1. SHOWN ON THE RESERVOIR GRADING PLANS (SHEETS C14, C15, C16 AND C19), THE GRADING SHOWN ON THE

0.163 AC

ANTOINETTE SCHORN

BY

13+00 C

PI GF11

RCE

19.78 ACRES (TO TITLE LINES)

PROPOSED CHANNEL REACH 1

DEED BOOK Y64 PAGE 499

LIMIT OF DISTURBANCE

PROTECTIVE FENCE

RIPRAP SCOUR PROTECTION

DEED BOOK 9154 PAGE 952

WETLAND 6

1.396 AC

(SEE SHEET ES6 FOR DETAIL)

DEED BOOK 6551 PAGE 937

CHESTER COUNTY, PENNSYLVANIA

20+00 C

WOODS

(SEE SHEET ES7 FOR DETAIL)

DEED BOOK G37 PAGE 877

3. LOCATED GRADING AND PLACEMENT OF FILL MAY BE REQUIRED TO DEVELOP CONSTRUCTION ENTRANCES AND

TEMPORARY ENTRANCES AND WORK AREAS. FILL HEIGHTS ARE INTENDED TO PROVIDE A GRADIENT PART OF THE PERMANENT

WORKS SHALL COMPLY WITH THE CONTRACT DOCUMENTS. INCLUDES ALL BUSINESS PREPARATION REQUIREMENTS.

4. TO THE EXTENT POSSIBLE, CONSTRUCTION TRAFFIC FROM THE DAM ENVIRONMENT WORK AREA TO THE

FILL PLACEMENT AREAS ALONG RESERVOIR ROAD SHALL AVOID THE USE OF RESERVOIR ROAD.

DEED BOOK 3946 PAGE 1027

PIN 5306 00780000

LOD

LOD

LOD

JOHN ALLEN, JR AND ROBERTA MANLEY

DEED BOOK 4455 PAGE 976

PIN 5306B00310000

LOD

LOD

LOD

EUGENE AND JANICE M. SOSTER

DEED BOOK 8008 PAGE 1396

PIN 5306 00370100

LOD

LOD

LOD

GORDON K. CAMPBELL

DEED BOOK 3x7 PAGE 5468

DEED BOOK 4906 PAGE 788

DEED BOOK 5004 PAG
Erosion and Sediment Pollution Control Plan Narrative

GENERAL STATEMENT OF THE PROJECT

ALL MATERIALS NEEDED TO COMPLETELY CONSTRUCT AN EROSION CONTROL FACILITY SHALL BE AVAILABLE ON SITE.

PERMANENT STABILIZATION NOTES

A. ARRAYS TO RECEIVE PERMANENT STABILIZATION SHALL HAVE THE SUBGRADE SURFACE SCARIFIED TO A MINIMUM DEPTH OF 6 INCHES TO A 1:2 HORIZONTAL CONTOURED SURFACE PRIOR TO PLACEMENT OF TOPSOIL.

B. PREPARING THE SOIL SURFACE AND SPREAD TOPSOIL, USE CHAIN-DRIVEN PLOW TO PREPARE THE SOIL SURFACE FOR USE OF SEED. SECTION 8.5, APPLY TOPSOIL SUPPLEMENTS AS RECOMMENDED BY SOIL TEST RESULTS. IN THE ABSENCE OF SOIL TEST RESULTS, APPLY A TOPSOIL RATE OF 12 INCHES OF TOPSOIL PER 1,000 SQ YD.

C. IF THE ARRAYS ON THE OUTER EDGE OF THE AREA TO BE COVERED WITH NEW SEED AND SOMETHING SUPPLEMENTARY MATERIALS TO BE LEFT TO GERMINATE AS A SECOND SEEDING."
STAGING OF EARTHMOVING ACTIVITIES

1. SEEDING OF ALL DISTURBED AREAS MUST OCCUR UNTIL ALL PREVIOUS STAGE ACTIVITIES ARE COMPLETED AND ALL DISTURBED AREAS HAVE BEEN PERMANENTLY STABILIZED.

2. ESTABLISH MILLTOWN DAM HAZARD REDUCTION AREA.

3. ESTABLISH MILLTOWN DAM HAZARD REDUCTION AREA.

4. ESTABLISH MILLTOWN DAM HAZARD REDUCTION AREA.

5. ESTABLISH MILLTOWN DAM HAZARD REDUCTION AREA.

6. ESTABLISH MILLTOWN DAM HAZARD REDUCTION AREA.

7. ESTABLISH MILLTOWN DAM HAZARD REDUCTION AREA.

8. ESTABLISH MILLTOWN DAM HAZARD REDUCTION AREA.

9. ESTABLISH MILLTOWN DAM HAZARD REDUCTION AREA.

10. ESTABLISH MILLTOWN DAM HAZARD REDUCTION AREA.

MAINTENANCE/CONTRACTOR'S RESPONSIBILITIES

1. THE CONTRACTOR SHALL ASSURE THAT THE EROSION AND SEDIMENT POLLUTION CONTROL PLAN'S PROPERLY AND COMPLETELY IMPLEMENTED IN ACCORDANCE WITH THE APPROVED EROSION CONTROL PLAN'S DRAFTED AND THE TECHNICAL SPECIFICATIONS. MAINTENANCE OF ALL PREVENTIVE CONTROL MEASURES MUST BE PERFORMED AS REQUIRED BY THE EROSION CONTROL PLAN'S CONTRACT DOCUMENTS. VIOLATIONS OF THE EROSION CONTROL PLAN'S REQUIREMENTS RESULT IN ADMINISTRATIVE, CIVIL, AND/OR CRIMINAL PENALTIES BEING INSTITUTED BY THE ENGINEER/OWNER.

2. ALL PERMANENTLY SEeded AREAS THAT BECOME ERODED SHALL IMMEDIATELY HAVE THE TOPSOIL REPLACED, THE EROSION CONTROL MATTING REPLACED (IF APPLICABLE), THE GRASS RESOWN AND MULCH REAPPLIED AND ANCHORED. IF EROSION AND SEDIMENT POLLUTION CONTROL FACILITIES'RESTORED TO THEIR FUNCTIONAL USE, THE CONTRACTOR SHALL BE REQUIRED TO PAY THE ENGINEER/OWNER FOR NOT MORE THAN THE COST OF THE PERMANENTLY SEeded AREAS THAT BECOME ERODED.
The document appears to be a technical report or design specification, likely related to civil engineering or environmental management. It contains detailed instructions and specifications for constructing a compost filter sock, which is an erosion control measure used in construction sites to control sediment runoff. The text includes instructions for installation, maintenance, and material specifications. It also includes tables with data on compost filter sock characteristics, such as diameters, tensile strength, and other properties. The document is part of a larger set of plans, indicated by the reference to Sheet 1 of 4.
PUMPED WATER FILTER BAG NOTES:

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL STORAGE OPERATIONS INCLUDING THE ERECTION AND DESTRUCTION, USE AND DISPOSAL OF THE FILTERS. THE CONTRACTOR SHALL ENSURE THAT ALL STORAGE OPERATIONS ARE CONDUCTED WITH RESPECT TO THE LAWS, ORDINANCES, AND REGULATIONS OF THE LOCAL GOVERNMENT. THE CONTRACTOR SHALL NOTIFY THE ENGINEER PRIOR TO IMPLEMENTATION OF ALL STORED FILTER OPERATIONS. THE CONTRACTOR SHALL NOTIFY THE ENGINEER PRIOR TO IMPLEMENTATION OF ALL STORED FILTER OPERATIONS.

2. CONSTRUCTION SHALL BE STAED ON A DATE TO BE DETERMINED BY THE CONTRACTOR. IF THE PROJECT IS RUN AT A RATE OF MORE THAN 25 GPM PER SOCKET HOE, THE CONTRACTOR SHALL NOTIFY THE ENGINEER PRIOR TO IMPLEMENTATION OF ALL STORED FILTER OPERATIONS.

3. ALL STORED FILTERS SHALL BE INSTALLED IN SUCH A MANNER THAT THE MANUFACTURER'S RECOMMENDATIONS AND THE INFORMATION PROVIDED WITHIN THE CONTRACT DOCUMENTS ARE FOLLOWED.

4. CONSTRUCTION SHALL BE PERMITTED TO PROCEED WITHIN THE PROJECT LIMITS PROVIDED WITHIN THE CONTRACT DOCUMENTS.

5. THE CONTRACTOR SHALL ENSURE THAT ALL STORED FILTER OPERATIONS ARE PERMITTED TO PROCEED WITHIN THE PROJECT LIMITS PROVIDED WITHIN THE CONTRACT DOCUMENTS.

6. ALL STORED FILTER OPERATIONS SHALL BE PERMITTED TO PROCEED WITHIN THE PROJECT LIMITS PROVIDED WITHIN THE CONTRACT DOCUMENTS.

7. THE CONTRACTOR SHALL ENSURE THAT ALL STORED FILTER OPERATIONS ARE PERMITTED TO PROCEED WITHIN THE PROJECT LIMITS PROVIDED WITHIN THE CONTRACT DOCUMENTS.

8. THE CONTRACTOR SHALL ENSURE THAT ALL STORED FILTER OPERATIONS ARE PERMITTED TO PROCEED WITHIN THE PROJECT LIMITS PROVIDED WITHIN THE CONTRACT DOCUMENTS.

9. THE CONTRACTOR SHALL ENSURE THAT ALL STORED FILTER OPERATIONS ARE PERMITTED TO PROCEED WITHIN THE PROJECT LIMITS PROVIDED WITHIN THE CONTRACT DOCUMENTS.

10. THE CONTRACTOR SHALL ENSURE THAT ALL STORED FILTER OPERATIONS ARE PERMITTED TO PROCEED WITHIN THE PROJECT LIMITS PROVIDED WITHIN THE CONTRACT DOCUMENTS.

11. ALL STORED FILTER OPERATIONS SHALL BE PERMITTED TO PROCEED WITHIN THE PROJECT LIMITS PROVIDED WITHIN THE CONTRACT DOCUMENTS.
1. **CONSTRUCTION SEQUENCE NOTES FOR TEMPORARY DIVERSION OF WATER SYSTEM**

   - **CONTRACTOR** TO PROVIDE DIVERSION WATER PLANS TO THE TOWNSHIP FOR APPROVAL PRIOR TO START OF CONSTRUCTION.
   - **CONTRACTOR** SHALL PROVIDE DETAILED OF COPPER MATTING MATERIAL, COPPER MATTING LOCATIONS, SIZE, DESIGN, REQUIREMENTS FOR INSTALLATION AND REMOVAL, LOCATION AND TYPE OF GABIONS, AND LOCATION AND TYPES OF BENDS, CORNER INSTRUCTIONS, AND INSTALLATION INSTRUCTIONS TO TRADES PREPARED FOR DIVERSION MEASURES.
   - **CONTRACTOR** MUST PROVIDE PLANS AND SPECIFICATIONS FOR DIVERSION MEASURES AS DESIGNED TO PROTECT THE WORK AREA.

2. **RESOLUTIONS FOR SOIL LIMITATIONS**

   - **CONTRACTOR** SHALL REMOVE ANY SOILS WITHIN THE WORK AREA THAT DO NOT MEET THE SOIL REQUIREMENTS SPECIFIED IN THE CONTRACT DOCUMENTS.
   - **CONTRACTOR** SHALL PROVIDE A BOLSTER soil test report to the owner before commencing construction.
   - **CONTRACTOR** SHALL PROVIDE A BOLSTER soil test report to the owner before commencing construction.

3. **EROSION CONTROL FACILITIES**

   - **CONTRACTOR** MUST PROVIDE A BOLSTER soil test report to the owner before commencing construction.
   - **CONTRACTOR** SHALL PROVIDE A BOLSTER soil test report to the owner before commencing construction.

4. **INLET GRATE**

   - **CONTRACTOR** SHALL PROVIDE A BOLSTER soil test report to the owner before commencing construction.
   - **CONTRACTOR** SHALL PROVIDE A BOLSTER soil test report to the owner before commencing construction.

5. **SANDBAG COFFERDAM**

   - **CONTRACTOR** SHALL PROVIDE A BOLSTER soil test report to the owner before commencing construction.
   - **CONTRACTOR** SHALL PROVIDE A BOLSTER soil test report to the owner before commencing construction.

6. **FILTER BAG INLET PROTECTION**

   - **CONTRACTOR** SHALL PROVIDE A BOLSTER soil test report to the owner before commencing construction.
   - **CONTRACTOR** SHALL PROVIDE A BOLSTER soil test report to the owner before commencing construction.

7. **SANDBAG FILTER MATTING**

   - **CONTRACTOR** SHALL PROVIDE A BOLSTER soil test report to the owner before commencing construction.
   - **CONTRACTOR** SHALL PROVIDE A BOLSTER soil test report to the owner before commencing construction.

8. **FLAT PIPE INLET PROTECTION**

   - **CONTRACTOR** SHALL PROVIDE A BOLSTER soil test report to the owner before commencing construction.
   - **CONTRACTOR** SHALL PROVIDE A BOLSTER soil test report to the owner before commencing construction.

9. **PIVOT PIPE INLET PROTECTION**

   - **CONTRACTOR** SHALL PROVIDE A BOLSTER soil test report to the owner before commencing construction.
   - **CONTRACTOR** SHALL PROVIDE A BOLSTER soil test report to the owner before commencing construction.
RIPRAP APRON OUTLET PROTECTION SCHEDULE

<table>
<thead>
<tr>
<th>LOCATION</th>
<th>WIDTH</th>
<th>D-W ENDWALL</th>
<th>ROCK</th>
<th>ROCK PLACEMENT</th>
</tr>
</thead>
<tbody>
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<td></td>
<td>(W1)</td>
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<td></td>
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</tbody>
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RIPRAP APRON GRADATION TABLE

<table>
<thead>
<tr>
<th>NO.</th>
<th>CLASS 2</th>
<th>TYPE A</th>
<th>NB.</th>
<th>R-5 ROCK</th>
<th>R-6 ROCK</th>
<th>R-7 ROCK</th>
</tr>
</thead>
<tbody>
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RIPRAP APRON OUTLET PROTECTION

SECTION A-A

RIPRAP PLUNGE POOL OUTLET PROTECTION

SECTION B-B

SECTION C-C

PROPOSED APPLTD X" TWIN CULVERT EXTENSION WITH MATERIAL

17" MIN COVER OVER PIPE (SEE NOTE 4)

SECTION D-D

ELEVATION

STABILIZED HAUL ROAD WITH CLASS 2, TYPE A GEOTEXTILE

EXTEND RIPRAP FOR A DISTANCE OF 8' UPSTREAM OF CULVERT INVERT

PROPOSED 49"X33" TWIN CULVERT AS SHOWN

TOP OF BANK

LOW WALL AS NEEDED TO ALLOW TWO WAY TRAFFIC

EXTEND AASHTO #1 COARSE AGGREGATE STABILIZED HAUL ROAD (WIDTH AS NEEDED TO ALLOW TWO WAY TRAFFIC)

OUTLET PROTECTION R-5 ROCK UPSTREAM SCOUR PROTECTION 27" PLACEMENT THICKNESS UNDERLAIN WITH GEOTEXTILE

CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING THE CULVERT MATERIAL, CULVERT SPACING, BACKFILL MATERIAL AND COVER REQUIREMENTS AS NEEDED TO SUPPORT THE ANTICIPATED TRAFFIC LOADS. CULVERT CROSSINGS SHALL BE APPROVED BY PENNDOT. CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING THE CULVERT MATERIAL, CULVERT SPACING, BACKFILL MATERIAL AND COVER REQUIREMENTS AS NEEDED TO SUPPORT THE ANTICIPATED TRAFFIC LOADS. CULVERT CROSSINGS SHALL BE APPROVED BY PENNDOT.

临时溪流横移要点:

1. 横移工地的主体结构应与永久结构相同。
2. 合同方应选择使用符合规范的材料。用于维护的材料应具有良好的耐磨性能。
3. 合同方应按照规范的要求进行材料的保护。
4. 合同方应按照规范的要求进行材料的保护。
5. 合同方应按照规范的要求进行材料的保护。
GENERAL NOTES:

1. THE CONTRACTOR IS RESPONSIBLE TO APPLY FOR AND OBTAIN, PRIOR TO CONSTRUCTION, ANY FEDERAL, STATE, COUNTY, OR TOWNSHIP PERMITS THAT MIGHT BE REQUIRED TO COMPLETE THIS PROJECT.

2. THE CONTRACTOR SHALL DETERMINE THE EXTENT AND EXACT LOCATION AND DEPTH OF ALL EXISTING UTILITIES PRIOR TO COMMENCING WORK. CONTRACTOR SHALL REPORT TO THE OWNER'S REPRESENTATIVE / LANDSCAPE ARCHITECT ANY CONDITION NOT CONSISTENT WITH THE DRAWINGS. THE CONTRACTOR SHALL PROTECT ALL SERVICE LINES AND EXISTING SITE AREA FROM DESTRUCTION OR DAMAGE. THE CONTRACTOR AGREES TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT OCCUR BY THE CONTRACTOR'S FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES. CONTRACTOR SHALL NOTIFY UTILITY COMPANIES THREE (3) DAYS PRIOR TO COMMENCING WORK TO COMPLY WITH PA ACT 197. PA ONE CALL SYSTEM: 1-800-243-1776.

3. ALL SITE WORK SHALL BE PERFORMED IN ACCORDANCE WITH APPLICABLE LOCAL & STATE CODES/REGULATIONS.

4. SEE CIVIL PLANS FOR FINISHED GRADES, LOCATION OF DRAIN INLETS, CATCH BASINS, AND UNDERGROUND UTILITY LOCATIONS.

5. ALL DEMOLITION DEBRIS SHALL BE DISPOSED OF PROPERLY, LEGALLY AND IN A TIMELY MANNER.

6. ALL EXISTING TREES, SHRUBS, AND GROUND COVER NOT INDICATED TO BE REMOVED SHALL BE PROTECTED FROM CONSTRUCTION ACTIVITIES.

7. PROTECT ALL EXISTING BUILT ELEMENTS, INCLUDING BUT NOT LIMITED TO: PAYING WALLS, COLUMNS, CURBS, AND STEPS. ALL EXISTING BUILT ELEMENTS SHALL BE PROTECTED DURING CONSTRUCTION ACTIVITIES. RESTORE ANY DAMAGED ITEMS TO THEIR ORIGINAL CONDITION TO THE SATISFACTION OF THE OWNER'S REPRESENTATIVE.

8. SEED ALL AREAS DISTURBED BY CONSTRUCTION ACTIVITIES.

FUTURE WORK (NIC) 5' MATCHLINE SHEET L1
PARK SIGN (NIC) 8' TYP.
REQUIRED (TYP.) UTILITY COMPANY AS COORDINATE GUY WIRE

MINOR CONTOUR INTERVAL
MAJOR CONTOUR INTERVAL
DRIVEWAY EDGE
WALKWAY EDGE
WALL STRUCTURE
BOULDER WALL
LANDSCAPE BOULDER
STORM DRAINAGE PIPE
STORMWATER INLET
Vehicular Asphalt
Pedestrian Asphalt
Concrete Pavement
Bridge Structure
Stabilized Trench
MULCH TRAIL SURFACE

SCALE IN FEET

MILLTOWN DAM HAZARD REDUCTION AND RESERVOIR ENHANCEMENTS
EAST CORSIN TOWNSHIP
SITE LAYOUT PLAN
LANDSCAPE PLAN
SHEET 1 OF 3

Gannett Fleming

FEB. 2020

SPL PS MB
AS SHOWN

SRL MB

2'-0" 4'-0" 6'-0"
ADA PARKING SIGNAGE

TRAFFIC SIGNAGE

INTERPRETIVE SIGN

TREE PLANTING WITH TREE GRATE

NOTES:
1. CENTRE SIGN WITH VISIBILITY OF PARKING STALL.
2. ONLY PLACE "VISUAL ACCESSIBLE" SIGN AT NOTED PLAN LOCATIONS.
3. PLACE SIGN A MINIMUM OF 2 FEET BACK OF CURB.
4. PRODUCT MTS 4.5-7 "END" "TRADE" 18" X 6" TO MATCH CONSTRUCTION DETAILS.
5. REMOVE ONLY BROKEN OR DAMAGED BRANCHES IMMEDIATELY AFTER PLANTING, UNLESS OTHERWISE DIRECTED BY THE PROFESSIONAL.
6. ALL WELDS TO BE KEPT OUTSIDE OF TREE GRATE BEARING SURFACES, WELDS ON SURFACES TO BE SMOOTH.
7. TREE GRATE FRAME TYPE: "E" EMBEDMENT FRAME MATERIAL: MILD STEEL, NATURAL FINISH
8. MANUFACTURER: PENNDOT TYPE E PENNDOT R7-8 GALVANIZED STEEL
9. SIGN MANUFACTURER: FOSTERGRAPHICS.COM OR APPROVED EQUAL
10. TREE GRATE, HEEL PROOF, RAW FINISH
11. MEN'S TOILET: WHITE BACKGROUND AND BAKED FINISH GRADE COATED ALUMINUM POST FOR HANDICAP USE
12. EXIT SIGN: ALUMINUM SIGN WITH BLACK LETTERING ON WHITE REFLECTORIZED BACKGROUND.

PROJECTS SHALL BE AT THE USER'S SOLE RISK AND WITHOUT LIABILITY TO GANNETT FLEMING, INC. IN THE EVENT THAT A CONFLICT ARISES BETWEEN THE SEALED DRAWINGS AND THE ELECTRONIC FILES, THE SEALED DRAWINGS WILL HAVE PRECEDENCE. THIS DRAWING IS AND SHALL REMAIN THE PROPERTY OF GANNETT FLEMING, INC. ANY MISUSE, REUSE, ALTERATIONS, ADDITIONS, AND/OR DELETIONS OF THESE DRAWINGS ON PROJECT EXTENSIONS OR OTHER WORKS WILL BE AT THE USER'S RISK AND WITHOUT LIABILITY TO GANNETT FLEMING, INC.
NOTES:
1. ALL TEXT TIMES NEW ROMAN AND RAISED 1/16" HEIGHT
2. CONTRACTOR TO PROVIDE SHOP DRAWINGS & COLOR / FINISH SAMPLES FOR PLAQUE FOR APPROVAL BY TOWNSHIP REPRESENTATIVE PRIOR TO INSTALLATION
3. MANUFACTURER: ARK RAMOS ARCHITECTURAL SIGNAGE SYSTEMS, OKLAHOMA CITY, OKLAHOMA, 1-800-725-7266, OR APPROVED EQUAL.
4. CONTRACTOR TO PROVIDE SHOP DRAWINGS. TOWNSHIP REPRESENTATIVE TO APPROVE SHOP DRAWINGS AND FINISHED PRIOR TO INSTALLATION.
5. ORDER MATERIALS ALLOWING SUFFICIENT LEAD TIME FOR SHIPPING TO AVOID DELAYING WORK. INSPECT UPON ARRIVAL ALL MATERIALS TO VERIFY ITEMS SHIPPED ARE CORRECT AS ORDERED AND INTACT.
6. PROVIDE FULL SIZE PAPER MOUNTING TEMPLATE SHOWING HOLE PLACEMENT LOCATION OF MOUNTING HOLES IN CONCRETE.
7. CONTRACTOR TO PREPARE STONE FACE TO MOUNT PLAQUE FLUSH TO STONE SURFACE WITHIN 2" OF STONE FACE.

PLAQUE ENLARGEMENT

1. BRONZE SIGN
   - PLANTING SOIL
   - TIMES ROMAN TEXT, 3/4" HEIGHT
   - BOULDER, MODEL 504
   - TIMES ROMAN TEXT, 3/4" HEIGHT
   - BOULDER, MODEL 504
   - MATTE TEXTURE AND SATIN BRONZE RAISED AREAS WITH DARK OXIDIZED BACKGROUND

2. SPLIT RAIL FENCE
   - FINISHED GRADE
   - 8" TOP SOIL
   - 1" BATTER / 12" BLOUNT EDGE
   - BOULDERS TO BE SELECTED BY LANDSCAPE ARCHITECT AND LOCATED IN THE FIELD, SEE "CHART 1" FOR SIZES
   - CLEAN #5 Aggregate BACKFILL, COMPACTED
   - PREPARED SUBGRADE
   - GEOTEXTILE (TYP.)
   - CLASS A, TYPE A
   - 2% RAIL HANG

3. BOULDER RETAINING WALL
   - POST
   - 12'-0" MAX.
   - FENCE RAIL
   - COMPACTED #2A MODIFIED GRAVEL
   - PREPARED SUBGRADE
   - NOTE:
     1. PLACE ODD FENCE POST SPACING AWAY FROM END POSTS. MINIMUM RAIL LENGTH IS 5'
     2. ALL FENCING ALONG PATHS SHOULD BE A MIN. OF 24" FROM EDGE OF TOWNSHIP

4. LOW BOULDER WALL
   - CLEAN #5 Aggregate
   - FINISHED GRADE
   - #2A MODIFIED AGGREGATE BASE COURSE, COMPACTED
   - PREPARED SUBGRADE
   - BRONZE CASE PLAQUE (SEE ENLARGEMENT)
   - PENNDOT 2A MODIFIED AGGREGATE BASE COURSE, COMPACTED
   - FINISHED GRADE
   - BOULDER TO BE APPROVED BY TOWNSHIP REPRESENTATIVE PRIOR TO INSTALLATION
   - L8
   - CENTER SIGN IN FRONT FACE
   - BRONZE CASE PLAQUE (SEE ENLARGEMENT)
   - RECESS SIGN INTO FACE OF STONE
   - L8

5. LANDSCAPE BOULDER
   - BOULDER
   - FINISHED GRADE
   - #2A MODIFIED AGGREGATE BASE COURSE, COMPACTED
   - PREPARED SUBGRADE
   - BRONZE CASE PLAQUE (SEE ENLARGEMENT)
   - PENNDOT 2A MODIFIED AGGREGATE BASE COURSE, COMPACTED
   - FINISHED GRADE
   - BOULDER TO BE APPROVED BY TOWNSHIP REPRESENTATIVE PRIOR TO INSTALLATION
   - L8
   - CENTER SIGN IN FRONT FACE
   - BRONZE CASE PLAQUE (SEE ENLARGEMENT)
   - RECESS SIGN INTO FACE OF STONE
   - L8

6. BOULDER RETAINING WALL
   - POST
   - 12'-0" MAX.
   - FENCE RAIL
   - COMPACTED #2A MODIFIED GRAVEL
   - PREPARED SUBGRADE
   - NOTE:
     1. PLACE ODD FENCE POST SPACING AWAY FROM END POSTS. MINIMUM RAIL LENGTH IS 5'
     2. ALL FENCING ALONG PATHS SHOULD BE A MIN. OF 24" FROM EDGE OF TOWNSHIP

7. LANDSCAPE PLAN
   - MILLTOWN DAM HAZARD REDUCTION AND RESERVOIR ENHANCEMENTS
   - EAST GOSHEN TOWNSHIP
   - LANDSCAPE PLAN
   - SITE DETAILS
   - FEB. 2020
NOTES:
1. INSTALLATION OF GUIDE RAIL TO CONFORM TO PADOT PUB 408

SECTION VIEW

12"
3'-0"

ELEVATION VIEW

2'-0"
6"

PLAN VIEW

4" X 8" WOOD RAIL, SPLICE JOINTED AT POSTS

ELEVATION

2.56" X 1/8" CARRIAGE BOLTS PER POST. WASHER AND BOLT COUNTER SUNK.

TOP OF SLOPE

2A MODIFIED AGGREGATE BASE COURSE, COMPACTED

PREPARED SUBGRADE

STEEL GUIDERAIL TYPE 31 STRONG

TIMBER GUIDERAIL
NOTES:

1. MODEL: BARREL VAULT SHELTER - BV1624
2. DESIGN CRITERIA: STRUCTURE SHALL BE DESIGNED TO MEET SITE SPECIFIC SNOW AND WIND LOAD DESIGN CRITERIA USING MOST CURRENT APPLICABLE BUILDING CODES. ALL STRUCTURAL MEMBERS ARE ASTM A-500 U.S. GRADE B STEEL. WELDED CONNECTION PLATES SHALL BE ASTM A-36 HOT ROLLED STEEL. ALL FABRICATION PERFORMED TO LATEST AWS STANDARDS BY AWS CERTIFIED WELDERS. ALL FRAMING CONNECTIONS ARE DONE USING A325 GRADE BOLTS WITHIN CONCEALED ACCESS OPENINGS FROM ABOVE AND WILL LATER BE CONCEALED BY THE ROOFING. ALL ROOF FRAMING SHALL BE FLUSH AGAINST THE ROOF DECKING TO ELIMINATE THE POSSIBILITY OF BIRD NESTING.
3. TUBULAR STEEL COLUMNS AND BEAMS: STANDARD COLUMN DIMENSION SHALL BE 5" X 5" X 3/16" TUBULAR STEEL WELDED TO 5/8" BASE PLATES FOR SURFACE MOUNTING. MAIN SUPPORT BEAMS ARE 7" X 5" X 3/8" AND PURLINS ARE 6" X 4" X 1/8". STEEL SIZES ARE PRELIMINARY AND MAY CHANGE DUE TO ONGOING REVIEW AND FINAL ENGINEERING.
4. ROOFING: 24 GA. PRE-CUT AND PRE-CURVED STEEL MEGA-RIB PANELS WITH KYNAR 500 FINISH IN STANDARD COLOR WITH WHITE UNDERSIDE. STANDARD ROOF RADIUS IS 16'-0" WITH A BASE HEIGHT OF 8'-0" AT OR BELOW FINISH SLAB ELEVATION OR THEY CAN BE EMBEDDED DIRECTLY INTO THE FOOTING WITHOUT BASE PLATES UPON REQUEST. ANCHOR BOLTS AND BRACING TEMPLATES ARE INCLUDED. OPTIONAL BASE PLATE COVERS ARE AVAILABLE AT AN ADDITIONAL COST.
5. FRAMING FINISH: ALL STEEL FRAMEWORK WILL RECEIVE A CORROSION PROTECTIVE TGIC POLYESTER POWDER COAT, ELECTRO-STATICALLY APPLIED AND CURLED AT 400°F. COLOR: FROM STANDARD RANGE.
6. FOUNDATION: ALL COLUMNS TO BE ANCHORED TO CONCRETE FOOTINGS (FOOTING DESIGN PROVIDED SEPARATELY). COLUMNS CAN BE SURFACE MOUNTED TO FOOTINGS WITH ANCHOR BOLTS AT OR BELOW FINISH SLAB ELEVATION OR THEY CAN BE EMBEDDED DIRECTLY INTO THE FOOTING WITHOUT BASE PLATES UPON REQUEST. ANCHOR BOLTS AND BRACING TEMPLATES ARE INCLUDED. OPTIONAL BASE PLATE COVERS ARE AVAILABLE AT AN ADDITIONAL COST.
7. HARDWARE: ALL STRUCTURAL HARDWARE AND ROOFING FASTENERS SHALL BE PROVIDED BY THE MANUFACTURER.
8. CONTRACTOR TO SUBMIT FINAL SHOP DRAWINGS FOR APPROVAL BY LANDSCAPE ARCHITECT OR OWNERS REPRESENTATIVE.
9. MANUFACTURER: CEDAR FOREST PRODUCTS
   P.O. BOX 145
   WEST OLIVE, MI 49460

ELEVATION

PLAN

LANDSCAPE PLAN

SITE DETAILS

MILLTOWN DAM HAZARD REDUCTION
AND RESERVOIR ENHANCEMENTS

FEB. 2020
NOTES:

1. CONTRACTOR TO PROVIDE SHOP DRAWINGS FOR SUBSTRUCTURE, BEARING PAD, MSE WALLETS, SUPERSTRUCTURE, AND APPROACH RAILINGS.
2. BRIDGE TO BE CONSTRUCTED OF GALVANIZED STEEL.
3. FINISH: TWO COATS OF PAINT - COLOR TO BE SPECIFIED BY LANDSCAPE ARCHITECT.
4. BRIDGE TO CONFORM TO IBC PEDESTRIAN BRIDGE STANDARDS.
5. BRIDGE LOAD INFORMATION: 100 PSF UNIFORM LIVE LOAD, 25 PSF UNIFORM WIND LOAD; 5,000 POUND VEHICLE LOAD.
6. BRIDGE TO BE DELIVERED IN ONE PIECE.
7. FOR BRIDGE SPECIFICATIONS CONTACT THE MANUFACTURER:
   CONTECH ENGINEERED SOLUTIONS
   21 SOUTH VALLEY FORGE ROAD, UNIT 304
   LANDSDALE, PA 19446
   PHONE: 215-498-3246
8. LIGHTING MANUFACTURER:
   WE-EF LIGHTING
   410-D KEYSTONE DRIVE
   WARRENDALE, PA 15086
15" Ø REINFORCED CONCRETE PILE, SPACED 12' ON CENTER

STEEL SUBSTRUCTURE

3'-6" MIN.

1'-6" O.C. MAX.

PORCH BRACKET, BOLTED TO SUBSTRUCTURE

STEEL RAILING SLEEVE, BOLTED TO SUBSTRUCTURE

10" Ø REINFORCED CONCRETE PILE SPACED 12' ON CENTER

3'-0" MAX.

12" MAX

NOTES:

1. SUBMIT SHOP DRAWINGS FOR APPROVAL BY OWNER'S REPRESENTATIVE PRIOR TO FABRICATION OF RAILING.

2. ADJUST ANGLES OF INFILL PANELS TO MAINTAIN 2' SPACING FROM TOP RAIL AND POST.
NOTES:
1. REFER TO PLAN SHEETS FOR INLET WEIR AND OUTLET WEIR LOCATIONS AND ORIENTATIONS.
2. STONE VENEER (SIZES 4"X4" / 4"X6" / 4"X8" / 6"X8" / 6"X12" / 9"X12") FINISH TO BE APPROVED BY LANDSCAPE ARCHITECT.
3. INSTALL CMU BLOCKS BEHIND STABILIZING BOULDERS.
4. FLAT CAPSTONE SHALL BE NOTCHED OR OTHERWISE INSTALLED TO AVOID CONFLICT WITH THE OPERATION OF THE STOP LOG SYSTEM.
5. REFER TO PLAN SHEETS FOR INLET WEIR AND OUTLET WEIR LOCATIONS AND ORIENTATIONS.

TYPICAL INLET WEIR AND OUTLET WEIR DETAIL FOR OFFLINE POND
NOT TO SCALE
DO NOT CUT OR DAMAGE LEADER.
REMOVE ONLY BROKEN OR DAMAGED BRANCHES IMMEDIATELY AFTER PLANTING. UNLESS OTHERWISE DIRECTED BY THE LANDSCAPE ARCHITECT.

WARNING FLAG 90° LONG, MIN. UV-STABILIZED POLYPROPYLENE MONOFILAMENT WEBBING TIED TO TREE AND STAKE.

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1. The contractor is responsible to apply for and obtain, prior to construction, any federal, state, county, or township permits that might be required to complete this project.

2. The contractor shall determine the extent and exact location and depth of all existing utilities prior to commencing work. Contractor shall report to the owner's representative the location of any existing utilities. The contractor shall protect all service lines and existing site area from deterioration or damage. The contractor agrees to be fully responsible for any and all damages which might occur by the contractor's failure to exactly locate and preserve any and all underground utilities. Contractor shall notify utility companies three (3) days prior to commencing work to comply with PA Act 287. PA one call system: 1-800-243-1776.

3. All site work shall be performed in accordance with applicable local, state codes/regulations.

4. See civil plans for finished grades, location of drain inlets, catch basins, and underground utility locations.

5. All demolition debris shall be disposed of properly, legally and in a timely manner.

6. Protect all existing built elements, including but not limited to: paving, walls, columns, curbs, and steps. All existing built elements shall be protected during construction activities. Restore any damaged items to their original condition to the satisfaction of the owner's representative.

7. All existing trees, shrubs, and ground cover protected not indicated to be removed shall be protected from construction activities.

8. Seed all areas disturbed by construction activities.

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