# 932001

EA Northeast The Maple Building 3 Washington Center Newburgh, NY 12550 Telephone: 914-565-8100 Fax: 914-565-8203



3 April 2000

Mr. Arthur Marks U.S. Army Corps of Engineers–Buffalo District 1776 Niagara Street Buffalo, New York 14207



RE: Closure of AIRCO, Inc. Witmer Road Landfill – Wetland Impacts

EA Project No. 12040.33

Dear Mr. Marks:

EA Engineering P.C., and its affiliate EA Engineering, Science, and Technology, as consultants to BOC Gases, are developing design plans for closure of the AIRCO, Inc. Witmer Road landfill. The site was used for disposal of slag from various industrial processes and will be closed under a Consent Order with the New York State Department of Environmental Conservation. It appears that a preconstruction notification may be required under Nationwide Permit 38 (NWP 38—Cleanup of Toxic and Hazardous Waste). We are submitting the attached information for your review to determine if this is the appropriate process for this site.

This property is approximately 25 acres located off Witmer Road in Niagara, New York, at the intersection of the Lewiston and Niagara U.S. Geological Survey topographic quad maps (Attachment A). Under the existing site conditions, a drainage swale (approximately 1,685 ft) collects runoff and seepage along the southeast, south, and southwest perimeter of the landfill and transports this flow offsite emergent (*Phragmites* and cattail dominated) wetland south of the property. A preliminary site assessment conducted in November 1999 indicated that this swale constitutes approximately 0.5 acres of linear wetland; at that time, the primary vegetation in the swale was sparse remnants of *Phragmites* (Attachment B).

The 60 percent design calls for pulling some waste material from beyond the property fenceline, regrading, capping, and seeding the site. The regrading process will entail removal of the existing drainage swale and use of best management practices for erosion and sedimentation control. In conjunction with regrading and capping the waste material, a new swale will be constructed at the perimeter of the cap to carry runoff to the wetland south of the site. Five pertinent sheets from the 60 percent design submittal are enclosed (Attachment C) that show existing site conditions, proposed final grade and site conditions, representative cross-sections of the new drainage swale, details of the cap termination and drainage swale, and details of erosion control structures.

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NYSDEC - REG. 9 FOIL ★REL\_\_UNREL EA tentatively plans to conduct a confirmatory delineation of the affected wetland area at the beginning of the growing season in late April 2000. I would like to schedule a meeting at that time to meet onsite with you or someone from your staff to review conditions at the site, the delineated wetland boundary, and the proposed closure plans. I will contact you to make arrangements when we have a tentative date for this site visit. If you require additional information or have any questions regarding the material we have provided, please do not hesitate to contact me.

Sincerely yours,

EA ENGINEERING, P.C.

Dand Dantor

David S. Santoro, P.E., L.S.

President

EA ENGINEERING, SCIENCE, AND TECHNOLOGY

Paul H. Muessig

Senior Environmental Scientist

PHM/caw Attachments

cc: C. McLeod (EA)

M. Resh (BOC)

M. Hinton (NYSDEC)

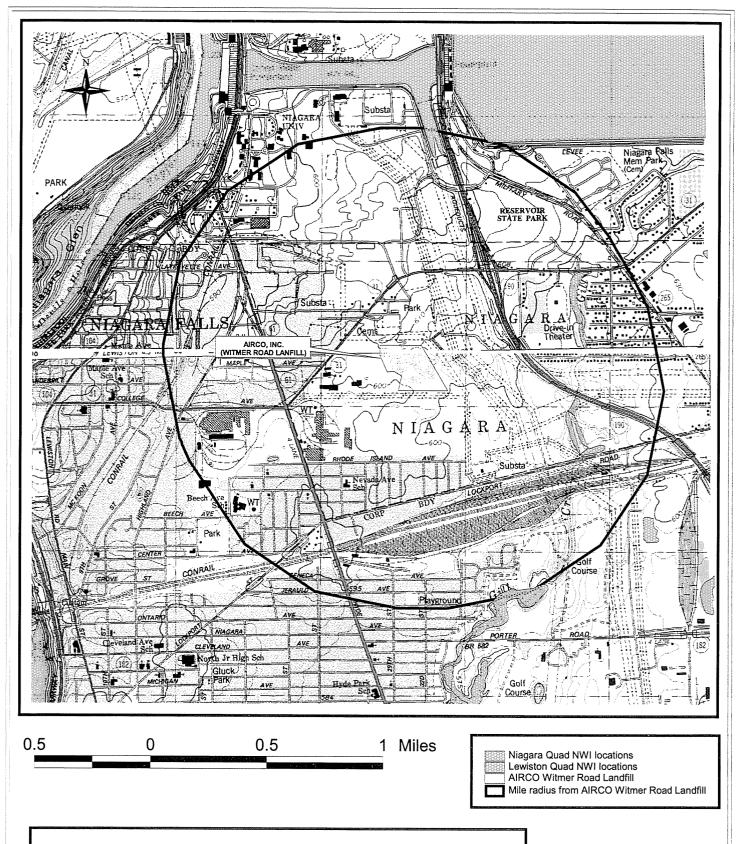
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NYSDEC - REG. 9 FOIL \_\_REL\_\_UNREL

# Attachment A

Location Map for AIRCO, Inc.
Witmer Road Landfill

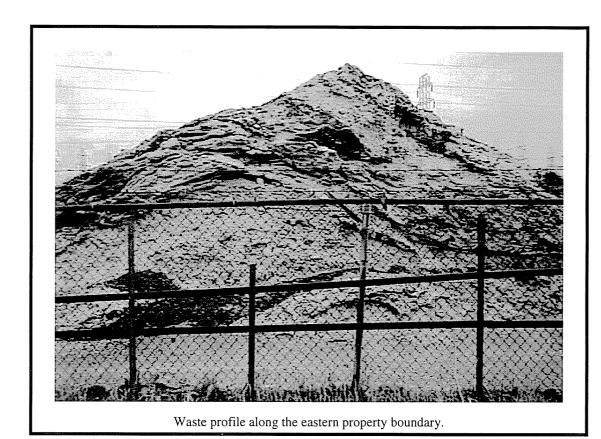


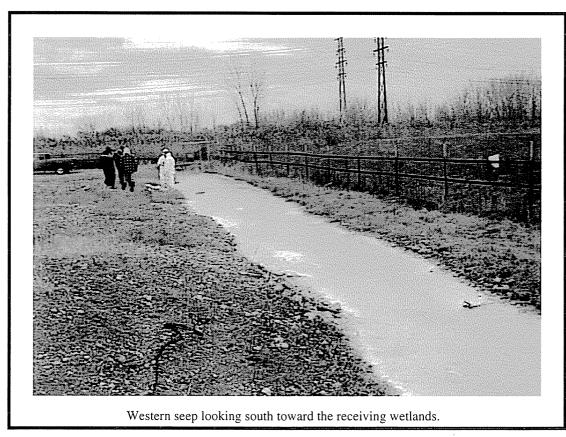
LOCATION MAP SHOWING AIRCO, INC.
WITMER ROAD LANDFILL AND
NATIONAL WETLAND INVENTORY MAPPED WETLANDS



## Attachment B

AIRCO, Inc. Witmer Road Landfill Photos of Existing Perimeter Drainage Swale/Wetlands

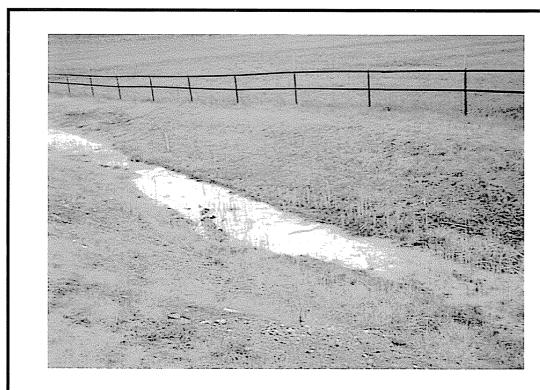






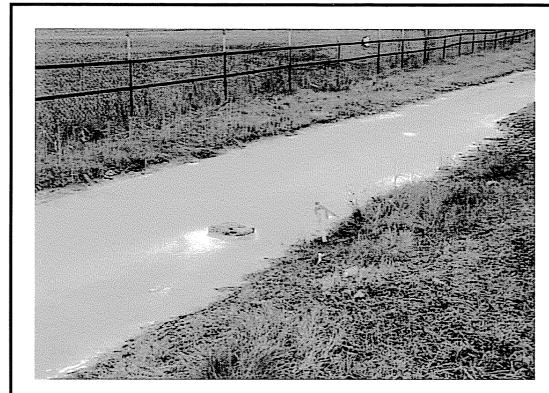


Western seep looking north toward the Niagara Mohawk parcel.

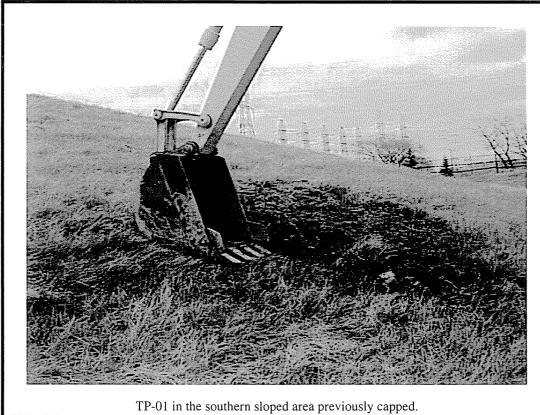


Western seep looking west toward SKW parcel.





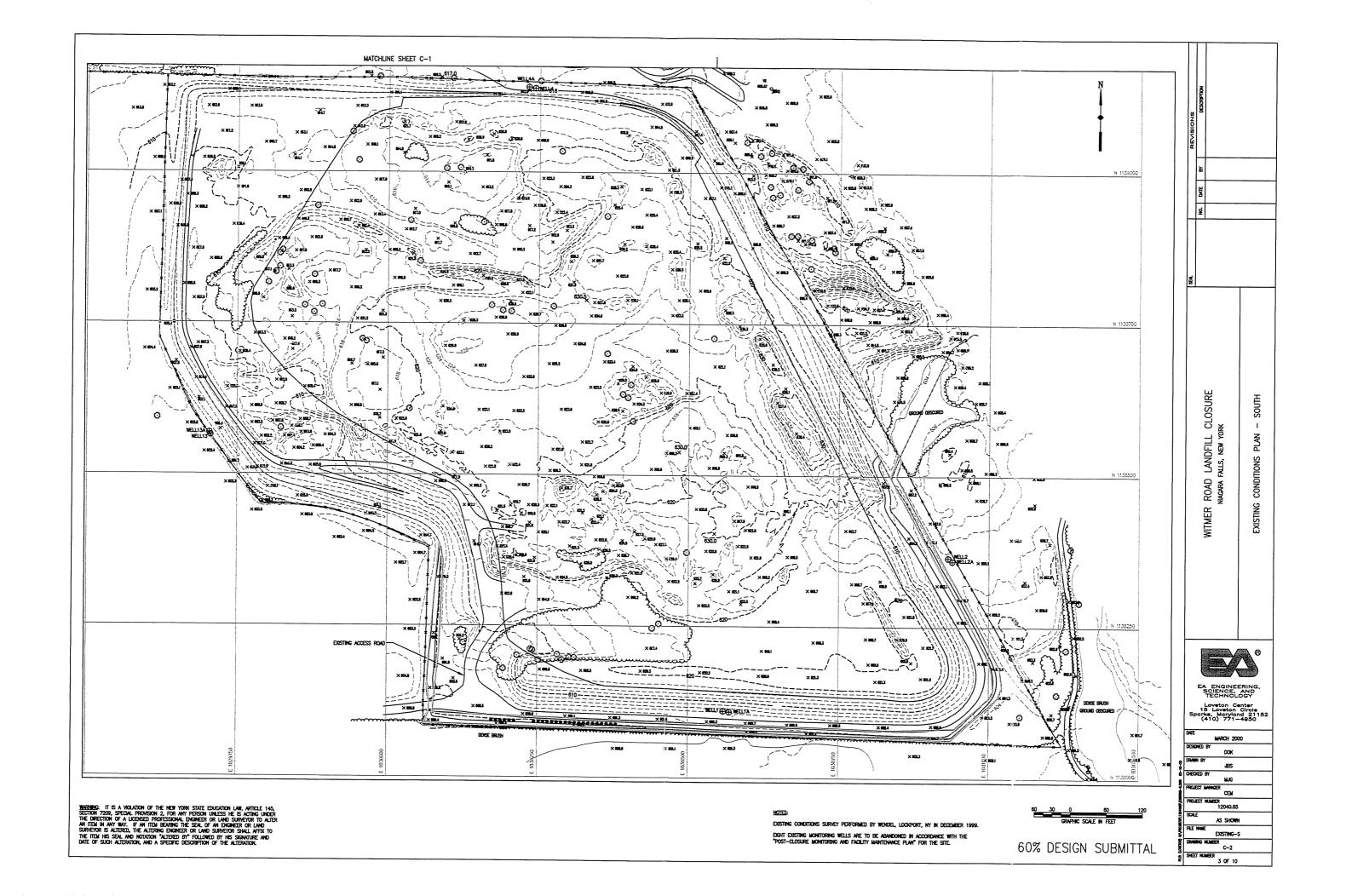
Western seep looking northwest toward the SKW parcel.

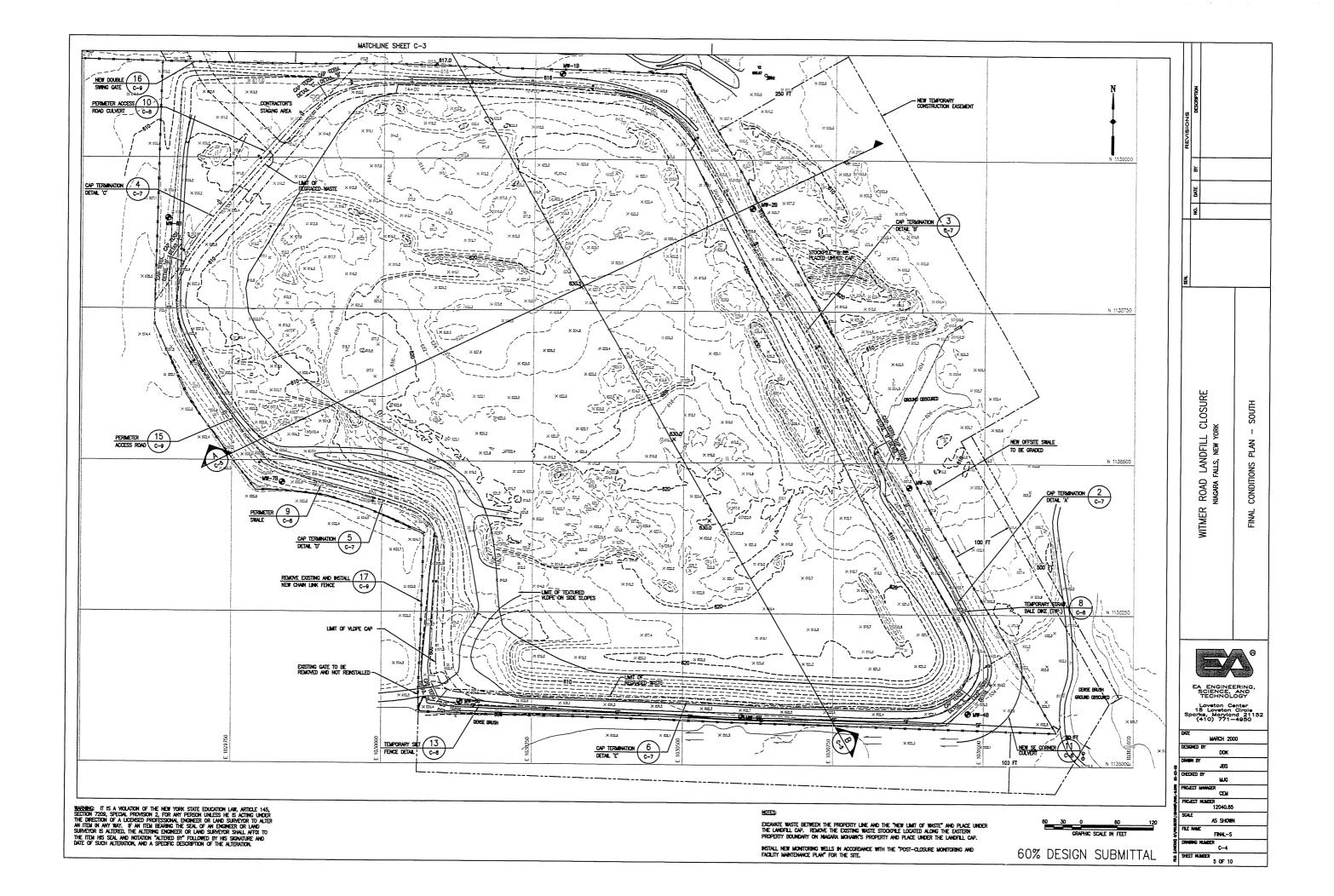


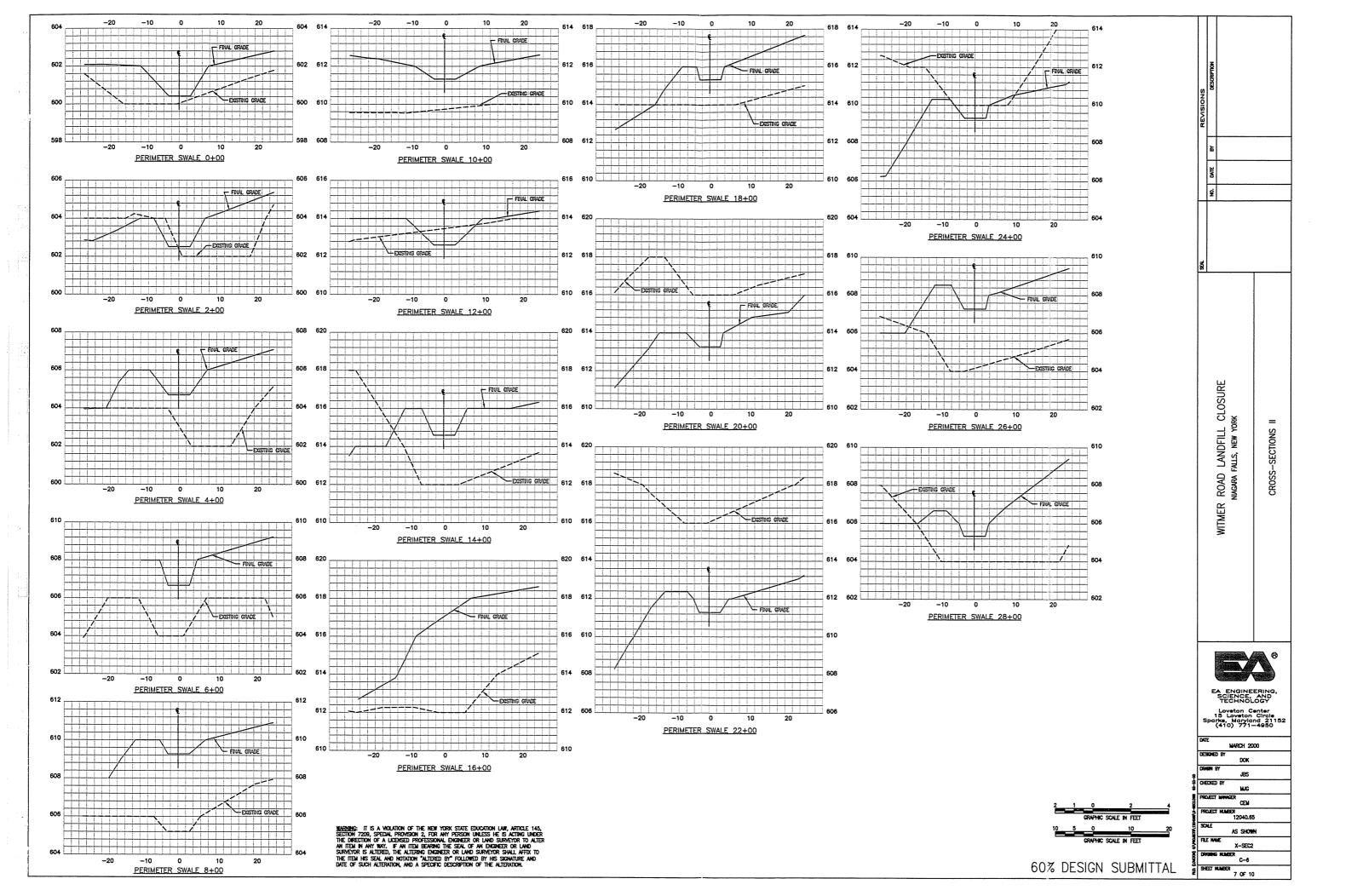


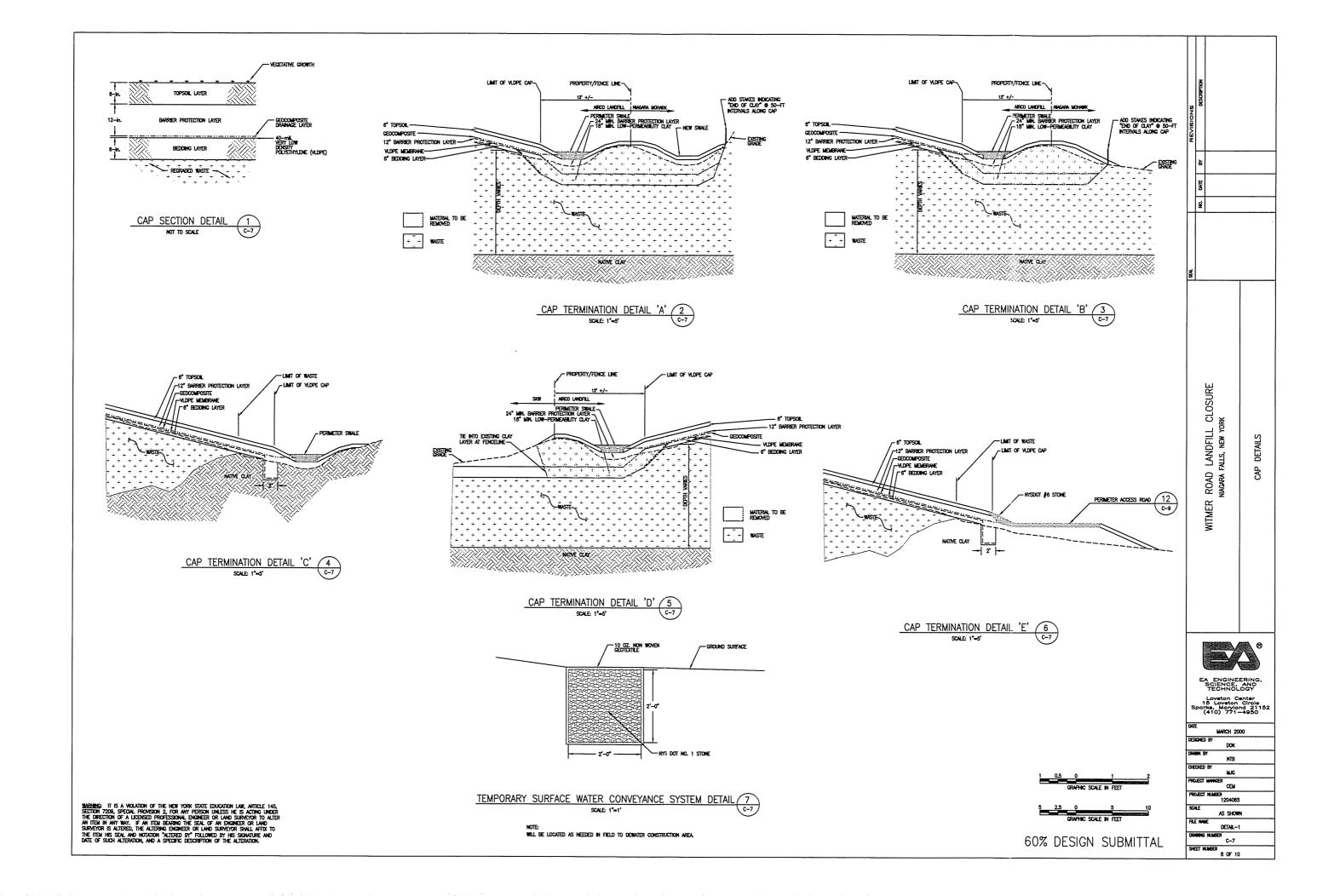
### Attachment C

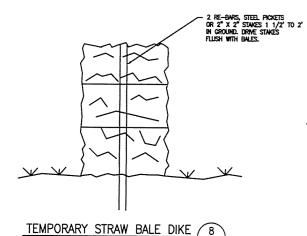
AIRCO, Inc. Witmer Road Landfill
Selected 60 Percent Design Sheets
Showing Existing Condition (Wetland
Boundary), Proposed Final Grade,
Proposed Perimeter Drainage Swale,
Perimeter Drainage Swale Details,
and Runoff Erosion Control Structure
Details





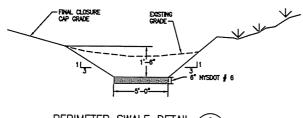




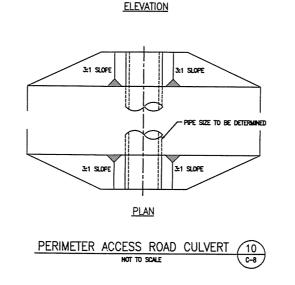


NOT TO SCALE

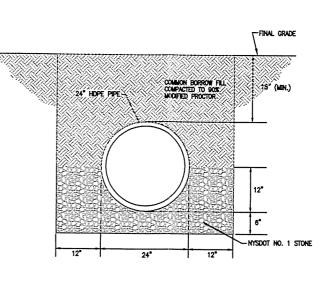
- 1. BALES SHALL BE PLACED WITH ENDS TIGHTLY ABUTTING THE ADJACENT BALES.
- Bales Shall be securely anchored in place by either two stakes or re—Bars drafen through the Bale. The first stake in Each Bale shall be drafen tomard the previously lad Bale at an angle to force the Bales together. Stakes shall be drafen flush with the Bale.
- BALES SHALL BE REMOVED WHEN THEY HAVE SERVED THEIR USEFULNESS SO AS NOT TO BLOCK OR IMPEDE STORM FLOW OR DRAINAGE.



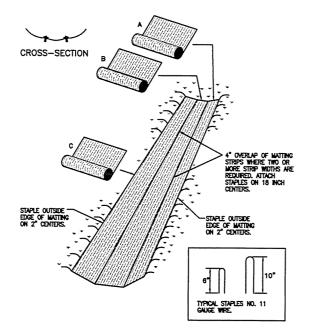
PERIMETER SWALE DETAIL 9 NOT TO SCALE



PERMETER ACCESS ROAD



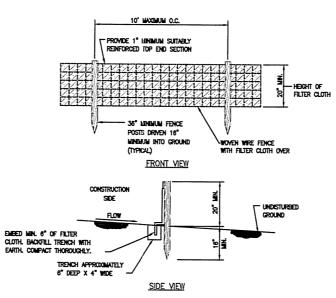
SOUTHEAST CORNER CULVERT



EROSION CONTROL NOT TO SCALE

#### CONSTRUCTION SPECIFICATIONS

- ALL BENCHES, DRAINAGE DITCHES AND SWALES SHALL BE STABILIZED WITH EROSION CONTROL MATTING (IN CURLEX OR APPROVED EQUAL).
- 2. KEY-IN MATTING BY PLACING THE TOP ENDS OF THE MATTING IN A NARROW TRENCH. 8" IN DEPTH. BACKFILL THE TRENCH AND TAMP FRAILY TO CONFORM TO THE CHANNEL CROSS-SECTION SECURE WITH A ROW OF STAPLES ABOUT 4" DOWN SLOPE FROM THE TRENCH SPACING BETWEEN STAPLES IS 6".
- STAPLE THE 4" OVERLAP IN THE CHANNEL CENTER USING AN 18" SPACING BETWEEN STAPLES.
- 4. BEFORE STAPLING THE OUTER EDGES OF THE MATTING, MAKE SUR THE MATTING IS SMOOTH AND IN FIRM CONTRACT WITH THE SOLL
- STAPLES SHALL BE PLACED 2' APART WITH 4 ROWS FOR EACH STRIP,
   OUTER ROWS, AND 2 ALTERNATING ROWS DOWN THE CENTER.
- 6. WHERE ONE ROLL OF MATTING ENDS AND ANOTHER BEGINS, THE END OF THE TOP STRP SHALL OVERLAP THE UPPER END OF THE LOWER STRP BY 4", SHIPLAP FASHION, REINFORCE THE OVERLAP WITH A DOUBLE ROW OF STAPLES SPACED 8" APART IN A STAGGERED PATTERN ON EITHER SDE.
- THE DISCHARGE END OF THE MATTERS LINER SHOULD BE SIMILARLY SECURED WITH 2 DOUBLE ROWS OF STAPLES. NOTE: IF FLOW WILL ENTER FROM THE EDGE OF THE MATTING THEN THE AREA EFFECTED BY THE FLOW MUST BE KEYED—IN.



TEMPORARY SILT FENCE DETAIL

#### NOTES:

- 1. FASTEN WOVEN WIRE FENCE TO FENCE POSTS WITH WIRE TIES OR STAPLES.
- FASTEN FILTER CLOTH SECURELY TO WOVEN WIRE FENCE WITH TIES SPACED EVERY 24" AT TOP AND 38D SECTION.
- WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER THEY SHALL BE OVERLAPPED BY SIX INCHES AND FOLDED.
- PERFORM MAINTENANCE IS NEEDED AND REMOVE ERODED SILT WHEN "BULGES" DEVELOP IN THE SILT FENCE.
- REMOVE SILT FENCE AFTER FINAL GRADING IS COMPLETED.

#### MATERIALS:

- STEEL EITHER T OR U TYPE OR 2" HARDWOOD
- FENCE: WOYEN WIRE, 14 GAUGE 6" MAX. MESH OPENING
- FILTER CLOTH: FILTER X, STABLINKA T140N, MIRAFI 100X, OR APPROVED EQUAL.
- PREFABRICATED UNIT: GEOFAB, ENVIROFENCE, OR APPROVED EQUAL.

### EROSION AND SEDIMENT CONTROL NOTES

- Initial disturbance shall be limited to that necessary to gain entrance to the site to install the sediment controls.
- ALL EXCAVATED MATERIALS SHALL BE PLACED ON A HIGH ELEVATION OF THE SITE WHEN POSSIBLE AND COMPINED TO AN AREA THERE IT WILL NOT DESTRUCT THE NORMAL COURSE OF DRIANAGE.
- CONTINUOUS INSPECTION AND MAINTENANCE OF ALL SEDIMENT CONTROL DEVICES IS MANDATORY.
- ANY SEDIMENT CONTROL DEVICES DISTURBED DURING CONSTRUCTION MUST BE RESTORED BANEFORTELY.



60% DESIGN SUBMITTAL



DETAILS

CONTROL

AND

CLOSURE

LANDFILL FALLS, NEW YOF

ROAD

MUG CEN 1204065 DETAIL-2 ` c-8 9 OF 10

WARNING. IT IS A YOUATION OF THE NEW YORK STATE EDUCATION LAW, ARTICLE 145, SECTION 7209, SPECIAL PROVISION 2, FOR MAY PERSON UNLESS HE IS ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER OR LIND SURFPORT TO ALTER AN ITEM IN MAY MAY. IF AN ITEM BEFARS THE SEAL OF AN ENGINEER OR LAND SURFPORT SHATERED, THE ALTERING ENGINEER OR LAND SURFPORT SHATERED, THE ALTERING ENGINEER OR LAND SURFPORT SHATERED, THE ALTERING ENGINEER OR LAND SURFPORT SHATER AND DATE OF SUCH ALTERATION. AND A SPECIFIC DESCRIPTION OF THE ALTERATION.