

## SOIL SUMMARY REPORT

### General Information:

Date: April 27, 2020 Franklin County Health Department

Applicant: American Electric Power Company

Telephone No. \_\_\_\_\_

Address: c/o Woltz & Associates 23 Franklin Road Roanoke, Va. 24011

Location: Rt. 663

Subdivision: The Shores of Penn Hall

Section: \_\_\_\_\_

Lot: 11

### Soil Information Summary:

Drain Field K LOCATED ON LOT 11

Slope: 12 %

Depth to rock/impervious strata: Max. \_\_\_\_\_ Min. \_\_\_\_\_ None X

Depth to seasonal water table: (gray mottling or gray color) No  Yes  \_\_\_\_\_ Inches

Free water present: No  Yes  \_\_\_\_\_ Range in Inches

Soil percolation rate estimated: Yes  Texture group II

No  Estimated rate 45 min/inch

Proposed Drainfield 5-70'x 3' Lines installed at 54 Inches Deep

Name and title of evaluator: Tim Parker AOSE# 1098

**SOIL EVALUATION FORM**

**Subdivision** The Shores of Penn Hall      **Lot** 11      **Drain Field** K

Hole #	Horizon	Depth (inches)	Description of color, texture, etc.	Texture Group
1	A/E	0-4	5 YR 4/4 light Clay Loam	III
	Bt	4-39	2.5 YR 4/8 Clay Loam with few mica	III
	C	39-72	2.5 YR 5/8 Loam with common mica	II
2	A/E	0-5	5 YR 4/4 light Clay Loam	III
	Bt	5-38	2.5 YR 4/8 Clay Loam with mica	III
	C	38-72	2.5 YR 5/8 Loam with common mica	II
3	A/E	0-4	5 YR 4/4 light Clay Loam	III
	Bt	4-36	2.5 YR 4/8 Clay Loam with mica	III
	C	36-72	2.5 YR 5/8 Loam with common mica	II

Remarks: Clifford Soil Series

Name and title of evaluator: Tim Parker AOSE# 1098

## Abbreviated Design Form

## “Appendix 6”

For use with gravity and pump drainfields, enhanced flow systems and low pressure distributions systems when applying for a certification letter of subdivision approval.

**Design Basis** Subdivision The Shores of Penn Hall Lot 11 D/F K

- A. Estimated Percolation Rate 45
- B. Trench bottom square feet  
Required per bedroom  
(from Table 4.6 based on  Gravity  LPD) 344 ft<sup>2</sup>
- C. Number of Bedrooms 3

**Area Calculations**

- D. Length of trench 70 ft. Length of available area 70 ft.
- E. Width of trench 3 ft.
- F. Number of trenches 5
- G. Center-to-center spacing 10 ft.
- H. Width required  $[G(F-1)+E]$  43 ft. Width of available area 43 ft.
- I. Total square footage required (BxC) 1032 ft<sup>2</sup>
- J. Square footage in design (DxExF) 1050 ft<sup>2</sup>
- K. Is a reserve required?  No  Yes \_\_\_\_\_ Lines at \_\_\_\_\_ Inches Deep
- L. Slope Type: Side Slope

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Address: c/o Woltz & Associates 23 Franklin Road Roanoke, Va. 24011

Location: Rt. 663

Subdivision: The Shores of Penn Hall

Section: \_\_\_\_\_

Lot: 12

### Soil Information Summary:

Drain Field L                      LOCATED ON LOT 12

Slope: 7 %

Depth to rock/impervious strata: Max. \_\_\_\_\_ Min. \_\_\_\_\_ None X

Depth to seasonal water table: (gray mottling or gray color) No  Yes  \_\_\_\_\_ Inches

Free water present:      No  Yes  \_\_\_\_\_ Range in Inches

Soil percolation rate estimated: Yes  Texture group    **III**

No  Estimated rate 50 min/inch

Proposed Drainfield 5-80'x 3' Lines installed at 54 Inches Deep

Name and title of evaluator: Tim Parker AOSE# 1098

**SOIL EVALUATION FORM**Subdivision The Shores of Penn Hall Lot 12 Drain Field L

Hole #	Horizon	Depth (inches)	Description of color, texture, etc.	Texture Group
1	A/E	0-2	7.5 YR 4/3 light Clay Loam	III
	Bt	2-25	2.5 YR 4/8 Clay Loam with few mica	III
	C	25-72	2.5 YR 5/8 Loam with common mica	II
2	A/E	0-4	7.5 YR 4/3 light Clay Loam	III
	Bt	4-40	2.5 YR 4/8 Clay Loam with mica	III
	C	40-72	5 YR 5/8 light Clay Loam	III
3	A/E	0-3	7.5 YR 4/3 light Clay Loam	III
	Bt	3-40	2.5 YR 4/8 Clay Loam with mica	III
	C	40-72	5 YR 5/8 light Clay Loam	III

Remarks: Clifford Soil Series

Name and title of evaluator: Tim Parker AOSE# 1098

## Abbreviated Design Form

## “Appendix 6”

For use with gravity and pump drainfields, enhanced flow systems and low pressure distributions systems when applying for a certification letter of subdivision approval.

**Design Basis** Subdivision The Shores of Penn Hall Lot 12 D/F L

- A. Estimated Percolation Rate 50
- B. Trench bottom square feet  
Required per bedroom  
(from Table 4.6 based on  Gravity  LPD) 376 ft<sup>2</sup>
- C. Number of Bedrooms 3

**Area Calculations**

- D. Length of trench 80 ft. Length of available area 80 ft.
- E. Width of trench 3 ft.
- F. Number of trenches 5
- G. Center-to-center spacing 9 ft.
- H. Width required  $[G(F-1)+E]$  39 ft. Width of available area 66 ft.
- I. Total square footage required (BxC) 1128 ft<sup>2</sup>
- J. Square footage in design (DxExF) 1200 ft<sup>2</sup>
- K. Is a reserve required?  No  Yes 3-80'x 3' Lines at 54 Inches Deep
- L. Slope Type: Side Slope

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Applicant: American Electric Power Company

Telephone No. \_\_\_\_\_

Address: c/o Woltz & Associates 23 Franklin Road Roanoke , Va. 24011

Location: Rt. 663

Subdivision: The Shores of Penn Hall

Section: \_\_\_\_\_

Lot: 13

### Soil Information Summary:

Drain Field M                      LOCATED ON LOT 13

Slope: 11 %

Depth to rock/impervious strata: Max. \_\_\_\_\_ Min. \_\_\_\_\_ None X

Depth to seasonal water table: (gray mottling or gray color) No  Yes  \_\_\_\_\_ Inches

Free water present:      No  Yes  \_\_\_\_\_ Range in Inches

Soil percolation rate estimated: Yes  Texture group    **II**

No  Estimated rate 45 min/inch

Proposed Drainfield 5-70'x 3' Lines installed at 54 Inches Deep

Name and title of evaluator: Tim Parker AOSE# 1098

**SOIL EVALUATION FORM**

**Subdivision** The Shores of Penn Hall      **Lot** 13      **Drain Field** M

Hole #	Horizon	Depth (inches)	Description of color, texture, etc.	Texture Group
1	A/E	0-3	5 YR 4/3 light Clay Loam	III
	Bt	3-27	2.5 YR 4/8 Clay Loam with few mica	III
	C	27-72	7.5 YR 5/6 Loam with common mica	II
2	A/E	0-4	5 YR 4/3 light Clay Loam	III
	Bt	4-37	2.5 YR 4/8 Clay Loam with mica	III
	C	37-72	5 YR 5/8 Loam with common mica	II
3	A/E	0-3	5 YR 4/3 light Clay Loam	III
	Bt	3-25	2.5 YR 4/8 Clay Loam with mica	III
	C	25-72	7.5 YR 5/8 Loam with common mica	II

Remarks: Clifford Soil Series

Name and title of evaluator: Tim Parker AOSE# 1098



## Abbreviated Design Form

## “Appendix 6”

For use with gravity and pump drainfields, enhanced flow systems and low pressure distributions systems when applying for a certification letter of subdivision approval.

**Design Basis** Subdivision The Shores of Penn Hall Lot 13 D/F M

- A. Estimated Percolation Rate 45
- B. Trench bottom square feet  
Required per bedroom  
(from Table 4.6 based on  Gravity  LPD) 344 ft<sup>2</sup>
- C. Number of Bedrooms 3

**Area Calculations**

- D. Length of trench 70 ft. Length of available area 70 ft.
- E. Width of trench 3 ft.
- F. Number of trenches 5
- G. Center-to-center spacing 10 ft.
- H. Width required  $[G(F-1)+E]$  43 ft. Width of available area 43 ft.
- I. Total square footage required (BxC) 1032 ft<sup>2</sup>
- J. Square footage in design (DxExF) 1050 ft<sup>2</sup>
- K. Is a reserve required?  No  Yes \_\_\_\_\_ Lines at \_\_\_ Inches Deep
- L. Slope Type: Side Slope

## SOIL SUMMARY REPORT

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Address: c/o Woltz & Associates 23 Franklin Road Roanoke, Va. 24011

Location: Rt. 663

Subdivision: The Shores of Penn Hall

Section: \_\_\_\_\_

Lot: 14

### Soil Information Summary:

Drain Field N                      LOCATED ON LOT 14

Slope: 12 %

Depth to rock/impervious strata: Max. \_\_\_\_\_ Min. \_\_\_\_\_ None X

Depth to seasonal water table: (gray mottling or gray color) No  Yes  \_\_\_\_\_ Inches

Free water present:      No  Yes  \_\_\_\_\_ Range in Inches

Soil percolation rate estimated: Yes  Texture group    **II**

No  Estimated rate 45 min/inch

Proposed Drainfield 5-70'x 3' Lines installed at 48 Inches Deep

Name and title of evaluator: Tim Parker AOSE# 1098

**SOIL EVALUATION FORM**Subdivision The Shores of Penn Hall Lot 14 Drain Field N

Hole #	Horizon	Depth (inches)	Description of color, texture, etc.	Texture Group
1	A/E	0-3	5 YR 4/3 light Clay Loam	III
	Bt	3-35	2.5 YR 4/8 Clay Loam with few mica	III
	C	35-72	2.5 YR 4/6 Loam with common mica	II
2	A/E	0-3	5 YR 4/3 light Clay Loam	III
	Bt	3-35	2.5 YR 4/8 Clay Loam with mica	III
	C	35-72	10 YR 5/6 Loam with common mica	II
3	A/E	0-3	5 YR 4/3 light Clay Loam	III
	Bt	3-36	2.5 YR 4/8 Clay Loam with mica	III
	C	36-72	7.5 YR 5/8 Loam	II

Remarks: Clifford Soil Series

Name and title of evaluator: Tim Parker AOSE# 1098

## Abbreviated Design Form

## “Appendix 6”

For use with gravity and pump drainfields, enhanced flow systems and low pressure distributions systems when applying for a certification letter of subdivision approval.

**Design Basis** Subdivision The Shores of Penn Hall Lot 14 D/F N

- A. Estimated Percolation Rate 45
- B. Trench bottom square feet  
Required per bedroom  
(from Table 4.6 based on  Gravity  LPD) 344 ft<sup>2</sup>
- C. Number of Bedrooms 3

**Area Calculations**

- D. Length of trench 70 ft. Length of available area 70 ft.
- E. Width of trench 3 ft.
- F. Number of trenches 5
- G. Center-to-center spacing 10 ft.
- H. Width required  $[G(F-1)+E]$  43 ft. Width of available area 43 ft.
- I. Total square footage required (BxC) 1032 ft<sup>2</sup>
- J. Square footage in design (DxExF) 1050 ft<sup>2</sup>
- K. Is a reserve required?  No  Yes \_\_\_\_\_ Lines at \_\_\_ Inches Deep
- L. Slope Type: Side Slope

## SOIL SUMMARY REPORT

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Location: Rt. 663

Subdivision: The Shores of Penn Hall

Section: \_\_\_\_\_

Lot: 15

### Soil Information Summary:

Drain Field 0                      LOCATED ON LOT 15

Slope: 13 %

Depth to rock/impervious strata: Max. \_\_\_\_\_ Min. \_\_\_\_\_ None X

Depth to seasonal water table: (gray mottling or gray color) No  Yes  \_\_\_\_\_ Inches

Free water present:      No  Yes  \_\_\_\_\_ Range in Inches

Soil percolation rate estimated: Yes  Texture group    **II**

No  Estimated rate 45 min/inch

Proposed Drainfield 5-70'x 3' Lines installed at 48 Inches Deep

Name and title of evaluator: Tim Parker AOSE# 1098

**SOIL EVALUATION FORM**

**Subdivision** The Shores of Penn Hall    **Lot** 15    **Drain Field** O

Hole #	Horizon	Depth (inches)	Description of color, texture, etc.	Texture Group
1	A/E	0-3	7.5 YR 4/3 light Clay Loam	III
	Bt	3-36	2.5 YR 4/8 Clay Loam with few mica	III
	C	36-72	2.5 YR 4/8 Loam with common mica	II
2	A/E	0-4	7.5 YR 4/3 light Clay Loam	III
	Bt	4-32	2.5 YR 4/8 Clay Loam with mica	III
	C	32-72	5 YR 5/8 Loam with few mica	II
3	A/E	0-4	7.5 YR 4/3 light Clay Loam	III
	Bt	4-35	2.5 YR 4/8 Clay Loam with mica	III
	C	35-72	2.5 YR 4/8 Loam with common mica	II

Remarks: Clifford Soil Series

Name and title of evaluator: Tim Parker AOSE# 1098

## Abbreviated Design Form

## “Appendix 6”

For use with gravity and pump drainfields, enhanced flow systems and low pressure distributions systems when applying for a certification letter of subdivision approval.

**Design Basis** Subdivision The Shores of Penn Hall Lot 15 D/F O

- A. Estimated Percolation Rate 45
- B. Trench bottom square feet  
Required per bedroom  
(from Table 4.6 based on  Gravity  LPD) 344 ft<sup>2</sup>
- C. Number of Bedrooms 3

**Area Calculations**

- D. Length of trench 70 ft. Length of available area 70 ft.
- E. Width of trench 3 ft.
- F. Number of trenches 5
- G. Center-to-center spacing 10 ft.
- H. Width required  $[G(F-1)+E]$  43 ft. Width of available area 43 ft.
- I. Total square footage required (BxC) 1032 ft<sup>2</sup>
- J. Square footage in design (DxExF) 1050 ft<sup>2</sup>
- K. Is a reserve required?  No  Yes \_\_\_\_\_ Lines at \_\_\_ Inches Deep
- L. Slope Type: Side Slope

## SOIL SUMMARY REPORT

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Address: c/o Woltz & Associates 23 Franklin Road Roanoke , Va. 24011

Location: Rt. 663

Subdivision: The Shores of Penn Hall

Section: \_\_\_\_\_

Lot: 16

### Soil Information Summary:

Drain Field P                      LOCATED ON LOT 16

Slope: 6 %

Depth to rock/impervious strata: Max. \_\_\_\_\_ Min. \_\_\_\_\_ None X

Depth to seasonal water table: (gray mottling or gray color) No  Yes  \_\_\_\_\_ Inches

Free water present:      No  Yes  \_\_\_\_\_ Range in Inches

Soil percolation rate estimated: Yes  Texture group    **II**

No  Estimated rate 40 min/inch

Proposed Drainfield 5-65'x 3' Lines installed at 54 Inches Deep

Name and title of evaluator: Tim Parker AOSE# 1098



**SOIL EVALUATION FORM**

**Subdivision** The Shores of Penn Hall    **Lot** 16    **Drain Field** P

Hole #	Horizon	Depth (inches)	Description of color, texture, etc.	Texture Group
1	A/E	0-3	7.5 YR 4/6 Loam light Clay Loam	II
	Bt	3-37	2.5 YR 4/8 Clay Loam with few mica	III
	C	37-72	2.5 YR 4/8 micaceous Loam	II
2	A/E	0-4	7.5 YR 4/6 Loam	II
	Bt	4-36	2.5 YR 4/8 Clay Loam with mica	III
	C1	36-63	2.5 YR 4/8 Loam with common mica	II
	C2	63-72	7.5 YR 5/8 fine Sandy Loam	II
3	A/E	0-4	7.5 YR 4/6 Loam	II
	Bt	4-37	2.5 YR 4/8 Clay Loam with mica	III
	C1	37-59	2.5 YR 4/8 Loam with common mica	II
	C2	59-72	5 YR 5/6 fine Sandy Loam	II

Remarks: Clifford Soil Series

Name and title of evaluator: Tim Parker AOSE# 1098

## Abbreviated Design Form

## “Appendix 6”

For use with gravity and pump drainfields, enhanced flow systems and low pressure distributions systems when applying for a certification letter of subdivision approval.

**Design Basis** Subdivision The Shores of Penn Hall Lot 16 D/F P

- A. Estimated Percolation Rate 40
- B. Trench bottom square feet  
Required per bedroom  
(from Table 4.6 based on  Gravity  LPD) 314 ft<sup>2</sup>
- C. Number of Bedrooms 3

**Area Calculations**

- D. Length of trench 65 ft. Length of available area 70 ft.
- E. Width of trench 3 ft.
- F. Number of trenches 5
- G. Center-to-center spacing 9 ft.
- H. Width required [G(F-1)+E] 39 ft. Width of available area 40 ft.
- I. Total square footage required (BxC) 942 ft<sup>2</sup>
- J. Square footage in design (DxExF) 975 ft<sup>2</sup>
- K. Is a reserve required?  No  Yes \_\_\_\_\_ Lines at \_\_\_ Inches Deep
- L. Slope Type: Side Slope

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Telephone No. \_\_\_\_\_

Address: c/o Woltz & Associates 23 Franklin Road Roanoke , Va. 24011

Location: Rt. 663

Subdivision: The Shores of Penn Hall

Section: \_\_\_\_\_

Lot: 17

### Soil Information Summary:

Drain Field Q                      LOCATED ON LOT 17

Slope: 8 %

Depth to rock/impervious strata: Max. \_\_\_\_\_ Min. \_\_\_\_\_ None X

Depth to seasonal water table: (gray mottling or gray color) No  Yes  \_\_\_\_\_ Inches

Free water present:      No  Yes  \_\_\_\_\_ Range in Inches

Soil percolation rate estimated: Yes  Texture group    **II**

No  Estimated rate 40 min/inch

Proposed Drainfield 4-80'x 3' Lines installed at 48 Inches Deep

Name and title of evaluator: Tim Parker AOSE# 1098

**SOIL EVALUATION FORM**Subdivision The Shores of Penn Hall Lot 17 Drain Field Q

Hole #	Horizon	Depth (inches)	Description of color, texture, etc.	Texture Group
1	A/E	0-4	5 YR 4/6 light Clay Loam	III
	Bt	4-27	2.5 YR 4/8 Clay Loam with few mica	III
	C1	27-63	2.5 YR 4/8 Loam with common mica	II
	C2	63-72	7.5 YR 5/8 Loam with common mica	II
2	A/E	0-4	5 YR 4/6 light Clay Loam	III
	Bt	4-35	2.5 YR 4/8 Clay Loam with mica	III
	C1	35-55	2.5 YR 4/8 Loam with common mica	II
	C2	55-72	5 YR 5/8 Loam with common mica	II
3	A/E	0-4	5 YR 4/6 light Clay Loam	III
	Bt	4-36	2.5 YR 4/8 Clay Loam with mica	III
	C	36-72	2.5 YR 4/8 Loam with common mica	II

Remarks: Clifford Soil Series

Name and title of evaluator: Tim Parker AOSE# 1098

## Abbreviated Design Form

## “Appendix 6”

For use with gravity and pump drainfields, enhanced flow systems and low pressure distributions systems when applying for a certification letter of subdivision approval.

**Design Basis** Subdivision The Shores of Penn Hall Lot 17 D/F Q

- A. Estimated Percolation Rate 40
- B. Trench bottom square feet  
Required per bedroom  
(from Table 4.6 based on  Gravity  LPD) 314 ft<sup>2</sup>
- C. Number of Bedrooms 3

**Area Calculations**

- D. Length of trench 80 ft. Length of available area 80 ft.
- E. Width of trench 3 ft.
- F. Number of trenches 4
- G. Center-to-center spacing 9 ft.
- H. Width required  $[G(F-1)+E]$  30 ft. Width of available area 33 ft.
- I. Total square footage required (BxC) 942 ft<sup>2</sup>
- J. Square footage in design (DxExF) 960 ft<sup>2</sup>
- K. Is a reserve required?  No  Yes \_\_\_\_\_ Lines at \_\_\_ Inches Deep
- L. Slope Type: Side Slope

## SOIL SUMMARY REPORT

### General Information:

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Telephone No. \_\_\_\_\_

Address: c/o Woltz & Associates 23 Franklin Road Roanoke, Va. 24011

Location: Rt. 663

Subdivision: The Shores of Penn Hall

Section: \_\_\_\_\_

Lot: 18

### Soil Information Summary:

Drain Field R LOCATED ON LOT 18

Slope: 8 %

Depth to rock/impervious strata: Max. 72" Min. 50" None \_\_\_\_\_

Depth to seasonal water table: (gray mottling or gray color) No  Yes  \_\_\_\_\_ Inches

Free water present: No  Yes  \_\_\_\_\_ Range in Inches

Soil percolation rate estimated: Yes  Texture group **III**

No  Estimated rate 75 min/inch

Proposed Drainfield 6-100'x 3' Lines installed at 30 Inches Deep

Name and title of evaluator: Tim Parker AOSE# 1098

**SOIL EVALUATION FORM****Subdivision** The Shores of Penn Hall **Lot** 18**Drain Field** R

Hole #	Horizon	Depth (inches)	Description of color, texture, etc.	Texture Group
1	A/E	0-4	5 YR 4/6 light Clay Loam	III
	Bt	4-50	2.5 YR 4/8 Clay Loam with few mica	III
	R	50	Auger Refusal on mafic rock	
2	A/E	0-4	5 YR 4/6 light Clay Loam	III
	Bt	4-45	2.5 YR 4/8 Clay Loam with mica	III
	C	45-72	2.5 YR 4/8 Loam with common mica	II
3	A/E	0-5	5 YR 4/6 light Clay Loam	III
	Bt	5-36	2.5 YR 4/8 Clay Loam with mica	III
	C	36-72	5YR 5/8 Loam with common mica	II

Remarks: Clifford Soil Series

Name and title of evaluator: Tim Parker AOSE# 1098

## Abbreviated Design Form

## “Appendix 6”

For use with gravity and pump drainfields, enhanced flow systems and low pressure distributions systems when applying for a certification letter of subdivision approval.

**Design Basis** Subdivision The Shores of Penn Hall Lot 18 D/F R

- A. Estimated Percolation Rate 75
- B. Trench bottom square feet  
Required per bedroom  
(from Table 4.6 based on  Gravity  LPD) 596 ft<sup>2</sup>
- C. Number of Bedrooms 3

**Area Calculations**

- D. Length of trench 100 ft. Length of available area 100 ft.
- E. Width of trench 3 ft.
- F. Number of trenches 6
- G. Center-to-center spacing 9 ft.
- H. Width required  $[G(F-1)+E]$  75 ft. Width of available area 75 ft.
- I. Total square footage required (BxC) 1788 ft<sup>2</sup>
- J. Square footage in design (DxExF) 1800 ft<sup>2</sup>
- K. Is a reserve required?  No  Yes 3-100'x 3' Lines at 30 Inches Deep
- L. Slope Type: Side Slope



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Applicant: American Electric Power Company

Telephone No. \_\_\_\_\_

Address: c/o Woltz & Associates 23 Franklin Road Roanoke , Va. 24011

Location: Rt. 663

Subdivision: The Shores of Penn Hall

Section: \_\_\_\_\_

Lot: 19

### Soil Information Summary:

Drain Field S                      LOCATED ON LOT 19

Slope: 5 %

Depth to rock/impervious strata: Max. \_\_\_\_\_ Min. \_\_\_\_\_ None X

Depth to seasonal water table: (gray mottling or gray color) No  Yes  \_\_\_\_\_ Inches

Free water present:      No  Yes  \_\_\_\_\_ Range in Inches

Soil percolation rate estimated: Yes  Texture group    **II**

No  Estimated rate 45 min/inch

Proposed Drainfield 5-70'x 3' Lines installed at 54 Inches Deep

Name and title of evaluator: Tim Parker AOSE# 1098

**SOIL EVALUATION FORM**Subdivision The Shores of Penn Hall Lot 19 Drain Field S

Hole #	Horizon	Depth (inches)	Description of color, texture, etc.	Texture Group
1	A/E	0-3	5 YR 4/6 light Clay Loam	III
	Bt	3-34	2.5 YR 4/8 Clay Loam with few mica	III
	C	34-72	2.5 YR 5/8 Loam with common mica	II
2	A/E	0-3	5 YR 4/6 light Clay Loam	III
	Bt	3-35	2.5 YR 4/8 Clay Loam with mica	III
	C	35-72	2.5 YR 5/8 Loam with common mica	II
3	A/E	0-3	5 YR 4/6 light Clay Loam	III
	Bt	3-37	2.5 YR 4/8 Clay Loam with mica	III
	C1	37-47	2.5 YR 4/8 Loam with common mica	II
	C2	47-72	7.5 YR 5/8 micaceous Loam	II

Remarks: Clifford Soil Series

Name and title of evaluator: Tim Parker AOSE# 1098

## Abbreviated Design Form

## “Appendix 6”

For use with gravity and pump drainfields, enhanced flow systems and low pressure distributions systems when applying for a certification letter of subdivision approval.

**Design Basis** Subdivision The Shores of Penn Hall Lot 19 D/F S

- A. Estimated Percolation Rate 45
- B. Trench bottom square feet  
Required per bedroom  
(from Table 4.6 based on  Gravity  LPD) 344 ft<sup>2</sup>
- C. Number of Bedrooms 3

**Area Calculations**

- D. Length of trench 70 ft. Length of available area 70 ft.
- E. Width of trench 3 ft.
- F. Number of trenches 5
- G. Center-to-center spacing 9 ft.
- H. Width required  $[G(F-1)+E]$  39 ft. Width of available area 39 ft.
- I. Total square footage required (BxC) 1032 ft<sup>2</sup>
- J. Square footage in design (DxExF) 1050 ft<sup>2</sup>
- K. Is a reserve required?  No  Yes \_\_\_\_\_ Lines at \_\_\_ Inches Deep
- L. Slope Type: Side Slope

## SOIL SUMMARY REPORT

### General Information:

Date: April 27, 2020      Franklin County Health Department

Applicant: American Electric Power Company

Telephone No. \_\_\_\_\_

Address: c/o Woltz & Associates 23 Franklin Road Roanoke , Va. 24011

Location: Rt. 663

Subdivision: The Shores of Penn Hall

Section: \_\_\_\_\_

Lot: 20

### Soil Information Summary:

Drain Field T                      LOCATED ON LOT 20

Slope: 7 %

Depth to rock/impervious strata: Max. \_\_\_\_\_ Min. \_\_\_\_\_ None X

Depth to seasonal water table: (gray mottling or gray color) No  Yes  \_\_\_\_\_ Inches

Free water present:      No  Yes  \_\_\_\_\_ Range in Inches

Soil percolation rate estimated: Yes  Texture group    **II**

No  Estimated rate 45 min/inch

Proposed Drainfield 5-70'x 3' Lines installed at 54 Inches Deep

Name and title of evaluator: Tim Parker AOSE# 1098

**SOIL EVALUATION FORM**

**Subdivision** The Shores of Penn Hall    **Lot** 20    **Drain Field** T

Hole #	Horizon	Depth (inches)	Description of color, texture, etc.	Texture Group
1	A/E	0-3	7.5 YR 4/6 light Clay Loam	III
	Bt	3-41	2.5 YR 4/8 Clay Loam with few mica	III
	C	41-72	5 YR 5/8 Loam	II
2	A/E	0-3	7.5 YR 4/6 light Clay Loam	III
	Bt	3-40	2.5 YR 4/8 Clay Loam	III
	C	40-72	5 YR 5/8 Loam	II
3	A/E	0-3	7.5 YR 4/6 light Clay Loam	III
	Bt	3-38	2.5 YR 4/8 Clay Loam	III
	C	38-72	5 YR 5/8 Loam with few fine mica	II

Remarks: Clifford Soil Series

Name and title of evaluator: Tim Parker AOSE# 1098

## Abbreviated Design Form

## “Appendix 6”

For use with gravity and pump drainfields, enhanced flow systems and low pressure distributions systems when applying for a certification letter of subdivision approval.

**Design Basis** Subdivision The Shores of Penn Hall Lot 20 D/F T

- A. Estimated Percolation Rate 45
- B. Trench bottom square feet  
Required per bedroom  
(from Table 4.6 based on  Gravity  LPD) 344 ft<sup>2</sup>
- C. Number of Bedrooms 3

**Area Calculations**

- D. Length of trench 70 ft. Length of available area 70 ft.
- E. Width of trench 3 ft.
- F. Number of trenches 5
- G. Center-to-center spacing 9 ft.
- H. Width required  $[G(F-1)+E]$  39 ft. Width of available area 39 ft.
- I. Total square footage required (BxC) 1032 ft<sup>2</sup>
- J. Square footage in design (DxExF) 1050 ft<sup>2</sup>
- K. Is a reserve required?  No  Yes \_\_\_\_\_ Lines at \_\_\_ Inches Deep
- L. Slope Type: Side Slope

## SOIL SUMMARY REPORT

### General Information:

Date: April 27, 2020      Franklin County Health Department

Applicant: American Electric Power Company

Telephone No. \_\_\_\_\_

Address: c/o Woltz & Associates 23 Franklin Road Roanoke , Va. 24011

Location: Rt. 663

Subdivision: The Shores of Penn Hall \_\_\_\_\_

Section: \_\_\_\_\_

Lot: 21

### Soil Information Summary:

Drain Field U                      LOCATED ON LOT 21

Slope: 11 %

Depth to rock/impervious strata: Max. \_\_\_\_\_ Min. \_\_\_\_\_ None X

Depth to seasonal water table: (gray mottling or gray color) No  Yes  \_\_\_\_\_ Inches

Free water present:      No  Yes  \_\_\_\_\_ Range in Inches

Soil percolation rate estimated: Yes  Texture group    **II**

No  Estimated rate 45 min/inch

Proposed Drainfield 5-70'x 3' Lines installed at 54 Inches Deep

Name and title of evaluator: Tim Parker AOSE# 1098

**SOIL EVALUATION FORM**

**Subdivision** The Shores of Penn Hall    **Lot** 21    **Drain Field** U

Hole #	Horizon	Depth (inches)	Description of color, texture, etc.	Texture Group
1	A/E	0-3	7.5 YR 4/6 light Clay Loam	III
	Bt	3-27	2.5 YR 4/8 Clay Loam with few mica	III
	C	27-72	5 YR 5/8 Loam with common fine mica	II
2	A/E	0-3	7.5 YR 4/6 light Clay Loam	III
	Bt	3-32	2.5 YR 4/8 Clay Loam with mica	III
	C	32-72	5 YR 4/6 Loam with common fine mica	II
3	A/E	0-4	7.5 YR 4/6 light Clay Loam	III
	Bt	4-32	2.5 YR 4/8 Clay Loam with mica	III
	C	32-72	5 YR 5/8 Loam with common fine mica	II

Remarks: Clifford Soil Series

Name and title of evaluator: Tim Parker AOSE# 1098



## Abbreviated Design Form

## “Appendix 6”

For use with gravity and pump drainfields, enhanced flow systems and low pressure distributions systems when applying for a certification letter of subdivision approval.

**Design Basis** Subdivision The Shores of Penn Hall Lot 21 D/F U

- A. Estimated Percolation Rate 45
- B. Trench bottom square feet  
Required per bedroom  
(from Table 4.6 based on  Gravity  LPD) 344 ft<sup>2</sup>
- C. Number of Bedrooms 3

**Area Calculations**

- D. Length of trench 70 ft. Length of available area 70 ft.
- E. Width of trench 3 ft.
- F. Number of trenches 5
- G. Center-to-center spacing 10 ft.
- H. Width required  $[G(F-1)+E]$  43 ft. Width of available area 43 ft.
- I. Total square footage required (BxC) 1032 ft<sup>2</sup>
- J. Square footage in design (DxExF) 1050 ft<sup>2</sup>
- K. Is a reserve required?  No  Yes \_\_\_\_\_ Lines at \_\_\_ Inches Deep
- L. Slope Type: Side Slope

## SOIL SUMMARY REPORT

### General Information:

Date: April 27, 2020      Franklin County Health Department

Applicant: American Electric Power Company

Telephone No. \_\_\_\_\_

Address: c/o Woltz & Associates 23 Franklin Road Roanoke , Va. 24011

Location: Rt. 663

Subdivision: The Shores of Penn Hall

Section: \_\_\_\_\_

Lot: 22

### Soil Information Summary:

Drain Field V                      LOCATED ON LOT 22

Slope: 7 %

Depth to rock/impervious strata: Max. \_\_\_\_\_ Min. \_\_\_\_\_ None X

Depth to seasonal water table: (gray mottling or gray color) No  Yes  \_\_\_\_\_ Inches

Free water present:      No  Yes  \_\_\_\_\_ Range in Inches

Soil percolation rate estimated: Yes  Texture group    **II**

No  Estimated rate 40 min/inch

Proposed Drainfield 5-65'x 3' Lines installed at 72 Inches Deep

Name and title of evaluator: Tim Parker AOSE# 1098

**SOIL EVALUATION FORM**Subdivision The Shores of Penn Hall Lot 22 Drain Field V

Hole #	Horizon	Depth (inches)	Description of color, texture, etc.	Texture Group
1	A/E	0-4	7.5 YR 4/6 light Clay Loam	III
	Bt	4-57	2.5 YR 4/8 Clay Loam with few mica	III
	C	57-97	7.5 YR 5/8 fine Sandy Loam	II
2	A/E	0-4	7.5 YR 4/6 light Clay Loam	III
	Bt	4-48	2.5 YR 4/8 Clay Loam with mica	III
	C	48-95	2.5 YR 5/8 fine Sandy Loam	II
3	A/E	0-4	7.5 YR 4/6 light Clay Loam	III
	Bt	4-55	2.5 YR 4/8 Clay Loam with mica	III
	C	55-95	2.5 YR 5/8 fine Sandy Loam	II

Remarks: Clifford Soil Series

Name and title of evaluator: Tim Parker AOSE# 1098

## Abbreviated Design Form

## “Appendix 6”

For use with gravity and pump drainfields, enhanced flow systems and low pressure distributions systems when applying for a certification letter of subdivision approval.

**Design Basis** Subdivision The Shores of Penn Hall Lot 22 D/F V

- A. Estimated Percolation Rate 40
- B. Trench bottom square feet  
Required per bedroom  
(from Table 4.6 based on  Gravity  LPD) 314 ft<sup>2</sup>
- C. Number of Bedrooms 3

**Area Calculations**

- D. Length of trench 65 ft. Length of available area 70 ft.
- E. Width of trench 3 ft.
- F. Number of trenches 5
- G. Center-to-center spacing 9 ft.
- H. Width required  $[G(F-1)+E]$  39 ft. Width of available area 39 ft.
- I. Total square footage required (BxC) 942 ft<sup>2</sup>
- J. Square footage in design (DxExF) 975 ft<sup>2</sup>
- K. Is a reserve required?  No  Yes \_\_\_\_\_ Lines at \_\_\_ Inches Deep
- L. Slope Type: Side Slope

## SOIL SUMMARY REPORT

### General Information:

Date: April 27, 2020      Franklin County Health Department

Applicant: American Electric Power Company

Telephone No. \_\_\_\_\_

Address: c/o Woltz & Associates 23 Franklin Road Roanoke , Va. 24011

Location: Rt. 663

Subdivision: The Shores of Penn Hall

Section: \_\_\_\_\_

Lot: 23

### Soil Information Summary:

Drain Field W                      LOCATED ON LOT 23

Slope: 6 %

Depth to rock/impervious strata: Max. \_\_\_\_\_ Min. \_\_\_\_\_ None X

Depth to seasonal water table: (gray mottling or gray color) No  Yes  \_\_\_\_\_ Inches

Free water present:      No  Yes  \_\_\_\_\_ Range in Inches

Soil percolation rate estimated: Yes  Texture group    **III**

No  Estimated rate 60 min/inch

Proposed Drainfield 6-80'x 3' Lines installed at 54 Inches Deep

Name and title of evaluator: Tim Parker AOSE# 1098

**SOIL EVALUATION FORM****Subdivision** The Shores of Penn Hall **Lot** 23 **Drain Field** W

Hole #	Horizon	Depth (inches)	Description of color, texture, etc.	Texture Group
1	A/E	0-4	7.5 YR 4/6 light Clay Loam	III
	Bt	4-41	2.5 YR 4/8 Clay Loam with few mica	III
	C	41-72	2.5 YR 4/8 light Clay Loam with few mafic inclusions	III
2	A/E	0-4	7.5 YR 4/6 light Clay Loam	III
	Bt	4-40	2.5 YR 4/8 Clay Loam with mica	III
	C	40-72	2.5 YR 4/8 micaceous Loam	II
3	A/E	0-3	7.5 YR 4/6 light Clay Loam	III
	Bt	3-36	2.5 YR 4/8 Clay Loam with mica	III
	C	36-72	5 YR 5/8 micaceous Loam	II

Remarks: Clifford Soil Series

Name and title of evaluator: Tim Parker AOSE# 1098

## Abbreviated Design Form

## “Appendix 6”

For use with gravity and pump drainfields, enhanced flow systems and low pressure distributions systems when applying for a certification letter of subdivision approval.

**Design Basis** Subdivision The Shores of Penn Hall Lot 23 D/F W

- A. Estimated Percolation Rate 60
- B. Trench bottom square feet  
Required per bedroom  
(from Table 4.6 based on  Gravity  LPD) 452 ft<sup>2</sup>
- C. Number of Bedrooms 3

**Area Calculations**

- D. Length of trench 80 ft. Length of available area 80 ft.
- E. Width of trench 3 ft.
- F. Number of trenches 6
- G. Center-to-center spacing 9 ft.
- H. Width required  $[G(F-1)+E]$  48 ft. Width of available area 75 ft.
- I. Total square footage required (BxC) 1356 ft<sup>2</sup>
- J. Square footage in design (DxExF) 1440 ft<sup>2</sup>
- K. Is a reserve required?  No  Yes 3-80'x 3'Lines at 54 Inches Deep
- L. Slope Type: Side Slope

## SOIL SUMMARY REPORT

### General Information:

Date: April 27, 2020      Franklin County Health Department

Applicant: American Electric Power Company

Telephone No. \_\_\_\_\_

Address: c/o Woltz & Associates 23 Franklin Road Roanoke , Va. 24011

Location: Rt. 663

Subdivision: The Shores of Penn Hall

Section: \_\_\_\_\_

Lot: 24

### Soil Information Summary:

Drain Field X                      LOCATED ON LOT 24

Slope: 6 %

Depth to rock/impervious strata: Max. \_\_\_\_\_ Min. \_\_\_\_\_ None X

Depth to seasonal water table: (gray mottling or gray color) No  Yes  \_\_\_\_\_ Inches

Free water present:      No  Yes  \_\_\_\_\_ Range in Inches

Soil percolation rate estimated: Yes  Texture group    **II**

No  Estimated rate 45 min/inch

Proposed Drainfield 5-70'x 3' Lines installed at 54 Inches Deep

Name and title of evaluator: Tim Parker AOSE# 1098



**SOIL EVALUATION FORM**Subdivision The Shores of Penn Hall Lot 24 Drain Field X

Hole #	Horizon	Depth (inches)	Description of color, texture, etc.	Texture Group
1	A/E	0-4	5 YR 4/6 light Clay Loam	III
	Bt	4-41	2.5 YR 4/8 Clay Loam with few mica	III
	C	41-72	5 YR 5/8 Loam with few fine mica	II
2	A/E	0-5	5 YR 4/6 light Clay Loam	III
	Bt	5-40	2.5 YR 4/8 Clay Loam with mica	III
	C	40-72	2.5 YR 5/8 Loam with mica	II
3	A/E	0-5	5 YR 4/6 light Clay Loam	III
	Bt	5-41	2.5 YR 4/8 Clay Loam with mica	III
	C	41-72	5 YR 5/8 Loam with common fine mica	II

Remarks: Clifford Soil Series

Name and title of evaluator: Tim Parker AOSE# 1098

## Abbreviated Design Form

## “Appendix 6”

For use with gravity and pump drainfields, enhanced flow systems and low pressure distributions systems when applying for a certification letter of subdivision approval.

**Design Basis** Subdivision The Shores of Penn Hall Lot 24 D/F X

- A. Estimated Percolation Rate 45
- B. Trench bottom square feet  
Required per bedroom  
(from Table 4.6 based on  Gravity  LPD) 344 ft<sup>2</sup>
- C. Number of Bedrooms 3

**Area Calculations**

- D. Length of trench 70 ft. Length of available area 70 ft.
- E. Width of trench 3 ft.
- F. Number of trenches 5
- G. Center-to-center spacing 9 ft.
- H. Width required  $[G(F-1)+E]$  39 ft. Width of available area 39 ft.
- I. Total square footage required (BxC) 1032 ft<sup>2</sup>
- J. Square footage in design (DxExF) 1050 ft<sup>2</sup>
- K. Is a reserve required?  No  Yes \_\_\_\_\_ Lines at \_\_\_ Inches Deep
- L. Slope Type: Side Slope

## SOIL SUMMARY REPORT

### General Information:

Date: April 27, 2020      Franklin County Health Department

Applicant: American Electric Power Company

Telephone No. \_\_\_\_\_

Address: c/o Woltz & Associates 23 Franklin Road Roanoke , Va. 24011

Location: Rt. 663

Subdivision: The Shores of Penn Hall

Section: \_\_\_\_\_

Lot: 25

### Soil Information Summary:

Drain Field Y                      LOCATED ON LOT 25

Slope: 6 %

Depth to rock/impervious strata: Max. \_\_\_\_\_ Min. \_\_\_\_\_ None X

Depth to seasonal water table: (gray mottling or gray color) No  Yes  \_\_\_\_\_ Inches

Free water present:      No  Yes  \_\_\_\_\_ Range in Inches

Soil percolation rate estimated: Yes  Texture group    **II**

No  Estimated rate 45 min/inch

Proposed Drainfield 5-70'x 3' Lines installed at 54 Inches Deep

Name and title of evaluator: Tim Parker AOSE# 1098

**SOIL EVALUATION FORM**Subdivision The Shores of Penn Hall Lot 25 Drain Field Y

Hole #	Horizon	Depth (inches)	Description of color, texture, etc.	Texture Group
1	A/E	0-6	5 YR 4/6 light Clay Loam	III
	Bt	6-28	2.5 YR 4/8 Clay Loam with few mica	III
	C1	28-59	2.5 YR 4/8 Loam with common fine mica	II
	C2	59-72	5 YR 5/8 Loam with common fine mica	II
2	A/E	0-6	5 YR 4/6 light Clay Loam	III
	Bt	6-36	2.5 YR 4/8 Clay Loam with mica	III
	C	36-72	5 YR 5/8 Loam with common fine mica	II
3	A/E	0-5	5 YR 4/6 light Clay Loam	III
	Bt	5-35	2.5 YR 4/8 Clay Loam with mica	III
	C	35-72	5 YR 5/8 Loam with common fine mica	II

Remarks: Clifford Soil Series

Name and title of evaluator: Tim Parker AOSE# 1098

## Abbreviated Design Form

## “Appendix 6”

For use with gravity and pump drainfields, enhanced flow systems and low pressure distributions systems when applying for a certification letter of subdivision approval.

**Design Basis** Subdivision The Shores of Penn Hall Lot 25 D/F Y

- A. Estimated Percolation Rate 45
- B. Trench bottom square feet  
Required per bedroom  
(from Table 4.6 based on  Gravity  LPD) 344 ft<sup>2</sup>
- C. Number of Bedrooms 3

**Area Calculations**

- D. Length of trench 70 ft. Length of available area 70 ft.
- E. Width of trench 3 ft.
- F. Number of trenches 5
- G. Center-to-center spacing 9 ft.
- H. Width required  $[G(F-1)+E]$  39 ft. Width of available area 39 ft.
- I. Total square footage required (BxC) 1032 ft<sup>2</sup>
- J. Square footage in design (DxExF) 1050 ft<sup>2</sup>
- K. Is a reserve required?  No  Yes \_\_\_\_\_ Lines at \_\_\_ Inches Deep
- L. Slope Type: Side Slope

## SOIL SUMMARY REPORT

### General Information:

Date: April 27, 2020      Franklin County Health Department

Applicant: American Electric Power Company

Telephone No. \_\_\_\_\_

Address: c/o Woltz & Associates 23 Franklin Road Roanoke , Va. 24011

Location: Rt. 663

Subdivision: The Shores of Penn Hall

Section: \_\_\_\_\_

Lot: 26

### Soil Information Summary:

Drain Field Z                      LOCATED ON LOT 26

Slope: 10 %

Depth to rock/impervious strata: Max. \_\_\_\_\_ Min. \_\_\_\_\_ None X

Depth to seasonal water table: (gray mottling or gray color) No  Yes  \_\_\_\_\_ Inches

Free water present:      No  Yes  \_\_\_\_\_ Range in Inches

Soil percolation rate estimated: Yes  Texture group    **II**

No  Estimated rate 45 min/inch

Proposed Drainfield 5-70'x 3' Lines installed at 54 Inches Deep

Name and title of evaluator: Tim Parker AOSE# 1098

**SOIL EVALUATION FORM**Subdivision The Shores of Penn Hall Lot 26 Drain Field Z

Hole #	Horizon	Depth (inches)	Description of color, texture, etc.	Texture Group
1	A/E	0-5	5 YR 4/6 light Clay Loam	III
	Bt	5-37	2.5 YR 4/8 Clay Loam with few mica	III
	C	37-72	7.5 YR 5/8 Loam with common fine mica	II
2	A/E	0-5	5 YR 4/6 light Clay Loam	III
	Bt	5-35	2.5 YR 4/8 Clay Loam with mica	III
	C	35-72	2.5 YR 4/6 Loam with common fine mica	II
3	A/E	0-5	5 YR 4/6 light Clay Loam	III
	Bt	5-40	2.5 YR 4/8 Clay Loam with mica	III
	C	40-72	5 YR 5/8 Loam with few mafic stains	II

Remarks: Clifford Soil Series

Name and title of evaluator: Tim Parker AOSE# 1098

## Abbreviated Design Form

## “Appendix 6”

For use with gravity and pump drainfields, enhanced flow systems and low pressure distributions systems when applying for a certification letter of subdivision approval.

**Design Basis** Subdivision The Shores of Penn Hall Lot 26 D/F Z

- A. Estimated Percolation Rate 45
- B. Trench bottom square feet  
Required per bedroom  
(from Table 4.6 based on  Gravity  LPD) 344 ft<sup>2</sup>
- C. Number of Bedrooms 3

**Area Calculations**

- D. Length of trench 70 ft. Length of available area 70 ft.
- E. Width of trench 3 ft.
- F. Number of trenches 5
- G. Center-to-center spacing 10 ft.
- H. Width required  $[G(F-1)+E]$  43 ft. Width of available area 43 ft.
- I. Total square footage required (BxC) 1032 ft<sup>2</sup>
- J. Square footage in design (DxExF) 1050 ft<sup>2</sup>
- K. Is a reserve required?  No  Yes \_\_\_\_\_ Lines at \_\_\_ Inches Deep
- L. Slope Type: Side Slope



## SOIL SUMMARY REPORT

### General Information:

Date: April 27, 2020      Franklin County Health Department

Applicant: American Electric Power Company

Telephone No. \_\_\_\_\_

Address: c/o Woltz & Associates 23 Franklin Road Roanoke , Va. 24011

Location: Rt. 663

Subdivision: The Shores of Penn Hall

Section: \_\_\_\_\_

Lot: 27

### Soil Information Summary:

Drain Field AA                      LOCATED ON LOT 27

Slope: 6 %

Depth to rock/impervious strata: Max. \_\_\_\_\_ Min. \_\_\_\_\_ None X

Depth to seasonal water table: (gray mottling or gray color) No  Yes  \_\_\_\_\_ Inches

Free water present:      No  Yes  \_\_\_\_\_ Range in Inches

Soil percolation rate estimated: Yes  Texture group    **II**

No  Estimated rate 45 min/inch

Proposed Drainfield 5-70'x 3' Lines installed at 54 Inches Deep

Name and title of evaluator: Tim Parker AOSE# 1098

**SOIL EVALUATION FORM****Subdivision** The Shores of Penn Hall **Lot** 27 **Drain Field** AA

Hole #	Horizon	Depth (inches)	Description of color, texture, etc.	Texture Group
1	A/E	0-3	7.5 YR 4/3 Loam	II
	Bt	3-36	2.5 YR 4/8 Clay Loam with few mica	III
	C1	36-59	2.5 YR 4/8 Loam with mica	II
	C2	59-72	10 YR 5/6 fine Sandy Loam	II
2	A/E	0-2	7.5 YR 4/3 Loam	II
	Bt	2-39	2.5 YR 4/8 Clay Loam with mica	III
	C	39-72	7.5 YR 5/8 Loam with mica	II
3	A/E	0-3	7.5 YR 4/3 Loam	II
	Bt	3-40	2.5 YR 4/8 Clay Loam with mica	III
	C	40-72	2.5 YR 5/8 Loam with common mica	II

Remarks: Clifford Soil Series

Name and title of evaluator: Tim Parker AOSE# 1098

## Abbreviated Design Form

## “Appendix 6”

For use with gravity and pump drainfields, enhanced flow systems and low pressure distributions systems when applying for a certification letter of subdivision approval.

**Design Basis** Subdivision The Shores of Penn Hall Lot 27 D/F AA

- A. Estimated Percolation Rate 45
- B. Trench bottom square feet  
Required per bedroom  
(from Table 4.6 based on  Gravity  LPD) 344 ft<sup>2</sup>
- C. Number of Bedrooms 3

**Area Calculations**

- D. Length of trench 70 ft. Length of available area 70 ft.
- E. Width of trench 3 ft.
- F. Number of trenches 5
- G. Center-to-center spacing 9 ft.
- H. Width required  $[G(F-1)+E]$  39 ft. Width of available area 39 ft.
- I. Total square footage required (BxC) 1032 ft<sup>2</sup>
- J. Square footage in design (DxExF) 1050 ft<sup>2</sup>
- K. Is a reserve required?  No  Yes \_\_\_\_\_ Lines at \_\_\_ Inches Deep
- L. Slope Type: Side Slope

## SOIL SUMMARY REPORT

### General Information:

Date: April 27, 2020      Franklin County Health Department

Applicant: American Electric Power Company

Telephone No. \_\_\_\_\_

Address: c/o Woltz & Associates 23 Franklin Road Roanoke , Va. 24011

Location: Rt. 663

Subdivision: The Shores of Penn Hall

Section: \_\_\_\_\_

Lot: 28

### Soil Information Summary:

Drain Field BB                      LOCATED ON LOT 28

Slope: 6 %

Depth to rock/impervious strata: Max. \_\_\_\_\_ Min. \_\_\_\_\_ None X

Depth to seasonal water table: (gray mottling or gray color) No  Yes  \_\_\_\_\_ Inches

Free water present:      No  Yes  \_\_\_\_\_ Range in Inches

Soil percolation rate estimated: Yes  Texture group    **II**

No  Estimated rate 45 min/inch

Proposed Drainfield 5-70'x 3' Lines installed at 48 Inches Deep

Name and title of evaluator: Tim Parker AOSE# 1098

**SOIL EVALUATION FORM**Subdivision The Shores of Penn Hall Lot 28 Drain Field BB

Hole #	Horizon	Depth (inches)	Description of color, texture, etc.	Texture Group
1	A/E	0-2	7.5 YR 4/3 Loam	II
	Bt	2-34	2.5 YR 4/8 Clay Loam with few mica	III
	C	37-72	2.5 YR 5/8 Loam with common mica	II
2	A/E	0-2	7.5 YR 4/3 Loam	II
	Bt	2-29	2.5 YR 4/8 Clay Loam with mica	III
	C	29-72	2.5 YR 5/8 Loam with common mica	II
3	A/E	0-3	7.5 YR 4/3 Loam	II
	Bt	3-31	2.5 YR 4/8 Clay Loam with mica	III
	C1	31-60	2.5 YR 5/8 Loam with common mica	II
	C2	60-72	7.5 YR 4/6 micaceous Loam	II

Remarks: Clifford Soil Series

Name and title of evaluator: Tim Parker AOSE# 1098

## Abbreviated Design Form

## “Appendix 6”

For use with gravity and pump drainfields, enhanced flow systems and low pressure distributions systems when applying for a certification letter of subdivision approval.

**Design Basis** Subdivision The Shores of Penn Hall Lot 28 D/F BB

- A. Estimated Percolation Rate 45
- B. Trench bottom square feet  
Required per bedroom  
(from Table 4.6 based on  Gravity  LPD) 344 ft<sup>2</sup>
- C. Number of Bedrooms 3

**Area Calculations**

- D. Length of trench 70 ft. Length of available area 70 ft.
- E. Width of trench 3 ft.
- F. Number of trenches 5
- G. Center-to-center spacing 9 ft.
- H. Width required  $[G(F-1)+E]$  39 ft. Width of available area 39 ft.
- I. Total square footage required (BxC) 1032 ft<sup>2</sup>
- J. Square footage in design (DxExF) 1050 ft<sup>2</sup>
- K. Is a reserve required?  No  Yes \_\_\_\_\_ Lines at \_\_\_ Inches Deep
- L. Slope Type: Side Slope

## SOIL SUMMARY REPORT

### General Information:

Date: April 27, 2020      Franklin County Health Department

Applicant: American Electric Power Company

Telephone No. \_\_\_\_\_

Address: c/o Woltz & Associates 23 Franklin Road Roanoke , Va. 24011

Location: Rt. 663

Subdivision: The Shores of Penn Hall

Section: \_\_\_\_\_

Lot: 29

### Soil Information Summary:

Drain Field CC                      LOCATED ON LOT 29

Slope: 8 %

Depth to rock/impervious strata: Max. \_\_\_\_\_ Min. \_\_\_\_\_ None X

Depth to seasonal water table: (gray mottling or gray color) No  Yes  \_\_\_\_\_ Inches

Free water present:      No  Yes  \_\_\_\_\_ Range in Inches

Soil percolation rate estimated: Yes  Texture group    **II**

No  Estimated rate 45 min/inch

Proposed Drainfield 5-70'x 3' Lines installed at 54 Inches Deep

Name and title of evaluator: Tim Parker AOSE# 1098

**SOIL EVALUATION FORM**

**Subdivision** The Shores of Penn Hall    **Lot** 29    **Drain Field** CC

Hole #	Horizon	Depth (inches)	Description of color, texture, etc.	Texture Group
1	A/E	0-6	7.5 YR 5/6 Loam	II
	Bt	6-36	2.5 YR 4/8 Clay Loam with few mica	III
	C	36-72	2.5 YR 4/8 Loam with common mica	II
2	A/E	0-8	7.5 YR 5/6 Loam	II
	Bt	8-40	2.5 YR 4/8 Clay Loam with mica	III
	C	40-72	5 YR 5/8 Loam with common mica	II
3	A/E	0-7	7.5 YR 5/6 Loam	II
	Bt	7-37	2.5 YR 4/8 Clay Loam with mica	III
	C	37-72	5 YR 5/8 Loam with mica	II

Remarks: Clifford Soil Series

Name and title of evaluator: Tim Parker AOSE# 1098



## Abbreviated Design Form

## “Appendix 6”

For use with gravity and pump drainfields, enhanced flow systems and low pressure distributions systems when applying for a certification letter of subdivision approval.

**Design Basis** Subdivision The Shores of Penn Hall Lot 29 D/F CC

- A. Estimated Percolation Rate 45
- B. Trench bottom square feet  
Required per bedroom  
(from Table 4.6 based on  Gravity  LPD) 344 ft<sup>2</sup>
- C. Number of Bedrooms 3

**Area Calculations**

- D. Length of trench 70 ft. Length of available area 70 ft.
- E. Width of trench 3 ft.
- F. Number of trenches 5
- G. Center-to-center spacing 9 ft.
- H. Width required  $[G(F-1)+E]$  39 ft. Width of available area 39 ft.
- I. Total square footage required (BxC) 1032 ft<sup>2</sup>
- J. Square footage in design (DxExF) 1050 ft<sup>2</sup>
- K. Is a reserve required?  No  Yes \_\_\_\_\_ Lines at \_\_\_ Inches Deep
- L. Slope Type: Side Slope

## SOIL SUMMARY REPORT

### General Information:

Date: April 27, 2020      Franklin County Health Department

Applicant: American Electric Power Company

Telephone No. \_\_\_\_\_

Address: c/o Woltz & Associates 23 Franklin Road Roanoke , Va. 24011

Location: Rt. 663

Subdivision: The Shores of Penn Hall

Section: \_\_\_\_\_

Lot: 30

### Soil Information Summary:

Drain Field DD                      LOCATED ON LOT 30

Slope: 6 %

Depth to rock/impervious strata: Max. \_\_\_\_\_ Min. \_\_\_\_\_ None X

Depth to seasonal water table: (gray mottling or gray color) No  Yes  \_\_\_\_\_ Inches

Free water present:      No  Yes  \_\_\_\_\_ Range in Inches

Soil percolation rate estimated: Yes  Texture group    **II**

No  Estimated rate 45 min/inch

Proposed Drainfield 5-70'x 3' Lines installed at 54 Inches Deep

Name and title of evaluator: Tim Parker AOSE# 1098

**SOIL EVALUATION FORM**

**Subdivision** The Shores of Penn Hall    **Lot** 30    **Drain Field** DD

Hole #	Horizon	Depth (inches)	Description of color, texture, etc.	Texture Group
1	A/E	0-5	7.5 YR 5/6 Loam	II
	Bt	5-36	2.5 YR 4/8 Clay Loam with few mica	III
	C	36-72	2.5 YR 4/8 Loam with common fine mica	II
2	A/E	0-5	7.5 YR 5/6 Loam	II
	Bt	5-39	2.5 YR 4/8 Clay Loam with mica	III
	C	39-72	2.5 YR 4/8 Loam with common fine mica	II
3	A/E	0-6	7.5 YR 5/6 Loam	II
	Bt	6-39	2.5 YR 4/8 Clay Loam with mica	III
	C	39-72	2.5 YR 4/8 Loam with common fine mica	II

Remarks: Clifford Soil Series

Name and title of evaluator: Tim Parker AOSE# 1098

## Abbreviated Design Form

## “Appendix 6”

For use with gravity and pump drainfields, enhanced flow systems and low pressure distributions systems when applying for a certification letter of subdivision approval.

**Design Basis** Subdivision The Shores of Penn Hall Lot 30 D/F DD

- A. Estimated Percolation Rate 45
- B. Trench bottom square feet  
Required per bedroom  
(from Table 4.6 based on  Gravity  LPD) 344 ft<sup>2</sup>
- C. Number of Bedrooms 3

**Area Calculations**

- D. Length of trench 70 ft. Length of available area 70 ft.
- E. Width of trench 3 ft.
- F. Number of trenches 5
- G. Center-to-center spacing 9 ft.
- H. Width required  $[G(F-1)+E]$  39 ft. Width of available area 39 ft.
- I. Total square footage required (BxC) 1032 ft<sup>2</sup>
- J. Square footage in design (DxExF) 1050 ft<sup>2</sup>
- K. Is a reserve required?  No  Yes \_\_\_\_\_ Lines at \_\_\_ Inches Deep
- L. Slope Type: Side Slope

## SOIL SUMMARY REPORT

### General Information:

Date: April 27, 2020      Franklin County Health Department

Applicant: American Electric Power Company

Telephone No. \_\_\_\_\_

Address: c/o Woltz & Associates 23 Franklin Road Roanoke , Va. 24011

Location: Rt. 663

Subdivision: The Shores of Penn Hall

Section: \_\_\_\_\_

Lot: 31

### Soil Information Summary:

Drain Field EE                      LOCATED ON LOT 31

Slope: 7 %

Depth to rock/impervious strata: Max. \_\_\_\_\_ Min. \_\_\_\_\_ None X

Depth to seasonal water table: (gray mottling or gray color) No  Yes  \_\_\_\_\_ Inches

Free water present:      No  Yes  \_\_\_\_\_ Range in Inches

Soil percolation rate estimated: Yes  Texture group    **II**

No  Estimated rate 45 min/inch

Proposed Drainfield 5-70'x 3' Lines installed at 54 Inches Deep

Name and title of evaluator: Tim Parker AOSE# 1098

**SOIL EVALUATION FORM**

**Subdivision** The Shores of Penn Hall    **Lot** 31    **Drain Field** EE

Hole #	Horizon	Depth (inches)	Description of color, texture, etc.	Texture Group
1	A/E	0-5	5 YR 5/6 light Clay Loam	III
	Bt	5-36	2.5 YR 4/8 Clay Loam with few mica	III
	C	36-72	2.5 YR 4/6 Loam with common mica	II
2	A/E	0-5	5 YR 5/6 light Clay Loam	III
	Bt	5-39	2.5 YR 4/8 Clay Loam with mica	III
	C	39-72	2.5 YR 4/8 Loam with common mica	II
3	A/E	0-8	5 YR 5/6 light Clay Loam	III
	Bt	8-40	2.5 YR 4/8 Clay Loam with mica	III
	C	40-72	2.5 YR 4/8 Loam with common mica	II

Remarks: Clifford Soil Series

Name and title of evaluator: Tim Parker AOSE# 1098

## Abbreviated Design Form

## “Appendix 6”

For use with gravity and pump drainfields, enhanced flow systems and low pressure distributions systems when applying for a certification letter of subdivision approval.

**Design Basis** Subdivision The Shores of Penn Hall Lot 31 D/F EE

- A. Estimated Percolation Rate 45
- B. Trench bottom square feet  
Required per bedroom  
(from Table 4.6 based on  Gravity  LPD) 344 ft<sup>2</sup>
- C. Number of Bedrooms 3

**Area Calculations**

- D. Length of trench 70 ft. Length of available area 70 ft.
- E. Width of trench 3 ft.
- F. Number of trenches 5
- G. Center-to-center spacing 9 ft.
- H. Width required  $[G(F-1)+E]$  39 ft. Width of available area 39 ft.
- I. Total square footage required (BxC) 1032 ft<sup>2</sup>
- J. Square footage in design (DxExF) 1050 ft<sup>2</sup>
- K. Is a reserve required?  No  Yes \_\_\_\_\_ Lines at \_\_\_ Inches Deep
- L. Slope Type: Side Slope

## SOIL SUMMARY REPORT

### General Information:

Date: April 27, 2020      Franklin County Health Department

Applicant: American Electric Power Company

Telephone No. \_\_\_\_\_

Address: c/o Woltz & Associates 23 Franklin Road Roanoke , Va. 24011

Location: Rt. 663

Subdivision: The Shores of Penn Hall

Section: \_\_\_\_\_

Lot: 32

### Soil Information Summary:

Drain Field FF                      LOCATED ON LOT 32

Slope: 4 %

Depth to rock/impervious strata: Max. \_\_\_\_\_ Min. \_\_\_\_\_ None X

Depth to seasonal water table: (gray mottling or gray color) No  Yes  \_\_\_\_\_ Inches

Free water present:      No  Yes  \_\_\_\_\_ Range in Inches

Soil percolation rate estimated: Yes  Texture group    **II**

No  Estimated rate 45 min/inch

Proposed Drainfield 5-70'x 3' Lines installed at 54 Inches Deep

Name and title of evaluator: Tim Parker AOSE# 1098



**SOIL EVALUATION FORM****Subdivision** The Shores of Penn Hall    **Lot** 32    **Drain Field** FF

Hole #	Horizon	Depth (inches)	Description of color, texture, etc.	Texture Group
1	A/E	0-5	5 YR 5/6 light Clay Loam	III
	Bt	5-35	2.5 YR 4/8 Clay Loam with few mica	III
	C	35-72	2.5 YR 4/8 Loam with common fine mica	II
2	A/E	0-4	5 YR 5/6 light Clay Loam	III
	Bt	4-28	2.5 YR 4/8 Clay Loam with mica	III
	C	28-72	5 YR 5/8 Loam with common fine mica	II
3	A/E	0-4	5 YR 5/6 light Clay Loam	III
	Bt	4-32	2.5 YR 4/8 Clay Loam with mica	III
	C	32-72	2.5 YR 5/8 Loam with common fine mica	II

Remarks: Clifford Soil Series

Name and title of evaluator: Tim Parker AOSE# 1098

## Abbreviated Design Form

## “Appendix 6”

For use with gravity and pump drainfields, enhanced flow systems and low pressure distributions systems when applying for a certification letter of subdivision approval.

**Design Basis** Subdivision The Shores of Penn Hall Lot 32 D/F FF

- A. Estimated Percolation Rate 45
- B. Trench bottom square feet  
Required per bedroom  
(from Table 4.6 based on  Gravity  LPD) 344 ft<sup>2</sup>
- C. Number of Bedrooms 3

**Area Calculations**

- D. Length of trench 70 ft. Length of available area 70 ft.
- E. Width of trench 3 ft.
- F. Number of trenches 5
- G. Center-to-center spacing 9 ft.
- H. Width required  $[G(F-1)+E]$  39 ft. Width of available area 39 ft.
- I. Total square footage required (BxC) 1032 ft<sup>2</sup>
- J. Square footage in design (DxExF) 1050 ft<sup>2</sup>
- K. Is a reserve required?  No  Yes \_\_\_\_\_ Lines at \_\_\_ Inches Deep
- L. Slope Type: Side Slope

## SOIL SUMMARY REPORT

### General Information:

Date: April 27, 2020      Franklin County Health Department

Applicant: American Electric Power Company

Telephone No. \_\_\_\_\_

Address: c/o Woltz & Associates 23 Franklin Road Roanoke , Va. 24011

Location: Rt. 663

Subdivision: The Shores of Penn Hall

Section: \_\_\_\_\_

Lot: 33

### Soil Information Summary:

Drain Field GG                      LOCATED ON LOT 33

Slope: 10 %

Depth to rock/impervious strata: Max. \_\_\_\_\_ Min. \_\_\_\_\_ None X

Depth to seasonal water table: (gray mottling or gray color) No  Yes  \_\_\_\_\_ Inches

Free water present:      No  Yes  \_\_\_\_\_ Range in Inches

Soil percolation rate estimated: Yes  Texture group    **II**

No  Estimated rate 45 min/inch

Proposed Drainfield 5-70'x 3' Lines installed at 54 Inches Deep

Name and title of evaluator: Tim Parker AOSE# 1098

**SOIL EVALUATION FORM****Subdivision** The Shores of Penn Hall    **Lot** 33    **Drain Field** GG

Hole #	Horizon	Depth (inches)	Description of color, texture, etc.	Texture Group
1	A/E	0-7	5 YR 5/6 light Clay Loam	III
	Bt	7-39	2.5 YR 4/8 Clay Loam with few mica	III
	C	39-72	2.5 YR 4/8 Loam with common fine mica	II
2	A/E	0-8	5 YR 5/6 light Clay Loam	III
	Bt	8-38	2.5 YR 4/8 Clay Loam with mica	III
	C	38-72	2.5 YR 4/8 Loam with common fine mica	II
3	A/E	0-8	5 YR 5/6 light Clay Loam	III
	Bt	8-36	2.5 YR 4/8 Clay Loam with mica	III
	C	36-72	2.5 YR 4/8 Loam with common fine mica	II

Remarks: Clifford Soil Series

Name and title of evaluator: Tim Parker AOSE# 1098

## Abbreviated Design Form

## “Appendix 6”

For use with gravity and pump drainfields, enhanced flow systems and low pressure distributions systems when applying for a certification letter of subdivision approval.

**Design Basis** Subdivision The Shores of Penn Hall Lot 33 D/F GG

- A. Estimated Percolation Rate 45
- B. Trench bottom square feet  
Required per bedroom  
(from Table 4.6 based on  Gravity  LPD) 344 ft<sup>2</sup>
- C. Number of Bedrooms 3

**Area Calculations**

- D. Length of trench 70 ft. Length of available area 70 ft.
- E. Width of trench 3 ft.
- F. Number of trenches 5
- G. Center-to-center spacing 10 ft.
- H. Width required  $[G(F-1)+E]$  43 ft. Width of available area 43 ft.
- I. Total square footage required (BxC) 1032 ft<sup>2</sup>
- J. Square footage in design (DxExF) 1050 ft<sup>2</sup>
- K. Is a reserve required?  No  Yes \_\_\_\_\_ Lines at \_\_\_ Inches Deep
- L. Slope Type: Side Slope

## SOIL SUMMARY REPORT

### General Information:

Date: April 27, 2020      Franklin County Health Department

Applicant: American Electric Power Company

Telephone No. \_\_\_\_\_

Address: c/o Woltz & Associates 23 Franklin Road Roanoke , Va. 24011

Location: Rt. 663

Subdivision: The Shores of Penn Hall

Section: \_\_\_\_\_

Lot: 34

### Soil Information Summary:

Drain Field HH                      LOCATED ON LOT 34

Slope: 11 %

Depth to rock/impervious strata: Max. \_\_\_\_\_ Min. \_\_\_\_\_ None X

Depth to seasonal water table: (gray mottling or gray color) No  Yes  \_\_\_\_\_ Inches

Free water present:      No  Yes  \_\_\_\_\_ Range in Inches

Soil percolation rate estimated: Yes  Texture group    **II**

No  Estimated rate 45 min/inch

Proposed Drainfield 5-70'x 3' Lines installed at 48 Inches Deep

Name and title of evaluator: Tim Parker AOSE# 1098

**SOIL EVALUATION FORM****Subdivision** The Shores of Penn Hall    **Lot** 34    **Drain Field** HH

Hole #	Horizon	Depth (inches)	Description of color, texture, etc.	Texture Group
1	A/E	0-6	5 YR 5/6 light Clay Loam	III
	Bt	6-29	2.5 YR 4/8 Clay Loam with few mica	III
	C	29-72	2.5 YR 4/8 Loam with common mica	II
2	A/E	0-5	5 YR 5/6 light Clay Loam	III
	Bt	5-33	2.5 YR 4/8 Clay Loam with mica	III
	C	33-72	2.5 YR 4/8 Loam with common mica	II
3	A/E	0-5	5 YR 5/6 light Clay Loam	III
	Bt	5-26	2.5 YR 4/8 Clay Loam with mica	III
	C	26-72	2.5 YR 4/8 Loam with common mica	II

Remarks: Clifford Soil Series

Name and title of evaluator: Tim Parker AOSE# 1098

## Abbreviated Design Form

## “Appendix 6”

For use with gravity and pump drainfields, enhanced flow systems and low pressure distributions systems when applying for a certification letter of subdivision approval.

**Design Basis** Subdivision The Shores of Penn Hall Lot 34 D/F HH

- A. Estimated Percolation Rate 45
- B. Trench bottom square feet  
Required per bedroom  
(from Table 4.6 based on  Gravity  LPD) 344 ft<sup>2</sup>
- C. Number of Bedrooms 3

**Area Calculations**

- D. Length of trench 70 ft. Length of available area 70 ft.
- E. Width of trench 3 ft.
- F. Number of trenches 5
- G. Center-to-center spacing 10 ft.
- H. Width required  $[G(F-1)+E]$  43 ft. Width of available area 43 ft.
- I. Total square footage required (BxC) 1032 ft<sup>2</sup>
- J. Square footage in design (DxExF) 1050 ft<sup>2</sup>
- K. Is a reserve required?  No  Yes \_\_\_\_\_ Lines at \_\_\_ Inches Deep
- L. Slope Type: Side Slope



## SOIL SUMMARY REPORT

### General Information:

Date: April 27, 2020      Franklin County Health Department

Applicant: American Electric Power Company

Telephone No. \_\_\_\_\_

Address: c/o Woltz & Associates 23 Franklin Road Roanoke , Va. 24011

Location: Rt. 663

Subdivision: The Shores of Penn Hall

Section: \_\_\_\_\_

Lot: 35

### Soil Information Summary:

Drain Field II                      LOCATED ON LOT 35

Slope: 11 %

Depth to rock/impervious strata: Max. \_\_\_\_\_ Min. \_\_\_\_\_ None X

Depth to seasonal water table: (gray mottling or gray color) No  Yes  \_\_\_\_\_ Inches

Free water present:      No  Yes  \_\_\_\_\_ Range in Inches

Soil percolation rate estimated: Yes  Texture group    II

No  Estimated rate 45 min/inch

Proposed Drainfield 5-70'x 3' Lines installed at 54 Inches Deep

Name and title of evaluator: Tim Parker AOSE# 1098

**SOIL EVALUATION FORM**Subdivision The Shores of Penn Hall Lot 35 Drain Field II

Hole #	Horizon	Depth (inches)	Description of color, texture, etc.	Texture Group
1	A/E	0-3	7.5 YR 4/6 light Clay Loam	III
	Bt	3-40	2.5 YR 4/8 Clay Loam with few mica	III
	C1	40-55	5 YR 5/8 Loam with common fine mica	II
	C2	55-72	7.5 YR 6/8 fine Sandy Loam	II
2	A/E	0-4	7.5 YR 4/6 light Clay Loam	III
	Bt	4-40	2.5 YR 4/8 Clay Loam with mica	III
	C	40-72	2.5 YR 4/8 micaceous Loam	II
3	A/E	0-4	7.5 YR 4/6 light Clay Loam	III
	Bt	4-38	2.5 YR 4/8 Clay Loam with mica	III
	C	38-72	2.5 YR 4/8 Loam with common mica	II

Remarks: Clifford Soil Series

Name and title of evaluator: Tim Parker AOSE# 1098

## Abbreviated Design Form

## “Appendix 6”

For use with gravity and pump drainfields, enhanced flow systems and low pressure distributions systems when applying for a certification letter of subdivision approval.

**Design Basis** Subdivision The Shores of Penn Hall Lot 35 D/F II

- A. Estimated Percolation Rate 45
- B. Trench bottom square feet  
Required per bedroom  
(from Table 4.6 based on  Gravity  LPD) 344 ft<sup>2</sup>
- C. Number of Bedrooms 3

**Area Calculations**

- D. Length of trench 70 ft. Length of available area 70 ft.
- E. Width of trench 3 ft.
- F. Number of trenches 5
- G. Center-to-center spacing 10 ft.
- H. Width required  $[G(F-1)+E]$  43 ft. Width of available area 43 ft.
- I. Total square footage required (BxC) 1032 ft<sup>2</sup>
- J. Square footage in design (DxExF) 1050 ft<sup>2</sup>
- K. Is a reserve required?  No  Yes \_\_\_\_\_ Lines at \_\_\_ Inches Deep
- L. Slope Type: Side Slope