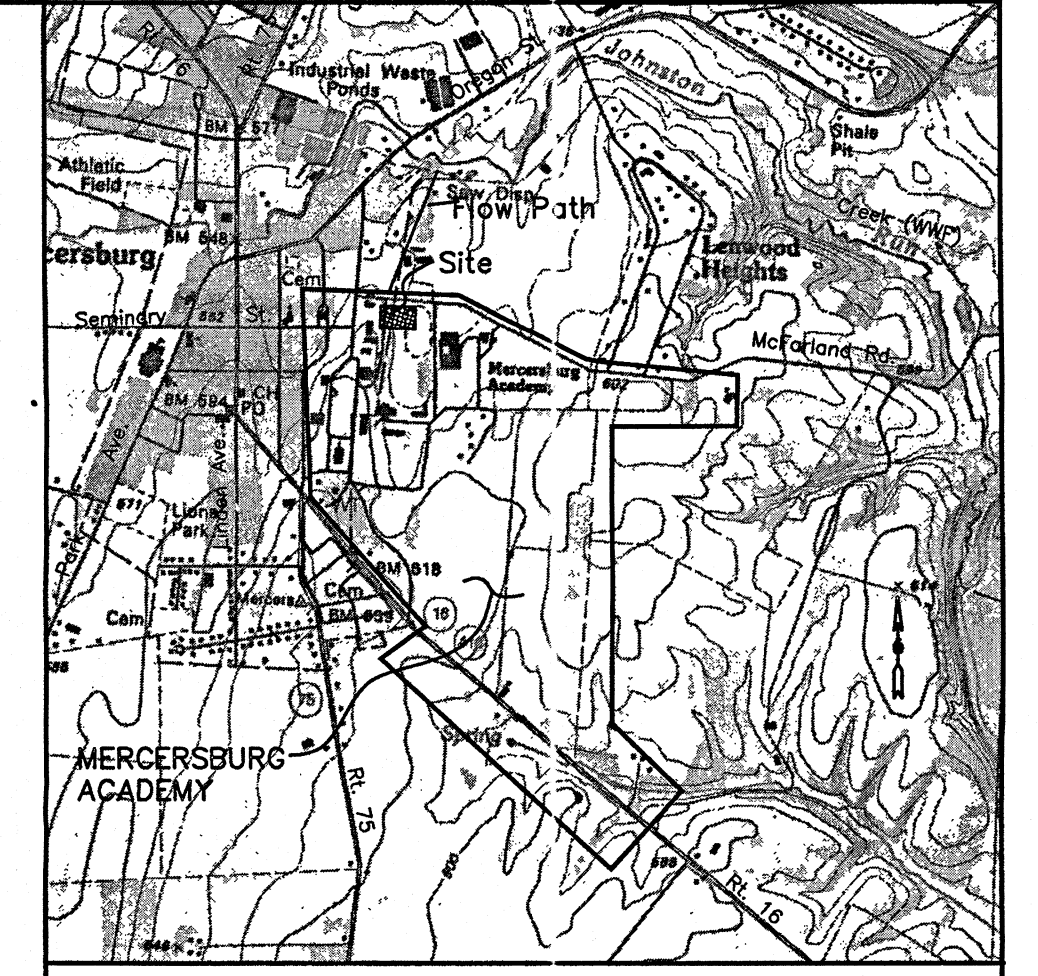
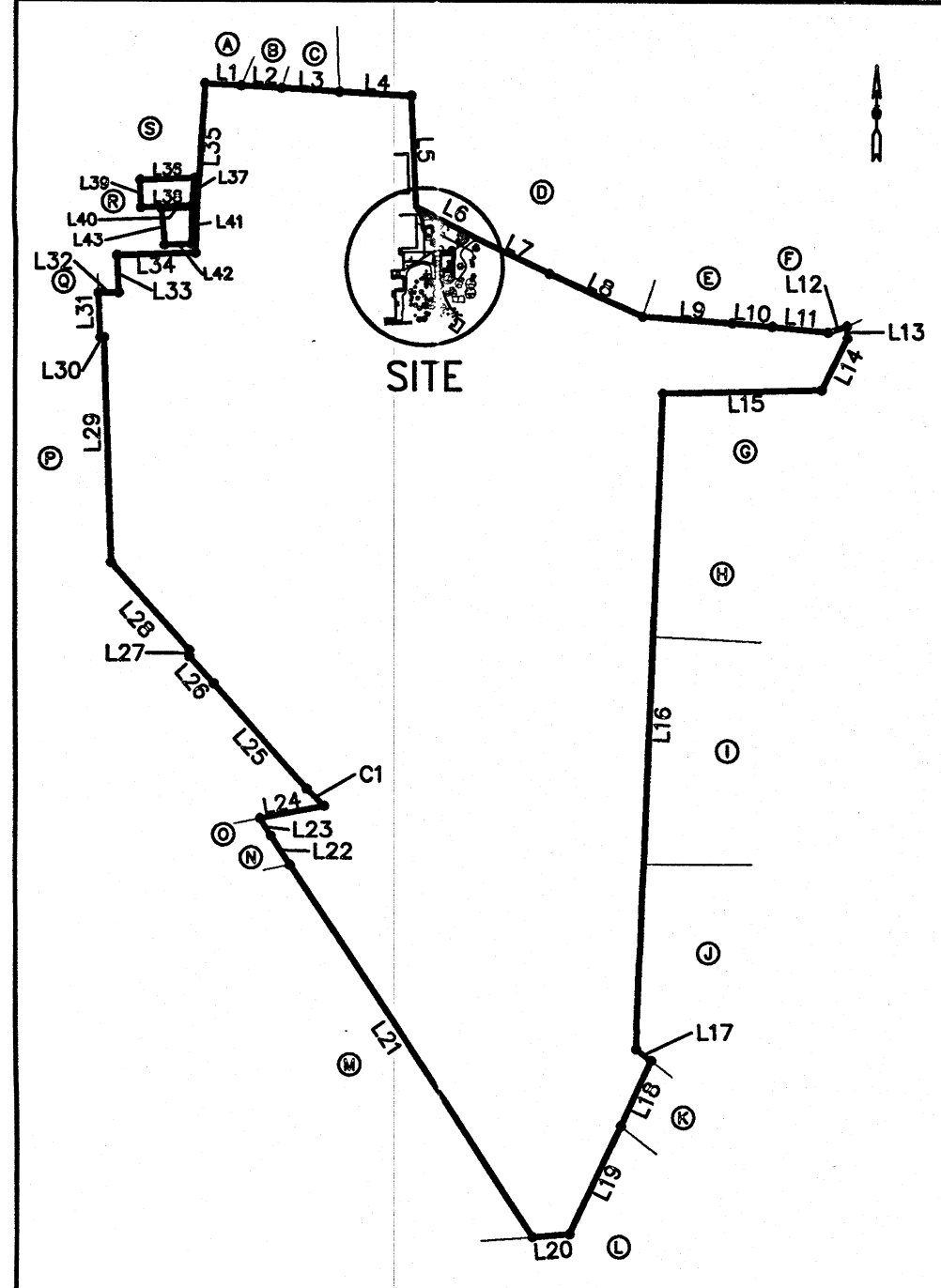


UPI #14-3A00.-011.-000000

# PRELIMINARY/FINAL LAND DEVELOPMENT PLAN FOR MERCERSBURG ACADEMY HEALTH CENTER



FRANKLIN COUNTY PLANNING COMMISSION  
MAR 1 2017  
REVIEWED  
Secretary *Dee Pomroy*

VICINITY MAP: SCALE 1" = 2000'  
REVIEWED BY THE FRANKLIN COUNTY PLANNING COMMISSION ON THIS \_\_\_\_\_ DAY OF \_\_\_\_\_ 2015  
REVIEWED BY THE TOWNSHIP PLANNING COMMISSION ON THIS 15th DAY OF March 2015  
*Chad J. Flory*  
*Paul A. Minter*  
APPROVED BY THE TOWNSHIP SUPERVISORS ON THIS 10th DAY OF April 2015  
*Mark L. ...*  
*Dwight ...*

INDEX MAP: SCALE 1" = 1000'

LINE TABLE

| LINE | BEARING       | LENGTH |
|------|---------------|--------|
| L1   | S 88°42'30" E | 195.34 |
| L2   | S 88°20'00" E | 224.37 |
| L3   | S 88°30'00" E | 303.26 |
| L4   | S 88°47'04" E | 400.00 |
| L5   | S 88°27'04" E | 815.99 |
| L6   | S 87°17'45" E | 308.44 |
| L7   | S 84°24'26" E | 441.02 |
| L8   | S 85°31'00" E | 588.43 |
| L9   | S 85°09'30" E | 498.43 |
| L10  | S 85°22'26" E | 223.47 |
| L11  | S 85°18'00" E | 111.38 |
| L12  | S 85°18'00" E | 111.38 |
| L13  | S 85°18'00" E | 111.38 |
| L14  | S 85°18'00" E | 111.38 |
| L15  | S 85°18'00" E | 111.38 |
| L16  | S 85°18'00" E | 111.38 |
| L17  | S 85°18'00" E | 111.38 |
| L18  | S 85°18'00" E | 111.38 |
| L19  | S 85°18'00" E | 111.38 |
| L20  | S 85°18'00" E | 111.38 |
| L21  | S 85°18'00" E | 111.38 |
| L22  | S 85°18'00" E | 111.38 |
| L23  | S 85°18'00" E | 111.38 |
| L24  | S 85°18'00" E | 111.38 |
| L25  | S 85°18'00" E | 111.38 |
| L26  | S 85°18'00" E | 111.38 |
| L27  | S 85°18'00" E | 111.38 |
| L28  | S 85°18'00" E | 111.38 |
| L29  | S 85°18'00" E | 111.38 |
| L30  | S 85°18'00" E | 111.38 |
| L31  | S 85°18'00" E | 111.38 |
| L32  | S 85°18'00" E | 111.38 |
| L33  | S 85°18'00" E | 111.38 |
| L34  | S 85°18'00" E | 111.38 |
| L35  | S 85°18'00" E | 111.38 |
| L36  | S 85°18'00" E | 111.38 |
| L37  | S 85°18'00" E | 111.38 |
| L38  | S 85°18'00" E | 111.38 |
| L39  | S 85°18'00" E | 111.38 |
| L40  | S 85°18'00" E | 111.38 |
| L41  | S 85°18'00" E | 111.38 |
| L42  | S 85°18'00" E | 111.38 |
| L43  | S 85°18'00" E | 111.38 |

PROPERTY OWNERS

| NUMBER | PROPERTY OWNER               | NUMBER | PROPERTY OWNER                |
|--------|------------------------------|--------|-------------------------------|
| 1      | MERCERSBURG BUILDER'S SUPPLY | 11     | WICENT H. RHODES, JR.         |
| 2      | DONALD E. STONER             | 12     | HELEN W. KUNGER ESTATE        |
| 3      | DAVID L. MCLUCAS             | 13     | WOODROW W. ROCK               |
| 4      | JACK K. ROCK, ET AL.         | 14     | FAIRVIEW CEMETERY ASSOCIATION |
| 5      | LEWIS W. HIGHTS              | 15     | FAIRVIEW CEMETERY ASSOCIATION |
| 6      | CENTINEL SUBDIVISION         | 16     | N/F                           |
| 7      | STIVA E. SITES               | 17     | TUSARORA SCHOOL DISTRICT      |
| 8      | J. ELWOOD ROCKWELL           | 18     | TRINITY REFORMED CHURCH       |
| 9      | J. ELWOOD ROCKWELL           | 19     | N/F                           |
| 10     | DONALD S. HILL               | 20     | CLIFTON F. STANSBERRY         |



**AGRICULTURAL NUISANCE DISCLAIMER**  
THE LANDS DEPICTED ON THIS SUBDIVISION/LAND DEVELOPMENT MAY BE LOCATED ADJACENT TO OR BE INVOLVED IN A NORMAL AGRICULTURAL OPERATION AS DEFINED BY PENNSYLVANIA ACT 133 OF 1982, AS AMENDED, "THE RIGHT TO FARM LAW." IF YOU PURCHASE LAND THAT IS DEPICTED ON THIS SUBDIVISION/LAND DEVELOPMENT AND SAID LANDS ARE INVOLVED IN A NORMAL AGRICULTURAL OPERATION OR LOCATED ADJACENT TO LANDS PROTECTED BY ACT 133 OF 1982, AS AMENDED, YOU MAY BE PROHIBITED FROM FILING A NUISANCE ACTION AGAINST THE OPERATORS OF THE NORMAL AGRICULTURAL OPERATION. IN ADDITION, YOU MAY BE SUBJECT TO INCONVENIENCE, DISCOMFORT AND THE POSSIBILITY OF INJURY TO PROPERTY AND HEALTH ARISING FROM NORMAL AND ACCEPTED AGRICULTURAL PRACTICES AND OPERATIONS, INCLUDING, BUT NOT LIMITED TO, NOISE, DUST, ODOR, THE OPERATION OF MACHINERY OF ANY KIND INCLUDING AIRCRAFT, THE STORAGE AND DISPOSAL OF MANURE, AND THE APPLICATION OF FERTILIZERS, SOIL AMENDMENTS, HERBICIDES AND PESTICIDES.

- NOTES:
1. COMMERCIAL/INDUSTRIAL USES  
LOT SIZE = 40,000 SQUARE FEET  
LOT WIDTH = 130 FEET  
LOT DEPTH = 250 FEET  
FRONT SETBACK = 50 FEET  
SIDE SETBACK = 25 FEET  
REAR SETBACK = 30 FEET  
BUILDING HEIGHT = 35 FEET
  2. THIS PLAN IS OF THE HEALTH CENTER REMODELING PROJECT. THE EXTERIOR IMPROVEMENTS INCLUDE A HANDICAP RAMP, NEW MAIN ENTRANCE, RE-ROUTED SIDEWALKS, AND NEW LANDSCAPING.
  3. PROJECT IS SERVED BY PUBLIC WATER AND SEWER.
  4. HYDRIC SOILS ARE NOT PRESENT ON THE SITE PER THE SOILS REPORT. THERE ARE NO WETLANDS ON THIS SITE PER THE U.S. DEPARTMENT OF THE INTERIOR NATIONAL WETLANDS INVENTORY MAPPING DATED MAY 28, 2015. THERE DID NOT APPEAR TO BE ANY WETLANDS OBSERVED AT THE SITE DURING FIELD VISITS BY THE ENGINEERS AND SURVEYORS. A DETAILED WETLANDS DELINEATION HAS NOT BEEN COMPLETED WITH THIS SUBMISSION.
  5. THIS SITE IS NOT LOCATED WITHIN A FLOOD ZONE ACCORDING TO THE FEMA FLOOD INSURANCE RATE MAP (#4205500384E), EFFECTIVE DATE JANUARY 18, 2012.
  6. CONTOURS SHOWN HEREON ARE PER A SURVEY PERFORMED BY WILLIAM A. BRINDLE ASSOCIATES, INC. AND EXISTING ACADEMY MAPPING. BENCHMARK = CORNER OF CONCRETE GENERATOR PAD, ELEVATION 558.93.
  7. THE PROJECT SITE IS NOT LOCATED WITHIN ANY AGRICULTURAL DISTRICT.
  8. A 15 FOOT WIDE ACCESS EASEMENT IS PROVIDED AROUND ALL STORMWATER FACILITIES SHOWN HEREON. TOWNSHIP OFFICIALS SHALL BE PERMITTED TO INSPECT AND CORRECT IF NECESSARY THE STORMWATER MANAGEMENT FACILITIES SHOWN HEREON.
  9. MERCERSBURG ACADEMY SHALL OWN AND MAINTAIN ALL STORMWATER PIPING WITHIN THE TOWNSHIP RIGHT-OF-WAY AS SHOWN HEREON. MAINTENANCE SHALL INCLUDE ROUTINE, AT LEAST TWICE A YEAR, INSPECTIONS OF PIPES AND INLETS. ACADEMY SHALL BE RESPONSIBLE FOR CLEANING AND REPAIR OF PIPES AND INLETS IN TOWNSHIP RIGHT-OF-WAY. SHEET C-9 HAS A DETAILED O&M SPECIFICATIONS FOR ALL STORMWATER FACILITIES SHOWN HEREON.
  10. ALL MATERIALS AND DETAILS SPECIFIED HEREON FOR ALL STORMWATER MANAGEMENT FACILITIES SHOWN HEREON SHALL NOT BE ALTERED DURING CONSTRUCTION WITHOUT THE WRITTEN APPROVAL OF THE TOWNSHIP SUPERVISORS.
  11. OWNER/DEVELOPER: MERCERSBURG ACADEMY  
C/O BRIAN K. NORDYKE, P.E.  
300 EAST SEMINARY STREET  
MERCERSBURG, PA. 17235

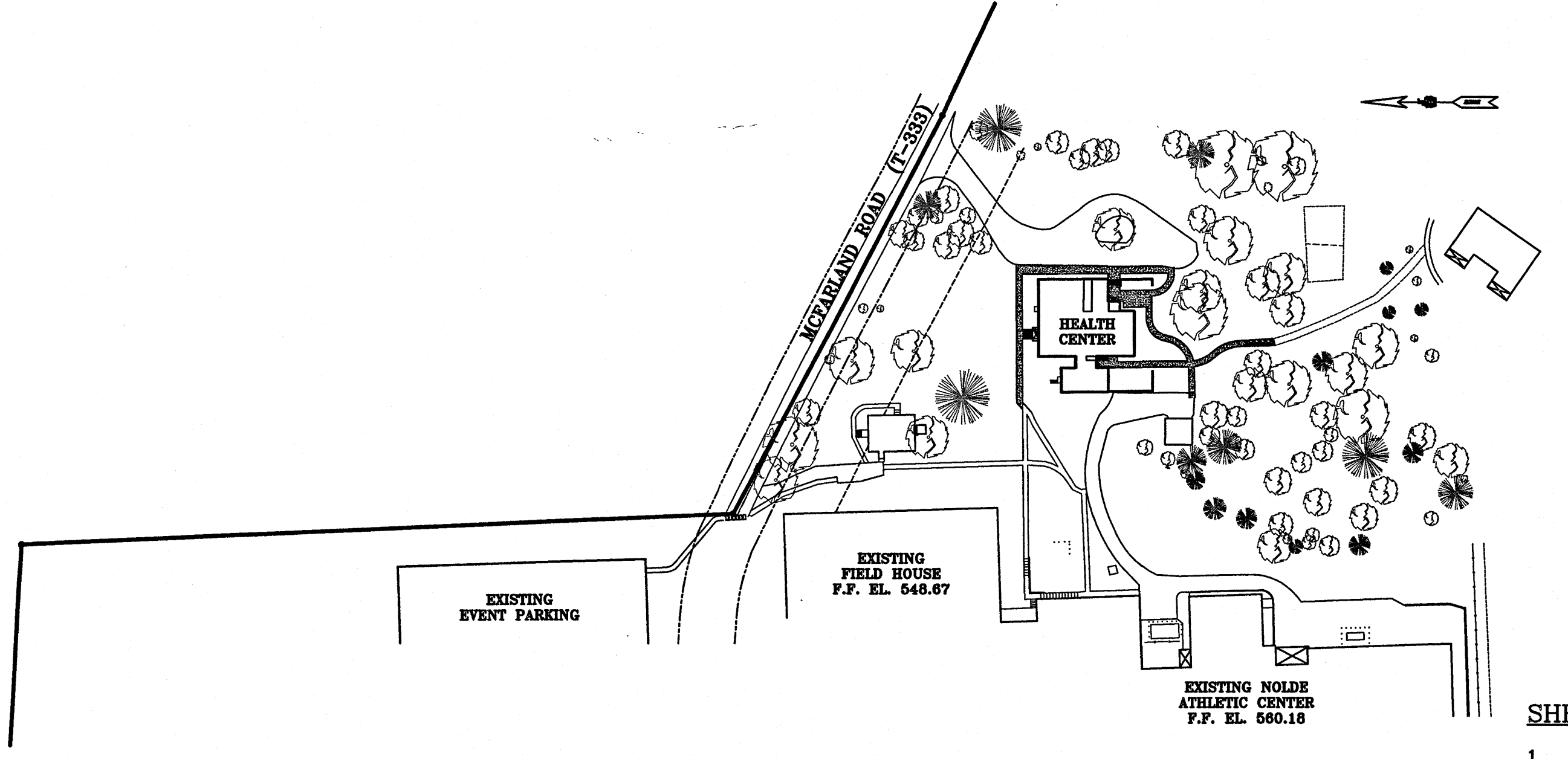
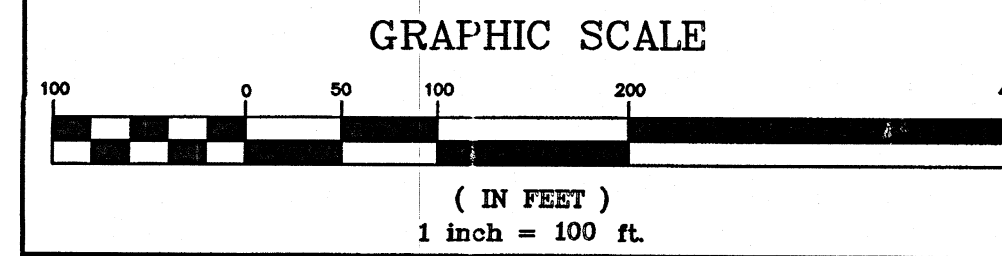
CURVE TABLE

| CURVE | RADIUS    | LENGTH | TANGENT | CHORD  | BEARING       |
|-------|-----------|--------|---------|--------|---------------|
| CI    | 11374.281 | 133.13 | 85.82   | 133.08 | N 44°33'30" W |

SOILS INFORMATION

| SOILS                             | SLOPE | IN     | SOIL TYPE | HYDRIC | LIMITATIONS  |
|-----------------------------------|-------|--------|-----------|--------|--|
| CLARKSBURG SILTY LOAM             | CSA   | 0 TO 1 | C         | NO     | DEPTH TO SATURATED ZONE<br>DEPTH TO THICK CEMENTED PAN<br>DEPTH TO THICK CEMENTED PAN<br>LOW STRENGTH<br>FROST ACTION<br>DEPTH TO HARD BEDROCK<br>DEPTH TO SATURATED ZONE<br>DEPTH TO BEDROCK<br>DUSTY - DUSTY SOILS DURING CONSTRUCTION SHALL BE WATERED DOWN TO ELIMINATE DUST LEAVING THE SITE.<br>FLOODING - AREAS WHERE FLOODING OCCURS DURING CONSTRUCTION SHALL BE DEWATERED BY A PUMPED WATER FILTER BAG.<br>FROST ACTION - EXCAVATE CUTS TO BELOW FROST LINE.<br>HARD TO PACK - SOILS THAT WILL NOT COMPACT TO THE REQUIRED DENSITIES SHALL BE REMOVED AND REPLACED WITH A SUITABLE FILL MATERIAL.<br>LARGE STONE CONTENT - SOILS THAT HAVE A HIGH LARGE STONE CONTENT SHALL BE REMOVED AND REPLACED WITH A SUITABLE FILL MATERIAL.<br>LOW STRENGTH - SOILS TO BE UNDER STRUCTURES AND ROADWAYS WITH LOW STRENGTH SHALL BE REPLACED WITH A SUITABLE FILL MATERIAL AS DIRECTED BY A QUALIFIED GEOTECHNICAL ENGINEER.<br>PIPING - SOILS WITH THE POTENTIAL FOR PIPING SHALL BE NOT USED FOR BASIN BERMS. SOILS SHALL BE REPLACED WITH A SUITABLE FILL MATERIAL.<br>SHRINK - SWELL - EXCAVATE CUTS TO AN ADEQUATE DEPTH TO AVOID SHRINK - SWELL ACTION FROM AFFECTING STRUCTURES AND PAVED AREAS ON SITE.<br>SLOPE - ON ALL SLOPES GREATER THAN 3:1 A TURF REINFORCEMENT MATTING SHALL BE USED.<br>SEEPAGE - SOILS THAT RUN THE RISK OF SEEPAGE SHALL NOT BE USED FOR BASIN BERMS. SOIL WITH A HIGH SEEPAGE RISK SHALL BE REMOVED AND REPLACED WITH A SUITABLE FILL MATERIAL.<br>SOLUBLE BEDROCK - SOLUBLE BEDROCK IS PRONE TO SINNKLE FORMATION. AVOID INFILTRATION IN THESE AREAS. IF SINNKLES BECOME AN ISSUE ON SITE DURING CONSTRUCTION STOP WORK AND CONSULT A GEO-TECHNICAL ENGINEER AND/OR A GEOLOGIST ON HOW TO BEST WORK WITH THE SITE.<br>THIN LAYER - IF DURING CONSTRUCTION IT IS DISCOVERED THAT THERE IS NOT SUITABLE MATERIAL ON SITE, SUITABLE FILL MATERIAL SHALL BE BROUGHT IN FROM A NEARBY SITE.<br>TOO CLAYEY - SOILS WITH A HIGH CLAY CONTENT SHALL BE REMOVED FROM THE SITE AND REPLACED WITH A SUITABLE FILL MATERIAL.<br>UNSTABLE EXCAVATION WALLS - WHEN EXCAVATING IN UNSTABLE SOILS SPECIAL PRECAUTIONS SHALL BE USED TO PREVENT EXCAVATION WALLS FROM COLLAPSING SUCH AS TERRACING EXCAVATION OR USING A TRENCH BOX. |
| EDOM-CARBO SILTY CLAY LOAMS       | EEB   | 3 TO 6 | C         | NO     | DEPTH TO SATURATED ZONE<br>DEPTH TO THICK CEMENTED PAN<br>DEPTH TO THICK CEMENTED PAN<br>LOW STRENGTH<br>FROST ACTION<br>DEPTH TO HARD BEDROCK<br>DEPTH TO SATURATED ZONE<br>DEPTH TO BEDROCK<br>DUSTY - DUSTY SOILS DURING CONSTRUCTION SHALL BE WATERED DOWN TO ELIMINATE DUST LEAVING THE SITE.<br>FLOODING - AREAS WHERE FLOODING OCCURS DURING CONSTRUCTION SHALL BE DEWATERED BY A PUMPED WATER FILTER BAG.<br>FROST ACTION - EXCAVATE CUTS TO BELOW FROST LINE.<br>HARD TO PACK - SOILS THAT WILL NOT COMPACT TO THE REQUIRED DENSITIES SHALL BE REMOVED AND REPLACED WITH A SUITABLE FILL MATERIAL.<br>LARGE STONE CONTENT - SOILS THAT HAVE A HIGH LARGE STONE CONTENT SHALL BE REMOVED AND REPLACED WITH A SUITABLE FILL MATERIAL.<br>LOW STRENGTH - SOILS TO BE UNDER STRUCTURES AND ROADWAYS WITH LOW STRENGTH SHALL BE REPLACED WITH A SUITABLE FILL MATERIAL AS DIRECTED BY A QUALIFIED GEOTECHNICAL ENGINEER.<br>PIPING - SOILS WITH THE POTENTIAL FOR PIPING SHALL BE NOT USED FOR BASIN BERMS. SOILS SHALL BE REPLACED WITH A SUITABLE FILL MATERIAL.<br>SHRINK - SWELL - EXCAVATE CUTS TO AN ADEQUATE DEPTH TO AVOID SHRINK - SWELL ACTION FROM AFFECTING STRUCTURES AND PAVED AREAS ON SITE.<br>SLOPE - ON ALL SLOPES GREATER THAN 3:1 A TURF REINFORCEMENT MATTING SHALL BE USED.<br>SEEPAGE - SOILS THAT RUN THE RISK OF SEEPAGE SHALL NOT BE USED FOR BASIN BERMS. SOIL WITH A HIGH SEEPAGE RISK SHALL BE REMOVED AND REPLACED WITH A SUITABLE FILL MATERIAL.<br>SOLUBLE BEDROCK - SOLUBLE BEDROCK IS PRONE TO SINNKLE FORMATION. AVOID INFILTRATION IN THESE AREAS. IF SINNKLES BECOME AN ISSUE ON SITE DURING CONSTRUCTION STOP WORK AND CONSULT A GEO-TECHNICAL ENGINEER AND/OR A GEOLOGIST ON HOW TO BEST WORK WITH THE SITE.<br>THIN LAYER - IF DURING CONSTRUCTION IT IS DISCOVERED THAT THERE IS NOT SUITABLE MATERIAL ON SITE, SUITABLE FILL MATERIAL SHALL BE BROUGHT IN FROM A NEARBY SITE.<br>TOO CLAYEY - SOILS WITH A HIGH CLAY CONTENT SHALL BE REMOVED FROM THE SITE AND REPLACED WITH A SUITABLE FILL MATERIAL.<br>UNSTABLE EXCAVATION WALLS - WHEN EXCAVATING IN UNSTABLE SOILS SPECIAL PRECAUTIONS SHALL BE USED TO PREVENT EXCAVATION WALLS FROM COLLAPSING SUCH AS TERRACING EXCAVATION OR USING A TRENCH BOX. |
| HAGERSTOWN-CARBO SILTY CLAY LOAMS | HEB   | 3 TO 6 | B         | NO     | DEPTH TO SATURATED ZONE<br>DEPTH TO THICK CEMENTED PAN<br>DEPTH TO THICK CEMENTED PAN<br>LOW STRENGTH<br>FROST ACTION<br>DEPTH TO HARD BEDROCK<br>DEPTH TO SATURATED ZONE<br>DEPTH TO BEDROCK<br>DUSTY - DUSTY SOILS DURING CONSTRUCTION SHALL BE WATERED DOWN TO ELIMINATE DUST LEAVING THE SITE.<br>FLOODING - AREAS WHERE FLOODING OCCURS DURING CONSTRUCTION SHALL BE DEWATERED BY A PUMPED WATER FILTER BAG.<br>FROST ACTION - EXCAVATE CUTS TO BELOW FROST LINE.<br>HARD TO PACK - SOILS THAT WILL NOT COMPACT TO THE REQUIRED DENSITIES SHALL BE REMOVED AND REPLACED WITH A SUITABLE FILL MATERIAL.<br>LARGE STONE CONTENT - SOILS THAT HAVE A HIGH LARGE STONE CONTENT SHALL BE REMOVED AND REPLACED WITH A SUITABLE FILL MATERIAL.<br>LOW STRENGTH - SOILS TO BE UNDER STRUCTURES AND ROADWAYS WITH LOW STRENGTH SHALL BE REPLACED WITH A SUITABLE FILL MATERIAL AS DIRECTED BY A QUALIFIED GEOTECHNICAL ENGINEER.<br>PIPING - SOILS WITH THE POTENTIAL FOR PIPING SHALL BE NOT USED FOR BASIN BERMS. SOILS SHALL BE REPLACED WITH A SUITABLE FILL MATERIAL.<br>SHRINK - SWELL - EXCAVATE CUTS TO AN ADEQUATE DEPTH TO AVOID SHRINK - SWELL ACTION FROM AFFECTING STRUCTURES AND PAVED AREAS ON SITE.<br>SLOPE - ON ALL SLOPES GREATER THAN 3:1 A TURF REINFORCEMENT MATTING SHALL BE USED.<br>SEEPAGE - SOILS THAT RUN THE RISK OF SEEPAGE SHALL NOT BE USED FOR BASIN BERMS. SOIL WITH A HIGH SEEPAGE RISK SHALL BE REMOVED AND REPLACED WITH A SUITABLE FILL MATERIAL.<br>SOLUBLE BEDROCK - SOLUBLE BEDROCK IS PRONE TO SINNKLE FORMATION. AVOID INFILTRATION IN THESE AREAS. IF SINNKLES BECOME AN ISSUE ON SITE DURING CONSTRUCTION STOP WORK AND CONSULT A GEO-TECHNICAL ENGINEER AND/OR A GEOLOGIST ON HOW TO BEST WORK WITH THE SITE.<br>THIN LAYER - IF DURING CONSTRUCTION IT IS DISCOVERED THAT THERE IS NOT SUITABLE MATERIAL ON SITE, SUITABLE FILL MATERIAL SHALL BE BROUGHT IN FROM A NEARBY SITE.<br>TOO CLAYEY - SOILS WITH A HIGH CLAY CONTENT SHALL BE REMOVED FROM THE SITE AND REPLACED WITH A SUITABLE FILL MATERIAL.<br>UNSTABLE EXCAVATION WALLS - WHEN EXCAVATING IN UNSTABLE SOILS SPECIAL PRECAUTIONS SHALL BE USED TO PREVENT EXCAVATION WALLS FROM COLLAPSING SUCH AS TERRACING EXCAVATION OR USING A TRENCH BOX. |

**SOILS LIMITATIONS AND RESOLUTIONS**  
DEPTH TO BEDROCK - EXCAVATIONS WHERE DEPTH TO BEDROCK BECOMES AN ISSUE SHALL BE DEALT WITH ON SITE ON AN AS NEEDED BASIS.  
DEPTH TO SATURATED ZONE - A PUMPED WATER FILTER BAG SHALL BE USED TO REMOVE ANY WATER FROM EXCAVATION DURING CONSTRUCTION.  
DEPTH TO HARD BEDROCK - EXCAVATIONS WHERE DEPTH TO BEDROCK BECOMES AN ISSUE SHALL BE DEALT WITH ON SITE ON AN AS NEEDED BASIS.  
DEPTH TO THIN CEMENTED PAN - NATURALLY COMPACTED SOILS SHALL BE EXCAVATED AND REMOVED FROM THE SITE AND REPLACED WITH A SUITABLE FILL MATERIAL.  
DEPTH TO THICK CEMENTED PAN - NATURALLY COMPACTED SOILS SHALL BE EXCAVATED AND REMOVED FROM THE SITE AND REPLACED WITH A SUITABLE FILL MATERIAL.  
DUSTY - DUSTY SOILS DURING CONSTRUCTION SHALL BE WATERED DOWN TO ELIMINATE DUST LEAVING THE SITE.  
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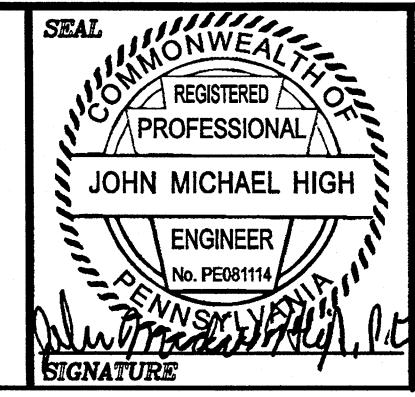
- SHEET INDEX:
- 1 COVER SHEET
  - 2 EXISTING CONDITIONS/DEMOLITION PLAN
  - 3 E&S CONTROL PLAN
  - 4 PCSM SITE PLAN
  - 5 E&S NOTES/DETAILS
  - 6 PCSM NOTES/DETAILS

REVISION

| DATE    | NO. | REVISION  |
|---------|-----|---|
| 2/15/17 | 1   | REVISED PER F.C.C.D. COMMENTS DATED 2/04/17 AND TWP. ENGINEERS COMMENTS DATED 2/14/17 |

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41 S Antrim Way  
Greencastle, PA 17225  
PH 717 597-0744  
FX 717 597-0535

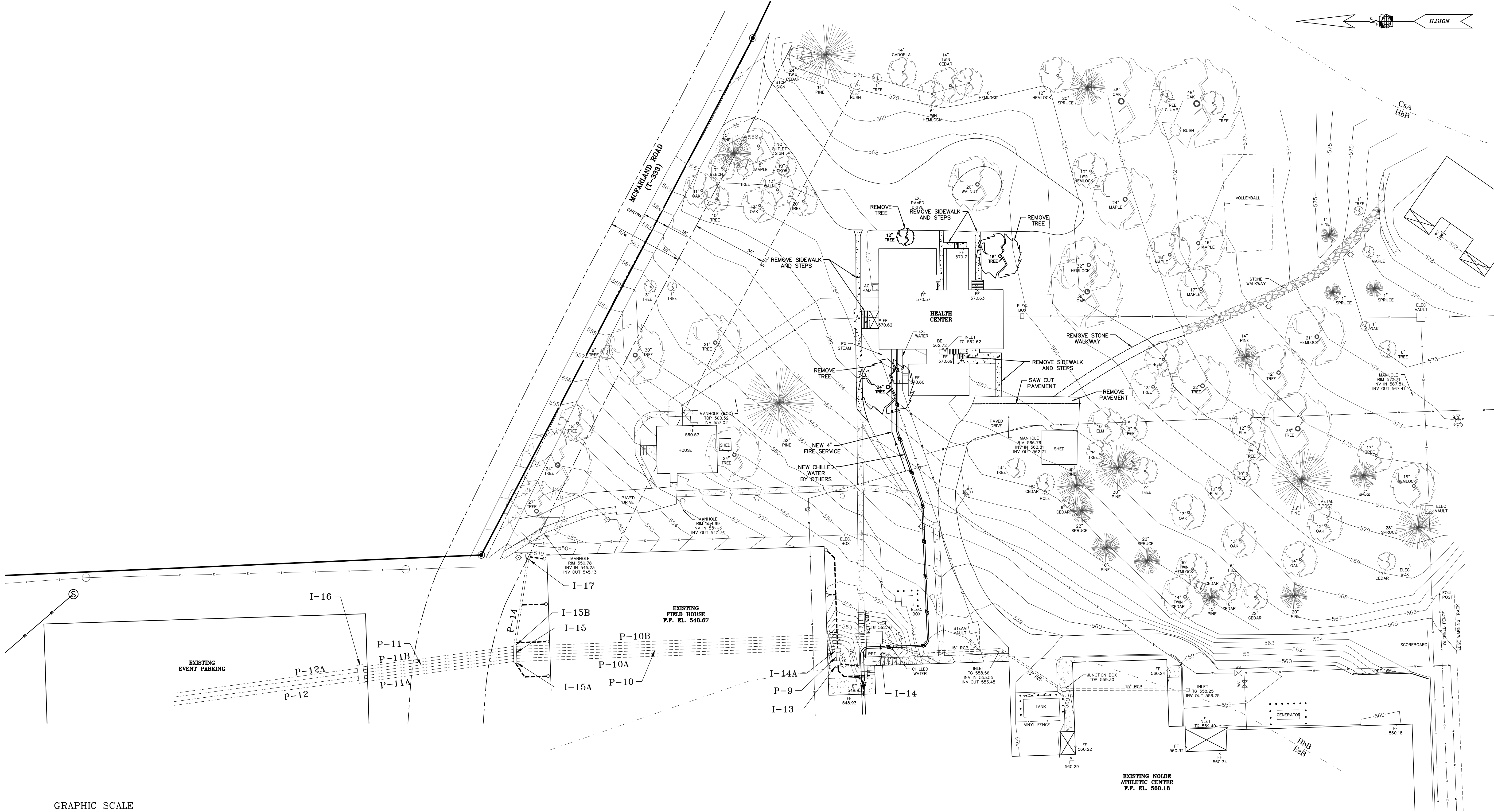


BEING PART OF FRANKLIN COUNTY DEED BOOK VOLUME 264, PAGE 117; TAX MAP 3A, PARCEL 11

PRELIMINARY - FINAL  
COVER SHEET  
FOR  
MERCERSBURG ACADEMY  
MONTGOMERY TOWNSHIP  
FRANKLIN COUNTY, PA

SHEET 1  
SCALE 1" = 100'  
DATE JANUARY, 2017  
JOB NO. 5045HC PLANS





GRAPHIC SCALE



( IN FEET )  
1 inch = 30 ft.

| DATE | NO. | REVISION |
|------|-----|----------|
|      |     |          |
|      |     |          |
|      |     |          |
|      |     |          |

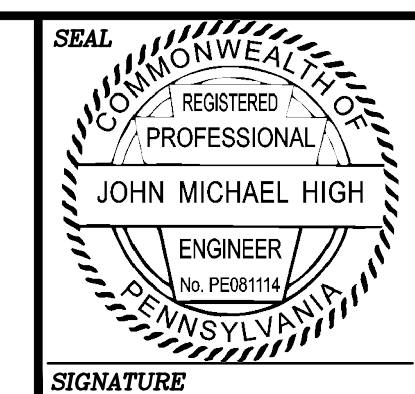
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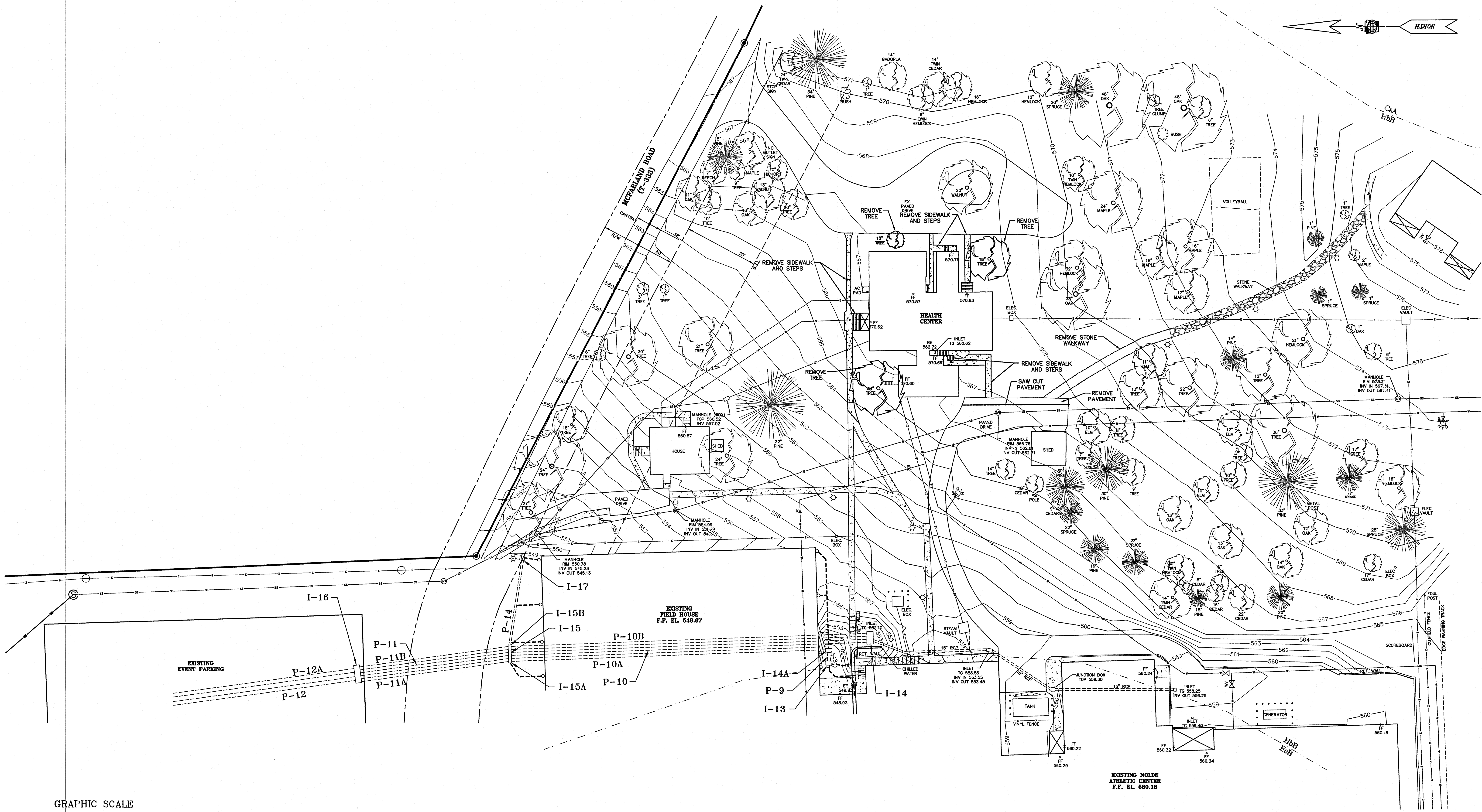


**SUPPLEMENTAL DRAWING FOR  
HEALTH CENTER UTILITIES  
FOR  
MERCERSBURG ACADEMY**

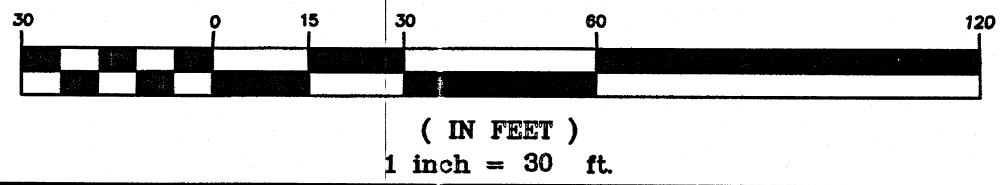
MONTGOMERY TOWNSHIP      FRANKLIN COUNTY, PA

|         |              |
|---------|--------------|
| SHEET   | 1            |
| SCALE   | 1" = 30'     |
| DATE    | AUGUST, 2017 |
| JOB NO. | 5045HCSPI    |





GRAPHIC SCALE



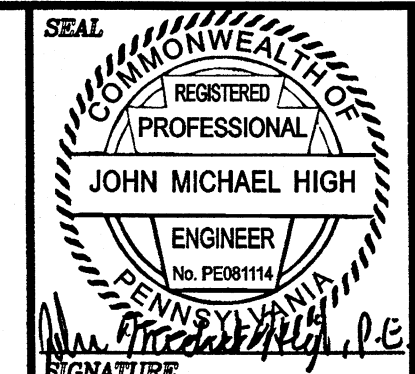
| DATE   | NO. | REVISION  |
|--|-----|---|
| 2/15/17  | 1   | REMSD PER F.C.D. COMMENTS DATED 2/06/17 AND TWP. ENGINEERS COMMENTS DATED 2/14/17 |
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PRELIMINARY - FINAL  
 EXISTING CONDITIONS/DEMOLITION PLAN  
 FOR  
**MERCERSBURG ACADEMY**  
 MONTGOMERY TOWNSHIP      FRANKLIN COUNTY, PA

|         |               |
|---------|---------------|
| SHEET   | 2             |
| SCALE   | 1" = 30'      |
| DATE    | JANUARY, 2017 |
| JOB NO. | 5045HC PLANS  |











**EROSION AND SEDIMENTATION CONTROL NARRATIVE:**

THE SEQUENCE OF CONSTRUCTION IS IMPORTANT IN THE EROSION AND SEDIMENTATION CONTROL PLAN OF THIS PROJECT. THE CONSTRUCTION OF THE EROSION AND SEDIMENTATION CONTROL MEASURES SHALL BE COMPLETED PRIOR TO ANY OTHER CONSTRUCTION ACTIVITIES ON-SITE.

THE DEVELOPER SHALL ASSUME THE RESPONSIBILITY FOR BOTH IMPLEMENTING AND MAINTAINING THE FOLLOWING EROSION AND SEDIMENTATION CONTROL MEASURES DURING THE DEVELOPMENT SHOWN ON THE PLAN SET.

CLEARING, GRUBBING, AND TOPSOIL STRIPPING SHALL BE LIMITED TO THOSE AREAS DESCRIBED IN EACH STAGE OF THE CONSTRUCTION SEQUENCE. GENERAL SITE CLEARING, GRUBBING AND TOPSOIL STRIPPING MAY NOT COMMENCE IN ANY STAGE OR PHASE OF THE PROJECT UNTIL THE E&S BMP'S SPECIFIED BY THE CONSTRUCTION SEQUENCE FOR THAT STAGE OR PHASE HAVE BEEN INSTALLED AND ARE FUNCTIONING AS DESCRIBED IN THIS DOCUMENT.

**A. CONSTRUCTION SEQUENCE**  
ALL EARTH DISTURBANCE ACTIVITIES SHALL PROCEED IN ACCORDANCE WITH THE FOLLOWING SEQUENCE. EACH STAGE SHALL BE COMPLETED AND IMMEDIATELY STABILIZED BEFORE ANY FOLLOWING STAGE IS INITIATED. CLEARING, GRUBBING AND TOPSOIL STRIPPING SHALL BE LIMITED ONLY TO THOSE AREAS DESCRIBED IN EACH STAGE. ANY DEVIATION FROM THE FOLLOWING SEQUENCE MUST BE APPROVED IN WRITING FROM THE FRANKLIN COUNTY CONSERVATION DISTRICT.

- GENERAL CONSTRUCTION SEQUENCE**
- FIELD MARK ALL LIMITS OF DISTURBANCE, WATERS OF THE COMMONWEALTH, SPECIAL PROTECTION AREAS, AND AREAS FOR INFILTRATION AS SHOWN HERE ON.
  - AT LEAST 7 DAYS BEFORE STARTING ANY EARTH DISTURBANCE ACTIVITIES, INCLUDING CLEARING AND GRUBBING, THE OWNER AND/OR OPERATOR SHALL INVOKE ALL CONTRACTORS, THE LANDOWNER, ALL APPROPRIATE MUNICIPAL OFFICIALS, THE E&S PLAN PREPARER, PCSM PLAN PREPARER, THE LICENSED PROFESSIONAL RESPONSIBLE FOR OVERSIGHT OF CRITICAL STAGES OF IMPLEMENTATION OF THE PCSM PLAN, AND A REPRESENTATIVE OF THE FRANKLIN COUNTY CONSERVATION DISTRICT TO AN ON-SITE PRE-CONSTRUCTION MEETING.
  - AT LEAST 3 DAYS BEFORE STARTING ANY EARTH DISTURBANCE ACTIVITIES, ALL CONTRACTORS INVOLVED IN THOSE ACTIVITIES SHALL NOTIFY THE PENNSYLVANIA ONE CALL SYSTEM INCORPORATED AT 1-800-242-1776 FOR THE LOCATION OF EXISTING UNDERGROUND UTILITIES.
  - PLACE COMPOST FILTER SOCKS AT THE LOCATIONS AND ACCORDING TO THE DETAILS SHOWN HEREON.
  - STRIP AND STOCKPILE TOPSOIL AT THE LOCATION AND ACCORDING TO THE DETAILS SHOWN HEREON. STABILIZE THE TOP SOIL BY SEEDING AND MULCHING ACCORDING TO THE STABILIZATION SPECIFICATIONS SHOWN HEREON. STOCKPILE SHALL NOT EXCEED 35 FEET IN HEIGHT AND SHALL HAVE SIDE SLOPES LESS THAN 2:1.
  - REMOVE TREES AT THE LOCATIONS SHOWN HEREON. TREES SHALL BE COMPOSTED. DEMOLISH SIDEWALKS AND STAIRS AT THE LOCATIONS SHOWN HEREON. DEBRIS FROM DEMOLITION SHALL BE REMOVED FROM THE SITE AND DISPOSED IN THE MANNER DESCRIBED HEREON.
  - BEGIN SUBGRADING FOR SIDEWALKS, HANDICAP RAMP AND DECK. CARE SHALL BE TAKEN TO NOT HIT THE EXISTING UTILITIES. PLANTING AREAS AND SOIL AMENDMENT AREAS SHALL NOT BE OVER COMPACTED.
  - ONCE SUBGRADES ARE REACHED BEGIN EXTERIOR WORK ON THE HEALTH CENTER. BEGIN INSTALLATION OF THE SIDEWALKS, HANDICAP RAMP AND MAIN ENTRANCE DECK.
  - ONCE THE SIDEWALKS, HANDICAP RAMP AND DECKING HAVE BEEN PLACED THE SOIL AMENDMENTS AND TREES CAN BE PLANTED AT THE LOCATIONS AND ACCORDING TO THE DETAILS SHOWN HEREON. CARE SHALL BE TAKEN TO NOT OVER COMPACT THE AREA DURING INSTALLATION.
  - UPON COMPLETION OF ALL EARTH DISTURBANCE ACTIVITIES AND PERMANENT STABILIZATION OF ALL DISTURBED AREAS, THE OWNER AND/OR OPERATORS SHALL CONTACT THE FRANKLIN COUNTY CONSERVATION DISTRICT FOR AN INSPECTION PRIOR TO THE REMOVAL/CONVERSION OF THE E&S BMP'S.
  - ONCE FRANKLIN COUNTY CONSERVATION DISTRICT DIRECTS, ALL TEMPORARY E&S BMP'S SHALL BE REMOVED AND ANY DISTURBED AREAS SHALL BE SEEDED AND MULCHED ACCORDING TO THE STABILIZATION SPECIFICATIONS SHOWN HEREON.
  - UPON COMPLETION OF ALL EARTH DISTURBANCE ACTIVITIES, REMOVAL OF ALL TEMPORARY BMP'S, INSTALLATION OF ALL PERMANENT PCSM BMP'S, AND PERMANENT STABILIZATION OF ALL DISTURBED AREAS, THE OWNER AND/OR OPERATORS SHALL CONTACT THE FRANKLIN COUNTY CONSERVATION DISTRICT FOR A FINAL INSPECTION.

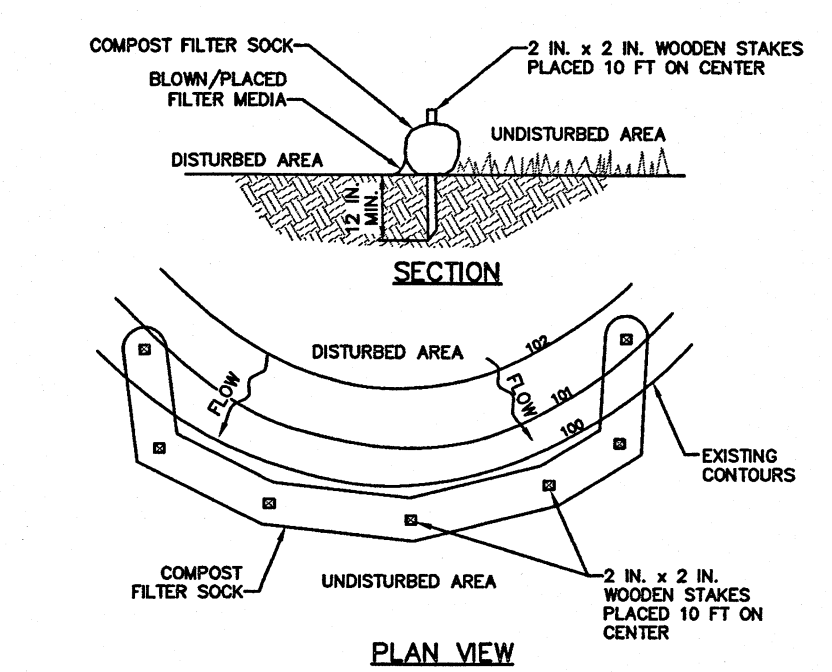
- B. STABILIZATION SPECIFICATIONS**
- UPON TEMPORARY CESSATION OF AN EARTH DISTURBANCE ACTIVITY OR ANY STAGE OR PHASE OF AN ACTIVITY WHERE A CESSATION OF EARTH DISTURBANCE ACTIVITIES WILL EXCEED 4 DAYS, THE SITE SHALL BE IMMEDIATELY SEEDED, MULCHED, OR OTHERWISE PROTECTED FROM ACCELERATED EROSION AND SEDIMENTATION PENDING FUTURE EARTH DISTURBANCE ACTIVITIES.
  - PERMANENT STABILIZATION IS DEFINED AS A MINIMUM UNIFORM 70% PERENNIAL VEGETATIVE COVER OR OTHER PERMANENT NON-VEGETATIVE COVER WITH A DENSITY SUFFICIENT TO RESIST ACCELERATED SURFACE EROSION AND SUB-SURFACE CHARACTERISTICS SUFFICIENT TO RESIST SLIDING AND OTHER MOVEMENTS.
  - TOPSOIL REQUIRED FOR THE ESTABLISHMENT OF VEGETATION SHALL BE STOCKPILED AT THE LOCATION(S) SHOWN ON THE PLAN DRAWINGS IN THE AMOUNT NECESSARY TO COMPLETE THE FINISH GRADING OF ALL EXPOSED AREAS THAT ARE TO BE STABILIZED BY VEGETATION. EACH STOCKPILE SHALL BE PROTECTED IN THE MANNER SHOWN ON THE PLAN DRAWINGS. TOPSOIL STOCKPILE HEIGHTS SHALL NOT EXCEED 35 FEET. STOCKPILE SIDE SLOPES MUST BE 2:1 OR FLATTER.
  - AREAS WHICH ARE TO BE TOPSOILED SHALL BE SCARIFIED TO A MINIMUM DEPTH OF 3 TO 5 INCHES - 6 TO 12 INCHES ON COMPACTED SOILS - PRIOR TO PLACEMENT OF TOPSOIL. AREAS TO BE VEGETATED SHALL HAVE A MINIMUM 4 INCHES OF TOPSOIL IN PLACE PRIOR TO SEEDING AND MULCHING. FILL OUTSLOPES SHALL HAVE A MINIMUM OF 2 INCHES OF TOPSOIL.
  - TOPSOIL SHOULD NOT BE PLACED WHILE THE TOPSOIL OR SUBSOIL IS IN A FROZEN OR MUDDY CONDITION, WHEN THE SUBSOIL IS EXCESSIVELY WET, OR IN A CONDITION THAT MAY OTHERWISE BE DETRIMENTAL TO PROPER GRADING AND SEEDBED PREPARATION. COMPACTED SOILS SHOULD BE SCARIFIED 6 TO 12 INCHES ALONG CONTOUR WHENEVER POSSIBLE PRIOR TO SEEDING.
  - IMMEDIATELY AFTER EARTH DISTURBANCE ACTIVITIES CEASE, THE OPERATOR SHALL STABILIZE THE DISTURBED AREAS. DURING NON-GERMINATING PERIODS, MULCH MUST BE APPLIED AT THE SPECIFIED RATES. DISTURBED AREAS WHICH ARE NOT AT FINISHED GRADE AND WHICH WILL BE RE-DISTURBED WITHIN 1 YEAR MUST BE STABILIZED IN ACCORDANCE WITH THE TEMPORARY VEGETATIVE STABILIZATION SPECIFICATIONS. DISTURBED AREAS WHICH ARE AT FINAL GRADE OR WHICH WILL NOT BE RE-DISTURBED WITHIN 1 YEAR MUST BE STABILIZED IN ACCORDANCE WITH THE PERMANENT VEGETATIVE STABILIZATION SPECIFICATIONS.
  - AN EROSION CONTROL BLANKET WILL BE INSTALLED ON ALL DISTURBED SLOPES 3:1 OR STEEPER, ALL AREAS OF CONCENTRATED FLOWS, AND DISTURBED AREAS WITHIN 50' OF A SURFACE WATER.
  - SEEDING AND MULCHING SCHEDULES:
    - TEMPORARY SEEDING SCHEDULE - THESE NOTES APPLY TO GRADED OR CLEARED AREAS THAT ARE LIKELY TO BE RE-DISTURBED OR WHERE A SHORT TERM VEGETATIVE COVER IS NEEDED OR WHERE THERE WILL BE A CESSATION OF WORK GREATER THAN FOUR (4) DAYS.  
SEEDBED PREPARATION: LOOSEN UPPER THREE INCHES OF SOIL BY RAKING, DISKING, OR OTHER ACCEPTABLE MEANS BEFORE SEEDING. PERFORM ALL CULTIVATIONS AT RIGHT ANGLES TO THE SLOPE.  
SOIL AMENDMENTS: APPLY 1 TON OF AGRICULTURAL GRADE LIMESTONE PER ACRE, PLUS FERTILIZER AT THE RATE OF 50-50-50 PER ACRE. WORK WELL INTO THE SOIL.  
SEEDING:  
SPRING (UNTIL JUNE 15):  
ANNUAL RYEGRASS 40 LB/ACRE  
OR SPRING OATS 36 LB/ACRE  
OR SPRING OATS PLUS RYEGRASS 64 LB/ACRE OATS PLUS 20 LB/ACRE ANNUAL RYEGRASS  
OR PERENNIAL RYEGRASS  
OR WINTER WHEAT 180 LB/ACRE  
OR WINTER RYE 168 LB/ACRE  
LATE SPRING/SUMMER (JUNE 16 THRU AUGUST 15)  
ANNUAL RYEGRASS 40 LB/ACRE  
OR JAPANESE OR FOXTAIL MILLET 35 LB/ACRE  
OR SUDANGRASS 40 LB/ACRE  
OR SPRING OATS 36 LB/ACRE  
OR WINTER WHEAT 180 LB/ACRE  
OR WINTER RYE 168 LB/ACRE  
LATE SUMMER/FALL (AUGUST 16 AND LATER)  
ANNUAL RYEGRASS 40 LB/ACRE  
OR WINTER RYE 168 LB/ACRE  
OR WINTER WHEAT 180 LB/ACRE

- PERMANENT SEEDING SCHEDULE - SEEDING OF THE DISTURBED AREAS SHALL TAKE PLACE IMMEDIATELY UPON THE COMPLETION OF FINAL GRADING ACTIVITIES. THESE NOTES APPLY TO GRADED OR CLEARED AREAS, NOT SUBJECT TO IMMEDIATE OR FURTHER DISTURBANCE, WHERE A PERMANENT LONG-LIVED VEGETATIVE COVER IS NEEDED.  
SEEDBED PREPARATION: LOOSEN UPPER THREE INCHES OF SOIL BY RAKING, DISKING, OR OTHER ACCEPTABLE MEANS BEFORE SEEDING. PERFORM ALL OPERATIONS AT RIGHT ANGLES TO THE SLOPE.  
SOIL AMENDMENTS: IT IS RECOMMENDED THAT SITE SPECIFIC SOIL TESTING BE PERFORMED. IN LIEU OF SOIL TEST RECOMMENDATIONS, USE ONE OF THE FOLLOWING SCHEDULES.  
1. PREFERRED - APPLY 4-6 TONS PER ACRE OF LIME (275 LBS/1000 SF) AND 600 LBS PER ACRE 10-20-20 FERTILIZER (15 LBS/1000 SF) BEFORE SEEDING. HARROW OR DISC INTO UPPER THREE INCHES OF SOIL. AT TIME OF SEEDING, APPLY 400 LBS PER ACRE 30-0-0 UREAFORM FERTILIZER (90 LBS/1000 SF)  
2. ACCEPTABLE - APPLY 4-6 TONS PER ACRE OF LIME (275 LBS/1000 SF) AND 100 LBS PER ACRE 10-20-20 FERTILIZER (25 LBS/1000 SF) BEFORE SEEDING. HARROW OR DISC INTO UPPER THREE INCHES OF SOIL.  
SEEDING:  
TALL FESCUE 60LB/ACRE  
OR FINE FESCUE 35LB/ACRE  
OR KENTUCKY BLUEGRASS PLUS REDTOP 25LB/ACRE KENTUCKY BLUE GRASS PLUS 3LB/ACRE REDTOP  
OR PERENNIAL RYE GRASS 15LB/ACRE  
OR BIRDSFOOT TREFLOIL PLUS TALL FESCUE 6LB/ACRE PLUS 30LB/ACRE

- MULCHING SCHEDULE - MULCH SHALL BE SPREAD ON ALL AREAS THAT NEED STABILIZATION THROUGH THE WINTER MONTHS (OCT. 15-MARCH 15) INCLUDING SOIL STOCKPILES, ELEVATED SAND MOUNDS AND OTHER DISTURBED AREAS. MULCH SHALL BE APPLIED IMMEDIATELY AFTER SEEDING OR WITHIN 48 HOURS AFTER SEEDING IS COMPLETED. MULCH SHALL CONSIST OF HAY OR STRAW PLACED IN A CONTINUOUS UNIFORM BLANKET AT A MINIMUM RATE OF 6,000 POUNDS PER ACRE (3 TONS PER ACRE). MULCH SHALL BE APPLIED BY AN ACCEPTABLE MECHANICAL BLOWER; MACHINES THAT CUT MULCH INTO SHORT PIECES SHALL NOT BE USED TO APPLY MULCH. A TRACTOR DRAWN IMPLEMENT MAY BE USED TO "CRIMP" THE STRAW OR HAY INTO THE SOIL. THE MACHINERY SHOULD BE OPERATED ON THE CONTOUR. DO NOT CRIMP HAY OR STRAW BY RUNNING TRACKED MACHINERY. ANCHOR MULCH WITH SPECIFIED MULCH BINDERS, CONTAINING NO SOLVENTS OR OTHER DILUTING AGENTS TOXIC TO PLANT OR ANIMAL LIFE. AT THE FOLLOWING RATES: ASPHALT AT A RATE OF 150 GALLONS PER ACRE OR CELLULOSE FIBER AT A RATE OF 1000 POUNDS PER ACRE.

- C. MAINTENANCE PROGRAM**
- UNTIL THE SITE IS STABILIZED, ALL EROSION AND SEDIMENT CONTROL BMP'S MUST BE MAINTAINED PROPERLY. MAINTENANCE MUST INCLUDE INSPECTIONS OF ALL EROSION AND SEDIMENT CONTROL BMP'S AFTER EACH RUNOFF EVENT AND ON A WEEKLY BASIS. ALL PREVENTATIVE AND REMEDIAL MAINTENANCE WORK, INCLUDING CLEANOUT, REPAIR, REPLACEMENT, RE-GRADING, RESEEDING, RE-MULCHING AND RE-NETTING MUST BE PERFORMED IMMEDIATELY. IF EROSION AND SEDIMENT CONTROL BMP'S FAIL TO PERFORM AS EXPECTED, REPLACEMENT BMP'S OR MODIFICATIONS OF THOSE INSTALLED WILL BE REQUIRED.
  - ANY SEDIMENT REMOVED FROM BMP'S DURING CONSTRUCTION WILL BE RETURNED TO UPLAND AREAS ON SITE AND INCORPORATED INTO THE SITE GRADING.
  - A LOG SHOWING THE DATES THAT E&S BMP'S WERE INSPECTED AS WELL AS ANY DEFICIENCIES FOUND AND THE DATE THAT THEY WERE CORRECTED SHALL BE MAINTAINED ON THE SITE AND BE MADE AVAILABLE TO THE FRANKLIN COUNTY CONSERVATION DISTRICT OR OTHER REGULATORY AGENCY OFFICIALS AT THE TIME OF INSPECTION.
  - MAINTENANCE SCHEDULE:
    - COMPOST FILTER SOCK
    - THE INSTALLATION SHALL BE INSPECTED AFTER EVERY PRECIPITATION EVENT AND ON A WEEKLY BASIS. ANY NECESSARY REPAIRS SHALL BE MADE IMMEDIATELY.
    - ACCUMULATED SEDIMENT WILL BE REMOVED AS REQUIRED TO KEEP THE BARRIER FUNCTIONAL. IN ALL CASES REMOVE DEPOSITS WHERE ACCUMULATIONS REACH 1/2 THE ABOVE GROUND HEIGHT OF THE BARRIER.
    - ALL UNDERCUTTING OR EROSION OF THE TIE ANCHOR SHALL BE REPAIRED IMMEDIATELY WITH A STANDARD ROCK FILTER.
    - ADHERE TO ANY MANUFACTURER'S RECOMMENDATIONS FOR REPLACING BARRIERS DUE TO WEATHERING.

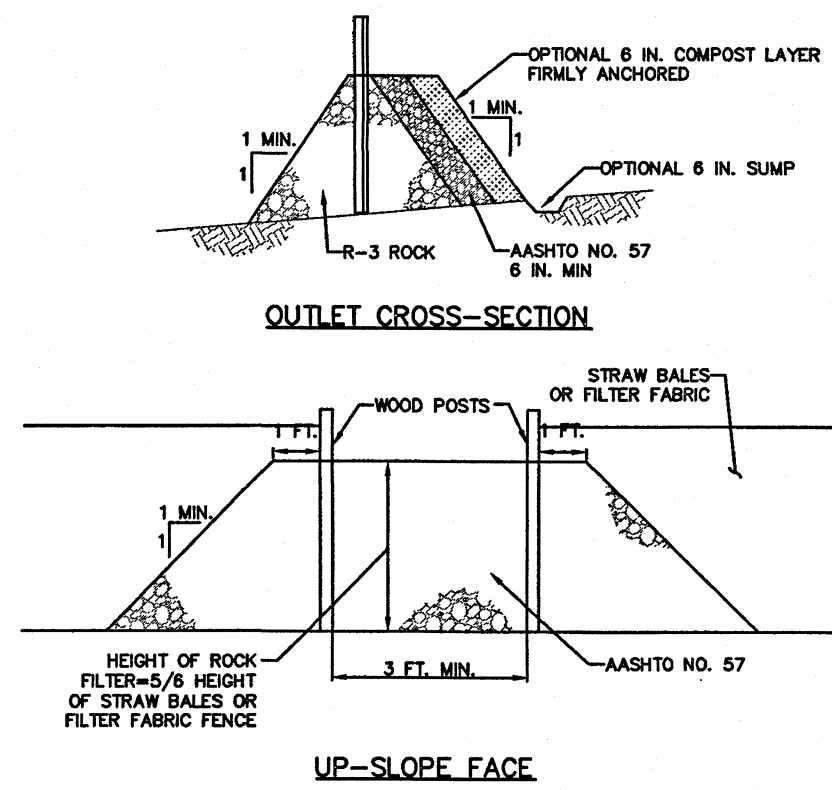
- D. GENERAL E&S NOTES**
- A COPY OF THE APPROVED EROSION AND SEDIMENT CONTROL PLAN MUST BE AVAILABLE AT THE PROJECT SITE AT ALL TIMES. THE FRANKLIN COUNTY CONSERVATION DISTRICT SHALL BE NOTIFIED OF ANY CHANGES TO THE APPROVED PLAN PRIOR TO IMPLEMENTATION OF THOSE CHANGES. THE DISTRICT MAY REQUIRE A WRITTEN SUBMITTAL OF THOSE CHANGES FOR REVIEW AND APPROVAL AT ITS DISCRETION.
  - IMMEDIATELY UPON DISCOVERING UNFORESEEN CIRCUMSTANCES POSING THE POTENTIAL FOR ACCELERATED EROSION AND/OR SEDIMENT POLLUTION, THE OPERATOR SHALL IMPLEMENT APPROPRIATE BEST MANAGEMENT PRACTICES TO MINIMIZE THE POTENTIAL FOR ACCELERATED EROSION AND/OR SEDIMENT POLLUTION AND NOTIFY THE FRANKLIN COUNTY CONSERVATION DISTRICT.
  - ALL PUMPING OF SEDIMENT LADEN WATER SHALL BE THROUGH A SEDIMENT CONTROL BMP, SUCH AS A PUMPED WATER FILTER BAG OR EQUIVALENT SEDIMENT REMOVAL FACILITY, OVER UNDISTURBED VEGETATED AREAS.
  - FAILURE TO CORRECTLY INSTALL E&S BMP'S, FAILURE TO PREVENT SEDIMENT-LADEN RUNOFF FROM LEAVING THE EARTH DISTURBANCE ACTIVITY, OR FAILURE TO TAKE IMMEDIATE CORRECTIVE ACTION TO RESOLVE FAILURE OF E&S BMP'S MAY RESULT IN ADMINISTRATIVE, CIVIL, AND/OR CRIMINAL PENALTIES BEING INSTITUTED BY THE DEPARTMENT AS DEFINED IN SECTION 602 OF THE PENNSYLVANIA CLEAN STREAMS LAW. THE CLEAN STREAMS LAW PROVIDES FOR UP TO \$10,000 PER DAY IN CIVIL PENALTIES, UP TO \$10,000 IN SUMMARY CRIMINAL PENALTIES, AND UP TO \$25,000 IN MISDEMEANOR CRIMINAL PENALTIES FOR EACH VIOLATION.
  - ALL BUILDING MATERIALS AND WASTES (INCLUDING BUT NOT LIMITED TO SCRAPED WOOD, STEEL, CONCRETE, STONE, DIRT) SHALL BE REMOVED FROM THE SITE AND RECYCLED OR DISPOSED OF IN ACCORDANCE WITH THE DEPARTMENT'S SOLID WASTE MANAGEMENT REGULATIONS AT 25 PA. CODE 260.1 ET SEQ., 271.1, AND 287.1 ET SEQ. NO BUILDING MATERIALS OR WASTES OR UNUSED BUILDING MATERIALS SHALL BE BURNED, BURIED, DUMPED, OR DISCHARGED AT THE SITE.
  - THE CONTRACTOR WILL BE RESPONSIBLE FOR THE REMOVAL OF ANY EXCESS MATERIAL AND MAKE SURE THE SITE(S) RECEIVING THE EXCESS HAS AN APPROVED AND FULLY IMPLEMENTED EROSION AND SEDIMENT CONTROL PLAN THAT MEETS THE CONDITIONS OF CHAPTER 102 AND/OR OTHER STATE OR FEDERAL REGULATIONS.
  - CLEAN FILL IS DEFINED AS: UNCONTAMINATED, NON-WATER SOLUBLE, NON-DECOMPOSABLE, INERT, SOLID MATERIAL. THE TERM INCLUDES SOIL, ROCK, STONE, DREDGED MATERIAL, USED ASPHALT, AND BRICK, BLOCK OR CONCRETE FROM CONSTRUCTION AND DEMOLITION ACTIVITIES THAT IS SEPARATE FROM OTHER WASTE AND IS RECOGNIZABLE AS SUCH. THE TERM DOES NOT INCLUDE MATERIALS PLACED IN OR ON THE WATERS OF THE COMMONWEALTH UNLESS OTHERWISE AUTHORIZED. (THE TERM "USED ASPHALT" DOES NOT INCLUDE MILLED ASPHALT OR ASPHALT THAT HAS BEEN PROCESSED FOR RE-USE.)
  - ANY PLACEMENT OF CLEAN FILL THAT HAS BEEN AFFECTED BY A SPILL OR RELEASE OF A REGULATED SUBSTANCE MUST USE FORM FP-001 TO CERTIFY THE ORIGIN OF THE FILL MATERIAL AND THE RESULTS OF THE ANALYTICAL TESTING TO QUALIFY THE MATERIAL AS CLEAN FILL. FORM FP-001 MUST BE RETAINED BY THE OWNER OF THE PROPERTY RECEIVING THE FILL.
  - ENVIRONMENTAL DUE DILIGENCE MUST BE PERFORMED TO DETERMINE IF THE FILL MATERIALS ASSOCIATED WITH THE PROJECT QUALIFY AS CLEAN FILL. ENVIRONMENTAL DUE DILIGENCE IS DEFINED AS: INVESTIGATIVE TECHNIQUES, INCLUDING, BUT NOT LIMITED TO, VISUAL PROPERTY INSPECTIONS, ELECTRONIC DATA BASE SEARCHES, REVIEW OF PROPERTY OWNERSHIP, REVIEW OF PROPERTY USE HISTORY, SANBORN MAPS, ENVIRONMENTAL QUESTIONNAIRES, TRANSACTION SCREENS, ANALYTICAL TESTING, ENVIRONMENTAL ASSESSMENTS OR AUDITS. ANALYTICAL TESTING IS NOT A REQUIRED PART OF DUE DILIGENCE UNLESS VISUAL INSPECTION AND/OR REVIEW OF THE PAST LAND USE OF THE PROPERTY INDICATES THAT THE FILL MAY HAVE BEEN SUBJECT TO A SPILL OR RELEASE OF A REGULATED SUBSTANCE. IF THE FILL MAY HAVE BEEN AFFECTED BY A SPILL OR RELEASE OF A REGULATED SUBSTANCE, IT MUST BE TESTED TO DETERMINE IF IT QUALIFIES AS CLEAN FILL. TESTING SHOULD BE PERFORMED IN ACCORDANCE WITH APPENDIX A OF THE DEPARTMENT'S POLICY "MANAGEMENT OF CLEAN FILL."



**NOTES:**  
SOCK FABRIC SHALL MEET STANDARDS OF TABLE 4.1 OF THE PA DEP EROSION CONTROL MANUAL. COMPOST SHALL MEET THE STANDARDS OF TABLE 4.2 OF THE PA DEP EROSION CONTROL MANUAL.  
COMPOST FILTER SOCK SHALL BE PLACED AT EXISTING LEVEL GRADE. BOTH ENDS OF THE BARRIER SHALL BE EXTENDED AT LEAST 8 FEET UP SLOPE AT 45 DEGREES TO THE MAIN BARRIER ALIGNMENT. MAXIMUM SLOPE LENGTH ABOVE ANY BARRIER SHALL NOT EXCEED THAT SPECIFIED FOR THE SIZE OF THE SOCK AND THE SLOPE OF ITS TRIBUTARY AREA.  
TRAFFIC SHALL NOT BE PERMITTED TO CROSS COMPOST FILTER SOCKS.  
ACCUMULATED SEDIMENT SHALL BE REMOVED WHEN IT REACHES 1/2 THE ABOVE GROUND HEIGHT OF THE BARRIER AND DISPOSED IN THE MANNER DESCRIBED ELSEWHERE IN THE PLAN.  
COMPOST FILTER SOCKS SHALL BE INSPECTED WEEKLY AND AFTER EACH RUNOFF EVENT. DAMAGED SOCKS SHALL BE REPAIRED ACCORDING TO MANUFACTURER'S SPECIFICATIONS OR REPLACED WITHIN 24 HOURS OF INSPECTION.  
BIODEGRADABLE COMPOST FILTER SOCKS SHALL BE REPLACED AFTER 6 MONTHS. PHOTOGRADABLE SOCKS AFTER 1 YEAR. POLYPROPYLENE SOCKS SHALL BE REPLACED ACCORDING TO MANUFACTURER'S RECOMMENDATIONS.  
UPON STABILIZATION OF THE AREA TRIBUTARY TO THE SOCK, STAKES SHALL BE REMOVED. THE SOCK MAY BE LEFT IN PLACE AND VEGETATED OR REMOVED. IN EITHER CASE, THE MESH SHALL BE CUT OPEN AND THE MULCH SPREAD AS A SOIL SUPPLEMENT.

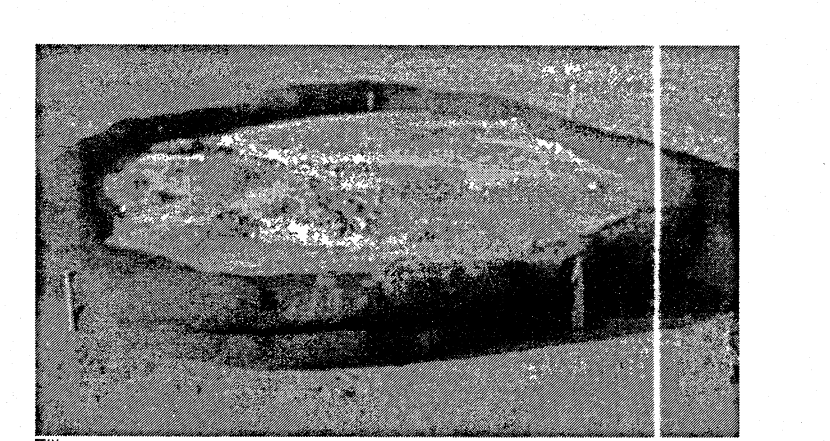
**STANDARD CONSTRUCTION DETAIL #4-1  
COMPOST FILTER SOCK**  
NOT TO SCALE

| BARRIER NO. | LOCATION             | SLOPE-PERCENT | SLOPE LENGTH ABOVE BARRIER (FT) | SIZE (NO) |
|-------------|----------------------|---------------|---------------------------------|-----------|
| CFS-1       | BELOW ENTRANCE       | 2.4%          | 210                             | 12        |
| CFS-2       | BELOW TREES          | 2.2%          | 270                             | 12        |
| CFS-3       | BELOW HEALTH CENTER  | 2.3%          | 280                             | 12        |
| CFS-4       | ABOVE SAW CUT        | 1.4%          | 220                             | 12        |
| CFS-5       | BELOW SOIL STOCKPILE | 50%           | 10                              | 12        |

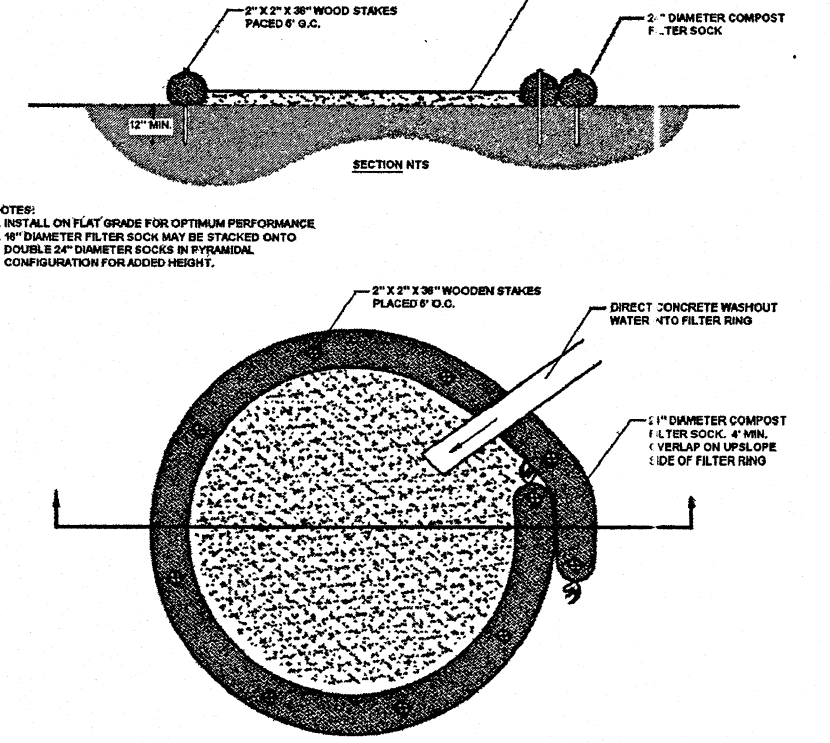


**STANDARD CONSTRUCTION DETAIL #4-6  
ROCK FILTER OUTLET**  
NOT TO SCALE

**NOTES:**  
A ROCK FILTER OUTLET SHALL BE INSTALLED WHERE FAILURE OF A SILT FENCE OR STRAW BALE BARRIER HAS OCCURRED DUE TO CONCENTRATED FLOW. ANCHORED COMPOST LAYER SHALL BE USED ON UPSLOPE FACE IN HQ AND EY WATERSHEDS.  
SEDIMENT SHALL BE REMOVED WHEN ACCUMULATIONS REACH 1/3 THE HEIGHT OF THE OUTLET.

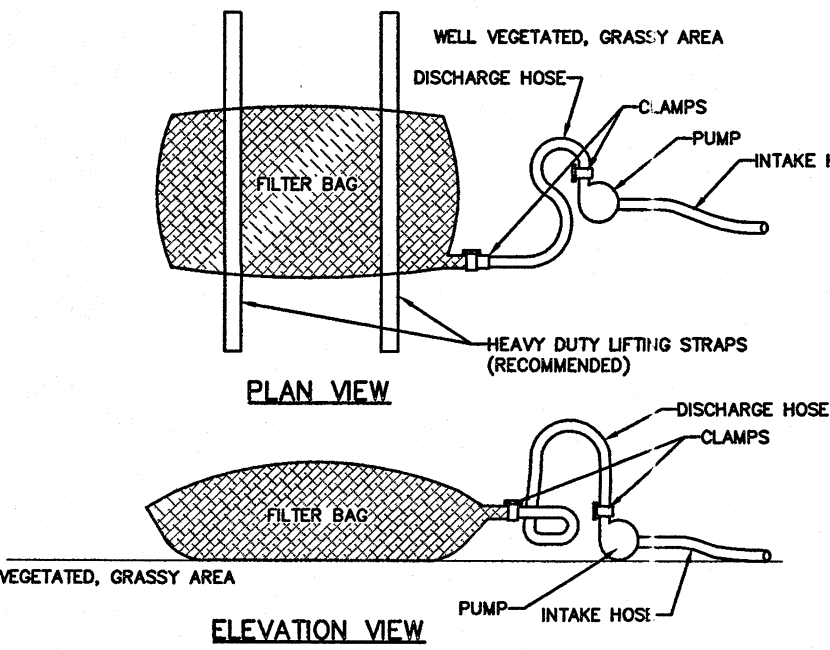


**FIGURE 3.18  
Typical Compost Sock Washout Installation**



A suitable impervious geomembrane shall be placed at the location of the washout prior to installing the socks.  
Adapted from Filtersock

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**NOTES:**  
LOW VOLUME FILTER BAGS SHALL BE MADE FROM NON-WOVEN GEOTEXTILE MATERIAL SEWN WITH HIGH STRENGTH, DOUBLE STITCHED "I" TYPE SEAMS. THEY SHALL BE CAPABLE OF TRAPPING PARTICLES LARGER THAN 150 MICRONS. HIGH VOLUME FILTER BAGS SHALL BE MADE FROM WOVEN GEOTEXTILES THAT MEET THE FOLLOWING STANDARDS:

| PROPERTY                 | TEST METHOD | MINIMUM STANDARD |
|--------------------------|-------------|------------------|
| Avg. Wide Width Strength | ASTM D-4864 | 60 LB/IN         |
| Grab Tensile             | ASTM D-4832 | 100 LB           |
| Puncture                 | ASTM D-4833 | 350 PSF          |
| Mullen Burst             | ASTM D-3799 | 3500 PSF         |
| UV Resistance            | ASTM D-4355 | 70%              |
| Age 5 Retained           | ASTM D-4751 | 60 SEVE          |

A SUITABLE MEANS OF ACCESSING THE BAG WITH MACHINERY REQUIRED FOR DISPOSAL PURPOSES SHALL BE PROVIDED. FILTER BAGS SHALL BE REPLACED WHEN THEY BECOME 1/2 FULL OF SEDIMENT. SPARE BAGS SHALL BE KEPT AVAILABLE FOR REPLACEMENT OF THOSE THAT HAVE FAILED OR ARE FULL. BAGS SHALL NOT BE PLACED ON SLOPES GREATER THAN 5% FOR SLOPES EXCEEDING 5% CLEAN ROCK OR OTHER NON-ERODIBLE AND NON-POLLUTING MATERIAL MAY BE PLACED UNDER THE BAG TO REDUCE SLOPE STEEPNESS.

NO DOWNSLOPE SEDIMENT BARRIER IS REQUIRED FOR MOST INSTALLATIONS. COMPOST BERM OR COMPOST FILTER SOCK SHALL BE INSTALLED BELOW BAGS LOCATED IN HQ OR EY WATERSHEDS. WITHIN 50 FEET OF ANY RECEIVING SURFACE WATER OR WHERE GRASSY AREA IS NOT AVAILABLE.

THE PUMP DISCHARGE HOSE SHALL BE INSERTED INTO THE BAGS IN THE MANNER SPECIFIED BY THE MANUFACTURER AND SECURELY CLAMPED. A PIECE OF PVC PIPE IS RECOMMENDED FOR THIS PURPOSE. THE PUMPING RATE SHALL BE NO GREATER THAN 750 GPM OR 1/2 THE MAXIMUM S RECOMMENDED BY THE MANUFACTURER, WHICHEVER IS LESS. PUMP INTAKES SHALL BE FLOATING AND SCREENED.

**STANDARD CONSTRUCTION DETAIL #3-16  
PUMPED WATER FILTER BAG**  
NOT TO SCALE

| DATE    | NO. | REVISION                                    |
|---------|-----|---|
| 2/15/17 | 1.  | REVISED PER F.C.C.D. COMMENTS DATED 2/08/17 |

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**PRELIMINARY - FINAL  
E&S NOTES/DETAILS  
FOR  
MERCERSBURG ACADEMY**

MONTGOMERY TOWNSHIP  
FRANKLIN COUNTY, PA

|         |                |
|---------|----------------|
| SHEET   | 5              |
| SCALE   | AS NOTED       |
| DATE    | JANUARY, 2017  |
| JOB NO. | 5045HC ESNOTES |



**OWNERSHIP AND MAINTENANCE PROGRAM FOR STORMWATER MANAGEMENT FACILITIES**

**A. PCSM LONG TERM OPERATION AND MAINTENANCE REQUIREMENTS**

- UNTIL THE PERMITTEE OR CO-PERMITTEE HAS RECEIVED WRITTEN APPROVAL OF A NOTICE OF TERMINATION, THE PERMITTEE OR CO-PERMITTEE WILL REMAIN RESPONSIBLE FOR COMPLIANCE WITH THE PERMIT TERMS AND CONDITIONS INCLUDING LONG-TERM OPERATION AND MAINTENANCE OF ALL PCSM BMPs ON THE PROJECT SITE AND IS RESPONSIBLE FOR VIOLATIONS OCCURRING ON THE PROJECT SITE. THE DEPARTMENT OF CONSERVATION DISTRICT WILL CONDUCT A FINAL INSPECTION AND APPROVE OR DENY THE NOTICE OF TERMINATION WITHIN 30 DAYS.
- THE PERMITTEE OR CO-PERMITTEE SHALL BE RESPONSIBLE FOR LONG-TERM OPERATION AND MAINTENANCE OF PCSM BMPs UNLESS A DIFFERENT PERSON IS IDENTIFIED IN THE NOTICE OF TERMINATION AND HAS AGREED TO LONG-TERM OPERATION AND MAINTENANCE OF PCSM BMPs.
- FOR ANY PROPERTY CONTAINING A PCSM BMP, THE PERMITTEE OR CO-PERMITTEE SHALL HAVE THE OWNER RECORD AN INSTRUMENT WITH THE RECORDER OF DEEDS WHICH WILL ASSURE DISCLOSURE OF THE PCSM BMP AND THE RELATED OBLIGATIONS IN THE ORDINARY COURSE OF A TITLE SEARCH OF THE SUBJECT PROPERTY. THE RECORDED INSTRUMENT MUST IDENTIFY THE PCSM BMP, PROVIDE FOR NECESSARY ACCESS RELATED TO LONG-TERM OPERATION AND MAINTENANCE FOR PCSM BMPs AND PROVIDE NOTICE THAT THE RESPONSIBILITY FOR LONG-TERM OPERATION AND MAINTENANCE OF THE PCSM BMP IS A COVENANT THAT RUNS WITH THE LAND THAT IS BINDING UPON AND ENFORCEABLE BY SUBSEQUENT GRANTEE, AND PROVIDE PROOF OF FILING WITH THE NOTICE OF TERMINATION UNDER § 102.7(b)(5) (RELATING TO PERMIT TERMINATION).
- THE PERSON RESPONSIBLE FOR PERFORMING LONG-TERM OPERATION AND MAINTENANCE MAY ENTER INTO AN AGREEMENT WITH ANOTHER PERSON INCLUDING A NONPROFIT ORGANIZATION, MUNICIPALITY, AUTHORITY, PRIVATE CORPORATION OR OTHER PERSON, TO TRANSFER THE RESPONSIBILITY FOR PCSM BMPs OR TO PERFORM LONG-TERM OPERATION AND MAINTENANCE AND PROVIDE NOTICE THEREOF TO THE DEPARTMENT OF ENVIRONMENTAL PROTECTION.
- A PERMITTEE OR CO-PERMITTEE THAT FAILS TO TRANSFER LONG-TERM OPERATION AND MAINTENANCE OF THE PCSM BMP OR OTHERWISE FAILS TO COMPLY WITH THIS REQUIREMENT SHALL REMAIN JOINTLY AND SEVERALLY RESPONSIBLE WITH THE LANDOWNER FOR LONG-TERM OPERATION AND MAINTENANCE OF THE PCSM BMPs LOCATED ON THE PROPERTY.

**B. PCSM BMP MAINTENANCE SCHEDULE**

THE OWNER/DEVELOPER SHALL BE RESPONSIBLE FOR THE MAINTENANCE OF THE PERMANENT STORMWATER MANAGEMENT FACILITIES. THE STORMWATER FACILITIES MUST BE INSPECTED SEMI-ANNUALLY, PREFERABLY IN THE SPRING AND FALL, AND AFTER ANY MAJOR RAIN EVENTS. MAINTENANCE OF THE STORMWATER MANAGEMENT FACILITIES INCLUDES, BUT IS NOT LIMITED TO:

- SOIL AMENDMENTS
  - SHALL BE KEPT FREE OF DEBRIS, THIS INCLUDES BUT IS NOT LIMITED TO, GRASS CLIPPINGS AND CLIPPINGS FROM SHRUB AND TREE MAINTENANCE, THAT WILL PREVENT ITS PROPER FUNCTIONING.
  - SHALL BE INSPECTED ON A ROUTINE BASIS AS DESCRIBED ABOVE, ANY DAMAGE SHALL BE REPAIRED BACK TO ORIGINAL SPECIFICATIONS IMMEDIATELY.
  - SHALL BE CHECKED FOR COMPACTION, IF SOIL AMENDMENTS BECOME COMPACTED OVER TIME, THEY SHALL BE LOOSENEED, BY AN APPROVED METHOD. SOIL MAY ALSO NEED TO BE ADDED TO THE SOIL AMENDMENTS, PER THE PLAN DETAILS.

**C. PERMANENT SEEDING SCHEDULE**

a. SEEDING OF THE DISTURBED AREAS SHALL TAKE PLACE IMMEDIATELY UPON THE COMPLETION OF FINAL GRADING ACTIVITIES. THESE NOTES APPLY TO GRADED OR CLEARED AREAS, NOT SUBJECT TO IMMEDIATE OR FURTHER DISTURBANCE, WHERE A PERMANENT LONG-LIVED VEGETATIVE COVER IS NEEDED.

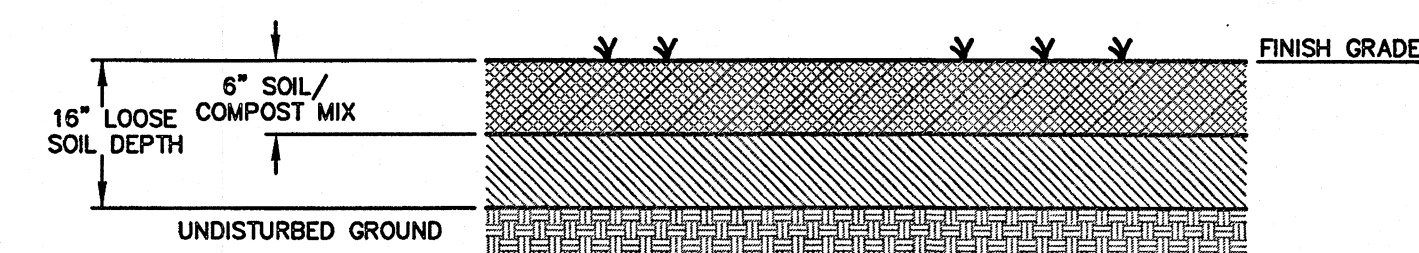
SEEDBED PREPARATION: LOOSEN UPPER THREE INCHES OF SOIL BY RAKING, DISCING, OR OTHER ACCEPTABLE MEANS BEFORE SEEDING. PERFORM ALL OPERATIONS AT RIGHT ANGLES TO THE SLOPE. SOIL AMENDMENTS: IT IS RECOMMENDED THAT SITE SPECIFIC SOIL TESTING BE PERFORMED. IN LIEU OF SOIL TEST RECOMMENDATIONS, USE ONE OF THE FOLLOWING SCHEDULES:

- PREFERRED - APPLY 4-6 TONS PER ACRE OF LIME (275 LBS/1000 SF) AND 600 LBS PER ACRE 10-20-20 FERTILIZER (15 LBS/1000 SF) BEFORE SEEDING. HARROW OR DISC INTO UPPER THREE INCHES OF SOIL. AT TIME OF SEEDING, APPLY 400 LBS PER ACRE 0-0-0 UREA/FORM FERTILIZER (91 LBS/1000 SF)
- ACCEPTABLE - APPLY 4-6 TONS PER ACRE OF LIME (275 LBS/1000 SF) AND 100 LBS PER ACRE 10-20-20 FERTILIZER (23 LBS/1000 SF) BEFORE SEEDING. HARROW OR DISC INTO UPPER THREE INCHES OF SOIL.

SEEDING: /  
 TALL FESCUE 60LB/ACRE  
 OR FINE FESCUE 35LB/ACRE  
 OR KENTUCKY BLUEGRASS PLUS REDTOP 25LB/ACRE KENTUCKY BLUE GRASS PLUS 3LB/ACRE REDTOP  
 OR PERENNIAL RYE GRASS 15LB/ACRE  
 OR BIRDSFOOT TREFOLI PLUS TALL FESCUE 6LB/ACRE PLUS 30LB/ACRE

b. MULCHING SCHEDULE - MULCH SHALL BE SPREAD ON ALL AREAS THAT NEED STABILIZATION THROUGH THE WINTER MONTHS (OCT. 15-MARCH 15) INCLUDING SOIL STOCKPILES, ELEVATED SAND MOUNDS AND OTHER DISTURBED AREAS. MULCH SHALL BE APPLIED IMMEDIATELY AFTER SEEDING OR WITHIN 48 HOURS AFTER SEEDING IS COMPLETED. MULCH SHALL CONSIST OF HAY OR STRAW PLACED IN A CONTINUOUS UNIFORM BLANKET AT A MINIMUM RATE OF 6,000 POUNDS PER ACRE (3 TONS PER ACRE). MULCH SHALL BE APPLIED BY AN ACCEPTABLE MECHANICAL BLOWER, MACHINES THAT CUT MULCH INTO SHORT PIECES SHALL NOT BE USED TO APPLY MULCH. A TRACTOR DRAWN IMPLEMENT MAY BE USED TO "CRIMP" THE STRAW OR HAY INTO THE SOIL. THE MACHINERY SHOULD BE OPERATED ON THE CONTOUR. DO NOT CRIMP HAY OR STRAW BY RUNNING TRACKED MACHINERY. ANCHOR MULCH WITH SPECIFIED MULCH BINDERS, CONTAINING NO SOLVENTS OR OTHER DILUTING AGENTS TOXIC TO PLANT OR ANIMAL LIFE, AT THE FOLLOWING RATES: ASPHALT AT A RATE OF 150 GALLONS PER ACRE OR CELLULOSE FIBER AT A RATE OF 1000 POUNDS PER ACRE.

**DOWNER/DEVELOPER**  
 MERCERSBURG ACADEMY  
 C/O BRIAN K. NORDYKE  
 300 SEMINARY STREET  
 MERCERSBURG, PA 17236

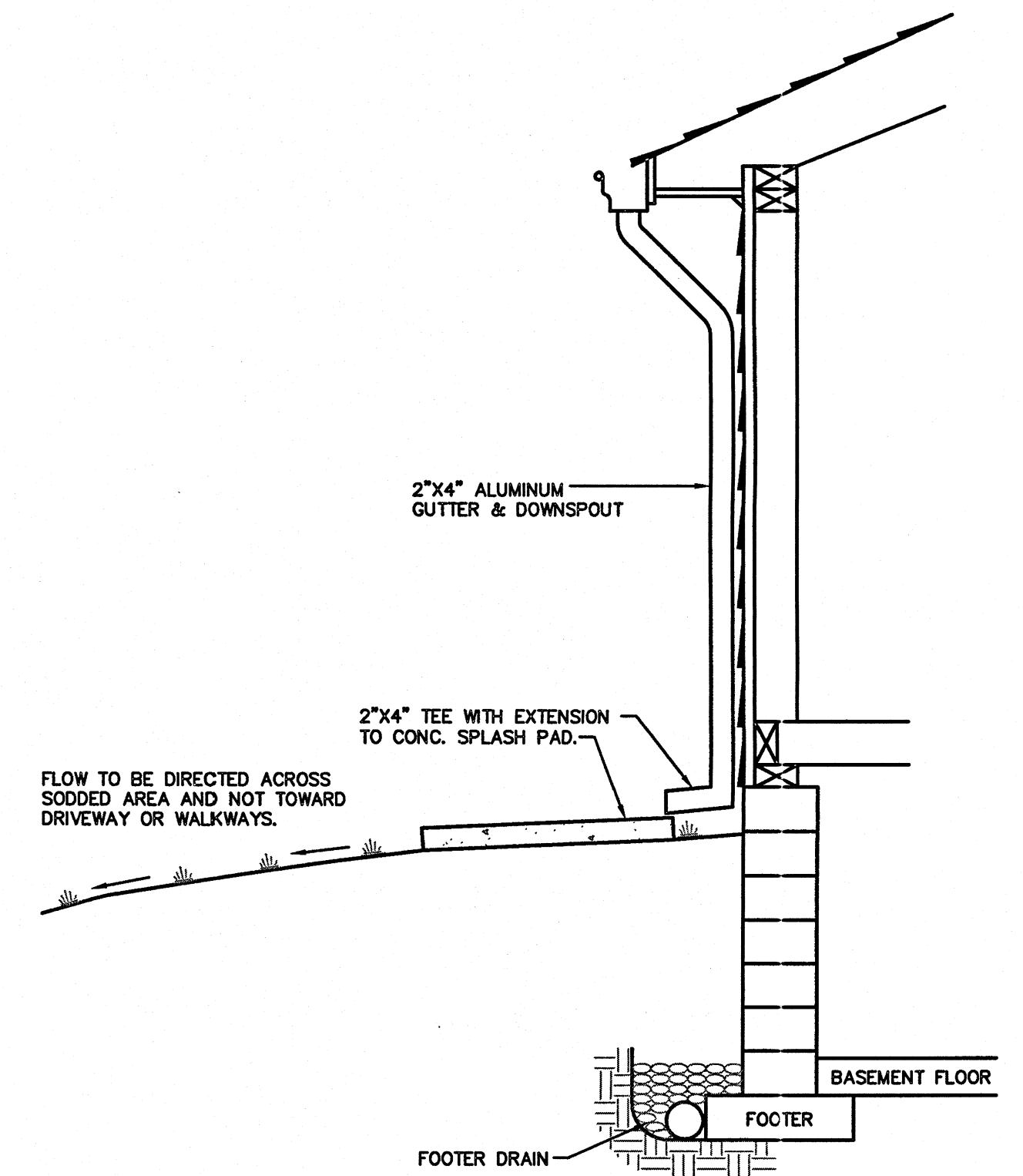


**SOIL AMENDMENT NOTES**

- SUB-SOILING SHALL BE DONE TO A DEPTH OF 16" WITH A SOLID SHANK RIPPER.
- SOIL/COMPOST MIX SHALL BE 2:1 (SOIL:COMPOST). THE MIX SHALL BE BLENDED WITH A ROTARY TILLER.

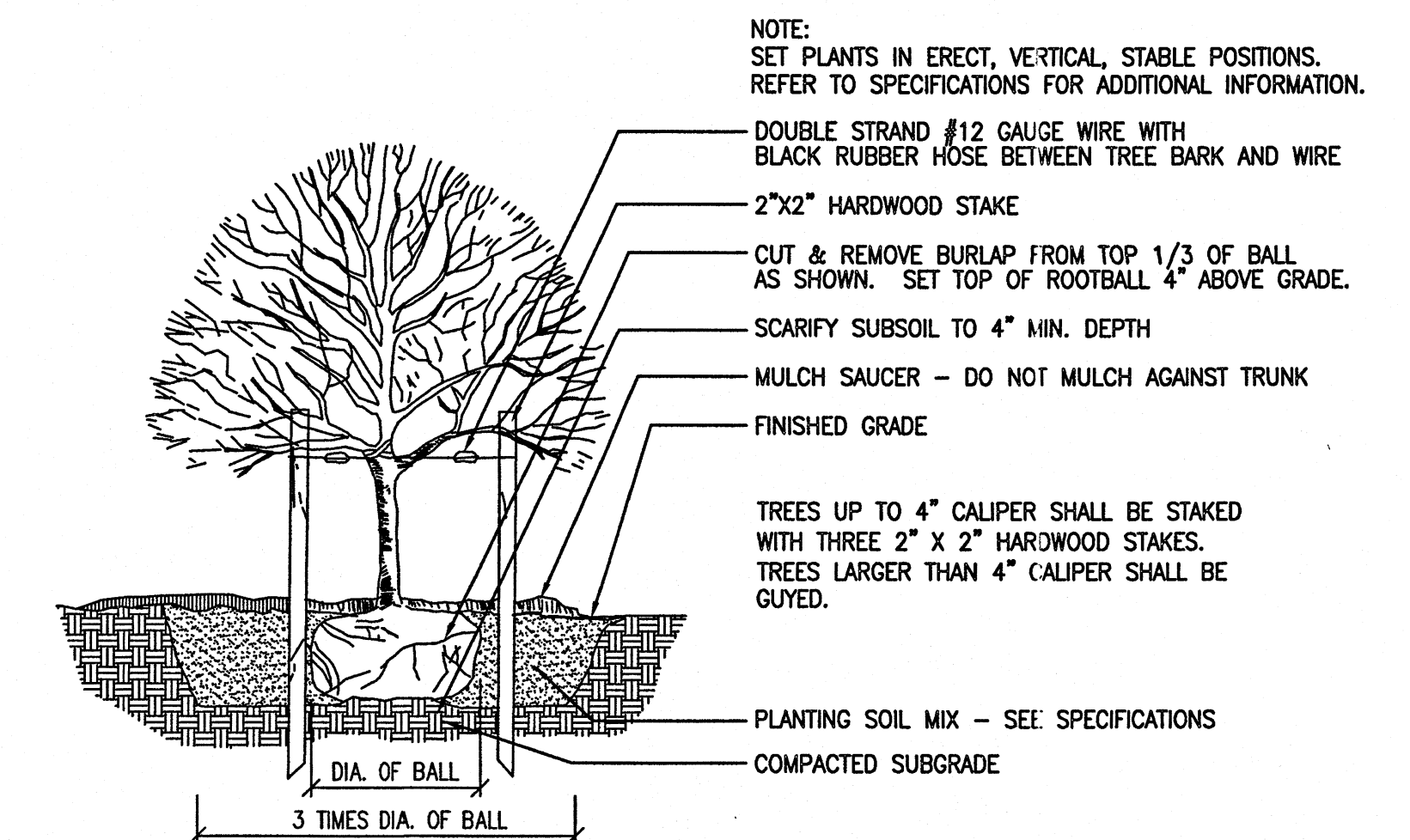
**SOIL AMENDMENT DETAIL**

N.T.S.



**DOWNSPOUT DRAINAGE DETAIL**

N.T.S.



**TREE PLANTING AND STAKING - TREES 4" CALIPER AND LESS**

N.T.S.

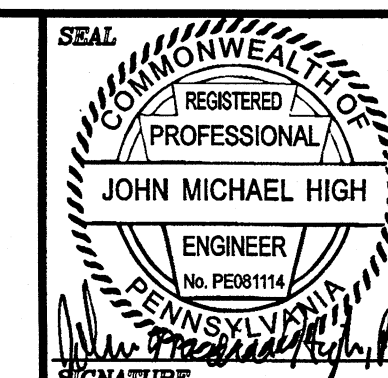
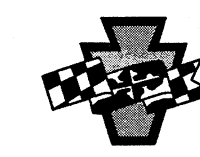
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| 2/15/17 | 1   | REVISED PER F.I.C.D. COMMENTS DATED 2/06/17 |

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PRELIMINARY - FINAL  
 PCSM NOTES/DETAILS  
 FOR  
**MERCERSBURG ACADEMY**

MONTGOMERY TOWNSHIP  
 FRANKLIN COUNTY, PA

|         |                  |
|---------|------------------|
| SHEET   | 6                |
| SCALE   | AS NOTED         |
| DATE    | JANUARY, 2017    |
| JOB NO. | 5045HC PCSMNOTES |