

Information for File #2015-01887-MHK

Applicant: City of Madison – Engineering Division

Corps Contact: Marie Kopka

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Brookfield, Wisconsin 53005

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Phone: (651) 290-5733

Primary County: Dane

Section: 23

Township: 7N

Range: 8E

Information Complete On: December 22, 2015

Posting Expires On: January 21, 2016

Authorization Type: Section 404 Letter of Permission

This application is being reviewed in accordance with current practices for documenting Corps jurisdiction under Section(s) 9 & 10 of the Rivers and Harbor Act of 1899 and Section 404 of the Clean Water Act.

We have made a preliminary determination that the aquatic resources that would be impacted by the proposed project are subject to Corps of Engineers jurisdiction under Section(s) 9 & 10 of the Rivers and Harbors Act of 1899 and/or Section 404 of the Clean Water Act. If an approved jurisdictional determination is completed as part of the review process for this application, a copy will be posted on the St. Paul District web page at the following link:
<http://www.mvp.usace.army.mil/Missions/Regulatory.aspx>.

Project DESCRIPTION AND PURPOSE: The applicant is applying for a Department of the Army permit to discharge dredged and fill material into waters of the U.S. for the construction of a 10-foot bicycle path and associated retaining wall and riprap, realignment of a 608 linear foot portion of Sauk Creek, improvement of storm water facilities, and the construction of a maintainable greenway (parcel of land decided to storm water conveyance). Two fords are proposed to allow access to mow the greenway corridor. Two storm sewer pipes under Tree Lane would be re-routed due to an inadequately sized pipe. An existing storm sewer outfall apron would be modified. In addition, a temporary clear stone berm would be constructed at the downstream end of the greenway and a temporary access road would be constructed to the north of the proposed bicycle path.

NAME, AREA AND TYPES OF WATERS (INCLUDING WETLANDS) SUBJECT TO LOSS: The proposed project would result in the discharge of dredged and fill material within 0.22 acre of Sauk Creek and the discharge of dredged and fill material in 0.59 acre of adjacent wetlands.

Approximately 680 cubic yards of accumulated sediment and dredged material would be removed, the creek bed would be re-graded, and then approximately 608 linear feet of the creek would be realigned. There would be a permanent loss of 0.09 acre of creek due to 180 square feet being filled for the construction of the bicycle path and the remaining 0.09 acre would be filled and converted to a maintained fresh wet meadow wetland. The proposed re-aligned stream would measure approximately 600 linear feet with an average 16 feet wide top of bank. There would be a net gain of 0.04 acre of stream. In addition, fill material would be placed on the bed of 0.06 acre of Sauk Creek for the construction of two fords, re-routing of storm sewer pipes, and improvements to an existing outfall and riprap apron.

In addition, the project would result in the grading and clearing of 0.59 acre of floodplain forest wetland adjacent to Sauk Creek in order to create a greenway corridor that the City could mow and maintain. This wetland is dominated by silver maple, boxelder maple, and cottonwood. Of the 0.59 acre area, there would be a permanent loss of 0.12 acres. Specifically, 0.10 acre would be converted to a portion of re-aligned stream and 0.02 acre would be filled for the construction of the bicycle path, two fords and storm sewer outfall improvements. The remaining 0.29 acre wetland (converted to maintained fresh wet meadow) and the newly constructed 0.07 acre wetland area would be seeded with a native seed mix dominated by hydrophytic species.

ALTERNATIVES CONSIDERED: The no-build alternative would avoid impacts to aquatic resources but was not considered by the applicant because it failed to address the purpose of the project.

The applicant stated that other locations for the bicycle path were considered, such as the north side of the greenway or north side of Mineral Point Road, but these alternatives were dismissed because of additional wetland impacts and loss of private property. The City also stated that the 10-foot bicycle path is the minimum width necessary for longevity and maintenance. To minimize impacts to aquatic resources, a 475-foot long retaining wall would be constructed on the bicycle path shoulder and the path was located as far away from wetlands as possible without infringing on private property. In addition, the applicant stated that both ford crossings are needed for greenway maintenance due to maneuverability of equipment and channel geometry. The fords have been reduced from 20 feet to 16 feet wide.

Typical erosion control measures would be implemented. A 2-foot high clear stone berm would be constructed at the downstream end of the greenway. Inlet protection would be installed and erodible materials would be stockpiled and contained with silt fence or silt sock.

COMPENSATORY MITIGATION: no compensatory mitigation has been proposed by the applicant at this time.

Additional information is available upon request.

Drawings See attached exhibits labeled MVP-2015-01887-MHK Pages 1 through 8.



Legend

-  Quarter-Quarter
-  Rivers and Streams
-  Open Water
-  Project area

1: 15,160



NAD_1983_HARN_Wisconsin_TM
© Latitude Geographics Group Ltd.

DISCLAIMER: The information shown on these maps has been obtained from various sources, and are of varying age, reliability and resolution. These maps are not intended to be used for navigation, nor are these maps an authoritative source of information about legal land ownership or public access. No warranty, expressed or implied, is made regarding accuracy, applicability for a particular use, completeness, or legality of the information depicted on this map. For more information, see the DNR Legal Notices web page: <http://dnr.wi.gov/org/legal/>

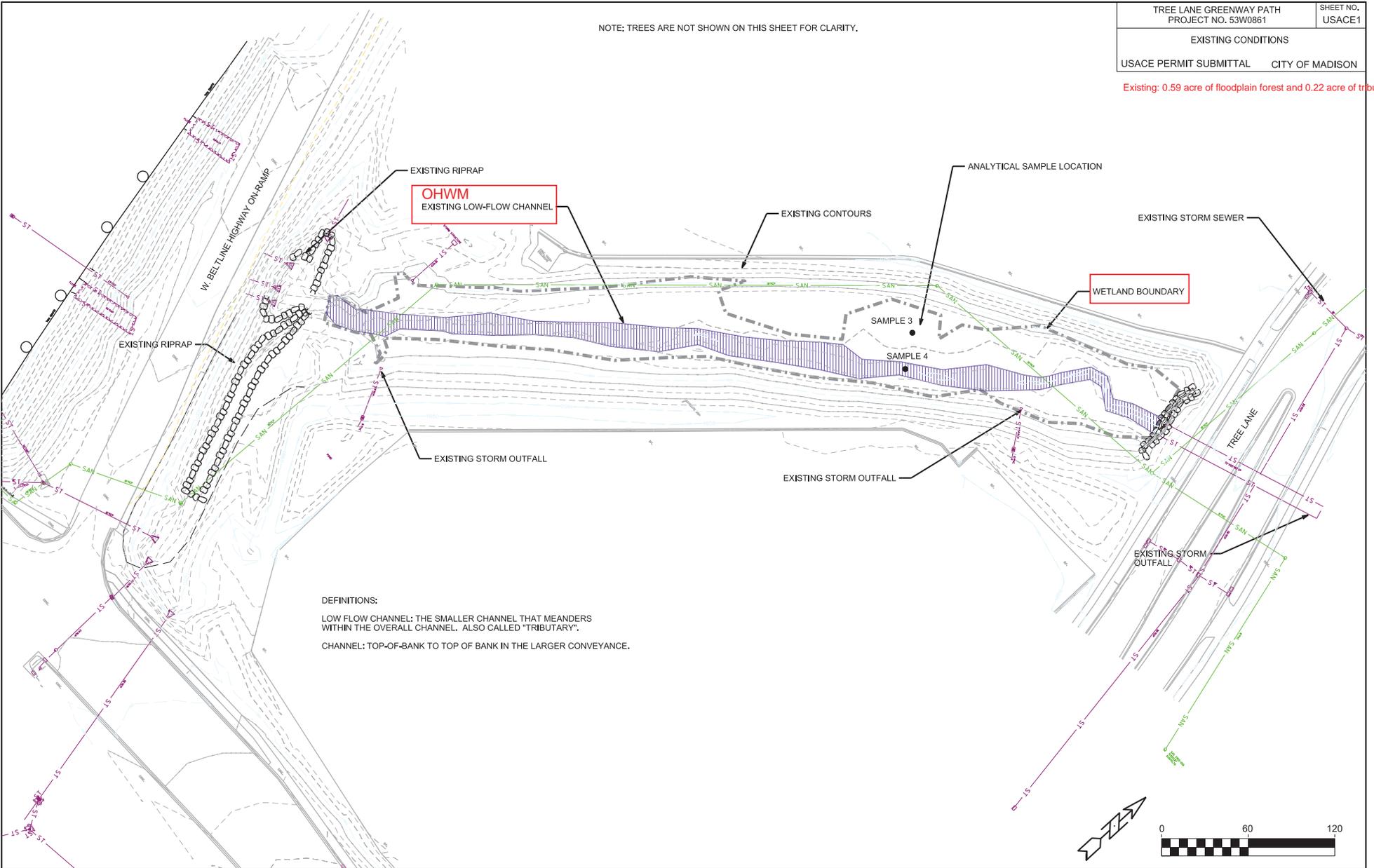
Notes

T7N R8E Sec. 23
Lat 43.06196
Long -89.52108

TREE LANE GREENWAY PATH PROJECT NO. 53W0861	SHEET NO. USACE1
EXISTING CONDITIONS	
USACE PERMIT SUBMITTAL	CITY OF MADISON

Existing: 0.59 acre of floodplain forest and 0.22 acre of tributary

NOTE: TREES ARE NOT SHOWN ON THIS SHEET FOR CLARITY.



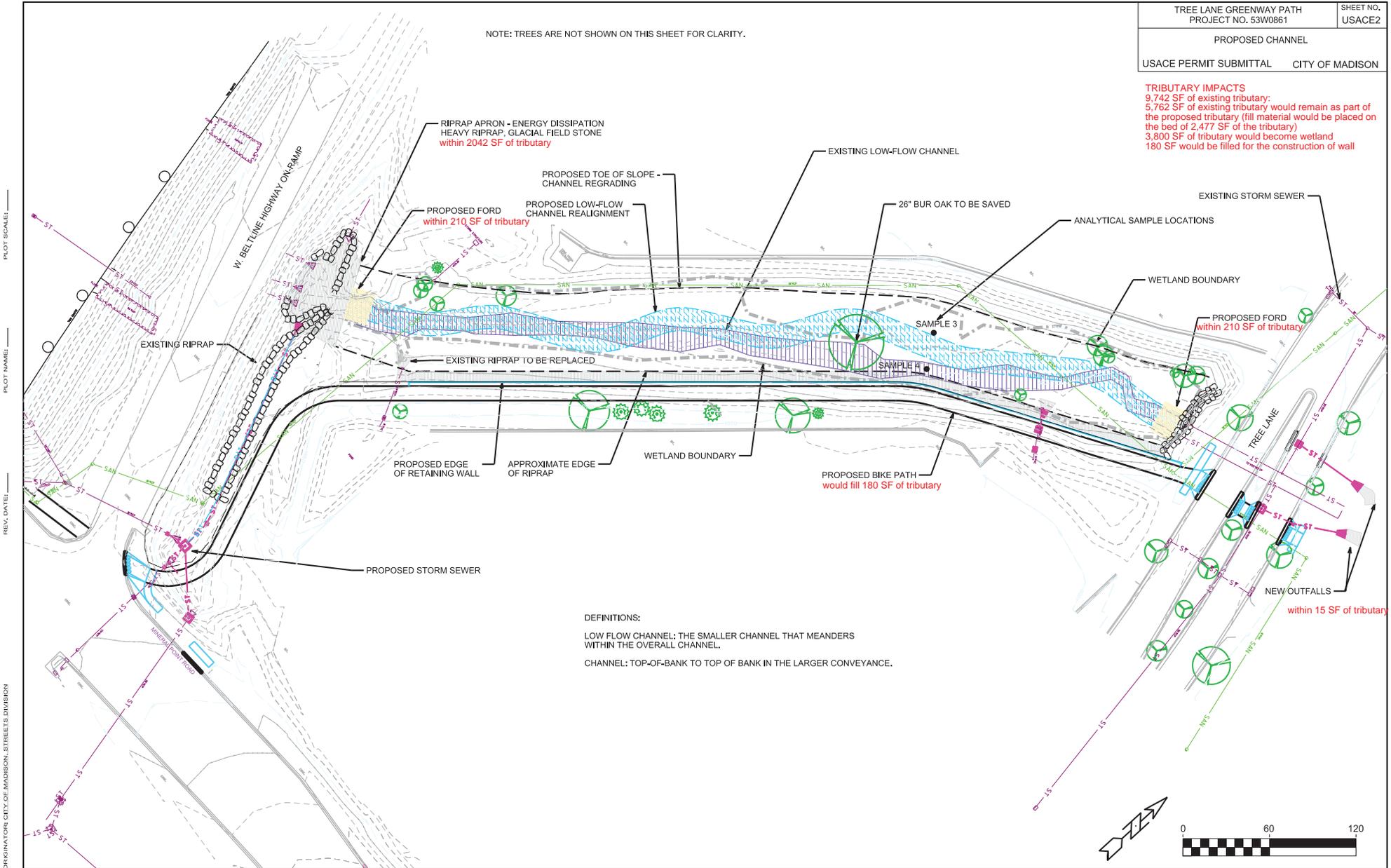
DEFINITIONS:
 LOW FLOW CHANNEL: THE SMALLER CHANNEL THAT MEANDERS WITHIN THE OVERALL CHANNEL. ALSO CALLED "TRIBUTARY".
 CHANNEL: TOP-OF-BANK TO TOP OF BANK IN THE LARGER CONVEYANCE.

PLOT SCALE: _____
 PLOT NAME: _____
 REV. DATE: _____
 ORIGINATOR: CITY OF MADISON, STREETS DIVISION

TREE LANE GREENWAY PATH PROJECT NO. 53W0861	SHEET NO. USACE2
PROPOSED CHANNEL	
USACE PERMIT SUBMITTAL	CITY OF MADISON

NOTE: TREES ARE NOT SHOWN ON THIS SHEET FOR CLARITY.

TRIBUTARY IMPACTS
 9,742 SF of existing tributary:
 5,762 SF of existing tributary would remain as part of the proposed tributary (fill material would be placed on the bed of 2,477 SF of the tributary)
 3,800 SF of tributary would become wetland
 180 SF would be filled for the construction of wall



DEFINITIONS:
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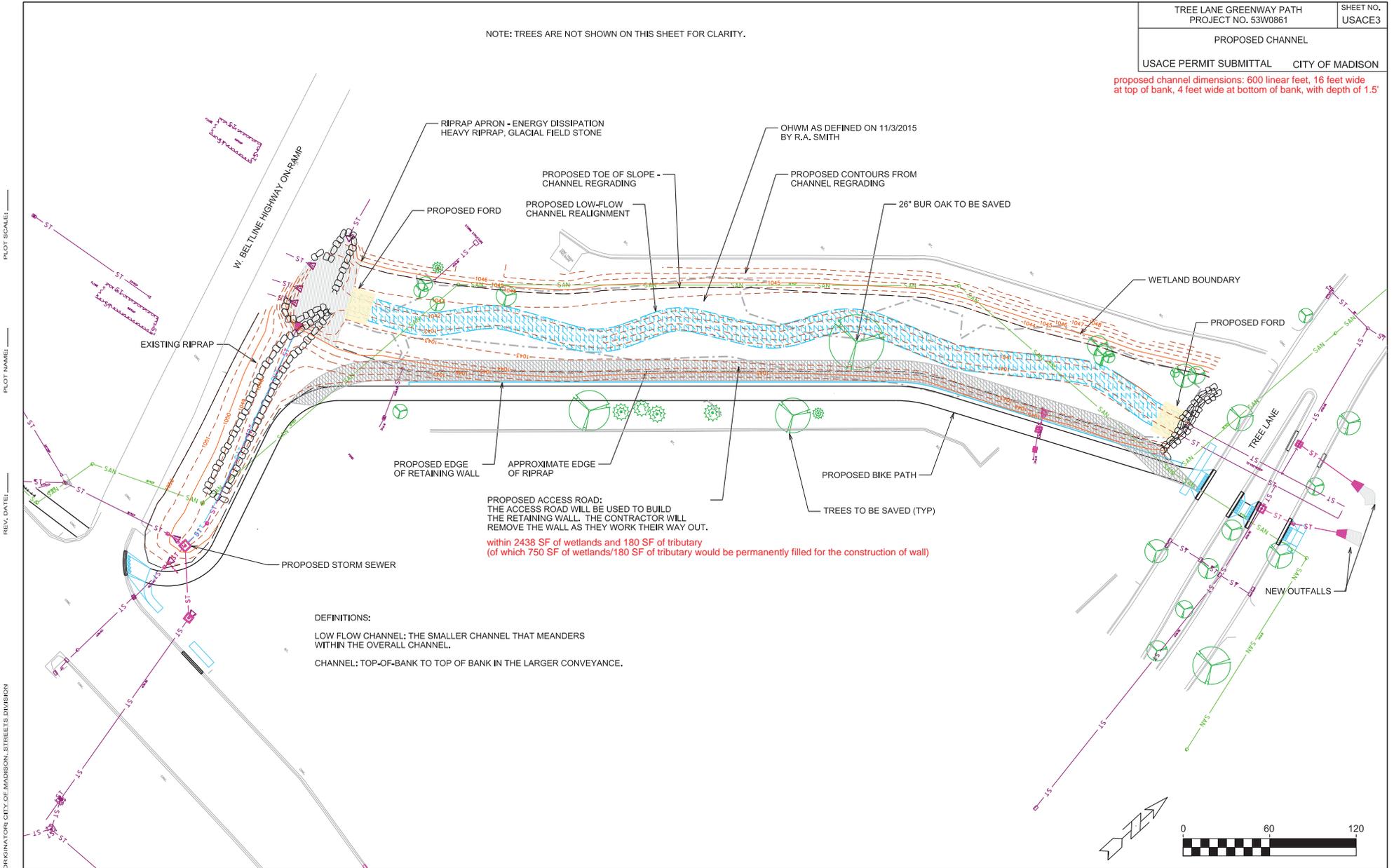


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 ORIGINATOR: CITY OF MADISON, STREETS DIVISION

TREE LANE GREENWAY PATH PROJECT NO. 53W0861	SHEET NO. USACE3
PROPOSED CHANNEL	
USACE PERMIT SUBMITTAL	CITY OF MADISON

proposed channel dimensions: 600 linear feet, 16 feet wide at top of bank, 4 feet wide at bottom of bank, with depth of 1.5'

NOTE: TREES ARE NOT SHOWN ON THIS SHEET FOR CLARITY.



RIPRAP APRON - ENERGY DISSIPATION
HEAVY RIPRAP, GLACIAL FIELD STONE

OHWM AS DEFINED ON 11/3/2015
BY R.A. SMITH

PROPOSED TOE OF SLOPE -
CHANNEL REGRAIDING

PROPOSED CONTOURS FROM
CHANNEL REGRAIDING

PROPOSED FORD

PROPOSED LOW-FLOW
CHANNEL REALIGNMENT

26" BUR OAK TO BE SAVED

EXISTING RIPRAP

W. BELTLINE HIGHWAY ON-RAMP

PROPOSED FORD

WETLAND BOUNDARY

PROPOSED FORD

TREE LANE

PROPOSED EDGE
OF RETAINING WALL

APPROXIMATE EDGE
OF RIPRAP

PROPOSED BIKE PATH

TREES TO BE SAVED (TYP)

PROPOSED ACCESS ROAD:
THE ACCESS ROAD WILL BE USED TO BUILD
THE RETAINING WALL. THE CONTRACTOR WILL
REMOVE THE WALL AS THEY WORK THEIR WAY OUT.
within 2438 SF of wetlands and 180 SF of tributary
(of which 750 SF of wetlands/180 SF of tributary would be permanently filled for the construction of wall)

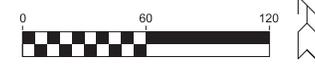
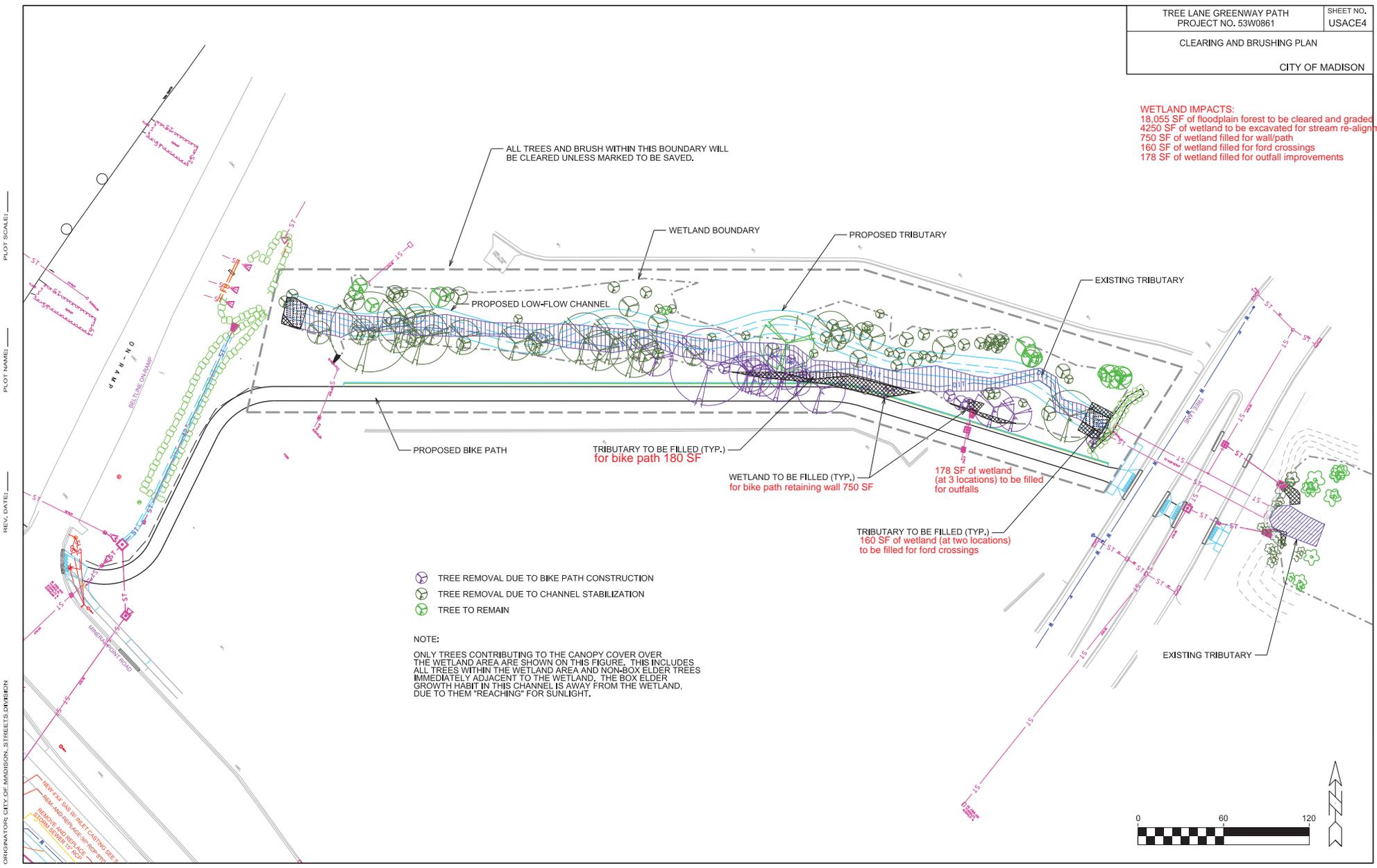
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PLOT SCALE: _____

ORIGINATOR: CITY OF MADISON, STREETS DIVISION

TREE LANE GREENWAY PATH PROJECT NO. 53W0861	SHEET NO. USACE4
CLEARING AND BRUSHING PLAN	
CITY OF MADISON	

WETLAND IMPACTS:
 18,055 SF of floodplain forest to be cleared and graded
 4250 SF of wetland to be excavated for stream re-alignment
 750 SF of wetland filled for wall/path
 160 SF of wetland filled for ford crossings
 178 SF of wetland filled for outfall improvements



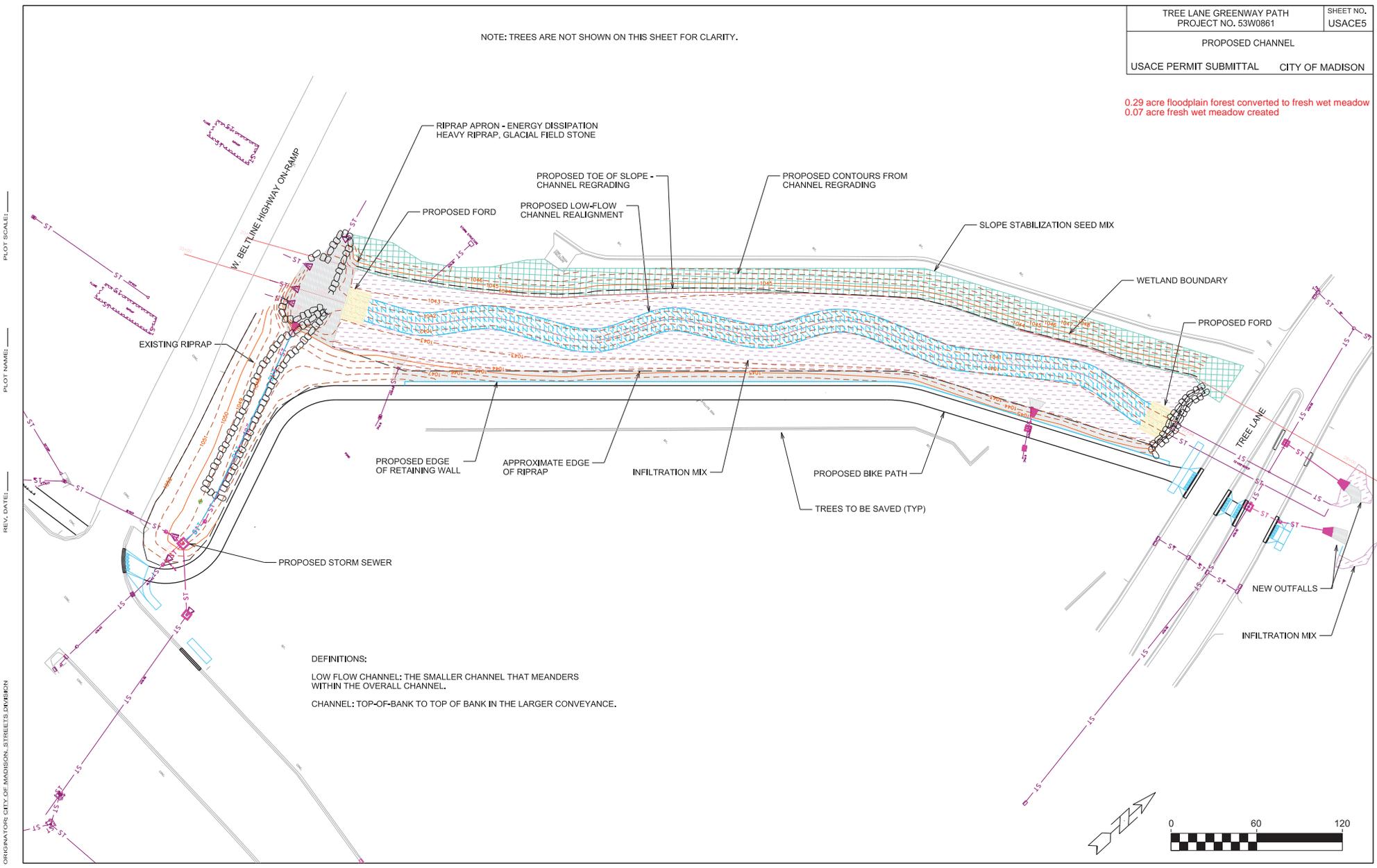
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ORIGINATOR: CITY OF MADISON, STREETS DIVISION

TREE LANE GREENWAY PATH PROJECT NO. 53W0861	SHEET NO. USACE5
PROPOSED CHANNEL	
USACE PERMIT SUBMITTAL	CITY OF MADISON

0.29 acre floodplain forest converted to fresh wet meadow
0.07 acre fresh wet meadow created

NOTE: TREES ARE NOT SHOWN ON THIS SHEET FOR CLARITY.

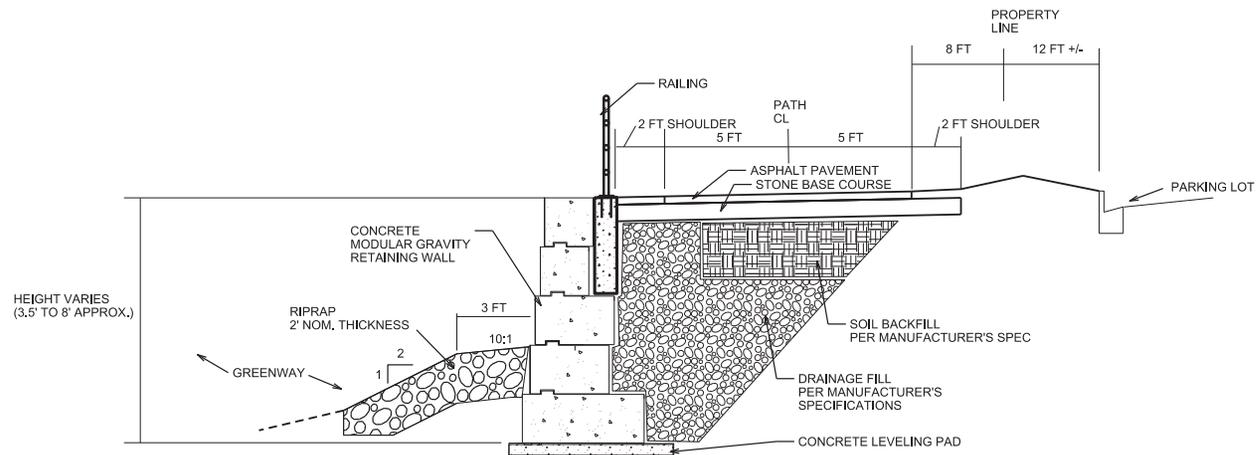


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 REV. DATE: _____
 ORIGINATOR: CITY OF MADISON, STREETS DIVISION

TREE LANE GREENWAY PATH PROJECT NO. 53W0861	SHEET NO. D-1
MODULAR BLOCK WALL DETAILS	
DNR PERMIT SUBMITTAL	CITY OF MADISON



TYPICAL BIKE PATH SECTION WITH RETAINING WALL

NOT TO SCALE

PLOT SCALE: _____

PLOT NAME: _____

REV. DATE: _____

ORIGINATOR: CEM/EL/MADISON_STREETS/AMBERSON

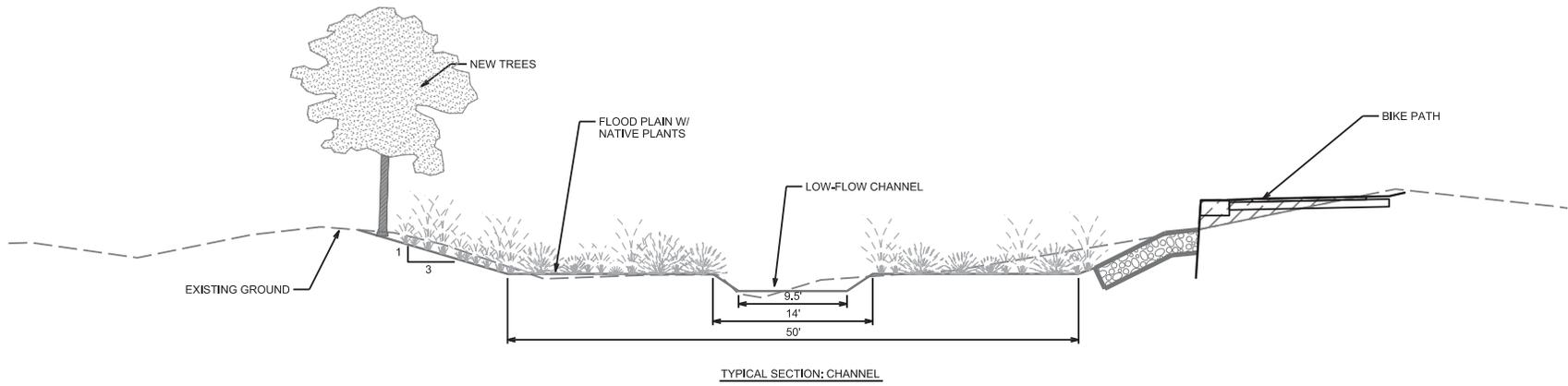
TREE LANE GREENWAY PATH PROJECT NO. 53W0861	SHEET NO. D-2
CHANNEL TYPICAL SECTIONS	
DNR PERMIT SUBMITTAL	CITY OF MADISON

PLOT SCALE: _____

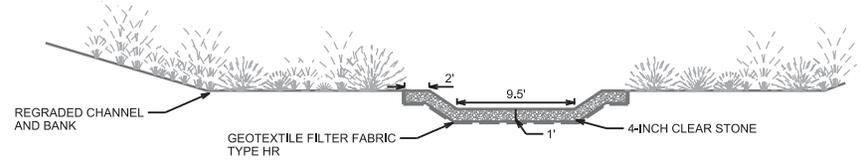
REV. NAME: _____

REV. DATE: _____

ORIGINATOR: GDL@MADISON_STREETS.DWBDNJ



TYPICAL SECTION: CHANNEL



TYPICAL SECTION: FORD/LOW-WATER CROSSING