

## **Information for File 2013-03866-MMJ Main Stem Bassett Creek Restoration Project**

**Applicant:** Minneapolis Park and Recreation Board (MPRB)

**Corps Contact:** Melissa Jenny

**Address:** Corps of Engineers, St. Paul District, Regulatory Branch (Attn: 2013-03866-MMJ), 180 East Fifth Street, Suite 700, St. Paul, MN 55101-1678

**E-Mail:** [Melissa.m.jenny@usace.army.mil](mailto:Melissa.m.jenny@usace.army.mil)

**Phone:** 651-290-5363

**Primary County:** Hennepin

**Section, Township, Range:** 17 & 20, T. 29 N., R. 24 W.

**Information Complete On:** October 17, 2013

**Posting Expires On:** October 27, 2011

**Authorization Type:** Section 404 Letter of Permission (LOP-05)

This application is being reviewed in accordance with the practices for documenting Corps jurisdiction under Sections 9 and 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 water body/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:** The proposed Main Stem Bassett Creek Restoration Project would involve bank stabilization and native vegetation restoration activities along selected areas of an approximately 15,000 linear foot portion of Bassett Creek. The project corridor would begin at Golden Valley Road and run south to Irving Avenue, spanning two cities, Golden Valley and Minneapolis. A portion of the project is located in Theodore Wirth Park.

The proposed project would stabilize approximately 5,400 linear feet of stream bank, at nine separate locations. The project would include both soft and hard bank stabilization techniques including: slope shaping, bio-logs, live fascines, vegetated reinforced slope stabilization (VRSS), root wads, rock vanes, live stakes and riprap. The project would also include the installation of fishing piers, and reestablishment of native vegetation at all of the work sites.

Bassett Creek from Medicine Lake to the Mississippi River is listed as an impaired water on the State list for Aquatic Recreation – Fecal Coliforms and for Aquatic Life – Fish Bioassessments and Chloride. The proposed project should not increase any of the impairments on the main stem of the creek, and it should reduce sedimentation and increase the stream's biological capacity to filter and clean water.

Various alternatives were considered, and the proposed project is a combination of measures intended to minimize environmental impacts, increase the aesthetics of the project area, and maximize water quality and other environmental benefits. Other alternatives would have either reduced the restored area or increased the area of hard bank protection (primarily riprap).

The project should avoid or minimize adverse wetland impacts. No wetlands would be drained or inundated by the project. However, the banks of the creek would be reshaped and altered, and some of this work may regrade small portions of the adjacent wetland. The existing creek banks and adjacent areas are dominated by a mix of native and nonnative tree and shrub species, including invasive buckthorn. Some trees and shrubs would be removed, and many native species would be planted along the banks, including various grasses, wildflowers, trees, and shrubs. Within a few years, the woody vegetation should be reestablished.

The shallow, relatively narrow creek (at most points around 10 to 15 feet wide) would not be adversely affected, apart from the disturbances during construction, and the area is expected to have greater habitat value once the plantings establish. The total area of stream bed disturbed during the project would be approximately 0.40 acre.

This bank stabilization project is intended to improve the resource. The project would not result in the loss of wetland functions, and the stream banks would be enhanced with the planting of native vegetation. Compensatory mitigation would not be required for this project.

No threatened or endangered species would be affected by the project.

No tribal trust resources would be affected. The Corps will review information on known cultural resources and/or historic properties within and adjacent to the project area. The Corps will also consider the potential effects of the project on any properties that have yet to be identified. The results of this review and the Corps' determination of effect will be coordinated with the State Historic Preservation Officer independent of this public notice. Any adverse effects on historic properties will be resolved prior to the Corps authorization, or approval, of the work in connection with this project.

**Drawings and Other Information.** See the attached figures labeled as 2013-03866-MMJ, Posting figures 1-3. Also see the public notice for Corps of Engineers file 2009-01655-JJY, for the Bassett Creek Resource Management Plan (RMP), which was issued September 3, 2009. The Main Stem Bassett Creek Restoration Project is one of the projects identified in the RMP and that notice.

**GOVERNING SPECIFICATIONS**

MAIN STEM OF BASSETT CREEK RESTORATION PROJECT SPECIAL PROVISIONS  
 MAIN STEM OF BASSETT CREEK PLANS  
 MINNEAPOLIS PARK & RECREATION BOARD GENERAL CONDITIONS  
 CEAM STANDARD SPECIFICATIONS  
 THE 2005 EDITION OF THE MINNESOTA DEPARTMENT OF TRANSPORTATION  
 "STANDARD SPECIFICATIONS FOR CONSTRUCTION."

ALL TRAFFIC CONTROL DEVICES AND SIGNING SHALL COMFORM TO THE MN MUTCD INCLUDING THE FIELD MANUAL FOR TEMPORARY TRAFFIC CONTROL ZONE LAYOUTS, DATED JANUARY, 2004. ALL TRAFFIC CONTROL DEVICES SHALL HAVE RETROREFLECTIVE SHEETING.

SHEET NO.	DESCRIPTION
1	TITLE SHEET
2	SITE PLAN
3	GENERAL NOTES
4-5	STREAMBANK STABILIZATION DETAILS
6	VEGETATED REINFORCED SOIL SLOPE DETAIL
7-9	SITE RENDERINGS
10-12	CONSTRUCTION NOTES
13-19	CONSTRUCTION PLANS
20-22	STORMWATER POLLUTION PREVENTION PLAN
23-25	EROSION & SEDIMENT CONTROL SITE PLAN
26	EROSION & SEDIMENT CONTROL DETAILS

ALL APPLICABLE FEDERAL, STATE, AND LOCAL LAWS AND ORDINANCES WILL BE COMPLIED WITH IN THE CONSTRUCTION OF THIS PROJECT.



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I HEREBY CERTIFY THAT THIS PLAN WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

ENGR. \_\_\_\_\_ PETER R. WILLENBRING  
 DATE 07/16/2013 LIC. NO. 15998

PLAN REVIEW:

Prepared for:  
**MINNEAPOLIS PARK AND RECREATION BOARD**  
 2117 WEST RIVER ROAD NORTH  
 MINNEAPOLIS, Minnesota 55411  
 (612) 230-6400

**MAIN STEM OF BASSETT CREEK RESTORATION PROJECT**

**MINNEAPOLIS PARK & RECREATION BOARD**

CONSTRUCTION PLAN FOR STREAMBANK STABILIZATION AND HABITAT RESTORATION ALONG BASSETT CREEK

GOLDEN VALLEY ROAD EXTENDING SOUTH APPROXIMATELY 15,000 FEET TO IRVING AVENUE

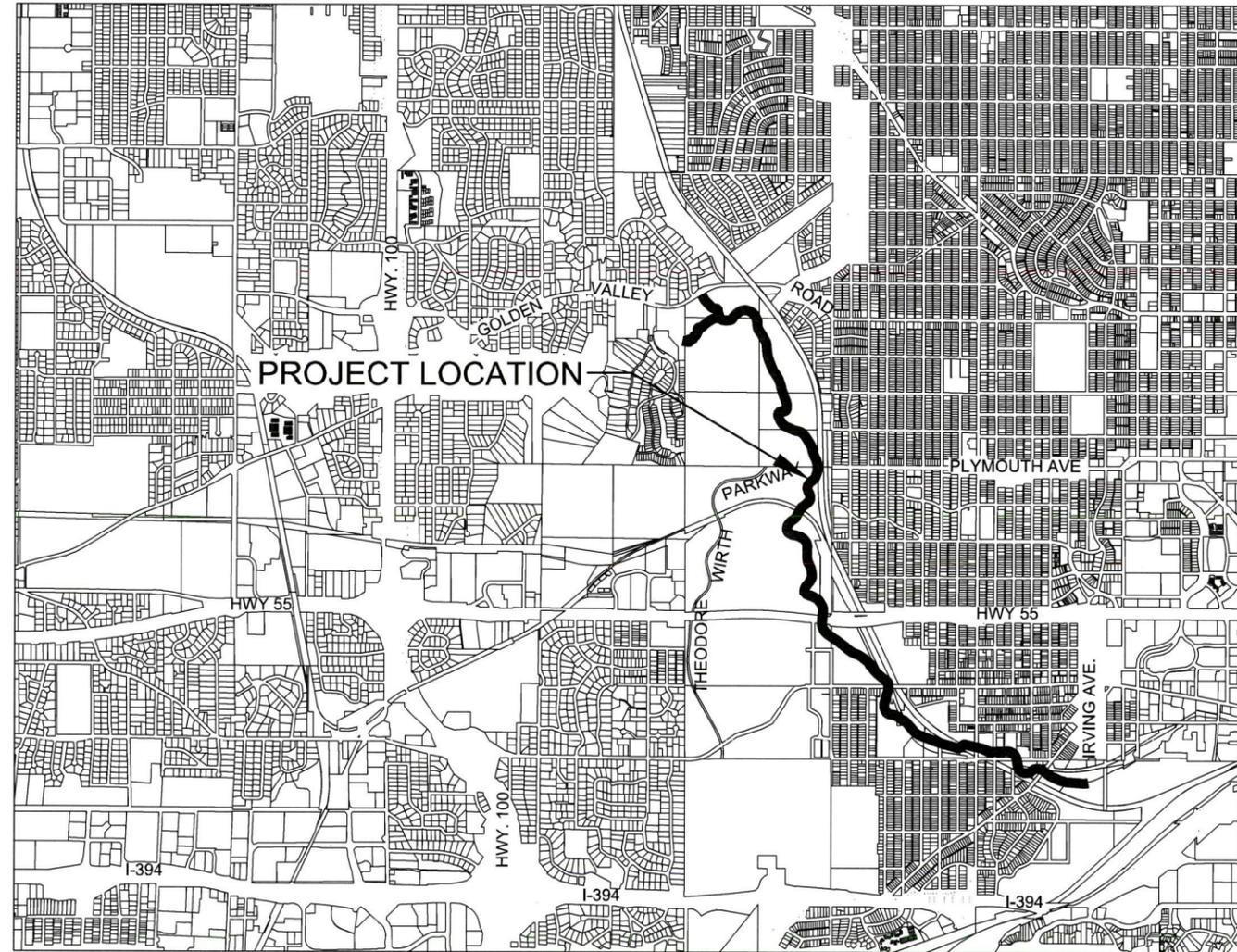
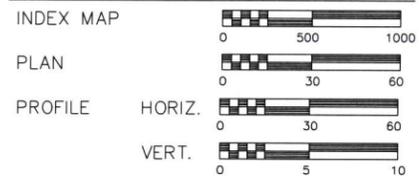
**PLAN SYMBOLS**

- STATE LINE
- COUNTY LINE
- TOWNSHIP OR RANGE LINE
- SECTION LINE
- QUARTER LINE
- SIXTEENTH LINE
- RIGHT-OF-WAY LINE
- SLOPE EASEMENT
- PRESENT RIGHT-OF-WAY
- CONTROL OF ACCESS LINE
- PROPERTY LINES (EXCEPT LAND LINES)
- VACATED PLATTED PROPERTY
- CORPORATE OR CITY LIMITS
- TRUNK HIGHWAY CENTER LINE
- RETAINING WALL
- RAILROAD
- RAILROAD RIGHT-OF-WAY
- RIVER OR CREEK
- DRY RUN
- DRAINAGE DITCH
- DRAIN TILE
- CULVERT
- DROP INLET
- GUARD RAIL
- BARBED WIRE FENCE
- WOVEN WIRE FENCE
- CHAIN LINK FENCE
- RAILROAD SNOW FENCE
- STONE WALL OR FENCE
- HEDGE
- RAILROAD CROSSING SIGN
- RAILROAD CROSSING BELL
- ELECTRIC WARNING SIGN
- CROSSING GATE
- MEANDER CORNER
- SPRINGS
- MARSH
- TIMBER
- ORCHARD
- BRUSH
- NURSERY
- CATCH BASIN
- FIRE HYDRANT
- CATTLE GUARD
- OVERPASS (HIGHWAY OVER)
- UNDERPASS (HIGHWAY UNDER)
- BRIDGE
- BUILDING (ONE STORY FRAME)
- F - FRAME C - CONCRETE
- S - STONE T - TILE
- B - BRICK ST - STUCCO
- IRON ROD OR PIPE
- MONUMENT (STONE, CONCRETE, OR METAL)
- WOODEN HUB
- GRAVEL PIT
- SAND PIT
- BORROW PIT
- ROCK QUARRY

**UTILITY SYMBOLS**

- POWER POLE LINE
- TELEPHONE OR TELEGRAPH POLE LINE
- JOINT TELEPHONE AND POWER ON POWER POLE
- ON TELEPHONE POLES
- ANCHOR
- STREET LIGHT
- PEDESTAL (TELEPHONE CABLE TERMINAL)
- GAS MAIN
- WATER MAIN
- CONDUIT
- TELEPHONE CABLE IN CONDUIT
- ELECTRIC CABLE IN CONDUIT
- TELEPHONE MANHOLE
- ELECTRIC MANHOLE
- BURIED TELEPHONE CABLE
- BURIED ELECTRIC CABLE
- AERIAL TELEPHONE CABLE
- SEWER (SANITARY OR STORM)
- SEWER MANHOLE

**SCALES**



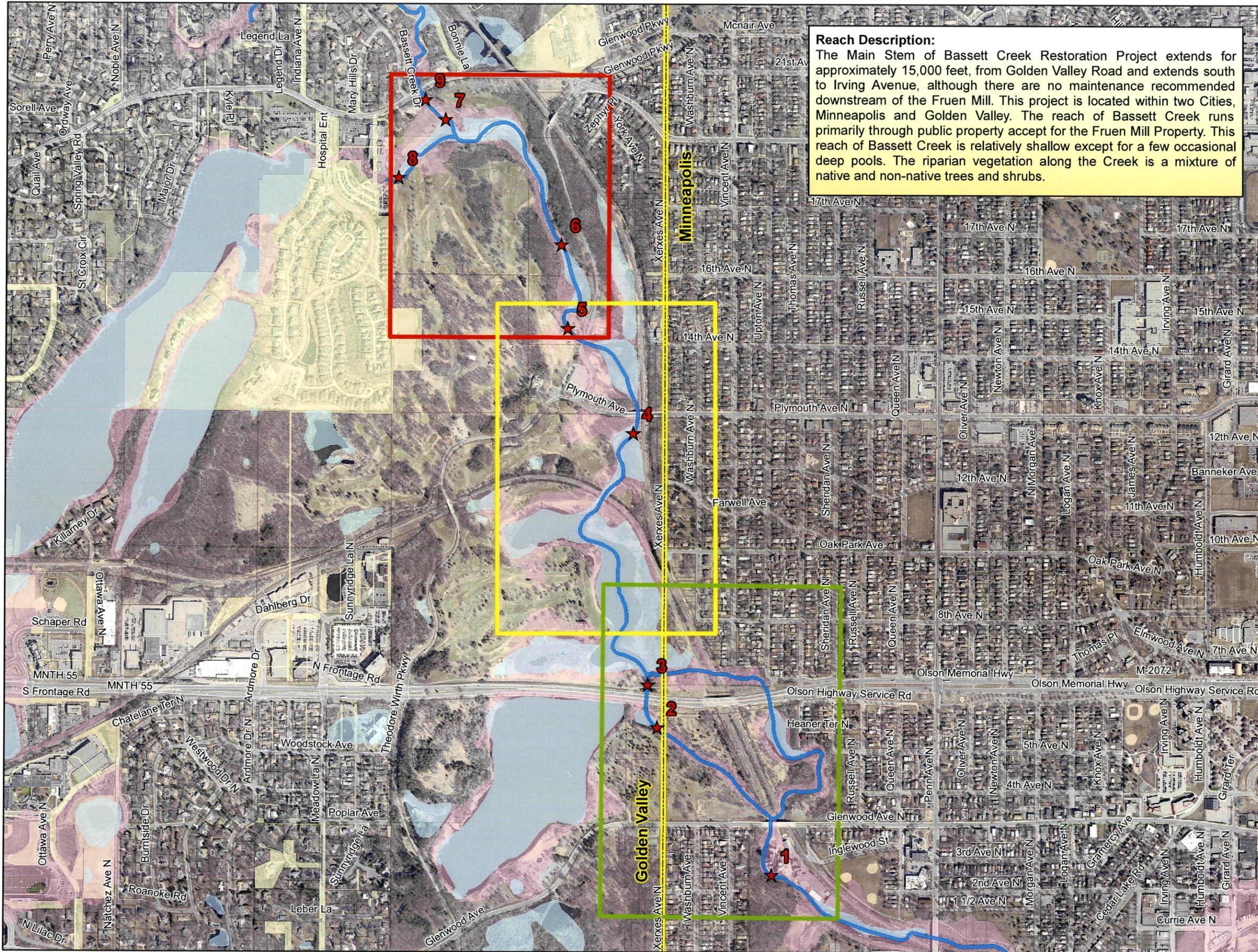
THE INFORMATION SHOWN ON THESE DRAWINGS CONCERNING TYPE AND LOCATION OF PRIVATE UTILITIES IS NOT GUARANTEED TO BE ACCURATE OR ALL-INCLUSIVE. THE CONTRACTOR IS TO DETERMINE THE TYPE AND LOCATION OF PRIVATE UTILITIES AS MAY BE NECESSARY TO AVOID DAMAGE THERETO. SUBSURFACE UTILITY INFORMATION IN THIS PLAN IS UTILITY QUALITY LEVEL D. THIS QUALITY LEVEL WAS DETERMINED ACCORDING TO THE GUIDELINES OF CI/ASCE 38-2, ENTITLED "STANDARD GUIDELINES FOR THE COLLECTION AND DEDICATION OF EXISTING SUBSURFACE UTILITY DATA."

**EXCAVATION NOTICE SYSTEM**  
 A CALL TO GOPHER STATE ONE (651-454-0002) IS REQUIRED A MINIMUM OF 48 HOURS PRIOR TO PERFORMING ANY EXCAVATION.



WSB PROJECT 1165-82

SHEET NO. 1 OF 26 SHEETS



**Reach Description:**  
 The Main Stem of Bassett Creek Restoration Project extends for approximately 15,000 feet, from Golden Valley Road and extends south to Irving Avenue, although there are no maintenance recommended downstream of the Fruen Mill. This project is located within two Cities, Minneapolis and Golden Valley. The reach of Bassett Creek runs primarily through public property except for the Fruen Mill Property. This reach of Bassett Creek is relatively shallow except for a few occasional deep pools. The riparian vegetation along the Creek is a mixture of native and non-native trees and shrubs.



# Main Stem of Bassett Creek Restoration Project

## Site Plan

- Legend**
- ★ BCWMC Maintenance Locations
  - Main Stem of Bassett Creek
  - A
  - B
  - C
  - City Boundary
  - Property Boundaries
  - Water Bodies
  - 100 Year Flood Plain
  - Easements



0 250 500 1,000 Feet



I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA

ENGINEER  
 DATE: 07/16/2013 LIC. NO.: 15998

SHEET 2 OF 26 SHEETS

