



ALABAMA
DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

SOLID WASTE DISPOSAL FACILITY PERMIT

PERMITTEE: The City of Fairhope

FACILITY NAME: Fairhope Inert Landfill

FACILITY LOCATION: SW ¼ of the SW ¼ and the NW ¼ of the SW ¼ of Section 20, Township 6 South, Range 2 East in Baldwin County, Alabama. The total permitted area is approximately 17.59 acres with approximately 16.05 acres approved for disposal.

PERMIT NUMBER: 02-07

PERMIT TYPE: Construction/Demolition

WASTE APPROVED FOR DISPOSAL: Non-putrescible and non-hazardous construction and demolition waste, discarded tires and rubbish as defined by ADEM Rule 335-13-1-.03.

APPROVED WASTE VOLUME: Maximum Daily Volume of waste 257 cubic yards or 100 tons per day

APPROVED SERVICE AREA: Corporate city limits of the City of Fairhope, Alabama

In accordance with and subject to the provisions of the Alabama Solid Wastes and Recyclable Materials Management Act, as amended, Code of Alabama 1975, SS 22-27-1 to 22-27-27 ("SWRMMA"), the Alabama Environmental Management Act, as amended, Code of Alabama 1975, SS 22-22A-1 to 22-22A-15, and rules and regulations adopted thereunder, and subject further to the conditions set forth in this permit, the Permittee is hereby authorized to dispose of the above-described solid wastes at the above-described facility location.

ISSUANCE DATE: ????????????????

EFFECTIVE DATE: ????????????????

EXPIRATION DATE: ????????????????

**ALABAMA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
SOLID WASTE PERMIT**

Permittee: City of Fairhope
P.O. Box 429
Fairhope, Alabama 36533

Landfill Name: Fairhope Inert Landfill

Landfill Location: A part of the SW ¼ of the SW ¼ and the NW ¼ of the SW ¼ of Section 20, Township 6 South, Range 2 East, and located in the City of Fairhope on Section Street in Baldwin County, Alabama

Permit Number: 02-07

Landfill Type: Construction/Demolition

Pursuant to the Alabama Solid Wastes & Recyclable Materials Management Act, Code of Alabama 1975, §§22-27-1, *et seq.*, as amended, and attendant regulations promulgated thereunder by the Alabama Department of Environmental Management (ADEM), this permit is issued to City of Fairhope (hereinafter called the Permittee), to operate a solid waste disposal facility, known as the Fairhope Inert Landfill.

The Permittee must comply with all terms and conditions of this permit. This permit consists of the conditions set forth herein (including those in any attachments), and the applicable regulations contained in 335-13-1 through 335-13-15 of the ADEM Administrative Code (hereinafter referred to as the "ADEM Admin. Code"). Rules cited are set forth in this document for the purpose of Permittee reference. Any rule that is cited incorrectly in this document does not constitute grounds for noncompliance on the part of the Permittee. Applicable ADEM Administrative Codes are those that are in effect on the date of issuance of this permit or any revisions approved after permit issuance.

This permit is based on the information submitted to the Department on March 16, 2017, for permit renewal and modification, and as amended (hereby incorporated by reference and hereinafter referred to as the Application). Any inaccuracies found in this information could lead to the termination or modification of this permit and potential enforcement action. The Permittee must inform the Department of any deviation from or changes in the information in the Application that would affect the Permittee's ability to comply with the applicable ADEM Admin. Code or permit conditions.

This permit is effective as of ????????????????, and shall remain in effect until ??????????????????, unless suspended or revoked.

Alabama Department of Environmental Management

Date Signed

SECTION I. STANDARD CONDITIONS.

A. Effect of Permit

The Permittee is allowed to dispose of nonhazardous solid waste in accordance with the conditions of this permit and ADEM Admin. Code Div. 13. Issuance of this permit does not convey property rights of any sort or any exclusive privilege, nor does it authorize any injury to persons or property, any invasion of other private rights, or any infringement of state or local laws or regulations. Except for actions brought under the Act, compliance with the conditions of this permit shall be deemed to be compliance with applicable requirements in effect as of the date of issuance of this permit and any future revisions.

B. Permit Actions

This permit may be suspended, revoked or modified for cause. The filing of a request for a permit modification or the notification of planned changes or anticipated noncompliance on the part of the Permittee, and the suspension or revocation does not stay the applicability or enforceability of any permit condition.

C. Severability

The provisions of this permit are severable, and if any provision of this permit, or the application of any provision of this permit to any circumstance, is held invalid, the application of such provision to other circumstances, and the remainder of this permit, shall not be affected thereby.

D. Definitions

For the purpose of this permit, terms used herein shall have the same meaning as those in ADEM Admin. Code Div. 13, unless this permit specifically provides otherwise; where terms are not otherwise defined, the meaning associated with such terms shall be as defined by a standard dictionary reference or the generally accepted scientific or industrial meaning of the term.

1. "EPA" for purposes of this permit means the United States Environmental Protection Agency.
2. "Permit Application" for the purposes of this permit, means all permit application forms, design plans, operational plans, closure plans, technical data, reports, specifications, plats, geological and hydrological reports, and other materials which are submitted to the Department in pursuit of a solid waste disposal permit.

E. Duties and Requirements

1. Duty to Comply

The Permittee must comply with all conditions of this permit except to the extent and for the duration such noncompliance is authorized by a variance granted by the Department. Any permit noncompliance, other than noncompliance authorized by a variance, constitutes a violation of the Act, and is grounds for enforcement action, permit suspension, revocation, modification, and/or denial of a permit renewal application.

2. Duty to Reapply

If the Permittee wishes to continue an activity regulated by this permit after the expiration date of this permit, the Permittee must apply for and obtain a new permit. The renewal application must be submitted to the Department at least 180 days before this permit expires.

3. Permit Expiration

This permit and all conditions therein will remain in effect beyond the permit's expiration date if the Permittee has submitted a timely, complete application as required by Section I.E.2., and, through no fault of the Permittee, the Department has not made a final decision regarding the renewal application.

4. Need to Halt or Reduce Activity Not A Defense

It shall not be a defense for the Permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity to maintain compliance with the conditions of this permit.

5. Duty to Mitigate

In the event of noncompliance with this permit, the Permittee shall take all reasonable steps to minimize releases to the environment, and shall carry out such measures as are reasonable to prevent significant adverse impacts on human health or the environment.

6. Proper Operation and Maintenance

The Permittee shall at all times properly operate and maintain all facilities and systems of control (and related appurtenances) that are installed or used by the Permittee to achieve compliance with the conditions of this permit.

7. Duty to Provide Information

If requested, the Permittee shall furnish to the Department, within a reasonable time, any information that the Department may reasonably need to determine whether cause exists for denying, suspending, revoking, or modifying this permit, or to determine compliance with this permit. If requested, the Permittee shall also furnish the Department with copies of records kept as a requirement of this permit.

8. Inspection and Entry

Upon presentation of credentials and other documents as may be required by law, the Permittee shall allow the employees of the Department or their authorized representative to:

- a. Enter at reasonable times the Permittee's premises where the regulated facility or activity is located or conducted, or where records must be kept under the conditions of this permit.
- b. Have access to and copy, at reasonable times, any records that must be kept under the conditions of this permit.
- c. Inspect, at reasonable times, any facilities, equipment (including monitoring and control equipment), practices, or operations regulated or required under this permit.
- d. Sample or monitor, at reasonable times, any substances or parameters at any location for the purposes of assuring permit compliance or as otherwise authorized by Code of Alabama 1975, Section 22-27-1 *et seq.*.

9. Monitoring, Corrective Actions, and Records

- a. Samples and measurements taken for the purpose of monitoring or corrective action shall be representative of the monitored activity. The methods used to obtain representative samples to be analyzed must be the appropriate method from Chapter 335-13-4 or the methods as specified in the Application attached hereto and incorporated by reference. Laboratory methods must be those specified in Standard Methods for the Examination of Water and Wastewater (American Public Health Association, latest edition), Methods for Chemical Analysis of Water and Wastes (EPA-

600/4-79-020), Test Methods for Evaluating Solid Waste, Physical/Chemical Methods (EPA Publication SW-846, latest edition), other appropriate EPA methods, or as specified in the Application. All field tests must be conducted using approved EPA test kits and procedures.

- b. The Permittee shall retain records, at the location specified in Section I.I., of all monitoring, or corrective action information, including all calibration and maintenance records, copies of all reports and records required by this permit, and records of all data used to complete the application for this permit for a period of at least three years from the date of the sample, measurement, report or record or for periods elsewhere specified in this permit. These periods may be extended by the request of the Department at any time and are automatically extended during the course of any unresolved enforcement action regarding this facility.
- c. Records of monitoring and corrective action information shall include.
 - i. The exact place, date, and time of sampling or measurement.
 - ii. The individual(s) and company who performed the sampling or measurements.
 - iii. The date(s) analyses were performed.
 - iv. The individual(s) and company who performed the analyses.
 - v. The analytical techniques or methods used.
 - vi. The results of such analyses.
- d. The Permittee shall submit all monitoring and corrective action results at the interval specified elsewhere in this permit.

10. Reporting Planned Changes

The Permittee shall notify the Department, in the form of a request for permit modification, at least 90 days prior to any change in the permitted service area, increase in the waste received, or change in the design or operating procedure as described in this permit, including any planned changes in the permitted facility or activity which may result in noncompliance with permit requirements.

11. Transfer of Permit

This permit may be transferred to a new owner or operator. All requests for transfer of permits shall be in writing and shall be submitted on forms provided by the Department. Before transferring ownership or operation of the facility during its operating life, the Permittee shall notify the new owner or operator in writing of the requirements of this permit.

12. Certification of Construction

The Permittee may not commence disposal of waste in any new cell or phase until the Permittee has submitted to the Department, by certified mail or hand delivery, a letter signed by both the Permittee and a professional engineer stating that the facility has been constructed in compliance with the permit. The Department must inspect the constructed cells or phases before the owner or operator can commence waste disposal unless the Permittee is notified that the Department will waive the inspection..

13. Compliance Schedules

Reports of compliance or noncompliance with or any progress reports on interim and final requirements contained in any compliance schedule required and approved by the Department shall be submitted no later than 14 days following each schedule date.

14. Other Noncompliance

The Permittee shall report all instances of noncompliance with the permit at the time monitoring reports are submitted.

15. Other Information

If the Permittee becomes aware that information required by the Application was not submitted or was incorrect in the Application or in any report to the Department, the Permittee shall promptly submit such facts or information. In addition, upon request, the Permittee shall furnish to the Department, within a reasonable time, information related to compliance with the permit.

F. Design and Operation of Facility

The Permittee shall maintain and operate the facility to minimize the possibility of a fire, explosion, or any unplanned sudden or nonsudden release of contaminants (including leachate and explosive gases) to air, soil, groundwater, or surface water, which could threaten human health or the environment.

G. Inspection Requirements

1. The Permittee shall comply with all requirements of ADEM Admin. Code Div. 13.
2. The Permittee shall conduct random inspections of incoming loads.
3. Records of all inspections shall be included in the operating record.

H. Recordkeeping and Reporting

1. The Permittee shall maintain a written operating record at the location specified in Section I.I. The operating record shall include:
 - a. Documentation of inspections and maintenance activities.
 - b. Daily Volume reports.
 - c. Personnel training documents and records.
 - d. Groundwater monitoring records if required.
 - e. Explosive gas monitoring records if required.
 - f. Copies of this Permit and the Application.
 - g. Copies of all variances granted by the Department, including copies of all approvals of special operating conditions.

2. Quarterly Volume Report

Beginning with the effective date of this permit, the Permittee shall submit, within thirty (30) days after the end of each calendar quarter, a report summarizing the daily waste receipts for the previous (just ended) quarter. Copies of the quarterly reports shall be maintained in the operating record.

3. Monitoring and Corrective Action Reports

The Permittee shall submit reports on all monitoring and corrective activities conducted pursuant to the requirements of this permit, including, but not limited to, groundwater, surface water, explosive gas and leachate monitoring. Groundwater monitoring is not required at this time, but if it is determined that monitoring is necessary, the Permittee shall conduct monitoring and submit reports as directed by the Department. Likewise, if necessary, explosive gas monitoring must be conducted and reports submitted as directed by the Department. Copies of the groundwater and explosive gas monitoring reports shall be maintained in the operating record.

4. Availability, Retention, and Disposition of Records

- a. All records, including plans, required under this permit or Division 13 must be furnished upon request, and made available at reasonable times for inspection by any officer, employee, or representative of the Department.
- b. All records, including plans, required under this permit or Division 13 shall be retained by the Permittee for a period of at least three years. The retention period for all records is extended automatically during the course of any unresolved enforcement action regarding the facility, or as requested by the Department.
- c. A copy of records of waste disposal locations and quantities must be submitted to the Department and local land authority upon closure of the facility.

I. Documents to be Maintained by the Permittee

The Permittee shall maintain, at the landfill, the following documents and amendments, revisions and modifications to these documents until an engineer certifies closure.

1. Operating record.
2. Closure Plan.

J. Mailing Location

All reports, notifications, or other submissions which are required by this permit should be sent via signed mail (i.e. certified mail, express mail delivery service, etc.) or hand delivered to:

1. Mailing Address
Chief, Solid Waste Branch, Land Division
Alabama Department of Environmental
Management
P.O. Box 301463
Montgomery, AL 36130-
1463

2. Physical Address
Chief, Solid Waste Branch, Land Division
Alabama Department of Environmental
Management 1400 Coliseum Blvd.
Montgomery, Alabama 36110-2400

K. Signatory Requirement

All applications, reports or information required by this permit, or otherwise submitted to the Department, shall be signed and certified by the owner as follows:

1. If an individual, by the applicant.
2. If a city, county, or other municipality or governmental entity, by the ranking elected official, or by a duly authorized representative of that person.
3. If a corporation, organization, or other legal entity, by a principal executive officer, of at least the level of Vice President, or by a duly authorized representative of that person.

L. Confidential Information

The Permittee may claim information submitted as confidential if the information is protected under Code of Alabama 1975, §§22-39-18, as amended.

M. State Laws and Regulations

Nothing in this permit shall be construed to preclude the initiation of any legal action or to relieve the Permittee from any responsibilities, liabilities, or penalties established pursuant to any applicable state law or regulation.

SECTION II. GENERAL OPERATING CONDITIONS

A. Operation of Facility

The Permittee shall operate and maintain the disposal facility consistent with the Application, this permit, and ADEM Admin. Code Div. 13.

B. Open Burning

The Permittee shall not allow open burning without prior written approval from the Department and other appropriate agencies. A burn request should be submitted in writing to the Department outlining why that burn request should be granted. This request should include, but not be limited to, specifically what areas will be utilized, types of waste to be burned, the projected starting and completion dates for the project, and the projected days and hours of operation. The approval, if granted, shall be included in the operating record.

C. Prevention of Unauthorized Disposal

The Permittee shall follow the approved procedures for the detecting and preventing the disposal of free liquids, regulated hazardous waste, PCB's, and medical waste at the facility.

D. Unauthorized Discharge

The Permittee shall operate the disposal facility in such a manner that there will be no water pollution or unauthorized discharge. Any discharge from the disposal facility or practice thereof may require a

National Pollutant Discharge Elimination System permit under the Alabama Water Pollution Control Act.

E. Industrial Waste Disposal

The Permittee shall not dispose of industrial process waste at this landfill. Only those wastes shown in Section III.B. are allowed for disposal in this landfill.

F. Boundary Markers

The Permittee shall ensure that the facility is identified with a sufficient number of permanent boundary markers that are at least visible from one marker to the next.

G. Certified Operator

The Permittee shall be required to have an operator certified by the Department on-site during hours of operation, in accordance with the requirements of ADEM Admin. Code 335-13-12.

SECTION III. SPECIFIC REQUIREMENTS FOR C/D LANDFILLS

A. Waste Identification and Management

1. Subject to the terms of this permit, the Permittee may accept for disposal the nonhazardous solid wastes listed in III.B. Disposal of any other wastes is prohibited, except waste granted a temporary or one time waiver by the Director.
2. The total permitted area for the Fairhope Inert Landfill is approximately 17.59 acres and approximately 16.05 acres is approved for disposal operations.
3. The maximum average daily volume of waste disposed at the facility, as contained in the permit application and approved by the City of Fairhope, shall not exceed 257 cubic yards per day or 100 tons per day. Should the average daily volume exceed this value by 20% or 100 tons per day, whichever is less, for two (2) consecutive quarters the permittee shall be required to modify the permit in accordance with Rule 335-13-5-.06(2)(a)5. An increase in maximum average daily volume shall not be approved by the Department unless the permittee has received local approval for the increased maximum average daily volume. The average daily volume shall be computed as specified by Rule 335-13-5-.06(2)(a)5.(i).

B. Waste Streams

The Permittee may accept for disposal non-putrescible and non-hazardous construction and demolition, discarded tires and rubbish as defined by ADEM Rule 335-13-1-.03.

C. Service Area

The service area for this landfill, as contained in the permit application and approved by the City of Fairhope, is the corporate city limits of the City of Fairhope, Alabama.

D. Waste Placement, Compaction, and Cover

All waste shall be confined to an area as small as possible and placed onto an appropriate slope not to exceed 4 to 1 (25%) or as approved by the Department. All waste shall be spread in layers two feet or less in thickness and thoroughly compacted weekly with adequate landfill equipment prior to placing additional layers of waste or placing the weekly cover. A minimum of six inches of compacted earth or other alternative cover material approved by the Department shall be added at the conclusion of each week's operation unless a variance is granted in Section VIII.

E. Security

The Permittee shall provide artificial and/or natural barriers, which prevent entry of unauthorized vehicular traffic to the facility.

F. All Weather Access Roads

The Permittee shall provide an all-weather access road to the dumping face that is wide enough to allow passage of collection vehicles.

G. Adverse Weather Disposal

The Permittee shall provide for disposal activities in adverse weather conditions.

H. Personnel

The Permittee shall maintain adequate personnel to ensure continued and smooth operation of the facility.

I. Environmental Monitoring and Treatment Structures

The Permittee shall provide protection and proper maintenance of environmental monitoring and treatment structures.

J. Vector Control

The Permittee shall provide for vector control as required by ADEM Admin. Code Division 13.

K. Bulk or Noncontainerized Liquid Waste

The Permittee shall not dispose of bulk or noncontainerized liquid waste, or containers capable of holding liquids, unless the conditions of Rule 335-13-4-.23(1)(j) are met.

L. Empty Containers

Empty containers larger than 10 gallons in size must be rendered unsuitable for holding liquids prior to disposal in the landfill unless otherwise approved by the Department.

M. Other Requirements

The Department may enhance or reduce any requirements for operating and maintaining the landfill as deemed necessary by the Land Division.

N. Other Permits

The Permittee shall operate the landfill according to this and any other applicable permits.

O. Scavenging and Salvaging Operations

The Permittee shall prevent scavenging and salvaging operations, except as part of a controlled recycling effort. Any recycling operation must be in accordance with plans submitted and approved by the Department.

P. Signs

If the landfill is available to the public or commercial haulers, the Permittee shall provide a sign outlining instructions for use of the site. The sign shall be posted and have the information required by Rule 335-13-4-.23(1)(f).

Q. Litter Control

The Permittee shall control litter.

R. Fire Control

The Permittee shall provide fire control measures.

SECTION IV. GROUNDWATER MONITORING REQUIREMENTS

Groundwater monitoring is not required at this landfill provided that the waste stream is in accordance with Section III.B. Should any waste be disposed other than the waste streams indicated in Section III.B., the Department may require that groundwater-monitoring wells be installed.

SECTION V. GAS MONITORING REQUIREMENTS

The Permittee must install and maintain an explosive gas monitoring system in accordance with ADEM Administrative Code, Division 13.

SECTION VI. SURFACE WATER MANAGEMENT

The Permittee shall construct and maintain run-on and run-off control structures to control the discharge of pollutants in stormwater. Any discharges from drainage control structures shall be permitted through a discharge permit issued by the ADEM Water Division.

SECTION VII. CLOSURE AND POST-CLOSURE REQUIREMENTS

The Permittee shall close the landfill and perform post-closure care of the landfill in accordance with ADEM Admin. Code Div. 13.

A. Final Cover

The Permittee shall grade final soil cover such that surface water does not pond over the permitted area as specified in the Application. The final cover system shall comply with ADEM Admin. Code Div. 13. The Permittee is granted a variance from Rule 334-13-4-.20(2)(c)(2). This variance will allow the final cover maximum slope to 33% or 3 to 1. (See Section VIII.1.)

B. Vegetative Cover

The Permittee shall establish a vegetative or other appropriate cover within 90 days after completion of final grading requirements in the Application. Preparation of a vegetative cover shall include, but not be limited to, the placement of seed, fertilizer, mulch, and water.

C. Notice of Intent

The Permittee shall place in the operating record and notify the Department of their intent to close the landfill prior to beginning closure.

D. Completion of Closure Activities

The Permittee must complete closure activities of each landfill unit in accordance with the Closure Plan within 180 days of the last known receipt of waste.

E. Certification of Closure

Following closure of each unit, the Permittee must submit to the Department a certification, signed by an engineer, verifying the closure has been completed according to the Closure Plan.

F. Post-Closure Care Period

Post-closure care activities shall be conducted after closure of each unit throughout the life of this permit and continuing for a period of thirty (30) years following closure of the facility. The Department may shorten or extend the post-closure care period applicable to the solid waste disposal facility. The Permittee shall reapply in order to fulfill the post-closure care requirements of this permit.

G. Post-Closure Maintenance

The Permittee shall provide post closure maintenance of the facility to include regularly scheduled inspections. This shall include maintenance of the cover, vegetation, monitoring devices and pollution control equipment and correction of other deficiencies that may be observed by the Department. Monitoring requirements shall continue throughout the post closure period as determined by the Department unless all waste is removed and no unpermitted discharge to waters of the State have occurred.

H. Post-Closure Use of Property

The Permittee shall ensure that post closure use of the property never be allowed to disturb the integrity of the final cover, liner, or any other component of the containment system. This shall preclude the growing of deep-rooted vegetation on the closed area.

I. Certification of Post-Closure

Following post-closure of each unit, the Permittee must submit to the Department a certification, signed by an engineer, verifying the post-closure has been completed according to the Post-Closure Plan.

J. Notice in Deed to Property

The Permittee shall record a notation onto the land deed containing the property utilized for disposal within 90 days after permit expiration, revocation or when closure requirements are achieved as determined by the Department as stated in the Application. This notation shall state that the land has been used as a solid waste disposal facility, the name of the Permittee, type of disposal activity, location of the disposal facility and beginning and closure dates of the disposal activity.

K. Recording Instrument

The Permittee shall submit a certified copy of the recording instrument to the Department within 120 days after permit expiration, revocation, or as directed by the Department as described in the Application.

L. Removal of Waste

If the Permittee, or any other person(s), wishes to remove waste, waste residues, or any liner or contaminated soils, the owner must request and receive prior approval from the Department.

SECTION VIII. VARIANCES.

1. The Permittee is granted a variance from Rule 335-13-4-.20(2)(c)(2). This variance will allow the final cover maximum slope to 33% or 3 to 1. (See Section VII.A.)
2. **The Permittee is granted a variance from Rule 335-13-4-.12(2)(f) requiring a 100 foot buffer. The variance is granted for all existing waste already disposed of in the buffer zone. No further disposal shall take place within 100 feet of the permitted boundary.**

Any variance granted by the Department may be terminated by the Department whenever the Department finds, after notice and opportunity for hearing, that the petitioner is in violation of any requirement, condition, schedule, limitation or any other provision of the variance, or that operation under the variance does not meet the minimum requirements established by state and federal laws and regulations or is unreasonably threatening the public health.

APPLICATION



March 16, 2017

Mr. Blake Holden
Alabama Department of Environmental Management
1400 Coliseum Boulevard
Montgomery, Alabama 36110-2400

Dear Mr. Holden,

Goodwyn, Mills and Cawood, Inc. (**GMC**) has been retained by the City of Fairhope to assist in the renewal of Permit No. 02-07 for the City of Fairhope C&D Landfill. This request does not include any major or minor modifications.

Please find included three (3) copies of the application for permit renewal for Permit No. 02-07. Each copy of the application includes one (1) of the following:

- ADEM Form 305
- Existing Resolution
- FIRM with Site Location
- Adjacent Landowner Information
- Updating Engineering Drawings (depicting current site conditions)

Should you have any questions or require further information, please contact me by phone at (334) 271-3200 or by email at wesley.caputo@gmcnetwork.com. Thanks you for your time!

Sincerely,

J. Wesley Caputo, EI, CFM

Goodwyn Mills Cawood

PO Box 242128
Montgomery, AL 36124

T (334) 271-3200
F (334) 272-1566

www.gmcnetwork.com



Building Communities

**SOLID WASTE DISPOSAL FACILITY
CONSTRUCTION/DEMOLITION LANDFILL
PERMIT APPLICATION PACKAGE**

July 10, 2002

MEMORANDUM

TO: Applicants Seeking a Permit for Solid Waste Facilities

FROM: Wm. Gerald Hardy, Chief
Land Division
Alabama Department of Environmental Management

RE: Processing Solid Waste Permits by ADEM

Any permit issued by ADEM must be in accordance with §22-27-48 Code of Alabama. This section indicates that ADEM may not consider an application for a new or modified permit unless such application has received approval by the affected unit of local government having an approved plan. ADEM, therefore, will require the following before it can process a new or modified permit application:

1. The local government having jurisdiction must approve the permit application in accordance with §22-27-48 Code of Alabama.
2. The applicant shall obtain a statement of consistency from the regional planning and development commission. The commission shall evaluate the proposal using the provisions of the current regional solid waste management needs assessment.
3. Local governments and the regional planning and development commissions should follow the procedures outlined in §22-27-48 Code of Alabama and the siting standards included in the local approved plan in considering approval of a facility.

This procedure applies to applications for new or modified permits. ADEM cannot review an application unless it includes approval from the affected local government and a statement of consistency from the regional planning and development commission. This procedure shall not apply to exempted industrial landfills receiving waste generated on site only by the permittee.

Please contact the Solid Waste Branch of ADEM at (334) 271-7988 if there are any questions.

WGH/

CONSTRUCTION AND DEMOLITION LANDFILL
SITING AND HYDROGEOLOGICAL EVALUATION SHEET
(SUPPLEMENT TO C/D APPLICATION)

All of the following items should be included with a construction and demolition landfill permit application:

1. •Local Approval
 •Statement of Consistency
 •Fees

2. •Map showing flood prone areas.

3. Evaluation of land use:
 - Wetlands determination by U.S.A. Corps of Engineers
 - Endangered species determination by U.S. Fish and Wildlife Service
 - Habitat
 - Archaeologically sensitive areas determined by Alabama Historical Commission.

4. Site geology using borings, exploration pits, or hydrogeologic mapping for the purposes of determining the minimum 5-foot separation between groundwater and the cell bottom.

5. Location of borings, pits, and sections on a map.

6. Log of pits and borings.

7. A map showing geology and structural features such as sink holes and faults.

8. •Engineer's stamp on plans.

9. A Certification Letter, signed by an registered professional engineer, verifying the accuracy of the submitted permit application.

SECTION III:

LANDFILL OPERATOR:

Name: (1) Richard Peterson (2) _____
Address: P.O. Box 429 _____
Fairhope, Al 36533 _____
Telephone: 251-990-2884 _____

SECTION IV:

CONTACT PERSON(S):

Name: (1) Richard Peterson (2) _____
Address: P.O. Box 429 _____
Fairhope, Al 36533 _____
Telephone: 251-990-2884 _____

SECTION V:

LANDOWNER(S):

Name: (1) City of Fairhope (2) _____
Address: P.O. Box 429 _____
Fairhope, Al 36533 _____
Telephone: 251-928-2136 _____

Attach copy of agreement from landowner giving permission to use site for disposal if landowner is different from applicant.

SECTION VI:

ADJACENT LANDOWNER(S):

- a. Submit a list of all adjacent landowners including name and current mailing address
- b. Submit a drawing/map identifying the proposed disposal site and the properties of all adjacent landowners listed in "a" above.

SECTION VII:

LOCAL APPROVAL: No Required (Yes or No)
_____ Date Received if needed (attach copy of resolution and proof of publishing public notice)

SECTION VIII:

WASTE DESCRIPTION:

a. Describe and list all waste streams/types to be accepted at landfill:

The landfill accepts for disposal non-putrescible and non-hazardous construction and demolition waste including but not limited to wood, trees, stumps, limbs, scrap metal, masonry and other construction debris, leaves, grass clippings, discarded tires, paper, cardboard, appliances and various other inert waste materials.

b. List proposed service area (geographic area or location(s)):

City of Fairhope, Alabama and surrounding areas in Baldwin County.

c. What is the maximum daily volume of waste to be received at the landfill? (Select One)

_____ tons per day 257 _____ cubic yards per day

SECTION IX:

SITE DESCRIPTION:

a. Attach location map with the site clearly identified. Acceptable maps include a USGS 7.5 or 15 minute series, a county highway map published by the Alabama Department of Transportation.

b. Location:

County: Baldwin

Part: SE of Section(s): 20

Township(s): 6S Range(s): 2E

c. Attach legal property description and boundary plat of the permitted area and disposal area prepared and signed by a licensed land surveyor.

d. Size of permitted area: 13.6 acres

e. Size of disposal area: 13.6 acres

SECTION X:

This Section is to be completed by the applicants/permittees. A copy of all concurrence letters must be attached to this application upon submittal to the Department.

Location Standards: (Rule 335-13-4-.01(1))

- a. Is the landfill located in the 100-year flood plain? (need to have flood plain map)
NO: YES:
- b. Does the proposed landfill disposal area:
- (1.) Jeopardize the continued existence of endangered or threatened species protected under the Endangered Species Act of 1973?
NO: YES: (Attach letter from U.S. Dept. of Interior or Alabama Fish and Wildlife)
- (2.) Result in the destruction or adverse modification of critical habitats protected under the Endangered Species Act of 1973?
NO: YES: (Attach letter from U.S. Dept. of Interior or Alabama Fish and Wildlife)
- c. Is the proposed landfill located in a zone of active faults, seismic impact zones and unstable areas?
NO: YES:
(If YES then all required seismic studies should be submitted to the Department.)
- d. Is the proposed landfill located in an area that is archaeologically sensitive?
NO: YES: (Attach letter from State Historic Preservation Officer)

Water Quality Standards (Rule 335-13-4-.01(2)):

(ADEM Water Division should be contacted to determine if permit is required)

- a. Will the proposed landfill discharge pollutants to waters of the State in violation of requirements of the National Pollutant Discharge Elimination System (NPDES) Permit?
NO: YES:
- b. Will the proposed landfill violate any requirement of an area wide or Statewide water quality plan that has been approved under the Alabama Water Pollution Control Act?
NO: YES:
- c. Will any part of the landfill, including buffer zone, be located in wetlands, beaches, dunes?
NO: YES:

d. Will solid waste be disposed in any location which will significantly degrade wetlands, beaches, or dunes?
NO: YES:

e. Will the proposed landfill be located outside the boundaries of the coastal area? (If not, then all demonstrations should be submitted to the Department for review.)
NO: YES:

Groundwater Elevations:

Has a minimum five-foot separation between the floor of the disposal cell and the groundwater been established?
NO: YES:

SECTION XI:

GENERAL COMMENTS:

All materials listed in Rules 335-13-4-.12 to 335-13-4-.17, Rules 335-13-4-.19 to 335-13-4-.20, and Rule 335-13-4-.23 shall be kept at the landfill office along with a copy of the engineering drawings which must be submitted to the Department for review.

The applicant/permittee is responsible for obtaining a copy of the Division 13 regulations and complying with all Rules related to construction/demolition landfill units.

SECTION XII:

CERTIFICATION OF LOCAL GOVERNMENT APPROVAL:

Upon submittal of this application, we the undersigned certify that local approval has been obtained from City of Fairhope (city/county). Evidence of this local approval is contained in documents which are on file at the permit applicant's business address.

CERTIFICATION OF COMPLIANCE:

Upon submittal of this application, we the undersigned certify that this document and all attachments submitted are to the best of our knowledge and belief, true, accurate, and complete. We also understand that if any of the material certified to above has not been received, or is not complete or is not accurate, that shall be grounds for the Department to revoke the landfill permit if issued.

SIGNATURE (Responsible official of permit applicant):

[Signature] TITLE: MAYOR

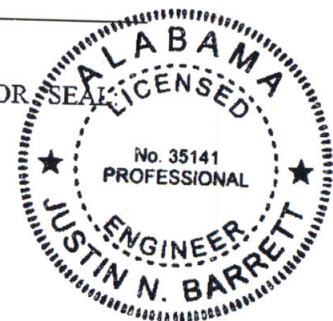
KARIN WILSON DATE: 3/16/17
(please print or type name)

SIGNATURE (Certifying Engineer):

[Signature] TITLE: Project Engineer

Justin N. Barrett DATE: 3/16/17
(please print or type name)

FIRM: Goodwyn Mills and Council, Inc. STAMP OR SEAL



Name	Address	City	State	Zip
Bell, Loetta	19227 Bell Road	Fairhope	AL	36532
Coleman, Annie Mary	P.O. Box 536	Fairhope	AL	36533
Crandall, Franklin, et al.	P.O. Box 285	Daphne	AL	36526
Jackson, Elie & Annie	19195 Bell Road	Fairhope	AL	36532
Jetson, Stanley, et al.	P.O. Box 321	Fairhope	AL	36532
Knight, Mary Alice	P.O. Box 255	Loxley	AL	36551
Mack, Lekesha	P.O. Box 255	Loxley	AL	36551


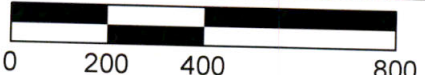


REF. SHEET: BALDWIN COUNTY GIS
 DESCRIPTION: PERMIT NO. 02-07 RENEWAL

CITY OF FAIRHOPE C&D LANDFILL
 FAIRHOPE, BALDWIN COUNTY, ALABAMA

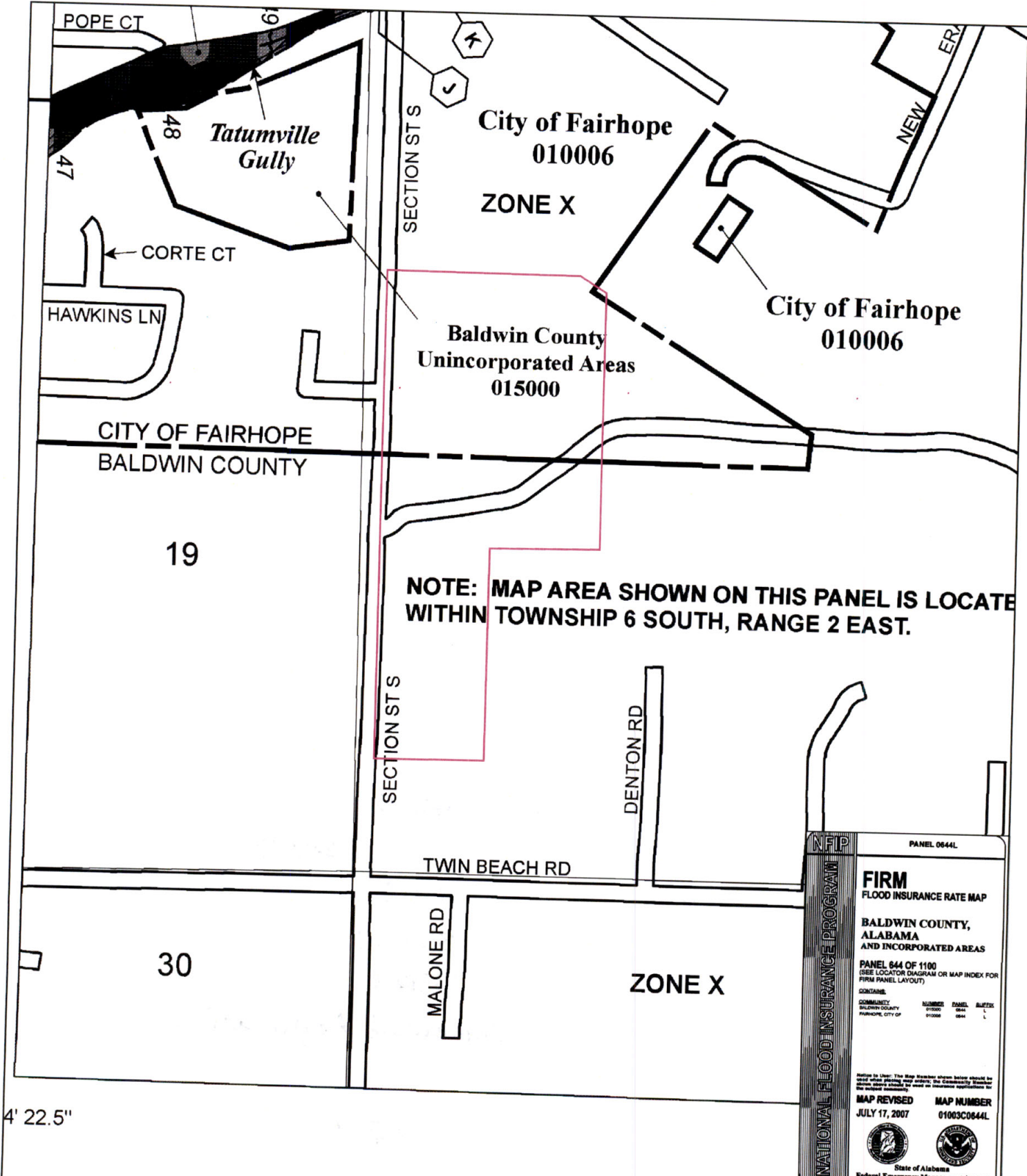
FIGURE 2

GIS AND LAND OWNERS
 GMC #
 DATE: 03/06/2017
 DRAWN BY: JWC



 NORTH SCALE: 1" = 400'

 GOODWYN | MILLS | CAWOOD

2660 EastChase Lane, Suite 200 | Montgomery, AL 36117
 Tel 334.271.3200 | GMCNETWORK.COM



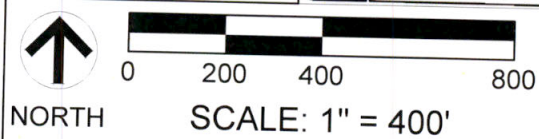
NOTE: MAP AREA SHOWN ON THIS PANEL IS LOCATED WITHIN TOWNSHIP 6 SOUTH, RANGE 2 EAST.

FIRM
FLOOD INSURANCE RATE MAP
BALDWIN COUNTY, ALABAMA AND INCORPORATED AREAS
 PANEL 044 OF 1100
 (SEE LOCATOR DIAGRAM OR MAP INDEX FOR FIRM PANEL LAYOUT)

CONTAINS			
COMMUNITY	NUMBER	PANEL	SUFFIX
BALDWIN COUNTY	01000	044	L
FAIRHOPE, CITY OF	01006	044	L

MAP REVISED: JULY 17, 2007
 MAP NUMBER: 01003C0844L

State of Alabama
 Federal Emergency Management Agency



PERMITTED BOUNDARY

REF. SHEET: FEMA FIRM PANEL 01003C0644L
 DESCRIPTION: PERMIT NO. 02-07 RENEWAL

CITY OF FAIRHOPE C&D LANDFILL
 FAIRHOPE, BALDWIN COUNTY, ALABAMA

FIGURE 1

FLOOD MAP
 GMC #
 DATE: 03/06/2017
 DRAWN BY: JWC

GOODWYN | MILLS | CAWOOD

2660 EastChase Lane, Suite 200 | Montgomery, AL 36117
 Tel 334.271.3200 | GMCNETWORK.COM



May 10, 2017

Mr. Blake Holden
Alabama Department of Environmental Management
1400 Coliseum Boulevard
Montgomery, Alabama 36110-2400

Dear Mr. Holden,

Goodwyn, Mills and Cawood, Inc. (**GMC**) has been retained by the City of Fairhope to assist in the renewal of Permit No. 02-07 for the Fairhope Inert Landfill. This request does not include any major or minor modifications.

Please find included three (3) copies of the application for permit renewal for Permit No. 02-07. Each copy of the application includes one (1) of the following:

- ADEM Form 305
- Existing Resolution
- FIRM with Site Location
- Adjacent Landowner Information
- Updating Engineering Drawings (depicting current site conditions)

This permit application includes a request to retain any previously approved variances for the Fairhope Inert Landfill. Previously, a variance was granted from Rule 443-13-4-.20(2)(c)(2), allowing the final cover maximum slope to 33% or 3 to 1.

Should you have any questions or require further information, please contact me by phone at (334) 271-3200 or by email at wesley.caputo@gmcnetwork.com. Thanks you for your time!

Sincerely,

J. Wesley Caputo, EI, CFM

Goodwyn Mills Cawood

PO Box 242128
Montgomery, AL 36124

T (334) 271-3200
F (334) 272-1566

www.gmcnetwork.com

Building Communities

SECTION III:

LANDFILL OPERATOR:

Name: (1) Richard Peterson (2) _____
Address: P.O. Box 429 _____
Fairhope, Al 36533 _____
Telephone: 251-990-2884 _____

SECTION IV:

CONTACT PERSON(S):

Name: (1) Richard Peterson (2) _____
Address: P.O. Box 429 _____
Fairhope, Al 36533 _____
Telephone: 251-990-2884 _____

SECTION V:

LANDOWNER(S):

Name: (1) City of Fairhope (2) _____
Address: P.O. Box 429 _____
Fairhope, Al 36533 _____
Telephone: 251-928-2136 _____

Attach copy of agreement from landowner giving permission to use site for disposal if landowner is different from applicant.

SECTION VI:

ADJACENT LANDOWNER(S):

- a. Submit a list of all adjacent landowners including name and current mailing address
- b. Submit a drawing/map identifying the proposed disposal site and the properties of all adjacent landowners listed in "a" above.

SECTION VII:

LOCAL APPROVAL: No Required (Yes or No)
_____ Date Received if needed (attach copy of resolution and proof of publishing public notice)

SECTION VIII:

WASTE DESCRIPTION:

a. Describe and list all waste streams/types to be accepted at landfill:

The landfill accepts for disposal non-putrescible and non-hazardous construction and demolition waste including but not limited to wood, trees, stumps, limbs, scrap metal, masonry and other construction debris, leaves, grass clippings, discarded tires, paper, cardboard, appliances and various other inert waste materials.

b. List proposed service area (geographic area or location(s)):

City of Fairhope, Alabama and surrounding areas in Baldwin County.

c. What is the maximum daily volume of waste to be received at the landfill? (Select One)

_____ tons per day 257 _____ cubic yards per day

SECTION IX:

SITE DESCRIPTION:

a. Attach location map with the site clearly identified. Acceptable maps include a USGS 7.5 or 15 minute series, a county highway map published by the Alabama Department of Transportation.

b. Location:

County: Baldwin
Part: SE of Section(s): 20
Township(s): 6S Range(s): 2E

c. Attach legal property description and boundary plat of the permitted area and disposal area prepared and signed by a licensed land surveyor.

d. Size of permitted area: 13.6 acres

e. Size of disposal area: 13.6 acres

SECTION X:

This Section is to be completed by the applicants/permittees. A copy of all concurrence letters must be attached to this application upon submittal to the Department.

Location Standards: (Rule 335-13-4-.01(1))

- a. Is the landfill located in the 100-year flood plain? (need to have flood plain map)
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- (1.) Jeopardize the continued existence of endangered or threatened species protected under the Endangered Species Act of 1973?
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- (2.) Result in the destruction or adverse modification of critical habitats protected under the Endangered Species Act of 1973?
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- c. Is the proposed landfill located in a zone of active faults, seismic impact zones and unstable areas?
NO: YES:
(If YES then all required seismic studies should be submitted to the Department.)
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Water Quality Standards (Rule 335-13-4-.01(2)):

(ADEM Water Division should be contacted to determine if permit is required)

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NO: YES:
- c. Will any part of the landfill, including buffer zone, be located in wetlands, beaches, dunes?
NO: YES:

d. Will solid waste be disposed in any location which will significantly degrade wetlands, beaches, or dunes?

NO: YES:

e. Will the proposed landfill be located outside the boundaries of the coastal area? (If not, then all demonstrations should be submitted to the Department for review.)

NO: YES:

Groundwater Elevations:

Has a minimum five-foot separation between the floor of the disposal cell and the groundwater been established? NO: YES:

SECTION XI:

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All materials listed in Rules 335-13-4-.12 to 335-13-4-.17, Rules 335-13-4-.19 to 335-13-4-.20, and Rule 335-13-4-.23 shall be kept at the landfill office along with a copy of the engineering drawings which must be submitted to the Department for review.

The applicant/permittee is responsible for obtaining a copy of the Division 13 regulations and complying with all Rules related to construction/demolition landfill units.

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CERTIFICATION OF COMPLIANCE:

Upon submittal of this application, we the undersigned certify that this document and all attachments submitted are to the best of our knowledge and belief, true, accurate, and complete. We also understand that if any of the material certified to above has not been received, or is not complete or is not accurate, that shall be grounds for the Department to revoke the landfill permit if issued.

SIGNATURE (Responsible official of permit applicant):

[Signature] TITLE: MAYOR

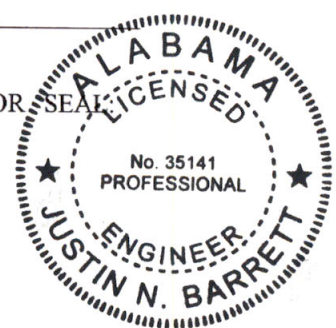
KARIN WILSON DATE: 3/16/17
(please print or type name)

SIGNATURE (Certifying Engineer):

[Signature] TITLE: Project Engineer

Justin N. Barrett DATE: 3/16/17
(please print or type name)

FIRM: Godwyn Mills and Curwood, Inc. STAMP OR SEAL

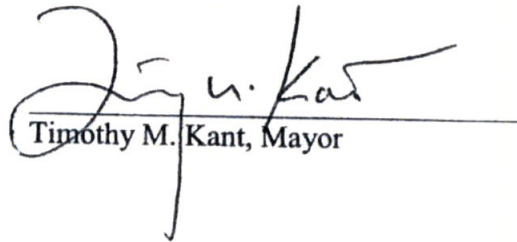


**APPENDIX A
SIGNED RESOLUTION**

RESOLUTION NO. 1732-11

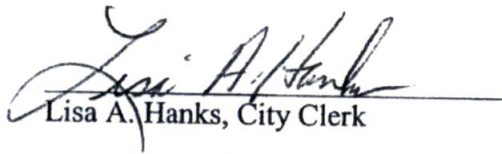
BE IT RESOLVED BY THE GOVERNING BODY OF THE CITY OF FAIRHOPE, ALABAMA, that the City Council approves and authorizes, based on the recommendation of the Garbage Advisory Committee, to increase the elevation of the City of Fairhope's landfill by thirty (30) feet and to establish a buffer for the landfill.

Adopted on this 10th day of January, 2011



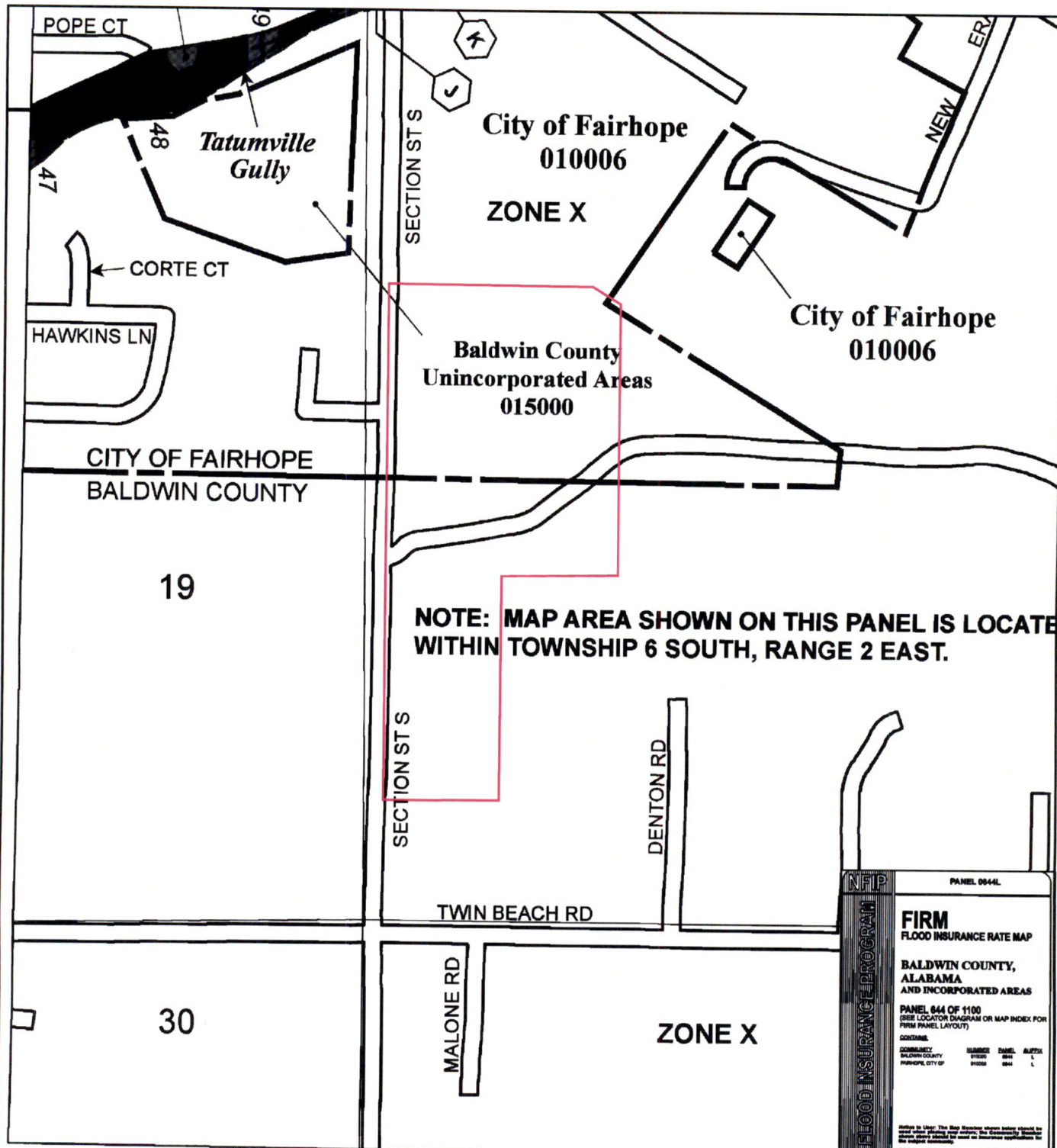
Timothy M. Kant, Mayor

Attest:



Lisa A. Hanks, City Clerk

**APPENDIX B
FIGURES**



NOTE: MAP AREA SHOWN ON THIS PANEL IS LOCATED WITHIN TOWNSHIP 6 SOUTH, RANGE 2 EAST.

PANEL 0644L

NFIP

FIRM
FLOOD INSURANCE RATE MAP

BALDWIN COUNTY, ALABAMA AND INCORPORATED AREAS

PANEL 644 OF 1100
(SEE LOCATOR DIAGRAM OR MAP INDEX FOR FIRM PANEL LAYOUT)

CONTAINS:

COMMUNITY	INSURANCE	DATE	AUTHORITY
BALDWIN COUNTY	01000	0644	L
MUNICIPALITY CITY OF	01000	0644	L

Subject to LHM: This Map Revision system is subject to the most recent edition of the Community Standard for Flood Insurance Rate Maps and the National Flood Insurance Program Act of 1968.

MAP REVISED: JULY 17, 2007

MAP NUMBER: 01003C0644L

State of Alabama
Federal Emergency Management Agency

4' 22.5"

PERMITTED BOUNDARY

NORTH

SCALE: 1" = 400'

REF. SHEET: FEMA FIRM PANEL 01003C0644L
DESCRIPTION: PERMIT NO. 02-07 RENEWAL

CITY OF FAIRHOPE C&D LANDFILL
FAIRHOPE, BALDWIN COUNTY, ALABAMA

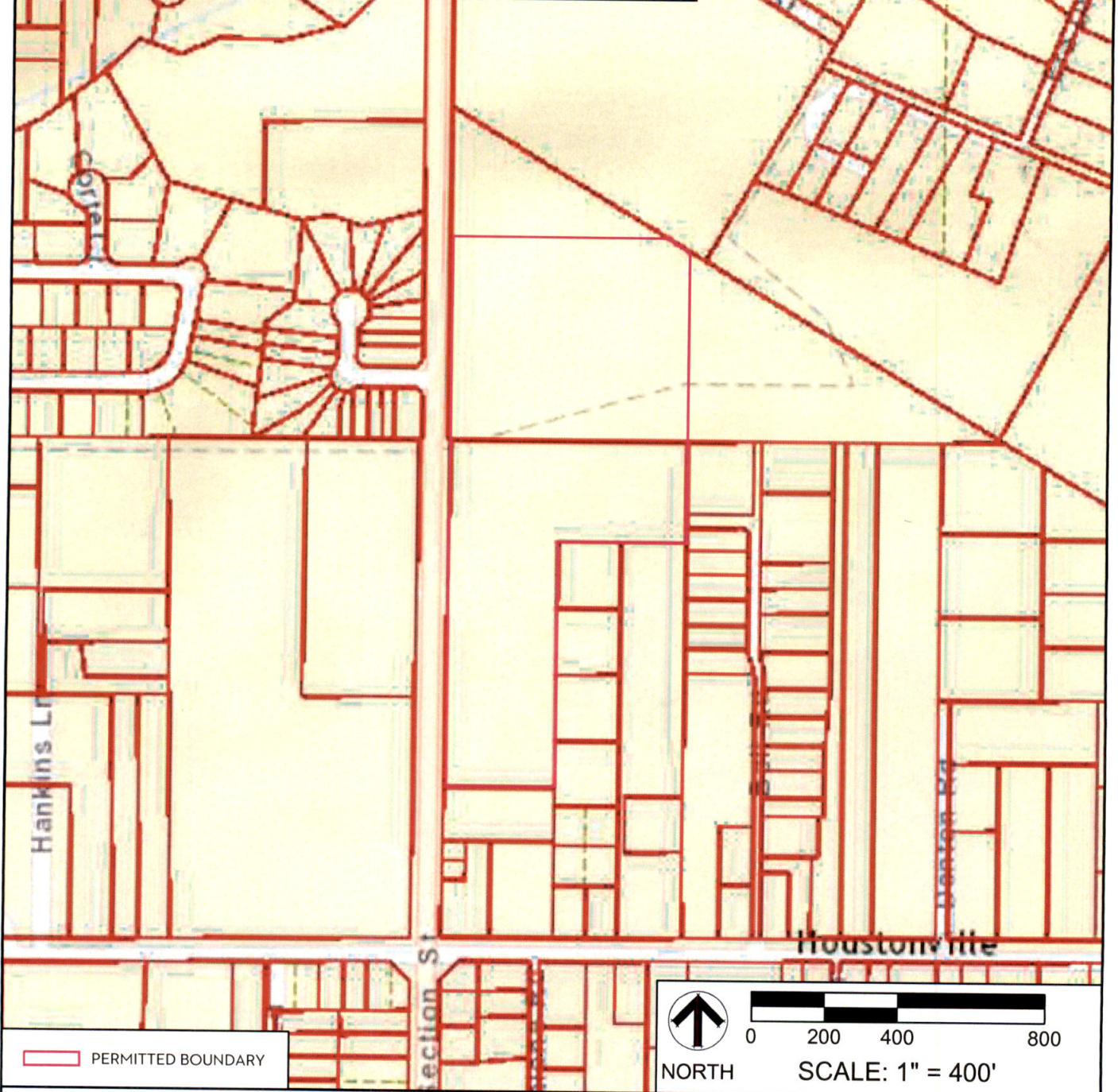
FIGURE 1

FLOOD MAP
GMC #
DATE: 03/06/2017
DRAWN BY: JWC

GOODWYN | MILLS | CAWOOD

2660 EastChase Lane, Suite 200 | Montgomery, AL 36117
Tel 334.271.3200 | GMCNETWORK.COM

Name	Address	City	State	Zip
Bell, Loetta	19227 Bell Road	Fairhope	AL	36532
Coleman, Annie Mary	P.O. Box 536	Fairhope	AL	36533
Crandall, Franklin, et al.	P.O. Box 285	Daphne	AL	36526
Jackson, Elie & Annie	19195 Bell Road	Fairhope	AL	36532
Jetson, Stanley, et al.	P.O. Box 321	Fairhope	AL	36532
Knight, Mary Alice	P.O. Box 255	Loxley	AL	36551
Mack, Lekesha	P.O. Box 255	Loxley	AL	36551


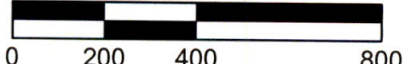


REF. SHEET: BALDWIN COUNTY GIS
 DESCRIPTION: PERMIT NO. 02-07 RENEWAL

CITY OF FAIRHOPE C&D LANDFILL
 FAIRHOPE, BALDWIN COUNTY, ALABAMA

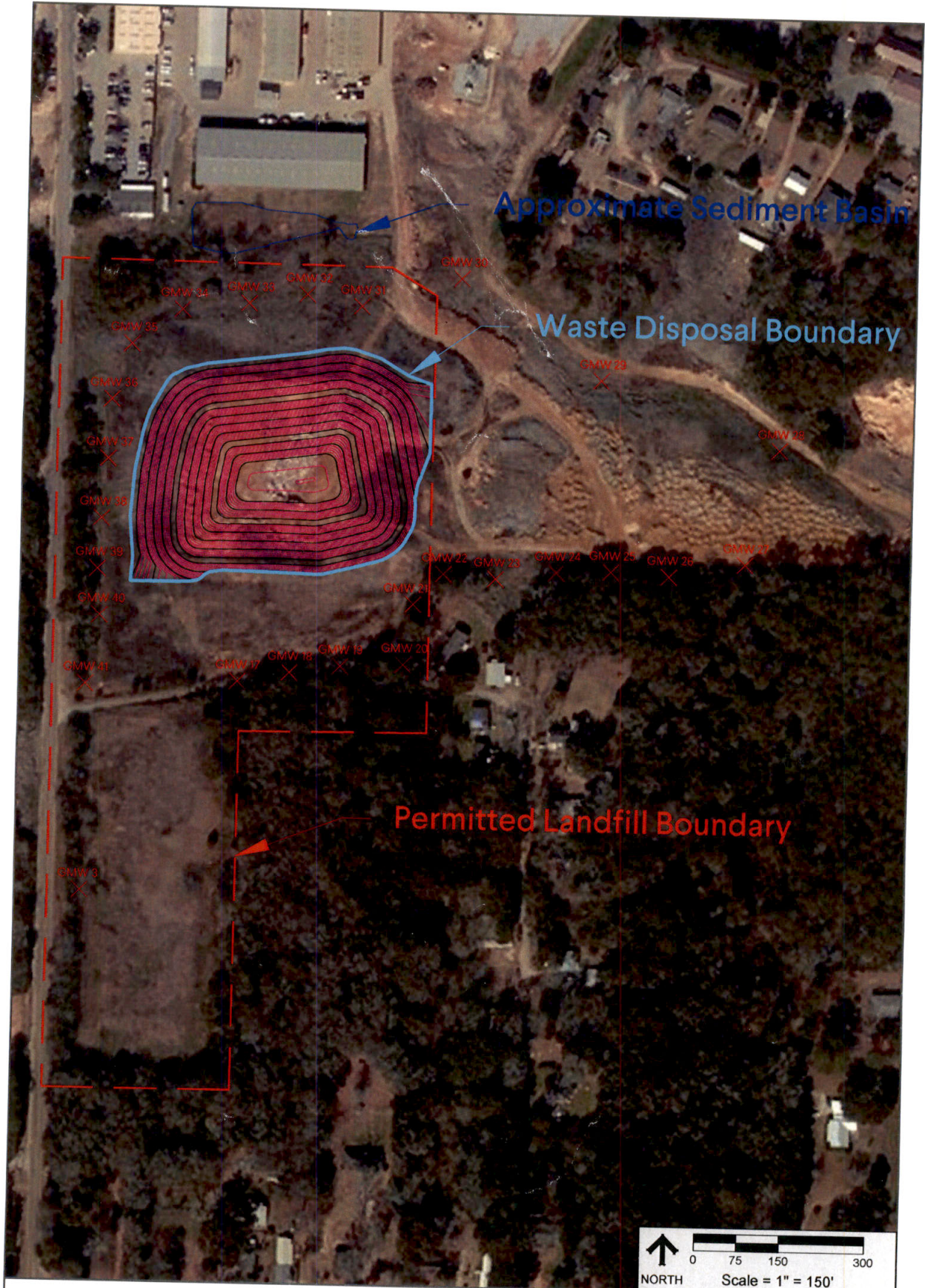
FIGURE 2

GIS AND LAND OWNERS
 GMC #
 DATE: 03/06/2017
 DRAWN BY: JWC



 NORTH SCALE: 1" = 400'

 GOODWYN | MILLS | CAWOOD

2660 EastChase Lane, Suite 200 | Montgomery, AL 36117
 Tel 334.271.3200 | GMCNETWORK.COM



FAIRHOPE C & D LANDFILL PERMIT RENEWAL
 FAIRHOPE, BALDWIN COUNTY, ALABAMA

FIGURE 1

SUPPLEMENTAL DRAWING
 GMC # EMOB178001
 09/18/2017
 DRAWN BY: AKD

11 North Water Street, Suite 15250
 Mobile, AL 36602
 T 251.460.4006
 GMCNETWORK.COM

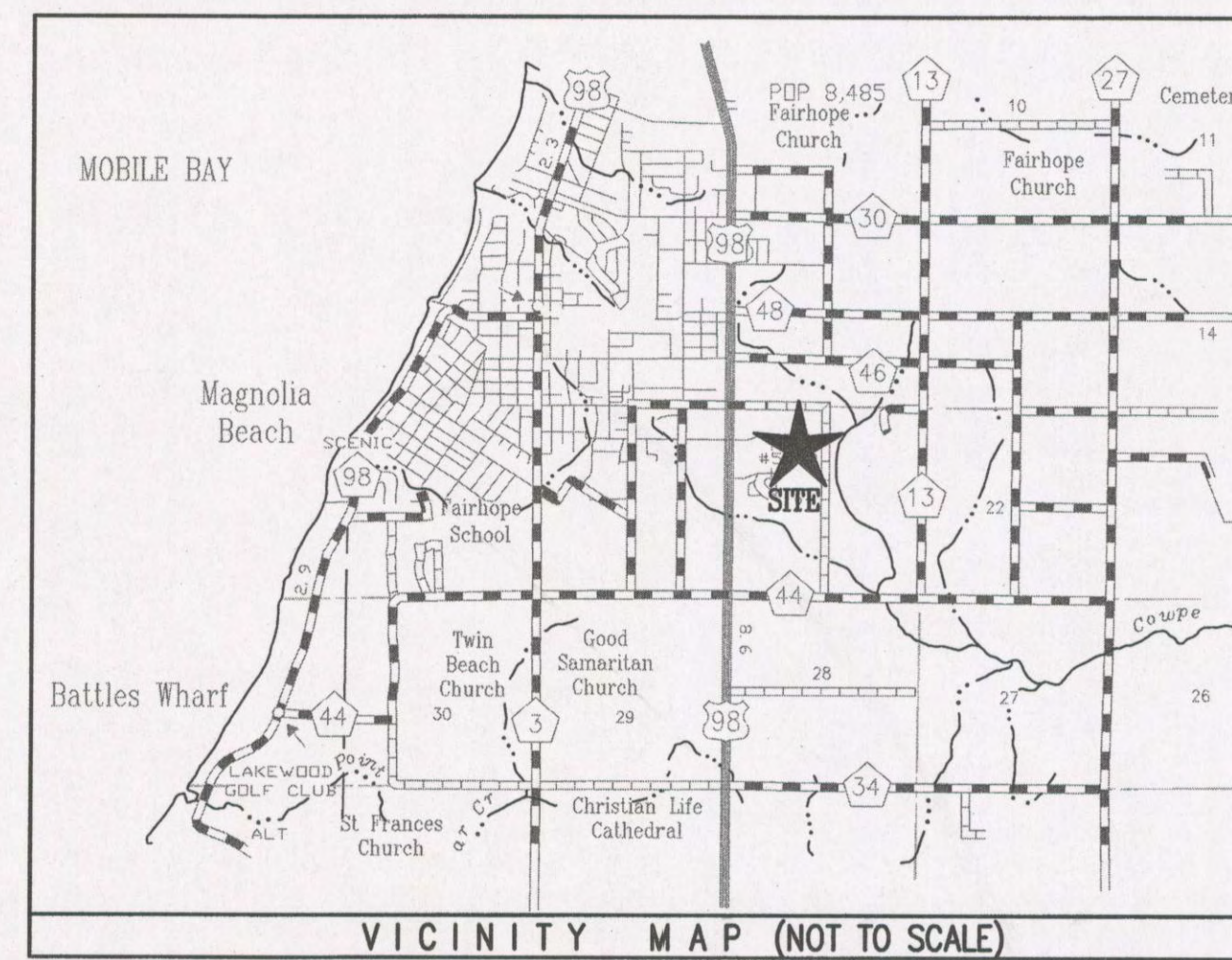


CITY OF FAIRHOPE FAIRHOPE C&D LANDFILL

CMOB190093 - FAIRHOPE, Alabama

**GOODWYN | MILLS | CAWOOD JOB NUMBER CMOB-190093
JULY 2019**

Sheet List Table	
Sheet Number	Sheet Title
1.01	TITLE SHEET
2.01	EXISTING CONDITIONS
3.01	CLOSURE PLAN
3.02	CLOSURE PLAN
4.01	CROSS SECTIONS - 1 & 2
4.02	CROSS SECTIONS - 3 & 4
4.03	CROSS SECTIONS - 5
5.01	CIVIL CONSTRUCTION DETAILS
6.01	EROSION CONTROL DETAILS

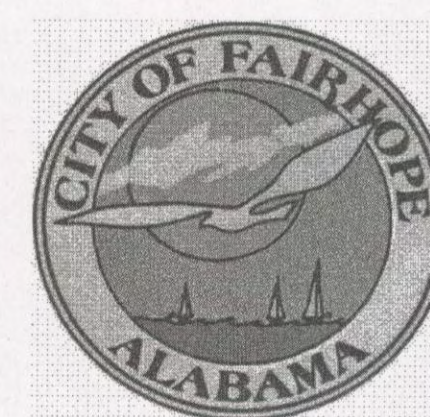


MAYOR
KARIN WILSON

COUNCIL MEMBERS

KEVIN BOONE
JAY ROBINSON
JACK BURRELL
ROBERT BROWN
JIMMY CONYERS

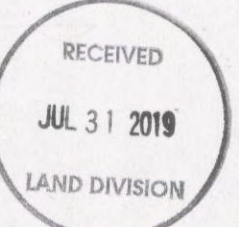
PUBLIC WORKS DIRECTOR
RICHARD JOHNSON P.E.



VICINITY MAP
NOT TO SCALE

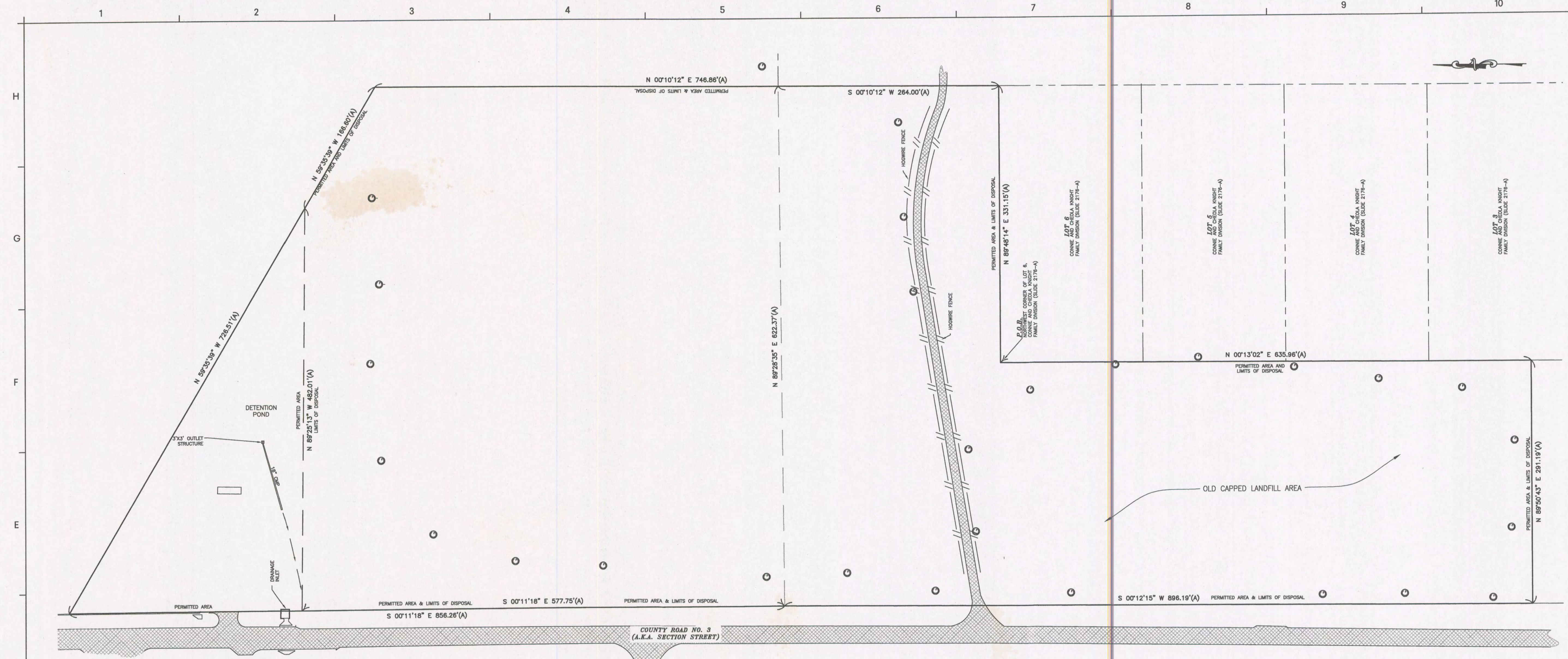
GMC

BUILDING COMMUNITIES



GOODWYN MILLS CAWOOD		
2039 MAIN STREET Daphne, AL 36526 Tel 251.626.2626 GMCNETWORK.COM		
SCOTT A. HUTCHINSON, P.E. ALA. REG. NO. 21830		
APPROVED:	DATE:	

P:\CMOB190093-FAIRHOPE LANDFILL\GIS\MAPS\LANDFILL-190093-TITLE.dwg



DRAWING FILE: D:\PROJECTS\2019\FAIRHOPE\LANDFILL\DESIGN\LANDFILL-EXISTING CONDITIONS.dwg
 PLOT FILE: 08/26/2019 10:00am

GENERAL SURVEYOR'S NOTES

- SOURCES OF INFORMATION USED TO FACILITATE THIS SURVEY WERE PREVIOUS SURVEYS BY THIS AND OTHER FIRMS, THE RECORDED SUBDIVISION PLAT, AND/OR OTHER RECORDED DOCUMENTS SHOWN HEREON.
- NO TITLE SEARCH, TITLE OPINION OR ABSTRACT WAS PERFORMED BY THIS FIRM. THERE MAY BE DEEDS OF RECORD, UNRECORDED DEEDS, EASEMENTS, RIGHT-OF-WAYS, OR OTHER INSTRUMENTS OF RECORD WHICH COULD AFFECT THE BOUNDARIES OF THIS PROPERTY THAT WERE NOT FURNISHED AT TIME OF SURVEY.
- FIELD WORK FOR THIS SURVEY WAS COMPLETED ON 08/20/2019.
- ALL BEARINGS ARE BASED ON NORTH AMERICAN DATUM 1983, ALABAMA WEST ZONE, STATE PLANE GRID NORTH; DERIVED BY GLOBAL POSITIONING SYSTEM OBSERVATION; ALL DISTANCES SHOWN ARE GROUND DISTANCES. ALL MEASUREMENTS WERE MADE IN ACCORDANCE WITH U.S. STANDARD FEET.
- THE SURVEYED PROPERTY IS LOCATED WITHIN AN AREA HAVING A ZONE DESIGNATION OF "X" BY THE FEDERAL EMERGENCY MANAGEMENT AGENCY (FEMA), AS SCALED FROM FLOOD INSURANCE RATE MAP NO. 01003C0644L, WITH A REVISED DATE OF IDENTIFICATION OF JULY 17, 2007, FOR COMMUNITY NO. 01006, IN BALDWIN COUNTY, STATE OF ALABAMA.
- THIS IS A SPECIFIC PURPOSE SURVEY TO DESCRIBE AN AREA FOR A LANDFILL PERMIT.
- THE SURVEYED PROPERTY LIES WITHIN SECTION 20, TOWNSHIP 6 SOUTH, RANGE 2 EAST.

PERMITTED AREA DESCRIPTION

BEGINNING AT A 1/2" IRON REBAR WITH ILLEGIBLE CAP AT THE NORTHWEST CORNER OF LOT 6, CONNIE AND CHEOLA KNIGHT FAMILY DIVISION, AS SHOWN ON PLAT THEREOF RECORDED ON SLIDE 2178-A IN PROBATE RECORDS, BALDWIN COUNTY, ALABAMA; THENCE RUN NORTH 89°48'14" EAST A DISTANCE OF 331.15 FEET TO A 1/2" IRON REBAR; THENCE RUN NORTH 00°10'12" EAST A DISTANCE OF 746.86 FEET TO A POINT; THENCE RUN NORTH 59°35'39" WEST A DISTANCE OF 726.51 FEET, MORE OR LESS, TO A POINT ON THE EAST RIGHT-OF-WAY OF COUNTY ROAD NO. 3 (ALSO KNOWN AS SECTION STREET); THENCE RUN SOUTH 00°11'18" EAST ALONG SAID EAST RIGHT-OF-WAY A DISTANCE OF 856.26 FEET TO A 3" CONCRETE MONUMENT; THENCE RUN SOUTH 00°12'15" WEST ALONG SAID EAST RIGHT-OF-WAY A DISTANCE OF 896.19 FEET TO A 1/2" IRON REBAR WITH CAP (CA#092); THENCE LEAVING SAID EAST RIGHT-OF-WAY NORTH 89°50'43" EAST A DISTANCE OF 291.19 FEET TO A 1/2" IRON REBAR WITH CAP (CA#092); THENCE RUN NORTH 00°13'02" EAST A DISTANCE OF 635.96 FEET TO THE POINT OF BEGINNING; SAID DESCRIBED AREA CONTAINING 17.59 ACRES, MORE OR LESS.

LIMITS OF DISPOSAL DESCRIPTION

BEGINNING AT A 1/2" IRON REBAR WITH ILLEGIBLE CAP AT THE NORTHWEST CORNER OF LOT 6, CONNIE AND CHEOLA KNIGHT FAMILY DIVISION, AS SHOWN ON PLAT THEREOF RECORDED ON SLIDE 2178-A IN PROBATE RECORDS, BALDWIN COUNTY, ALABAMA; THENCE RUN NORTH 89°48'14" EAST A DISTANCE OF 331.15 FEET TO A 1/2" IRON REBAR; THENCE RUN NORTH 00°10'12" EAST A DISTANCE OF 746.86 FEET TO A POINT; THENCE RUN NORTH 59°35'39" WEST A DISTANCE OF 166.60 FEET TO A POINT; THENCE RUN NORTH 89°25'13" WEST A DISTANCE OF 482.01 FEET, MORE OR LESS, TO A POINT ON THE EAST RIGHT-OF-WAY OF COUNTY ROAD NO. 3 (ALSO KNOWN AS SECTION STREET); THENCE RUN SOUTH 00°11'18" EAST ALONG SAID EAST RIGHT-OF-WAY A DISTANCE OF 577.75 FEET TO A 3" CONCRETE MONUMENT; THENCE RUN SOUTH 00°12'15" WEST ALONG SAID EAST RIGHT-OF-WAY A DISTANCE OF 896.19 FEET TO A 1/2" IRON REBAR WITH CAP (CA#092); THENCE LEAVING SAID EAST RIGHT-OF-WAY NORTH 89°50'43" EAST A DISTANCE OF 291.19 FEET TO A 1/2" IRON REBAR WITH CAP (CA#092); THENCE RUN NORTH 00°13'02" EAST A DISTANCE OF 635.96 FEET TO THE POINT OF BEGINNING; SAID DESCRIBED AREA CONTAINING 16.05 ACRES, MORE OR LESS.

LEGEND

P.O.C. POINT OF COMMENCEMENT	TELEPHONE BOX (VAULT)
P.O.B. POINT OF BEGINNING	WATER METER
(A) ACTUAL	SANITARY SEWER VALVE
(R) RECORD DEED	WATER VALVE
(P) PLAT OF RECORD	GAS VALVE
(C) COMPUTED	TRANSFORMER BOX
OTF OPEN TOP IRON PIPE FOUND	LIGHT POLE
IFP IRON PIN FOUND	CABLE TV BOX
CTF CRIMP TOP IRON PIPE FOUND	ELECTRIC BOX
CRF CAPPED REBAR FOUND	ELECTRIC PANEL
RFB 1/2" REBAR FOUND	IRRIGATION CONTROL VALVE
CRS 1/2" CAPPED REBAR SET STAMPED CA#604	SANITARY SEWER MANHOLE
CMF CONCRETE MONUMENT FOUND	STORM DRAIN MANHOLE
CMS CONCRETE MONUMENT SET	TELEPHONE MANHOLE
LS# LICENSED PROFESSIONAL SURVEYOR'S NUMBER	SEWER CLEANOUT
CA# CERTIFICATE OF AUTHORIZATION NUMBER	SEWER GRINDER PUMP
(DIST) DISTURBED	GREASE TRAP
(REF) REFERENCE CORNER SET ON LINE	FLAG POLE
(UNR) UNREADABLE	GAS LINE SIGN MARKER
INST # INSTRUMENT NUMBER	TELEPHONE SIGN MARKER
SECT. SECTION	WATERLINE MARKER
T- TOWNSHIP	FIBER OPTIC LINE MARKER
R- RANGE	(EX) EXCEPTION
PP POWER POLE	FO UNDERGROUND FIBER OPTIC LINE
GW GUY WIRE	OE OVERHEAD ELECTRIC
R/W RIGHT-OF-WAY	BE BURIED ELECTRIC LINE
R.O.W. RIGHT-OF-WAY	UT UNDERGROUND TELEPHONE LINE
FI FIRE HYDRANT	S UNDERGROUND SEWER LINE
SI SIGN	U UNDERGROUND WATERLINE
TE TELEPHONE PEDESTAL	G UNDERGROUND GAS LINE
EM ELECTRIC METER BOX	TV UNDERGROUND TELEVISION
AC AIR CONDITIONER	SP SPOT GRADE ELEVATIONS
JB JUNCTION BOX (VAULT)	CM CORRUGATED METAL PIPE
EL/ELEV ELEVATION	RCP REINFORCED CONCRETE PIPE
INV INVERT	CPP CORRUGATED PLASTIC PIPE
GW GAS MONITORING WELL	

SURVEYOR'S CERTIFICATION

I HEREBY STATE THAT ALL PARTS OF THIS SURVEY AND DRAWING HAVE BEEN COMPLETED IN ACCORDANCE WITH THE CURRENT REQUIREMENTS OF THE STANDARDS OF PRACTICE FOR LAND SURVEYING IN THE STATE OF ALABAMA TO THE BEST OF MY KNOWLEDGE, INFORMATION AND BELIEF.

Stuart L. Smith 7/26/2019
 STUART L. SMITH, PLS DATE
 ALABAMA LICENSE NUMBER 27403

*DRAWING IS INVALID WITHOUT SIGNATURE & SEAL OF A LICENSED LAND SURVEYOR

60 0 60 120
 SCALE: 1"=60'

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JULY	2019

DRAWN BY: J.H.P.
 CHECKED BY: S.A.H.

CITY OF FAIRHOPE
 C & D LANDFILL
 FAIRHOPE, ALABAMA

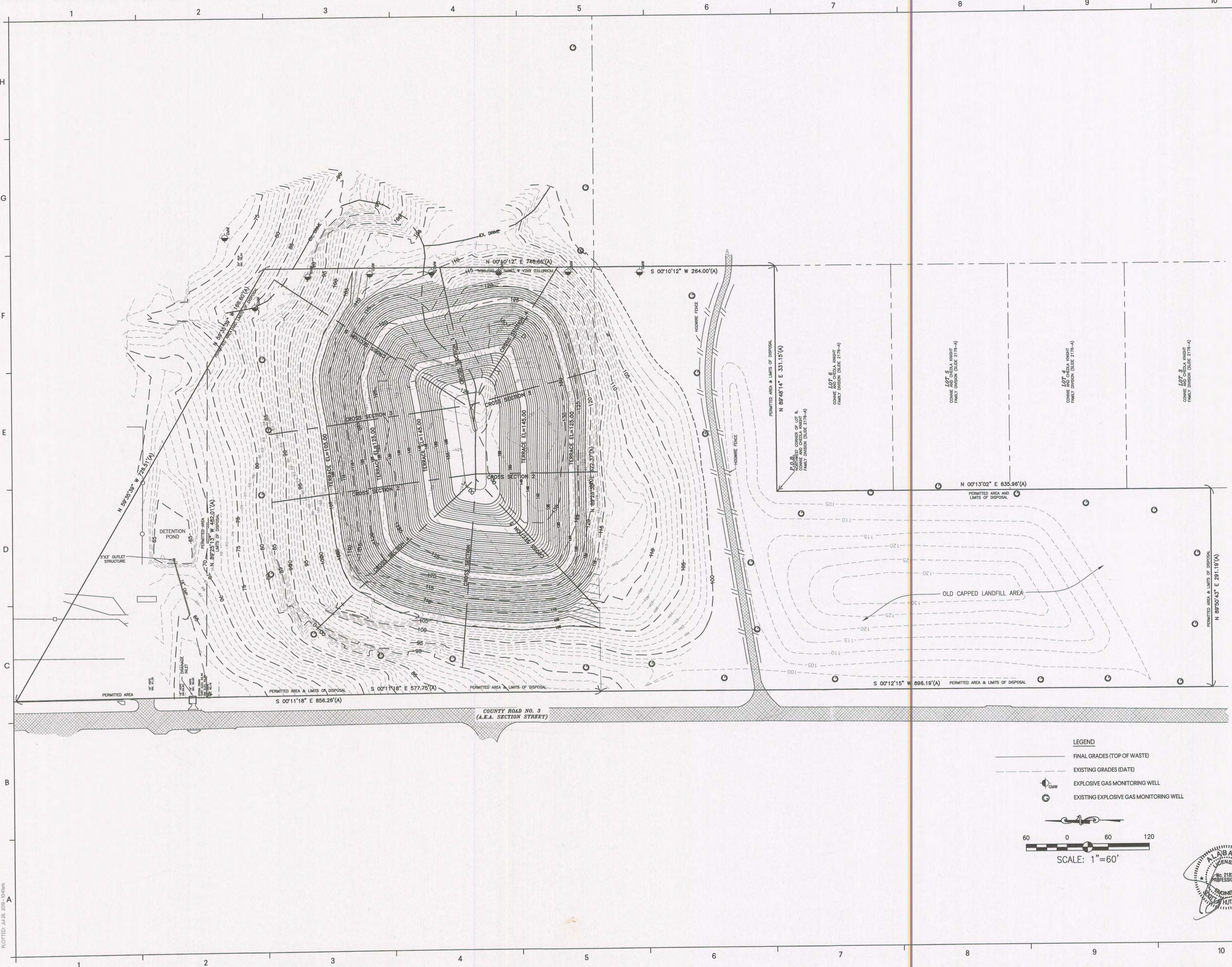
GMC Project: CMOB190093

EXISTING CONDITIONS

C2.01

sheet 2 of 9

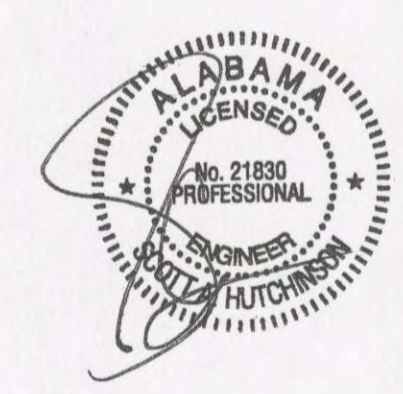
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PLOTTED: JUL 26, 2019 - 10:41am



LEGEND

- FINAL GRADES (TOP OF WASTE)
- - - EXISTING GRADES (DATE)
- ⊕_{GMW} EXPLOSIVE GAS MONITORING WELL
- ⊙ EXISTING EXPLOSIVE GAS MONITORING WELL

60 0 60 120
SCALE: 1"=60'



**CITY OF FAIRHOPE
C & D LANDFILL
FAIRHOPE, ALABAMA**

JULY 2019

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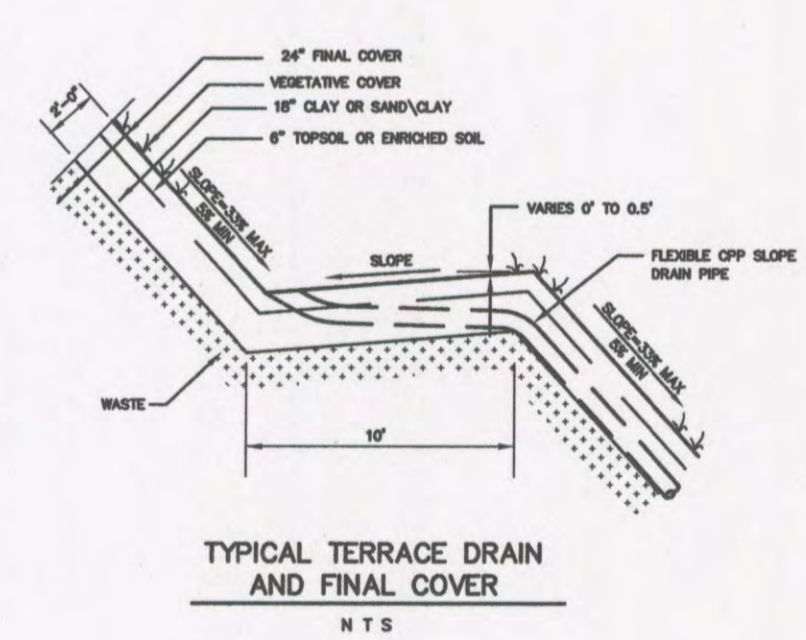
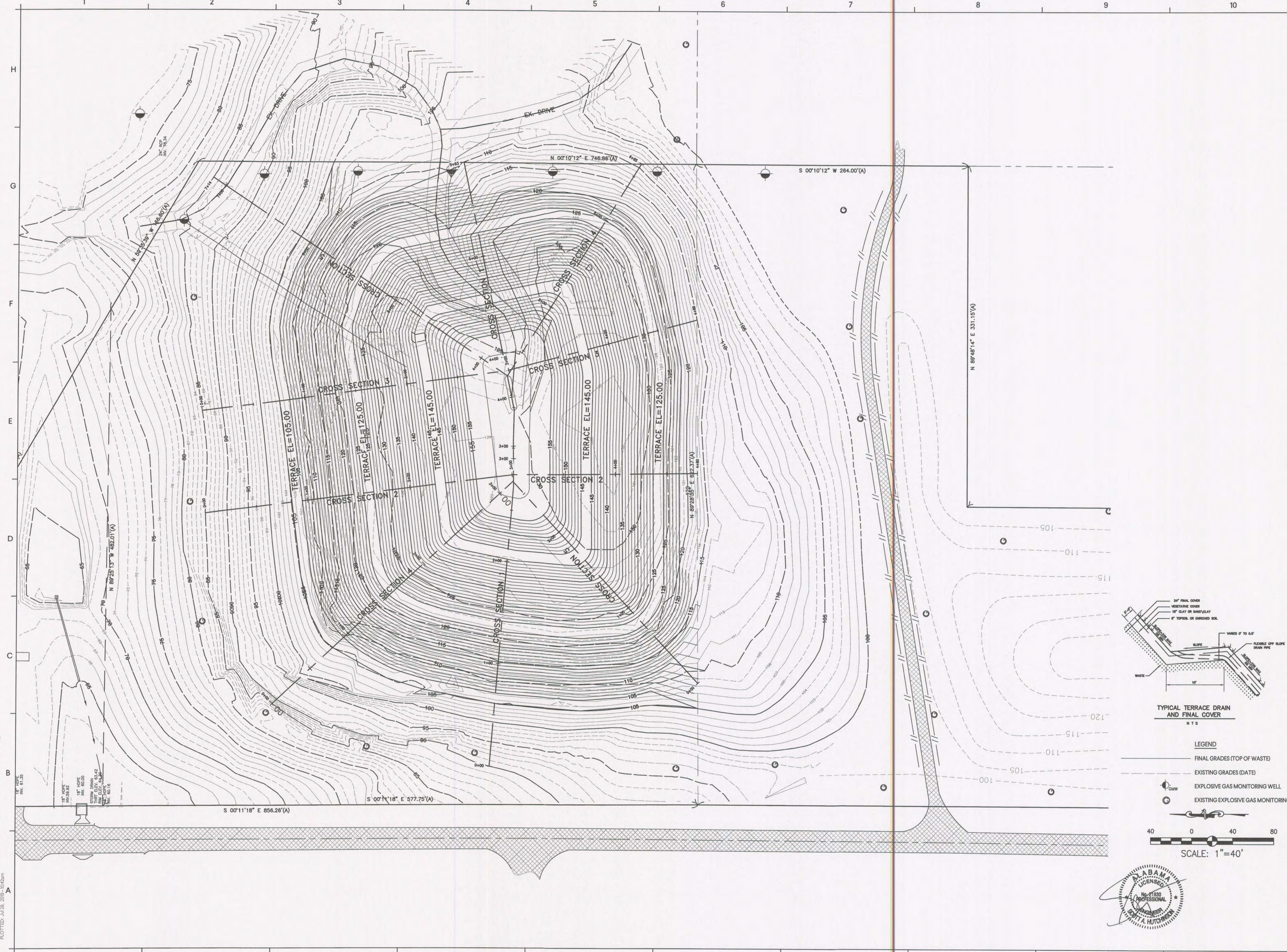


CLOSURE PLAN

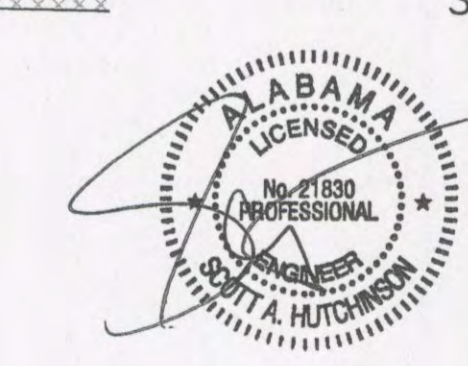
C3.01
Sheet 3 of 9

GMC Project: CMOB190093

DRAWN BY: J.H.P.
CHECKED BY: S.A.H.



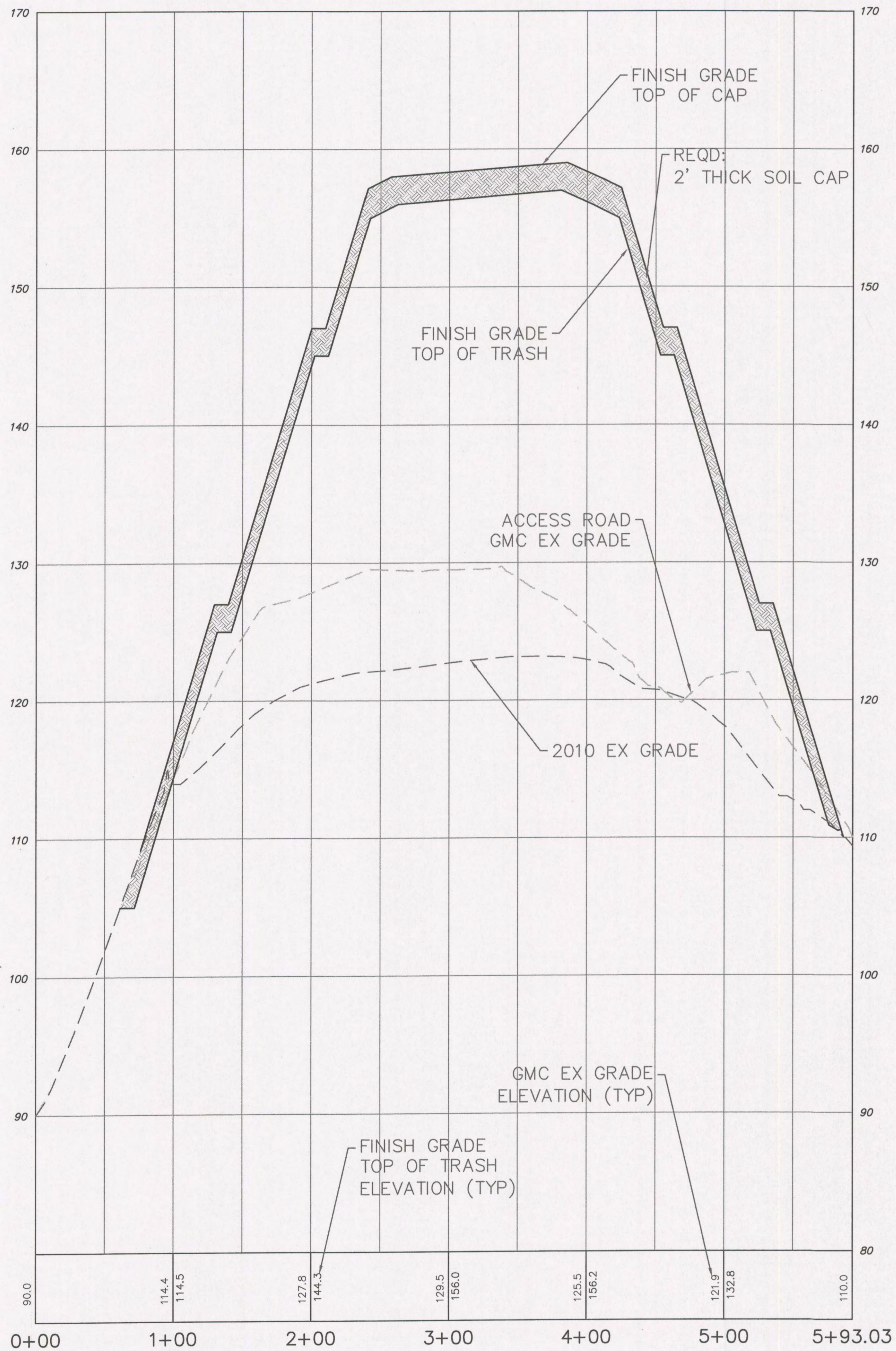
- LEGEND**
- FINAL GRADES (TOP OF WASTE)
 - - - EXISTING GRADES (DATE)
 - G.M.W. EXPLOSIVE GAS MONITORING WELL
 - EXISTING EXPLOSIVE GAS MONITORING WELL
- 40 0 40 80
- SCALE: 1"=40'



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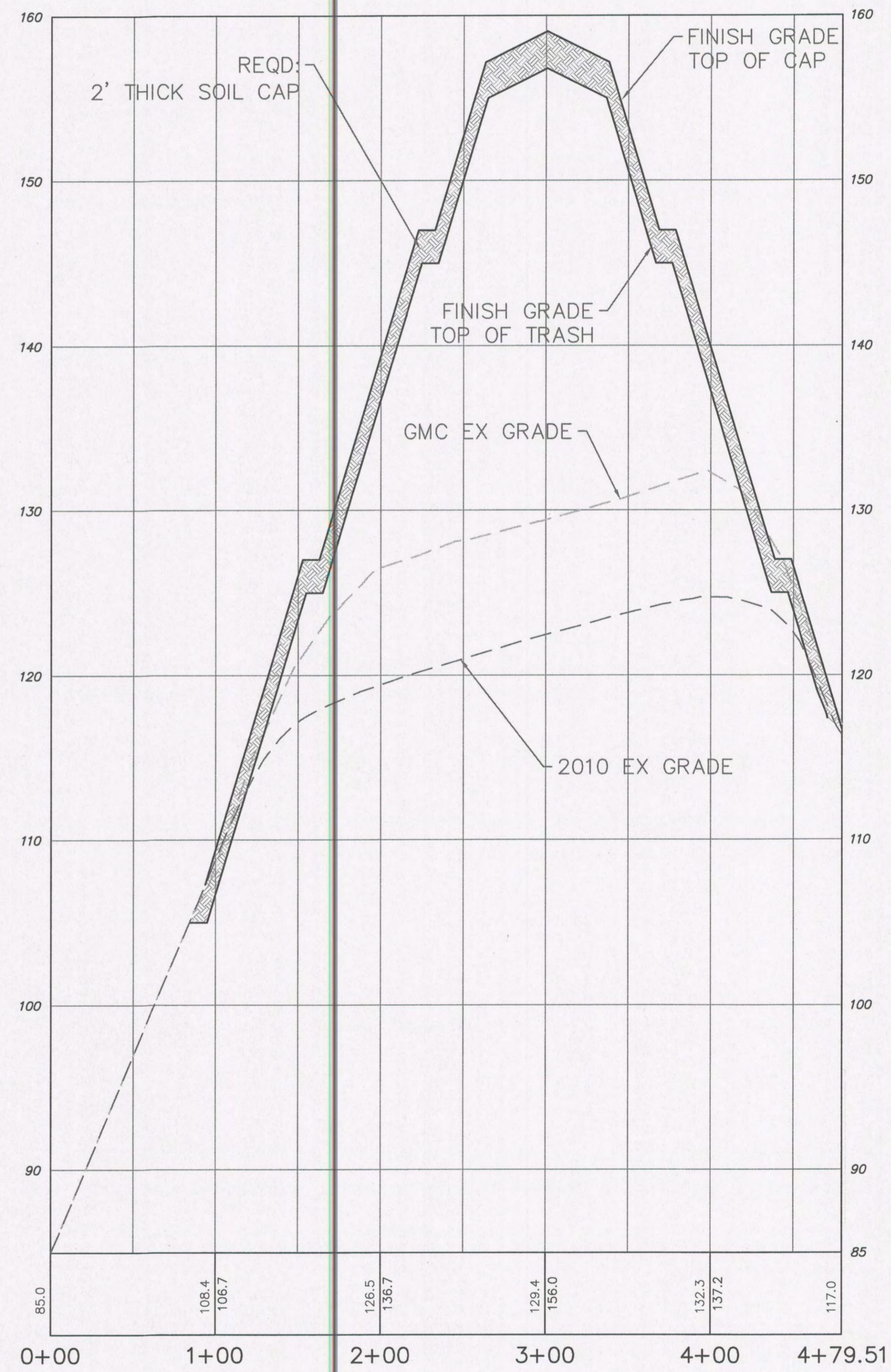
<h1>GMC</h1>		2039 Main Street Daphne, AL 36526 T 251.626.2626 GMCNETWORK.COM
CITY OF FAIRHOPE C & D LANDFILL FAIRHOPE, ALABAMA		GMC Project: CMOB190093
CLOSURE PLAN		C3.02 Sheet 4 of 9
DRAWN BY: L.J.H.P. CHECKED BY: J.S.A.H.		

SECTION 1 PROFILE



SCALE
HORIZONTAL 1" = 50'
VERTICAL 1" = 5'

SECTION 2 PROFILE



SCALE
HORIZONTAL 1" = 50'
VERTICAL 1" = 5'



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C & D LANDFILL
FAIRHOPE, ALABAMA

GMC Project: CM0B190093

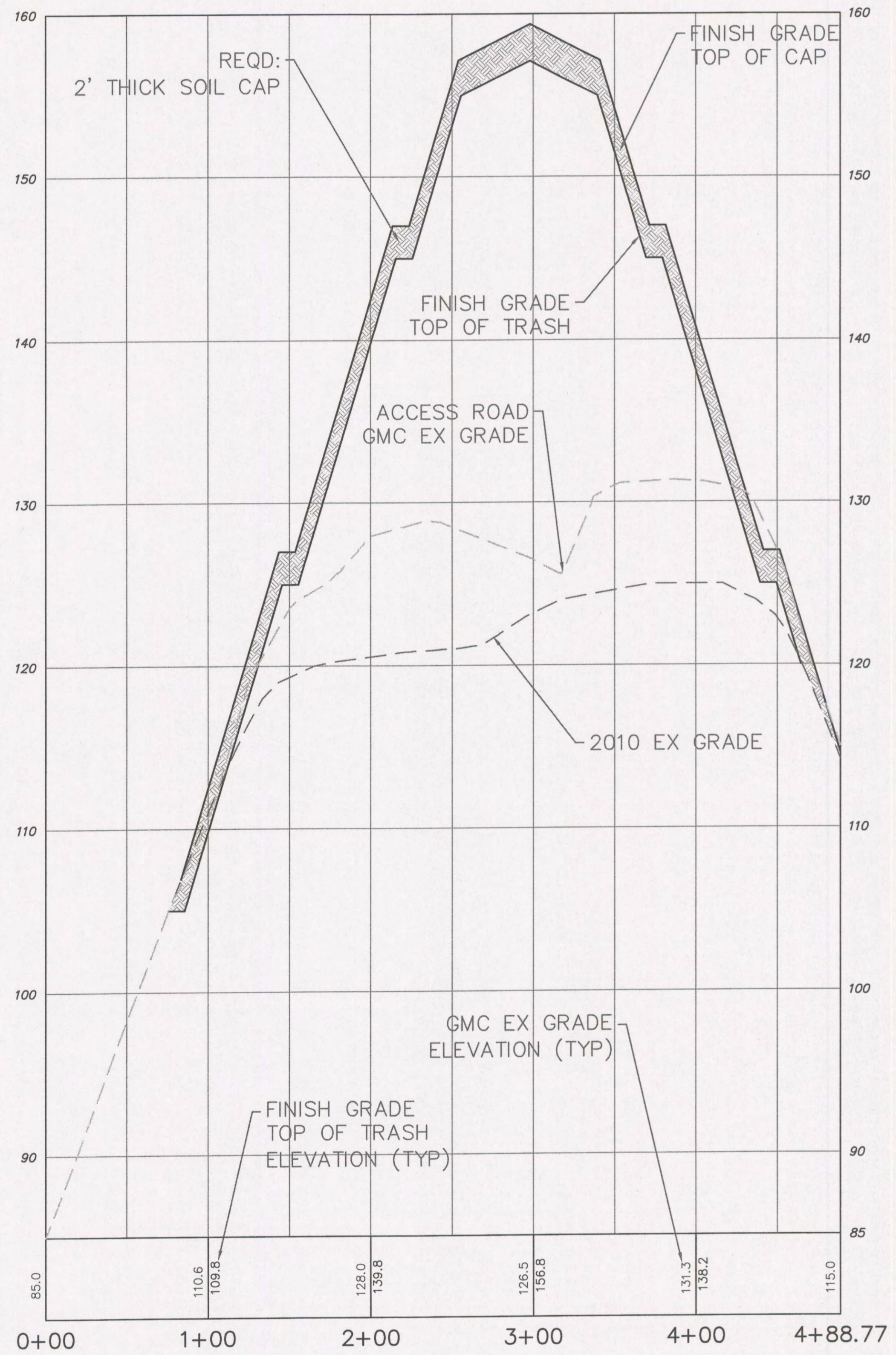


CROSS SECTIONS 1 & 2

C4.01
Sheet 5 of 9

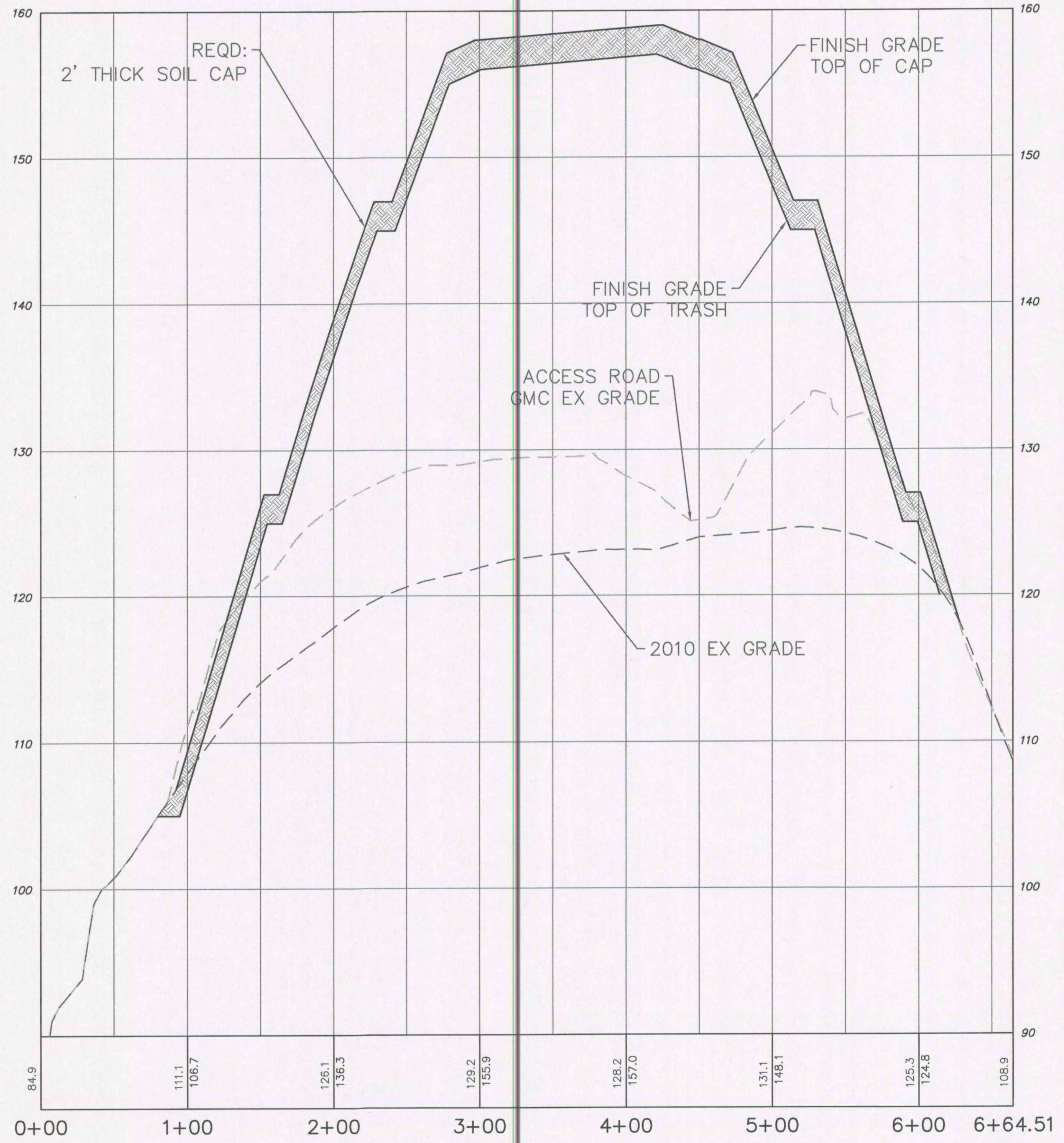
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PLOTTER: JHP, 2019

SECTION 3 PROFILE



SCALE
HORIZONTAL 1" = 50'
VERTICAL 1" = 5'

SECTION 4 PROFILE



SCALE
HORIZONTAL 1" = 50'
VERTICAL 1" = 5'



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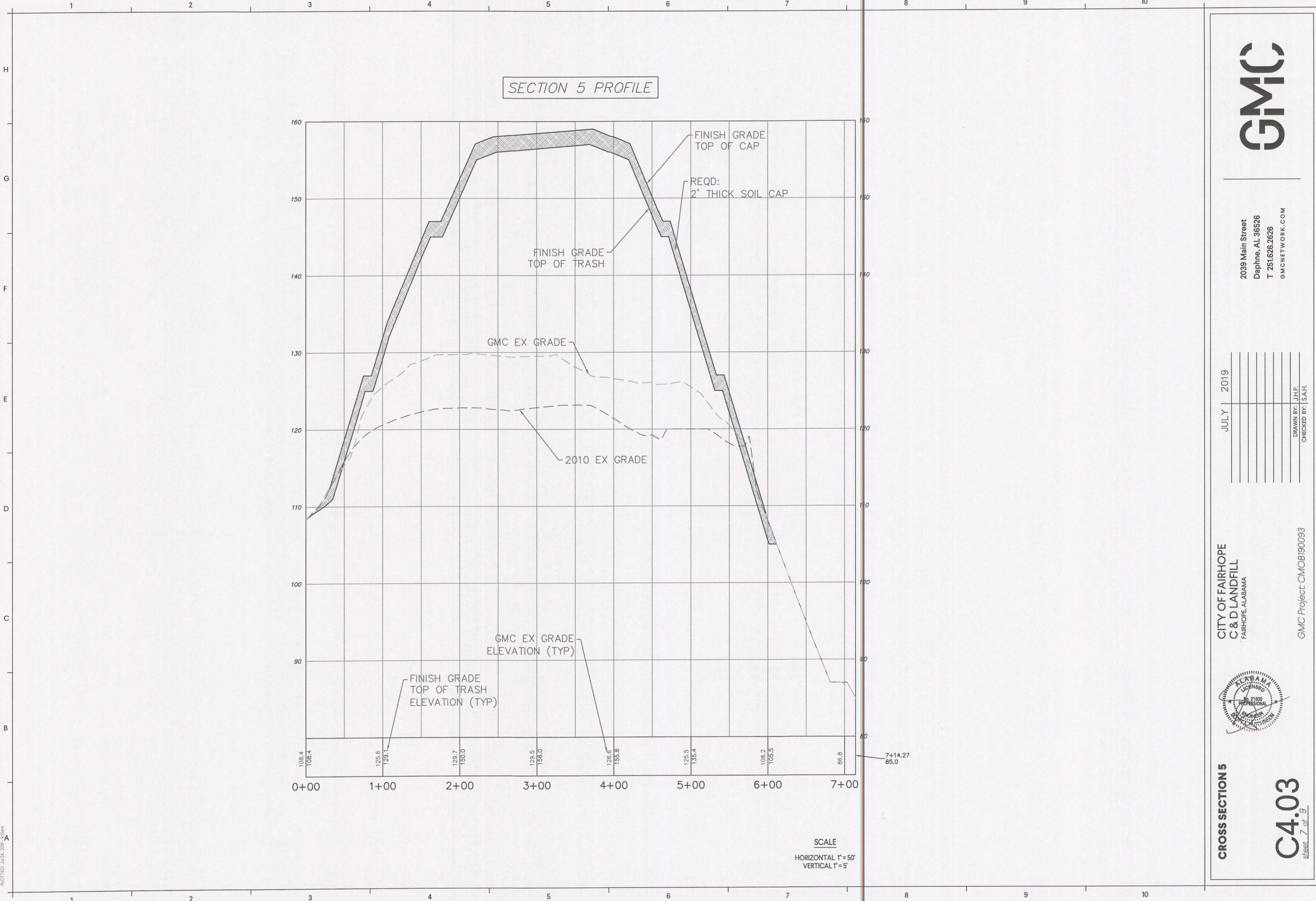
GMC Project: CMOB190093



CROSS SECTIONS 3 & 4

C4.02
Sheet 6 of 9

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PLOTTED: JUL 24, 2019

SCALE
HORIZONTAL 1" = 50'
VERTICAL 1" = 5'

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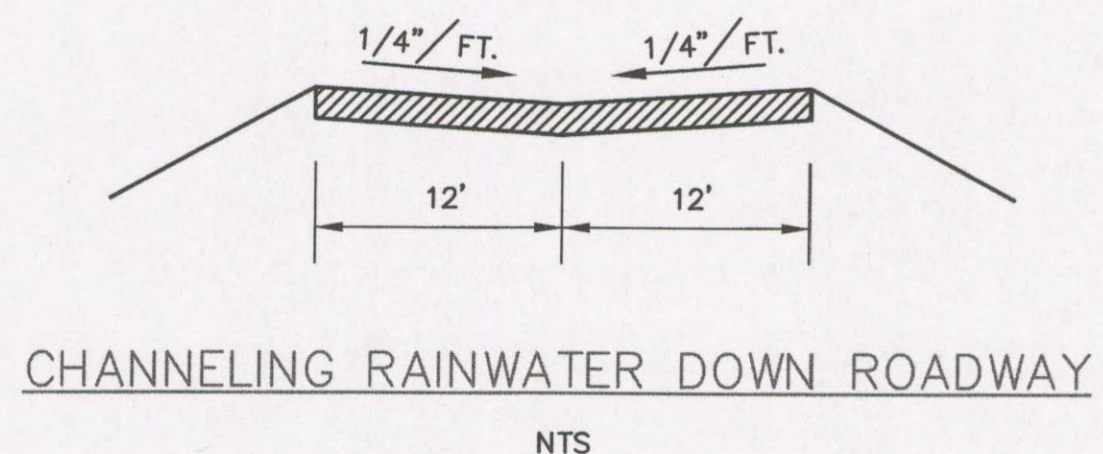
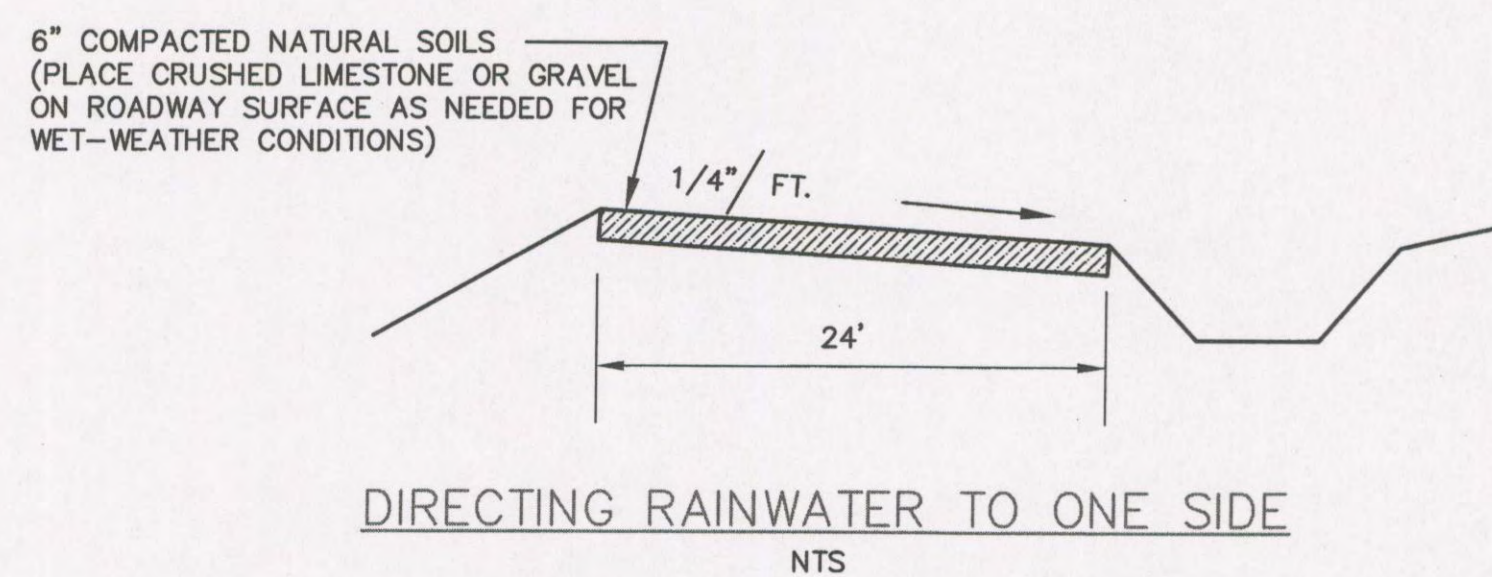
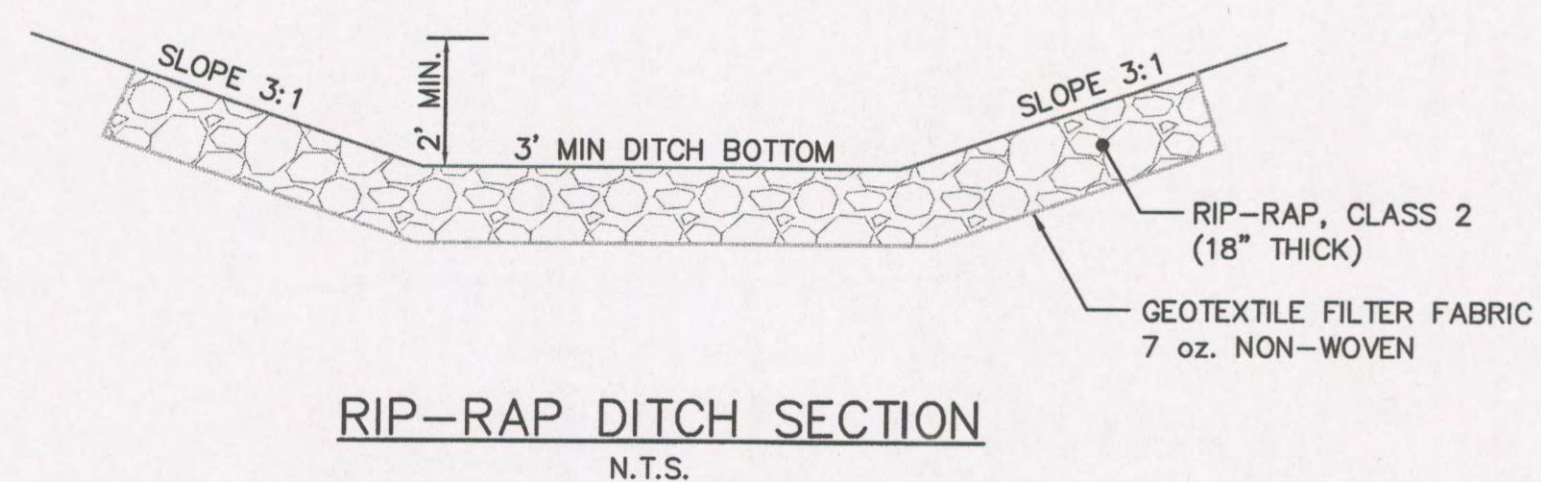
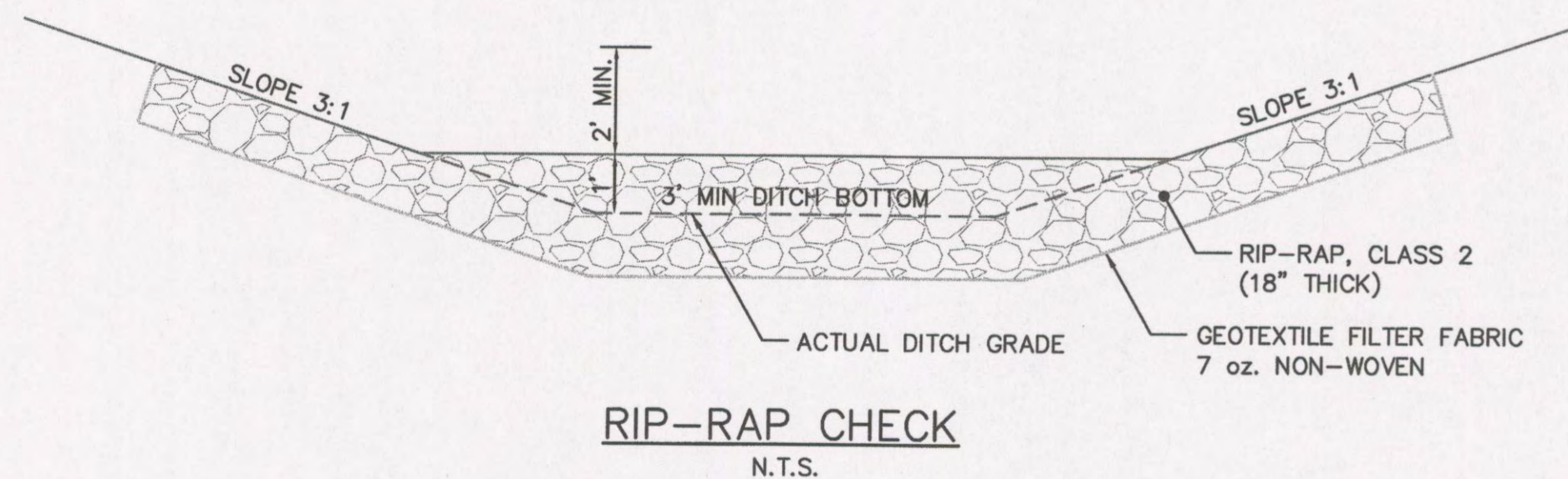
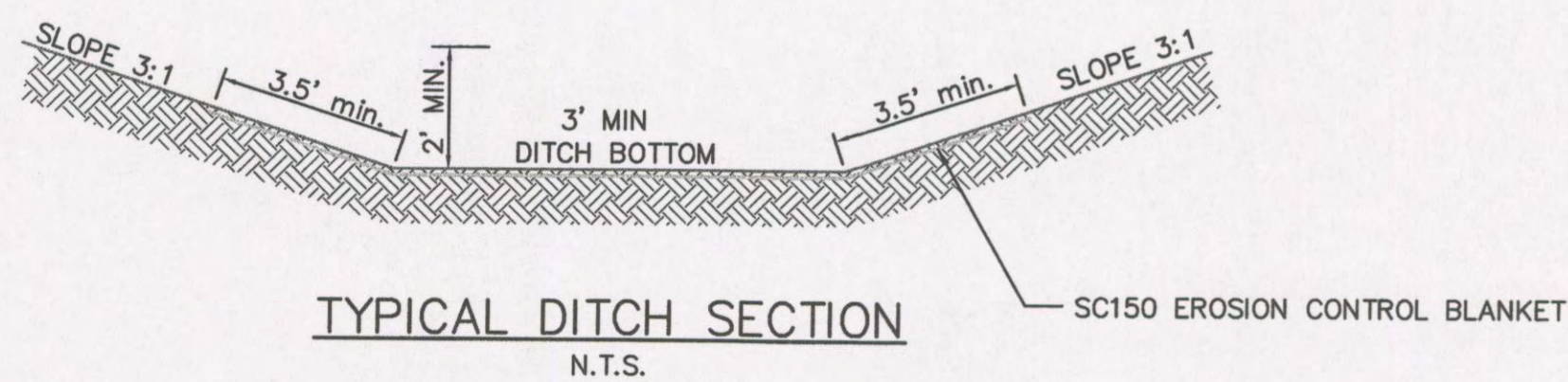
GMC Project: CMOB190093



CROSS SECTION 5

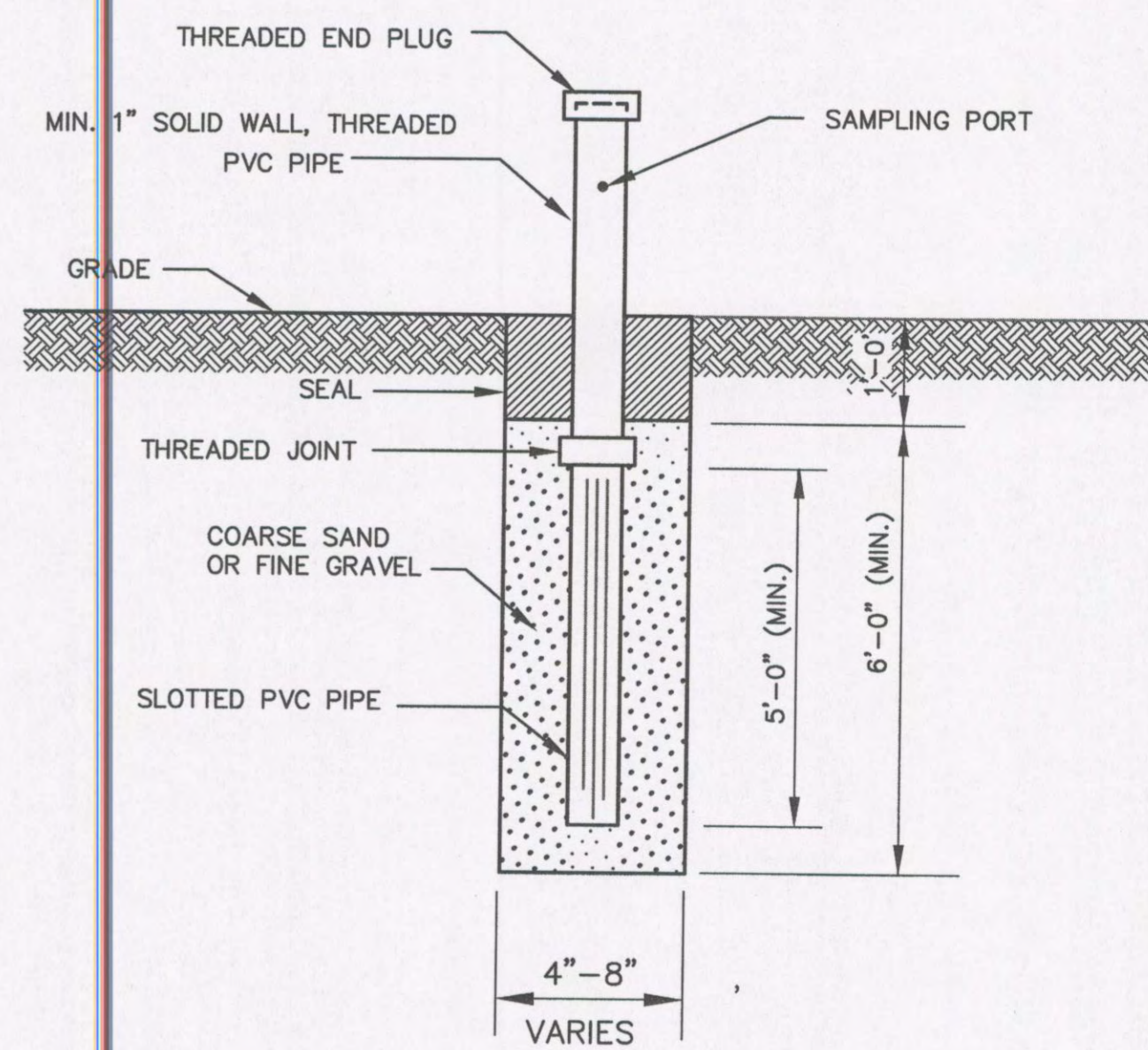
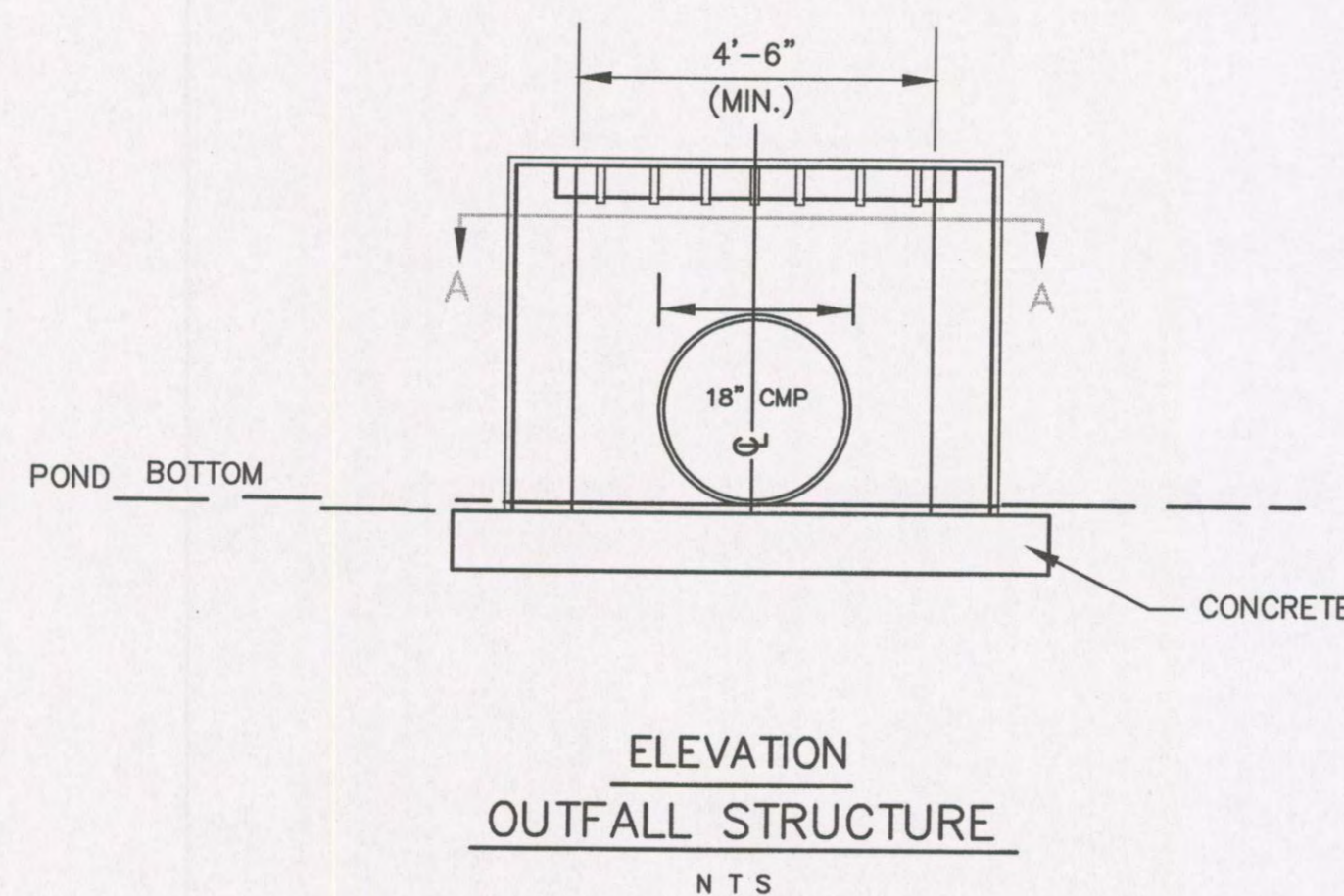
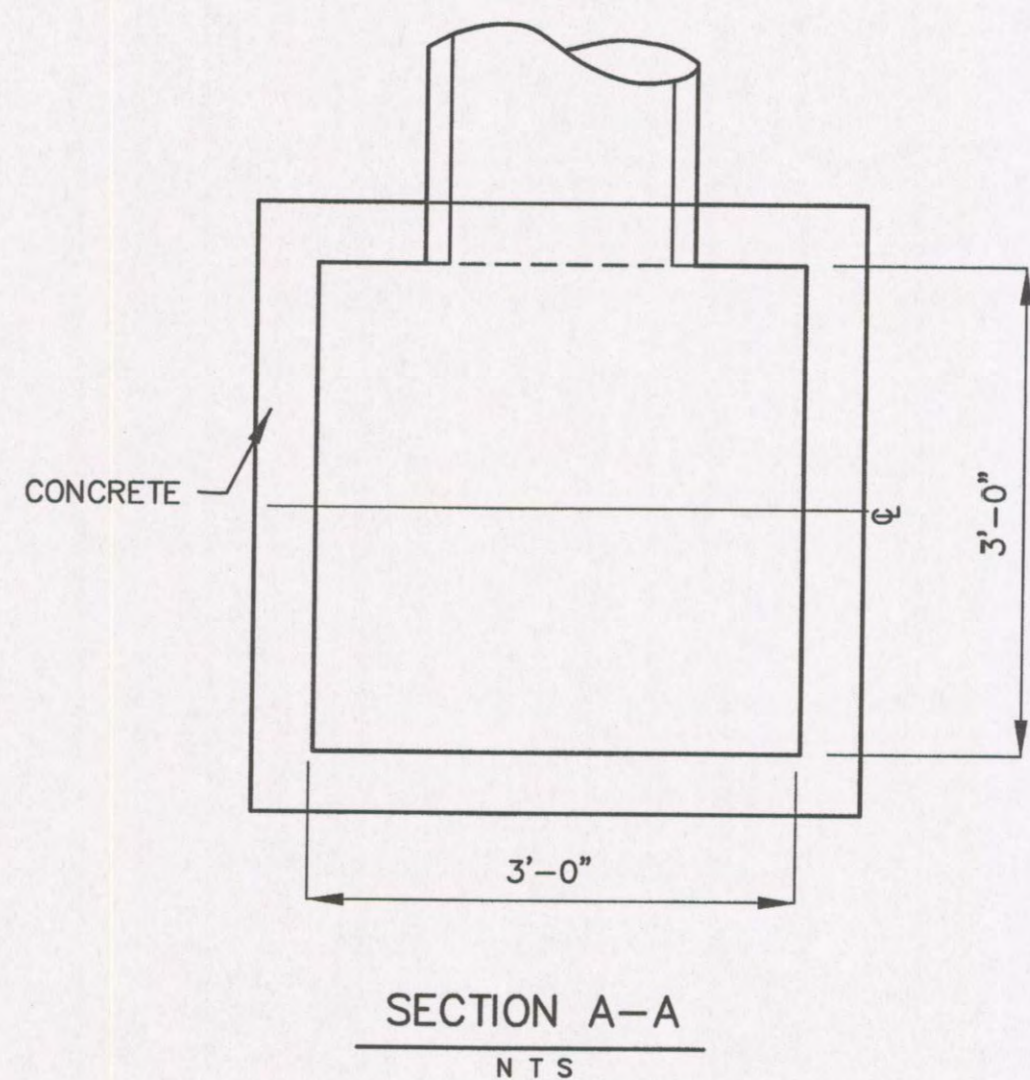
C4.03

Sheet 7 of 9



NOTE: MAXIMUM DESIGN SPEED OF ON-SITE ROADS IS 10 MPH.

TYPICAL ROADWAY SECTIONS



NOTE: A CONTINUOUS LENGTH OF SOLID WALL PVC PIPE, WITH SLOTS OR HOLES CUT IN THE LOWER SECTION, MAY BE USED IN PLACE OF THE THREADED PIPE. DO NOT USE GLUE IN CONSTRUCTION OF GAS MONITOR STATIONS. THE GLUE COULD AFFECT MONITOR DATA.

EXPLOSIVE GAS MONITORING WELL
N.T.S.

GENERAL NOTES

GAS MANAGEMENT

THE GENERAL LOCATION OF PERMANENT GAS PROBES AROUND THE PERIMETER OF THE SITE ARE SHOWN HEREIN. THESE POINTS HAVE BEEN LOCATED SO THAT THERE IS NO MORE THAN ONE HUNDRED (100) FEET BETWEEN THE POINTS WHERE STRUCTURES ARE LOCATED WITHIN ONE THOUSAND (1,000) FEET OF THE BOUNDARY AND NO MORE THAN THREE HUNDRED (300) FEET APART IN OTHER AREAS. SHOULD NEW STRUCTURES BE BUILT NEAR THE FACILITY, ADDITIONAL GAS PROBES SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE ABOVE CRITERIA.

1. DRILL OR DIG A HOLE TO A MINIMUM DEPTH OF APPROXIMATELY SEVEN (7) FEET.
2. PLACE A PVC PIPE WITHIN THE BORE HOLE. THE LOWER FIVE (5) FOOT SECTION OF PIPE SHOULD BE SLOTTED. THE PIPE SHOULD BE OF SUFFICIENT LENGTH TO EXTEND THREE (3') TO FOUR (4') FEET ABOVE THE GROUND SO AS TO BE EASILY VISIBLE AND PREVENT INADVERTENT DAMAGE DURING SITE MAINTENANCE.
3. BACKFILL THE HOLE WITH COARSE SAND OR FINE GRAVEL TO WITHIN ONE (1') FOOT OF GROUND ELEVATION.
4. PLACE A SEAL OF CONCRETE OR OTHER SUITABLE MATERIAL IN THE FINAL ONE (1') FOOT OF THE BOREHOLE.
5. CAP THE PVC PIPE WITH THREADED END PLUG.
6. DRILL SAMPLING PORT IN RISER PIPE AND PLACE REMOVABLE PLUG IN PORT.
7. PERMANENTLY MARK THE CONCRETE AND RISER WITH IDENTIFICATION CODE.

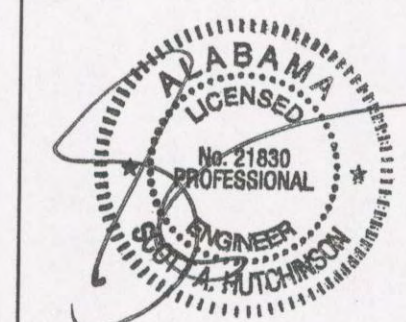


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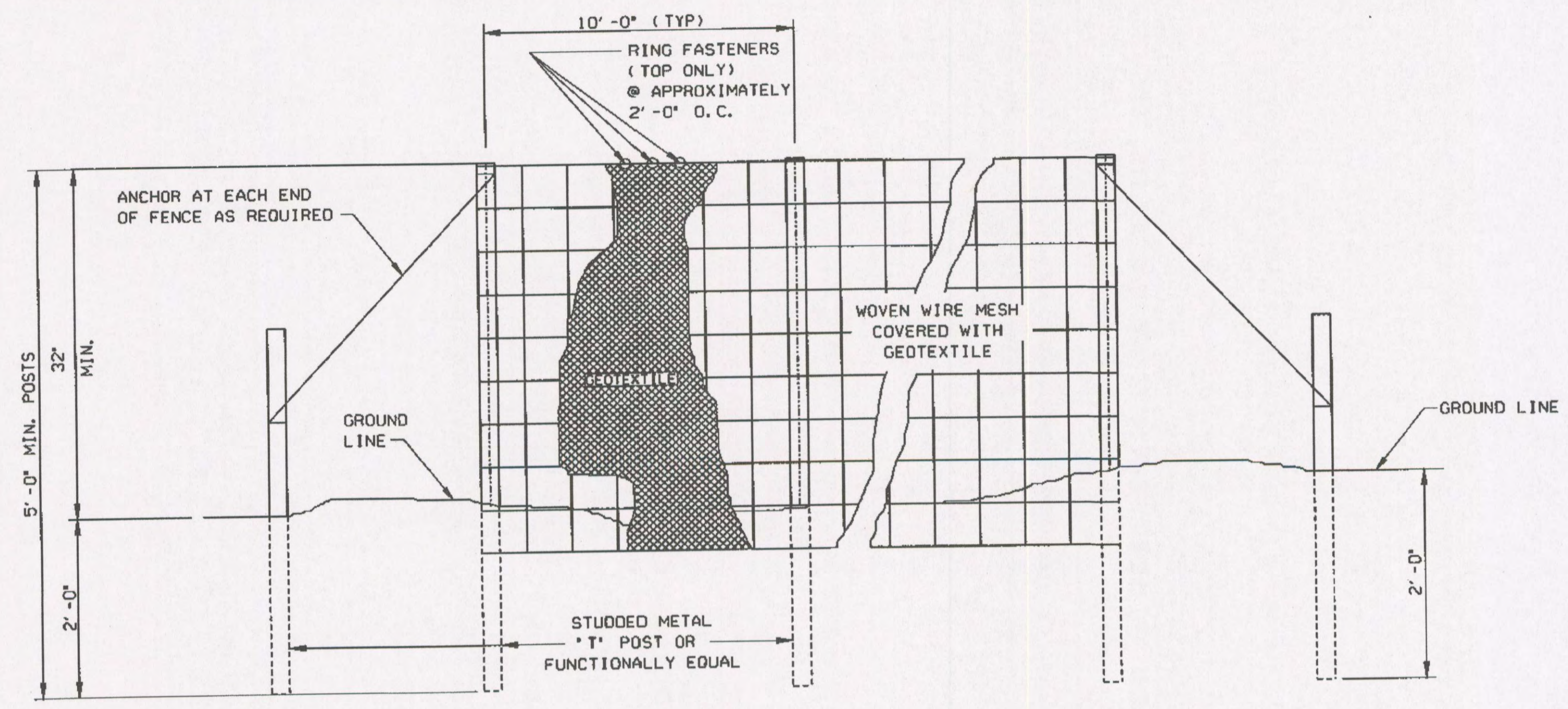
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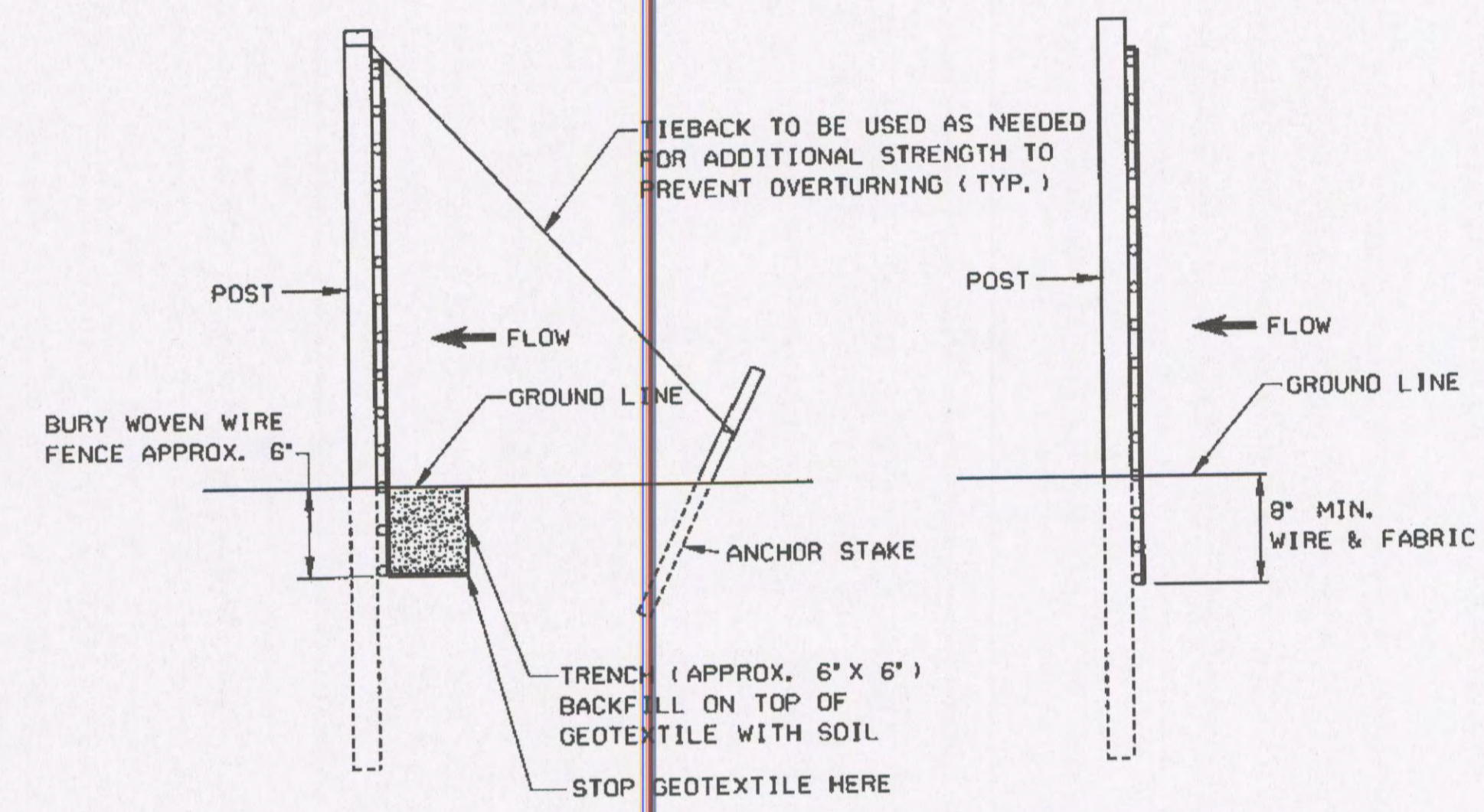
CIVIL CONSTRUCTION
DETAILS

C5.01
Sheet 8 of 9

REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO



ELEVATION VIEW

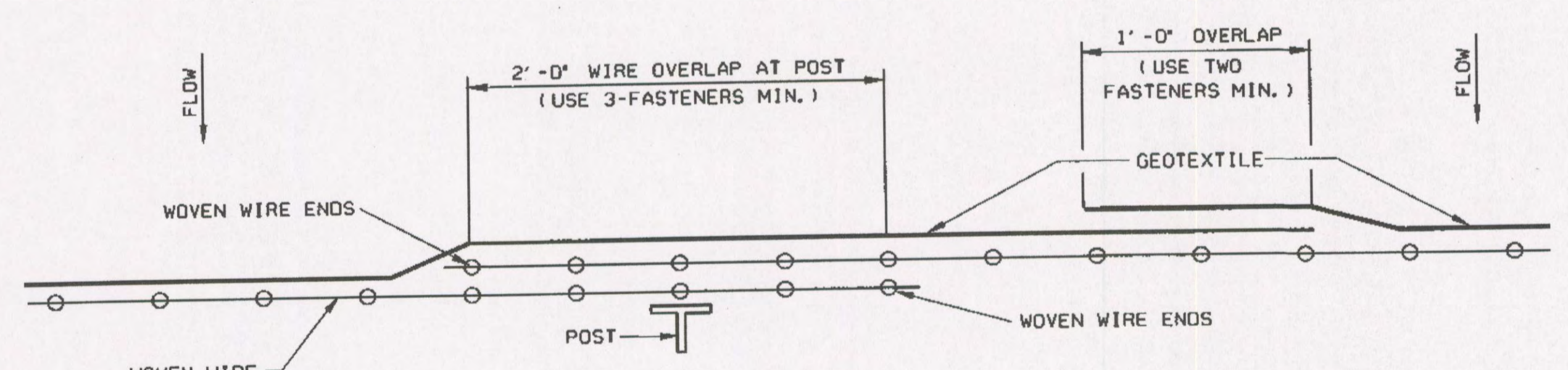


METHOD I

METHOD II
MECHANICAL INSTALLATION

SIDE VIEW

- NOTES:
- METHOD II FENCE INSTALLATION ALSO TO INCLUDE ANCHORS AND TIEBACKS AS REQUIRED.
 - SILT FENCE SHALL BE USED IN AREAS WHERE FLOW IS LOW TO MODERATE OR AS DIRECTED BY THE ENGINEER.
 - SILT FENCES ARE TEMPORARY SEDIMENT CONTROL ITEMS THAT SHALL BE ERECTED DOWN GRADE OF ERODIBLE AREAS SUCH AS NEWLY GRADED FILL SLOPES AND ADJACENT TO STREAMS AND CHANNELS.
 - SILT FENCE SHOULD BE PLACED WELL INSIDE RIGHT-OF-WAY AND ALONG EDGE OF CLEARING LIMITS. THIS WILL ALLOW ROOM FOR ADDITIONAL BEST MANAGEMENT PRACTICES SUCH AS VEGETATED BUFFERS.
 - WHEREVER POSSIBLE SILT FENCES SHALL BE CONSTRUCTED ACROSS A LEVEL AREA IN THE SHAPE OF A SMILE. THIS AIDS IN PONDING OF RUNOFF AND FACILITATES SEDIMENTATION.
 - THE CONTRACTOR MAY ELECT TO USE EITHER INSTALLATION METHOD I OR METHOD II.
 - METHOD II INSTALLATION SHALL BE ACCOMPLISHED USING AN IMPLEMENT THAT IS MANUFACTURED FOR THE APPLICATION AND PROVIDES A CONFIGURATION MEETING THE REQUIREMENTS OF THE DETAIL.
 - SEE ALDOT LIST II-3 FOR APPROVED SILT FENCE GEOTEXTILES.



PLAN VIEW
REQUIRED LAPPING

--SPECIFICATIONS--
CURRENT ALABAMA DEPARTMENT OF TRANSPORTATION

THIS DRAWING REPRESENTS DESIGNS PREPARED FOR USE BY THE ALABAMA DEPARTMENT OF TRANSPORTATION AND IS NOT TO BE COPIED, REPRODUCED, ALTERED, OR USED BY ANYONE OR ANY ORGANIZATION, WITHOUT THE EXPRESSED WRITTEN CONSENT OF THE ALABAMA DEPARTMENT OF TRANSPORTATION REPRESENTATIVE AUTHORIZED TO APPROVE THIS USE. ANYONE MAKING UNAUTHORIZED USE OF THIS DRAWING MAY BE PROSECUTED TO THE FULLEST EXTENT OF THE LAW.

<p>REVISIONS</p> <p>1. Revised Fence height and deleted (Type A) from the Silt Fence description on 07-12-07 by W.S.A.</p> <p>2. Revised Notes 2, 3, 4, 6 and added No. 6 on 09-02-11 by J.F.T.</p>	<p>ALABAMA DEPARTMENT OF TRANSPORTATION 1409 COLISEUM BOULEVARD MONTGOMERY, AL 36130-3050</p> <p>DESIGN BUREAU SPECIAL DRAWING</p> <p>DETAILS OF SILT FENCE INSTALLATION</p>
<p>DRAWN BY: _____</p> <p>DATE DRAWN: 2005</p>	<p>SPECIAL DRAWING NO: ESC-200 (SHEET 4 OF 4)</p> <p>INDEX NO: 1161-C</p>

NOT TO SCALE

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JULY 2019

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CHECKED BY: S.A.H.

CITY OF FAIRHOPE
C & D LANDFILL
FAIRHOPE, ALABAMA

GMC Project: CMOB190093

EROSION CONTROL DETAILS

C6.01
Sheet 9 of 9

DRAWING FILE: P:\C\CMOB190093-FAIRHOPE LANDFILL\DESIGN\PLANS\19-EROSION CONTROL DETAILS.dwg
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Goodwyn Mills Cawood

2039 Main Street
P.O. Box 1127
Daphne, AL 36526

T (251) 626-2626
F (251) 626-6934

www.gmcnetwork.com

Mr. Blake Holden
Alabama Department of Environmental Management
Post Office Box 301463
Montgomery, Alabama 36103-1463

RE: Fairhope Landfill

Dear Mr. Holden:

Please accept the following information to complete the renewal application:

1. Revised Form 305 with new acreages is attached.
2. On behalf of the City of Fairhope, we request a minor modification to the Solid Waste Disposal Facility Permit in order to update the permit drawings and add additional gas monitoring wells. Attached is the \$1,460⁰⁰ fee for the minor modification.
3. On behalf of the City of Fairhope, we request a variance from the 100 foot buffer due to the fact that waste has always been within 100 feet of the permitted boundary. Attached is the \$1,460⁰⁰ fee for the variance.
4. The sediment pond is capable of providing the necessary stormwater detention for the 50-year, 24-hour storm event. Please see the attached calculation sheet.

Thank you for your review of this application. Should you have any questions, please contact me at 251.380.8744.

Sincerely,

GOODWYN, MILLS & CAWOOD, INC.


Scott A. Hutchinson, P.E.
Vice-President, Engineering

/blg
Attachments

RECEIVED

DEC 23 2019

LAND DIVISION

Dale Linder

From: Richard Johnson
Sent: Monday, December 9, 2019 2:46 PM
To: Dale Linder
Subject: FW: Fairhope Landfill Permit Renewal

See below – worth every penny - RDJ

Richard D. Johnson, PE
Public Works Director
richard.johnson@fairhopeal.gov
Office: 251-929-0360
Cell: 251-423-7418

From: Scott Hutchinson <scott.hutchinson@gmcnetwork.com>
Sent: Monday, December 9, 2019 2:30 PM
To: Richard Johnson <richard.johnson@fairhopeal.gov>
Subject: Fairhope Landfill Permit Renewal

THIS EMAIL HAS BEEN SENT FROM AN EXTERNAL ADDRESS. PLEASE USE CAUTION WHEN CLICKING ON LINKS OR OPENING ATTACHMENTS.

Richard,

Per Blake Holden, the additional amount due to get a 10yr permit (instead of the 5yr) is \$2,700. It would definitely save money and I recommend it.

Best,

Scott Hutchinson, PE
Vice President, Engineering

C: 251-680-2555
D: 251-380-8744
E: scott.hutchinson@gmcnetwork.com

2039 Main Street
Daphne, AL 36526

Building Communities

GMC

SECTION III:

LANDFILL OPERATOR:

Name: (1) Richard Johnson (2) _____
 Address: PO Box 429 _____
Fairhope, AL 36533 _____
 Telephone: 251.990.2884 _____

SECTION IV:

CONTACT PERSON(S):

Name: (1) Richard Johnson (2) _____
 Address: PO Box 429 _____
Fairhope, AL 36533 _____
 Telephone: 251.990.2884 _____

SECTION V:

LANDOWNER(S):

Name: (1) City of Fairhope (2) _____
 Address: PO Box 429 _____
Fairhope, AL 36533 _____
 Telephone: 251.928.2136 _____

Attach copy of agreement from landowner giving permission to use site for disposal if landowner is different from applicant.

SECTION VI:

ADJACENT LANDOWNER(S):

- a. Submit a list of all adjacent landowners including name and current mailing address.
- b. Submit a drawing/map identifying the proposed disposal site and the properties of all adjacent landowners listed in "a" above.

SECTION VII:

LOCAL APPROVAL: NO Required (Yes or No)
 _____ Date Received if needed (attach copy of resolution and proof of publishing public notice)

SECTION VIII:

WASTE DESCRIPTION:

- a. Describe and list all waste streams/types to be accepted at landfill:
The landfill accepts for disposal non-putrescible and non-hazardous construction and demolition waste including but not limited to wood, trees, slumps, limbs, scrap, metal, masonry and other construction debris, leaves, grass clippings, discarded tires, paper cardboard, appliances and various other inert waste materials.
- b. List proposed service area (geographic area or location(s)):
City of Fairhope , Alabama and surrounding areas in Baldwin County.
- c. What is the maximum daily volume of waste to be received at the landfill? (Select One)
_____ tons per day 257 cubic yards per day

SECTION IX:

SITE DESCRIPTION:

- a. Attach location map with the site clearly identified. Acceptable maps include a USGS 7.5 or 15 minute series, a county highway map published by the Alabama Department of Transportation.
- b. Location:
County: Baldwin
Part: SE of Section(s): 20
Township(s): 6S Range(s): 2E
- c. Attach legal property description and boundary plat of the permitted area and disposal area prepared and signed by a licensed land surveyor.
- d. Size of permitted area: 17.59 acres
- e. Size of disposal area: 16.05 acres

SECTION X:

This Section is to be completed by the applicants/permittees. A copy of all concurrence letters must be attached to this application upon submittal to the Department.

Location Standards (Rule 335-13-4-.01(1)):

- a. Is the landfill located in the 100-year flood plain? (need to have flood plain map)
NO: YES:
- b. Does the proposed landfill disposal area:
- (1.) Jeopardize the continued existence of endangered or threatened species protected under the Endangered Species Act of 1973?
NO: YES: (Attach letter from U.S. Dept. of Interior or Alabama Fish and Wildlife)
- (2.) Result in the destruction or adverse modification of critical habitats protected under the Endangered Species Act of 1973?
NO: YES: (Attach letter from U.S. Dept. of Interior or Alabama Fish and Wildlife)
- c. Is the proposed landfill located in a zone of active faults, seismic impact zones and unstable areas?
NO: YES:
(If YES then all required seismic studies should be submitted to the Department.)
- d. Is the proposed landfill located in an area that is archaeologically sensitive?
NO: YES: (Attach letter from State Historic Preservation Officer)

Water Quality Standards (Rule 335-13-4-.01(2)):

(ADEM Water Division should be contacted to determine if permit is required)

- a. Will the proposed landfill discharge pollutants to waters of the State in violation of requirements of the National Pollutant Discharge Elimination System (NPDES) Permit?
NO: YES:
- b. Will the proposed landfill violate any requirement of an area wide or Statewide water quality plan that has been approved under the Alabama Water Pollution Control Act?
NO: YES:
- c. Will any part of the landfill, including buffer zone, be located in wetlands, beaches, dunes?
NO: YES:

d. Will solid waste be disposed in any location which will significantly degrade wetlands, beaches, or dunes?
NO: X YES:

e. Will the proposed landfill be located outside the boundaries of the coastal area? (If not, then all demonstrations should be submitted to the Department for review.)
NO: YES: X

Groundwater Elevations:

Has a minimum five-foot separation between the floor of the disposal cell and the groundwater been established? NO: YES: X

SECTION XI:

GENERAL COMMENTS:

All materials listed in Rules 335-13-4-.12 to 335-13-4-.17, Rules 335-13-4-.19 to 335-13-4-.20, and Rule 335-13-4-.23 shall be kept at the landfill office along with a copy of the engineering drawings which must be submitted to the Department for review.

The applicant/permittee is responsible for obtaining a copy of the Division 13 regulations and complying with all Rules related to construction/demolition landfill units.

SECTION XII:

CERTIFICATION OF LOCAL GOVERNMENT APPROVAL:

Upon submittal of this application, we the undersigned certify that local approval has been obtained from City of Fairhope (city/county). Evidence of this local approval is contained in documents which are on file at the permit applicant's business address.

CERTIFICATION OF COMPLIANCE:

Upon submittal of this application, we the undersigned certify that this document and all attachments submitted are to the best of our knowledge and belief, true, accurate, and complete. We also understand that if any of the material certified to above has not been received, or is not complete or is not accurate, that shall be grounds for the Department to revoke the landfill permit if issued.

SIGNATURE (Responsible official of permit applicant):

Karin Wikson TITLE: Mayor
Karin Wikson DATE: 12/10/19
(please print or type name)

SIGNATURE (Certifying Engineer):

Scott A. Hutchinson TITLE: V.P.
SCOTT A. HUTCHINSON DATE: 12/6/19
(please print or type name)

FIRM: GOODSWYN, MILLS & CAWOOD, INC STAMP OR SEAL:



DETENTION POND AND OUTFALL STRUCTURE DESIGN

PRE-DEVELOPMENT										
Pond Design Calculations					I (in/hr)	(acres)	C	*Qo (cfs)	Tc (min)	
Qo= Pre-Development Flow Qi= Post-Development Inflow from Pond Drainage Area 24hr, 50yr Storm					7.9	10.50	0.2	16.6	15	
* Flow allowed after deducting the flow from the area allowed to by-pass the pond.										
TIME Minutes	T (sec)	I (in/hr) 50yr	Post Dev C	Pond Drainage Area (acres)	Qi (cfs)	Vi	Vo	Required Storage (Ft ^3)	Provided Storage (ft^3)	
									12500	
5	300	10.1	0.35	10.50	37.1	11135.3	4977.0	6158		
10	600	9.0	0.35	10.50	33.1	19845.0	9954.0	9891	Off-Site Acres	0
15	900	7.9	0.35	10.50	29.0	26129.3	14931.0	11198	2 yr I (in/hr)	0
20	1200	7.0	0.35	10.50	25.7	30870.0	19908.0	10962	C	0
25	1500	6.5	0.35	10.50	23.7	35555.6	24885.0	10671		
30	1800	5.8	0.35	10.50	21.1	38036.3	29862.0	8174	2 yr	
35	2100	5.3	0.35	10.50	19.5	40902.8	34839.0	6064	Off-Site	
40	2400	4.9	0.35	10.50	18.0	43218.0	39816.0	3402	Flow (cfs) =	0
45	2700	4.7	0.35	10.50	17.3	46635.8	44793.0	1843		
50	3000	4.4	0.35	10.50	16.2	48510.0	49770.0	-1260		
55	3300	4.2	0.35	10.50	15.4	50935.5	54747.0	-3812	Off-Site Acres	0
60	3600	3.9	0.35	10.50	14.3	51597.0	59724.0	-8127	25 yr I (in/hr)	0
									C	0
				Area(acres) allowed to by-pass Pond =	0		Total Storage Req'd (cf) 11198		25 yr Off-Site Flow (cfs) =	0.00
Number of Orifices	Orifice Description (dia. Inches)	Allowable Pre-dev Q (cfs) **		Per Orifice Q (cfs)	Cd	Per Orifice Ao(sf)	HEAD (ft) above center of orifice	Depth (ft) of water in pond		
1	18	16.6		16.6	0.62	1.7663	3.56	4.31	Off-Site Acres	0
									100yr I (in/hr)	0
									C	0
EMERGENCY OVERFLOW FOR 100-YR STORM RECTANGULAR WEIR FLOW: $Q = CdL(H)^{1.5}$										
Ht of weir above invert of orifice (ft)	H (ft) above weir crest	New Head Above Orifice (ft)	New Q (cfs) thru orifice	Q (cfs) 100 yr	100 yr Q weir must control	Weir Cd		Minimum Weir LENGTH (ft)	Total Depth of Water (ft)	
4.30	0.75	4.30	18.22	36.75	18.53	3.00		9.51	5.05	

