FINAL DESIGN DRAWINGS FOR

# EAGLE HEIGHTS STORM WATER & EROSION MITIGATION

## PREPARED FOR:

## FRIENDS OF THE LAKESHORE NATURE PRESERVE

3016 LAKE MENDOTA DRIVE MADISON WI 53705

APRIL 26, 2016



## PREPARED BY:



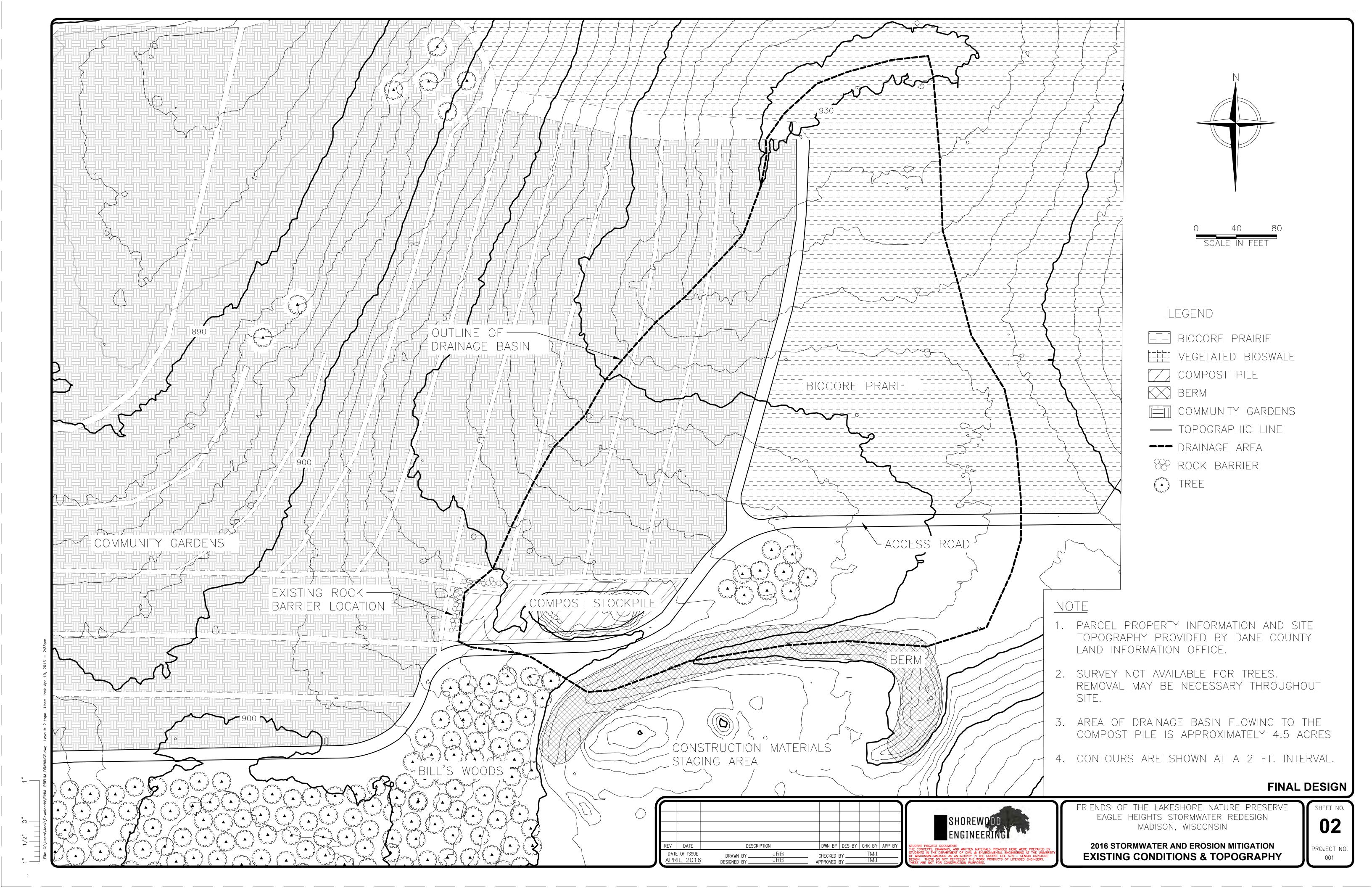
1728 VAN HISE AVE. MADISON, WISCONSIN, 53726 Tel. (319) 541-9665

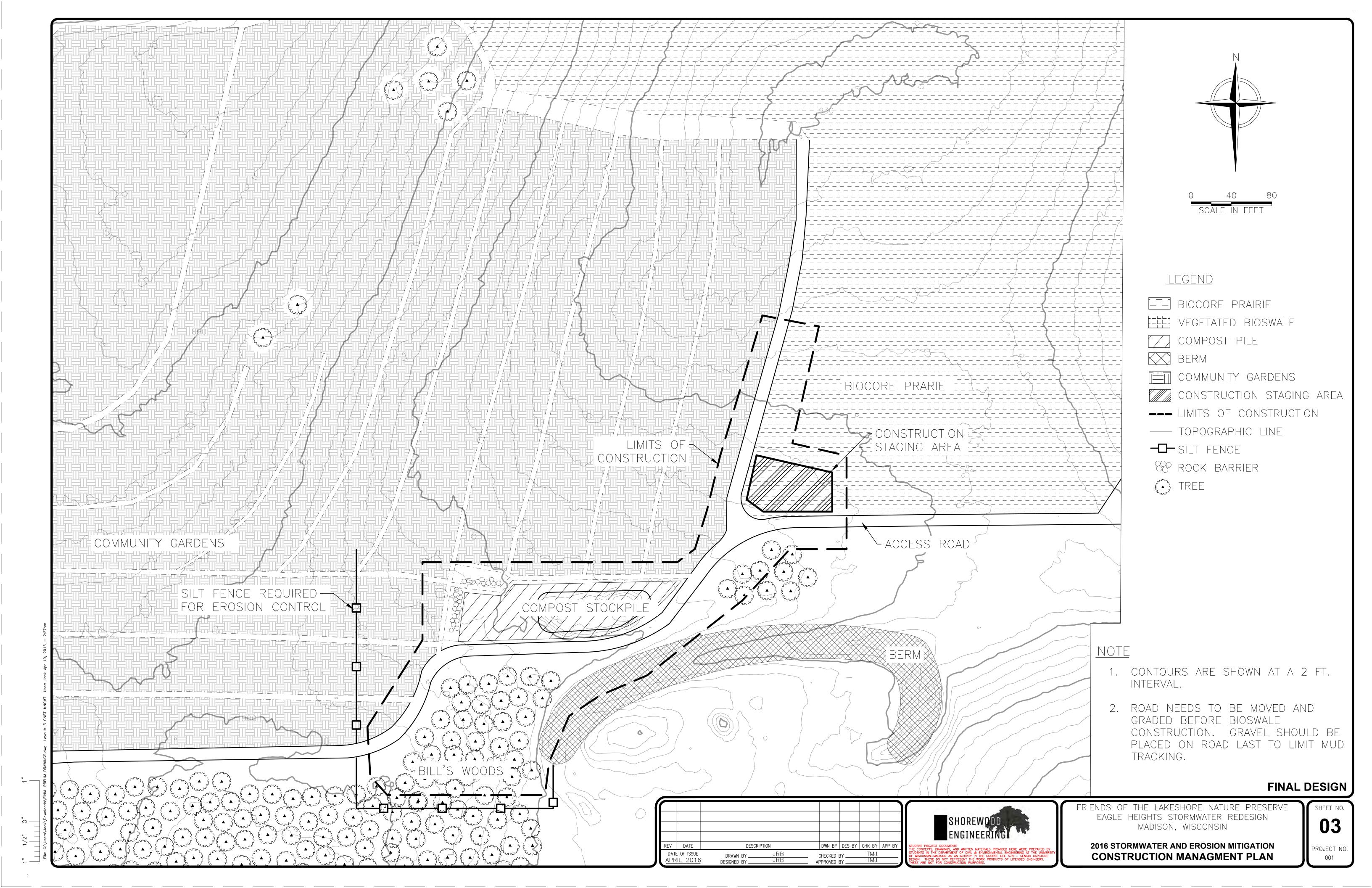
## **INDEX OF DRAWINGS**

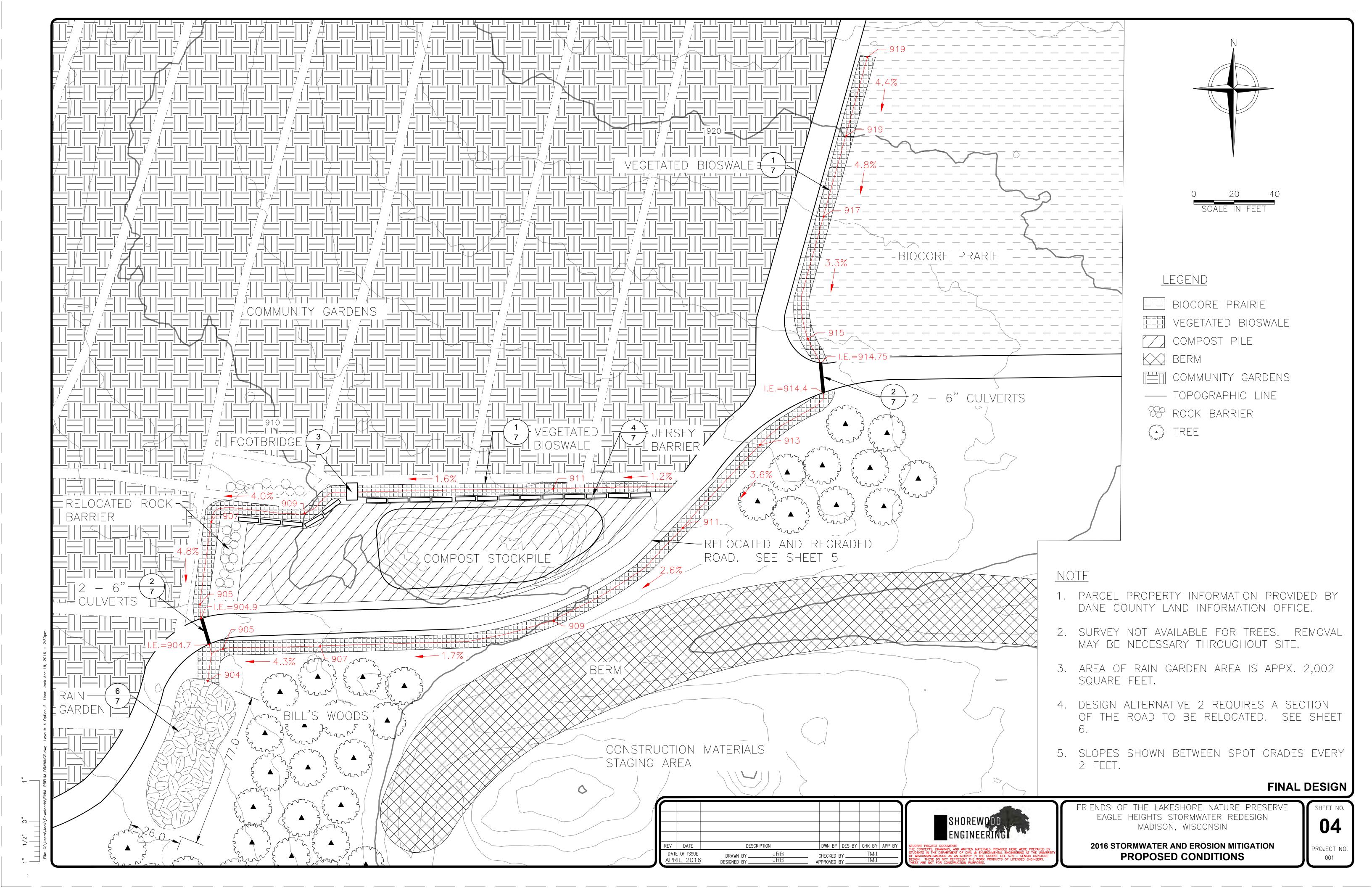
1	COVER SHEET
2	EXISTING CONDITIONS & TOPOGRAPHY
3	CONSTRUCTION MANAGEMENT PLAN
4	PROPOSED CONDITIONS
5	ACCESS ROAD IMPROVEMENTS
6	RAIN GARDEN
7	DETAILS

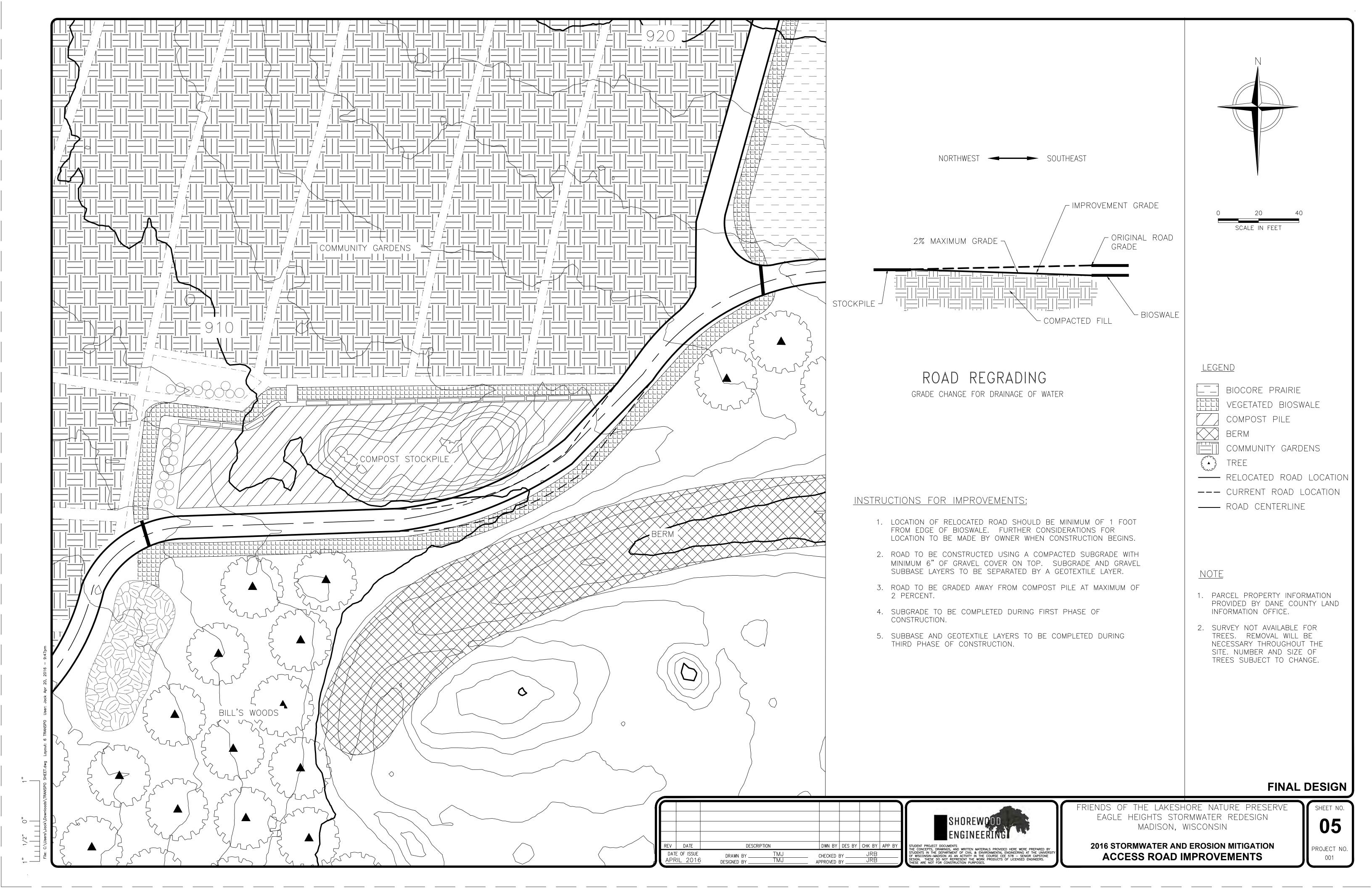
STUDENT PROJECT DOCUMENTS

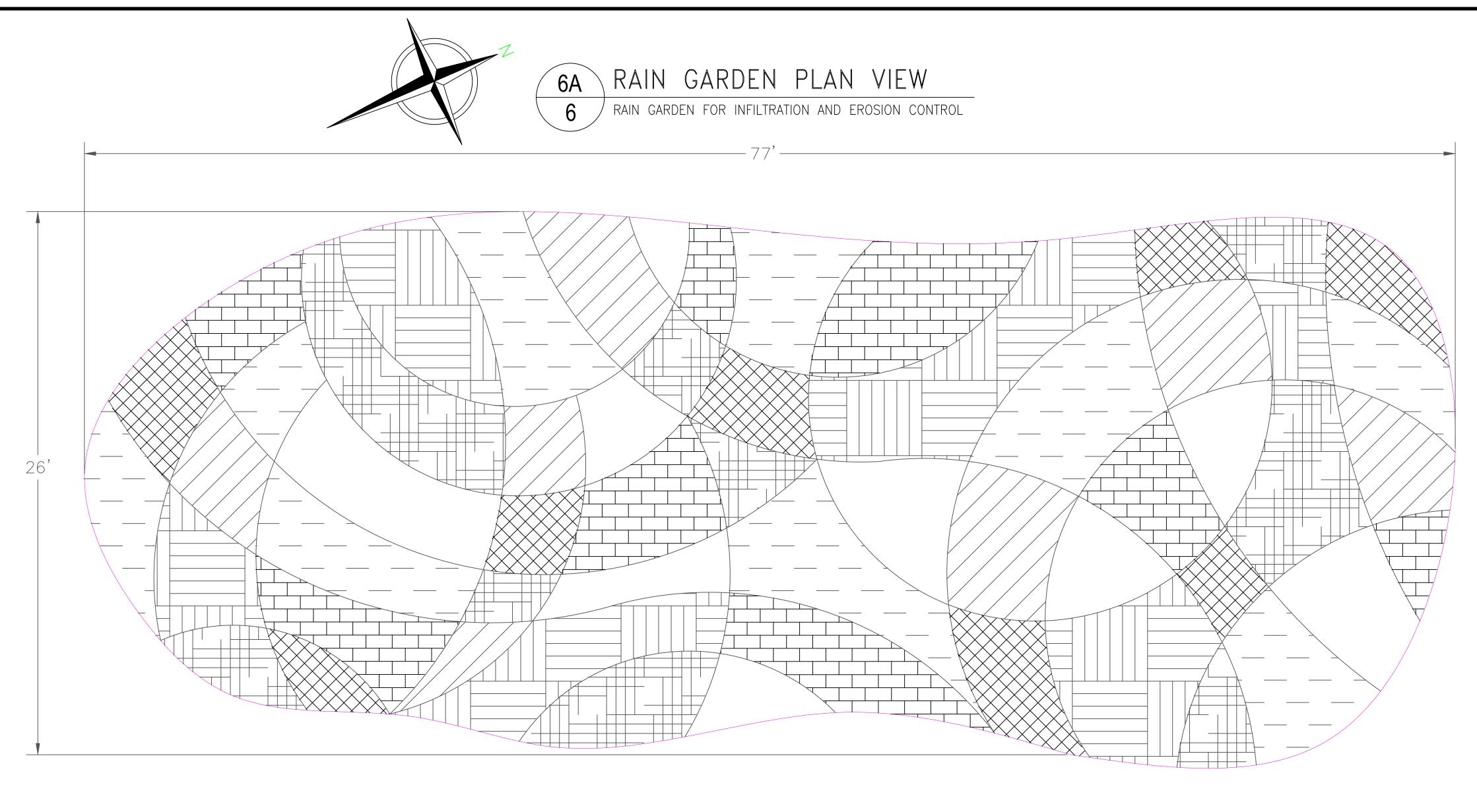
THE CONCEPTS, DRAWINGS, AND WRITTEN MATERIALS PROVIDED HERE WERE PREPARED BY STUDENTS IN THE DEPARTMENT OF CIVIL & ENVIRONMENTAL ENGINEERING AT THE UNIVERSITY OF WISCONSIN-MADISON AS AN ACTIVITY IN THE COURSE CEE 578 — SENIOR CAPSTONE DESIGN. THESE DO NOT REPRESENT THE WORK PRODUCTS OF LICENSED ENGINEERS. THESE ARE NOT FOR CONSTRUCTION PURPOSES.

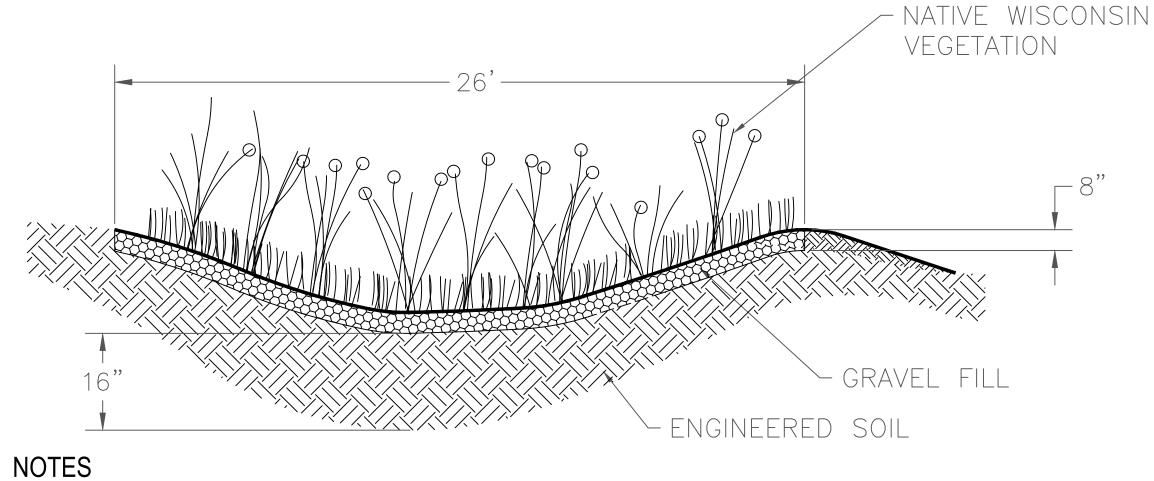












GOLDEN ALEXANDER
GAYFEATHER

RIDDEL'S GOLDENROD
MARSH PLOX

WINGED LOOSESTRIFE
CARDINAL FLOWER

NEW ENGLAND ASTER
SWEET CONEFLOWER

WILD BERGAMOT
GREAT BLUE LOBELA

MOUNTAIN MINT
SNEEZEWEED

SWITCH GRASS
SPOTTED JOE-PYE WEED

**FINAL DESIGN** 

6B

4. DRAWING NOT TO SCALE.

## RAIN GARDEN PROFILE VIEW

2. GRAVEL FILL IN BED OF RAIN GARDEN TO INCREASE INFILTRATION OF STORM WATER.

1. NATIVE VEGETATION USED IN RAIN GARDEN. SEE DETAIL 6A.

3. GEOTEXTILE LAYER SEPARATING GRAVEL FROM ENGINEERED SOIL.

RAIN GARDEN FOR INFILTRATION AND EROSION CONTROL

REV DATE DESCRIPTION DWN BY DES BY CHK BY APP BY

DATE OF ISSUE DRAWN BY \_\_\_\_\_ TMJ \_\_\_\_ CHECKED BY \_\_\_\_ JRB

APRIL 2016 DESIGNED BY \_\_\_\_\_ TMJ \_\_\_\_ APPROVED BY \_\_\_\_ JRB



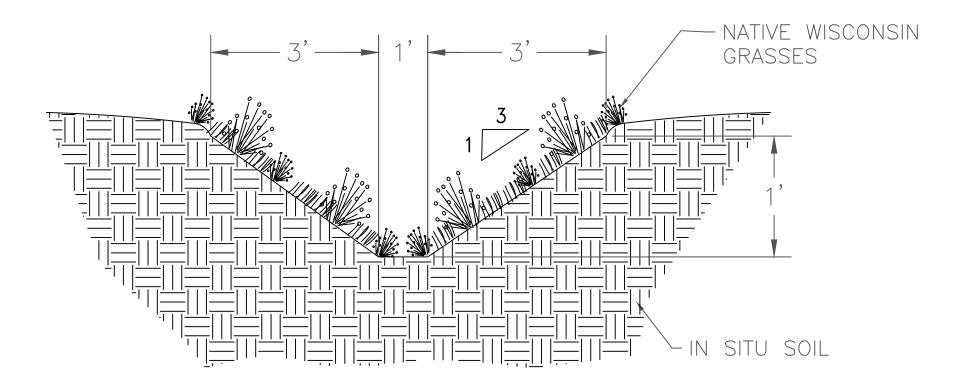
FRIENDS OF THE LAKESHORE NATURE PRESERVE EAGLE HEIGHTS STORMWATER REDESIGN MADISON, WISCONSIN

2016 STORMWATER AND EROSION MITIGATION RAIN GARDEN DETAILS

SHEET NO.

06

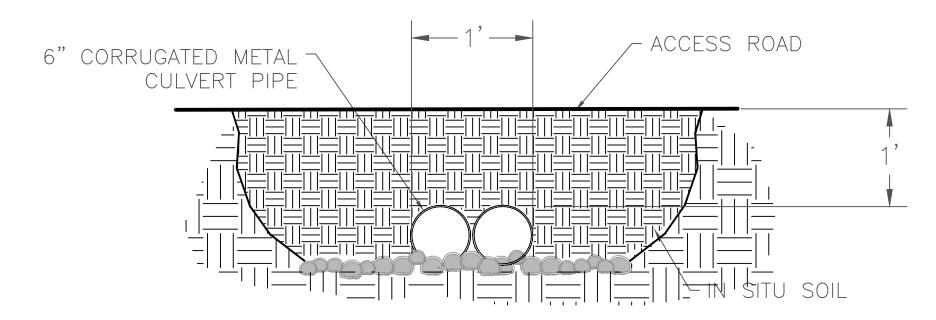
PROJECT NO.
001



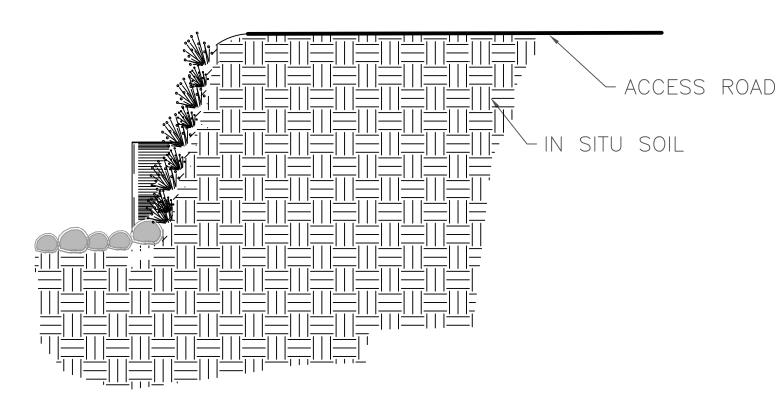
#### NOTES

- 1. BIOSWALE TO BE LINED WITH SELECTED VEGETATION NATIVE TO WISCONSIN.
- 2. DRAWING NOT TO SCALE.





#### **ELEVATION**

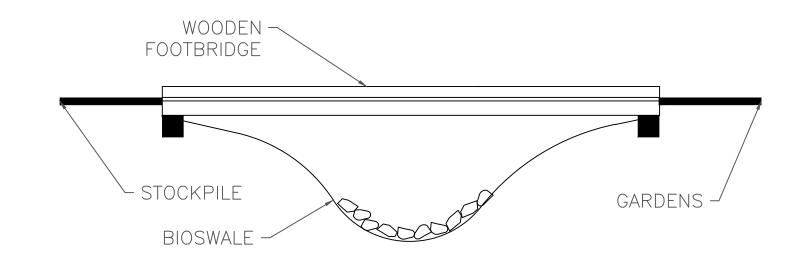


#### **SECTION**

#### NOTES

- 1. TWO 6" CORRUGATED METAL CULVERTS TO RUN UNDER ACCESS ROAD.
- 2. 12" BUFFER BETWEEN TOP OF CULVERT AND GRAVEL ACCESS ROAD.
- 3. RIP RAP AND SCOUR PROTECTION WILL BE PLACED NEAR THE INLET AND OUTLET OF EACH CULVERT.
- 4. DRAWING NOT TO SCALE.

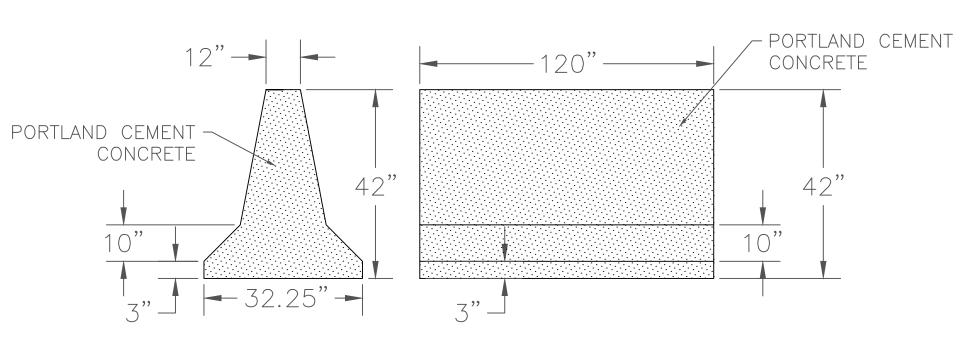
6" CULVERTS CULVERT UNDER ACCESS ROAD



#### NOTES

- 1. FOOTBRIDGE TO BE BUILT OVER BIOSWALE ON NORTH END OF COMPOST PILE.
- 2. FOOTBRIDGE CONSTRUCTION SPECIFICATIONS WILL BE ADDRESSED IN FINAL DESIGN.
- 3. FOOTBRIDGE MUST SPAN 7' BIOSWALE.
- 4. DRAWING NOT TO SCALE.

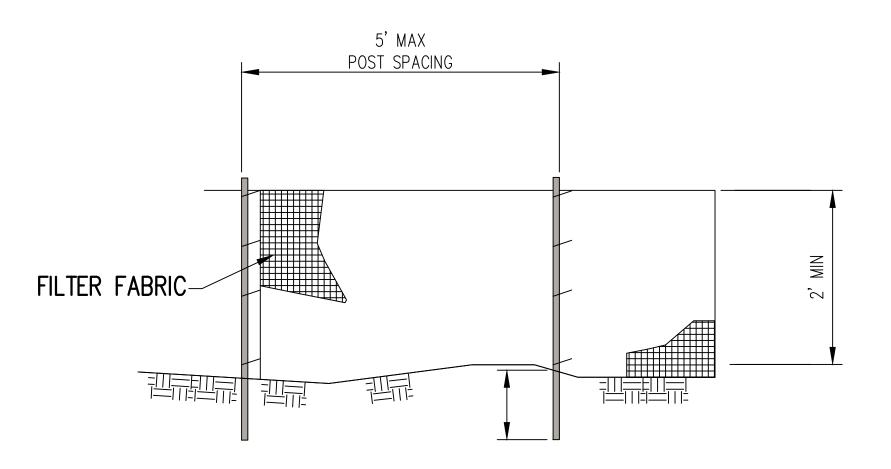




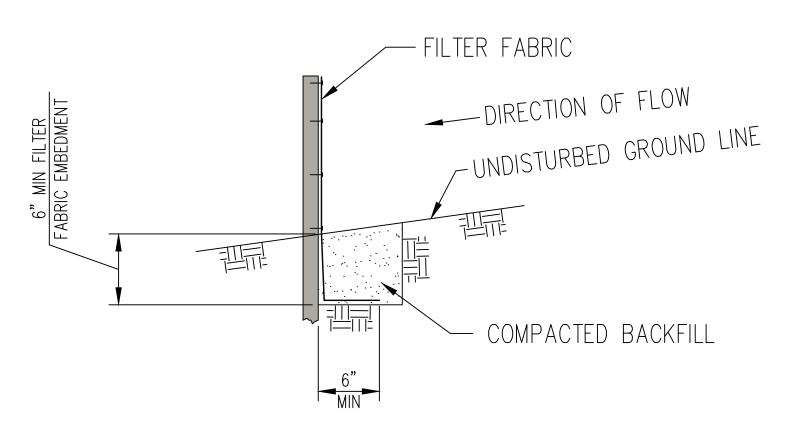
#### NOTES

- 1. PORTLAND CEMENT CONCRETE JERSEY BARRIERS TO LINE NORTH END OF COMPOST PILE.
- 2. JERSEY BARRIER DIMENSIONS SUBJECT TO CHANGE.
- 3. DRAWING NOT TO SCALE.





### ELEVATION



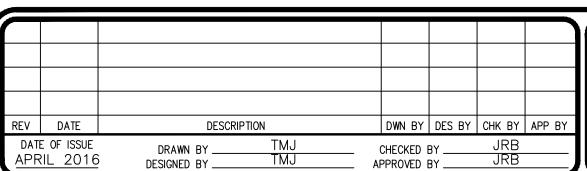
## FABRIC ANCHOR DETAIL

#### NOTES

- 1. TEMPORARY SILT FENCE SHALL BE INSTALLED PRIOR TO ANY GRADING WORK IN THE AREA. FENCE SHALL BE MAINTAINED THROUGHOUT THE CONSTRUCTION PERIOD.
- 2. FENCE POSTS SHALL BE EITHER WOOD POST WITH A MINIMUM CROSS-SECTIONAL AREA OF 1.5" X 1.5" OR A STANDARD STEEL POST.
- 3. DRAWING NOT TO SCALE.

SILT FENCE SILT FENCE FOR EROSION CONTROL

**FINAL DESIGN** 





FRIENDS OF THE LAKESHORE NATURE PRESERVE EAGLE HEIGHTS STORMWATER REDESIGN MADISON, WISCONSIN

2016 STORMWATER AND EROSION MITIGATION **DETAILS** 

07 PROJECT NO. 001

SHEET NO.