Earl Township

517 North Railroad Avenue New Holland, PA 17557 (717) 354-0773 - Fax (717) 355-0599

NOTICE TO ALL PERMIT APPLICANTS...

Any permit approval issued by the Zoning Officer is based upon information provided by the applicant. The Township has not performed a title search and has not determined whether the proposed construction encroaches into any easements of record.

THE APPLICANT IS ASSUMING ALL RISKS THAT THE HOLDER OF AN EASEMENT, IN EXERCISING RIGHTS UNDER ITS EASEMENT, MAY DAMAGE OR REMOVE THE IMPROVEMENTS AUTHORIZED BY THIS PERMIT. IF THE HOLDER OF ANY EASEMENT, INCLUDING, BUT NOT LIMITED TO THE TOWNSHIP, EXERCISES RIGHTS UNDER SUCH EASEMENT AND DAMAGES OR DESTROYS IMPROVEMENTS AUTHORIZED BY THIS PERMIT, THE TOWNSHIP SHALL HAVE NO LIABILITY.

ANY CHANGES TO ANY EXISTING STORM WATER MANAGEMENT FACILITIES MUST COMPLY WITH ALL APPLICABLE TOWNSHIP ORDINANCES REGULATING EARTH DISTURBANCE AND STORM WATER MANAGEMENT, AND IT IS THE APPLICANT'S RESPONSIBILITY TO IDENTIFY ALL STORM WATER MANAGEMENT FACILITIES AND TO PRESERVE AND MAINTAIN SUCH FACILITIES UNLESS THE APPLICANT OBTAINS THE NECESSARY APPROVALS TO ALTER STORM WATER MANAGEMENT FACILITIES.

EARL TOWNSHIP

| PERMIT | # | |
|--------|---|--|
| | | |

| | | | | DATE OF RECEIPT: |
|----------------------------|---|--|--|---------------------------------------|
| <u>APPLICATIO</u> | N FOR ZON | ING/AGRICU | JLTURAL 1 | <u>PERMIT</u> |
| Applicant's Name: | | · <u> </u> | | Telephone No. |
| Address: | | | | |
| | | | | Telephone No. |
| Address: | | | | |
| Address of Property: _ | | | | |
| If lot is shown on a rec | ord of subdivision p | olan, indicate the name | e of the plan and the | he book, volume, and page number of |
| the recorded plan: | | | | |
| | | | | |
| | | | · · · · · · · · · · · · · · · · · · · | · · · · · · · · · · · · · · · · · · · |
| Structure/Modification | will contain | square feet and | a height of | from grade to the highest point. |
| Dimension: | Value of the Con | npleted Structure or M | Iodification: | |
| | | | | (Excluding land) |
| Proposed Use: | | | | |
| Date of Completion: _ | | | | |
| | | | | |
| PROVIDE TWO (2 | | | | |
| 2. 3. 4. 5. 6. | The location and of the location and of buildings and off- The setback dimer side and rear prop The location of sa A statement indicate. | dimensions (length, wi street parking and/or I nsions for all proposed erty lines and the abut nitary sewer and wate ating the existing and | width) of all exist idth, & height) of oading facilities. I buildings or adding street centerly supply facilities. proposed use. | |
| Date | _ | | | Applicant's Signature |
| | F | OR ZONING OFFICE | ERS USE ONLY | |
| This application is: | Approved () | Denied () | | |
| Date | _ | | | Zoning Officers Signature |
| Comments: | | | | |
| | | | | ı Fees: Admin: |

Total Fee Due: _____ Zoning District: _____ Tax Map Number: _____

Earl Township Contractor Listing

| Permit No | Site Addr | 38S |
|-----------------------|-----------|--|
| General Contractor | | |
| Business Name | | |
| Contact | | Telephone |
| Address | | |
| City | State | Zip |
| Fax | Mobile | Pager |
| Electrical Contractor | | ************************************** |
| Business Name | | |
| Contact | | Telephone |
| Address | | |
| City | State | Zip |
| Fax | Mobile | Pager |
| Plumbing Contractor | | |
| Business Name | | |
| Contact | | Telephone |
| Address | | |
| City | State | Zip |
| Fax | Mobile | Pager |
| HVAC Contractor | | |
| Business Name | | |
| Contact | | Telephone |
| Address | | |
| City | State | Zip |
| Fax | Mobile | Pager |

Workers' Compensation Insurance Coverage Information (attach to building permit application)

| Α. | The applicant is | Transmin |
|-------------------------|--|--|
| * ** | | |
| | A contractor within the meaning of the | e Pennsylvania Workers' Compensation Law |
| | | . ш 110 |
| | If the answer is "yes," complete Secti | ons B and C below as appropriate. |
| В. | Insurance Information | |
| | Name of Applicant | |
| | Federal or State Employer Identification | on No |
| | Applicant is a qualified self-insurer for Certificate attached | · |
| | Name of Workers' Compensation Insu | irer |
| egeneral Segeneral | Workers' Compensation Insurance Po | |
| i wa | Policy Expiration Date | |
| , tack | | |
| works comp of the | The undersigned swears or affirms that | a contractor claiming exemption from providing the/she is not required to provide workers' of Pennsylvania's Workers' Compensation Law for one |
| indiv insur | □Contractor with no employees. Contricted idual to perform work pursuant to this ance to the township. | ractor prohibited by law from employing any building permit unless contractor provides proof of |
| | □Religious exemption under the Work | ers' Compensation Law. |
| Subscribe day | ed and sworn to before me this of20 | |
| (Sign | nature of Notary Public) | ĺ |
| My commis | sion expires: | Signature of applicantAddress |
| | | |
| | (seal) | County of |

EARL TOWNSHIP ADOPTED NEW STORM WATER ORDINANCE ON MAY 5, 2014

(STATE MANDATED REGULATION)

THIS NEW MANDATE REQUIRES THAT ALL NEW IMPERVIOUS AREAS CREATED MUST BE DOCUMENTED AND THE RESULTING STORM WATER RUNOFF MANAGED PER REGULATIONS. THE FOLLOWING LEVELS OF STORM WATER MANAGEMENT HAVE BEEN CREATED TO ASSIST OUR RESIDENTS WITH THE REGULATIONS:

NEW IMPERVIOUS OF UP TO 1, 000 SQUARE FEET MAY UTILIZE AN EXEMPTION (ONE TIME EXEMPTION ACCUMULATIVE TO THE 1,000 SQUARE FEET) AND THE EXEMPTON APPLICATION SHALL BE EXECUTED AND SUBMITTED FOR APPROVAL BY THE TOWNSHIP.

NEW IMPERVIOUS OF 1 TO 4,999 SQUARE FEET MAY UTILIZE THE SMALL PROJECT APPLICATION FOR SMALL PROJECT STORM WATER MANAGEMENT TO BE SUBMITTED AND APPROVED BY THE TOWNSHIP.

NEW IMPERVIOUS OF 5, 000 SQUARE FEET AND OVER SHALL PLAN FULL STORM WATER MANAGEMENT PER THE CURRENT EARL TOWNHSIP STORM WATER ORDINANCE AND SUBMIT FOR REVIEW AND APPROVAL BY THE TOWNSHIP.

APPENDIX A-1

EXEMPTION APPLICATION

| Date ReceivedSubmitted Fees \$ | File Number - | Property Act #Approval of Application Date | |
|--|--|--|---------------------------------------|
| Project Street Address: | | | |
| Owner's Name: | | | |
| Signature: | | | |
| Phone # / Fax # / E-mail: | | | |
| Person/Firm to be completing | g work: | | |
| Phone # / Fax # / E-mail: | | | |
| Proposed Activity: | | | · · · · · · · · · · · · · · · · · · · |
| Are you removing existing in | ipervious as part of th | is project? | |
| [] No [] Yes, Total area o | f existing Impervious t | to be removed sq. ft. | |
| [] Removal of ground cove | r, grading, filling, or ex | xcavation of an area (1,000 square feet or less) | |
| Total area of lan | d disturbance: | sq. ft. | |
| a a Type of Regulated Activi | ly (check all that apply | y): [] Removal of ground dover, | |
| [] Grading, [] F | illing, [] Excavation, | [] Other earth disturbance activity (please descril | be) |
| [] Addition of Impervious S | urface (1,000 square | feet or less) | |
| Total new impen | /ious surface propose | dsq. ft. | |
| Type of new impervious | surface: [] driveway, l | [] shed, [] garage, [] deck, [] walkway, | |
| [] other (please | describe) | | |
| Check all items below that [] Floodplain [] Wetlands [] Slopes greater than 15% [] Known bedrock within 6 fe [] Riparian forest buffer [] Natural water flow paths ([] Existing known stormwate [] Downstream property own | eet of the ground surfa creeks, streams, pond or problem areas | ice | |

<u>Sketch</u>
Provide a sketch of the proposed additional impervious area or land disturbance.

APPENDIX A-2

SMALL PROJECT APPLICATION

| File Number | Date Received |
|--|--|
| Submitted Fees \$ | Approval of Application Date |
| Project Street Address: | |
| Project Name: | |
| Owner's Name and Address: | |
| Phone # / Fax # / E-mail: | |
| Please list the date of any prev Applications for the subject pre | ious Minor Land Disturbance or Small Project |
| Proposed Activity: | |
| [] Removal of ground cover, gra | ading, filling or excavation of an area less than 5,000 square |
| feet | |
| Total area of land disturbance | s;sq. ft. |
| Type of Regulated Activity (ch | neck all that apply): |
| [] Removal of ground [] Grading [] Filling [] Excavation [] Other earth disturb | pance activity (please describe) |
| [] Addition of Impervious Surfac | e (more than 1,000 SF but less than 5,000 SF) |
| Type of new impervious s | urface: [] driveway, [] shed, [] garage, [] deck, [] walkway, |
| [] other (describe) | |
| Total new impervious surf | ace proposed for construction:sq. ft. |
| Are you removing existing | impervious as part of this project? |
| [] No [] Yes – Total area of | existing Impervious to be removedsq. ft. |

| Check all items below that will be impacted by the project: | |
|---|-------------|
| Mature trees | |
| Sinkholes | |
| Water wells | |
| Septic drainfields | |
| Alternate septic drainfields | |
| Creeks, streams, wetlands, or ponds | |
| Existing stormwater management facility (basin, swale, etc.) | |
| Easements | |
| Total runoff volume to be permanently removed/managed on site from attached calculation worksheet: gallons or cubic feet | |
| Proposed Stormwater Management Controls (Best Management Practice): | |
| Rain Garden | |
| Infiltration Trench | |
| Cistern | |
| Rain Barrel | |
| Other (describe) | |
| Sketch | |
| Provide a sketch of the proposed additional impervious area or land disturbance. Include the | i |
| following on the sketch: | |
| Property boundary | s De os |
| Location and approximate footprint of existing structures (buildings, patios, driveways, etc.) | |
| Approximate location of any of the following features which will be impacted by the | |
| project: | j |
| Mature trees | |
| Sinkholes | 1 |
| Water wells | |
| Septic drainfields | |
| Alternate septic drainfields | ì |
| Creeks, streams, wetlands, ponds | Ì |
| Existing stormwater management facilities (basins, swales, etc.) | (() |
| Location and approximate footprint of proposed impervious area or land disturbance. | |
| Approximate footprint and location of all structures on adjacent properties if located within 50 feet of the proposed impervious area or land disturbance | 1 |
| Location and description of proposed stormwater management facilities (e.g., rain gardens, swales, rain barrels, etc.) | |
| Direction of proposed stormwater discharge (e.g., with arrows) | į |
| Scale and North arrow | |
| | į |
| Person/Firm to be completing work:Phone # / Fax # / E-mail: | 1 |

| Name of P | erson Submitting this Application: | |
|------------|------------------------------------|--|
| Signature: | | |
| Date: | | |

Small Project Application Calculation Worksheet

| The applicant may use the following to calculate the amount of runoff which must be managed in accordance with § 17-302B of this chapter. |
|---|
| Project Name: |
| Owner Name: |
| Proposed Additional Impervious Area: square feet |
| Impervious Area Calculations |
| Calculate the amount of runoff to be permanently removed (managed on site through reuse, evaporation, transpiration or infiltration): |
| Additional impervious area ÷ 12 = Permanently Removed Runoff Volume (PRV) |
| square feet of additional impervious ÷ 12 =cubic feet PRV cubic feet x 7.48 gallons per cubic feet = gallons PRV |

EXAMPLE Small Project Application Calculation Worksheet

| | | CONTRACTOR OF THE | NOTIOUL |
|-----------------------|---|---|----------|
| Landowner Name: | Jane Doe | (20 x 45' garage) | · |
| Owner Name: | Jane Doe | | |
| Proposed Additional | Impervious Area: | 900 square | feet |
| Additional Impervious | t of runoff to bajperma ation or infiltration) usi | ig the fallowing formula ently Rethoved Runoff V ious ÷ 12 = 75 | |
| | EX | AMPLE SKETCH | |
| | | Robertedi reinsjonijek storgeno | N/glo Ni |

Scale 1" = 50'

Small Projects Guide-Sample Operation & Maintenance Plan

Construction:

- 1. Install erosion and sedimentation control facilities
- 2. Stormwater Management Facility (ies) shall be installed before impervious areas are completed. If earthwork is involved during the construction of the impervious area, then extreme caution shall be taken so that sediment does not wash into the SWM Facility (ies).
- 3. Mark the locations of the SWM facility (ies).
- 4. Excavate the SWM Facility to the required depth. Contact municipality for inspection prior to filling. If standing water is encountered, a SWM Site Plan may need to be submitted; contact Municipal Engineer. All excavated materials shall be removed from the site or stabilized.

For stone Infiltration Structures

- 5. Line excavation with Geotextile,
- 6. Backfill SWM facility with required stone. If required: Install piping, cleanouts and associated facilities as detailed.
- 7. If required: Close geotextile material over stone bedding.
- 8. If required: Place topsoil over trench.
- 9. Stabilize and seed all disturbed areas.

For Rain Gardens

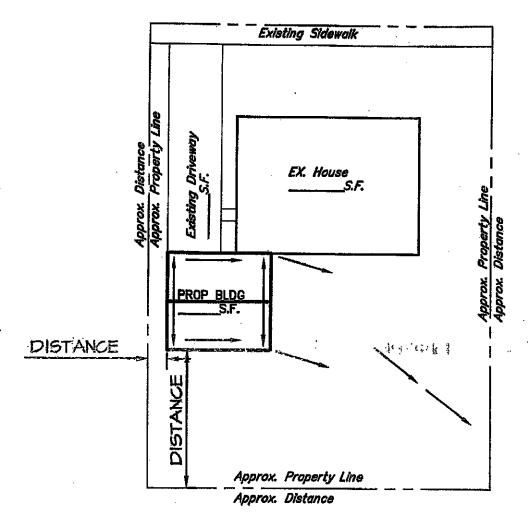
- 10. Place topsoil over excavated area.
- 11. Install plantings as shown on the plan.
- 12. Stabilize and seed all disturbed areas.

Maintenance:

- The SWM facility shall be checked regularly to ensure that no standing water exists in the facility
 3 days after a rain event. If water is encountered, the facility may need to be modified.
 Notification of the municipality is required of facility is not functioning before any modifications
 are made.
- 2. Monitor the SWM facility to ensure that no sediment, grass clippings, leaves, and other similar accumulations occur on top of, and/or within, the SWM Facility.
- 3. Homeowner to submit an inspection report to the Township one year after construction and every 3rd year there afterwards.

I have read and agree to the above Operation and Maintenance Plan. I, as the property owner, am responsible for the proper construction and operation and maintenance for the SWM Facilities. If I fail to adhere to any of these tasks, the Township may perform the services required and charge the appropriate fees. Nonpayment of the fees may result in a lien against my property.

| · . | | <u> </u> |
|--------------------------|-----------|----------|
| Applicant Name (Printed) | Signature | Date |



Sample Alley FLOW DIRECTION

EARL TOWNSHIP

ATTACHMENT I SAMPLE SKETCH/SITE PLAN

143 SOUTH BROAD STREET
LITTIZ, PA 11543

CITY 225-7271 PAX (117) 225-7040

ENGINEERS & LANDSCAPE ARCHITECTS

DATE:

DOS NIMBER:

DRAWN BY:

DRAWN BY:

DATE:

DATE:

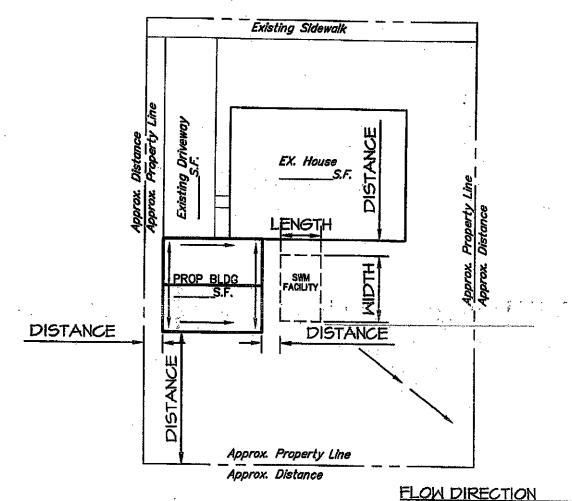
108 NIMBER:

DRAWN BY:

DRAWN BY:

SKETCH:

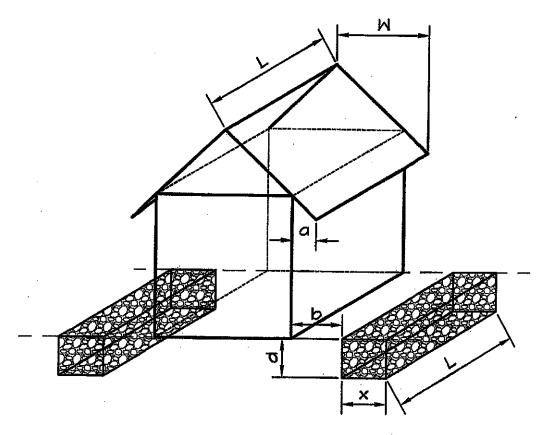
1 OF 1



Sample Alley

EARL TOWNSHIP
ATTACHMENT 2 SAMPLE SWM SITE PLAN

743 SOUTH BROAD STREET
LITITZ, PA 17543
(117) 626-1211 PAX (17) 626-1040
PAWN BY:
DRAWN BY:
DATE:
DATE:
2014
1 OF 1



LENGTH OF STRUCTURE ROOF = LENGTH OF SEEPAGE TRENCH (FT)

W = WIDTH OF ONE SIDE OF THE ROOF (FT)

a = EAVE/OVERHANG (FT)

b = DISTANCE FROM STRUCTURE WALL TO SEEPAGE TRENCH (FT) = a + 1 FT => PLACE FROM EDGE OF TRENCH ONE FOOT PAST EAVES

x = WIDTH OF SEEPAGE TRENCH (FT)

d = DEPTH OF SEEPAGE TRENCH (FT)

REQUIRED VOLUME OF TRENCH => $L*W*1/12 = L*X*d*0.4 \Rightarrow X=0.14W$ for d=1.5'

Ratio: 3.6 to 1

(IMPERVIOUS TO INFILTRATION)

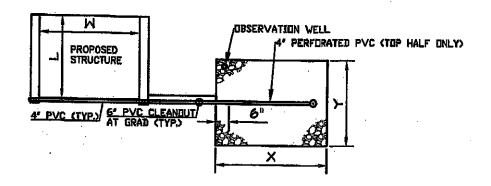
NOTES

1.) TRENCH MUST BE PROVIDED ON EACH SIDE OF STRUCTURE.

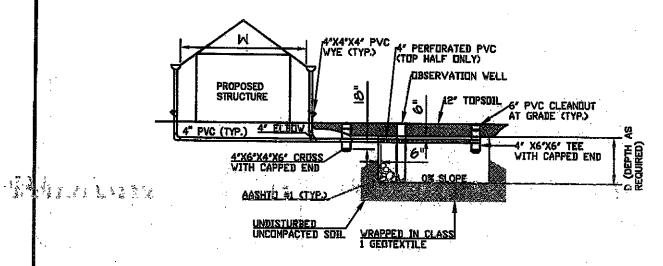
- 2.) SIDE AND BOTTOM OF TRENCH TO BE WRAPPED IN CLASS 1 GEOTEXTILE.
- 3.) TRENCH TO BE FILLED WITH CLEAN STONE (3/4" MIN. SIZE).
- 4.) TRENCH TO BE CONSTRUCTED AT 0% SLOPE ON UNDISTURBED SOIL.
- 5.) TRENCH TO BE CHECKED REGULARLY TO MAINTAIN PROPER OPERATION

| EARL TOWNSHIP | The same and the s | JOB NIMBER |
|--|--|------------|
| ATTACHMENT 3 STORMWATER MANAGEMENT STRUCTURES | WITHOUT GUTTERS | _ |
| 748 SOUTH BROAD STREET | SCALE: N.T | .5. DRAWNO |
| LITITZ, PA 17543 (17) 626-1271 FXX (17) 626-1040 Westergroup com | DRAWN BY: | N/A |
| ENGINEERS & LANDSCAPE ARCHITECTS | DATE: 20 | 24 10=1 |

DRANING. WNSDNBS-4191Detalls/Detalls-Earlidag - PLOTTED, Feb 04, 2014 4.25 pm



PLAN VIEW



SECTION VIEW

L = LENGTH OF STRUCTURE ROOF (FT)

W = WIDTH OF ENTIRE ROOF (FT)
X = WIDTH OF INFILTRATION BED (FT)

Y = LENGTH OF INFILTRATION BED (FT)

REQUIRED VOLUME OF BED = L*W*1/12 = X*Y*D*0.4 [ASSUME X=W D=2']

Y=0.11L RATIO 4.76 TO 1

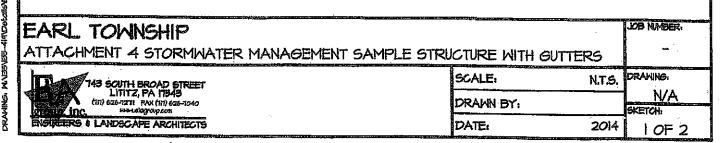
(IMPERVIOUS TO INFILTRATION)

1.2 H

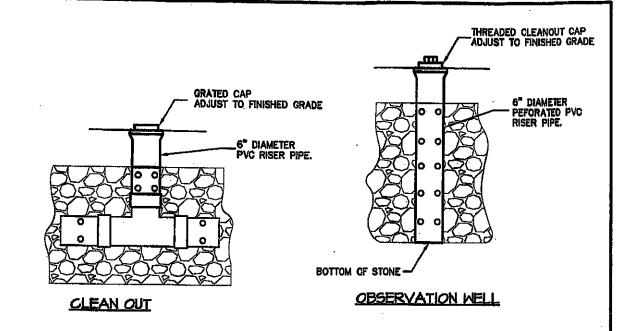
3. O

NOTES

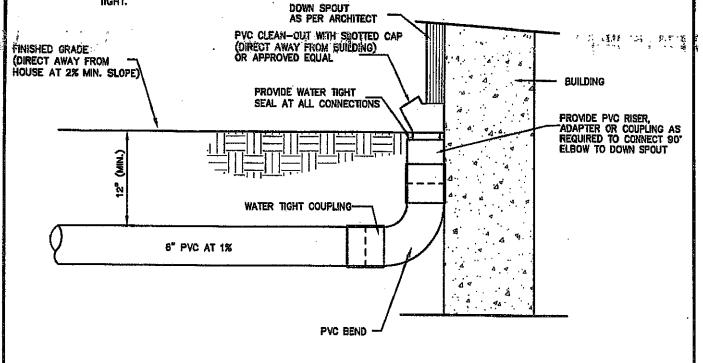
- 1.) BOTTOM OF BED TO BE D+1' BELOW GRADE TO ACCOUNT FOR 1' OF TOPSOIL
- 2.) PIPING AND CLEANOUTS TO BE CENTERED WITHIN INFILTRATION BED.
- 3.) BED TO BE CHECKED REGULARLY TO MAINTAIN PROPER OPERATION.
- 4.) SEE SHEET 2 OF 2 FOR ADDITIONAL DETAILS





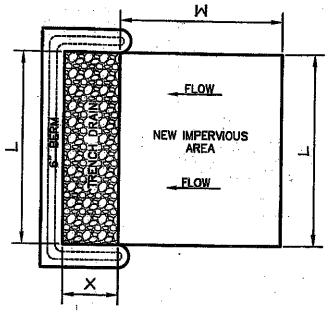


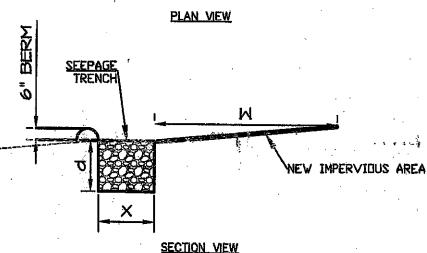
NOTE:
CONTRACTOR SHALL PROVIDE ALL
FITTINGS, ADAPTERS, COUPLINGS AND
OTHER APPURTENANCES AS REQUIRED TO
CONNECT STORM CONVEYANCE SYSTEM.
ALL CONNECTIONS SHALL BE BE WATER



CONNECTION TO DOWN SPOUT

| EARL TOWNSHIP ATTACHMENT 4-IDOWNSPOUT/CLEAN OUT/OBSERVATION WELL DETAILS | | | JOS NIMBER: - |
|--|----------|--------|------------------|
| 748 SOUTH EROAD STREET LITITZ, PA 17549 (17) 525-7211 FAX (17) 625-7040 (973 SEV 1970, PROVIDED TO PRO | 9CALE: | N.T.5. | DRAHING, |
| | DRAWN BY | | N/A SKETCHI |
| | DATE: | 2014 | 2 <i>0</i> F2 |





KEV

L = LENGTH OF NEW IMPERVIOUS SURFACE (FT) = LENGTH OF SEEPAGE TRENCH

W = WIDTH OF NEW IMPERVIOUS SURFACE -MAY NOT EXCEED 75'

X = WIDTH OF SEEPAGE TRENCH (FT)

d = DEPTH OF SEEPAGE TRENCH (FT)

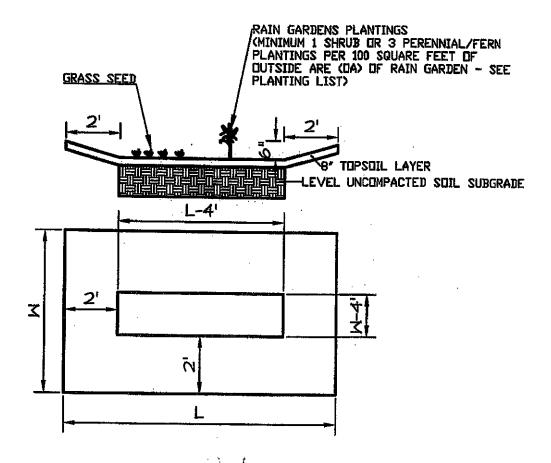
REQUIRED VOLUME OF TRENCH => L*W*1/12=X*L*d*0.4 => X=0.14W FOR d=1.5'

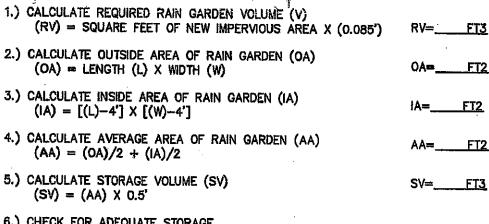
NOTES

- 1.) SIDE AND BOTTOM OF TRENCH TO BE WRAPPED IN CLASS 1 GEOTEXTILE
- 2.) TRENCH TO BE FILLED WITH CLEAN STONE (3/4"MIN. SIZE).
- 3.) TRENCH TO BE CONSTRUCTED AT 0% SLOPE ON UNDISTURBED SOIL.
- 4.) TRENCH TO BE CHECKED REGULARLY TO MAINTAIN PROPER OPERATION.

EARL TOWNSHIP
ATTACHMENT 5 STORMWATER MANAGEMENT AT GRADE IMPERVIOUS

148 SCUTH BROAD STREET
LIMITZ, PA 1548
(10) 826-1241 PAX (10) 826-1040
(10) 826-1040 PAX





- 6.) CHECK FOR ADEQUATE STORAGE

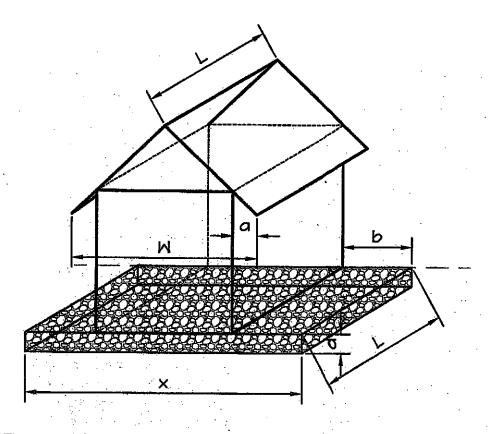
 STORAGE VOLUME (SV) MUST BE GREATER THAN REQUIRED VOLUME (RV)

 RV= ___FT3 > SV=___FT3
- 7.) ADJUST RAIN GARDEN SIZE

 IF STORAGE VOLUME (SV) IS NOT GREATER THAN REQUIRED VOLUME (RV), INCREASE THE SIZE

 OF THE RAIN GARDEN AND REPEAT STEPS 2—6.





<u>KEY</u>

L = LENGTH OF STRUCTURE ROOF = LENGTH OF SEEPAGE TRENCH (FT.)

W = WIDTH OF ONE SIDE OF THE ROOF (FT)

 $\alpha = EAVE/OVERHANG (FT)$

b = DISTANCE FROM STRUCTURE WALL TO SEEPAGE TRENCH (FT)

= a + 1 FT => PLACE FROM EDGE OF TRENCH ONE FOOT PAST EAVES

WIDTH OF SEEPAGE TRENCH (FT)

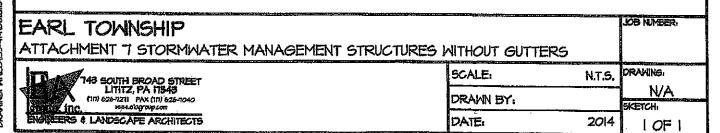
x = W + 2FT

d = DEPTH OF SEEPAGE TRENCH (FT)

D = 6" TO 8" (AVERAGE)

NOTES

- 1.) TRENCH MUST BE PROVIDED ON EACH SIDE OF STRUCTURE.
- 2.) SIDE AND BOTTOM OF TRENCH TO BE WRAPPED IN CLASS 1 GEOTEXTILE.
- 3.) TRENCH TO BE FILLED WITH CLEAN STONE (3/4" MIN. SIZE).
- 4.) TRENCH TO BE CONSTRUCTED AT 0% SLOPE ON UNDISTURBED SOIL.
- 5.) TRENCH TO BE CHECKED REGULARLY TO MAINTAIN PROPER OPERATION



Rain Garden Native Planting List

Perennials and Ferns

Blue false indigo (Baptista Australis)

Blue flag iris (Iris Versicolor)

Blue star (Amsonia tabernaemontana)

Blue vervain (Verbena hastata)

Boltonia (Boltonia asteroids)

Boneset (Eupatorium perfoliatum)

Bottlebrush grass (Hystrix patula)

Broomsedge (Andropogon virginicus)

Cardinal flower (Lobelia cardinalis)

Cinnamon fern (Osmunda cinnamomea)

Culvers root (Veronicastrum virginicum)

Golden ragwort (Senecio aureus)

Goldenrod (Solidago patula, S. rugosa)

Great blue lobelia (Lobelia siphlitica)

Green bullrush (Scirpus atrovirens)

Horsetail (Equisetum species)

Marsh marigold (Caltha palustris)

Mistflower (Eupatorium colestinum)

Monkey flower (Mimulus ringens)

New England aster (Aster novae-anglia)

New York aster (aster novi belgii)

Obedient plant (Physotegia virginiana)

Royal fern (Osmunda regalis)

Seedbox (Ludwigia alternifolia)

Sensitive fern (Onoclea sensibilis)

Sneezeweed (Helenium autumnale)

Soft rush (Juncus effusus)

Swamp milkweed (Asclepias incarnata)

Swamp rose mallow (Hibiscus moscheutos)

Swamp sunflower (Helianthus angustifolius)

Switchgrass (Panicum virgatum)

Threadleaf coreopsis (Coreopsis Verticillata)

Tussock sedge (Carex stricta)

White turtlehead (Chelone glabra)

Woolgrass (Scirpus cyperinus)

Shrubs

American beautyberry (Calicarpa americana)

Arrowwood (Viburnum dentatum)

Black chokeberry (Aronia melanocarpa)

Broad-leaved meadowsweet (Spirea latifolia)

Buttonbush (Cephalanthus occidentalis)

Elderberry (Sambucus canadansis)

Inkberry (Ilex glabra)

Narrow-leaved meadowsweet (Spirea alba)

Ninebark (Physocarpus opulifolius)

Possumhaw (Viburnum nudum)

Red-osier dogwood (Cornus sericea)

St. Johnswort (Hypericum densiflorium)

Silky dogwood (Cornus amomum)

Smooth alder (Alnus serrulata)

Spicebush (Lindera benzoin)

Swamp azalea (Rhododendron viscosum)

١,

Swamp rose (Rosa palustris)

Sweet pepperbush (Clethra alnifolia)

Wild raisin (Viburnum cassinoides)

Winterberry (Ilex verticillata)

Virginia sweetspire (Itea virginica)