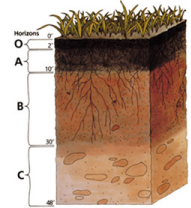


Soil and Environmental
Consulting Services, Inc.



Wednesday, June 22, 2022

Bruner Land Company
c/o Lori Bruner
brunerland@hotmail.com

Re: Soil investigation for on-site septic disposal for the lot splits adjacent to 12481 Silvers Road, Pleasant Township, Clark County, Ohio

Enclosed you will find the requested detailed soil for the lot splits adjacent to 12481 Silvers Road, Pleasant Township, Clark County, Ohio

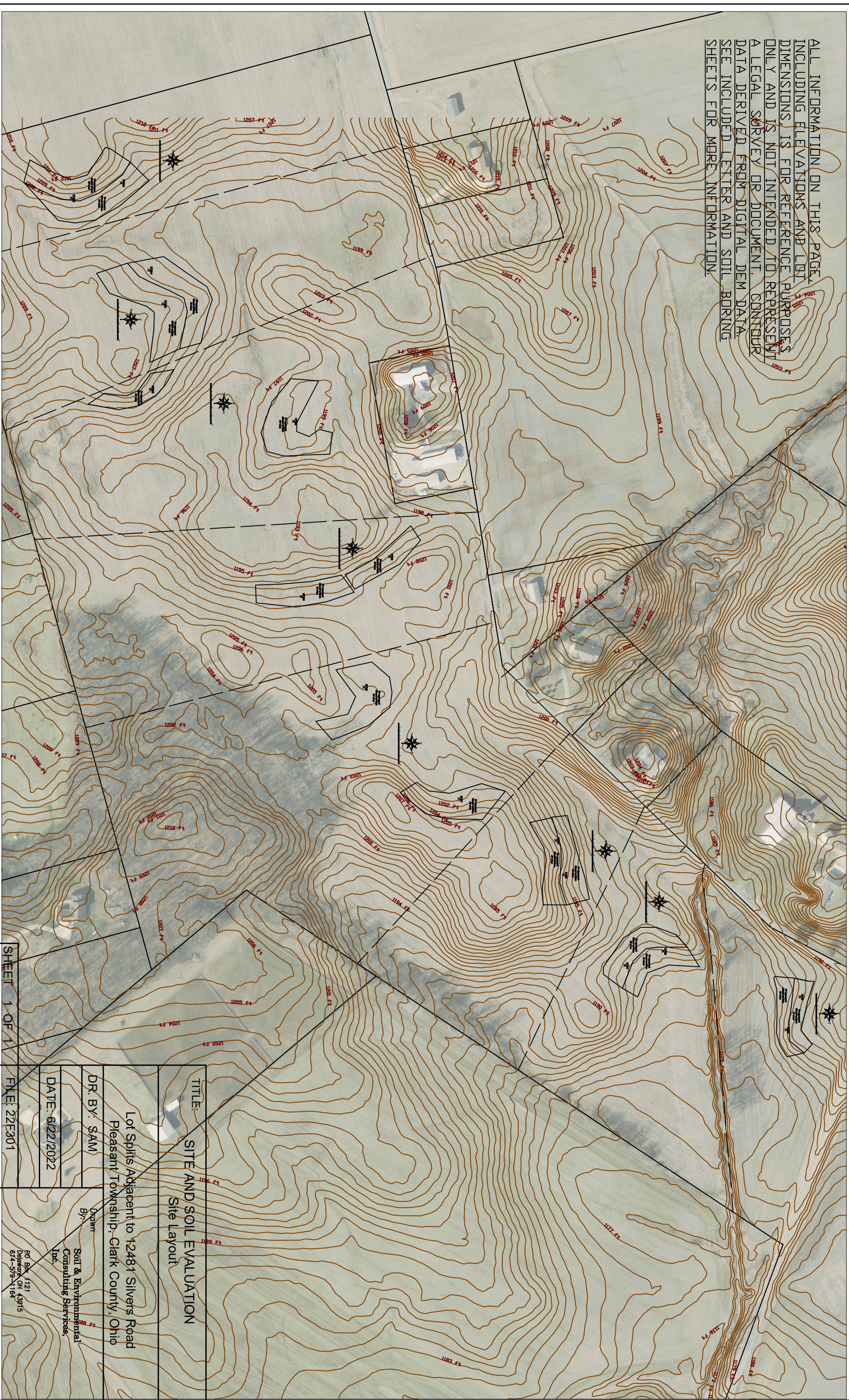
The soils of the selected sites were mapped and described on the enclosed sheets for your records. The locations of the soil borings have been located using GPS and the locations have been delineated on the enclosed map. Copies of this letter, soil boring descriptions, sketch, and system drawing should be submitted to local health department. The health department will make the determination if the soil and site area is suitable for onsite sewage treatment. It may also be necessary for the soil borings to be located by a surveyor.

Please protect all areas approved for septic disposal by having the contractor stake and rope off the proposed locations prior to driveway and basement excavation. No soil, building, or waste material should be stored on the proposed absorption areas. Disturbance to the areas may result in compaction and the subsequent failure of the system. Any disturbance to the absorption area voids the results of this analysis.

If you have any questions or want to move forward with the septic design process feel free to contact us.

Steven Miller, CPSS

ALL INFORMATION ON THIS PAGE, INCLUDING ELEVATIONS AND LOT DIMENSIONS, IS FOR REFERENCE PURPOSES ONLY AND IS NOT INTENDED TO REPRESENT A LEGAL SURVEY OR DOCUMENT. CONTACT DATA DERIVED FROM DIGITAL DEM DATA. SEE INCLUDED LETTER AND SOIL BORING SHEETS FOR MORE INFORMATION.



TITLE:
SITE AND SOIL EVALUATION
Site Layout

Lot Splits Adjacent to 12481 Silvers Road
Pleasant Township, Clark County, Ohio

DR. BY: SAM

DATE: 6/22/2022

SHEET 1 OF 1
FILE: 22F301

Drawn By:
**Soil & Environmental
Consulting Services,
Inc.**
PO Box 1121
Delaware, OH 43015
614-573-1164

ALL INFORMATION ON THIS PAGE, INCLUDING ELEVATIONS AND LOT DIMENSIONS, IS FOR REFERENCE PURPOSES ONLY AND IS NOT INTENDED TO REPRESENT A LEGAL SURVEY OR DOCUMENT. CONTOUR DATA DERIVED FROM DIGITAL DEM DATA. SEE INCLUDED LETTER AND SOIL BORING SHEETS FOR MORE INFORMATION.



TITLE: SITE AND SOIL EVALUATION
Site Layout

Lot Splits Adjacent to 12481 Silvers Road
Pleasant Township, Clark County, Ohio

DR. BY: SAM

Drawn By:
Soil & Environmental
Consulting Services,
Inc.

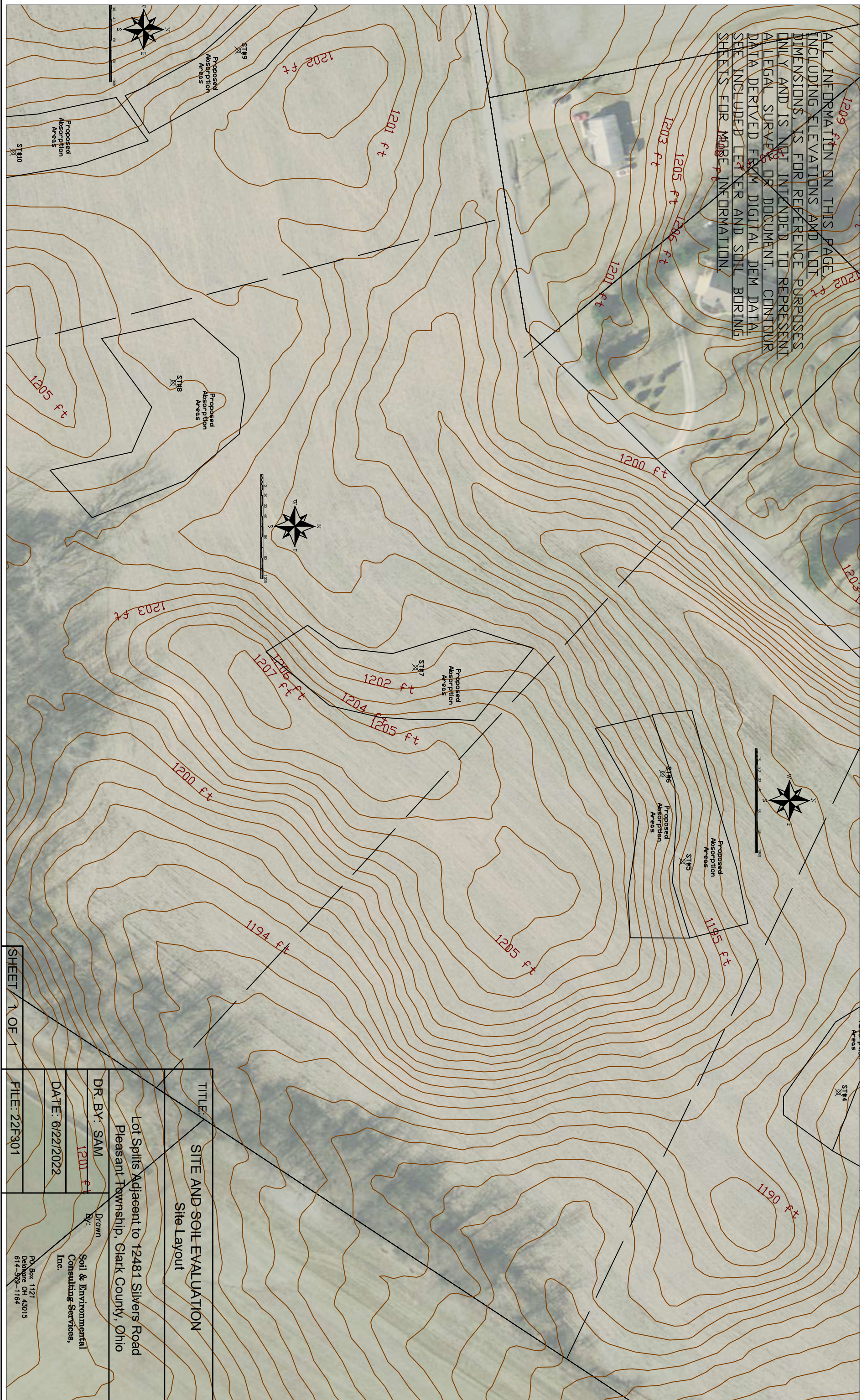
DATE: 6/22/2022

FILE: 22E301

P.O. Box 1121
Delaware OH 43015
614-579-1164

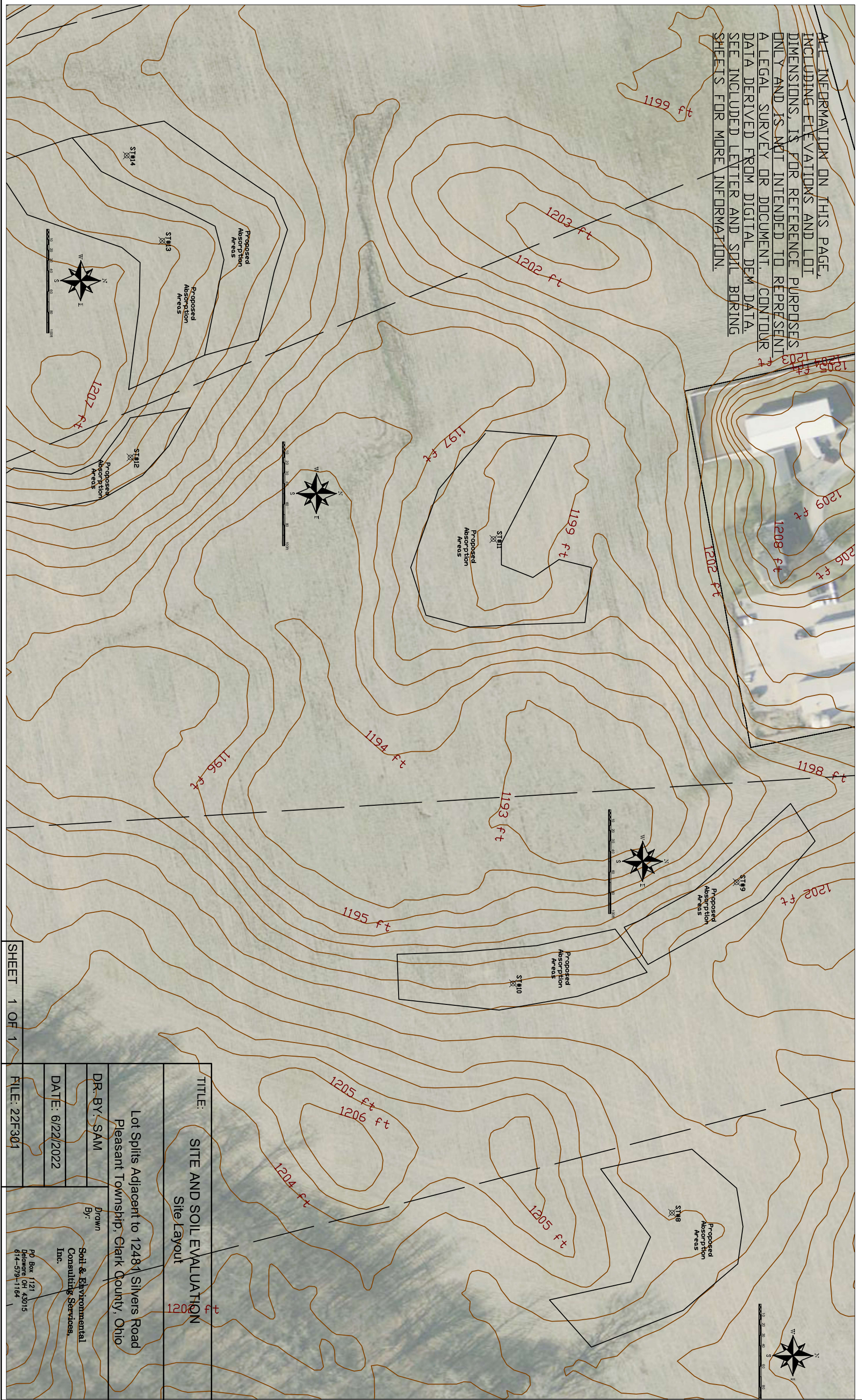
SHEET 1 OF 1

ALL INFORMATION ON THIS PAGE, INCLUDING ELEVATIONS AND LOT DIMENSIONS, IS FOR REFERENCE PURPOSES ONLY AND IS NOT INTENDED TO REPRESENT A LEGAL SURVEY OR DOCUMENT. CONTOUR DATA DERIVED FROM DIGITAL DEM DATA SEE INCLUDED LETTER AND SOIL BORING SHEETS FOR MORE INFORMATION.



SHEET 1 OF 1	
FILE: 22F301	
TITLE: SITE AND SOIL EVALUATION Site Layout	
Lot Splits Adjacent to 12481 Silvers Road Pleasant Township, Clark County, Ohio	
DR. BY: SAM	Drawn By:
DATE: 6/22/2022	Soil & Environmental Consulting Services, Inc.
P.O. Box 1121 Delaware OH 43015 614-529-1164	

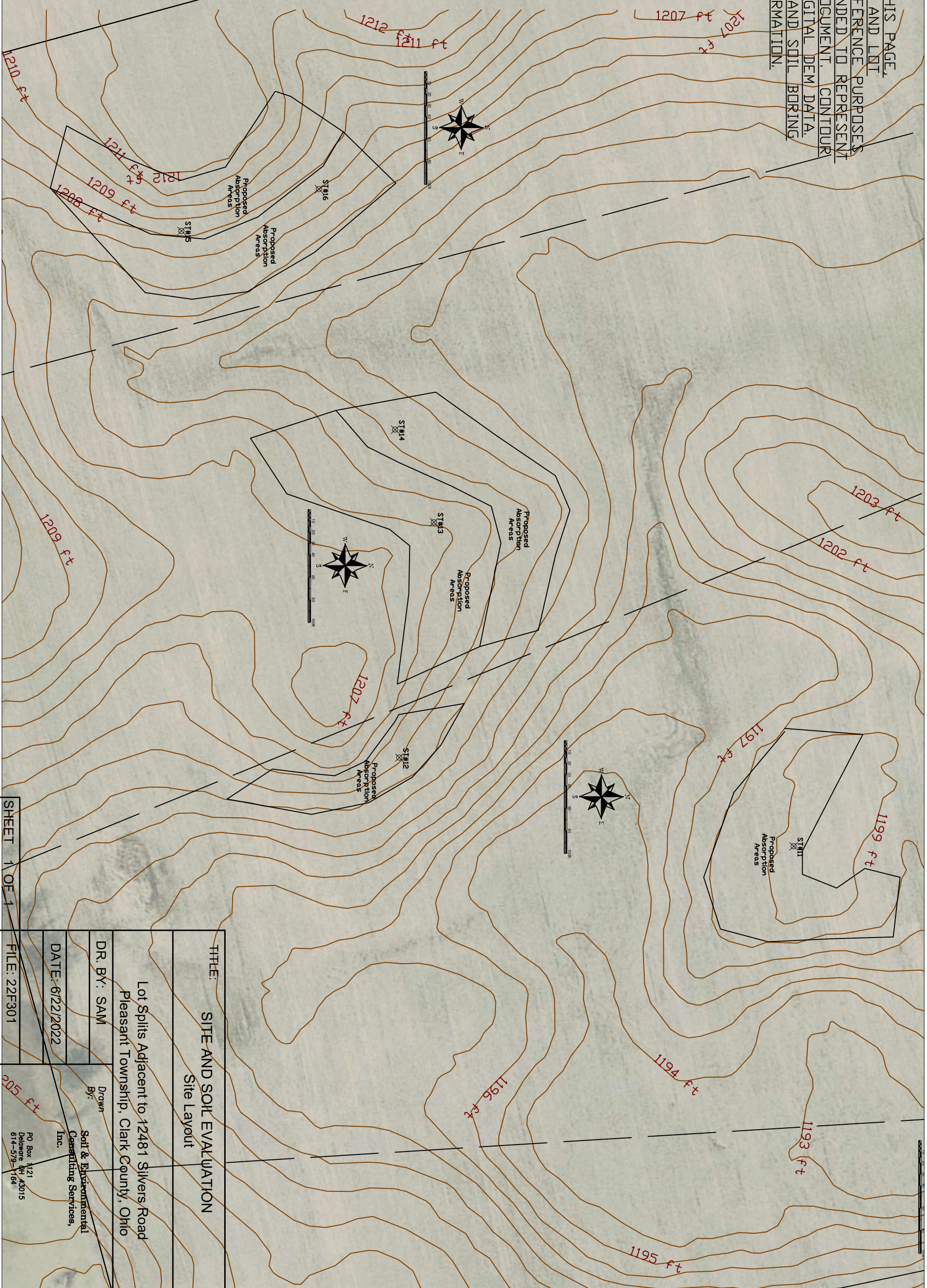
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SHEET 1 OF 1

TITLE: SITE AND SOIL EVALUATION Site Layout	
Lot Splits Adjacent to 12481 Silvers Road Pleasant Township, Clark County, Ohio	
DR. BY: SAM	Drawn By:
DATE: 6/22/2022	Soil & Environmental Consulting Services, Inc. PO Box 1121 Delaware OH 43015 614-579-1164
FILE: 22F301	

ALL INFORMATION ON THIS PAGE, INCLUDING ELEVATIONS AND LOT DIMENSIONS, IS FOR REFERENCE PURPOSES ONLY AND IS NOT INTENDED TO REPRESENT A LEGAL SURVEY OR DOCUMENT. CONTOUR DATA DERIVED FROM DIGITAL DEM DATA. SEE INCLUDED LETTER AND SOIL BORING SHEETS FOR MORE INFORMATION.



TITLE: SITE AND SOIL EVALUATION
Site Layout

Lot Splits Adjacent to 122481 Silvers Road
Pleasant Township, Clark County, Ohio

DR. BY: SAM

Drawn By:
Soil & Environmental
Consulting Services,
Inc.

DATE: 6/22/2022

FILE: 22F301

PO Box 1121
Delaware OH 43015
614-579-1164

SHEET 1 OF 1

Site and Soil Evaluation for Sewage Treatment and Dispersal

County: Clark
 Township / Sec.: Pleasant
 Property Address/Location: Lot Splits Adj to 12481 Silvers Road
South Vienna
 Applicant Name: Bruner Land Company
 Address: _____
 Phone #: _____
 Lot #: _____
 Test Hole #: 1
 Latitude/Longitude: _____
 Method: Pit Auger Probe

Land Use / Vegetation: Bean
 Landform: Till Plain
 Position on Landform: Backslope
 Percent Slope: 5 to 6%
 Shape of Slope: Linear / Linear
 Bedrooms or GPD: 4
 Date: Monday, June 20, 2022
 Evaluator: Steven Miller, CPSSc
Soil & Environmental Consulting, Inc.
P.O. Box 1121
Delaware OH 43015
 Job Number: 22F301
 Soil Series: _____



Signature: *Steven A. Miller*
 Phone#: p-614.579.1164
soilconsultant@yahoo.com

Soil Profile		Estimating Soil Saturation			Estimating Soil Permeability							Other Soil Features
		Munsell Color (hue, value, chroma)			Texture			Structure				
Horizon	Depth (inches)	Matrix Color	Redoximorphic Features		Class	Approx. % Clay	Approx. % Fragments	Grade	Size	Type (shape)	Consistence	
			Concentrations	Depletions								
Ap	0 to 8	10YR 4/3			sicl	30	5	2	m	gr	fr	
Bt1	8 to 16	10YR 5/6			sic	40	5	2	m	sbk	fi	
Bt2	16 to 26	10YR 5/4		5%10YR 5/2	sic	45	5	2	m	sbk	fi	
BC	26 to 30	10YR 5/4		10%10YR 5/1	1	25	8	1	m	sbk	fi	
Cd	30+	10YR 4/4		15%10YR 5/1	1	20	10	0		m	vfi	

Limiting Conditions	Depth (in)	Description	Remarks / Risk Factors:
Perched Seasonal Water Table	16	perched on glacial till	Surface water should be diverted around system. Subsurface ag drainage may be present.
Apparent Water Table	>60		
Highly Permeable Material	>60		
Bedrock	>60		
Restrictive Layer	30	glacial till	

Note : The evaluation shall include a complete site plan or site drawing including all requirements in paragraphs (B)(1) through (B)(4) of OAC 3701-29-08.

Site and Soil Evaluation for Sewage Treatment and Dispersal

County: Clark
 Township / Sec.: Pleasant
 Property Address/Location: Lot Splits Adj to 12481 Silvers Road
South Vienna
 Applicant Name: Bruner Land Company
 Address: _____
 Phone #: _____
 Lot #: _____
 Test Hole #: 2
 Latitude/Longitude: _____
 Method: Pit Auger Probe

Land Use / Vegetation: Bean
 Landform: Till Plain
 Position on Landform: Backslope
 Percent Slope: 5 to 6%
 Shape of Slope: Linear / Linear
 Bedrooms or GPD: 4
 Date: Monday, June 20, 2022
 Evaluator: Steven Miller, CPSSc
Soil & Environmental Consulting, Inc.
P.O. Box 1121
Delaware OH 43015
 Job Number: 22F301
 Soil Series: _____


 Signature: *Steven A. Miller*
 Phone#: p-614.579.1164
soilconsultant@yahoo.com

Soil Profile		Estimating Soil Saturation			Estimating Soil Permeability							Other Soil Features
		Munsell Color (hue, value, chroma)			Texture			Structure				
Horizon	Depth (inches)	Matrix Color	Redoximorphic Features		Class	Approx. % Clay	Approx. % Fragments	Grade	Size	Type (shape)	Consistence	
			Concentrations	Depletions								
Ap	0 to 8	10YR 4/3			sil	25	5	2	m	gr	fr	
Bt1	8 to 18	10YR 5/6		5%10YR 5/2	siel	35	5	2	m	sbk	fi	
Bt2	18 to 30	10YR 5/4		10%10YR 5/2	sic	40	5	2	m	sbk	fi	
BC	30 to 34	10YR 5/4		15%10YR 5/2	1	20	8	1	m	sbk	fi	
Cd	34+	10YR 4/4		10%10yR 5/1	1	15	10	0		m	vfi	

Limiting Conditions	Depth (in)	Description	Remarks / Risk Factors:
Perched Seasonal Water Table	8	perched on glacial till	Surface water should be diverted around system. Subsurface ag drainage may be present.
Apparent Water Table	>60		
Highly Permeable Material	>60		
Bedrock	>60		
Restrictive Layer	34	glacial till	

Note : The evaluation shall include a complete site plan or site drawing including all requirements in paragraphs (B)(1) through (B)(4) of OAC 3701-29-08.

Site and Soil Evaluation for Sewage Treatment and Dispersal

County: Clark
 Township / Sec.: Pleasant
 Property Address/Location: Lot Splits Adj to 12481 Silvers Road
South Vienna
 Applicant Name: Bruner Land Company
 Address: _____
 Phone #: _____
 Lot #: _____
 Test Hole #: 3
 Latitude/Longitude: _____
 Method: Pit Auger Probe

Land Use / Vegetation: Bean
 Landform: Till Plain
 Position on Landform: Backslope
 Percent Slope: 3 to 5%
 Shape of Slope: Linear / Linear
 Bedrooms or GPD: 4
 Date: Monday, June 20, 2022
 Evaluator: Steven Miller, CPSSc
Soil & Environmental Consulting, Inc.
P.O. Box 1121
Delaware OH 43015
 Job Number: 22F301
 Soil Series: _____


 Signature: 
 Phone#: p-614.579.1164
soilconsultant@yahoo.com

Soil Profile		Estimating Soil Saturation			Estimating Soil Permeability							Other Soil Features
		Munsell Color (hue, value, chroma)			Texture			Structure				
Horizon	Depth (inches)	Matrix Color	Redoximorphic Features		Class	Approx. % Clay	Approx. % Fragments	Grade	Size	Type (shape)	Consistence	
			Concentrations	Depletions								
Ap	0 to 8	10YR 4/3			sicl	30	5	2	m	gr	fr	
Bt1	8 to 16	10YR 5/6			sic	40	5	2	m	sbk	fi	
Bt2	16 to 20	10YR 5/6		5%10YR 5/2	sic	40	5	2	m	sbk	fi	
BC	20 to 22	10YR 5/4		10%10yR 5/2	cl	30	8	1	m	sbk	fi	
Cd	22+	10YR 4/4		15%10YR 5/2	l	20	10	0		m	vfi	

Limiting Conditions	Depth (in)	Description	Remarks / Risk Factors:
Perched Seasonal Water Table	16	perched on glacial till	Surface water should be diverted around system. Subsurface ag drainage may be present.
Apparent Water Table	>60		
Highly Permeable Material	>60		
Bedrock	>60		
Restrictive Layer	22	glacial till	

Note : The evaluation shall include a complete site plan or site drawing including all requirements in paragraphs (B)(1) through (B)(4) of OAC 3701-29-08.

Site and Soil Evaluation for Sewage Treatment and Dispersal

County: Clark
 Township / Sec.: Pleasant
 Property Address/Location: Lot Splits Adj to 12481 Silvers Road
South Vienna
 Applicant Name: Bruner Land Company
 Address: _____
 Phone #: _____
 Lot #: _____
 Test Hole #: 4
 Latitude/Longitude: _____
 Method: Pit Auger Probe

Land Use / Vegetation: Bean
 Landform: Till Plain
 Position on Landform: Backslope
 Percent Slope: 3 to 5%
 Shape of Slope: Linear / Linear
 Bedrooms or GPD: 4
 Date: Monday, June 20, 2022
 Evaluator: Steven Miller, CPSSc
Soil & Environmental Consulting, Inc.
P.O. Box 1121
Delaware OH 43015
 Job Number: 22F301
 Soil Series: _____


 Signature: *Steven A. Miller*
 Phone#: p-614.579.1164
soilconsultant@yahoo.com

Soil Profile		Estimating Soil Saturation			Estimating Soil Permeability							Other Soil Features
		Munsell Color (hue, value, chroma)			Texture			Structure				
Horizon	Depth (inches)	Matrix Color	Redoximorphic Features		Class	Approx. % Clay	Approx. % Fragments	Grade	Size	Type (shape)	Consistence	
			Concentrations	Depletions								
Ap	0 to 9	10YR 4/3			sicl	30	5	2	m	gr	fr	
Bt1	9 to 16	10YR 5/6			sic	40	5	2	m	sbk	fi	
Bt2	16 to 19	10YR 5/6		10%10YR 5/2	sic	45	5	2	m	sbk	fi	
BC	19 to 23	10YR 5/4		15%10YR 5/2	1	25	8	1	m	sbk	fi	
Cd	23+	10YR 4/4		10%10YR 5/2	1	20	10	0		m	vfi	

Limiting Conditions	Depth (in)	Description	Remarks / Risk Factors:
Perched Seasonal Water Table	16	perched on glacial till	Surface water should be diverted around system. Subsurface ag drainage may be present.
Apparent Water Table	>60		
Highly Permeable Material	>60		
Bedrock	>60		
Restrictive Layer	23	glacial till	

Note : The evaluation shall include a complete site plan or site drawing including all requirements in paragraphs (B)(1) through (B)(4) of OAC 3701-29-08.

Site and Soil Evaluation for Sewage Treatment and Dispersal

County: Clark
 Township / Sec.: Pleasant
 Property Address/Location: Lot Splits Adj to 12481 Silvers Road
South Vienna
 Applicant Name: Bruner Land Company
 Address: _____
 Phone #: _____
 Lot #: _____
 Test Hole #: 5
 Latitude/Longitude: _____
 Method: Pit Auger Probe

Land Use / Vegetation: Bean
 Landform: Till Plain
 Position on Landform: Backslope
 Percent Slope: 10 to 11%
 Shape of Slope: Linear / Linear
 Bedrooms or GPD: 4
 Date: Monday, June 20, 2022
 Evaluator: Steven Miller, CPSSc
Soil & Environmental Consulting, Inc.
P.O. Box 1121
Delaware OH 43015
 Job Number: 22F301
 Soil Series: _____



Signature: *Steven A. Miller*
 Phone#: p-614.579.1164
soilconsultant@yahoo.com

Soil Profile		Estimating Soil Saturation			Estimating Soil Permeability							Other Soil Features
		Munsell Color (hue, value, chroma)			Texture			Structure				
Horizon	Depth (inches)	Matrix Color	Redoximorphic Features		Class	Approx. % Clay	Approx. % Fragments	Grade	Size	Type (shape)	Consistence	
			Concentrations	Depletions								
Ap	0 to 12	10YR 4/3			sicl	30	5	2	m	gr	fr	
Bt1	12 to 17	10YR 5/6			sic	40	5	2	m	sbk	fi	
Bt2	17 to 20	10YR 5/6		5%10YR 5/2	sic	40	5	2	m	sbk	fi	
BC	20 to 25	10YR 5/4		8%10YR 52	1	22	8	1	m	sbk	fi	
Cd	25+	10YR 4/4		10%10YR 5/2	1	20	10	0		m	vfi	

Limiting Conditions	Depth (in)	Description	Remarks / Risk Factors:
Perched Seasonal Water Table	17	perched on glacial till	Surface water should be diverted around system. Subsurface ag drainage may be present.
Apparent Water Table	>60		
Highly Permeable Material	>60		
Bedrock	>60		
Restrictive Layer	25	glacial till	

Note : The evaluation shall include a complete site plan or site drawing including all requirements in paragraphs (B)(1) through (B)(4) of OAC 3701-29-08.

Site and Soil Evaluation for Sewage Treatment and Dispersal

County: Clark
 Township / Sec.: Pleasant
 Property Address/Location: Lot Splits Adj to 12481 Silvers Road
South Vienna
 Applicant Name: Bruner Land Company
 Address: _____
 Phone #: _____
 Lot #: _____
 Test Hole #: 6
 Latitude/Longitude: _____
 Method: Pit Auger Probe

Land Use / Vegetation: Bean
 Landform: Till Plain
 Position on Landform: Backslope
 Percent Slope: 10 to 11%
 Shape of Slope: Linear / Linear
 Bedrooms or GPD: 4
 Date: Monday, June 20, 2022
 Evaluator: Steven Miller, CPSSc
Soil & Environmental Consulting, Inc.
P.O. Box 1121
Delaware OH 43015
 Job Number: 22F301
 Soil Series: _____



Signature: *Steven A. Miller*
 Phone#: p-614.579.1164
soilconsultant@yahoo.com

Soil Profile		Estimating Soil Saturation			Estimating Soil Permeability							Other Soil Features
		Munsell Color (hue, value, chroma)			Texture			Structure				
Horizon	Depth (inches)	Matrix Color	Redoximorphic Features		Class	Approx. % Clay	Approx. % Fragments	Grade	Size	Type (shape)	Consistence	
			Concentrations	Depletions								
Ap	0 to 8	10YR 4/3			sicl	32	5	2	m	gr	fr	
Bt1	8 to 12	10YR 5/6			sic	40	5	2	m	sbk	fi	
Bt2	12 to 23	10YR 5/6			sic	45	5	2	m	sbk	fi	
BC	23 to 26	10YR 5/4		5%10YR 5/2	1	25	8	1	m	sbk	fi	
Cd	26+	10YR 4/4		8%10YR 5/2	1	15	10	0		m	vfi	

Limiting Conditions	Depth (in)	Description	Remarks / Risk Factors:
Perched Seasonal Water Table	23	perched on glacial till	Surface water should be diverted around system. Subsurface ag drainage may be present.
Apparent Water Table	>60		
Highly Permeable Material	>60		
Bedrock	>60		
Restrictive Layer	26	glacial till	

Note : The evaluation shall include a complete site plan or site drawing including all requirements in paragraphs (B)(1) through (B)(4) of OAC 3701-29-08.

Site and Soil Evaluation for Sewage Treatment and Dispersal

County: Clark
 Township / Sec.: Pleasant
 Property Address/Location: Lot Splits Adj to 12481 Silvers Road
South Vienna
 Applicant Name: Bruner Land Company
 Address: _____
 Phone #: _____
 Lot #: _____
 Test Hole #: 7
 Latitude/Longitude: _____
 Method: Pit Auger Probe

Land Use / Vegetation: Bean
 Landform: Till Plain
 Position on Landform: Backslope
 Percent Slope: 5 to 10%
 Shape of Slope: Linear / Linear
 Bedrooms or GPD: 4
 Date: Monday, June 20, 2022
 Evaluator: Steven Miller, CPSSc
Soil & Environmental Consulting, Inc.
P.O. Box 1121
Delaware OH 43015
 Job Number: 22F301
 Soil Series: _____



Signature: *Steven A. Miller*
 Phone#: p-614.579.1164
soilconsultant@yahoo.com

Soil Profile		Estimating Soil Saturation			Estimating Soil Permeability							Other Soil Features
		Munsell Color (hue, value, chroma)			Texture			Structure				
Horizon	Depth (inches)	Matrix Color	Redoximorphic Features		Class	Approx. % Clay	Approx. % Fragments	Grade	Size	Type (shape)	Consistence	
			Concentrations	Depletions								
Ap	0 to 8	10YR 4/3			sicl	30	5	2	m	gr	fr	
Bt1	8 to 19	10YR 5/6		5%10YR 5/2	sicl	35	5	2	m	sbk	fi	
Bt2	19 to 27	10YR 5/6		15%10Yr 5/2	sic	40	5	2	m	sbk	fi	
BC	27 to 30	10YR 5/4		20%10YR 5/2	1	25	8	1	m	sbk	fi	
Cd	30+	10YR 4/4		15%10YR 5/2	1	15	10	0		m	vfi	

Limiting Conditions	Depth (in)	Description	Remarks / Risk Factors:
Perched Seasonal Water Table	8	perched on glacial till	Surface water should be diverted around system. Subsurface ag drainage may be present.
Apparent Water Table	>60		
Highly Permeable Material	>60		
Bedrock	>60		
Restrictive Layer	30	glacial till	

Note : The evaluation shall include a complete site plan or site drawing including all requirements in paragraphs (B)(1) through (B)(4) of OAC 3701-29-08.

Site and Soil Evaluation for Sewage Treatment and Dispersal

County: Clark
 Township / Sec.: Pleasant
 Property Address/Location: Lot Splits Adj to 12481 Silvers Road
South Vienna
 Applicant Name: Bruner Land Company
 Address: _____
 Phone #: _____
 Lot #: _____
 Test Hole #: 8
 Latitude/Longitude: _____
 Method: Pit Auger Probe

Land Use / Vegetation: Bean
 Landform: Till Plain
 Position on Landform: Backslope
 Percent Slope: 5 to 10%
 Shape of Slope: Linear / Linear
 Bedrooms or GPD: 4
 Date: Monday, June 20, 2022
 Evaluator: Steven Miller, CPSSc
Soil & Environmental Consulting, Inc.
P.O. Box 1121
Delaware OH 43015
 Job Number: 22F301
 Soil Series: _____


 Signature: *Steven A. Miller*
 Phone#: p-614.579.1164
soilconsultant@yahoo.com

Soil Profile		Estimating Soil Saturation			Estimating Soil Permeability							Other Soil Features
		Munsell Color (hue, value, chroma)			Texture			Structure				
Horizon	Depth (inches)	Matrix Color	Redoximorphic Features		Class	Approx. % Clay	Approx. % Fragments	Grade	Size	Type (shape)	Consistence	
			Concentrations	Depletions								
Ap	0 to 11	10YR 4/3			sil	25	5	2	m	gr	fr	
Bt1	11 to 15	10YR 5/4		5%10YR 5/3	siel	35	5	2	m	sbk	fi	
Bt2	15 to 30	10YR 5/4		10%10YR 5/2	sic	40	5	2	m	sbk	fi	
BC	30 to 32	10YR 5/4		15%10YR 5/2	1	25	8	1	m	sbk	fi	
Cd	32+	10YR 4/4		12%10YR 5/1	1	20	10	0		m	vfi	

Limiting Conditions	Depth (in)	Description	Remarks / Risk Factors:
Perched Seasonal Water Table	15	perched on glacial till	Surface water should be diverted around system. Subsurface ag drainage may be present.
Apparent Water Table	>60		
Highly Permeable Material	>60		
Bedrock	>60		
Restrictive Layer	32	glacial till	

Note : The evaluation shall include a complete site plan or site drawing including all requirements in paragraphs (B)(1) through (B)(4) of OAC 3701-29-08.

Site and Soil Evaluation for Sewage Treatment and Dispersal

County: Clark
 Township / Sec.: Pleasant
 Property Address/Location: Lot Splits Adj to 12481 Silvers Road
South Vienna
 Applicant Name: Bruner Land Company
 Address: _____
 Phone #: _____
 Lot #: _____
 Test Hole #: 9
 Latitude/Longitude: _____
 Method: Pit Auger Probe

Land Use / Vegetation: Bean
 Landform: Till Plain
 Position on Landform: Backslope
 Percent Slope: 5 to 8%
 Shape of Slope: Linear / Linear
 Bedrooms or GPD: 4
 Date: Monday, June 20, 2022
 Evaluator: Steven Miller, CPSSc
Soil & Environmental Consulting, Inc.
P.O. Box 1121
Delaware OH 43015
 Job Number: 22F301
 Soil Series: _____


 Signature: 
 Phone#: p-614.579.1164
soilconsultant@yahoo.com

Soil Profile		Estimating Soil Saturation			Estimating Soil Permeability							Other Soil Features
		Munsell Color (hue, value, chroma)			Texture			Structure				
Horizon	Depth (inches)	Matrix Color	Redoximorphic Features		Class	Approx. % Clay	Approx. % Fragments	Grade	Size	Type (shape)	Consistence	
			Concentrations	Depletions								
Ap	0 to 8	10YR 3.5/3			sil	22	5	2	m	gr	fr	
Bt1	8 to 23	10YR 5/4		15%10YR 5/2	siel	35	5	2	m	sbk	fi	
Bt2	23 to 34	10YR 5/4		20%10YR 5/2	sic	40	5	2	m	sbk	fi	
BC	34 to 38	10YR 5/4		30%10YR 5/2	l	25	8	1	m	sbk	fi	
C	38+	10YR 4/4		25%10YR 5/1	l	20	10	0		m	fi	

Limiting Conditions	Depth (in)	Description	Remarks / Risk Factors:
Perched Seasonal Water Table	8	perched on glacial till	Surface water should be diverted around system. Subsurface ag drainage may be present.
Apparent Water Table	>60		
Highly Permeable Material	>60		
Bedrock	>60		
Restrictive Layer	38	glacial till	

Note : The evaluation shall include a complete site plan or site drawing including all requirements in paragraphs (B)(1) through (B)(4) of OAC 3701-29-08.

Site and Soil Evaluation for Sewage Treatment and Dispersal

County: Clark
 Township / Sec.: Pleasant
 Property Address/Location: Lot Splits Adj to 12481 Silvers Road
South Vienna
 Applicant Name: Bruner Land Company
 Address: _____
 Phone #: _____
 Lot #: _____
 Test Hole #: 10
 Latitude/Longitude: _____
 Method: Pit Auger Probe

Land Use / Vegetation: Bean
 Landform: Till Plain
 Position on Landform: Backslope
 Percent Slope: 5 to 8%
 Shape of Slope: Linear / Linear
 Bedrooms or GPD: 4
 Date: Monday, June 20, 2022
 Evaluator: Steven Miller, CPSSc
Soil & Environmental Consulting, Inc.
P.O. Box 1121
Delaware OH 43015
 Job Number: 22F301
 Soil Series: _____



Signature: *Steven A. Miller*
 Phone#: p-614.579.1164
soilconsultant@yahoo.com

Soil Profile		Estimating Soil Saturation			Estimating Soil Permeability							Other Soil Features
		Munsell Color (hue, value, chroma)			Texture			Structure				
Horizon	Depth (inches)	Matrix Color	Redoximorphic Features		Class	Approx. % Clay	Approx. % Fragments	Grade	Size	Type (shape)	Consistence	
			Concentrations	Depletions								
Ap	0 to 8	10YR 3.5/3			sil	22	5	2	m	gr	fr	
Bt1	8 to 20	10YR 5/3		25%10YR 5/2	siel	35	5	2	m	sbk	fi	
Bt2	20 to 35	10YR 5/4		30%10Yr 5/2	sic	40	5	2	m	sbk	fi	
BC	35 to 42	10YR 5/4		35%10yR 5/2	l	20	8	1	m	sbk	fi	
C	42+	10YR 4/4		30%10Yr 5/2	l	15	10	0		m	fi	

Limiting Conditions	Depth (in)	Description	Remarks / Risk Factors:
Perched Seasonal Water Table	8	perched on glacial till	Surface water should be diverted around system. Subsurface ag drainage may be present.
Apparent Water Table	>60		
Highly Permeable Material	>60		
Bedrock	>60		
Restrictive Layer	42	glacial till	

Note : The evaluation shall include a complete site plan or site drawing including all requirements in paragraphs (B)(1) through (B)(4) of OAC 3701-29-08.

Site and Soil Evaluation for Sewage Treatment and Dispersal

County: Clark
 Township / Sec.: Pleasant
 Property Address/Location: Lot Splits Adj to 12481 Silvers Road
South Vienna
 Applicant Name: Bruner Land Company
 Address: _____
 Phone #: _____
 Lot #: _____
 Test Hole #: 11
 Latitude/Longitude: _____
 Method: Pit Auger Probe

Land Use / Vegetation: Bean
 Landform: Till Plain
 Position on Landform: Backslope
 Percent Slope: 2.0%
 Shape of Slope: Linear / Linear
 Bedrooms or GPD: 4
 Date: Monday, June 20, 2022
 Evaluator: Steven Miller, CPSSc
Soil & Environmental Consulting, Inc.
P.O. Box 1121
Delaware OH 43015
 Job Number: 22F301
 Soil Series: _____



Signature: *Steven A. Miller*
 Phone#: p-614.579.1164
soilconsultant@yahoo.com

Soil Profile		Estimating Soil Saturation			Estimating Soil Permeability							Other Soil Features
		Munsell Color (hue, value, chroma)			Texture			Structure				
Horizon	Depth (inches)	Matrix Color	Redoximorphic Features		Class	Approx. % Clay	Approx. % Fragments	Grade	Size	Type (shape)	Consistence	
			Concentrations	Depletions								
Ap	0 to 8	10RY 3/3			sil	22	5	2	m	gr	fr	
Bt1	8 to 25	10YR 5/3		35%10YR 5/2	sic1	32	5	2	m	sbk	fi	
Bt2	25 to 40	10Yr 5/3		40%10YR 5/2	sic1	36	8	2	m	sbk	fi	
BC	40 to 46	10YR 5/4		30%10YR 5/2	1	20	10	1	m	sbk	fi	
C	46+	10YR 4/4		25%10Yr 5/2	gr 1	15	15	0		m	fi	

Limiting Conditions	Depth (in)	Description	Remarks / Risk Factors:
Perched Seasonal Water Table	8	perched on glacial till	Surface water should be diverted around system. Subsurface ag drainage may be present.
Apparent Water Table	>60		
Highly Permeable Material	>60		
Bedrock	>60		
Restrictive Layer	46	glacial till	

Note : The evaluation shall include a complete site plan or site drawing including all requirements in paragraphs (B)(1) through (B)(4) of OAC 3701-29-08.

Site and Soil Evaluation for Sewage Treatment and Dispersal

County: Clark
 Township / Sec.: Pleasant
 Property Address/Location: Lot Splits Adj to 12481 Silvers Road
South Vienna
 Applicant Name: Bruner Land Company
 Address: _____
 Phone #: _____
 Lot #: _____
 Test Hole #: 12
 Latitude/Longitude: _____
 Method: Pit Auger Probe

Land Use / Vegetation: Bean
 Landform: Till Plain
 Position on Landform: Backslope
 Percent Slope: 6.0%
 Shape of Slope: Linear / Linear
 Bedrooms or GPD: 4
 Date: Monday, June 20, 2022
 Evaluator: Steven Miller, CPSSc
Soil & Environmental Consulting, Inc.
P.O. Box 1121
Delaware OH 43015
 Job Number: 22F301
 Soil Series: _____



Signature: *Steven A. Miller*
 Phone#: p-614.579.1164
soilconsultant@yahoo.com

Soil Profile		Estimating Soil Saturation			Estimating Soil Permeability							Other Soil Features
		Munsell Color (hue, value, chroma)			Texture			Structure				
Horizon	Depth (inches)	Matrix Color	Redoximorphic Features		Class	Approx. % Clay	Approx. % Fragments	Grade	Size	Type (shape)	Consistence	
			Concentrations	Depletions								
Ap	0 to 8	10RY 3/3			sil	22	5	2	m	gr	fr	
Bt1	8 to 21	10YR 5/3		40%10Yr 5/2	sic1	34	5	2	m	sbk	fi	
Bt2	21 to 38	10YR 5/4		45%10YR 5/2	sic1	36	8	2	m	sbk	fi	
BC	38 to 43	10YR 5/3		35%10YR 5/2	1	22	10	1	m	sbk	fi	
C	43+	10YR 4/3		30%10YR 5/2	gr 1	15	15	0		m	fi	

Limiting Conditions	Depth (in)	Description	Remarks / Risk Factors:
Perched Seasonal Water Table	8	perched on glacial till	Surface water should be diverted around system. Subsurface ag drainage may be present.
Apparent Water Table	>60		
Highly Permeable Material	>60		
Bedrock	>60		
Restrictive Layer	43	glacial till	

Note : The evaluation shall include a complete site plan or site drawing including all requirements in paragraphs (B)(1) through (B)(4) of OAC 3701-29-08.

Site and Soil Evaluation for Sewage Treatment and Dispersal

County: Clark
 Township / Sec.: Pleasant
 Property Address/Location: Lot Splits Adj to 12481 Silvers Road
South Vienna
 Applicant Name: Bruner Land Company
 Address: _____
 Phone #: _____
 Lot #: _____
 Test Hole #: 13
 Latitude/Longitude: _____
 Method: Pit Auger Probe

Land Use / Vegetation: Bean
 Landform: Till Plain
 Position on Landform: Backslope
 Percent Slope: 4 to 5%
 Shape of Slope: Linear / Linear
 Bedrooms or GPD: 4
 Date: Monday, June 20, 2022
 Evaluator: Steven Miller, CPSSc
Soil & Environmental Consulting, Inc.
P.O. Box 1121
Delaware OH 43015
 Job Number: 22F301
 Soil Series: _____



Signature: *Steven A. Miller*
 Phone#: p-614.579.1164
soilconsultant@yahoo.com

Soil Profile		Estimating Soil Saturation			Estimating Soil Permeability							Other Soil Features
		Munsell Color (hue, value, chroma)			Texture			Structure				
Horizon	Depth (inches)	Matrix Color	Redoximorphic Features		Class	Approx. % Clay	Approx. % Fragments	Grade	Size	Type (shape)	Consistence	
			Concentrations	Depletions								
Ap	0 to 8	10RY 3/3			sil	22	5	2	m	gr	fr	
Bt1	8 to 12	10YR 5/6			sicl	35	5	2	m	sbk	fi	
Bt2	12 to 21	10YR 5/4		15%10RY 5/2	sic	40	8	2	m	sbk	fi	
BC	21 to 24	10YR 5/4		20%10YR 5/2	l	25	10	1	m	sbk	fi	
C	24+	10YR 4/4		15%10YR 5/2	gr l	15	15	0		m	fi	

Limiting Conditions	Depth (in)	Description	Remarks / Risk Factors:
Perched Seasonal Water Table	12	perched on glacial till	Surface water should be diverted around system. Subsurface ag drainage may be present.
Apparent Water Table	>60		
Highly Permeable Material	>60		
Bedrock	>60		
Restrictive Layer	24	glacial till	

Note : The evaluation shall include a complete site plan or site drawing including all requirements in paragraphs (B)(1) through (B)(4) of OAC 3701-29-08.

Site and Soil Evaluation for Sewage Treatment and Dispersal

County: Clark
 Township / Sec.: Pleasant
 Property Address/Location: Lot Splits Adj to 12481 Silvers Road
South Vienna
 Applicant Name: Bruner Land Company
 Address: _____
 Phone #: _____
 Lot #: _____
 Test Hole #: 14
 Latitude/Longitude: _____
 Method: Pit Auger Probe

Land Use / Vegetation: Bean
 Landform: Till Plain
 Position on Landform: Backslope
 Percent Slope: 4 to 5%
 Shape of Slope: Linear / Linear
 Bedrooms or GPD: 4
 Date: Monday, June 20, 2022
 Evaluator: Steven Miller, CPSSc
Soil & Environmental Consulting, Inc.
P.O. Box 1121
Delaware OH 43015
 Job Number: 22F301
 Soil Series: _____



Signature: *Steven A. Miller*
 Phone#: p-614.579.1164
soilconsultant@yahoo.com

Soil Profile		Estimating Soil Saturation			Estimating Soil Permeability							Other Soil Features
		Munsell Color (hue, value, chroma)			Texture			Structure				
Horizon	Depth (inches)	Matrix Color	Redoximorphic Features		Class	Approx. % Clay	Approx. % Fragments	Grade	Size	Type (shape)	Consistence	
			Concentrations	Depletions								
Ap	0 to 8	10YR 4/3			sil	22	5	2	m	gr	fr	
Bt1	8 to 15	10YR 5/4		10%10YR 5/2	sic1	30	5	2	m	sbk	fi	
Bt2	15 to 27	10YR 5/4		20%10YR 5/2	sic1	35	8	2	m	sbk	fi	
BC	27 to 30	10YR 5/4		25%10YR 5/2	l	20	12	1	m	sbk	fi	
C	30+	10YR 4/4		20%10yR 5/2	gr l	15	15	0		m	fi	

Limiting Conditions	Depth (in)	Description	Remarks / Risk Factors:
Perched Seasonal Water Table	8	perched on glacial till	Surface water should be diverted around system. Subsurface ag drainage may be present.
Apparent Water Table	>60		
Highly Permeable Material	>60		
Bedrock	>60		
Restrictive Layer	30	glacial till	

Note : The evaluation shall include a complete site plan or site drawing including all requirements in paragraphs (B)(1) through (B)(4) of OAC 3701-29-08.

Site and Soil Evaluation for Sewage Treatment and Dispersal

County: Clark
 Township / Sec.: Pleasant
 Property Address/Location: Lot Splits Adj to 12481 Silvers Road
South Vienna
 Applicant Name: Bruner Land Company
 Address: _____
 Phone #: _____
 Lot #: _____
 Test Hole #: 15
 Latitude/Longitude: _____
 Method: Pit Auger Probe

Land Use / Vegetation: Bean
 Landform: Till Plain
 Position on Landform: Backslope
 Percent Slope: 5 to 8%
 Shape of Slope: Linear / Linear
 Bedrooms or GPD: 4
 Date: Monday, June 20, 2022
 Evaluator: Steven Miller, CPSSc
Soil & Environmental Consulting, Inc.
P.O. Box 1121
Delaware OH 43015
 Job Number: 22F301
 Soil Series: _____


 Signature: *Steven A. Miller*
 Phone#: p-614.579.1164
soilconsultant@yahoo.com

Soil Profile		Estimating Soil Saturation			Estimating Soil Permeability							Other Soil Features
		Munsell Color (hue, value, chroma)			Texture			Structure				
Horizon	Depth (inches)	Matrix Color	Redoximorphic Features		Class	Approx. % Clay	Approx. % Fragments	Grade	Size	Type (shape)	Consistence	
			Concentrations	Depletions								
Ap	0 to 7	10YR 4/3			sil	25	5	2	m	gr	fr	
Bt1	7 to 15	10YR 5/6			sic	40	5	2	m	sbk	fi	
Bt2	15 to 22	10YR 5/4		10%10YR 5/2	sic	42	8	2	m	sbk	fi	
BC	22 to 26	10YR 5/4		15%10yr 5/2	l	25	12	1	m	sbk	fi	
C	26+	10YR 4/4		10%10YR 5/2	gr l	15	15	0		m	fi	

Limiting Conditions	Depth (in)	Description	Remarks / Risk Factors:
Perched Seasonal Water Table	15	perched on glacial till	Surface water should be diverted around system. Subsurface ag drainage may be present.
Apparent Water Table	>60		
Highly Permeable Material	>60		
Bedrock	>60		
Restrictive Layer	26	glacial till	

Note : The evaluation shall include a complete site plan or site drawing including all requirements in paragraphs (B)(1) through (B)(4) of OAC 3701-29-08.

Site and Soil Evaluation for Sewage Treatment and Dispersal

County: Clark
 Township / Sec.: Pleasant
 Property Address/Location: Lot Splits Adj to 12481 Silvers Road
South Vienna
 Applicant Name: Bruner Land Company
 Address: _____
 Phone #: _____
 Lot #: _____
 Test Hole #: 16
 Latitude/Longitude: _____
 Method: Pit Auger Probe

Land Use / Vegetation: Bean
 Landform: Till Plain
 Position on Landform: Backslope
 Percent Slope: 5 to 8%
 Shape of Slope: Linear / Linear
 Bedrooms or GPD: 4
 Date: Monday, June 20, 2022
 Evaluator: Steven Miller, CPSSc
Soil & Environmental Consulting, Inc.
P.O. Box 1121
Delaware OH 43015
 Job Number: 22F301
 Soil Series: _____



Signature: *Steven A. Miller*
 Phone#: p-614.579.1164
soilconsultant@yahoo.com

Soil Profile		Estimating Soil Saturation			Estimating Soil Permeability							Other Soil Features
		Munsell Color (hue, value, chroma)			Redoximorphic Features			Texture		Structure		
Horizon	Depth (inches)	Matrix Color	Concentrations	Depletions	Class	Approx. % Clay	Approx. % Fragments	Grade	Size	Type (shape)	Consistence	
Ap	0 to 8	10YR 4/3			sil	25	5	2	m	gr	fr	
Bt1	8 to 12	10YR 5/6			sic	40	5	2	m	sbk	fi	
Bt2	12 to 24	10YR 5/4		15% 10YR 5/2	sic	42	10	2	m	sbk	fi	
BC	24 to 29	10YR 5/4		20% 10YR 5/2	l	22	12	1	m	sbk	fi	
C	29+	10YR 4/4		15% 10YR 5/2	gr l	15	15	0		m	fi	

Limiting Conditions	Depth (in)	Description	Remarks / Risk Factors:
Perched Seasonal Water Table	12	perched on glacial till	Surface water should be diverted around system. Subsurface ag drainage may be present.
Apparent Water Table	>60		
Highly Permeable Material	>60		
Bedrock	>60		
Restrictive Layer	29	glacial till	

Note : The evaluation shall include a complete site plan or site drawing including all requirements in paragraphs (B)(1) through (B)(4) of OAC 3701-29-08.

Landforms
Upland*
Terrace
Flood Plain
Lake Plain
Beach Ridge
*Includes glacial till plain and end moraine

Position on Landform
Depression
Flat
Knoll
Crest
Hillslope
Footslope

Shape of Slope
Convex
Concave
Linear
Complex

Horizon Nomenclature			
Master Horizons		Horizon Suffixes	Horizon Modifiers
O	Predominantly organic matter (litter & humus)	a Highly decomposed organic matter	Numerical Prefixes: Used to denote lithologic discontinuities.
A	Mineral, organic matter (humus) accumulation, loss of Fe, Al, clay	b Buried genetic horizon	
E	Mineral, loss of Si, Fe, Al, clay, organic matter	d Densic layer (physically root restrictive)	Numerical Suffixes: Used to denote subdivisions within a master horizon.
B	Subsurface accumulation of clay, Fe, Al, Si, humus; sesquioxides; loss of CaCO ₃ ; subsurface soil structure	e Moderately decomposed organic matter	
C	Little or no pedogenic alteration, unconsolidated earthy material, soft bedrock	g Strong gley	
R	Hard bedrock	i Slightly decomposed organic matter	
		p Plow layer or artificial disturbance	
		r Weathered or soft bedrock	
		t Illuvial accumulation of silicate clay	
		w Weak color or structure within B	
		x Fragipan characteristics	

Soil Texture	
Texture Class Abbreviations	Textural Class Modifiers
Course Sand cos	Gravelly GR
Sand s	Fine Gravelly FGR
Fine Sand fs	Medium Gravelly MGR
Very Fine Sand vfs	Coarse Gravelly CGR
Loamy Coarse Sand lcos	Very Gravelly VGR
Loamy Sand ls	Extremely Gravelly XGR
Loamy Fine Sand lfs	Cobbly CB
Loamy Very Fine Sand lvfs	Very Cobbly VCB
Coarse Sandy Loam cosl	Extremely Cobbly XCB
Sandy Loam sl	Stony ST
Fine Sandy Loam fsl	Very Stony VST
Very Fine Sandy Loam vfsl	Extremely Stony XST
Loam l	Bouldery BY
Silt Loam sil	Very Bouldery VBY
Silt si	Extremely Bouldery XBY
Sandy Clay Loam scl	Channery CN
Clay Loam cl	Very Channery VCN
Silty Clay Loam siel	Extremely Channery XCN
Sandy Clay sc	Flaggy FL
Silty Clay sic	Very Flaggy VFL
Clay c	Extremely Flaggy XFL

*Estimate approximate clay percentage within 5 percent

Soil Structure					
Grade	Size	Type (Shape)			
Structureless 0	Very Fine vf	Granular	gr		
Weak 1	Fine f	Angular Blocky	abk		
Moderate 2	Medium m	Subangular Blocky	sbk		
Strong 3	Coarse co	Platy	pl		
	Very Coarse vc	Prismatic	pr		
	Extr. Coarse ec	Columnar	cpr		
	Very Thin* vn	Single Grain	sg		
	Thin* tn	Massive	m		
	Thick* tk	Cloddy	CDY		
	Very Thick* vk				

* The sizes Very Thin, Thin, Thick, and Very Thick, are used when describing platy structure only. Substitute thin for fine, and thick for coarse when describing platy structure.

Moist Consistence	
Loose	l
Very Friable	vfr
Friable	fr
Firm	fi
Very Firm	vfi
Extremely Firm	efi

For a more detailed explanation on describing and sampling soils, please refer to the "Field Book for Describing and Sampling Soils" Schoeneberger, P.J., Wysocki, D.A., Benham, E.C., and Broderson, W.D. (editors) 2002. Field book for describing and sampling soils, version 2.0. Natural Resources Conservation Service, USDA, National Soil Survey Center, Lincoln, NE.