



Soil & Environmental Consultants, PA

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***Final Revised (All sheets)**

FACSIMILE SHEET

FAX NO. (919) 846-9467

DATE: 11/1/07 / 11/9/07

TO: NAME: Oliver T.

COMPANY: HCEC

FAX NUMBER: 910-893-9429

Project Number: 8626.53

CC: _____

FROM: JASON WOOD

SUBJECT: Shemka Pines Lot 20

The following items are being faxed. Number of pages including transmittal sheet: 5

- ☐ For Your Comments/Approval
- ☐ Per Our Conversation
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- ☐ Would Like To Discuss

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- ☐ Per Your Request
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REMARKS: _____

There is a final version
for you.

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CONTACT JW AT (919) 846-5900

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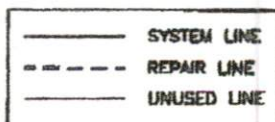
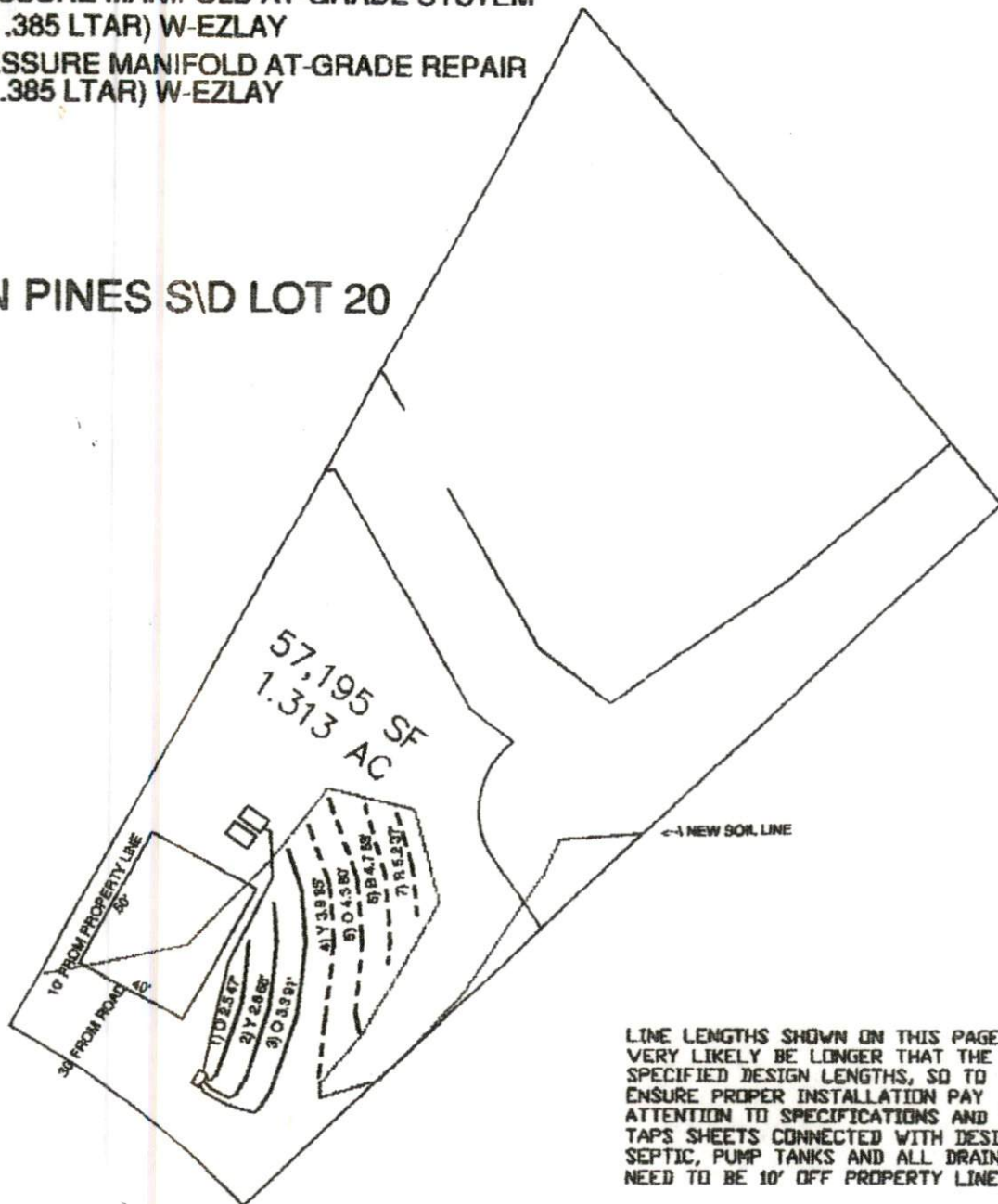
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Greensboro Office:
3817-E Lawndale Drive
Greensboro, NC 27406

11/09/2007 09:14 FAX

3-BEDROOM PRESSURE MANIFOLD AT-GRADE SYSTEM
 LINES 1,2,3 (.385 LTAR) W-EZLAY
 3-BEDROOM PRESSURE MANIFOLD AT-GRADE REPAIR
 LINES 4,5,6,7 (.385 LTAR) W-EZLAY

SHERMAN PINES S/D LOT 20



- NOT A SURVEY
- LINE NOT LOCATED
- BASE MAP PROVIDED BY CLIENT
- ACTUAL ALIGNMENT IN FIELD MAY VARY SLIGHTLY FROM MAP REPRESENTATION

PROJECT NO. 002652	SCALE 1" = 50'	SHEET TITLE: LOT 20 SEPTIC SYSTEM LAYOUT
PROJECT MGR. JW	FIELD WORK JW, CO	PROJECT NAME: SHERMAN PINES
DRAWN BY JW		HARNETT COUNTY, NORTH CAROLINA SEPT. 2007



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SHERMAN PINES LOT 20

Project No. 8626.S3

LAYOUT FOR 3 BEDROOM HOME

SEPT. 2007

<u>LINE #</u>	<u>FLAG</u> <u>COLOR</u>	<u>BS</u>	<u>HI</u>	<u>FS</u>	<u>ELEVATION</u>	<u>FLAGGED</u> <u>LINE LENGTH</u>	<u>DESIGN</u> <u>LINE LENGTH</u>
TBM	2.8				100.00		
INSTR. 1			100.00				
*1	ORANGE			2.50	97.50	35	NOT USED
*2	YELLOW			2.80	97.20	58	55
*3	ORANGE			3.30	96.70	80	80
4	YELLOW			3.90	96.10	100	100
5	ORANGE			4.30	95.70	120	120
6	BLUE			4.70	95.30	120	120
7	RED			5.20	94.80	105	105

Total 618 580

	<u>LINE</u> <u>LENGTH</u>	<u>LTAR</u> <u>GPD/FT²</u>	<u>SYSTEM</u> <u>TYPE</u>	<u>SOIL</u> <u>LTAR</u> <u>GPD/FT²</u>	<u>INNOVATIVE</u> <u>SYSTEM</u>	<u>DISTRIBUTION</u>
* System	300	0.385	AT-GRADE	0.385	EZ-Flow	Pressure Manifold
Repair	280	0.385	AT-GRADE	0.385	EZ-Flow	Pressure Manifold

Notes: TBM GRD AT OFFSITE STAKE

**TBM is assumed to be 100'.

**All measures in feet.

**Nitrification lines are demonstrated on contour via colored pin flags.

**BS, HI, and FS indicate rod readings.

SHERMAN PINES LOT 20 SYSTEM

<u>Line #</u>	<u>Color</u>	<u>Elevation</u>	<u>Length</u>	<u>Hole Size</u>	<u>Flow/Tap</u>	<u>gpd</u>	<u>Trench Area</u>	<u>Line LTAR</u>
1	ORANGE	2.8	47	SCH 80 1/2	5.48	86.95	141	0.6166
2	YELLOW	2.8	66	SCH 40 1/2	7.11	112.81	198	0.5697
3	ORANGE	3.3	91	SCH 80 3/4	10.1	160.25	273	0.5870

total feet = 204 gal/min = 22.69

Des. Flow 360

Pump Run= 15.87

soil LTAR 0.385

(EZLAY Itar +5%) 0.40425

LTAR with INNOV. + 5% 0.59230769

LTAR with INNOV. 0.62192308

100% Dose Volume 132.76

Percent Dose Volume 75%

Total 99.57

Pump Run Time 4.39

SHERMAN PINES LOT 20 REPAIR

<u>Line #</u>	<u>Color</u>	<u>Elev</u>	<u>Length</u>	<u>Hole Size</u>	<u>Flow/Tap</u>	<u>gpd</u>	<u>Trench Area</u>	<u>Line LTAR</u>
4	YELLOW	3.9	85	SCH 80 3/4	10.1	103.32	255	0.4052
5	ORANGE	4.3	80	SCH 40 3/4	12.5	127.88	240	0.5328
6	BLUE	4.7	50	SCH 40 1/2	7.11	72.74	150	0.4849
7	RED	5.2	35	SCH 80 1/2	5.48	56.06	105	0.5339

total feet = 250 gal/min = 35.19

Des. Flow 360

Pump Run= 10.23

LTAR 0.385

LTAR + 5% 0.40425

LTAR w / INNOV 0.51333333

LTAR w / INNOV + 5% 0.539

100% Dose Volume 162.69

Percent Dose Volume 87%

Total 141.54

Pump Run Time 4.02