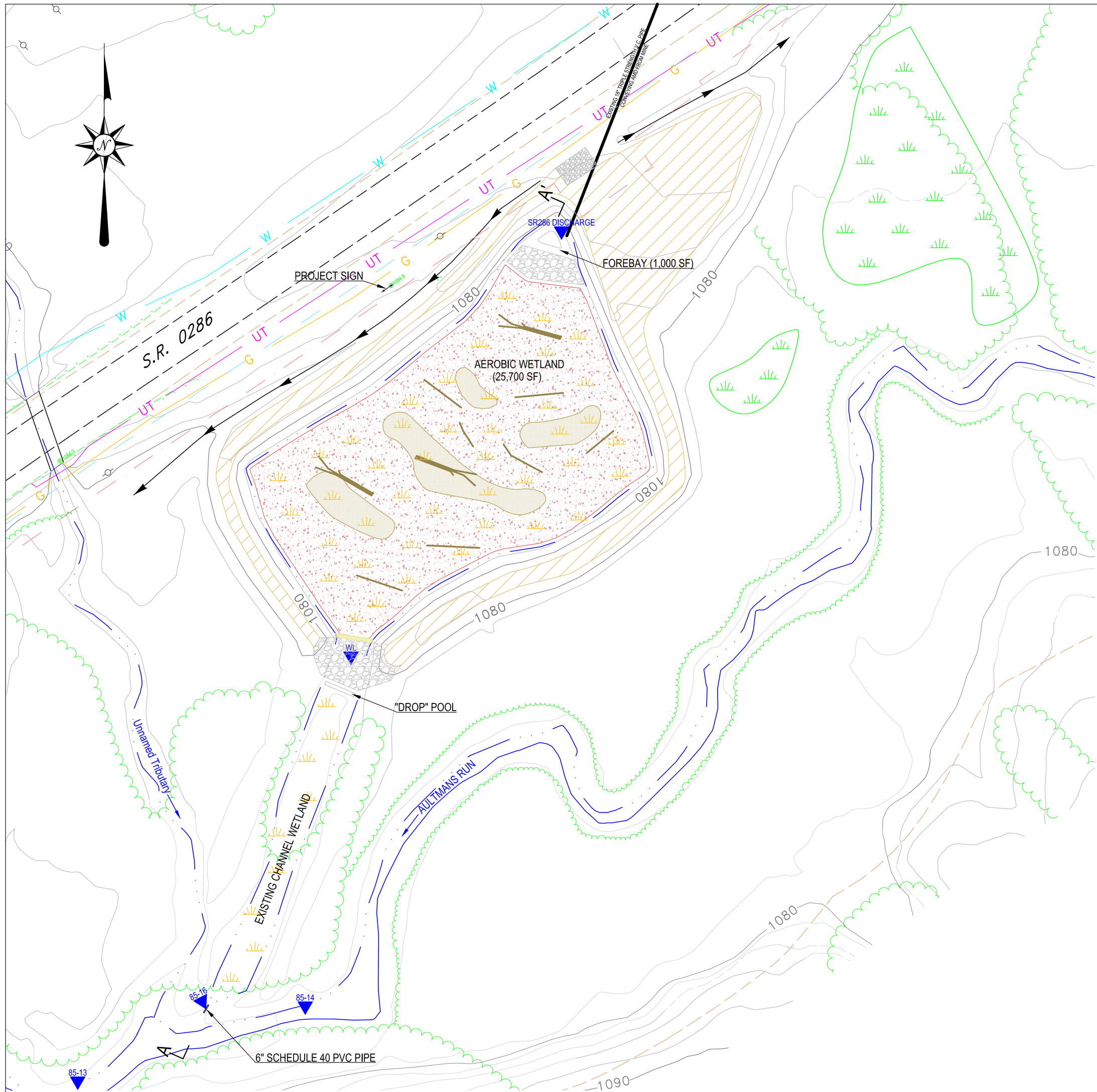
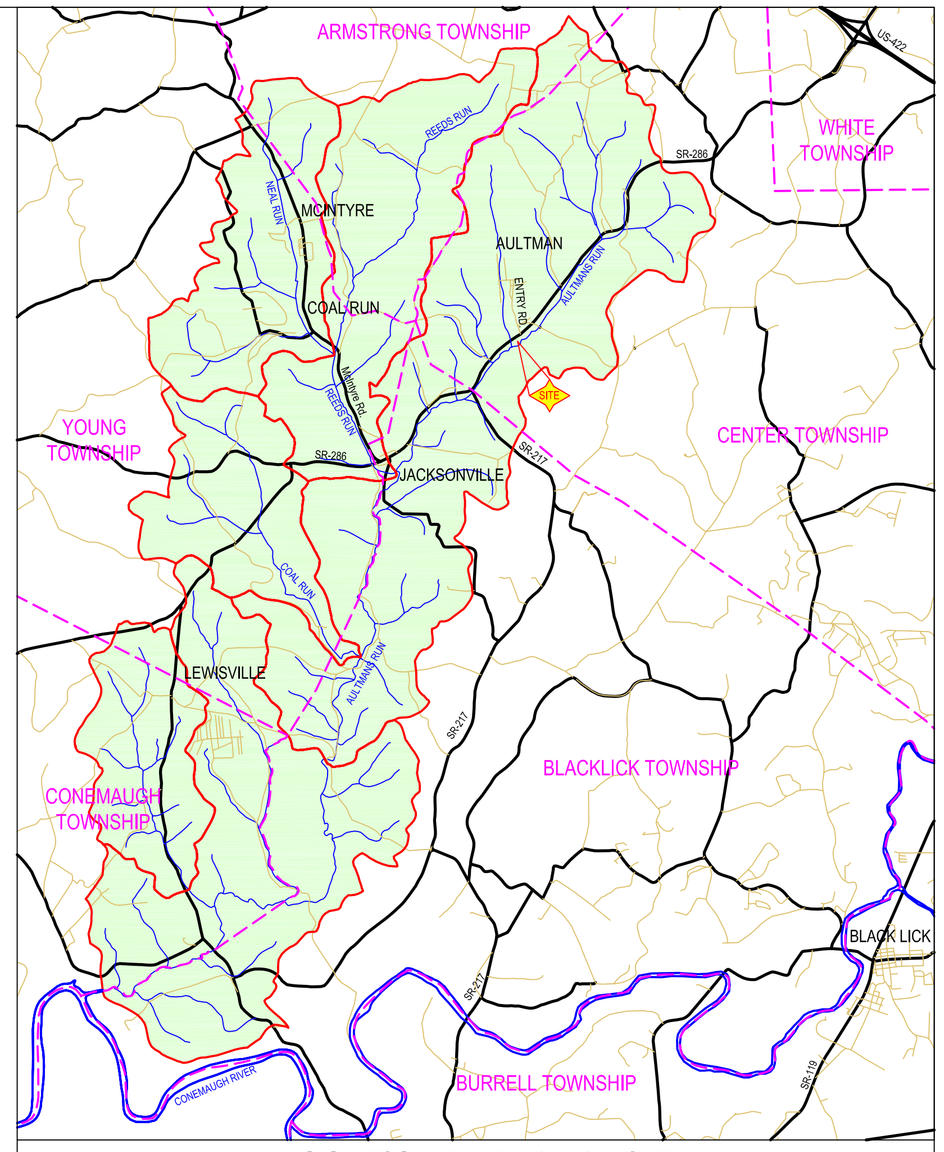


LEGEND

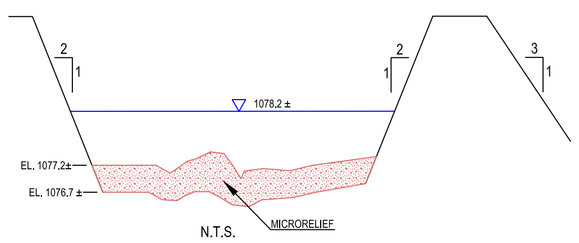
- PASSIVE SYSTEM COMPONENT
- CONTOUR - INDEX
- CONTOUR - INTERMEDIATE
- STREAM
- UNDERGROUND GAS LINE
- UNDERGROUND TELEPHONE LINE
- INDIANA CO. MUNCIPAL SERVICES AUTHORITY WATER LINE
- DIVERSION DITCH
- UTILITY POLE
- PENNDOT RIGHT-OF-WAY
- PENNDOT SLOPE EASEMENT
- GUARDRAIL
- PAVED/IMPROVED ROAD
- UNIMPROVED ROAD/EDGE OF SHOULDER
- TRAIL
- VEGETATION
- EXISTING NON-DEGRADED WETLAND
- CONSTRUCTED AEROBIC WETLAND
- WOODY DEBRIS (APPX. LOCATION)
- DEEP POOL (APPX. LOCATION - SEE NOTE)
- HAY BALES
- WETLAND SUBSTRATE
- LIMESTONE (AASHTO #1)
- RIP RAP (R4 SIZE)
- 85-16 WATER SAMPLE POINT
- 286 DISCHARGE
- TEMPORARY BENCHMARK W/ ELEVATIONS
- TOP EMBANKMENT



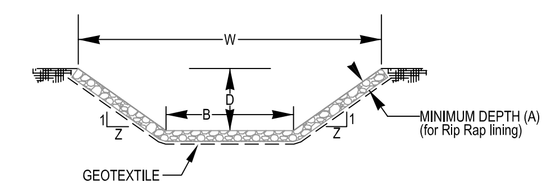
LOCATION MAP 1"=1 MILE

1 0.5 0 1 2

CONSTRUCTED AEROBIC WETLAND DETAIL



RIP RAP CHANNEL DETAIL



RIP-RAPPED CHANNELS

CHANNEL TYPE	W	B	D	Z	A	LINING
SPILLWAY	38'	20'	4'	2'	1'	R-4

N.T.S.

Notes:

Base map prepared by EDM survey by William Altimus and Donald Burkett (Aultman, PA) and incorporated into aerial survey completed by Samco (Latrobe, PA) from aerial photographs taken 12/96. Additional information from site inspections provided by BioMost, Inc.

Underground utilities located by EDM survey by William Altimus and Donald Burkett (Aultman, PA).

Right-of-way, slope easement, and location of cross pipe from abandoned mine based on PENNDOT design plans circa 1930's (District 10, Indiana Co., Route 228, Sec R-6, Sheet 4 of 5) (locations are approximate).

Location map based on USGS 7.5' McIntyre, PA (PR1981), National Agricultural Imagery Program color infrared (CIR) aerial photography, and from vector data downloaded from Pennsylvnaia Spatial Data Access (PASDA).

Bottom elevation of wetlands vary due to microrelief to enhance treatment performance and wildlife value.

Hay bales were placed 6/24/05 to encourage uniform flow distribution throughout the wetland. Water elevation of wetland dependent upon condition of hay bales.

Woody debris placed in wetland by volunteers. The number and orientation of debris is representative.

Deep pools shown on plan are approximate and vary in depth from 1' to 3'.

Surface areas calculated at approximate water elevation. Actual water elevations may change based on spillway conditions, vegetation, and other factors.

Existing Channel Wetland boundary based on delineation conducted by Aquascape, Neville Island, PA. Treated discharge migrates within the boundaries of the delineation.

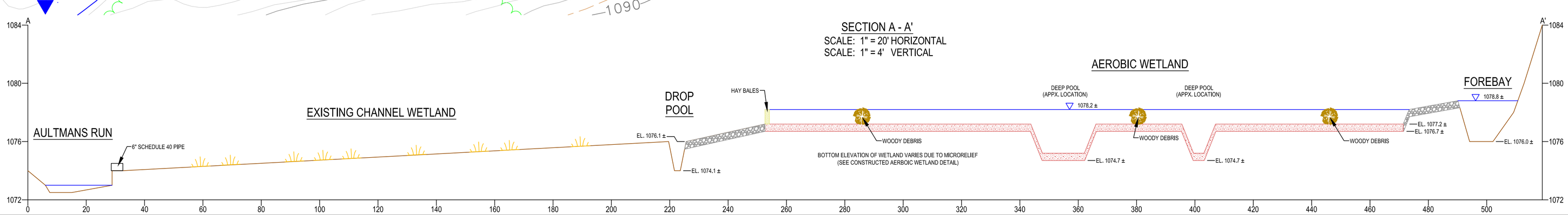
Riparian buffer along Aultmans Run cleared as a result of Federal Emergency Management Agency (FEMA) project to help prevent future flooding (first noticed on 5/18/05 site investigation).

Property owner of project area: John Stilley

PA One Call contacted during design phase: Serial #3170853

Utilities:
Gas-T.W. Phillips Gas and Oil Co.
Telephone-Verizon
Water-Indiana County Municipal Services Authority

30 15 0 30 60



PLAN VIEW AND DETAILS

"AS-BUILT DRAWING"

SR 286 PASSIVE TREATMENT SYSTEM
STREAM RESTORATION INCORPORATED
in cooperation with
AWARE
situate in
Center Township, Indiana County, PA
Scale: 1" = 30' Date: 6/2005

BioMost, Inc., Cranberry Township, Pennsylvania
Mining and Reclamation Services

85AB.dwg