



**US Army Corps  
of Engineers**

Philadelphia District

Wanamaker Building

100 Penn Square East

Philadelphia, PA 19107-3390

ATTN: CENAP-OP-R

# Public Notice

Public Notice No.

**CENAP-OP-R-2014-0022**

Date

**MAR 06 2015**

Application No.

File No.

In Reply Refer to:

**REGULATORY BRANCH**

This District has received an application for a Department of the Army permit pursuant to Section 404 of the Clean Water Act (33 U.S.C. 1344).

The purpose of this notice is to solicit comments and recommendations from the public concerning issuance of a Department of the Army permit for the work described below.

**APPLICANT:** Pennsylvania Departments of Public Welfare and General Services

**AGENT:** Alfred Benesch and Company

**WATERWAY:** Hospital Creek

**LOCATION:** Wernersville State Hospital, South Heidelberg Township, Berks County, Pennsylvania

**ACTIVITY:** The applicant proposes to perform a total of 1,585 linear feet stream channel restoration along Hospital Creek within the Wernersville State Hospital property. The project can be broken into 4 subsections: A) 680 linear feet of stream restoration within the Mill Dam basin (including Mill Dam removal) immediately at and upstream of the dam, B) restoration of 495 linear feet of waterway immediately below the Mill Dam (including removal of the stilling basin area with ensuing, C) downstream restoration of 100 linear feet of stream below the Sportsman Road crossing, and D) the downstream restoration of 310 linear feet of stream just below the Main Street creek crossing including removal of a small concrete check dam. The proposed project would result in the disturbances to 2.51 acre of regulated waters including 0.37 acre of wetlands associated with the conversion of wetland to stream channel and 2.08 acres of open waters below the ordinary high water mark associated with stream channel re-construction and enhancement. It should be noted that the mill dam, a PADEP Category 1 Hazard Potential Dam, was drawn down in 1986 due to safety concerns and potential for a dam failure.

More specifically, please see the following project description.

**A) Within the Mill Dam Basin (including the original mill dam area)** -Activities would include the removal of the existing 248 linear foot concrete mill dam by utilizing an excavator in conjunction with a hydraulic hammer. In addition reconstruction of 680 linear feet of stream channel within the remaining basin (including the original dam site). The new 680 linear foot stream channel segment would include the construction of one (1) rock "J" hook and four (4) rock cross-vanes for grade control. The project would also result in the loss of a total of 0.31 acre

of emergent wetlands that developed within the basin sediments for channel construction and 0.06 acre of temporary impacts associated with silt fence construction. The 680 linear foot length of stream channel would be constructed of rock channel lining (3,860 cubic yards of R-7 Rip Rap and 600 cubic yards of AASHTO#57) and would also result in the permanent discharge of 0.99 acre of rock below the ordinary high water mark of the original basin outside of wetlands for channel construction and cross-vane/"J" hook construction.

**B) Within the Stilling Basin and immediately below** – Activities would include the removal of the existing 5,325 square foot concrete stilling basin just below the mill dam with creation of 100 linear feet of channel through the stilling basin and 395 linear feet downstream of the stilling basin by hydraulic hammer and excavator. The new 495 linear foot stream channel segment would include the construction of two (2) rock "J" hooks and two (2) rock cross-vanes for grade control. A 495 linear foot length of stream channel would be constructed of rock channel lining (3,340 cubic yards of R-7 Rip Rap and 540 cubic yards of AASHTO#57) and would also result in the discharge of 0.75 acre of rock below the ordinary high water mark of the existing creek for both permanent channel construction and cross-vane/"J" hook construction. One underground electrical line would be relocated from an aerial crossing on the existing steel bridge to an underground electrical line. This would require a trench approximately 4 ft wide by 68 linear foot long to be constructed perpendicular to the stream channel.

**C) Downstream Segment (Just Upstream of Sportsman Road Creek Crossing)** - Activities would include restoration of 100 linear feet of stream located 613 feet below the mill dam. A 100 linear foot length of stream channel would be restored with rock channel lining (1,700 cubic yards of R-7 Rip Rap and 300 cubic yards of AASHTO#57) and would also result in the discharge of 0.33 acre of rock below the ordinary high water mark of the existing creek for channel construction. No construction of cross-vanes or "J" hooks is proposed in this segment.

**D) Downstream Segment (Just downstream of Main Street Creek Crossing)**- Activities would include the removal of the existing 22 linear foot check dam located 180 linear feet below the Main Street creek crossing with restoration of 310 linear feet of existing channel. The new 310 linear foot stream channel segment would include the construction of two (2) rock cross-vanes for grade control. A 310 linear foot length of stream channel would be restored with rock channel lining (410 cubic yards of R-7 Rip Rap and 50 cubic yards of AASHTO#57) and would also result in the discharge of 0.07 acre of rock below the ordinary high water mark of the existing creek for both channel construction through the check dam, stream reconstruction, and cross-vane/"J" hook construction.

Additionally, up to 500 linear feet of channel at any point in time would be temporarily dewatered by placement of an upstream sandbag or "Jersey" type barrier dam and pump system with sump pit (1,000 square feet of rock temporarily placed below the ordinary high water mark). The dam and pump system would be moved along the stream as work progresses. The applicant has stated the following: A) that all banks would be stabilized with rock and vegetated with willow whips, B) that no temporary mats, culverts, or fill would be required to be placed within the wetlands for temporary access, C) wetlands within and adjacent to the mill dam basin to remain undisturbed would be fenced along the perimeter prior to construction, and D) with the exception of the work described in the area "within the stilling basin and immediately below" there will be no utility lines (underground or aerial) disturbed for the completion of the project.

PURPOSE: The applicant's stated purpose and need for the dam removal and associated stream restoration is to reduce the likelihood of the property flooding during extreme flow events from dam overtopping and stream channel deficiencies and to create stream habitat both upstream and downstream of the dam. The applicant has also stated that the need for removal of the existing PADEP Category 1 Hazard Potential Dam is also to remove the potential for loss of life and substantial economic loss through damage to private property, major highways, railroads, and utilities associated with dam failure.

A preliminary review of this application indicates that the proposed work would not affect listed species or their critical habitat pursuant to Section 7 of the Endangered Species Act as amended. As the evaluation of this application continues, additional information may become available which could modify this preliminary determination.

The decision whether to issue a permit will be based on an evaluation of the activity's probable impact including its cumulative impacts on the public interest. The decision will reflect the national concern for both protection and utilization of important resources. The benefits which reasonably may be expected to accrue from the work must be balanced against its reasonably foreseeable detriments. All factors which may be relevant to the work will be considered including the cumulative effects thereof; among those are conservation, economics, aesthetics, general environmental concerns, wetlands, cultural values, fish and wildlife values, flood hazards, flood plain values, land use, navigation, shore erosion and accretion, recreation, water supply and conservation, water quality, energy needs, safety, food and fiber production, mineral needs and welfare of the people. A Department of the Army permit will be granted unless the District Engineer determines that it would be contrary to the public interest.

The Corps of Engineers is soliciting comments from the public; Federal, State, and local agencies and officials; Indian Tribes; and other interested parties in order to consider and evaluate the impacts of this proposed activity. Any comments received will be considered by the Corps of Engineers to determine whether to issue, modify, condition or deny a permit for this proposal. To make this decision, comments are used to assess impacts on endangered species, historic properties, water quality, general environmental effects, and the other public interest factors listed above. Comments are used in the preparation of an Environmental Assessment and/or an Environmental Impact Statement pursuant to the National Environmental Policy Act. Comments are also used to determine the need for a public hearing and to determine the overall public interest of the proposed activity.

Comments on the proposed work should be submitted, in writing, within 15 days to the District Engineer, U.S. Army Corps of Engineers, Philadelphia District, Wanamaker Building, 100 Penn Square East, Philadelphia, Pennsylvania 19107-3390.

Review of the National Register of Historic Places (Register) indicates that no registered properties are located within the permit area of the work. However, an historic properties investigation has been conducted within the permit area. Historic properties eligible for listing on the Register are within the permit area and will be adversely affected by the proposed action. Further investigations and coordination with the SHPO is required to avoid, minimize or mitigate the "Adverse Effect" to the historic property.

Compensatory mitigation: Pursuant to 33 CFR 332 (the "Mitigation Rule"), the applicant has submitted that various alternatives for avoidance, minimization, and compensation for aquatic resources, such as wetlands, lost have been reviewed. The spillway for the dam is insufficient to pass the PADEP Chapter 105 regulated storm event. Therefore changes to the facility are mandated by PADEP. In the design of changes options such as spillway widening and channel modifications were reviewed. The least impact to the wetlands was achieved with the selected stream layout and dam removal.

The project would create uplift in the aquatic environment by allowing fish migration from below the dam to reaches further upstream due to the removal of the obstruction. The removal of the dam and use of willow stakings would remove the thermal impacts of the impounded water, allowing for more cold water aquatic species. The construction of the habitat would provide for the additional improvement to the aquatic resources. The channel would be constructed in such a manner that will allow for a low flow channel and a bench. The bench would be similar to the existing wetland area as during high water events it would be inundated and may develop into wetland areas in time.

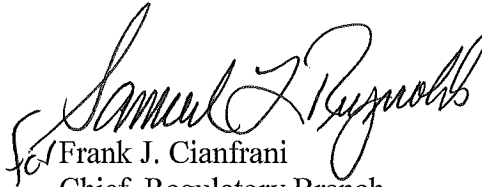
Although the project would directly remove a portion of the existing wetland located behind the dam, the project would maintain the stream channel and no permanent obstructions or encroachments will occur, allowing the area to remain an aquatic feature. The area being removed would be more conducive to natural reestablishment of wetlands if the natural habitat adjacent to the stream expands organically. Therefore compensatory mitigation should not be necessary nor is it intended for this project.

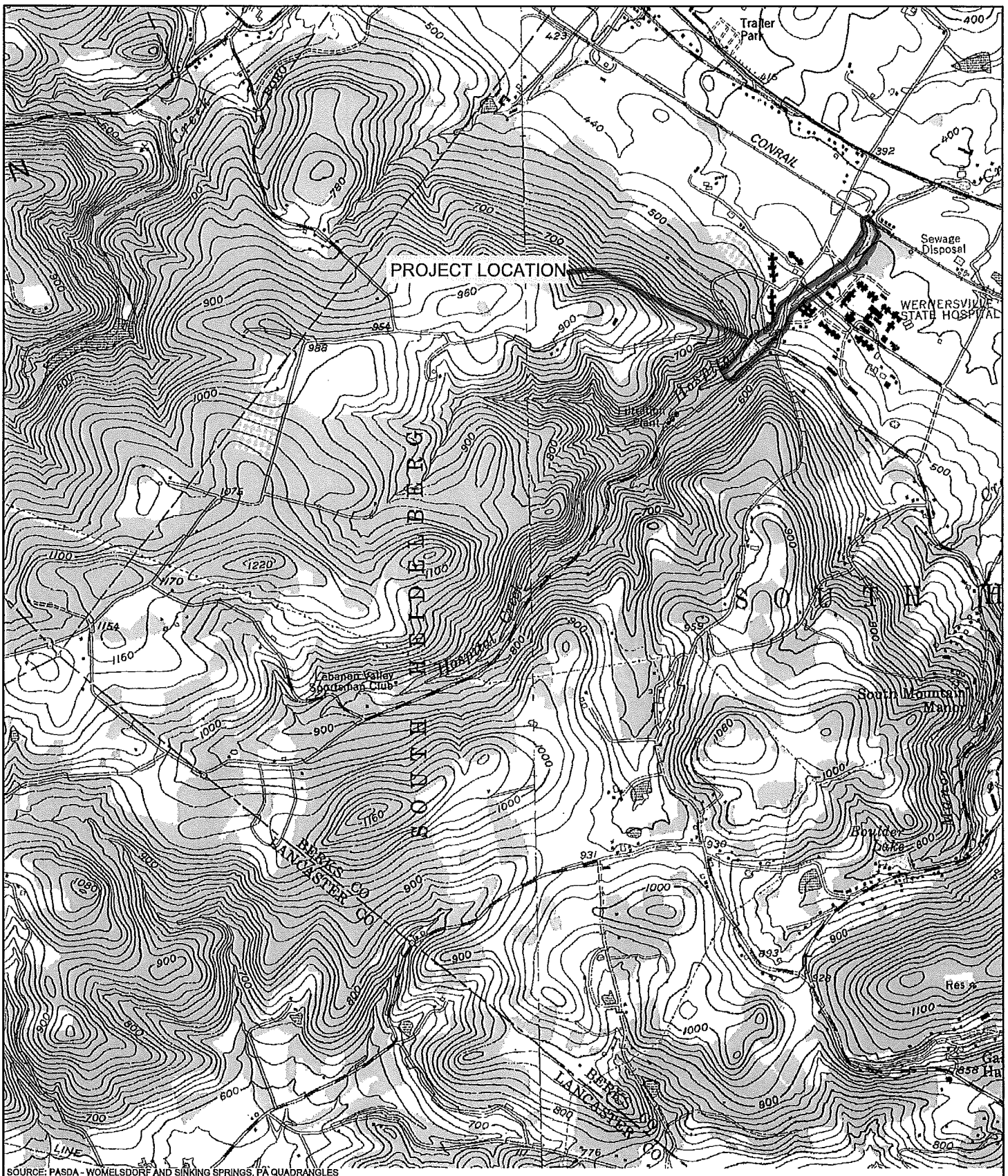
In accordance with Section 401 of the Clean Water Act, a Water Quality Certificate is necessary from the State government in which the work is located. Any comments concerning the work described above which relate to Water Quality considerations should be sent to this office with a copy to the State.

The evaluation of the impact of the work described above on the public interest will include application of the guidelines promulgated by the Administrator, U.S. Environmental Protection Agency, under authority of Section 404(b) of the Clean Water Act.

Any person may request, in writing, to the District Engineer, within the comment period specified in this notice, that a public hearing be held to consider this application. Requests for a public hearing shall state in writing, with particularity, the reasons for holding a public hearing.

Additional information concerning this permit application may be obtained by calling David J. Caplan at 215-656-6731, via email at David.J.Caplan@usace.army.mil, or by writing to this office at the above address.

  
Frank J. Cianfrani  
Chief, Regulatory Branch



**LOCATION MAP**  
**REPAIR BREACH MILL DAM BREAST**  
**WERNERSVILLE STATE HOSPITAL**  
**SOUTH HEIDELBERG TOWNSHIP**  
**BERKS COUNTY, PENNSYLVANIA**



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 570-622-4055

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 10/21/13

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**LOCATION MAP**

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PROJECT NO. D.G.S. 515-29 PHASE 1  
REPAIR/BREECH MILL DAM BREAST AND CONNECTING  
WATERWAY CONDUITS  
WERNERSVILLE STATE HOSPITAL  
SOUTH HEIDELBURG TOWNSHIP, BERKS COUNTY, PENNSYLVANIA

DRAWING INDEX	
Drawing No.	Title
C&1	COVER SHEET
C1	GENERAL NOTES
C2	INDEX PLAN
C3	GROUND PLAN
C4	GROUND PLAN PROFILE SHEETS
C5	SECTION PLAN
C6	PROPOSED SITE PLAN
C7	GRADING PLAN/PROFILE SHEETS
C8-C10	TYPICAL SECTIONS
C11	CROSS SECTIONS
C12-C16	SITE DETAILS
C17-C18	EROSION AND SEDIMENTATION CONTROL PLAN
C19	EROSION AND SEDIMENTATION CONTROL NOTES
C20-C21	WATER QUALITY AND SEDIMENTATION CONTROL DETAILS
C22-C25	



APPROVED \_\_\_\_\_ DATE \_\_\_\_\_



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COMMONWEALTH OF PENNSYLVANIA  
DEPARTMENT OF GENERAL SERVICES  
HARRISBURG, PENNSYLVANIA


**PROJECT NO. D.G.S. 515-29 PHASE 1**  
**REPAIR/BREACH MILL DAM BREAST AND**  
**CONNECTING WATERWAY CONDUITS**  
**WERNERSVILLE STATE HOSPITAL**  
**SOUTH HADDAM TOWNSHIP**  
**BERKS COUNTY, PENNSYLVANIA**

## COVER SHEET

DRYING BY RAID	DATE 02/24/15	DRAWING NO.  CS-1
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**CALL BEFORE YOU DIG!**

PENNSYLVANIA LAW REQUIRES  
3 WORKING DAYS NOTICE FOR  
CONSTRUCTION PHASE AND 10 WORKING  
DAYS IN DESIGN STAGE - STOP CALL

 **PA 1**

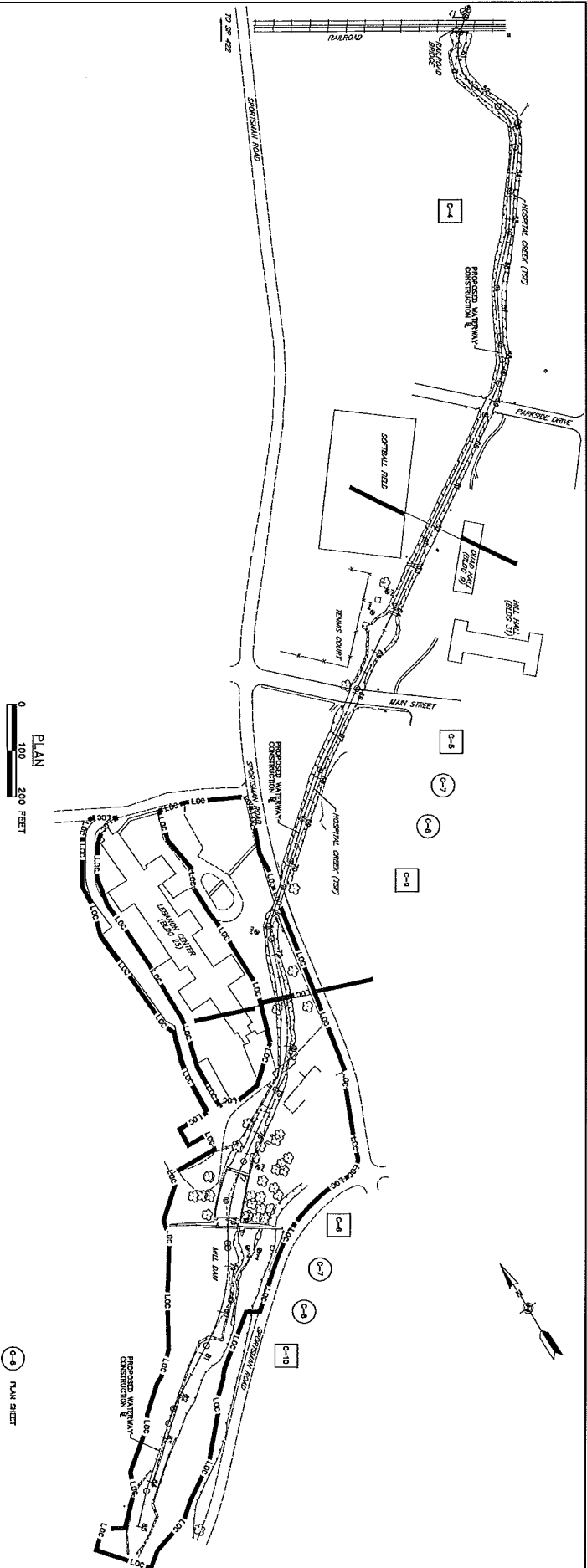
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PROJECT NO. D.G.S. 515-29 PHASE 1 REPAIR/BREACH MAIL DAY BRASST AND CONNECTING WATERWAY CONDUITS WERNERSVILLE STATE HOSPITAL BERKS COUNTY, PENNSYLVANIA		PROJECT NO. D.G.S. 515-29 PHASE 1 REPAIR/BREACH MAIL DAY BRASST AND CONNECTING WATERWAY CONDUITS WERNERSVILLE STATE HOSPITAL BERKS COUNTY, PENNSYLVANIA	
INDEX PLAN		INDEX PLAN	
DRAWN BY RMD CHECKED BY DMC	DATE 8/24/73 SCALE AS SHOWN	DRAWING TITLE C-2	DRAWING TITLE C-2



WERNERSVILLE STATE HOSPITAL DAM  
TEST PIT PROFILES

**GENERAL NOTES**

TRANSVERSE CONTAINS ARE NOTED AT THE LOCATIONS WHERE THE TEST PITS ARE OTHER THAN AT THE LOCATIONS NOTED ON THE ORIGINAL DRAWINGS. THEREFORE, ANY INTERPOLATED DATA FROM TEST PITS IS A SUBJECTIVE INTERPOLATION.

THIS DATA PROFILE IS BASED ON THE SITE AREA BASED ON THE CROSS-SECTIONS AND/OR LAB TEST RESULTS.

TP-1 WAS NOT PERFORMED DUE TO ITS PROXIMITY TO THE UNDERGROUND TUNNEL AND NEARBY TREES.

**TP-2**

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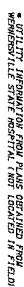
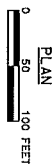
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MICHAEL J. HEDDERLEY, TRUSTEES BEERS COUNTY, PENNSYLVANIA		
<h2 style="text-align: center;">GEOMETRY PLAN</h2>		
DRAWN BY RMD	DATE 8/24/13	DRAWING NO. C-3
CHECKED BY DPC	DATE 8/6/2013	

WEAVERSVILLE STATE INDUSTRIAL SOUTH HEBELTOWN TOWNSHIP BROWN COUNTY, INDIANAPOLIS	
<h1>GEOMETRY PLAN</h1>	
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DEPARTMENT OF GENERAL SERVICES  
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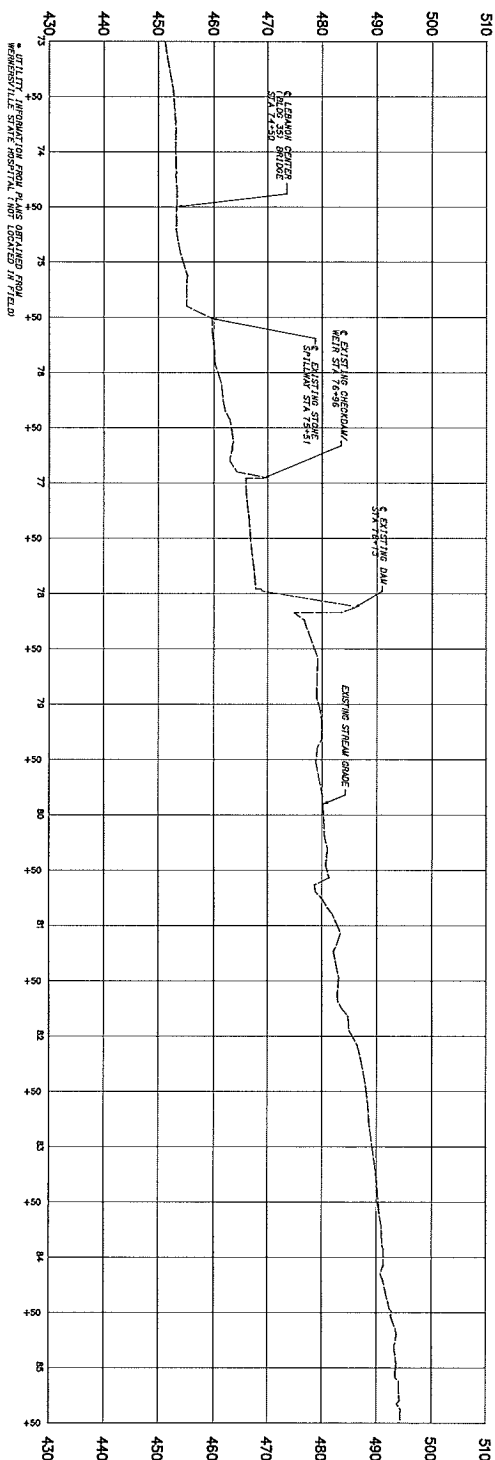
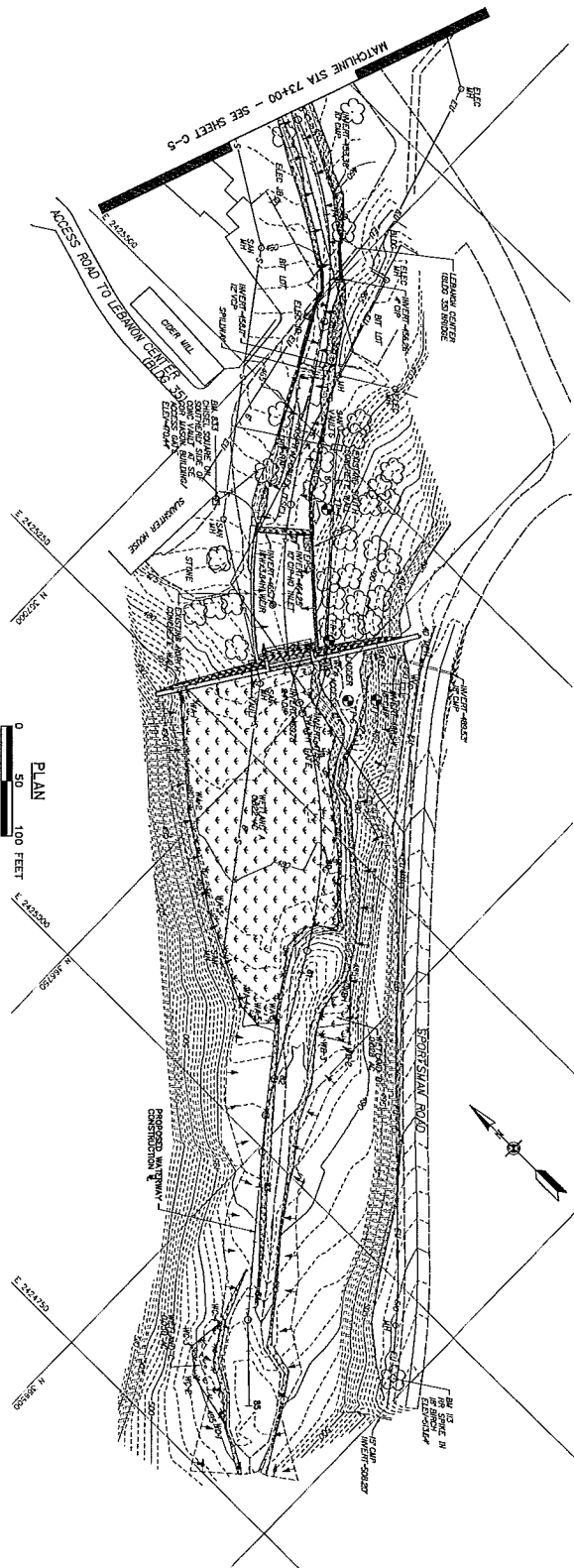
REPAIR/BREECH MILL DAM BREAST AND  
CONNECTING WATERWAY CONDUITS  
WERNERSMILLE STATE HOSPITAL  
SOUTH HEDGERBORG TOWNSHIP  
BIRDS COUNTY, PENNSYLVANIA

EXISTING SITE PLAN / PROFILE

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AS-BUILT REVISIONS	
DESCRIPTION	DESCRIPTION
1	RCDD COMMENTS - 5/20/14
2	USACE COMMENTS - 2/26/15



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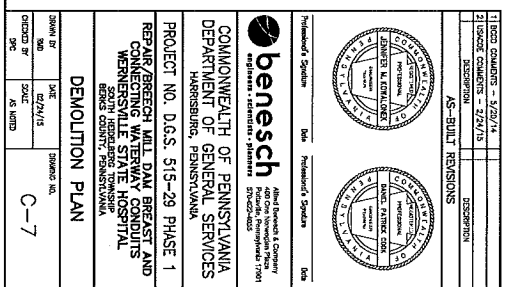
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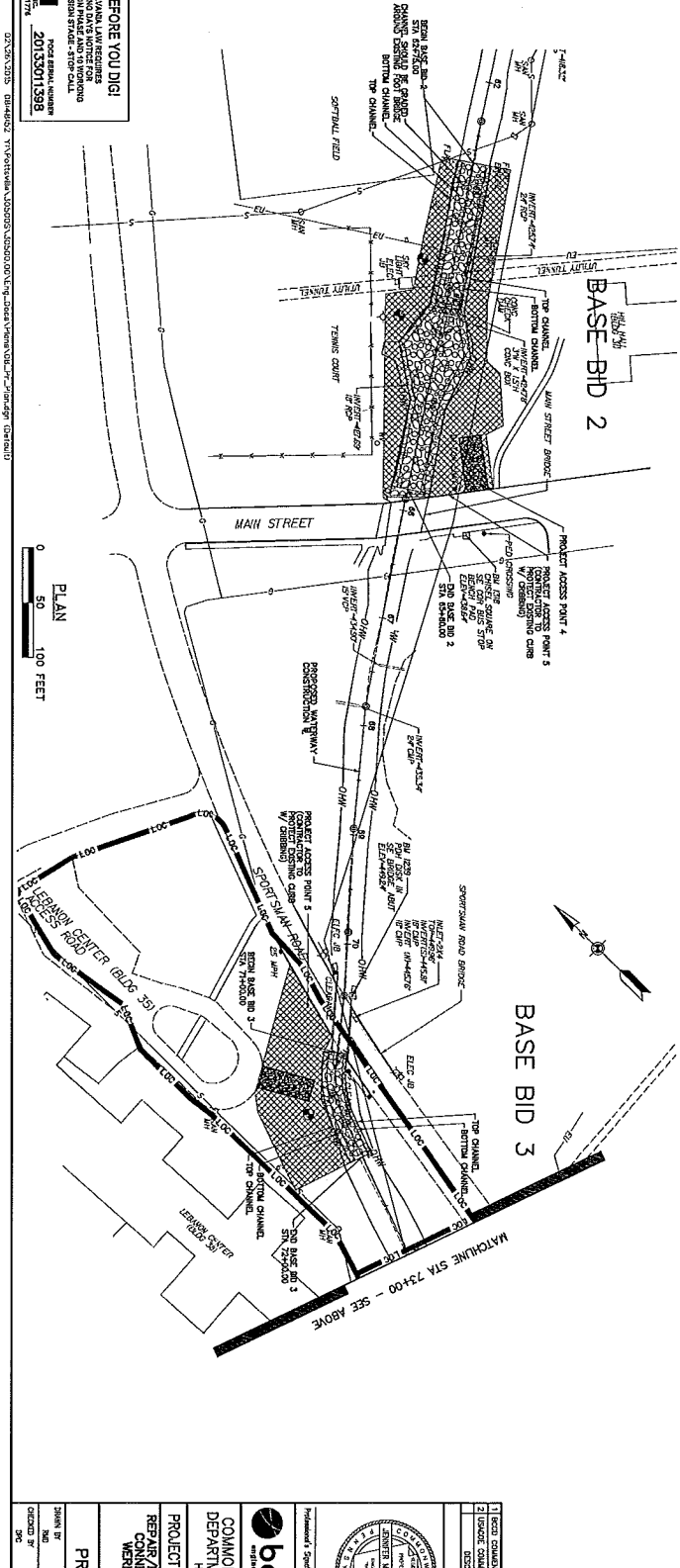
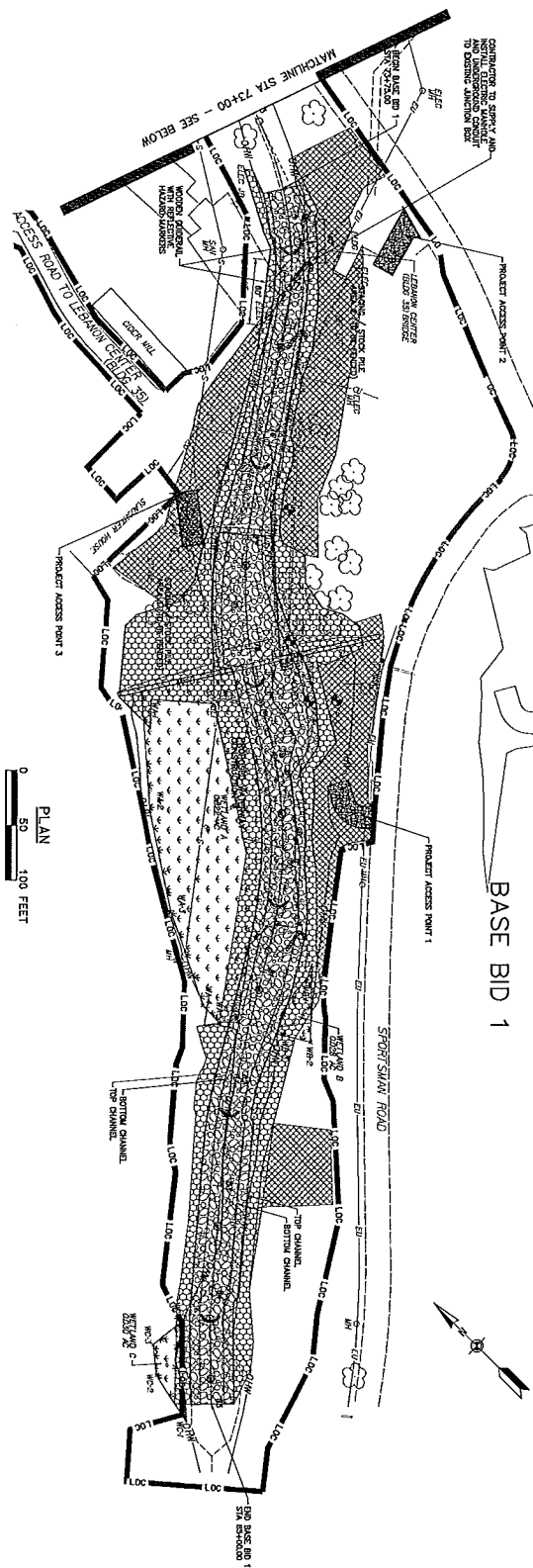
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 PENNSYLVANIA LAW REQUIRES  
 CONSTRUCTION SITES TO BE  
 MARKED WITH WHITE PILES  
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 ANY EXCAVATION. STOP-CALL  
 MARK-ADVANCE (SCAM) IS  
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99	100% COMPLETION - 3/25/14	
100	100% COMPLETION - 3/25/14	

**benesch**  
 BENESCH & ASSOCIATES, P.C.  
 1000 PENNSYLVANIA AVENUE, SUITE 1200  
 PHILADELPHIA, PA 19106  
 TEL: 215-381-1000  
 FAX: 215-381-1001  
 WWW.BENESCH-PA.COM

**COMMONWEALTH OF PENNSYLVANIA**  
 DEPARTMENT OF GENERAL SERVICES  
 HARRISBURG, PENNSYLVANIA  
 PROJECT NO. D.G.S. 515-29 PHASE 1  
 REPAIR/BREACH MILL DAM BREAST AND  
 CONCRETE LINING AT ST. JOSEPH'S  
 HOSPITAL  
 SOUTH HARRISBURG TOWNSHIP  
 BERKS COUNTY, PENNSYLVANIA

**PROPOSED SITE PLAN**

DRAWN BY: JMC  
 CHECKED BY: JMC  
 DATE: 3/25/14  
 SCALE: AS SHOWN

DWG. NO.: C-8

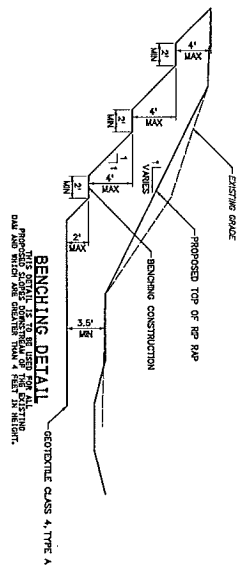
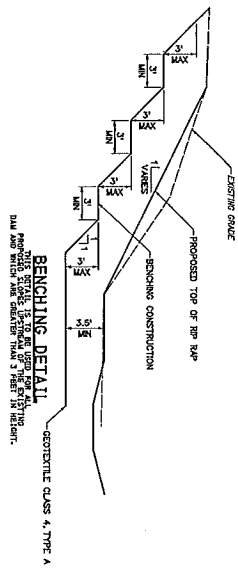
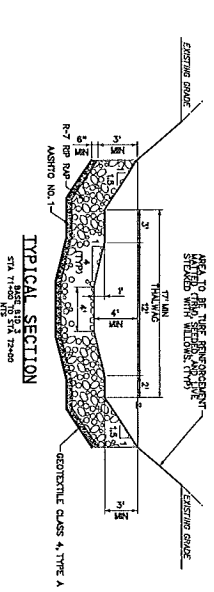
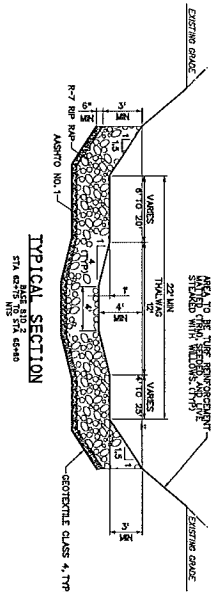
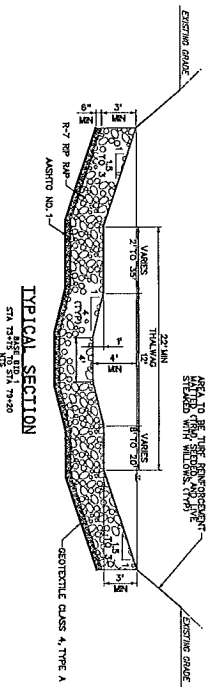
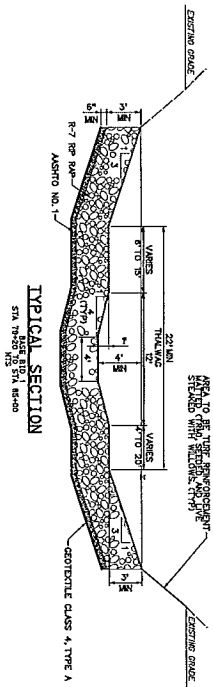






**CALL BEFORE YOU DIG!**  
 PENNSYLVANIA LAW REQUIRES  
 A CALL TO 800-488-7872  
 PRIOR TO ANY EXCAVATION  
 OR CONSTRUCTION WORK  
 THAT MAY AFFECT  
 UNDERGROUND UTILITIES.  
 PENN. STATE POLICE  
 20155071398  
 PO BOX 10000  
 HARRISBURG, PA 17105-0000

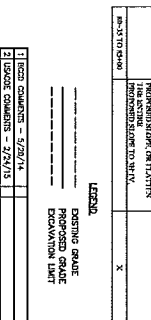
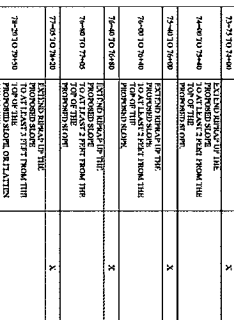
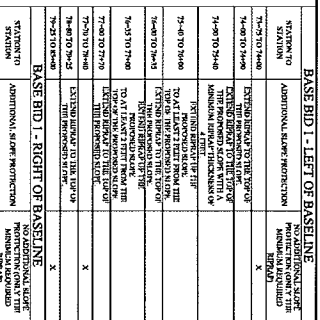
03/28/2015 08:48:53 T:\PROJECTS\2015\20150328\03\10\10\Drawings\01\10 Section.dgn User: dgm



1. PROJECT NUMBER - 20150328		2. ISSUE NUMBER - 20150328	
3. PROJECT DESCRIPTION		4. PROJECT LOCATION	
AS-BUILT REVISIONS			
<b>benesch</b> David D. Benesch & Company Engineers • Architects • Planners 570-422-4000 570-422-4001			
COMMONWEALTH OF PENNSYLVANIA DEPARTMENT OF GENERAL SERVICES HARRISBURG, PENNSYLVANIA PROJECT NO. D.G.S. 515-29 PHASE 1 REPAIR/BENCH WML DAM BREAST AND CONNECTING WATERWAY CONDUITS WERNERSVILLE STATE HOSPITAL BERKS COUNTY, PENNSYLVANIA			
DRAWN BY: [Name] CHECKED BY: [Name] DATE: 02/24/15 SCALE: AS SHOWN		REVISION NO.: C-11	



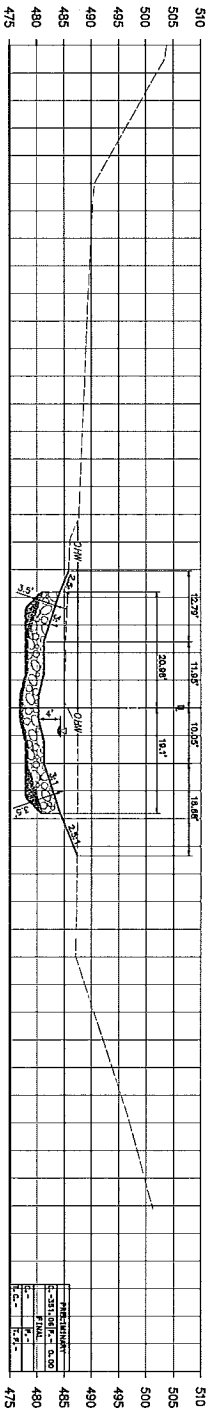
**BASE BID 1 - LEFT OF BASELINE**



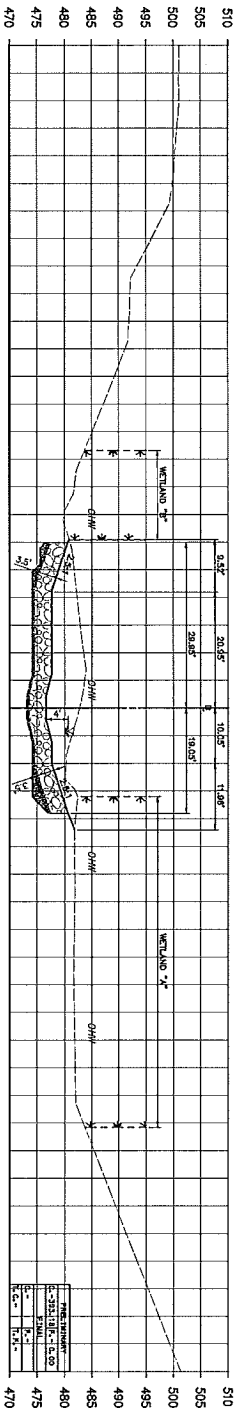
BEGIN BASE BID  
STA 73+75.00

COMMONWEALTH OF PENNSYLVANIA DEPARTMENT OF GENERAL SERVICES HARRISBURG, PENNSYLVANIA			
PROJECT NO. D.G.S. 515-29 PHASE 1			
REPAIR/BREACH MAIN DAM BRIGSARD CONNECTING WATERWAY CONDUITS MERRISVILLE STATE HOSPITAL BERG COUNTY, PENNSYLVANIA			
CROSS SECTIONS			
SECTION BY NO.	DATE	DRAWING NO.	
DESIGNED BY SCALE	02/27/15		C-13

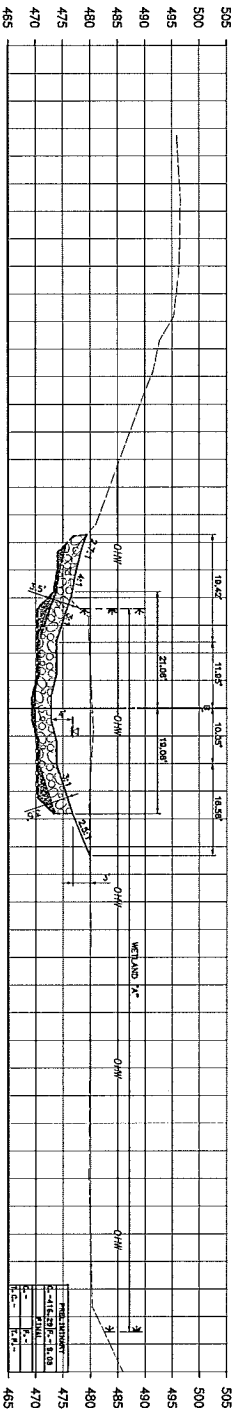




82+00



81+00



80+00

BASE BID 1  
SCALE 1"=4'

CALL BEFORE YOU DIG!  
CONSTRUCTION MUST BE IN ACCORDANCE WITH THE  
PENNSYLVANIA DEPARTMENT OF TRANSPORTATION  
STANDARD SPECIFICATIONS FOR CONSTRUCTION  
OF PUBLIC WORKS, EDITION 2013, SECTION 101.01  
AND 101.02.  
PA 1  
2013071398

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**benesch**  
engineers • architects • planners  
PRO-02-002

ANDREW S. BENECH & COMPANY  
PENNSYLVANIA DEPARTMENT OF TRANSPORTATION  
HARRISBURG, PENNSYLVANIA

PROJECT NO. D.G.S. 515-29 PHASE 1  
REPAIR/BREACH MILL DAM BREAST AND  
CONNECTING WATERWAY CONDUITS  
WERNERSVILLE STATE HOSPITAL  
BERKS COUNTY, PENNSYLVANIA

**CROSS SECTIONS**

DRAWN BY: JMC  
CHECKED BY: JMC  
DATE: 02/24/15  
SCALE: AS SHOWN

SECTION NO. C-15

**LEGEND**

--- DESTROYED GRADE  
--- PROPOSED GRADE  
--- EXISTING GRADE

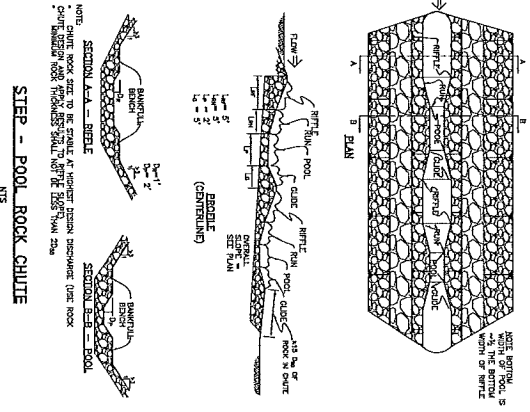
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2	ISSUE CORRECTIONS - 2/25/14	2/25/14

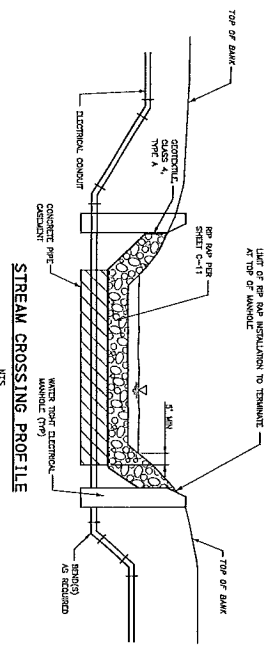
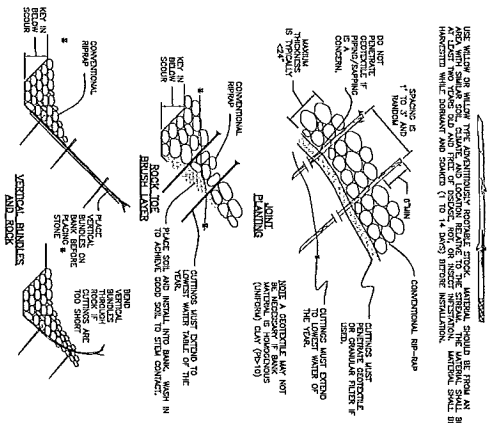




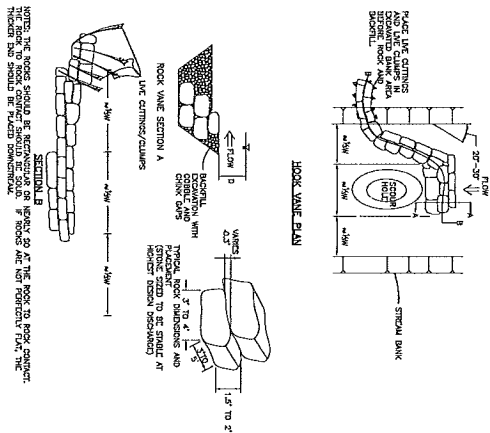
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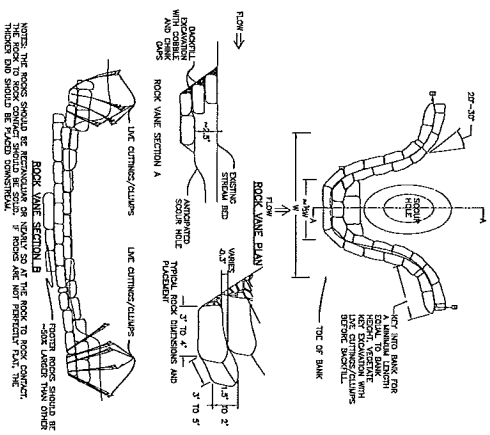
CUTTINGS AND ROCK - VARIOUS OPTIONS



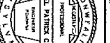
HOOK VANE



**SMALL CROSS VANE**



DESIGN BY	DWG.	SHEET NO.
SCALE	BY/DATE	
CHECKED BY	SCALE	
DATE	AS ORDERED	





**benesch**  
ARCHITECTS ENGINEERS PLANNERS INTERIORS


1400 East Hancock & Corporate  
 Center Drive, Harrisburg, PA 17101  
 TEL: 717-633-1000 FAX: 717-633-1003

COMMONWEALTH OF PENNSYLVANIA  
 DEPARTMENT OF GENERAL SERVICES  
 HARRISBURG, PENNSYLVANIA

PROJECT NO. D.G.S. 515-29 PHASE 1  
 REPAIR/BREACH MILL DAM BRIDGE AND  
 CONNECTING WATERWAY CONDUITS  
 WERNERSVILLE STATE HOSPITAL  
 BERKS COUNTY, PENNSYLVANIA

## SITE DETAILS



Revisions / Systems	Date	Revisions / Systems	Date
1. RECORD CONDITIONS - 5/22/74			
2. GROUND CONDITIONS - 5/22/74			
DESCRIPTION		DESCRIPTION	

**AS-BUILT REVISIONS**

SITE DETAILS		DEMAND NO.
ISSUED BY PCC	DATE 02/24/15	C-18
ISSUED BY PCC	DATE AS NOTED	



### SOIL SUPPLEMENTS APPLICATION RATES

## APPLICATION RATES

APPLY SOIL SUPPLEMENTS AS FOLLOWS, UNLESS OTHERWISE INDICATED

- PLANTERED AGRICULTURAL LIMESTONE - 800 POUNDS PER 1000 S.Y.
- 10-20-20 ANALYSIS COMMERICAL - 40 POUNDS PER 1000 S.Y.
- FERTILIZER

• 38-0-0 SUPERCON FERTILIZER - 50 POUNDS PER 1000 S.Y.,  
-40-  
38-0-0 38-0-40 SUPER-  
CONCO FERTILIZER - 50 TO 75 POUNDS / 1000  
COATED 100% FERTILIZER  
-40-  
31-0-0 100% FERTILIZER - 60 POUNDS PER 1000 S.Y.,  
-40-  
31-0-0 100% FERTILIZER - 60 POUNDS PER 1000 S.Y.,

## SOIL SUPPLEMENTS



POLYMERIZED AGRICULTURAL LIME,IN CONJUNCTION TO THE  
SUPPLEMENTS OF THE AGRICULTURAL LIME UNIVERSAL AG OF 979, P.L.

2. COMMERCIAL FERTILIZER. CONFORMANCE TO THE REQUIREMENTS OF THE FERTILIZER ACT, CONTINGENTS AND PLANT GROWTH SUBSTANCE LAW, AND THE FERTILIZER REGULATIONS OF 1972, 1973 AND 1974. ANALYSIS OF THE USE FOR FORMULATIONS OF 10-20-20 ANALYSIS FOR SEEDS AND SOOED ANALYSIS USE FOR FORMULATIONS OF 20-20-5 AND 14-8-16 ANALYSIS CONTROLLED RELEASE FOR TREE SHEDDING AND TREE PLANTING. ANALYSIS OF THE FORMULATIONS OF 14-8-16 ANALYSIS CONTROLLED RELEASE FOR TREE SHEDDING AND TREE PLANTING. USE OTHER THAN FERTILIZER. ANALYSIS OF THE FORMULATIONS OF 14-8-16 ANALYSIS CONTROLLED RELEASE FOR TREE SHEDDING AND TREE PLANTING. USE OTHER THAN FERTILIZER. ANALYSIS AS INDICATED OR SPECIFIED IN THE PROPOSAL.

[illegible]

- 30-0-0 TO 38-0-0 COATED UREA WITH A 7-DAY  
RESOLUTION RANGE OF 40% TO 30%
- 31-0-0 1800
- - COARSE GRADE  
60.7 TO 2.5 MM
- WATER INSOLUBLE NITROGENING -27% MAXIMUM
- OTHER ANALYSES AS INDICATED, SEE POLYMER 30.

1	FEED COUNTS = 3/29/74
2	FEED COUNTS = 3/29/75

DESCRIPTION	DISPOSITION
<b>AS-BUILT REVISIONS</b>  	

9.00 PAT. FEE	
3.00	
4.00 Total	\$6.00
3.00	

	<b>benesh</b>	Attn: Barbara C. Conway 400 One Woodward Place P.O. Box 1000 Pittsburgh, PA 15224-0005
experts • dentists • planners		

Practitioner's Signature	Date	Practitioner's Signature	Date

COMMONWEALTH OF PENNSYLVANIA  
DEPARTMENT OF GENERAL SERVICES  
HARRISBURG, PENNSYLVANIA

[illegible]

Contract No.	C-20
Contract No.	02/24/15
Contract No.	SOCC
Contract No.	AS IMPD

	ORDERED BY	DATE	U-20
	DATE	AS NOTED	

	ORDERED BY	DATE	U-20
	DATE	AS NOTED	

TOALGAE, FREE FROM FOREIGN MATERIAL, COARSE STEMS, AND ANY SUBSTANCES TOXIC TO PLANT GROWTH, ALSO, FREE FROM MATERIAL SEED BEING, STALKS OR ROOTS OF PROHIBITED AND NOXIOUS WEEDS, BOTH AS DEFINED BY LAW.

WHEN REQUESTED, AND PRIOR TO PROCEED THEREWITH, FURNISH A CERTIFIED PHYSICAL AND CHEMICAL ANALYSIS FOR MIDGE.

USE MIDGE SEPARATELY OR, IF INDICATED IN COMBINATION WITH WEED BARRIER LAM, AS SPECIFIED IN SECTION 102.010, BUT DO NOT USE CRUSSED ADJUVANT WITH WEED BARRIER LAM.

1. SEEDED AREAS, EITHER ONE OR A COMBINATION OF THE FOLLOWING, AS SPECIFIED:

1A. HAY, TIMOTHY HAY, MIXED CLOVER AND TIMOTHY HAY, OR OTHER ACCEPTABLE NATIVE OR FORAGE GRASSES, WELL-CURED TO LESS THAN 20% MOISTURE CONTENT, BY WEIGHT.

1B. STRAW, EITHER WHEAT OR OAT STRAW, REASONABLE PRICE OF Viable SEED, WELL-CURED TO LESS THAN 20% MOISTURE CONTENT, BY WEIGHT.

MULCHING SEEDED AREAS. PLACE MULCH OF THE KIND INDICATED, IMMEDIATELY AFTER SEEDING OR WITHIN 48 HOURS AFTER SEEDING IS COMPLETED. UNLESS OTHERWISE INDICATED, PLACE ONLY STRAW OR WOOD CELLULOSE OVER TOPSEEDED AREAS. USE HAY, STRAW, OR WOOD CELLULOSE IN OTHER AREAS AS INDICATED OR SPECIFIED.

PLUCKED, OR STALK REMOVED, IN A CONTINUOUS MANNER, AT A MAXIMUM RATE OF TWO POUNDS PER 1,000 SQUARE YARDS, OR AS OTHERWISE INDICATED,† DIRECTED, INCREASE THE RATE OF APPLICATION, DEPENDING UPON THE MATERIAL USED, SEASON, SOIL CONDITIONS, OR METHOD OF APPLICATION, AN ACCEPTABLE MECHANICAL BLOWER MAY BE USED TO APPLY MULCH, MATERIALS WHICH CUT MULCH INTO SHORT PIECES WILL NOT BE PROTECTED ANCHOR MULCH WITH SELECTED MATCH BIRDS APPLIED AT THE FOLLOWING RATES:

- WOOD PILES, 30 POUNDS PER 1000 SQUARE YARDS
- RECYCLED-COLLATOR PILES, 30 POUNDS PER 1000 SQUARE YARDS
- POLYMERALITE DRAINAGE MAT MANUFACTURER'S RECOMMENDED RATES
- POLYVINYL ALCOHOL AT MANUFACTURER'S RECOMMENDED RATES
- RECYCLED COLLATOR PILES/WOOD PILES, 30 POUNDS PER 1000 SQUARE YARDS

NOTE: WOOD PILES MAY BE INDIVIDUALLY IN A COMBINATION WITH THE OTHERS. THE TOTAL WEIGHT OF THE PILES AND SOIL SPREADERS FOR AN INTERPOLARATED RATE OF 320 POUNDS PER 1000 SQUARE YARDS SHOULD BE OBSERVED.

ON TROPICAL ISLANDS, TROPICAL SEEDS AND/OR RELATED INCORPORATE WITH TILLAGE PRIOR TO PLANTING SEEDING.

<sup>1</sup> PLASTIC, A UNIFORMLY EXTRUDED, RECTANGULAR, PLASTIC MESH MEETING THE FOLLOWING REQUIREMENTS:

COLOR	BLACK, GREEN, OR CLEAR
WEIGHT	-0.23 OUNCE PER SQUARE YARD/ANSDUM

MESH OPENING	NOMINAL YARN BY YARN
<sup>2</sup> / <sub>2</sub> COCONUT CORE, UNDYED, BIODEGRADABLE COCONUT CORE YARN WOVEN INTO A MESH MEETING THE FOLLOWING REQUIREMENTS:	
WEIGHT	-6 OUNCES PER SQ. YARD MINIMUM

[illegible]

TABLE C	
SOL. SUPPLEMENTS	APPLICATION RATE PER 1000 SQ. YD. (LBS.)
L.M.C.	800
FERTILIZER 10-20-20 FORMULA W & E	140

**CALL BEFORE YOU DIG!**  
PROTECT YOUR LIFE AND LIMBS  
3 WEEKEND DAYS NOTICE FOR  
CONSTRUCTION PHASE AND 15 WORKING  
DAYS IN DESIGN STAGE - 876-22-CALL

IN ACCORDANCE WITH THE CURRENT POLICES AND PRACTICES IN THE COMMONWEALTH OF PENNSYLVANIA TO CONTROL EROSION, THE CONTRACTOR SHALL, AT HIS EXPENSE, BE REQUIRED TO CONFORM TO THE FOLLOWING AS APPLICABLE AND IN ACCORDANCE WITH INSTRUCTION OF THE COUNTY CONSERVATION DISTRICT:

2. PERFORM ALL WORK IN ACCORDANCE WITH CHAPTER 302, EROSION CONTROL, REGULATIONS.
3. INSTALL ALL SOIL EROSION AND SEDIMENT CONTROL PRACTICES PRIOR TO ANY MAJOR DISTURBANCE OR CONSTRUCTION OF ANY TYPE. EROSION CONTROL MEASURES MUST BE MAINTAINED UNTIL PROPER STABILIZATION AND VEGETATION RECOVERY IS ESTABLISHED.
4. CONDUCT ALL OPERATIONS AS SPECIFIED IN THE EROSION AND SEDIMENT POLLUTION CONTROL PLAN AND SUCH A WORKER TO MAINTAIN TURBIDITY IN STREAMS, DO NOT DISCHARGE WATER CONTAINING SEDIMENT OR POLLUTANTS INTO THE STREAMS.

5. PERMANENTLY ATTACH TO 500 ALL DISPOSED AREAS IMMEDIATELY AFTER FINAL GRADING, WHICH AS NECESSARY, UNIT SECTIONS IS ESTABLISHED.

6. DISTURBED AREAS SHALL BE CONSIDERED PERMANENTLY STABILIZED WHEN A PERMANENT, 70% APPROPRIATELY PLANTED COVER HAS BEEN ACHIEVED OR THE DISTURBED AREA IS COVERED WITH AN APPROPRIATE STABILIZATION COVER. STABILIZATION OF AREAS DISTURBED THROUGH DISPERSED DISPOSAL AND SEDIMENTATION CONTROLS MUST BE REACHED. AREAS DISTURBED THROUGH REMOVAL OF THE CONTROLS MUST BE STABILIZED IMMEDIATELY.

7. STORAGEE HEIGHTS MUST NOT EXCEED 35-FT. STORAGEE SLOPES MUST BE 2:1 OR FLATTER.

5. UPON COMPLETION OF TEMPORARY CESSATION OF THE BATH OPERATING ACTIVITY, OR ANY STAGE THEREOF, THE PROJECT MUST BE IMMEDIATELY STABILIZED. DURING NON-OPERATING PERIODS ALL STABILIZATION MEASURES MUST BE MAINTAINED AND THE PROJECT MUST BE RE-OPERATED WITHIN 10 DAYS AFTER THE STABILIZATION MEASURES HAVE BEEN COMPLETED. IF THE PROJECT IS NOT RE-OPERATED WITHIN 10 DAYS AFTER THE STABILIZATION MEASURES HAVE BEEN COMPLETED, THE PROJECT WILL BE CONSIDERED ABANDONED AND THE LAND MUST BE STABILIZED IN ACCORDANCE WITH RELEVANT FEDERAL REGULATIONS.

13. N. CERTAIN AREAS, DUE TO SITE LIMITATIONS AND AVAILABLE WORKSPACE, STIMULANT FILTER BAGS WILL BE SHOWN OR LAYED, DUST SUPPRESSANT, OR OTHERWISE, KEEP DUST WITHIN TOLERABLE LIMITS AT THE SITE.

14. EXCESS FILL WILL BE REMOVED DIRECTLY FROM THE SITE TO A WASTE SITE APPROVED BY THE PROFESSIONAL. THE CONTRACTOR SHALL ASSURE THAT AN EROSION AND SEDIMENT CONTROL PLAN HAS BEEN PREPARED, APPROVED BY THE BUREAU COUNTY CONSERVATION DISTRICT, AND IS BEING IMPLEMENTED AND MAINTAINED FOR ALL SOIL AND/OR ROCK SPILL AND BORROW AREAS, REGARDLESS OF THEIR LOCATIONS.

14. ALL TOPSOIL FROM THE PROTECTED SITE PREPARATION WILL BE STOCKPILED AT A SITE CHOSEN BY THE CONTRACTOR AND SEENED TO PREVENT FURTHER EROSION. ALL PILES WILL BE REVEALED AND ANY EXPOSED ROOTS WILL BE CUT OFF. THE EXPOSED ROOTS WILL BE STOCKPILED TO BE REMOVED FROM THE SITE. THE TOPSOIL FROM THE PROTECTED SITE WILL BE STOCKPILED TO BE REVEALED THROUGHOUT THE SITE.

15. STOCKPILE ALL EXCAVATION/DISMANTLEMENT MATERIALS UPON COMPLETION OF WORKING.

[illegible]

20. WATER: THE QUALITIES AND QUANTITIES OF OCEANWATER WILL BE MONITORED THROUGH THE ESTABLISHMENT OF A MONITORING PROGRAM. THE MONITORING PROGRAM WILL BE DESIGNED TO MONITOR AND EVALUATE HAZARDOUS WASTE STORAGE, HANDLING, AND DISPOSAL. MONITORING WILL BE CONDUCTED BY THE U.S. ENVIRONMENTAL PROTECTION AGENCY (EPA) AND THE U.S. GEOLOGICAL SURVEY (USGS).

23. NOTIFY THE BERKS COUNTY CONSERVATION DISTRICT 72 HOURS IN ADVANCE OF ANY LAND DISTURBANCE ACTIVITY AT THE FOLLOWING ADDRESS:  
BERKS COUNTY CONSERVATION DISTRICT  
6328 COUNTY WHEELER ROAD  
PO BOX 100  
LEWISTOWN, PA 17342  
PHONE (610) 372-1487  
FAX (610) 476-7068

[illegible]

FILTER BAGS MAY BE USED TO FILTER WATER PUMPED FROM DISTURBED AREAS PRIOR TO DISCHARGING TO WATERS OF THE COMMONWEALTH. THEY MAY ALSO BE USED TO FILTER WATER PUMPED FROM THE SEDIMENT STORAGE AREAS OF SEDIMENT BASINS.

THE CONTRACTOR SHALL CONTACT THE GOVERNING CONSERVATION DISTRICT LOCATION APPROVAL PRIOR TO PLACEMENT OF ANY FILTER BAGS. THE PUMPING RATE SHOULD BE SPECIFIED ON THE PLAN DRAWINGS NEXT TO THE PUMP. TYPICAL, DETAIL, PUMPING RATES WILL VARY DEPENDING ON THE SIZE OF THE FILTER BAG, AND THE TYPE AND AMOUNT OF SEDIMENT DISCHARGED TO THEM. FILTER BAGS SHOULD BE INSTALLED ACCORDING TO THE DETAILS SHOWN IN STANDARD CONSTRUCTION DETAILS, AND THE PAPER ENCLOSED AND SEDIMENT POLLUTION CONTROL PROGRAM MANUAL, (MARCH 2007), PAGES 53-55.

A FETTERABLE MEANS OF ACCESSING THE BAG WITHIN MANOIRS FOR PURPOSES OF DISPOSAL SHOULD BE PROVIDED. FILTER BAGS SHOULD BE REMOVED FROM SACK WHEN THEY BECOME ONE-HALF FULL. SPARE BAGS SHOULD BE AVAILABLE TO REPLACE THOSE THAT HAVE FAILED OR ARE FILLED.

[illegible]

3. LETTER TELL SITE SUPERVISOR HAS BEEN ADVISED THROUGHOUT  
1. ALL PUMPING OF SEDIMENT LOOSE WATER SHALL BE THROUGH A SEDIMENT  
CONTROL BAY, SUCH AS A PLUMED WATER FILTER AND DISCHARGING OVER  
NON-DISTURBED AREAS.

2. IMMEDIATELY AFTER EARTH DISTURBANCE ACTIVITIES CEASE, THE OPERATOR SHALL STABILIZE ANY AREAS DISTURBED BY THE ACTIVITIES DURING NON-OPERATING PERIODS, WHICH SHALL BE APPLIED AT THE SPECIFIED RATES, BE DESTROYED AREAS WHICH ARE NOT AT PUNISHED GRADE AND WHICH WILL BE REDESIGNED WITHIN A YEAR AFTER THE DISTURBANCE AND WHICH WILL BE REDESIGNED WITHIN A YEAR AFTER THE DISTURBANCE IN ORDER TO PREVENT EROSION AND SEDIMENT BARRS MUST BE REMOVED, AREAS DESTROYED DURING REMOVAL OF THE BARRS MUST BE STABILIZED IMMEDIATELY.

4. LIMIT THE SIZE OF STANDZONES. ALL PROTEIN AND STAMINANT BARS MUST BE MAINTAINED PROPERLY. MAINTENANCE MUST INCLUDE INSPECTIONS OF ALL PROTEIN AND STAMINANT CONTAINERS BY THE BAR MANAGER, INSPECTOR, AND BAR WORKER. INSPECTIONS MUST BE CONDUCTED AT THE FOLLOWING FREQUENCIES: PROTEIN AND STAMINANT CONTAINERS, INCLUDING CANS, MUST BE INSPECTED WEEKLY; REAGENTS, INCLUDING BULKING AGENTS, MUST BE INSPECTED MONTHLY; AND ALL OTHERS MUST BE INSPECTED QUARTERLY. BARS OR ADDITIVES OF THOSE INSPECTED WILL BE RECORDED.

5. SEDIMENT REMOVED FROM BAPS SHALL BE DISPOSED OF IN LANDSCAPED AREAS OUTSIDE OF STEEP SLOPES, WETLANDS, FLOOD PLAINS OR DRAINAGE SWALES AND IMMEDIATELY STABILIZED OR PLACED IN TOPSOIL STOCKPILES.

1	BICD COMMENTS - 5/20/14	
2	USACOE COMMENTS - 2/24/15	
	DESCRIPTION	DESCRIPTION

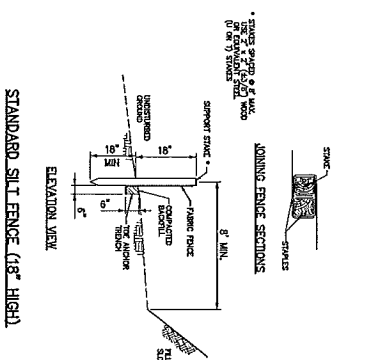
Professor of a Signature	Date	Professor of a Signature	Date
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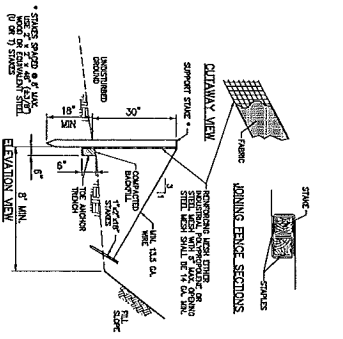
COMMONWEALTH OF PENNSYLVANIA  
DEPARTMENT OF GENERAL SERVICES  
HARRISBURG, PENNSYLVANIA

PROJECT NO. D.G.S. 515-29 PHASE 1  
REPAIR/BREECH MILL DAM BREAST AND  
CONNECTING WATERWAY CONDUITS  
WERNERSVILLE STATE HOSPITAL  
1000 N. 10TH STREET  
BERKS COUNTY, PENNSYLVANIA  
EROSION AND SEDIMENTATION  
CONTROL NOTES

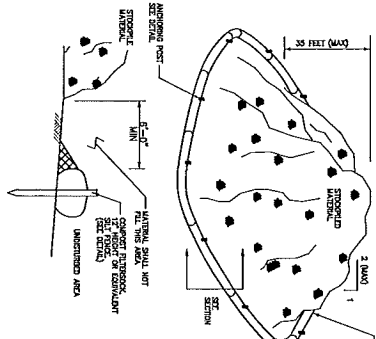
DRYING BY	DATE	DRAWING NO.
PAID	02/24/15	
CHECKED BY	SCALE	
DEC	AS NOTED	C-21



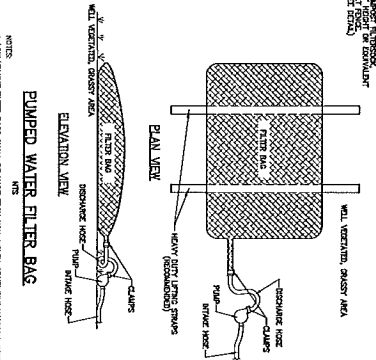
STANDARD SILT FENCE (18" HIGH)



REINFORCED SILT FENCE (30" HIGH)



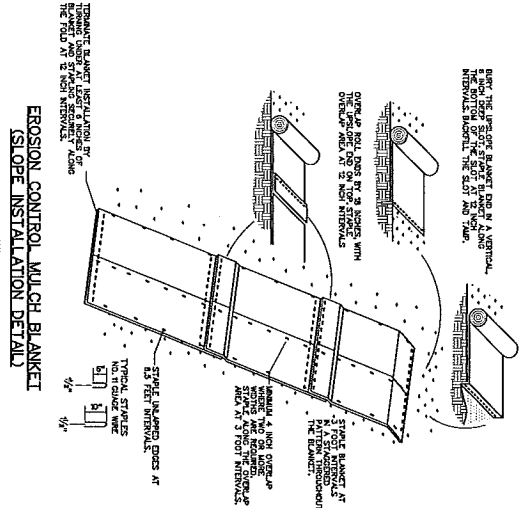
STOCKPILE CONTROL DETAIL



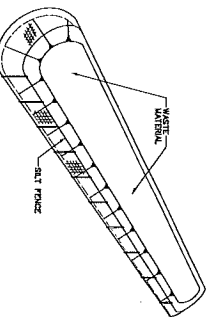
PUMPED WATER FILTER BAG

PROPERTY	TEST METHOD	MONITORING STANDARD
AIRC WIRE MOUTH STRENGTH	ASTM-D-4884	80 LB/IN
COAR TENSILE	ASTM-D-4632	2203 LB
PUNCTURE	ASTM-D-4633	110 LB
WALL-ON DUST	ASTM-D-5786	350 PSI
UV RESISTANCE	ASTM-D-4355	700K
MOOSE RETAINED	ASTM-D-4751	80 BITE

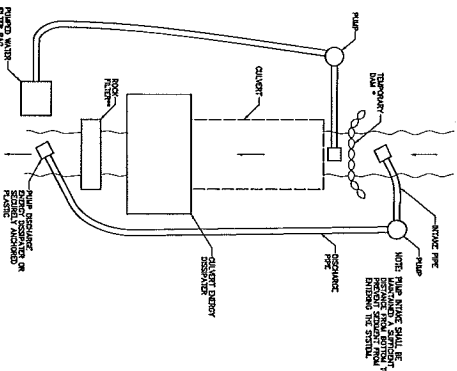
- [illegible]




**EROSION CONTROL MULCH BLANKET**  
**(SLOPE INSTALLATION DETAIL)**



**PROJECT WASTE DISPOSAL AREA**



TEMPORARY COFFERDAM AND PUMP BYPASS  
AROUND IN-CHANNEL WORK AREAS.  
NTS


**benesch**  
 BENESCH, FENSTER & FENSTER  
 ATTORNEYS-AT-LAW  
 1000 MARKET STREET, SUITE 1200  
 PHILADELPHIA, PENNSYLVANIA 19102

COMMONWEALTH OF PENNSYLVANIA  
 DEPARTMENT OF GENERAL SERVICES  
 HARRISBURG, PENNSYLVANIA

PROJECT NO. D.G.S. 515-29 PHASE 1



REPAIR/BREACH MITL DAM BREAST AND  
 CONNECTIONS AT ELYSIA HIGHLANDS  
 CONNECTIONS AT ELYSIA HOSPITAL  
 SOUTHERN HARBOR, THUNDERBOLT  
 BRIDGE COUNTY, PENNSYLVANIA

**EROSION AND SEDIMENTATION  
 CONTROL DETAILS**

DRAWING NO. \_\_\_\_\_  
 DATE: 02/24/15  
 DRAWN BY: \_\_\_\_\_  
 CHECKED BY: \_\_\_\_\_  
 DATE: 05/05/15  
 DESIGNED BY: \_\_\_\_\_  
 DATE: 05/05/15

C-22

PERFORMANCE SIGNATURE \_\_\_\_\_ DATE \_\_\_\_\_ PERMANENT SIGNATURE \_\_\_\_\_ TITLE \_\_\_\_\_

AS-BUILT REVISIONS

NO.	DESCRIPTION	DATE
1	REDO CORRECTIONS - 5/22/15	
2	USDA CORRECTIONS - 7/24/15	

