

JOINT
PUBLIC NOTICE

CHARLESTON DISTRICT, CORPS OF ENGINEERS

1835 Assembly Street Room 865 B1

Columbia, South Carolina 29201

and

THE S.C. DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL

Water Quality Certification and Wetlands Section

2600 Bull Street

Columbia, South Carolina 29201

REGULATORY DIVISION

Refer to: P/N SAC-2012-00830 MODIFICATION

June 9, 2020

Pursuant to Sections 401 and 404 of the Clean Water Act (33 U.S.C. 1341), an application has been submitted to the Department of the Army and the S.C. Department of Health and Environmental Control by

**Mr. Andrew Weddle
W-REI
105 MacGregor Drive
Stamford, Connecticut 06902**

for a permit modification to place fill material in a tributary to create an upland area for residential and retail development, replace an undersized culvert, conduct flood remediation activities within a stream, construct a permanent maintenance road along and within a portion of the stream proposed for flood remediation, and relocate utility lines and outfalls in

Rocky Branch and an unnamed tributary to Rocky Branch

at a location on South Assembly Street west of Ferguson Street and north of Bluff Road, Columbia, Richland County, South Carolina (Latitude: 33.9823 °, Longitude: -81.0287 °), Southwest Columbia Quad.

In order to give all interested parties an opportunity to express their views

N O T I C E

is hereby given that written statements regarding the proposed work will be received by the **Corps** until

15 Days from the Date of this Notice,

and **SCDHEC** will receive written statements regarding the proposed work until

30 Days from the Date of this Notice

from those interested in the activity and whose interests may be affected by the proposed work.

PLEASE NOTE: The proposed project is a modification to a previously issued Department of Army (DA) permit number SAC-2012-00830, which was authorized on December 7, 2017. No

work in waters of the U.S. has been completed under the previous authorization. The previous permit was transferred to a new development team, which has proposed modifications that are the subject of this public notice. The original permit authorized fill impacts to 999 linear feet of stream and 0.18 acres of wetlands and the impoundment of 77 linear feet of stream and 0.125 acres of wetlands for construction of a residential and retail development that included a grocery store. The modified project as proposed includes a reduced fill pad for the development portion of the project and adds downstream flood remediation activities. The project as currently proposed would include rerouting a currently concrete-lined unnamed tributary to Rocky Branch into a newly constructed, natural-bottomed channel that would tie into Rocky Branch, to allow for the construction of a residential and retail mixed use development that does not include the grocery store. The project as currently proposed would also include downstream activities intended to reduce flooding from Rocky Branch during storm events, including adding an overflow culvert at a railroad embankment, replacing an undersized culvert at Olympia Avenue, altering stream morphology in a downstream portion of Rocky Branch for flood remediation, constructing a permanent maintenance road along and within a portion of Rocky Branch proposed for morphological alterations for flood remediation, and relocating utility lines and outfalls. The current proposal avoids previously authorized impacts to 0.305 acres of wetlands and 71 linear feet (0.01 acre) of stream. The updated Permittee-Responsible Mitigation Plan currently proposed to replace the previously approved plan no longer proposes to preserve and buffer wetlands. Only comments received in response to this current public notice will be considered in our evaluation of this modification request.

The proposed work consists of rerouting a currently concrete-lined tributary into a new, natural-bottomed channel for construction of a residential and retail mixed use development, and impacts including culvert upsizing, morphological alterations for flood remediation, and placement of rip rap for stream bank stabilization, within downstream portions of Rocky Branch for flood remediation. Total currently proposed impacts include 2,118 linear feet (1.409 acres) of stream and no wetland impacts. In detail, the applicant proposes to place fill material in 1,068 linear feet (0.396 acre) of a currently concrete-lined, unnamed tributary to Rocky Branch for retail and residential development, which would be rerouted on site into 930 linear feet of newly constructed natural-bottomed stream and would include one culvert crossing and one pedestrian bridge crossing. The project would also add a 72" culvert at the railroad grade immediately upstream of Olympia Park to reduce flooding, replace an 11.4' x 14' arch culvert with triple 10' x10' box culverts to reduce flooding and to allow for a pedestrian walkway as part of a future greenway project in 100 linear feet (0.032 acre) of Rocky Branch at Olympia Avenue, and conduct morphological alterations for flood remediation within 950 linear feet (0.981 acre) of Rocky Branch downstream of Olympia Avenue through channel excavation, removal of restrictions that include an abandoned railroad trestle and a retaining wall, and armoring stream banks with rip rap. Additionally, a permanent maintenance access road is proposed within a portion of Rocky Branch proposed for flood remediation, and existing utility lines and outfalls would be relocated within Rocky Branch, as shown on the attached plans. Excess soil excavated from Rocky Branch is proposed to be permanently disposed as fill dirt at the retail and residential development site. According to the applicant, the placement of fill material in the unnamed tributary to Rocky Branch for construction of the proposed residential and retail development would result in increased peak discharges downstream of Olympia Railroad, so the flood remediation work downstream in Rocky Branch is proposed as part of the overall project. Avoidance and minimization measures include avoiding previously authorized impacts to 0.305 acre of wetlands and 71 linear feet (0.01 acre) of stream that are no longer proposed, relocating/constructing 930 linear feet of new stream channel on-site with natural bottom material, and limiting the duration of temporary stream crossings to less than 90 days. The applicant has proposed to mitigate for impacts to waters of the United States by

performing stream restoration activities that include benching stream banks, placing instream structures, and planting riparian vegetation in 947 linear feet (1.087 acre) of Rocky Branch within Olympia Park to alleviate erosional stress and near bank stress, provide grade control, increase stream bed diversity, and stabilize stream banks. Additionally, the compensatory mitigation plan includes the preservation of 1,240 linear feet (0.427 acre) of Griffins Creek with 300 foot wide riparian buffers. The District Engineer has not reached a decision as to the proposed plan's compliance with current regulations and the Charleston District's Guidelines for Preparing a Compensatory Mitigation Plan. The Permittee-Responsible Mitigation Plan is available upon request. The project purpose is to construct a residential and retail development to serve the downtown area of Columbia.

NOTE: This public notice and associated plans are available on the Corps' website at:
<http://www.sac.usace.army.mil/Missions/Regulatory/PublicNotices>.

The District Engineer has concluded that the discharges associated with this project, both direct and indirect, should be reviewed by the South Carolina Department of Health and Environmental Control in accordance with provisions of Section 401 of the Clean Water Act. As such, this notice constitutes a request, on behalf of the applicant, for certification that this project will comply with applicable effluent limitations and water quality standards. This activity may also require evaluation for compliance with the S. C. Construction in Navigable Waters Permit Program. State review, permitting and certification is conducted by the S. C. Department of Health and Environmental Control. The District Engineer will not process this application to a conclusion until such certifications are received. The applicant is hereby advised that supplemental information may be required by the State to facilitate the review.

This notice initiates the Essential Fish Habitat (EFH) consultation requirements of the Magnuson-Stevens Fishery Conservation and Management Act. Implementation of the proposed project would impact 1.393 acres of freshwater habitat well inland of estuarine substrates and emergent wetlands utilized by various life stages of species comprising the shrimp, and snapper-grouper management complexes. The District Engineer's initial determination is that the proposed action would not have a substantial individual or cumulative adverse impact on EFH or fisheries managed by the South Atlantic Fishery Management Council and the National Marine Fisheries Service (NMFS). The District Engineer's final determination relative to project impacts and the need for mitigation measures is subject to review by and coordination with the NMFS.

Pursuant to the Section 7 of the Endangered Species Act of 1973 (as amended), the Corps has reviewed the project area, examined all information provided by the applicant, and the District Engineer has determined, based on the most recently available information that the project will have no effect on any Federally endangered, threatened, or proposed species and will not result in the destruction or adverse modification of designated or proposed critical habitat. This public notice serves as a request to the U.S. Fish and Wildlife Service and the National Marine Fisheries Service for any additional information they may have on whether any listed or proposed endangered or threatened species or designated or proposed critical habitat may be present in the area which would be affected by the activity.

Pursuant to Section 106 of the National Historic Preservation Act (NHPA), this public notice also constitutes a request to Indian Tribes to notify the District Engineer of any historic properties of religious and cultural significance to them that may be affected by the proposed undertaking.

In accordance with Section 106 of the NHPA, the District Engineer has consulted South Carolina ArchSite (GIS), for the presence or absence of historic properties (as defined in 36 C.F.R. 800.16)(l)(1)), and has initially determined that historic properties, are present; moreover, these historic properties may be affected by the undertaking. This public notice serves to notify the State Historic Preservation Office that the Corps plans to initiate Section 106 consultation on these historic properties. Individuals or groups who would like to be consulting parties for the purposes of the NHPA should make such a request to the Corps in writing within 30 days of this public notice. To ensure that other historic properties that the District Engineer is not aware of are not overlooked, this public notice also serves as a request to the State Historic Preservation Office and other interested parties to provide any information they may have with regard to historic properties.

The District Engineer's final eligibility and effect determination will be based upon coordination with the SHPO and/or THPO, as appropriate and required and with full consideration given to the proposed undertaking's potential direct and indirect effects on historic properties within the Corps-identified permit area.

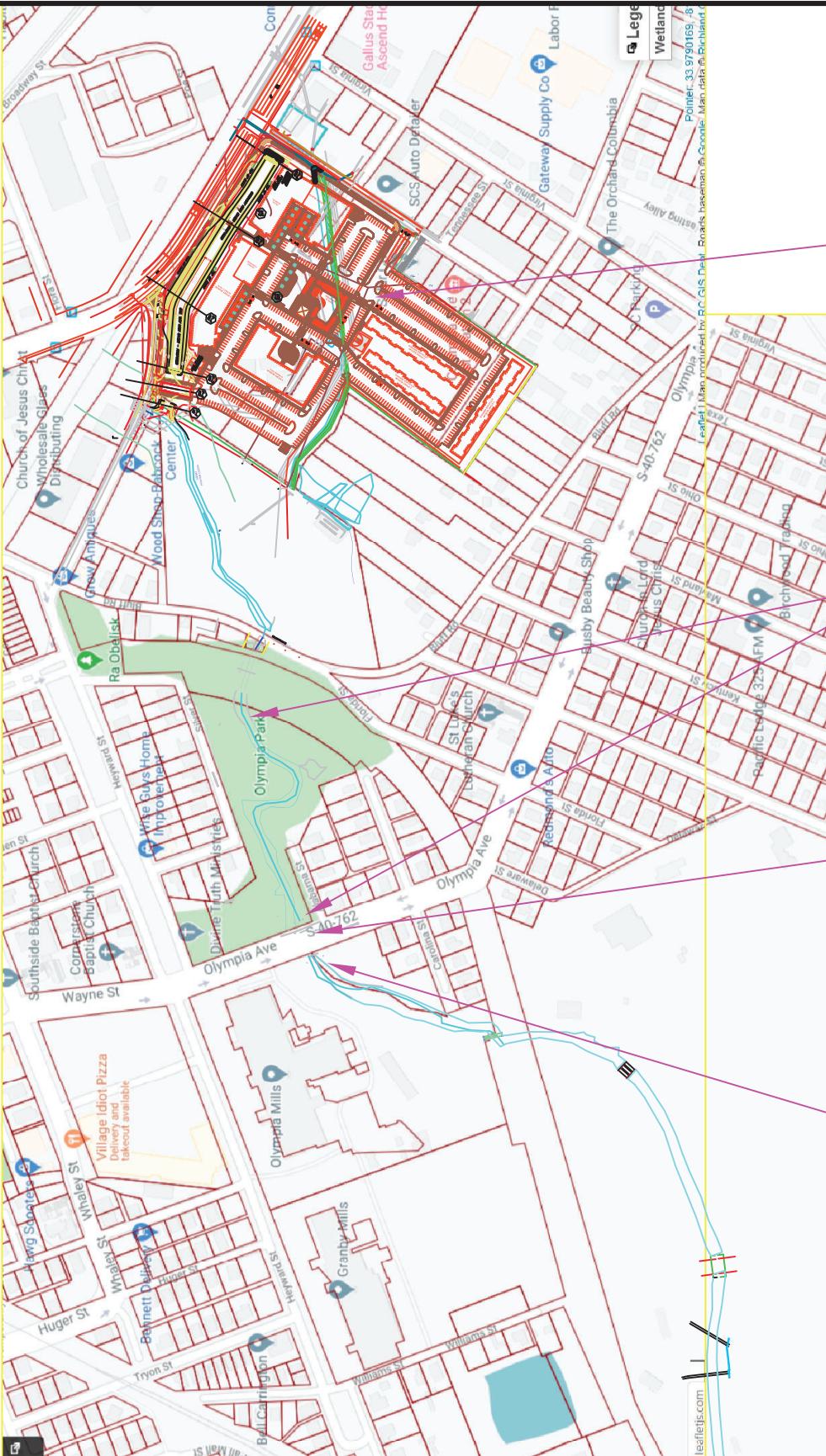
Any person may request, in writing, within the comment period specified in this notice, that a public hearing be held to consider this application. Requests for a public hearing shall state, with particularity, the reasons for holding a public hearing.

The decision whether to issue a permit will be based on an evaluation of the probable impact including cumulative impacts of the activity on the public interest and will include application of the guidelines promulgated by the Administrator, Environmental Protection Agency (EPA), under authority of Section 404(b) of the Clean Water Act and, as appropriate. That decision will reflect the national concern for both protection and utilization of important resources. The benefit which reasonably may be expected to accrue from the project must be balanced against its reasonably foreseeable detriments. All factors which may be relevant to the project will be considered including the cumulative effects thereof; among those are conservation, economics, aesthetics, general environmental concerns, wetlands, historic properties, fish and wildlife values, flood hazards, flood plain values, land use, navigation, shoreline erosion and accretion, recreation, water supply and conservation, water quality, energy needs, safety, food and fiber production and, in general, the needs and welfare of the people. A permit will be granted unless the District Engineer determines that it would be contrary to the public interest. In cases of conflicting property rights, the Corps cannot undertake to adjudicate rival claims.

The Corps is soliciting comments from the public; Federal, state, and local agencies and officials; Indian Tribes; and other interested parties in order to consider and evaluate the impacts of this activity. Any comments received will be considered by the Corps to determine whether to issue, modify, condition or deny a permit for this project. To make this decision, comments are used to assess impacts on endangered species, historic properties, water quality, general environmental effects, and the other public interest factors listed above. Comments are used in the preparation of an Environmental Assessment and/or an Environmental Impact Statement pursuant to the National Environmental Policy Act. Comments are also used to determine the need for a public hearing and to determine the overall public interest of the activity. **Please submit comments in writing, identifying the project of interest by public notice number, to the following address:**

**U.S. Army Corps of Engineers
ATTN: REGULATORY DIVISION
1835 Assembly Street Room 865 B1
Columbia, South Carolina 29201**

If there are any questions concerning this public notice, please contact Amy Cappellino, Project Manager, at (803) 253-3992, or by email at Amy.e.Cappellino@usace.army.mil.



Olympia Ave.
Culvert Replacement

Ballpark Site

Stream Restoration
Olympia Park

SHEET NO.

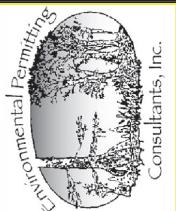
10

OVERVIEW
ASSEMBLY STREET
W-REI
RICHLAND COUNTY

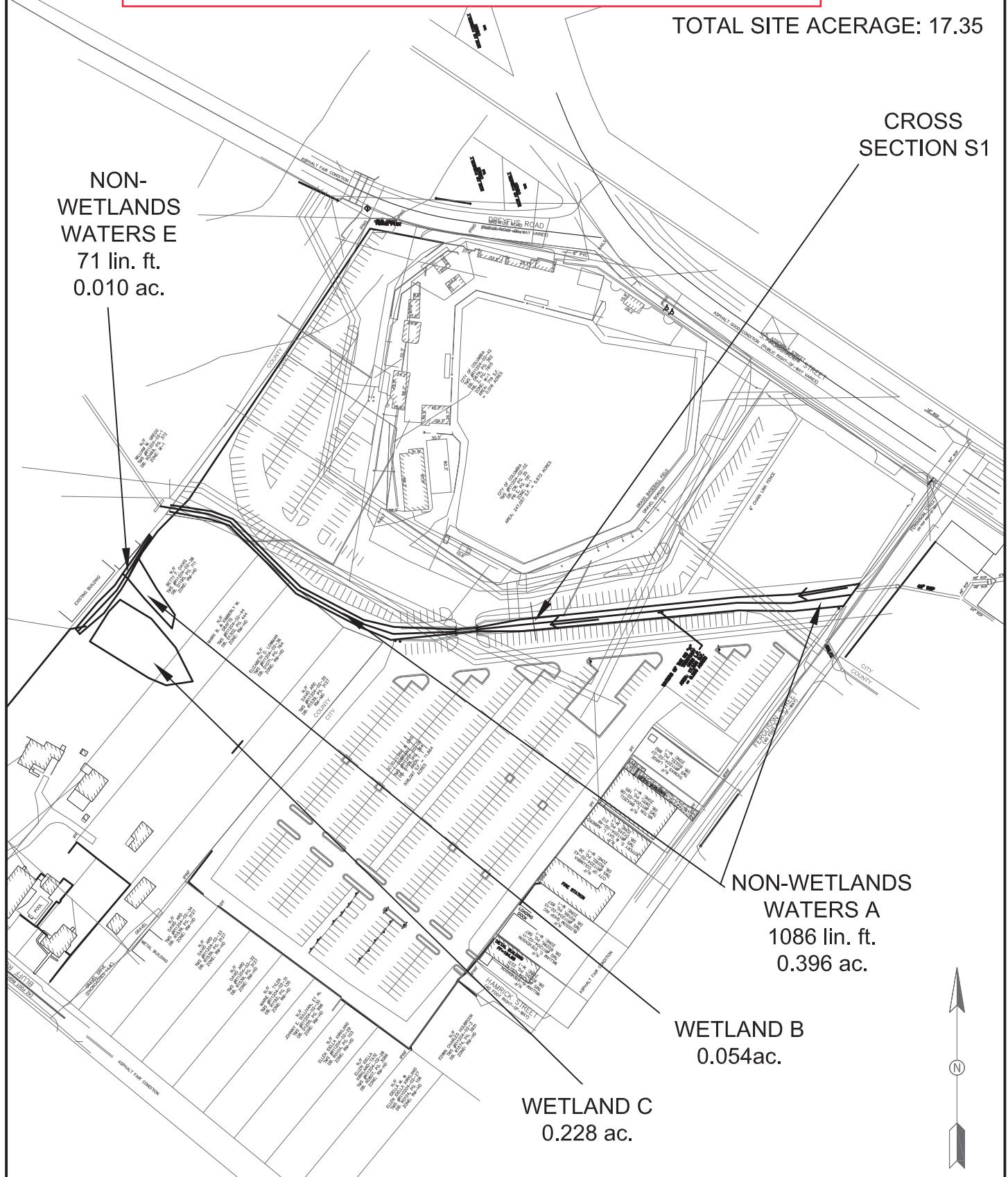
GRAPHIC SCALE
1 inch = nts feet

Post Office Box 3744 Greenville, SC 29608 Phone: (864) 227-3240 Fax: (864) 225-9299	DRAWN BY: LHB DATE: 30april2020 EPC PROJECT NO.: 1694
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2012-00820-6F

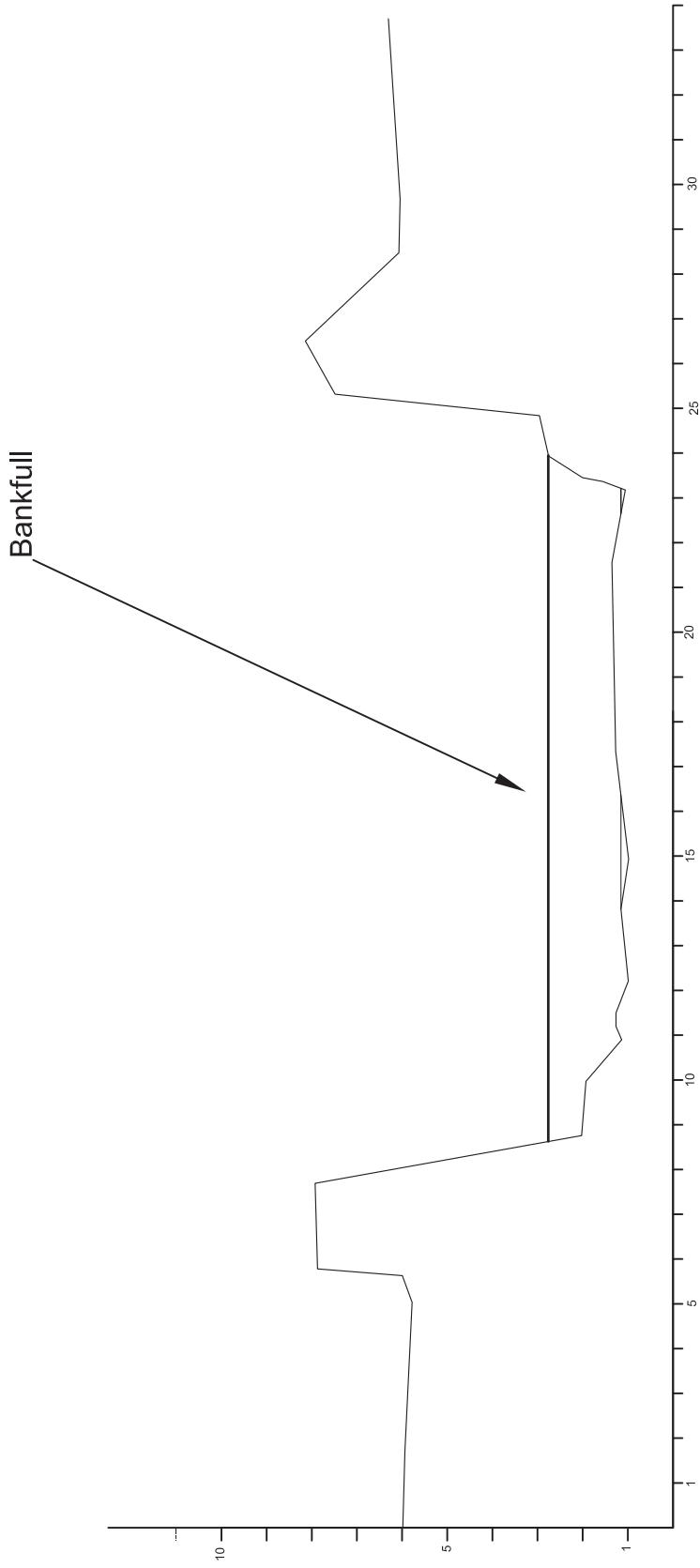


TOTAL SITE ACERAGE: 17.35

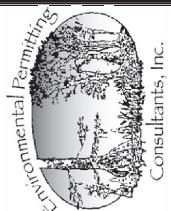


SHEET NO.

2

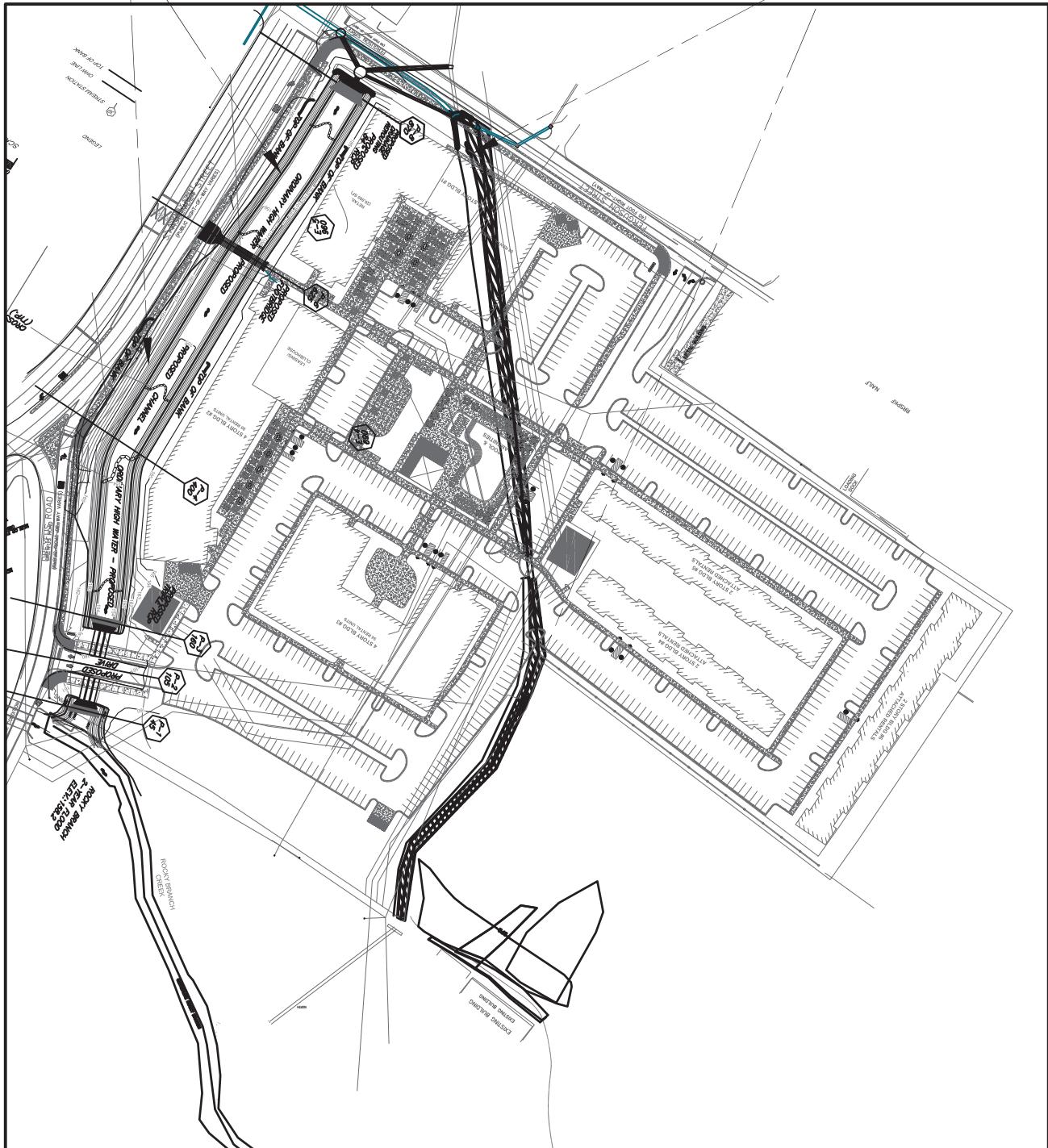


GRAPHIC SCALE	S1 EXISTING CROSS SECTION	SHEET NO.
1 inch = feet	ASSEMBLY STREET	5
DRAWN BY: LHB DATE: 27feb2020	W-REI	
Post Office Box 3744 Greenville, SC 29608 Phone: (864) 211-3040 Fax: (864) 235-9299	RICHLAND COUNTY	
EPC PROJECT NO.: 1694 2012-00820-6F		

 Environmental Permitting
Consultants, Inc.

Relocated Channel

W-REI
TOTAL IMPACTS
STREAM: 1068 l.f.



W-REI OVERVIEW
ASSEMBLY STREET
W-REI
RICHLAND COUNTY

SHEET NO.

3

GRAPHIC SCALE	DRAWN BY:	LHB
1 inch = 200 feet		
	DATE: 27/6/2020	
	EPC PROJECT NO.: 1094	
	Post Office Box 3744 Greenville, SC 29608 Phone: (864) 271-3040 Fax: (864) 235-5299	

SAC-2012-00830 MODIFICATION Ballpark Assembly St, May 21, 2020, Sheet 5 of 43

ROAD
CROSSING
Triple 72" RCP

Relocated Channel
930 lin. ft.
Riprap: 75 cy
Rock vanes, J-hook: 65 cy
Fill for crossing: 720 cy

CROSS VANES

J HOOK

GRAPHIC SCALE

$$1 \text{ inch} = 100 \text{ feet}$$

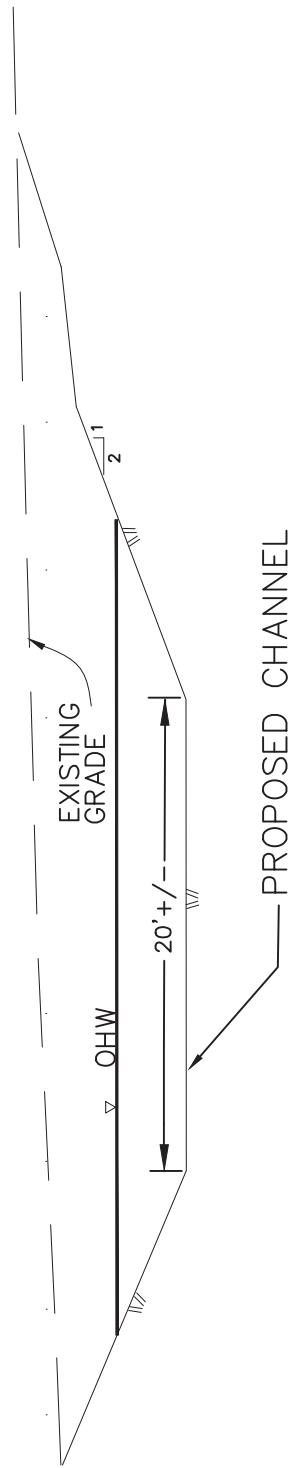
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Greenville SC 29608

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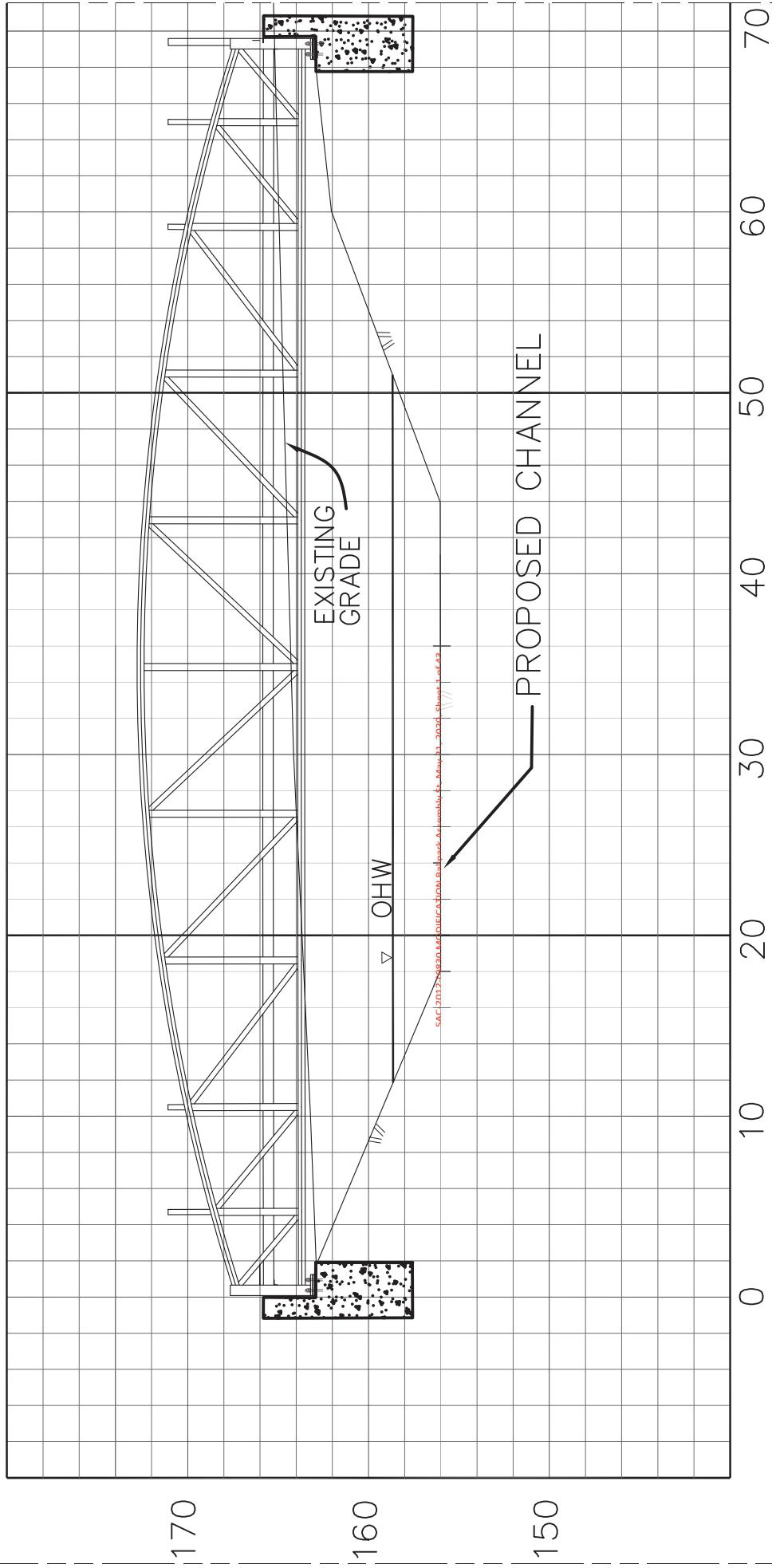
4

RICHLAND COUNTY

2012-00820-6F

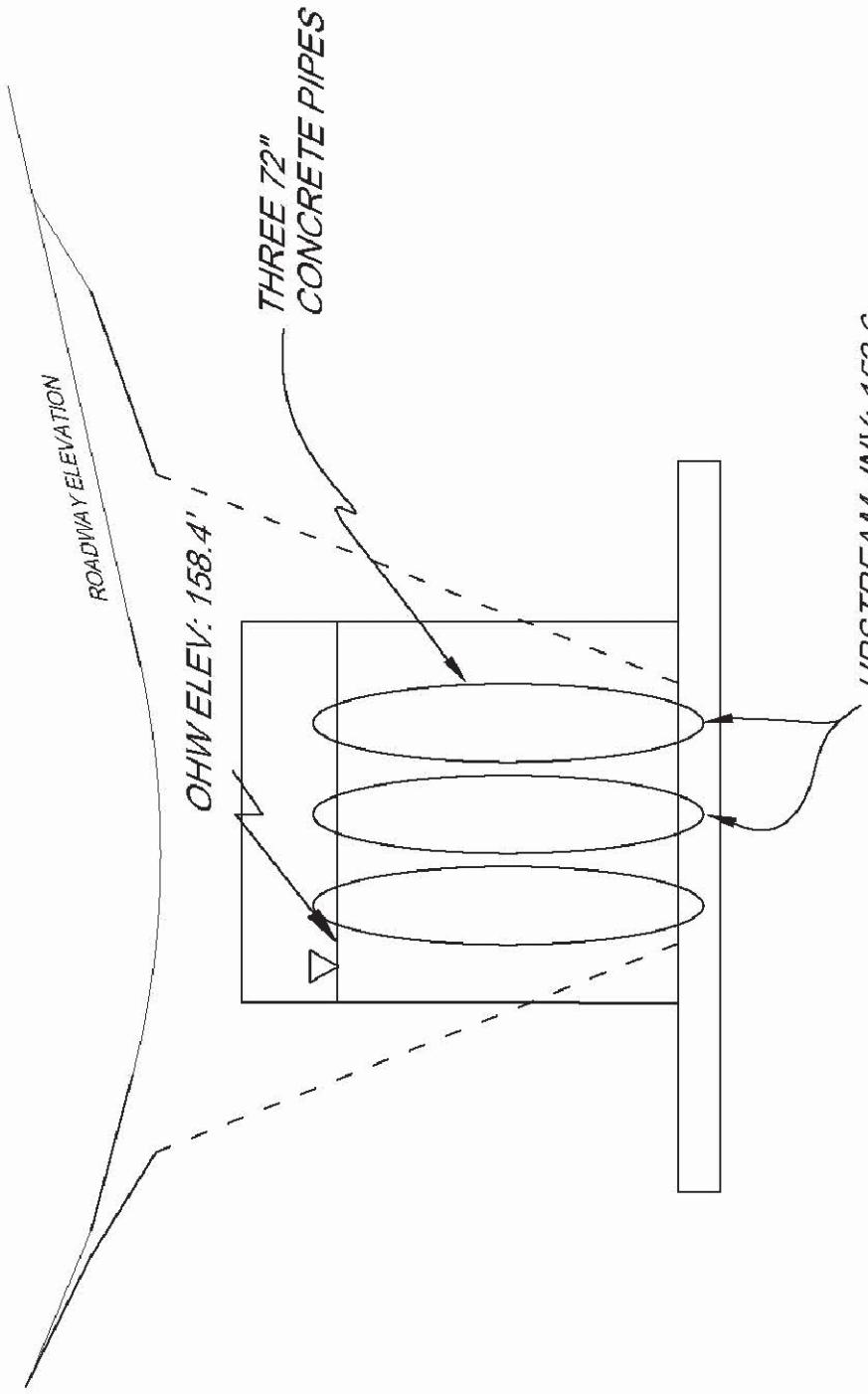


PROPOSED FOOTBRIDGE



<p>GRAPHIC SCALE</p> <p>1 inch = nts feet</p>	<p>DRAWN BY: LHB DATE: 27Feb2020 EPC PROJECT NO.: 1694</p>	<p>CROSS SECTION PEDESTRIAN BRIDGE</p> <p>ASSEMBLY STREET W-REI RICHLAND COUNTY</p>	<p>ENVIRONMENTAL PERMITTING</p> <p>Environmental Permitting Consultants, Inc.</p>	<p> SHEET NO.</p> <p>6</p>
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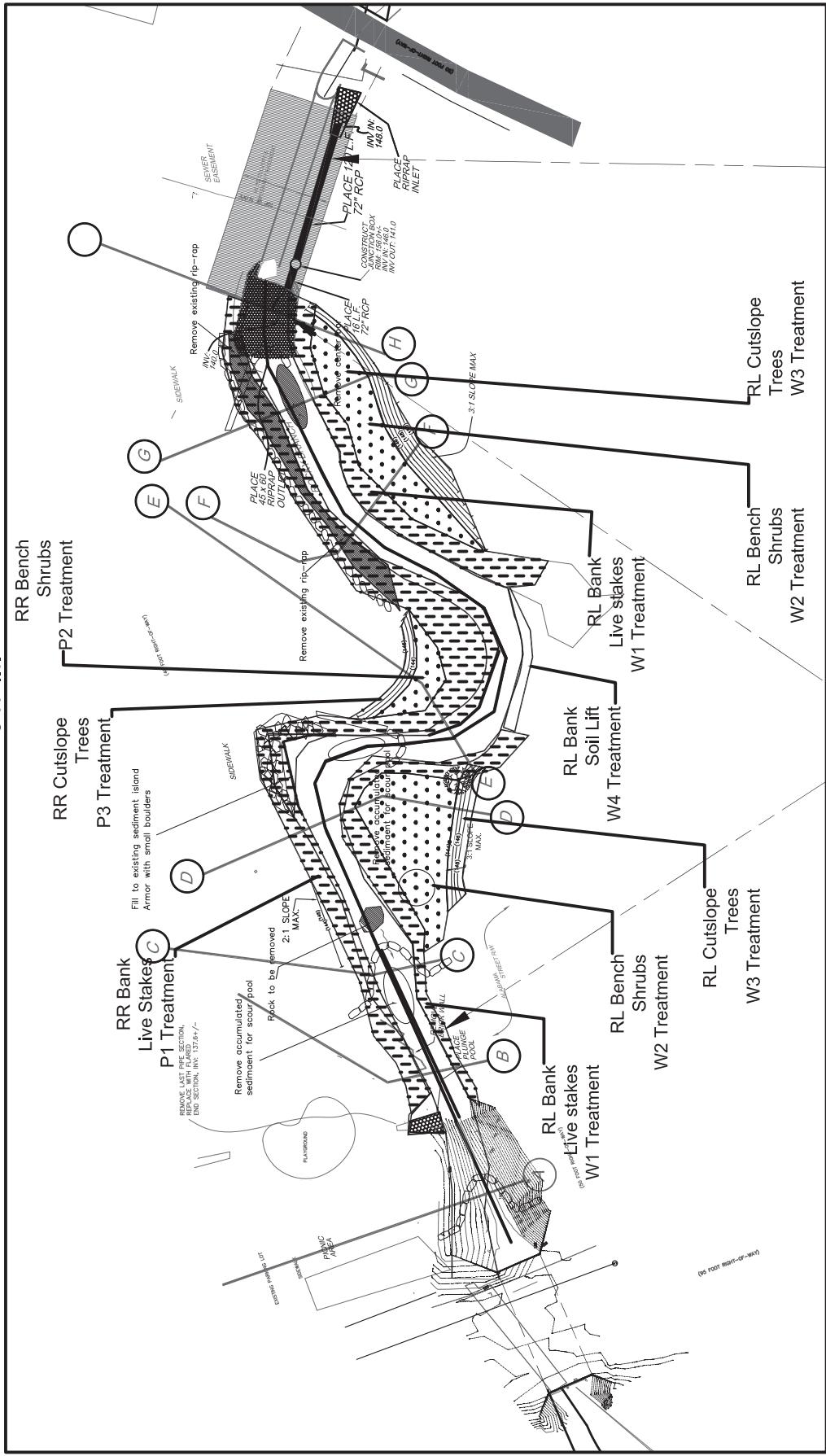
PLAN



Section A-A: UPSTREAM CULVERT FACE -

GRAPHIC SCALE	CULVERT DETAILS	SHEET NO.
1 inch = nts feet	ASSEMBLY STREET W-REI RICHLAND COUNTY	7
DRAWN BY: LHB		
DATE: 27Feb2020		
EPC PROJECT NO.: 1694		
Post Office Box 3744 Greenville, SC 29608 Phone: (864) 211-3040 Fax: (864) 235-9299		
Environmental Permitting Consultants, Inc.		

**MITIGATION
TOTAL LENGTH:
947 l.f.**



Olympia Park Stream
Restoration
947 l.f.

Addition of 72" RCP at RR
Grade to improve flow
conditions

MITIGATION OVERVIEW

ASSEMBLY STREET
W-REI
RICHLAND COUNTY

SHEET NO.

8

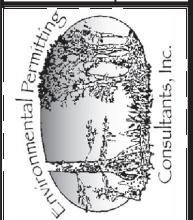
GRAPHIC SCALE

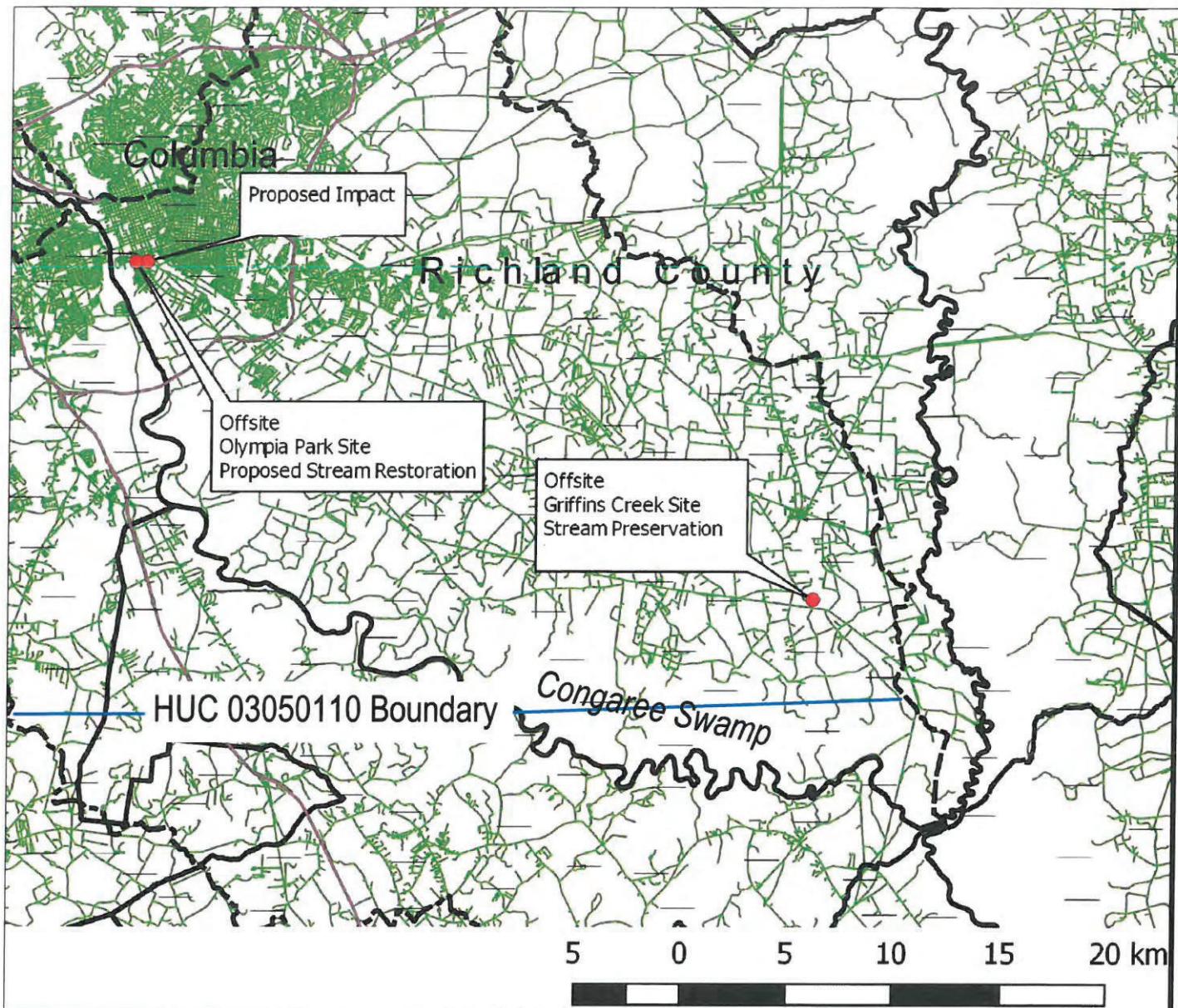
1 inch = 120 feet

DRAWN BY:	LHB
DATE:	27/05/2020
EPC PROJECT No.:	1694

Post Office Box 3744
Greenville, SC 29608
Phone: (864) 277-3040
Fax: (864) 235-9299

2012-00820-6F



**GRAPHIC SCALE**

1 inch = NTS feet

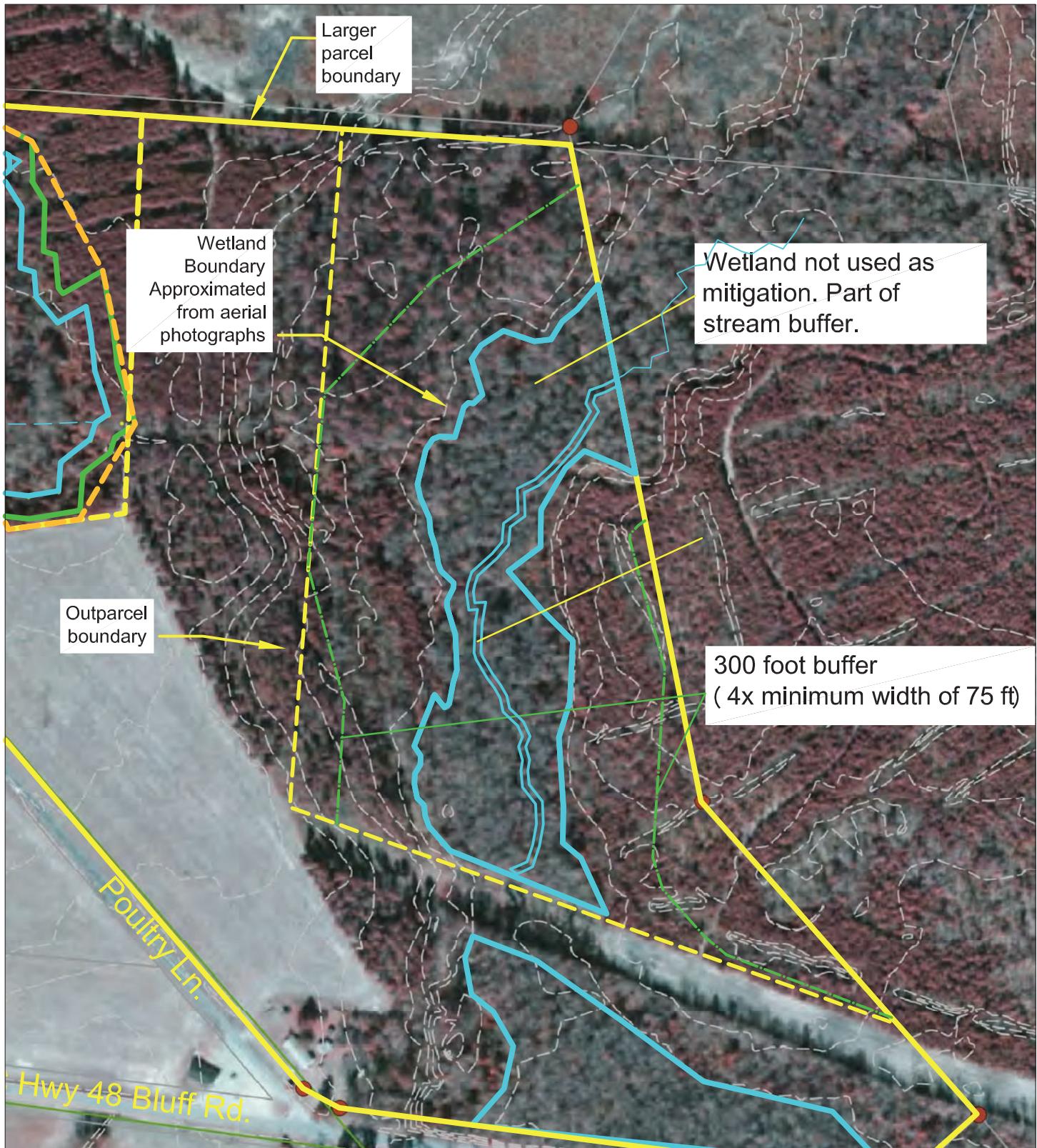
Post Office Box 3744
Greenville, SC 29608
Phone: (864) 271-3040
Fax: (864) 235-6299

DRAWN BY: LHB
DATE: 10oct2019
EPC PROJECT NO.: 1694

Mitigation Location Map

ARMP Rocky Branch - Griffins Creek
W-REI
Richland County, SC

SHEET NO.**3**



Source: 2016 Orthophotography Richland County GIS Accessed 20161108



GRAPHIC SCALE

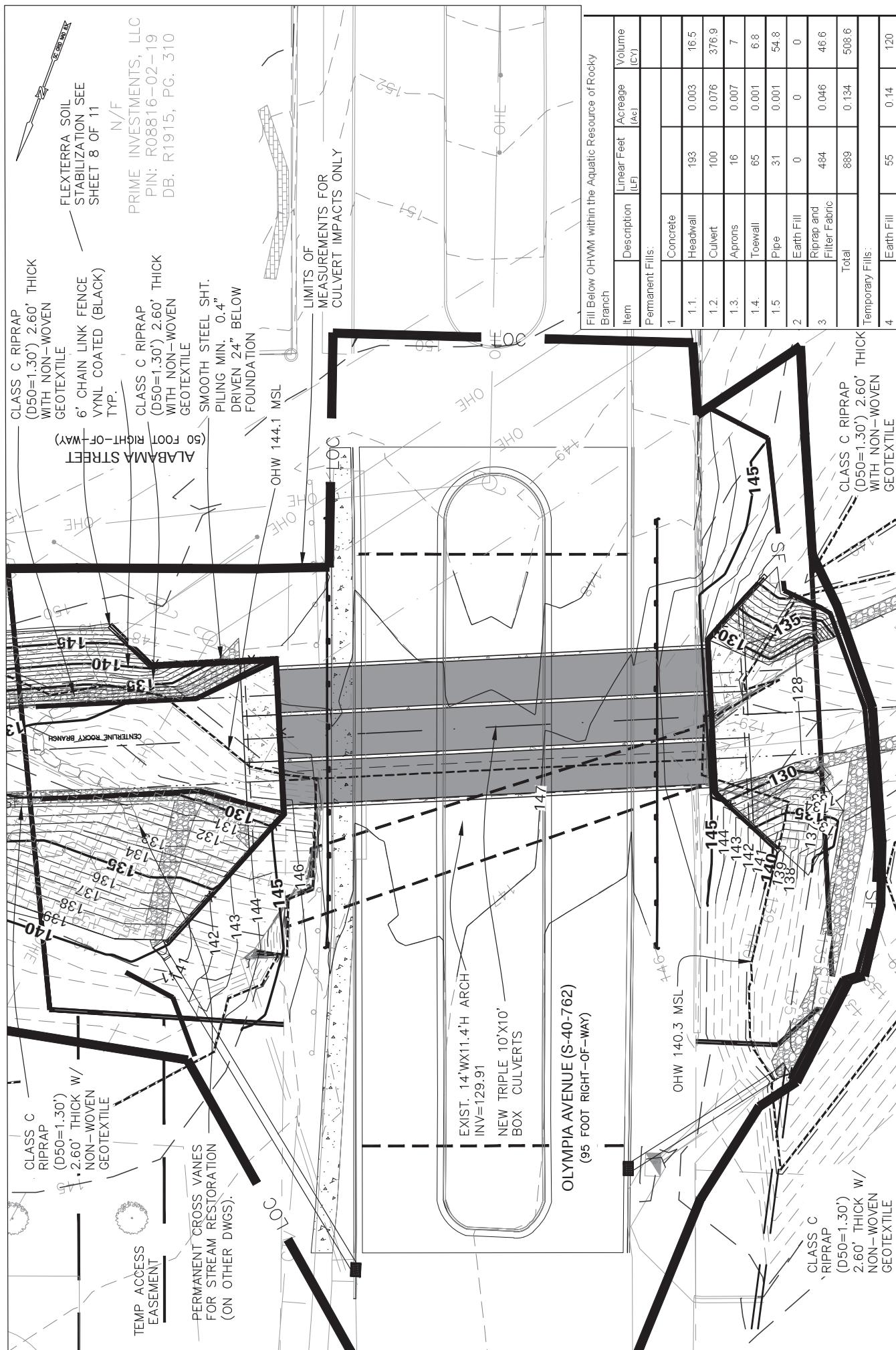
1 inch = 300 feet

Post Office Box 3744
Greenville, SC 29608
Phone: (864) 271-3040
Fax: (864) 235-9299

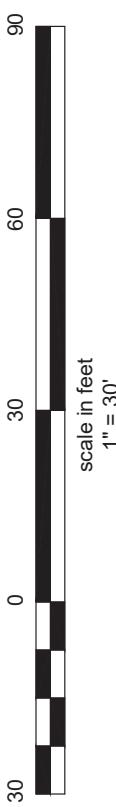
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EPC PROJECT NO.: 1694

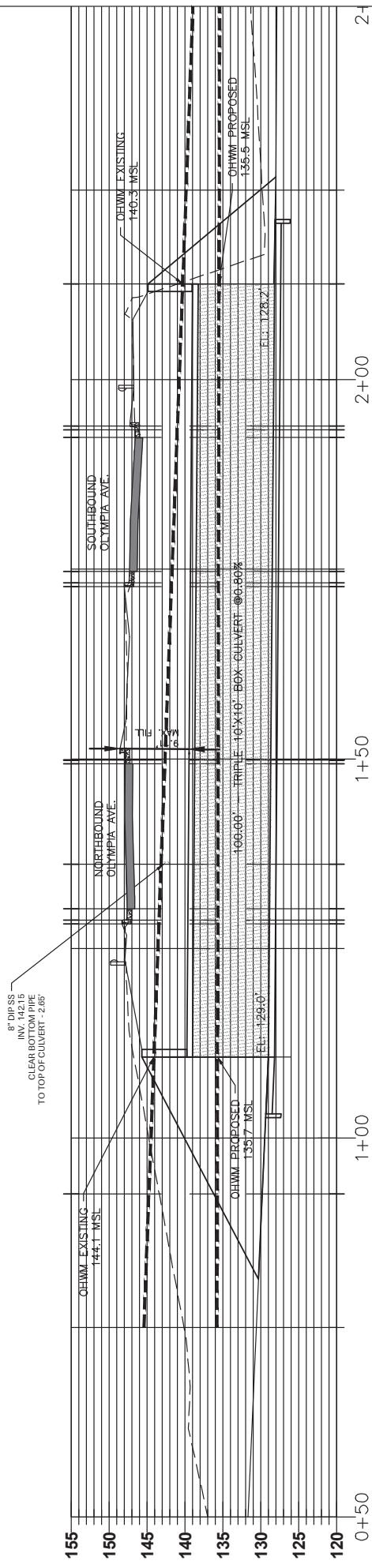
Stream Preservation
ARMP Rocky Branch - Griffins Creek
W-REI
Gadsden, Richland County, SC

SHEET NO.
15

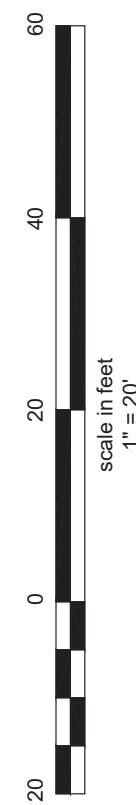


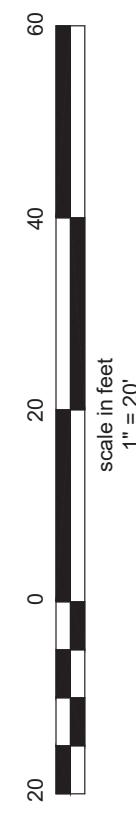
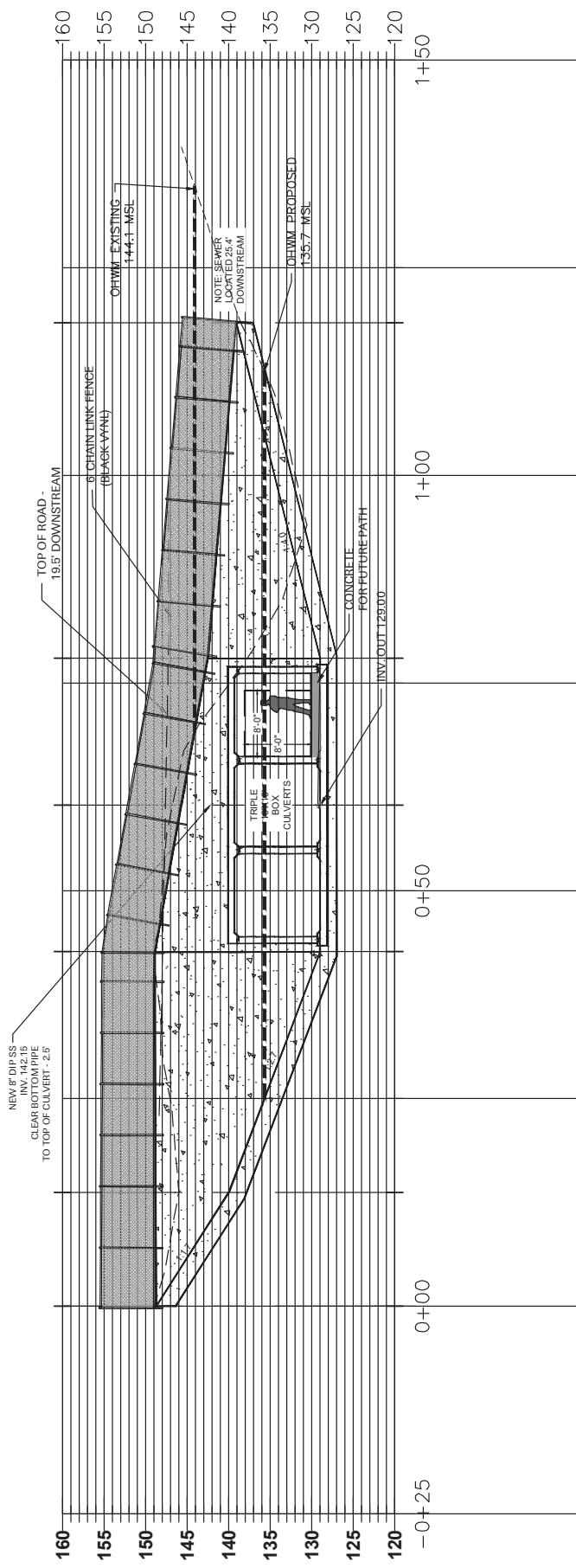
ROCKY BRANCH
OLYMPIA AVE. CULVERT REPLACEMENT
PLAN VIEW OF NEW TRIPLE 10X10 BOX CULVERT
SHEET 1 OF 11
MAY 14, 2020



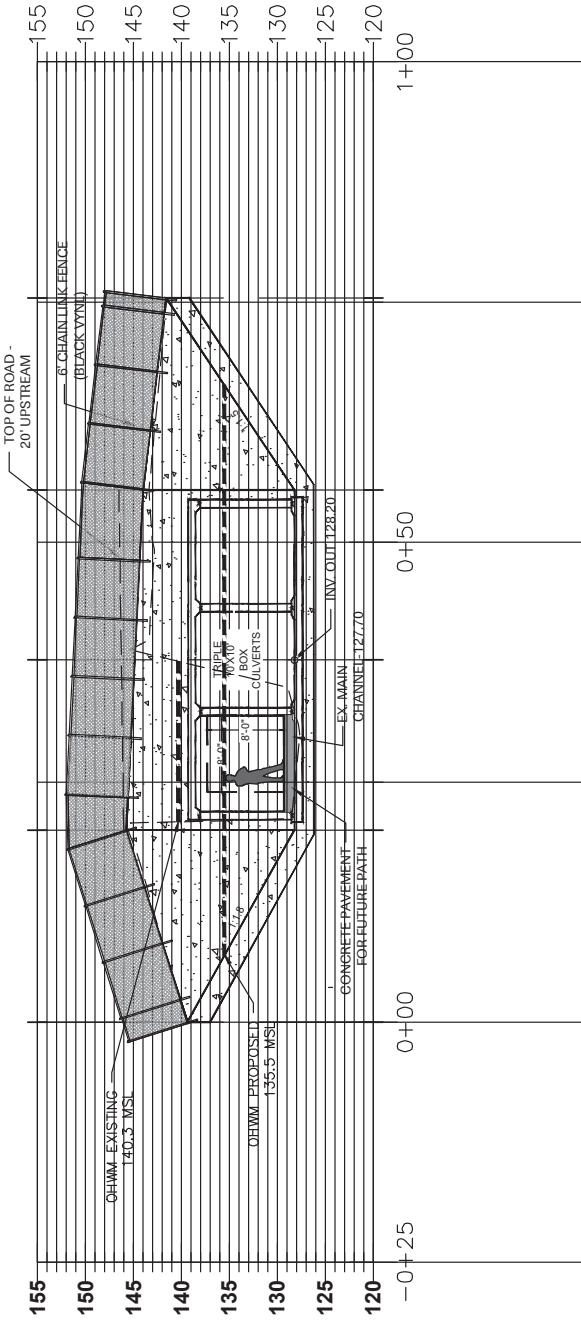


**ROCKY BRANCH
OLYMPIA AVE. CULVERT REPLACEMENT
PROFILE OF NEW TRIPLE 10X10 BOX CULVERT
SHEET 2 OF 11
MAY 14, 2020**





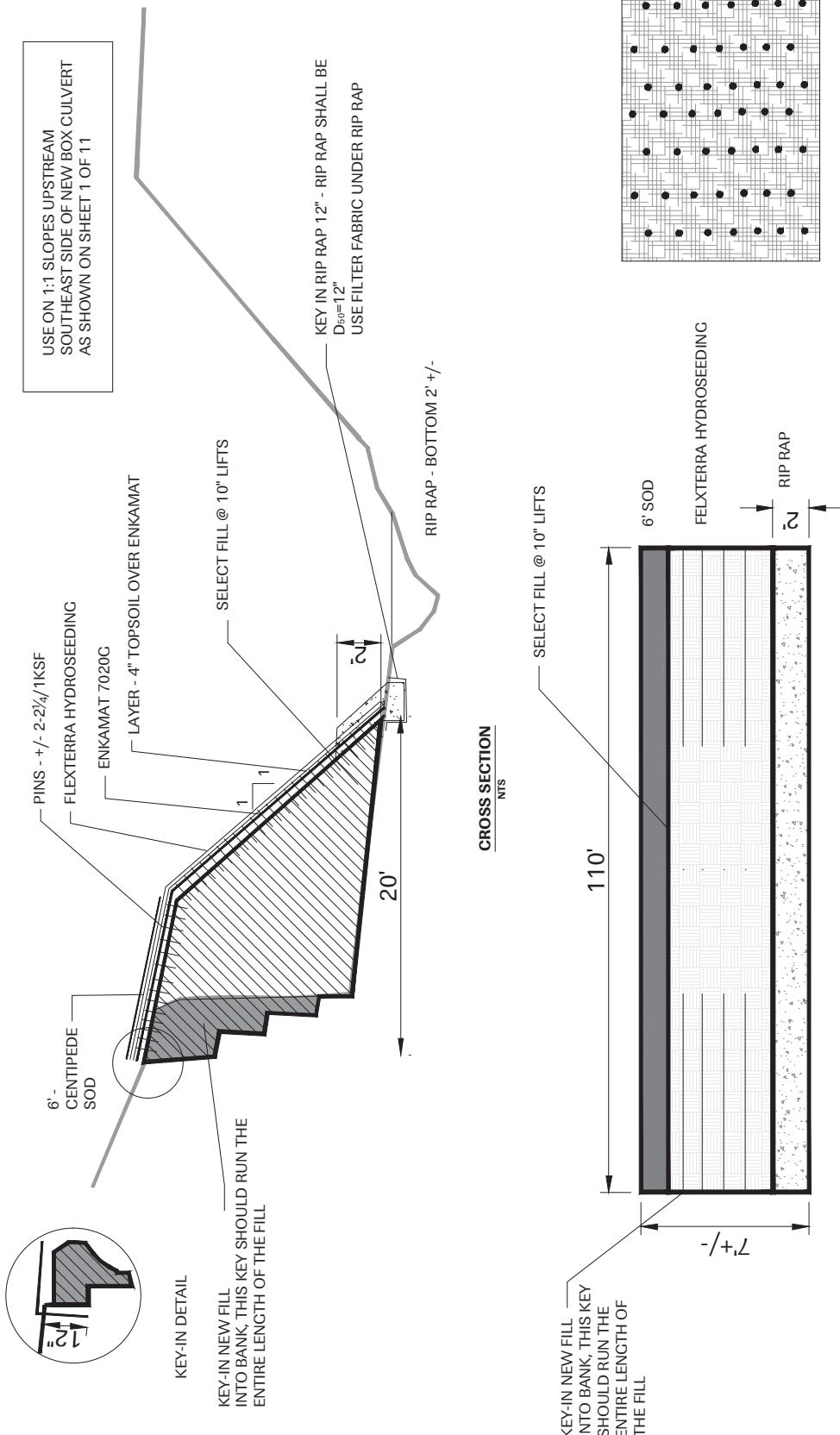
ROCKY BRANCH
OLYMPIA AVE. CULVERT REPLACEMENT
UPSTREAM CULVERT FACE
SHEET 3 OF 11
MAY 14, 2020



DOWNSTREAM CULVERT FACE (SOUTH - STA. 1+00.00)

**ROCKY BRANCH
OLYMPIA AVE. CULVERT REPLACEMENT
DOWNSTREAM CULVERT FACE
SHEET 4 OF 11
MAY 14, 2020**



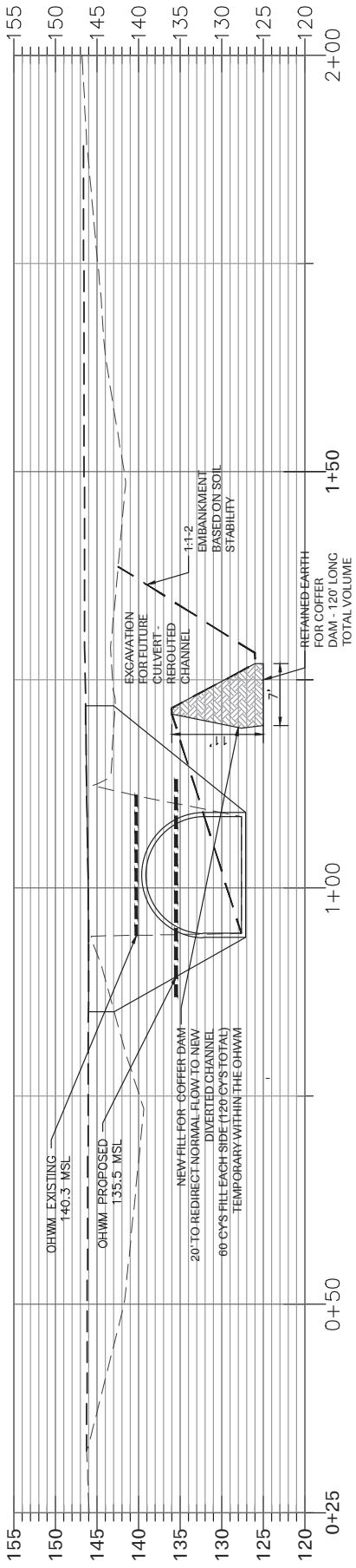


SCOPE AND SEQUENCE OF WORK:

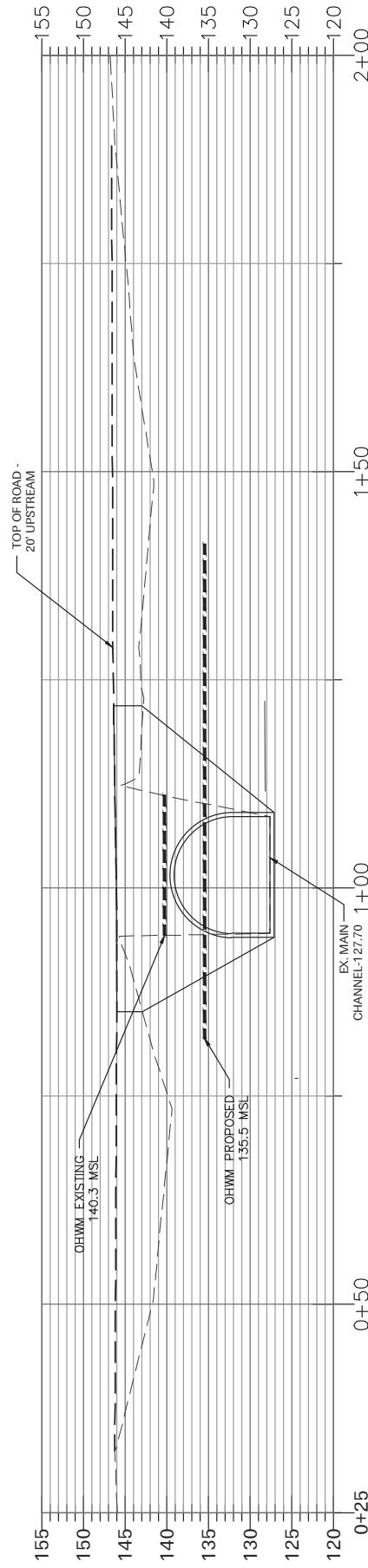
1. CONTRACTOR SHALL REMOVE THE ROOT, GRASS, AND TREE MATERIAL FROM THE BANK AND DISPOSE OF OFF SITE.
2. CONTRACTOR SHALL KEY IN EXISTING BANK APPROXIMATELY 3-5 FEET TO DEVELOP A KEY FOR THE TOPSOIL MATERIAL.
3. TOP SOIL AND ANY FILL MATERIAL SHALL BE COMPACTED TO APPROXIMATELY 90% ASTM D-698, STANDARD PROCTOR
4. BANK SHALL BE RE-ESTABLISHED TO A SLOPE AS SHOWN ON THE GRADING PLANS.
5. ON TOP OF THE FILL, 6-INCHES OF TOPSOIL WILL BE PLACED.
6. ON TOP OF THE TOPSOIL, ENKAMAT PERMANENT EROSION CONTROL MATTING SHALL BE INSTALLED ON THE SLOPE. THE MATTING IS IN ROLLS AND SHALL BE PLACED TOP TO BOTTOM ROLLED OUT.
7. THE MATTING SHALL BE STAKED IN PLACE BY MANUFACTURER PROVIDED STAKES IN REPEATING PATTERNS AS DESCRIBED BY THE MANUFACTURER. STAKES ARE PROVIDED BY THE MANUFACTURER.
8. HAND PLACED RIP RAP SHALL BE PLACED ON THE BOTTOM 2' OF THE FILL OVER THE TOP OF THE MATTING MATERIAL
9. FROM THE EXISTING EDGE OF ROAD AND PARK, 6' OF CENTIPEDE SOD SHALL BE PLACED TO RE-ESTABLISH THE BANK AND TO HELP LOCK IN THE MATTING.
10. THE REMAINING TOPSOIL SHALL BE HYDROSEEDED WITH A COVERGROW MULCH AND PENNINGTON SEED SLOPEMASTER MIXTURE TO INCLUDE PERMANENT AND TEMPORARY GRASSING TO BEGIN TO ESTABLISH A GROUND COVER.
11. THE SITE WILL BE INSPECTED WEEKLY AND AFTER EVERY 1/2-INCH RAIN EVENT UNTIL GRASS IS ESTABLISHED.

ROCKY BRANCH
OLYMPIA AVE. CULVERT REPLACEMENT
SOIL REINFORCEMENT SOUTHEAST BANK
SHEET 5 OF 11
MAY 14, 2020

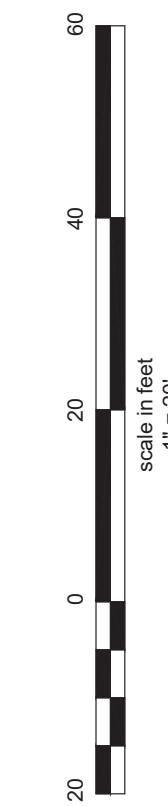
SAC-2012-00830 MODIFICATION Ballpark Assembly St, May 21, 2020, Sheet 17 of 43



**DOWNSTREAM CULVERT FACE (SOUTH - STA. 1+00.00)
STEPS 4-6**

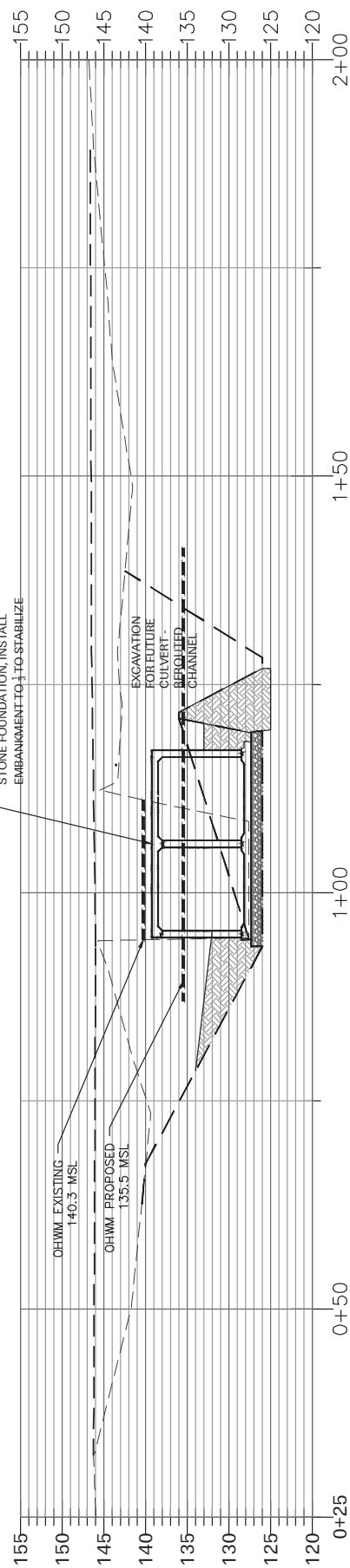


**DOWNSTREAM CULVERT FACE (SOUTH - STA. 1+00.00)
EXISTING CONDITIONS**

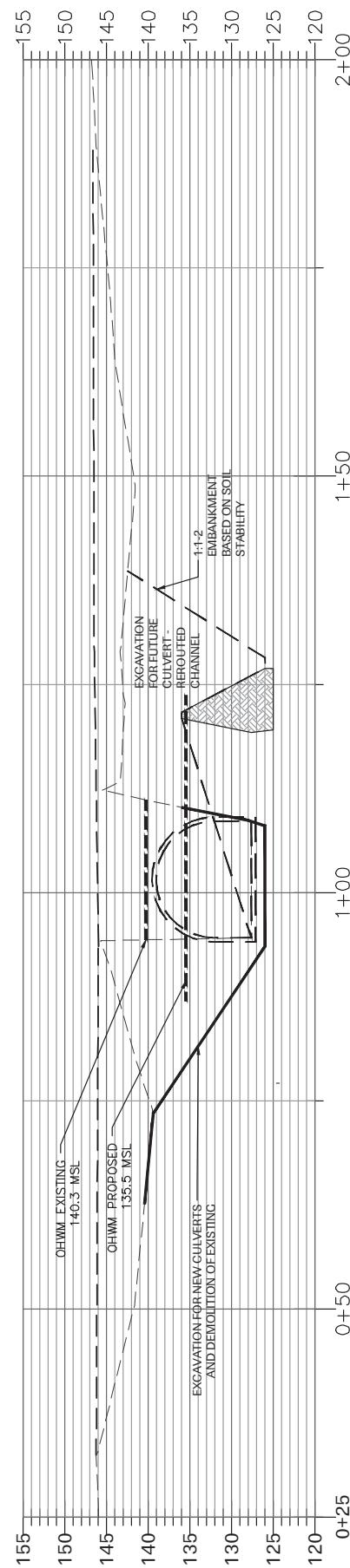


ROCKY BRANCH
OLYMPIA AVE. CULVERT REPLACEMENT
CONSTRUCTION STAGING AND TEMPORARY FILL

SHEET 6 OF 11
MAY 14, 2020



DOWNSTREAM CULVERT FACE (SOUTH - STA. 1+00.00)
STEPS 10-11

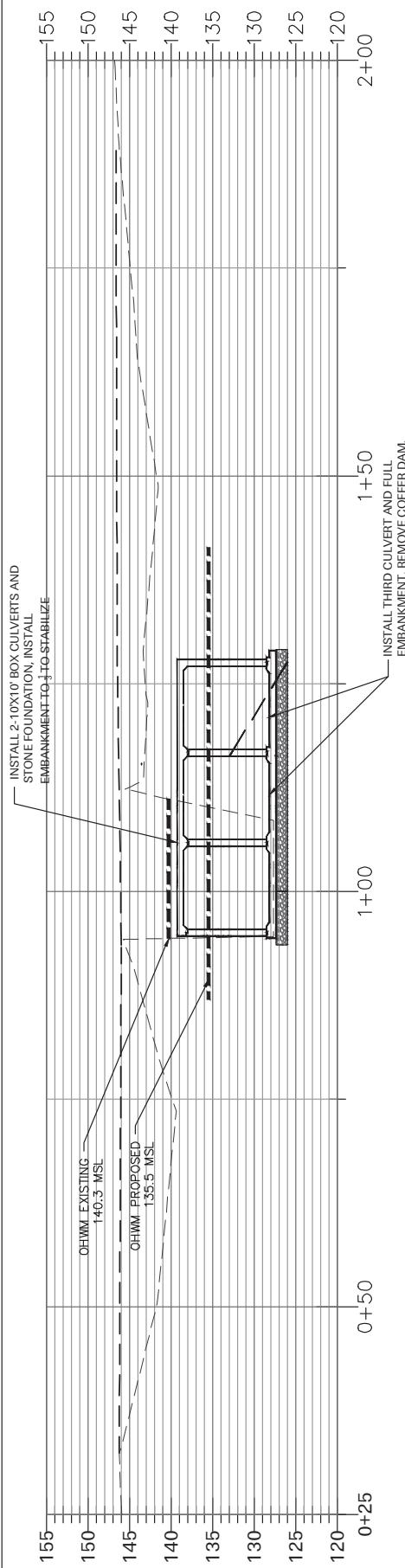


DOWNSTREAM CULVERT FACE (SOUTH - STA. 1+00.00)
STEPS 7-9

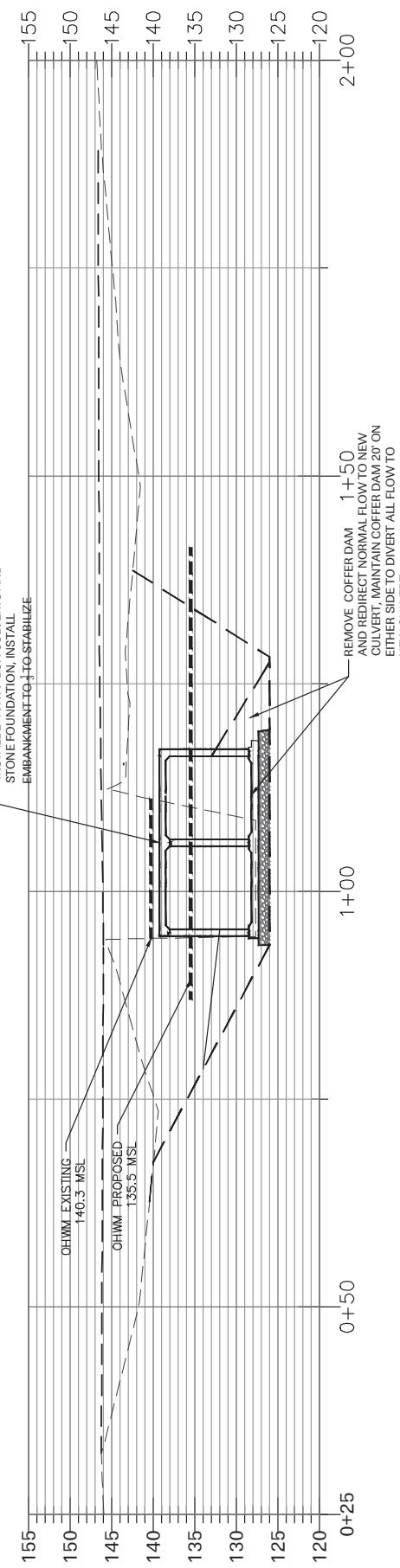


ROCKY BRANCH
OLYMPIA AVE. CULVERT REPLACEMENT
CONSTRUCTION STAGING AND TEMPORARY FILL

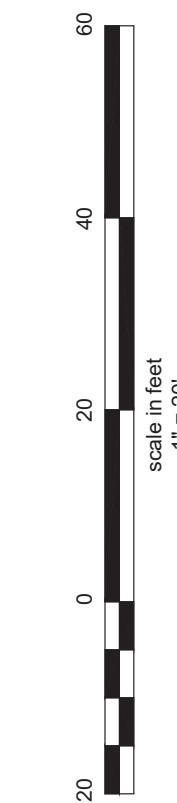
SHEET 7 OF 11
MAY 14, 2020



DOWNSTREAM CULVERT FACE (SOUTH - STA. 1+00.00)
STEPS 14-17

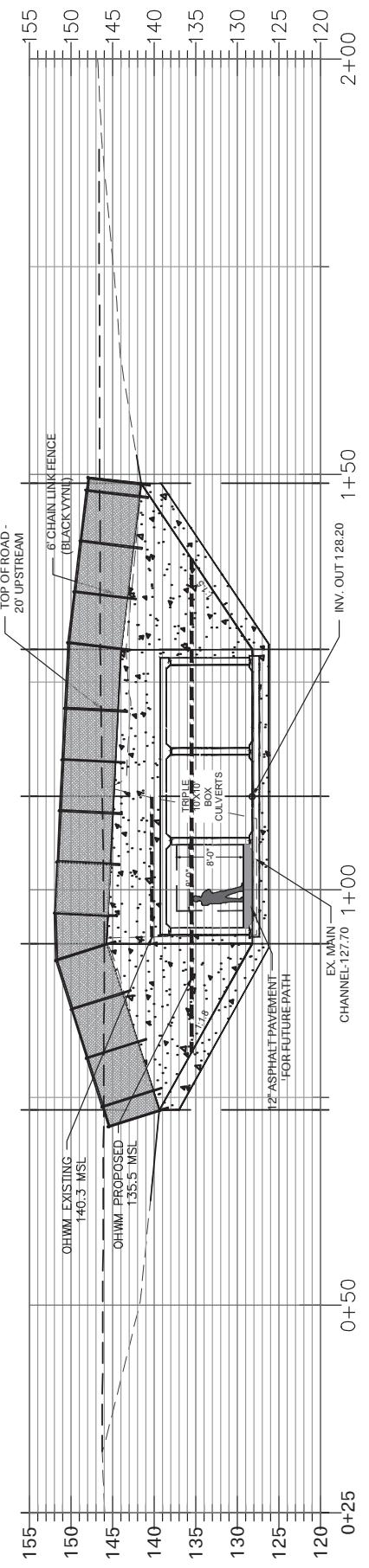


DOWNSTREAM CULVERT FACE (SOUTH - STA. 1+00.00)
STEPS 12-13

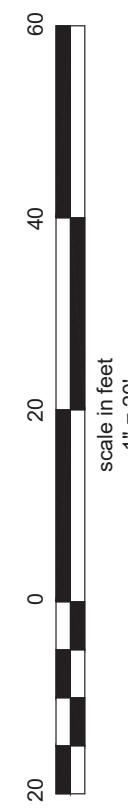


ROCKY BRANCH
OLYMPIA AVE. CULVERT REPLACEMENT
CONSTRUCTION STAGING AND TEMPORARY FILL

SHEET 8 OF 11
MAY 14, 2020

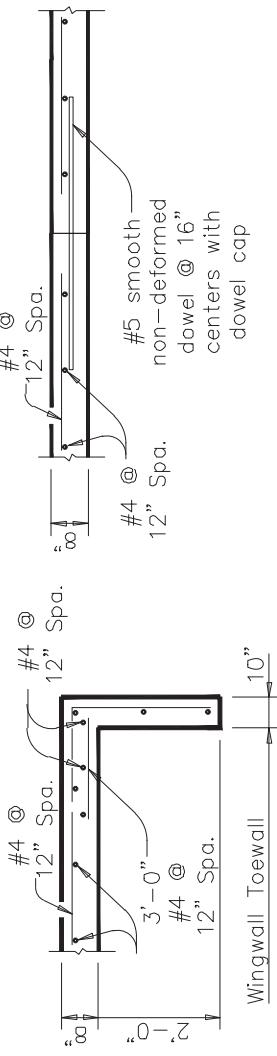


DOWNSUM STREAM CULVERT FACE (SOUTH - STA. 1+00.00)
STEPS 18-20



ROCKY BRANCH
OLYMPIA AVE. CULVERT REPLACEMENT
CONSTRUCTION STAGING AND TEMPORARY FILL

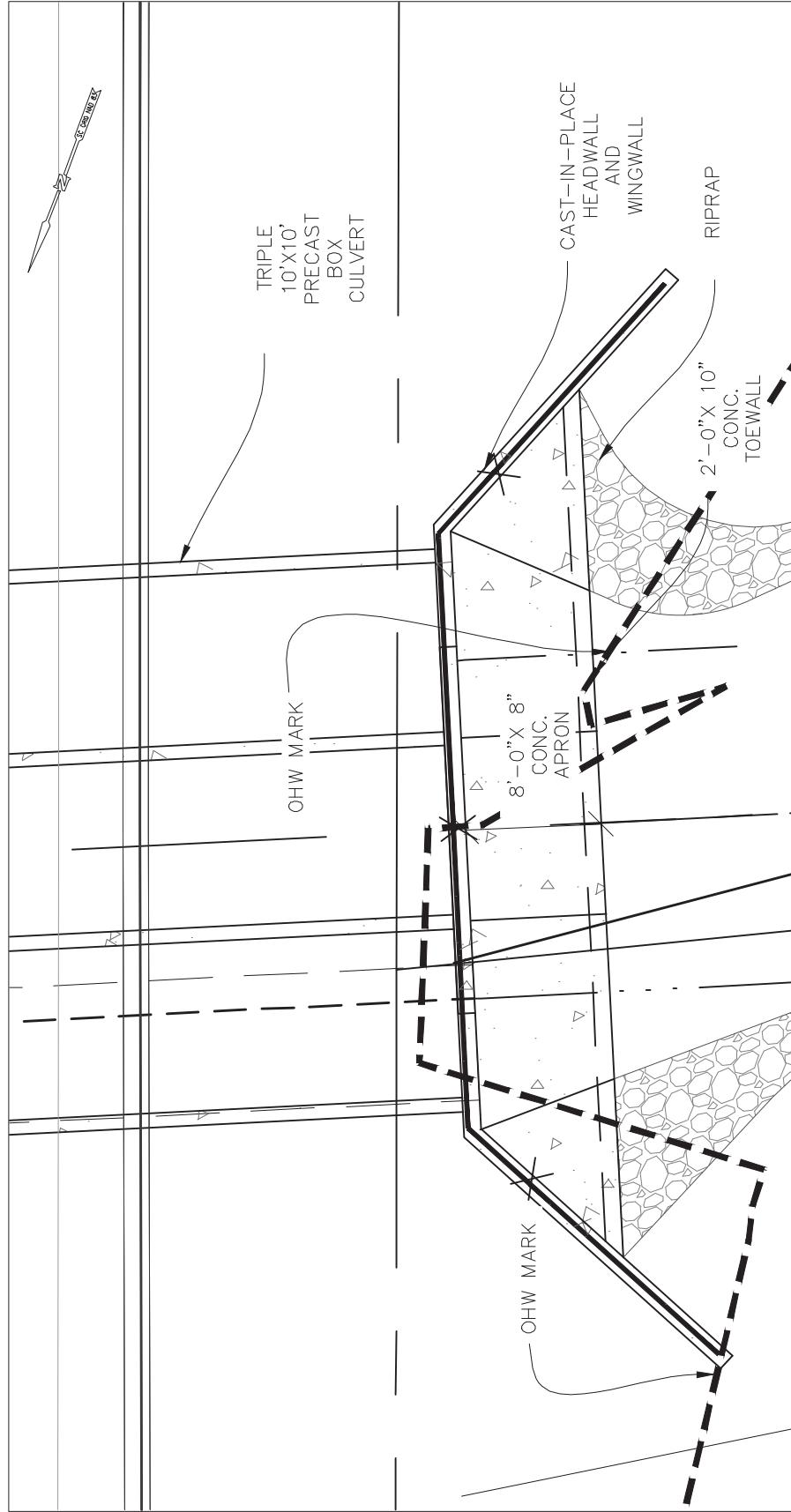
SHEET 9 OF 11
MAY 14, 2020



CONSTRUCTION JOINT DETAIL

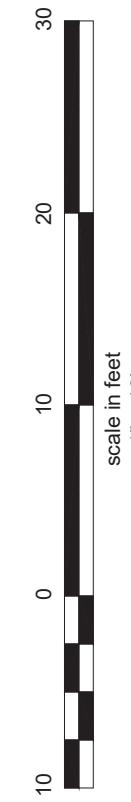
NOT TO SCALE

CONSTRUCTION JOINT DETAIL



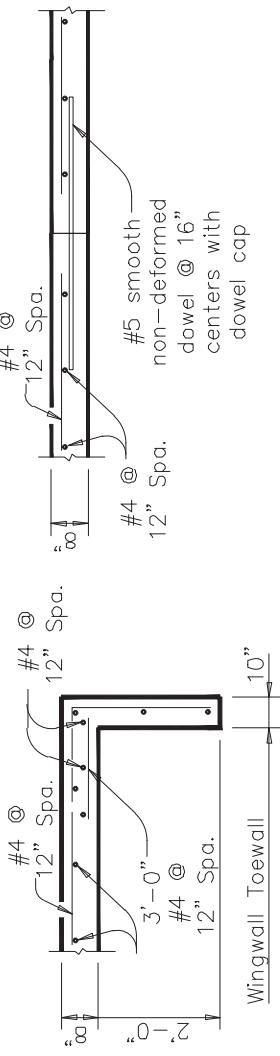
DOWNSSTREAM APRON DETAIL

NOT TO SCALE



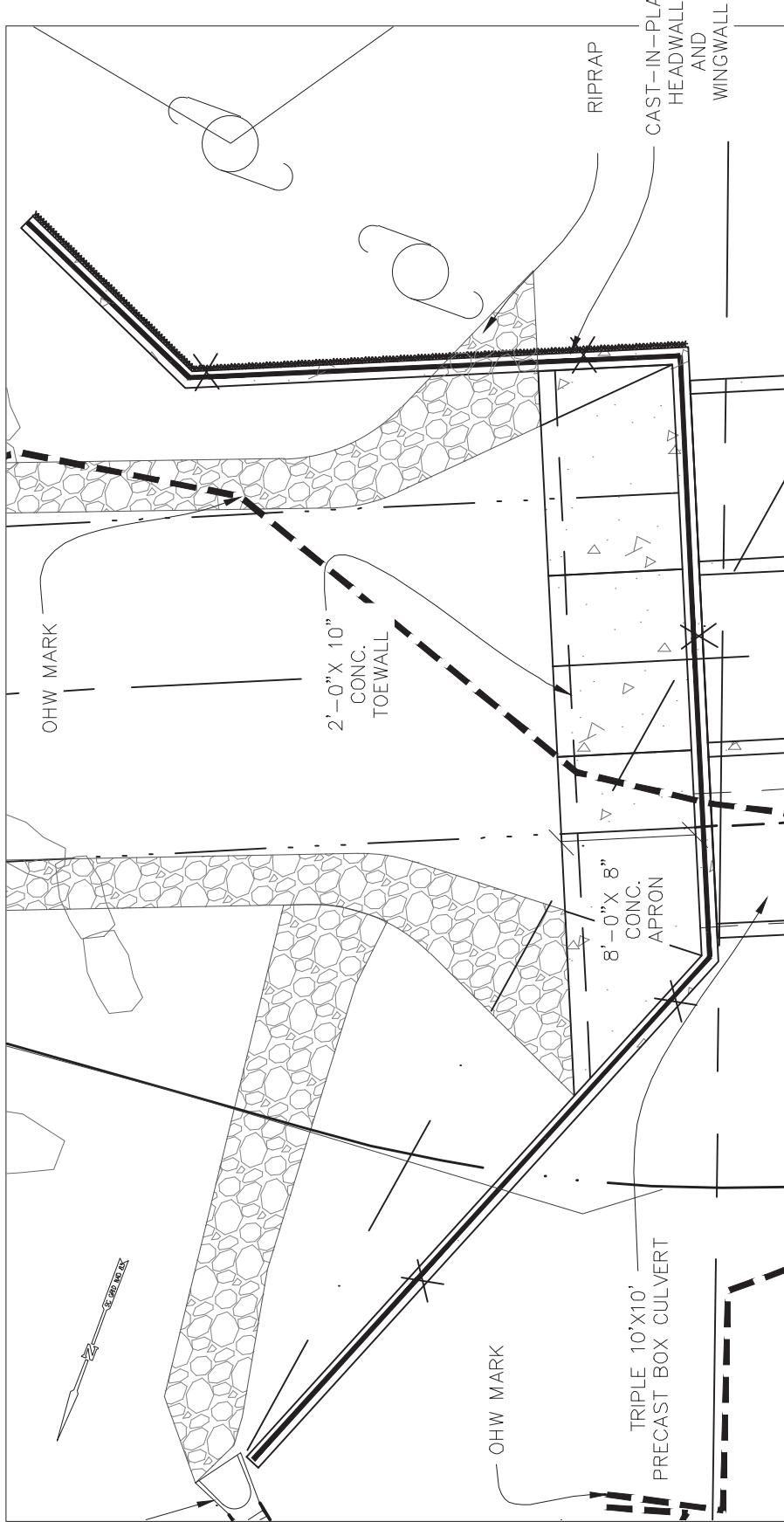
ROCKY BRANCH
OLYMPIA AVE. CULVERT REPLACEMENT
DOWNSTREAM APRON AND RIPRAP DETAIL

SHEET 10 OF 11
MAY 14, 2020



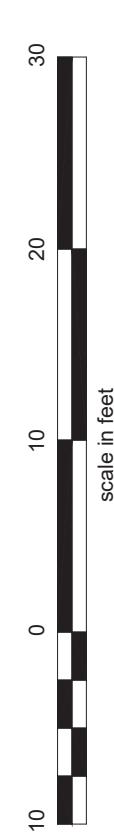
CONSTRUCTION JOINT DETAIL

NOT TO SCALE



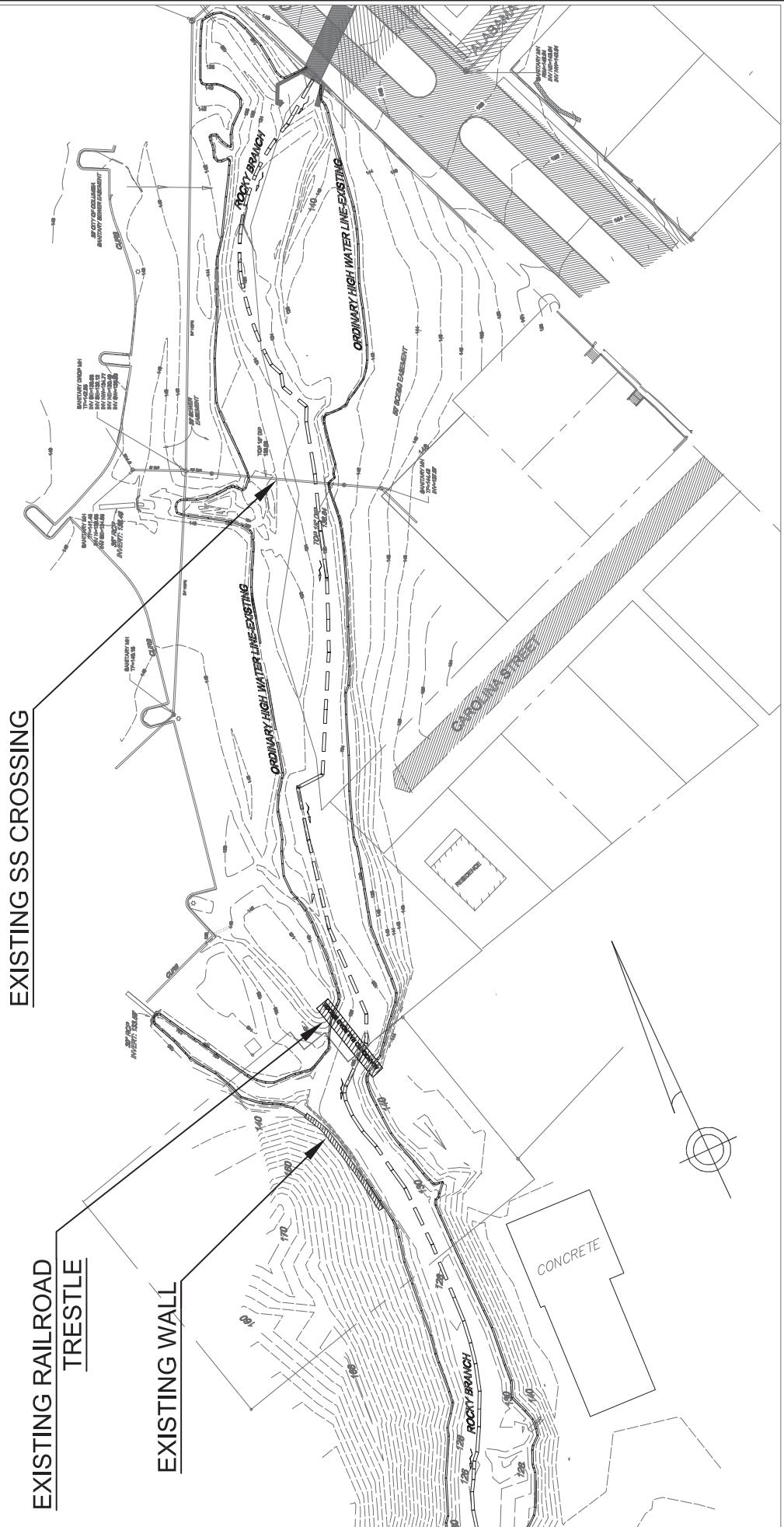
UPSTREAM APRON DETAIL

NOT TO SCALE

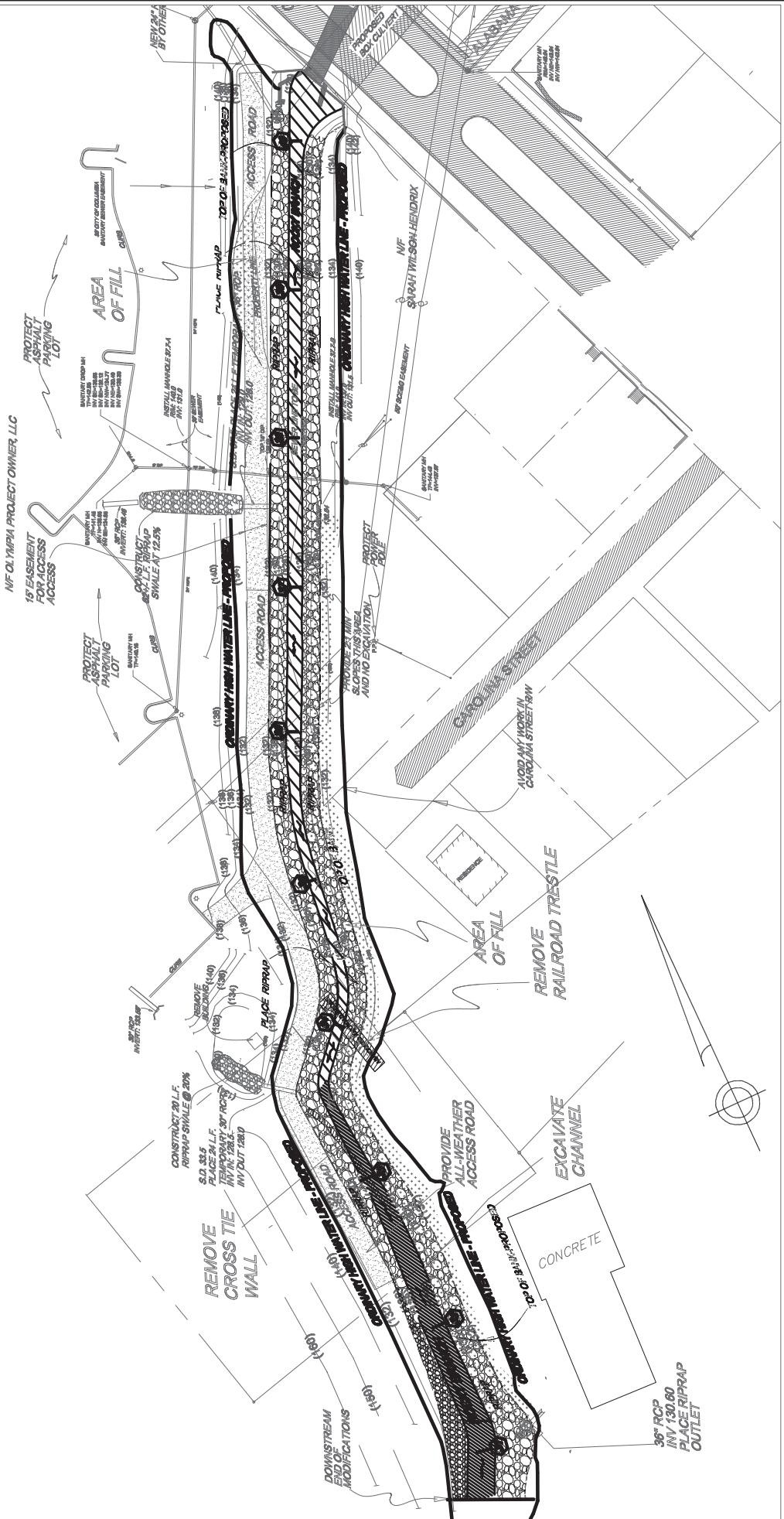


ROCKY BRANCH
OLYMPIA AVE. CULVERT REPLACEMENT
UPSTREAM APRON AND RIPRAP DETAIL

SHEET 11 OF 11
MAY 14, 2020



<p>EXISTING CONDITIONS</p> <p>ROCKY BRANCH BANK STABILIZATION W-REI RICHLAND COUNTY</p>	<p>GRAPHIC SCALE</p> <p>1 inch = 100 feet</p>
<p>SHEET NO.</p> <p>1 of 21</p>	<p>DRAWN BY: LHB DATE: 12/6/2020 EPC PROJECT NO.: 1694c</p> <p>Post Office Box 3744 Columbia SC 29208 Phone: (864) 271-1940 Fax: (864) 255-9298</p> <p>Environmental Permitting Consultants, Inc.</p>



PROPOSED CONDITIONS

BRANCH BANK STABILIZATION
W-REI
RICHLAND COUNTY

SHEET NO.

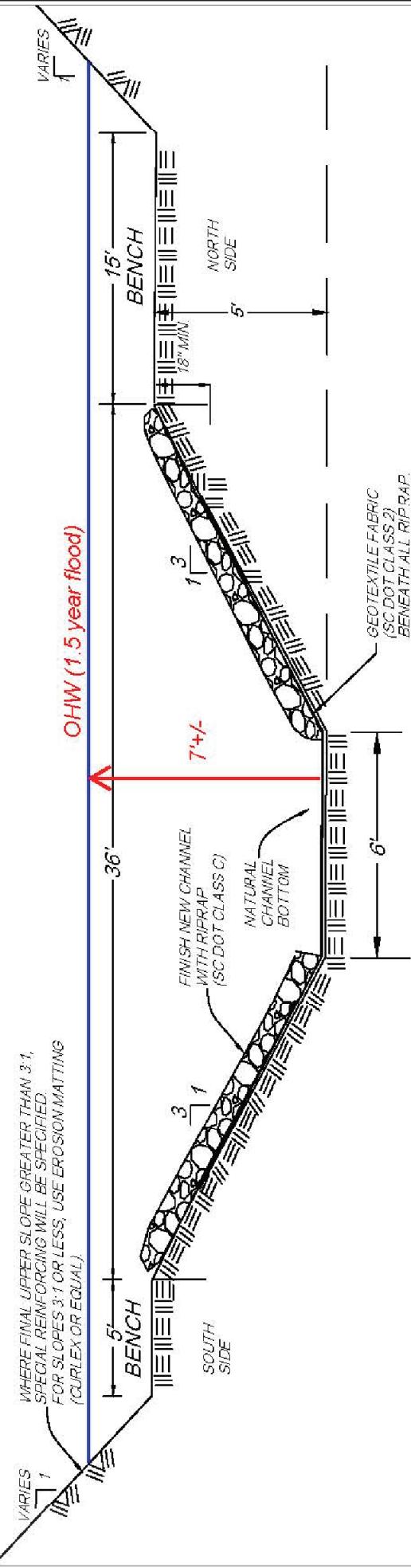
2 of 21

GRAPHIC SCALE

1 inch = 100 feet

Environmental Permitting
C. Consultants, Inc.

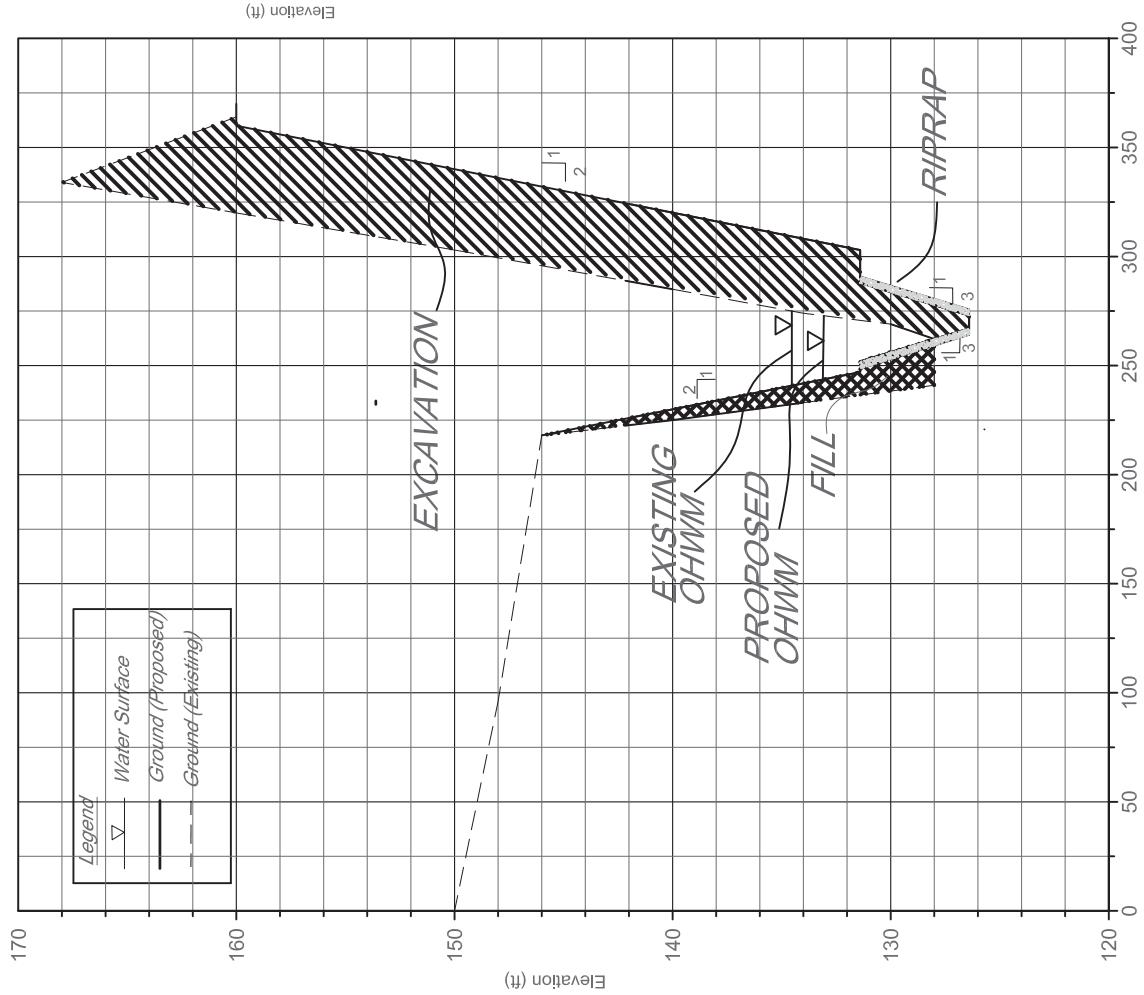
Post Office Box 37244 Greenville, SC 29608 Phone: (864) 271-3040 Fax: (864) 235-9289	DRAWN BY: DATE: EPC PROJECT No.: 2	LHB 12/06/2020 1634c
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EXCAVATED CHANNEL DETAIL - STA 31+00 TO 40+50

<p><u>GRAPHIC SCALE</u></p> <p>1 inch = nts feet</p> <p></p> <p>Environmental Permitting Consultants, Inc.</p>	<p><u>TYPICAL CROSS SECTION</u></p> <p>ROCKY BRANCH BANK STABILIZATION W-REI RICHLAND COUNTY</p>	<p>SHEET NO. 3 of 21</p>
<p>P.O. Box 3744 Gainesville, SC 29643 Phone: (864) 271-1940 Fax: (864) 255-9298</p>	<p>DRAWN BY: LHB DATE: 12/6/2020 EPC PROJECT NO.: 1694c</p>	

Rocky Branch
Cross Section 32+00



GRAPHIC SCALE

1 inch = nts feet



Pet Office Box 3744
Greenville, SC 29608
Phone: (864) 271-1940
Fax: (864) 256-9298

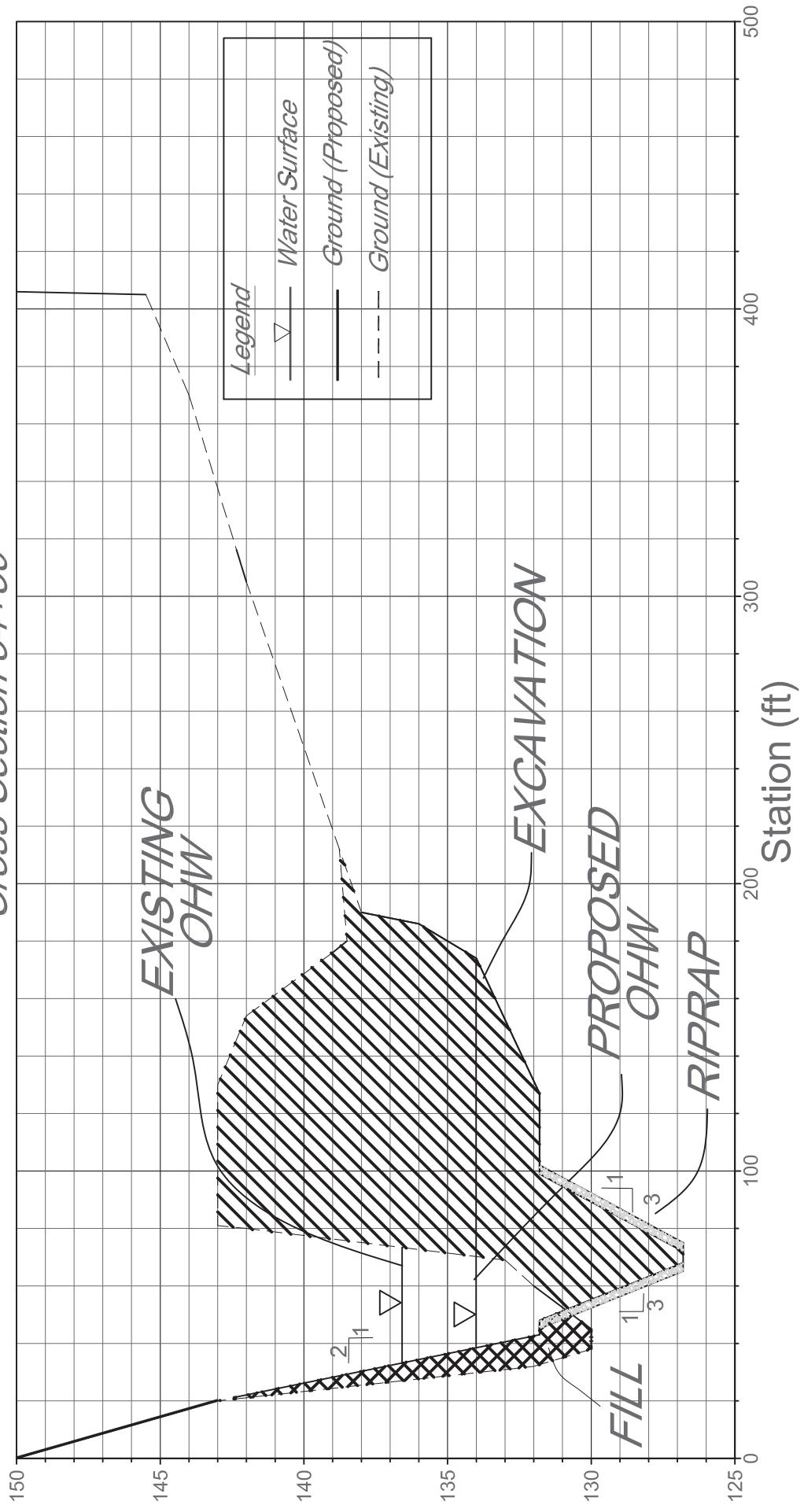
DRAWN BY: LHB
DATE: 12/6/2020
EPC PROJECT NO.: 1694c

CROSS SECTION 32 + 00
ROCKY BRANCH BANK STABILIZATION
W-REI
RICHLAND COUNTY

SHEET NO.

4 of 21

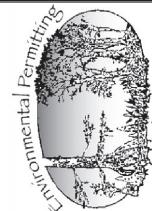
*Rocky Branch
Cross Section 34+30*



GRAPHIC SCALE
1 inch = nts feet

DRAWN BY: LHB
DATE: 12/6/2020
EPC PROJECT NO.: 1694c

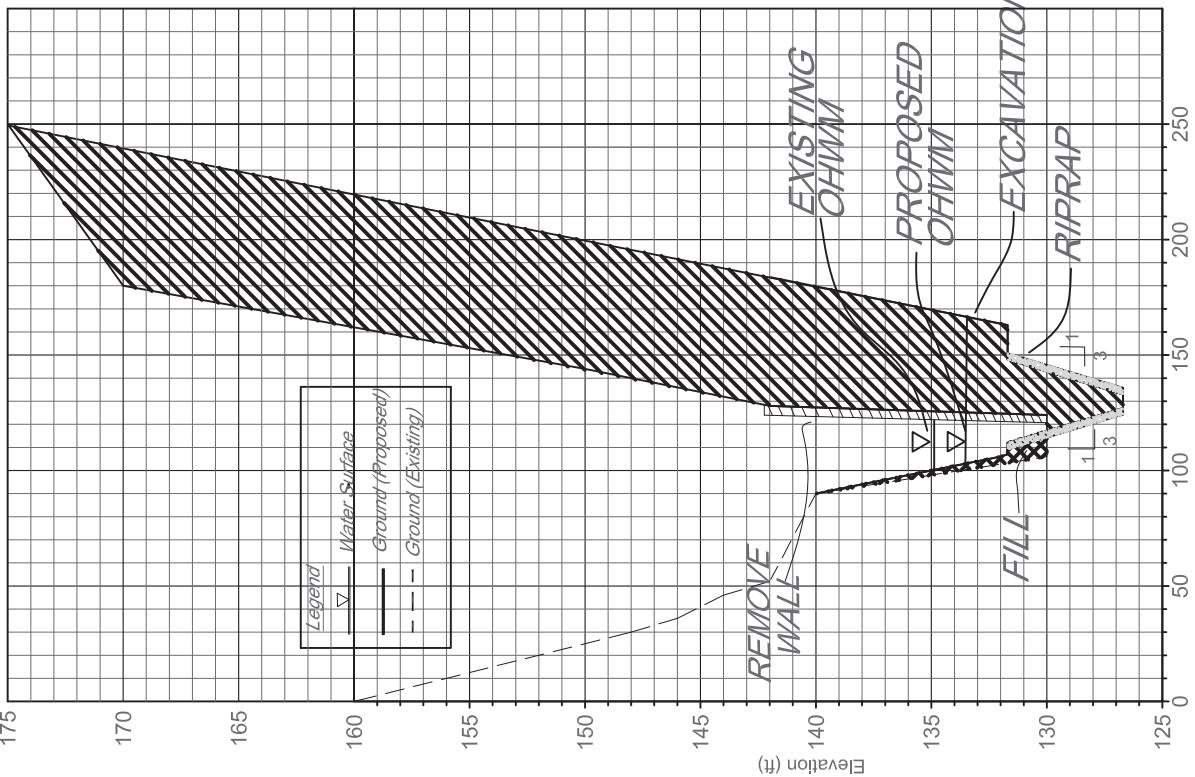
Post Office Box 3744
Goldsboro, NC 27943
Phone: (919) 271-1940
Fax: (919) 255-9298



CROSS SECTION 34 + 30
ROCKY BRANCH BANK STABILIZATION
W-REI
RICHLAND COUNTY

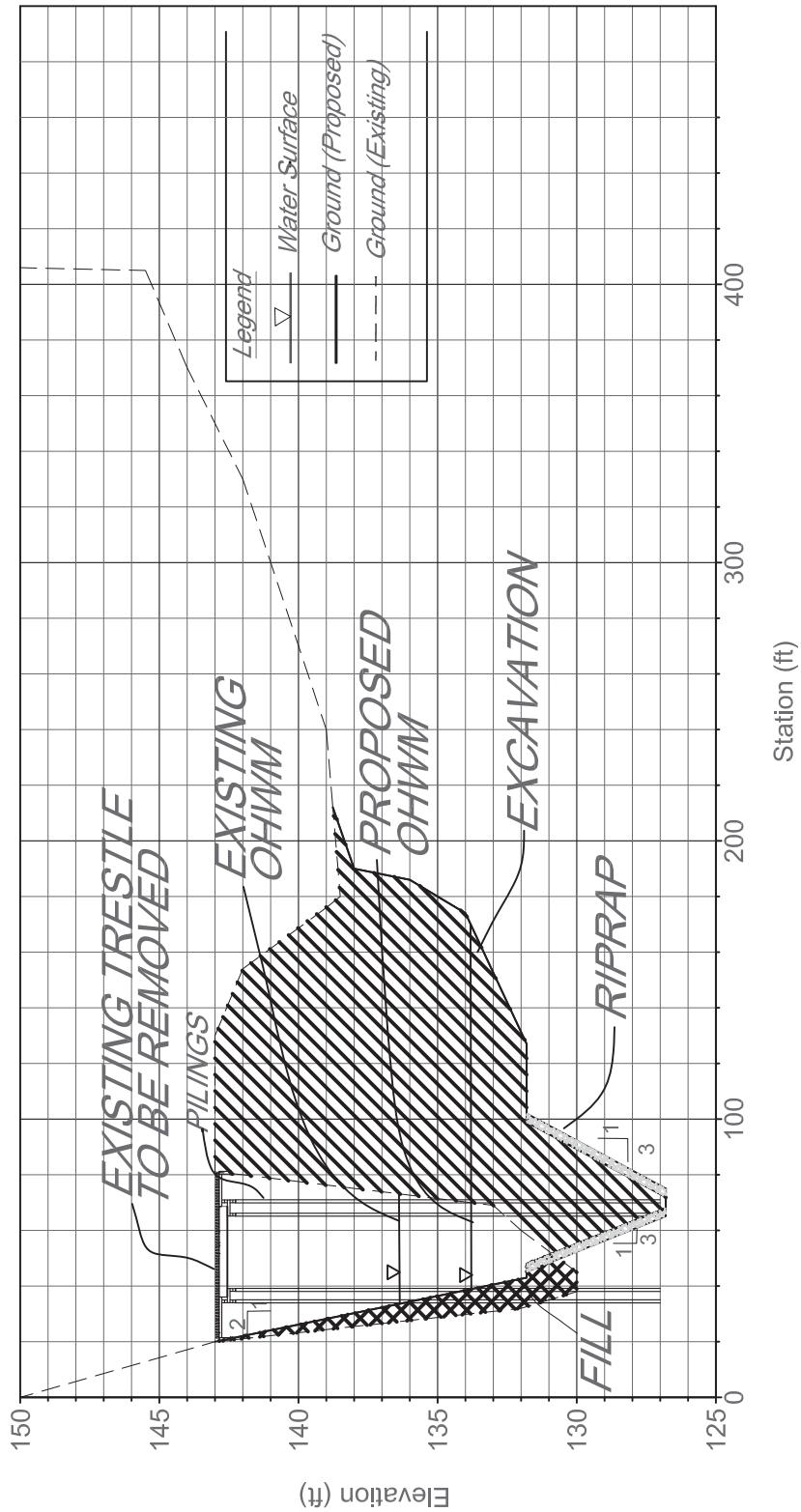
SHEET NO.

6 of 21

*Rocky Branch**Cross Section 33+40 (On CSX tract)*

	GRAPHIC SCALE	CROSS SECTION 34 + 40 WALL			
	1 inch = nts feet	LHB	DRAWN BY:	ROCKY BRANCH BANK STABILIZATION	SHEET NO.
			DATE:	W-REI	7 of 21
			EPIC PROJECT NO.:	RICHLAND COUNTY	
		Post Office Box 3744 Greenville, SC 29608 Phone: (864) 271-3400 Fax: (864) 235-9299	12bb2020		
					1084c

Rocky Branch
Cross Section 34+00 - TRESTLE



GRAPHIC SCALE

1 inch = nts feet

SHEET NO.

5 of 21

CROSS SECTIONS 34 + 00 TRESTLE

ROCKY BRANCH BANK STABILIZATION

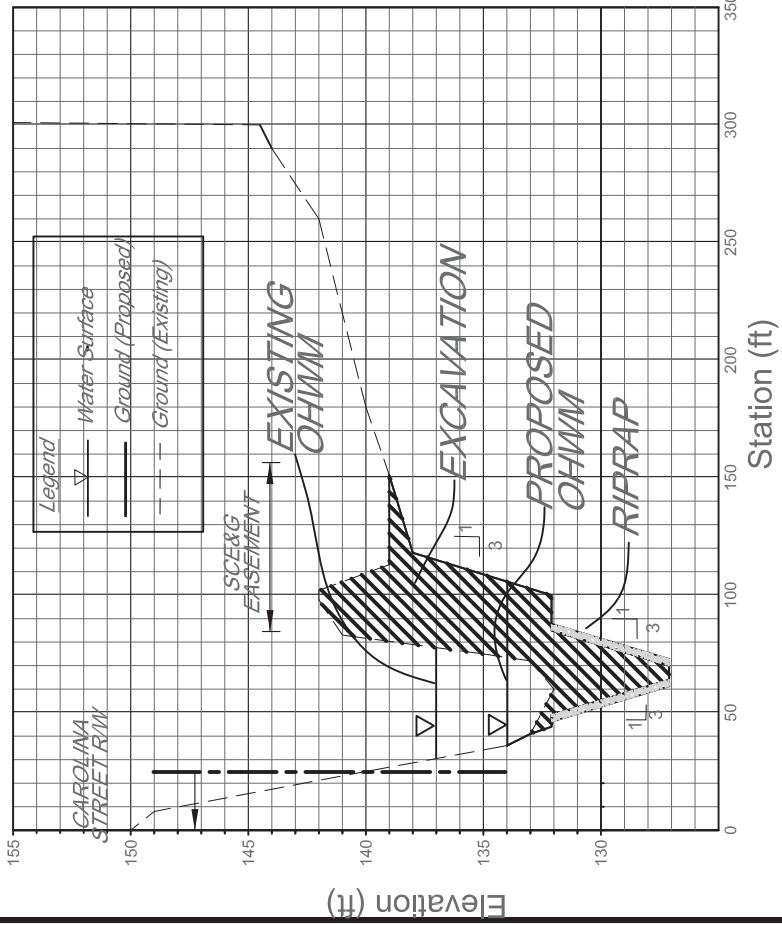
W-REI

RICHLAND COUNTY

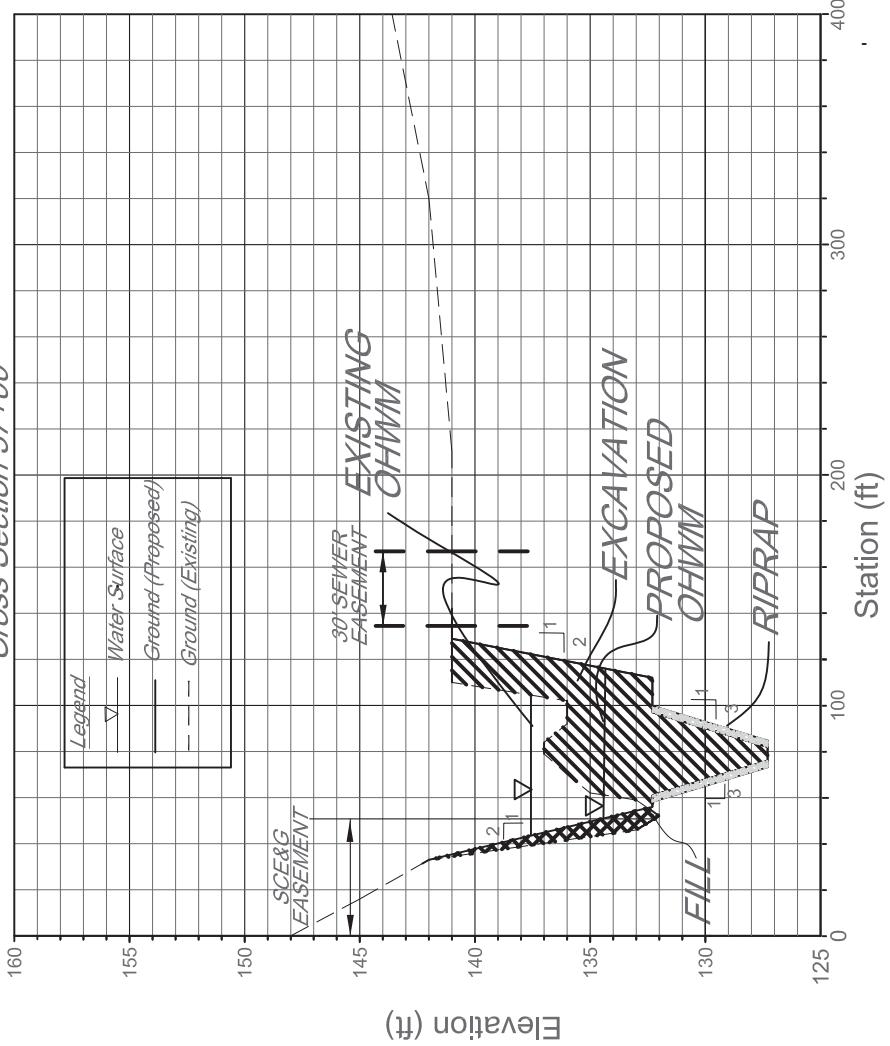


Post Office Box 3744 Columbia, SC 29208 Phone: (864) 271-1940 Fax: (864) 255-9298	DRAWN BY: LHB DATE: 12/6/2020 EPC PROJECT NO.: 1694c
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Rocky Branch
Cross Section 35+70



Rocky Branch
Cross Section 37+00



GRAPHIC SCALE

1 inch = nts feet

SHEET NO.

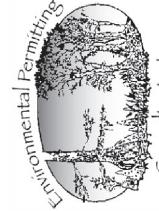
8 of 21

CROSS SECTIONS 35 + 70 AND 37 + 00

ROCKY BRANCH BANK STABILIZATION

W-REI

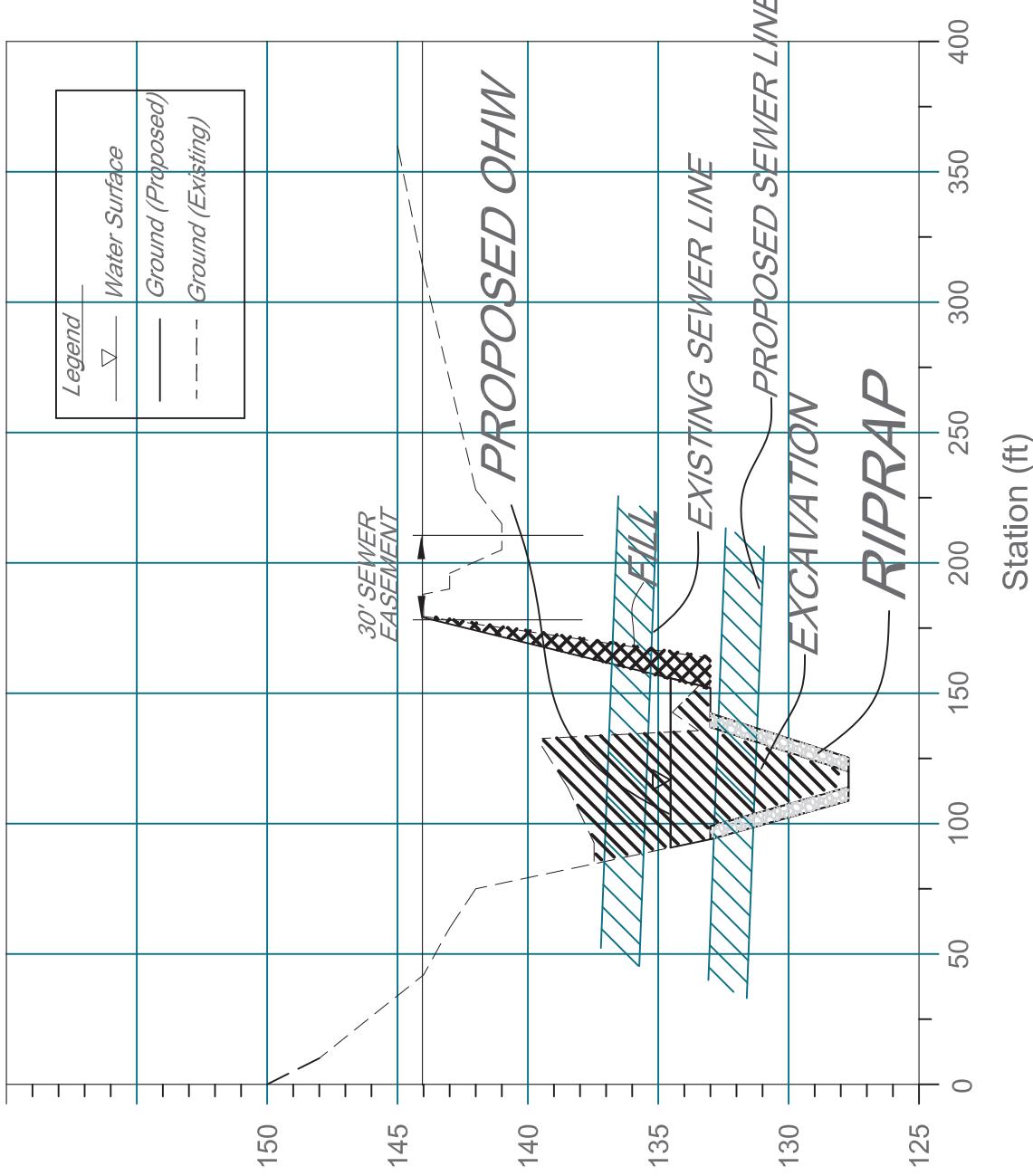
RICHLAND COUNTY



Post Office Box 3744 Columbia, SC 29208 Phone: (864) 271-1940 Fax: (864) 256-9298	DRAWN BY: LHB DATE: 12/6/2020 EPC PROJECT NO.: 1694c
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Rocky Branch

Cross Section 38+00- Sewer Crossing

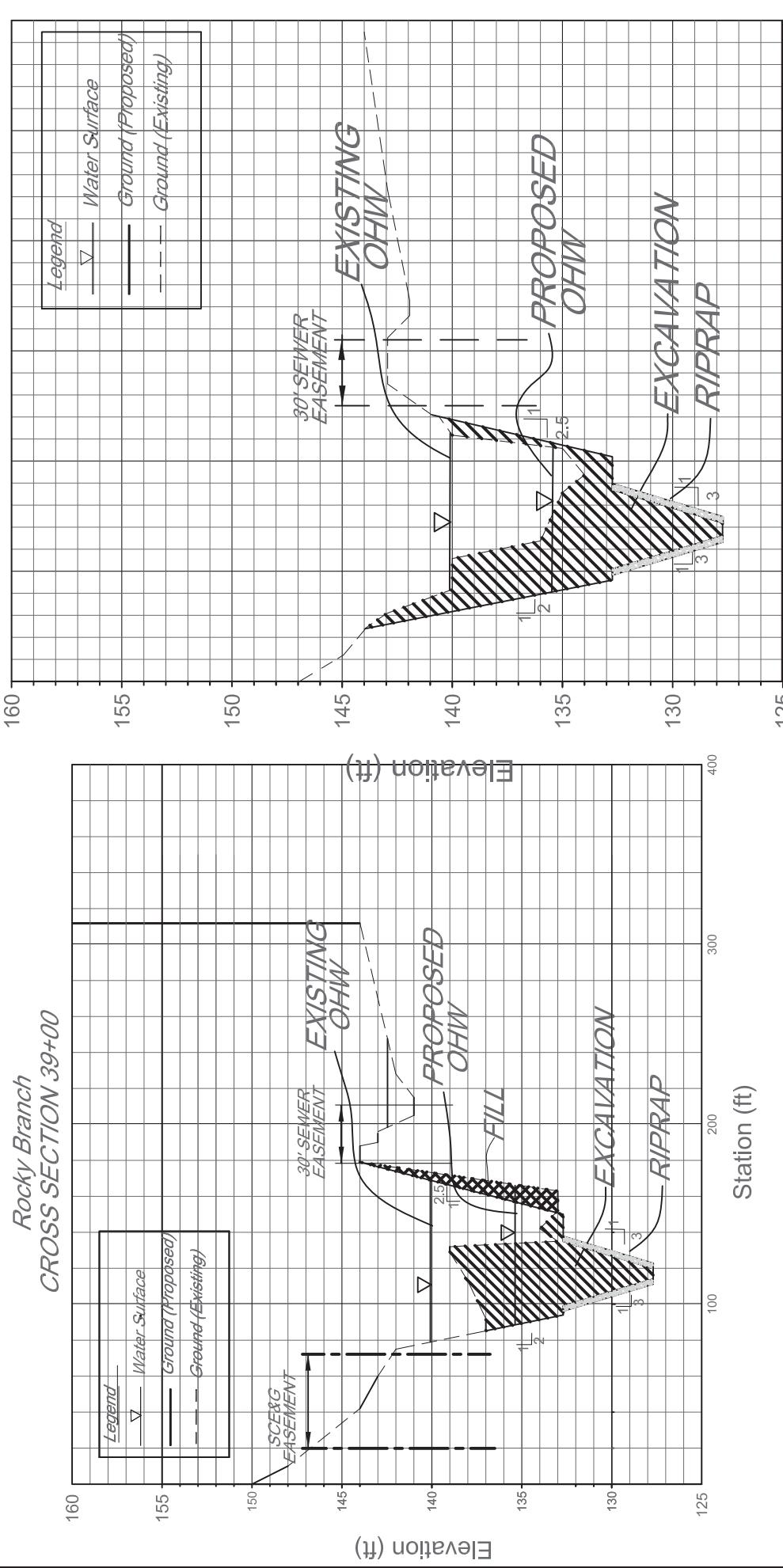


GRAPHIC SCALE	1 inch = nts feet	DRAWN BY: LHB
Plot Office Box 3744 Goldsboro, NC 27943 Phone: (919) 271-1940 Fax: (919) 255-9298		
EPC PROJECT NO.: 1694c		
ENVIRONMENTAL PERMITTING CONSULTANTS, INC.		

CROSS SECTION 38 + 00 SS ROCKY BRANCH BANK STABILIZATION W-REI RICHLAND COUNTY	SHEET NO. 9 of 21
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*Rocky Branch
Cross Section 39+90*

CROSS SECTION 39+00



SHEET NO.
10
of 21

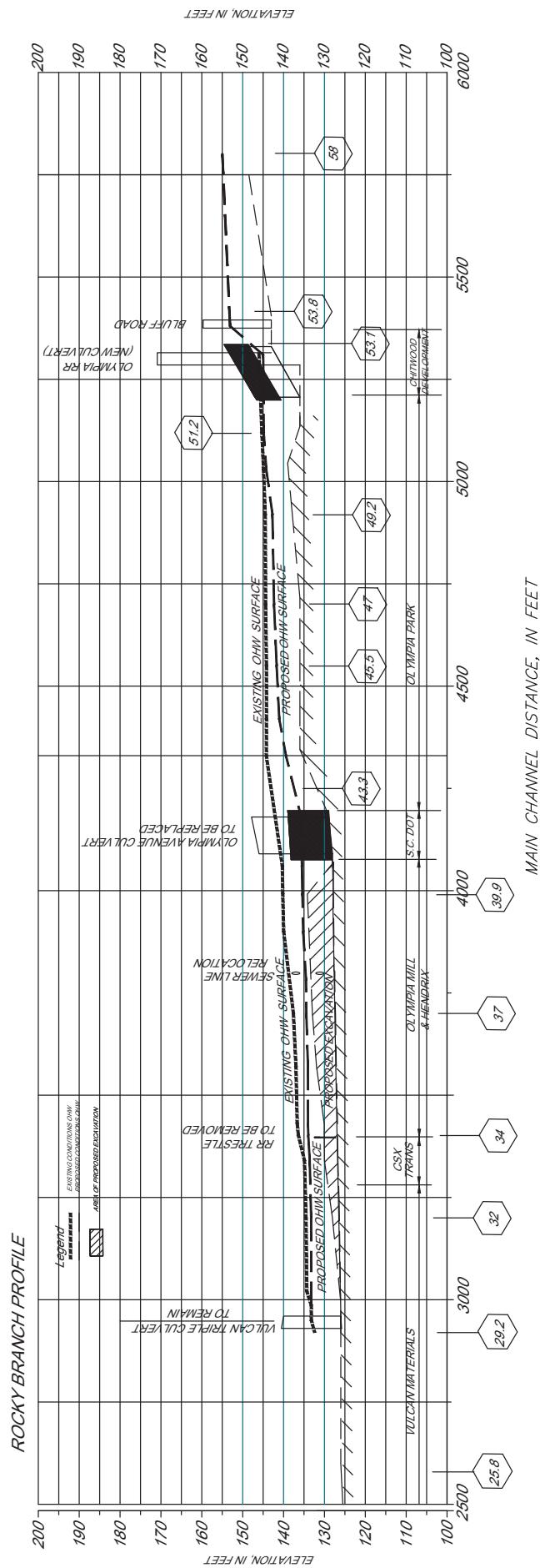
CROSS SECTIONS 39 + 00 AND 39 + 90
ROCKY BRANCH BANK STABILIZATION
W-REI
RICHLAND COUNTY

GRAPHIC SCALE

1 inch = nts feet



P.O. Box 3744
Columbia, SC 29208
Phone: (864) 271-9240
Fax: (864) 275-9298
DRAWN BY: LHB
DATE: 12/6/2020
EPC PROJECT NO.: 1694c



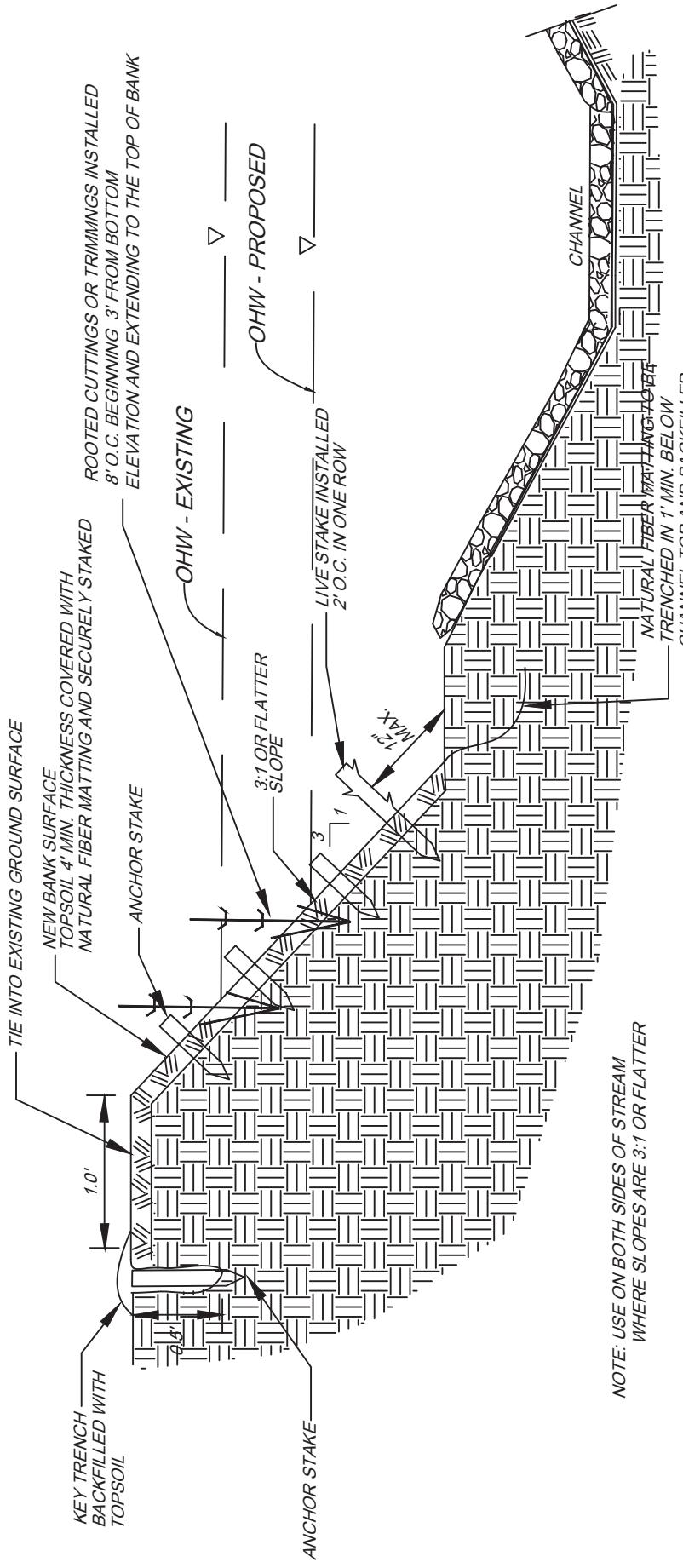
UPPER SLOPE STABILIZATION DETAIL - STA 31+00 TO 40+50

NTS

NOTE: USE ON BOTH SIDES OF STREAM
WHERE SLOPES ARE 3:1 OR FLATTER

NATURAL FIBER MAT TRENCHED IN 1' MIN. BELOW
CHANNEL TOP AND BACKFILLED.

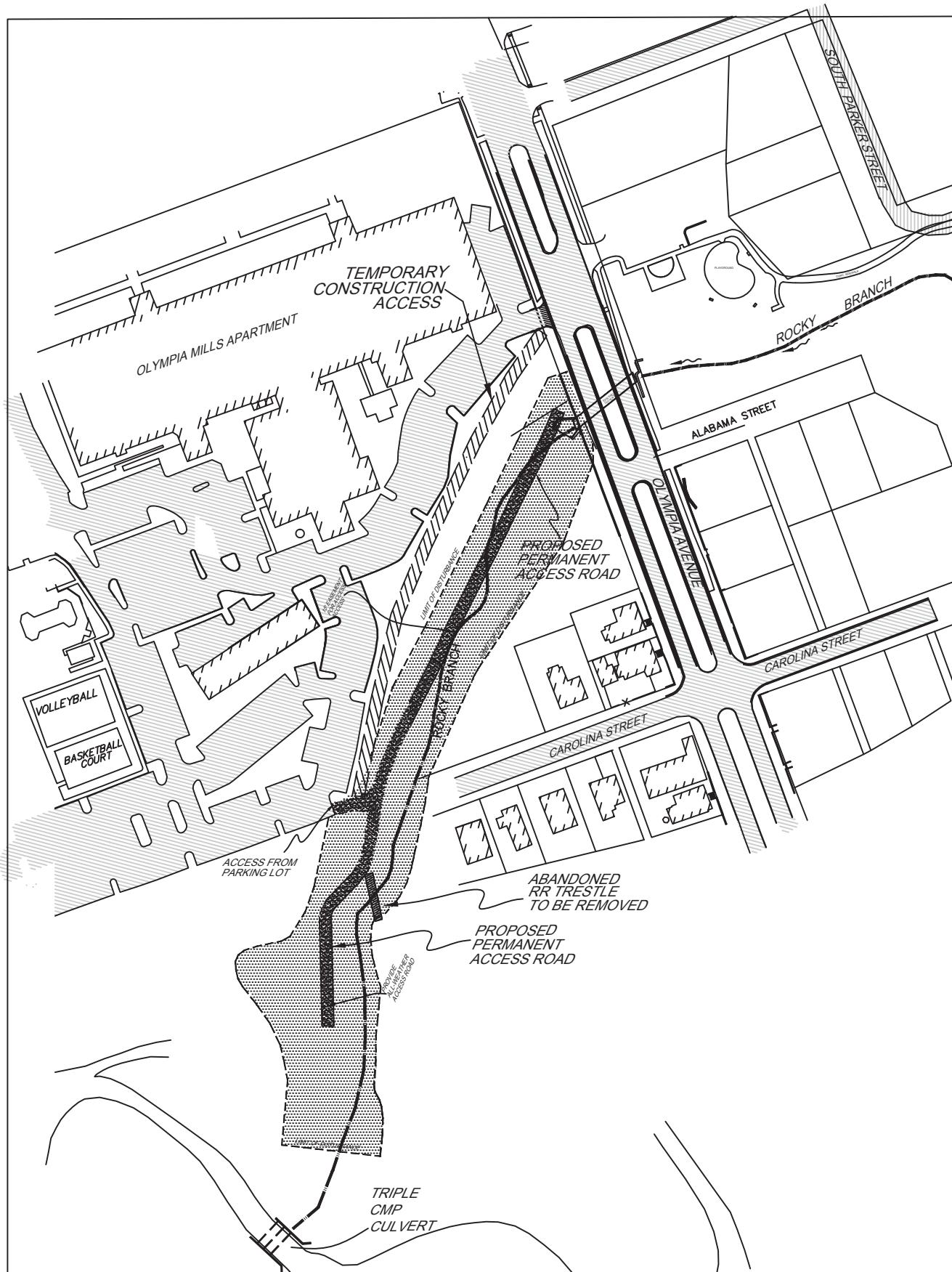
SAC-2012-00830 MODIFICATION Ballpark Assembly St, May 21, 2020, Sheet 34 of 43



- REFERENCE 1. BOUNDARY AND TOPOGRAPHIC SURVEY OF ROCKY BRANCH,
PREPARED BY SURVEY MATTERS, LLC., DATED AUGUST 29, 2014. WITH REVISIONS
THROUGH APRIL 15, 2016.
2. TOPOGRAPHIC SURVEY OF A PORTION OF ROCKY BRANCH, PREPARED BY SMITH
SURVEYORS, INC., DATED APRIL 20, 2016.

NOTES:

1. PROPERTY OWNERS: VULCAN MATERIALS, SARAH W. HENDRIX, OLYMPIA PROJECT OWNER, LLC (OLYMPIA MILLS), CSX TRANSPORTATION, RICHLAND COUNTY RECREATION COMMISSION, AND CHITWOOD DEVELOPMENT, LLC.
2. ADDRESS: VARIES
TMS: 08816-02-05, 8814-01-01, 8816-09-11, 8816-09-14A, 8816-02-20
ZONED: RM-HD
3. THE SITES WILL BE ACCESSIBLE FOR THIS WORK ONLY ON DAYS SPECIFIED BY THE PROPERTY OWNERS.
4. CONTRACTOR TO SCHEDULE A SITE VISIT BY OWNER, STREAM RESTORATION CONSULTANT, AND ENGINEER PRIOR TO BEGINNING WORK.
5. CONTRACTOR TO PROTECT EXISTING PAVEMENT AND FACILITIES AND REPAIR ANY DAMAGE.
6. CONTRACTOR TO RELOCATE ANY AffECTED STRUCTURES AS DIRECTED BY OWNER.
7. CONTRACTOR TO PAY ALL RICHLAND COUNTY RE-INSPECTION FEES.
8. EXCEPT IN THE DESIGNATED AREA OF DISTURBANCE, ALL HARDWOOD TREES ARE TO BE PROTECTED AND SAVED.
9. ALL RIPRAP IS TO BE PLACED ON FILTER CLOTH.
10. CLEARING IS TO BE LIMITED TO THE LEAST AREA PRACTICAL.
11. CONTRACTOR TO EMPLOY A CERTIFIED EROSION CONTROL INSPECTOR TO MONITOR SITE GRADING AND ADMINISTER THE SWPPP.
12. CONTRACTOR IS TO FOLLOW THE STREAM RESTORATION PLANS AND PERMITS, ALONG WITH THESE PLANS.
13. ALL WORK IS TO BE PERFORMED IN ACCORDANCE WITH ALL PERMITS.
14. CONTRACTOR IS TO NOTIFY CITY OF COLUMBIA PRIOR TO ANY WORK IN A CITY EASEMENT.
15. AFTER COMPLETION, CONTRACTOR IS TO PROVIDE AN AS-BUILT SURVEY PREPARED BY A REGISTERED LAND SURVEYOR.
16. SEE PLANS OF GENESIS CONSULTING GROUP FOR OLYMPIA AVENUE CULVERT REPLACEMENT FOR ADDITIONAL INFORMATION.
17. ALL SIDEWALKS, STRIPING & SIGNAGE TO BE ADA & MUTCD COMPLIANT
18. CONTRACTOR TO MAINTAIN CONTINUOUS STREAM FLOW DURING THE WORK.
19. ALL EXCAVATED MATERIAL IS TO BE REMOVED FROM THE SITE AND DISPOSED OF PROPERLY.
20. CONTRACTOR TO COMPLY WITH ALL SPECIAL CONDITIONS IMPOSED BY THE AFFECTED PROPERTY OWNERS.
21. STRUCTURAL MATERIALS ARE TO BE CLEAN AND FREE OF TOXINS WHICH WILL IMPACT AQUATIC ORGANISMS.



CONSTRUCTION ACCESS PLAN

SAC-2012-00830 MODIFICATION Ballpark Assembly St, May 21, 2020, Sheet 37 of 43

SAC-2012-00830 MODIFICATION Ballpark Assembly St, May 21, 2020, Sheet 37 of 43

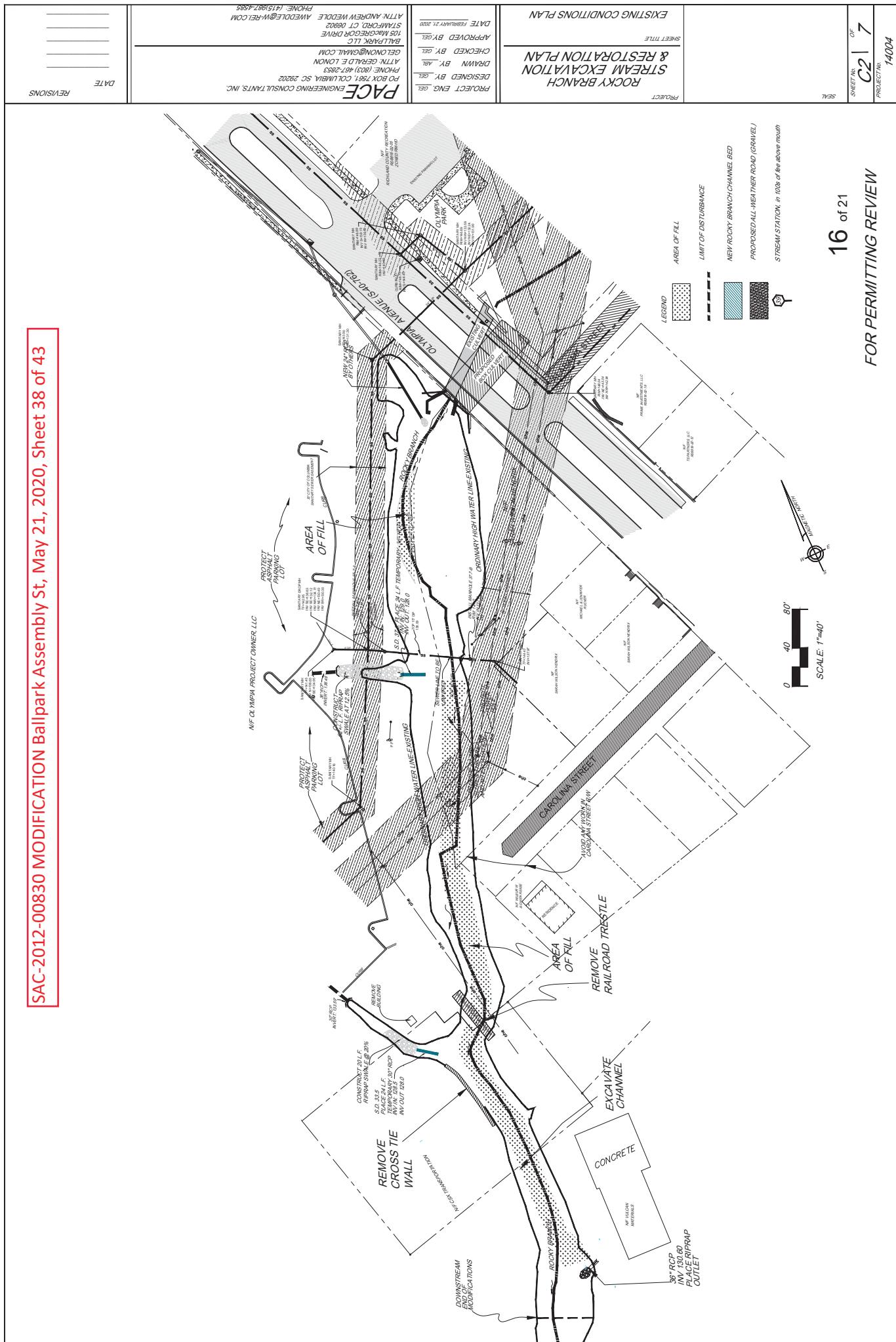
PROJECT PAC ENGINEERING CONSULTANTS, INC.
DESIGNED BY GEL
DRAWN BY ASL
CHECKED BY GEL
APPROVED BY GEL
DATE JUNE 17, 2020
STAMP/ADDRESS 105 MARGARET DRIVE
PHONE (603) 467-2823
EMAIL GELNOUN@GMAIL.COM
ATTN GEORGE LONON
PO BOX 7581, COLUMBIA SC 29202
WEBPAGE WWW.WEBSITE.COM
ATTN ANDREW MEDOLE AMEDOLE@W-RELCOM
PHONE (415) 887-4885

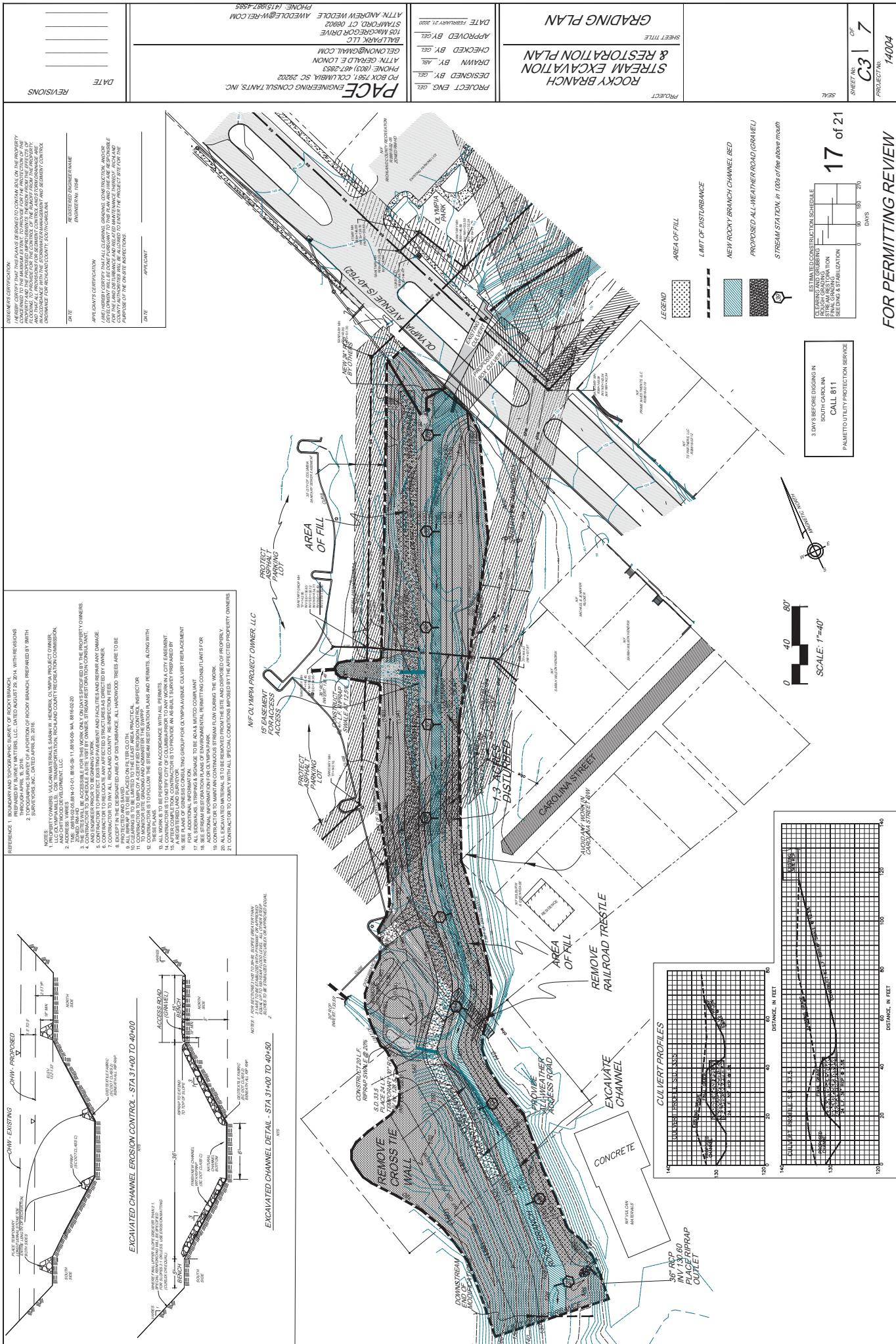
PROJECT ROCKY BRANCH STREAM RESTORATION & EXCAVATION PLAN
DESIGNED BY GEL
DRAWN BY ASL
CHECKED BY GEL
APPROVED BY GEL
DATE JUNE 17, 2020
STAMP/ADDRESS 105 MARGARET DRIVE
PHONE (603) 467-2823
EMAIL GELNOUN@GMAIL.COM
ATTN GEORGE LONON
PO BOX 7581, COLUMBIA SC 29202
WEBPAGE WWW.W-RELCOM
ATTN ANDREW MEDOLE AMEDOLE@W-RELCOM
PHONE (415) 887-4885

OVERALL CONSTRUCTION PLAN
STREET NAME C1 | 7
PROJECT NO. 14004

LEGEND

- AREA OF DISTURBANCE** Solid Black
- 100-YEAR FLOODPLAIN** Diagonal Hatching





SAC-2012-00830 MODIFICATION Ballpark Assembly St, May 21, 2020, Sheet 40 of 43

