



Storm Water Detention/Retention Structures – Annual Inspection Form

(RETURN CHECKLIST WITHIN 30 DAYS OF MAY 1ST DUE DATE ANNUALLY)

If you have any questions regarding this checklist, please call the City of Berea Engineering Dept. at 440/826-5814.

Basin/Property Owner: Baldwin Wallace College

Basin/Structure Maintainer (usually owner): Baldwin Wallace College

Basin/Property Address: 325 Front St., Berea, Ohio 44017 (Adelbert St. Parking Lot)

Phone Number of Owner and Maintainer: 440-826-2233

Basin/Structure Type (circle choice or write in below):
 Rain Garden/Bioretenition; Wet Detention; Dry Detention; Other: _____

Inspection Date: April 4, 2018

ANNUAL INSPECTION ITEMS

Circle "Yes" or "No" for all items below

- | | | |
|----|---|---|
| A. | HAS DEBRIS OR TRASH ACCUMULATED IN BASIN OR STRUCTURE? | YES <input checked="" type="radio"/> NO <input type="radio"/> |
| B. | ARE NOXIOUS WEEDS PRESENT ? | YES <input type="radio"/> NO <input checked="" type="radio"/> |
| C. | IS THERE EXPOSED SOIL NOT COVERED WITH VEGETATION, MULCH OR OTHER NON-ERODABLE MATERIAL? | YES <input checked="" type="radio"/> NO <input type="radio"/> |
| D. | IS ALGAE OR STAGNANT MOISTURE PRESENT IN BASIN OR STRUCTURE? | YES <input type="radio"/> NO <input checked="" type="radio"/> |
| E. | ARE UNPLEASANT ODORS EMERGING FROM BASIN OR STRUCTURE? | YES <input type="radio"/> NO <input checked="" type="radio"/> |
| F. | HAS SEDIMENT ACCUMULATED IN BASIN OR STRUCTURE? | YES <input checked="" type="radio"/> NO <input type="radio"/> |
| G. | IS SOIL EROSION PRESENT ALONG STANDING OR MOVING SURFACE WATER? | YES <input type="radio"/> NO <input checked="" type="radio"/> |
| H. | IS SOIL EROSION PRESENT AT BASIN SIDES, INLET OR OUTLET? | YES <input checked="" type="radio"/> NO <input type="radio"/> |
| I. | ARE HOLES PRESENT FROM ANIMALS OR UNDESIRABLE SOIL LOSS? | YES <input type="radio"/> NO <input checked="" type="radio"/> |
| J. | ARE WET OR SOGGY AREAS PRESENT THAT PREVENT DESIRED VEGETATION FROM GROWING? | YES <input type="radio"/> NO <input checked="" type="radio"/> |
| K. | IS RUNOFF ENTERING OR LEAVING THE BASIN OR STRUCTURE IN A MANNER THAT PREVENTS PROPER FUNCTION OF ITS INFLOW OR OUTFLOW SYSTEMS? | YES <input type="radio"/> NO <input checked="" type="radio"/> |
| L. | DOES FLOW OUT OF BASIN OR STRUCTURE OCCUR IN A MANNER THAT CREATES EROSION OR DAMAGE TO ADJACENT PROPERTY? | YES <input type="radio"/> NO <input checked="" type="radio"/> |
| M. | ARE THE BASIN OR STRUCTURE FUNCTIONS IMPAIRED? | YES <input type="radio"/> NO <input checked="" type="radio"/> |
| N. | OTHER ITEMS AND COMMENTS: _____ | |
| O. | CORRECTIVE MEASURES FOR ALL YES ANSWERS ABOVE: <u>Debris or trash that has accumulated in the basin or structure should be collected and properly disposed of. Exposed soil should be covered with additional mulch or other non-erodable material. Also, filter fabric should be covered with additional mulch. All catch basins should be checked periodically and cleaned out if sediment has accumulated within the structure. The rip rap at some of the curb inlets should be moved closer to the actual curb inlet opening to prevent further erosion.</u> | |

* PLEASE PROVIDE PHOTOGRAPHS OF ALL COMPONENTS OF THE BASIN *
 THESE SHALL BE IN .JPG FORMAT ON A CD

- A. **ASSESSMENT OF ANY PIPE, RIPRAP AND STRUCTURES PRESENT:**
 (i.e. IS THERE A NEED FOR REPLACEMENT OR MAINTENANCE OF BASIN OR STRUCTURE COMPONENTS?)
- The catch basin outlet structure for basin B3 needs to be cleaned out because debris/sediment has accumulated within the structure. At some of the curb inlets, the rip rap should be moved closer to the inlet opening in order to dissipate the energy of the water entering the basin. This will help to prevent erosion at the curb inlets and improve the overall basin function. For basin B1, the rip rap at the curb inlets should be installed or reset.

B. **GENERAL ASSESSMENT OF THE BASIN OR STRUCTURE:**
(i.e. DOES THE BASIN OR STRUCTURE APPEAR TO FUNCTION PROPERLY? MODIFICATIONS RECOMMENDED FOR IMPROVED FUNCTION?) _____

Basin appears to be functioning properly.

C. **PRINCIPAL SPILLWAY, EMERGENCY SPILLWAY, EMBANKMENT, FLOWWAYS, SAFETY FEATURES**
(ACCESS EASEMENTS & AQUATIC PLANTS – ARE THESE FEATURES FUNCTIONING PROPERLY?)

All basins are easily accessible and plant material is established. The roots for some of the plants are visible. Additional mulch should be used to cover the exposed roots.

D. **ASSESSMENT OF BASIN OR STRUCTURE ELEVATIONS:**
(i.e. ARE CRITICAL INFLOW, OUTFLOW, OVERFLOW PATHS AND ELEVATIONS UNCHANGED FROM THE AS-BUILT PLANS?)

(NOTE: THE ELEVATION REASONABLENESS CHECK IS INTENDED TO BE A VISUAL CHECK FOR LARGE SETTLEMENT, CHANNEL EROSION, OR BASIN MODIFICATIONS, AND NOT A REQUIREMENT FOR A SURVEY.)

All elevations appear to be as planned.

E. **ASSESSMENT OF BASIN OR STRUCTURE VOLUMES:**
(i.e. IS THERE EVIDENCE OF BASIN CHANGES AFFECTING THE STORAGE VOLUME FROM THAT SHOWN ON THE AS-BUILT PLANS?)

(NOTE: THE VOLUME REASONABLENESS CHECK IS INTENDED TO BE A VISUAL CHECK FOR LARGE ACCUMULATIONS OF SEDIMENT OR BASIN MODIFICATIONS AND NOT A REQUIREMENT FOR A SURVEY.)

Basin / structure volumes appear to be as planned.

F. **ARE THERE ANY OBSTRUCTIONS TO ACCESS EASEMENTS?** No

G. **OTHER ITEMS AND COMMENTS:**

H. **CORRECTIVE MEASURES NEEDED:**

Debris or trash that has accumulated in the basin or structure should be collected and properly disposed of. Exposed soil should be covered with additional mulch or other non-erodable material. Also, filter fabric should be covered with additional mulch. The rip rap at some of the inlet entrances should be moved closer to the inlet opening. Exposed plant roots should be covered with additional mulch. Finally, the rip rap at the curb inlets for basin B1 should be installed or reset.
(ATTACH ADDITIONAL PAGES IF NEEDED TO PROPERLY DOCUMENT INSPECTION ABOVE.)

INSPECTIONS: IF THE STRUCTURE HAS AN ODNR DIV. OF WATER PERMIT, THE STRUCTURE SHALL BE INSPECTED BY A PROFESSIONAL ENGINEER LICENSED IN THE STATE OF OHIO. ALL OTHER BASINS CAN BE INSPECTED BY A PROFESSIONAL ENGINEER, LOCAL SOIL & WATER CONSERVATION DISTRICT, CERTIFIED PROFESSIONAL IN EROSION AND SEDIMENT CONTROL, OR A LANDSCAPE ARCHITECT.

THE INFORMATION PROVIDED IN THIS INSPECTION FORM IS AN ACCURATE AND CURRENT DESCRIPTION OF THE BASIN OR STRUCTURE AT THIS ADDRESS:

325 Front St., Berea, Ohio 44017


SIGNATURE OF PERSON COMPLETING THIS FORM

6/22/2018
DATE

FIRM: Neff & Associates, Inc.

ADDRESS: 6405 York Road, Parma Heights, Ohio



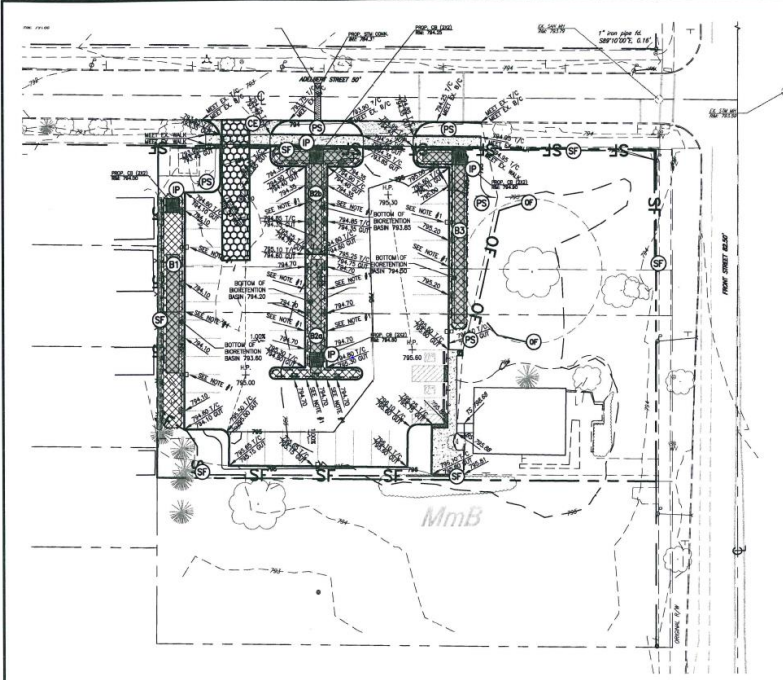
THIS INSPECTION FORM MUST BE RETURNED TO THE FOLLOWING ADDRESS ANNEX 31"

CITY OF BEREA ENGINEERING DEPARTMENT
11 BEREA COMMONS, BEREA, OHIO 44017
PHONE: 440/826-5814









LEGEND

	BOARDWALK AREA
	PARKING AREA (200)
	PARKING AREA (500)
	STORM DRAIN INLET PROTECTION
	CONSTRUCTION ENTRANCE
	PERMANENT SEALING
	12' CONTOUR
	15' CONTOUR
	20' CONTOUR
	LIMITS OF DISTURBANCE

Scale: 1" = 30' Feet
 MmB - Marketing - Urban Land Company, Inc.

BALDWIN WALLACE COLLEGE - ADELBERT PARKING LOT
 SWPPP - SITE PLAN
 CITY OF BEREA, CUYAHOGA COUNTY, STATE OF OHIO



1	12/11/2011	STORM SYSTEM REVISIONS	SHEET NO.
2	5/20/2011	PERMIT & BID SET	C.2.3
REV NO.	DATE	DESCRIPTION	
DATE	DRAWN BY	CHECKED BY	
12/11/2011	DP	DN	12/11/2011



Storm Water Detention/Retention Structures – Annual Inspection Form

(RETURN CHECKLIST WITHIN 30 DAYS OF MAY 1ST DUE DATE ANNUALLY)

If you have any questions regarding this checklist, please call the City of Berea Engineering Dept. at 440/826-5814.

Basin/Property Owner: Baldwin Wallace College

Basin/Structure Maintainer (usually owner): Baldwin Wallace College

Basin/Property Address: Parking lot North of 296 Beech St., Berea, Ohio 44017 (Beech St. Parking Lot)

Phone Number of Owner and Maintainer: 440-826-2233

Basin/Structure Type (circle choice or write in below):
Rain Garden/Bioretenion; Wet Detention; Dry Detention; Other: _____

Inspection Date: April 4, 2018

ANNUAL INSPECTION ITEMS

Circle "Yes" or "No" for all items below

- | | | | |
|----|--|--------------------------------------|--------------------------|
| A. | HAS DEBRIS OR TRASH ACCUMULATED IN BASIN OR STRUCTURE? | YES | <input type="radio"/> NO |
| B. | ARE NOXIOUS WEEDS PRESENT ? | YES | <input type="radio"/> NO |
| C. | IS THERE EXPOSED SOIL NOT COVERED WITH VEGETATION, MULCH OR OTHER NON-ERODABLE MATERIAL? | YES | <input type="radio"/> NO |
| D. | IS ALGAE OR STAGNANT MOISTURE PRESENT IN BASIN OR STRUCTURE? | YES | <input type="radio"/> NO |
| E. | ARE UNPLEASANT ODORS EMERGING FROM BASIN OR STRUCTURE? | YES | <input type="radio"/> NO |
| F. | HAS SEDIMENT ACCUMULATED IN BASIN OR STRUCTURE? | YES | <input type="radio"/> NO |
| G. | IS SOIL EROSION PRESENT ALONG STANDING OR MOVING SURFACE WATER? | YES | <input type="radio"/> NO |
| H. | IS SOIL EROSION PRESENT AT BASIN SIDES, INLET OR OUTLET? | YES | <input type="radio"/> NO |
| I. | ARE HOLES PRESENT FROM ANIMALS OR UNDESIRABLE SOIL LOSS? | <input checked="" type="radio"/> YES | <input type="radio"/> NO |
| J. | ARE WET OR SOGGY AREAS PRESENT THAT PREVENT DESIRED VEGETATION FROM GROWING? | YES | <input type="radio"/> NO |
| K. | IS RUNOFF ENTERING OR LEAVING THE BASIN OR STRUCTURE IN A MANNER THAT PREVENTS PROPER FUNCTION OF ITS INFLOW OR OUTFLOW SYSTEMS? | YES | <input type="radio"/> NO |
| L. | DOES FLOW OUT OF BASIN OR STRUCTURE OCCUR IN A MANNER THAT CREATES EROSION OR DAMAGE TO ADJACENT PROPERTY? | YES | <input type="radio"/> NO |
| M. | ARE THE BASIN OR STRUCTURE FUNCTIONS IMPAIRED? | YES | <input type="radio"/> NO |
| N. | OTHER ITEMS AND COMMENTS: _____ | | |
| O. | CORRECTIVE MEASURES FOR ALL YES ANSWERS ABOVE: <u>A hole was found on the north island and should be refilled with additional mulch.</u> | | |

* PLEASE PROVIDE PHOTOGRAPHS OF ALL COMPONENTS OF THE BASIN *
THESE SHALL BE IN .JPG FORMAT ON A CD

- A. ASSESSMENT OF ANY PIPE, RIPRAP AND STRUCTURES PRESENT:
(i.e. IS THERE A NEED FOR REPLACEMENT OR MAINTENANCE OF BASIN OR STRUCTURE COMPONENTS?)
Basin components appear to be functioning properly.



SHEET NO. C20

NO.	DATE	REVISION



BALDWIN WALLACE COLLEGE
SITE LAYOUT & GRADING PLANS
 CITY OF BEREA, COLUMBIANA COUNTY, STATE OF OHIO

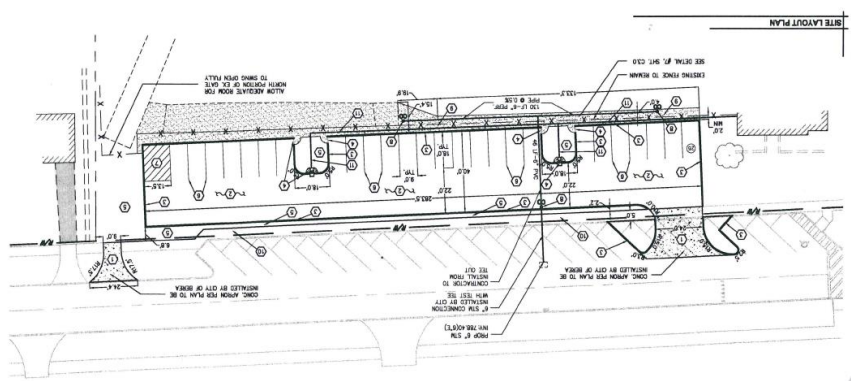
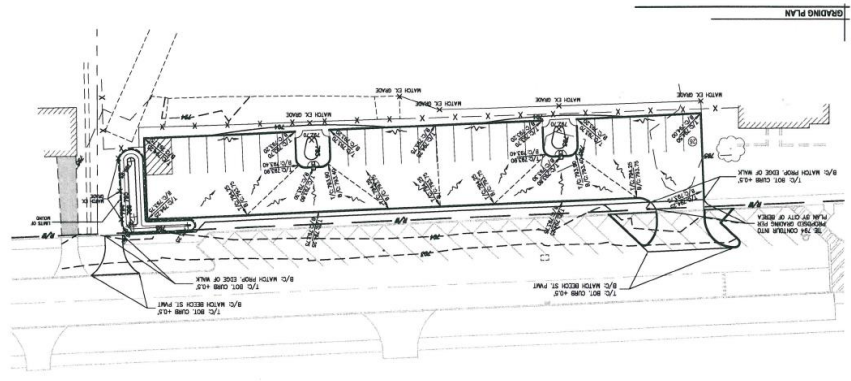


GRADING LEGEND

(Symbol)	EXIST. FINISHED GRADE
(Symbol)	EXIST. PROPOSED GRADE
(Symbol)	PROPOSED FINISHED GRADE
(Symbol)	PROPOSED PROTECTIVE GRADE
(Symbol)	PROPOSED 1" CONTIGUOUS
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(Symbol)	PROPOSED 12" CONTIGUOUS
(Symbol)	PROPOSED 15" CONTIGUOUS
(Symbol)	PROPOSED 18" CONTIGUOUS
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(Symbol)	PROPOSED 24" CONTIGUOUS
(Symbol)	PROPOSED 30" CONTIGUOUS
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(Symbol)	PROPOSED 60" CONTIGUOUS
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KEY NOTES

1. ALL EXIST. CONCRETE
2. CONCRETE SHALL BE PERFORMED BY CITY
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30. CONCRETE SHALL BE PERFORMED BY CITY





Storm Water Detention/Retention Structures – Annual Inspection Form

(RETURN CHECKLIST BY THE MAY 31ST DUE DATE ANNUALLY)

If you have any questions regarding this checklist, please call the City of Berea Engineering Dept. at 440/826-5814.

Basin/Property Owner: Baldwin Wallace University

Basin/Structure Maintainer (usually owner): Baldwin Wallace University

Basin/Property Address: 33 Seminary St., Berea, Ohio 44017 (Church Street Parking Lot)

Phone Number of Owner and Maintainer: 440-826-2233

Basin/Structure Type (circle choice or write in below):
Rain Garden/Bioretenion Wet Detention; Dry Detention; Other: _____

Inspection Date: April 4, 2018

ANNUAL INSPECTION ITEMS

Circle "Yes" or "No" for all items below

- A. HAS DEBRIS OR TRASH ACCUMULATED IN BASIN OR STRUCTURE? YES NO
- B. ARE NOXIOUS WEEDS PRESENT? YES NO
- C. IS THERE EXPOSED SOIL NOT COVERED WITH VEGETATION, MULCH OR OTHER NON-ERODABLE MATERIAL? YES NO
- D. IS ALGAE OR STAGNANT MOISTURE PRESENT IN BASIN OR STRUCTURE? YES NO
- E. ARE UNPLEASANT ODORS EMERGING FROM BASIN OR STRUCTURE? YES NO
- F. HAS SEDIMENT ACCUMULATED IN BASIN OR STRUCTURE? YES NO
- G. IS SOIL EROSION PRESENT ALONG STANDING OR MOVING SURFACE WATER? YES NO
- H. IS SOIL EROSION PRESENT AT BASIN SIDES, INLET OR OUTLET? YES NO
- I. ARE HOLES PRESENT FROM ANIMALS OR UNDESIRABLE SOIL LOSS? YES NO
- J. ARE WET OR SOGGY AREAS PRESENT THAT PREVENT DESIRED VEGETATION FROM GROWING? YES NO
- K. IS RUNOFF ENTERING OR LEAVING THE BASIN OR STRUCTURE IN A MANNER THAT PREVENTS PROPER FUNCTION OF ITS INFLOW OR OUTFLOW SYSTEMS? YES NO
- L. DOES FLOW OUT OF BASIN OR STRUCTURE OCCUR IN A MANNER THAT CREATES EROSION OR DAMAGE TO ADJACENT PROPERTY? YES NO
- M. ARE THE BASIN OR STRUCTURE FUNCTIONS IMPAIRED? YES NO
- N. OTHER ITEMS AND COMMENTS: _____
- O. CORRECTIVE MEASURES FOR ALL YES ANSWERS ABOVE: Catch basin structures should be checked periodically and any debris or trash that has accumulated within these structures should be properly disposed of. Also, debris should be removed from both basin bottoms on a periodic basis. Additional rip rap is suggested at the curb inlet which is adjacent to the parking lot for basin B1.

*** PLEASE PROVIDE PHOTOGRAPHS OF ALL COMPONENTS OF THE BASIN *
THESE SHALL BE IN .JPG FORMAT ON A CD**

- A. **ASSESSMENT OF ANY PIPE, RIPRAP AND STRUCTURES PRESENT:**
(i.e. IS THERE A NEED FOR REPLACEMENT OR MAINTENANCE OF BASIN OR STRUCTURE COMPONENTS?)
Basin components appear to be functioning properly. The curb inlet which is adjacent to the parking lot for basin B1, could use more rip rap to prevent erosion.

B. **GENERAL ASSESSMENT OF THE BASIN OR STRUCTURE:**
(i.e. DOES THE BASIN OR STRUCTURE APPEAR TO FUNCTION PROPERLY? MODIFICATIONS RECOMMENDED FOR IMPROVED FUNCTION?) _____

Both basins appear to be functioning properly.

C. **PRINCIPAL SPILLWAY, EMERGENCY SPILLWAY, EMBANKMENT, FLOWWAYS, SAFETY FEATURES**
(ACCESS EASEMENTS & AQUATIC PLANTS – ARE THESE FEATURES FUNCTIONING PROPERLY?)

The basins are easily accessible and all plant material is doing well. It is recommended that the weeds be removed and additional mulch be laid down in its place for basin B1. This is an aesthetic comment and the weeds are not affecting the basin function.

D. **ASSESSMENT OF BASIN OR STRUCTURE ELEVATIONS:**
(i.e. ARE CRITICAL INFLOW, OUTFLOW, OVERFLOW PATHS AND ELEVATIONS UNCHANGED FROM THE AS-BUILT PLANS?)

(NOTE: THE ELEVATION REASONABLENESS CHECK IS INTENDED TO BE A VISUAL CHECK FOR LARGE SETTLEMENT, CHANNEL EROSION, OR BASIN MODIFICATIONS, AND NOT A REQUIREMENT FOR A SURVEY.)

All elevations are unchanged.

E. **ASSESSMENT OF BASIN OR STRUCTURE VOLUMES:**
(i.e. IS THERE EVIDENCE OF BASIN CHANGES AFFECTING THE STORAGE VOLUME FROM THAT SHOWN ON THE AS-BUILT PLANS?)

(NOTE: THE VOLUME REASONABLENESS CHECK IS INTENDED TO BE A VISUAL CHECK FOR LARGE ACCUMULATIONS OF SEDIMENT OR BASIN MODIFICATIONS AND NOT A REQUIREMENT FOR A SURVEY.)

All volumes are unchanged.

F. **ARE THERE ANY OBSTRUCTIONS TO ACCESS EASEMENTS?** No

G. **OTHER ITEMS AND COMMENTS:**

Riprap should be monitored for wash out and erosion at curb inlets into basin. Also, catch basins should be checked periodically for debris build up.

H. **CORRECTIVE MEASURES NEEDED:**

(ATTACH ADDITIONAL PAGES IF NEEDED TO PROPERLY DOCUMENT INSPECTION ABOVE.)

INSPECTIONS: IF THE STRUCTURE HAS AN ODNR DIV. OF WATER PERMIT, THE STRUCTURE SHALL BE INSPECTED BY A PROFESSIONAL ENGINEER LICENSED IN THE STATE OF OHIO. ALL OTHER BASINS CAN BE INSPECTED BY A PROFESSIONAL ENGINEER, LOCAL SOIL & WATER CONSERVATION DISTRICT, CERTIFIED PROFESSIONAL IN EROSION AND SEDIMENT CONTROL, OR A LANDSCAPE ARCHITECT.

THE INFORMATION PROVIDED IN THIS INSPECTION FORM IS AN ACCURATE AND CURRENT DESCRIPTION OF THE BASIN OR STRUCTURE AT THIS ADDRESS:

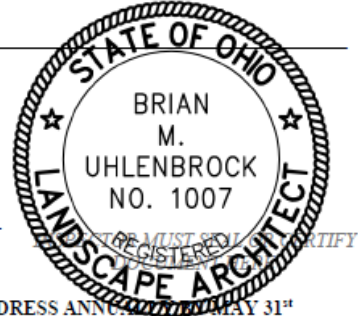
33 Seminary St., Berea, Ohio 44017

B. M. Uhlenbrock
SIGNATURE OF PERSON COMPLETING THIS FORM

6/22/2018
DATE

FIRM: Neff & Associates

ADDRESS: 6405 York Road, Parma Heights, Ohio 44130

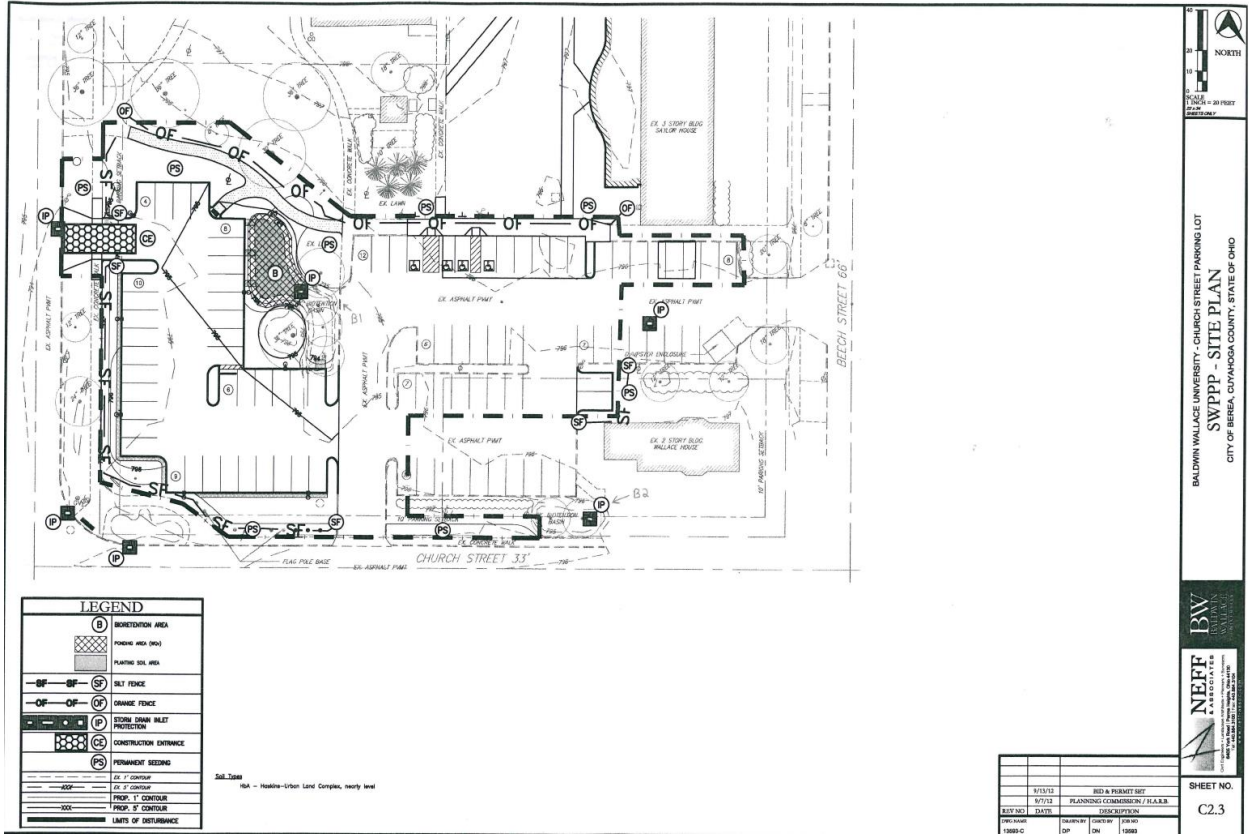


THIS INSPECTION FORM MUST BE RETURNED TO THE FOLLOWING ADDRESS ANNEX 1 MAY 31st

CITY OF BEREA ENGINEERING DEPARTMENT
11 BEREA COMMONS, BEREA, OHIO 44017
PHONE: 440/826-5814

Basin components appear to be functioning properly. The curb inlet which is adjacent to the parking lot for basin B1,





I. Baldwin Wallace University: Adalbert Street Parking Lot



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(RETURN CHECKLIST BY THE MAY 31ST DUE DATE ANNUALLY)

If you have any questions regarding this checklist, please call the City of Berea Engineering Dept. at 440/826-5814.

Basin/Property Owner: Baldwin Wallace University

Basin/Structure Maintainer (usually owner): Baldwin Wallace University

Basin/Property Address: 340 Front Street, Berea, Ohio 44017 (CIG Parking Lot)

Phone Number of Owner and Maintainer: 440-826-2233

Basin/Structure Type (circle choice or write in below):
Rain Garden/Bioretenion Wet Detention; Dry Detention; Other: _____

Inspection Date: April 4, 2018

ANNUAL INSPECTION ITEMS

Circle "Yes" or "No" for all items below

- A. HAS DEBRIS OR TRASH ACCUMULATED IN BASIN OR STRUCTURE? YES NO
- B. ARE NOXIOUS WEEDS PRESENT? YES NO
- C. IS THERE EXPOSED SOIL NOT COVERED WITH VEGETATION, MULCH OR OTHER NON-ERODABLE MATERIAL? YES NO
- D. IS ALGAE OR STAGNANT MOISTURE PRESENT IN BASIN OR STRUCTURE? YES NO
- E. ARE UNPLEASANT ODORS EMERGING FROM BASIN OR STRUCTURE? YES NO
- F. HAS SEDIMENT ACCUMULATED IN BASIN OR STRUCTURE? YES NO
- G. IS SOIL EROSION PRESENT ALONG STANDING OR MOVING SURFACE WATER? YES NO
- H. IS SOIL EROSION PRESENT AT BASIN SIDES, INLET OR OUTLET? YES NO
- I. ARE HOLES PRESENT FROM ANIMALS OR UNDESIRABLE SOIL LOSS? YES NO
- J. ARE WET OR SOGGY AREAS PRESENT THAT PREVENT DESIRED VEGETATION FROM GROWING? YES NO
- K. IS RUNOFF ENTERING OR LEAVING THE BASIN OR STRUCTURE IN A MANNER THAT PREVENTS PROPER FUNCTION OF ITS INFLOW OR OUTFLOW SYSTEMS? YES NO
- L. DOES FLOW OUT OF BASIN OR STRUCTURE OCCUR IN A MANNER THAT CREATES EROSION OR DAMAGE TO ADJACENT PROPERTY? YES NO
- M. ARE THE BASIN OR STRUCTURE FUNCTIONS IMPAIRED? YES NO
- N. OTHER ITEMS AND COMMENTS:
- O. CORRECTIVE MEASURES FOR ALL YES ANSWERS ABOVE: Debris has accumulated at the bottom of basin "A" and should be collected and properly disposed of. Also, the exposed filter fabric and soil near the curb inlets for basin "B" should be covered with additional rip rap.

* PLEASE PROVIDE PHOTOGRAPHS OF ALL COMPONENTS OF THE BASIN *
THESE SHALL BE IN .JPG FORMAT ON A CD

- A. ASSESSMENT OF ANY PIPE, RIPRAP AND STRUCTURES PRESENT:
(i.e. IS THERE A NEED FOR REPLACEMENT OR MAINTENANCE OF BASIN OR STRUCTURE COMPONENTS?)
Basin components appear to be functioning properly. However, additional rip rap should be installed to cover the exposed filter fabric and soil near the curb inlets of basin "B".

B. **GENERAL ASSESSMENT OF THE BASIN OR STRUCTURE:**
(i.e. DOES THE BASIN OR STRUCTURE APPEAR TO FUNCTION PROPERLY? MODIFICATIONS RECOMMENDED FOR IMPROVED FUNCTION?) _____

The basin appears to be functioning properly.

C. **PRINCIPAL SPILLWAY, EMERGENCY SPILLWAY, EMBANKMENT, FLOWWAYS, SAFETY FEATURES**
(ACCESS EASEMENTS & AQUATIC PLANTS – ARE THESE FEATURES FUNCTIONING PROPERLY?)

Retention basins are easily accessible & all plant material seems to be doing well. However, the roots for some of the plants are visible for basin "A". Additional mulch should be used to cover the exposed roots.

D. **ASSESSMENT OF BASIN OR STRUCTURE ELEVATIONS:**
(i.e. ARE CRITICAL INFLOW, OUTFLOW, OVERFLOW PATHS AND ELEVATIONS UNCHANGED FROM THE AS-BUILT PLANS?)
(NOTE: THE ELEVATION REASONABLENESS CHECK IS INTENDED TO BE A VISUAL CHECK FOR LARGE SETTLEMENT, CHANNEL EROSION, OR BASIN MODIFICATIONS, AND NOT A REQUIREMENT FOR A SURVEY.)

All elevations appear to be according to plan.

E. **ASSESSMENT OF BASIN OR STRUCTURE VOLUMES:**
(i.e. IS THERE EVIDENCE OF BASIN CHANGES AFFECTING THE STORAGE VOLUME FROM THAT SHOWN ON THE AS-BUILT PLANS?)
(NOTE: THE VOLUME REASONABLENESS CHECK IS INTENDED TO BE A VISUAL CHECK FOR LARGE ACCUMULATIONS OF SEDIMENT OR BASIN MODIFICATIONS AND NOT A REQUIREMENT FOR A SURVEY.)

All volumes appear to be according to plan.

F. **ARE THERE ANY OBSTRUCTIONS TO ACCESS EASEMENTS?** No

G. **OTHER ITEMS AND COMMENTS:**

H. **CORRECTIVE MEASURES NEEDED:**
Debris has accumulated at the bottom of basin "A" and should be collected and properly disposed of to keep the basin functioning as designed. Additional rip rap should be installed to cover the exposed filter fabric and soil near the curb inlets of basin "B". Also, the exposed plant roots found in basin "A" should be covered with additional mulch.

(ATTACH ADDITIONAL PAGES IF NEEDED TO PROPERLY DOCUMENT INSPECTION ABOVE.)

INSPECTIONS: IF THE STRUCTURE HAS AN ODNR DIV. OF WATER PERMIT, THE STRUCTURE SHALL BE INSPECTED BY A PROFESSIONAL ENGINEER LICENSED IN THE STATE OF OHIO. ALL OTHER BASINS CAN BE INSPECTED BY A PROFESSIONAL ENGINEER, LOCAL SOIL & WATER CONSERVATION DISTRICT, CERTIFIED PROFESSIONAL IN EROSION AND SEDIMENT CONTROL, OR A LANDSCAPE ARCHITECT.

THE INFORMATION PROVIDED IN THIS INSPECTION FORM IS AN ACCURATE AND CURRENT DESCRIPTION OF THE BASIN OR STRUCTURE AT THIS ADDRESS:

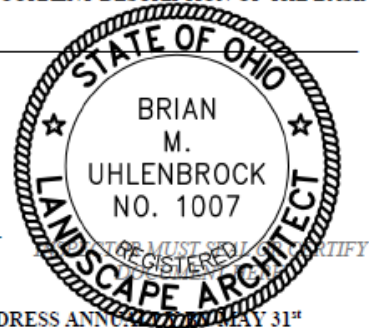
33 Seminary St., Berea, Ohio 44017

B. M. Uhlenbrock
SIGNATURE OF PERSON COMPLETING THIS FORM

6/22/2018
DATE

FIRM: Neff & Associates

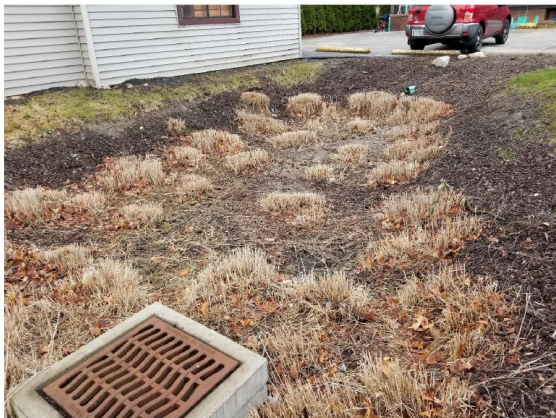
ADDRESS: 6405 York Road, Parma Heights, Ohio 44130

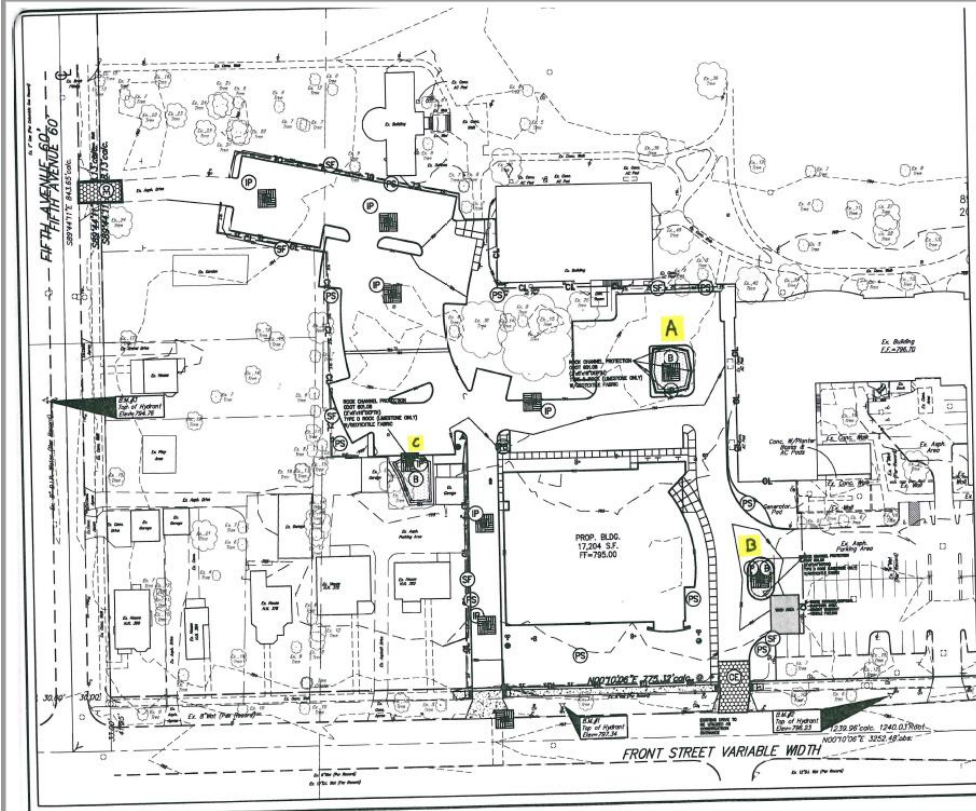


THIS INSPECTION FORM MUST BE RETURNED TO THE FOLLOWING ADDRESS ANNUALLY BY MAY 31st

CITY OF BEREA ENGINEERING DEPARTMENT
11 BEREA COMMONS, BEREА, OHIO 44017
PHONE: 440/826-5814







- NOTES:
1. Permanent seed is to be placed from the edge of pavement, on all landscaped areas, on all sidewalk islands, on all drainage areas, and on all unobstructed areas not being retained by building, paving, etc. conditions. Temporary seed is to be placed on all landscaped areas. Seed areas shall be watered immediately after installation. Turfgrass shall be 50 feet or more from any street or natural stream and be seeded within 48 hours of installing final grade.
 2. The contractor shall maintain all of these as necessary and as required during the duration of construction and or retained during the duration of construction.
 3. Refer to sheets C.2.1 to all construction site details.

LEGEND

CL-CL	CONSTRUCTION LIMITS
(A)	CONSTRUCTION AREA
(B)	ROCK DUCTILE PROTECTION
(C)	WET FORCE
(D)	STEEL BEAM W/LET PROTECTION
(E)	CONSTRUCTION ENTRANCE
(F)	PERMANENT SEEDING
(G)	SEEDING
(H)	PROP. F. CONTOUR
(I)	PROP. F. CONTOUR

BLAISE BUILDING - BALDWIN WALLACE COLLEGE - CENTER FOR INNOVATION AND GROWTH
STORM WATER POLLUTION PREVENTION PLAN
 CITY OF BEREA COUNTY OF CUYAHOGA STATE OF OHIO

NEFF
 A. S. NEFF, INC.
 10000 W. 12TH AVE., SUITE 100
 BEREA, OHIO 44004

SHEET NO.
C.2.3



Storm Water Detention/Retention Structures – Annual Inspection Form

(RETURN CHECKLIST WITHIN 30 DAYS OF MAY 1ST DUE DATE ANNUALLY)

If you have any questions regarding this checklist, please call the City of Berea Engineering Dept. at 440/826-5814.

Basin/Property Owner: Baldwin Wallace College

Basin/Structure Maintainer (usually owner): Baldwin Wallace College

Basin/Property Address: 115 Tressel Street, Berea, Ohio 44017 (BW Welcome Center)

Phone Number of Owner and Maintainer: 440-826-2233

Basin/Structure Type (circle choice or write in below):
 Rain Garden/Bioretenion; Wet Detention; Dry Detention; Other: _____

Inspection Date: April 4, 2018

ANNUAL INSPECTION ITEMS

Circle "Yes" or "No" for all items below

- | | | | |
|----|--|--------------------------------------|-------------------------------------|
| A. | HAS DEBRIS OR TRASH ACCUMULATED IN BASIN OR STRUCTURE? | <input checked="" type="radio"/> YES | <input type="radio"/> NO |
| B. | ARE NOXIOUS WEEDS PRESENT ? | <input type="radio"/> YES | <input checked="" type="radio"/> NO |
| C. | IS THERE EXPOSED SOIL NOT COVERED WITH VEGETATION, MULCH OR OTHER NON-ERODABLE MATERIAL? | <input type="radio"/> YES | <input checked="" type="radio"/> NO |
| D. | IS ALGAE OR STAGNANT MOISTURE PRESENT IN BASIN OR STRUCTURE? | <input type="radio"/> YES | <input checked="" type="radio"/> NO |
| E. | ARE UNPLEASANT ODORS EMERGING FROM BASIN OR STRUCTURE? | <input type="radio"/> YES | <input checked="" type="radio"/> NO |
| F. | HAS SEDIMENT ACCUMULATED IN BASIN OR STRUCTURE? | <input type="radio"/> YES | <input checked="" type="radio"/> NO |
| G. | IS SOIL EROSION PRESENT ALONG STANDING OR MOVING SURFACE WATER? | <input type="radio"/> YES | <input checked="" type="radio"/> NO |
| H. | IS SOIL EROSION PRESENT AT BASIN SIDES, INLET OR OUTLET? | <input checked="" type="radio"/> YES | <input type="radio"/> NO |
| I. | ARE HOLES PRESENT FROM ANIMALS OR UNDESIRABLE SOIL LOSS? | <input type="radio"/> YES | <input checked="" type="radio"/> NO |
| J. | ARE WET OR SOGGY AREAS PRESENT THAT PREVENT DESIRED VEGETATION FROM GROWING? | <input type="radio"/> YES | <input checked="" type="radio"/> NO |
| K. | IS RUNOFF ENTERING OR LEAVING THE BASIN OR STRUCTURE IN A MANNER THAT PREVENTS PROPER FUNCTION OF ITS INFLOW OR OUTFLOW SYSTEMS? | <input type="radio"/> YES | <input checked="" type="radio"/> NO |
| L. | DOES FLOW OUT OF BASIN OR STRUCTURE OCCUR IN A MANNER THAT CREATES EROSION OR DAMAGE TO ADJACENT PROPERTY? | <input type="radio"/> YES | <input checked="" type="radio"/> NO |
| M. | ARE THE BASIN OR STRUCTURE FUNCTIONS IMPAIRED? | <input type="radio"/> YES | <input checked="" type="radio"/> NO |
| N. | OTHER ITEMS AND COMMENTS: _____ | | |
| O. | CORRECTIVE MEASURES FOR ALL YES ANSWERS ABOVE: <u>Additional mulch should be added to the sides of the basin and raked to minimize the amount of voids within the soil. The catch basin structure should be checked periodically and any debris or trash that has accumulated within the catch basin should be properly disposed of. Inlet pipes to the basin should remain clear (mulch piled in front of one inlet to basin)</u> | | |

* PLEASE PROVIDE PHOTOGRAPHS OF ALL COMPONENTS OF THE BASIN *
 THESE SHALL BE IN .JPG FORMAT ON A CD

- A. **ASSESSMENT OF ANY PIPE, RIPRAP AND STRUCTURES PRESENT:**
 (i.e. IS THERE A NEED FOR REPLACEMENT OR MAINTENANCE OF BASIN OR STRUCTURE COMPONENTS?)
- All basin components are in good working condition. However, the two inlet pipes located at the north end of the basin are filling up with debris and should be cleaned out on a periodic basis.

B. **GENERAL ASSESSMENT OF THE BASIN OR STRUCTURE:**
(i.e. DOES THE BASIN OR STRUCTURE APPEAR TO FUNCTION PROPERLY? MODIFICATIONS RECOMMENDED FOR IMPROVED FUNCTION?) _____

Bioretention basin appears to be functioning properly.

C. **PRINCIPAL SPILLWAY, EMERGENCY SPILLWAY, EMBANKMENT, FLOWWAYS, SAFETY FEATURES**
(ACCESS EASEMENTS & AQUATIC PLANTS – ARE THESE FEATURES FUNCTIONING PROPERLY?) _____

Bioretention basin is easily accessible and all plant material is established.

D. **ASSESSMENT OF BASIN OR STRUCTURE ELEVATIONS:**
(i.e. ARE CRITICAL INFLOW, OUTFLOW, OVERFLOW PATHS AND ELEVATIONS UNCHANGED FROM THE AS-BUILT PLANS?)
(NOTE: THE ELEVATION REASONABLENESS CHECK IS INTENDED TO BE A VISUAL CHECK FOR LARGE SETTLEMENT, CHANNEL EROSION, OR BASIN MODIFICATIONS, AND NOT A REQUIREMENT FOR A SURVEY.)

All elevations appear to be as planned.

E. **ASSESSMENT OF BASIN OR STRUCTURE VOLUMES:**
(i.e. IS THERE EVIDENCE OF BASIN CHANGES AFFECTING THE STORAGE VOLUME FROM THAT SHOWN ON THE AS-BUILT PLANS?)
(NOTE: THE VOLUME REASONABLENESS CHECK IS INTENDED TO BE A VISUAL CHECK FOR LARGE ACCUMULATIONS OF SEDIMENT OR BASIN MODIFICATIONS AND NOT A REQUIREMENT FOR A SURVEY.)

Basin / structure volumes appear to be as planned.

F. **ARE THERE ANY OBSTRUCTIONS TO ACCESS EASEMENTS?** No

G. **OTHER ITEMS AND COMMENTS:** _____

H. **CORRECTIVE MEASURES NEEDED:**
Signs of erosion are visible along the sides of the basin. Additional mulch should be added to the sides of the basin and raked to minimize the amount of voids within the soil. Also, the two inlet pipes located at the north end of the basin should be cleaned out on a periodic basis.

(ATTACH ADDITIONAL PAGES IF NEEDED TO PROPERLY DOCUMENT INSPECTION ABOVE.)

INSPECTIONS: IF THE STRUCTURE HAS AN ODNR DIV. OF WATER PERMIT, THE STRUCTURE SHALL BE INSPECTED BY A PROFESSIONAL ENGINEER LICENSED IN THE STATE OF OHIO. ALL OTHER BASINS CAN BE INSPECTED BY A PROFESSIONAL ENGINEER, LOCAL SOIL & WATER CONSERVATION DISTRICT, CERTIFIED PROFESSIONAL IN EROSION AND SEDIMENT CONTROL, OR A LANDSCAPE ARCHITECT.

THE INFORMATION PROVIDED IN THIS INSPECTION FORM IS AN ACCURATE AND CURRENT DESCRIPTION OF THE BASIN OR STRUCTURE AT THIS ADDRESS:

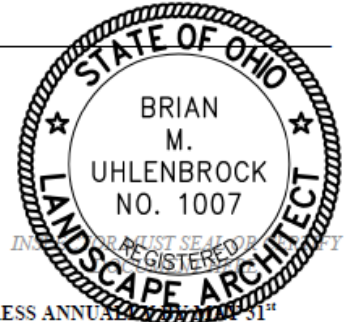
115 Tressel St., Berea, Ohio 44017

B. M. Uhlenbrock
SIGNATURE OF PERSON COMPLETING THIS FORM

6/22/2018
DATE

FIRM: Neff & Associates, Inc.

ADDRESS: 6405 York Road, Parma Heights, Ohio



THIS INSPECTION FORM MUST BE RETURNED TO THE FOLLOWING ADDRESS ANNUALLY BY MAY 31"

CITY OF BEREA ENGINEERING DEPARTMENT
11 BEREA COMMONS, BEREA, OHIO 44017
PHONE: 440/826-5814





Storm Water Detention/Retention Structures – Annual Inspection Form

(RETURN CHECKLIST WITHIN 30 DAYS OF MAY 1st DUE DATE ANNUALLY)

If you have any questions regarding this checklist, please call the City of Berea Engineering Dept. at 440/826-5814.

Basin/Property Owner: Baldwin Wallace College

Basin/Structure Maintainer (usually owner): Baldwin Wallace College

Basin/Property Address: 104 E. Bridge St., Berea, Ohio 44017 (E. Bridge St. Parking Lot)

Phone Number of Owner and Maintainer: 440-826-2233

Basin/Structure Type (circle choice or write in below):
Rain Garden/Bioretenion Wet Detention; Dry Detention; Other: _____

Inspection Date: April 4, 2018

ANNUAL INSPECTION ITEMS

Circle "Yes" or "No" for all items below

- A. HAS DEBRIS OR TRASH ACCUMULATED IN BASIN OR STRUCTURE? YES NO
- B. ARE NOXIOUS WEEDS PRESENT ? YES NO
- C. IS THERE EXPOSED SOIL NOT COVERED WITH VEGETATION, MULCH OR OTHER NON-ERODABLE MATERIAL? YES NO
- D. IS ALGAE OR STAGNANT MOISTURE PRESENT IN BASIN OR STRUCTURE? YES NO
- E. ARE UNPLEASANT ODORS EMERGING FROM BASIN OR STRUCTURE? YES NO
- F. HAS SEDIMENT ACCUMULATED IN BASIN OR STRUCTURE? YES NO
- G. IS SOIL EROSION PRESENT ALONG STANDING OR MOVING SURFACE WATER? YES NO
- H. IS SOIL EROSION PRESENT AT BASIN SIDES, INLET OR OUTLET? YES NO
- I. ARE HOLES PRESENT FROM ANIMALS OR UNDESIRABLE SOIL LOSS? YES NO
- J. ARE WET OR SOGGY AREAS PRESENT THAT PREVENT DESIRED VEGETATION FROM GROWING? YES NO
- K. IS RUNOFF ENTERING OR LEAVING THE BASIN OR STRUCTURE IN A MANNER THAT PREVENTS PROPER FUNCTION OF ITS INFLOW OR OUTFLOW SYSTEMS? YES NO
- L. DOES FLOW OUT OF BASIN OR STRUCTURE OCCUR IN A MANNER THAT CREATES EROSION OR DAMAGE TO ADJACENT PROPERTY? YES NO
- M. ARE THE BASIN OR STRUCTURE FUNCTIONS IMPAIRED? YES NO
- N. OTHER ITEMS AND COMMENTS: Elevation a bit high (see note).
- O. CORRECTIVE MEASURES FOR ALL YES ANSWERS ABOVE: Catch basins should be checked periodically and cleaned out if debris, trash, or sediment has accumulated within the structure. Also, debris and trash should be removed from the bottom of the each basin on a periodic basis.

* PLEASE PROVIDE PHOTOGRAPHS OF ALL COMPONENTS OF THE BASIN *
THESE SHALL BE IN .JPG FORMAT ON A CD

- A. ASSESSMENT OF ANY PIPE, RIPRAP AND STRUCTURES PRESENT:
(i.e. IS THERE A NEED FOR REPLACEMENT OR MAINTENANCE OF BASIN OR STRUCTURE COMPONENTS?)
In some cases, the rip rap has been displaced and should be repositioned near the inlet opening to prevent erosion.

- B. GENERAL ASSESSMENT OF THE BASIN OR STRUCTURE:**
(i.e. DOES THE BASIN OR STRUCTURE APPEAR TO FUNCTION PROPERLY? MODIFICATIONS RECOMMENDED FOR IMPROVED FUNCTION?) All of the basins appear to be functioning properly. It is recommended that all catch basins for each basin be cleaned out. Also, it is recommended to remove the debris that has accumulated at the bottom of basins B1 and B3.
- C. PRINCIPAL SPILLWAY, EMERGENCY SPILLWAY, EMBANKMENT, FLOWWAYS, SAFETY FEATURES (ACCESS EASEMENTS & AQUATIC PLANTS – ARE THESE FEATURES FUNCTIONING PROPERLY?)**
All basins are easily accessible and plant material is doing well.
- D. ASSESSMENT OF BASIN OR STRUCTURE ELEVATIONS:**
(i.e. ARE CRITICAL INFLOW, OUTFLOW, OVERFLOW PATHS AND ELEVATIONS UNCHANGED FROM THE AS-BUILT PLANS?)
(NOTE: THE ELEVATION REASONABLENESS CHECK IS INTENDED TO BE A VISUAL CHECK FOR LARGE SETTLEMENT, CHANNEL EROSION, OR BASIN MODIFICATIONS, AND NOT A REQUIREMENT FOR A SURVEY.)
Bottom elevation of bioretention area B1 appears high near catch basin (see photos and plan details).
Further investigation needed.
- E. ASSESSMENT OF BASIN OR STRUCTURE VOLUMES:**
(i.e. IS THERE EVIDENCE OF BASIN CHANGES AFFECTING THE STORAGE VOLUME FROM THAT SHOWN ON THE AS-BUILT PLANS?)
(NOTE: THE VOLUME REASONABLENESS CHECK IS INTENDED TO BE A VISUAL CHECK FOR LARGE ACCUMULATIONS OF SEDIMENT OR BASIN MODIFICATIONS AND NOT A REQUIREMENT FOR A SURVEY.)
The storage volume may be affected due to the finished elevation being too high for basin B1.
- F. ARE THERE ANY OBSTRUCTIONS TO ACCESS EASEMENTS?** No
- G. OTHER ITEMS AND COMMENTS:**

- H. CORRECTIVE MEASURES NEEDED:**
Bottom elevation may need to be corrected in order for the basin to function properly. Also, at some curb inlets the rip rap has been displaced and should be repositioned near the inlet opening to prevent erosion.

(ATTACH ADDITIONAL PAGES IF NEEDED TO PROPERLY DOCUMENT INSPECTION ABOVE.)

INSPECTIONS: IF THE STRUCTURE HAS AN ODNR DIV. OF WATER PERMIT, THE STRUCTURE SHALL BE INSPECTED BY A PROFESSIONAL ENGINEER LICENSED IN THE STATE OF OHIO. ALL OTHER BASINS CAN BE INSPECTED BY A PROFESSIONAL ENGINEER, LOCAL SOIL & WATER CONSERVATION DISTRICT, CERTIFIED PROFESSIONAL IN EROSION AND SEDIMENT CONTROL, OR A LANDSCAPE ARCHITECT.

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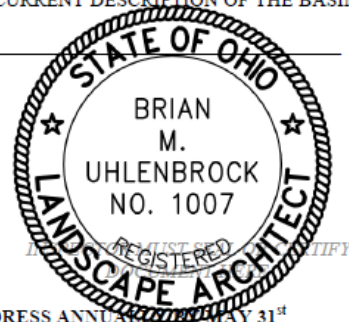
104 E. Bridge St., Berea, Ohio 44017

B. N. Uhlenbrock
SIGNATURE OF PERSON COMPLETING THIS FORM

6/22/2018
DATE

FIRM: Neff & Associates, Inc.

ADDRESS: 6405 York Road, Parma Heights, Ohio



THIS INSPECTION FORM MUST BE RETURNED TO THE FOLLOWING ADDRESS ANNUALLY BY MAY 31st

CITY OF BEREA ENGINEERING DEPARTMENT
11 BEREA COMMONS, BEREA, OHIO 44017
PHONE: 440/826-5814



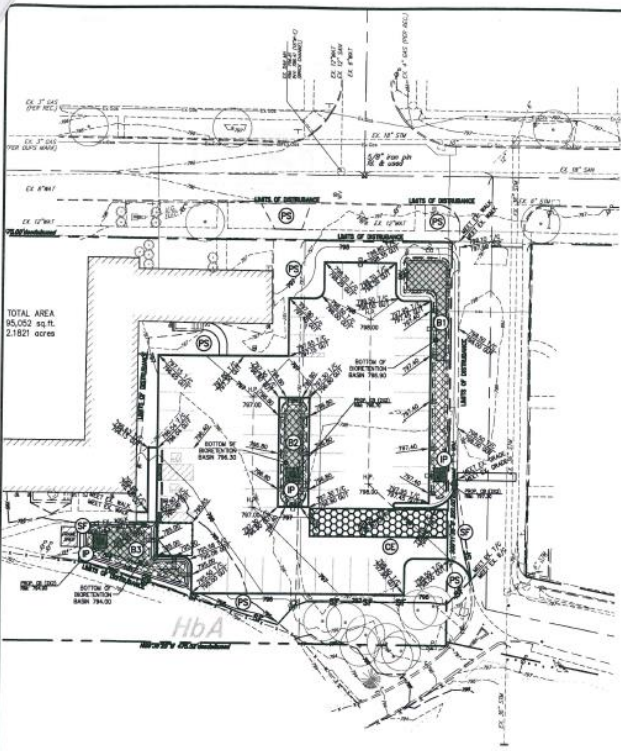












LEGEND

	CONSTRUCTION AREA
	EXISTING AREA (20)
	PARKING AREA (20)
	SALT FENCE
	STORM DRAIN INLET PROTECTION
	CONSTRUCTION ENTRANCE
	PAYMENT READING
	10' CONTOUR
	5' CONTOUR
	1' CONTOUR
	LEVEL OF INTERFERENCE

All Units
N&A - Existing urban land complete, nearby land

REV NO.	DATE	DESCRIPTION
1	01/14/2011	ISSUE FOR PERMIT & RED LINES
2	01/14/2011	TRAINING COURSEWORK
3	01/14/2011	CONSTRUCTION

BALDWIN WALLACE COLLEGE - E BRIDGE ST. PARKING LOT
SWPPP - SITE PLAN
 CITY OF BEREA, COLUMBIANA COUNTY, STATE OF OHIO

SHEET NO.
C2.3



Storm Water Detention/Retention Structures – Annual Inspection Form

(RETURN CHECKLIST WITHIN 30 DAYS OF MAY 1st DUE DATE ANNUALLY)

If you have any questions regarding this checklist, please call the City of Berea Engineering Dept. at 440/826-5814.

Basin/Property Owner: Baldwin Wallace College

Basin/Structure Maintainer (usually owner): Baldwin Wallace College

Basin/Property Address: 139 Tressel Street, Berea, Ohio 44017 (MCS Parking Lot)

Phone Number of Owner and Maintainer: 440-826-2233

Basin/Structure Type (circle choice or write in below):
 Rain Garden/Bioretenion Wet Detention; Dry Detention; Other: _____

Inspection Date: April 4, 2018

ANNUAL INSPECTION ITEMS

Circle "Yes" or "No" for all items below

- A. HAS DEBRIS OR TRASH ACCUMULATED IN BASIN OR STRUCTURE? YES NO
 - B. ARE NOXIOUS WEEDS PRESENT ? YES NO
 - C. IS THERE EXPOSED SOIL NOT COVERED WITH VEGETATION, MULCH OR OTHER NON-ERODABLE MATERIAL? YES NO
 - D. IS ALGAE OR STAGNANT MOISTURE PRESENT IN BASIN OR STRUCTURE? YES NO
 - E. ARE UNPLEASANT ODORS EMERGING FROM BASIN OR STRUCTURE? YES NO
 - F. HAS SEDIMENT ACCUMULATED IN BASIN OR STRUCTURE? YES NO
 - G. IS SOIL EROSION PRESENT ALONG STANDING OR MOVING SURFACE WATER? YES NO
 - H. IS SOIL EROSION PRESENT AT BASIN SIDES, INLET OR OUTLET? YES NO
 - I. ARE HOLES PRESENT FROM ANIMALS OR UNDESIRABLE SOIL LOSS? YES NO
 - J. ARE WET OR SOGGY AREAS PRESENT THAT PREVENT DESIRED VEGETATION FROM GROWING? YES NO
 - K. IS RUNOFF ENTERING OR LEAVING THE BASIN OR STRUCTURE IN A MANNER THAT PREVENTS PROPER FUNCTION OF ITS INFLOW OR OUTFLOW SYSTEMS? YES NO
 - L. DOES FLOW OUT OF BASIN OR STRUCTURE OCCUR IN A MANNER THAT CREATES EROSION OR DAMAGE TO ADJACENT PROPERTY? YES NO
 - M. ARE THE BASIN OR STRUCTURE FUNCTIONS IMPAIRED? YES NO
 - N. OTHER ITEMS AND COMMENTS: _____
 - O. CORRECTIVE MEASURES FOR ALL YES ANSWERS ABOVE: Catch basins should be checked periodically and cleaned out if debris or trash has accumulated within these structures. Likewise, debris or trash that has accumulated at the basin bottom should be collected and properly disposed of. Damaged curb inlets have increased the size of the inlet openings which has caused the soil in these areas to be susceptible to erosion. Additional rip rap is recommended to prevent the soil from eroding at these curb inlets. Also, additional rip rap should be installed at several curb inlets to cover exposed filter fabric
- * PLEASE PROVIDE PHOTOGRAPHS OF ALL COMPONENTS OF THE BASIN * and soil in order to prevent further erosion.
 THESE SHALL BE IN .JPG FORMAT ON A CD
- A. ASSESSMENT OF ANY PIPE, RIPRAP AND STRUCTURES PRESENT:
 (i.e. IS THERE A NEED FOR REPLACEMENT OR MAINTENANCE OF BASIN OR STRUCTURE COMPONENTS?
Damaged curb inlets were observed at basins B1 and B3. Additional rip rap should be installed since more of the soil is now susceptible to erosion due to the increase in size of the inlet openings. At some of the curb inlets, the rip rap has been displaced and should be repositioned near the inlet opening to prevent erosion for basins B1, B3, and B4. Additional rip rap should be installed to cover the exposed filter fabric and the exposed soil where erosion has been observed for basins B1 and B3.

B. **GENERAL ASSESSMENT OF THE BASIN OR STRUCTURE:**
(i.e. DOES THE BASIN OR STRUCTURE APPEAR TO FUNCTION PROPERLY? MODIFICATIONS RECOMMENDED FOR IMPROVED FUNCTION?) All of the basins appear to be functioning properly. It is recommended that the debris and trash which has accumulated at the bottom of basin B2 be collected and properly disposed of. Also, it is recommended that the outlet structure on the west side of basin B1 and the outlet structure on the east side of basin B3 be cleaned out.

C. **PRINCIPAL SPILLWAY, EMERGENCY SPILLWAY, EMBANKMENT, FLOWWAYS, SAFETY FEATURES**
(ACCESS EASEMENTS & AQUATIC PLANTS - ARE THESE FEATURES FUNCTIONING PROPERLY?)
Bioretention basins are easily accessible and plant material is doing well.

D. **ASSESSMENT OF BASIN OR STRUCTURE ELEVATIONS:**
(i.e. ARE CRITICAL INFLOW, OUTFLOW, OVERFLOW PATHS AND ELEVATIONS UNCHANGED FROM THE AS-BUILT PLANS?)
(NOTE: THE ELEVATION REASONABLENESS CHECK IS INTENDED TO BE A VISUAL CHECK FOR LARGE SETTLEMENT, CHANNEL EROSION, OR BASIN MODIFICATIONS, AND NOT A REQUIREMENT FOR A SURVEY.)
Basin elevations appear to be per plan.

E. **ASSESSMENT OF BASIN OR STRUCTURE VOLUMES:**
(i.e. IS THERE EVIDENCE OF BASIN CHANGES AFFECTING THE STORAGE VOLUME FROM THAT SHOWN ON THE AS-BUILT PLANS?)
(NOTE: THE VOLUME REASONABLENESS CHECK IS INTENDED TO BE A VISUAL CHECK FOR LARGE ACCUMULATIONS OF SEDIMENT OR BASIN MODIFICATIONS AND NOT A REQUIREMENT FOR A SURVEY.)
Basin volumes appear to be per plan.

F. **ARE THERE ANY OBSTRUCTIONS TO ACCESS EASEMENTS?** No

G. **OTHER ITEMS AND COMMENTS:**

H. **CORRECTIVE MEASURES NEEDED:**
Curb inlets that have sustained damage should have additional rip rap installed that covers the entire area of the inlet opening. In addition, for basins B1 and B3, more rip rap should be installed at some of the curb inlets to cover the exposed filter fabric and the exposed soil which has started to erode. Furthermore, at some of the curb inlets, the rip rap has been displaced and should be repositioned near the inlet opening to prevent erosion for basins B1, B3, and B4.
(ATTACH ADDITIONAL PAGES IF NEEDED TO PROPERLY DOCUMENT INSPECTION ABOVE.)

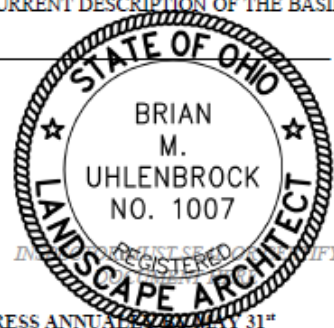
INSPECTIONS: IF THE STRUCTURE HAS AN ODNR DIV. OF WATER PERMIT, THE STRUCTURE SHALL BE INSPECTED BY A PROFESSIONAL ENGINEER LICENSED IN THE STATE OF OHIO. ALL OTHER BASINS CAN BE INSPECTED BY A PROFESSIONAL ENGINEER, LOCAL SOIL & WATER CONSERVATION DISTRICT, CERTIFIED PROFESSIONAL IN EROSION AND SEDIMENT CONTROL, OR A LANDSCAPE ARCHITECT.

THE INFORMATION PROVIDED IN THIS INSPECTION FORM IS AN ACCURATE AND CURRENT DESCRIPTION OF THE BASIN OR STRUCTURE AT THIS ADDRESS: 139 Tressel Street, Berea, Ohio 44017

B. M. Uhlenbrock
SIGNATURE OF PERSON COMPLETING THIS FORM 6/22/2018
DATE

FIRM: Neff & Associates, Inc.

ADDRESS: 6405 York Road, Parma Heights, Ohio



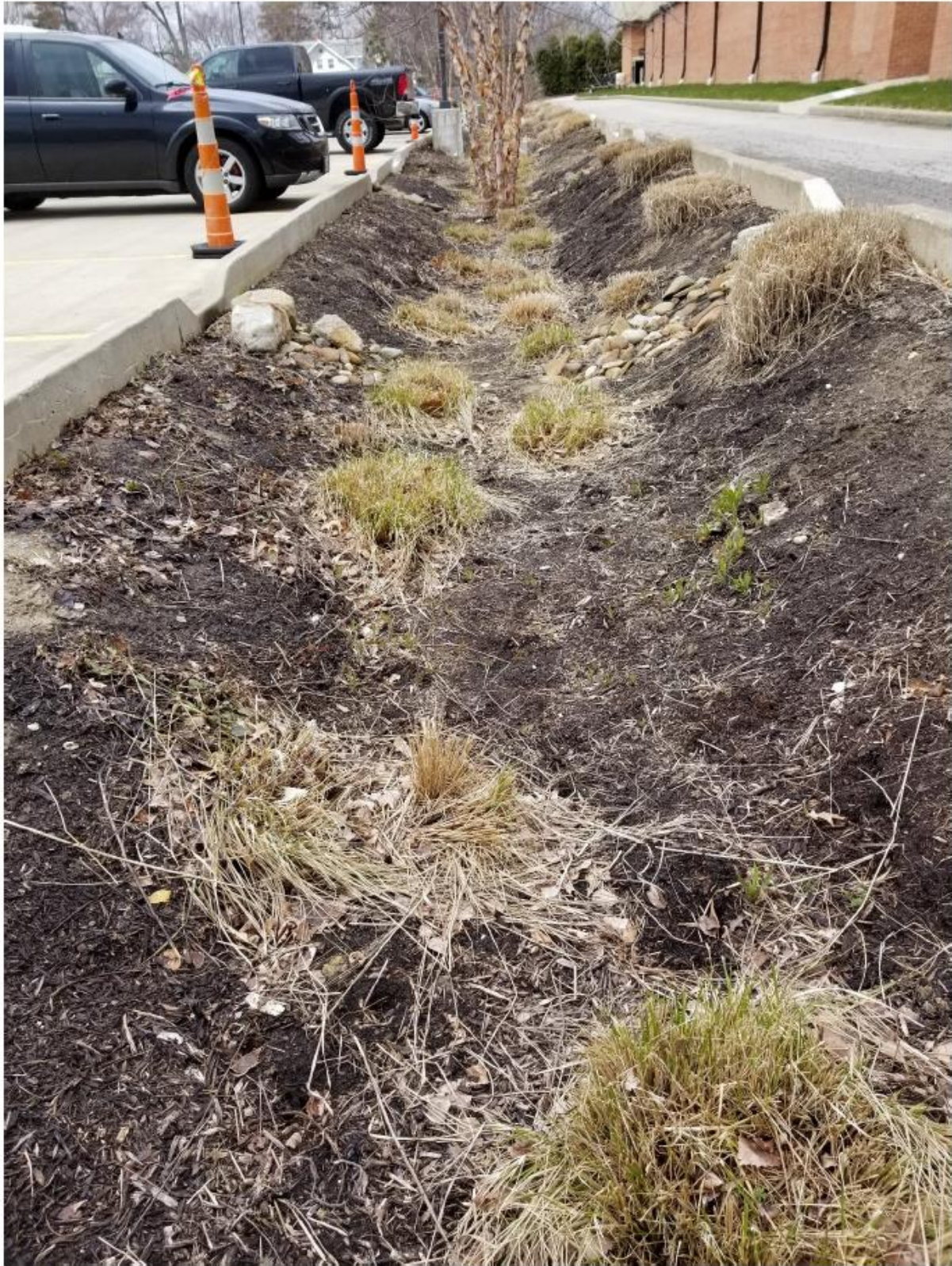
THIS INSPECTION FORM MUST BE RETURNED TO THE FOLLOWING ADDRESS ANNUALLY BY MAY 31"

CITY OF BEREA ENGINEERING DEPARTMENT
11 BEREA COMMONS, BEREA, OHIO 44017
PHONE: 440/826-5814































Bonds Administration Parking Lot

Newly Completed Bioswale Project (Completed 2017)



