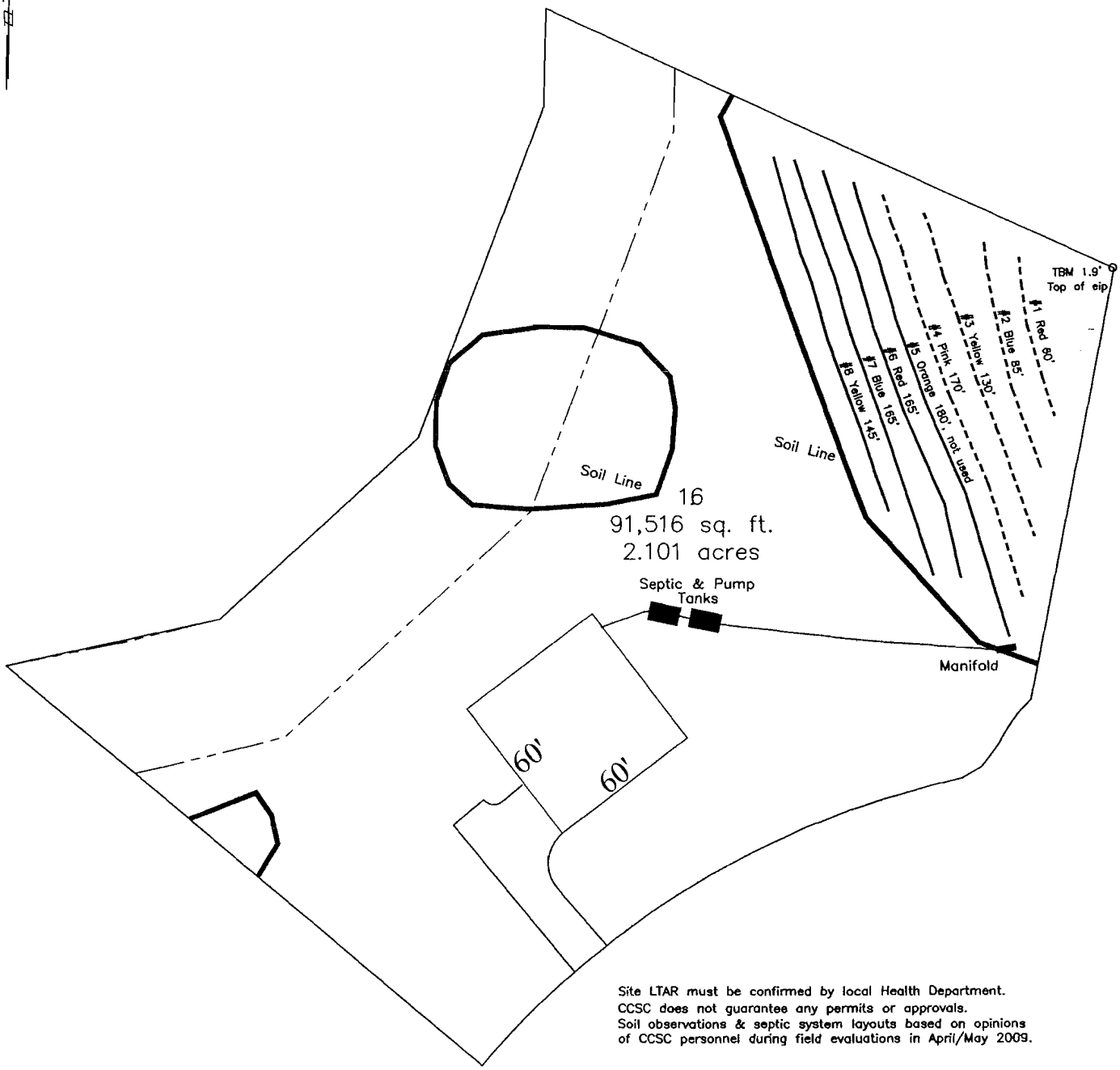
Legend Oaks, Phase III
Lot #13
4-Bedroom Home (480 gal./day)

LINE #	COLOR	BS	HI	FS	ELEVATION	LINE LENGTH in field	Design Length installation
TBM		15.5		100.0			
INST. 1			115.5				
1	Red			3.6	111.9	50	not used
2	Yellow			5.6	109.9	70	70
3	Orange			7.6	107.9	90	90
4	Pink			9.6	105.9	115	115
5	Blue			11.6	103.9	125	125
6	***Red***			***13.6***	***101.9***	***135***	***100***
7	***Yellow***			***15.6***	***99.9***	***145***	***100***
8	***Orange***			***17.6***	***97.9***	***100***	***100***
9	***Pink***			***19.6***	***95.9***	***100***	***100***
					Total	**930**	**800**

	System	Repair
	Lines 6-9	Lines 2-5
System Type	Accepted Status System EZ-FLOW	Accepted Status System EZ-FLOW
Suggested Soil LTAR (gal/day/ft2)	0.30	0.3
System Installation LTAR	0.30	0.3
Total Line Length	400	400
Square Footage	1200	1200
Proposed Trench Bottom	18"	18"
Distribution Method	Pump to D-Box	Pressure Manifold

Notes: TBM is marked stump below line #7

Legend Oaks Subdivision
Phase III
Lot 16
5–Bedroom Septic System Layout



Site LTAR must be confirmed by local Health Department.
CCSC does not guarantee any permits or approvals.
Soil observations & septic system layouts based on opinions of CCSC personnel during field evaluations in April/May 2009.

System: Pressure Manifold
Lines: 6–8, (475')
Accepted Status System
0.35 Soil LTAR
24" Trench Bottom
Repair: Pressure Manifold
Lines: 1–4, (445')
Accepted Status System
24" Trench Bottom
0.35 Soil LTAR

GRAPHIC SCALE
1" = 60'

60 0 60 120

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Legend Oaks, Phase III

Lot #16

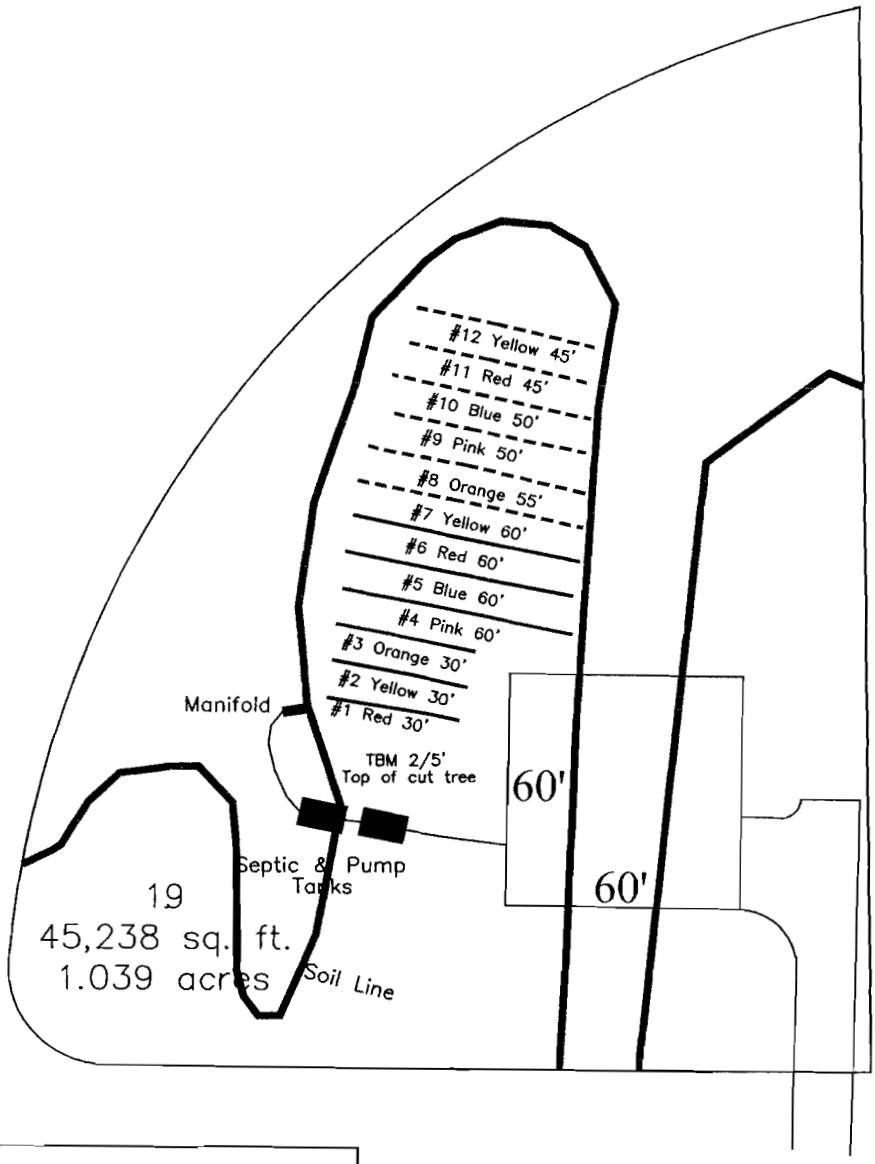
5-Bedroom Home (600 gal./day)

LINE #	COLOR	BS	HI	FS	ELEVATION	LINE LENGTH in field	Design Length installation
TBM		1.9		100.0			
INST. 1			101.9				
1	Red			5.3	96.6	61	60
2	Blue			6.8	95.1	87	85
3	Yellow			8.5	93.4	132	130
4	Pink			10.1	91.8	170	170
5	Orange			11.7	90.2	187	0
6	*Red*			*13.1*	*88.8*	*165*	*165*
7	*Blue*			*13.5*	*88.4*	*167*	*165*
8	*Yellow*			*15.0*	*86.9*	*145*	*145*
					Total	**1114**	**920**

	System	Repair
	Lines 6-8	Lines 1-4
System Type	Accepted Status System EZ-FLOW	Accepted Status System EZ-FLOW
Suggested Soil LTAR (gal/day/ft2)	0.35	0.35
System Installation LTAR	0.33	34
Total Line Length	475	445
Square Footage	1425	1335
Proposed Trench Bottom	24"	24"
Distribution Method	Pressure Manifold	Pressure Manifold

Notes: TBM is corner, eip (see site plan)

Legend Oaks Subdivision
Phase III
Lot 19
4-Bedroom Septic System Layout



System: T & J Panel Block
Lines: 1-7, (320')
50% Maximum Reduction
0.3 Soil LTAR
28" Trench Bottom
Repair: T & J Panel Block
Lines: 8-12, (245')
50% Maximum Reduction
28" Trench Bottom
0.3 Soil LTAR

Site LTAR must be confirmed by local Health Department.
CCSC does not guarantee any permits or approvals.
Soil observations & septic system layouts based on opinions of CCSC personnel during field evaluations in April/May 2009.

GRAPHIC SCALE
1" = 50'

50 0 50 100

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Legend Oaks, Phase III

Lot #19

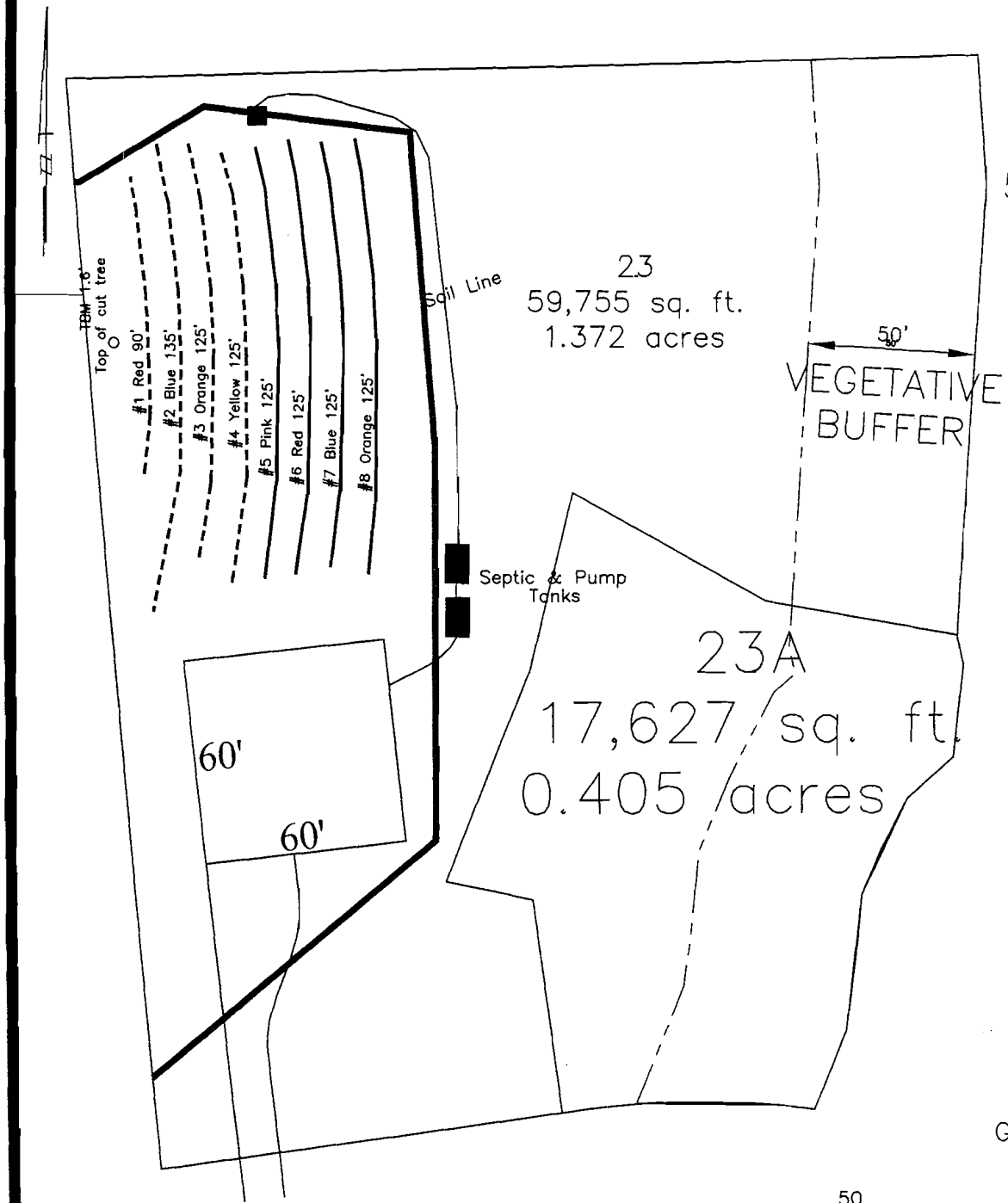
4-Bedroom Home (480 gal./day)

LINE #	COLOR	BS	HI	FS	ELEVATION	LINE LENGTH in field	Design Length installation
TBM		2.5		100.0			
INST. 1			102.5				
1	*Red*			*1.4*	*101.1*	*60*	*30*
2	*Yellow*			*2.8*	*99.7*	*60*	*30*
3	*Orange*			*3.8*	*98.7*	*60*	*30*
4	*Pink*			*4.9*	*97.6*	*60*	*60*
5	*Blue*			*6*	*96.5*	*64*	*60*
6	*Red*			*7.6*	*94.9*	*63*	*60*
7	*Yellow*			*11.4*	*91.1*	*62*	*60*
8	Orange			12.9	89.6	56	55
9	Pink			14.6	87.9	53	50
10	Blue			16.3	86.2	50	50
11	Red			17.9	84.6	48	45
12	Yellow			20.0	82.5	45	45
					Total	**681**	**575**

	System	Repair
System Type	Lines 1-7 T & J Panel Block 50% reduction	Lines 8-12 T & J Panel Block 50% reduction
Suggested Soil LTAR (gal/day/ft2)	0.30	0.35
System Installation LTAR	0.27	0.33
Total Line Length	320	245
Square Footage		
Proposed Trench Bottom	28"	28"
Distribution Method	Pressure Manifold	Pressure Manifold

Notes: TBM is cut tree above line #1

Legend Oaks Subdivision
Phase III
Lot 23
5-Bedroom Septic System Layout



Site LTAR must be confirmed by local Health Department.
CCSC does not guarantee any permits or approvals.
Soil observations & septic system layouts based on opinions of CCSC personnel during field evaluations in April/May 2009.

System: Pump to D-Box
Lines: 5-8, (500')
Accepted Status System
0.4 Soil LTAR
18" Trench Bottom
Repair: Pressure Manifold
Lines: 1-4, (475')
Accepted Status System
18" Trench Bottom
0.4 Soil LTAR

GRAPHIC SCALE
1" = 50'
50 0 50 100

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Legend Oaks, Phase III

Lot #23

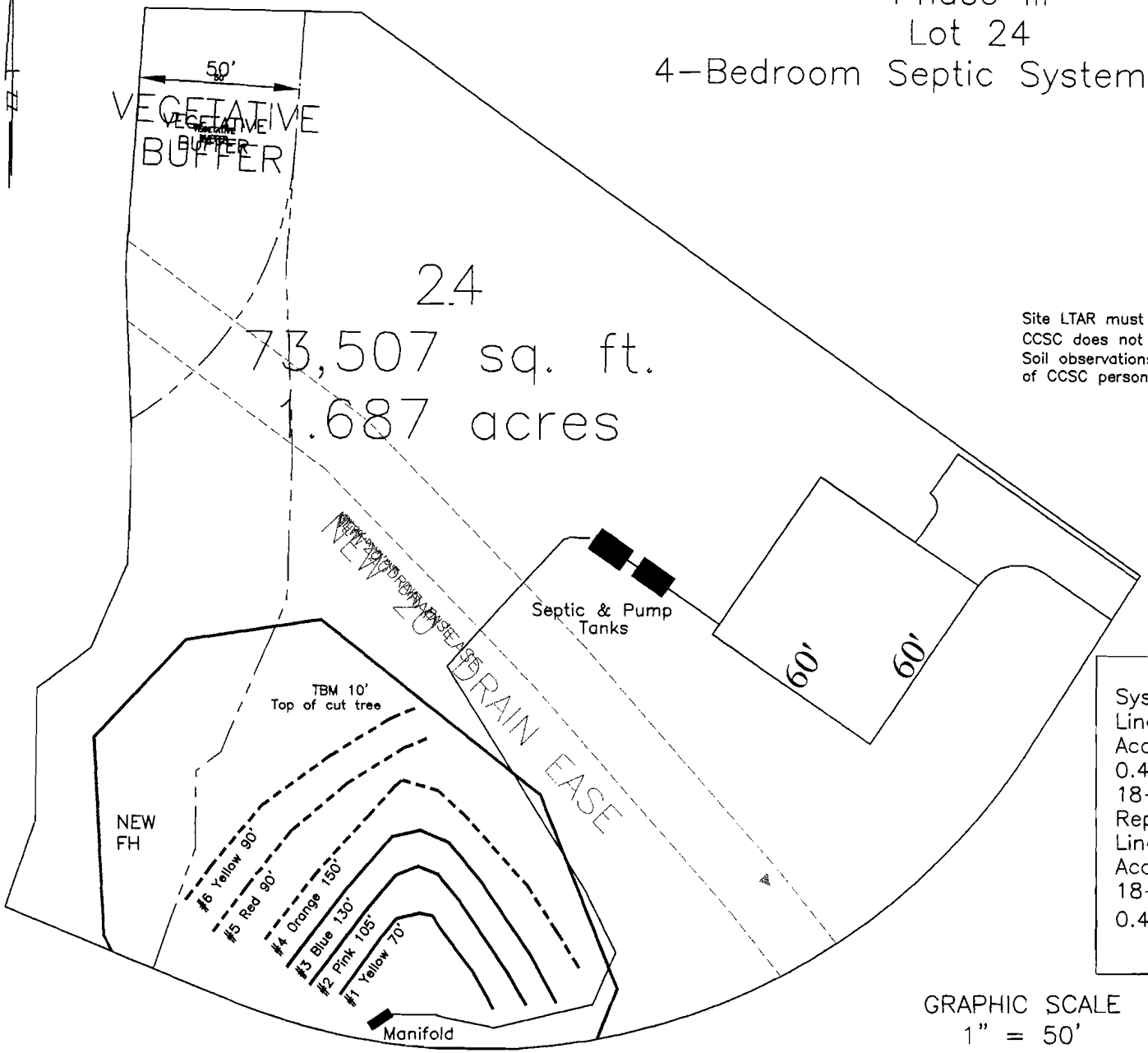
5-Bedroom Home (600 gal./day)

LINE #	COLOR	BS	HI	FS	ELEVATION	LINE LENGTH in field	Design Length installation
TBM		1.6		100.0			
INST. 1			101.6				
1	Red			3.6	98	90	90
2	Blue			5.8	95.8	135	135
3	Orange			7.5	94.1	125	125
4	Yellow			9.5	92.1	125	125
5	*Pink*			*10.4*	*91.2*	*125*	*125*
6	*Red*			*12.8*	*88.8*	*127*	*125*
7	*Blue*			*15.2*	*86.4*	*125*	*125*
8	*Orange*			*17.9*	*83.7*	*125*	*125*
					Total	977	975

	System	Repair
	Lines 5-8	Lines 1-4
System Type	Accepted Status System EZ-FLOW	Accepted Status System EZ-FLOW
Suggested Soil LTAR (gal/day/ft2)	0.35	0.35
System Installation LTAR	0.30	0.28
Total Line Length	500	475
Square Footage	1500	1425
Proposed Trench Bottom	18"	18"
Distribution Method	Pump to D-Box	Pressure Manifold

Notes: TBM is cut tree above #1 red line

Legend Oaks Subdivision
Phase III
Lot 24
4-Bedroom Septic System Layout



Site LTAR must be confirmed by local Health Department.
CCSC does not guarantee any permits or approvals.
Soil observations & septic system layouts based on opinions of CCSC personnel during field evaluations in April/May 2009.

System: Pressure Manifold
Lines: 1-3, (310')
Accepted Status System
0.4 Soil LTAR
18-24" Trench Bottom
Repair: Pressure Manifold
Lines: 4-6, (330')
Accepted Status System
18-24" Trench Bottom
0.4 Soil LTAR

GRAPHIC SCALE
1" = 50'
50 0 50 100

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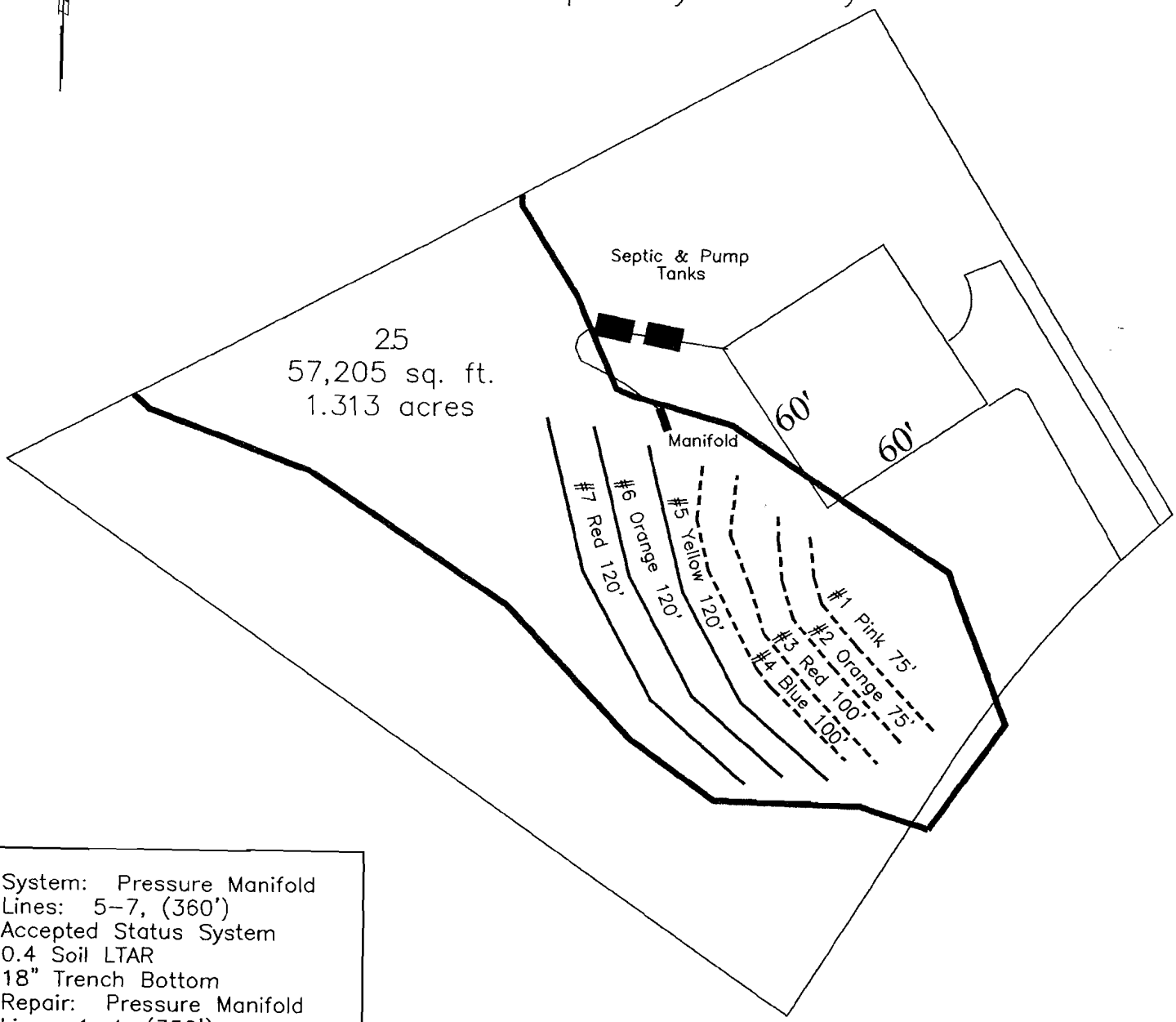
Legend Oaks, Phase III
Lot #24
4-Bedroom Home (480 gal./day)

LINE #	COLOR	BS	HI	FS	ELEVATION	LINE LENGTH in field	Design Length installation
TBM		10.0		100.0			
INST. 1			110.0				
1	*Yellow*			*3*	*105.7*	*70*	*70*
2	*Pink*			*4.3*	*104*	*105*	*105*
3	*Blue*			*6*	*102.7*	*131*	*130*
4	Orange			7.3	101.5	150	150
5	Red			8.5	100.1	90	90
6	Yellow			9.9	110	90	90
					Total	**636**	**635**

	System	Repair
	Lines 1-3	Lines 4-6
System Type	Accepted Status System EZ-FLOW	Accepted Status System EZ-FLOW
Suggested Soil LTAR (gal/day/ft2)	0.40	0.40
System Installation LTAR	0.29	0.28
Total Line Length	310	330
Square Footage	930	990
Proposed Trench Bottom	18-24"	18-24"
Distribution Method	Pressure Manifold	Pressure Manifold

Notes: *TBM is top of cut tree*

Legend Oaks Subdivision
Phase III
Lot 25
4-Bedroom Septic System Layout



System: Pressure Manifold
Lines: 5-7, (360')
Accepted Status System
0.4 Soil LTAR
18" Trench Bottom
Repair: Pressure Manifold
Lines: 1-4, (350')
Accepted Status System
18" Trench Bottom
0.4 Soil LTAR

Site LTAR must be confirmed by local Health Department.
CCSC does not guarantee any permits or approvals.
Soil observations & septic system layouts based on opinions of CCSC personnel during field evaluations in April/May 2009.

GRAPHIC SCALE
1" = 50'
50 0 50 100

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Legend Oaks, Phase III

Lot # 25

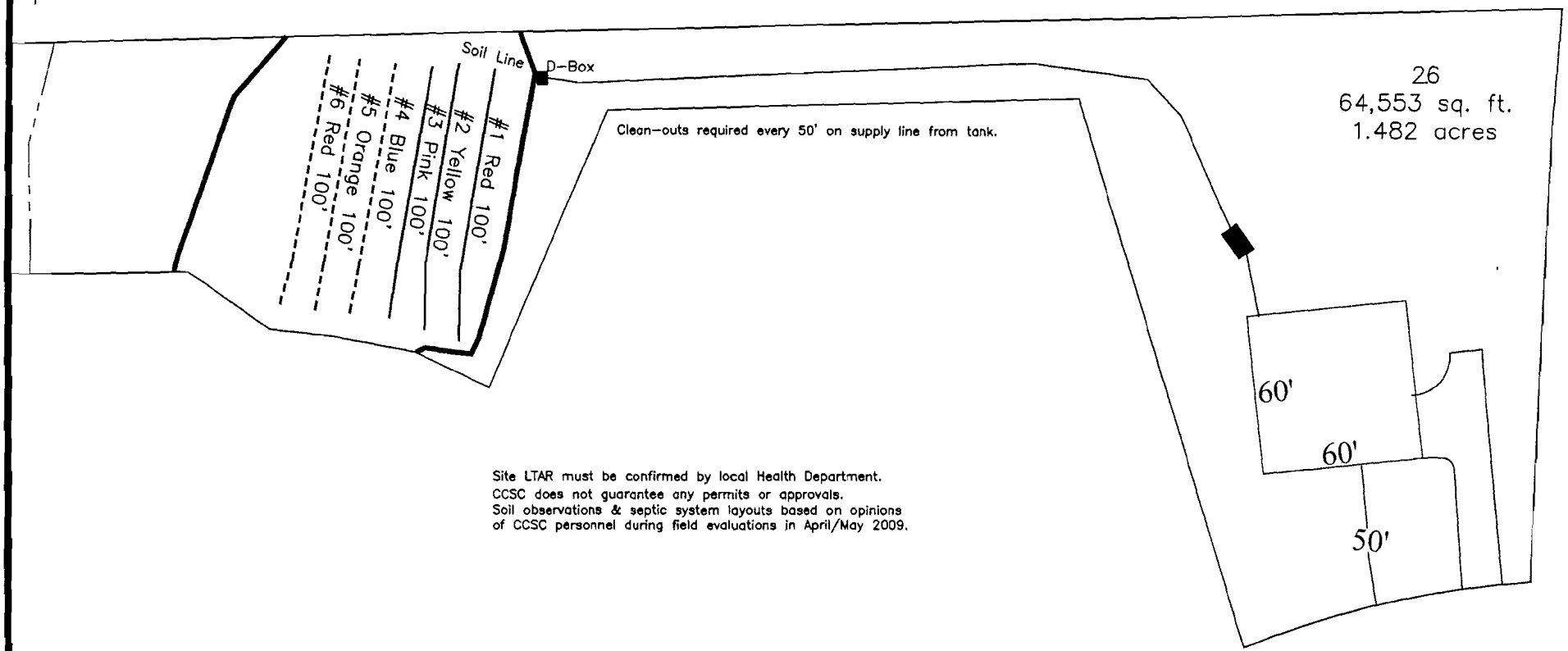
4-Bedroom Home (480 gal./day)

LINE #	COLOR	BS	HI	FS	ELEVATION	LINE LENGTH in field	Design Length installation
TBM		5.3		100.0			
INST. 1			105.3				
1	Pink			0.1	105.2	75	75
2	Orange			1.1	104.2	75	75
3	Red			3	102.3	100	100
4	Blue			4.4	100.9	100	100
5	*Yellow*			*7*	*98.3*	*120*	*120*
6	*Orange*			*9.7*	*95.6*	*130*	*120*
7	*Red*			*12.4*	*92.9*	*126*	*120*
					Total	**726**	**710**

	System	Repair
System Type	Lines 5-7 Accepted Status System EZ-FLOW	Lines 1-4 Accepted Status System EZ-FLOW
Suggested Soil LTAR (gal/day/ft2)	0.40	0.4
System Installation LTAR	0.35	0.36
Total Line Length	360	350
Square Footage	1080	1050
Proposed Trench Bottom	18"	18"
Distribution Method	Pressure Manifold	Pressure Manifold

Notes: TBM is top of cut tree

Legend Oaks Subdivision
Phase III
Lot 26
4-Bedroom Septic System Layout



Site LTAR must be confirmed by local Health Department.
CCSC does not guarantee any permits or approvals.
Soil observations & septic system layouts based on opinions of CCSC personnel during field evaluations in April/May 2009.

System: Gravity to D-Box
Lines: 1-3, (300')
Accepted Status System
0.4 Soil LTAR
18" Trench Bottom
Repair: Gravity to D-Box
Lines: 4-6, (300')
Accepted Status System
18" Trench Bottom
0.4 Soil LTAR

GRAPHIC SCALE
1" = 60'

60 0 60 120

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Legend Oaks, Phase III

Lot #26

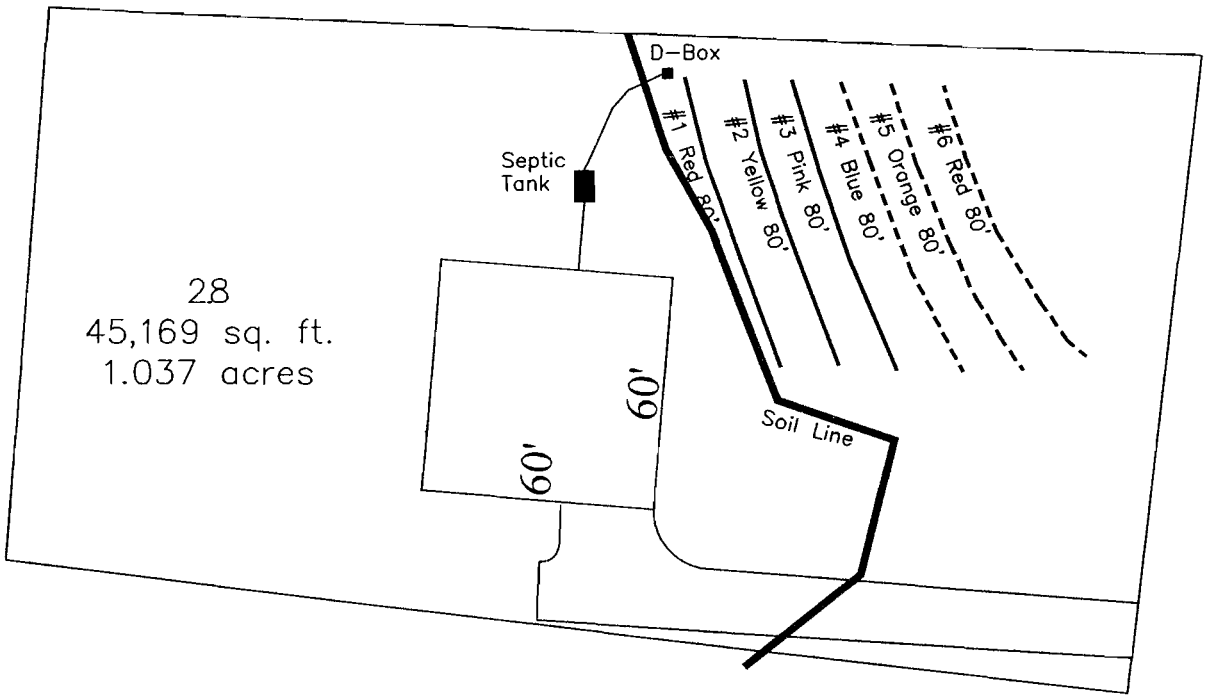
4-Bedroom Home (480 gal./day)

LINE #	COLOR	BS	HI	FS	ELEVATION	LINE LENGTH in field	Design Length installation
TBM		0.0		100.0			
INST. 1			100.0				
1	*Red*			*2.3*	*97.7*	*100*	*100*
2	*Yellow*			*4.5*	*95.5*	*100*	*100*
3	*Pink*			*6.8*	*93.2*	*100*	*100*
4	Blue			9.2	90.8	100	100
5	Orange			11.5	88.5	100	100
6	Red			14.1	85.9	100	100
					Total	**600**	**600**

	System	Repair
	Lines 1-3	Lines 4-6
System Type	Accepted Status System EZ-FLOW	Accepted Status System EZ-FLOW
Suggested Soil LTAR (gal/day/ft2)	0.40	0.4
System Installation LTAR	0.40	0.4
Total Line Length	300	300
Square Footage	900	900
Proposed Trench Bottom	18"	18"
Distribution Method	Gravity to D-Box	Gravity to D-Box

Notes:

Legend Oaks Subdivision
Phase III
Lot 28
3-Bedroom Septic System Layout



System: Gravity to D-Box
Lines: 1-4, (240')
Accepted Status System
0.4 Soil LTAR
18" Trench Bottom
Repair: Gravity to D-Box
Lines: 4-6, (240')
Accepted Status System
18" Trench Bottom
0.3 Soil LTAR

Site LTAR must be confirmed by local Health Department.
CCSC does not guarantee any permits or approvals.
Soil observations & septic system layouts based on opinions of CCSC personnel during field evaluations in April/May 2009.

GRAPHIC SCALE
1" = 50'

50 0 50 100

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Legend Oaks, Phase III

Lot #28

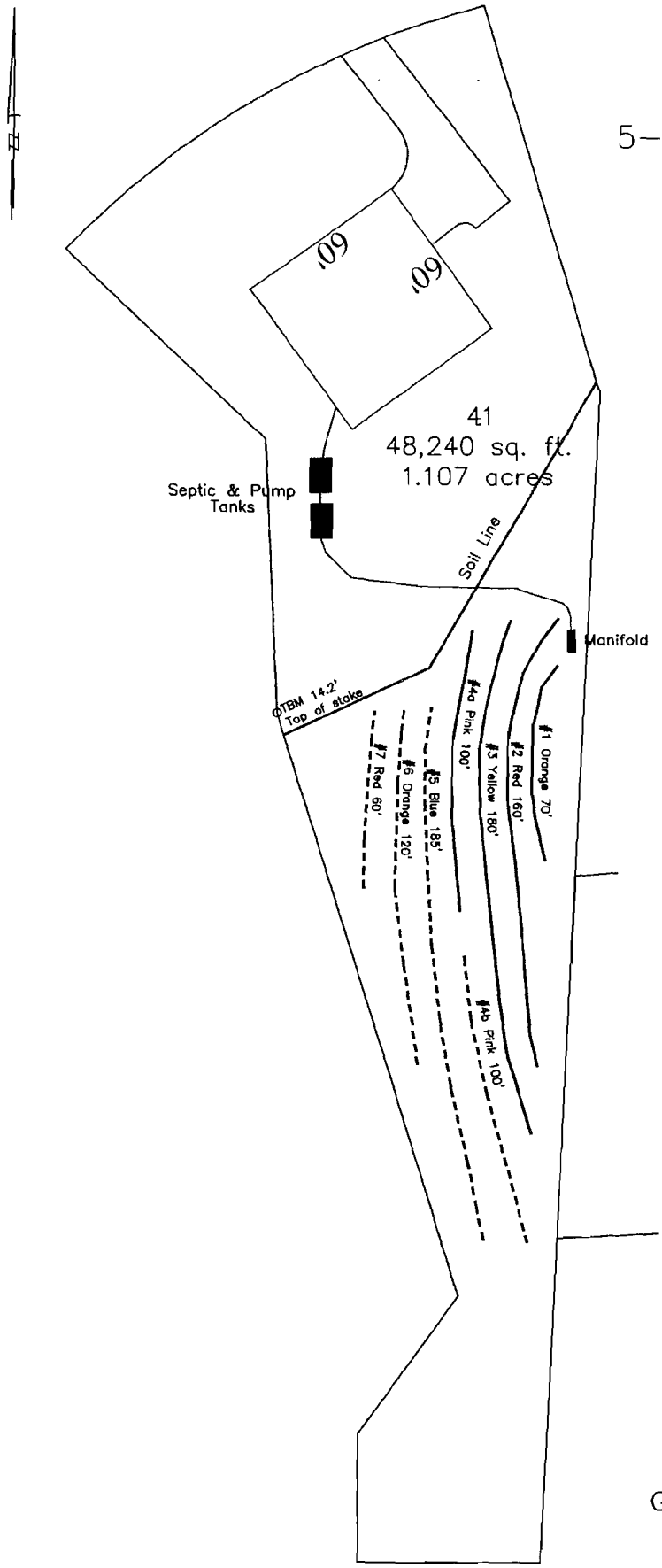
3-Bedroom Home (360 gal./day)

LINE #	COLOR	BS	HI	FS	ELEVATION	LINE LENGTH in field	Design Length installation
TBM		0.0		100.0			
INST. 1			100.0				
1	*Red*			*3.3*	*96.7*	*83*	*80*
2	*Yellow*			*5.9*	*94.1*	*80*	*80*
3	*Pink*			*8.8*	*91.2*	*80*	*80*
4	Blue			11.9	88.1	80	80
5	Orange			14.7	85.3	80	80
6	Red			16.9	83.1	80	80
					Total	**483**	**480**

	System	Repair
	Lines 1-3	Lines 4-6
System Type	Accepted Status System EZ-FLOW	Accepted Status System EZ-FLOW
Suggested Soil LTAR (gal/day/ft2)	0.40	0.4
System Installation LTAR	0.39	0.29
Total Line Length	240	240
Square Footage	720	720
Proposed Trench Bottom	18"	18"
Distribution Method	Gravity to D-Box	Gravity to D-Box

Notes:

Legend Oaks Subdivision
Phase III
Lot 41
5-Bedroom Septic System Layout



Site LTAR must be confirmed by local Health Department.
CCSC does not guarantee any permits or approvals.
Soil observations & septic system layouts based on opinions of CCSC personnel during field evaluations in April/May 2009.

System: Pressure Manifold
Lines: 1-4a, (510')
Accepted Status System
0.35 Soil LTAR
20" Trench Bottom
Repair: Pressure Manifold
Lines: 4b-7, (465')
Accepted Status System
20" Trench Bottom
0.35 Soil LTAR

GRAPHIC SCALE
1" = 60'

60 0 60 120

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Legend Oaks, Phase III

Lot # 41

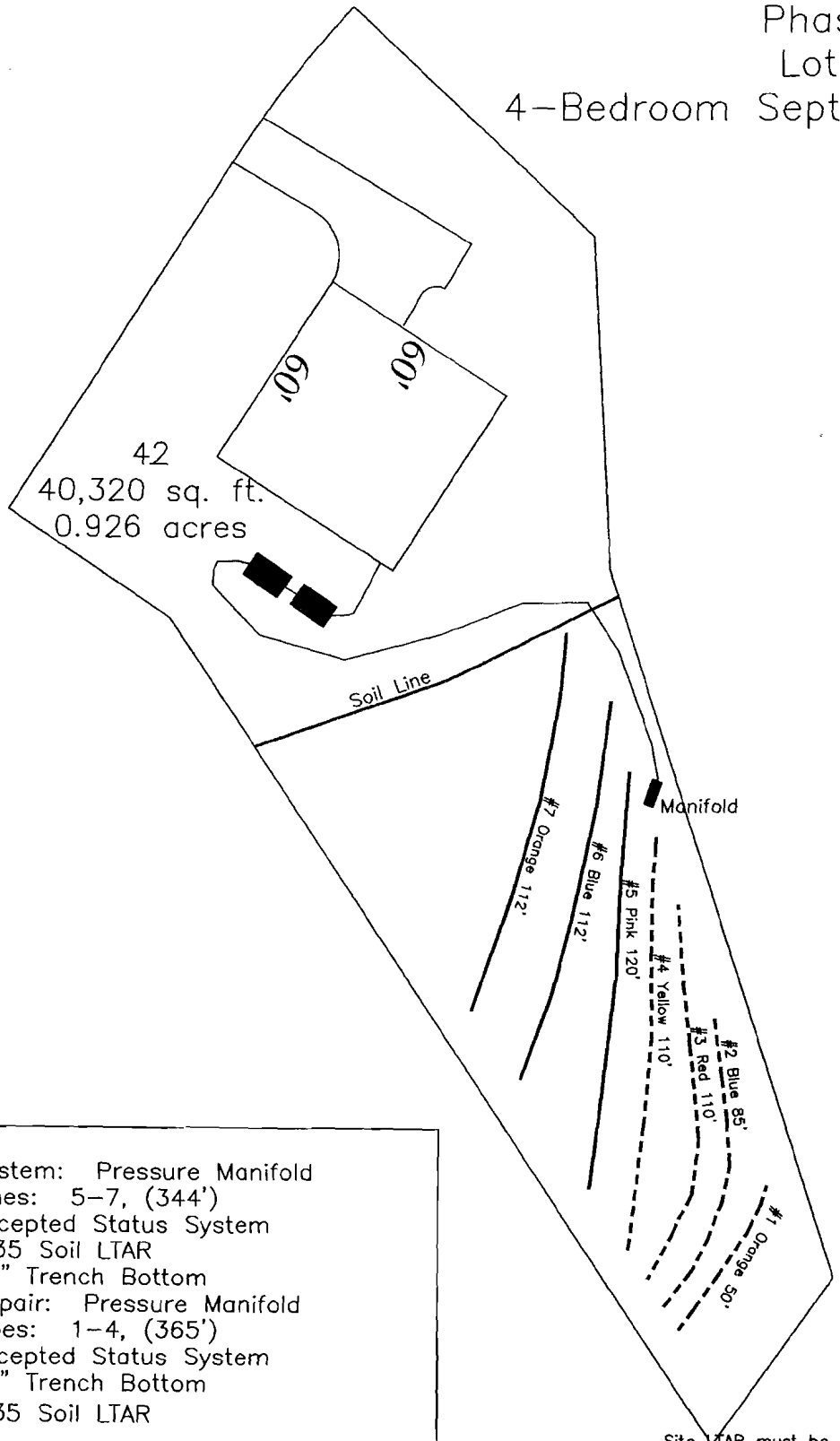
5-Bedroom Home (600 gal./day)

LINE #	COLOR	BS	HI	FS	ELEVATION	LINE LENGTH in field	Design Length installation
TBM		14.2		100.0			
INST. 1			114.2				
1	*Orange*			*1.9*	*112.3*	*70*	*70*
2	*Red*			*3.3*	*110.9*	*166*	*160*
3	*Yellow*			*4.3*	*109.9*	*180*	*180*
4a & 4b	*Pink*			*5.8*	*108.4*	*215*	*200*
5	*Blue*			*7*	*107.2*	*185*	*185*
6	*Orange*			*8.2*	*106*	*122*	*120*
7	*Red*			*9.5*	*104.7*	*61*	*60*
					Total	**999**	**975**

	System	Repair
System Type	Lines 1-4a Accepted Status System EZ-FLOW	Lines 4b-7 Accepted Status System EZ-FLOW
Suggested Soil LTAR (gal/day/ft2)	0.35	0.35
System Installation LTAR	0.29	0.32
Total Line Length	510	465
Square Footage	1530	1395
Proposed Trench Bottom	20"	20"
Distribution Method	Pressure Manifold	Pressure Manifold

Notes: TBM is top of lot 41/42 corner stake, see site plan

Legend Oaks Subdivision
Phase III
Lot 42
4-Bedroom Septic System Layout



System: Pressure Manifold
Lines: 5-7, (344')
Accepted Status System
0.35 Soil LTAR
20" Trench Bottom
Repair: Pressure Manifold
Lines: 1-4, (365')
Accepted Status System
20" Trench Bottom
0.35 Soil LTAR

Site LTAR must be confirmed by local Health Department.
CCSC does not guarantee any permits or approvals.
Soil observations & septic system layouts based on opinions of CCSC personnel during field evaluations in April/May 2009.

GRAPHIC SCALE
1" = 50'

50 0 50 100

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Legend Oaks, Phase III

Lot # 42

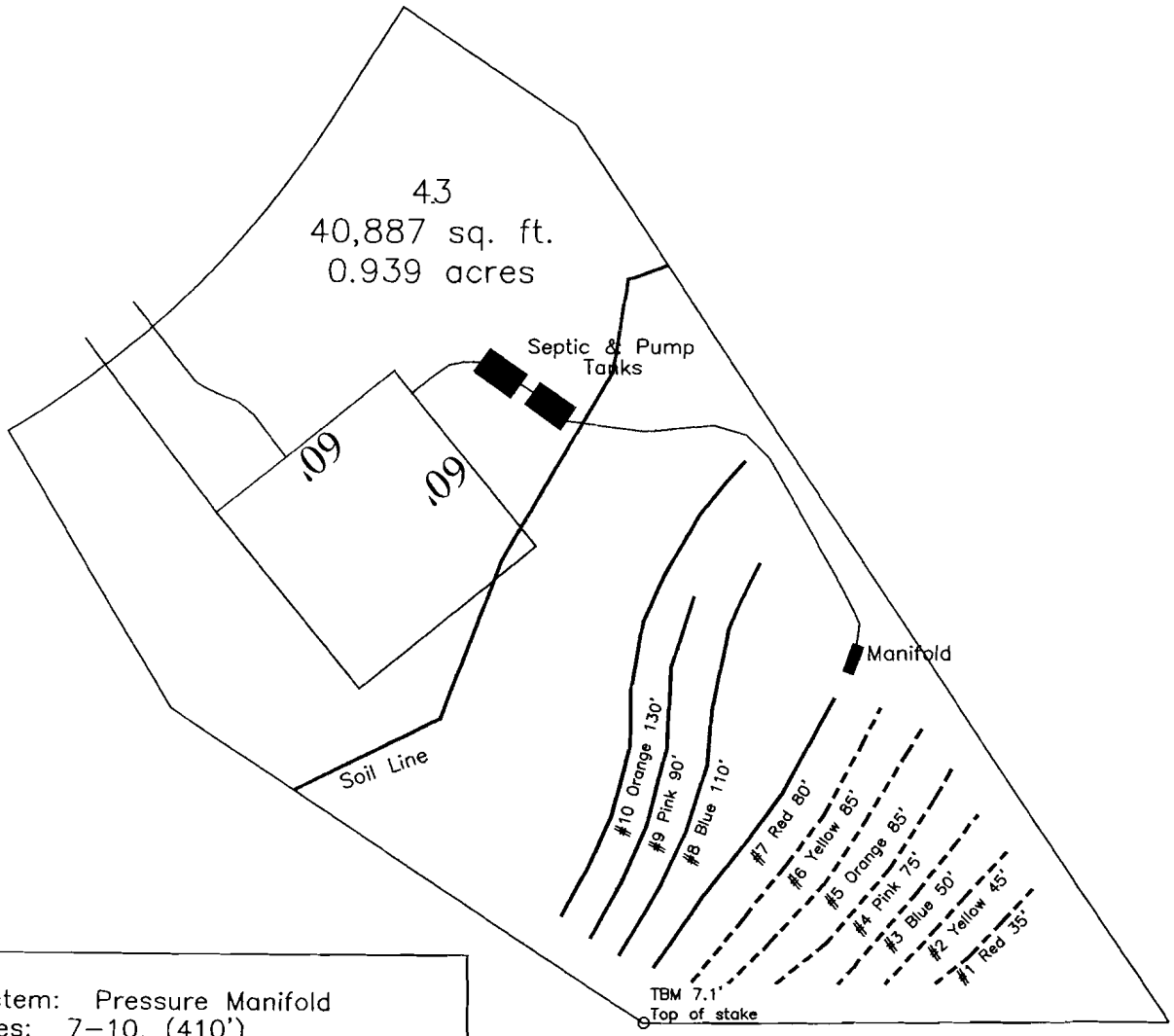
4-Bedroom Home (480 gal./day)

LINE #	COLOR	BS	HI	FS	ELEVATION	LINE LENGTH in field	Design Length installation
TBM		0.0		100.0			
INST. 1			100.0				
1	Orange			2.5	97.5	50	50
2	Blue			3.3	96.7	85	85
3	Red			4.2	95.8	110	110
4	Yellow			5.2	*94.8*	112	110
5	*Pink*			*5.9*	*94.1*	*123*	*120*
6	*Blue*			*7.7*	*92.3*	*112*	*112*
7	*Orange*			*9.3*	*90.7*	*112*	*112*
					Total	**704**	**699**

	System	Repair
System Type	Lines 5-7 Accepted Status System EZ-FLOW	Lines 1-4 Accepted Status System EZ-FLOW
Suggested Soil LTAR (gal/day/ft2)	0.35	0.35
System Installation LTAR	0.34	0.33
Total Line Length	344	365
Square Footage	1032	1095
Proposed Trench Bottom	20"	20"
Distribution Method	Pressure Manifold	Pressure Manifold

Notes:

Legend Oaks Subdivision
Phase III
Lot 43
4-Bedroom Septic System Layout



System: Pressure Manifold
Lines: 7-10, (410')
Accepted Status System
0.35 Soil LTAR
18" Trench Bottom
Repair: Pressure Manifold
Lines: 1-6, (375')
Accepted Status System
18" Trench Bottom
0.35 Soil LTAR

Site LTAR must be confirmed by local Health Department.
CCSC does not guarantee any permits or approvals.
Soil observations & septic system layouts based on opinions of CCSC personnel during field evaluations in April/May 2009.

GRAPHIC SCALE
1" = 50'

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Legend Oaks, Phase III

Lot # 43

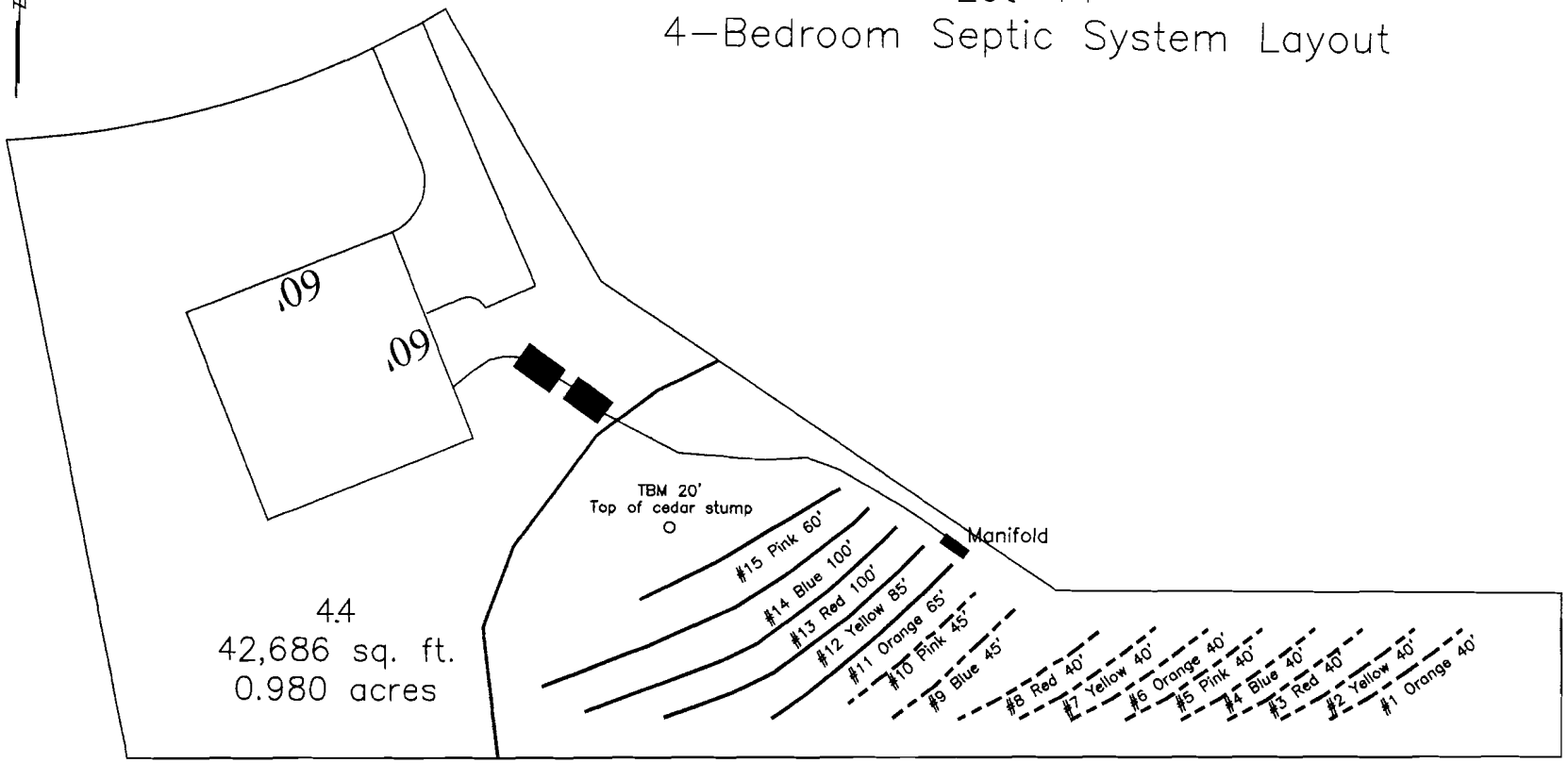
4-Bedroom Home (480 gal./day)

LINE #	COLOR	BS	HI	FS	ELEVATION	LINE LENGTH in field	Design Length installation
TBM		7.1		100.0			
INST. 1			107.1				
1	Red			3	104.1	35	35
2	Yellow			3.7	103.4	45	45
3	Blue			4.8	102.3	57	50
4	Pink			5.9	101.2	75	75
5	Orange			7	100.1	85	85
6	Yellow			7.8	99.3	88	85
7	*Red*			*8.9*	*98.2*	*88*	*80*
8	*Blue*			*10.1*	*97*	*117*	*110*
9	*Pink*			*11.3*	*95.8*	*95*	*90*
10	*Orange*			*12.7*	*94.4*	*131*	*130*
					Total	**816**	**785**

	System	Repair
	Lines 7-10	Lines 1-6
System Type	Accepted Status System EZ-FLOW	Accepted Status System EZ-FLOW
Suggested Soil LTAR (gal/day/ft2)	0.35	0.35
System Installation LTAR	0.29	0.33
Total Line Length	410	375
Square Footage	1230	1125
Proposed Trench Bottom	18"	18"
Distribution Method	Pressure Manifold	Pressure Manifold

Notes:

Legend Oaks Subdivision
Phase III
Lot 44
4-Bedroom Septic System Layout



System: Pressure Manifold
Lines: 7-10, (410')
Accepted Status System
0.35 Soil LTAR
18" Trench Bottom
Repair: Pressure Manifold
Lines: 1-6, (375')
Accepted Status System
18" Trench Bottom
0.35 Soil LTAR

Site LTAR must be confirmed by local Health Department.
CCSC does not guarantee any permits or approvals.
Soil observations & septic system layouts based on opinions of CCSC personnel during field evaluations in April/May 2009.

GRAPHIC SCALE
1" = 50'

50 0 50 100

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Legend Oaks, Phase III

Lot # 44

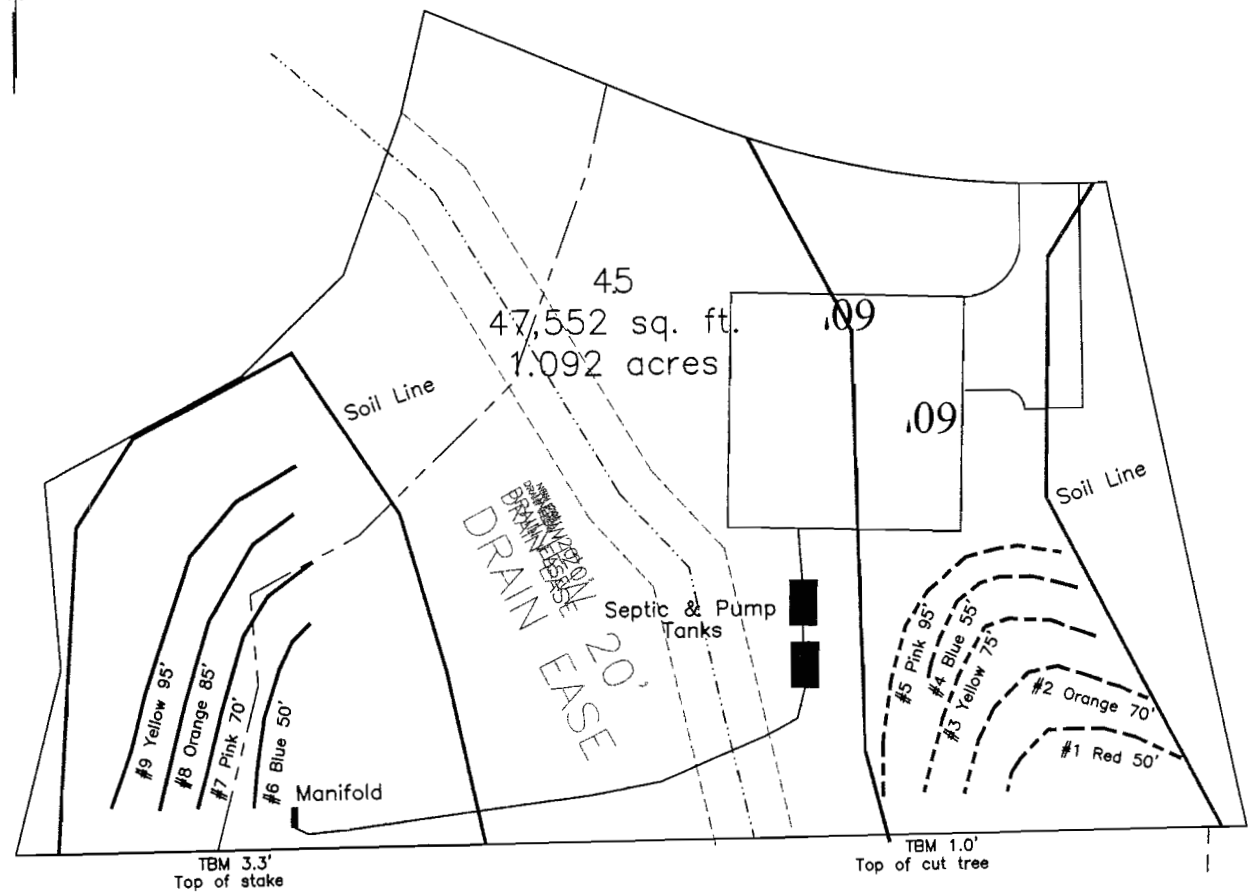
4-Bedroom Home (480 gal./day)

LINE #	COLOR	BS	HI	FS	ELEVATION	LINE LENGTH in field	Design Length installation
TBM		20.0		100.0			
INST. 1			120.0				
1	Orange			1.8	118.2	48	40
2	Yellow			2.6	117.4	47	40
3	Red			3.7	116.3	46	40
4	Blue			5	115	42	40
5	*Pink*			*6.2*	*113.8*	*47*	40
6	*Orange*			*7.5*	*112.5*	*40*	40
7	Yellow			8.6	111.4	44	*40*
8	Red			9.9	110.1	45	40
9	Blue			11	109	45	45
10	Pink			12.1	107.9	55	45
11	***Orange***			***13.2***	***106.8***	***65***	***65***
12	***Yellow***			***14.3***	***105.7***	***89***	***85***
13	***Red***			***15.6***	***104.4***	***103***	***100***
14	***Blue***			***17***	***103***	***105***	***100***
15	***Pink***			***18.3***	***101.7***	***62***	***60***
					Total	**883**	**820**

	System	Repair
System Type	Lines 11-15 Accepted Status System EZ-FLOW	Lines 1-10 Accepted Status System EZ-FLOW
Suggested Soil LTAR (gal/day/ft2)	0.33	0.33
System Installation LTAR	0.29	0.29
Total Line Length	410	410
Square Footage	1230	1230
Proposed Trench Bottom	18"	24"
Distribution Method	Pressure Manifold	Pressure Manifold

Notes: TBM is the top of a marked Cedar Stump below layout

Legend Oaks Subdivision
Phase III
Lot 45
4-Bedroom Septic System Layout



Site LTAR must be confirmed by local Health Department.
CCSC does not guarantee any permits or approvals.
Soil observations & septic system layouts based on opinions of CCSC personnel during field evaluations in April/May 2009.

System: Pressure Manifold
Lines: 1-5, (345')
Accepted Status System
0.35 Soil LTAR
18" Trench Bottom
Repair: Pressure Manifold
Lines: 1-5, (310')
Accepted Status System
16" Trench Bottom
0.4 Soil LTAR

GRAPHIC SCALE
1" = 50'

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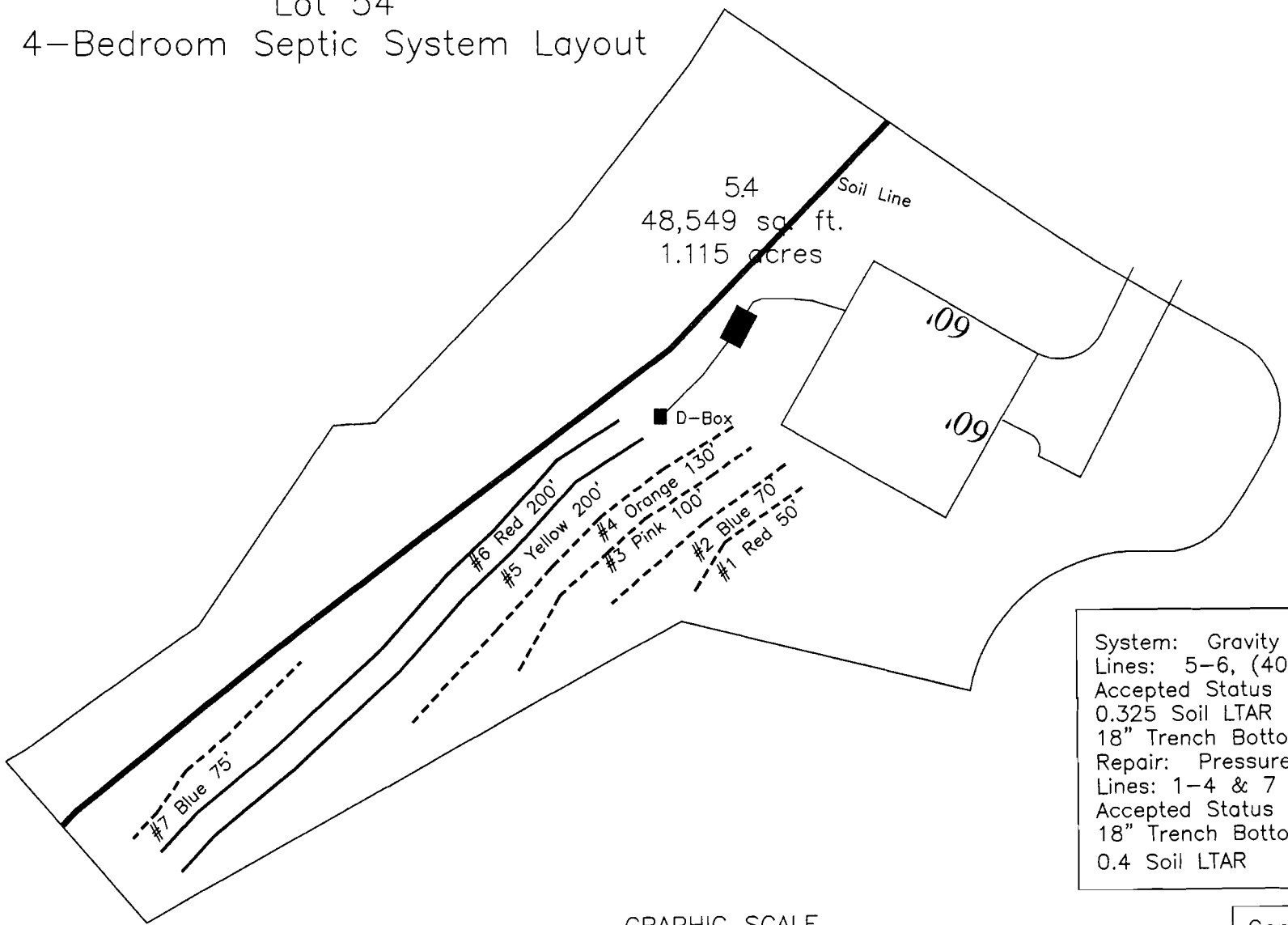
Legend Oaks, Phase III
Lot #45
4-Bedroom Home (480 gal./day)

LINE #	COLOR	BS	HI	FS	ELEVATION	LINE LENGTH in field	Design Length installation
TBM		0.7		100.0			
INST. 1			100.7				
1	Red			2.5	97.1	54	50
2	Orange			3.6	95.8	70	70
3	Yellow			4.9	94.3	78	75
4	Blue			6.4	92.3	58	55
5	Pink			8.4	100.7	95	95
TBM 2		3.3		100.0			
INST. 2			103.3				
6	*Blue*			*4.9*	*98.4*	*50*	*50*
7	*Pink*			*6.3*	*97*	*72*	*70*
8	*Orange*			*7.7*	*95.6*	*85*	*85*
9	*Yellow*			*10.3*	*93*	*105*	*105*
					Total	667	655

	System	Repair
	Lines 6-9	Lines 1-5
System Type	Accepted Status System EZ-FLOW	Accepted Status System EZ-FLOW
Suggested Soil LTAR (gal/day/ft2)	0.40	0.40
System Installation LTAR	0.35	0.39
Total Line Length	345	310
Square Footage	1035	930
Proposed Trench Bottom	18"	16"
Distribution Method	Pressure Manifold	Pressure Manifold

Notes: TBM 1 is top of stake on property line.
TBM 2 is top of cut tree on property line

Legend Oaks Subdivision
Phase III
Lot 54
4-Bedroom Septic System Layout



System: Gravity to D-Box
Lines: 5-6, (400')
Accepted Status System
0.325 Soil LTAR
18" Trench Bottom
Repair: Pressure Manifold
Lines: 1-4 & 7 (400')
Accepted Status System
18" Trench Bottom
0.4 Soil LTAR

GRAPHIC SCALE
1" = 50'

50 0 50 100

Site LTAR must be confirmed by local Health Department.
CCSC does not guarantee any permits or approvals.
Soil observations & septic system layouts based on opinions of CCSC personnel during field evaluations in April/May 2009.

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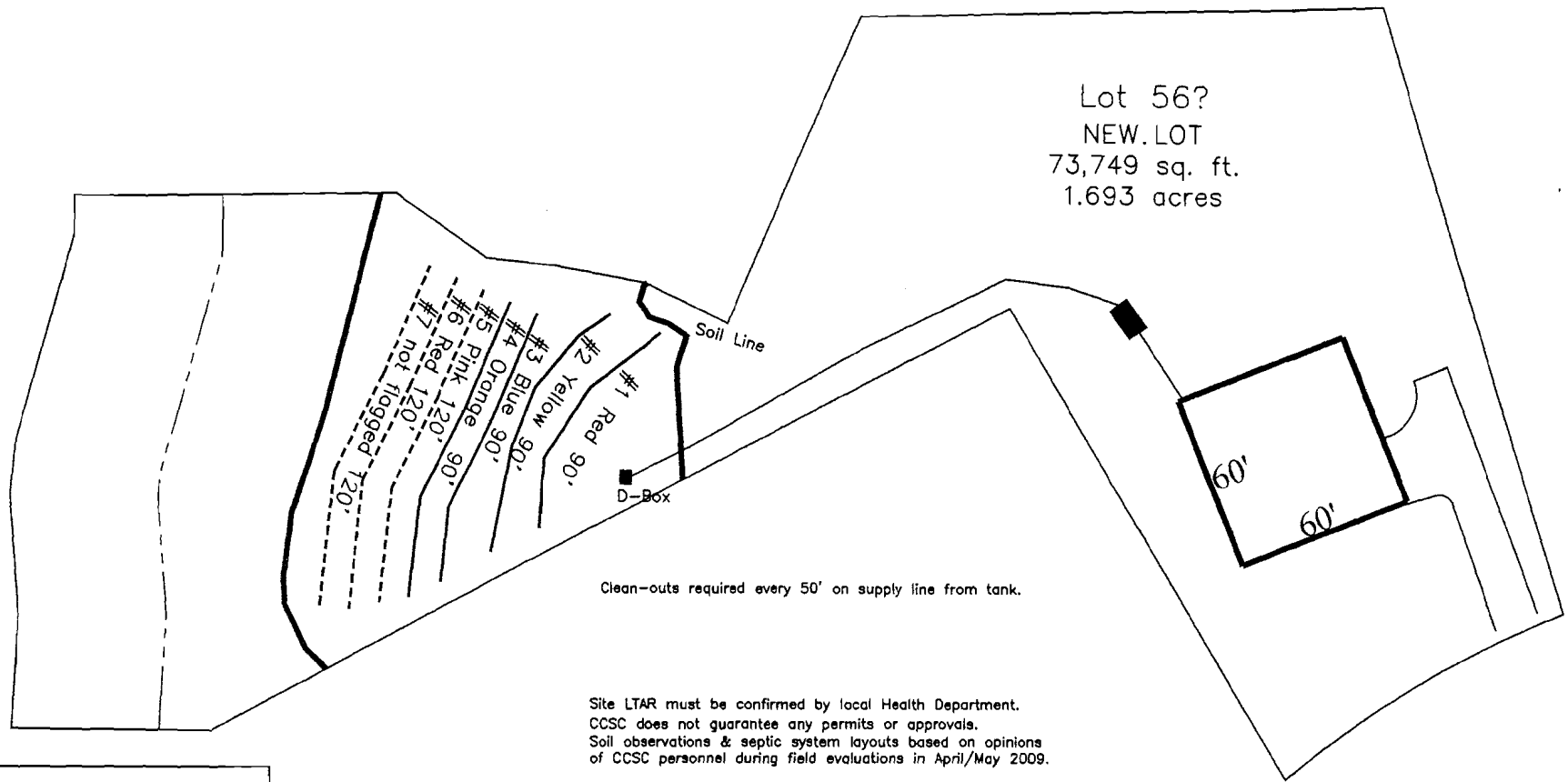
Legend Oaks, Phase III
Lot #54
4-Bedroom Home (480 gal./day)

LINE #	COLOR	BS	HI	FS	ELEVATION	LINE LENGTH in field	Design Length installation
TBM		7.7		100.0			
INST. 1			107.7				
1	Red			2.5	105.2	53	50
2	Blue			4.1	103.6	71	70
3	Pink			5.7	102	100	90
4	Orange			7.8	99.9	135	130
5	***Yellow***			***10.2***	***97.5***	***200***	***200***
6	***Red***			***12.5***	***95.2***	***200***	***200***
7	Blue			14.0	93.7	75	60
					Total	**834**	**800**

	System	Repair
System Type	Lines 5-6 Accepted Status System EZ-FLOW	Lines 1-4,7 Accepted Status System EZ-FLOW
Suggested Soil LTAR (gal/day/ft2)	0.325	0.325
System Installation LTAR	0.30	0.29
Total Line Length	400	400
Square Footage	1200	1200
Proposed Trench Bottom	18"	18"
Distribution Method	Gravity to D-Box	Pressure Manifold

Notes: TBM is cut tree on P-line

Legend Oaks Subdivision
Phase III
New lot (56?)
4-Bedroom Septic System Layout



Clean-outs required every 50' on supply line from tank.

Site LTAR must be confirmed by local Health Department.
CCSC does not guarantee any permits or approvals.
Soil observations & septic system layouts based on opinions of CCSC personnel during field evaluations in April/May 2009.

System: Gravity to D-Box
Lines: 1-4, (360')
Accepted Status System
0.4 Soil LTAR
18" Trench Bottom
Repair: Gravity to D-Box
Lines: 5-7, (360')
Accepted Status System
18" Trench Bottom
0.4 Soil LTAR

GRAPHIC SCALE
1" = 60'

60 0 60 120

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Legend Oaks, Phase III

New Lot

4-Bedroom Home (480 gal./day)

LINE #	COLOR	BS	HI	FS	ELEVATION	LINE LENGTH in field	Design Length installation
TBM		8.8		100.0			
INST. 1			108.8				
1	*Red*			*1.8*	*107*	*100*	*90*
2	*Yellow*			*3.5*	*105.3*	*105*	*90*
3	*Blue*			*5*	*103.8*	*115*	*90*
4	*Orange*			*6.7*	*102.1*	*115*	*90*
5	Pink			8.7	100.1	130	120
6	Red			11.4	97.4	145	120
7	*not flagged*			14.1	94.7	145	120
					Total	**855**	**720**

	System	Repair
	Lines 1-4	Lines 5-7
System Type	Accepted Status System EZ-FLOW	Accepted Status System EZ-FLOW
Suggested Soil LTAR (gal/day/ft2)	0.40	0.4
System Installation LTAR	0.35	0.35
Total Line Length	360	360
Square Footage	1080	1080
Proposed Trench Bottom	18"	18"
Distribution Method	Gravity to D-Box	Gravity to D-Box

Notes: TBM is cut tree below line #9