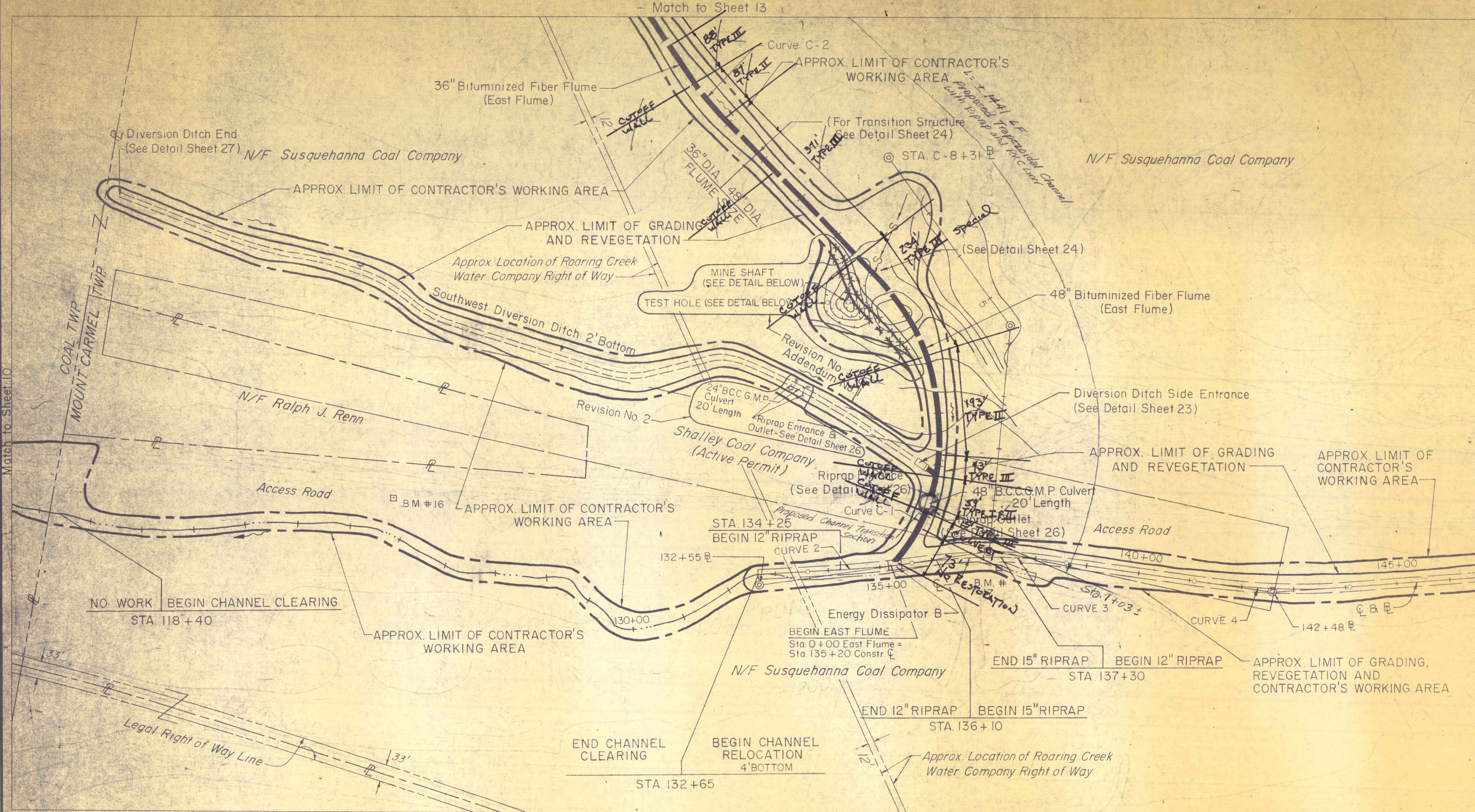


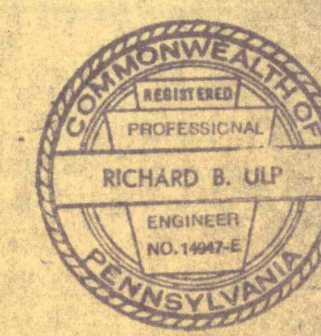
B.M. #16 Elevation 1189.70  
Spike & Washers in top of 6" Oak Stump

B.M. #17 Elevation 1213.53  
Spike & Washers in top of 10" Oak Stump



Match to Sheet 16

| NO   | DATE    | REVISION   | APPROVED |
|--|---------|--|----------|
| 1  | 5-29-75 | Added Details & Indicating Locations of Mine Shaft Hole - Changed Grading & Revegetation Limits & Limit of Contractor's Working Area |          |
| 2  | 10-6-75 | Added 24" B.C.C.G.M.P. Culvert in Southwest Diversion Ditch  |          |
| NO   | DATE    | REVISION   | APPROVED |
| SUBMITTED  |         |  |          |
| <br>RICHARD B. ULP<br>PROFESSIONAL ENGINEER                  |         |  |          |
| <br>GERALD A. RANIERI<br>CHIEF, DIVISION OF MINE RECLAMATION |         |  |          |
| <br>JOHN R. ...<br>DIRECTOR - BUREAU OF DESIGN               |         |  |          |



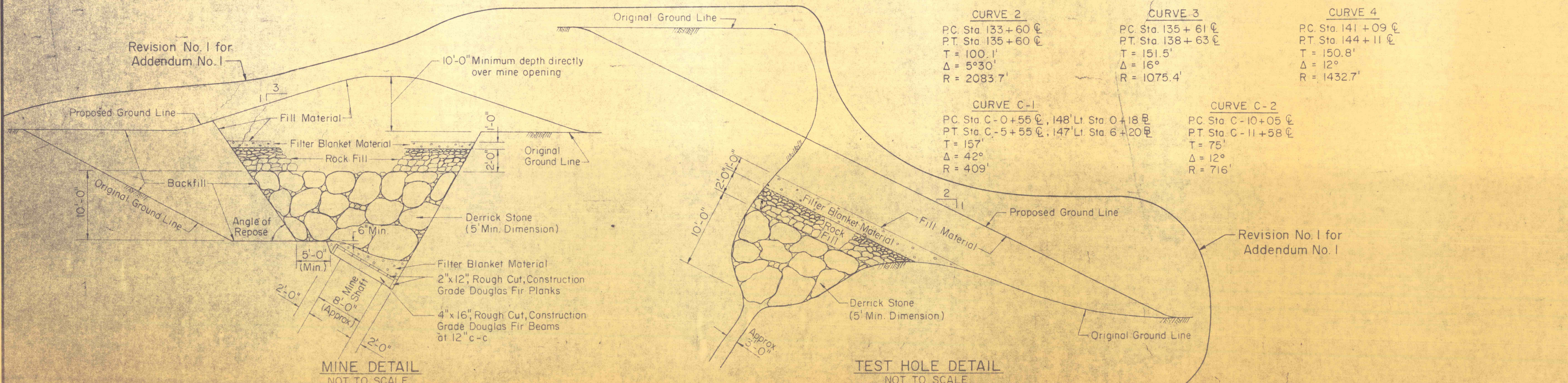
COMMONWEALTH OF PENNSYLVANIA  
DEPARTMENT OF ENVIRONMENTAL RESOURCES  
OFFICE OF RESOURCES MANAGEMENT

PROJECT NO. SL 113-5-1  
MINE DRAINAGE POLLUTION ABATEMENT  
COAL RUN  
SHAMOKIN CREEK WATERSHED  
NORTHUMBERLAND COUNTY, PA.

ERDMAN, ANTHONY, ASSOCIATES  
Consulting Engineers  
Camp Hill, Pa. Rochester, N.Y.

PLAN

|            |           |             |
|------------|-----------|-------------|
| DRAWN BY   | DATE      | DRAWING NO. |
| GMS        | 5-9-75    | 11 of 28    |
| CHECKED BY | SCALE     |             |
| DHC        | 1" = 100' |             |



| CURVE 2          | CURVE 3          | CURVE 4          |
|------------------|------------------|------------------|
| PC Sta. 133 + 60 | PC Sta. 135 + 61 | PC Sta. 141 + 09 |
| PT Sta. 135 + 60 | PT Sta. 138 + 63 | PT Sta. 144 + 11 |
| T = 100.1'       | T = 151.5'       | T = 150.8'       |
| Δ = 5°30'        | Δ = 16°          | Δ = 12°          |
| R = 2083.7'      | R = 1075.4'      | R = 1432.7'      |

| CURVE C-1        | CURVE C-2         |
|------------------|-------------------|
| PC Sta. C-0 + 55 | PC Sta. C-10 + 05 |
| PT Sta. C-5 + 55 | PT Sta. C-11 + 58 |
| T = 157'         | T = 75'           |
| Δ = 42°          | Δ = 12°           |
| R = 409'         | R = 716'          |