



**TENNESSEE DEPARTMENT OF ENVIRONMENT AND CONSERVATION  
ENVIRONMENTAL FIELD OFFICE**

**3711 Middlebrook Pike  
Knoxville, TN 37921**

**(865)594-6035 STATEWIDE 1-888-891-8332 (865)594-6105**

**Receipt:** EAC-K-12695

**Date of Receipt:** 02-Nov-2022 9:23 am

**Created By:** Haley Mills (BG57037)

**County:** Knox

**EFO/Office:** Knoxville Field Office

**Received From:** Allen Hoshall

**Company/Affiliation:** Allen&Hoshall

**Recipient Address:** 1661 International Drive Suite 100  
MEMPHIS, TN- 38120

**Amount Received:** \$500.00

**Method of Payment:** CHECK

**Check Number:** 128810

**Comments:** ARAP Sevierville Community Center and Police Department Additions

Division	Description	TDEC Code	Quantity	Unit Price	Line Total
WPC	WPC-ARAP-\$500 Permit Application	43.340.F02	1	\$500.00	\$500.00

**Receipt Total:** **\$500.00**

**TENNESSEE DEPARTMENT OF ENVIRONMENT AND CONSERVATION****NOV 02 2022**

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**

<b>OFFICIAL STATE USE ONLY</b>	Site #:	Permit #:
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**Section 1. Applicant Information** (individual responsible for site, signs certification below)

Applicant Name (company or individual): <b>City of Sevierville</b>		SOS #:	Status: <b>N/A</b>
Primary Contact/Signatory: <b>Russell G. Treadway</b>		Signatory's Title or Position: <b>City Administrator</b>	
Mailing Address: <b>120 Gary Wade Blvd</b>		City: <b>Sevierville</b>	State: <b>TN</b> Zip: <b>37862</b>
Phone: <b>865-453-5504</b>	Fax:	E-mail: <b>rgtreadway@seviervilletn.org</b>	

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

Alternate Contact Name: <b>Angie Thweatt</b>			
Company: <b>Allen &amp; Hoshall</b>		Title or Position: <b>Civil Engineer</b>	
Mailing Address: <b>1661 International Drive, Suite 100</b>		City: <b>Memphis</b>	State: <b>TN</b> Zip: <b>38120</b>
Phone: <b>901-820-0820</b>	Fax:	E-mail: <b>athweatt@allenhoshall.com</b>	

**Section 3. Fee** (application will be incomplete until fee is received)

<input type="checkbox"/> No Fee	<input checked="" type="checkbox"/> Fee Submitted with Application	Amount Submitted: \$ <u>500.00</u>
Current application fee schedules can be found at the Division of Water Resources webpage at: <a href="https://www.tn.gov/environment/permit-permits/water-permits1/aquatic-resource-alteration-permit-arap-.html">https://www.tn.gov/environment/permit-permits/water-permits1/aquatic-resource-alteration-permit-arap-.html</a> or by calling (615) 532-0625. Please make checks payable to "Treasurer, State of Tennessee".		
Billing Contact (if different from Applicant):	Name:	Email:
Address:	Phone:	

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

Site or Project Name: <b>Sevierville Community Center and Police Department Additions</b>		Nearest City, Town or Major Landmark: <b>Sevierville</b>	
Street Address or Location (include zip): <b>200 Gary Wade Blvd, Sevierville, 37862</b>			
County(ies): <b>Sevier</b>	MS4 Jurisdiction:	Latitude (dd.dddd): <b>35.8646</b>	
		Longitude (dd.dddd): <b>-83.5564</b>	
Resources Proposed for Alteration: <input checked="" type="checkbox"/> Stream / River <input type="checkbox"/> Wetland <input type="checkbox"/> Reservoir			
Name of Water Resource (for more information, access <a href="http://tdeconline.tn.gov/dwr">http://tdeconline.tn.gov/dwr</a> ): <b>Middle Creek from Little Pigeon River to confluence of Seaton Branch</b>			
Brief Project Description (a more detailed description is required under Section 8): <b>Construction of two (2) stormwater headwalls on the west bank of Middle Creek.</b>			

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?	
<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
If Yes, provide the permit reference numbers: <b>Applied for TDEC-NPDES NOI and TDEC Wastewater Plans Review</b>	
Will the activity require a 401 Water Quality Certification: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
If Yes, attach any 401 WQC pre-filing meeting request documentation	
Is the proposed activity associated with a larger common plan of development: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
If Yes, submit site plans and identify the location and overall scope of the common plan of development.	
Plans attached? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> 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):	

## 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: 11/22

Estimated end date: 11/24

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 is not applicable, state the reason why it is not applicable.**

**Section 6. Description**

Attached	
Yes	No

6.1 A narrative description of the scope of the project

<input checked="" type="checkbox"/>	<input type="checkbox"/>
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6.2 USGS topographic map indicating the exact location of the project (can be a photographic copy)

<input checked="" type="checkbox"/>	<input type="checkbox"/>
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6.3 Photographs of the resource(s) proposed for alteration with location description (photo locations should be noted on map)

<input checked="" type="checkbox"/>	<input type="checkbox"/>
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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

<input checked="" type="checkbox"/>	<input type="checkbox"/>
-------------------------------------	--------------------------

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

<input checked="" type="checkbox"/>	<input type="checkbox"/>
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6.6 In the case of wetlands, include a wetland delineation with delineation forms and site map denoting location of data points

<input type="checkbox"/>	<input checked="" type="checkbox"/>
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6.7 A copy of all hydrologic or jurisdictional determination documents issued for water resources on the project site

<input type="checkbox"/>	<input checked="" type="checkbox"/>
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**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

<input checked="" type="checkbox"/>	<input type="checkbox"/>
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**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)

<input checked="" type="checkbox"/>	<input type="checkbox"/>
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8.2 For the proposed activity and compensatory mitigation, provide a discussion regarding the sequencing of events and construction methods and any proposed monitoring

<input checked="" type="checkbox"/>	<input type="checkbox"/>
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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

<input checked="" type="checkbox"/>	<input type="checkbox"/>
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**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:

- ☒ a. *De minimis* degradation, no appreciable permanent loss of resource values
- ☐ b. 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/0400/0400-40/0400-40.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

Section 10. Detailed Alternatives Analysis		Attached Yes 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.	<input type="checkbox"/>	<input type="checkbox"/>
10.2	Discuss the social and economic consequences of each alternative	<input type="checkbox"/>	<input type="checkbox"/>
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	<input type="checkbox"/>	<input type="checkbox"/>

Section 11. Compensatory Mitigation		Attached Yes No	
11.1	A detailed discussion of the proposed compensatory mitigation. Provide evidence of credit reservation if proposing to utilize a third-party provider.	<input type="checkbox"/>	<input type="checkbox"/>
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 debt/credit calculations.	<input type="checkbox"/>	<input type="checkbox"/>
11.3	Describe how the compensatory mitigation would result in no net loss of resource value	<input type="checkbox"/>	<input type="checkbox"/>
11.4	Provide a detailed monitoring plan for the compensatory mitigation site if permittee-responsible project is proposed	<input type="checkbox"/>	<input type="checkbox"/>
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)	<input type="checkbox"/>	<input type="checkbox"/>

## 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.**

Russell G. Treadway	City Administrator		10-28-22
Printed Name	Official Title	Signature	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](mailto: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



## Application for Aquatic Resource Alteration Permit (ARAP) Project: Sevierville Community Center and Police Department Additions

### 6.1 Scope of Project

This project is to install two (2) new concrete headwalls associated with the stormwater improvements for the additions to the existing Community Center and Police Department. The headwall aprons will be installed at the channel bottom to prevent further erosion of the slopes. Rip rap will be placed within the apron to reduce velocity of the water as it exits the pipe and also in front of the apron to help reduce scour.

### 6.2 USGS Topographic Map

See attachments.

### 6.3 Photographs

See attachments.

### 6.4 Description of Existing Stream

The existing stream is an open channel with fairly consistent widths. The bottom width is approximately 40 feet wide. The top width is approximately 80 feet wide. The approximate depth of the channel is 4 -5 feet. The banks are maintained grass.

### 6.5 Description of Proposed Stream

The proposed improvements will not alter the existing stream conditions except for the area immediately around the new headwalls. The new headwalls and pipe will be installed and the bank will be graded along the wingwalls. The disturbed slope will be sodded and rip rap will be installed to reduce exit velocities.

### 6.6 Wetland Delineation

There are no wetlands in the project area.

### 6.7 Hydrologic or Jurisdictional Determination Documents.

There are no documents issued on this project site.

## **7. Project Rationale**

This project seeks to install two (2) new headwalls and stabilize the area surrounding the headwalls. This project provides an outfall for the proposed drainage systems. In order to provide adequate coverage on the piped system and positive outfall, the system connection must discharge directly to the creek. The existing piped stormwater system was not sized for the proposed improvements and therefore could not be connected to.

## **8.1 Detailed Plans**

See attachments.

## **8.2 Sequencing of Events and Construction Methods**

1. Install phase 1 erosion control measures.
2. Begin clearing and demolition activities.
3. Excavations shall be kept to a minimum to avoid damage to adjacent stream bank and greenway trail.
4. Storm water flow in the existing channel shall be diverted around the construction area during installation of the new concrete headwall.
5. Erosion control measures shall be maintained throughout construction.
6. Once all earth disturbing activities are complete and final stabilization is attained, remove all temporary erosion control measures.

## **8.3 Erosion Control Measures**

### **1. Silt Fence**

The silt fence used onsite will serve to filter water over longer overland drainage pathways and reduce the amount of sediment-laden runoff reaching the inlets and drainage ditch. Due to the nature of the construction activities, some silt fence may have to be removed for periods of the construction. The silt fence should be replaced prior to anticipated storm events. Silt fence shall be inspected and repaired routinely as a part of the standard inspection process.

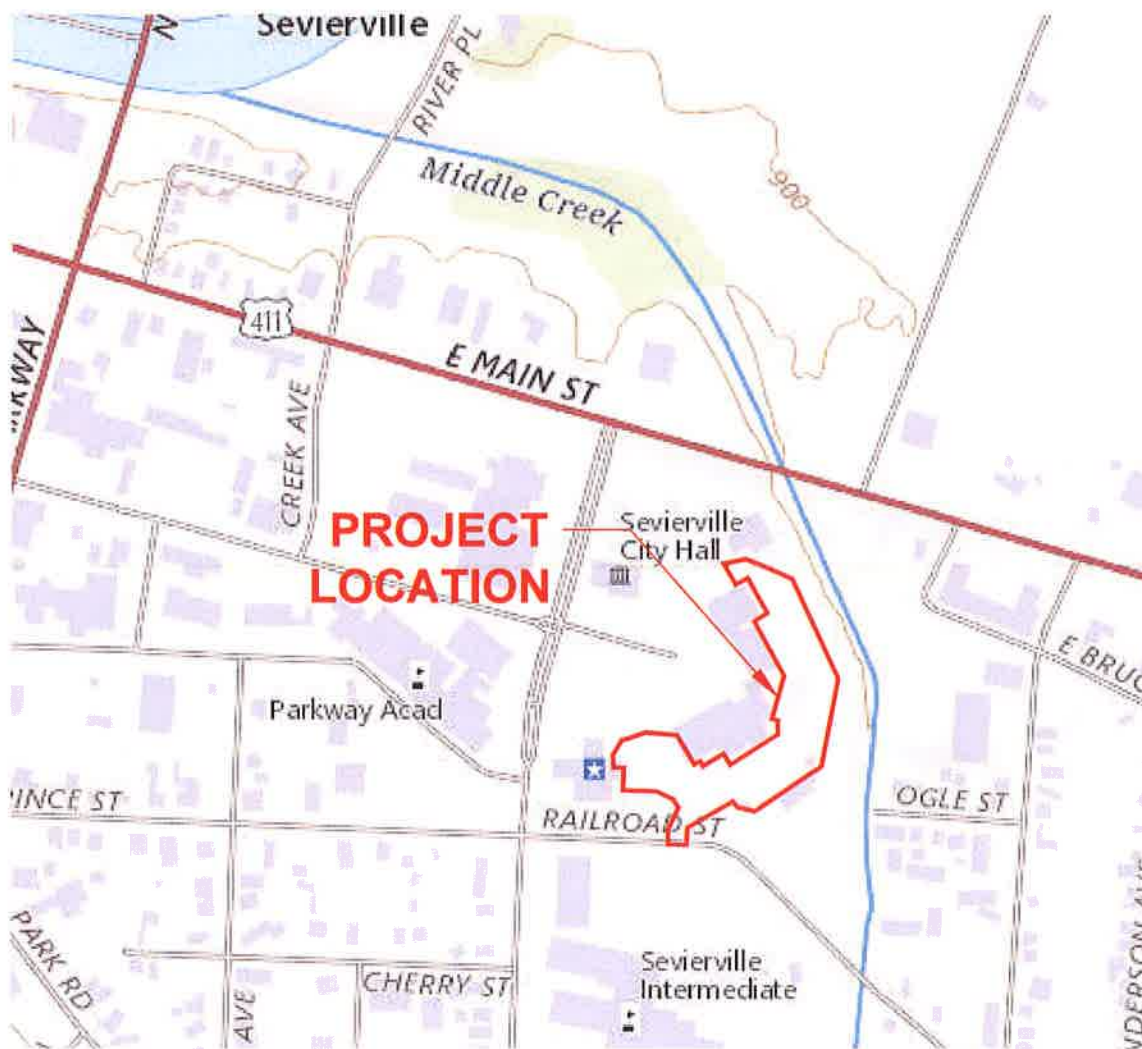
### **2. Rip Rap**

Rip Rap are man-placed rock or other material placed along channels and slopes to protect against erosion and scour. Rip Rap ( $D_{50}=2''$ ,  $D_{max}=3''$ , 6" thick) shall be placed in front of the concrete headwall aprons to slow the velocity of the flow entering the stream and at the side to further protect the slopes from erosion.

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Memphis, TN 38120



QUADANGULAR MAP

SEVIERVILLE COMMUNITY CENTER AND POLICE DEPARTMENT ADDITIONS

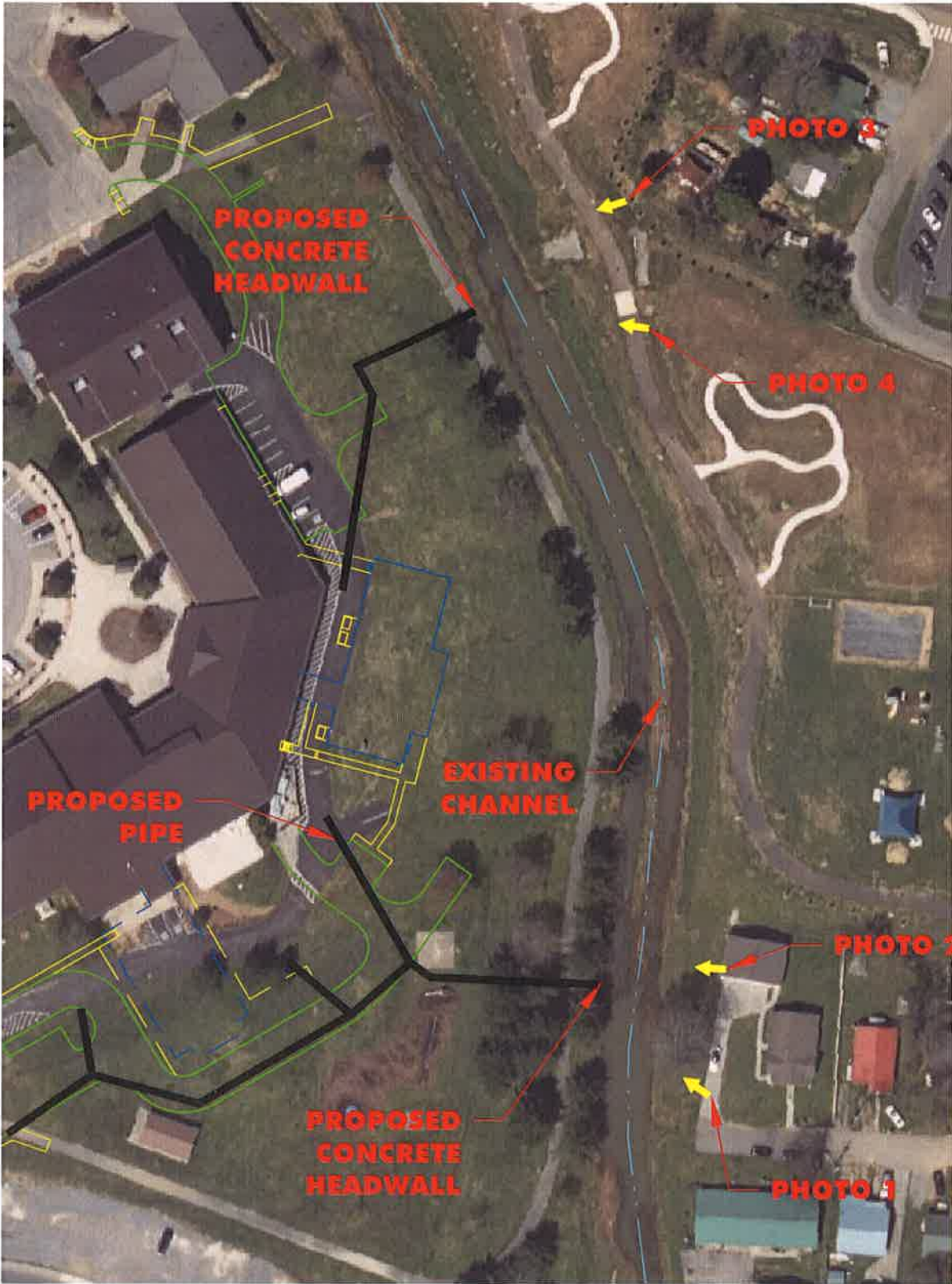
1" = 500'

SEPTEMBER 14, 2022

Date

Sheet Number





PHOTOGRAPH LOCATIONS





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PHOTO 1: LOCATION OF PROPOSED SOUTH HEADWALL

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PHOTO 2: LOCATION OF PROPOSED SOUTH HEADWALL



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PHOTO 3: LOCATION OF PROPOSED NORTH HEADWALL

NOV 02 2022

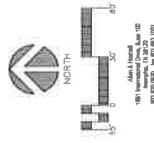
**Allen & Hoshall**  
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Memphis, TN 38120



PHOTO 4: LOCATION OF PROPOSED NORTH HEADWALL



COMMUNITY CENTER  
ADDITION

200 GARY R. WADE BLVD.  
SEVIERVILLE, TN 37862

CITY OF SEVIERVILLE

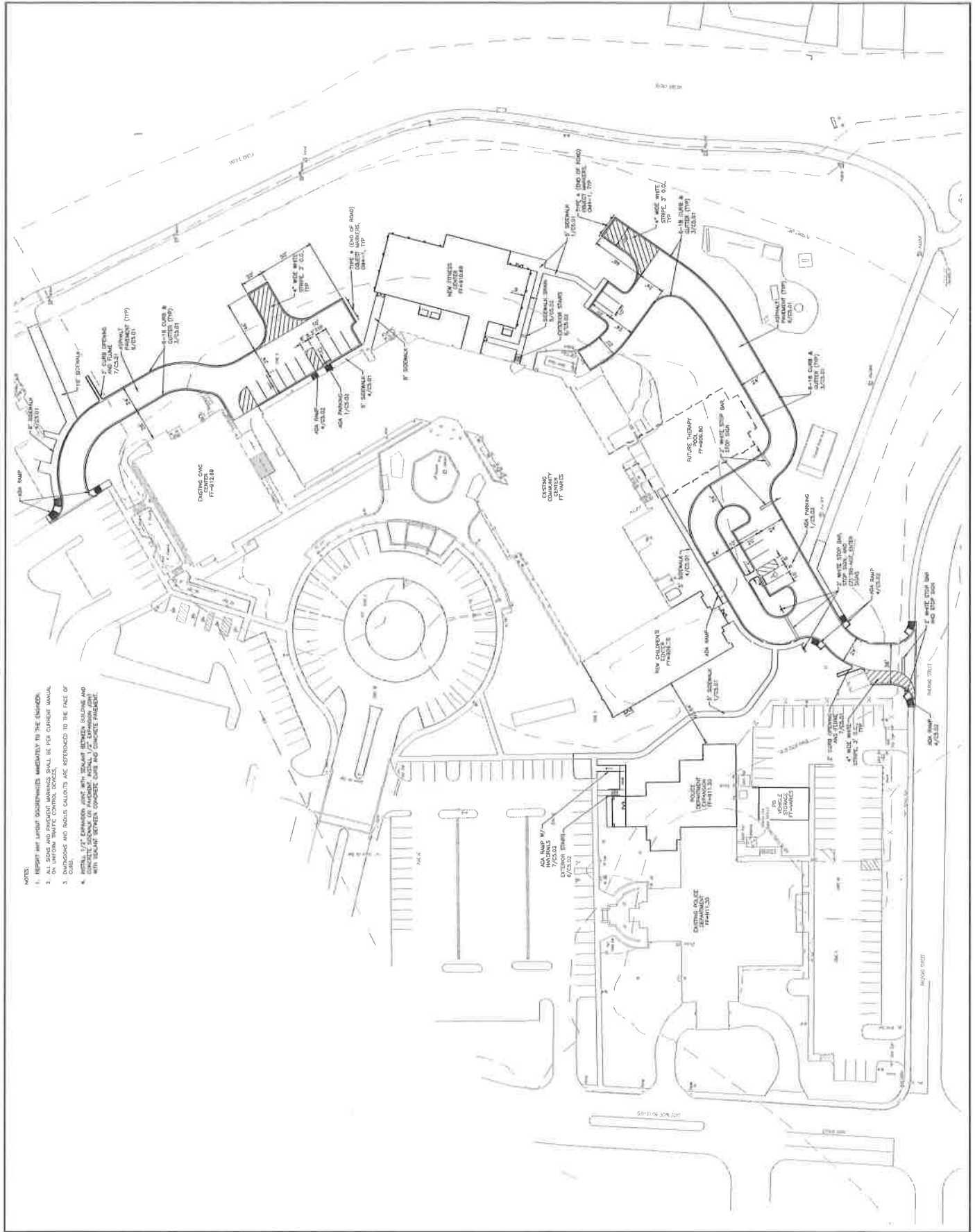
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## SITE PLAN

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DATE	10.07.20
CRMR	AJT
CHECKED	AJT



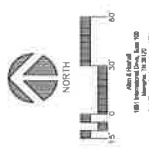
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NOV 02 2022



Allen & Hoshall  
engineers • architects • surveyors



CONTRACT  
The Engineer's responsibility is to design a system and submit the  
information to the City for review and approval.

COMMUNITY CENTER  
ADDITION  
200 GARY R. WADE BLVD.  
SEVIERVILLE, TN 37862

CITY OF SEVIERVILLE

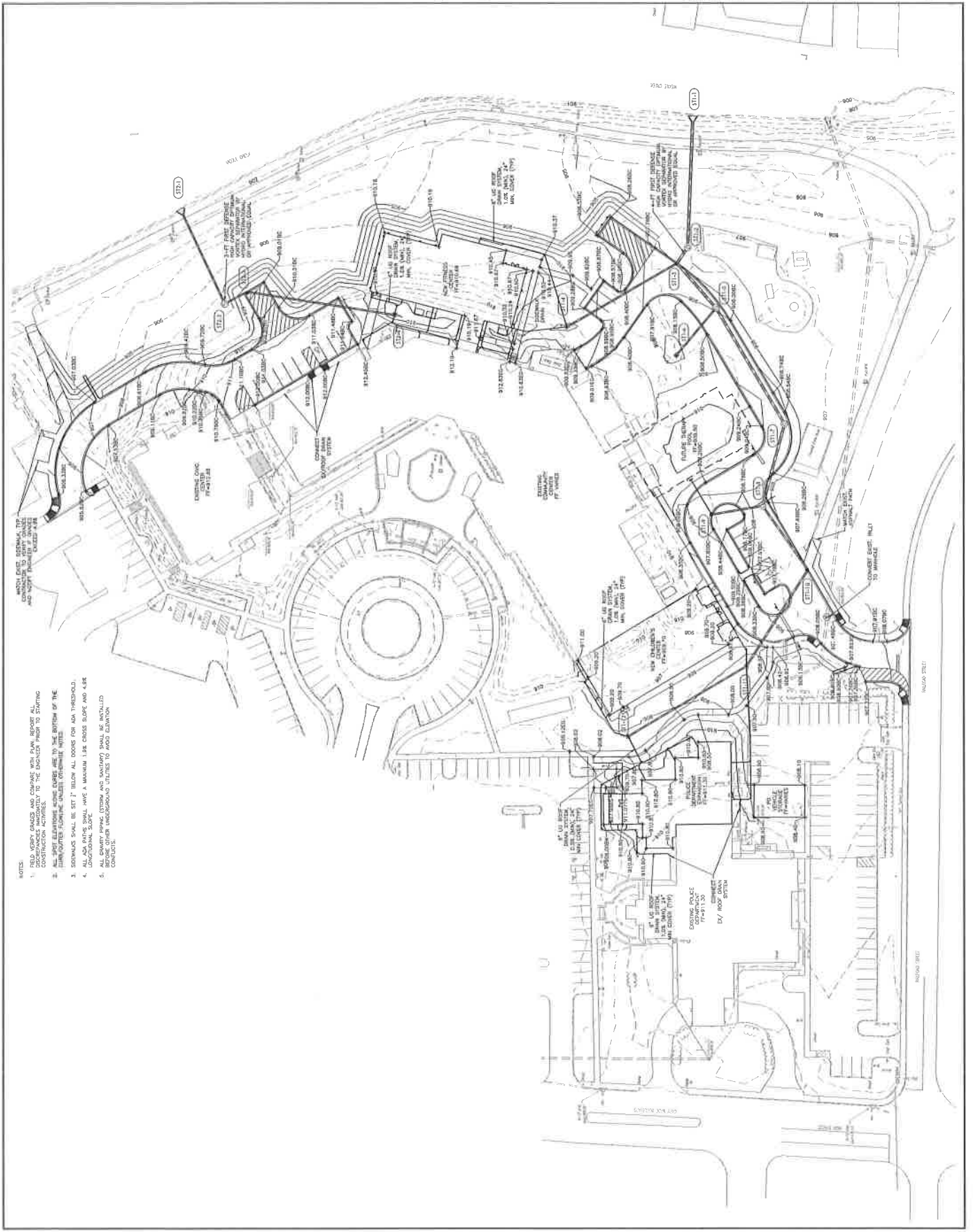
NO.	DATE	DESCRIPTION
1	11/02/22	ISSUED FOR PERMIT

GRADING AND DRAINAGE  
PLAN

DATE: 11/02/22  
DRAWN: JUT  
CHECKED: JUT

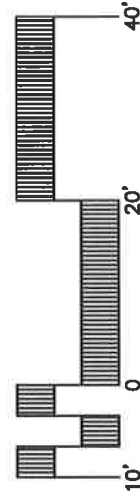
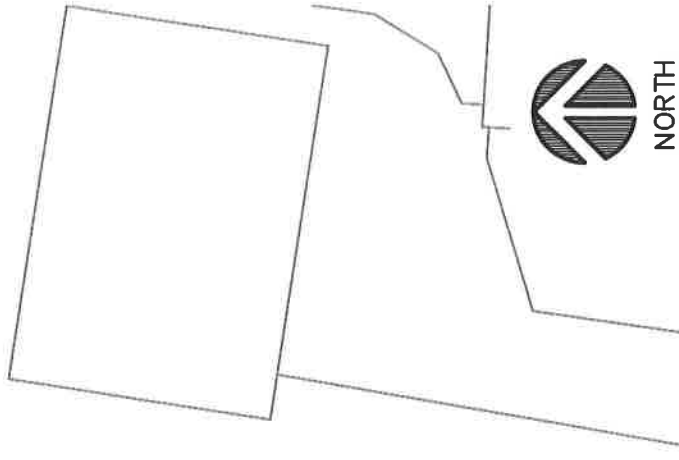


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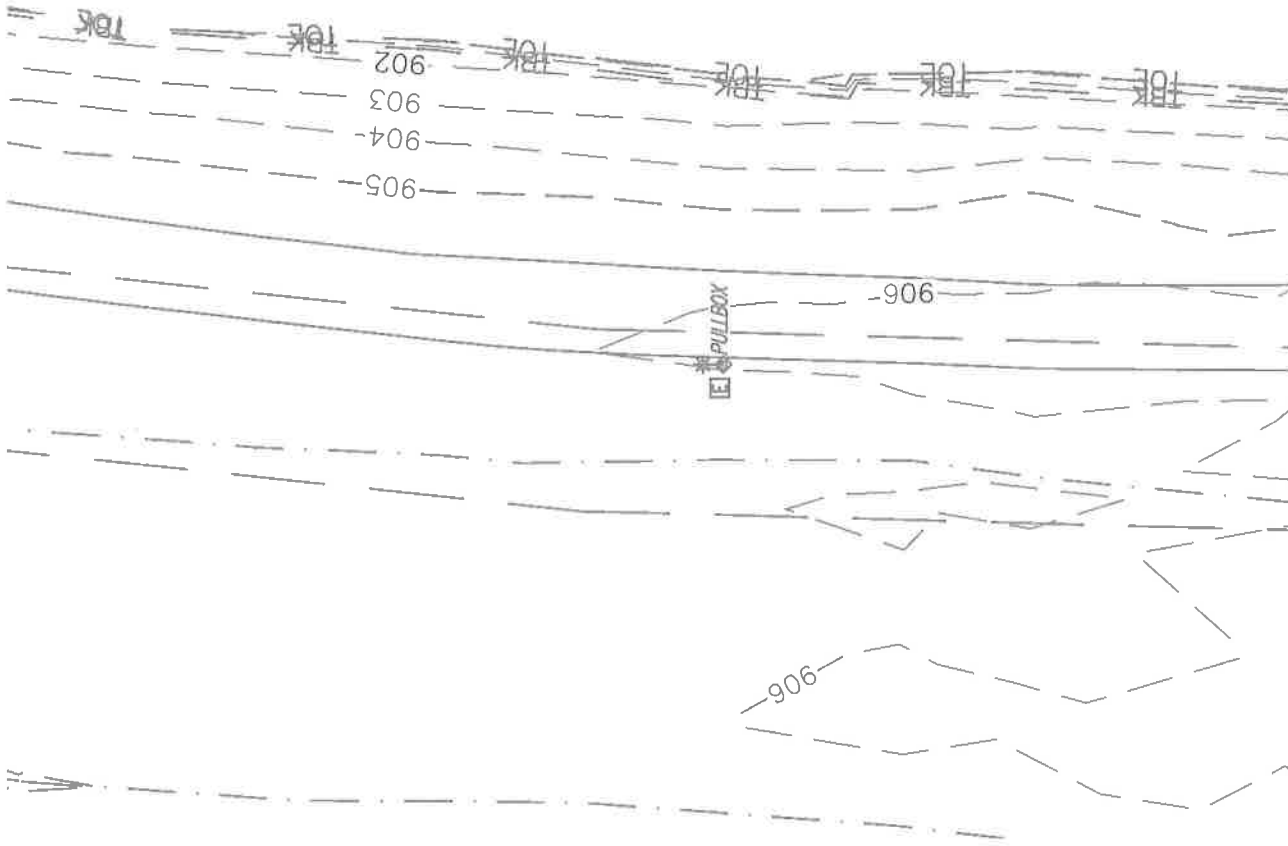


10.18.22  
Date

8.1A  
Sheet Number

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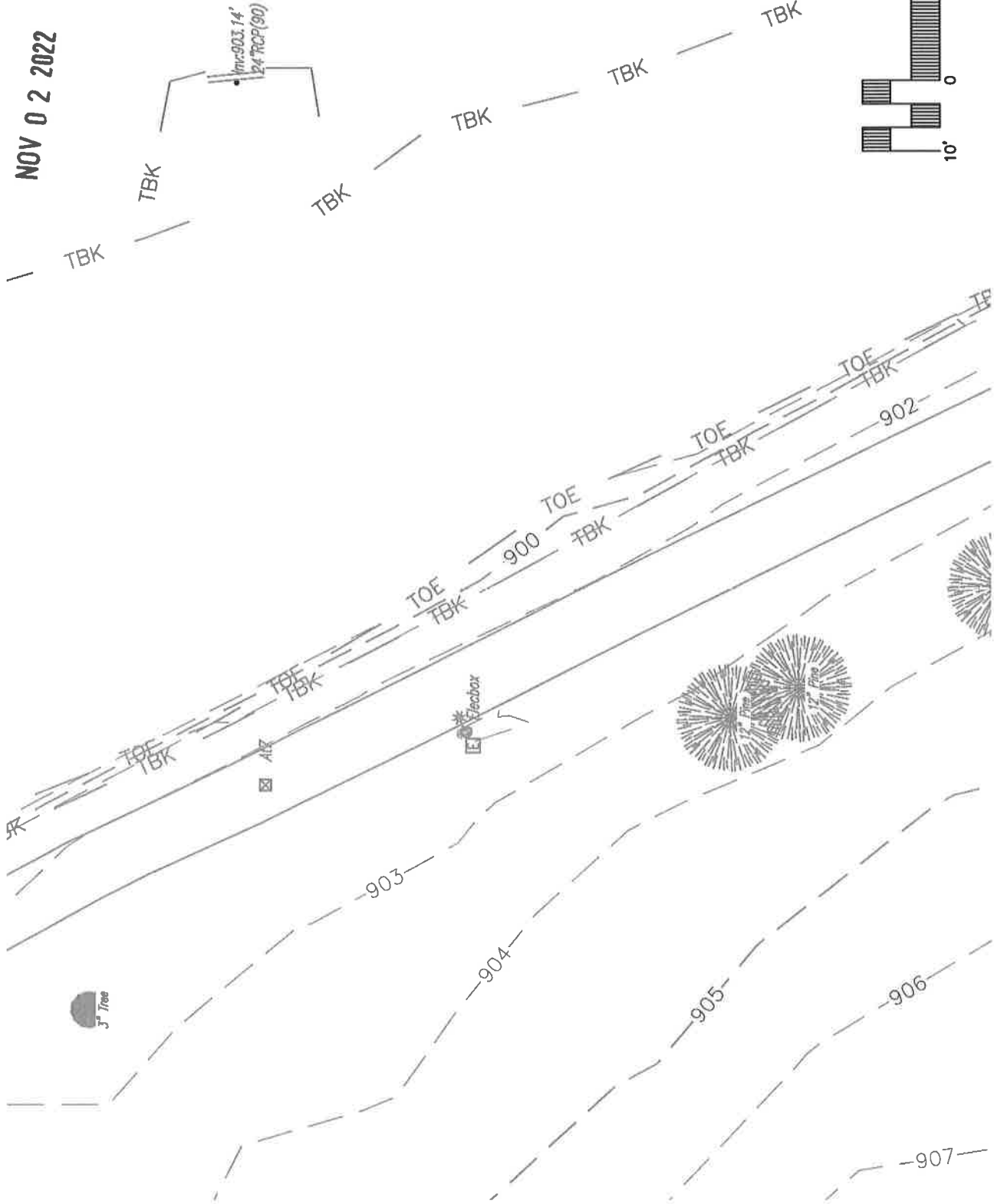
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EXISTING CONDITIONS AT ST1-1

SEVIERVILLE COMMUNITY CENTER AND POLICE DEPARTMENT ADDITIONS

NOV 02 2022



EXISTING CONDITIONS AT ST2-1

SEVIERVILLE COMMUNITY CENTER AND POLICE DEPARTMENT ADDITIONS

1" = 20'

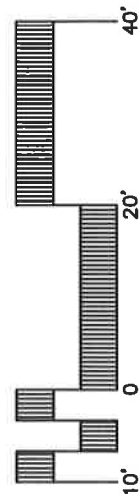
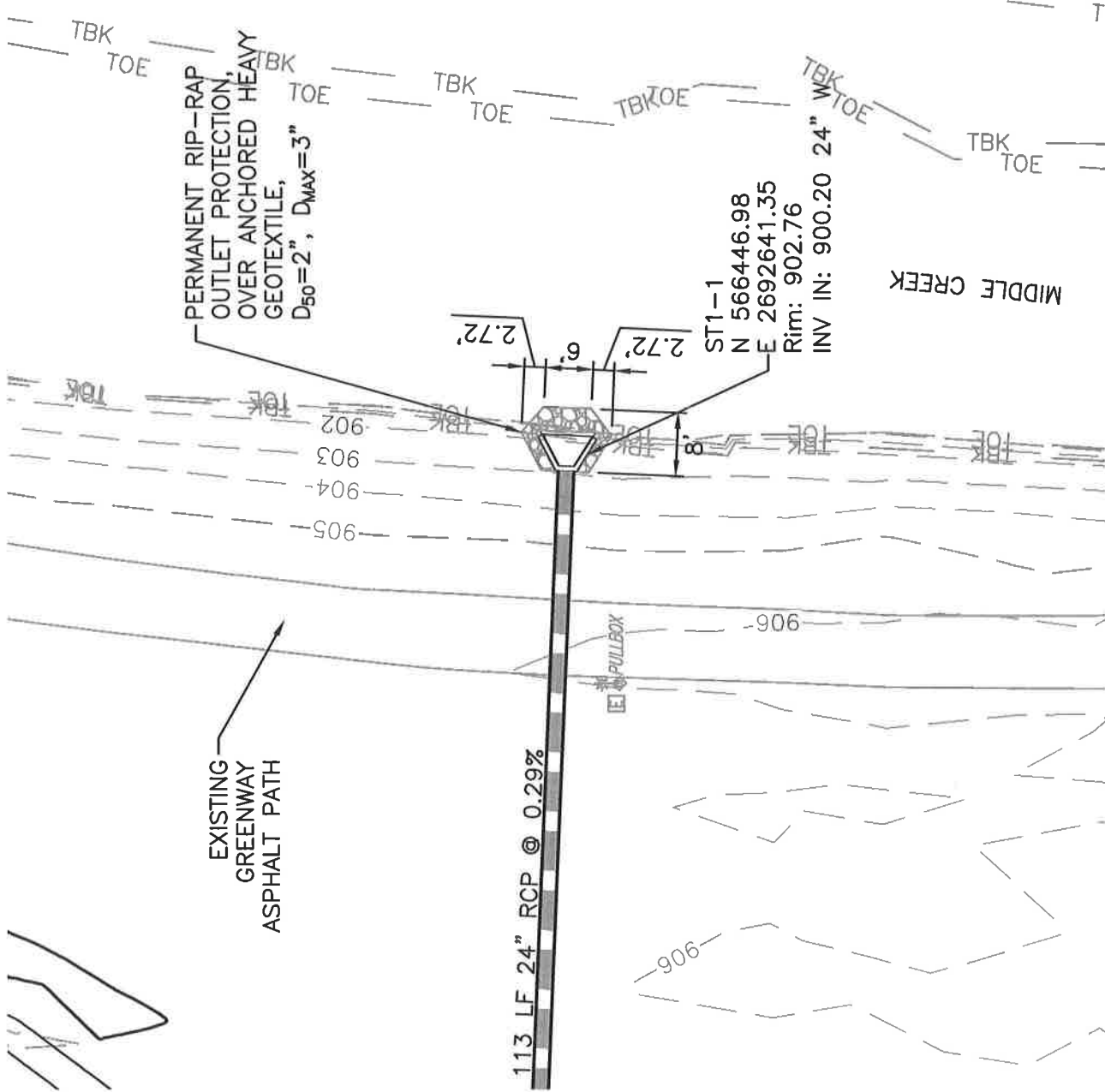
10.18.22  
Date

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Sheet Number



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EXISTING CONDITIONS AT ST1-1

10.18.22  
Date

SEVIERVILLE COMMUNITY CENTER AND POLICE DEPARTMENT ADDITIONS

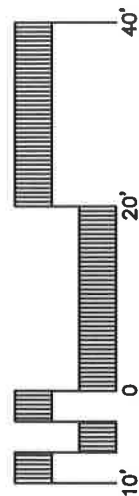
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8.1C  
Sheet Number

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Memphis, TN 38120



NORTH

Date 10.18.22

1"=20'

8.1B  
Sheet Number