B.M.#15 Elev. 893.40
Spike in Root of 14" Oak
148' N.W. of Sta. 812+00

B.M.#13 Elev. 902.09
Spike in Base of 10" Pine
145' N.W. of Sta. 821+67.13

Constr. ℄
P.I. Sta. 22+11.37
Δ=25°24'14" Lt.
D=27°30'00"
T=46.96'
L=92.38'
R=208.35'
E=5.23'
P.C. Sta. 21+64.41
P.T. Sta. 22+56.79

Survey ℄
P.I. Sta. 821+67.13
Δ=20°13'07" Lt.

Approx. Limit of Grading & Revegetation
Begin Channel Lining
Sta. 12+00.00
Middle Creek
50 L.F. Derrick Stone
Erosion Protection
(Rock 3'-0" Min. Dimension)
Strip Pit
Highwall
Trees & Brush
Top of Channel Lining
Constr. ℄
Backfill Depression at Weir
MATCH LINE
MIDDLE CREEK (Dry)
Trees & Brush
Clear Debris from Exist. Channel
Mine Road
Mine Road Along Slush Dam
Slush Dam
Exist. Weir (To be Removed)
64.72'
54.15'
64.33'
41.33'
90°00'
+34.46
+75.00
+28.98
+98.51
812
813
814
815
816
817 Survey ℄
818
819
820
821
822
823

Constr. ℄
P.I. Sta. 12+60.00
Δ=30°25'16" Rt.
D=40°00'00"
T=38.95'
L=76.05'
R=143.24'
E=5.20'
P.C. Sta. 12+21.05
P.T. Sta. 12+97.10

Survey ℄
P.I. Sta. 812+00.00
Δ=25°01'18" Rt.

Constr. ℄
P.I. Sta. 15+98.89
Δ=1°28'15" Rt.
D=1°15'00"
T=58.84'
L=117.67'
R=4583.66'
E=0.38'
P.C. Sta. 15+40.05
P.T. Sta. 16+57.72

Survey ℄
P.I. Sta. 816+00.00
Δ=5°06'55" Rt.

Constr. ℄
P.I. Sta. 19+57.72
Δ=5°01'14" Rt.
D=3°45'00"
T=66.98'
L=133.88'
R=1527.89'
E=1.47'
P.C. Sta. 18+90.74
P.T. Sta. 20+24.62

B.M.#11 Elev. 888.62
Spike in Root of 10" Black Oak
141' West of Sta. 832+31.26

Approx. Limit of Grading & Revegetation

Survey ℄
P.I. Sta. 825+13.06
Δ=19°19'27" Lt.

Constr. ℄
P.I. Sta. 25+51.50
Δ=17°51'32" Lt.
D=12°30'00"
T=72.02'
L=142.87'
R=458.37'
E=5.62'
P.C. Sta. 24+79.48
P.T. Sta. 26+22.35

Constr. ℄
P.I. Sta. 32+76.43
Δ=32°18'06" Lt.
D=40°00'00"
T=41.48'
L=80.75'
R=143.24'
E=5.89'
P.C. Sta. 32+34.95
P.T. Sta. 33+15.70

Constr. ℄
P.I. Sta. 34+76.35
Δ=34°59'41" Lt.
D=40°00'00"
T=45.16'
L=87.49'
R=143.24'
E=6.95'
P.C. Sta. 34+31.19
P.T. Sta. 35+18.68

Survey ℄
P.I. Sta. 832+31.26
Δ=25°00'33" Lt.

Construct Berm, Lt.
Sta. 32+00 to Sta. 35+50
Top of Channel Lining, Lt.
Secondary Channel (To be Backfilled to Twp. Rd. 571)
Excavate Exist. Channel to Twp. Rd. 571 (600'±)
5 L.F. Riprap Erosion Protection 1'-6" Depth
End Channel Lining
Sta. 35+50.00
Middle Creek
Begin Channel Excavation
Strip Pit
Flood Debris (To be Removed)
Mine Road
Approx. Limit of Grading & Revegetation
Slush Dam
Constr. ℄
Survey ℄ Extended
Top of Lining, Rt.
Mine Refuse
MATCH LINE
90°00'
+55.86
+96.46
824
825
826
827
828
829
830
831
832
833
834
835

Survey ℄
P.I. Sta. 833+83.12
Δ=24°44'00" Rt

For Typical Sections See Sheet No. 40
For 1"=100' Site Plan See Sheet No. 15
For Channel Profile See Sheet No. 20

NO	DATE	REVISION	APPR.

SUBMITTED Norman E. Mutchler
PROFESSIONAL

APPROVED Albert A. Ranieri
CHIEF - DIVISION OF MINE DRAINAGE REHABILITATION

APPROVED
DIRECTOR - BUREAU OF CONSULTING SERVICES

COMMONWEALTH OF PENNSYLVANIA
REGISTERED PROFESSIONAL
NORMAN E. MUTCHLER
ENGINEER No. 3553-E
PENNSYLVANIA

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL RESOURCES
OFFICE OF ENGINEERING AND CONSTRUCTION

PROJECT NO. SL-126-2-7

MINE DRAINAGE
POLLUTION ABATEMENT
SWATARA CREEK WATERSHED
SCHUYLKILL COUNTY

BERGER ASSOCIATES, INC.
Consulting Engineers
P.O. Box 1943 Harrisburg, Penna.

MIDDLE CREEK CHANNEL LINING

DRAWN BY	DATE	DRAWING NO.
W. G.	APR. 17, 1973	16 of 43
CHECKED BY	SCALE	
M. W.	1" = 50'	

maint Insp 7-81