

TENNESSEE DEPARTMENT OF ENVIRONMENT AND CONSERVATION

Division of Water Resources William R. Snodgrass Tennessee Tower, 312 Rosa L. Parks Avenue, 11th Floor, Nashville, Tennessee, 37243

1-888-891-8332 (TDEC)

Application for Aquatic Resource Alteration Permit (ARAP) & State §401 Water Quality Certification

OFFICIAL STATE USE ONLY Site #:			Permit	#: NR	2204.11	7
Section 1. Applicant Information (individual responsible for	or site, signs c	ertification b	celow)			
Applicant Name (company or individual): 3BC, LLC				SOS #: (00087227	Status: Active
Primary Contact/Signatory: Howard George			s Title or	r Position: Pre	sident	
Mailing Address: 702 Prince Edward Ct.		City: Murf	freesbo	oro	State: TN	Zip: 37067
Phone: 615-513-1173 Fax:		E-mail: buo	dgeorg	ge67@gmail	.com	
Section 2. Alternate Contact/Consultant Information (a c	consultant is n	ot required)				
Alternate Contact Name: Jeremy Moody						
Company: Moody Excavating, LLC		Title or Pos	sition: Co	ontractor		
Mailing Address: 111 Forbus Dr		City: Chris	stiana		State: TN	Zip: 37037
Phone: 615-542-0491 Fax:		E-mail: Jere	emy.Moo	ody@moody-llc.	com	
Section 3. Fee (application will be incomplete until fee is rea	ceived)					
No Fee Fee Submitted with App	lication	A	Amount	Submitted: \$	500	
Current application fee schedules can be found at the Divis https://www.tn.gov/environment/permit-permits/water-permit or by calling (615) 532-0625. Please make checks payable Billing Contact (if different from Applicant): Name Address:	its1/aquatic-re to "Treasurer,	State of Te	ration-pe	ermitaraphti		
Section 4. Project Details (fill in information and check app	propriato hovo	c)				
			o:, T	N4 1 1		
Site or Project Name: Clearview Acres, Section			-	wn or Major La		
Street Address or Location (include zip): along Walnu	ut Grove	Road, V	West	of Shelby	yville Pik	e (37037)
County(ies): Rutherford	MS4 Jurisdi	iction:		Latitude (dd.do Longitude (dd.		61
Resources Proposed for Alteration: Stream / Riv	ver	Wetland	- F	Reservoir		
Name of Water Resource (for more information, access http	://tdeconline.t	n.gov/dwr):	Misc Tril	bs to West Fork	Stones River (T	N05130203018_0999)
Brief Project Description (a more detailed description is requ	iired under Se	ection 8): B	ank	gradin	g for p	ond outlet
Does the proposed activity require approval from the U.S. A federal, state, or local government agency?	rmy Corps of Yes	Engineers, ti	the Tenr	nessee Valley	Authority, or a	any other
If Yes, provide the permit reference numbers:						
Will the activity require a 401 Water Quality Certification:	Yes	No)			
If Yes, attach any 401 WQC pre-filing meeting request docu	mentation					
Is the proposed activity associated with a larger common plan of development:						
If Yes, submit site plans and identify the location and overall scope of the common plan of development.						
Plans attached? Yes No If applicable, indicate any other federal, state, or local permits that are associated with the overall project site (common plan of development) that have been obtained in the past (e.g., construction general permit and/or other ARAP):						

Rcd

DWR em

4.21.2022

Application for Aquatic Resource Alteration Permit (ARAP) & State §401 Water Quality Certification

Section 5. Project Schedule (fill in information and check appropriate boxes)						
Proposed start date: June 2022	Estimated end date: June 2023					
Is any portion of the activity complete now?	Yes	No				
If yes, describe the extent of the completed portion:						

The required information in Sections 6-11 must be submitted on a separate sheet(s) and submitted in the same numbered format as presented below. If any question in not applicable, state the reason why it is not applicable.

Secti	on 6. Description	Attac	ched
0000		Yes	No
6.1	A narrative description of the scope of the project		
6.2	USGS topographic map indicating the exact location of the project (can be a photographic copy)		
6.3	Photographs of the resource(s) proposed for alteration with location description (photo locations should be noted on map)		
6.4	A narrative description of the existing stream and/or wetland characteristics including, but not limited to, dimensions (e.g., depth, length, average width), substrate and riparian vegetation		
6.5	A narrative description of the proposed stream and/or wetland characteristics including, but not limited to, dimensions (e.g., depth, length, average width), substrate and riparian vegetation		
6.6	In the case of wetlands, include a wetland delineation with delineation forms and site map denoting location of data points		
6.7	A copy of all hydrologic or jurisdictional determination documents issued for water resources on the project site		

Section 7. Project Rationale Attached Yes No Describe the need for the proposed activity, including, but not limited to the purpose, alternatives considered and rationale for selection of least impactful alternative, and what will be done to avoid or minimize impacts to water resources Image: Constraint of the proposed activity of the purpose of the purpo

Secti	on 8. Technical Information		ched No
8.1	Detailed plans, specifications, blueprints, or legible sketches of present site conditions and the proposed activity. Plans must be 8.5.x 11 inches. Additional larger plans may also be submitted to aid in application review. The detailed plans should be superimposed on existing and new conditions (e.g., stream cross sections where road crossings are proposed)	∎	
8.2	For the proposed activity and compensatory mitigation, provide a discussion regarding the sequencing of events and construction methods and any proposed monitoring		
8.3	Depiction and narrative on the location and type of erosion prevention and sediment control (EPSC) measures for the proposed alterations and any other measures to treat, control, or manage impacts to waters	▣	

Section 9. Water Resources Degradation (degree of proposed impact)

Note that in most cases, activities that exceed the scope of the General Permit limitations are considered greater than *de minimis* degradation to water quality.

Please provide your basis for concluding the proposed activity will cause one of the following levels of water quality degradation:



De minimis degradation, no appreciable permanent loss of resource values

Greater than de minimis degradation (if greater than de minimis complete Sections 10-11)

For information and guidance on the definition of de minimis and degradation, refer to the Antidegradation Statement in Chapter 0400-40-03-.06 of the Tennessee Water Quality Criteria Rule: https://publications.tnsosfiles.com/rules/0400/0400-40.htm

For more information on specifics on what General Permits can cover, refer to the Natural Resources Unit webpage at: https://www.tn.gov/environment/permit-permits/water-permits1/aquatic-resource-alteration-permit--arap-.html

Application for Aquatic Resource Alteration Permit (ARAP) & State §401 Water Quality Certification

Sectio	on 10. Detailed Alternatives Analysis	Attac Yes	hed No
10.1	Analyze all reasonable alternatives and describe the level of degradation and permanent loss of resource value caused by each alternative. Assessment must consider options other than the "Preferred" and "No Action" alternatives. Provide associated rationale for selecting or rejecting all alternatives considered and demonstration that the least impactful practicable alternative was selected.		
10.2	Discuss the social and economic consequences of each alternative		
10.3	Demonstrate that the degradation associated with the preferred alternative will not violate water quality criteria for uses designated in the receiving waters, and is necessary to accommodate important economic and social development in the area		

Sectio	on 11. Compensatory Mitigation	Attac Yes	ched No
11.1	A detailed discussion of the proposed compensatory mitigation. Provide evidence of credit reservation if proposing to utilize a third-party provider.		
11.2	Analysis of any proposed appreciable loss of resource value using the TN Stream Mitigation Guidelines. Provide Stream Quantification Tool (SQT) results if applicable. Include Existing Condition Score (ECS) and debit/credit calculations.		
11.3	Describe how the compensatory mitigation would result in no net loss of resource value		
11.4	Provide a detailed monitoring plan for the compensatory mitigation site if permittee-responsible project is proposed		
11.5	Describe the long-term protection measures for the compensatory mitigation site if permittee-responsible project is proposed (e.g., deed restrictions, conservation easement)		

Certification and Signature

An application submitted by a corporation must be signed by a principal executive officer; from a partnership or proprietorship, by the partner or proprietor respectively; from a municipal, state, federal or other public agency or facility, the application must be signed by either a principal executive officer, ranking elected official, or other duly authorized employee. I certify under penalty of law that this document and all attachments were prepared by me, or under my direction or supervision. The submitted information is to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment. As specified in Tennessee Code Annotated Section 39-16-702(a)(4), this declaration is made under penalty of perjury. The project proponent hereby requests that the certifying authority review and take action on this CWA 401 certification request within the applicable reasonable period of time.

Howard George	President	R/1	43	4.5.22
Printed Name	Official Title	Signature	0	Date

Note that this form must be signed by the principal executive officer, partner or proprietor, or a ranking elected official in the case of a municipality; for details see **Certification and Signature** statement above. For more information, contact your local EFO at the toll-free number 1-888-891-8332 (TDEC). Submit the completed ARAP Application form (keep a copy for your records) to the appropriate EFO for the county(ies) where the proposed activity is located, addressed to **Attention: ARAP Processing**. You may also electronically submit the complete application and all associated attachments to water.permits@tn.gov.

EFO	Street Address	Zip Code	EFO	Street Address	Zip Code
Memphis	8383 Wolf Lake Drive, Bartlett	38133-4119	Cookeville	1221 South Willow Ave.	38506
Jackson	1625 Hollywood Drive	38305-4316	Chattanooga	1301 Riverfront Pkwy., Ste. 206	37402
Nashville	711 R S Gass Boulevard	37243	Knoxville	3711 Middlebrook Pike	37921
Columbia	1421 Hampshire Pike	38401	Johnson City	2305 Silverdale Road	37601



SEC, Inc.

SITE ENGINEERING CONSULTANTS

Engineering • Surveying • Land Planning 850 Middle Tennessee Blvd, Murfreesboro, TN 37129 www.sec-civil.com • 615-890-7901 • fax 615-895-2567

April 14, 2022

Attention ARAP Processing Nashville EFO Water.permits@tn.gov 711 R.S. Gass Blvd. Nashville, TN 37243

RE: Clearview Acres, Section 4 Rutherford County, TN SEC Project No. 14300

To Whom It May Concern:

On behalf of our client, 3BC, LLC, enclosed is an application for an *Aquatic Resource Alteration Permits* for an Clearview Acres, Section 4 on their property off Walnut Grove Road.

This ARAP application is for covering the detention pond outlet. The ARAP application form has the supplemental sections 6 to 8 and a $\frac{1}{2}$ size set of the larger common plan of development have been included. Also, included is the application fee of \$500 for a General Permit requiring notification for each new permit.

If you have any questions, comments, or if any additional information is required, please contact me. Please send a copy of the Notice of Coverage (NOC) to me via mail or email at jcolson@sec-civil.com.

Sincerely,

Joshua Colson, E.I. SEC, Inc.

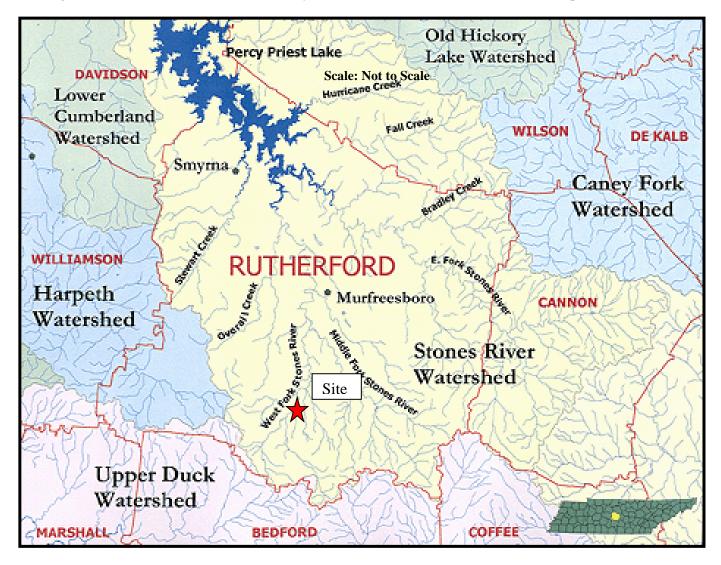
Enclosures: ARAP (Electronically) Set of Construction Plans (Electronically) Supplemental Sections (Electronically) Review Fee Check (via Mail)

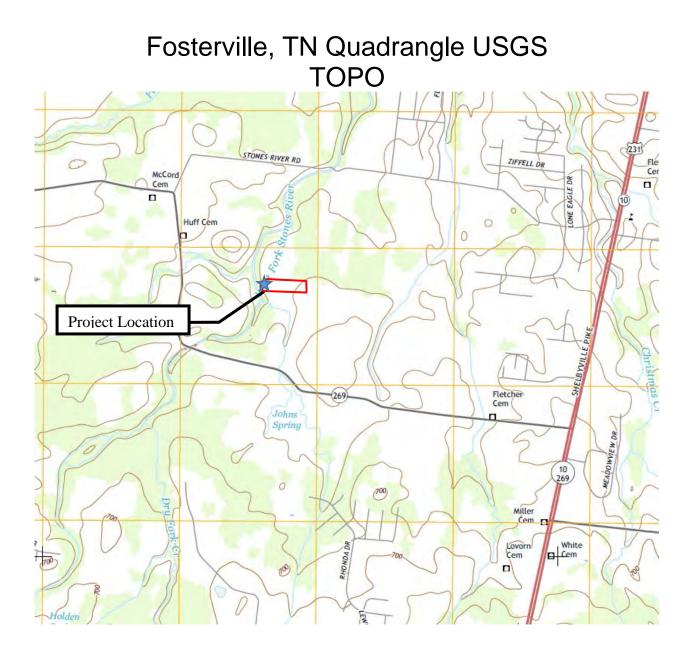
Application for Aquatic Resource Alteration Permit (ARAP) for Clearview Acres – Section 4, Pond Outlet

Section 6: Project Description

6.1 A narrative description of the scope of the project:

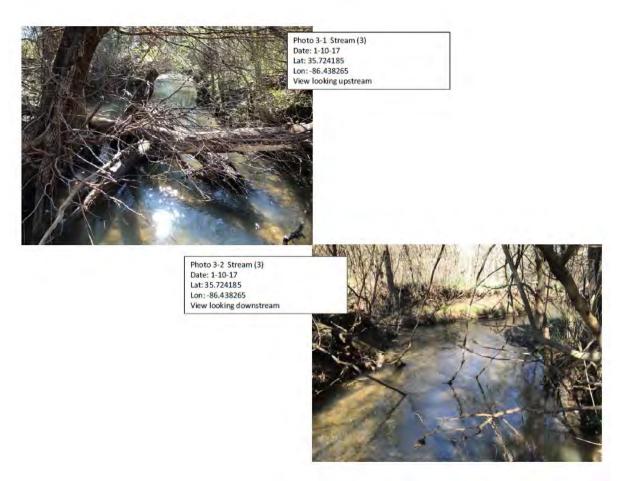
3BC, LLC is requesting bank grading of an Unnamed Tributary to West Fork Stones River in order to provide drainage to the subdivisions of Clearview Acres using a detention pond on the Western portion of the site. The proposed site is located along Walnut Grove Road, West of Shelbyville Pike in Rutherford County (Tax Map 159, Parcel 6.00 and 6.01). The stream bank modification would take place approximately at Latitude 35.7243 and Longitude -86.4382 of the Unnamed Tributary to West Fork Stones River (see attached maps).





Bank Modification - ★

6.3 Photograph of the resource(s) proposed for alteration with location description:



Picture of the Unnamed Tributary to West Fork Stones River near the bank modification/pond outlet

6.4 A narrative description of the existing stream:

This section of West Fork Stones River (Segment ID: TN05130203018_0999) is located in the limits of Rutherford County, TN. The *TDEC Tennessee Stream Assessment Map* shows this section of West Fork Stones River as an impaired stream, and therefore not supporting. The vegetation lining the stream bank are grasses and trees common to stream banks in the area. There are no known wetlands to exist in the area of the bank modification, as shown in the attached HD Report (DWR ID No. 8778).

6.5 A narrative description of the proposed stream:

The proposed detention pond outlet will be standard construction, with grading to allow the site to drain. The areas where backfill will be required will be primarily replacing the removed soil. The vegetation in the area of the crossing will be removed and replaced with sedimentation prevention cover. Areas disturbed for installation will be stabilized to prevent erosion with appropriate erosion control measures during construction. After the outlet structure is completed, these areas will be vegetated as a permanent erosion control measure. The total impact will be approximately 25 feet for the construction of the pond outlet/bank modification.

6.6 Wetland Delineation:

This section of the unnamed tributary is not classified as a wetland per the U.S. Fish & Wildlife wetlands inventory map and by the Hydrologic Determination Report (DWR ID No. 8778).

6.7 Hydrologic Determination:

This section of the Unnamed Tributary to West Fork Stones River is not regulated in the Federal Emergency Management Agency (FEMA) as listed in the Flood Insurance Rate Map number 47149C0377H and 47149C0381H, dated January 5th, 2007. The area of the outlet structure is indicated as Zone "AE" – inside the 100-year flood zone. These sections of the stream do have floodway designation. The stream is in the Stones River Watershed (Hydrologic Unit Code 05130203).

Section 7: Project Rationale

7. Describe the need for the proposed activity and overall project:

The purpose of the bank modification is to allow the detention pond/site to drain. This project is considered to be a minor impact as the construction of the outlet structure/bank modification will not contribute to any permanent loss of resource values.

Section 8: Technical Information

8.1 Detail plans, blueprints, or legible sketches of present site conditions and the proposed activity.

See attached 8¹/₂" x 11" plans.

8.2 For the proposed activity and mitigation provide a discussion regarding the sequencing of events.

Best Management Practices (BMP's) including construction exit, erosion eels and silt fence are to be erected on-site prior to clearing activities. Some areas may require light clearing before BMP's can be installed.

No excavating equipment should be operated in flowing waters. This work should be performed in the "dry" or during low flows. A Temporary Stream Crossing is not expected.

Once all BMP's are installed and the site is cleared, the channel banks will be excavated to the width required to allow the pond outlet pipes to drain. The construction method will be dependent on the stream conditions at the time of construction. One of two methods will be used to cross the stream. Method #1 will be used for crossing the stream with flowing water. Method #2 will be used if the stream has little to no flow.

Bank Modification/Pond Outlet

Method #1:

A rock check dam will be used to protect the bank from erosion and prevent sediment from the disturbance from entering the stream.

The side slopes for the embankments should be seeded and mulched immediately following final grading of the approaches.

Method #2: Silt fence may be used to trap sediment if there is little to no flow in the stream.

The side slopes for the embankments should be seeded and mulched immediately following final grading of the approaches.

8.3 Depiction and Narrative on the location and type of erosion prevention and sediment control measures for the proposed alterations.

See the construction plans for required BMP's and their locations

Construction Exit – to be located off the existing Compass Way.

Silt fence – to be located along both banks for the limits of disturbance. Erosion eels (Tubes and Wattles) may be a substitute item if frequent relocations are necessary.

Permanent Seeding and Mulch – to be located on any areas disturbed by construction that is not stabilized with other means. The type of seed and the application rate should follow TDOT requirements.



STATE OF TENNESSEE DEPARTMENT OF ENVIRONMENT AND CONSERVATION DIVISION OF WATER RESOURCES

Nashville Environmental Field Office 711 R.S. Gass Boulevard Nashville, TN Phone 615-687-7000 Statewide 1-888-891-8332 Fax

Fax 615-687-7078

May 15, 2017

Gilbert Barbar 1002 Walnut Grove Road Christiana, TN 37037

Re: Hydrologic Determination (DWR ID No. 8778) Clearview Estates West Fork Stones Watershed

Dear Mr. Barbar:

On March 23, 2017, the Division of Water Resources (division) received a jurisdictional waters determination of hydrologic features report submitted on your behalf by Tony Grow of Grow Environmental, LLC. Mr. Grow submitted this report as a Qualified Hydrologic Professional (TN QHP No. 1128-TN15) .This report concerns water features located on the Clearview Estates property Lat. 35.722547 Long. -86.431101, at 1004 Walnut Grove Road, Christiana, TN, Tennessee. Please note that all geographic coordinates provided in this letter have a limited precision and should be considered approximate.

Based on the information and documentation submitted and the division's rules and guidance regarding hydrologic determinations, the division partially accepts the jurisdictional determination of the water features as portrayed in the submitted report and attached map (Map Attachment). Only the water features shown below and on the attached map were assessed during this determination.

Classification	From Lat	From Long	To Lat	To Long	Description
Wet Weather Conveyance	35.722058	-86.431454	35.724575	-86.429554	WWC-2
Wet Weather Conveyance	35.718396	-86.431155	35.721339	-86.431713	WWC-1
Stream	35.724265	-86.441138	35.72504	-86.44075	STR-4
Stream	35.722358	-86.431454	35.72519	-86.440468	STR-3
Jurisdictional pond	35.721654	-86.431556			Pond-1

Mr. Barbar May 15, 2017 Page 2 of 3

Alterations to wet weather conveyances typically may be performed without application or notification to the division, as long as they conform to the provisions of the *General Aquatic Resource Alteration Permit* for the Alteration of Wet Weather Conveyances.

Any alterations to streams or wetlands may only be performed under the coverage of, and conformance to, a valid *Aquatic Resource Alteration Permit (ARAP)* issued by the division. ARAP applications and provisions are available on-line at <u>http://www.tn.gov/environment/article/permit-water-aquatic-resource-alteration-permit</u>.

If the disturbed area of this project is one acre or greater, coverage under the *General NPDES Permit for Stormwater Discharges from Construction Activities (CGP)* will be required from this division before any clearing or earth moving activities are started. Information on the construction stormwater permit is available online at <u>http://www.tn.gov/environment/article/permit-water-npdes-stormwater-construction-permit</u>. Please be advised that effective erosion prevention and sediment control measures must be used during the construction phase of this project to prevent the discharge of pollutants to waters of the State.

Hydrologic determinations are advised and governed by Tennessee Department of Environment and Conservation (TDEC) rules and regulations, and therefore only apply to the State's permitting process. Because these and other various water features on-site may potentially also be considered jurisdictional Waters of the United States, any alterations to them should only be performed after consultation with the U.S. Army Corps of Engineers.

I appreciate the opportunity to assess the site prior to site plan finalization and initiation of construction activities. Because natural variation and human activities can alter hydrologic conditions, the division reserves the right to reassess the status of the water features in the future.

Thank you for your interest in water quality in Tennessee. If you have any questions or need additional information, please contact me at 615-687-7101 or by email at <u>Brandon.Yates@tn.gov</u>.

Sincerely,

Branden Vates

Brandon Yates Division of Water Resources

cc: Tony Grow U.S. Army Corp of Engineers, <u>NashvilleRegulatory@usace.army.mil</u>

Enclosure: Map Attachment

Mr. Barbar May 15, 2017 Page 3 of 3 – Map Attachment



Mr. Barbar May 15, 2017 Page 4 of 3 – Map Attachment

Anthony A. Grow, PG TNQHP 1128-TN15 1406 Wilson Avenue Tullahoma, TN 37388 macduff1@charter.net

(931) 273-4681 cell

February 10, 2017

Division of Water Resources Tennessee Department of Environment and Conservation 711 R.S. Gass Boulevard Nashville, TN 37216

RE: Hydrological Determination (HD) Report – Clearview Estates, 1004 Walnut Grove Road, Christiana, Rutherford County

The attached hydrologic determination (HD) report (Attachment 1) is submitted **to qualify for treatment provided for in §69-3-108(r).** A determination was conducted of four channels draining to West Fork Stones River northwest of the site to identify water resource impacts of developing the site. There is a small non-jurisdictional pond in the center of the site. The attached HD report identified the following water resource features:

1 (Wet Weather Conveyance) – Start: 35.718396, -86.431155; End: 35.721339, -86.431713 2 (Wet Weather Conveyance) – Start: 35.722058, -86.431454; End: 35.724575, -86.429554 3 (Stream) – Start: 35.722358, -86.438791; End: 35.725190, -86.440468 4 (Stream) – Start: 35.724265, -86.441138; End: 35.725040, -86.440750 Pond (0.40 acre) - 35.721654, -86.431556

The residential development proposes (see attached Site Plan) re-routing one wet weather conveyance and filling the pond.

The property owner is Clearview Acres, LP, property owner. A signed property access permission letter is attached to this report.

Please contact me via my cell phone or by email if you have any questions. All submitted information is true, accurate and complete.

Sincerely,

Anthony A. Grow, PG TNQHP 1128-TN15

Attachments

- 1. Hydrologic Determination Report Clearview Estates Property
- 2. Clearview Estates Site Plan
- 3. Property Access Permission Letter

Attachment 1 - Hydrologic Determination Report - Clearview Estates Property

Hydrologic Determination Report

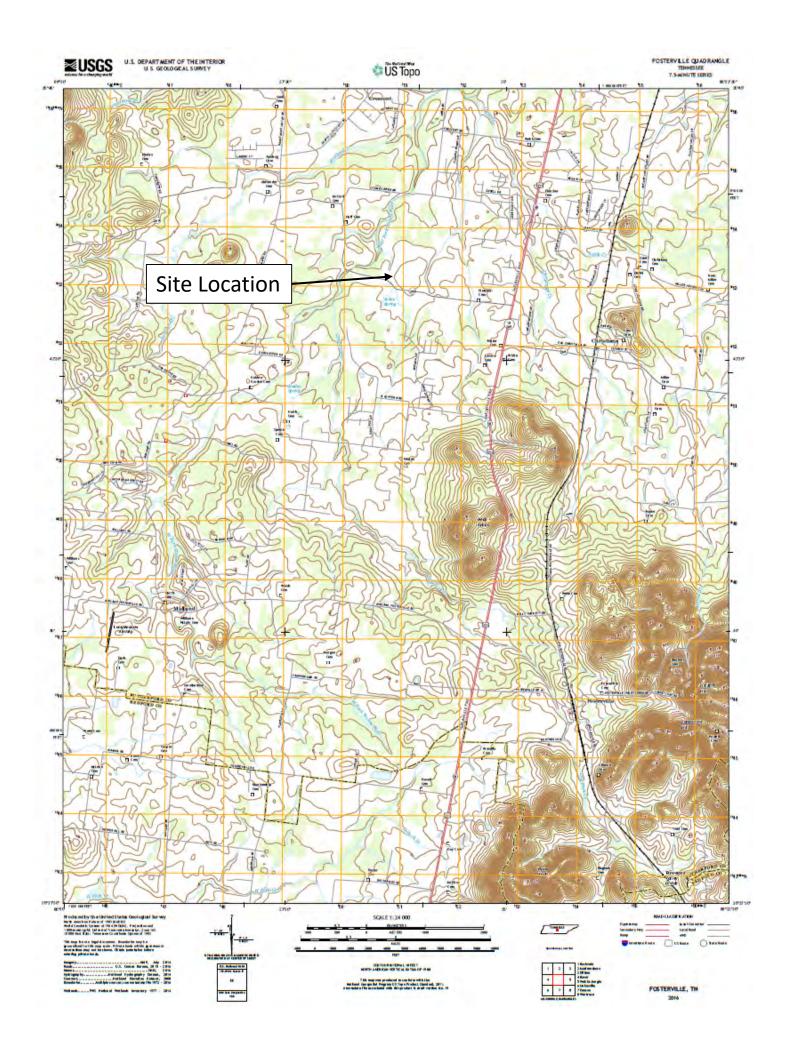
Clearview Estates Property – 1004 Walnut Grove Christiana, Tennessee

> Prepared by Anthony A. Grow, PG TNQHP 1128-TN15

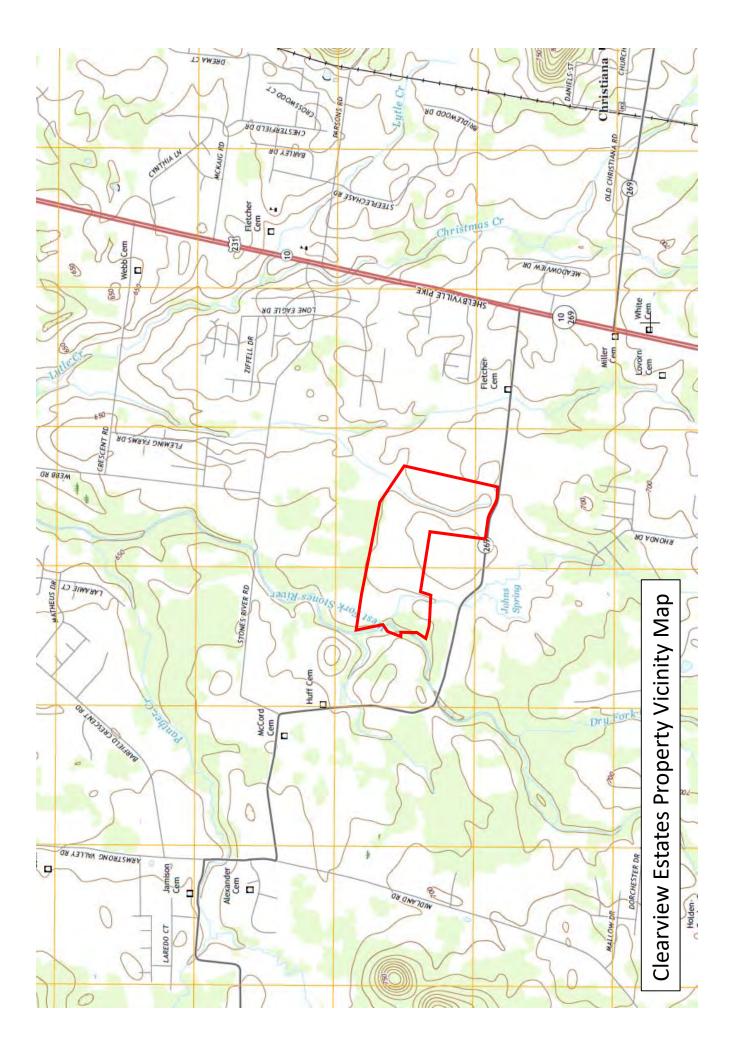
February 10, 2017

Contents

Topographic Map Showing Site Location Vicinity Map Hydrologic Determined Features Map HD Field Data Sheets and Photographs USDA Soils Map Data Calculation of Weather Conditions TOPOGRAPHIC MAP SHOWING SITE LOCATION

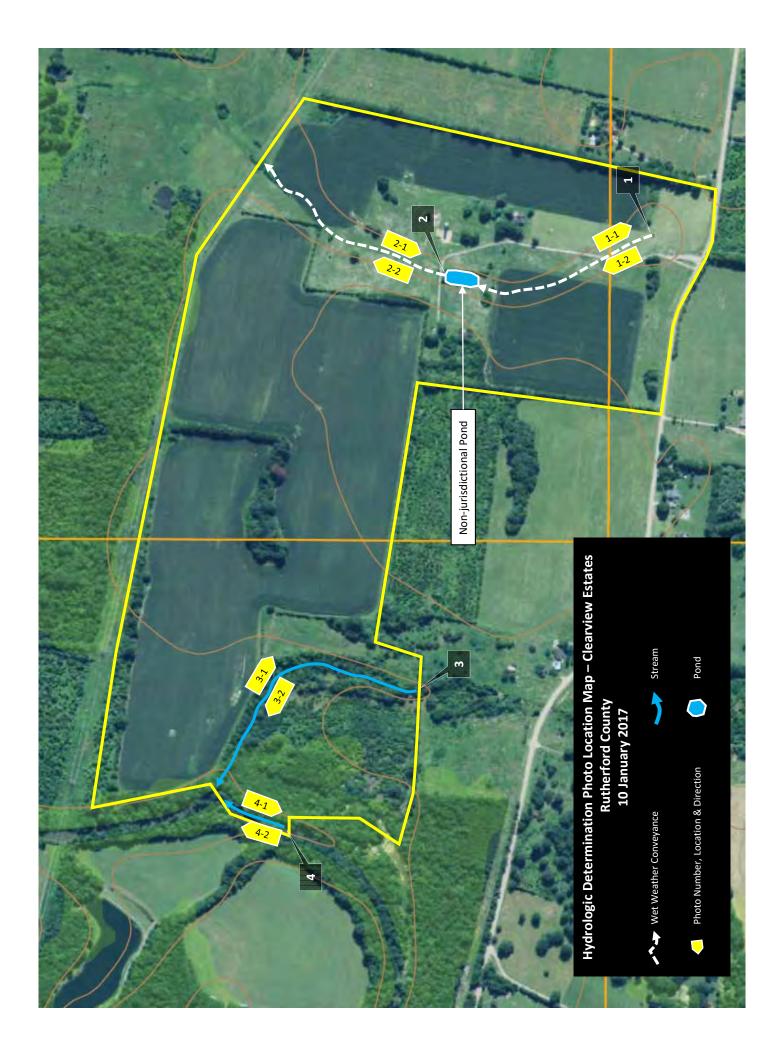


VICINITY MAP



HYDROLOGIC DETERMINATION FEATURES MAP





HYDROLOGIC DETERMINATION FIELD DATA SHEETS & PHOTOGRAPHS

Hydrologic Determination Field Data Sheet

1-WWC

Tennessee Division of Water Pollution Co	ontrol, Version 1.4
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County: Rutherford	Named Waterbody:	Jnnamed Tributary	Date/Time: 1/10/17			
Assessors/Affiliation: Anthony A. Grow, TNQHP # 1128-TN15			Project ID :			
Site Name/Description: Clearview E						
Site Location: 1004 Walnut Grove Road, Christiana, TN						
USGS quad: Fosterville	HUC (12 digit):		Lat/Long:			
Previous Rainfall (7-days) : 0.64 in	ich		Start: 35.718396, -86.431155 End: 35.721339, -86.431713			
Precipitation this Season vs. Normal Source of recent & seasonal precip data :	: very wet we CoCoRah Station	0	dry drought unknown			
Watershed Size : 11 acres		Photos: <y>or N (c</y>	ircle) Number: 1-1, 1-2			
Soil Type(s) / Geology : Egam silt	loam		Source: USDA			
Surrounding Land Use : Agricultural						
Degree of historical alteration to nat Severe	ural channel morpholo Moderate	ogy & hydrology (cir <slight></slight>	cle one & describe fully in Notes) : Absent			

Primary Field Indicators Observed

Primary Indicators	NO	YES
1. Hydrologic feature exists solely due to a process discharge	Х	WWC
2. Defined bed and bank absent, dominated by upland vegetation / grass		<wwc></wwc>
 Watercourse dry anytime during February through April 15th, under normal precipitation / groundwater conditions 		WWC
4. Daily flow and precipitation records showing feature only flows in direct response to rainfall		WWC
 Presence of multiple populations of obligate lotic organisms with ≥ 2 month aquatic phase 		Stream
6. Presence of fish (except Gambusia)		Stream
7. Presence of naturally occurring ground water table connection		Stream
8. Flowing water in channel and 7 days since last precipitation in local watershed		Stream
9. Evidence watercourse has been used as a supply of drinking water		Stream

NOTE : If any Primary Indicators 1-9 = "Yes", then STOP; absent directly contradictory evidence, determination is complete.

In the absence of a primary indicator, or other definitive evidence, complete the secondary indicator table on page 2 of this sheet, and provide score below.

Guidance for the interpretation and scoring of both the primary & secondary indicators is provided in TDEC-WPC Guidance For Making Hydrologic Determinations, Version 1.4

Overall Hydrologic Determination = Wet Weather Conveyance (1-WWC)

Secondary Indicator Score (if applicable) =

Justification / Notes : Numerous sinkholes along channel.



Photo 1-2 Wet Weather Conveyance (1) Date: 1-10-17 Lat: 35.719276 Lon: -86.430973 View looking downstream



Hydrologic Determination Field Data Sheet

2-WWC

Tennessee Division of	Water Pollution	Control, \	/ersion 1.4
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County: Rutherford	Date/Time: 1/10/17								
Assessors/Affiliation: Anthony A. G	Project ID :								
Site Name/Description: Clearview E									
Site Location: 1004 Walnut Grove									
USGS quad: Fosterville		Lat/Long:							
Previous Rainfall (7-days): 0.64 in		Start: 35.722058, -86.431454 End: 35.724575, -86.429554							
Precipitation this Season vs. Normal Source of recent & seasonal precip data :	dry drought unknown								
Watershed Size : 5 acres	ircle) Number: 2-1, 2-2								
Soil Type(s) / Geology : Egam silt	Source: USDA								
Surrounding Land Use : Agricultural									
Degree of historical alteration to nat Severe	cle one & describe fully in Notes) : Absent								

Primary Field Indicators Observed

Primary Indicators	NO	YES
1. Hydrologic feature exists solely due to a process discharge	Х	WWC
2. Defined bed and bank absent, dominated by upland vegetation / grass		<wwc></wwc>
 Watercourse dry anytime during February through April 15th, under normal precipitation / groundwater conditions 		WWC
4. Daily flow and precipitation records showing feature only flows in direct response to rainfall		WWC
 Presence of multiple populations of obligate lotic organisms with ≥ 2 month aquatic phase 		Stream
6. Presence of fish (except Gambusia)		Stream
7. Presence of naturally occurring ground water table connection		Stream
8. Flowing water in channel and 7 days since last precipitation in local watershed		Stream
9. Evidence watercourse has been used as a supply of drinking water		Stream

NOTE : If any Primary Indicators 1-9 = "Yes", then STOP; absent directly contradictory evidence, determination is complete.

In the absence of a primary indicator, or other definitive evidence, complete the secondary indicator table on page 2 of this sheet, and provide score below.

Guidance for the interpretation and scoring of both the primary & secondary indicators is provided in TDEC-WPC Guidance For Making Hydrologic Determinations, Version 1.4

Overall Hydrologic Determination = Wet Weather Conveyance (2-WWC)

Secondary Indicator Score (if applicable) =

Justification / Notes: Two sinkholes along length of channel.



Photo 2-2 Wet Weather Conveyance (2) Date: 1-10-17 Lat: 35.722547 Lon: -86.431101 View looking downstream



Photo 2-1 Wet Weather Conveyance (2) Date: 1-10-17 Lat: 35.722547 Lon: -86.431101 View looking upstream

Hydrologic Determination Field Data Sheet

Tennessee Division of Water Pollution Control, Version 1.4

County: Rutherford	Date/Time: 1/10/17								
Assessors/Affiliation: Anthony A. G	Project ID :								
Site Name/Description: Clearview E									
Site Location: 1004 Walnut Grove									
USGS quad: Fosterville		Lat/Long:							
Previous Rainfall (7-days) : 0.64 in		Start: 35.722358, -86.438791 End: 35.725190, -86.440468							
Precipitation this Season vs. Normal Source of recent & seasonal precip data :	dry drought unknown								
Watershed Size : 17 acres	Photos: <y>or N (c</y>	circle) Number: 3-1, 3-2							
Soil Type(s) / Geology : Egam silt	Source: USDA								
Surrounding Land Use : Agricultural									
Degree of historical alteration to nat Severe	cle one & describe fully in Notes) : Absent								

Primary Field Indicators Observed

Primary Indicators	NO	YES
1. Hydrologic feature exists solely due to a process discharge	Х	WWC
2. Defined bed and bank absent, dominated by upland vegetation / grass	Х	WWC
3. Watercourse dry anytime during February through April 15th, under normal precipitation / groundwater conditions	N/A	WWC
4. Daily flow and precipitation records showing feature only flows in direct response to rainfall	N/A	WWC
 Presence of multiple populations of obligate lotic organisms with ≥ 2 month aquatic phase 	Х	Stream
6. Presence of fish (except Gambusia)	Х	Stream
7. Presence of naturally occurring ground water table connection		<stream></stream>
8. Flowing water in channel and 7 days since last precipitation in local watershed		Stream
9. Evidence watercourse has been used as a supply of drinking water		Stream

NOTE : If any Primary Indicators 1-9 = "Yes", then STOP; absent directly contradictory evidence, determination is complete.

In the absence of a primary indicator, or other definitive evidence, complete the secondary indicator table on page 2 of this sheet, and provide score below.

Guidance for the interpretation and scoring of both the primary & secondary indicators is provided in TDEC-WPC Guidance For Making Hydrologic Determinations, Version 1.4

Overall Hydrologic Determination = Stream (3-Stream)

Secondary Indicator Score (if applicable) =

Justification / Notes :

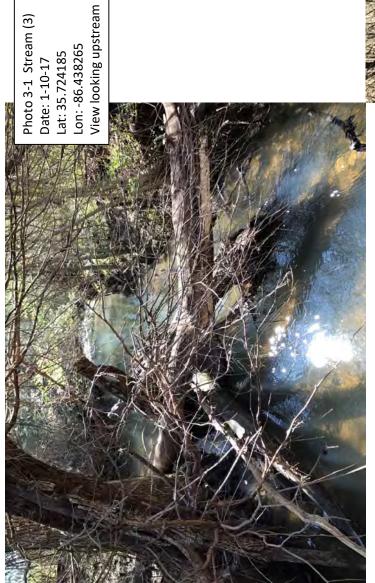


Photo 3-2 Stream (3) Date: 1-10-17 Lat: 35.724185 Lon: -86.438265 View looking downstream



Hydrologic Determination Field Data Sheet

Tennessee Division of Water Pollution Control, Version 1.4

County: Rutherford	Jnnamed Tributary	Date/Time: 1/10/17							
Assessors/Affiliation: Anthony A. G	Project ID :								
Site Name/Description: Clearview E									
Site Location: 1004 Walnut Grove									
USGS quad: Fosterville		Lat/Long:							
Previous Rainfall (7-days) : 0.64 in	ich		Start: 35.724265, -86.441138 End: 35.725040, -86.440750						
Precipitation this Season vs. Normal Source of recent & seasonal precip data :	et <average> TN-RD-8</average>	dry drought unknown							
Watershed Size : 24 acres	Photos: <y>or N (c</y>	ircle) Number: 4-1, 4-2							
Soil Type(s) / Geology : Arrington	Source: USDA								
Surrounding Land Use : Agricultural									
Degree of historical alteration to natural channel morphology & hydrology (circle one & describe fully in Notes) Severe Moderate <slight> Absent</slight>									

Primary Field Indicators Observed

Primary Indicators	NO	YES
1. Hydrologic feature exists solely due to a process discharge	Х	WWC
2. Defined bed and bank absent, dominated by upland vegetation / grass	Х	WWC
 Watercourse dry anytime during February through April 15th, under normal precipitation / groundwater conditions 	N/A	WWC
4. Daily flow and precipitation records showing feature only flows in direct response to rainfall	N/A	WWC
 Presence of multiple populations of obligate lotic organisms with ≥ 2 month aquatic phase 	Х	Stream
6. Presence of fish (except Gambusia)	Х	Stream
7. Presence of naturally occurring ground water table connection		<stream></stream>
8. Flowing water in channel and 7 days since last precipitation in local watershed		Stream
9. Evidence watercourse has been used as a supply of drinking water		Stream

NOTE : If any Primary Indicators 1-9 = "Yes", then STOP; absent directly contradictory evidence, determination is complete.

In the absence of a primary indicator, or other definitive evidence, complete the secondary indicator table on page 2 of this sheet, and provide score below.

Guidance for the interpretation and scoring of both the primary & secondary indicators is provided in TDEC-WPC Guidance For Making Hydrologic Determinations, Version 1.4

Overall Hydrologic Determination = Stream (4-Stream)

Secondary Indicator Score (if applicable) =

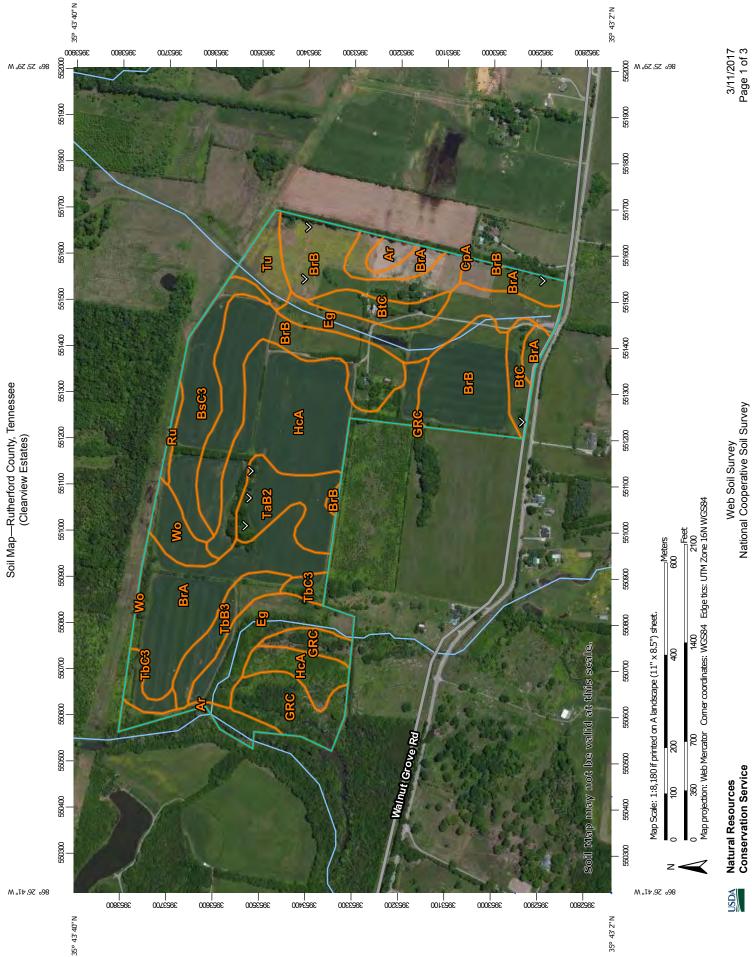
Justification / Notes :



Photo 4-2 Stream (4) Date: 1-10-17 Lat: 35.725042 Lon: -86.440665 View looking downstream



USDA SOILS MAP DATA



Soil Map—Rutherford County, Tennessee (Clearview Estates) ſ

MAP INFORMATION	The soil surveys that comprise your AOI were mapped at 1:15,800.	Warning: Soil Map may not be valid at this scale.	Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of manufug and accuracy of soil	line placement. The maps do not show the small areas of	contrasting soils that could have been shown at a more detailed scale.		Please rely on the bar scale on each map sheet for map measurements.	Source of Map: Natural Resources Conservation Service	Web Soil Survey URL: Coordinate Svstem: Web Mercator (EPSG:3857)	Maps from the Web Soil Survey are based on the Web Mercator	projection, which preserves direction and shape but distorts	ustance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more	accurate calculations of distance or area are required.	This product is generated from the USDA-NRCS certified data as of the version data(s) listed below	Soil Survey Area: Butherford County Tennessee		Soil map units are labeled (as space allows) for map scales	1:50,000 or larger.	Date(s) aerial images were photographed: Mar 17, 2011—May 5, 2011	The orthonhoto or other base man on which the soil lines were	compiled and digitized probably differs from the background	imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.	- -		
EGEND	Spoil Area Stony Spot	_	Vet Spot	△ Other	Special Line Features	Water Features	Streams and Canals	Transportation Rails		US Routes	Major Roads	Local Roads	Background	Aerial Photography											
MAP LE	Area of Interest (AOI) Area of Interest (AOI)		soil Map Unit Polygons Soil Map Unit Lines	Soil Map Unit Points	Special Point Features	Blowout	Borrow Pit	Clay Spot	Closed Depression	Gravel Pit	Gravelly Spot	Landfill	Lava Flow	Marsh or swamp	Mine or Quarry	Miscellaneous Water	Perennial Water	Rock Outcrop	Saline Spot	Sandy Spot	Severely Eroded Spot	Sinkhole	Slide or Slip	Sodic Spot	
	Area of Int	Soils] }	2	Special	(0)		×	\$	*	0 0 0	٩	~	- - - -	¢	0	0	>	+	0 0 0 0	Û	\$	2	۶ ۵	

Map Unit Legend

Rutherford County, Tennessee (TN149)									
Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI						
Ar	Arrington silt loam, 0 to 2 percent slopes, occasionally flooded	3.9	2.7%						
BrA	Bradyville silt loam, 0 to 2 percent slopes	22.0	15.3%						
BrB	Bradyville silt loam, 2 to 5 percent slopes	33.7	23.5%						
BsC3	Bradyville silty clay loam, 5 to 12 percent slopes, severely eroded	9.0	6.3%						
BtC	Bradyville-Rock outcrop complex, 2 to 12 percent slopes	5.9	4.1%						
СрА	Capshaw silt loam, 0 to 2 percent slopes	0.0	0.0%						
Eg	Egam silt loam	16.7	11.6%						
GRC	Gladeville-Rock outcrop complex, 2 to 15 percent slopes, extremely stony	8.5	5.9%						
HcA	Harpeth silt loam, 0 to 2 percent slopes	22.7	15.8%						
Ru	Roellen silty clay	0.7	0.5%						
TaB2	Talbott silt loam, 2 to 5 percent slopes, eroded	6.9	4.8%						
TbB3	Talbott silty clay loam, 2 to 5 percent slopes, severely eroded	4.3	3.0%						
TbC3	Talbott silty clay loam, 5 to 12 percent slopes, severely eroded	2.9	2.0%						
Tu	Tupelo silt loam	3.2	2.2%						
Wo	Woodmont silt loam	3.3	2.3%						
Totals for Area of Interest		143.8	100.0%						

CALCULATION OF WEATHER CONDITIONS

		Lon	g-term raii	nfall					
			records					-	
		Minus		Plus					Product
		One	Normal	One	Actual	Condition	Condition	Month	of
	Month	Std.	(Mean	Std.	Actual Rainfall	(dry, wet,	value	weight	previous
		Dev.	inches)	Dev.	Kalfildii	normal)	value	value	two
		(DRY)		(WET)					columns
1 st prior	D 0016	4.05	5.00	5 50	- 10		2		0
month*	Dec 2016	4.95	5.23	5.50	7.19	WET	3	x 3	9
2 nd									
prior	Nov 2016	4.58	4.80	5.01	1.97	DRY	1	x 2	2
month*									
3 rd prior	O at 2016	3.28	3.45	3.62	0.47	DDV	1	x 1	1
month*	Oct 2016	3.28	3.43	3.62	0.47	DRY	1	^ -	1
								Sum =	12

Table 1. Calculation of Weather Conditions - Clearview Estates

Note:

Note:	
If sum is:	
6-9	then prior period has been drier than normal
10-14	then prior period has been normal
15-18	Then prior period has been wetter than normal

Condition value:	
Dry =	1
Normal =	2
Wet =	3

Conclusions:	Normal weather conditions.

COCORAHS COM	MUNITY COLLABORATIVE RAIN, HAIL & SM "Because every drop counts" Home Countries States View Data Maps My Data Entry L View Data : Station Report Summary US Units	ogin
View Data	Station Report Summary	
view bata	Station 1 : TN-RD-8 Example: CO-LR-273	
Daily Precip Reports	Station 2 :	
Daily Comments Reports Significant Weather	Station 3 :	
Reports		
<u>Multiple Day Reports</u> <u>Condition Monitoring</u> <u>Reports</u>	Start Date: 1/3/2017 End Date: 1/9/2017	
	Get Sum	mary
Days with Hail		
 <u>Search Hail Reports</u> Station Hail Reports 	04-41	
Station Precip Summary	Stations:	
	TN-RD-8 Murfreesboro 3.2 WSW	
 <u>Water Year Summary</u> Station Precip Summary 	Lat: 35.831422	
 Station Snow Summary 	Lon: -86.44507	
 <u>Rainy Days Report</u> Total Precip Summary 		
List Stations	* indicates Multi-Day Accumulation Report	
FROST Data	Station	TN-RD-8
	Date	Precip in.
• Frost	01/03/2017	0.51
Optics	01/04/2017	0.00
 <u>Snowflake</u> <u>Thunder</u> 	01/05/2017	0.00
	01/06/2017	Т
	01/07/2017	0.13
Main Menu	01/08/2017	0.00
	01/09/2017	0.00
• <u>Home</u> • About Us	Totals :	0.64 in.

- <u>Home</u>
 <u>About Us</u>
 <u>Join CoCoRaHS</u>
 <u>Contact Us</u>
 <u>Donate</u>

Resources

- FAQ / Help
 Education
 Training Slide-Shows
 Videos
 Condition Monitoring
 Evapotranspiration
- Volunteer Coordinators
 <u>Hail Pad</u>
 <u>Distribution/Drop-off</u>
 <u>Help Needed</u>
 <u>Printable Forms</u>

- <u>The Catch</u>
 Message of the Day
 Publications
 CoCoRaHS Blog
 Web Groups
 State Newsletters
 Master Gardener Guide
 State Climate Series
 March Madness
 WxTalk Webinars

- <u>Sponsors</u>
 <u>Links</u>
 <u>CoCoRaHS Store</u>

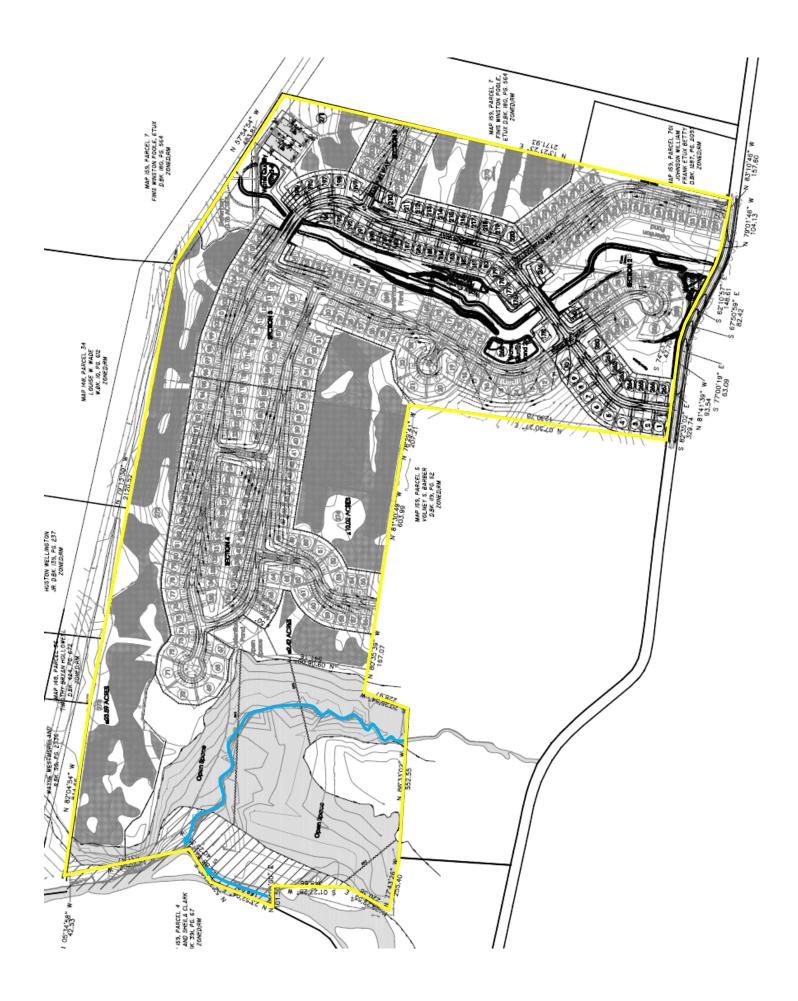
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	Murfreesboro 3.2 WSW	
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 Station Snow Summary 	Lon: -86.44507	
 <u>Rainy Days Report</u> Total Precip Summary 	* indicatos Multi Dov Accumulation Poport	
List Stations	* indicates Multi-Day Accumulation Report	
FROST Data	Station	TN-RD-8
TROST Data	Date	Precip in.
Frost	12/01/2016	0.01
Optics	12/02/2016	0.00
 <u>Snowflake</u> <u>Thunder</u> 	12/03/2016	0.00
manaci	12/04/2016	0.46
	12/05/2016	0.20
Main Menu	12/06/2016	0.93
	12/07/2016	Т
• <u>Home</u>	12/08/2016	Т
 <u>About Us</u> Join CoCoRaHS 	12/09/2016	0.00
Contact Us	12/10/2016	0.00
<u>Donate</u>	12/11/2016	0.00
Resources	12/12/2016	1.16
	12/13/2016	0.04
FAQ / Help	12/14/2016	0.00
 <u>Education</u> <u>Training Slide-Shows</u> 	12/15/2016	0.00
<u>Videos</u> <u>Condition Monitoring</u>	12/16/2016	0.00
Evapotranspiration	12/17/2016	0.07
	12/18/2016	1.92
<u>Volunteer Coordinators</u>	12/19/2016	Т
 <u>Hail Pad</u> <u>Distribution/Drop-off</u> 	12/20/2016	0.00
Help Needed	12/21/2016	0.00
Printable Forms	12/22/2016	0.00
	12/23/2016	0.00
 <u>The Catch</u> Message of the Day 	12/24/2016	0.87
Publications	12/25/2016	0.25
 <u>CoCoRaHS Blog</u> Web Groups 	12/26/2016	0.00
State Newsletters	12/27/2016	0.92
Master Gardener Guide State Climate Series	12/28/2016	T
March Madness	12/29/2016	0.34
<u>WxTalk Webinars</u>	12/30/2016	0.00
- Changer	12/31/2016	0.02
<u>Sponsors</u> <u>Links</u>	Totals :	7.19 in.
CoCoRaHS Store	10(013).	1.17111.

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<u>otation roop outmany</u>	TN-RD-8	
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 <u>Station Precip Summary</u> Station Snow Summary 	Lat: 35.831422	
Rainy Days Report	Lon: -86.44507	
<u>Total Precip Summary</u> <u>List Stations</u>	* indicates Multi-Day Accumulation Report Station	TN-RD-8
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	11/01/2016	0.00
• <u>Frost</u>	11/02/2016	0.00
<u>Optics</u> <u>Snowflake</u>	11/03/2016	0.00
<u>Thunder</u>	11/04/2016	0.00
	11/05/2016	0.00
Main Menu	11/06/2016	0.00
	11/07/2016	0.00
• <u>Home</u>	11/08/2016	0.00
 <u>About Us</u> Join CoCoRaHS 	11/09/2016	0.00
Contact Us	11/10/2016	0.00
<u>Donate</u>	11/11/2016	0.00
Resources	11/12/2016	0.00
	11/13/2016	0.00
 <u>FAQ / Help</u> Education 	11/14/2016	0.00
 Training Slide-Shows 	11/15/2016	0.00
<u>Videos</u> <u>Condition Monitoring</u>	11/16/2016	0.00
Evapotranspiration	11/17/2016	0.00
	11/18/2016	0.00
 <u>Volunteer Coordinators</u> Hail Pad 	11/19/2016	0.14
<u>Hall Pad</u> <u>Distribution/Drop-off</u>	11/20/2016	0.00
Help Needed Printable Forms	11/21/2016	0.00
• Filitable Follins	11/22/2016	0.00
• The Catch	11/23/2016	0.00
 Message of the Day 	11/24/2016	Т
<u>Publications</u> <u>CoCoRaHS Blog</u>	11/25/2016	0.00
Web Groups	11/26/2016	0.00
<u>State Newsletters</u> <u>Master Gardener Guide</u>	11/27/2016	0.00
State Climate Series March Madness	11/28/2016	0.00
<u>WxTalk Webinars</u>	11/29/2016	0.93
	11/30/2016	0.90
 <u>Sponsors</u> <u>Links</u> 	Totals :	1.97 in.

<u>CoCoRaHS Store</u>

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Attachment 2. Clearview Estates Site Development Plan



Attachment 3. Property Access Permission Letter

2/9/17 Date: ____

Division of Water Resources Tennessee Department of Environment and Conservation (TDEC) 711 R.S. Gass Boulevard Nashville, TN 37216

RE: Permission to Access Property for Hydrological Determination for Clearview Acres, 1004 Walnut Grove, Christiana, (Rutherford County)

TDEC has my permission to access the property located at 1004 Walnut Grovet as referenced in the Hydrological Determination Report conducted by Mr. Anthony Grow.

Please contact me via my cell phone or email if you have any questions.

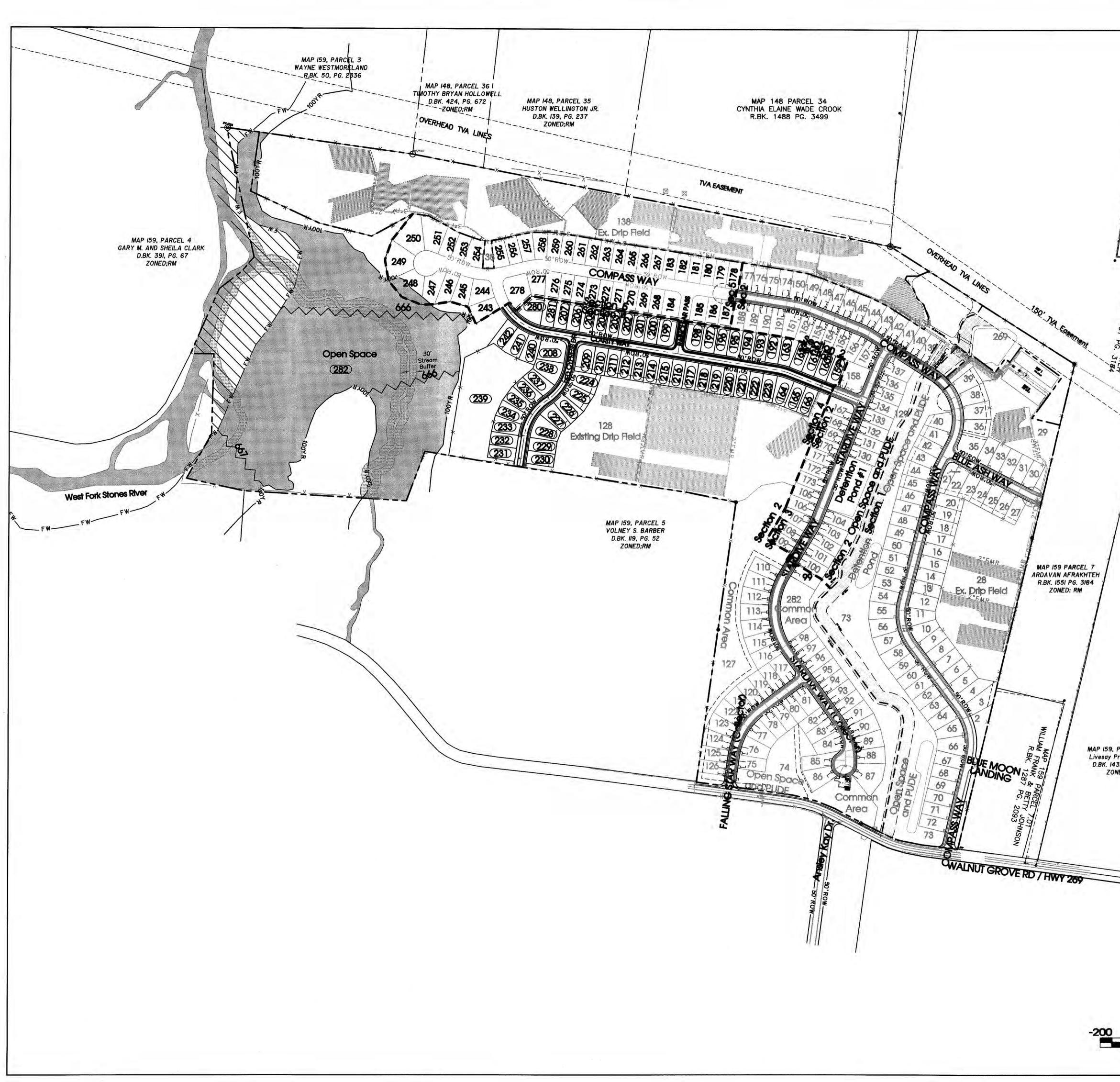
Sincerely,

Company Name (if applicable): Clearview Acres, LP

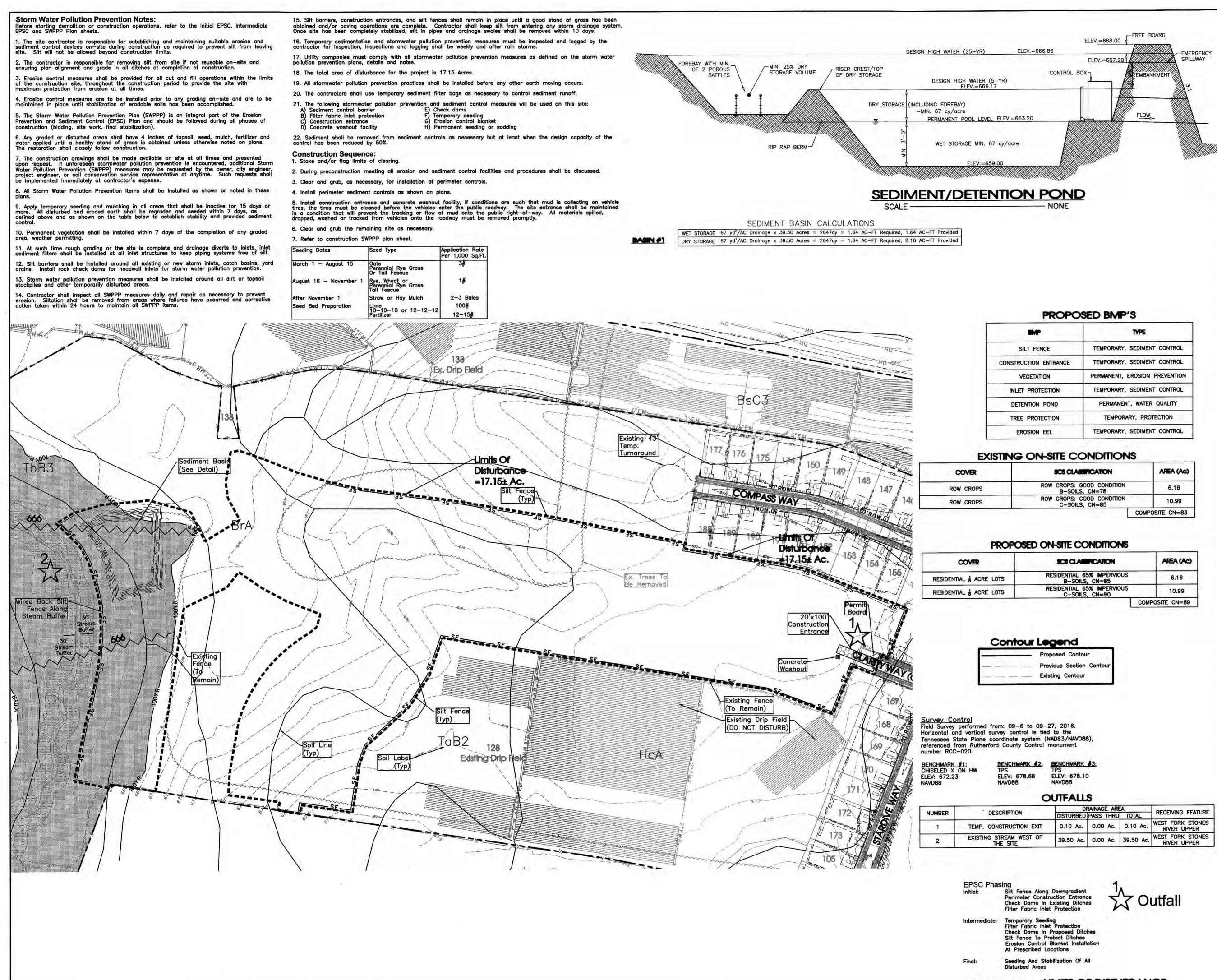
Name:	Gilbert Barbar
Signature:	Arr
_	1002 Walnut Grove Road, Christiana, TN
Phone:	(615) 893-3552
Email:	

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Anthony A. Grow, PG, TNQHP



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SCS CLASSIFICATION	AREA (Ac)
OW CROPS: GOOD CONDITION B-SOILS, CN=78	6.16
OW CROPS: GOOD CONDITION C-SOILS, CN=85	10.99
	COMPOSITE CN=83

SCS CLASSIFICATION	AREA (Ac)
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Storm Water Pollution Prevention Notes: Before starting demolition or construction operations, refer to the Initial EPSC, Intermediate EPSC and SWPPP Plan sheets.

The site contractor is responsible for establishing and maintaining suitable erosion and sediment control devices on—site during construction as required to prevent silt from leaving site. Silt will not be allowed beyond construction limits.

2. The contractor is responsible for removing silt from site if not reusable on—site and ensuring plan alignment and grade in all ditches at completion of construction.

3. Erosion control measures shall be provided for all cut and fill operations within the limits of the construction site, throughout the construction period to provide the site with maximum protection from erosion at all times.

4. Erosion control measures are to be installed prior to any grading on—site and are to be maintained in place until stabilization of erodable soils has been accomplished. The Storm Water Pollution Prevention Plan (SWPPP) is an integral part of the Erosion Prevention and Sediment Control (EPSC) Plan and should be followed during all phases of construction (bidding, site work, final stabilization).

6. Any graded or disturbed areas shall have 4 inches of topsoil, seed, mulch, fertilizer and water applied until a healthy stand of grass is obtained unless otherwise noted on plans. The restoration shall closely follow construction.

7. The construction drawings shall be made available on site at all times and presented upon request. If unforeseen stormwater pollution prevention is encountered, additional Storm Water Pollution Prevention (SWPPP) measures may be requested by the owner, city engineer, project engineer, or soil conservation service representative at anytime. Such requests shall be implemented immediately at contractor's expense.

8. All Storm Water Pollution Prevention items shall be installed as shown or noted in these plans.

9. Apply temporary seeding and mulching in all areas that shall be inactive for 15 days or more. All disturbed and eroded earth shall be regraded and seeded within 7 days, as defined above and as shown on the table below to establish stability and provided sediment control.

10. Permanent vegetation shall be installed within 7 days of the completion of any graded area, weather permitting. 11. At such time rough grading or the site is complete and drainage diverts to inlets, inlet sediment filters shall be installed at all inlet structures to keep piping systems free of silt.

12. Silt barriers shall be installed around all existing or new storm inlets, catch basins, yard drains. Install rock check dams for headwall inlets for storm water pollution prevention. 13. Storm water pollution prevention measures shall be installed around all dirt or topsoil stockpiles and other temporarily disturbed areas.

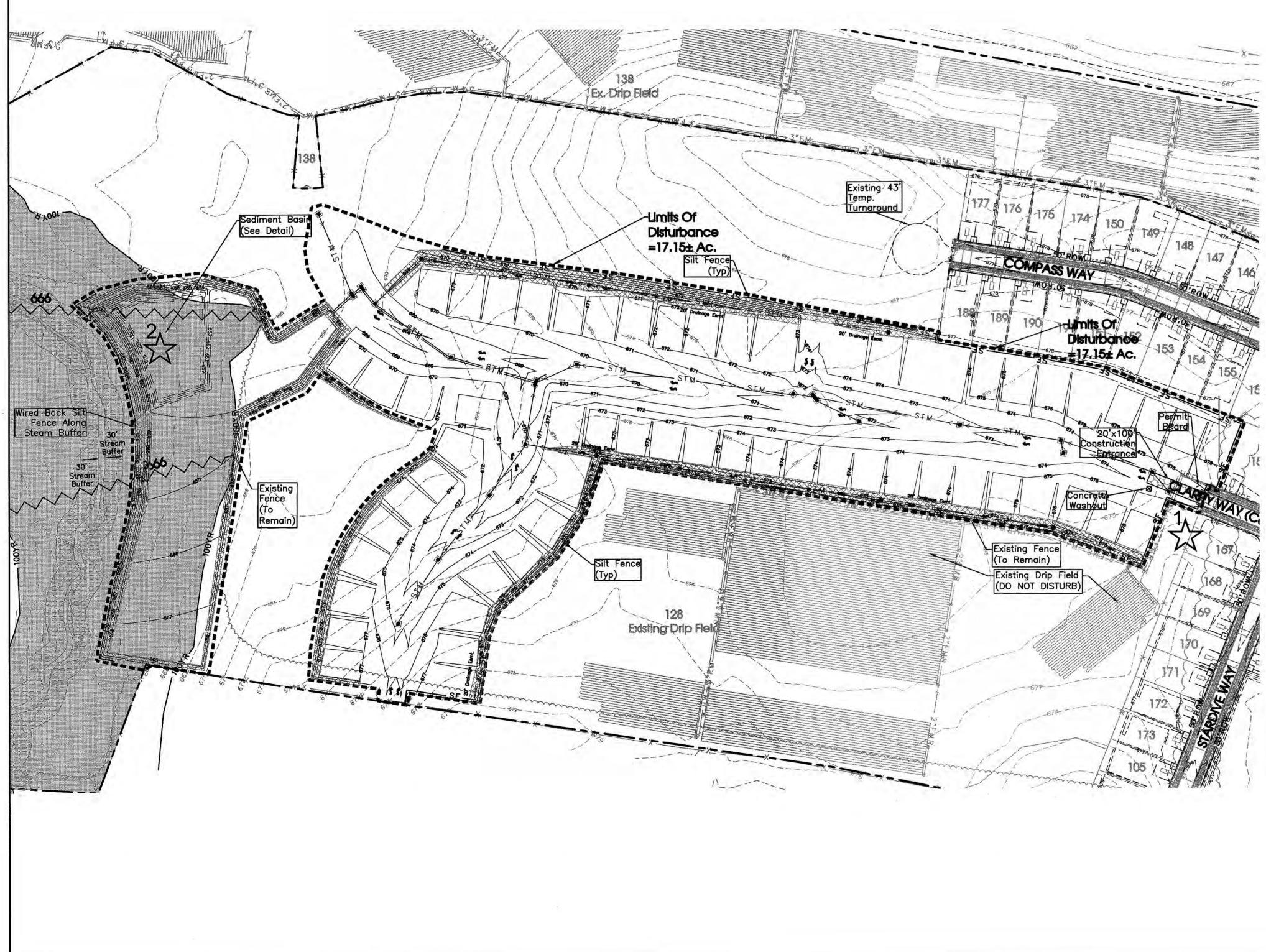
14. Contractor shall inspect all SWPPP measures daily and repair as necessary to prevent erosion. Siltation shall be removed from areas where failures have occurred and corrective action taken within 24 hours to maintain all SWPPP items.

15. Silt barriers, construction entrances, and silt fences shall remain in place until a good stand of grass has been obtained and/or paving operations are complete. Contractor shall keep silt from entering any storm drainage system. Once site has been completely stabilized, silt in pipes and drainage swales shall be removed within 10 days. 16. Temporary sedimentation and stormwater pollution prevention measures must be inspected and logged by the contractor for inspection, inspections and logging shall be weekly and after rain storms. 17. Utility companies must comply with all stormwater pollution prevention measures as defined on the storm water pollution prevention plans, details and notes. 18. The total area of disturbance for the project is 17.15 Acres.

19. All stormwater pollution prevention practices shall be installed before any other earth moving occurs.

20. The contractors shall use temporary sediment filter bags as necessary to control sediment runoff. 21. The following stormwater pollution prevention and sediment control measures will be used on this site: A) Sediment control barrier
 B) Filter fabric inlet protection

E) Check dams
F) Temporary seeding
G) Erosion control blanket
H) Permanent seeding or sodding Construction entrance D) Concrete washout facility 22. Sediment shall be removed from sediment controls as necessary but at least when the design capacity of the control has been reduced by 50%.



Construction Sequence: 1. Stake and/or flag limits of clearing.

2. During preconstruction meeting all erosion and sediment control facilities and procedures shall be discussed.

3. Clear and grub, as necessary, for installation of perimeter controls. 4. Install perimeter sediment controls as shown on plans.

5. Install construction entrance and concrete washout facility, if conditions are such that mud is collecting on vehicle tires, the tires must be cleaned before the vehicles enter the public roadway. The site entrance shall be maintained in a condition that will prevent the tracking or flow of mud onto the public right—of—way. All materials spilled, dropped, washed or tracked from vehicles onto the roadway must be removed promptly.

6. Clear and grub the remaining site as necessary.

7. Refer to construction SWPPP plan sheet.

Seeding Dates	Seed Type	Application Rate Per 1,000 Sq.Ft.
March 1 — August 15	Oats Perennial Rye Grass Or Tall Fescue	3#
August 16 - November 1	Rye, Wheat or Perennial Rye Grass Tall Fescue	1#
After November 1	Straw or Hay Mulch	2-3 Bales
Seed Bed Preparation	Lime 10-10-10 or 12-12-12	100#
	Fertilizer	12-15#

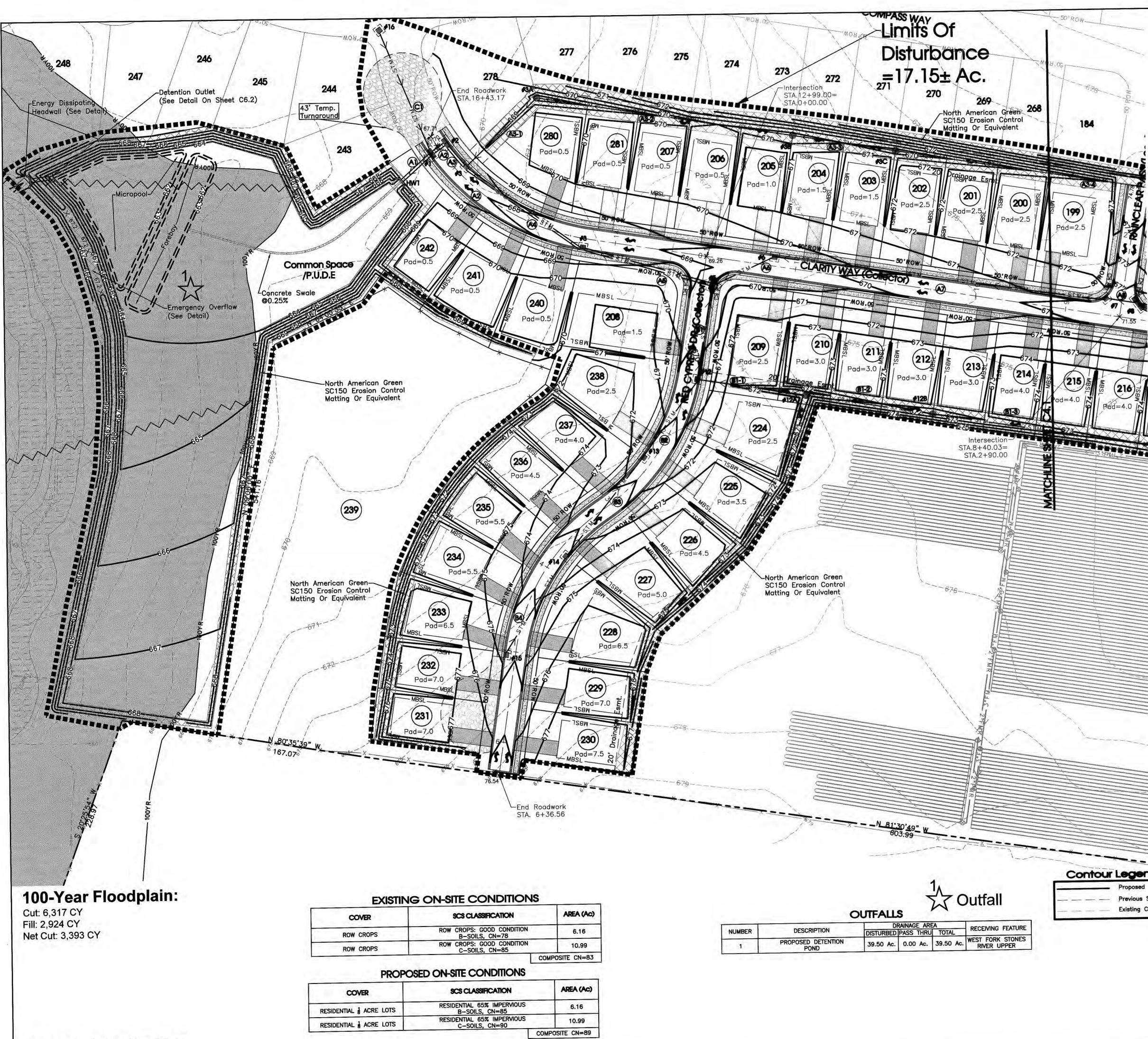
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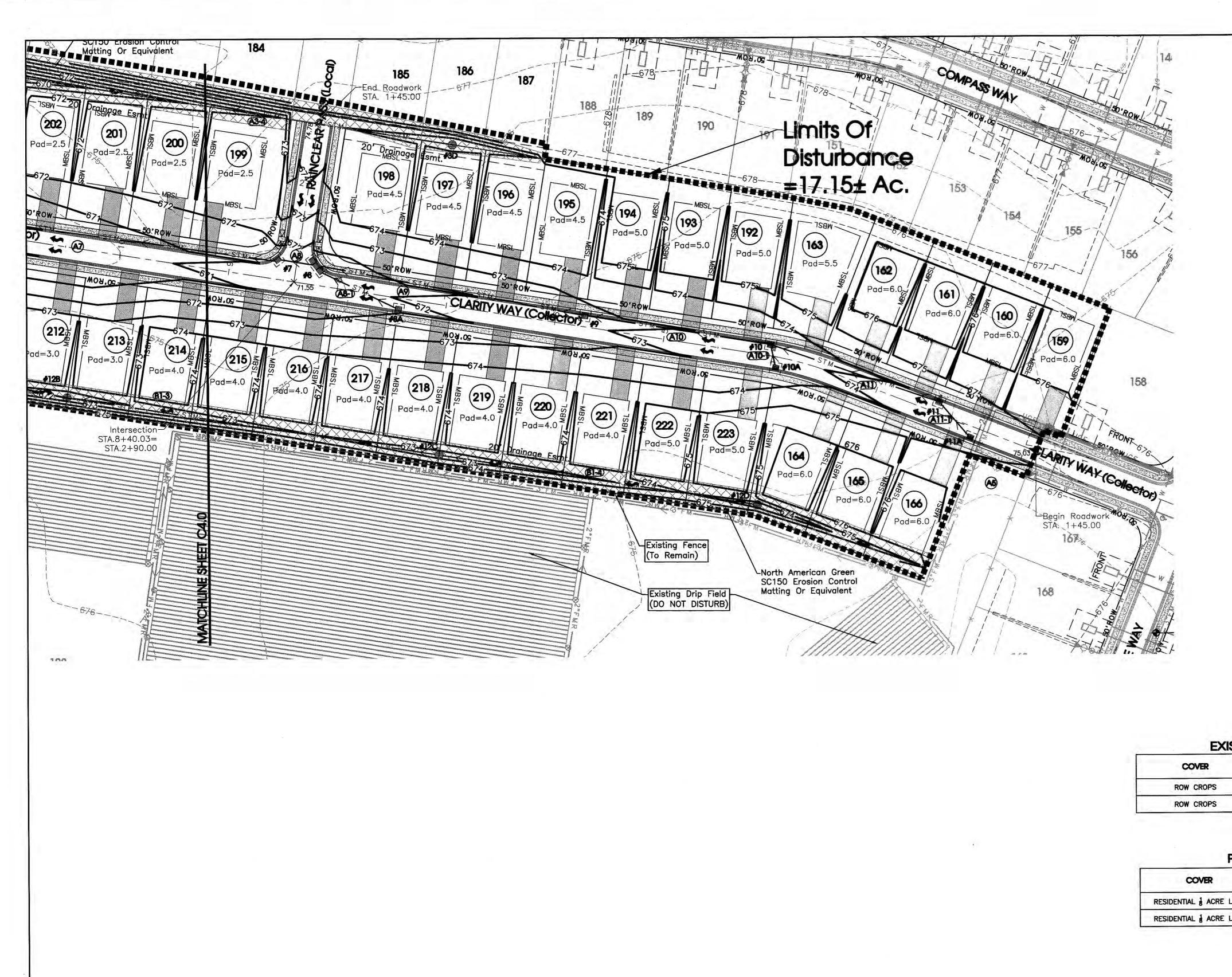
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2	PROPOSED DETENTION POND/SEDIMENT BASIN	39.50 Ac.	0.00 Ac.	39.50 Ac.	WEST FORK STONES RIVER UPPER



Structure Table See Sheet C4.1

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annonen algebracken annonen teleparte	- Existing

EXISTING ON-SITE CONDITIONS

COVER	SCS CLASSIFICATION	AREA (Ac)
ROW CROPS	ROW CROPS: GOOD CONDITION B-SOILS, CN=78	6.16
ROW CROPS	ROW CROPS: GOOD CONDITION C-SOILS, CN=85	10.99
		COMPOSITE CN=83

PROPOSED ON-SITE CONDITIONS

COVER	RESIDENTIAL 65% IMPERVIOUS B-SOILS, CN=85		AREA (Ac)	
RESIDENTIAL & ACRE LOTS			6.16	
RESIDENTIAL & ACRE LOTS	RESIDENTIAL 65% IMPERVIOUS C-SOILS, CN=90		10.99	
		COMPOSITE	CN=89	

		OUTFALLS	5	1 <u>入</u> 公 C	Dutfall
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NUMBER	DESCRIPTION	DISTURBED			RECEIVING FEATUR

Survey Control Field Survey performed from: 09-6 to 09-27, 2016. Horizontal and vertical survey control is tied to the Tennessee State Plane coordinate system (NAD83/NAVD88), referenced from Rutherford County Control monument number RCC-020.

BENCHMARK #1: CHISELED 'X' ON HW ELEV: 672.23 NAVD88

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> BENCHMARK #2: BENCHMARK #3: TPS TPS ELEV: 678.68 ELEV: 678.10 ELEV: 678.68 NAVD88

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•	IRON PIN SET (I.	P.S.)	Ġ	HANDICAP RAMP SYMBOL	ENGINEERING CONSULTANTS	ENGINEERING • SURVEYING • LAND PLANNING LANDSCAPE ARCHITECTURE	LE TENNESSEE BOULEVARD MURFREESBORO, TENNESSEE 37129 890-7901 E-MAIL: MTAYLOR@SEC-CIVIL.COM FAX: (615) 895-2567 Is drawing may be reproduced without the expressed written consent of s.e.c. inc.	COPYRIGHT S.E.C. INC., 2021 ese construction drawings is intended to achieve specific engineering design criteria and objectives. It is it he owner/developer to ensure that the construction of the site shown on these construction drawings is lift the design as noted, described, and illustrated. The engineer assumes no administrative liability or lift in the assurance that the site is constructed in accordance with the construction plans.
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