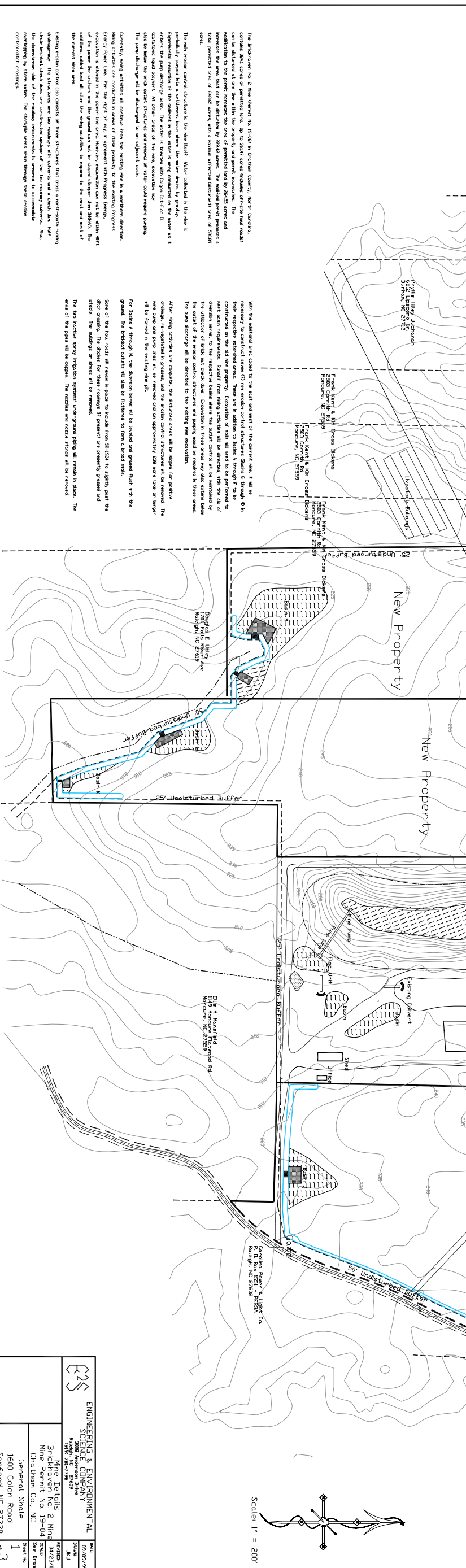
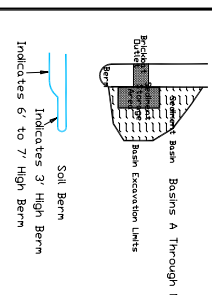


- ### Legend
- Ditch
  - Topographic Lines with Designated Elevation
  - 10-yr. Limits of Disturbance
  - NC DOT Right of Way
  - Existing New Limits
  - Existing Property Lines & Permit Limits
  - Road
  - New Property to Be Added to Permit
  - Existing Culvert
  - Buildings
  - Progress Energy Easement



The Bachman No. 2 Mine (Permit No. 19-04) in Chatham County, North Carolina, contains 3847 acres of permitted land. Up to 3847 acres includes off-site haul roads can be situated at one time within the property and permit boundaries. The modification to the permit increases the area of permitted land by 88,453 acres and increases the area that can be disturbed by 25,942 acres. The modified permit proposes a total permitted area of 6843 acres, with a maximum affected disturbed area of 28269 acres.

The main erosion control structure is the new High Berm. Water collected in the new is periodically pumped into a settlement basin where the water settles by gravity. Excess water from the settlement basin is being conducted to the water as it enters the power abating basin. The water is treated with Calcium Chloride. The additional water will be discharged to an adjacent basin.

Currently, mining activities will continue from the existing one in a northern direction. Mining activities are conducted in areas of close proximity to the existing Progress Energy River Lake. Per the right of way, in agreement with Progress Energy, the right of way of the mine and the ground can not be closed narrower than 300'. The additional labeled land will allow the mining activities to expand to the east and west of the current mine area.

Existing erosion control also consists of three structures that cross a north-south running drainage. The structures are two concrete wing culverts and a rock dam. The structures are being replaced with concrete wing culverts and a rock dam. Also, the additional labeled land will allow the mining activities to expand to the east and west of the current mine area. The structure areas drain through these erosion control structures.

With the additional area added to the east and west of the current mine, it will be necessary to construct seven (7) new erosion control structures (Basins 5 through 10) in the respective watershed areas. These are in addition to Basin A through F to be constructed on the old mine property. Excavation of soils will need to be performed to meet basin requirements. Runoff from mining activities will be directed with the aid of new structures to the respective basins where the control culverts will be constructed. The outlet of the erosion control structures and ditches should be reviewed in these areas. The pump discharge will be directed to the existing mine excavation.

After mining activities are complete, the disturbed areas will be sloped for positive drainage, re-vegetated in grasses, and the erosion control structures will be removed. The structures will be removed and the area will be returned to its original state. The structures will be removed and the area will be returned to its original state. The structures will be removed and the area will be returned to its original state.

For Basins A through K, the diversion berms will be leveled and graded flush with the ground. The berms will be leveled and graded flush with the ground. The berms will be leveled and graded flush with the ground. The berms will be leveled and graded flush with the ground.

The two inactive spray irrigation systems' underground piping will be placed. The piping will be placed and the area will be returned to its original state. The piping will be placed and the area will be returned to its original state. The piping will be placed and the area will be returned to its original state.

Scale: 1" = 200'

	<b>ENGINEERING &amp; ENVIRONMENTAL SCIENCE COMPANY</b> 8008 American Drive Raleigh, NC 27617 919.781.7788
	<b>PROJECT DETAILS</b> Mine Details 2 Mine Mine Permit No. 19-04 Chatham Co., NC See Drawings for details
DATE 9/19/2019	DRAWN JML
CHECKED JML	SHEET NO. 1
TOTAL SHEETS 3	PROJECT NO. 1600 Colon Road Sanford, NC 27330