TENNES ACRICULTURE VIIIiam R. S	SEE DEPAR	RTMENT OF ENVIRON Division of Water Re ennessee Tower, 312 Nashville, Tennesse 1-888-891-8332 (1	NMENT esource Rosa L e, 3724 FDEC)	ANE s Parl 3	CONS	SERVATIC	DN Floor, Eive		1
Application for Aquatic Re	source Alte	ration Permit (ARAP)	& Stat	e §40	1 V2at	Quality	Certif	ficatio	on
OFFICIAL STATE USE ONLY Site	#:		Perm	it #:	NK	2180	4.2	4:2	8
Section 1. Applicant Information (individua	l responsible	for site, signs certification	1 below)						
Applicant Name (company or individual):	Regent Develo	pment, LLC			SOS #	: 0003430	07 Sta	atus:	Active
Primary Contact/Signatory: David McGowa	an	Signatory	's Title	or Po	sition:	Presiden	t		
Mailing Address: 6901 Lenox Village Drive	- Suite 107	City:	Nashvil	е		State: 7	rn zi	ip: 37	211
Phone: (615) 333-9000	Fax:	E-mail:	David.N	1cGov	wan@re	genthomes	s-tn.com	1	
Section 2. Alternate Contact/Consultant In	formation (a	consultant is not required	1)		C. Carl				
Alternate Contact Name: Eric Olsen			/			<u> </u>			
Company: Anderson, Delk, Epps & Associa	ites, Inc.	Title or P	osition:	Enai	neer				
Mailing Address: 618 Grassmere Park Drive	e - Suite 4	City: Na	shville			State: 1	TN Z	ip: 37	211
Phone: (615) 331-0809	Fax: (615) 3	331-0110 E-mail:	Anderso	nDell	@bells	outh.net			
Section 3. Fee (Application will be incomple	te until fee is i	received)							
Current application fee schedules can be fou https://www.tn.gov/environment/permit-perm or by calling (615) 532-0625. Please make c Billing Contact Name (if different from Applic Address:	ind at the Divis its/water-perm hecks payable ant): Name	sion of Water Resources hits1/aquatic-resource-alte e to "Treasurer, State of T e:	Amoun webpag eration-µ ennesse Phone	e at: permit ee".	nitted: <i>arap†</i> Em	\$ <u>500.00</u> html ail:			
Section 4. Project Details (fill in information	n and check a	ppropriate boxes)				1			
Site or Project Name: Carothers Crossing - F	Phase 7, Secti	on 1 Nearest	City, To	wn oi	· Major L	andmark:	Cane F	Ridge	Park
Street Address or Location (include Zip): 72	211 Carothers	Road, Nolensville, TN 3	7135		13		5		
County(ies): Davidson		MS4 Jurisdiction: Nas	diction: Nashville Latitude (dd.dddd): 35.9836 Longitude (dd.dddd): -86.6155						
Resource Proposed for Alteration:	Stream / Riv	ver 🗌 Wetland		Rese	rvoir				
Name of Water Resource (for more information	on, access http	o://tdeconline.tn.gov/dwr)	Unna	ned [Drain to I	East Branc	h Hurric	ane C	reek m
Brief Project Description (a more detailed des	cription is requ	uired under Section 8):							
Installation of a gravity sewer crossing of an	Unnamed Dra	in to East Branch Hurrica	ne Cree	k (35.	9832, -8	6.6108).			
Does the proposed activity require approval from other federal, state, or local government agent	om the U.S. A cy?	Army Corps of Engineers, Yes	the Ten No	nesse	e Valley	Authority,	or any		
If Yes, provide the permit reference numbers:									
Is the proposed activity associated with a larg	er common pl	an of development:	ΓY	es [No				
If Yes, submit site plans and identify the locat	ion and overal	Il scope of the common p	lan of de	velop	ment.				
Plans attached? 🔲 Yes 🔲 No									
If applicable, indicate any other federal, state, plan of development) that have been obtained	or local permi l in the past (e	its that are associated wit .g., construction general	h the ov permit a	erall p nd/or	oroject s other Al	ite (commo RAP):	n		
TNR242073									

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

cection 5. Project Schedule (IIII in Information and che	ck appropriate bo	xes)		
Proposed Start Date: December 2018	Estima	ted End Date:	January 2021	
Is any portion of the activity complete now?	Yes	🗹 No		
f 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 is not applicable, state the reason why it is not applicable.

Sect	ion 6. Description	Attac Yes	hed 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		0
6.6	In the case of wetlands, include a wetland delineation with delineation forms and site map denoting location of data points		0
6.7	A copy of all hydrologic or jurisdictional determination documents issued for water resources on the project site		0
Sectio	on 7. Project Rationale	Attac Yes	hed No
Descr be do	ibe the need for the proposed activity, including, but not limited to, the purpose, alternatives considered, and what will ne to avoid or minimize impacts to water resources	٥	
Sectio	on 8. Technical Information	Attac	hed
3.1	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 (<i>e.g., stream cross sections where road crossings are proposed</i>)	Yes	
3.2	.2 For both the proposed activity and compensatory mitigation, provide a discussion regarding the sequencing of events and construction methods		
.3	Depiction and narrative on the location and type of erosion prevention and sediment control (EPSC) measures for the proposed alterations		
ction	9. Water Resources Degradation (degree of proposed impact) Note that in most cases, activities that exceed the scope of the Gen ns are considered greater than de minimis degradation to water quality.	neral Perm	it
ease	provide your basis for concluding the proposed activity will cause one of the following levels of water quality		
grada	ation: a. De minimis degradation		
	b. Greater than <i>de minimis degradation</i> (if greater than <i>de minimis complete Sections 10-11</i>)		
or inf	ormation and guidance on the definition of de minimus and degradation, refer to the Antidegradation Statement in Chapter 0400-40-03 ssee Water Quality Criteria Rule at: http://publications.tnspsfiles.com/rules/0400/0400-40/0400-40 htm	06 of the	
or inf	ormation 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-permitarap-/permit-water-aquatic-resource-alteration-permits.html	ion-list-of-	

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

Section 10. Detailed Alternatives Analysis		Attac	ched
		Yes	No
10.1	Analyze all reasonable alternatives and describe the level of degradation caused by each of the feasible alternatives		
10.2	Discuss the social and economic consequences of each alternative		œ
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		Ø

Section 11. Compensatory Mitigation		Atta	hed	
11.1	A detailed discussion of the proposed compensatory mitigation		E	
11.2	Describe how the compensatory mitigation would result in no net loss of resource value		CI	
11.3	Provide a detailed monitoring plan for the compensatory mitigation site		C	
11.4	Describe the long-term protection measures for the compensatory mitigation site (e.g., deed restrictions, conservation easement)		C	

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. Lam 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.

David McGowan	President		10/20/12
Printed Name	Official Title	Signature	Date

Submitting the form and obtaining more information. 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 ARAP 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



(Page 3 of 3)

ANDERSON, DELK, EPPS & ASSOCIATES, INC. 618 GRASSMERE PARK, SUITE 4 NASHVILLE, TN 37211-3677 26573 PAY TO THE ORDER OF State of Dennessee. Fire hundred and 00/100/ DATE 11/30/2018 87-5/640 \$ 500,00 Usbank. DOLLARS Application Fee FOR Carothers Crossing Sewer Crossing ARAP Refler 3 MP

Application for Aquatic Resource Alteration Permit (ARAP)

Carothers Crossing Phase 7, Section 1

Property Map 188, p/o Parcel 8.00 Davidson County 7211 Carothers Road, Nolensville, TN 37135 November 1, 2018

<u>GRAVITY SEWER CROSSING OF</u> <u>UNNAMED DRAIN TO EAST BRANCH HURRICANE CREEK</u>

Section 6 : Project Description

(6.1) Description of Work to be Done : Installation of a 12" PVC gravity sewer line crossing that is to be encased in concrete for the length of the crossing. Flowable fill to be used to backfill open trench for the sewer line crossing.

(6.2) See attached map

(6.3) See attached photos

- (6.4) Description of Existing Drain : Some flow at time of examination. The drain is roughly 8' wide with a rocky bottom and steep eroded earth banks with vegitation.
- (6.5) Description of Proposed Drain : The existing drain characteristics upstream and downstream of the proposed sewer crossing are to be maintained. Rip rap is to be installed along the banks at the crossing to protect from erosion.

(6.6) Not Applicable

(6.7) No determination documents issued for site.

Section 7 : Project Rational

The purpose of the proposed project is to provide gravity sewer access to the proposed Phase 7, Section 1 and the future phases/sections of the Carothers Crossing development.

The pipe for the proposed sewer crossing has been sized in excess of what is needed for the proposed Phase 7, Section 1 to allow it to accommodate possible future flows from the development of the remaining areas of the Carothers Crossing development.

Since the Unnamed Drain to East Branch Hurricane Creek runs the length of the overall remaining property, there are no alternatives to provide gravity sewer to the proposed Phase 7, Section 1 and future phases/sections of the Carothers Crossing development.

Section 8 : Technical Information

(8.1) See attached detailed plans

(8.2) Mitigation Details : No Mitigation required.

Proposed Sequence of Events : 1) Any flow at time of construction to be block off and diverted using coffer dams, geotextile tubes, and/or pumps. **2)** Area to be grubbed. Disturbance of the area to be done no greater then 20 days prior to planned grading or construction activity. **3)** Install Sewer line and manholes. All excavation to be done by hoe ram. **4)** Install concrete check dams. **5)** Backfill excavated trench. Trench at crossing shall be filled to within 6" of original stream bed bottom. The remainder of fill shall consist of hand placed slab rocks. **6)** Silt fence, rip rap, and slope protection to be installed along the disturbed banks to prevent erosion. All disturbed areas are to be seeded and strawed, unless planed grading activities are to resume within 15 days. **7)** Final stabilization.

Construction Methods: Excavation of to be done by hoe ram. Any unsuitable material excavated is to be removed from the crossing area and disposed of properly.

(8.3) EPSC Measures: Silt fence will be used to limit the amount of sediments being discharged. Rip rap is to be used to stabilize the slopes at the crossing. All work to be in the dry by the contractor using coffer dams, geotextile tubes, and/or pumps. (see attached plan).

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

Will only cause de minimis degradation to water quality

The proposed work falls within the scope of the respective General Permit limitations.

Section 10 : Detailed Alternative Analysis

(10.1) Not Applicable (Section 9)

- (10.2) Not Applicable (Section 9)
- (10.3) Not Applicable (Section 9)

Section 11 : Mitigation

(11.1) Not Applicable (Section 9)

(11.2) Not Applicable (Section 9)

(11.3) Not Applicable (Section 9)

(11.4) Not Applicable (Section 9)

(11.5) Not Applicable (Section 9)





MASTER PLAN

Master Plan

The Master Plan for Carothers Crossing strikes a balance between being a legitimate regional extension of a pre-existing community (Lavergne), and a collection of freestanding villages in a trural landscape. The plan configuration of each of the four villages is dictated by the unique topography associated with each village's location on the site, the matural features of the site to be retained or enhanced, and the intended functional role or character of each particular village.

The primary form givers in terms of natural features and local amenities are the large open meadows to the east, the deep ravines and ridges to the south, the large knotl and the south, and the creeks which traverse the site in a largely west to east direction. A single existing thoroughfare, Carothers Road, also traverses the site in an east and west orientation, which will be replaced by an interconnected street network, serving the larger regional road network.

This road, properly designed to allow it to be safely and appropriately integrated into the Master Plan, will also be slightly realigned to allow it to help energize the Town Center Village, provide convenient access to same, and to better deal with issues and concerns of adjoining property owners on Battle Road regarding traffic and headlights. This realignment, along with a more urbanized section, should not impact in any substantive way, either Carothers Road's capacity or its ability to carry out its role within the larger regional transportation network.

Altogether, the resulting master plan represents an optimal response to the unique features and attributes of the site and the needs of the present and future residents in and around Carothers Crossing.

* Master Plan shown for illustrative purposes and intert. Actual detailed plans and locations of individual villages, streets and lots may vary, subject to constraints and conditions as yet to be determined: however, any changes proposed must be consistent with the intent of the illustrative plan.

5

AMENDED INTO THE UDO MAP 188 PARCEL 36.00 6

2

1,400'

0 350' 700'

AMENDED INTO THE UDO MAP 188 PARCELS 9.00, 12.00

1







3. Looking at Bank (Easterly)

4. Looking Downstream (Northerly)

CAROTHERS CROSSING PHASE 7, SECTION 1 SEWER CROSSING EXHIBIT







CAROTHERS CROSSING PHASE 7, SECTION 1 SEWER CROSSING EXHIBIT