

**3 Tees, LLC  
1300 Jan Way  
Kingsport, Tennessee**

**Horse Creek Quarry**

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

**October 16, 2023**

**PREPARED BY:**

**STEPHEN E. MAXFIELD, P. E.  
PROFESSIONAL ENGINEER  
P.O. BOX 1745  
HONAKER, VIRGINIA 24260  
PHONE: (276) 979-6963**

Stephen E. Maxfield, P. E.  
1745 Roman Ridge Road  
Honaker, VA 24260  
Phone: (276) 979-6963  
Email: Coulwood1214@gmail.com

October 16, 2023

Tina Robinson  
Tennessee Department of Environment and Conservation  
Division of Water Resources  
2305 Silverdale Road  
Johnson City, TN 37601-2162

Subject: ARAP Permit For Proposed Limestone Quarry

Dear Ms. Robinson:

On behalf of my client, 3 Tees, LLC, we are requesting a ARAP permit associated with a proposed limestone rock quarry to be located at 3725 Sullivan Gardens Parkway.

3 Tees is proposing to develop a quarry would mine limestone rock, crush and screen the rock for aggregate, and stockpile the aggregate for sale for road construction and other uses. The actual quarry pit and processing facilities will be located approximately 1,200 ft from Sullivan Gardens Parkway. However, access to the location will be across Horse Creek. In addition to a new bridge, 3 Tees proposes cut and fill along Horse Creek to improve the property. All proposed disturbance is above and beyond the Ordinary High Water Mark (OHWM) and outside of the jurisdictional limits of the stream. The proposed modifications along Horse Creek will not result in a change of the flood elevation of the stream.

The application forms, plans and design, and maps and drawings have been included in this submittal. Please review the included plan for compliance.

If you have any questions or require any additional information, please contact us.

Sincerely

A handwritten signature in blue ink, appearing to read 'S.E. Maxfield', is written over a faint circular stamp.

Stephen E. Maxfield, P. E.



**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**

<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>3 Tees, LLC</b>		SOS #:	Status: <b>N/A</b>
Primary Contact/Signatory: <b>Vic Davis</b>		Signatory's Title or Position: <b>Manager</b>	
Mailing Address: <b>1300 Jan Way</b>		City: <b>Kingsport</b>	State: <b>TN</b> Zip: <b>37660</b>
Phone: <b>423-817-7300</b>	Fax:	E-mail: <b>vicd@vdsctn.com</b>	

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

Alternate Contact Name:			
Company:		Title or Position:	
Mailing Address:		City:	State: Zip:
Phone:	Fax:	E-mail:	

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

No Fee       Fee Submitted with Application      Amount Submitted: \$ 500

Current application fee schedules can be found at the Division of Water Resources webpage at:  
<https://www.tn.gov/environment/permit-permits/water-permits/1/aquatic-resource-alteration-permit--arap-.html>  
 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>Horse Creek Quarry (Bridge)</b>		Nearest City, Town or Major Landmark: <b>Kingsport</b>	
Street Address or Location (include zip): <b>3725 Sullivan Gardens Parkway</b>			
County(ies): <b>Sullivan</b>	MS4 Jurisdiction:	Latitude (dd.dddd): <b>36°28'43"</b>	
		Longitude (dd.dddd): <b>82°34'49"</b>	

Resources Proposed for Alteration:     Stream / River     Wetland     Reservoir

Name of Water Resource (for more information, access <http://tdeconline.tn.gov/dwr>): **TN06010102003\_2000**

Brief Project Description (a more detailed description is required under Section 8):  
**Bridge & Floodplain Improvements**

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:

Will the activity require a 401 Water Quality Certification:     Yes     No

If Yes, attach any 401 WQC pre-filing meeting request documentation

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 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

<b>Section 5. Project Schedule</b> (fill in information and check appropriate boxes)	
Proposed start date: June 1, 2024	Estimated end date: Aug 1, 2024
Is any portion of the activity complete now?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> 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"/>
6.2 USGS topographic map indicating the exact location of the project (can be a photographic copy)	<input checked="" type="checkbox"/>	<input type="checkbox"/>
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"/>
6.4 A narrative description of the <b>existing</b> 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 <b>proposed</b> 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"/>
6.6 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"/>
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"/>

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"/>

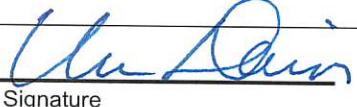
Section 8. Technical Information	Attached Yes	No
8.1 Detailed plans, specifications, blueprints, or legible sketches of present site conditions and the proposed activity. Plans must be 8.5.x 11 inches. Additional larger plans may also be submitted to aid in application review. The detailed plans should be superimposed on existing and new conditions (e.g., stream cross sections where road crossings are proposed)	<input checked="" type="checkbox"/>	<input type="checkbox"/>
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 type="checkbox"/>	<input checked="" type="checkbox"/>
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"/>

Section 9. Water Resources Degradation (degree of proposed impact)
<p>Note that in most cases, activities that exceed the scope of the General Permit limitations are considered greater than <i>de minimis</i> degradation to water quality.</p> <p>Please provide your basis for concluding the proposed activity will cause one of the following levels of water quality degradation:</p> <p><input checked="" type="checkbox"/> a. <i>De minimis</i> degradation, no appreciable permanent loss of resource values</p> <p><input type="checkbox"/> b. Greater than <i>de minimis</i> degradation (if greater than <i>de minimis</i> complete Sections 10-11)</p> <p><i>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:</i>  <a href="https://publications.tnsosfiles.com/rules/0400/0400-40/0400-40.htm">https://publications.tnsosfiles.com/rules/0400/0400-40/0400-40.htm</a></p> <p><i>For more information on specifics on what General Permits can cover, refer to the Natural Resources Unit webpage at:</i>  <a href="https://www.tn.gov/environment/permit-permits/water-permits/1/aquatic-resource-alteration-permit--arap-.html">https://www.tn.gov/environment/permit-permits/water-permits/1/aquatic-resource-alteration-permit--arap-.html</a></p>

## 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 debit/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			
<p>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.</p> <p><b><i>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.</i></b></p>			
Vic Davis	President		10/19/23
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



## **SCOPE**

3 Tees, LLC is proposing to develop a limestone rock quarry to manufacture stone aggregate for construction on property located at 3725 Sullivan Gardens Parkway, Kingsport, Tennessee. The proposed quarry will be located approximately 1,200 ft from Sullivan Gardens Parkway. Access to the proposed quarry site will be via an existing drive/farm road from Sullivan Gardens Parkway. An existing bridge crosses Horse Creek. These facilities will be upgraded suitable for the proposed use. A new bridge will be constructed adjacent to the existing one. The new bridge will be above the FEMA flood elevation and abutments will be constructed above and beyond the ordinary high water mark (OHWM). Additionally, it is proposed to fill areas within the FEMA mapped flood plain elevation of 1,223 ft. However, a new flood plain will be constructed on the south side of Horse Creek. The new flood plan will be excavated above and beyond the OHWM of the stream. The resulting modifications will not result in an increase in the FEMA flood elevation.

## **SITE LOCATION**

3 Tees proposed operation will be located at 3725 Sullivan Gardens Parkway, Kingsport, Tennessee in Sullivan County.

The site is located in the north west section of the Sullivan Gardens United States Geological Services (U.S.G.S) Sullivan Gardens 7.5' Quadrangle at the geographic coordinates of 36°28'43" North Latitude and 82°34'49" West Longitude. The site is located along Horse Creek. Horse Creek is approximately 1,000 ft. from the proposed quarry at an elevation of 1215 ft. Horse Creek is a first order perennial stream that flows north east to the Holston River.

A location map is included with the drawings.

## **STREAM INFORMATION**

Horse Creek is a first order perennial stream that flows north east to the Holston River. In the vicinity of this project, the stream is approximately 30 ft. wide at the bottom and the channel is approximately 5 ft. deep. The OHWM for the stream is approximately 0.5 ft. The stream gradient is 1.4%. The north side of the stream is agriculture and the south side is riparian vegetation.



Existing bridge over Horse Creek



West of bridge



East of Bridge



South side of creek

A new bridge will replace the existing bridge. The new bridge superstructure will be above the flood elevation so as not impede flow during the event. The flood plain in the north side of Horse Creek will be filled to the elevation of 1226 ft. Except for the road fill to the bridge, the fill will be 50 ft. from the stream. The south side of the stream will be excavated above the OHWM to create a new flood plain at elevation 1216 ft. The flood plain will be approximately 5 to 20 ft wide. The modifications are shown on the plan and sections attached to this application. Calculations are included to demonstrate no rise in the flood elevation.

### **WETLAND INFORMATION**

The area of the proposed quarry and along Horse Creek was investigated for the presence of wetlands. There were no indications of wetlands as would be defined by hydrophilic vegetation, hydric soils, and hydrology.

## **PROJECT RATIONALE**

Kingsport and Sullivan County are growing along with the need for infrastructure. Limestone aggregate is a key material necessary for road and site construction and for use in pavement and concrete. This site was deemed a suitable location due to several factors. Geologic drilling of the location revealed suitable deposits of limestone of the quality necessary. The site is located near major highways for access, while also being remotely located away from the public. This makes this site ideal for the proposed use.

## **EROSION PREVENTION AND SEDIMENT CONTROL (EPSC)**

Erosion and sediment control will be provided by a sediment basin and pit drainage (drainage into the quarry pit). These are addressed and designed in detail in the Mining NPDES application submitted for review by the Mining Section of the Department.

## **DETAILED ALTERNATIVES ANALYSIS**

### **Alternative Access**

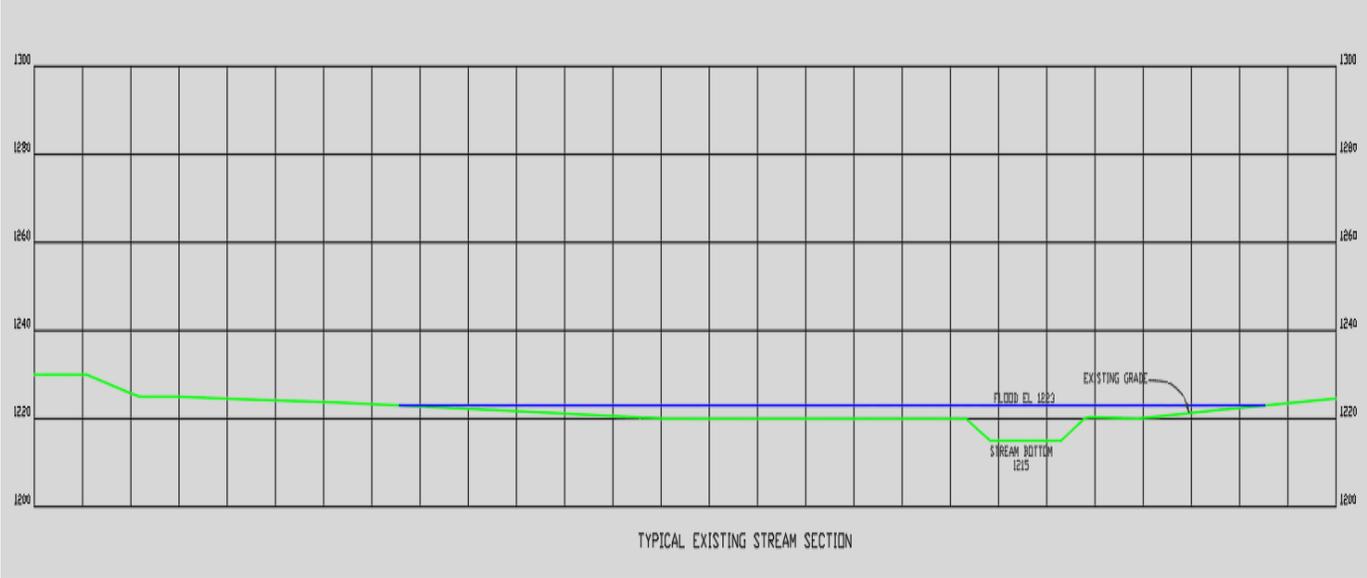
Alternative access to the site was considered. However, these were deemed unfeasible. Alternative access would require acquisition of several properties and extensive road construction. These locations would involve secondary roads in residential areas not suited to large truck traffic. These areas would also involve crossing smaller streams.

### **Alternative Crossing**

Alternative crossings were also considered. The existing bridge was deemed to narrow and not strong enough for the truck traffic. It is also located below the flood elevation. A new bridge with a shorter span or lower deck would impede stream flow during flooding. Culverts would also present the same issues.

The method proposed the best environmentally sound alternative. The construction will avoid stream impacts and will not result in degradation of water quality.

### Horse Creek Zero Rise



**Input Parameters**

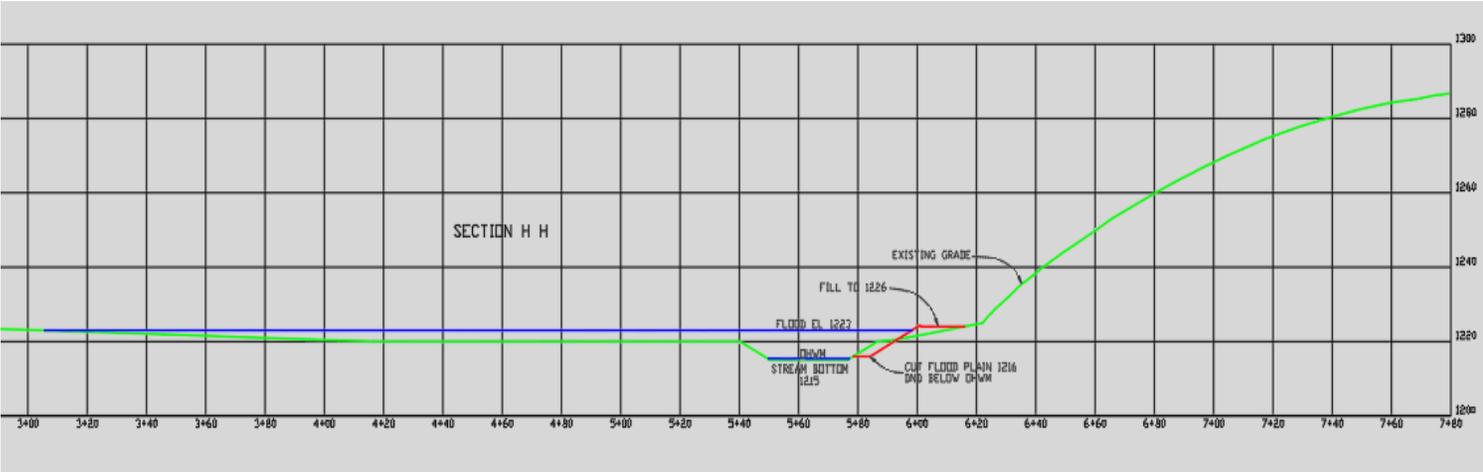
Ditch Slope (ft./ft.)            0.0014  
 Manning Value (n)                0.0350

**Manning's Equation Calculations**

$Q = \frac{1.49}{n} \times R^{2/3} \times S^{1/2} \times A$             Where  $R = A/WP$             and             $V = Q/A$

Flow Area, <b>A</b> , (sq.ft.)	922.00 sq.ft.	Ditch Capacity, <b>Q</b> , (cfs)	2987.24 cfs
Wetted Perimeter, <b>WP</b> , (ft.)	318.00 ft.	Flow Velocity, <b>V</b> , (fps)	3.24 fps
Hydraulic Radius, <b>R</b> , (ft.)	2.90 ft.		

### Horse Creek Zero Rise



**Input Parameters**

Ditch Slope (ft./ft.)            0.0014  
 Manning Value (n)                0.0350

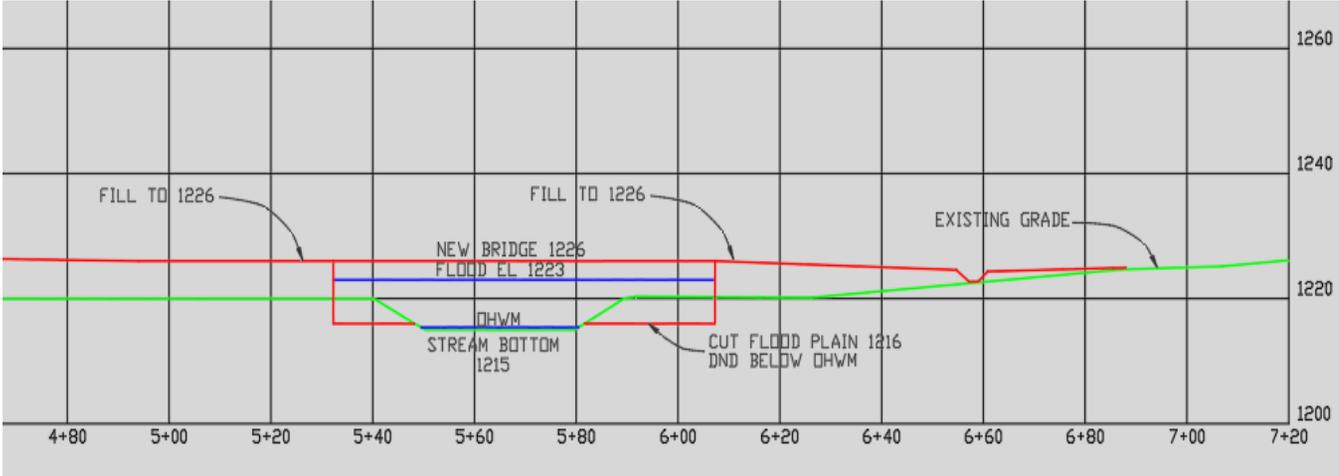
**Manning's Equation Calculations**

$Q = \frac{1.49}{n} \times R^{2/3} \times S^{1/2} \times A$             Where R=A/WP            and    V= Q/A

Flow Area, <b>A</b> , (sq.ft.)	907.00 sq.ft.	Ditch Capacity, <b>Q</b> , (cfs)	3049.03 cfs
Wetted Perimeter, <b>WP</b> , (ft.)	296.00 ft.		
Hydraulic Radius, <b>R</b> , (ft.)	3.06 ft.	Flow Velocity, <b>V</b> , (fps)	3.36 fps

**MODIFIED SECTION FLOW = ORIGINAL SECTION FLOW  
 NO RISE IN FLOOD ELEVATION**

### Horse Creek Zero Rise



**Input Parameters**

Ditch Slope (ft./ft.)            0.0014  
 Manning Value (n)                0.0350

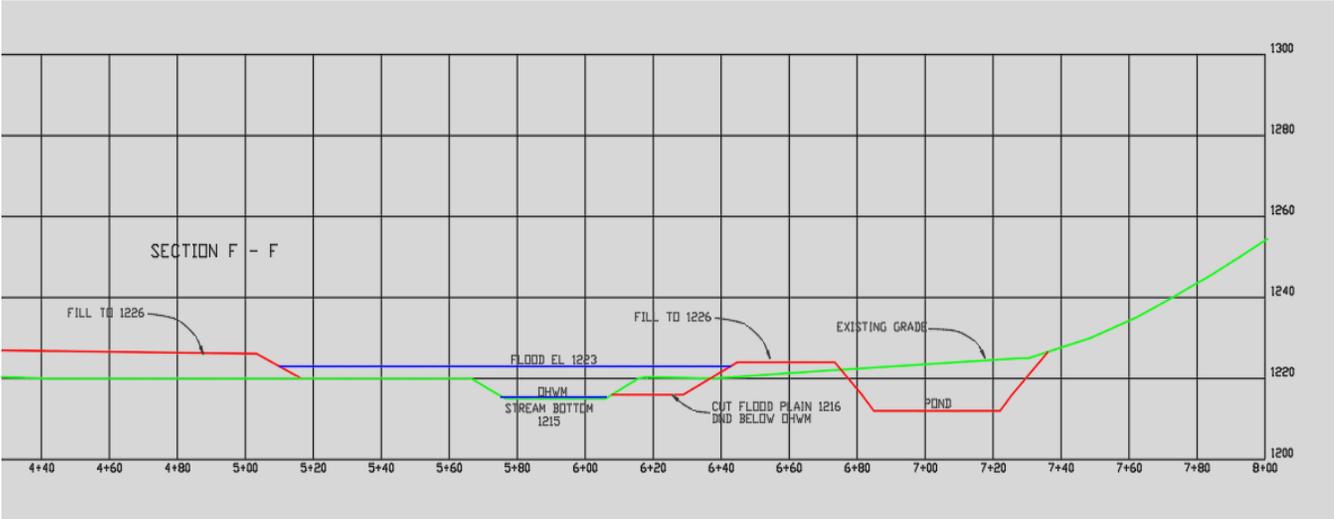
**Manning's Equation Calculations**

$Q = \frac{1.49}{n} \times R^{2/3} \times S^{1/2} \times A$             Where  $R = A/WP$             and             $V = Q/A$

Flow Area, <b>A</b> , (sq.ft.)	556.00 sq.ft.	Ditch Capacity, <b>Q</b> , (cfs)	3005.93 cfs
Wetted Perimeter, <b>WP</b> , (ft.)	89.00 ft.		
Hydraulic Radius, <b>R</b> , (ft.)	6.25 ft.	Flow Velocity, <b>V</b> , (fps)	5.41 fps

**MODIFIED SECTION FLOW = ORIGINAL SECTION FLOW  
 NO RISE IN FLOOD ELEVATION**

### Horse Creek Zero Rise



**Input Parameters**

Ditch Slope (ft./ft.)            0.0014  
 Manning Value (n)                0.0350

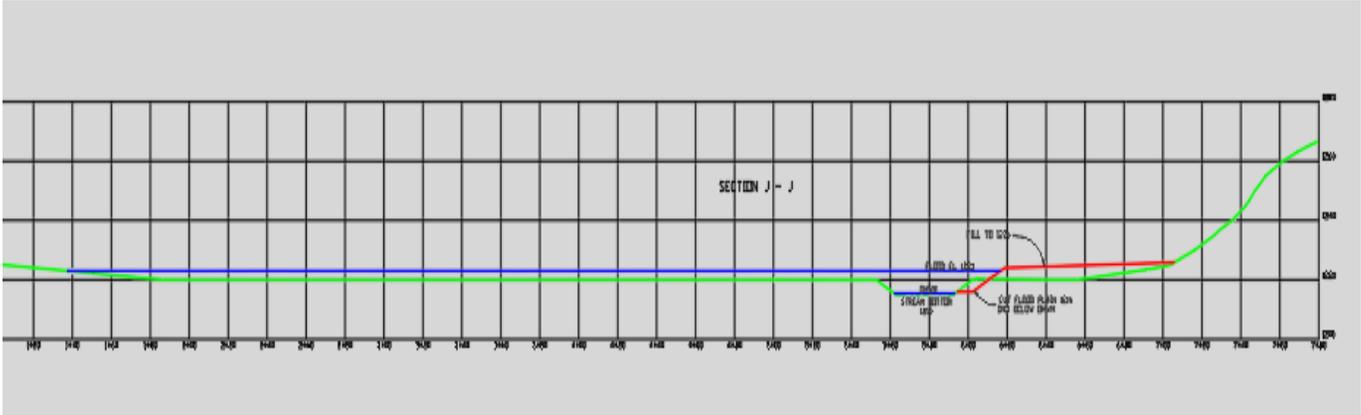
**Manning's Equation Calculations**

$Q = \frac{1.49}{n} \times R^{2/3} \times S^{1/2} \times A$             Where R=A/WP            and    V= Q/A

Flow Area, <b>A</b> , (sq.ft.)	661.00 sq.ft.	Ditch Capacity, <b>Q</b> , (cfs)	3022.65 cfs
Wetted Perimeter, <b>WP</b> , (ft.)	136.00 ft.		
Hydraulic Radius, <b>R</b> , (ft.)	4.86 ft.	Flow Velocity, <b>V</b> , (fps)	4.57 fps

**MODIFIED SECTION FLOW = ORIGINAL SECTION FLOW  
 NO RISE IN FLOOD ELEVATION**

### Horse Creek Zero Rise



**Input Parameters**

Ditch Slope (ft./ft.)            0.0014  
 Manning Value (n)                0.0350

**Manning's Equation Calculations**

$Q = \frac{1.49}{n} \times R^{2/3} \times S^{1/2} \times A$             Where R=A/WP            and    V= Q/A

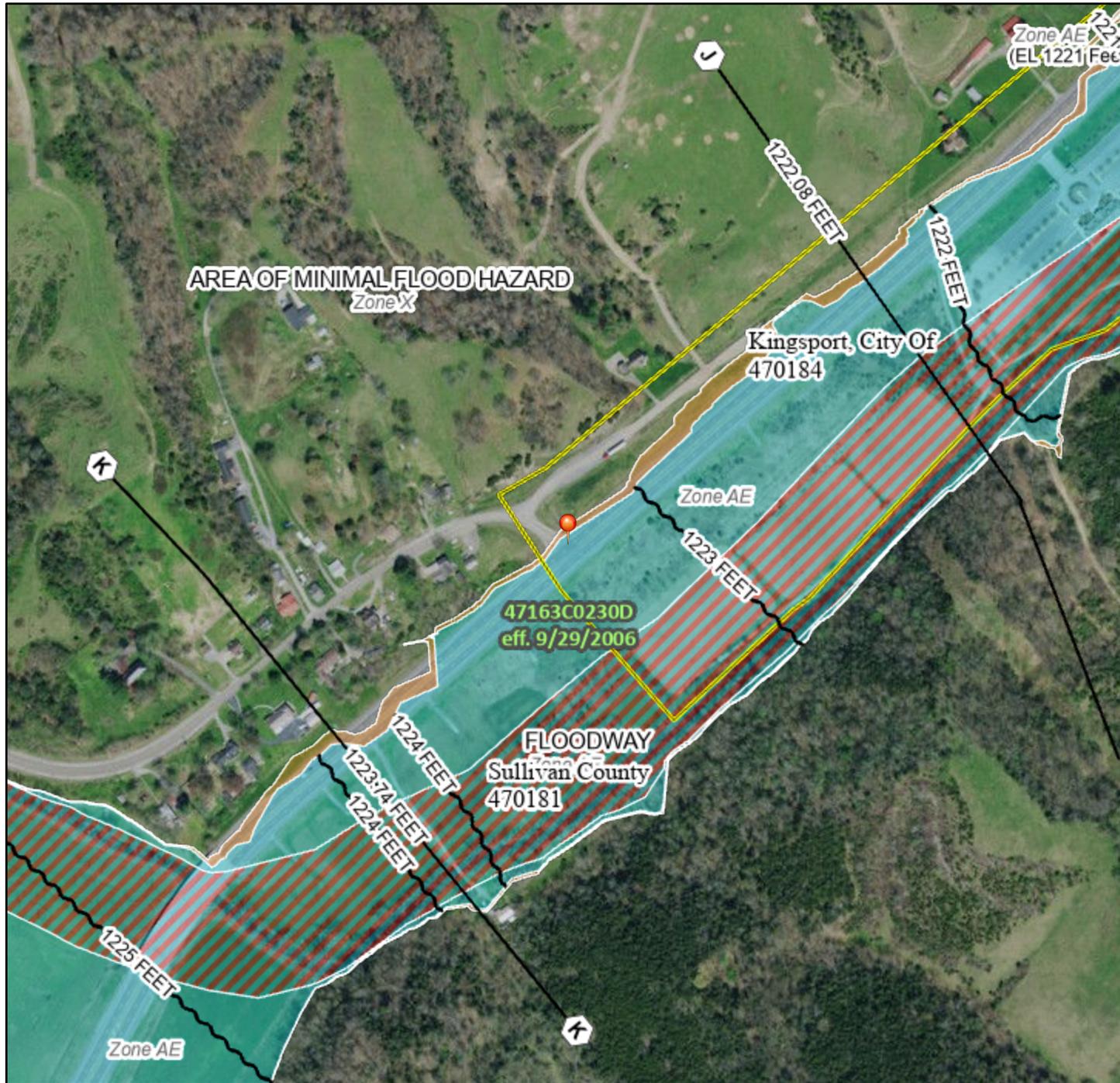
Flow Area, <b>A</b> , (sq.ft.)	1553.00 sq.ft.	Ditch Capacity, <b>Q</b> , (cfs)	5398.49 cfs
Wetted Perimeter, <b>WP</b> , (ft.)	482.00 ft.		
Hydraulic Radius, <b>R</b> , (ft.)	3.22 ft.	Flow Velocity, <b>V</b> , (fps)	3.48 fps

**MODIFIED SECTION FLOW = ORIGINAL SECTION FLOW  
 NO RISE IN FLOOD ELEVATION**

# National Flood Hazard Layer FIRMMette



82°35'8"W 36°29'13"N



1:6,000

82°34'31"W 36°28'44"N

Basemap Imagery Source: USGS National Map 2023

## Legend

SEE FIS REPORT FOR DETAILED LEGEND AND INDEX MAP FOR FIRM PANEL LAYOUT

SPECIAL FLOOD HAZARD AREAS		Without Base Flood Elevation (BFE) Zone A, V, A99
		With BFE or Depth Zone AE, AO, AH, VE, AR
		Regulatory Floodway
OTHER AREAS OF FLOOD HAZARD		0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile Zone X
		Future Conditions 1% Annual Chance Flood Hazard Zone X
		Area with Reduced Flood Risk due to Levee. See Notes. Zone X
		Area with Flood Risk due to Levee Zone D
OTHER AREAS		NO SCREEN Area of Minimal Flood Hazard Zone X
		Effective LOMRs
GENERAL STRUCTURES		Area of Undetermined Flood Hazard Zone D
		Channel, Culvert, or Storm Sewer
OTHER FEATURES		Levee, Dike, or Floodwall
		20.2 Cross Sections with 1% Annual Chance Water Surface Elevation
MAP PANELS		17.5 Coastal Transect
		Base Flood Elevation Line (BFE)
		Limit of Study
		Jurisdiction Boundary
		Coastal Transect Baseline
		Profile Baseline
		Hydrographic Feature
		Digital Data Available
		No Digital Data Available
		Unmapped

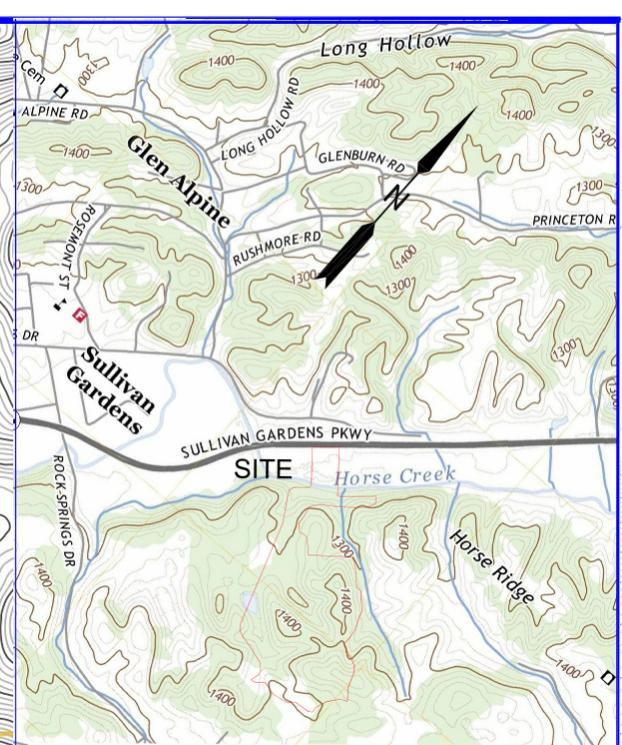
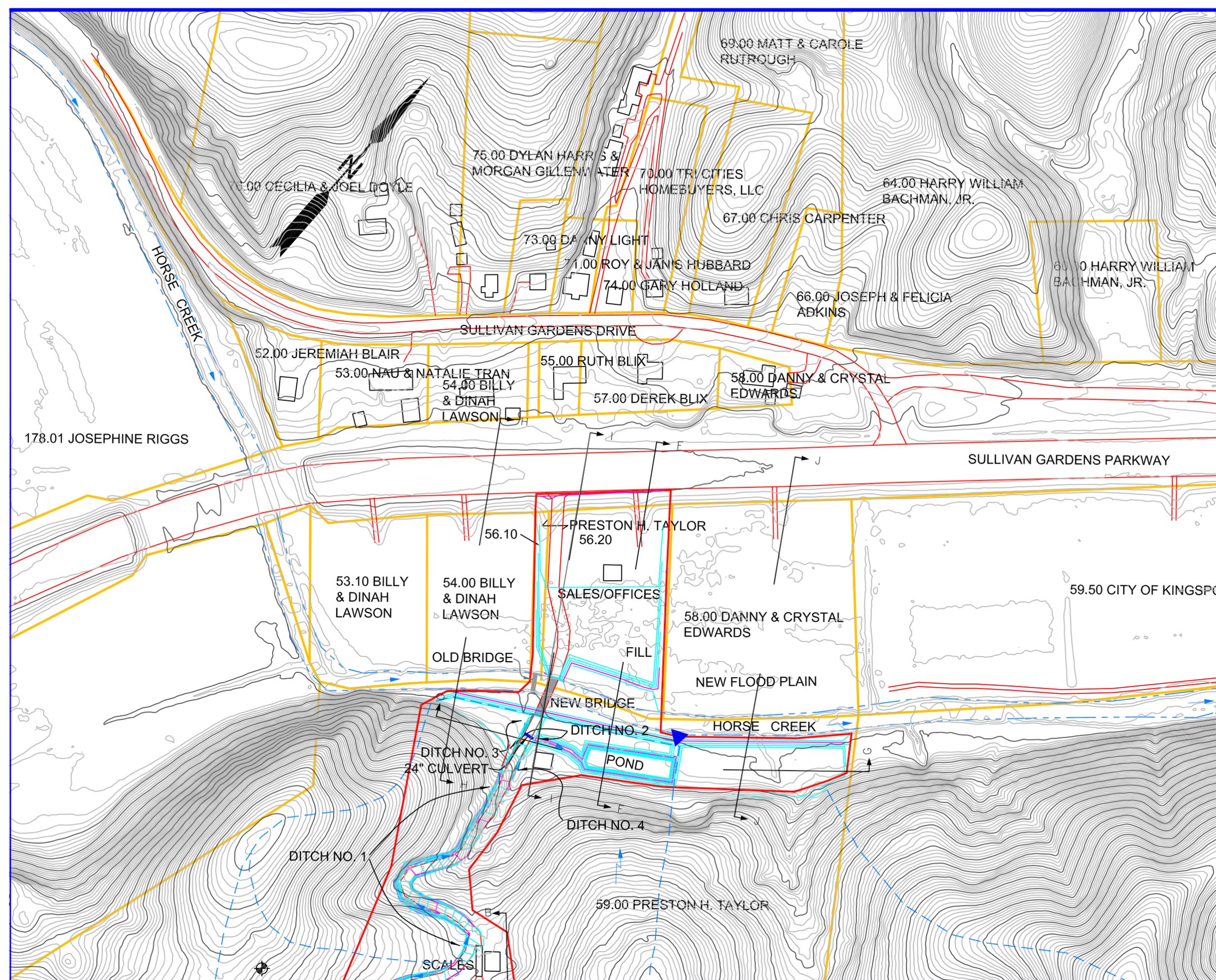


The pin displayed on the map is an approximate point selected by the user and does not represent an authoritative property location.

This map complies with FEMA's standards for the use of digital flood maps if it is not void as described below. The basemap shown complies with FEMA's basemap accuracy standards

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on **8/3/2023 at 11:53 AM** and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

This map image is void if the one or more of the following map elements do not appear: basemap imagery, flood zone labels, legend, scale bar, map creation date, community identifiers, FIRM panel number, and FIRM effective date. Map images for unmapped and unmodernized areas cannot be used for regulatory purposes.



LOCATION MAP  
SULLIVAN GARDENS 7.5' QUADRANGLE  
MAP  
1" = 2,000'

The property lines represented on this map are compiled from information maintained by the local county Assessor's office and are a best-fit visualization of how all the properties in a county relate to one another. The property lines are determined by examining detailed property descriptions on deeds and by using surveys created by a licensed surveyor but are not conclusive evidence of property ownership in any court of law. This map shall not represent an actual land survey and shall not be used to divide or transfer property.

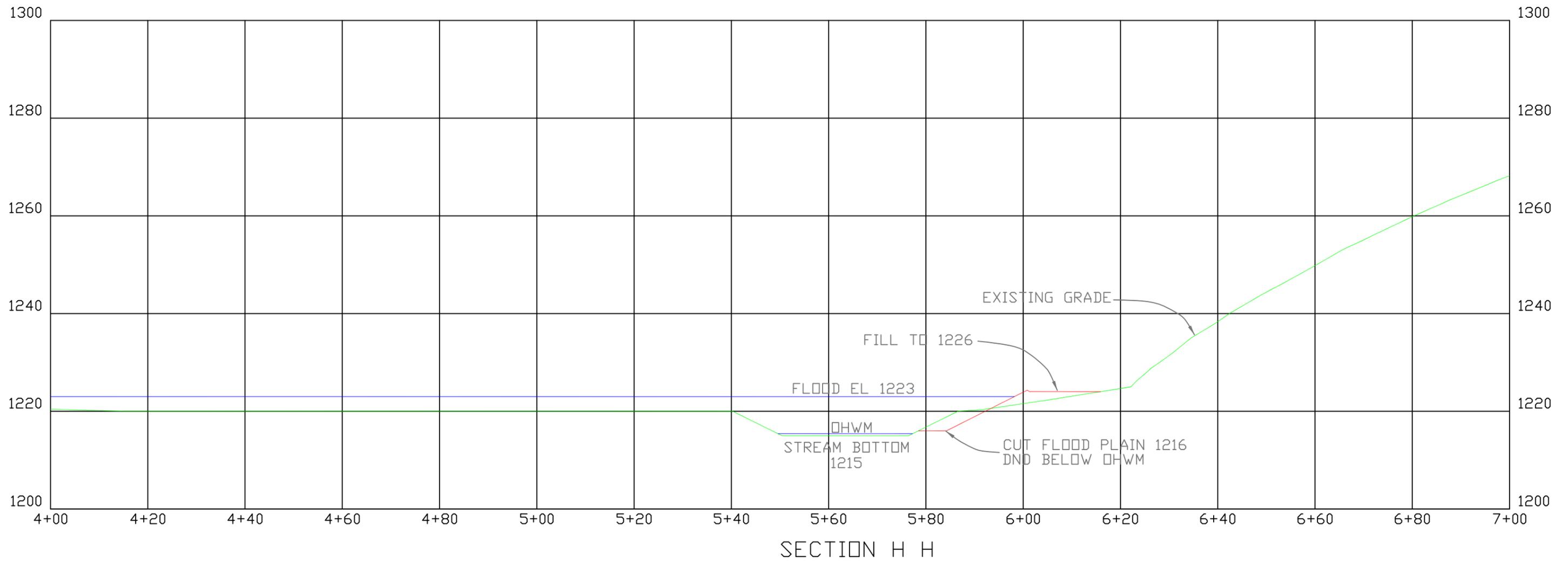
ENGINEERING BY:  
STEPHEN E. MAXFIELD  
1745 ROMANS RIDGE ROAD  
HONAKER, VA 24260



**3 Tees, LLC**  
1300 Jan Way  
Kingsport, TN 37660

HORSE CREEK QUARRY  
NEW BRIDGE & ZERO RISE PLAN

SCALE: 1" = 200'

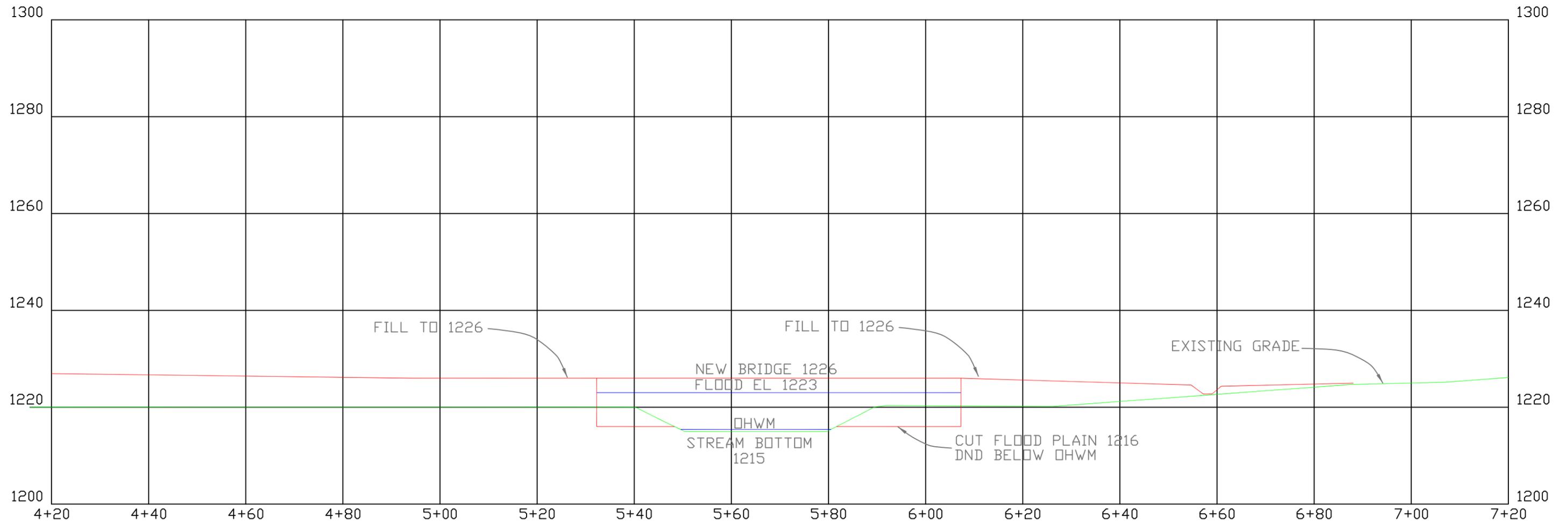


ENGINEERING BY:  
 STEPHEN E. MAXFIELD  
 1745 ROMANS RIDGE ROAD  
 HONAKER, VA 24260



**3 Tees, LLC**  
**1300 Jan Way**  
**Kingsport, TN 37660**

HORSE CREEK QUARRY  
 SECTIONS H - H  
 SCALE: 1" = 20'



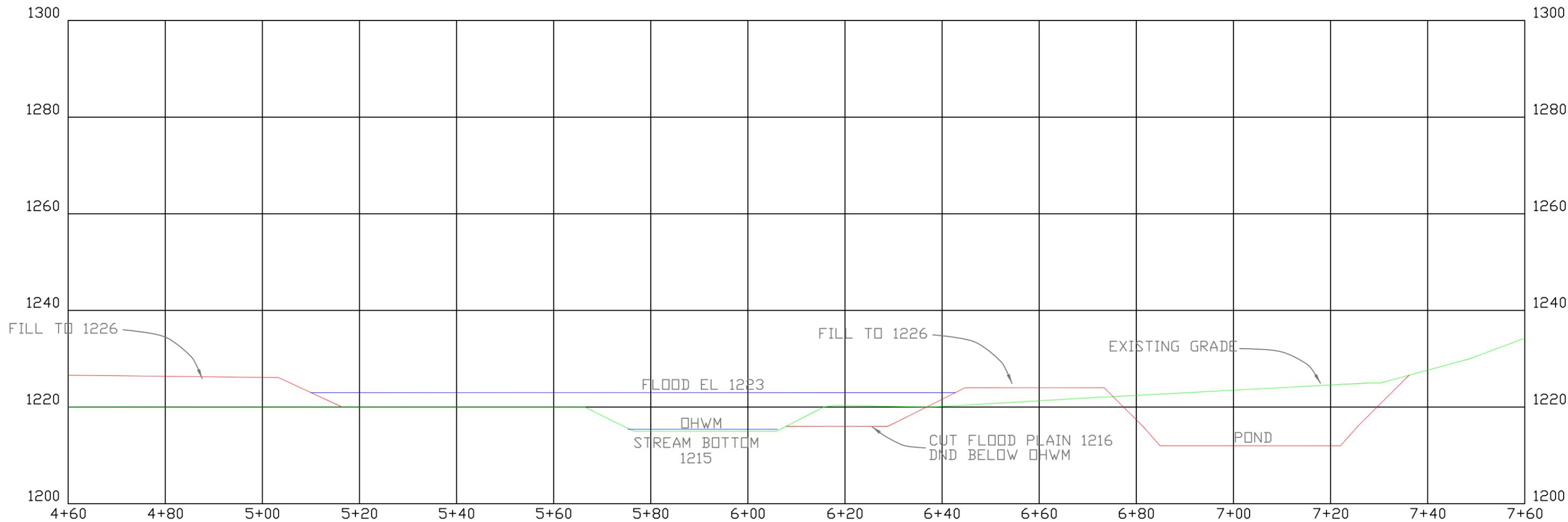
SECTION I - I

ENGINEERING BY:  
 STEPHEN E. MAXFIELD  
 1745 ROMANS RIDGE ROAD  
 HONAKER, VA 24260



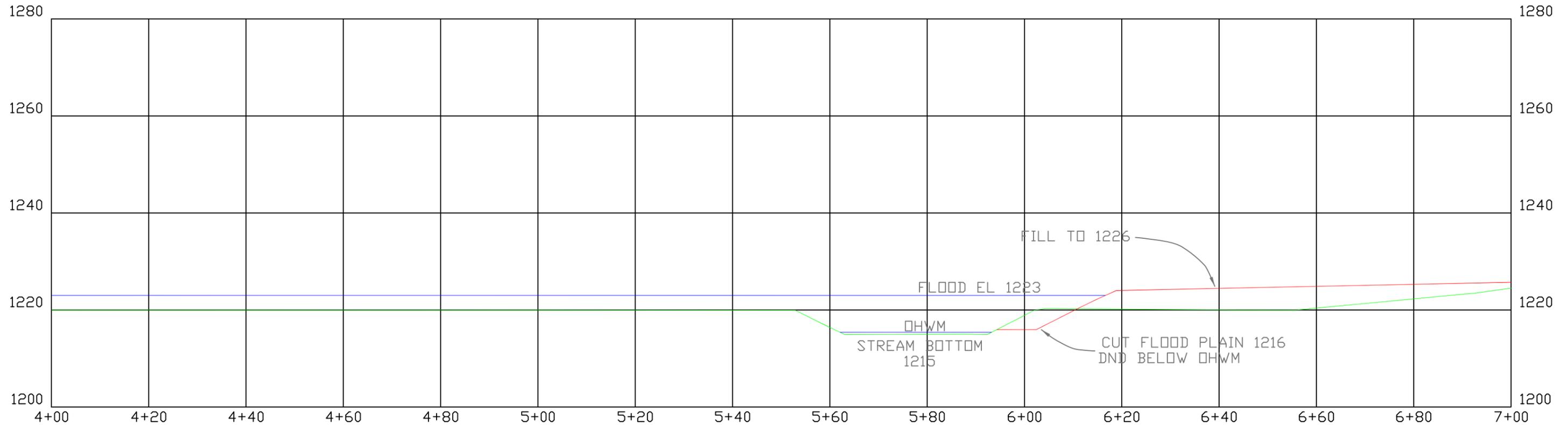
**3 Tees, LLC**  
 1300 Jan Way  
 Kingsport, TN 37660

HORSE CREEK QUARRY  
 SECTIONS I - I  
 SCALE: 1" = 20'



SECTION F - F

<p>ENGINEERING BY:                    STEPHEN E. MAXFIELD                  1745 ROMANS RIDGE ROAD                  HONAKER, VA 24260</p>
<p><b>3 Tees, LLC</b>                  1300 Jan Way                  Kingsport, TN 37660</p>
<p>HORSE CREEK QUARRY                  SECTIONS F - F                  SCALE: 1" = 20'</p>



SECTION J - J

ENGINEERING BY:   
 STEPHEN E. MAXFIELD  
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HORSE CREEK QUARRY  
 SECTIONS J - J

SCALE: 1" = 20'