

# Information for File #2014-02397-DAS

<b>Applicant</b>	<b>City of Rochester</b>
<b>Corps Contact</b>	David Studenski
<b>Address</b>	1114 South Oak Street, La Crescent, MN 55947
<b>E-Mail</b>	david.a.studenski@usace.army.mil
<b>Phone</b>	(651) 290-5902
<b>Primary County</b>	Olmsted
<b>Section</b>	NW ¼ of the NW1/4, Sec. 3
<b>Township</b>	T. 106N.
<b>Range</b>	R. 14W.
<b>Information Complete On</b>	<b>July 31, 2014</b>
<b>Posting Expires On</b>	<b>December 29, 2014</b>
<b>Authorization Type</b>	LOP-05-MN

This application is being reviewed in accordance with the practices for documenting Corps jurisdiction under Sections 9 & 10 of the Rivers and Harbor Act of 1899 and Section 404 of the Clean Water Act identified in Regulatory Guidance Letter 07-01. We have made a preliminary determination that the aquatic resources that would be impacted by the proposed project are regulated by the Corps of Engineers under Section 404 of the Clean Water Act. Our jurisdictional review and final jurisdictional determination could result in modifications to the scope of the project's regulated waterbody/wetland impacts and compensatory mitigation requirements identified above. An approved jurisdictional determination will be made prior to reaching a permit decision, and will be posted on the St. Paul District web page at <http://www.mvp.usace.army.mil/>.

**PROJECT DESCRIPTION AND PURPOSE:** The City of Rochester has proposed the discharge of dredged and fill material into approximately 950 linear feet of a tributary to Cascade Creek and into 0.07 acres of wetland adjacent to the tributary in conjunction with the stabilization of the existing tributary. The project is identified as the Baihly Woods Channel Restoration project. The existing tributary is an intermittent channel that has become deeply incised and is subjected to severe erosion from surface water runoff. At the upper end of the channel, an existing 18-inch storm sewer pipe outlets at the ground surface. A new pipe would be installed to continue the storm sewer pipe approximately 420 feet further down the channel. The pipe would be buried and a grassed swale would be constructed at the ground surface. The pipe would outlet into the channel. The remaining segment of the channel would be graded to a 3.2% slope. The channel bottom would be filled with rock and the edges would receive a surface fabric treatment. A ravine on the east side and one on the west side would also be graded to address erosion. The west ravine would be graded to an average slope of 9.6%. The bottom of the ravine would be filled with rock and the edges would receive a surface fabric treatment. The east ravine would receive a similar treatment.

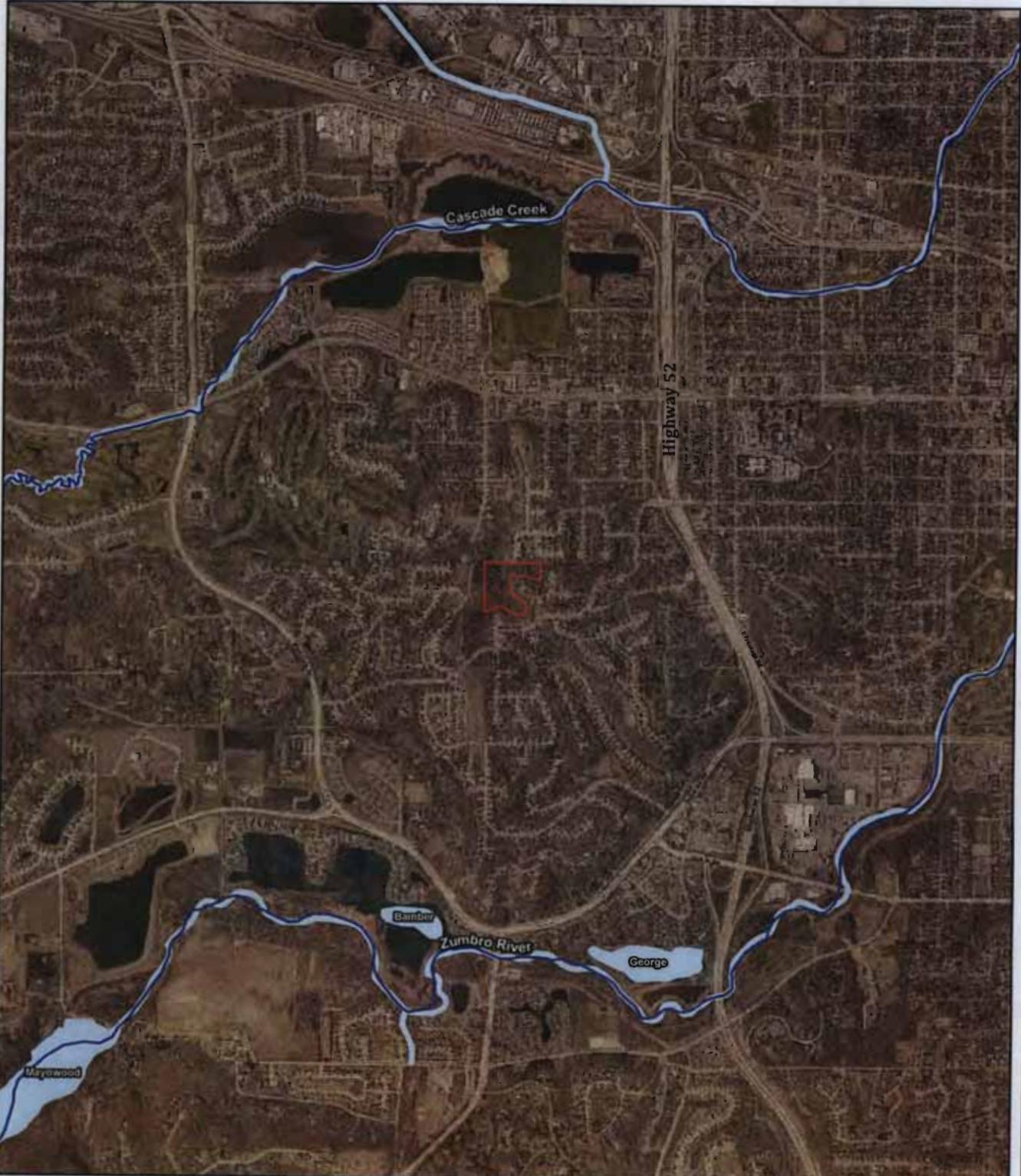
NAME, AREA AND TYPES OF WATERS (INCLUDING WETLANDS) SUBJECT TO LOSS: A total of 0.07 acres of hardwood swamp wetland would be converted to non-wetland as a result of grading activities to stabilize the tributary and the east ravine. The 0.07 acres of wetland impact consists of the following: Wetland #1 – 0.01 acres, Wetland #3 – 0.04 acres, and Wetland #6 – 0.02 acres.

Grading would also occur in 950 linear feet of the existing tributary channel. The existing channel is approximately 10 feet wide. The channel would be reconstructed along a similar alignment with a 3-foot to 6-foot bottom width and 4:1 side slopes.

ALTERNATIVES CONSIDERED: Alternatives that do not include a discharge of dredged or fill material into the channel would not adequately address the severe erosion that is occurring. Alternative alignments are not available because of the adjacent slopes and residential development. If the erosion is not address it is anticipated the erosion would continue to impact the channel and downstream waters and eventually affect hydrology of wetlands adjacent to the channel.

COMPENSATORY MITIGATION: As compensation for the 0.07 acres of unavoidable wetland loss associated with the project, the permittee would create 0.31 acres of hardwood swamp wetland at the Onsite Direct Wetland Replacement Site. The creation would be accomplished by excavating 6 to 8 inches of colluvial soils to create a depressional area with slopes less than 0.5%. Four shallow berms would be constructed to retain hydrology. The area would be seeded to a native wet woodland seed mix.

**Drawings**     See attached.



Path: S:\Work\Map\GIS\Public\Bairly Woods\GIS\Public\Bairly Woods.mxd

**Public Waters Inventory**  
 Bairly Woods Channel Restoration  
 NW 1/4 of SW 1/4 of Section 3  
 & NE1/4 of SE1/4 of Section 4, T106N-R14W  
 Olmsted County, Minnesota

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Map By: MPR

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Map Scale: 1" = 2,000'

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Date: Thursday, June 19, 2014

GIS Mapping  
& Spatial Analysis

Wetland Delineation  
& Permitting

Geologic Hazards

Environmental  
Assessment Worksheet  
& Impact Statements



Environmental Site  
Investigations, Mgt  
& Design

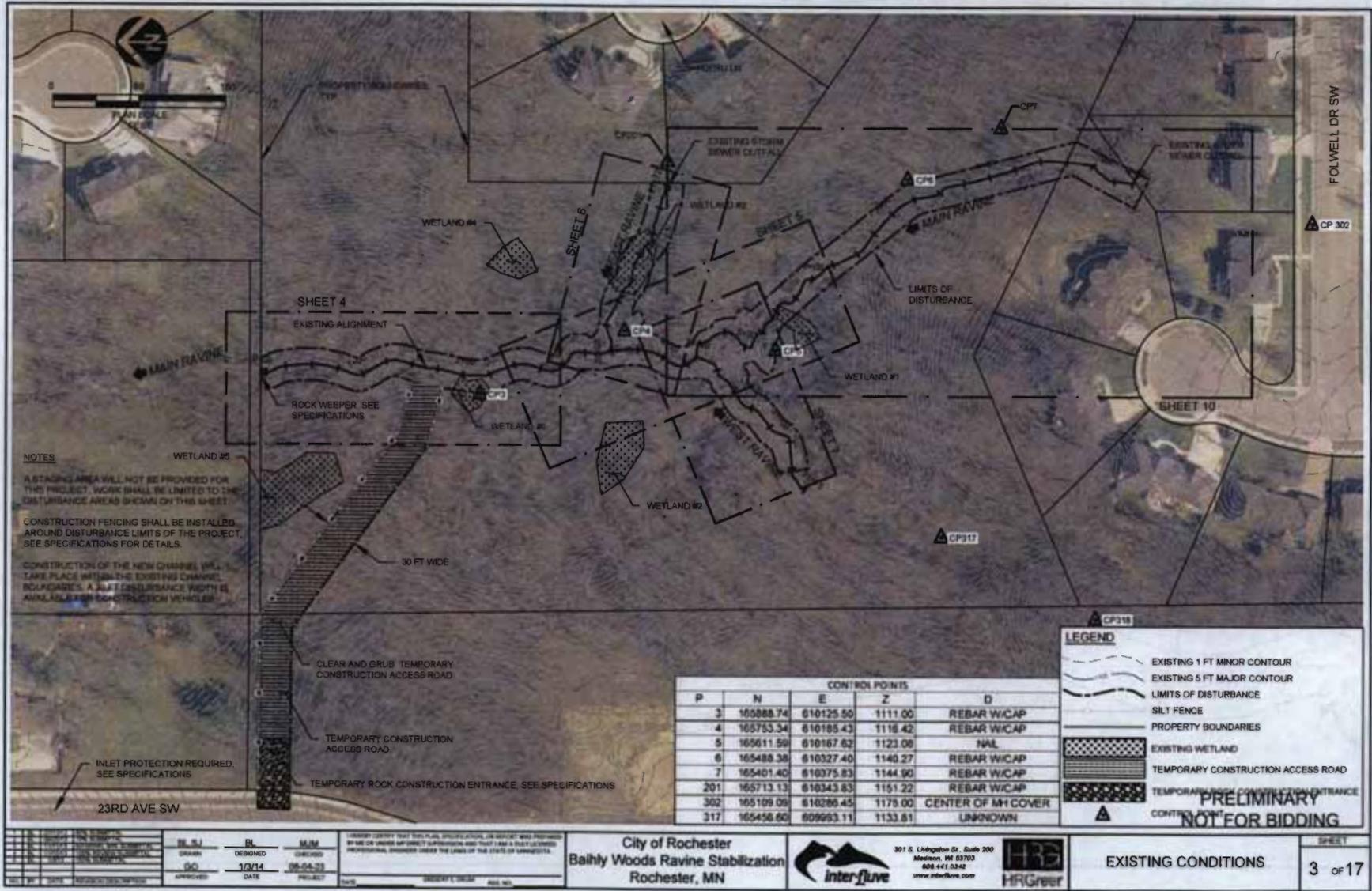
Indoor Air Quality

Landscape  
Architecture

1648 Third Ave. S.E.  
Tel. 507.289.3919  
Fax. 507.289.7333  
email: tsbi@meghiebetts.com

Impaired Waters  
 Public Watercourses  
 Public Water Basins  
 Project Location

0 1,000 2,000 Feet



**NOTES**

1. A STAGING AREA WILL NOT BE PROVIDED FOR THIS PROJECT. WORK SHALL BE LIMITED TO THE DISTURBANCE AREAS SHOWN ON THIS SHEET.

2. CONSTRUCTION FENCING SHALL BE INSTALLED AROUND DISTURBANCE LIMITS OF THE PROJECT. SEE SPECIFICATIONS FOR DETAILS.

3. CONSTRUCTION OF THE NEW CHANNEL WILL TAKE PLACE WITHIN THE EXISTING CHANNEL BOUNDARIES. A 5 FT DISTURBANCE WIDTH IS AVAILABLE FROM CONSTRUCTION VEHICLES.

INLET PROTECTION REQUIRED. SEE SPECIFICATIONS

CONTROL POINTS					
P	N	E	Z	D	
3	160888.74	610125.50	1111.00	REBAR W/CAP	
4	165753.34	610185.43	1118.42	REBAR W/CAP	
5	165611.59	610167.62	1123.08	NAIL	
6	165488.38	610327.40	1140.27	REBAR W/CAP	
7	165401.40	610375.83	1144.90	REBAR W/CAP	
201	165713.13	610343.83	1151.22	REBAR W/CAP	
302	165109.09	610286.45	1175.00	CENTER OF MH COVER	
317	165456.60	609993.11	1133.81	UNKNOWN	

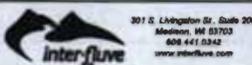
**LEGEND**

- EXISTING 1 FT MINOR CONTOUR
- EXISTING 5 FT MAJOR CONTOUR
- LIMITS OF DISTURBANCE
- SILT FENCE
- PROPERTY BOUNDARIES
- EXISTING WETLAND
- TEMPORARY CONSTRUCTION ACCESS ROAD
- TEMPORARY ROCK CONSTRUCTION ENTRANCE
- PROPERTY BOUNDARY

**PRELIMINARY NOT FOR BIDDING**

DATE	BY	REVISION	DATE	BY	REVISION

City of Rochester  
Baihly Woods Ravine Stabilization  
Rochester, MN

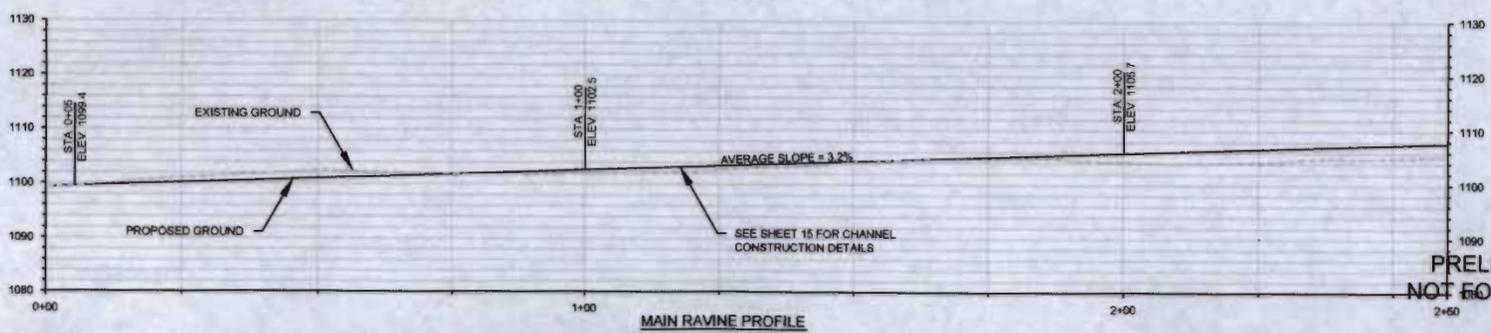
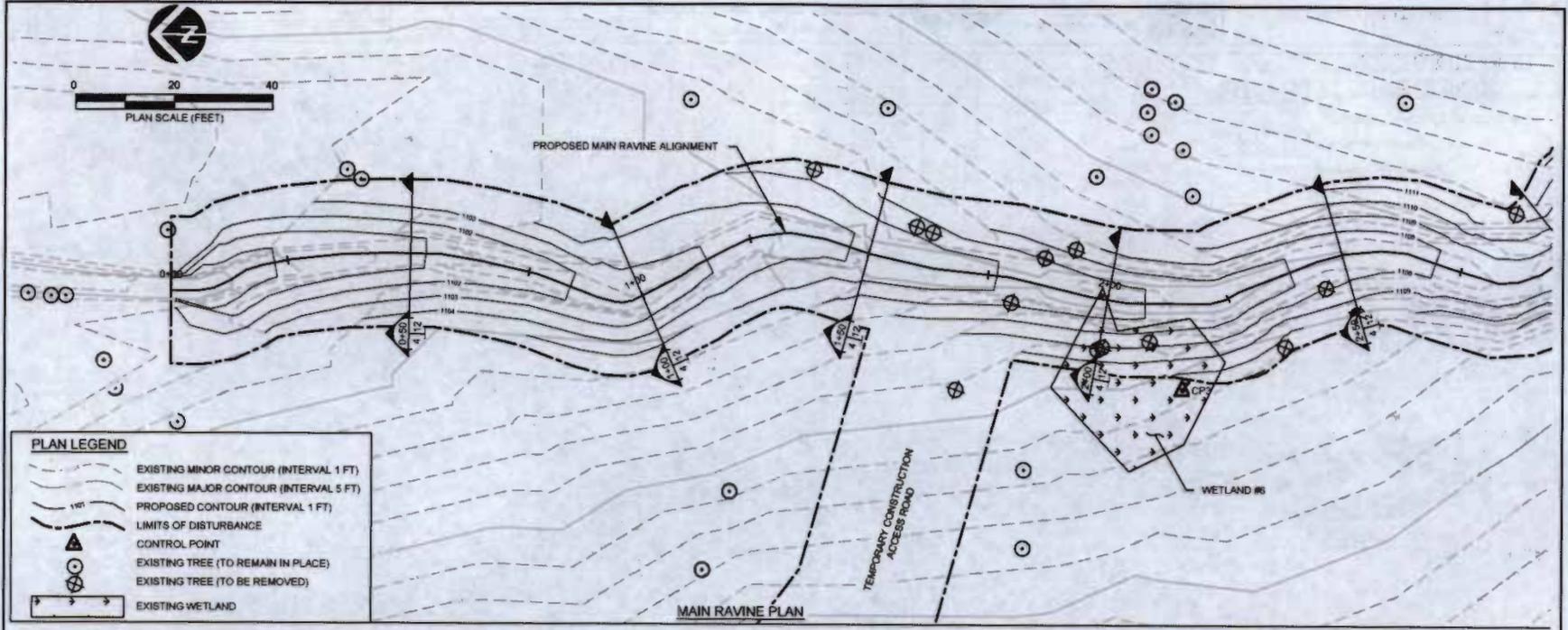


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Mankato, MN 56003  
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EXISTING CONDITIONS

SHEET  
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REVISIONS	DATE	DESCRIPTION	APPROVED	DATE	DESCRIPTION

DESIGNED	PL	MM
DRAWN	GO	1/2/14
CHECKED	MM	08-04-23
DATE	PRJ.#	601

City of Rochester  
Baily Woods Ravine Stabilization  
Rochester, MN

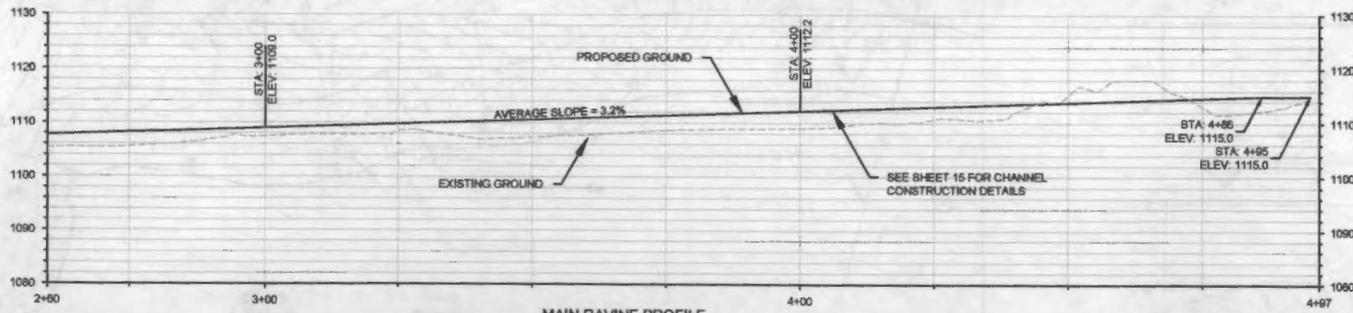
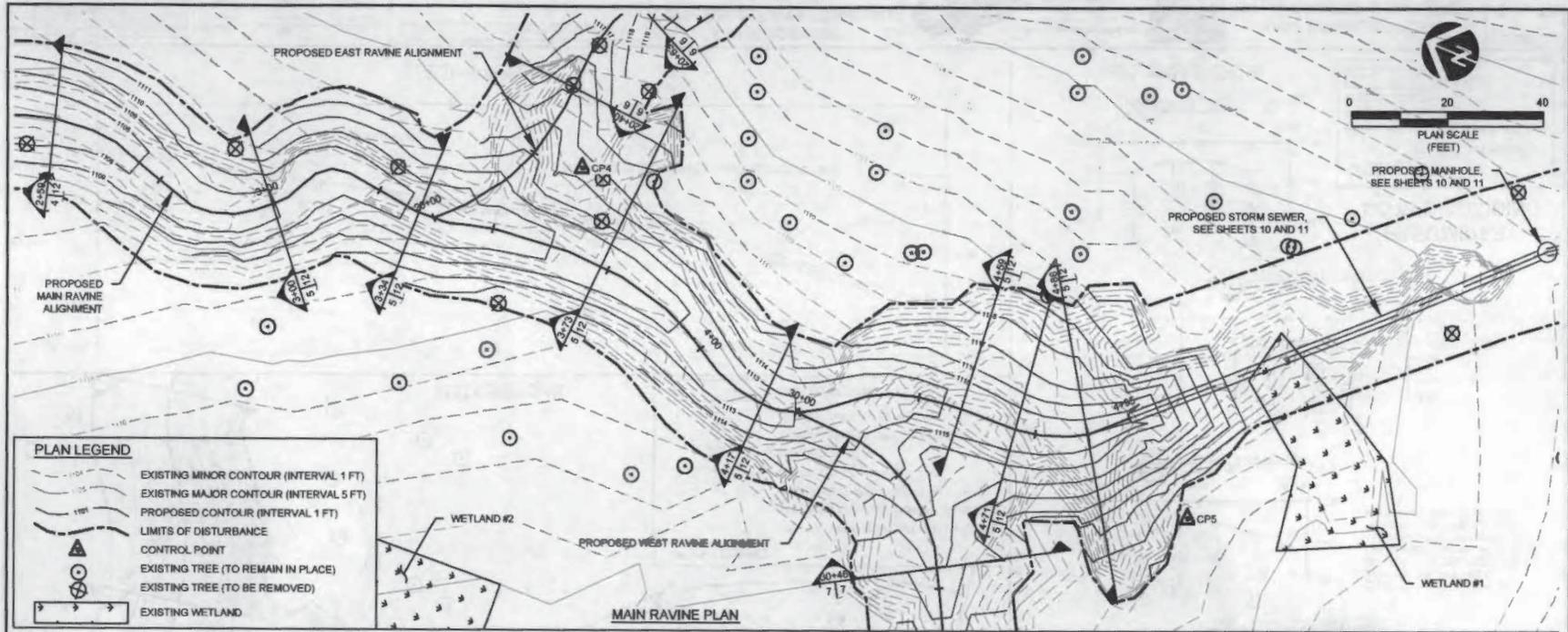


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**MAIN RAVINE GRADING  
PLAN & PROFILE 1**

SHEET  
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PRELIMINARY  
NOT FOR BIDDING

NO.	BY	DATE	REVISION DESCRIPTION
1	BL/SJ	08-04-23	FINAL DESIGN
2	BL/SJ	08-04-23	FINAL DESIGN
3	BL/SJ	08-04-23	FINAL DESIGN
4	BL/SJ	08-04-23	FINAL DESIGN
5	BL/SJ	08-04-23	FINAL DESIGN
6	BL/SJ	08-04-23	FINAL DESIGN
7	BL/SJ	08-04-23	FINAL DESIGN
8	BL/SJ	08-04-23	FINAL DESIGN
9	BL/SJ	08-04-23	FINAL DESIGN
10	BL/SJ	08-04-23	FINAL DESIGN

BL/SJ	BL	MJM	
DRAWN	DESIGNED	CHECKED	
GO	1/3/14	08-04-23	
APPROVED	DATE	PROJECT	DATE
			GREGORY S. ORAM RES. NO.

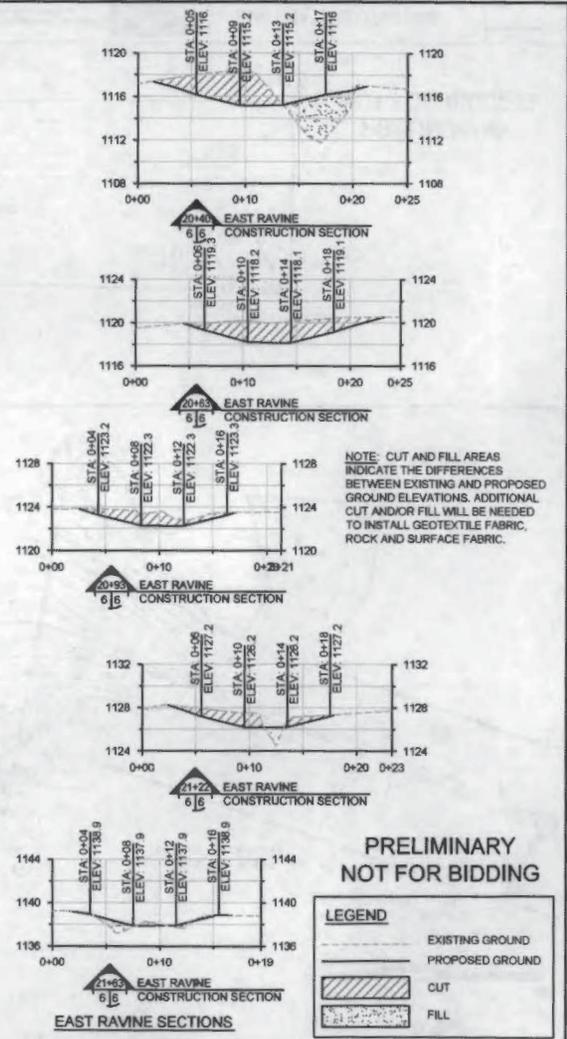
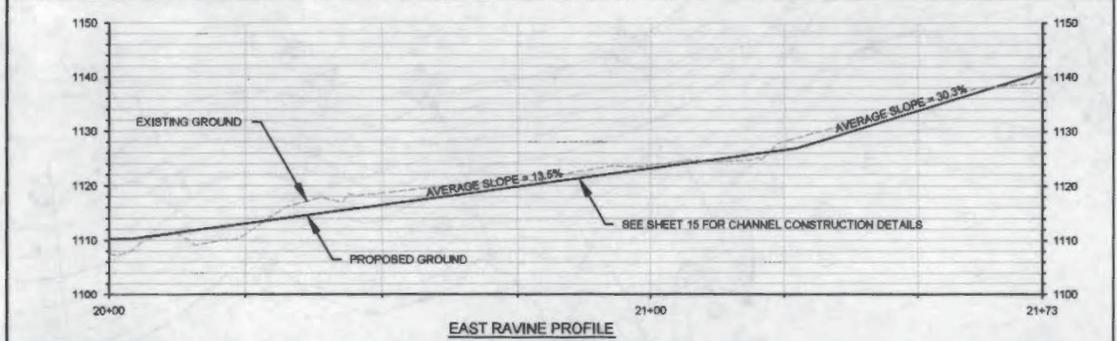
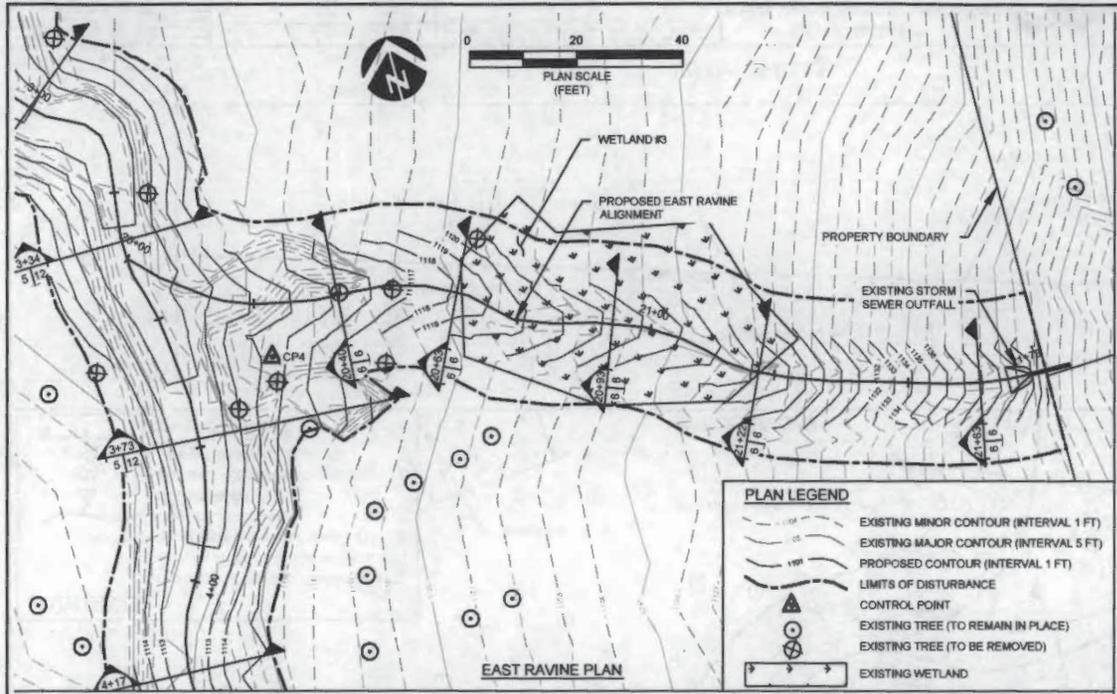
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**City of Rochester**  
**Bahly Woods Ravine Stabilization**  
 Rochester, MN

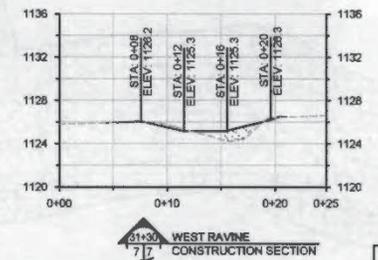
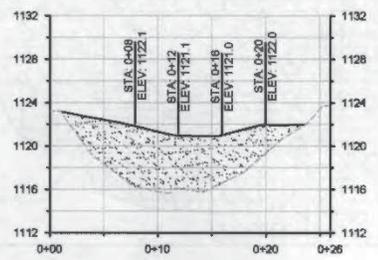
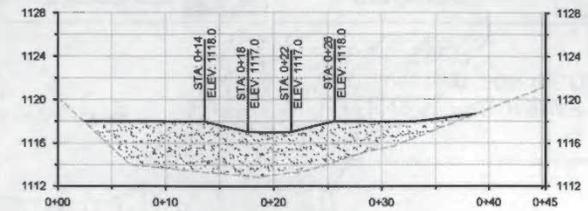
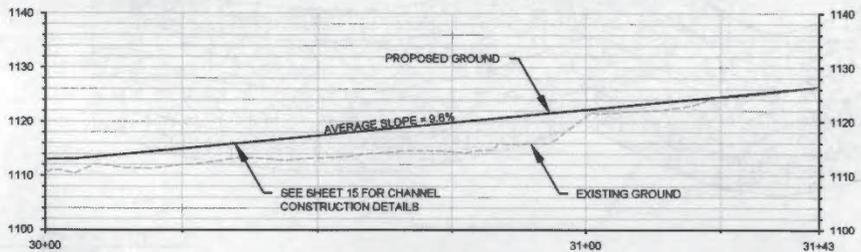
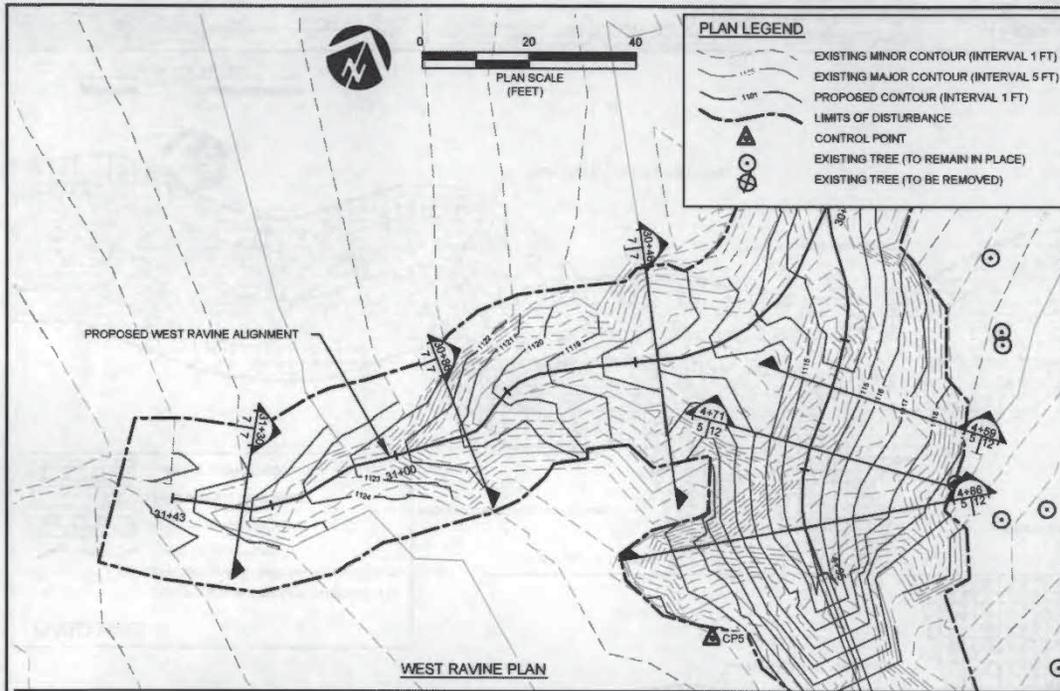
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**MAIN RAVINE GRADING**  
**PLAN & PROFILE 2**

SHEET  
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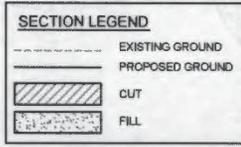


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1	10/13/13	DESIGN INITIAL																																						
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APPROVED	DATE	PROJECT	DATE																																					



NOTE: CUT AND FILL AREAS INDICATE THE DIFFERENCES BETWEEN EXISTING AND PROPOSED GROUND ELEVATIONS. ADDITIONAL CUT AND/OR FILL WILL BE NEEDED TO INSTALL GEOTEXTILE FABRIC, ROCK AND SURFACE FABRIC.

**PRELIMINARY NOT FOR BIDDING**



NO.	DATE	REVISION DESCRIPTION	APPROVED	DATE	PROJECT	DATE	REG. NO.
1	08/03/13	100% SUBMITTAL	BL S.J.	08-04-23	08-04-23		
2	08/05/13	100% SUBMITTAL	BL S.J.	08-04-23	08-04-23		
3	11/14/13	INTERVIEW FOR SUBMITTAL	BL S.J.	08-04-23	08-04-23		
4	11/27/13	100% REVIEW SUBMITTAL	GO	1/5/14	08-04-23		
5	1/28/14	100% SUBMITTAL	GO	1/5/14	08-04-23		

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Gregory S. Grum

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Baihly Woods Ravine Stabilization  
Rochester, MN

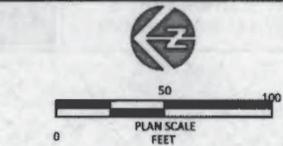
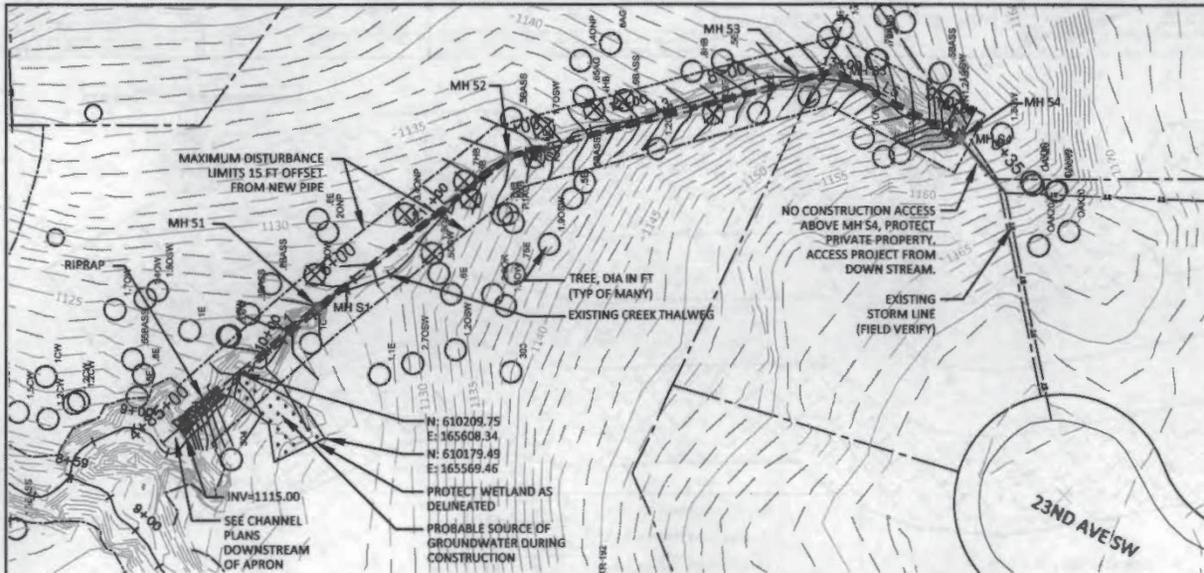
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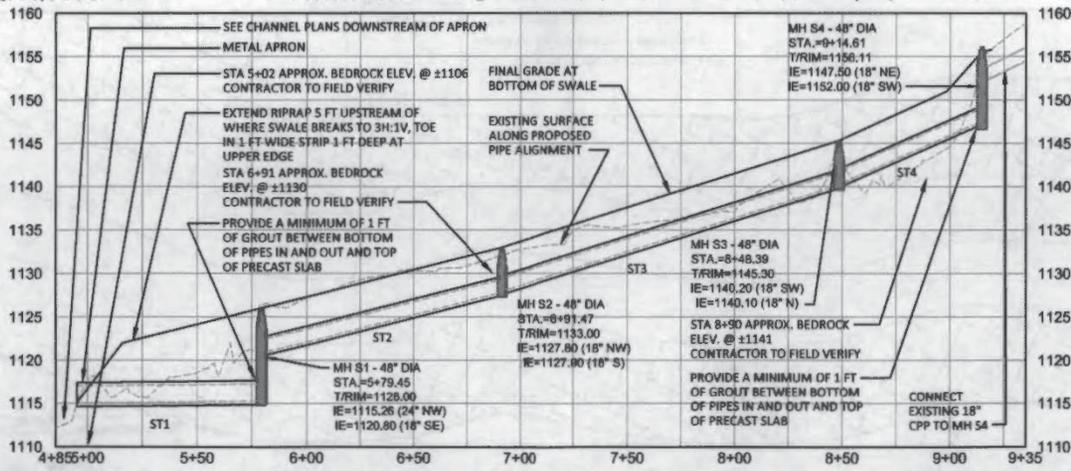
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WEST RAVINE GRADING  
PLAN, PROFILE & SECTIONS

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- NOTES:**
- CONTRACTOR TO GRADE A 2 FT WIDE HORIZONTAL SWALE BOTTOM WITH SIDE SLOPES TO FOLLOW NATURAL CONTOURS OF AREA AND AT SLOPES NOT TO EXCEED 3:1 TO DAYLIGHT AT EXISTING GRADE AT TOP OF BANK.
  - SIX INCHES OF TOPSOIL SHALL BE REMOVED, STOCKPILED, AND REPLACED FROM ALL EXCAVATED AREAS OTHER THAN WHERE RIPRAP IS BEING PLACED.
  - THE FOLLOWING SUB-SECTIONS OF ROCHESTER STANDARD SPECIFICATION T100 APPLY FOR TRENCHES: 207, 209, 308, 309, 313, 314 & 403. SHEETING OR SHORING REQUIRED TO PROTECT TREES SHOWN ON PLANS IS INCIDENTAL. SOILS EXCAVATION AND ALL BEDDING AND BACKFILL IS INCIDENTAL TO PIPE AND MANHOLES.
  - MANHOLES: FOLLOW ROCHESTER STANDARD PLATE 1-04, USE STRUCTURE TYPE 4. FOLLOW ROCHESTER STANDARD PLATE 1-12, CASTING TYPE 2, USE CLOSED LID.
  - METAL APRON TO FOLLOW MN/DOT STANDARD PLATE 3123J.
  - TREES WITH AN "X" ARE DESIGNATED FOR REMOVAL, ALL OTHER TREES ARE TO BE PROTECTED. PRIOR TO REMOVAL OF ANY TREE, FOLLOW CLEARING SPECIFICATIONS FOR PROCEDURES.
  - STORM SEWER PIPE TO FOLLOW ROCHESTER SEWER SPECIFICATION S100.
  - DEWATERING NECESSARY FOR PIPE AND MANHOLE INSTALLATION IS INCIDENTAL TO PROJECT.
  - PLACE GEOTEXTILE (MNDOT 3733 TYPE III) BENEATH RIPRAP.
  - ALL MNDOT REFERENCES ON THIS SHEET REFER TO THE 2005 EDITION.



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NO.	BY	DATE	REVISION DESCRIPTION

JLM	CH	MR
DRAWN	DESIGNED	CHECKED
CH	1/3/14	08-04-23
APPROVED	DATE	PROJECT

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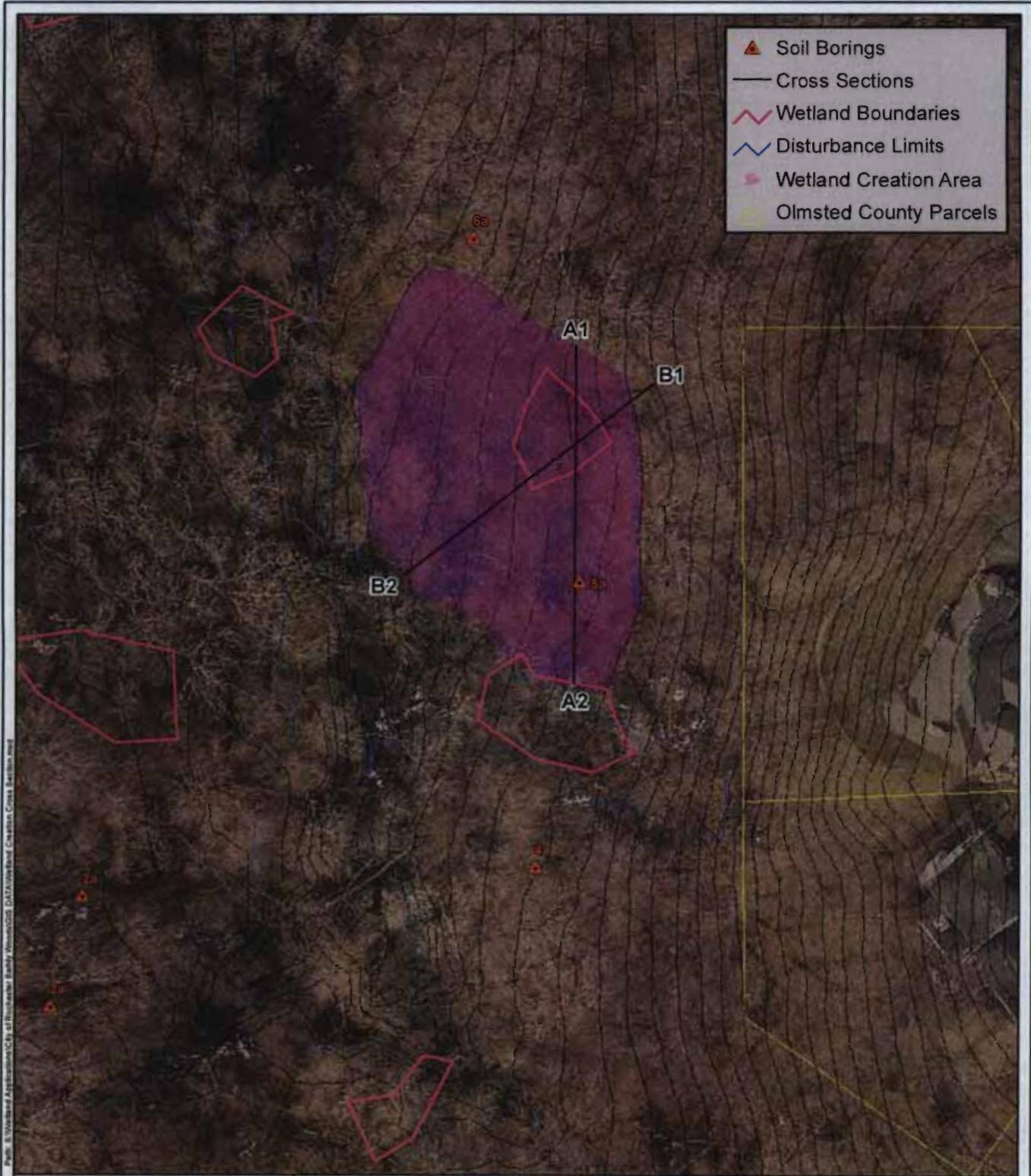
City of Rochester  
Baihly Woods Ravine Stabilization  
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STORM SEWER PLAN & PROFILE

SHEET  
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- Soil Borings
- Cross Sections
- Wetland Boundaries
- Disturbance Limits
- Wetland Creation Area
- Olmsted County Parcels

Photo: © Microsoft Corporation/USGS; Wetland Boundary: MPR; Wetland Creation Area: MPR; Disturbance Limits: MPR; Cross Sections: MPR

### Wetland Replacement Map Cross-Sections

Map By: MPR

Map Scale: 1" = 50'

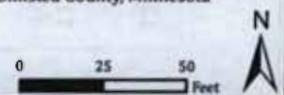
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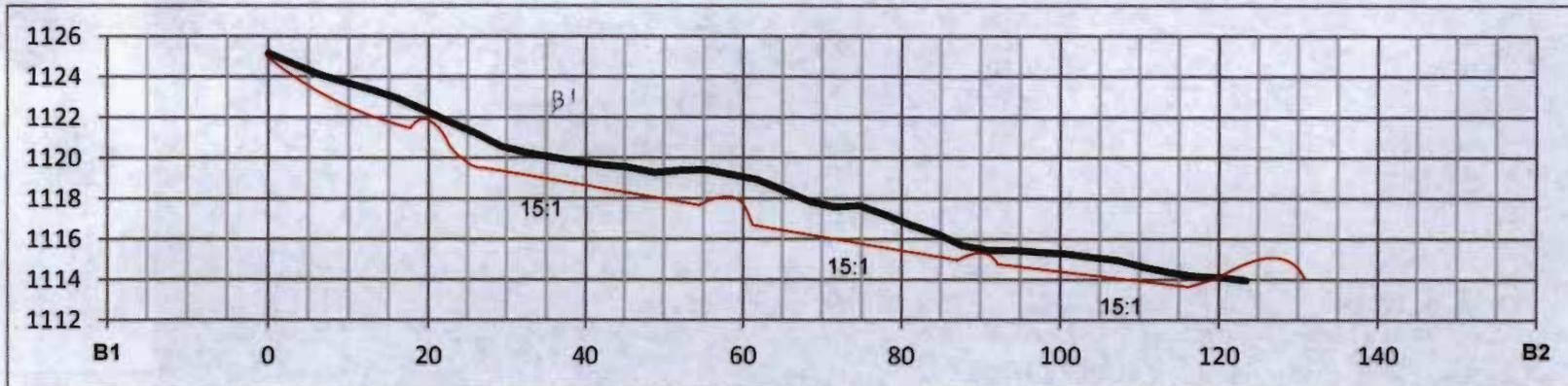
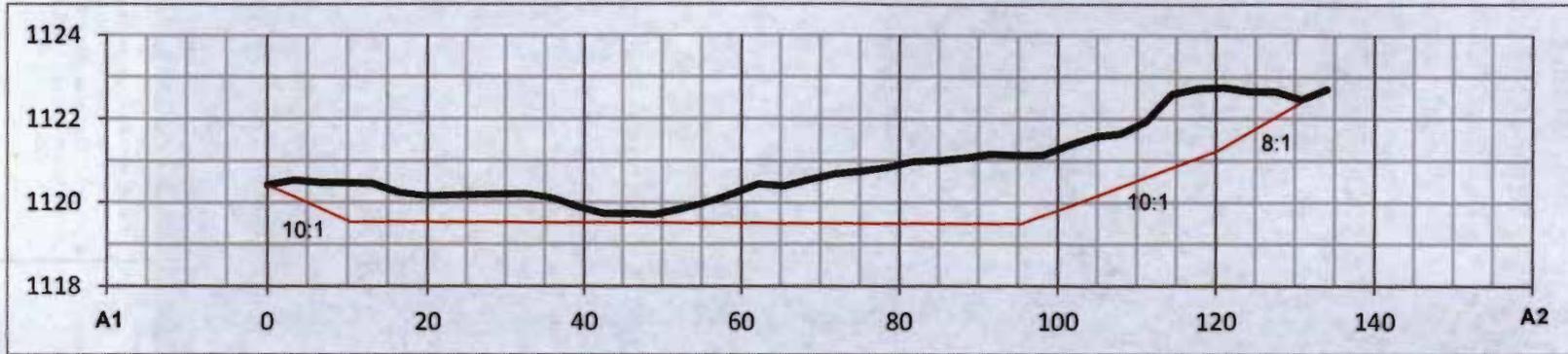
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Environmental Site Investigations, Mgt. & Design  
 Indoor Air Quality  
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 email: mbi@mcglobe.com

**Baily Woods Channel Restoration**  
 NW 1/4 of SW 1/4 of Section 3  
 & NE 1/4 of SE 1/4 of Section 4, T106N-R14W  
 Olmsted County, Minnesota





 = Existing Contours  
 = Proposed Contours

**NOT TO SCALE**  
All units displayed in feet

# Wetland Replacement Cross-Sections



**Baihy Woods Channel Restoration**  
NW 1/4 of SW 1/4 of Section 3  
& NE1/4 of SE1/4 of Section 4, T106N-R14W  
Olmsted County, Minnesota

Map By:

Date: Friday, June 20, 2014