

March 2020

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
1	2	3 COUNCIL AND CAUCUS 7:00 STORM WATER, STREETS AND UTILITIES 6:00	4 PLANNING COMMISSION 7:00 CAUCUS 6:45	5	6	7
8	9 CIVIL SERVICE COMM 4:00 (COMMUNITY ROOM #2)	10	11	12	13	14
15	16	17 COUNCIL AND CAUCUS 7:00 B&BC, FINANCE AND SAFETY 6:00	18 COUNCIL AND CAUCUS 7:00 B&BC, FINANCE AND SAFETY 6:00	19	20	21
22	23	24	25	26 BOARD OF ZONING APPEALS 7:00 CAUCUS 6:45	27	28
29	30	31 RECREATION BOARD 6:00				

All meetings will be held at City Hall 14600 State Road, unless otherwise noted.

**NORTH ROYALTON CITY COUNCIL
A G E N D A
MARCH 3, 2020**

7:00 p.m. Caucus

Council Meeting 7:00 p.m.

PUBLIC HEARING

1. Call to Order.
2. Roll Call.
3. Public Hearing:
 - A. APPLICATION SUBMITTED BY KENNETH AND BARBARA WILLIAMS FOR PLACEMENT OF 76.28 ACRES OF LAND LOCATED ON WILTSHIRE ROAD IN THE CITY OF NORTH ROYALTON, PPN'S 486-25-006, 486-25-008, 486-26-002 AND 486-27-001, IN AN AGRICULTURAL DISTRICT PURSUANT TO SECTION 929.02 OF THE OHIO REVISED CODE.
4. Adjournment.

REGULAR ORDER OF BUSINESS

1. Call to Order.
2. Opening Ceremony (Pledge of Allegiance).
3. Roll Call.
4. Approval of Consent Agenda: Items listed under the Consent Agenda are considered routine. Each item will be read individually into the record and the Consent Agenda will then be enacted as a whole by one motion and one roll call. There will be no separate discussion of these items. If discussion by Council is desired on any Consent Agenda item, or if discussion is requested by the public on any legislative item on the Consent Agenda, that item will be removed from the Consent Agenda and considered in its normal sequence under the Regular Order of Business.
 - a. Approval of Minutes: February 18, 2020
 - b. Authorize the Mayor and Service Director to advertise for bids for the 2020 Road Maintenance Program.
 - c. Authorize the Mayor and City Engineer to go out to bid for the 2020 Road Program.
5. Communications.
6. Mayor's Report.
7. Department Head Reports.
8. President of Council's Report.
9. Committee Reports:

Building & Building Codes	Linda Barath
Finance	Paul Marnecheck
Review & Oversight	Jeremy Dietrich
Safety	Dan Langshaw
Storm Water	Jessica Fenos
Streets	Vincent Weimer
Utilities	Mike Wos
10. Report from Council Representatives to regulatory or other boards:

Board of Zoning Appeals	Dan Langshaw
Planning Commission	Paul Marnecheck
Recreation Board	Jeremy Dietrich
11. Public Discussion: Five minute maximum, on current agenda legislation only.

12. LEGISLATION

THIRD READING CONSIDERATION

1. **20-37** - AN ORDINANCE AMENDING ORDINANCE 19-114 ESTABLISHING RATES OF COMPENSATION FOR THE CITY OF NORTH ROYALTON NON-UNION EMPLOYEES DURING CALENDAR YEAR 2020, AND DECLARING AN EMERGENCY. **First reading February 4, 2020. Second reading February 18, 2020.**
2. **20-39** - AN ORDINANCE AMENDING THE CODIFIED ORDINANCES OF THE CITY OF NORTH ROYALTON, PART TWO ADMINISTRATION CODE, CHAPTER 280 RECREATION BOARD, SECTION 280.09 RECOGNIZED CITY SPORTS PROGRAMS/COMPLIANCE REQUIREMENTS, PARAGRAPH (b)(4), AND DECLARING AN EMERGENCY. **First reading February 4, 2020. Second reading February 18, 2020.**
3. **20-40** - AN ORDINANCE AMENDING THE CODIFIED ORDINANCES OF THE CITY OF NORTH ROYALTON PART 12 PLANNING AND ZONING CODE, CHAPTER 1282 OFF-STREET PARKING AND LOADING, SECTION 1282.03 DEFINITIONS; MEASUREMENT STANDARDS, SECTION 1282.05 SCHEDULE OF PARKING REQUIREMENTS, SECTION 1282.10 PARKING AREA IMPROVEMENTS, SECTION 1282.12 CRITERIA TO DETERMINE BASIC STALL SIZE AND REPEALING PART 12 PLANNING AND ZONING CODE, CHAPTER 1282 OFF-STREET PARKING AND LOADING, SECTION 1282.13 TABLE OF DESIGN DIMENSIONS FOR VARIOUS PARKING ANGLES AND CREATING A NEW SECTION 1282.17 LANDSCAPING AND SCREENING, AND DECLARING AN EMERGENCY. **First reading February 4, 2020 and referred to Planning Commission and Building and Building Codes Committee. Building and Building Codes Committee recommended approval February 18, 2020. Second reading February 18, 2020.**
4. **20-41** - AN ORDINANCE TO MAKE APPROPRIATIONS FOR CURRENT EXPENSES AND OTHER EXPENDITURES OF THE CITY OF NORTH ROYALTON, STATE OF OHIO, DURING THE FISCAL YEAR ENDING DECEMBER 31, 2020. **First reading February 4, 2020 and referred to Finance Committee. Finance Committee recommended approval February 18, 2020. Second reading February 18, 2020.**

SECOND READING CONSIDERATION

1. **20-48** - AN ORDINANCE AMENDING THE CODIFIED ORDINANCES OF THE CITY OF NORTH ROYALTON, PART SIX GENERAL OFFENSES CODE, CHAPTER 618 ANIMALS, SECTION 618.12 HUNTING PROHIBITED, PARAGRAPH (a)(1)(F) AND SECTION 618.125 RULES AND REGULATIONS FOR THE ISSUANCE OF A MUNICIPAL DEER DAMAGE CONTROL PERMIT, PARAGRAPHS (a)(5) AND (a)(9), AND DECLARING AN EMERGENCY. **First reading February 18, 2020. Sponsorship withdrawn February 18, 2020.**
2. **20-49** - AN ORDINANCE AMENDING THE CODIFIED ORDINANCES OF THE CITY OF NORTH ROYALTON, PART TWO ADMINISTRATION CODE, CHAPTER 214 GENERAL FEE SCHEDULE, SECTION 214.04 FEES IN THE GENERAL OFFENSES CODE, PARAGRAPH (h), AND DECLARING AN EMERGENCY. **First reading February 18, 2020.**

FIRST READING CONSIDERATION

1. **20-50** - A RESOLUTION ESTABLISHING A CHARTER REVIEW COMMISSION, AND DECLARING AN EMERGENCY.
2. **20-51** - A RESOLUTION AUTHORIZING THE MAYOR TO EXECUTE THE "ONE OHIO" MEMORANDUM OF UNDERSTANDING FOR PARTICIPATION THEREIN WITH THE STATE OF OHIO TO NEGOTIATE A RESOLUTION TO THE PENDING LITIGATION INVOLVING THE "OPIOID" LAWSUIT AND DECLARING AN EMERGENCY.
3. **20-52** - AN ORDINANCE AUTHORIZING ALL ACTIONS NECESSARY TO ACCEPT NORTHEAST OHIO PUBLIC ENERGY COUNCIL (NOPEC) ENERGIZED COMMUNITY GRANT(S), AND DECLARING AN EMERGENCY.
4. **20-53** - AN ORDINANCE AMENDING ORDINANCE 10-103, STAFFING AND CLASSIFICATION PLAN FOR THE VARIOUS DEPARTMENTS OF THE CITY OF NORTH ROYALTON, SECTION 10 PUBLIC SERVICE DEPARTMENT, AND DECLARING AN EMERGENCY.

5. **20-54** - AN ORDINANCE AMENDING ORDINANCE 10-103, STAFFING AND CLASSIFICATION PLAN FOR THE VARIOUS DEPARTMENTS OF THE CITY OF NORTH ROYALTON, SECTION 11 WASTEWATER DEPARTMENT, AND DECLARING AN EMERGENCY.
 6. **20-55** - AN ORDINANCE GRANTING THE MAYOR AND FINANCE DIRECTOR AUTHORITY TO AGREE TO AND APPROVE CERTAIN CONTRACT CHANGES (CHANGE ORDER #1) RELATING TO THE WORK PERFORMED BY BROWN AND CALDWELL FOR THE NORTH ROYALTON WASTEWATER DEPARTMENT, AND DECLARING AN EMERGENCY.
 7. **20-56** - AN ORDINANCE AUTHORIZING THE MAYOR TO ENTER INTO A MEMORANDUM OF UNDERSTANDING WITH THE NORTHEAST OHIO REGIONAL SEWER DISTRICT FOR THE RIDGE ROAD REPAIR AND ROCKY RIVER TRIBUTARY STABILIZATION AND RE-ALIGNMENT, AND DECLARING AN EMERGENCY.
 8. **20-57** - A RESOLUTION DECLARING THE NECESSITY FOR APPROPRIATION AND ACQUISITION OF PERMANENT HIGHWAY AND ANCILLARY EASEMENTS AND RIGHT-OF-WAY INTERESTS (QUICK TAKE PROCEDURE) ON PORTIONS OF PERMANENT PARCEL NUMBERS 485-25-009, 485-25-011, 485-25-013 AND 485-25-015 IN THE CITY OF NORTH ROYALTON, FOR THE PUBLIC PURPOSE OF ROAD REPAIR, PRESERVATION AND STREAMBANK RESTORATION ON STATE ROUTE 3, RIDGE ROAD, AND DECLARING AN EMERGENCY.
13. Miscellaneous.
 14. Adjournment.

RESOLUTION NO. 20-50

INTRODUCED BY: Mayor Antoskiewicz
Co-Sponsor: Marnecheck

A RESOLUTION ESTABLISHING A CHARTER REVIEW COMMISSION,
AND DECLARING AN EMERGENCY

WHEREAS: Article XVIII(f) of the Charter of the City of North Royalton requires the appointment of a Charter Review Commission every four years for the purpose of recommending any alterations, revisions or amendments to the Charter which said Commission may deem advisable; and

WHEREAS: The membership of the City's Charter Review Commission must consist of nine (9) qualified electors of the City of North Royalton and the Director of Law; and

WHEREAS: The Mayor shall appoint five (5) members to the Charter Review Commission, and Council by majority vote shall appoint four (4) members to the Charter Review Commission; and

WHEREAS: Various names of qualified electors have been submitted for consideration; and

WHEREAS: After due deliberation, the Mayor and Council wish to appoint the members of the City's Charter Review Commission.

NOW, THEREFORE, BE IT RESOLVED BY THE COUNCIL OF THE CITY OF NORTH ROYALTON, COUNTY OF CUYAHOGA AND STATE OF OHIO, THAT:

Section 1. The Mayor hereby appoints the following five (5) individuals to serve on the City's Charter Review Commission:

Dave Nordstrom	Evie Novak
Paul Blair	Elisa DeLuca
Gary Medalis	

Section 2. Council hereby appoints the following four (4) individuals to serve on the City's Charter Review Commission:

Jim Petras	Michael Bonnacci
Terry Daley	Arlene Miciunas

Section 3. Said Charter Review Commission is hereby empowered to consider and recommend any alterations, revisions, or amendments to the City Charter, which in the opinion of the majority of the members of the Commission, would enhance the efficiency and quality of the government of the City of North Royalton.

Section 4. Said Commission shall be in effect and force until it has concluded its duties under Article XVIII(f) of the City Charter.

Section 5. It is found and determined that all formal actions of this Council concerning and relating to the adoption of this Resolution were adopted in an open meeting of this Council and that all deliberations of this Council and any of its committees that resulted in such formal action were in meetings open to the public in compliance with all legal requirements.

Section 6. This Resolution is hereby declared to be an emergency measure immediately necessary for the preservation of the public peace, health, safety and welfare of the city, and for the further reason that it is immediately necessary to appoint the aforementioned Commission and obtain its viewpoint and any recommendations regarding the present effectiveness of the City Charter.

RESOLUTION NO. 20-51

INTRODUCED BY: Mayor Antoskiewicz
Co-Sponsor: Langshaw, Marnecheck

A RESOLUTION AUTHORIZING THE MAYOR TO EXECUTE THE “ONE OHIO” MEMORANDUM OF UNDERSTANDING FOR PARTICIPATION THEREIN WITH THE STATE OF OHIO TO NEGOTIATE A RESOLUTION TO THE PENDING LITIGATION INVOLVING THE “OPIOID” LAWSUIT AND DECLARING AN EMERGENCY

WHEREAS: The City of North Royalton, Ohio (herein “Municipality”) is a municipal corporation formed and organized pursuant to the Constitution and laws of the State of Ohio and the Charter of the City of North Royalton; and

WHEREAS: The people of the State of Ohio and its communities have been significantly harmed by misfeasance, nonfeasance and malfeasance committed by certain entities within the Opioid Pharmaceutical Supply Chain; and

WHEREAS: The State of Ohio, through its Attorney General, and certain Local Governments, through their elected representatives and counsel, are separately engaged in litigation seeking to hold Opioid Pharmaceutical Supply Chain Participants accountable for the damage caused by their misfeasance, nonfeasance and malfeasance; and

WHEREAS: The State of Ohio, through its Governor and Attorney General, and its Local Governments share a common desire to abate and alleviate the impacts of that misfeasance, nonfeasance and malfeasance throughout the State of Ohio; and

WHEREAS: The State and its Local Governments, subject to completing formal documents effectuating the Parties Agreements, have drafted a “One Ohio” Memorandum of Understanding (“MOU”) relating to the allocation and the use of the proceeds of any potential settlements described; and

WHEREAS: The MOU has been collaboratively drafted to maintain all individual claims while allowing the State and Local Governments to cooperate in exploring all possible means of resolution; and

WHEREAS: The MOU does not bind any party to a specific outcome; and

WHEREAS: Any resolution under the MOU will require acceptance by the State of Ohio and the Local Governments; and

WHEREAS: Council understands that the purpose of the MOU is to permit collaboration between the State of Ohio and Local Governments to explore and potentially effect an early resolution of the Opioid Litigation against Opioid Pharmaceutical Supply Chain Participants; and

WHEREAS: Council understands that an additional purpose is to create an effective means of distributing any potential settlement funds obtained under the MOU between the State of Ohio and Local Governments in a manner and means that would promote an effective and meaningful use of the funds in abating the opioid epidemic throughout Ohio; and

WHEREAS: Council wishes to agree to and authorize the Mayor to execute the non-binding Memorandum of Understanding.

NOW THEREFORE, BE IT RESOLVED BY THE COUNCIL OF THE CITY OF NORTH ROYALTON, COUNTY OF CUYAHOGA AND STATE OF OHIO, THAT:

Section 1. The Mayor, on behalf of the City of North Royalton, is authorized to execute the “One Ohio” Memorandum of Understanding, a copy of which is on file with the office of the Director of Legislative Services and is incorporated by reference herein.

Section 2. It is found and determined that all formal actions of this Council concerning and relating to the adoption of this Resolution were adopted in an open meeting of this Council and that all deliberations of this Council and any of its committees that resulted in such formal action were in meetings open to the public in compliance with all legal requirements.

Section 3. This Resolution is hereby declared to be an emergency measure necessary for the immediate preservation of the public peace, health, safety and welfare of the city, and for the further reason that it is immediately necessary to execute this Memorandum of Understanding to allow for participation with the State in this effort.

NOPEC 2020 ENERGIZED COMMUNITY

GRANT AGREEMENT

This Grant Agreement (the “Agreement”) is made and entered into by and between NOPEC, Inc. (“Grantor”), and The City of North Royalton, Cuyahoga County, Ohio (“Grantee”; “Grantor” and “Grantee,” the “Parties”) regarding a grant by Grantor to Grantee to be used primarily for energy efficiency or energy infrastructure projects in accordance with NOPEC Energized Community Grant criteria, guidelines and requirements (“NOPEC Policy”).

NOW, THEREFORE, in consideration of the foregoing and the mutual promises and covenants hereinafter set forth, the Parties hereby agree as follows:

1. **Grant of Funds.** Grantor hereby grants a NOPEC Energized Community Grant (“NEC Grant”) to Grantee in the amount calculated by Grantor based on the number of natural gas and/or electric accounts served by Grantor in Grantee in accordance with NOPEC Policy in the amount determined by Grantor (“Funds”), for the purposes set forth in Grantee’s Grant Application, as amended, and incorporated by reference into this Agreement.

2. **Use of Funds.** Grantee shall use the Funds granted by Grantor for the Project(s) approved by Grantor. Funds shall be paid in accordance with NOPEC Policy. NEC Grant disbursements shall be accompanied by a completed Disbursement Request Form with the expenditures supported by contracts, invoices, vouchers, and other data as appropriate as supporting documents. All disbursements for an approved 2020 NEC grant project must be requested by December 10, 2021. If Grantee does not request disbursements for the Project(s) approved by Grantor on or before such date, Grantee shall forfeit any unused Funds for the NOPEC 2020 Grant year. For NEC Grants in subsequent years, subject to NOPEC Policy in effect at the time, all disbursements for an approved project must be requested no later than December 10th of the year following the original grant year, or Grantee shall forfeit any unused funds.

3. **Accounting of Funds.** Grantee shall keep all Funds and make all disbursements and expenditures consistent with the manner in which all public funds are kept by Grantee in accordance with applicable law.

4. **Term.** The Parties agree that this Agreement shall begin on January 1, 2020, and shall expire on December 31, 2020, and shall be automatically renewed annually unless Grantor discontinues the NEC Grant program for any subsequent year or Grantee is no longer a NOPEC member in good standing, as defined herein.

5. **Renewable Energy Credits.** Grantee shall be entitled to claim Renewable Energy Credits, carbon credits, or NOx allowances and/or allowances arising under other trading programs that may be established in the future for the Project(s). Grantor reserves the right to claim/apply for such allowances if Grantee does not claim such allowances or this Agreement terminates. Grantee must notify Grantor if Grantee does not wish to trade or sell any such credits or assets.

6. **Records, Access and Maintenance.** Grantee shall establish and maintain all records associated with the Funds in accordance with the Ohio Public Records Act and shall promptly make available to Grantor all of its records with respect to matters covered by this Agreement, and for Grantor to audit, examine and make copies from such records. Grantee agrees

to share and release all of its utility and other data with NOPEC, Inc. and Grantor and its consultant(s) in order to measure, verify and otherwise track savings from energy efficiency and for such other related uses as Grantor shall require.

7. **Property and Equipment Purchases.** All items purchased by Grantee from the Funds granted herein are and shall remain the property of Grantee.

8. **Inability to Perform.** In the event that Grantee does not or cannot complete the Project(s) or perform its obligations under this Agreement, Grantee shall immediately notify Grantor in writing. Grantor, with the approval of the Committee formed to award NEC Grants (the "Committee"), and Grantee shall jointly identify Project amendments or suitable Project(s) that meet NOPEC Policy.

9. **Dispute Resolution.** In the event Grantee desires clarification or explanation of, or disagrees with, any matter concerning the Agreement, or the interpretation or application of any and all federal or state statutes, rules, regulations, laws or ordinances, the matter must be submitted in writing to Grantor, which shall convene the Committee to review and decide the matter. All decisions of the Committee shall be final and binding upon Grantee, and non-appealable.

10. **Termination.**

(a) If Grantor determines that Grantee has failed to perform any requirements of this Agreement, or if Grantee is in default under any provision of this Agreement, or upon just cause, as shall be determined by the Committee, Grantor, upon approval by the Committee, may terminate the Agreement at any time after providing Grantee with written notice and a period of at least thirty (30) days to cure any and all defaults under this Agreement. During such thirty day cure period, Grantee shall incur only those obligations or expenditures which are necessary to enable Grantee to continue to achieve compliance with the terms of this Agreement.

(b) This Agreement shall automatically terminate if Grantee is not a NOPEC member in good standing. A NOPEC member in good standing means a Northeast Ohio Public Energy Council ("NOPEC" or "Northeast Ohio Public Energy Council") member whose residents are receiving service from Northeast Ohio Public Energy Council's natural gas or electric aggregation program and which has not provided written notice to withdraw from such Northeast Ohio Public Energy Council's natural gas or electric aggregation program.

11. **Effects of Termination.**

(a) Within sixty (60) days after termination of this Agreement, Grantee shall surrender all reports, data, documents, and other materials assembled and prepared pursuant to this Agreement which shall become the property of Grantor. Upon surrender of such material, Grantee shall receive Funds only as to a Project that had been approved for a NEC Grant by Grantor prior to such termination.

(b) The Committee also may withhold final installment payment of the Funds or require Grantee to return all or any part of the Funds awarded if Grantee is found to have violated the provisions of this Agreement. Notwithstanding any other provision in this Agreement, if Grantee either withdraws from membership in the Northeast Ohio Public Energy Council or from

its electric or natural gas aggregation program(s), Grantee shall no longer be eligible for any NEC Grants. The provisions of this paragraph are in addition to the termination provisions of this Agreement and to any payments required under the Northeast Ohio Public Energy Council Bylaws and the Northeast Ohio Public Energy Council of Governments Agreement with its member communities in connection with any such withdrawal.

12. **Liability.** Grantee shall maintain, or cause any vendors or subcontractors to maintain, all required liability and property insurance to cover actionable legal claims for liability or loss which are the result of injury to or death of any person, damage to property caused by the negligent acts or omissions, or negligent conduct of the Grantee. To the extent permitted by law, in connection with activities conducted in connection with this Agreement, Grantee agrees to defend Grantor and pay any judgments and costs arising out of such negligent acts or omissions, and nothing in this Agreement shall impute or transfer any liability of any nature whatsoever from Grantee to NOPEC, Inc. or the Northeast Ohio Public Energy Council.

13. **Compliance with Laws.** Grantee agrees to comply with all applicable federal, state, and local laws in the performance of the Project. Grantee is solely responsible for payments of all unemployment compensation, insurance premiums, workers' compensation premiums, all income tax deductions, social security deductions, and any and all other taxes or payroll deductions required for all employees engaged by Grantee on the performance of the work authorized by this Agreement.

14. **Miscellaneous.**

(a) **Governing Law.** The laws of the State of Ohio shall govern this Agreement. All actions regarding this Agreement shall be venued in a court of competent subject matter jurisdiction in Cuyahoga County, Ohio.

(b) **Entire Agreement.** This Agreement and any documents referred to herein constitute the complete understanding of the Parties and merge and supersede any and all other discussions, agreements and understandings, either oral or written, between the Parties with respect to the subject matter hereof.

(c) **Severability.** Whenever possible, each provision of this Agreement shall be interpreted in such manner as to be effective and valid under applicable law, but if any provision of this Agreement is held to be prohibited by or invalid under applicable law, such provision shall be ineffective only to the extent of such prohibition or invalidity, without invalidating the remainder of such provisions of this Agreement.

(d) **Notices.** All notices, consents, demands, requests and other communications which may, or are required to be, given hereunder shall be in writing and delivered to the addresses set forth hereunder or to such other address as the other party hereto may designate from time to time:

In case of NOPEC, to:

Charles W. Keiper, II
President
NOPEC, Inc.
31360 Solon Road
Suite 33
Solon, OH 44139

In case of Grantee, to:

Title: _____
Name: _____

_____, Ohio _____

(e) Amendments or Modifications. Either party may at any time during the term of this Agreement request amendments or modifications. Requests for amendment or modification of this Agreement shall be in writing and shall specify the requested changes and justification therefor. The Parties shall review the request for modification in terms of the Project and NOPEC Policy. Should the Parties consent to modification of the Agreement, then an amendment shall be drawn, approved, and executed in the same manner as the original Agreement.

(f) Headings. Section headings contained in this Agreement are inserted for convenience only and shall not be deemed to be a part of this Agreement.

(g) Assignment. Neither this Agreement nor any rights, duties or obligations described herein, shall be assigned or subcontracted by Grantee without the prior express written consent of Grantor.

(h) Authority. The undersigned represents and warrants to the other that each has all the necessary legal power and authority to enter into this Agreement.

(i) Determinations by Grantor Final. All determinations as to eligibility of any project for an award of any NEC Grant, and the amount and payment schedule of a NEC Grant, will be made by Grantor and its Committee, which shall be final, conclusive and binding upon Grantee.

(j) Designation of Grantee Representative. Grantee hereby designates its [Fiscal Officer or other position] to take all actions with respect to the NEC Grant and this Agreement as may be required and Grantor shall be entitled to rely on the authority of such designated representative of Grantee in connection with this Agreement.

(k) Marketing Consent. Grantee hereby authorizes NOPEC, Inc. and Grantor to use information about Grantee's grant(s) and project(s) in any marketing they may conduct, and agrees to cooperate with Grantor in connection with such marketing.

[Signature Page to Follow.]

IN WITNESS WHEREOF, the Parties hereto have executed this Grant Agreement on the last date set forth below.

GRANTEE:

NOPEC, INC.:

_____, Ohio

Individual Authorized by Grantee's
Legislation

By: _____

By: _____

Title: _____

Title: _____

Date: _____

Date: _____

[Signature page to NOPEC 2020 Energized Community Grant Agreement.]

ORDINANCE NO. 20-53

INTRODUCED BY: Mayor Antoskiewicz
Co-Sponsor: Marnecheck

AN ORDINANCE AMENDING ORDINANCE 10-103, STAFFING AND CLASSIFICATION PLAN FOR THE VARIOUS DEPARTMENTS OF THE CITY OF NORTH ROYALTON, SECTION 10 PUBLIC SERVICE DEPARTMENT, AND DECLARING AN EMERGENCY

WHEREAS: In an effort to better serve the community, the Administration has proposed the restructuring of various departments to ensure that they are functioning as efficiently as possible; and

WHEREAS: It is therefore necessary to amend Ordinance 10-103 to allow for these changes; and

WHEREAS: Council desires to provide for this amendment.

NOW, THEREFORE, BE IT ORDAINED BY THE COUNCIL OF THE CITY OF NORTH ROYALTON, COUNTY OF CUYAHOGA AND STATE OF OHIO, THAT:

Section 1. Council hereby amends Ordinance No. 10-103, Staffing and Classification Plan, Section 10 Public Service Department, which shall hereinafter read as follows:

Section 10. The **Public Service Department** may employ and be staffed by employees classified in the following classifications providing that there shall be no greater number of employees employed in any one classification than specified herein.

<u>CLASSIFICATION (Job Title)</u>	<u>MAXIMUM NO. OF EMPLOYEES</u>
1) Service Director	One (1)
2) Stormwater Superintendent	One (1)
3) Service Superintendent	One (1)
4) Mechanic	Two (2)
5) Motor Equipment Operator	Two (2)
6) Laborers	Twenty Eight (28) Twenty Four (24)
7) Laborers (part-time)	Two (2)
8) Summer Help Laborers	Six (6)
9) Admin. Secretary/Clerical	Two (2)

Section 2. Ordinance No. 10-103 is amended as provided for herein and all other provisions of Ordinance No. 10-103 shall remain in full force and effect.

Section 3. This Ordinance shall supersede all previously adopted ordinances in direct conflict herewith.

Section 4. It is found and determined that all formal actions of this Council concerning and relating to the adoption of this Ordinance were adopted in an open meeting of this Council and that all deliberations of this Council and any of its committees that resulted in such formal action were in meetings open to the public in compliance with all legal requirements.

Section 5. This Ordinance is hereby declared to be an emergency measure immediately necessary for the preservation of the public peace, health, safety and welfare of the city, and for the further reason that Council and the Administration have determined that it is immediately necessary to provide for these staffing changes in the various departments of the City of North Royalton.

ORDINANCE NO. 20-54

INTRODUCED BY: Mayor Antoskiewicz
Co-Sponsor: Marnecheck

AN ORDINANCE AMENDING ORDINANCE 10-103, STAFFING AND CLASSIFICATION PLAN FOR THE VARIOUS DEPARTMENTS OF THE CITY OF NORTH ROYALTON, SECTION 11 WASTEWATER DEPARTMENT, AND DECLARING AN EMERGENCY

WHEREAS: In an effort to better serve the community, the Administration has proposed the restructuring of various departments to ensure that they are functioning as efficiently as possible; and

WHEREAS: It is therefore necessary to amend Ordinance 10-103 to allow for these changes; and

WHEREAS: Council desires to provide for this amendment.

NOW, THEREFORE, BE IT ORDAINED BY THE COUNCIL OF THE CITY OF NORTH ROYALTON, COUNTY OF CUYAHOGA AND STATE OF OHIO, THAT:

Section 1. Council hereby amends Ordinance No. 10-103, Staffing and Classification Plan, Section 11 Wastewater Department, which shall hereinafter read as follows:

Section 11. The **Wastewater Department** may employ and be staffed by employees classified in the following classifications providing that there shall be no greater number of employees employed in any one classification than specified herein.

<u>CLASSIFICATION (Job Title)</u>	<u>MAXIMUM NO. OF EMPLOYEES</u>
1) Superintendent	One (1)
2) Superintendent in Training	One (1)
3) Assistant Supt. - Operations	One (1)
4) Assistant Supt. – Maintenance	One (1)
5) Lab Technician	Three (3)
6) Certified Operator	Seven (7)
Certified I-II-III	
7) Operator/Technician In Training	One (1)
8) Laborer I-II-III and/or Motor Equipment Operator	Seven (7) Eleven (11)
9) Mechanic	One (1)
10) Clerical/bookkeeper	One (1)
11) Inspector	One (1)
12) Summer Help Laborers (part time)	Two (2)
13) Project Manager (temporary, part time)	One (1)
14) Stormwater Supervisor	One (1)

Section 2. Ordinance No. 10-103 is amended as provided for herein and all other provisions of Ordinance No. 10-103 shall remain in full force and effect.

Section 3. This Ordinance shall supersede all previously adopted ordinances in direct conflict herewith.

Section 4. It is found and determined that all formal actions of this Council concerning and relating to the adoption of this Ordinance were adopted in an open meeting of this Council and that all deliberations of this Council and any of its committees that resulted in such formal action were in meetings open to the public in compliance with all legal requirements.

Section 5. This Ordinance is hereby declared to be an emergency measure immediately necessary for the preservation of the public peace, health, safety and welfare of the city, and for the further reason that Council and the Administration have determined that it is immediately necessary to provide for these staffing changes in the various departments of the City of North Royalton.

T: 216.606.1300



February 14, 2020

Mark Smith
City of North Royalton
11675 Royalton Road
North Royalton, Ohio 44133

Project No. 152883

Subject: Scope Modifications and Fee Summary

Dear Mr. Smith,

Brown and Caldwell originally entered into contract with the City in October 2018 to complete the Blower Building, Control Building and Miscellaneous Improvements project for Wastewater Plant A. The scope of the project includes preliminary design, detailed design, bidding services and limited construction administration. The basis of design report serves as defining scope of services as project advances into detailed design. Throughout design additional plant upgrades have been identified and at your request, Brown and Caldwell has assimilated these changes into the project plans and specifications. As a result, the design has been an iterative process. The purpose of this letter is to document and support the change request as a modification in schedule and fee.

Original Scope of Work

The wastewater treatment plant requires several improvements across the plant as originally defined in the scope of services. The project makes changes to the Blower Building, Controls Building, Administrative Building and Aeration Tanks. A general description of the original scope of work for each area, included the following:

- Blower Building, Control Building and Administrative Building all require rehabilitation and upgrades to fix roofs, refurbish interiors, add/upgrade bathroom facilities, replace furniture, making structural, architectural, and HVAC/plumbing improvements.
- Replace Power Distribution Equipment, MCCs, and protect power feed from flooding.
- Replace aeration system blowers and digester blowers, evaluating rehab or replacement, fix air leaks, updates to electrical and controls
- Replace ferric chloride tank and feed equipment.
- Aeration tank improvements to the air piping

Table 1 is a summary of the original fee associated with these improvements:

Table-1. Original Scope and Fee							
North Royalton Blower Building, Control Building and Miscellaneous Improvements							
Phase	Phase Description	Total Labor Hours	Total Labor Effort	Total ODCs	Total Sub Cost	Total Ex-pense Effort	Total Effort
100	Basis of Design	765	\$121,400	\$7,384	\$25,200	\$32,584	\$153,988
200	Design	1,780	\$300,418	\$4,000	\$138,700	\$142,700	\$443,118
300	Bidding	146	\$22,475	0	\$2,800	\$2,800	\$25,275
400	CA/RE	1,426	\$233,615	\$9,600	\$25,000	\$34,600	\$268,215
	TOTAL	4,117	\$677,912	\$20,984	\$191,700	\$212,684	\$890,596

Modifications to Design Scope

Through the detailed design process several changes have been made at the recommendation of the design team or at the request of the City to address project needs in design rather than address these items in construction to avoid undue cost to the City. A summary of the changes are as follows:

- Relocation of the ferric chloride tanks to reduce piping and modifications to dosing locations for improved system operational flexibility.
- Site paving and buried utility service improvements
- Modifications to plumbing and HVAC systems
- Additional eyewash station to meet safety requirements
- Various process equipment and I&C component replacements
- Modifications to the bathroom facilities and lockers to accommodate more staff

Modifications to Construction Activity

The design team performed a constructability evaluation and determined that the construction sequence for several of the activities will extend the overall construction period from the original one year duration to two years. This is the result of the following activities:

- Needing full roof replacements on the buildings in place of repair work
- Sequencing treatment process shutdowns while maintaining plant operations
- Electric utility service main power feed and transformer replacement

The additional CA/RE services include additional submittals to coincide with the design modifications, extension of services due to extended contract duration, additional residential service, onsite meetings and review of contractors work and progress.

Cost Summary

Through the several design modifications and identified construction activity, the design team has identified the following addition fee:

Table-2. Scope Changes and Fee				
North Royalton Blower Building, Control Building and Miscellaneous Improvements				
Item	Description	Brown and Caldwell	Subconsultants	Total Effort
1	Overall Additional Design Fee	\$30,433.83	\$70,680.00	\$101,113.83
2	Overall Additional Construction Fee	\$268,842.36	\$20,500.00	\$289,342.36
	TOTAL	\$299,276.19	\$91,180.00	\$390,456.19

Mark Smith
City of North Royalton
February 14, 2020
Page 3

Brown and Caldwell appreciates the opportunity to assist the City with this project.
Should you have any questions, please do not hesitate to call me at 216-606-1301.

Very truly yours,

Brown and Caldwell

A handwritten signature in blue ink that reads "Anthony J. Blanc". The signature is written in a cursive style with a long horizontal line extending from the end.

Anthony Blanc, Project Manager
Cleveland Office Lead

cc: Michael Garnes, Brown and Caldwell

AN ORDINANCE AUTHORIZING THE MAYOR TO ENTER INTO A MEMORANDUM
OF UNDERSTANDING WITH THE NORTHEAST OHIO REGIONAL SEWER
DISTRICT FOR THE RIDGE ROAD REPAIR AND ROCKY RIVER TRIBUTARY
STABILIZATION AND RE-ALIGNMENT, AND DECLARING AN EMERGENCY

- WHEREAS: The City, pursuant to Ohio Revised Code Section 723.01, has special power to regulate the use of the streets and is responsible for the care, supervision, and control of the streets within the City; and
- WHEREAS: The fill and embankment of a segment of the southbound lane of Ridge Road (State Route 3) in North Royalton (the “Road”), south of Cady Road is failing and requires immediate stabilization for the safety and use of the road by the traveling public; and
- WHEREAS: The source of the failing segment of the Road is a stream tributary to the East Branch of the Rocky River that is traversing the parcels located adjacent to the Road, which has laterally eroded the roadway embankment to the edge of the pavement; and
- WHEREAS: Prior efforts of the City to abate the lateral erosion and provide more enduring stabilization to the Road have been unsuccessful as proximity of the stream continues to erode the roadway embankment supporting the Road during periods of wet weather; and
- WHEREAS: The City has been notified by the Ohio Department of Transportation (ODOT) that the Road is in need of repair due to the tributary eroding the roadway embankment fill and asphalt shoulder which will eventually result in the erosion of the southbound lane of Ridge Road, SR -3; and
- WHEREAS: The City has determined that the only practical long-term solution to the continuing erosion causing destabilization of the Road is the re-routing of the stream away from the Road to help avoid imminent failure and destabilization of the Road; and
- WHEREAS: The District, pursuant to the authority of Ohio Revised Code Chapter 6119, and Title V Stormwater Management Code of the District’s Code of Regulations (“Title V”) is authorized to provide overall Stormwater Management of the Regional Stormwater System, including planning, financing, design, improvement, construction, inspection, monitoring, maintenance, operation, and regulation for the proper handling of stormwater runoff and the development and provision of technical support information and services to member communities; and
- WHEREAS: The City and the District entered into a Regional Stormwater Management Program Service Agreement dated October 1, 2013, which was subsequently amended on May 20, 2016 (the “RSMP Service Agreement”); and
- WHEREAS: The stream is located on the Regional Stormwater System, as such term is defined in Title V; and
- WHEREAS: The parties desire to work cooperatively to abate the erosion of the roadway embankment and stabilize the Road by relocating the stream away from the Road to reduce the risk of future erosion and to rebuild the eroded roadway embankment (the “Project”); and
- WHEREAS: The relocation incorporates natural channel design techniques to construct a new stream channel with in-stream structures that ensure a stable stream and improve ecological function and will effectuate a long-term solution for the protection of the Road; and
- WHEREAS: Due to the District’s proficiency and experience in such stream relocation and stabilization, management of the Regional Stormwater System and the impact of the Project on the Regional Stormwater System, the parties have determined that the Project is best managed by the District; and

Cooperative Agreement

between

Northeast Ohio Regional Sewer District

and

City of North Royalton

for

Ridge Road Repair and Rocky River Tributary Stabilization and Re-Alignment

THIS AGREEMENT is made this ____ day of _____, 2020, between the Northeast Ohio Regional Sewer District (“District”), a regional sewer district organized and existing as a political subdivision of the State of Ohio under Chapter 6119 of the Ohio Revised Code, pursuant to the authority of Board of Trustees Resolution No. _____, adopted _____, and the City of North Royalton (“City”), pursuant to the authority of City Council Ordinance No. ____, passed _____, collectively, the “Parties.”

RECITALS:

WHEREAS, the City, pursuant to Ohio Revised Code Section 723.01, has special power to regulate the use of the streets and is responsible for the care, supervision, and control of the streets within the City;

WHEREAS, the fill and embankment of a segment of the southbound lane of Ridge Road (State Route 3) in North Royalton (the “Road”), south of Cady Road is failing and requires immediate stabilization for the safety and use of the road by the traveling public; and

WHEREAS, the source of the failing segment of the Road is a stream tributary to the East Branch of the Rocky River that is traversing the parcels located adjacent to the Road, which has laterally eroded the roadway embankment to the edge of the pavement; and

WHEREAS, prior efforts of the City to abate the lateral erosion and provide more enduring stabilization to the Road have been unsuccessful as proximity of the stream continues to erode the roadway embankment supporting the Road during periods of wet weather; and

WHEREAS, the City has been notified by the Ohio Department of Transportation (ODOT) that the Road is in need of repair due to the tributary eroding the roadway embankment fill and asphalt shoulder which will eventually result in the erosion of the southbound lane of Ridge Road, SR -3.

WHEREAS, the City has determined that the only practical long-term solution to the continuing erosion causing destabilization of the Road is the re-routing of the stream away from the Road to help avoid imminent failure and destabilization of the Road; and

WHEREAS, the District, pursuant to the authority of Ohio Revised Code Chapter 6119, and Title V Stormwater Management Code of the District's Code of Regulations ("Title V") is authorized to provide overall Stormwater Management of the Regional Stormwater System, including planning, financing, design, improvement, construction, inspection, monitoring, maintenance, operation, and regulation for the proper handling of stormwater runoff and the development and provision of technical support information and services to member communities; and

WHEREAS, the City and the District entered into a Regional Stormwater Management Program Service Agreement dated October 1, 2013, which was subsequently amended on May 20, 2016 (the “RSMP Service Agreement”); and

WHEREAS, the stream is located on the Regional Stormwater System, as such term is defined in Title V; and

WHEREAS, the parties desire to work cooperatively to abate the erosion of the roadway embankment and stabilize the Road by relocating the stream away from the Road to reduce the risk of future erosion and to rebuild the eroded roadway embankment (the “Project”); and

WHEREAS, the relocation incorporates natural channel design techniques to construct a new stream channel with in-stream structures that ensure a stable stream and improve ecological function and will effectuate a long-term solution for the protection of the Road; and

WHEREAS, due to the District’s proficiency and experience in such stream relocation and stabilization, management of the Regional Stormwater System and the impact of the Project on the Regional Stormwater System, the parties have determined that the Project is best managed by the District; and

WHEREAS, the District is authorized to perform the Project, generally, under Ohio Revised Code Chapter 6119, and specifically, under Ohio Revised Code Section 6119.06(G) to contract with any political subdivision to construct, reconstruct, enlarge, improve, maintain, repair, and operate Water Resource Projects; and under Ohio Revised Code Section 6119.09 to enter into agreements with political subdivisions for the effective cooperative action and safeguarding of the respective interests of the parties for the

construction and funding of projects by one or more of the parties; and is authorized under Ohio Revised Code Section 6119.06 (O) to make and enter into all contracts and agreements and execute all instruments necessary or incidental to the performance of its duties and the execution of its powers under Chapter 6119 of the Ohio Revised Code; and

WHEREAS, the parties are authorized under Ohio Revised Code Section 9.482(B) to enter into an agreement to exercise any power, perform any function, or render any service for the contracting recipient political subdivision that the contracting recipient political subdivision is otherwise legally authorized to exercise, perform, or render.

Now, therefore, in consideration of the foregoing, the District and the City agree to enter into this Agreement for the continued benefit of the City's Road and the Regional Stormwater System, as set forth below.

ARTICLE 1. NORTHEAST OHIO REGIONAL SEWER DISTRICT

1.1 District Performance of the Project. The District shall be responsible for the performance and cost of the Project components including the design, construction and maintenance of the Project in accordance with the RSMP Service Agreement.

1.1.1 Design. The District shall perform the design and shall develop improvement plans, specifications and bid documents for the Project.

1.1.2 Compliance with Laws and Regulations. The District shall comply with all applicable local, state, and federal laws, rules, regulations, and requirements in performing the Project. The District shall apply for any permits necessary to comply with the above.

1.1.3 Construction. The District shall be responsible to construct the Project. The District shall provide notification to the City at least seven (7)

business days prior to the start of the Project construction and include City staff in the construction kick-off meeting as well as milestone construction meetings. The District shall install the Project in accordance with the plans and drawings, and provide on-site construction inspection and oversight.

1.1.4 Project Coordination. The District shall coordinate with the City’s representatives during all critical stages and milestones of the design and construction. Upon completion of the Project, the District shall provide copies of as-built drawings of the Project to the City.

1.1.5 Prevailing Wages. The District shall be responsible for determining whether the payment of prevailing wages, as set forth in Chapter 4115 of the Ohio Revised Code, are required for labor used in constructing the Project, and shall ensure compliance with any prevailing wage requirements in said Chapter.

1.1.6 Project Schedule. The District shall complete the Project in accordance with a Project schedule developed by the District.

1.1.7 Warranty Period. The District’s construction agreement shall require the contractor to provide a one (1) year warranty period that commences upon substantial completion of the Project construction (“Warranty Period”).

1.2 Signage. The District shall install Project-related signage informing the public of the Project during construction, and shall acknowledge the City on such signage.

1.3 Ownership, Operation and Maintenance. During construction and after completion of the Project, the City shall own all installed Project components relative to

the Road and any appurtenances, and shall be responsible for current and future operation and maintenance of such Project components. The District shall maintain the stream outside the Road right-of-way in accordance with the RSMP Service Agreement.

ARTICLE 2. **CITY OF NORTH ROYALTON**

2.1 City Performance of the Project. The City shall be responsible for acquiring all temporary and permanent easements, and other real estate interests required for the Project and for the District to perform its obligations under this Agreement, as set forth in Exhibit “C,” including by quick take appropriation if necessary,

2.1.1 Legal Descriptions and Appraisals. The City shall be responsible for obtaining, at the District’s cost, any legal descriptions and appraisals necessary for the City to perform its obligations under the Project.

2.1.2 Easement Acquisition Costs. The City shall be responsible for negotiating with and compensating the property owners for all easement acquisitions or other real estate interests necessary for the Project. Except for those costs outlined in paragraph 2.1.3 below, the District shall reimburse the City the total amount of such real estate acquisitions based upon documentation demonstrating such amount, including but not limited to settlements and jury awards. The District shall authorize the initial amount of \$21,350.00 for such reimbursement to the City.

2.1.3 Appropriation Costs. The City shall be responsible for all costs associated with any necessary appropriation action(s), including filing fees, expert fees, and outside counsel fees and expenses.

2.2 Easements and Other Real Estate Interests. The City shall ensure that any necessary easements include sufficient authority, including assignability, for the District to perform the Project and all responsibilities herein and in the future. The City hereby grants the District access to the public rights-of-way necessary to perform the Project. The City shall grant and/or assign any easements and/or other rights of entry to the District for access necessary to perform the Project and for future stormwater inspection and maintenance in accordance with the RSMP Service Agreement.

2.3 Project Presentations. The City shall acknowledge the District in presentations or publications related to the Project.

ARTICLE 3. TERM

3.1 Expiration of Agreement

This Agreement shall expire upon successful completion of the obligations contained herein.

ARTICLE 4. MISCELLANEOUS

4.1 Execution in Counterparts

This Agreement may be executed in any number of counterparts. Each counterpart, when so executed, shall be deemed to be an original and all of which together shall constitute one and the same Agreement.

4.2 Severability

If any term or provision of this Agreement is determined to be illegal, unenforceable, or invalid, in whole or in part for any reason, such provision shall be

stricken from this Agreement and such provision shall not affect the validity of the remainder of this Agreement.

4.3 Headings

The headings in this Agreement are included for convenience only and shall neither affect the construction nor the interpretation of any provision in this Agreement.

4.4 Governing Law. The terms and provisions of this Agreement shall be construed under and governed by the laws of Ohio (to which all Parties hereto consent to venue and jurisdiction).

4.5 Remedies. The Parties agree that, after exhausting the dispute resolution process outlined above, all claims, counterclaims, disputes and other matters in question between the Parties arising out of or relating to this Agreement, or the breach thereof, will be decided at law.

4.6 Disclaimer of Joint Venture. This Agreement is not intended to create a joint venture, partnership or agency relationship between the Parties, and such joint venture, partnership, or agency relationship is specifically hereby disclaimed.

4.7 Authority to Execute. Each person executing this Agreement represents and warrants that it is duly authorized to execute this Agreement by the party on whose behalf it is so executing.

4.8 Modification of Agreement. This Agreement may only be modified by written instrument executed by each party.

4.9 Merger Clause. This Agreement, along with any exhibits attached hereto, encompasses the entire agreement of the parties, and supersedes all previous understandings and agreements between the parties, whether oral or written.

4.10 Relationship of Agreement to Exhibits

The Exhibits to this Agreement are attached for reference purposes only. Nothing in this Agreement shall be construed to modify, alter, clarify, or give effect to the terms and conditions of the various Exhibits attached to this Agreement.

[remainder of page intentionally left blank]

The parties listed below have entered into this Agreement as of the date first above written.

**NORTHEAST OHIO REGIONAL
SEWER DISTRICT**

By: _____
Kyle Dreyfuss-Wells
Chief Executive Officer

AND: _____
Darnell Brown
President, Board of Trustees

CITY OF NORTH ROYALTON

By: _____
Larry Antoskiewicz
Mayor

The Legal Form and Correctness
of this Instrument is Hereby Approved:

CITY OF NORTH ROYALTON

Thomas Kelly
Law Director

This instrument prepared by:

Katarina K. Waag
Assistant General Counsel
Northeast Ohio Regional Sewer District

Each party agrees that this Agreement may be executed and distributed for signatures via email, and that the emailed signatures affixed by both parties to this Agreement shall have the same legal effect as if such signatures were in their originally written format.

CONTRACT NO.

NORTHEAST OHIO REGIONAL SEWER
DISTRICT

WITH

CITY OF NORTH ROYALTON

FOR

RIDGE ROAD REPAIR AND ROCKY RIVER
TRIBUTARY STABILIZATION AND RE-
ALIGNMENT PROJECT

Total Approximate Cost: \$21,350.00

The legal form and correctness of the within
instrument are hereby approved.

CHIEF LEGAL OFFICER

Date

CERTIFICATION

It is hereby certified that the amount required to meet the contract, agreement, obligation, payment or expenditure, for the above, has been lawfully appropriated or authorized or directed for such purpose and is in the Treasury or in process of collection to the credit of the fund free from any obligation or certification now outstanding.

CHIEF FINANCIAL OFFICER

Date

BUDGET CENTER 8100

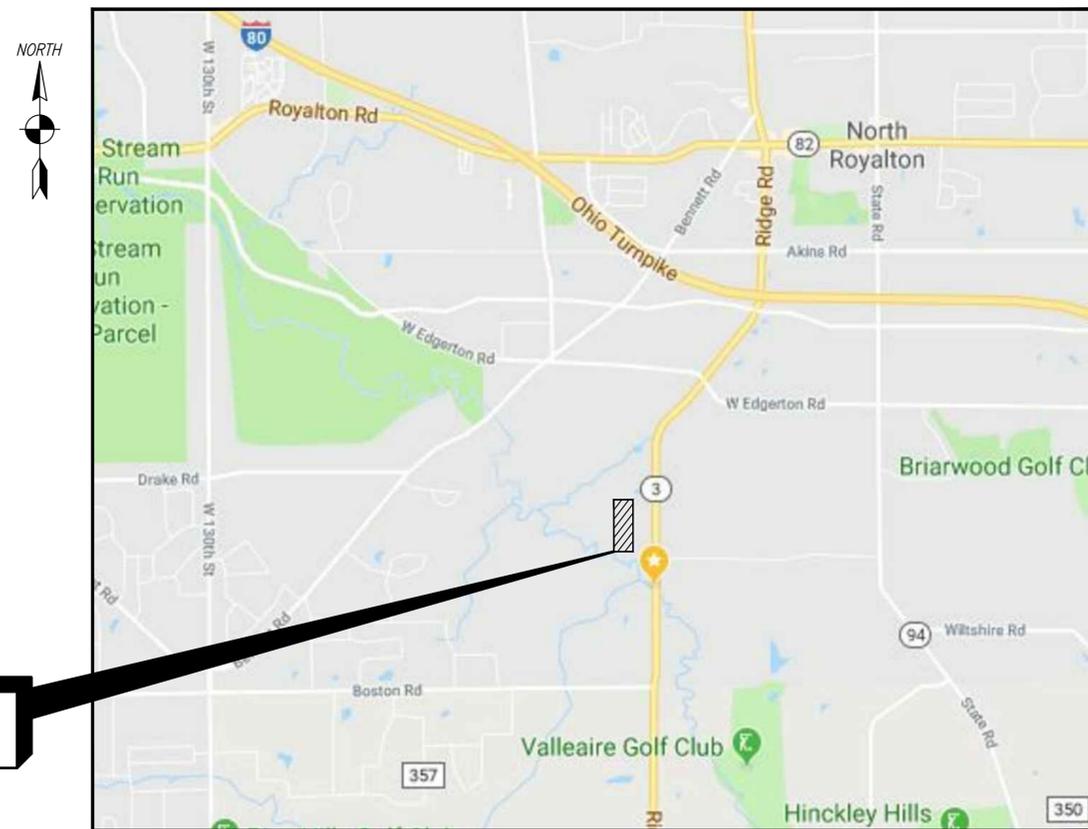
NORTHEAST OHIO REGIONAL SEWER DISTRICT CLEVELAND, OHIO

ROCKY RIVER TRIBUTARY STABILIZATION AND RE-ALIGNMENT ALONG RIDGE ROAD NORTH ROYALTON, OHIO

PROJECT NO 1555
MARCH 2019

BOARD OF TRUSTEES

DARNELL BROWN	PRESIDENT
RONALD D SULIK	VICE PRESIDENT
MAYOR TIMOTHY DEGEETER	SECRETARY
SHARON A. DUMAS	
MAYOR JACK M. BACCI	
MAYOR ROBERT A. STEFANIK	
JULIUS CIACCIA	
KYLE DREYFUSS-WELLS	CHIEF EXECUTIVE OFFICER



VICINITY MAP
NO SCALE

90% DESIGN SUBMITTAL

KYLE DREYFUSS-WELLS

FRANK GREENLAND

UNDERGROUND UTILITIES
2 WORKING DAYS
BEFORE YOU DIG
CALL 800.362.2764
OHIO UTILITIES PROTECTION
SERVICE
NON-MEMBERS MUST BE
CONTACTED DIRECTLY



ROCKY RIVER
TRIBUTARY
STABILIZATION



**Northeast Ohio
Regional Sewer District**



PROJECT SET: 001 OF 007
SHEET: 01 OF 02
SHEET NO.:
G-0-001

GENERAL SYMBOLOGY

	NEW CONSTRUCTION
	LIMITS OF DISTURBANCE
	EXISTING (SCREENED)
	FUTURE (PHANTOM)
	EXISTING TO BE REMOVED OR DEMOLISHED
	PROPERTY LINE
	EXISTING R.O.W.
	PROPOSED EASEMENT

SYMBOLS

	CENTERLINE
	PLATE
	SPRINGLINE
	VITRIFIED CLAY PIPE
	REINFORCED CONCRETE PIPE
	CONCRETE
# symbol"/>	POUND
& symbol"/>	AND
@ symbol"/>	AT
(A) symbol"/>	SHEET KEYNOTE
R/W symbol"/>	RIGHT OF WAY
Triangle symbol"/>	POINT OF INTERSECTION (PI)
Circle with BM symbol"/>	BENCHMARK (BM)
Triangle with CNPT symbol"/>	CONTROL POINT (CNPT)
Circle with B symbol"/>	BORING LOCATION

MATERIAL SYMBOLOGY

	CONCRETE (PLAN AND SECTION)
	EROSION CONTROL BLANKET
	TYPE C RIP RAP
	IMPERVIOUS PLUG
	BOULDER
	RAILING (PLAN)
	FINISHED GRADE
	WATER LEVEL
	TOE WOOD
	BOULDER TOE
	SILT FENCE
	SAFETY EXCLUSION FENCE

SCALES AND MISCELLANEOUS

SCALE: 1/8" = 1'-0"

SCALE: 1/4" = 1'-0"

SCALE: 3/8" = 1'-0"

SCALE: 1/2" = 1'-0"

SCALE: 3/4" = 1'-0"

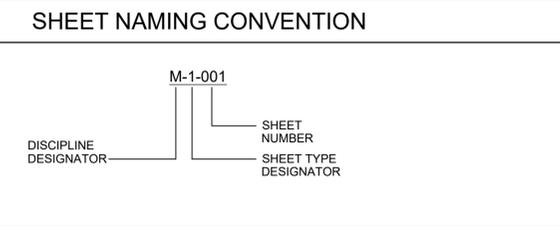
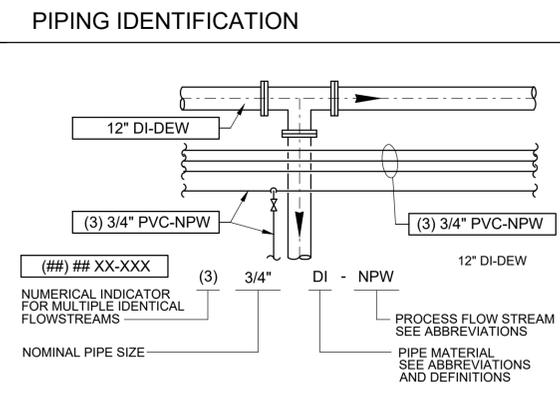
SCALE: 1" = 1'-0"

SCALE: 1 1/2" = 1'-0"

NORTH

 SCALE: 1" = 10'-0"

SECTION
 SCALE: 1/2" = 1'-0"

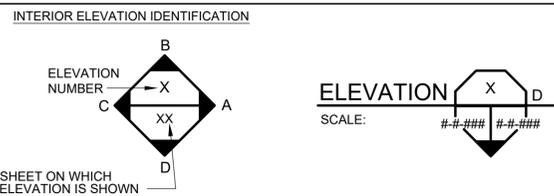
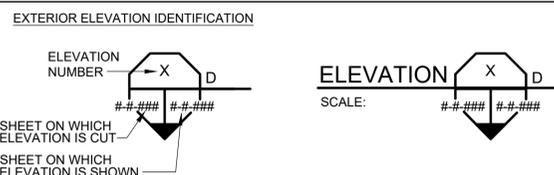
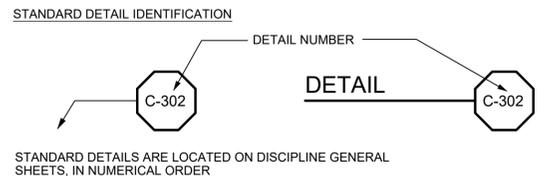
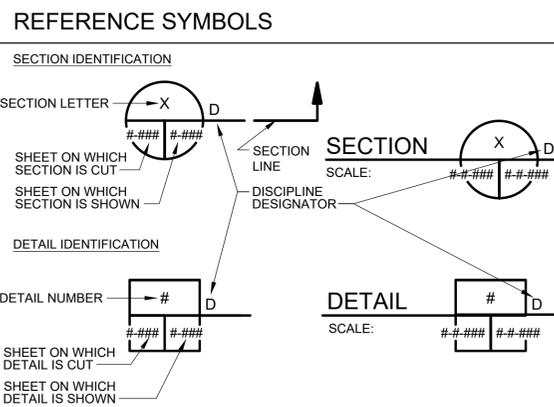


DISCIPLINE DESIGNATORS

PREFIX	DISCIPLINE
G	GENERAL
D	DEMOLITION
C	CIVIL
S	STRUCTURAL

SHEET TYPE DESIGNATOR

TYPE	DESIGNATOR
0	GENERAL (SYMBOLS, LEGENDS, NOTES, ETC)
1	PLANS (HORIZONTAL VIEWS) ELEVATIONS (VERTICAL VIEWS) SECTIONS (SECTIONAL VIEWS) LARGE SCALE VIEWS (PLANS, ELEVATIONS, SECTIONS THAT ARE NOT DETAILS)
99	DETAILS (STANTEC STANDARD, PROJECT SPECIFIC 900 SERIES, DISCIPLINE SPECIFIC, ETC) REFERENCE



ISSUED FOR:

FINAL SUBMITTAL	90% SUBMITTAL	50% SUBMITTAL	30% SUBMITTAL
X	X	X	X
X	X	X	X

GENERAL

NO.	DESCRIPTION
G-0-001	TITLE/COVER SHEET
G-1-001	LIST OF DRAWINGS, NOTES AND SYMBOLS

CIVIL

NO.	DESCRIPTION
C-1-001	OVERVIEW PLAN
C-1-002	ENVIRONMENTAL RESOURCE OVERVIEW
C-1-003	SITE PLAN - I
C-1-004	SITE PLAN - II
C-1-005	PROFILE
C-1-006	TYPICAL SECTIONS
C-1-007	CROSS SECTIONS
C-1-008	SWPPP PLAN - I
C-1-009	SWPPP PLAN - II
C-1-010	SWPPP DETAILS
C-1-011	STREAM RESTORATION DETAILS - I
C-1-012	STREAM RESTORATION DETAILS - II
C-1-013	STREAM RESTORATION DETAILS - III
C-1-014	PLANTING PLAN - I
C-1-015	PLANTING PLAN - II
C-1-016	GEOTECHNICAL BORING LOG

S:\17-0055-01\17-SHEET FILES\05-741-S-G-1-001 - NOTES, SYMBOLS, LIST.DWG - 05-741-S-G-1-001 - MWL\ACAD_2012\CTB - PLOTTED: 3/21/2019 8:44 AM BY: RSD\JMS



REV NO	DATE	ISSUED BY	REMARKS

DESIGNED BY:	SLB
DRAWN BY:	SLB
SHEET CHK'D BY:	RGR
CROSS CHK'D BY:	
APPROVED BY:	
ISSUED DATE:	

ROCKY RIVER TRIBUTARY
STABILIZATION AND RE-ALIGNMENT

PROJECT 1555

GENERAL
LIST OF DRAWINGS, NOTES AND SYMBOLS



PROJECT SET:	001 OF 007
G SHEET:	02 OF 02
SHEET NO.:	G-1-001

S:\17-0035-01\SHEET FILES\65-741-5-C-1-001 - OVERVIEW PLAN.DWG - 65-741-5-ROCKY-C-0-001 - MKK_A00_20121218 - PLOTTED 11/21/2019 8:53 AM BY RSD\WRS



MARY S. MARTY
19346 RIDGE ROAD,
NORTH ROYALTON OHIO, 44133
PPN 48611001

WALTER & MARY E. SUTKOWSKI
49000 RIDGE ROAD,
NORTH ROYALTON, OHIO 44133
INST NO 201509230378
PPN 485-25-012

EDWARD C. JULIAN
RIDGE ROAD, NORTH ROYALTON,
OHIO 44133
INST NO . . .
PPN 48525016 . . .

MICHAEL D. HANNA & JACQUELINE T. HANNA
18850 RIDGE ROAD,
NORTH ROYALTON, OHIO 44133
INST NO 2200807300875
PPN 485-25-011

TOM & KARIN L. WOJCIK
RIDGE ROAD,
NORTH ROYALTON, OHIO 44133
INST NO 201309060232
PPN 485-25-015

JOHN F. & DONNA I. TURNER IV
18900 RIDGE ROAD,
NORTH ROYALTON, OHIO 44133
INST NO 201309060232
PPN 485-25-013

TOM WOJCIK AND KARIN L. WOJCIK
18850 RIDGE ROAD NORTH ROYALTON, OHIO 44133
INST NO 201010010672
PPN 452-25-009

SCALE: 1" = 40'



**Northeast Ohio
Regional Sewer District**

REV NO	DATE	ISSUED BY	REMARKS

DESIGNED BY: XXX
DRAWN BY: SJJ
SHEET CHK'D BY: XXX
CROSS CHK'D BY:
APPROVED BY:
ISSUED DATE: x

This document was originally issued by (Name) on XXX/XXX/XXX. This document is not considered a sealed document.

**ROCKY RIVER TRIBUTARY
STABILIZATION AND RE-ALIGNMENT**

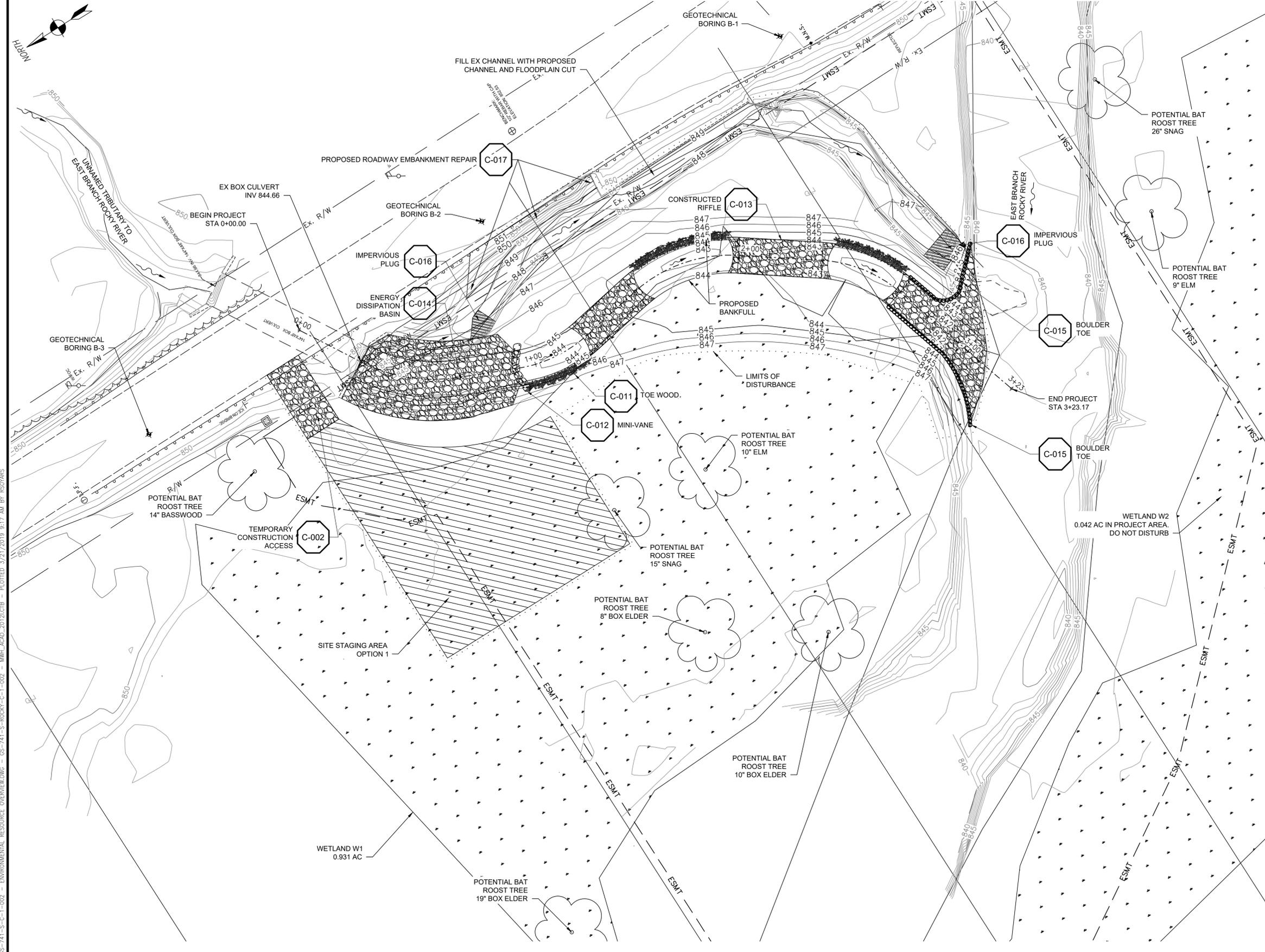
PROJECT 1555

**STREAM RESTORATION
CIVIL
OVERVIEW PLAN
ROCKY RIVER TRIBUTARY**

WARNING
0 1/2 1
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE

PROJECT SET: 001 of 007
C SHEET: 01 OF 16
SHEET NO.:
C-1-001

90% DRAWING SUBMITTAL



GENERAL SHEET NOTES

1. DO NOT DISTURB BAT ROOST TREES DURING CONSTRUCTION.
 2. BORING LOGS PROVIDED ON SHEET C-1-016.
- RECOMMENDED SEQUENCE OF CONSTRUCTION:
1. IDENTIFY THE PROJECT BOUNDARY, LIMITS OF DISTURBANCE, SENSITIVE AREAS, STAGING AREAS, STABILIZED ENTRANCE, AND ACCESS POINTS WITH THE ENGINEER.
 2. MOBILIZE EQUIPMENT AND NECESSARY TEMPORARY STRUCTURES (E.G. OFFICE TRAILER) TO SITE.
 3. CONSTRUCT ENTRANCE AND STAGING AREAS IN A MANNER TO SUPPORT THE EXECUTION OF THE STREAM RELOCATION IN PHASES AS INDICATED IN THE PLANS.
 4. INSTALL SEDIMENT CONTROL IN ACCORDANCE WITH THE APPROVED SWPPP. CLEAR AND GRUB AREAS NECESSARY FOR CHANNEL RELOCATION AND EXISTING CHANNEL FILL. STOCKPILE WOODY DEBRIS FOR TOE WOOD INSTALLATION.
 5. INSTALL PUMP AROUND AS INDICATED IN PLANS AND DETAIL.
 6. EXCAVATE OVERFLOW CHANNEL TO ACCOMMODATE STORM FLOWS IN EXCESS OF PUMP-AROUND DIVERSION CAPACITY.
 7. CONSTRUCT STREAM RELOCATION AS SHOWN IN PLANS FROM THE CONFLUENCE WITH EAST BRANCH ROCKY RIVER TO STATION 0+90.
 8. BACKFILL OF EXISTING CHANNEL CAN OCCUR SIMULTANEOUSLY WITH THE CONSTRUCTION OF THE PROPOSED CHANNEL.
 9. CONSTRUCT ENERGY DISSIPATION BASIN FROM STATION 0+90 TO THE EXISTING CULVERT OUTFALL.
 10. REMOVE PUMP AROUND.
 11. INSTALL SEED, STRAW AND EROSION CONTROL BLANKET ON STREAM BANKS AND FLOODPLAIN AS SHOWN IN THE PLANS.
 12. REPAIR ROAD EMBANKMENT.
 13. REMOVE REMAINING BMPs AND EROSION CONTROL AFTER FULL SITE STABILIZATION PER THE APPROVED SWPPP.
 14. DEMOBILIZE EQUIPMENT FROM SITE.

90% DRAWING SUBMITTAL

S:\17-0035-01\SHEET_FILES\SS-741-S-C-1-002 - ENVIRONMENTAL RESOURCE OVERVIEW.DWG - CS-741-S-ROCKY-C-1-002 - MHW_AGOD_2021.CTB - PLOTTED 7/21/2019 9:17 AM BY: RSOYARS

SCALE: 1" = 20'



**Northeast Ohio
Regional Sewer District**

REV NO	DATE	ISSUED BY	REMARKS

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**ROCKY RIVER TRIBUTARY
STABILIZATION AND RE-ALIGNMENT**

PROJECT 1555

**STREAM RESTORATION
CIVIL**

**ENVIRONMENTAL RESOURCE OVERVIEW
ROCKY RIVER TRIBUTARY**

WARNING

0 1/2 1

IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE

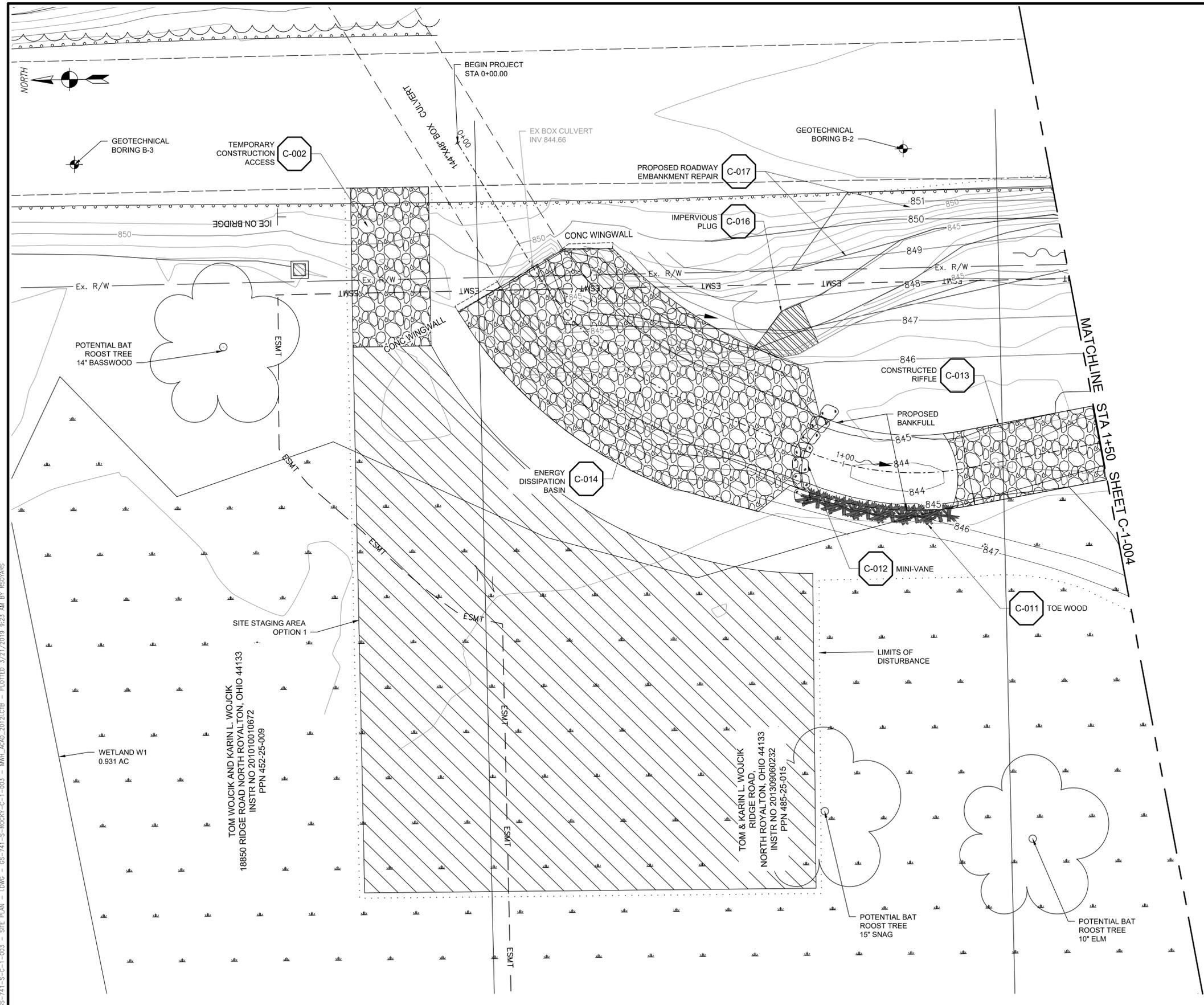
PROJECT SET: 001 of 007

C SHEET: 02 OF 16

SHEET NO.: C-1-002

GENERAL SHEET NOTES

- DO NOT DISTURB BAT ROOST TREES DURING CONSTRUCTION.
- BORING LOGS PROVIDED ON SHEET C-1-016.



S:\17-0035-01\SHEET FILES\65-741-S-C-1-003 - SITE PLAN - LDWG - GS-741-S-ROCKY-C-1-003 - MHK_ACAD_20121213 - PLOTTED 3/21/2019 9:23 AM BY: B50VARS

SCALE: 1" = 10'



**Northeast Ohio
Regional Sewer District**

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DESIGNED BY: XXX
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**ROCKY RIVER TRIBUTARY
STABILIZATION AND RE-ALIGNMENT**

PROJECT 1555

**STREAM RESTORATION
CIVIL**

SITE PLAN - I
 ROCKY RIVER TRIBUTARY

WARNING

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IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE

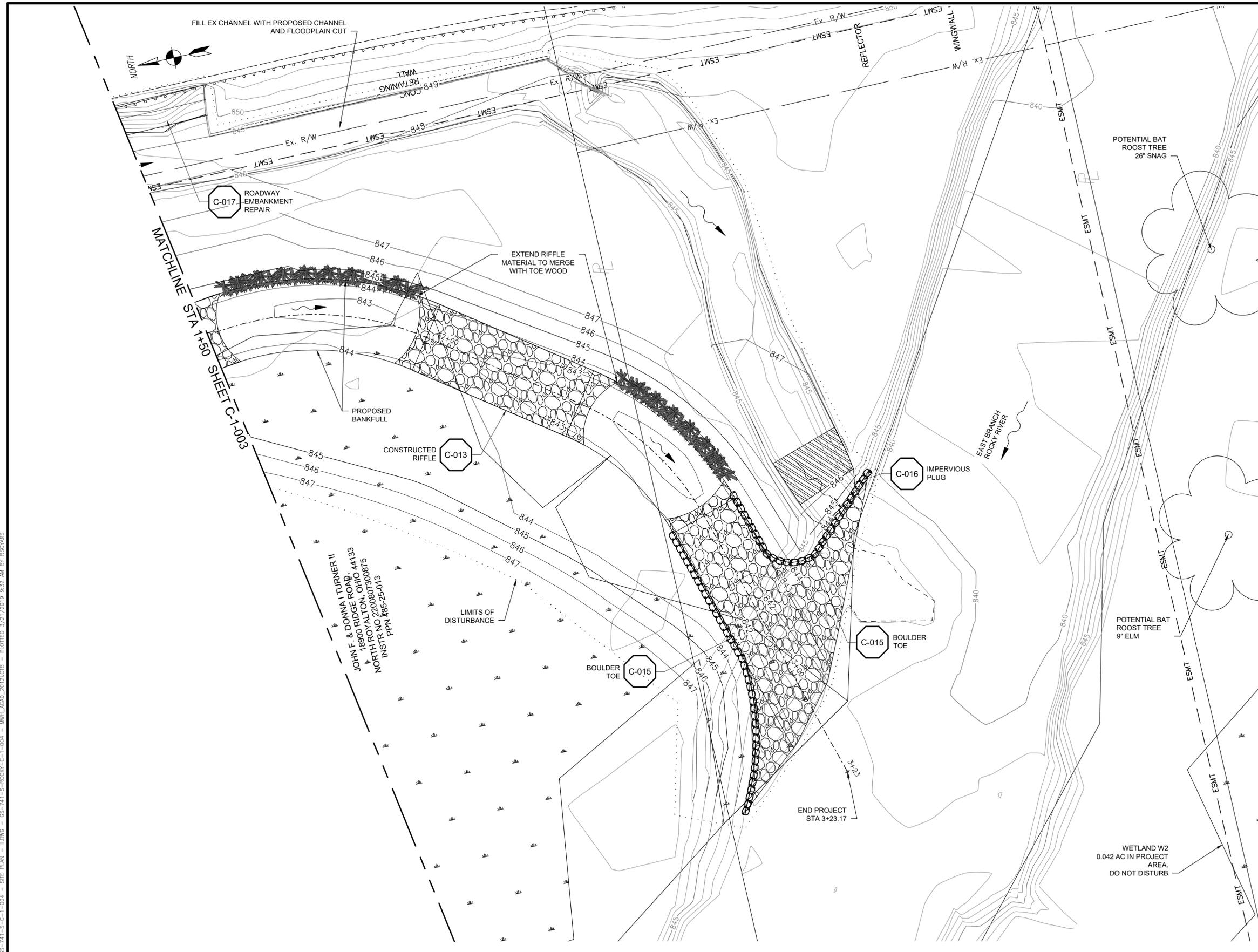
PROJECT SET: 001 of 007

C SHEET: 03 OF 16

SHEET NO.: C-1-003

GENERAL SHEET NOTES

- DO NOT DISTURB BAT ROOST TREES DURING CONSTRUCTION.
- BORING LOGS PROVIDED ON SHEET C-1-016.



S:\17-0035-01\SHEET FILES\CS-741-5-C-1-004 - SITE PLAN - I.DWG - CS-741-5-ROCKY-C-1-004 - MHA_A04_201212TB - PLOTTED 3/21/2019 9:12 AM BY RSD\YRS

JOHN F. & DONNA I TURNER II
 1890 RIDGE ROAD, 44133
 NORTH ROYALTON, OHIO 44133
 INSTR. NO. Z200807300875
 PPN #85-25-013

SCALE: 1" = 10'



REV NO	DATE	ISSUED BY	REMARKS

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ROCKY RIVER TRIBUTARY STABILIZATION AND RE-ALIGNMENT

PROJECT 1555

STREAM RESTORATION CIVIL

SITE PLAN - II

ROCKY RIVER TRIBUTARY

WARNING

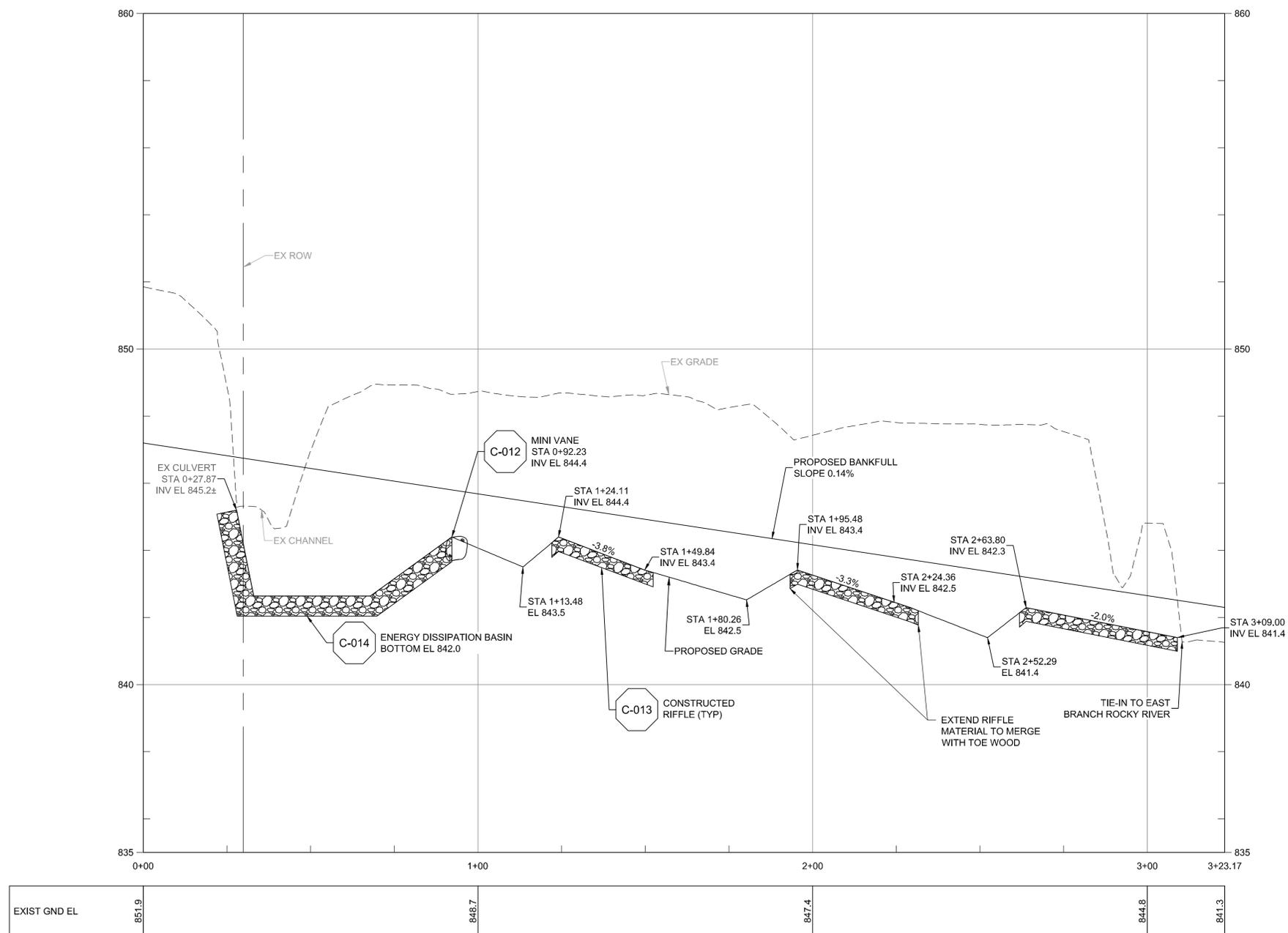
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IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE

PROJECT SET: 001 of 007

C SHEET: 04 OF 16

SHEET NO.: C-1-004



HORIZ. SCALE: 1" = 20'
VERT. SCALE: 1" = 2'



**Northeast Ohio
Regional Sewer District**

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CROSS CHK'D BY:
APPROVED BY:
ISSUED DATE: x

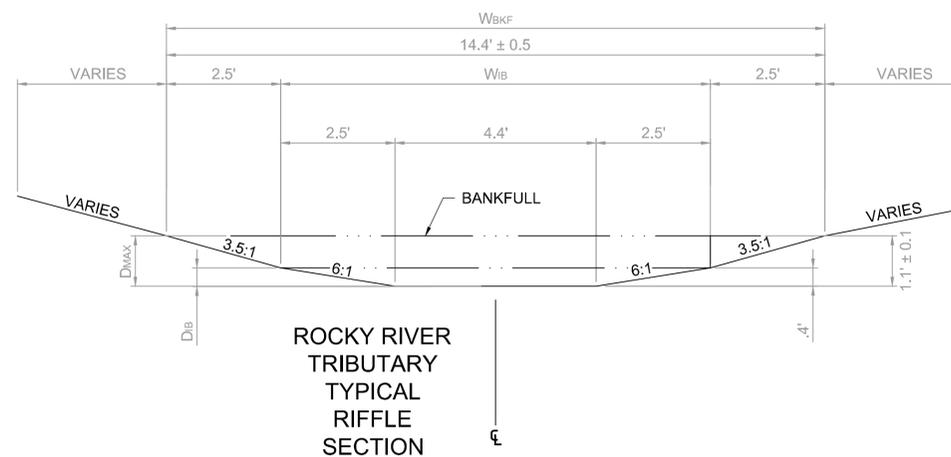
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**ROCKY RIVER TRIBUTARY
STABILIZATION AND RE-ALIGNMENT**
PROJECT 1555

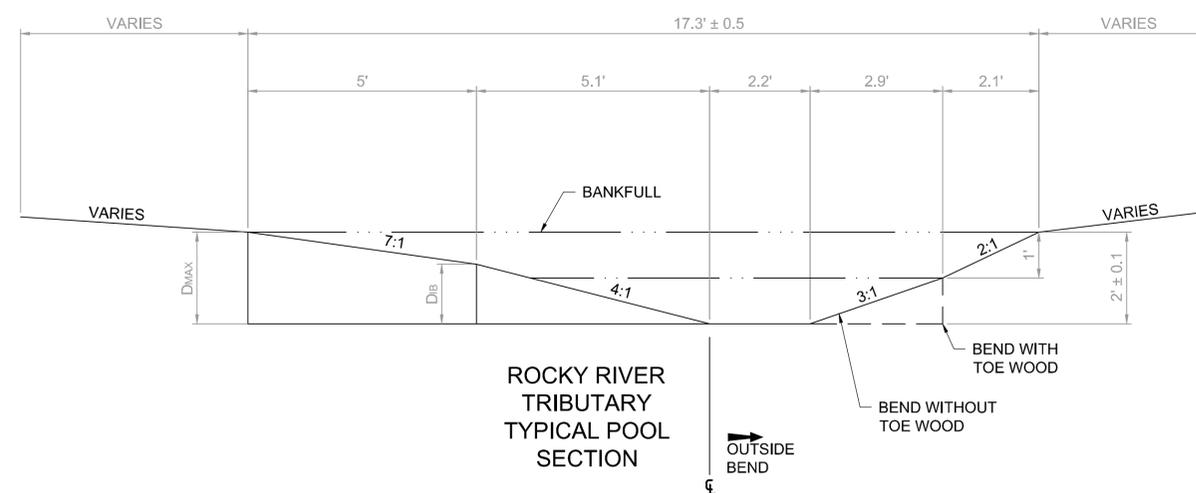
**STREAM RESTORATION
CIVIL
PROFILE
ROCKY RIVER TRIBUTARY**

WARNING
0 1/2 1
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PROJECT SET: 001 of 007
C SHEET: 05 OF 16
SHEET NO.: C-1-005



TRIBUTARY TO ROCKY RIVER DESIGN PARAMETERS	
A _{BKF}	11.6 FT ²
W _{BKF}	14.4 FT
D _{BKF}	0.8 FT
D _{MAX}	1.1 FT
W/D	18 FT
W _{IB}	9.4 FT
S _{BKF}	1.4 %
S _{RIFFLE}	0.3 %
Q _{BKF}	55 CFS



S:\17-0035-01\SHEET_FILES\SS-741-S-C-1-006 - TYPICAL SECTIONS.DWG - CS-741-S-C-1-006 - MWL_ACD_2012.CTB - PLOTTED 3/21/2019 10:09 AM BY: ESOVARS



REV NO	DATE	ISSUED BY	REMARKS

DESIGNED BY: XXX
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 APPROVED BY: XXX
 ISSUED DATE: XXX

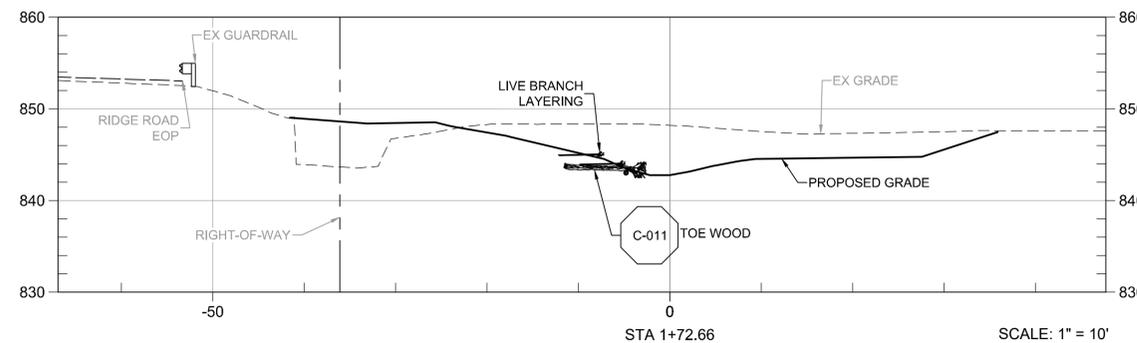
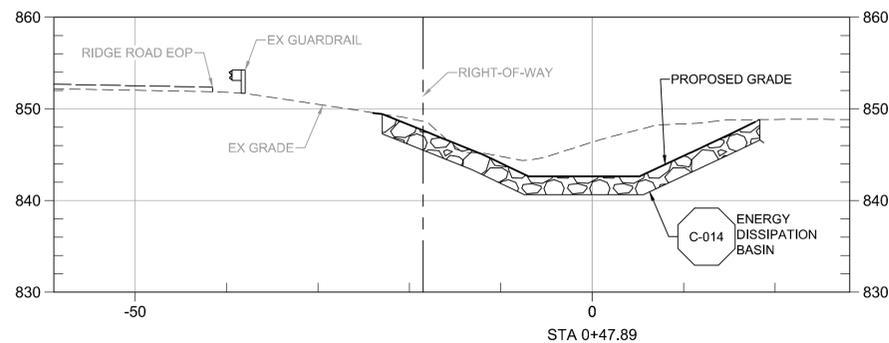
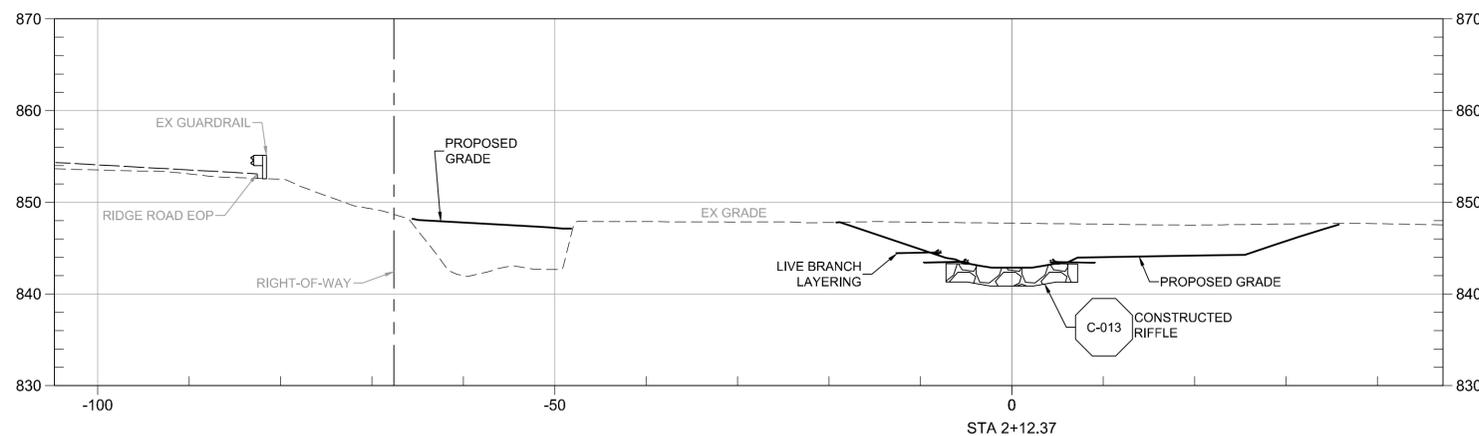
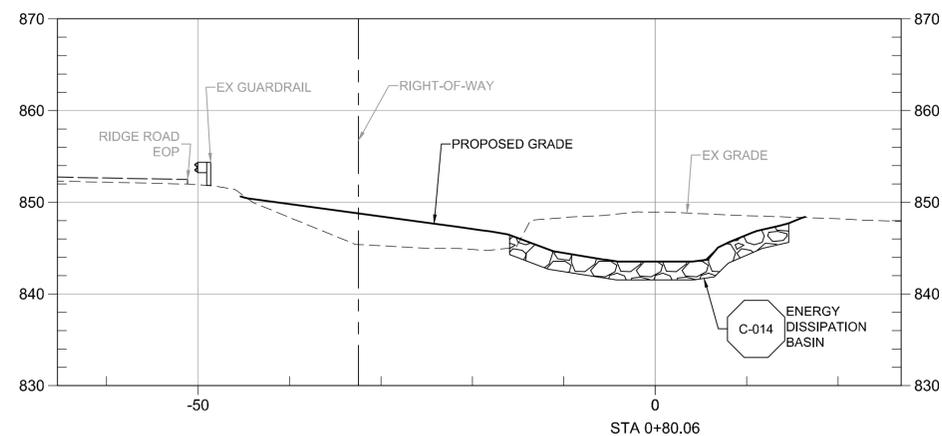
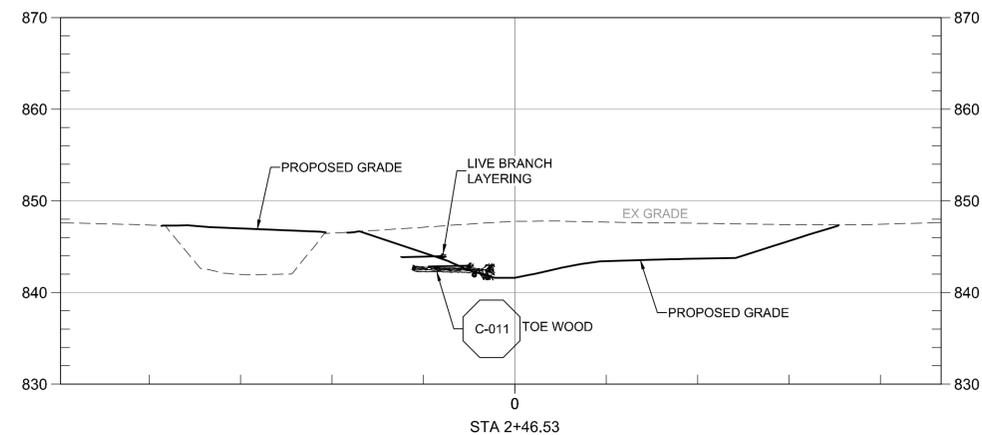
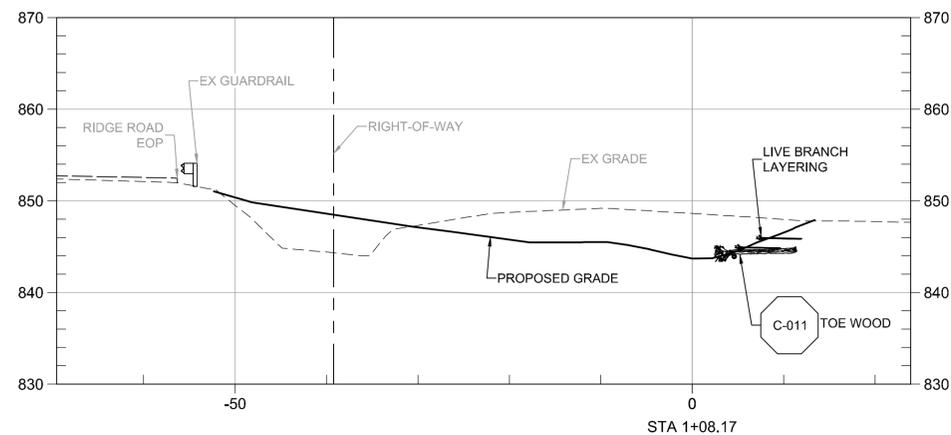
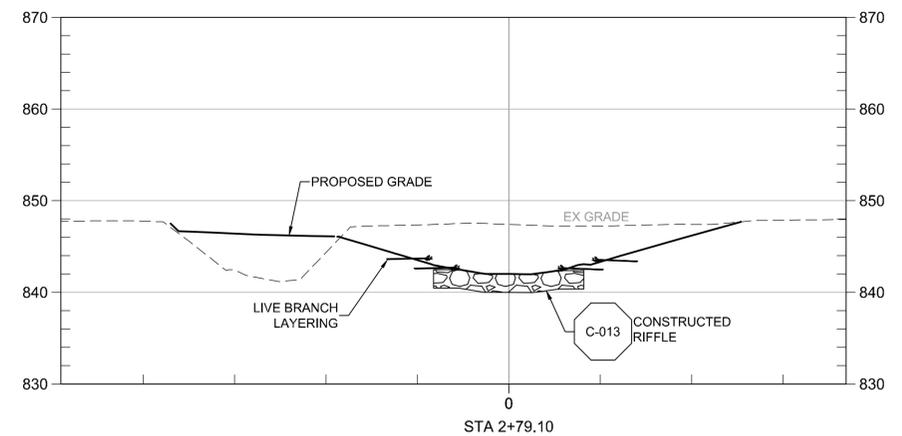
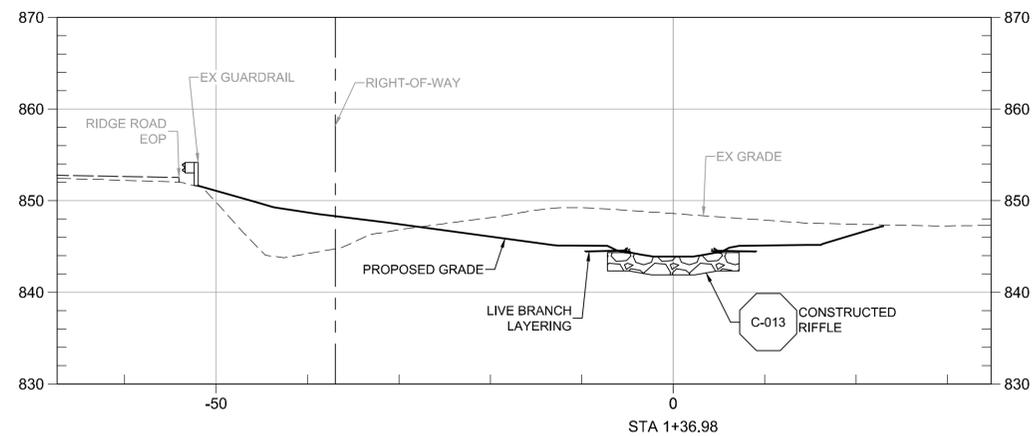
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ROCKY RIVER TRIBUTARY STABILIZATION AND RE-ALIGNMENT
 PROJECT 1555

STREAM RESTORATION CIVIL
 TYPICAL SECTIONS
 ROCKY RIVER TRIBUTARY

WARNING
 0 1/2 1
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PROJECT SET: 001 of 007
 C SHEET: 06 OF 16
 SHEET NO.: C-1-006



SCALE: 1" = 10'

S:\17-0035-01\SHEET_FILES\65-741-S-C-1-007 - CROSS SECTIONS.DWG - 65-741-S-C-1-007 - MHA_ASD_20121218 - PLOTTED 3/22/2019 9:52 AM BY RSD/YRS



REV NO	DATE	ISSUED BY	REMARKS

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 ISSUED DATE: x

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ROCKY RIVER TRIBUTARY STABILIZATION AND RE-ALIGNMENT

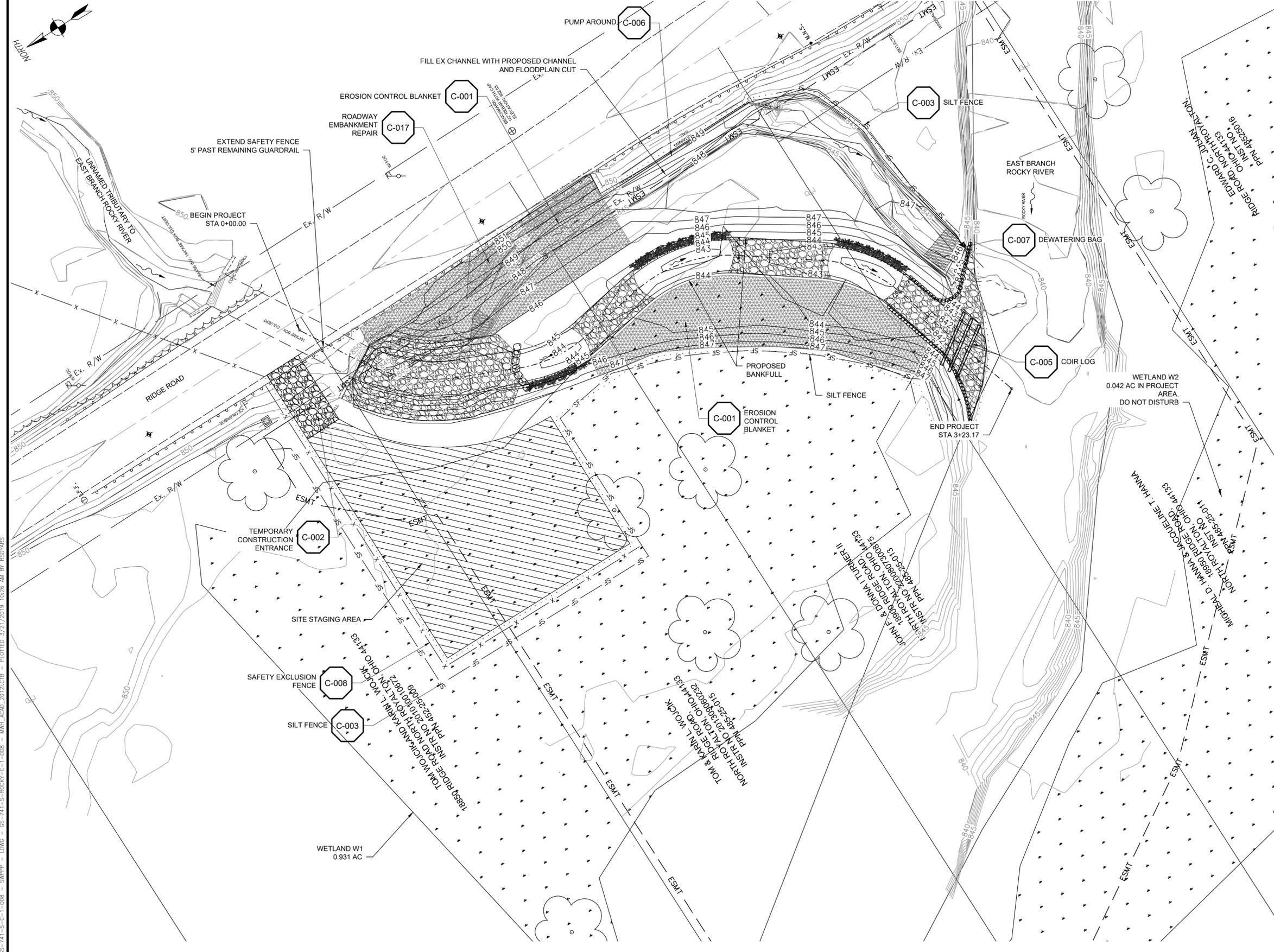
PROJECT 1555

STREAM RESTORATION CIVIL CROSS SECTIONS ROCKY RIVER TRIBUTARY

WARNING
 0 1/2 1
 IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE

PROJECT SET: 001 of 007
 C SHEET: 07 OF 16
 SHEET NO.: C-1-007

- ### SWPPP NOTES
1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DEVELOPING AN SUBMITTING THE STORMWATER POLLUTION PREVISION PLAN (SWPPP) AND NPDES NOTICE OF INTENT (NOI). THE CONDITIONS OF THE NPDES CONSTRUCTION STORMWATER GENERAL PERMIT SHALL BE MET DURING ALL STAGES OF CONSTRUCTION.
 2. A COPIES OF THE APPROVED SWPPP AND REQUIRED ENVIRONMENTAL PERMITS SHALL BE KEPT ON-SITE FOR THE DURATION OF CONSTRUCTION.
 3. IMPLEMENTATION OF THE SWPPP SHALL CONTINUE THROUGHOUT THE DURATION OF THE PROJECT OR UNTIL SUCH TIME THAT THE UPSLOPE DISTURBED AREAS ARE STABILIZED.
 4. ALL REASONABLE ATTEMPTS SHOULD BE MADE TO MINIMIZE THE TOTAL AREA OF DISTURBED LAND SHALL IMPLEMENT BMPs IN PLANS AND PERMITS, CONFORM TO SPECIAL CONDITIONS.
 5. EQUIPMENT WASHING SHALL BE LIMITED TO DESIGNATED STAGING AREAS AS SHOWN ON THE PLANS AND APPROVED IN THE SWPPP. WASHING IN THESE AREAS WILL ONLY BE ALLOWED IF PROVISIONS ARE PROVIDED TO CAPTURE WASH WATER FOR PROPER TREATMENT. WASH WATER SHALL NOT BE ALLOWED TO FLOW UNTREATED FROM THE SITE AT ANY TIME.
 6. UNPERMITTED IMPACTS TO SURFACE WATER RESOURCES AND/OR THEIR BUFFERS OCCURRING AS A RESULT OF THIS PROJECT MUST BE REPORTED WITHIN 24 HOURS OF OCCURRENCE TO OHIO EPA, DIVISION OF SURFACE WATER, SECTION 401/STORMWATER MANAGER (614-644-2001), FOR FURTHER EVALUATION.
 7. ANY AUTHORIZED REPRESENTATIVE OF THE DIRECTOR OF OEPA SHALL BE ALLOWED TO INSPECT THE AUTHORIZED ACTIVITY AT REASONABLE TIMES TO ENSURE THAT IT IS BEING OR HAS BEEN ACCOMPLISHED IN ACCORDANCE WITH THE TERMS AND CONDITIONS OF THIS CERTIFICATION.
 8. TEMPORARY WETLAND IMPACTS RELATED TO SITE STAGING SHALL BE MINIMIZED AND WETLAND AREAS RESTORED AS DESCRIBED AS FOLLOWS:
 - 8.1. PRIOR TO USE, THE UPPER 12 INCHES OF SOIL IN THE STAGING AREA WILL BE STRIPPED AND STOCKPILED FOR SITE RESTORATION.
 - 8.2. COMPACTION OF THE SUB-SOIL WILL BE MINIMIZED BY PARKING EQUIPMENT OUTSIDE OF THE WETLAND AREA AND CROSSING IT USING TIMBER MATS WHEN PRACTICAL.
 - 8.3. AFTER USE OF THE STAGING AREA IS COMPLETE, THE SUB-SOIL WILL BE DISKED AND COVERED WITH 12 INCHES MINIMUM OF STOCKPILED WETLAND TOPSOIL.
 - 8.4. PRIOR TO PLACEMENT, THE TOPSOIL WILL BE TREATED FOR INVASIVE SPECIES.
 - 8.5. THE STOCKPILE AREA WILL BE SEEDED WITH NATIVE WETLAND SEED AND TREES PER THE PLANTING PLAN.



S:\17-0055-01\SHEET FILES\65-741-S-C-1-008 - SWPPP - LDWG - CS-741-S-ROCKY-C-1-008 - MHA.ACAD_20121213 - PLOTTED 3/21/2019 10:26 AM BY RESOYRS

SCALE: 1" = 20'



Northeast Ohio Regional Sewer District

REV NO	DATE	ISSUED BY	REMARKS

DESIGNED BY: XXX
 DRAWN BY: SJJ
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 CROSS CHK'D BY: _____
 APPROVED BY: _____
 ISSUED DATE: _____

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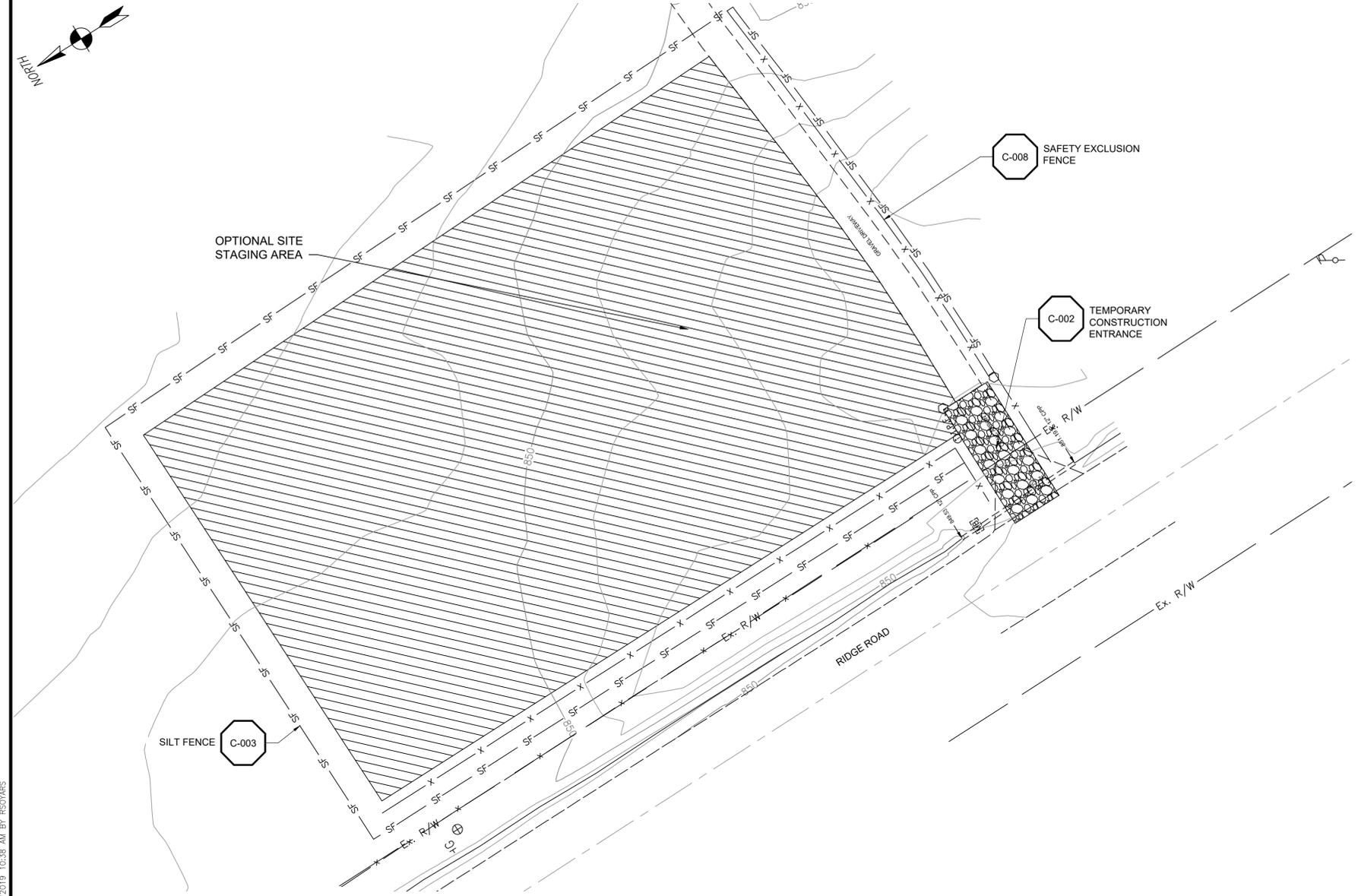
ROCKY RIVER TRIBUTARY STABILIZATION AND RE-ALIGNMENT

PROJECT 1555

STREAM RESTORATION CIVIL
SWPPP PLAN I
ROCKY RIVER TRIBUTARY



PROJECT SET: 001 of 007
 C SHEET: 08 OF 16
 SHEET NO.: C-1-008



90% DRAWING SUBMITTAL

S:\17-0035-01\SHEET_FILES\65-741-S-C-1-009 - SWPPP - I.DWG - 65-741-S-C-1-009 - MHP_LACAD_2012.DWG - PLOTTED 3/21/2019 10:38 AM BY RSO/ARS

SCALE: 1" = 20'



REV NO	DATE	ISSUED BY	REMARKS

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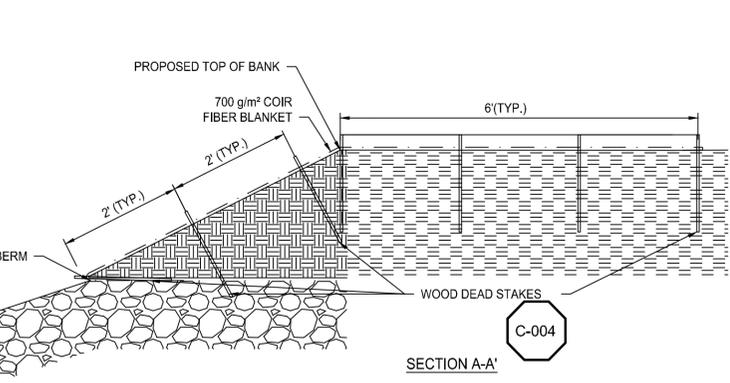
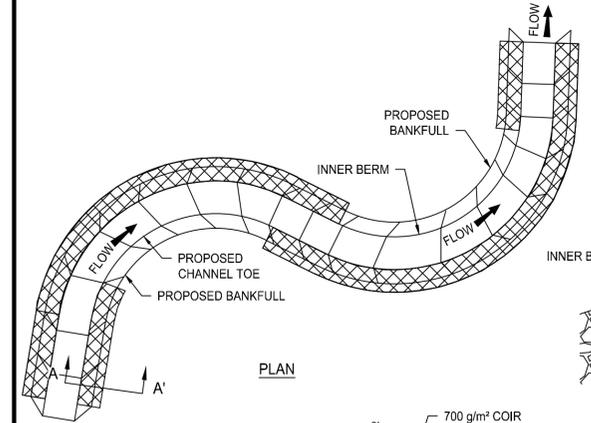
**ROCKY RIVER TRIBUTARY
 STABILIZATION AND RE-ALIGNMENT**

PROJECT 1555

STREAM RESTORATION
 CIVIL
 SWPPP - II
 ROCKY RIVER TRIBUTARY

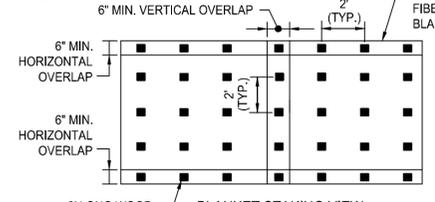
WARNING
 0 1/2 1
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PROJECT SET: 001 of 007
 C SHEET: 09 OF 16
 SHEET NO.:
 C-1-009



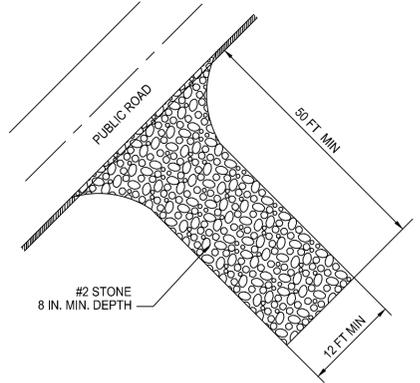
- NOTES:**
1. THE OUTSIDE BEND OF THE DISSIPATION BASIN, BOTH BANKS OF CONSTRUCTED RIFFLES, THE RECONSTRUCTED ROAD EMBANKMENT ALONG RIDGE ROAD, AND SLOPES THAT EXCEED 4:1 SHALL RECEIVE EROSION CONTROL BLANKET UNLESS ALTERNATIVE STABILIZATION METHODS ARE INDICATED.
 2. RAKE SOIL SMOOTH, ADD SEED, AND MULCH BEFORE INSTALLING COIR FIBER BLANKET.
 3. BLANKET SHALL BE LAID PARALLEL TO FLOW. OVERLAP BETWEEN ADJACENT RUNS OF BLANKET SHALL BE A MINIMUM OF SIX (6) INCHES. BLANKET SHALL OVERLAP IN THE DOWNSTREAM DIRECTION PARALLEL TO FLOW AND DOWN-SLOPE PERPENDICULAR TO FLOW.
 4. ALL MATERIALS ARE TO BE APPROVED BY ENGINEER OR OWNER'S ONSITE CONSTRUCTION MANAGER.
 5. ADDITIONAL STAKING SHALL BE APPLIED IF THE EROSION CONTROL BLANKET SEPARATES FROM THE SOIL MORE THAN 1 INCH UNDER A REASONABLE PULL.

DETAIL - TYPICAL EROSION CONTROL BLANKET C-001

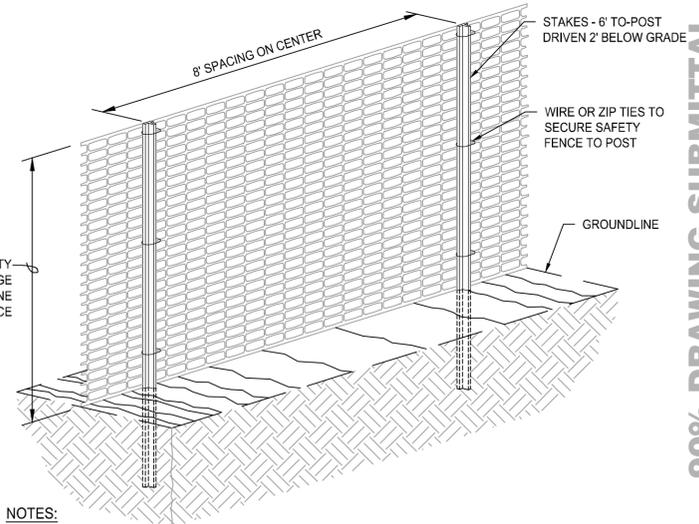


BLANKET STAKING VIEW C-004

DETAIL - TEMPORARY CONSTRUCTION ENTRANCE C-002

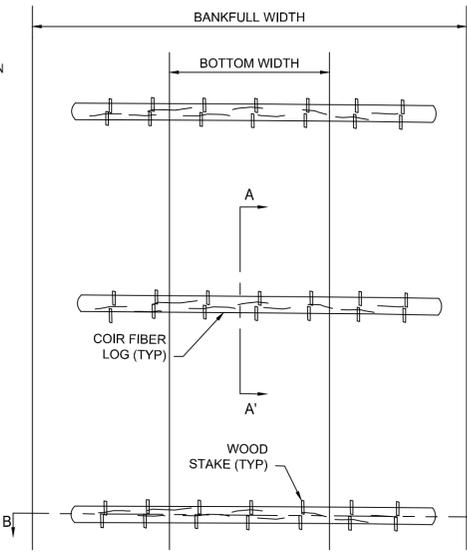


- NOTES:**
1. TURNING RADIUS SUFFICIENT TO ACCOMMODATE LARGE TRUCKS SHALL BE PROVIDED.
 2. ENTRANCE(S) SHOULD BE LOCATED TO PROVIDE FOR UTILIZATION BY ALL CONSTRUCTION VEHICLES.
 3. MUST BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR DIRECT FLOW OF MUD ONTO STREETS. PERIODIC TOP DRESSING WITH STONE WILL BE NECESSARY.
 4. ANY MATERIAL TRACKED ONTO THE ROADWAY MUST BE CLEANED UP IMMEDIATELY.
 5. GRAVEL CONSTRUCTION ENTRANCE SHALL BE LOCATED AT ALL POINTS OF INGRESS AND EGRESS UNTIL SITE IS STABILIZED. FREQUENT CHECKS OF THE DEVICE AND TIMELY MAINTENANCE MUST BE PROVIDED.
 6. FILTER FABRIC TO BE PLACED BENEATH STONE.
 7. ALL MATERIALS ARE TO BE APPROVED BY ENGINEER OR ENGINEERS ONSITE CONSTRUCTION MANAGER.

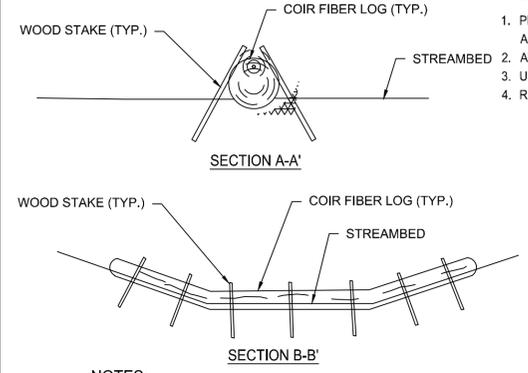


- NOTES:**
1. PLACE SAFETY FENCE AROUND EXCLUSION AREA TO WARN PUBLIC AND WORKERS NOT TO ENTER. MOVE FENCE AS AREAS ARE CONFIRMED CLEAR.
 2. ATTACH SAFETY FENCE TO T-POSTS IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.
 3. USE WARNING SIGNS AS APPROPRIATE.
 4. REMOVE FENCE AND T-POSTS AT PROJECT COMPLETION AND DISPOSE OF IN A LEGAL MANNER.

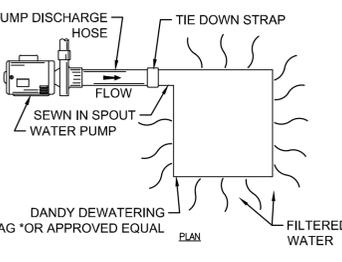
DETAIL - SAFETY EXCLUSION FENCE C-008



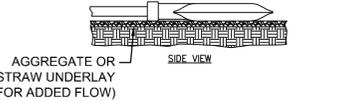
DETAIL - COIR LOG C-005
NOT TO SCALE



- NOTES:**
1. EXCAVATE A 3 INCH TRENCH TO PLACE THE COIR LOG.
 2. COIR FIBER LOGS SHALL BE 12 INCHES IN DIAMETER UNLESS OTHERWISE DIRECTED BY THE ENGINEER.
 3. THE COIR SHALL BE PLACED AT LOCATIONS INDICATED IN THE PLANS.
 4. ANCHOR THE COIR LOGS WITH WOODEN STAKES IN PAIRS EVERY 1.5 FEET AT ANGLES SHOWN IN THE DETAIL.

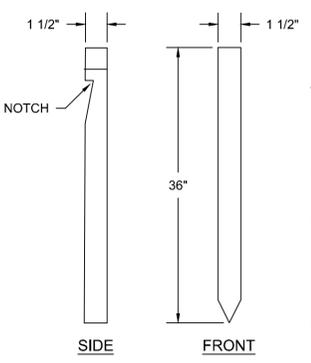


- NOTES:**
1. FILTER BAGS SHALL BE REPLACED WHEN THEY BECOME 1/2 FULL OF SEDIMENT. SPARE BAGS SHALL BE KEPT AVAILABLE FOR REPLACEMENT OF THOSE THAT HAVE FAILED OR ARE FILLED.
 2. BAGS SHALL BE LOCATED IN WELL-VEGETATED AREAS AND DISCHARGE ONTO STABLE, EROSION-RESISTANT AREAS. WHERE THIS IS NOT POSSIBLE, A GEO-TEXTILE UNDERLAYMENT AND FLOW PATH SHALL BE PROVIDED. BAGS MAY BE PLACED ON FILTER STONE TO INCREASE DISCHARGE CAPACITY. BAGS SHALL NOT BE PLACED ON SLOPES GREATER THAN 5%. FOR SLOPES GREATER THAN 5%, CLEAN ROCK OR OTHER NON-POLLUTING MATERIAL MAY BE PLACED UNDER THE BAG TO REDUCE SLOPE STEEPNESS.
 3. THE PUMPING RATE SHALL BE NO GREATER THAN 750 GPM OR 1/2 THE MAXIMUM SPECIFIED BY THE MANUFACTURER, WHICHEVER IS LESS. PUMP INTAKES SHALL BE FLOATING AND SCREENED.
 4. FILTER BAGS SHALL BE INSPECTED DAILY. IF ANY PROBLEM IS DETECTED, PUMPING SHALL CEASE IMMEDIATELY AND NOT RESUME UNTIL THE PROBLEM IS CORRECTED.



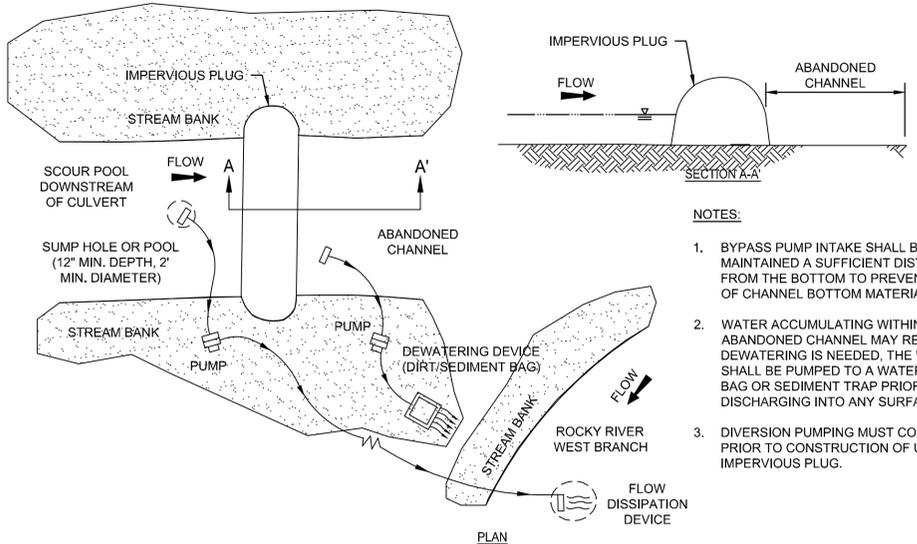
DETAIL - DEWATERING BAG C-007

DEWATERING BAG SPECIFICATIONS			
MECHANICAL PROPERTIES	TEST METHOD	UNITS	MARV
GRAB TENSILE STRENGTH	ASTM D 4632	KN (LBS)	0.9 (205) X 0.9 (205)
GRAB TENSILE ELONGATION	ASTM D 4632	%	50 X 50
PUNCTURE STRENGTH	ASTM D 4833	KN (LBS)	0.58 (130)
MULLEN BURST STRENGTH	ASTM D 3786	KPA (PSI)	2618 (380)
TRAPEZOID TEAR STRENGTH	ASTM D 4533	KN (LBS)	0.36 (80) X 0.36 (80)
UV RESISTANCE	ASTM D 4533	%	70
APPARENT OPENING SIZE	ASTM D 4751	MM (US STD SIEVE)	0.18 (80)
FLOW RATE	ASTM D 4491	1/MIN/M² (GAL/MIN/FT²)	3866 (95)
PERMITTIVITY	ASTM D 4491	SEC⁻¹	1.20



DETAIL - DEAD STAKE C-004

- NOTES:**
1. DEAD STAKES SHALL BE OF MINIMUM DIMENSIONS SHOWN AND SHALL BE GENERALLY FREE OF ANY KNOTS.
 2. ALL DEAD STAKES SHALL BE RELATIVELY STRAIGHT AND WITHOUT ANY ROT OR WATER DAMAGE.
 3. DEAD STAKES SHALL BE NOTCHED 1" TO 2" BELOW THE TOP OF THE STAKE TO ENGAGE EROSION CONTROL BLANKET WHEN INSTALLED.
 4. STAKES SPLIT DURING NOTCHING OR INSTALLATION SHALL BE DISCARDED FOR UNDEMANAGED STAKES.
 5. ALL VARIATIONS FROM THE STAKING DETAIL MUST BE APPROVED BY THE ENGINEER.



DETAIL - PUMP AROUND C-006

- NOTES:**
1. BYPASS PUMP INTAKE SHALL BE MAINTAINED A SUFFICIENT DISTANCE FROM THE BOTTOM TO PREVENT PUMPING OF CHANNEL BOTTOM MATERIAL.
 2. WATER ACCUMULATING WITHIN THE ABANDONED CHANNEL MAY REMAIN. IF DEWATERING IS NEEDED, THE WATER SHALL BE PUMPED TO A WATER FILTER BAG OR SEDIMENT TRAP PRIOR TO DISCHARGING INTO ANY SURFACE WATER.
 3. DIVERSION PUMPING MUST COMMENCE PRIOR TO CONSTRUCTION OF UPSTREAM IMPERVIOUS PLUG.

DETAIL - SILT FENCE C-003

- NOTES:**
1. ALL EARTHWORK ACTIVITY SHALL BE LOCATED UPHILL OF SILT FENCE.
 2. SILT FENCE SHALL BE INSTALLED ACROSS SLOPES ON THE CONTOUR LINE.
 3. ATTACH FILTER FABRIC TO WOODEN STAKES WITH STAPLES, HOGRINGS OR OTHER MATERIALS APPROVED BY THE ENGINEER.
 4. WOODEN STAKES SHALL BE INSTALLED ON THE DOWNHILL SIDE OF FILTER FABRIC.
 5. BURY THE BOTTOM 12 INCHES OF FILTER FABRIC IN A 6"x6" TRENCH (TO PREVENT SEDIMENT FROM ESCAPING UNDER THE FENCE) AND BACK FILL WITH SOIL.
 6. JOIN SILT FENCE SECTIONS BY ROLLING END STAKES TOGETHER TO CREATE AN UNBROKEN SEDIMENT BARRIER.



REV NO	DATE	ISSUED BY	REMARKS

DESIGNED BY: XXX
 DRAWN BY: SJJ
 SHEET CHK'D BY: XXX
 CROSS CHK'D BY: _____
 APPROVED BY: _____
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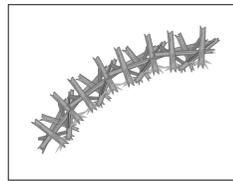
ROCKY RIVER TRIBUTARY STABILIZATION AND RE-ALIGNMENT
 PROJECT 1555

STREAM RESTORATION CIVIL
 SWPPP DETAILS
 ROCKY RIVER TRIBUTARY

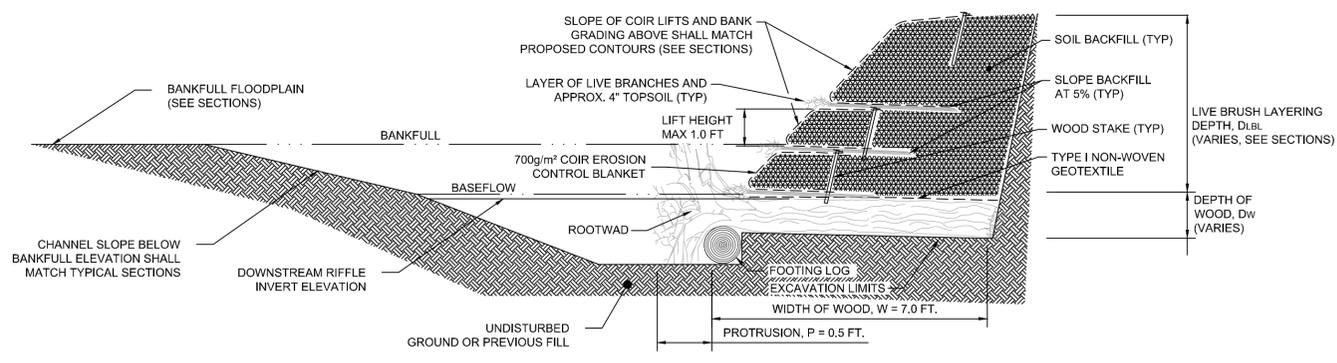
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PROJECT SET: 001 of 007
 C SHEET: 10 OF 16
 SHEET NO.: C-1-010

S:\17-0035-01\SHEET FILES\SS-741-5-C-1-010 - SWPPP DETAILS.DWG - CS-741-5-C-1-010 - MPH-ACID-20120208 - PLOTTED 3/21/2019 10:41 AM BY: BCD/ARS



PLAN - SYMBOL



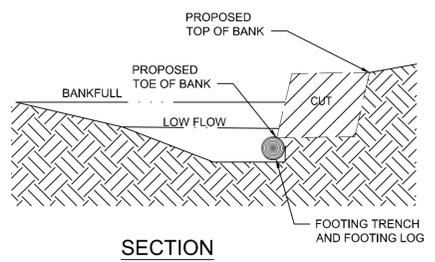
DIAMETER VARIES (TYP 1/4 TO 1/2")

LIVE BRANCH

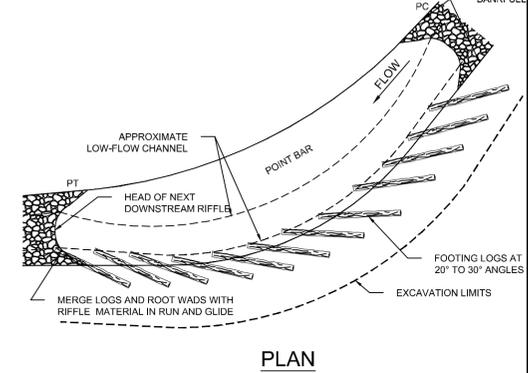
SECTION A
NOT TO SCALE

STEP 1

EXCAVATE BENCH FOR WOOD TOE MATERIAL. EXCAVATE FOOTING TRENCH IN LOWER BENCH AND PLACE FOOTING LOGS.



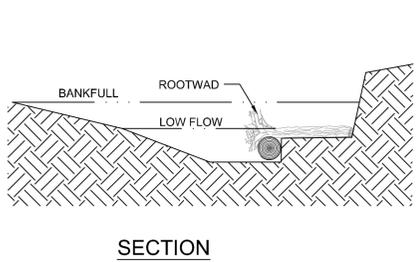
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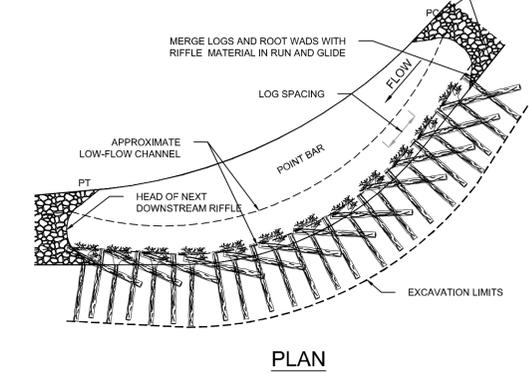
PLAN

STEP 2

PLACE ROOT WAD LOGS CANTILEVERED OVER FOOTER LOGS.



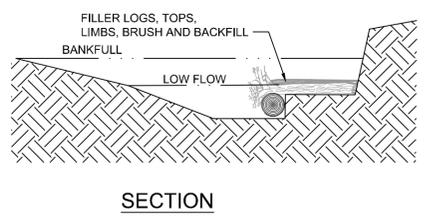
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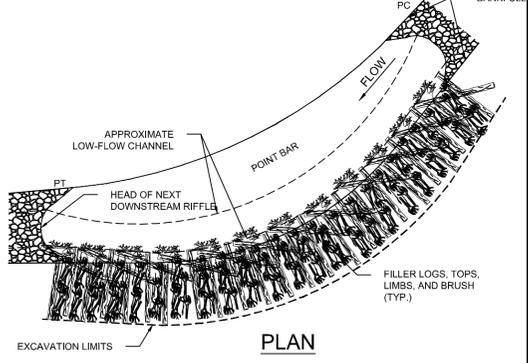
PLAN

STEP 3

PLACE FILLER MATERIAL (SMALL LOGS, LIMBS, TREE TOPS AND BRUSH) BETWEEN AND ON TOP OF THE ROOT WADS. THEN PLACE BACKFILL BETWEEN FILLER MATERIAL AND ROOTWADS.



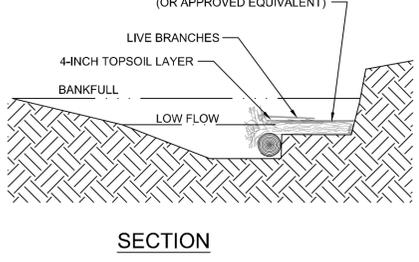
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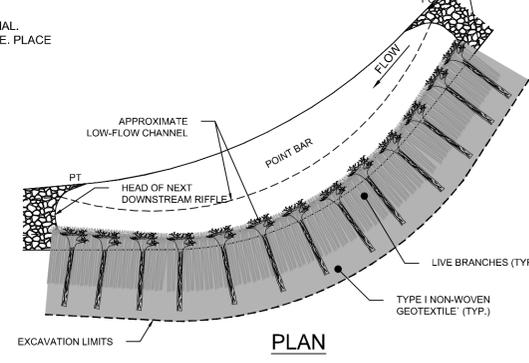
PLAN

STEP 4

PLACE TYPE I NON-WOVEN GEOTEXTILE FABRIC OVER FILLER MATERIAL. PLACE APPROXIMATELY 4 INCHES OF TOPSOIL OVER THE GEOTEXTILE. PLACE A LAYER OF LIVE BRANCHES OVER THE 4-INCH TOPSOIL LAYER.



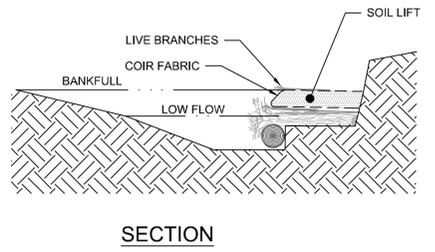
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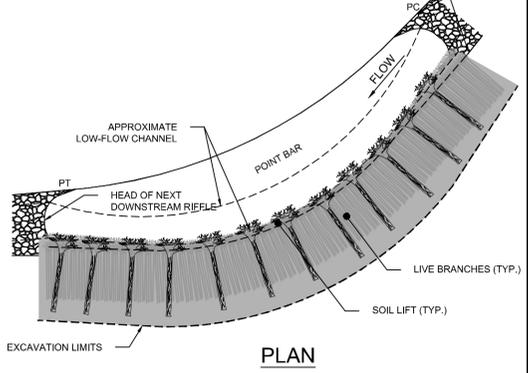
PLAN

STEP 5

INSTALL COIR-WRAPPED SOIL LIFT OVER FIRST LIVE BRANCH LAYER. PLACE APPROXIMATELY 4 INCHES OF SOIL OVER THE LIFT AND PLACE A LAYER OF LIVE BRANCHES OVER THE TOPSOIL.



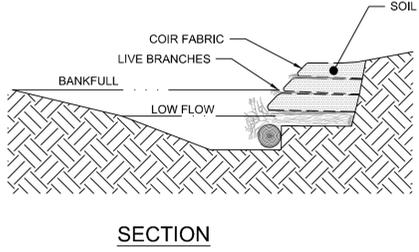
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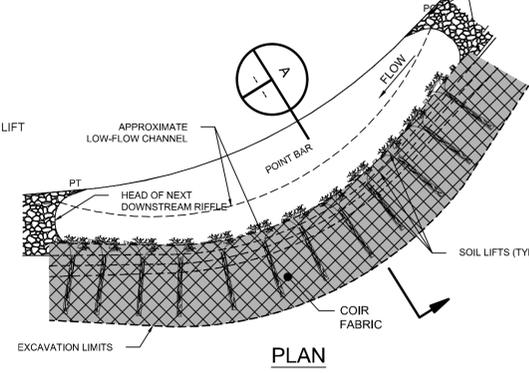
PLAN

STEP 6

INSTALL COIR WRAPPED SOIL LIFTS AND LAYERS OF CUTTINGS BETWEEN SOIL LIFTS UP TO THE PROPOSED TOP OF BANK.



SECTION



PLAN

DETAIL - TOE WOOD
NOT TO SCALE C-011

NOTES:

- ELEVATION OF COIR LIFT AND TOE WOOD PROTECTION MAY VARY AT TIME OF CONSTRUCTION AS DIRECTED BY THE ENGINEER.
- COARSE WOODY DEBRIS SHALL CONSIST OF LOGS, ROOTWADS, AND LARGE BRANCHES NOT SUITABLE FOR FOOTING LOGS OR ROOTWADS. ALL MATERIALS ARE TO BE APPROVED BY ENGINEER.
- COARSE WOODY DEBRIS SHALL BE CONSTRUCTED WITH THE LARGEST MATERIAL PLACED FIRST. NO LOGS SHALL BE PLACED PARALLEL TO THE FLOW OF WATER, UNLESS DIRECTED BY ENGINEER. LOGS SHALL BE PLACED IN A CROSSING PATTERN OR WEAVE SUCH THAT EACH LOG IS ANCHORED BY ANOTHER LOG OR SMALL WOODY DEBRIS.
- SMALL/FINE WOODY DEBRIS SHALL CONSIST OF MEDIUM TO SMALL LIMBS AND CAN BE BRANCHES, BUSHES, AND/OR LOGS. INVASIVE SPECIES SHALL NOT BE USED.
- SMALL/FINE WOODY DEBRIS SHALL BE PLACED ABOVE AND BETWEEN THE COARSE WOODY DEBRIS WITH THE LARGEST MATERIAL BEING PLACED FIRST AND THE SMALLEST MATERIAL PLACED LAST.
- ALL WOODY DEBRIS SHALL BE COMPACTED WITH THE EXCAVATOR BUCKET IN ORDER TO REDUCE THE PRESENCE OF VOIDS IN THE SMALL/FINE WOODY DEBRIS LAYER.
- THE HORIZONTAL LOCATIONS OF ALL WOODY DEBRIS ARE LOCATED ON THE PLAN/PROFILE SHEETS AND STRUCTURE TABLES. LOCATIONS OF WOODY DEBRIS SHALL NOT VARY FROM THE PLAN LOCATIONS WITHOUT DIRECTION FROM THE STAMPING ENGINEER.
- TYPE I NON-WOVEN GEOTEXTILE SHALL BE INSTALLED ABOVE THE HIGHEST ELEVATION OF THE WOODY DEBRIS BEFORE THE SOIL LIFTS ARE INSTALLED. TYPE 1 GEOTEXTILE FABRIC IS INCIDENTAL TO CONSTRUCTION.
- THE SOIL BACKFILL USED FOR LIFTS AND TOPSOIL USED FOR LAYERING WITH THE LIVE BRANCHES SHALL BE FREE OF LARGE ROOTS OR WOODY DEBRIS AND SHALL GENERALLY BE FREE FROM COBBLE MATERIAL.
- SOIL BACKFILL SHALL BE COMPACTED SUCH THAT FUTURE SETTLING WILL BE KEPT TO A MINIMUM; YET, NOT SUCH THAT THE UNDERLYING BRUSH IS DISPLACED OR DAMAGED.
- TOP OF WOOD SHALL BE APPROXIMATELY EQUAL TO THE ELEVATION OF THE INVERT OF THE NEXT DOWNSTREAM RIFFLE, BUT NO HIGHER THAN 6" ABOVE.
- THE TOP OF THE BACKFILL FOR THE FIRST LIFT SHALL BE SLOPED AT APPROXIMATELY 5% AWAY FROM THE STREAM.
- PLACE A LAYER OF TOPSOIL AND LIVE BRANCHES ON TOP OF EACH SOIL LIFT SUCH THAT APPROXIMATELY 6 INCHES TO 1 FOOT OF EACH LIVE BRANCH WILL BE EXPOSED AND THE REMAINDER (2' TO 4') OF EACH LIVE BRANCH WILL BE COVERED BY THE NEXT SOIL LIFT.
- LIVE BRANCHES SHALL BE INSTALLED DURING THE DORMANT SEASON (NOVEMBER 1 - APRIL 30).
- LIVE BRANCHES SHALL BE OF THE SPECIES SPECIFIED FOR LIVE STAKES.
- PLACE A LAYER OF 6.7 FEET WIDE 700 gm/m² WOVEN COIR EROSION CONTROL BLANKET, OR EQUIVALENT, ON TOP OF THE TOPSOIL AND LIVE BRANCHES SUCH THAT 2 FEET OF THE BLANKET WILL BE BURIED BELOW THE NEXT SOIL LIFT. ALLOW THE REMAINING 4.5 FEET OF BLANKET TO HANG OVER THE PRECEDING SOIL LIFT OR COIR FIBER LOGS.
- PLACE SOIL BACKFILL UP TO THE LIFT HEIGHT SPECIFIED OF NO GREATER THAN 1.0 FT BEING CAREFUL NOT TO PUSH/PULL OR TEAR THE BLANKET PREVIOUSLY PLACED.
- THE TOP OF THE SOIL BACKFILL SHALL BE FLAT WITHIN THE LIFT SETBACK DISTANCE SPECIFIED IN THE STRUCTURE TABLE. BEYOND THE LIFT SETBACK DISTANCE, THE SOIL BACKFILL SHALL BE SLOPED AT AN APPROXIMATE 5% SLOPE AWAY FROM THE STREAM.
- TOP DRESS THE SOIL LIFT WITH TOPSOIL FROM THE FACE OF THE SOIL LIFT BACK INTO THE FLOODPLAIN AT LEAST 4FT.
- SPRINKLE SEED MIX AND STRAW ON FACE OF SOIL LIFT.
- WRAP THE FACE AND TOP OF THE SOIL LIFT USING THE COIR EROSION CONTROL HANGING OVER THE PREVIOUS LIFT.
- THE EROSION CONTROL BLANKET SHALL BE PULLED AS TIGHT AS POSSIBLE WITHOUT TEARING OR EXCESSIVELY DISTORTING THE FABRIC.
- SECURE THE COIR EROSION CONTROL BLANKET IN PLACE BY STAKING THE END OF THE BLANKET WITH WOODEN STAKES ON 1.5-FOOT CENTERS.
- BEGIN CONSTRUCTION OF THE NEXT SOIL LIFT BY REPEATING THE PREVIOUS NOTES STARTING WITH NOTE 12.
- THE OVERALL SLOPE CREATED BY THE LIVE BRUSH LAYERING SHALL MATCH THE PROPOSED CROSS SECTION SHAPE FOR THE OUTER BANK OF THE TYPICAL POOL CROSS-SECTION FOR EACH REACH.
- THE COIR BLANKETS USED FOR THE UPPER MOST SOIL LIFT WILL BE SECURED WOODEN STAKES AS SHOWN IN THE DEAD STAKE DETAIL.
- THE SURFACE OF THIS STRUCTURE SHALL BE FINISHED TO A SMOOTH AND COMPACT SURFACE IN ACCORDANCE WITH THE LINES, GRADES, AND CROSS-SECTIONS OR ELEVATIONS SHOWN ON THE DRAWINGS. THE DEGREE OF FINISH FOR ELEVATIONS SHALL BE WITHIN 0.1 FT OF THE GRADES AND ELEVATIONS INDICATED.
- RE-DRESSING OF CHANNEL AND BANKFULL BENCH/FLOODPLAIN WILL LIKELY BE REQUIRED FOLLOWING INSTALLATION OF IN-STREAM STRUCTURES AND SHALL BE CONSIDERED INCIDENTAL TO CONSTRUCTION.
- SOD MAT MAY BE USED INSTEAD OF THE COIR LIFTS ABOVE THE WOOD TOE IF IT IS AVAILABLE AND APPROVED BY ENGINEER.
- LENGTH SHOWN IN STRUCTURE TABLE REFLECTS LENGTH OF WOOD TOE ALONG THE BANK, NOT THE CENTERLINE.
- IF LIVE BRANCHES ARE NOT INSTALLED (I.E. THE STRUCTURE IS BUILT OUTSIDE OF THE DORMANT SEASON) OR DO NOT SURVIVE, LIVE STAKES SHALL BE INSTALLED ALONG THE STRUCTURE BETWEEN LOW FLOW AND TOP OF BANK AT A DENSITY OF 2 PER SQUARE YARD. REPLACEMENT LIVE STAKES SHALL BE INSTALLED DURING THE FIRST DORMANT SEASON FOLLOWING LIFT CONSTRUCTION.

TOE WOOD TABLE			
STATION	DESCRIPTION	OFFSET FROM BKF	TOP OF LOG ELEV.
0+94	BEGIN WOOD TOE IN RUN	2.6'	844.5'
1+08	WOOD TOE IN POOL	2.1'	844.5'
1+20	END WOOD TOE IN GLIDE	2.6'	844.5'
1+55	BEGIN WOOD TOE IN RUN	2.6'	843.5'
1+73	WOOD TOE IN POOL	2.1'	843.5'
1+91	END WOOD TOE IN GLIDE	2.6'	843.5'
2+34	BEGIN WOOD TOE IN RUN	2.6'	842.4'
2+47	WOOD TOE IN POOL	2.1'	842.4'
2+60	END WOOD TOE IN GLIDE	2.6'	842.4'



REV NO	DATE	ISSUED BY	REMARKS

DESIGNED BY: XXX
 DRAWN BY: SJJ
 SHEET CHK'D BY: XXX
 CROSS CHK'D BY: _____
 APPROVED BY: _____
 ISSUED DATE: _____

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ROCKY RIVER TRIBUTARY STABILIZATION AND RE-ALIGNMENT
 PROJECT 1555

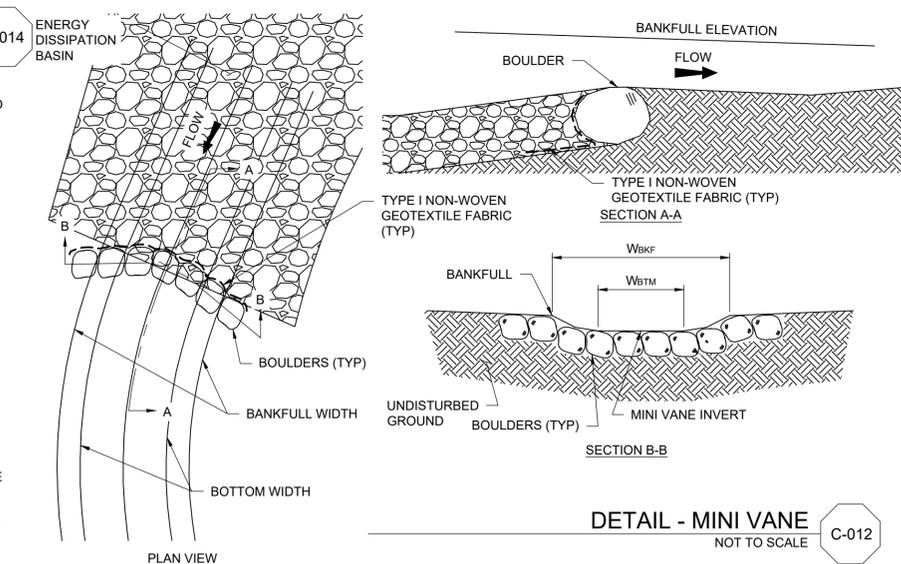
STREAM RESTORATION CIVIL
 STREAM RESTORATION DETAILS - 1

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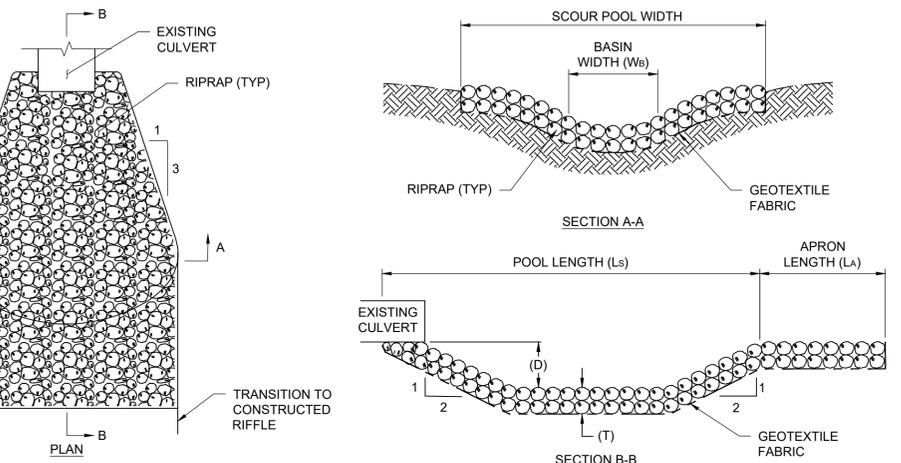
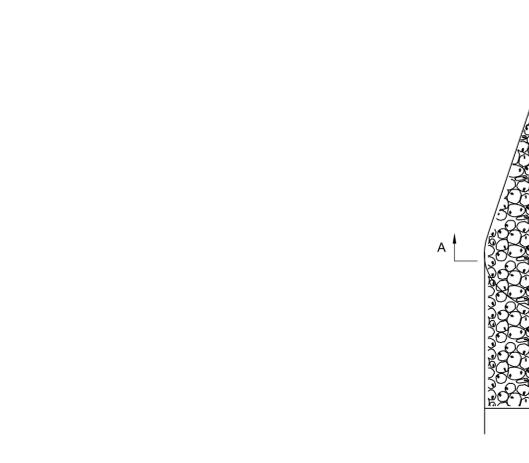
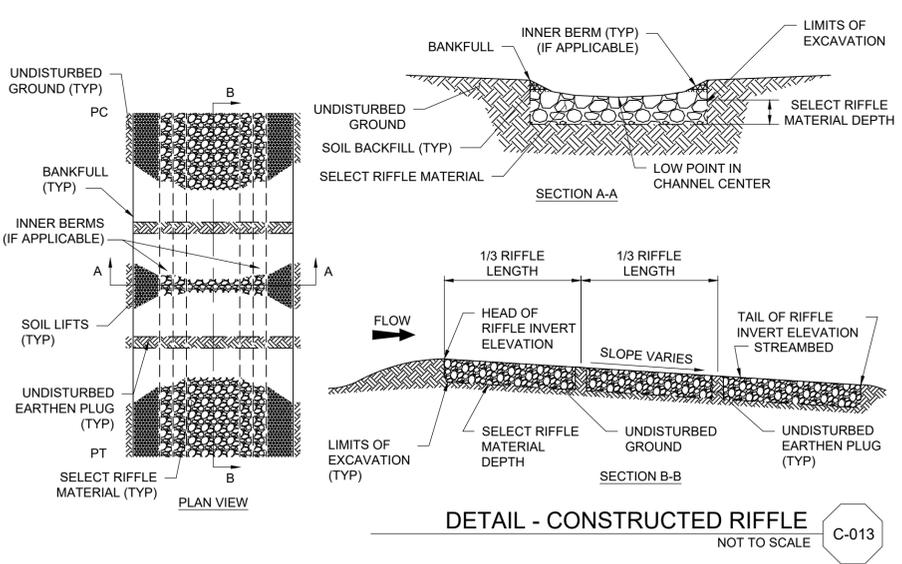
PROJECT SET: 001 of 007
 C SHEET: 11 OF 16
 SHEET NO.: C-1-011

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- NOTES:**
- REFER TO ENERGY DISSIPATION BASIN DETAIL FOR UPSTREAM BASIN CONSTRUCTION.
 - BOULDERS SHALL BE A MINIMUM OF 3 FEET INTERMEDIATE AXIS DIAMETER.
 - THE HORIZONTAL ANGLE OF THE HEADER BOULDERS OF THE MINI-VANE AND THE BANK SHALL BE BETWEEN 45-50 DEGREES.
 - THE BOULDERS SHALL SLOPE FROM THE BED ELEVATION AT THE HEAD OF THE VANE, TO 1/2 BANKFULL ELEVATION AT A SLOPE OF 2%-5%.
 - BOULDERS SHALL BE TIED SECURELY INTO THE BANK IN SUCH A WAY THAT IT ELIMINATES THE POSSIBILITY OF STREAMFLOW DIVERTING AROUND THEM.
 - ANY SOIL DISTURBED DURING THE PLACEMENT OF MINI VANE, SHALL BE SEEDED USING TEMPORARY AND PERMANENT SEEDING METHODS.
 - ALL GAPS/VOIDS LARGER THAN 2 INCHES BETWEEN BOULDERS SHALL BE CHINKED WITH SELECT BACKFILL MATERIAL.
 - ON THE UPSTREAM SIDE OF THE BOULDERS A LAYER OF NON-WOVEN GEOTEXTILE FABRIC SHALL BE PLACED AS SHOWN IN SECTION A-A THE ENTIRE LENGTH OF THE BOULDER STRUCTURE.
 - BACKFILL STRUCTURE WITH SELECT BACKFILL MATERIAL AS SHOWN IN SECTION A-A.
 - SELECT BACKFILL AND SOIL BACKFILL MATERIAL SHALL BE COMPACTED SUCH THAT FUTURE SETTLEMENT OF THE MATERIAL IS KEPT TO A MINIMUM.
 - THE SURFACE OF THIS STRUCTURE SHALL BE FINISHED TO A SMOOTH AND COMPACT SURFACE IN ACCORDANCE WITH THE LINES, GRADES, AND CROSS-SECTIONS OR ELEVATIONS SHOWN ON THE DRAWINGS. THE DEGREE OF FINISH FOR INVERT ELEVATIONS SHALL BE WITHIN 0.1 FT OF THE GRADES AND ELEVATIONS INDICATED, PROVIDED ANY HEIGHT DOES NOT EXCEED 0.2 FT.
 - RE-DRESSING OF CHANNEL AND BANKFULL BENCH/FLOODPLAIN WILL LIKELY BE REQUIRED FOLLOWING INSTALLATION OF IN-STREAM STRUCTURES AND SHALL BE CONSIDERED INCIDENTAL TO CONSTRUCTION.



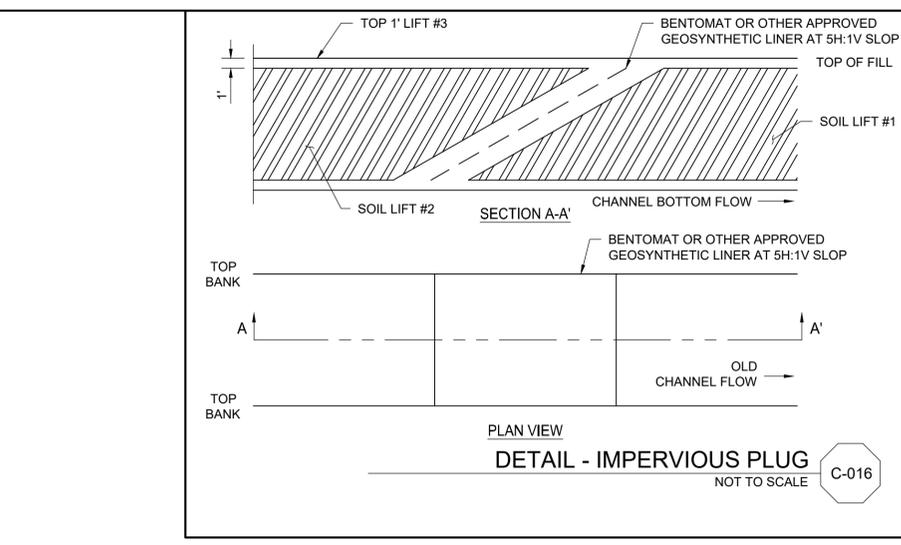
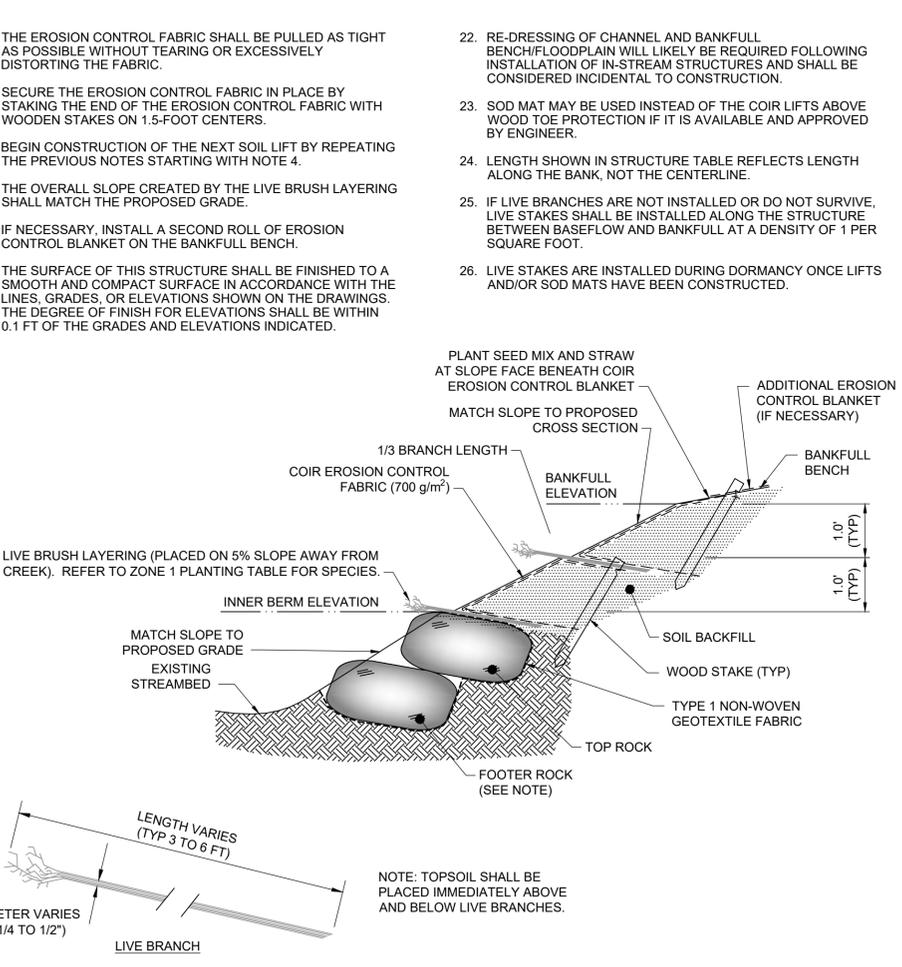
- NOTES:**
- SELECT RIFFLE MATERIAL SHALL CONSIST OF ODOT TYPE C RIPRAP CHINKED WITH NATIVE CHANNEL MATERIAL TO FILL VOIDS.
 - ANY NATIVE GRAVEL OR COBBLE MATERIAL EXCAVATED DURING CHANNEL CONSTRUCTION EFFORTS ELSEWHERE ON THIS PROJECT MEETING THE SELECT RIFFLE MATERIAL SPECIFICATIONS SHALL BE STOCKPILED FOR USE AS A SUBSTITUTION FOR THE SELECT RIFFLE MATERIAL UNLESS OTHERWISE DIRECTED BY THE ENGINEER.
 - SEE THE TYPICAL SECTIONS SHEET FOR RIFFLE CROSS SECTION DIMENSIONS.
 - SELECT RIFFLE MATERIAL DEPTH SHALL AVERAGE 2.0 FEET UNLESS OTHERWISE DIRECTED BY THE ENGINEER.
 - SELECT RIFFLE MATERIAL SHALL BE PLACED THE ENTIRE BANKFULL WIDTH AT A UNIFORM THICKNESS.
 - THE LOWEST POINT IN SELECT RIFFLE MATERIAL PLACEMENT SHALL BE IN THE CENTER OF THE CHANNEL AS PER THE DETAIL.
 - SET INVERTS AT ELEVATIONS SHOWN IN REACH PROFILE.
 - TWO UNDISTURBED EARTHEN PLUGS, APPROXIMATELY 2 FOOT IN THICKNESS AND EQUALLY SPACED THROUGHOUT THE RIFFLE, SHALL BE LEFT TO HELP MAINTAIN SURFACE FLOW THROUGH THE RIFFLE DURING LOW FLOW PERIODS.
 - SELECT RIFFLE MATERIAL SHALL BE COMPACTED SUCH THAT FUTURE SETTLEMENT OF THE MATERIAL IS KEPT TO A MINIMUM.
 - THE SURFACE OF THIS STRUCTURE SHALL BE FINISHED TO A SMOOTH AND COMPACT SURFACE IN ACCORDANCE WITH THE LINES, GRADES, AND CROSS-SECTIONS OR ELEVATIONS SHOWN ON THE DRAWINGS. THE DEGREE OF FINISH FOR INVERT ELEVATIONS SHALL BE WITHIN 0.1 FT OF THE GRADES AND ELEVATIONS INDICATED.
 - SOIL LIFTS SHALL BE CONSTRUCTED AS SHOWN IN THE TOE WOOD DETAIL CONFORMING TO UPPER BANKS IN THE TYPICAL RIFFLE SECTION AND FLOODPLAIN GRADING ON THE PLAN VIEW.



BASIN DIMENSIONS							
BASIN #	POOL LENGTH (Ls)	APRON LENGTH (La)	WIDTH (Wb)	DEPTH (D)	RIPRAP SIZE	RIPRAP THICKNESS (T)	NOTES
1	65'	NONE	33'	2.6'	TYPE C	3.0'	SEE SECTIONS FOR SIDE SLOPES

DETAIL - ENERGY DISSIPATION BASIN NOT TO SCALE C-014

- NOTES:**
- FOR BOULDER TOE PROTECTION: STACK BOULDERS (3.0' MIN INTERMEDIATE AXIS DIAMETER) FROM 4" BELOW CHANNEL BED OR FROM BEDROCK, WHICHEVER IS LOWER, TO THE INNER BERM ELEVATION. GEOTEXTILE FABRIC SHALL BE PLACED BEHIND BOULDERS TO PREVENT PIPING THROUGH GAPS. AT TRANSITIONS AT BOTH ENDS OF THE BOULDER TOE, TIE THE BOULDERS INTO THE UPSTREAM AND DOWNSTREAM FEATURES TO PREVENT WASHING OF SOIL FROM BEHIND THE BOULDERS.
 - RECONSTRUCT THE SLOPES SUCH THAT THE OVERALL SLOPE MATCHES THE PROPOSED GRADE.
 - THE SOIL BACKFILL USED FOR LIFTS AND TOPSOIL USED FOR LAYERING WITH THE LIVE BRANCHES SHALL BE FREE OF ANY LARGE ROOTS OR WOODY DEBRIS AND SHALL GENERALLY BE FREE FROM ANY COBBLE MATERIAL.
 - SOIL BACKFILL SHALL BE COMPACTED SUCH THAT FUTURE SETTLING WILL BE KEPT TO A MINIMUM; YET, NOT SUCH THAT THE UNDERLYING BRUSH IS DISPLACED OR DAMAGED.
 - WHEN INSTALLING SOIL LIFTS ABOVE ROCK TOE OR BOULDER TOE, BACKFILL ON TOP OF GEOTEXTILE INSTALLED WITH TOE TREATMENT. WHEN INSTALLING SOIL LIFTS ABOVE RIFFLE ARMOR, FIRST ENSURE VOIDS IN THE RIFFLE ARMOR HAVE BEEN FILLED WITH GRAVEL AND FINES BEFORE INSTALLING SOIL LIFTS.
 - THE TOP OF THE BACKFILL SHALL BE SLOPED AT APPROXIMATELY 5% AWAY FROM THE STREAM.
 - PLACE A LAYER OF TOPSOIL AND LIVE BRANCHES ON TOP OF EACH SOIL LIFT SUCH THAT APPROXIMATELY 1/3 OF BRANCH LENGTH EXTENDS BEYOND THE BANK AND THE REMAINDER WILL BE COVERED BY THE NEXT SOIL LIFT.
 - LIVE BRANCHES SHALL BE OF THE SPECIES SPECIFIED FOR LIVE STAKES.
 - PLACE A MINIMUM OF 5 STEMS PER RUNNING FOOT OF BANK IN A SLIGHT CRISS-CROSS PATTERN.
 - PLACE A LAYER OF 6.7 FEET WIDE GEOCOIR DEKOWE 700 WOVEN EROSION CONTROL BLANKET, OR EQUIVALENT, ON TOP OF THE TOPSOIL AND LIVE BRANCHES SUCH THAT 2 FEET OF THE BLANKET WILL BE BURIED BELOW THE NEXT SOIL LIFT. ALLOW THE REMAINING 4.5 FEET OF BLANKET TO HANG OVER THE PRECEDING SOIL LIFT OR TOE TREATMENT.
 - PLACE SOIL BACKFILL UP TO THE LIFT HEIGHT SPECIFIED OF NO GREATER THAN 1.0 FT BEING CAREFUL NOT TO PUSH/PULL OR TEAR THE FABRIC PREVIOUSLY PLACED.
 - THE SOIL BACKFILL SHALL BE SLOPED AT AN APPROXIMATE 5% SLOPE AWAY FROM THE STREAM.
 - TOP DRESS THE SOIL LIFT WITH TOPSOIL FROM THE FACE OF THE SOIL LIFT BACK INTO THE FLOODPLAIN AT LEAST 4FT.
 - SPRINKLE SEED MIX AND STRAW ON SOIL WHERE IT WILL BE EXPOSED.
 - WRAP THE FACE AND TOP OF THE SOIL LIFT USING THE COIR MATTING HANGING OVER THE PREVIOUS LIFT/TOE TREATMENT.



DETAIL - IMPERVIOUS PLUG NOT TO SCALE C-016

S:\17-0035-01\SHEET FILES\65-741-S-C-1-012 - STREAM RESTORATION DETAILS - DWG - 65-741-S-C-1-012 - MH\ACAD\2021\CTB - PLOTTED 3/21/2019 10:47 AM BY RESOURCES



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 DRAWN BY: SJJ
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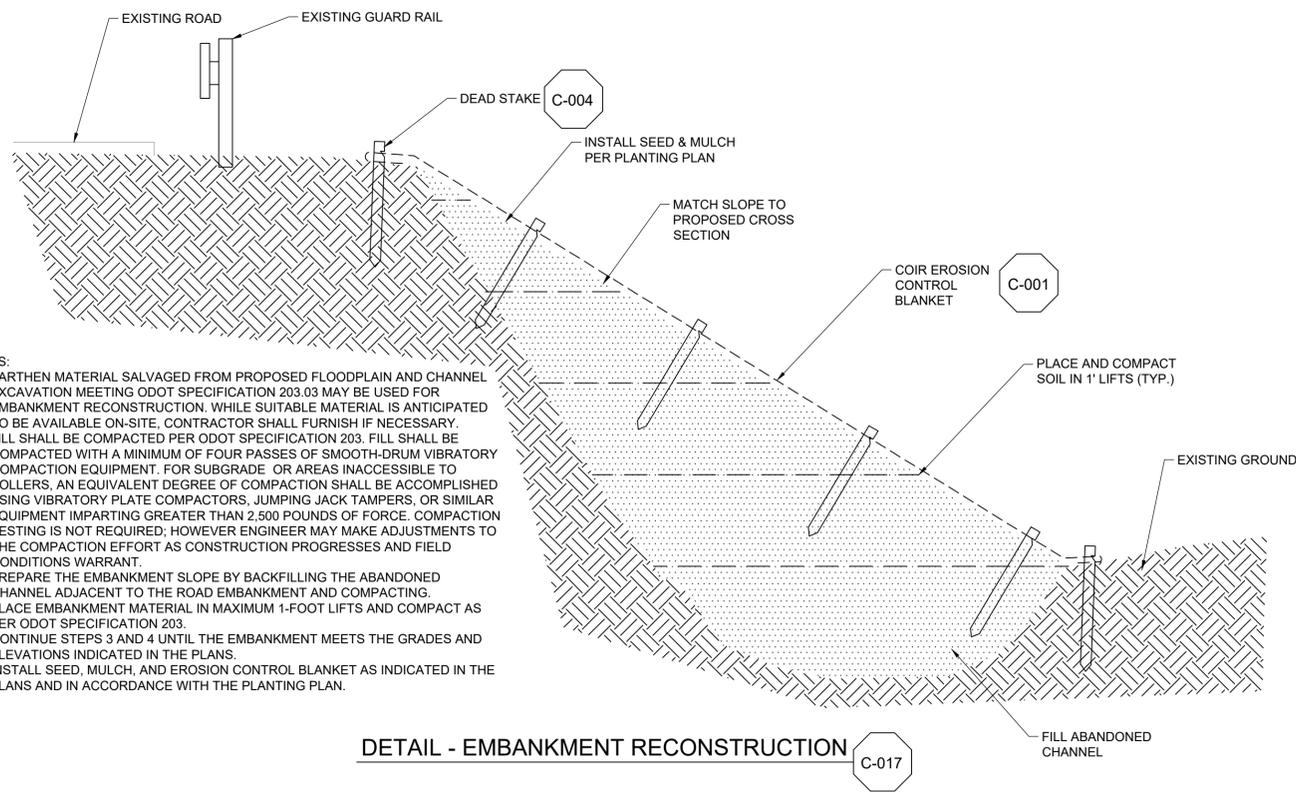
ROCKY RIVER TRIBUTARY STABILIZATION AND RE-ALIGNMENT
 PROJECT 1555

STREAM RESTORATION CIVIL
 STREAM RESTORATION DETAILS - II

WARNING
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PROJECT SET: 001 of 007
 C SHEET: 12 OF 16
 SHEET NO.: C-1-012

90% DRAWING SUBMITTAL



- NOTES:
1. EARTHEN MATERIAL SALVAGED FROM PROPOSED FLOODPLAIN AND CHANNEL EXCAVATION MEETING ODOT SPECIFICATION 203.03 MAY BE USED FOR EMBANKMENT RECONSTRUCTION. WHILE SUITABLE MATERIAL IS ANTICIPATED TO BE AVAILABLE ON-SITE, CONTRACTOR SHALL FURNISH IF NECESSARY.
 2. FILL SHALL BE COMPACTED PER ODOT SPECIFICATION 203. FILL SHALL BE COMPACTED WITH A MINIMUM OF FOUR PASSES OF SMOOTH-DRUM VIBRATORY COMPACTION EQUIPMENT. FOR SUBGRADE OR AREAS INACCESSIBLE TO ROLLERS, AN EQUIVALENT DEGREE OF COMPACTION SHALL BE ACCOMPLISHED USING VIBRATORY PLATE COMPACTORS, JUMPING JACK TAMPERS, OR SIMILAR EQUIPMENT IMPARTING GREATER THAN 2,500 POUNDS OF FORCE. COMPACTION TESTING IS NOT REQUIRED; HOWEVER ENGINEER MAY MAKE ADJUSTMENTS TO THE COMPACTION EFFORT AS CONSTRUCTION PROGRESSES AND FIELD CONDITIONS WARRANT.
 3. PREPARE THE EMBANKMENT SLOPE BY BACKFILLING THE ABANDONED CHANNEL ADJACENT TO THE ROAD EMBANKMENT AND COMPACTING.
 4. PLACE EMBANKMENT MATERIAL IN MAXIMUM 1-FOOT LIFTS AND COMPACT AS PER ODOT SPECIFICATION 203.
 5. CONTINUE STEPS 3 AND 4 UNTIL THE EMBANKMENT MEETS THE GRADES AND ELEVATIONS INDICATED IN THE PLANS.
 6. INSTALL SEED, MULCH, AND EROSION CONTROL BLANKET AS INDICATED IN THE PLANS AND IN ACCORDANCE WITH THE PLANTING PLAN.

S:\17-0055-01\SHEET_FILES\65-741-S-C-1-013 - STREAM RESTORATION DETAILS - PLANTING - 05-741-S-C-1-013 - MWH-ACAD-2012\210B - PLOTTED 3/21/2019 10:59 AM BY RSCYARS



**Northeast Ohio
Regional Sewer District**

REV NO	DATE	ISSUED BY	REMARKS

DESIGNED BY: _____ XXX
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 SHEET CHK'D BY: _____ XXX
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 APPROVED BY: _____
 ISSUED DATE: _____ X

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**ROCKY RIVER TRIBUTARY
STABILIZATION AND RE-ALIGNMENT**

PROJECT 1555

**STREAM RESTORATION
CIVIL**

STREAM RESTORATION DETAILS - III

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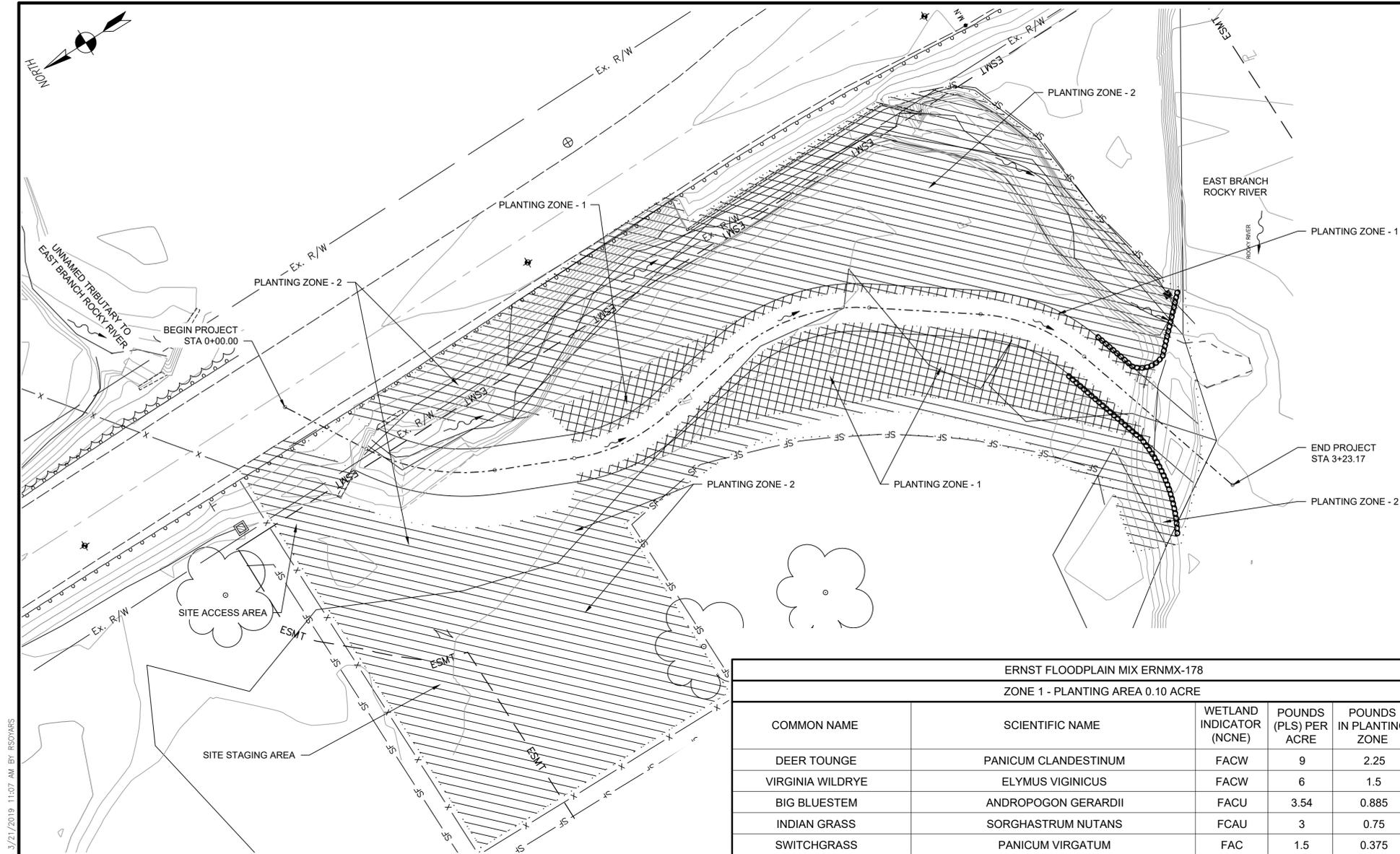
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PROJECT SET: 001 of 007

C SHEET: 13 OF 16

SHEET NO.: C-1-013



BARE ROOT SEEDLINGS; ZONE 2				
COMMON NAME	SCIENTIFIC NAME	WETLAND INDICATOR (NCNE)	SPACING	QUANTITY
SILVER MAPLE	ACER SACCHARINUM	FACW	10 x 10	50
EASTERN COTTONWOOD	POPULUS DELTOIDES	FACW	10 x 10	25
BLACKGUM	NYSSA SYLVATICA	FAC	10 x 10	50
AMERICAN SYCAMORE	PLATANUS OCCIDENTALIS	FACW	10 x 10	50
SWAMP WHITE OAK	QUERCUS BICOLOR	FACW	10 x 10	50
BOXELDER	ACER NEGUNDO	FAC	10 x 10	25
PIN OAK	QUERCUS PALUSTRIS	FACW	10 x 10	50
AMERICAN ELM	ULMUS AMERICANA	FACW	10 x 10	25
TOTAL				325

CONTAINERIZED TREES - 3 GALLON; ZONE 2				
COMMON NAME	SCIENTIFIC NAME	WETLAND INDICATOR (NCNE)	SPACING	QUANTITY
SILVER MAPLE	ACER SACCHARINUM	FACW	20 x 20	21
EASTERN COTTONWOOD	POPULUS DELTOIDES	FACW	20 x 20	20
BLACKGUM	NYSSA SYLVATICA	FAC	20 x 20	21
AMERICAN SYCAMORE	PLATANUS OCCIDENTALIS	FACW	20 x 20	21
SWAMP WHITE OAK	QUERCUS BICOLOR	FACW	20 x 20	21
BOXELDER	ACER NEGUNDO	FAC	20 x 20	20
PIN OAK	QUERCUS PALUSTRIS	FACW	20 x 20	21
AMERICAN ELM	ULMUS AMERICANA	FACW	20 x 20	20
TOTAL				165

ERNST FLOODPLAIN MIX ERNMX-154				
ZONE 2 - PLANTING AREA 0.5 ACRE				
COMMON NAME	SCIENTIFIC NAME	WETLAND INDICATOR (NCNE)	POUNDS (PLS) PER ACRE	POUNDS IN PLANTING ZONE
FOX SEDGE	CAREX VULPINOIDEA	OBL	4.6	2.3
DEER TOUNGE	PANICUM CLANDESTINUM	FACW	4.1	2.05
VIRGINIA WILDRYE	ELYMUS VIGINICUS	FACW	4	2
BIG BLUESTEM	ANDROPOGON GERARDII	FACU	2	1
HOP SEDGE	CAREX LUPULINA	OBL	0.84	0.42
LURID SEDGE	CAREX LURIDA	OBL	0.8	0.4
BLUNT BROOM SEDGE	CAREX SCOPARIA	FACW	0.8	0.4
SOFT RUSH	JUNCUS EFFUSUS	OBL	0.6	0.3
BLUE VERVAIN	VERBENA HASTATA	FACW	0.6	0.3
OXEYE SUNFLOWER	HELIOPSIS HELIANTHOIDES	FACU	0.4	0.2
SWAMP MILKWEED	ASCLEPIAS INCARNATA	OBL	0.2	0.1
WOOD REDGRASS	CINNA ARUNDINACEA	FACW	0.2	0.1
NEW ENGLAND ASTER	SYMPHYOTRICHUM NOVAE-ANGLIAE	FACW	0.08	0.04
FLAT TOPPED WHITE ASTER	ASTER UMBELLATUS (DOELLINGERIA UMBELLATA)	FACW	0.08	0.04
WATER PLANTAIN	ALISMA SUBCORDATUM	OBL	0.06	0.03
BONESET	EUPATORIUM PERFOLIATUM	FACW	0.06	0.03
WHITE SNAKEROOT	AGERATINA ALTISSIMA	FACU	0.06	0.03
COMMON SNEEZEWEED	HELENIUM AUTUMNALE	FACW	0.06	0.03
WILD BERGAMOT	MONARDA FISTULOSA	FACU	0.06	0.03
SENSITIVE FERN	ONOCLEA SENSIBILIS	FACW	0.06	0.03
NARROWLEAF MOUNTAINMINT	PYCNANTHEMUM TENUIFOLIUM	FAC	0.06	0.03
GREEN BULRUSH	SCIRPUS ATROVIRENS	OBL	0.06	0.03
WOOLGRASS	SCIRPUS CYPERINUS	OBL	0.06	0.03
TURTLEHEAD	CHELONE GLABRA	OBL	0.04	0.02
DITCH STONECROP	PENTHORUM SEDOIDES	OBL	0.04	0.02
WRINKLELEAF GOLDENROD	SOLIDAGO RUGOSA	FAC	0.04	0.02
TUSSOCK SEDGE	CAREX STRICTA	OBL	0.02	0.01
GREAT BLUE LOBELIA	LOBELIA SIPHILITICA	FACW	0.02	0.01
TOTAL			20	10

ERNST FLOODPLAIN MIX ERNMX-178				
ZONE 1 - PLANTING AREA 0.10 ACRE				
COMMON NAME	SCIENTIFIC NAME	WETLAND INDICATOR (NCNE)	POUNDS (PLS) PER ACRE	POUNDS IN PLANTING ZONE
DEER TOUNGE	PANICUM CLANDESTINUM	FACW	9	2.25
VIRGINIA WILDRYE	ELYMUS VIGINICUS	FACW	6	1.5
BIG BLUESTEM	ANDROPOGON GERARDII	FACU	3.54	0.885
INDIAN GRASS	SORGHASTRUM NUTANS	FCAU	3	0.75
SWITCHGRASS	PANICUM VIRGATUM	FAC	1.5	0.375
PARTRIDGE PEA	CHAMAECRISTA FASCICULATA	FACU	1.2	0.3
BLUE VERVAIN	VERBENA HASTATA	FACW	1.2	0.3
SOFT RUSH	JUNCUS EFFUSUS	OBL	0.9	0.225
BLACKEYED SUSAN	RUDBECKIA HIRTA	FACU	0.9	0.225
OXEYE SUNFLOWER	HELIOPSIS HELIANTHOIDES	FACU	0.6	0.15
SWAMP MILKWEED	ASCLEPIAS INCARNATA	OBL	0.3	0.075
NEW ENGLAND ASTER	SYMPHYOTRICHUM NOVAE-ANGLIAE	FACW	0.21	0.0525
FLAT TOPPED WHITE ASTER	ASTER UMBELLATUS (DOELLINGERIA UMBELLATA)	FACW	0.21	0.0525
BONESET	EUPATORIUM PERFOLIATUM	FACW	0.21	0.0525
AUTUMN BENTGRASS	AGROSTIS PERENNANS	FACU	0.15	0.0375
WHITE AVENS	GEUM CANADENSE	FAC	0.15	0.0375
COMMON SNEEZEWEED	HELENIUM AUTUMNALE	FACW	0.15	0.0375
WILD BERGAMOT	MONARDA FISTULOSA	FACU	0.15	0.0375
NEW YORK IRONWEED	VERNONIA NOVEBORACENSIS	FACW	0.15	0.0375
NARROWLEAF MOUNTAINMINT	PYCNANTHEMUM TENUIFOLIUM	FAC	0.12	0.03
ROUGHLEAF GOLDENROD	SOLIDAGO PATULA	OBL	0.12	0.03
SPOTTED JEO PYE WEED	EUTROCHIUM MACULATUM	OBL	0.09	0.0225
GREAT BLUE LOBELIA	LOBELIA SIPHILITICA	FACW	0.09	0.0225
PURPLESTEM ASTER	SYMPHYOTRICHUM PUNICEUM	OBL	0.06	0.015
TOTAL			30	7.5

CROVER CROP SEEDING SCHEDULE				
(TEMPORARY SEEDING)				
PLANTING AREA 1.0 ACRE				
COMMON NAME	SCIENTIFIC NAME	WETLAND INDICATOR	POUNDS (PLS) PER ACRE	POUNDS IN PLANTING ZONE
COMMON OAT	AVENA SATIVA	UPL	20	20
ANNUAL RYEGRASS	LOLIUM MULTIFLORUM	UPL	30	30
TOTAL			50	50

LIVE STAKING PLANTING SCHEDULE; ALONG INSIDE BENDS FROM INNER BERM TO BANKFULL				
COMMON NAME	SCIENTIFIC NAME	WETLAND INDICATOR (NCNE)	SPACING	QUANTITY
BLACK WILLOW	SALIX NIGRA	OBL	3 x 3	50
SILKY DOGWOOD	CORNUS AMOMUM	FACW	3 x 3	50
SANDBAR WILLOW	SALIX EXIGUA SSP INTERIOR	FACW	3 x 3	50
BUTTONBUSH	CEPHALANTHUS OCCIDENTALIS	OBL	3 x 3	50
TOTAL				200

S:\17-0055-01\SHEET FILES\65-741-S-C-1-014 - PLANTING PLAN - LDWG - 65-741-S-C-1-014 - MNR.ACAD.2021.DWG - PLOTTED 3/21/2019 11:07 AM BY: RCOVARS

90% DRAWING SUBMITTAL



REV NO	DATE	ISSUED BY	REMARKS

DESIGNED BY: xxx
 DRAWN BY: SJJ
 SHEET CHK'D BY: xxx
 CROSS CHK'D BY:
 APPROVED BY:
 ISSUED DATE: x

This document was originally issued by (Name) on XX/XX/XX. This document is not considered a sealed document.

ROCKY RIVER TRIBUTARY STABILIZATION AND RE-ALIGNMENT

PROJECT 1555

STREAM RESTORATION CIVIL

PLANTING PLAN - I

ROCKY RIVER TRIBUTARY

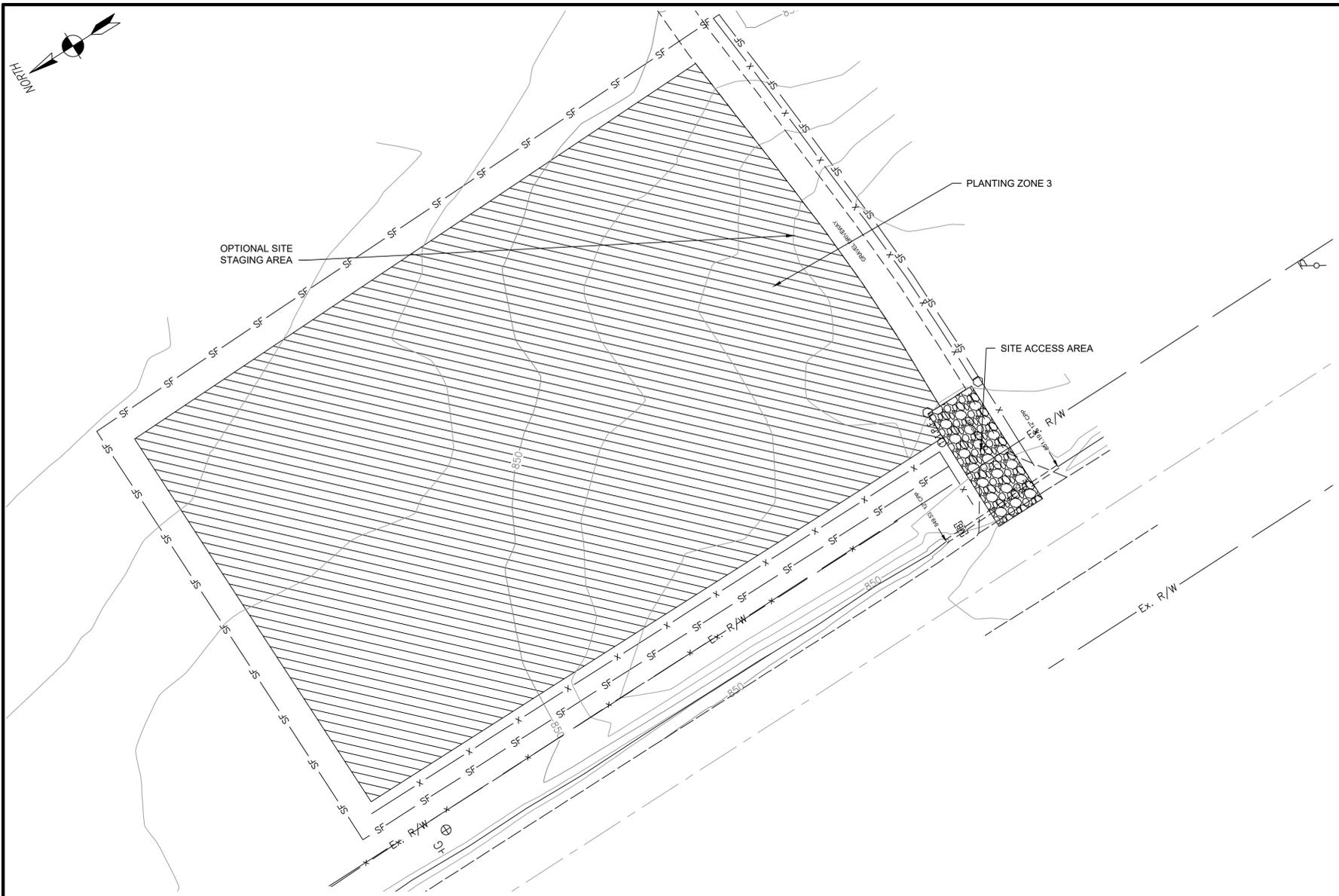
WARNING
 SCALE: 1" = 20'
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IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE

PROJECT SET: 001 of 007

C SHEET: 14 OF 16

SHEET NO.: C-1-014



90% DRAWING SUBMITTAL

COVER CROP SEEDING SCHEDULE				
(TEMPORARY SEEDING)				
PLANTING AREA 0.62 ACRE				
COMMON NAME	SCIENTIFIC NAME	WETLAND INDICATOR	POUNDS (PLS) PER ACRE	POUNDS IN PLANTING ZONE
COMMON OAT	AVENA SATIVA	UPL	20	20
ANNUAL RYEGRASS	LOLIUM MULTIFLORUM	UPL	30	30
	TOTAL		50	50

HAY MIX ERNMX - 108				
ZONE 3 - PLANTING AREA 0.62 ACRE				
COMMON NAME	SCIENTIFIC NAME	WETLAND INDICATOR	POUNDS (PLS) PER ACRE	POUNDS IN PLANTING ZONE
RED CLOVER	TRIFOLIUM PRATENSE	UPL	16	9.92
TALL FESCUE	FESTUCA ARUNDINACEA, 'BRONSON'	UPL	12	7.44
ALFALFA	MEDICAGO SATIVA	UPL	8	4.96
TIMOTHY	PHLEUM PRATENSE, 'CLIMAX'	UPL	4	2.48
	TOTAL		40	24.8

SCALE: 1" = 20'



REV NO	DATE	ISSUED BY	REMARKS

DESIGNED BY: XXX
 DRAWN BY: SJJ
 SHEET CHK'D BY: XXX
 CROSS CHK'D BY: _____
 APPROVED BY: _____
 ISSUED DATE: _____

This document was originally issued by (Name) on XXXX/XX/XX. This document is not considered a sealed document.

**ROCKY RIVER TRIBUTARY
 STABILIZATION AND RE-ALIGNMENT**

PROJECT 1555

STREAM RESTORATION
 CIVIL
 PLANTING PLAN - II
 ROCKY RIVER TRIBUTARY

WARNING
 0 1/2 1
 IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE

PROJECT SET: 001 of 007
 C SHEET: 15 OF 16
 SHEET NO.: C-1-015

S:\17-0035-01\SHEET_FILES\65-741-S-C-1-015 - PLANTING PLAN - ILDWS - 65-741-S-C-1-015 - MWL_A040_2019.DWG - PLOTTED 2/21/2019 11:12 AM BY RESVARS

A RESOLUTION DECLARING THE NECESSITY FOR APPROPRIATION AND ACQUISITION OF PERMANENT HIGHWAY AND ANCILLARY EASEMENTS AND RIGHT-OF-WAY INTERESTS (QUICK TAKE PROCEDURE) ON PORTIONS OF PERMANENT PARCEL NUMBERS 485-25-009, 485-25-011, 485-25-013 AND 485-25-015 IN THE CITY OF NORTH ROYALTON, FOR THE PUBLIC PURPOSE OF ROAD REPAIR, PRESERVATION AND STREAMBANK RESTORATION ON STATE ROUTE 3, RIDGE ROAD, AND DECLARING AN EMERGENCY

WHEREAS: The Ohio Department of Transportation has determined that a section of State Route 3, Ridge Road adjacent to the permanent parcels noted herein is in danger of collapse and requires emergency attention to protect the traveling public; and

WHEREAS: The city is obligated by law to maintain the public roads within the municipal limits and boundaries; and

WHEREAS: It is necessary for the city to appropriate certain real property located on Ridge Road, Permanent Parcel Numbers 485-25-009 and 485-25-015 (presently owned by Tom and Karin Wojcik), 485-25-011 (presently owned by Michael and Jacqueline Hanna) and 485-25-013 (presently owned by John and Donna Turner II) in order to improve, repair, reconstruct and preserve that section of roadway and relocate the adjacent stream which is eroding the roadway, all in conjunction with the Northeast Ohio Regional Sewer District, on the real properties at 18850, 18950, and 18900 Ridge Road in the City of North Royalton in accordance with the United States Constitution, the Ohio Constitution and R.C. Chapter 163 and 719; and

WHEREAS: It is necessary for the city to appropriate a permanent highway right-of-way and ancillary easement interests by quick-take procedure in and to each permanent parcel number listed herein in order to purchase the necessary easements for preserving and repairing Ridge Road in the City of North Royalton in accordance with the United States Constitution, the Ohio Constitution, and R.C. Chapter 163 and 719; and

WHEREAS: This resolution of necessity and intent is necessary and required by ORC 719.04 and Chapter 163 in order to obtain the necessary interest in each property or parcel required to establish the necessary easements. Appropriation of a portion of the above described parcels is necessary in order to fulfill the city's statutory obligations and to protect the traveling public upon that roadway.

NOW, THEREFORE, BE IT RESOLVED BY THE COUNCIL OF THE CITY OF NORTH ROYALTON, COUNTY OF CUYAHOGA AND STATE OF OHIO, THAT:

Section 1. This Council hereby deems it necessary and declares its intention to appropriate a permanent easement in specific portions of Permanent Parcel Numbers 485-25-009, 485-25-011, 485-25-013, and 485-25-015 as more fully described in Exhibit A attached hereto and made a part hereof by reference, for the public purpose of improving, repairing, reconstructing, and preserving that section of roadway and relocating the adjacent stream which is eroding the roadway, all in conjunction with the Northeast Ohio Regional Sewer District, on State Route 3, Ridge Road, North Royalton, Ohio.

Section 2. The Mayor be and hereby is authorized to cause written notice of the passage of this Resolution to be given to the owner(s), person(s) in possession of, or person(s) having an interest in of record or their authorized agent, requiring a notice by law, in the above-described premises and said notice shall be served according to law by certified mail, signature required, and with return of service of notice or signed receipt of certified mail in the manner provided by law. When the owner(s) or his/her authorized agent cannot be located and/or the resident or his/her agent is unknown and cannot be determined by reasonable diligence, notice shall be by publication at least once a week for two (2) successive weeks in a newspaper of general circulation in the county.

Section 3. It is found and determined that all formal actions of this Council concerning and relating to the adoption of this Resolution were adopted in an open meeting of this Council and that all deliberations of this Council and any of its committees that resulted in such formal action were in meetings open to the public in compliance with all legal requirements.


K.E. McCartney & Associates, Inc.
Engineers · Planners · Surveyors

EXHIBIT “A”

Easement Description

City of North Royalton

0.165 Acre

Page 1 of 2

Situated in the City of North Royalton, County of Cuyahoga, State of Ohio, and being a part of Original Royalton Township Section No. 6, being a portion of lands conveyed to Michael D. Hanna & Jacqueline T. Hanna by book 920815, page 3 and being more particularly described as follows:

Commencing for the same at an iron pin in a monument box found at the centerline intersection of C.H. 183, Cady Road-(60' R/W) and Ridge Road-(S.R. 3);

Thence, **South 00 degrees 41 minutes 20 seconds East, 712.42 feet** along the said centerline of Ridge Road to a point in the northeast corner of said Hanna parcel, said point also being in the southeast corner of a parcel conveyed to John F. Turner, II & Donna M. Turner by Instrument No. 200807300875 and being the **Place of Beginning** of the Easement herein described;

Thence, with the following **FOUR** courses:

1. **South 00 degrees 41 minutes 20 seconds East, 45.10 feet** continuing along the said centerline of Ridge Road to a point;
2. **South 89 degrees 14 minutes 52 seconds West, 121.64 feet** traversing said Hanna parcel to a point
3. **North 59 degrees 45 minutes 10 seconds West, 87.98 feet** to a point on the north line of said Hanna parcel, said point also being on the south line of the aforementioned Turner parcel;
4. **North 89 degrees 18 minutes 40 seconds East, 197.10 feet** along the north line of said Hanna parcel and the south line of said Turner parcel to the **Place of Beginning** and containing 0.165 of an acre, more or less, of which 0.047 of an acre is located within street right of way, resulting in a net area of 0.118 of an acre more or less;

This description was prepared and reviewed in August 2019 by Nathaniel B. Ramsey, P.S. S-8396 from existing deed records and field notes from K.E. McCartney and Associates, Inc.

Basis of Bearings: Bearings are relative to the Ohio State Plane Coordinate System NAD83(2011) as derived from GPS observations made in October 2018 and are for the purpose of determining directional variations.

This area contained within Auditor Parcel No. 485-25-011



Nathaniel B. Ramsey, P.S.
For K.E. McCartney & Associates, Inc.

EXHIBIT "B"

SITUATED IN ORIGINAL ROYALTON TOWNSHIP SECTION 6, TOWNSHIP 13, RANGE 5,
CITY OF NORTH ROYALTON, COUNTY OF CUYAHOGA, STATE OF OHIO

BASIS OF BEARINGS

BEARINGS ARE RELATIVE TO THE OHIO STATE
PLANE COORDINATE SYSTEM NAD83(2011) AS
DERIVED FROM GPS OBSERVATIONS MADE IN
OCTOBER 2018 AND ARE FOR THE PURPOSE OF
DETERMINING DIRECTIONAL VARIATIONS.

JOHN F. TURNER, II & DONNA M. TURNER
18900 RIDGE ROAD,
NORTH ROYALTON, OHIO 44133
INSTR. NO. 200807300875
PPN. 485-25-013

MICHAEL D. HANNA & JACQUELINE T. HANNA
18950 RIDGE ROAD
NORTH ROYALTON, OHIO 44133
BOOK 920815, PG. 3
PPN. 485-25-011

EDWARD C. JULIAN
RIDGE ROAD NORTH ROYALTON,
OHIO 44133
INST NO. 201809270468
PPN. 48525016

LINE	BEARING	DISTANCE
L1	S 00°41'14" E	45.10'
L2	S 89°14'52" W	121.64'
L3	N 59°45'10" W	87.98'
L4	N 89°18'40" E	197.10'

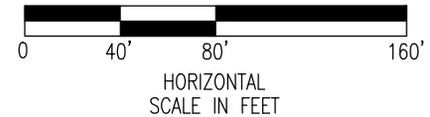
- LEGEND**
-  IRON PIN IN MONUMENT BOX FOUND
 -  SURVEY POINT
 -  EASEMENT AREA - 0.165 AC. TOTAL

CADY ROAD-(60' R/W)(C.H. 183)

S 00°41'20" E 712.42'

RIDGE ROAD-(VARIABLE R/W)(S.R. 3)

THE E. LINE SECTION 6
THE W. LINE SECTION 15



52 N. Diamond Street
Mansfield, OH 44902
T: 419-525-0093

526 E. Broad Street
Elyria, OH 44035
T: 440-323-9608

KEM
K.E. McCARTNEY & ASSOCIATES
ENGINEERS • PLANNERS • SURVEYORS


K.E. McCartney & Associates, Inc.
Engineers · Planners · Surveyors

EXHIBIT “A”

Easement Description

City of North Royalton

0.387 Acre

Page 1 of 2

Situated in the City of North Royalton, County of Cuyahoga, State of Ohio, and being a part of Original Royalton Township Section No. 6, being a portion of lands conveyed to Tom Wojcik and Karin L. Wojcik by Instrument No. 201010010672 and Instrument No. 201309060232 and being more particularly described as follows:

Commencing for the same at an iron pin in a monument box found at the centerline intersection of Cady Road-(C.H. 183)(60' R/W) and Ridge Road-(S.R. 3);

Thence, **South 00 degrees 41 minutes 20 seconds East, 487.46 feet** along said centerline of Ridge Road to the **Place of Beginning** of the Easement herein described;

Thence with the following **SIX** courses:

1. **South 00 degrees 41 minutes 20 seconds East, 124.96 feet** continuing along said centerline of Ridge Road to a point in the southeast corner of said Wojcik lands, said point also being in the northeast corner of a parcel conveyed to John F. Turner, II & Donna M. Turner by Instrument No. 200807300875;
2. **South 89 degrees 18 minutes 40 seconds West, 103.20 feet** along the south line of said Wojcik lands and the north line of said Turner parcel to a point;
3. **North 11 degrees 14 minutes 08 seconds East, 37.88 feet** traversing said Wojcik lands to a point;
4. **South 88 degrees 42 minutes 56 seconds West, 54.14 feet** continuing through said Wojcik lands to a point;
5. **North 00 degrees 28 minutes 04 seconds West, 89.20 feet** continuing through said Wojcik lands to a point;
6. **North 89 degrees 35 minutes 41 seconds East, 149.17 feet** continuing through said Wojcik lands to a point on the aforementioned centerline of State Route 3-(Ridge Road) to the **Place of Beginning** and containing a total of 0.387 of an acre, more or less, of which 0.086 of an acre is located within street right of way, resulting in a net area of

0.301 of an acre more or less;

This description was prepared and reviewed in August 2019 by Nathaniel B. Ramsey, P.S. S-8396 from existing deed records and field notes from K.E. McCartney and Associates, Inc.

Basis of Bearings: Bearings are relative to the Ohio State Plane Coordinate System NAD83(2011) as derived from GPS observations made in October 2018 and are for the purpose of determining directional variations.

This area contained within Auditor Parcel No. 485-25-015-(0.300 ac.) & 485-25-009 (0.087 ac.)





Nathaniel B. Ramsey, P.S.
For K.E. McCartney & Associates, Inc.

EXHIBIT "B"

SITUATED IN ORIGINAL ROYALTON TOWNSHIP SECTION 6, TOWNSHIP 13, RANGE 5,
CITY OF NORTH ROYALTON, COUNTY OF CUYAHOGA, STATE OF OHIO

BASIS OF BEARINGS

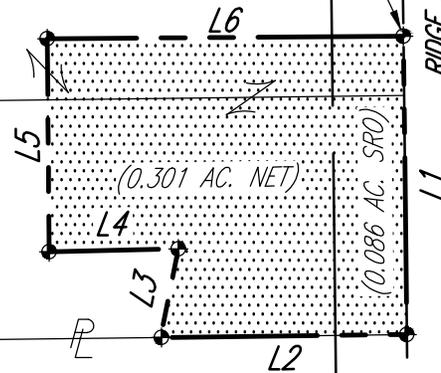
BEARINGS ARE RELATIVE TO THE OHIO STATE
PLANE COORDINATE SYSTEM NAD83(2011) AS
DERIVED FROM GPS OBSERVATIONS MADE IN
OCTOBER 2018 AND ARE FOR THE PURPOSE OF
DETERMINING DIRECTIONAL VARIATIONS.

TOM WOJCIK AND KARIN L. WOJCIK
18850 RIDGE ROAD
NORTH ROYALTON, OHIO 44133
INSTR. NO. 201010010672
PPN. 485-25-009

TOM & KARIN L. WOJCIK
RIDGE ROAD
NORTH ROYALTON, OHIO 44133
INSTR. NO. 201309060232
PPN. 485-25-015

JOHN F. TURNER, II & DONNA M. TURNER
18900 RIDGE ROAD,
NORTH ROYALTON, OHIO 44133
INSTR. NO. 200807300875
PPN. 485-25-013

LINE	BEARING	DISTANCE
L1	S 00°41'20" E	124.96'
L2	S 89°18'40" W	103.20'
L3	N 11°14'08" E	37.88'
L4	S 88°42'56" W	54.14'
L5	N 00°28'04" W	89.20'
L6	N 89°35'41" E	149.17'

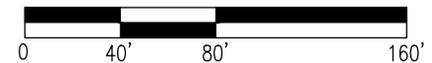


S 00°41'20" E 487.46'

CADY ROAD - (60' R/W) (C.H. 183)

RIDGE ROAD - (VARIABLE R/W) (S.R. 3)

THE E. LINE SECTION 6
THE W. LINE SECTION 15



HORIZONTAL
SCALE IN FEET

- LEGEND**
- IRON PIN IN MONUMENT BOX FOUND
 - SURVEY POINT
 - EASEMENT AREA - 0.387 AC. TOTAL

52 N. Diamond Street
Mansfield, OH 44902
T: 419-525-0093

526 E. Broad Street
Elyria, OH 44035
T: 440-323-9608

KEM
K.E. McCARTNEY & ASSOCIATES
ENGINEERS • PLANNERS • SURVEYORS


K.E. McCartney & Associates, Inc.
Engineers · Planners · Surveyors

EXHIBIT “A”

Easement Description

City of North Royalton

0.345 of an acre

Page 1 of 2

Situated in the City of North Royalton, County of Cuyahoga, State of Ohio, and being a part of Original Royalton Township Section No. 6, being a portion of lands conveyed to John F. Turner II & Donna M. Turner by Instr. No. 200807300875 and being more particularly described as follows:

Commencing for the same at an iron pin in monument box found marking the centerline intersection of Cady Road-(60' R/W)(C.H. 183) and Ridge Road-(S.R. 3);

Thence, **South 00 degrees 41 minutes 20 seconds East, 612.42 feet** along the said centerline of Ridge Road to a point in the northeast corner of a parcel conveyed to John F. Turner, II & Donna M. Turner by Instr. No. 200807300875, and being the **Place of Beginning** of the Easement herein described;

Thence, with the following **FOUR** courses:

1. **South 00 degrees 41 minutes 20 seconds East, 100.00 feet** continuing along the said centerline of Ridge Road to a point in the southeast corner of said Turner parcel, the same being the northeast corner of a parcel conveyed to Michael D. Hanna & Jacqueline T. Hanna by book 920815, page 3;
2. **South 89 degrees 18 minutes 40 seconds West, 197.11 feet** along the south line of said Turner parcel and the north line of said Hanna parcel to a point;
3. **North 42 degrees 30 minutes 35 seconds East, 137.18 feet** traversing said Turner parcel to a point on the north line thereof, said point also being on the south line of a parcel conveyed to Tom and Karin L. Wojcik by Instrument No. 201309060232;
4. **North 89 degrees 18 minutes 40 seconds East, 103.20 feet** along the north line of said Turner parcel and the south line of said Wojcik parcel to the **Place of Beginning**, containing a total of 0.345 of an acre, more or less, of which 0.069 of an acre is located within street right of way, resulting in a net area of 0.276 of an acre more or less;

This description was prepared and reviewed in August 2019 by Nathaniel B. Ramsey, P.S. S-8396 from existing deed records and field notes from K.E. McCartney and Associates, Inc.

Basis of Bearings: Bearings are relative to the Ohio State Plane Coordinate System NAD83(2011) as derived from GPS observations made in October 2018 and are for the purpose of determining directional variations.

This area contained within Auditor Parcel No. 485-25-013





Nathaniel B. Ramsey, P.S.
For K.E. McCartney & Associates, Inc.

EXHIBIT "B"

SITUATED IN ORIGINAL ROYALTON TOWNSHIP SECTION 6, TOWNSHIP 13, RANGE 5,
CITY OF NORTH ROYALTON, COUNTY OF CUYAHOGA, STATE OF OHIO

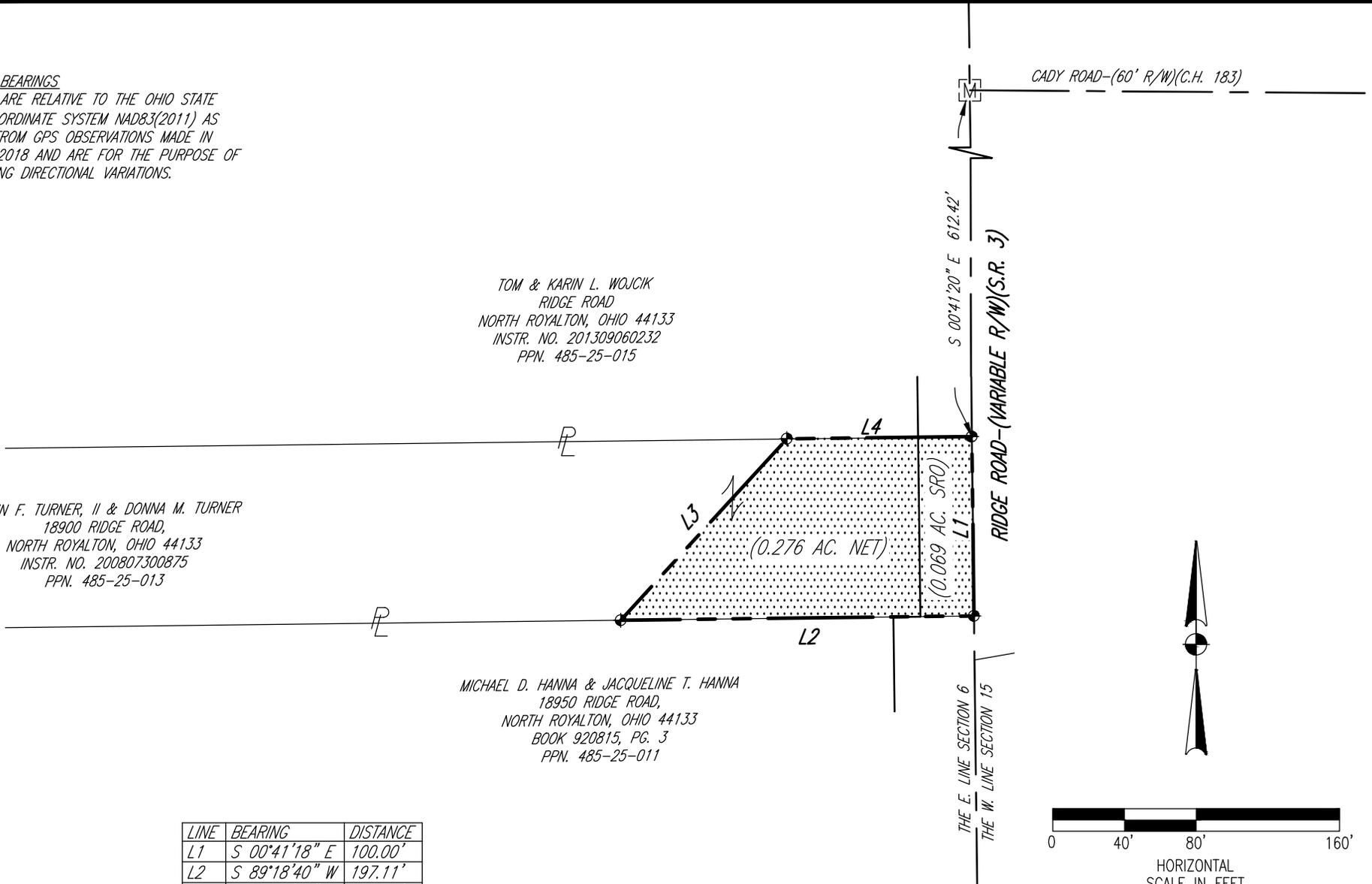
BASIS OF BEARINGS

BEARINGS ARE RELATIVE TO THE OHIO STATE
PLANE COORDINATE SYSTEM NAD83(2011) AS
DERIVED FROM GPS OBSERVATIONS MADE IN
OCTOBER 2018 AND ARE FOR THE PURPOSE OF
DETERMINING DIRECTIONAL VARIATIONS.

TOM & KARIN L. WOJCIK
RIDGE ROAD
NORTH ROYALTON, OHIO 44133
INSTR. NO. 201309060232
PPN. 485-25-015

JOHN F. TURNER, II & DONNA M. TURNER
18900 RIDGE ROAD,
NORTH ROYALTON, OHIO 44133
INSTR. NO. 200807300875
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MICHAEL D. HANNA & JACQUELINE T. HANNA
18950 RIDGE ROAD,
NORTH ROYALTON, OHIO 44133
BOOK 920815, PG. 3
PPN. 485-25-011



LINE	BEARING	DISTANCE
L1	S 00°41'18" E	100.00'
L2	S 89°18'40" W	197.11'
L3	N 42°30'35" E	137.18'
L4	N 89°18'40" E	103.20'

LEGEND

- IRON PIN IN MONUMENT BOX FOUND
- SURVEY POINT
- EASEMENT AREA - 0.345 AC. TOTAL

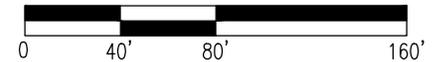
CADY ROAD-(60' R/W)(C.H. 183)

S 00°41'20" E 612.42'

RIDGE ROAD-(VARIABLE R/W)(S.R. 3)

THE E. LINE SECTION 6

THE W. LINE SECTION 15



HORIZONTAL
SCALE IN FEET

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