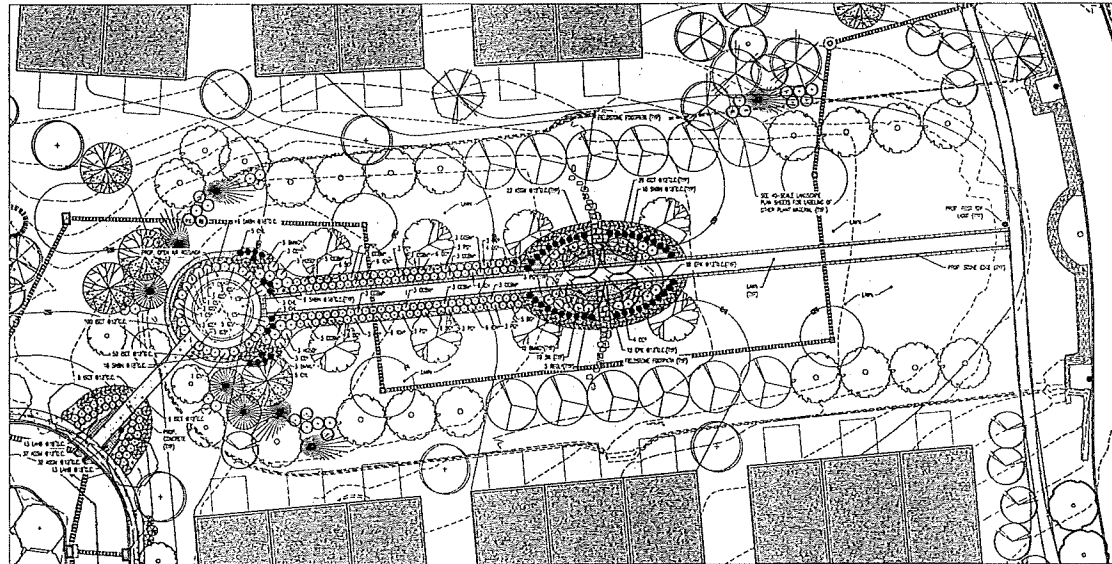


DETAIL L1
SCALE: 1/4\"/>



DETAIL L1
SCALE: 1/4\"/>

GENERAL NOTES

- 1. THE PLAN IS TO BE USED FOR LANDSCAPE PURPOSES ONLY.
- 2. ALL PLANTINGS SHOWN ARE TO BE PLANTED IN ACCORDANCE WITH THE SPECIFICATIONS AND NOTES ON THE DRAWING AND SCHEDULE. PLANTINGS NOT SHOWN ON THE DRAWING ARE TO BE PLANTED IN ACCORDANCE WITH THE SPECIFICATIONS AND NOTES ON THE DRAWING.
- 3. ALL PLANTINGS ARE TO BE PLANTED IN ACCORDANCE WITH THE SPECIFICATIONS AND NOTES ON THE DRAWING.
- 4. ALL PLANTINGS ARE TO BE PLANTED IN ACCORDANCE WITH THE SPECIFICATIONS AND NOTES ON THE DRAWING.
- 5. ALL PLANTINGS ARE TO BE PLANTED IN ACCORDANCE WITH THE SPECIFICATIONS AND NOTES ON THE DRAWING.
- 6. ALL PLANTINGS ARE TO BE PLANTED IN ACCORDANCE WITH THE SPECIFICATIONS AND NOTES ON THE DRAWING.
- 7. ALL PLANTINGS ARE TO BE PLANTED IN ACCORDANCE WITH THE SPECIFICATIONS AND NOTES ON THE DRAWING.
- 8. ALL PLANTINGS ARE TO BE PLANTED IN ACCORDANCE WITH THE SPECIFICATIONS AND NOTES ON THE DRAWING.
- 9. ALL PLANTINGS ARE TO BE PLANTED IN ACCORDANCE WITH THE SPECIFICATIONS AND NOTES ON THE DRAWING.
- 10. ALL PLANTINGS ARE TO BE PLANTED IN ACCORDANCE WITH THE SPECIFICATIONS AND NOTES ON THE DRAWING.

LANDSCAPE SCHEDULE

NO.	DESCRIPTION	PLANT	SIZE	QUANTITY	REMARKS
01	PLANTING
02	PLANTING
03	PLANTING
04	PLANTING
05	PLANTING
06	PLANTING
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08	PLANTING
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98	PLANTING
99	PLANTING
100	PLANTING

BOHLER ENGINEERING
 1600 MAJOR DRIVE, SUITE 200
 DUBLIN, OHIO 43017
 PHONE: 614.885.8100
 FAX: 614.885.8101
 WWW.BOHLENGINEERING.COM

REVISIONS

NO.	DATE	COMMENT	BY
01	01/25/2019	ISSUE FOR CONSTRUCTION	BOH
02	01/25/2019	ISSUE FOR CONSTRUCTION	BOH
03	01/25/2019	ISSUE FOR CONSTRUCTION	BOH
04	01/25/2019	ISSUE FOR CONSTRUCTION	BOH
05	01/25/2019	ISSUE FOR CONSTRUCTION	BOH
06	01/25/2019	ISSUE FOR CONSTRUCTION	BOH
07	01/25/2019	ISSUE FOR CONSTRUCTION	BOH
08	01/25/2019	ISSUE FOR CONSTRUCTION	BOH
09	01/25/2019	ISSUE FOR CONSTRUCTION	BOH
10	01/25/2019	ISSUE FOR CONSTRUCTION	BOH

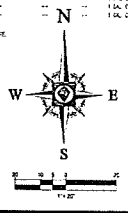
CALL BEFORE YOU DIG!
 Before you dig, call to locate underground utilities. Call 811 or visit 1-800-4-A-DIG.

PROJECT NO. 19010001
 DRAWN BY: JLB
 CHECKED BY: JLB
 DATE: 01/25/2019
 SCALE: AS SHOWN
 CAD: JLB

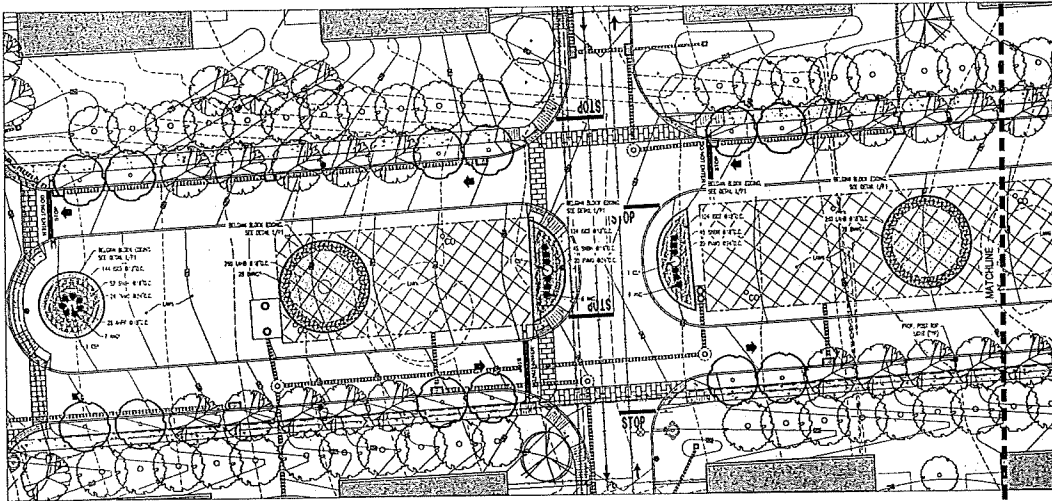
PRELIMINARY/FINAL LAND DEVELOPMENT PLAN
 LINDENWOLD RESIDENTIAL ASSOCIATES, L.L.C.
 THE MATTHEW ESTATES
 761 S. BETHLEHEM PIKE
 UPPER DUBLIN TOWNSHIP
 MONTGOMERY COUNTY, PA

BOHLER ENGINEERING
 1600 MAJOR DRIVE, SUITE 200
 DUBLIN, OHIO 43017
 PHONE: 614.885.8100
 FAX: 614.885.8101
 WWW.BOHLENGINEERING.COM

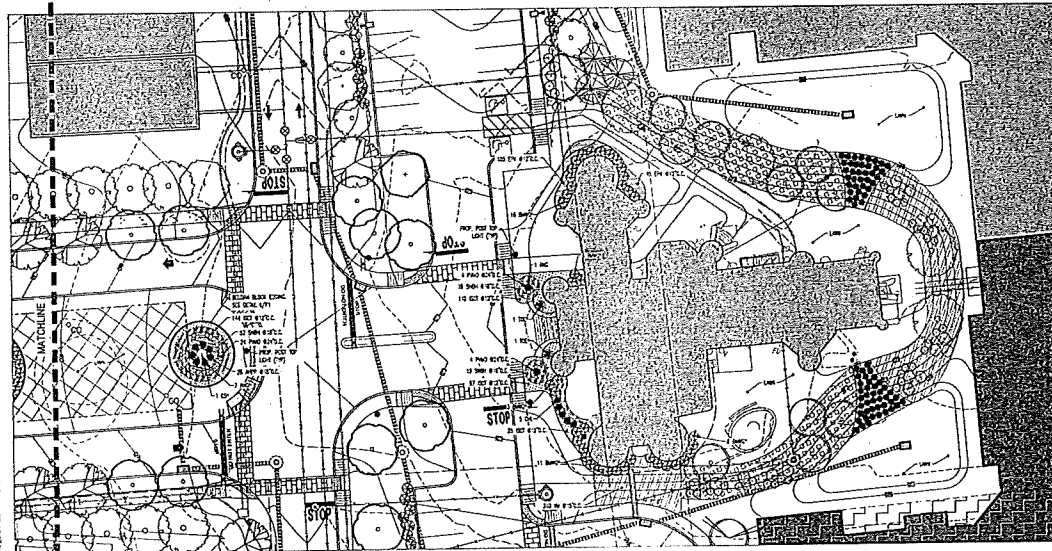
BOHLER ENGINEERING
 SHEET NO. PCS10M LANDSCAPE DETAIL PLANS
 SHEET NUMBER 55
 OF 64
 REVISION 12 - 2018.12.27



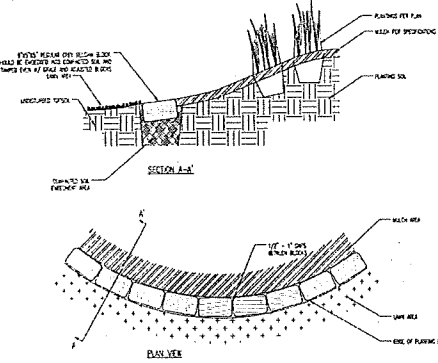
50-10



DETAIL 1.1
SCALE 1/4\"/>



DETAIL 1.1
SCALE 1/4\"/>



BLACK EDGE DETAIL
SCALE 1/2\"/>

GENERAL NOTES

1. SEE PLAN TO BE SURE FOR ANY OTHER NOTES.
2. ALL EXISTING UTILITIES SHALL BE MAINTAINED AND PROTECTED. ANY CHANGES TO UTILITIES SHALL BE APPROVED BY THE APPROPRIATE AGENCIES.
3. ALL EXISTING UTILITIES SHALL BE MAINTAINED AND PROTECTED. ANY CHANGES TO UTILITIES SHALL BE APPROVED BY THE APPROPRIATE AGENCIES.
4. ALL EXISTING UTILITIES SHALL BE MAINTAINED AND PROTECTED. ANY CHANGES TO UTILITIES SHALL BE APPROVED BY THE APPROPRIATE AGENCIES.
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PLN BK 0050-0011
 2/18/2019 10:00:00 AM
 1000 MANOR DRIVE, SUITE 200
 CHALFONTE, PENNSYLVANIA 19114
 PH: 610.896.8100
 FAX: 610.896.8102
 WWW.BOHLENERENGINEERING.COM



50-11

BOHLER ENGINEERING

MONTCO

1800 MANOR DRIVE, SUITE 200
 CHALFONTE, PENNSYLVANIA 19114
 PH: 610.896.8100
 FAX: 610.896.8102
 WWW.BOHLENERENGINEERING.COM

REV	DATE	COMMENTS	BY
01	11/15/17	PER COMMENTS	MMB
02	11/16/17	PER COMMENTS	MMB
03	11/16/17	PER COMMENTS	MMB
04	11/16/17	PER COMMENTS	MMB
05	11/16/17	PER COMMENTS	MMB
06	11/16/17	PER COMMENTS	MMB
07	11/16/17	PER COMMENTS	MMB
08	11/16/17	PER COMMENTS	MMB
09	11/16/17	PER COMMENTS	MMB
10	11/16/17	PER COMMENTS	MMB
11	11/16/17	PER COMMENTS	MMB
12	11/16/17	PER COMMENTS	MMB
13	11/16/17	PER COMMENTS	MMB
14	11/16/17	PER COMMENTS	MMB
15	11/16/17	PER COMMENTS	MMB

CALL BEFORE YOU DIG!

PROJECT NO. PCH18102
 DRAWN BY JAB
 CHECKED BY JAB
 DATE 11/16/17
 SCALE AS SHOWN
 PROJECTING LANDSCAPE

PRELIMINARY/FINAL LAND DEVELOPMENT PLAN
 FOR
LINDENWOLD RESIDENTIAL ASSOCIATES, LLC.
 THE MATTHEWSON ESTATES
 701 S. BETHLEHEM PIKE
 UPPER MERION TOWNSHIP
 MONTGOMERY COUNTY, PA

BOHLER ENGINEERING
 1800 MANOR DRIVE, SUITE 200
 CHALFONTE, PENNSYLVANIA 19114
 PH: 610.896.8100
 FAX: 610.896.8102
 WWW.BOHLENERENGINEERING.COM

DENBORH
 1000 W. 10TH STREET
 DENBORH, PA 19046
 PH: 610.376.1111
 WWW.DENBORH.COM

SHEET NO. **PCSWM LANDSCAPE DETAIL PLANS**
 SHEET NUMBER **56**
 OF 64
 REVISION 12 - 2018 12 27

WOODLAND MANAGEMENT PROCEDURES

THE DESIGNER HAS REVIEWED THE SITE AND HAS CONSIDERED THE EFFECTS OF THE PROPOSED DEVELOPMENT ON THE WOODLAND. THE DESIGNER HAS CONSIDERED THE EFFECTS OF THE PROPOSED DEVELOPMENT ON THE WOODLAND AND HAS CONSIDERED THE EFFECTS OF THE PROPOSED DEVELOPMENT ON THE WOODLAND.

MINIMUM STANDARDS

THE DESIGNER HAS CONSIDERED THE EFFECTS OF THE PROPOSED DEVELOPMENT ON THE WOODLAND AND HAS CONSIDERED THE EFFECTS OF THE PROPOSED DEVELOPMENT ON THE WOODLAND.

WOODLAND MANAGEMENT PROCEDURES

THE DESIGNER HAS CONSIDERED THE EFFECTS OF THE PROPOSED DEVELOPMENT ON THE WOODLAND AND HAS CONSIDERED THE EFFECTS OF THE PROPOSED DEVELOPMENT ON THE WOODLAND.

WOODLAND MANAGEMENT PROCEDURES

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WOODLAND MANAGEMENT PROCEDURES

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THE DESIGNER HAS CONSIDERED THE EFFECTS OF THE PROPOSED DEVELOPMENT ON THE WOODLAND AND HAS CONSIDERED THE EFFECTS OF THE PROPOSED DEVELOPMENT ON THE WOODLAND.

ERNST SEED CO. DEER RESISTANT MEADOW MIX SEEDING SPECIFICATIONS (ERNMX-155)

Table with 2 columns: Item, Quantity. Lists various seed types and their quantities for the Ernst Seed Co. Deer Resistant Meadow Mix Seeding Specifications.

ERNST SEED CO. NORTH EAST ANNUAL & PERENNIAL WILDFLOWER MIX SEEDING SPECIFICATIONS (ERNMX-165)

Table with 2 columns: Item, Quantity. Lists various seed types and their quantities for the Ernst Seed Co. North East Annual & Perennial Wildflower Mix Seeding Specifications.

ERNST SEED CO. SHADED AREA MIX SEEDING SPECIFICATIONS (ERNMX-140)

Table with 2 columns: Item, Quantity. Lists various seed types and their quantities for the Ernst Seed Co. Shaded Area Mix Seeding Specifications.

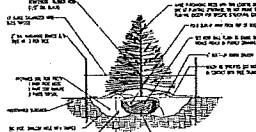
- 1. THE SEEDING SHALL BE DONE BY THE CONTRACTOR IN ACCORDANCE WITH THE SPECIFICATIONS AND STANDARDS OF THE MONTGOMERY COUNTY DEPARTMENT OF PUBLIC WORKS AND ENGINEERING.



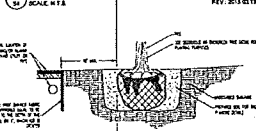
GROUNDCOVER/ANNUAL PLANTING SPACING



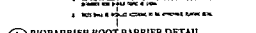
PERENNIAL/GROUNDCOVER PLANTING DETAIL



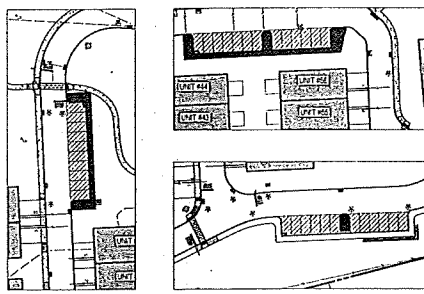
EVERGREEN TREE PLANTING DETAIL



DECIDUOUS TREE PLANTING DETAIL

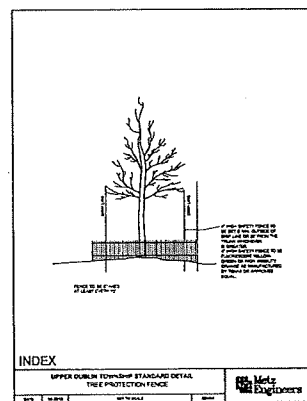
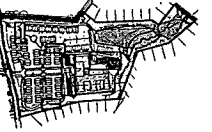


BIO-BARRIER ROOT BARRIER DETAIL

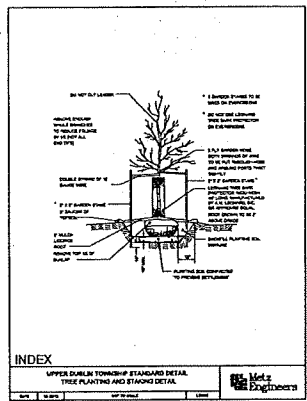


PARKING LOT AREA CALCULATION

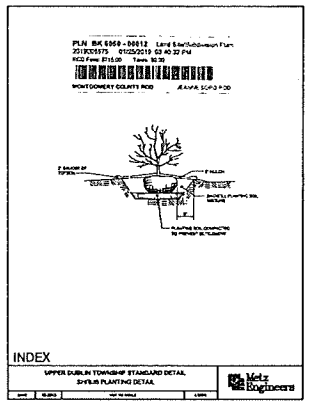
Table with 2 columns: Area, Description. Lists different areas of the parking lot and their descriptions.



INDEX UPPER DUBLIN TOWNSHIP STANDARD DETAIL TREE PLANTING AND STAKING DETAIL



INDEX UPPER DUBLIN TOWNSHIP STANDARD DETAIL TREE PLANTING AND STAKING DETAIL



INDEX UPPER DUBLIN TOWNSHIP STANDARD DETAIL TREE PLANTING AND STAKING DETAIL

BOHLER ENGINEERING logo and contact information including address, phone, and website.

Table with 3 columns: REV, DATE, COMMENT, BY. Lists revision history for the drawing.

CALL BEFORE YOU DIG logo and contact information for PAI.

PROJECT INFORMATION table with fields for project name, location, and dates.

PRELIMINARY/FINAL LAND DEVELOPMENT PLAN FOR LINDEWOLD RESIDENTIAL ASSOCIATES, L.L.C. THE MATTHEW ESTATES.

BOHLER ENGINEERING logo and contact information.

BOHLER ENGINEERING logo and contact information.

PCSWM LANDSCAPE DETAILS logo and contact information.

PCSWM LANDSCAPE DETAILS logo and contact information.

50-12

LANDSCAPE SCHEDULE

Table with columns: ID, QTY, MATERIAL, UNIT, PRICE, and TOTAL. Lists various landscape items like trees, shrubs, and plants with their respective quantities and costs.

LANDSCAPE SPECIFICATIONS

1.0 GENERAL NOTES: This schedule is to be used in conjunction with the landscape plan and specifications. It lists the quantities and prices for the items shown on the plan.

BOHLER ENGINEERING logo and contact information including address, phone, and website.

REVISIONS table with columns: REV, DATE, COMMENT, BY. Lists project revisions.

CALL BEFORE YOU DIG logo and contact information for DAI.

PROJECT INFORMATION table with fields: PROJECT NO., DRAWING NO., DATE, SCALE, CADIST.

PRELIMINARY/FINAL LAND DEVELOPMENT PLAN. LINDENWOLD RESIDENTIAL ASSOCIATES, I.L.C. THE MATTHEW ESTATES. 701 S BETHLEHEM PIKE UPPER DUBLIN TOWNSHIP MONTGOMERY COUNTY, PA.

BOHLER ENGINEERING logo and contact information.

PCSWM LANDSCAPE DETAILS logo and sheet number 58.

PLN BK 0050 - 00011 Land Development Plan 20190219 01020019 01 00 00 PM 01/25/2019 10:58:00 AM

50-13

STANDARD NOTES
1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE APPROPRIATE AGENCIES AND AGENCIES.

GENERAL MAINTENANCE AND INSPECTION NOTES
1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING ALL CONSTRUCTION EQUIPMENT AND TOOLS IN GOOD WORKING ORDER THROUGHOUT THE PROJECT.

GENERAL SUBSURFACE INFILTRATION AND INSTALLATION NOTES
1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR IDENTIFYING ALL EXISTING AND PROPOSED INFILTRATION POINTS AND PROVIDING APPROPRIATE REMEDIATION.

RECYCLING OR DISPOSAL OF MATERIALS (H204)(F01)
1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROPER RECYCLING OR DISPOSAL OF ALL MATERIALS GENERATED DURING CONSTRUCTION.

ANTICIPATED CONSTRUCTION WASTES AND RECYCLING NOTES
1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR IDENTIFYING AND SEPARATING ALL ANTICIPATED CONSTRUCTION WASTES FOR RECYCLING OR DISPOSAL.

POTENTIAL THERMAL IMPACTS TO SURFACE WATERS (H204)(F01)
1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR IDENTIFYING AND MITIGATING ALL POTENTIAL THERMAL IMPACTS TO SURFACE WATERS.

GENERAL PCSWM PLANNING AND DESIGN (H204)(F01)
1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR IMPLEMENTING ALL PCSWM PLANNING AND DESIGN REQUIREMENTS.

TYPES, DEPTH, SLOPE, LOCATIONS AND LIMITATION OF THE SOILS AND GEOTECHNICAL CONDITIONS (H204)(F01)
1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR IDENTIFYING AND ADDRESSING ALL SOIL AND GEOTECHNICAL CONDITIONS.

RECEIVING SURFACE WATERS (H204)(F01)
1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR IDENTIFYING AND ADDRESSING ALL RECEIVING SURFACE WATER CONDITIONS.

GENERAL VEGETATION OF DISTURBED AREA NOTES
1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR IDENTIFYING AND PROTECTING ALL EXISTING VEGETATION AND RESTORING IT TO ORIGINAL OR BETTER CONDITION.

CRITICAL STAGE
1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR IDENTIFYING AND PROTECTING ALL CRITICAL STAGES OF THE PROJECT.

SEQUENCE OF CONSTRUCTION
1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DEVELOPING AND FOLLOWING A DETAILED SEQUENCE OF CONSTRUCTION PLAN.

GENERAL SUBSURFACE INFILTRATION AND INSTALLATION NOTES
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1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR IDENTIFYING AND SEPARATING ALL ANTICIPATED CONSTRUCTION WASTES FOR RECYCLING OR DISPOSAL.

POTENTIAL THERMAL IMPACTS TO SURFACE WATERS (H204)(F01)
1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR IDENTIFYING AND MITIGATING ALL POTENTIAL THERMAL IMPACTS TO SURFACE WATERS.

GENERAL PCSWM PLANNING AND DESIGN (H204)(F01)
1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR IMPLEMENTING ALL PCSWM PLANNING AND DESIGN REQUIREMENTS.

TYPES, DEPTH, SLOPE, LOCATIONS AND LIMITATION OF THE SOILS AND GEOTECHNICAL CONDITIONS (H204)(F01)
1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR IDENTIFYING AND ADDRESSING ALL SOIL AND GEOTECHNICAL CONDITIONS.

GENERAL VEGETATION OF DISTURBED AREA NOTES
1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR IDENTIFYING AND PROTECTING ALL EXISTING VEGETATION AND RESTORING IT TO ORIGINAL OR BETTER CONDITION.

CRITICAL STAGE
1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR IDENTIFYING AND PROTECTING ALL CRITICAL STAGES OF THE PROJECT.

SEQUENCE OF CONSTRUCTION
1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DEVELOPING AND FOLLOWING A DETAILED SEQUENCE OF CONSTRUCTION PLAN.

GENERAL SUBSURFACE INFILTRATION AND INSTALLATION NOTES
1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR IDENTIFYING ALL EXISTING AND PROPOSED INFILTRATION POINTS AND PROVIDING APPROPRIATE REMEDIATION.

RECYCLING OR DISPOSAL OF MATERIALS (H204)(F01)
1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROPER RECYCLING OR DISPOSAL OF ALL MATERIALS GENERATED DURING CONSTRUCTION.

ANTICIPATED CONSTRUCTION WASTES AND RECYCLING NOTES
1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR IDENTIFYING AND SEPARATING ALL ANTICIPATED CONSTRUCTION WASTES FOR RECYCLING OR DISPOSAL.

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1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR IDENTIFYING AND ADDRESSING ALL SOIL AND GEOTECHNICAL CONDITIONS.

BOHLER ENGINEERING logo and contact information.

REVISIONS table with columns for DATE, COMMENT, and BY.

CALL BEFORE YOU DIG logo and text.

PROJECT INFORMATION including location and dates.

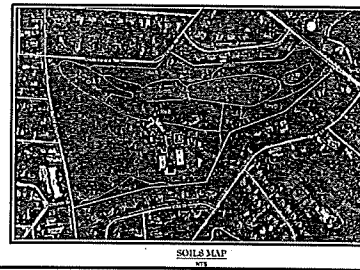
PRELIMINARY/FINAL LAND DEVELOPMENT PLAN text.

LINDENWOLD RESIDENTIAL ASSOCIATES, LLC contact information.

BOHLER ENGINEERING logo and address.

Another BOHLER ENGINEERING logo.

PCSWM NOTES and SHEET NUMBER 76.



STORMTANK® MODULE

NAME	HEIGHT (ft)	CAPACITY (cu ft)	TEST RATIO	NOMINAL WEIGHT (Lbs)
ST-18	18"	8.11 (0.27)	85.0%	22.73 lbs (17)
ST-24	24"	8.95 (0.27)	86.0%	24.30 lbs (17)
ST-30	30"	12.03 (0.37)	85.0%	29.50 lbs (17)
ST-33	33"	11.99 (0.37)	85.0%	29.82 lbs (17.5)
ST-36	36"	13.12 (0.37)	87.00%	33.12 lbs (18)

NOTES:
 1. REFERENCE CURRENT INSTALLATION INSTRUCTIONS FOR PROPER ASSEMBLY AND INSTALLATION PRACTICES.
 2. SIDE PANELS MUST OVERLAP THE JOINTS OF THE INSTALLATION ON ONE SIDE, UNLESS OTHERWISE NOTED.
 3. SIDE PANELS ARE TO BE CUT FROM A SIDE PANEL AT THE FIRE RATED LOCATIONS.

BRENTWOOD®
 STORMTANK®
 MODULE

STORM TANK BASINS

MAXIMUM PIPE DIAMETERS

MODULE	NOMINAL PIPE DIAMETER (IPS)	IPS (IN)
ST-18	18"	18"
ST-24	24"	24"
ST-30	30"	30"
ST-33	30"	30"
ST-36	36"	36"

CATCH BASIN ABUTMENT DETAIL

NOTES:
 1. IF MODULES USED, 1" TO 2" OF EQUIPMENT OR SOFT MATERIAL.
 2. 1/2" MINIMUM VOLUME IN MODULES FOLLOWING STORM.
 3. IF MODULES USED, 1" TO 2" OF EQUIPMENT OR SOFT MATERIAL.
 4. 1/2" MINIMUM VOLUME IN MODULES FOLLOWING STORM.

BRENTWOOD®
 STORMTANK®
 MODULE

INLET/OUTLET PORT INSTALLATION DETAIL

NOTES:
 1. REFERENCE CURRENT INSTALLATION INSTRUCTIONS FOR PROPER INSTALLATION PRACTICES.

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 MODULE

METAL BOX PANELS

NOTES:
 1. REFERENCE CURRENT INSTALLATION INSTRUCTIONS FOR PROPER INSTALLATION PRACTICES.

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03	11-27-2017	PER BOHMER COMMENTS	MMH
04	11-27-2017	PER BOHMER COMMENTS	MMH
05	11-27-2017	PER BOHMER COMMENTS	MMH
06	11-27-2017	PER BOHMER COMMENTS	MMH
07	11-27-2017	PER BOHMER COMMENTS	MMH
08	11-27-2017	PER BOHMER COMMENTS	MMH
09	11-27-2017	PER BOHMER COMMENTS	MMH
10	11-27-2017	PER BOHMER COMMENTS	MMH
11	11-27-2017	PER BOHMER COMMENTS	MMH
12	11-27-2017	PER BOHMER COMMENTS	MMH
13	11-27-2017	PER BOHMER COMMENTS	MMH

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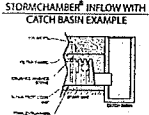
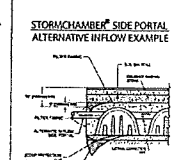
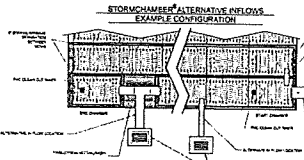
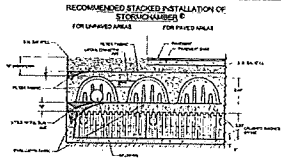
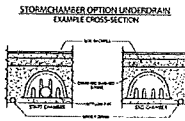
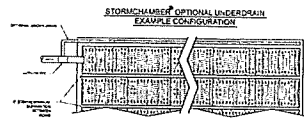
PCSWM DETAILS

SHEET TITLE
 PCSWM DETAILS

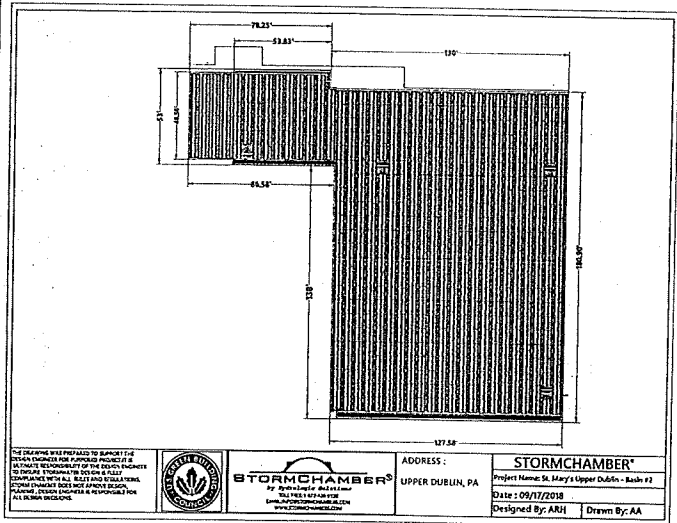
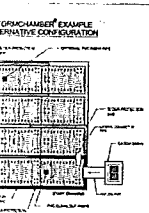
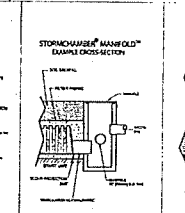
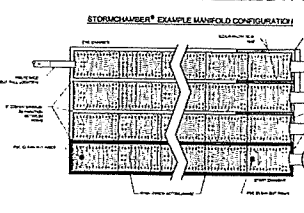
SHEET NUMBER
 77 OF 84

REVISION 12-2018 12-27

50-16



Stormchambers
 Stormchambers are designed to provide a long service life and are constructed from high quality materials. They are designed to be installed in a variety of applications and are available in a range of sizes and configurations. The Stormchamber system is a proven and reliable solution for stormwater management in residential and commercial applications. The Stormchamber system is designed to be installed in a variety of applications and is available in a range of sizes and configurations. The Stormchamber system is a proven and reliable solution for stormwater management in residential and commercial applications.



THE COMPANY WILL BE PREPARED TO SUPPORT THE DESIGN ENGINEER FOR ANY PROJECT IF THE ULTIMATE RESPONSIBILITY OF THE DESIGN ENGINEER TO INSURE, SUPERVISE THE DESIGN IS FULLY ASSUMED BY HIM. ALL DESIGN ERRORS, OMISSIONS, AND/OR INADEQUACIES OF ANY KIND SHALL BE THE RESPONSIBILITY OF THE DESIGN ENGINEER. THE COMPANY IS NOT RESPONSIBLE FOR ALL DESIGN ERRORS.

STORMCHAMBER®
 ADDRESS: UPPER DUBLIN, PA
 Project Name: St. Mary's Upper Dublin - Rdn #2
 Date: 09/17/2018
 Designed By: AJH | Drawn By: AA

BOHLER ENGINEERING
 1500 BROADWAY, SUITE 200
 CHALFONT, PENNSYLVANIA 18914
 Phone: 610-368-9100
 Fax: 610-368-9102
 www.BohlerEngineering.com

REVISIONS

REV.	DATE	COMMENT	BY
01	11/21/2017	PER REVISED COMMENTS	AAH
02	11/22/2017	PER REVISED COMMENTS	AAH
03	12/05/2017	PER REVISED COMMENTS	AAH
04	01/02/2018	PER REVISED COMMENTS	AAH
05	01/02/2018	PER REVISED COMMENTS	AAH
06	01/02/2018	PER REVISED COMMENTS	AAH
07	01/02/2018	PER REVISED COMMENTS	AAH
08	01/02/2018	PER REVISED COMMENTS	AAH
09	01/02/2018	PER REVISED COMMENTS	AAH
10	01/02/2018	PER REVISED COMMENTS	AAH

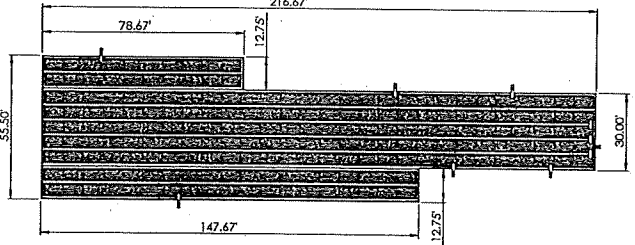
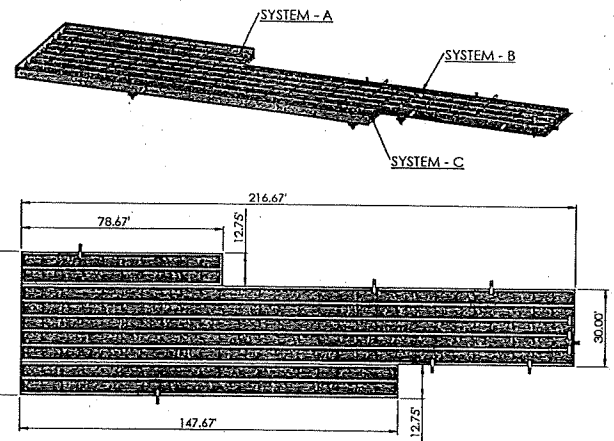
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 717-787-6397
 www.penn.gov/811

PROJECT

PRELIMINARY/FINAL LAND DEVELOPMENT PLAN FOR LINDENWOLD RESIDENTIAL ASSOCIATES, LLC. THE MATTISON ESTATES 701 S. BETHLEHEM PIKE UPPER DUBLIN TOWNSHIP MONTGOMERY COUNTY, PA

STORM CHAMBER BASINS

- BASE #17**
 - 6.68 CHAMBER LAYER (HEIGHT)
 - 27,250 SF COVERAGE (1151 CHAMBERS)
 - 120,618 CF TOTAL VOLUME
 - INVERT OF LOWEST STORMCHAMBERS= 246.10
 - INVERT OF STONE= 245.60
- BASE #18**
 - 2.84 CHAMBER LAYER (HEIGHT)
 - 10,293 SF COVERAGE (202 CHAMBERS)
 - 21,438 CF TOTAL VOLUME
 - INVERT OF STORMCHAMBERS= 254.00
 - INVERT OF STONE= 254.50
- BASE #14**
 - 2.84 CHAMBER LAYER (HEIGHT)
 - 2,137 SF COVERAGE (48 CHAMBERS)
 - 4,258 CF TOTAL VOLUME
 - INVERT OF STORMCHAMBERS= 252.00
 - INVERT OF STONE= 251.50
- BASE #15**
 - 2.84 CHAMBER LAYER (HEIGHT)
 - 6,418 SF COVERAGE (140 CHAMBERS)
 - 13,837 CF TOTAL VOLUME
 - INVERT OF STORMCHAMBERS= 254.00
 - INVERT OF STONE= 257.50
- BASE #16**
 - 2.84 CHAMBER LAYER (HEIGHT)
 - 7,043 SF COVERAGE (154 CHAMBERS)
 - 15,340 CF TOTAL VOLUME
 - INVERT OF STORMCHAMBERS= 257.00
 - INVERT OF STONE= 256.50
- BASE #11**
 - 2.84 CHAMBER LAYER (HEIGHT)
 - 1,778 SF COVERAGE (38 CHAMBERS)
 - 3,158 CF TOTAL VOLUME
 - INVERT OF STORMCHAMBERS= 244.00
 - INVERT OF STONE= 243.50
- BASE #14**
 - 2.84 CHAMBER LAYER (HEIGHT)
 - 4,215 SF COVERAGE (91 CHAMBERS)
 - 8,192 CF TOTAL VOLUME
 - INVERT OF STORMCHAMBERS= 252.50
 - INVERT OF STONE= 252.00

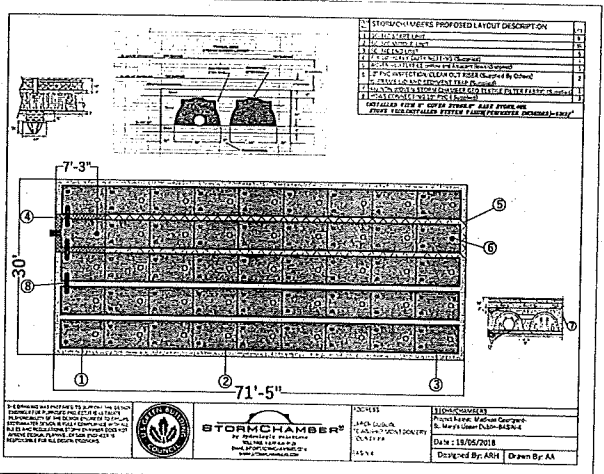


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 11000 LINDENWOLD RD, UPPER DUBLIN, PA 19088
 11000 LINDENWOLD RD, UPPER DUBLIN, PA 19088
 11000 LINDENWOLD RD, UPPER DUBLIN, PA 19088

STORMCHAMBER®
 by Hydrologic Solutions
 TOLL FREE: 1-877-425-8718
 EMAIL: SALES@STORMCHAMBER.COM
 WWW.STORMCHAMBER.COM

ADDRESS: Upper Dublin, PA

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 PROJECT: Lindenwold Residential Association
 DATE: 09/17/2018
 DRAWN BY: AAH
 CHECKED BY: AAH
 SCALE: AS SHOWN
 SHEET: 81 OF 84



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STORMCHAMBER®
 PROJECT: Lindenwold Residential Association
 DATE: 09/17/2018
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 CHECKED BY: AAH
 SCALE: AS SHOWN
 SHEET: 81 OF 84

50-20

REVISION 11-2018 12-21

81 OF 84

PROJECT: PCSWM DETAILS

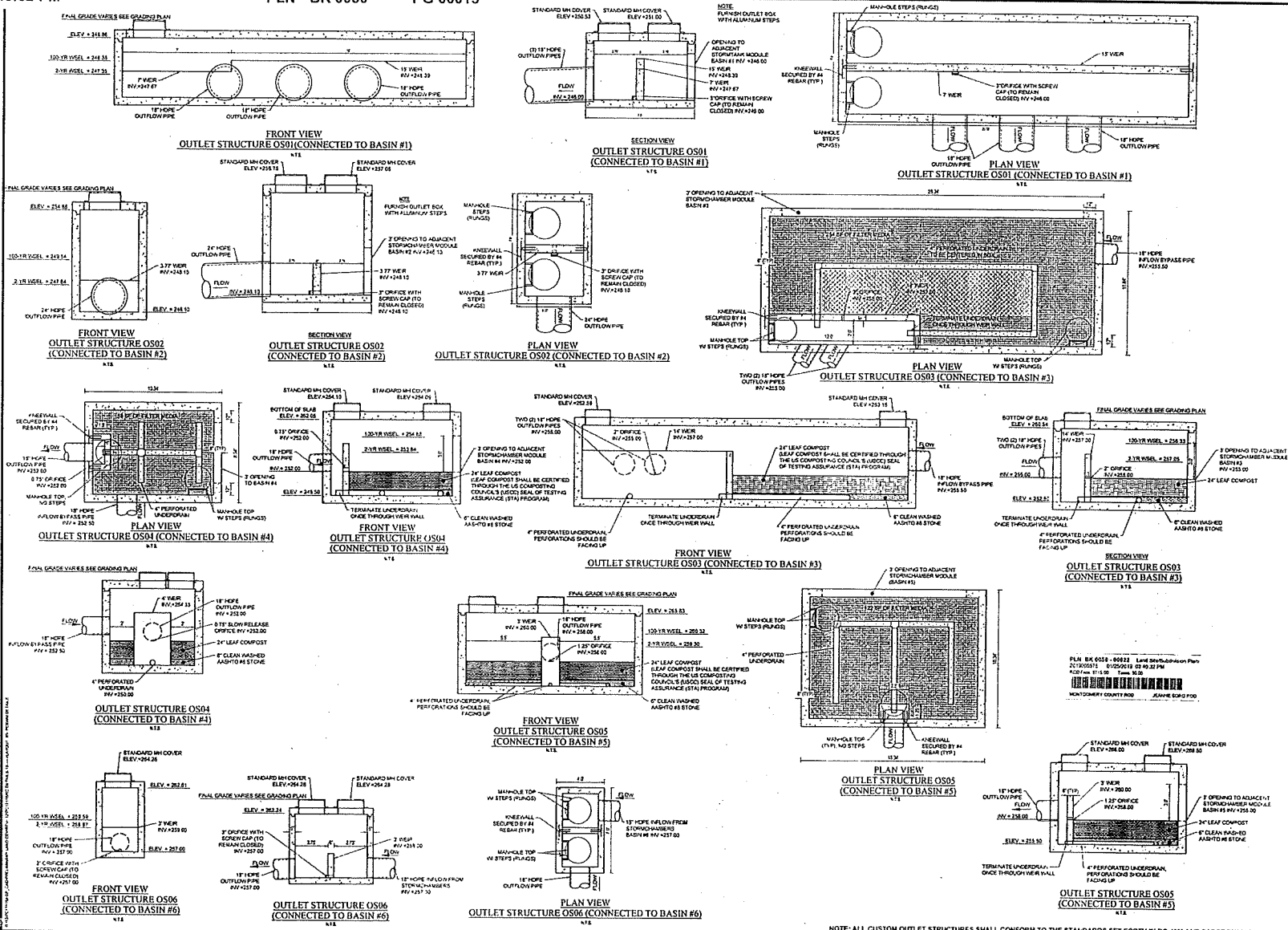
DATE: 11/21/2017

DESIGNED BY: AAH | DRAWN BY: AAH

PROJECT: PCSWM DETAILS

DATE: 11/21/2017

DESIGNED BY: AAH | DRAWN BY: AAH



NOTE: ALL CUSTOM OUTLET STRUCTURES SHALL CONFORM TO THE STANDARDS SET FORTH IN RC-45M AND PADOT PUBLICATION 408

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REVISIONS

REV. DATE	COMMENTS	BY
18	PER MDC COMMENTS	MLP
17	PER MDC COMMENTS	MLP
16	PER MDC COMMENTS	MLP
15	PER MDC COMMENTS	MLP
14	PER MDC COMMENTS	MLP
13	PER MDC COMMENTS	MLP
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6	PER MDC COMMENTS	MLP
5	PER MDC COMMENTS	MLP
4	PER MDC COMMENTS	MLP
3	PER MDC COMMENTS	MLP
2	PER MDC COMMENTS	MLP
1	PER MDC COMMENTS	MLP

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PROJECT: PC511040
 DRAWN BY: R.S.
 CHECKED BY: J.S.
 DATE: 04/24/18
 SCALE: AS SHOWN
 CAD: J.S.

PRELIMINARY/FINAL LAND DEVELOPMENT PLAN

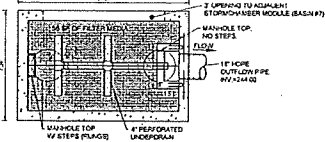
LINDENWOLD RESIDENTIAL ASSOCIATES, L.L.C.
 THE MATTISON ESTATES
 701 S. BETHLEHEM PIKE
 UPPER DUBLIN TOWNSHIP
 MONTGOMERY COUNTY, PA

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 Phone: (717) 896-6100
 Fax: (717) 896-6102
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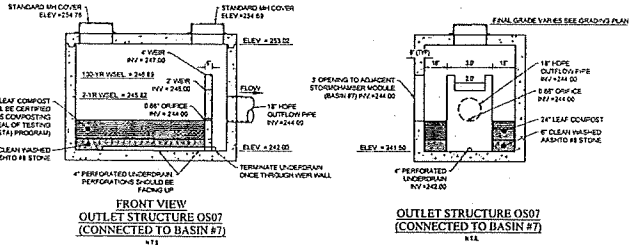
PC5WM DETAILS

83

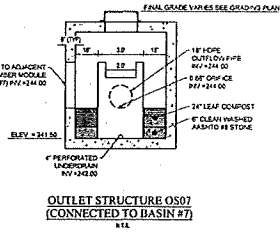
REVISED: 12-2018 12-27



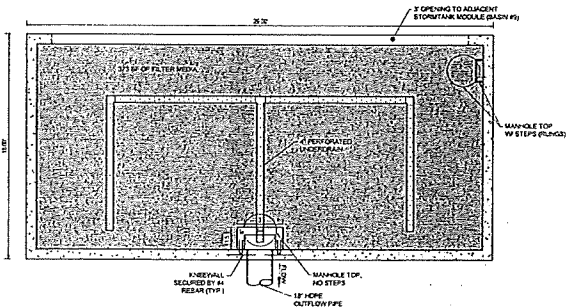
PLAN VIEW
OUTLET STRUCTURE OS07 (CONNECTED TO BASIN #7)



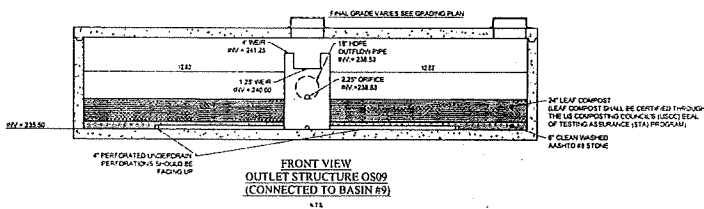
FRONT VIEW
OUTLET STRUCTURE OS07
(CONNECTED TO BASIN #7)



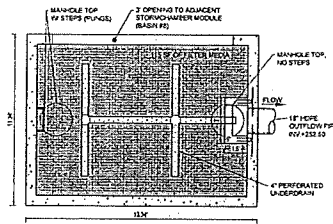
FRONT VIEW
OUTLET STRUCTURE OS07
(CONNECTED TO BASIN #7)



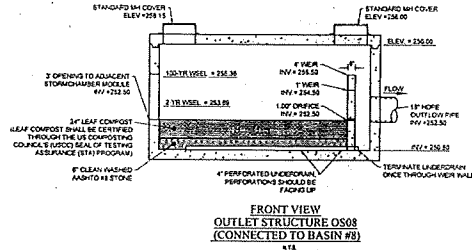
PLAN VIEW
OUTLET STRUCTURE OS09 (CONNECTED TO BASIN #9)



FRONT VIEW
OUTLET STRUCTURE OS09
(CONNECTED TO BASIN #9)



PLAN VIEW
OUTLET STRUCTURE OS08 (CONNECTED TO BASIN #8)



FRONT VIEW
OUTLET STRUCTURE OS08
(CONNECTED TO BASIN #8)

SUBSURFACE CONSTRUCTED FILTER CONSTRUCTION REQUIREMENTS

1. CONSTRUCTION OF SUBSURFACE CONSTRUCTED FILTER SHALL BE IN ACCORDANCE WITH PERMITS, REGULATIONS AND LOCAL ORDINANCES.
2. PROTECT EXISTING SUBSURFACE UTILITIES FROM THE FILTER CONSTRUCTION. VERIFY THE LOCATION AND DEPTH OF ALL UTILITIES PRIOR TO CONSTRUCTION.
3. PLACE THE SUBSURFACE CONSTRUCTED FILTER IN THE TYPICAL BROADWAY CONSTRUCTION DETAIL.
4. PLACE CLEAN WASHED #40 TO #60 SAND 2\"/>

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05	06/06/19	PER AGG'S COMMENTS	MMB
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10	06/06/19	PER AGG'S COMMENTS	MMB
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UPPER DUBLIN TOWNSHIP
MONTGOMERY COUNTY, PA

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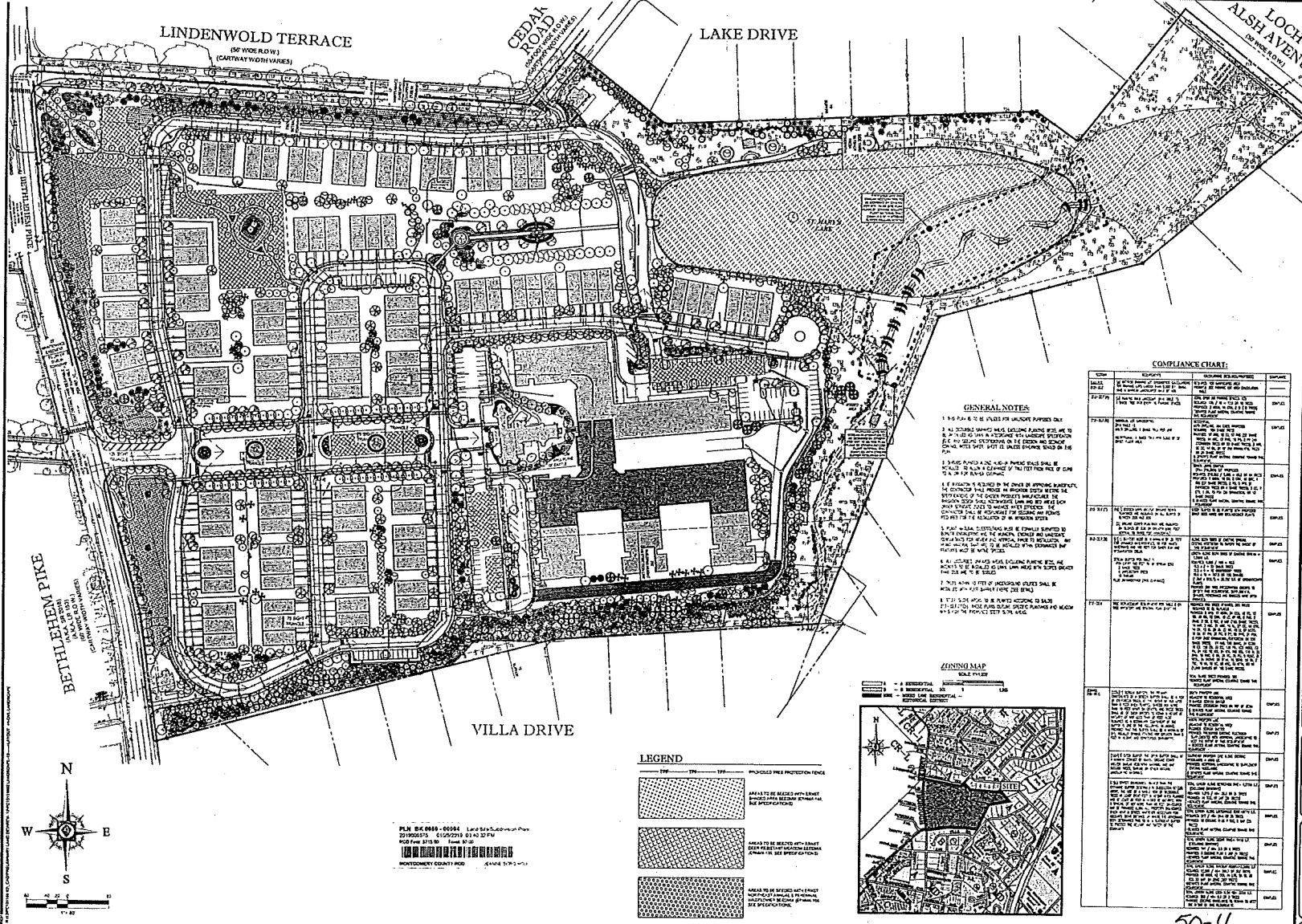
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PCSWM DETAILS

SHEET NUMBER
84
OF 84

REVISION 12 - 2018.12.27

NOTE: ALL CUSTOM OUTLET STRUCTURES SHALL CONFORM TO THE STANDARDS SET FORTH IN RC-46M AND PADOT PUBLICATION 408



PLN BK 0050-00504 Land Subdivision Plan
 D1900513 61092919 0140 32 PV
 RCE from 01/10/19 Issue 01/19
 MONTGOMERY COUNTY FGD 6 ANGE 5/13/19

LEGEND

[Symbol]	PROPOSED TREE PROTECTION FENCE
[Symbol]	AREAS TO BE SEEDED WITH TURF GRASS (SEE SPECIFICATIONS)
[Symbol]	AREAS TO BE SEEDED WITH BENT GRASS (SEE SPECIFICATIONS)
[Symbol]	AREAS TO BE SEEDED WITH PASTURE GRASS (SEE SPECIFICATIONS)

GENERAL NOTES

1. SEE PLAN 6-10 FOR NOTES FOR RESIDENTIAL PAVING ONLY.
2. ALL EXISTING SURFACES SHALL BE MAINTAINED UNLESS OTHERWISE NOTED. ALL EXISTING UTILITIES SHALL BE MAINTAINED UNLESS OTHERWISE NOTED. ALL EXISTING UTILITIES SHALL BE MAINTAINED UNLESS OTHERWISE NOTED.
3. ALL EXISTING UTILITIES SHALL BE MAINTAINED UNLESS OTHERWISE NOTED. ALL EXISTING UTILITIES SHALL BE MAINTAINED UNLESS OTHERWISE NOTED.
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COMPLIANCE CHART

NO.	REVISION	DATE	DESCRIPTION
0001	ISSUED FOR PERMITS	01/10/19	ISSUED FOR PERMITS
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BOHLER ENGINEERING
 1600 MANOR DRIVE, SUITE 202
 CHALFONT, PENNSYLVANIA 18814
 Phone: (610) 996-9100
 Fax: (610) 996-9102
 www.BohlerEngineering.com

REVISIONS

NO.	DATE	REVISION	BY
0001	01/10/19	ISSUED FOR PERMITS	BOH
0002	01/10/19	ISSUED FOR PERMITS	BOH
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0049	01/10/19	ISSUED FOR PERMITS	BOH
0050	01/10/19	ISSUED FOR PERMITS	BOH

CALL BEFORE YOU DIG!

PHILMONTARY/FINAL LAND DEVELOPMENT PLAN

FOR
LINDENWOLD RESIDENTIAL ASSOCIATES, L.L.C.
THE MATTHEW I-STATES
 701 S. BETHLEHEM PIKE
 UPPER MERION TOWNSHIP
 MONTGOMERY COUNTY, PA

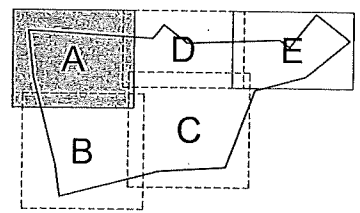
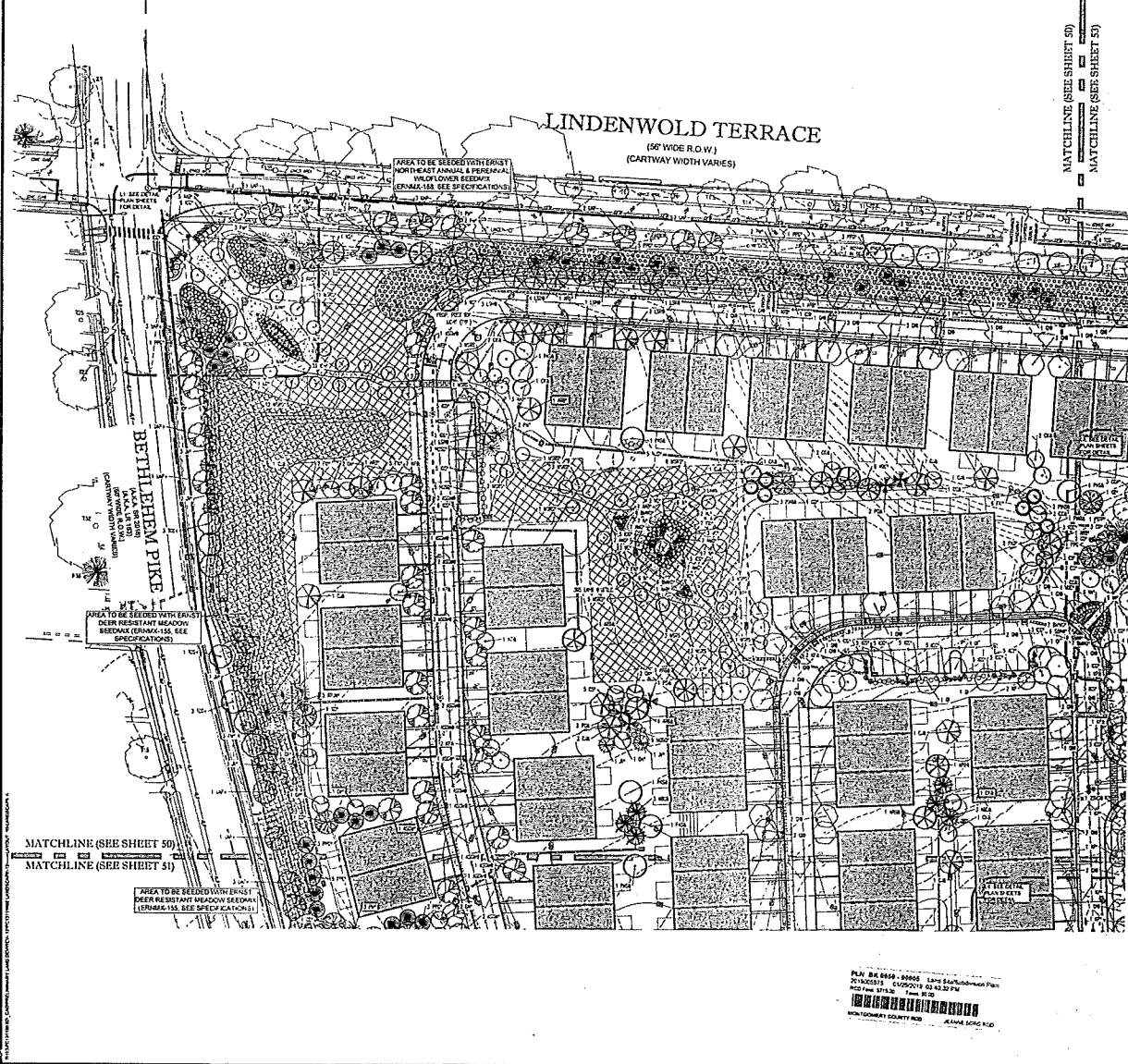
BOHLER ENGINEERING

OVERALL PCSWM LANDSCAPE PLAN

SHEET NUMBER
 49
 OF 64

REVISION 12-20-19 12:27

50-4



LEGEND

SYMBOL	PROPOSED TREE PROTECTION
[Pattern]	AREA TO BE SEEDED WITH BEST NORTH-EAST ANNUAL & PERENNIAL WOODS SEEDS (ERMAK-134 SEE SPECIFICATIONS)
[Pattern]	AREA TO BE SEEDED WITH BEST DEER RESISTANT MEADOW SEEDS (ERMAK-135 SEE SPECIFICATIONS)
[Pattern]	AREA TO BE SEEDED WITH BEST PERENNIAL WOODS SEEDS (ERMAK-136 SEE SPECIFICATIONS)

- GENERAL NOTES**
- THIS PLAN IS TO BE USED FOR LANDSCAPE PURPOSES ONLY.
 - ALL SEEDS SHOWN ON THIS PLAN ARE TO BE USED IN ACCORDANCE WITH THE SPECIFICATIONS OF THE SEED SUPPLIER. THE SEEDS SHOULD BE STORED IN A COOL, DRY PLACE AND USED WITHIN THE EXPIRATION DATE.
 - ALL SEEDS SHOULD BE PLANTED AT THE RECOMMENDED PLANTING RATE AND SPACING. THE SEEDS SHOULD BE PLANTED AT THE RECOMMENDED PLANTING RATE AND SPACING.
 - IF SEEDS ARE PLANTED IN THE WINTER, THEY SHOULD BE COVERED WITH A MULCH LAYER TO PROTECT THEM FROM THE WINTER WEATHER.
 - ALL SEEDS SHOULD BE PLANTED AT THE RECOMMENDED PLANTING RATE AND SPACING. THE SEEDS SHOULD BE PLANTED AT THE RECOMMENDED PLANTING RATE AND SPACING.
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MONTGO

BOHLER ENGINEERING
1111 N. WASHINGTON AVE., SUITE 200
MONTGOMERY COUNTY, MD 20894
PHONE: (301) 998-8100
FAX: (301) 998-8102
WWW.BOHLENGINEERING.COM

REVISIONS

NO.	DATE	COMMENT	BY
01	11/13/18	FOR THE RECORD	ALP
02	11/13/18	FOR THE RECORD	ALP
03	11/13/18	FOR THE RECORD	ALP
04	11/13/18	FOR THE RECORD	ALP
05	11/13/18	FOR THE RECORD	ALP
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07	11/13/18	FOR THE RECORD	ALP
08	11/13/18	FOR THE RECORD	ALP
09	11/13/18	FOR THE RECORD	ALP
10	11/13/18	FOR THE RECORD	ALP
11	11/13/18	FOR THE RECORD	ALP
12	11/13/18	FOR THE RECORD	ALP

CALL BEFORE YOU DIG!

FAI
1-800-4-A-FAI

PROJECT: PCSWM LANDSCAPE PLAN
DATE: 01/25/19
SCALE: AS SHOWN
CAD: POLYLINE/LANDSCAPE 13

PRELIMINARY/FINAL LAND DEVELOPMENT PLAN

FOR
LINDENWOLD RESIDENTIAL ASSOCIATES, LLC.
THE MATTISON ESTATES

701 S. BETHEM PIKE
UPPER DUBLIN TOWNSHIP
MONTGOMERY COUNTY, PA

BOHLER ENGINEERING
1609 MANOR DRIVE, SUITE 200
CHAMBERS, PENNSYLVANIA 15116
Phone: (412) 866-8100
Fax: (412) 866-8102
www.BohlerEngineering.com

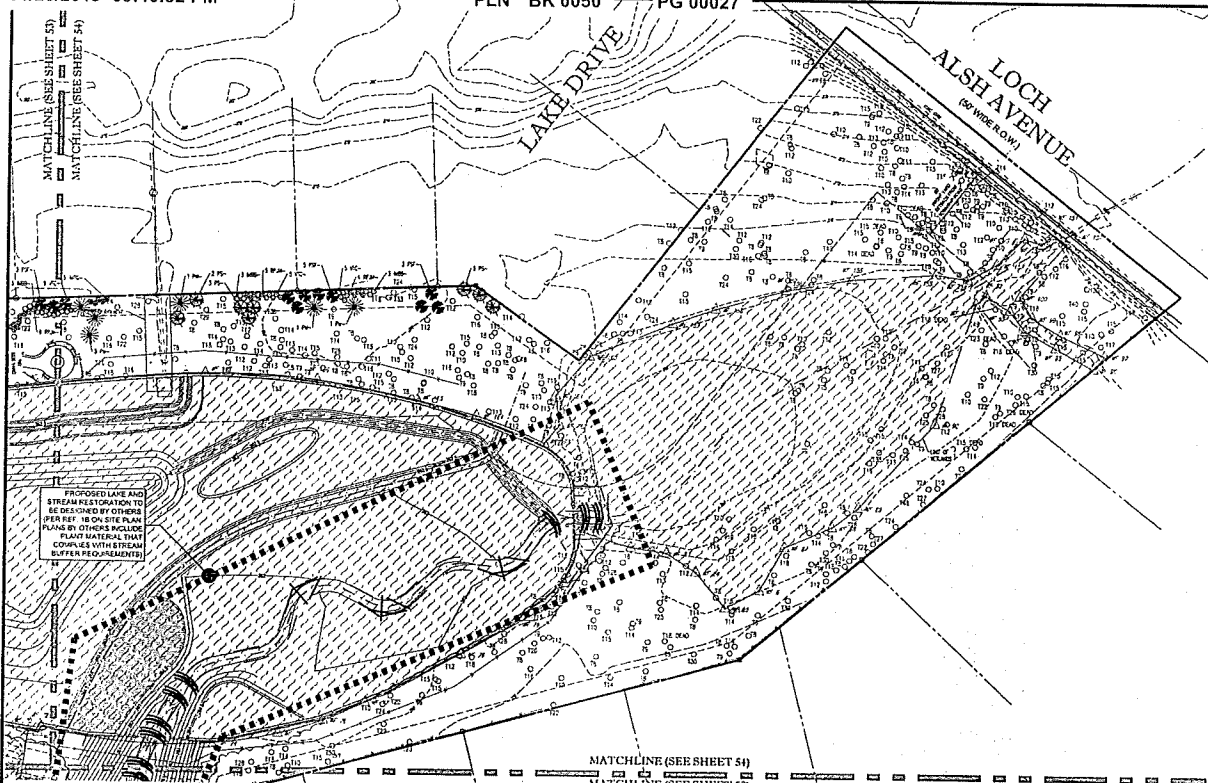
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1111 N. WASHINGTON AVE., SUITE 200
MONTGOMERY COUNTY, MD 20894
PHONE: (301) 998-8100
FAX: (301) 998-8102
WWW.BOHLENGINEERING.COM

PCSWM LANDSCAPE PLAN (A)

SHEET NUMBER
50
OF 84

REVISION 12-2018 12:27

50-5



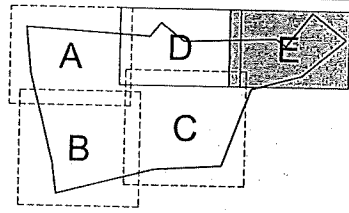
PROPOSED LAKE AND STREAM RESTORATION TO BE DESIGNED BY OTHERS. REFER TO SITE PLAN PLANS BY OTHERS INCLUDE PLANT MATERIAL THAT COMPLES WITH STREAM BUFFER REQUIREMENTS.

MATCHLINE (SEE SHEET 54)
MATCHLINE (SEE SHEET 52)

PLN BK 0050 - 00518 Land Subdivision Plan
2/15/2019 8:42:22 AM 03:40:32 PM
PCF File 0318 - 1/25/19
MONTGOMERY COUNTY, PA
JAN 25 2019

LEGEND

TYPE	DESCRIPTION
[Symbol: Dotted pattern]	PROPOSED TREE PROTECTION FENCE
[Symbol: Dashed line]	AREA TO BE MAINTAINED WITH EXISTING VEGETATION AND MINIMUM GRASSING REQUIREMENTS
[Symbol: Diagonal hatching]	AREA TO BE RESTORED WITH EXISTING VEGETATION AND MINIMUM GRASSING REQUIREMENTS
[Symbol: Solid hatching]	AREA TO BE MAINTAINED WITH EXISTING VEGETATION AND MINIMUM GRASSING REQUIREMENTS



KEY MAP

BOHLER ENGINEERING
 1700 W. MARKET STREET, SUITE 200
 CHALFONT, PENNSYLVANIA 19314
 Phone: (610) 999-1100
 Fax: (610) 999-8102
 www.BohlerEngineering.com

MONTCO

REVISIONS

REV.	DATE	COMMENT	BY
01	1/18/2019	PER COMMENTS	MEW
02	1/18/2019	PER MEED COMMENTS	PLP
03	1/22/2019	PER MEED COMMENTS	MEW
04	1/22/2019	PER MEED COMMENTS	MEW
05	1/22/2019	PER MEED COMMENTS	MEW
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18	1/22/2019	PER MEED COMMENTS	MEW
19	1/22/2019	PER MEED COMMENTS	MEW
20	1/22/2019	PER MEED COMMENTS	MEW

CALL BEFORE YOU DIG!

Underground utilities may be located in the project area. Call 811 to locate underground utilities before excavation.

SEPA
 1700 W. MARKET STREET, SUITE 200
 CHALFONT, PA 19314

PROJECT NO.: PCSWM 02
 PROJECT NAME: 12.2
 CHECKED BY: J.S.P.
 DATE: 1/25/19
 SCALE: AS SHOWN
 CODES: PCSWM18 LANDSCAPE 02

PRELIMINARY/FINAL LAND DEVELOPMENT PLAN

FOR
LINDENWOLD RESIDENTIAL ASSOCIATES, L.L.C.
 THE MATTHEW ESTATES
 701 S. BETHLEHEM PIKE
 UPPER DUBLIN TOWNSHIP
 MONTGOMERY COUNTY, PA

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 Fax: (610) 999-8102
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PCSWM LANDSCAPE PLAN (E)

SHEET NUMBER
54
 OF 84

REVISION 12 - 2018.11.27



50-9