Typical Overburden Cut Slope and Pit Bench Details

Typical Fill Slope Details

Plan View Of Temporary Sediment Trap

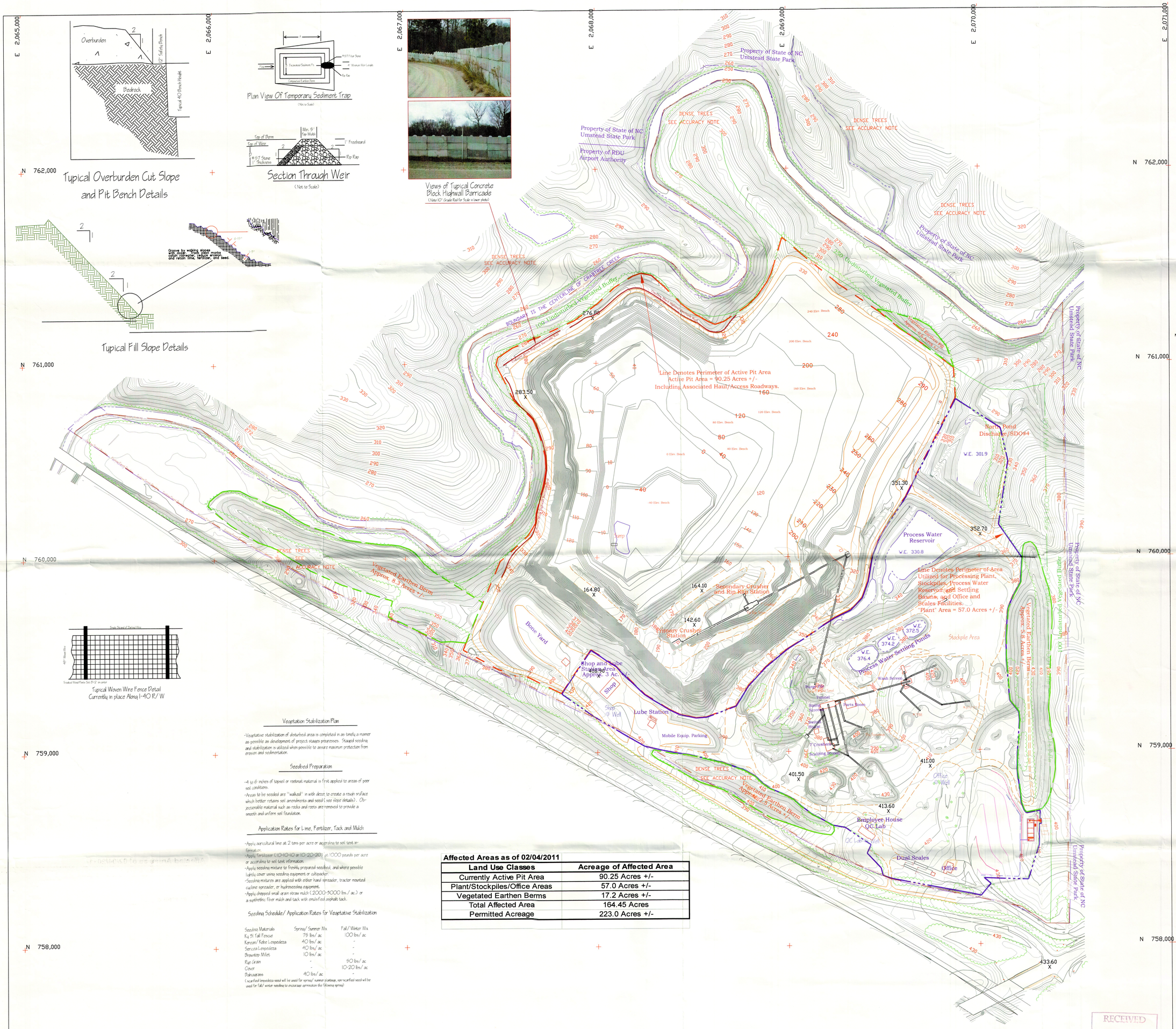
(Not to Scale)

Section Through Weir

(Not to Scale)

Views of Typical Concrete Block Highwall Barricade

(Note 10' Grade Rod for Scale in lower photo)



LEGEND

- FENCE LINE
- WATER COURSE
- TREE LINE
- SINGLE TREES
- LIMIT LINE / BOUNDARY
- PAVED ROAD W/O CURB
- UNPAVED ROAD
- WALL
- GUARD RAIL
- RAILROAD
- BUILDING
- HEADWALL/CULVERT
- CATCH BASIN
- DROP INLET
- MANHOLE
- POWER POLE
- LIGHT POLE
- STREET LAMP
- GUY WIRE
- TRANSFORMER
- SIGNS 1 & 2 POST
- HYDRANT
- UNKNOWN OBJECTS
- 530 INDEX CONTOUR
- INTERMEDIATE CONTOUR
- x 900.9 SPOT ELEVATION
- G.P.S. SURVEY MONUMENT
- STANDING WATER
- GROUND CONTROL

NOTES: 1) Accuracy Specifications
a. Contours – Ninety (90) percent of the elevations determined from the solid line contours of this topographic map has an accuracy with respect to true elevation of one-half (1/2) contour interval or better and the remaining ten (10) percent of such elevations are not in error by more than one contour interval. In densely wooded areas where heavy brush or tree cover fully obscures the ground and the contours are shown as dashed lines, they have been plotted as accurately as possible from the stereoscopic model, while making full use of spot elevations obtained during ground control surveys and all spot elevations measured photogrammetrically in places where the ground is visible.

2) This map was compiled by Blue Ridge Engineering, Inc. using photogrammetric methods. Contours portrayed as dashed or broken lines represent areas of dense vegetation and should be considered approximate. This map has not been field verified. Prior to use as a basis for design / construction, it should be field verified.

3) Buildings are shown roofline only.

Typical Woven Wire Fence Detail
Currently in place Along I-40 R/ W

Vegetation Stabilization Plan

-Vegetative stabilization of disturbed area is completed in as timely a manner as possible as development of project stages progresses. Stagwise seeding and stabilization is utilized when possible to assure maximum protection from erosion and sedimentation.

Seedbed Preparation

-4 to 6 inches of topsoil or rootmat material is first applied to areas of poor soil conditions.
-Areas to be seeded are "walked" in with dozer to create a rough surface which better retains soil amendments and seed (see slope details). Objectionable material such as rocks and roots are removed to provide a smooth and uniform soil foundation.

Application Rates for Lime, Fertilizer, Tack and Mulch

-Apply agricultural lime at 2 tons per acre or according to soil test information.
-Apply fertilizer (10-10-10 or 10-20-20) at 1000 pounds per acre or according to soil test information.
-Apply seeding mixture to freshly prepared seedbed, and where possible lightly cover using seeding equipment or cultipacker.
-Seeding mixtures are applied with either hand spreader, tractor mounted cyclone spreader, or hydroseeding equipment.
-Apply chopped small grain straw mulch (2000-9000 lbs./ ac.) or a synthetic fiber mulch and tack with emulsified asphalt tack.

Seeding Schedule/ Application Rates for Vegetative Stabilization

Seeding Materials	Spring/ Summer Mix	Fall/ Winter Mix
Ky 31 Tall Fescue	75 lbs/ ac	100 lbs/ ac
Korean/ Kobe Lespedeza	40 lbs/ ac	-
Sericea Lespedeza	40 lbs/ ac	-
Browntop Millet	10 lbs/ ac	-
Rye Grain	-	90 lbs/ ac
Clover	-	10-20 lbs/ ac
Pensacola grass	40 lbs/ ac	-

(scarified lespedeza seed will be used for spring/ summer plantings, non-scarified seed will be used for fall/ winter seeding to encourage germination the following spring)

Affected Areas as of 02/04/2011

Land Use Classes	Acreage of Affected Area
Currently Active Pit Area	90.25 Acres +/-
Plant/Stockpiles/Office Areas	57.0 Acres +/-
Vegetated Earthen Berms	17.2 Acres +/-
Total Affected Area	164.45 Acres
Permitted Acreage	223.0 Acres +/-

LANDAIR SURVEYING, INC
ONE RUNWOODY PARK SUITE 200 ATLANTA, GA 30338
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N

200 0 200 400 600
SCALE: 1" = 200'

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COMPILED BY PHOTOGRAMMETRIC METHODS

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919-266-1100

Wake Stone Corporation
Triangle Quarry
Mining Permit No. 92-10

Site Plan Map

Permit Renewal - February 2011
February 4, 2011

DATE OF PHOTOGRAPHY: 02-05-99	REVISION NO:
JOB NO: T-01-49019-22	SHEET NO: Sheet 1