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 Permit

OFFICIAL STATE USE ONLY	Site #:		Permit #:	

Section 1. Applicant Information *(individual responsible for site, signs certification below)*

Applicant Name: John Rector			
Company: BMJ Stone Company, LLC		Signatory's Title or Position: Partner	
Mailing Address: 848 Livingston Road, Suite 101, No.38		City: Crossville	State: TN / Zip: 35888
Phone: 931-707-0390	Fax: 931-707-7935	E-mail: bmjrocks@yahoo.com	

Section 2. Alternate Contact/Consultant Information *(a consultant is not required)*

Alternate Contact Name: T.C. Miller			
Company: TARE, INC.		Title or Position: P.E.	
Mailing Address: P.O. Box 846		City: Crossville	State: TN / Zip: 38557
Phone: 931-484-7543	Fax: 931-484-7544	E-mail: tareinc@frontiernet.net	

Section 3. Fee *(check appropriate box and submit requisite fee with application)*

☐ No Fee Submitted ☒ Fee Submitted with Application Amount Submitted: $ 500.0

Current fee schedules for Aquatic Resource Alteration Permit processing may be found at the Division of Water Resources webpage at http://www.tn.gov/environment/permits/arap.shtml or by calling (615) 532-0625. Make checks payable to "Treasurer, State of Tennessee".

Section 4. Project Details *(fill in information and check appropriate boxes)*

Site or Project Name: BMJ Stone Company, LLC		Nearest City, Town or Major Landmark: Spencer, Tennessee
Street Address or Location: 1152 Groves Road, Pikeville, Tennessee		
County(ies): Van Buren	MS4 Jurisdiction:	Latitude (dd.dddd): 35.67674 Longitude (dd.dddd): -85.32329

Resource Proposed for Alteration: ☒ Stream ☐ Wetland ☐ Reservoir

Name of Water Resource: un-named tributary to Onemile Creek

Brief Project Description (a more detailed description is required under Section 8):

Construction of a 15' wide bridge for a roadway crossing Rockhouse Branch

Does the proposed activity require approval from the U.S. Army Corps of Engineers, the Tennessee Valley Authority, or any other federal, state, or local government agency? ☐ Yes ☒ No

If Yes, provide the permit reference numbers: _____

Is the proposed activity associated with a larger common plan of development? ☐ Yes ☒ No

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 permit authorizations that the overall project site (common plan of development) has obtained in the past (i.e. construction general permit coverage and/or other ARAPs):

Section 5. Project Schedule *(fill in information and check appropriate boxes)*

Start date: September, 2015	Estimated end date: December, 2015

Is any portion of the activity complete now? ☐ Yes ☒ No If yes, describe the extent of the completed portion:

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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.

Section 6. Project Description		**Attached** 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 what will be done to avoid or minimize impacts to streams or wetlands.	☒	☐

Section 8. Technical Information		**Attached** Yes	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 both the proposed activity and compensatory mitigation, provide a discussion regarding the sequencing of events and construction methods	☒	☐
8.3	Depiction and narrative on the location and type of erosion prevention and sediment control (EPSC) measures for the proposed alterations	☒	☐

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.*

My activity, as proposed:

a. ☐ Will not cause measurable degradation to water quality

b. ☒ Will only cause de minimis degradation to water quality

c. ☐ Will cause more than de minimis degradation to water quality (*Complete additional sections 9-11*)

d. ☐ Unsure/need more information

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://www.tn.gov/sos/rules/0400/0400-40/0400-40-03.20131216.pdf. For more information on specifics on what General Permits can cover, refer to the Natural Resources Unit webpage at http://www.tn.gov/environment/permits/arap.shtml

If you checked "c." above in Section 9, complete the following 2 sections, 10-11.

Section 10. Detailed Alternative Analysis		**Attached** 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	☐	☒
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	☐	☒

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Section 11. Compensatory Mitigation		Attached Yes	Attached No
11.1	A detailed discussion of the proposed compensatory mitigation	☐	☒
11.2	Describe how the compensatory mitigation would result in no net loss of resource value	☐	☒
11.3	Provide a detailed monitoring plan for the compensatory mitigation site	☐	☒
11.4	Describe the long-term protection measures for the compensatory mitigation site *(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".

John Rector	Parnter		6-25-15
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 (e.g., maps, wetland delineations and narrative portions) 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	540 McCallie Avenue STE 550	37402-2013
Nashville	711 R S Gass Boulevard	37243	Knoxville	3711 Middlebrook Pike	37921
Columbia	1421 Hampshire Pike	38401	Johnson City	2305 Silverdale Road	37601

OFFICIAL STATE USE ONLY

Received Date:	Permit Number:	Reviewer:	Field Office:
Fee amount paid:	T & E Aquatic Flora and Fauna:	Impaired Receiving Stream:	Application Review:
Date:			☐ Deficient Date:
Check #:	Exceptional TN Water:		☐ Complete Date:

BMJ STONE COMPANY, LLC
ARAP CROSSING

Section 6 : Project Description

6.1 This project has been designed to facilitate the construction of a roadway crossing of Rockhouse Branch in Van Buren County, Tennessee. The crossing will be a pre-cast concrete clear span of the channel with formed and poured concrete support walls on either side of the channel. This bridge construction will allow for the construction of a haul road to access a proposed sandstone quarry. The site preparation will begin upon completion of the sediment control installation. Work will be completed during a dry period to minimize any adverse affect to the surrounding area during construction. Erosion and sediment control devices will be installed immediately downstream of the proposed crossing area. The erosion controls will include rock filter berms and filter fence. Upon completion, the approach outslopes will be seeded and mulched for stabilization.

6.2 A Site Location Map showing the exact location of the proposed crossing is included in this application.

6.3 Photographs of the area immediately upstream and downstream of the proposed extension/crossing were taken on May 26, 2015. Copies of these photos have been included with this submittal.

6.4 The existing stream channel at the point of the proposed bridge crossing will be made is approximately 18 feet wide and 24-30 inches deep. The stream channel follows a naturally eroded rock lined channel with a solid rock bottom. The streamside vegetation consists of local hardwoods and thick brushy vegetation.

6.5 The proposed bridge installation will have minimal affect on the existing channel. No excavation or dredging of the existing channel is anticipated. There will be no modifications to the natural channel. Streamside vegetation however will be removed where the roadway will cross the existing channel. The site clearing operation will center at the crossing location and extend approximately 20 feet upstream and downstream of the crossing. Work will be completed during a dry period to minimize any adverse affect to the channel during construction. Erosion and sediment control devices will be installed on the banks at the bridge installation location. The erosion controls will include rock filter berms and filter fence. Total disturbance in the immediate area of the proposed crossing is estimated to be less than 0.25 acre. Upon completion of the crossing the disturbed areas will be graded to match surrounding areas, seeded and mulched to stabilize.

6.6 N/A

6.6 Wetlands do not appear evident at this site.

Section 7: Project Rationale

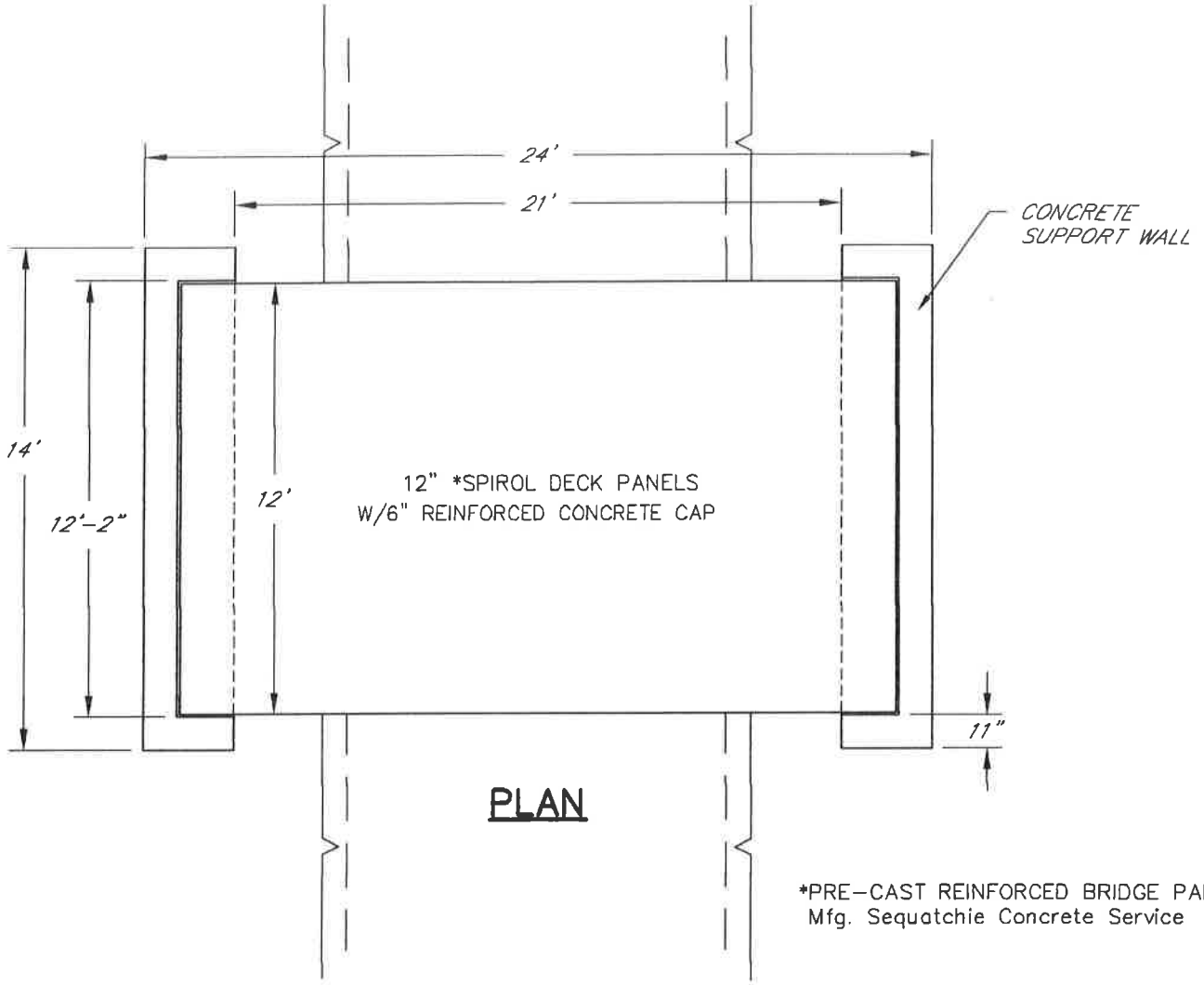
7.1 The proposed crossing will facilitate access to the adjacent property. Work will be completed during a dry period to minimize any adverse affect to the surrounding area during construction. Erosion and sediment control devices will be installed as shown on the plans

Section 8: Technical Information

8.1 Detailed Plans for the crossing have been included with this submittal.

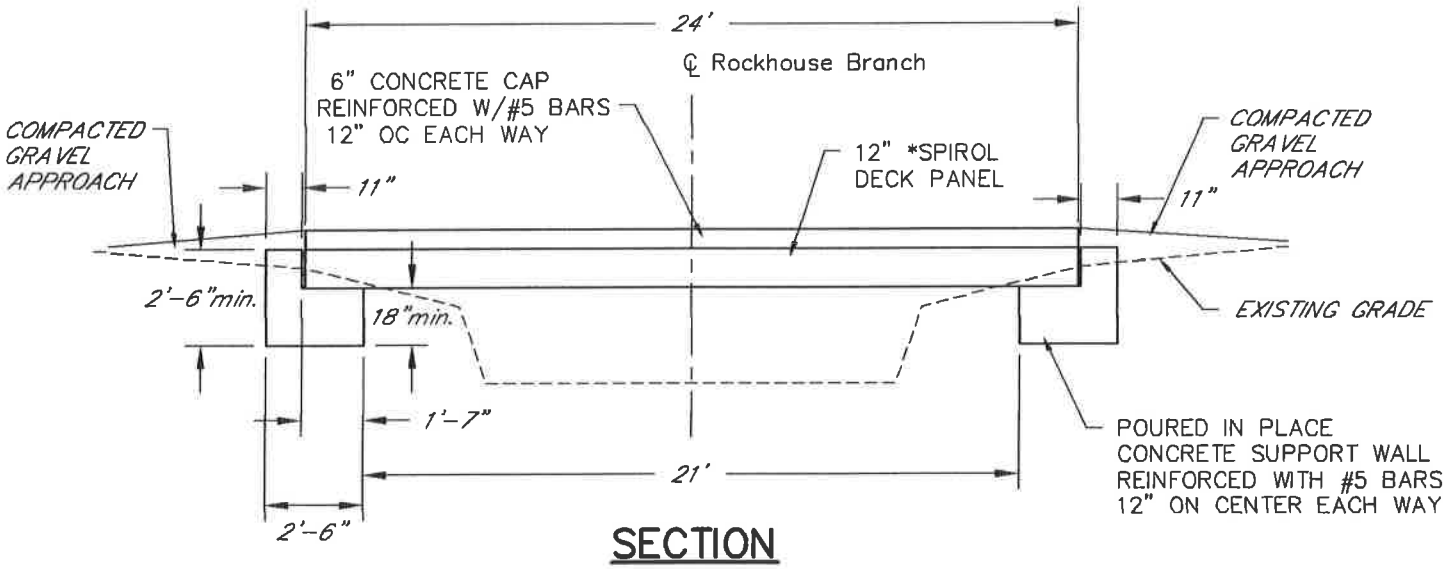
8.2 After initial erosion control installation a track hoe will be used to minimally remove vegetation from the stream banks to allow for bridge support construction access. The support wall sections will be cast in place and pre-cast concrete bridging sections will be delivered by truck and placed across the prepared crossing. A reinforced concrete cap will be poured over the top of the pre-cast bridge panels. The proposed crossing approaches will be constructed from locally available fill material. Gravel will be installed for final driving surface. The finished site and surrounding area will be stabilized.

8.3 The erosion controls will include rock filter berms, and filter fence as necessary. The controls will be installed as shown on the plans to intercept runoff from the crossing area. Upon completion, the fill slopes will be seeded and mulched for stabilization and the roadway crossing approaches will be graveled for stabilization.



PLAN

*PRE-CAST REINFORCED BRIDGE PANEL
Mfg. Sequatchie Concrete Service



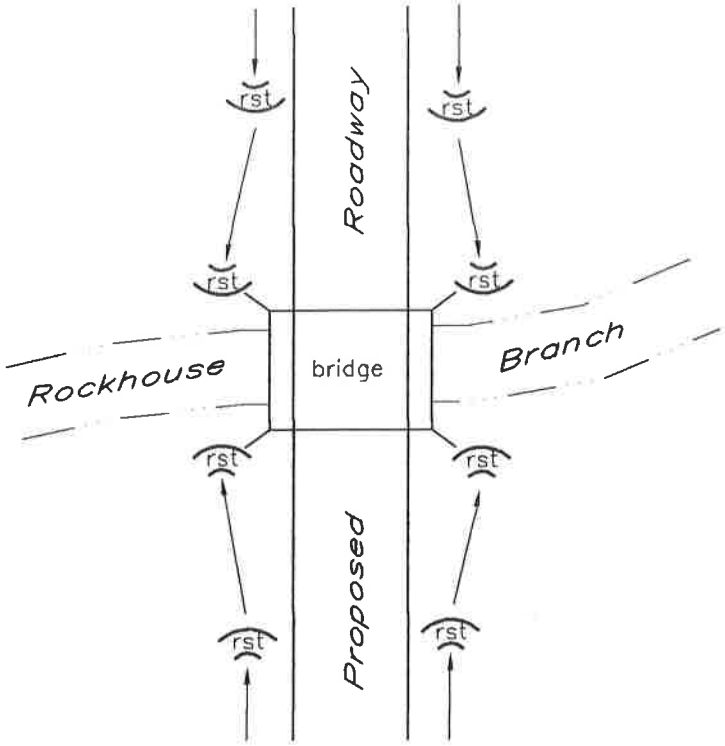
SECTION

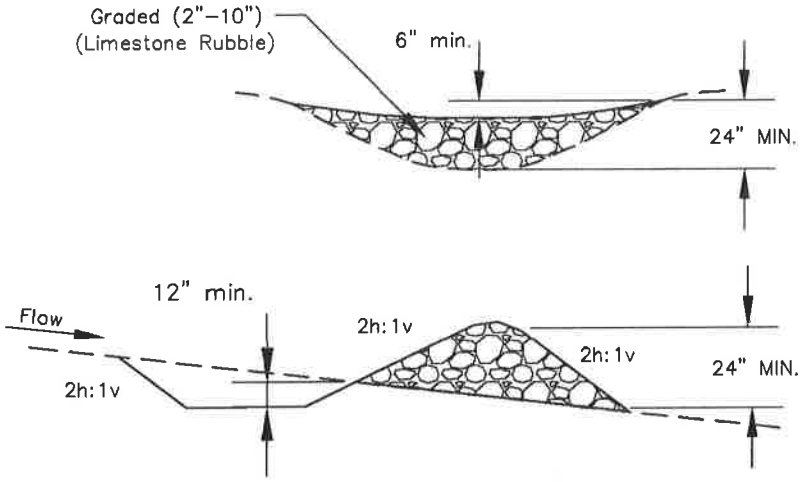
BRIDGE CONSTRUCTION DETAILS

Not to Scale

July, 2015

TARE, INC.
Terre-Aqua Resource Engineering, Inc.
Crossville, Tennessee





RIP–RAP SEDIMENT TRAP

Not to Scale

NOTES:

1. SEDIMENT TRAPS SHALL BE INSTALLED ON 25' CENTERS.
2. SEDIMENT SHALL BE REMOVED WHEN 50% OF AVAILABLE VOLUME IS REACHED.
3. SEDIMENT TRAPS SHALL BE LOCATED TO INTERCEPT DISTURBED RUNOFF.

BRIDGE CONSTRUCTION EROSION CONTROL

July, 2014

TARE, INC.
Terre-Aqua Resource Engineering, Inc.
Crossville, Tennessee

ARAP Crossing Looking Down Stream

ARAP Crossing Looking Up-Stream