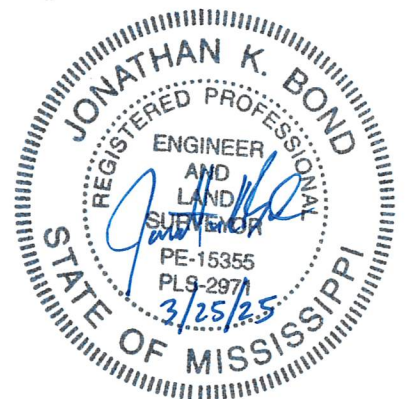


STORM WATER POLLUTION PREVENTION PLAN
THE GROVE AT OLD MILL LANDING
PEARL RIVER CO. MS



O'NEAL - BOND
Engineering Inc. since 1969

March 24, 2025



AI: 88561

MSR109510

Rec'd via email:
03/25/2025



MISSISSIPPI DEPARTMENT OF
ENVIRONMENTAL QUALITY

LARGE CONSTRUCTION NOTICE OF INTENT (LCNOI) FOR COVERAGE UNDER THE LARGE CONSTRUCTION STORM WATER GENERAL NPDES PERMIT

INSTRUCTIONS

The Large Construction Notice of Intent (LCNOI) is for coverage under the Large Construction General Permit for land disturbing activities of five (5) acres or greater; or for land disturbing activities, which are part of a larger common plan of development or sale that are initially less than five (5) acres but will ultimately disturb five (5) or more acres. Applicant must be the owner or operator. For construction activities, the operator is typically the prime contractor. The owner(s) of the property and the prime contractor associated with regulated construction activity on the property have joint and severable responsibility for compliance with the Large Construction Storm Water General Permit MSR10.

If the company seeking coverage is a corporation, a limited liability company, a partnership, or a business trust, attach proof of its registration with the Mississippi Secretary of State and/or its Certificate of Good Standing. This registration or Certificate of Good Standing must be dated within twelve (12) months of the date of the submittal of this coverage form. Coverage will be issued in the company name as it is registered with the Mississippi Secretary of State.

Completed LCNOIs should be filed at least thirty (30) days prior to the commencement of construction. Discharge of storm water from large construction activities without written notification of coverage is a violation of state law.

Submittals with this LCNOI must include:

- A site-specific Storm Water Pollution Prevention Plan (SWPPP) developed in accordance with ACT5 of the General Permit
- A detailed site-specific scaled drawing showing the property layout and the features outlined in ACT5 of the General Permit
- A United States Geological Survey (USGS) quadrangle map or photocopy, extending at least one-half mile beyond the facility property boundaries with the site location and outfalls outlined or highlighted. The name of the quadrangle map must be shown on all copies. Quadrangle maps can be obtained from the MDEQ, Office of Geology at 601-961-5523.

Additional submittals may include the following, if applicable:

- Appropriate Section 404 documentation from U.S. Army Corps of Engineers
- Appropriate documentation concerning future disposal of sanitary sewage and sewage collection system construction
- Appropriate documentation from the MDEQ Office of Land & Water concerning dam construction and low flow requirements
- Approval from County Utility Authority in Hancock, Harrison, Jackson, Pearl River and Stone Counties
- Antidegradation report for disturbance within Waters of the State

ALL QUESTIONS MUST BE ANSWERED (Answer "NA" if the question is not applicable)

PERMIT

NARRATIVE

MAPS

DETAILS

CALCULATIONS

SUPPORT DOCUMENTS

PERMIT

MSR10 MSR109510

(NUMBER TO BE ASSIGNED BY STATE)

APPLICANT IS THE: OWNER PRIME CONTRACTOR

OWNER CONTACT INFORMATION

OWNER CONTACT PERSON: James Macaluso, CPBD
OWNER COMPANY LEGAL NAME: Macaluso Properties, LLC
OWNER STREET OR P.O. BOX: 204 Village Circle, Suite 2
OWNER CITY: Slidell STATE: LA ZIP: 70458
OWNER PHONE #: (985) 641 7168 OWNER EMAIL: macdevelopment.landings@gmail.com

PREPARER CONTACT INFORMATION

IF NOI WAS PREPARED BY SOMEONE OTHER THAN THE APPLICANT

CONTACT PERSON: JON BOND
COMPANY LEGAL NAME: O'NEAL-BOND ENGINEERING, INC.
STREET OR P.O. BOX: P.O. BOX 369
CITY: WIGGINS STATE: MS ZIP: 39577
PHONE # () 601-928-7390 EMAIL: jon@onealbondeng.com

PRIME CONTRACTOR CONTACT INFORMATION

PRIME CONTRACTOR CONTACT PERSON: _____
PRIME CONTRACTOR COMPANY LEGAL NAME: _____
PRIME CONTRACTOR STREET OR P.O. BOX: _____
PRIME CONTRACTOR CITY: _____ STATE: MS ZIP: 39
PRIME CONTRACTOR PHONE #: () _____ PRIME CONTRACTOR EMAIL: _____

FACILITY SITE INFORMATION

FACILITY SITE NAME: The Groves at Old Mill Landing
FACILITY SITE ADDRESS (If the physical address is not available, please indicate the nearest named road. For linear projects indicate the beginning of the project and identify all counties the project traverses.)
STREET: Mill Landing Drive
CITY: Picayune STATE: MS COUNTY: Pearl River ZIP: 39466
FACILITY SITE TRIBAL LAND ID (N/A if not applicable): N/A
LATITUDE: 30 degrees 32 minutes 07.5 seconds LONGITUDE: 89 degrees 33 minutes 28.9 seconds
LAT & LONG DATA SOURCE (GPS (Please GPS Project Entrance/Start Point) or Map Interpolation): Google Map Interpolation
TOTAL ACREAGE THAT WILL BE DISTURBED ¹: 38 acres

IS THIS PART OF A LARGER COMMON PLAN OF DEVELOPMENT? YES NO

IF YES, NAME OF LARGER COMMON PLAN OF DEVELOPMENT: _____
 AND PERMIT COVERAGE NUMBER: MSR10 _____

ESTIMATED CONSTRUCTION PROJECT START DATE: 2025-04-31
 YYYY-MM-DD

ESTIMATED CONSTRUCTION PROJECT END DATE: 2026-03-01
 YYYY-MM-DD

DESCRIPTION OF CONSTRUCTION ACTIVITY: Road Construction, water and sewer, residential lots

PROPOSED DESCRIPTION OF PROPERTY USE AFTER CONSTRUCTION HAS BEEN COMPLETED:
Residential Subdivision

SIC Code: 1521 NAICS Code 236115

NEAREST NAMED RECEIVING STREAM: BOARD PILE BRANCH

IS RECEIVING STREAM ON MISSISSIPPI'S 303(d) LIST OF IMPAIRED WATER BODIES? (The 303(d) list of impaired waters and TMDL stream segments may be found on MDEQ's web site: http://www.deq.state.ms.us/MDEQ.nsf/page/TWB_Total_Maximum_Daily_Load_Section) YES NO

HAS A TMDL BEEN ESTABLISHED FOR THE RECEIVING STREAM SEGMENT? FOR YES NO

WHICH POLLUTANT: PH and Fecal Coliform (turkey creek) & phenol, total toxics, organics in (Benard Bayou)

ARE THERE RECREATIONAL STREAMS, PRIVATE/PUBLIC PONDS OR LAKES WITHIN 1/2 MILE DOWNSTREAM OF PROJECT BOUNDARY THAT MAY BE IMPACTED BY THE CONSTRUCTION ACTIVITY? YES NO

EXISTING DATA DESCRIBING THE SOIL (for linear projects please describe in SWPPP):
CLAYEY SILT

WILL FLOCCULANTS BE USED TO TREAT TURBIDITY IN STORM WATER? YES NO

IF YES, INDICATE THE TYPE OF FLOCCULANT. ANIONIC POLYACRYLIMIDE (PAM)
 OTHER _____

IF YES, DOES THE SWPPP DESCRIBE THE METHOD OF INTRODUCTION, THE LOCATION OF INTRODUCTION AND THE LOCATION OF WHERE FLOCCULATED MATERIAL WILL SETTLE?

IS A SDS SHEET INCLUDED FOR THE FLOCCULATE? YES NO

WILL THERE BE A 50 FT BUFFER BETWEEN THE PROJECT DISTURBANCE AND THE WATERS OF THE STATE? YES NO

IF NOT, PROVIDE EQUIVALENT CONTROL MEASURES IN THE SWPPP.

¹ Acreage for subdivision development includes areas disturbed by construction of roads, utilities and drainage. Additionally, a housesite of at least 10,000 ft² per lot (entire lot, if smaller) shall be included in calculating acreage disturbed.

DOCUMENTATION OF COMPLIANCE WITH OTHER REGULATIONS/REQUIREMENTS
 COVERAGE UNDER THIS PERMIT WILL NOT BE GRANTED UNTIL ALL OTHER REQUIRED
 MDEQ PERMITS AND APPROVALS ARE SATISFACTORILY ADDRESSED

IS LCNOI FOR A FACILITY THAT WILL REQUIRE OTHER PERMITS?

YES NO

IF YES, CHECK ALL THAT APPLY: AIR HAZARDOUS WASTE PRETREATMENT
 WATER STATE OPERATING INDIVIDUAL NPDES OTHER: _____

IS THE PROJECT REROUTING, FILLING OR CROSSING A WATER CONVEYANCE OF ANY KIND? (If yes, contact the U.S. Army Corps of Engineers' Regulatory Branch for permitting requirements.) YES NO

IF THE PROJECT REQUIRES A CORPS OF ENGINEER SECTION 404 PERMIT, PROVIDE APPROPRIATE DOCUMENTATION THAT:

- The project has been approved by individual permit, or
- The work will be covered by a nationwide permit and NO NOTIFICATION to the Corps is required, or
- The work will be covered by a nationwide or general permit and NOTIFICATION to the Corps is required

IS THE PROJECT REROUTING, FILLING OR CROSSING A STATE WATER CONVEYANCE OF ANY KIND? (If yes, please provide an antidegradation report.) YES NO

IS A LAKE REQUIRING THE CONSTRUCTION OF A DAM BEING PROPOSED? (If yes, provide appropriate approval documentation from MDEQ Office of Land and Water, Dam Safety.) YES NO


IF THE PROJECT IS A SUBDIVISION OR A COMMERCIAL DEVELOPMENT, HOW WILL SANITARY SEWAGE BE DISPOSED? Check one of the following and attach the pertinent documents.

- Existing Municipal or Commercial System. Please attach plans and specifications for the collection system and the associated "Information Regarding Proposed Wastewater Projects" form or approval from County Utility Authority in Hancock, Harrison, Jackson, Pearl River and Stone Counties. If the plans and specifications can not be provided at the time of LCNOI submittal, MDEQ will accept written acknowledgement from official(s) responsible for wastewater collection and treatment that the flows generated from the proposed project can and will be transported and treated properly. The letter must include the estimated flow.
- Collection and Treatment System will be Constructed. Please attach a copy of the cover of the NPDES discharge permit from MDEQ or indicate the date the application was submitted to MDEQ (Date: _____.)
- Individual Onsite Wastewater Disposal Systems for Subdivisions Less than 35 Lots. Please attach a copy of the Letter of General Acceptance from the Mississippi State Department of Health or certification from a registered professional engineer that the platted lots should support individual onsite wastewater disposal systems.
- Individual Onsite Wastewater Disposal Systems for Subdivisions Greater than 35 Lots. A determination of the feasibility of installing a central sewage collection and treatment system must be made by MDEQ. A copy of the response from MDEQ concerning the feasibility study must be attached. If a central collection and wastewater system is not feasible, then please attach a copy of the Letter of General Acceptance from the State Department of Health or certification from a registered professional engineer that the platted lots should support individual onsite wastewater disposal systems.

INDICATE ANY LOCAL STORM WATER ORDINANCE (I.E. MS4) WITH WHICH THE PROJECT MUST COMPLY:

PEARL RIVER COUNTY UTILITY AUTHORITY

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.


Signature of Applicant¹ (owner or prime contractor)

02/27/2025
Date Signed

JAMES MACALUSO
Printed Name¹

MANAGER, MSWQR
Title

¹This application shall be signed as follows:

- For a corporation, by a responsible corporate officer.
- For a partnership, by a general partner.
- For a sole proprietorship, by the proprietor.

For a municipal, state or other public facility, by principal executive officer, mayor, or ranking elected official

Please submit the LCNOI form to: Chief, Environmental Permits Division
MS Department of Environmental Quality, Office of Pollution Control
P.O. Box 2261
Jackson, Mississippi 39225

Electronically: <https://www.mdeq.ms.gov/construction-stormwater/>

Revised 3/23/22

PRIME CONTRACTOR CERTIFICATION

LARGE CONSTRUCTION GENERAL PERMIT

Coverage No. MSR10 _____ County _____

(Fill in your Certificate of Coverage Number and County)



By completing and submitting this form to MDEQ, the prime contractor is certifying that (1) they have operational control over the erosion and sediment control specifications (including the ability to make modifications to such specifications) or (2) they have day-to-day operational control of those activities at the site necessary to ensure compliance with the SWPPP and applicable permit conditions.

The owner(s) of the property and the prime contractor associated with regulated construction activity on the property have joint and severable responsibility for compliance with the permit. Notwithstanding any permit condition to the contrary, the coverage recipient and any person who causes pollution of waters of the state or places waste in a location where they are likely to cause pollution of any waters of the state shall remain responsible under applicable federal and state laws and regulations and applicable permits.

PRIME CONTRACTOR INFORMATION

PRIME CONTRACTOR CONTACT PERSON: _____ PHONE NUMBER: (____) _____

PRIME CONTRACTOR COMPANY: _____

PRIME CONTRACTOR STREET (P.O. BOX): _____

PRIME CONTRACTOR CITY: _____ STATE: _____ ZIP: _____

E-MAIL ADDRESS: _____

OWNER INFORMATION

OWNER CONTACT PERSON: _____ PHONE NUMBER: (____) _____

OWNER COMPANY NAME: _____

PROJECT INFORMATION

PROJECT NAME: _____

DESCRIPTION OF CONSTRUCTION ACTIVITY: _____

PHYSICAL SITE ADDRESS (If the physical address is not available indicate the nearest named road. For linear projects, indicate the beginning of the project and identify all counties the project traverses.)

STREET: _____

CITY: _____ COUNTY: _____

I certify that I am the prime contractor for this project and will comply with all the requirements in the above referenced general NPDES permit. I further certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Prime Contractor Signature¹ _____

Date Signed _____

Printed Name¹ _____

Title _____

- ¹This application shall be signed as follows:
- For a corporation, by a responsible corporate officer.
 - For a partnership, by a general partner.
 - For a sole proprietorship, by the proprietor.
 - For a municipal, state or other public facility, by principal executive officer, mayor, or ranking elected official.

This Prime Contractors Certification form shall be submitted to:
Chief, Environmental Permits Division
MS Department of Environmental Quality, Office of Pollution Control
P.O. Box 2261
Jackson, Mississippi 39225

Keep a Copy at the Construction Site and Also Submit this Page to:
 Chief, Environmental Permits Division
 MS Department of Environmental Quality, Office of Pollution Control
 P.O. Box 2261
 Jackson, Mississippi 39225-2261

Registration Form for Residential Lot Coverage under Mississippi's Large Construction Storm Water General Permit INSTRUCTIONS



Coverage recipients for residential subdivision construction that do not retain responsibility for permit compliance for individual lots are to furnish this Registration to buyers of individual lots at the time of purchase. In addition, the attached Requirements for Individual Lots in Residential Subdivisions, the Site Inspection and Certification Form and the Large Construction Storm Water General Permit shall also be given to buyers of individual lots at the time of purchase. This form is providing notification to buyers of lots in residential developments, that being part of a "larger common plan of development or sale," coverage is required under Mississippi's Large Construction Storm Water General Permit. To comply with the permit, **the Registration Form must be submitted to MDEQ** at the address listed above and a Storm Water Pollution Prevention Plan (SWPPP) must be developed and implemented to reduce pollutants in storm water discharges during construction activity. **The SWPPP is not required to be submitted to MDEQ.** A copy of the SWPPP and Registration Form must be kept at the construction site or locally available (i.e., able to be produced within an hour of being requested by a state or local inspector). See the following attachments for information on SWPPP development. In addition, **a copy of the completed Registration Form(s) must be retained by the developer and submitted to the MDEQ when requesting termination of permit coverage.** If the buyer or homebuilder sells the lot before a house is built, they must provide this form to the new owner. All questions must be answered. Answer "NA" if the question is not applicable. For further information, contact MDEQ at 601/961-5171 or access our website address: www.deq.state.ms.us/MDEQ.nsf/page/epd_epdgeneral.

ORIGINAL COVERAGE RECIPIENT NAME: _____ COMPANY NAME: _____ STREET OR P.O. BOX: _____ CITY: _____ STATE: _____ ZIP: _____ PHONE # (INCLUDE AREA CODE): _____	BUYER / HOMEBUILDER: _____ COMPANY NAME (IF APPROPRIATE): _____ STREET OR P.O. BOX: _____ CITY: _____ STATE: _____ ZIP: _____ BUYER PHONE # (INCLUDE AREA CODE): _____
---	---

RESIDENTIAL SUBDIVISION NAME: _____

LARGE CONSTRUCTION STORM WATER PERMIT COVERAGE NUMBER: MSR10: _____

LOT NUMBER(s) (attach an additional sheet if necessary): _____ **LOT SIZE(s):** _____

PHYSICAL SITE ADDRESS (IF NOT AVAILABLE INDICATE THE NEAREST NAMED ROAD):

STREET: _____

CITY: _____ **COUNTY:** _____ **ZIP:** _____

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the persons or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations. As a buyer / homebuilder, I further certify that I have read and understand the terms and conditions of Mississippi's Large Construction Storm Water General Permit and that I am responsible for installing and maintaining the appropriate pollution control measures for the purchased lot(s) identified.

Original Coverage Recipient Signature¹ _____	Date Signed _____
Printed Name _____	Title _____
Buyer / Homebuilder Signature¹ _____	Date Signed _____
Printed Name _____	Title _____

¹This application shall be signed according to ACT11, T-7 of the Large Construction General Permit.

REQUIREMENTS FOR LOTS IN RESIDENTIAL SUBDIVISION WHICH ARE COVERED BY THE LARGE CONSTRUCTION STORM WATER GENERAL PERMIT

As a homebuilder on a lot that is part of a regulated subdivision, you are also regulated under the State's storm water regulations and are required to take steps to keep soil and sediment from leaving the lot. When rain falls on exposed soil it can wash away valuable topsoil. It also carries sediment, nutrients and other pollutants into streets, gutters and ditches, where it then travels to lakes, rivers, streams or wetlands. Polluted runoff can cause excessive growth of aquatic weeds and algae and reduce recreational opportunities such as swimming and fishing. Sediment laden runoff can also destroy fish habitat reducing productive fishing opportunities. In addition, sediment-laden runoff can also clog pipes, ditches, streams and basins resulting in increased flooding and maintenance cost. Therefore, the homebuilder is required to minimize off-site damage from soil erosion, sediment leaving the construction site, and poor "housekeeping" practices. This requirement must be accomplished by developing and implementing a Storm Water Pollution Prevention Plan (SWPPP). Some examples of individual lot SWPPPs are attached for your convenience. Sketch the controls on a copy of your site plan. Narrative notes on the site plan may also be used in addition to the erosion control symbols.

In developing and implementing the SWPPP, controls must be used from each control group (vegetative, structural, housekeeping) to prevent erosion and sediment and other pollutants from leaving the site. Commonly used controls include:

Vegetative Controls

Temporary vegetation includes annual grasses that sprout quickly such as annual rye, browntop millet, oats, and winter wheat. These grow quickly with little care and can protect the soil from rainfall and act as a filter. They will not provide permanent cover. Permanent cover must be established as indicated below. When a disturbed area will be left undisturbed for fourteen (14) days or more, the appropriate temporary or permanent vegetative practices shall be implemented immediately.

Mulching is the placement of hay grass, woodchips, straw, or synthetic material on the soil to provide temporary cover to protect the soil from rain. Mulching may be the only option during the winter when seeding or sodding is not possible. Mulch must stay in place to be effective. Netting, stakes or chemical binders are used to anchor some types of mulch. Be sure to reinstall washed-out mulch and anchor if necessary until permanent cover is established.

Permanent stabilization is the establishment of a permanent vegetative cover on disturbed areas using either sod, perennial seed, trees or shrubs. When a disturbed area will be left undisturbed for fourteen (14) days or more, the appropriate temporary or permanent vegetative practices shall be implemented immediately. Silt fences, and other temporary measures must be removed following permanent stabilization.

Vegetative buffer zones are undisturbed or planted vegetated areas that are between construction activities and water bodies.

Structural Controls

Silt fences are temporary sediment barriers made of filter fabric buried at the bottom, stretched, and supported by stakes. The silt fence slows runoff and allows it to puddle or pond, so soil and sediment can settle out before leaving the site. The bottom eight to twelve inches of fence must either be sliced in or buried in a trench about four to six inches deep by four to six inches wide. **Silt fences that are not buried are improperly installed. They have no useful function, are a waste of money, and may result in enforcement action.** Stakes must be on the downstream side of the fence and spaced about 3 feet apart. Silt fence must not be installed across streams, ditches, waterways, or other concentrated flow areas. Place fences on the contour or perpendicular to the slope of the hill so that water and sediment will pond behind the fence. **Turn ends uphill** to prevent water going around the end. Install on the downslope, downhill, downstream, or low side of your lot. Keep the fence/barrier in place until grass is established.

Slope drains are piping or lined channels that carry storm water downslope without erosion. A good example would be a downspout extender. Extenders may be used to protect temporarily stabilized areas from roof runoff. Extenders can direct water from roof gutters to paved or grassed areas. Remove extenders following permanent stabilization.

Construction entrance/exits are stone stabilized site entrances which reduce sediment tracked onto public roads. Apply gravel or crushed rock to the driveway area and restrict traffic to this one route. Use 3 to 6 inch gravel over a geotextile fabric. At the end of each day sweep or scrape up any soil tracked onto the street. Limit "standard" vehicle access (including workers' vehicles) to only streets and roads, keep vehicles off of future yard areas; limit tracking of mud onto streets by requiring any required vehicles to use designated access drives. Streets are conduits for storm water, it is important to keep mud and sediment off the streets.

Stockpiles of sand or soil should be covered with plastic or tarps at the end of each workday, or surrounded with silt fence or haybales. Do not locate a stockpile near a street, storm drain inlet, or ditch.

Erosion control blankets or mats are machine-produced mats of straw or other fibers held together with netting that provide temporary or permanent stabilization in critical areas, such as slopes or channels, so that vegetation may be established.

Storm Drain Inlets on the lot must be protected by surrounding or covering with a filter material until final stabilization has been achieved.

Additional Controls: The above controls are the more common practices used at small construction sites. There are a number of other controls, techniques and manufactured product available. A few examples include hydro seeding, diversion berms, silt dikes and fiber logs. Even something as simple as a tarp or plastic may provide temporary cover for small exposed areas. You may wish to contact an erosion and sediment control specialist, local building official, or MDEQ for further information. In addition, MDEQ has several guidance manuals that may be of assistance and the internet has abundant guidance on construction BMPs.

Housekeeping Controls: Pollutants that may enter storm water from construction sites because of poor housekeeping include oils, grease, paints, gasoline, solvents, litter, debris, and sanitary waste. Good housekeeping practices include:

- Frequent cleaning of trash and debris, providing waste receptacles at convenient locations and providing regular collection of waste;
- Directing concrete trucks to the subdivision's designated wash-off area(s) or back to the Ready-Mix facility;
- Providing protected storage areas for chemicals, paints, solvents, fertilizers, and other potentially toxic materials; and
- Providing adequately maintained sanitary facilities.

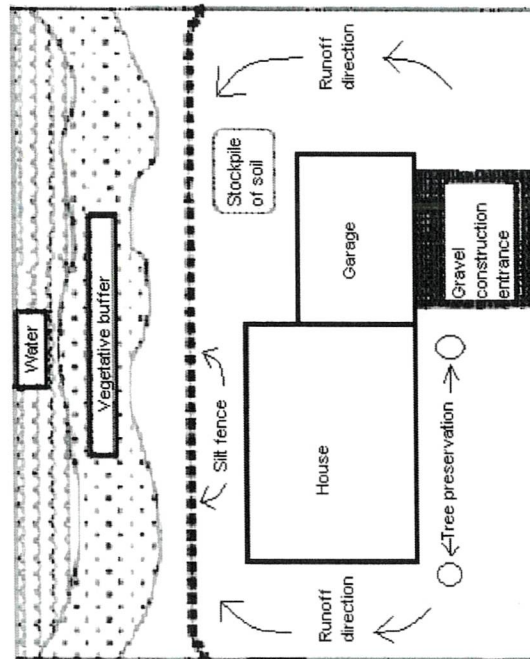
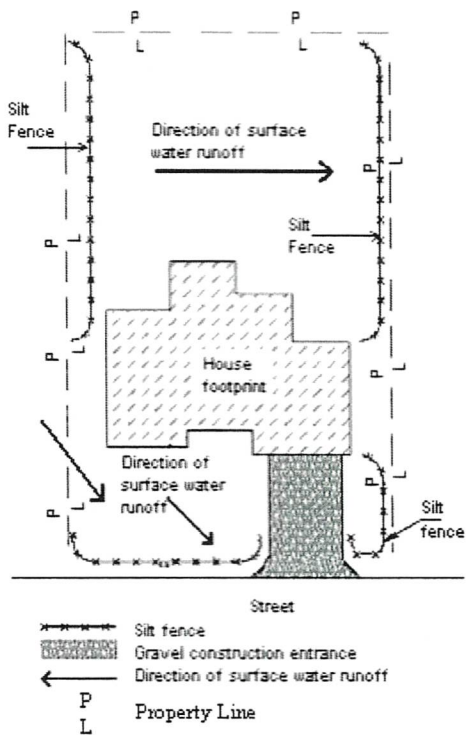
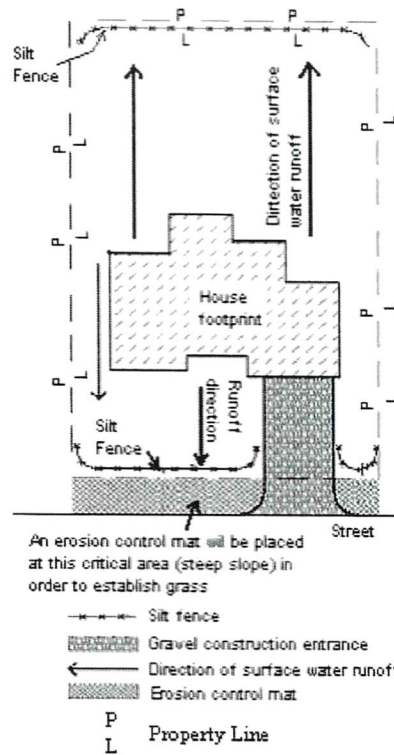
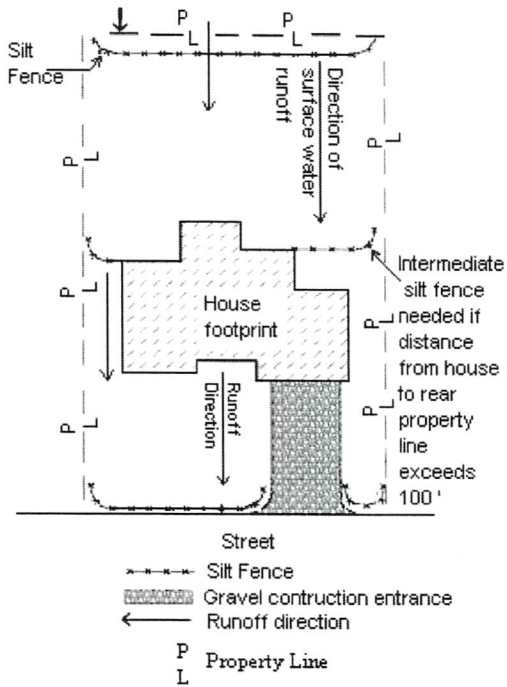
In addition, you should be aware that State air regulations prohibit the open burning of residential solid waste.

Inspection Requirements. Homebuilders shall inspect all erosion controls as often as is necessary, but no less than weekly, to ensure that appropriate erosion and sediment controls have been properly constructed and maintained to prevent erosion and sediment from leaving the site and determine if additional or alternative control measures are required. The inspection results shall be recorded on the Site Inspection and Certification Form contained in the Large Construction Forms Package. MDEQ strongly recommends that homebuilders perform "walk through" inspections daily. It is a responsibility of the homebuilder to install additional and/or alternative erosion and sediment controls when existing controls prove to be ineffective in preventing sediment from leaving the site.

Retention of Records. All records, reports, forms and information resulting from activities required by this permit shall be retained for a period of at least three years from the date of the document origin.

Duty to Comply. Lot owners must comply with the applicable permit conditions. See Activities 3, 5, 6, 7, 10 and 11 in the Large Construction Storm Water General Permit for applicable conditions. Any noncompliance with the applicable permit conditions and aforementioned conditions including sediment leaving the lot constitutes a violation of the Mississippi Water Pollution Control Law and is grounds for enforcement action. It shall not be an acceptable defense that controls were not installed because subsequent activities would require their replacement or cause their destruction.

EXAMPLE INDIVIDUAL LOT EROSION AND SEDIMENT CONTROL PLANS



All disturbed areas will be temporarily seeded with ryegrass. After final grade has been reached, all disturbed areas will be sodded with bermuda grass.

Keep a Copy Available at the Permitted Facility or Locally Available
 Submit the Inspection Reports Only if Requested by the Mississippi Department of Environmental Quality (MDEQ)

**LARGE CONSTRUCTION GENERAL PERMIT
 SITE INSPECTION AND CERTIFICATION FORM
 COVERAGE NUMBER (MSR10 _____)**



INSTRUCTIONS

Results of construction storm water inspections required by ACT6 of this permit shall be recorded on this report form and kept with the Storm Water Pollution Prevention Plan (SWPPP) in accordance with the inspection documentation provisions of ACT9 of the this permit. Inspections shall be performed at least weekly for a minimum of four inspections per month. The coverage number must be listed at the top of all Inspection and Certification Forms.

COVERAGE RECIPIENT INFORMATION

OWNER/PRIME CONTRATOR NAME: _____
 PROJECT NAME: _____
 PROJECT STREET ADDRESS: _____
 PROJECT CITY: _____ PROJECT COUNTY: _____
 OWNER/PRIME CONTRACTOR MAILING ADDRESS: _____
 MAILING CITY: _____ STATE: _____ ZIP: _____
 CONTACT PERSON: _____ CONTACT PHONE NUMBER: (____) _____
 EMAIL ADDRESS: _____

INSPECTION DOCUMENTATION

DATE (mo/day/yr)	TIME (hr:min AM/PM)	ANY DEFICIENCIES? (CHECK IF YES)	INSPECTOR(S)
		<input type="checkbox"/>	
		<input type="checkbox"/>	
		<input type="checkbox"/>	
		<input type="checkbox"/>	
		<input type="checkbox"/>	
		<input type="checkbox"/>	

Deficiencies Noted During any Inspection (give date(s); attach additional sheets if necessary): _____

Corrective Action Taken or Planned (give date(s); attach additional sheets if necessary): _____

Based upon this inspection, which I or personnel under my direct supervision conducted, I certify that all erosion and sediment controls have been implemented and maintained, except for those deficiencies noted above, in accordance with the Storm Water Pollution Prevention Plan (SWPPP) and sound engineering practices as required by the above referenced permit. I further certify that the LCNOI and SWPPP information is up to date.

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fines and imprisonment for knowing violations.

 Authorized Signature

 Date

 Printed Name

 Title

**MAJOR MODIFICATION FORM
FOR LARGE CONSTRUCTION GENERAL PERMIT**
Coverage No. MSR10 _____ County _____



MISSISSIPPI DEPARTMENT OF ENVIRONMENTAL QUALITY

INSTRUCTIONS

Coverage recipients shall notify the Mississippi Department of Environmental Quality at least 30 days in advance of the following activities (check all that apply). This form should be submitted with a modified Storm Water Pollution Prevention Plan (SWPPP), updated USGS topographic map, Corps of Engineers Section 404 documentation and wastewater collection and treatment information, as appropriate.

- SWPPP details have been developed and are ready for MDEQ review for subsequent phases of an existing, covered project.
- "Footprint" identified in the original LCNOI is proposed to be enlarged.

This form must be signed by the current coverage recipient under Mississippi's Large Construction General Permit. A different developer of new phases of existing subdivisions must apply for separate permit coverage through the submittal of a new complete LCNOI package. Coverage recipients are authorized to discharge storm water associated with proposed expansions of existing subdivisions or subsequent phases, under the conditions of the General Permit, only upon receipt of written notification of approval by MDEQ. All other modifications, such as changes of erosion and sediment controls used, must be in accordance with ACT6, S-1 (6) and S-2 (7) of the General Permit.

ALL INFORMATION MUST BE COMPLETED (indicate "N/A" where not applicable)

COVERAGE RECIPIENT INFORMATION

COVERAGE RECIPIENT CONTACT NAME: _____ TEL # (____) _____

COMPANY NAME: _____

STREET OR P.O. BOX: _____

CITY: _____ STATE: _____ ZIP: _____ E-MAIL: _____

PROJECT INFORMATION

PROJECT NAME: _____

CITY: _____

ADDITIONAL ACREAGE TO BE DISTURBED: _____ TOTAL PROJECT ACREAGE: _____

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Signature (must be signed by coverage recipient)

Date

Printed Name

Title

Please submit this form to:

Chief, Environmental Permits Division
MS Department of Environmental Quality, Office of Pollution Control
P.O. Box 2261
Jackson, Mississippi 39225

Environmental Permits for Industrial Facilities

Request for Transfer of Permit, General Permit Coverage and/or Name Change

Instructions: For Ownership Change-Complete all Items on Page 1 (except Item VIII) and Page 2 (reverse side).
For Name Change Only-Complete Items I, II, V, VI, VII, VIII, and Page 2 (reverse side).

Note-This form should be submitted to MDEQ when a transferal date is finalized but prior to the actual transfer.

<p>Item I.</p> <p>Facility Name: _____</p> <p>Location: (Do Not Use P.O. Box)</p> <p style="padding-left: 40px;">Street: _____</p> <p style="padding-left: 40px;">City: _____ State: <u>MS</u> Zip: _____</p> <p>County: _____</p> <p>Telephone: (_____) _____</p>	<p>Item II.</p> <p>Responsible official after transfer or name change:</p> <p>Name: _____</p> <p>Title: _____</p> <p>Mailing Address:</p> <p style="padding-left: 40px;">Street/P.O. Box: _____</p> <p style="padding-left: 40px;">City: _____ State: _____ Zip: _____</p> <p>Telephone (_____) _____</p>								
<p>Item III.</p> <p>Previous Permittee¹: _____</p> <p>Mailing Address:</p> <p style="padding-left: 40px;">Street/P.O. Box: _____</p> <p style="padding-left: 40px;">City: _____ State: _____ Zip: _____</p> <p>Telephone: (_____) _____</p>	<p>Item IV.</p> <p>New Permittee¹: _____</p> <p>Mailing Address:</p> <p style="padding-left: 40px;">Street/P.O. Box: _____</p> <p style="padding-left: 40px;">City: _____ State: _____ Zip: _____</p> <p>Telephone: (_____) _____</p>								
<p>Item V.</p> <p>Industrial Activity SIC Code: _____</p> <p>Brief Description:</p>	<p>Item VI.</p> <p>Will Facility Operations Change? Yes _____ No _____</p> <p>If yes, the appropriate applications and permits may require modification prior to change.</p>								
<p>Item VII.</p> <p>Will Facility Name Change? Yes _____ No _____</p> <p>If Yes, Provide New Name for Permit Coverage</p> <p>New Name: _____</p>	<p>Item VIII.</p> <p>Signature for Name Change</p> <p>Print Name: _____</p> <p>Authorized Signature²: _____</p> <p>Title: _____ Date: _____</p>								
<p>Item IX.</p> <p>We the undersigned request transfer of permit(s) and/or permit coverage(s) listed on the backside of this form.</p> <p>From: _____</p> <p>To: _____ Acquisition Date: _____</p> <p>By signature below, the recipient certifies that: 1) they are aware of the requirements of the permit(s), 2) the applicant can demonstrate to the Permit Board it has the financial resources and operational expertise and 3) agrees to accept responsibility and liability for the permit(s) listed on the back of this document. By signature below, the previous permittee is requesting that the permit(s) and/or permit coverage(s) be transferred to the recipient. The transfer of the permit(s) or permit coverage(s) will be by written notification from the Office of Pollution Control (OPC). The OPC may require submittal of information regarding financial capability and past compliance history of the recipient.</p> <table style="width: 100%; border: none;"> <tr> <td style="width: 50%; border: none;"> <p>_____</p> <p>Print New Permittee¹ Name</p> </td> <td style="width: 50%; border: none;"> <p>_____</p> <p>Print Previous Permittee¹ Name</p> </td> </tr> <tr> <td style="border: none;"> <p>_____</p> <p>New Authorized Signature²</p> </td> <td style="border: none;"> <p>_____</p> <p>Previous Authorized Signature²</p> </td> </tr> <tr> <td style="border: none;"> <p>_____</p> <p>Title</p> </td> <td style="border: none;"> <p>_____</p> <p>Title</p> </td> </tr> <tr> <td style="border: none;"> <p>_____</p> <p>Date</p> </td> <td style="border: none;"> <p>_____</p> <p>Date</p> </td> </tr> </table>		<p>_____</p> <p>Print New Permittee¹ Name</p>	<p>_____</p> <p>Print Previous Permittee¹ Name</p>	<p>_____</p> <p>New Authorized Signature²</p>	<p>_____</p> <p>Previous Authorized Signature²</p>	<p>_____</p> <p>Title</p>	<p>_____</p> <p>Title</p>	<p>_____</p> <p>Date</p>	<p>_____</p> <p>Date</p>
<p>_____</p> <p>Print New Permittee¹ Name</p>	<p>_____</p> <p>Print Previous Permittee¹ Name</p>								
<p>_____</p> <p>New Authorized Signature²</p>	<p>_____</p> <p>Previous Authorized Signature²</p>								
<p>_____</p> <p>Title</p>	<p>_____</p> <p>Title</p>								
<p>_____</p> <p>Date</p>	<p>_____</p> <p>Date</p>								

¹A Permittee is a company or individual that has been issued an individual permit or coverage under a general permit.

²Authorized Signature must be owner or in the case of a corporation, a corporate officer as defined in Regulations 11 Miss. Admin. Code Pt. 2, Ch. 2, and 11 Miss. Admin. Code Pt. 6, Ch. 1.

Mississippi Department of Environmental Quality/Office of Pollution Control
P.O. Box 2261
Jackson, Mississippi 39225
(601) 961-5171

<p>Item X. Storm Water</p> <p>(Check One)</p> <p><input type="checkbox"/> A Storm Water Pollution Prevention Plan (SWPPP) is not required for the site.</p> <p><input type="checkbox"/> The recipient certifies that they have received a copy of the Office of Pollution Control approved SWPPP from the original owner.</p> <p><input type="checkbox"/> The recipient is submitting a new SWPPP, which is attached to this form.</p> <p><input type="checkbox"/> A copy of the SWPPP cannot be obtained from the original owner.</p>	<p>Item XI. Hazardous Waste ID Number</p> <p>EPA ID No. _____</p> <p>(Check One)</p> <p><input type="checkbox"/> An EPA Hazardous Waste ID Number is not required for the site.</p> <p><input type="checkbox"/> The site's EPA ID Number is listed above and a Notification of Regulated Waste Activity Form is attached.</p>
--	---

Item XII. Permit(s) and/or Coverage(s) to be Transferred

<p>Permit Type: _____</p> <p>Permit/Coverage No.: _____</p> <p>Permit Issuance Date: _____</p> <p>Date of General Permit Coverage: _____</p> <p>Permit Expiration Date: _____</p>	<p>Permit Type: _____</p> <p>Permit/Coverage No.: _____</p> <p>Permit Issuance Date: _____</p> <p>Date of General Permit Coverage: _____</p> <p>Permit Expiration Date: _____</p>
<p>Permit Type: _____</p> <p>Permit/Coverage No.: _____</p> <p>Permit Issuance Date: _____</p> <p>Date of General Permit Coverage: _____</p> <p>Permit Expiration Date: _____</p>	<p>Permit Type: _____</p> <p>Permit/Coverage No.: _____</p> <p>Permit Issuance Date: _____</p> <p>Date of General Permit Coverage: _____</p> <p>Permit Expiration Date: _____</p>
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<p>Permit Type: _____</p> <p>Permit/Coverage No.: _____</p> <p>Permit Issuance Date: _____</p> <p>Date of General Permit Coverage: _____</p> <p>Permit Expiration Date: _____</p>	<p>OTHER INFORMATION:</p>

INSPECTION SUSPENSION FORM

UNDER LARGE CONSTRUCTION STORM WATER GENERAL NPDES PERMIT MSR10



MISSISSIPPI DEPARTMENT OF
ENVIRONMENTAL QUALITY

INSTRUCTIONS

Coverage recipients under Mississippi's Large Construction Storm Water General Permit may temporarily suspend required weekly inspections of erosion and sediment controls and monthly record keeping by submission of this form. Inspections may be suspended only when land disturbing activities have ceased, no further land disturbing activities are planned for a period of at least six (6) months, the site is stable with no active erosion, and vegetative cover has been established (see ACT9, S-1). The coverage recipient is responsible for all permit conditions during the suspension period and nothing in this condition shall limit the rights of MDEQ to take enforcement or other actions against the coverage recipient. Once land disturbing activities resume MDEQ must be notified and all inspections and record keeping required by the permit must also resume. Color photographs, representative of the construction site, must be submitted with this inspection form.

COVERAGE RECIPIENT INFORMATION

COVERAGE RECIPIENT CONTACT PERSON: _____
COMPANY NAME: _____
STREET OR P.O. BOX: _____
CITY: _____ STATE: _____ ZIP: _____
PHONE # (INCLUDE AREA CODE): _____ E-MAIL: _____

PROJECT INFORMATION

CONSTRUCTION STORM WATER GENERAL PERMIT COVERAGE NUMBER: **MSR10** _____
PROJECT NAME: _____
CITY: _____ COUNTY: _____

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations. **I further certify that: land disturbing activities have ceased, no further land disturbing activities are planned for a period of at least six (6) months, the site is stable with no active erosion, and vegetative cover has been established.**

Signature (must be signed by coverage recipient)

Date Signed

Printed Name

Title

Please submit this form to:

Chief, Environmental Permits Division
MS Department of Environmental Quality, Office of Pollution Control
P.O. Box 2261
Jackson, Mississippi 39225

Request for Termination (RFT) of Coverage



LARGE CONSTRUCTION GENERAL PERMIT
Coverage No. MSR10 _____ County _____
(Fill in your Certificate of Coverage Number and County)

This form must be submitted within thirty (30) days of achieving final stabilization (see ACT10, S-1 of general permit). Failure to submit this form is a violation of permit conditions.

The signatory of this form must be the owner or operator (prime contractor) who is the current coverage recipient (rather than the project manager or environmental consultant).

(Please Print or Type)

Project Name: _____

Physical Site Street Address (if not available, indicate nearest named road): _____

City: _____ County: _____ Zip: _____

Coverage Recipient Company Name: _____

Street Address / P.O. Box: _____

City: _____ State: _____ Zip: _____

Coverage Recipient Contact Name and Position: _____ Tel. #: (____) _____

Has another owner(s) or operator(s) assumed control over all areas of the site that have not reached final stabilization?

RESIDENTIAL SUBDIVISIONS:

- YES. A copy of the Registration Form for Residential Lot Coverage for each lot or out parcel that has been sold and a site map, indicating which lots have been sold, are attached.
- NO. Coverage may not be terminated until all areas have reached final stabilization.

COMMERCIAL DEVELOPMENT:

- YES. A copy of the site map, indicating which out-parcels have been sold, is attached.
- NO. Coverage may not be terminated until all areas have reached final stabilization.

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fines and imprisonment for knowing violations. I understand that by submitting this Request for Termination and receiving written confirmation, I will no longer be authorized to discharge storm water associated with construction activity under this general permit. Discharging pollutants associated with construction activity to waters of the State without proper permit coverage is a violation of state law. I also understand that the submittal of this Request for Termination does not release an owner or operator from liability for any violations of this permit or the Clean Water Act.

Authorized Name (Print)

Telephone

Signature

Date Signed

This application shall be signed according to the General Permit, ACT11, T-7 as follows:

- For a corporation, by a responsible corporate officer.
- For a partnership, by a general partner.
- For a sole proprietorship, by the proprietor.
- For a municipal, state or other public facility, by principal executive officer, mayor, or ranking elected official.

After signing please mail to: Chief, Environmental Permits Division
MS Department of Environmental Quality, Office of Pollution Control
P.O. Box 2261
Jackson, Mississippi 39225

NARRATIVE

Narrative of Storm Water Prevention Plan for The Groves at Old Mill Subdivision Phase 2

Project Description

The Groves at Old Mill Subdivision is the second phase of a master plan of a multi-phase development around 2008 where only the first phase was ever constructed. Large detention/retention ponds were created to accommodate the entire development. Since that time the rest of the property has been sold and remains in agricultural fields so this phase 2 will likely be the final phase.

Adjacent Property

The adjacent properties consist of phase one of Old Mill to the south, and agricultural lands adjacent on the remaining boundary.

Planned Erosion, Sediment, and Storm water Control Practices

1. Silt Fence - Place silt fence at the bottom of any slope steeper than 5:1 and around the perimeter of the site. Replace at 50% capacity before overtopping occurs.
2. Permanent Seeding - Establish a permanent grass in all disturbed areas. These areas may be seeded or sodded. Cover cannot be certified until after a minimum of 6 weeks of establishment and at least 1/2" of rainfall has occurred.
3. Straw wattles - Placed with the silt fence around pipe culverts for added protection.
4. **Special Provision** – Temporary seeding must be initiated immediately whenever any clearing, grading, excavating or other land disturbing activities have been left undisturbed 14 or more days.
5. Construction Entrance – provide riprap washout for vehicles to have tires cleaned before entering roadways leaving site.
6. Detention Basins – Designed as construction storm water silt ponds and converted into post construction permanent retention basins.
7. All areas near waters of the state shall maintain a minimum of a 50 foot buffer. In areas where said 50 foot buffer cannot be maintained, special additional controls

are required. These areas will have a double row of silt fence with 8 feet separation in front of a woody debris wind-row laid solid.

Good Housekeeping Practices

1. Vehicles entering the roadway shall be washed down (if muddy) prior to entering the roadway. The vehicle will past over a limestone (10 lbs riprap) bed and be washed down of the major portion of mud. Where sediment has been tracked-out from the site onto paved roads, sidewalks, or other paved areas outside the site, remove deposited sediment “immediately” by the end of the next work day. Remove the track-out by sweeping, shoveling, or vacuuming these surfaces, or by similarly effective means of sediment removal.
2. Equipment maintenance and repairs shall only be performed on upland areas with a 12” dirt berm installed around the perimeter of the work area. Proper chemicals shall be on hand to be placed on fluid spills in accordance with manufacturers recommendations. All contaminated soil shall be loaded and properly disposed of in a certified landfill accepting hazardous material.
3. Waste receptacles shall be placed where the work is being performed and shall move with the work. The contractor shall not let a full container stand for more than 48 hours before changing out or 7 days, whichever comes first.
4. Pota-lets shall be made available and used.

Implementation Sequence

Make sure plan is incorporated into the site work contractor’s contract or the general contractor, if applicable, and have said contractor sign prime contractors certification form placing responsibility on the contractor during construction.

Construct the construction entrance/exit.

Install all perimeter silt fence.

Install detention basins and protect.

Install all ditches and pipes and protect.

Complete site clearing and grass disturbed areas.

Construct roads.

Make sure all temporary controls are in-place immediately following site clearing.

Topsoil all disturbed areas and establish permanent grass or pave.

After site is stabilized, remove all temporary controls and implement all permanent sedimentation controls.

Weekly inspection reports should be made and submitted at the end of the project by the responsible party.

Short Term Maintenance Plan

1. Check all controls after all rainfall events and at least once a week.
2. Any poorly functioning erosion controls or sediment controls, non-compliant discharges, or any other deficiencies observed during the inspections required under this permit shall be corrected as soon as possible, but not to exceed 24 hours of the inspection unless prevented by unsafe weather conditions as documented on the inspection form
3. Sediment will be removed from structure BMPs when it has reached 1/3 to 1/2 height of the control and 50% capacity of sediment basin.
4. Re-fertilize and reseed all exposed areas as needed.
5. Inspections as required by the general permit. Inspections are required for the entire project weekly with a minimum of 4 and after rainfall events that produce a discharge.
6. FINAL STABILIZATION means that either: (1) All soil disturbing activities at the site have been completed, and that a uniform perennial vegetative cover with a density of at least 70% for the area has been established or equivalent measures (e.g., concrete or asphalt paving, rip rap, etc.) have been employed; or (2) For individual lots part of a larger common plan of development or sale in residential or commercial developments, that either: (A) The coverage recipient has completed final stabilization as specified in (1) above, or (B) The coverage recipient has established temporary stabilization before another property owner assumes operational control for the property AND the coverage recipient for the larger common plan of development has provided the appropriate Notice of Intent or Registration form, the appropriate Construction General Permit, and guidance

documents to the new property owner and the new owner assumes control by completing the appropriate NOI or Registration Form.

Long Term Maintenance Plan

1. Maintain or restore all vegetated areas to provide good ground cover.
2. The Owner will inspect the site periodically to check for maintenance issues.
3. During the construction phase, the prime contractor shall be the responsible party to make sure this plan is executed correctly.
4. After the contractor is finished, the Owner shall be the responsible party.
5. Should the owner lease, sub-lease or sell all or a portion of the property, the owner shall assign responsibility to the new party in written form. A copy of said form shall be sent to the Office of Pollution Control for concurrence.
6. Post construction measures will be the detention ponds, owned by the home owner's association.
7. Each lot owner will be subject to this SWPPP and are to follow the rules and apply for an individual lot coverage permit.
8. All records shall be kept for a period of 3 years from completion.

Staff Training Requirements per ACT5 of General Permit

T-20 STAFF TRAINING REQUIREMENTS Each operator, or group of multiple operators, must assemble a "stormwater team" to carry out compliance activities associated with the requirements in this permit Prior to the commencement of construction activities, the permittee must ensure that the following personnel on the stormwater team understand the requirements of this permit and their specific responsibilities with respect to those requirements: (1) Personnel who are responsible for the design, installation, maintenance, and/or repair of stormwater controls (including pollution prevention controls); (2) Personnel responsible for the application and storage of treatment chemicals (if applicable) (3) Personnel who are responsible for conducting inspections as required in ACT6, S-5; and (4) Personnel who are responsible for taking corrective actions as required in ACT6, S-2. The permittee is responsible for ensuring

that all activities on the site comply with the requirements of this permit. The permittee is not required to provide or document formal training for subcontractors or other outside service providers, but the permittee must ensure that such personnel understand any requirements of this permit that may be affected by the work they are subcontracted to perform. At a minimum, members of the stormwater team must be trained to understand the following if related to the scope of their job duties (e.g., only personnel responsible for conducting inspections need to understand how to conduct inspections): The permit deadlines associated with installation, maintenance, and removal of stormwater controls and with stabilization; Large Construction Storm Water General Permit ACT5 (continued): Page 23 of 45 Narrative Requirements: Condition No. Condition The location of all stormwater controls on the site required by this permit and how they are to be maintained; The proper procedures to follow with respect to the permit's pollution prevention requirements; and When and how to conduct inspections, record applicable findings, and take corrective actions. Each member of the stormwater team must have easy access to an electronic or paper copy of applicable portions of this permit, the most updated copy of the SWPPP, and other relevant documents or information that must be kept with the SWPPP.

T-21 STAFF TRAINING DOCUMENTATION Staff Training conducted to meet the requirements of this ACT shall be documented. Training records shall include employee's name, date of training, brief content/nature of training, and the employee's signature acknowledging training was received. Staff training associated with this permit may be documented on the Employee Training Log that is provided on the MDEQ website at www.mdeq.ms.gov/construction-stormwater/. The permittee may use an alternative form to record this information, so long as it includes all of the information on the above referenced form. Employee training documentation shall be maintained on-site with the SWPPP and made available to MDEQ personnel for inspection upon request.

END

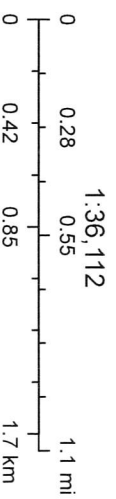
MAPS

Old Mill Phase 2



2/27/2025, 9:47:12 AM

Override 1



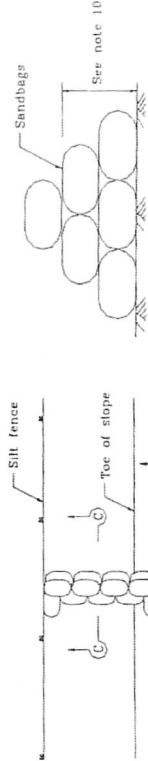
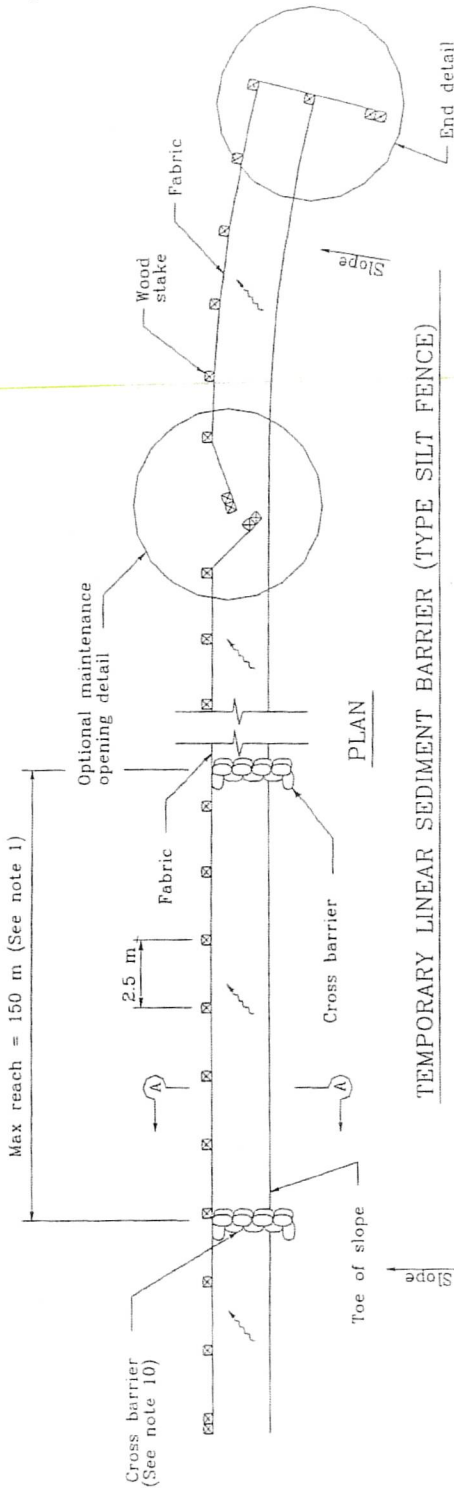
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ArcGIS Web AppBuilder
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Details

Silt Fence

SC-1



STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION
TEMPORARY LINEAR SEDIMENT BARRIER
(TYPE SILT FENCE)

NO SCALE
ALL DIMENSIONS ARE IN
MILLIMETERS UNLESS OTHERWISE SHOWN

NOTES

1. Construct the length of each reach so that the change in base of each stake does not exceed 1/3 the height of the linear barrier; in no case shall the reach length exceed 150m.
2. The last 2.5 m of fence shall be turned up slope.
3. Stake dimensions are nominal.
4. Dimension may vary to fit field condition.
5. Stakes shall be spaced at 2.5 m maximum and shall be positioned on downstream side of fence.
6. Stakes to overlap and fence fabric to fold around each stake one full turn. Secure fabric to stake with 4 staples.
7. Stakes shall be driven tightly together to prevent potential flow-through of sediment at joint. The tops of the stakes shall be secured with wire.
8. For end stake, fence fabric shall be folded around two stakes one full turn and secured with 4 staples.
9. Minimum 4 staples per stake. Dimensions shown are typical.
10. Cross barriers shall be a minimum of 1/3 and a maximum of 1/2 the height of the linear barrier.
11. Maintenance openings shall be constructed in a manner to ensure sediment remains behind silt fence.
12. Joining sections shall not be placed at sump locations.
13. Sandbag rows and layers shall be offset to eliminate gaps.

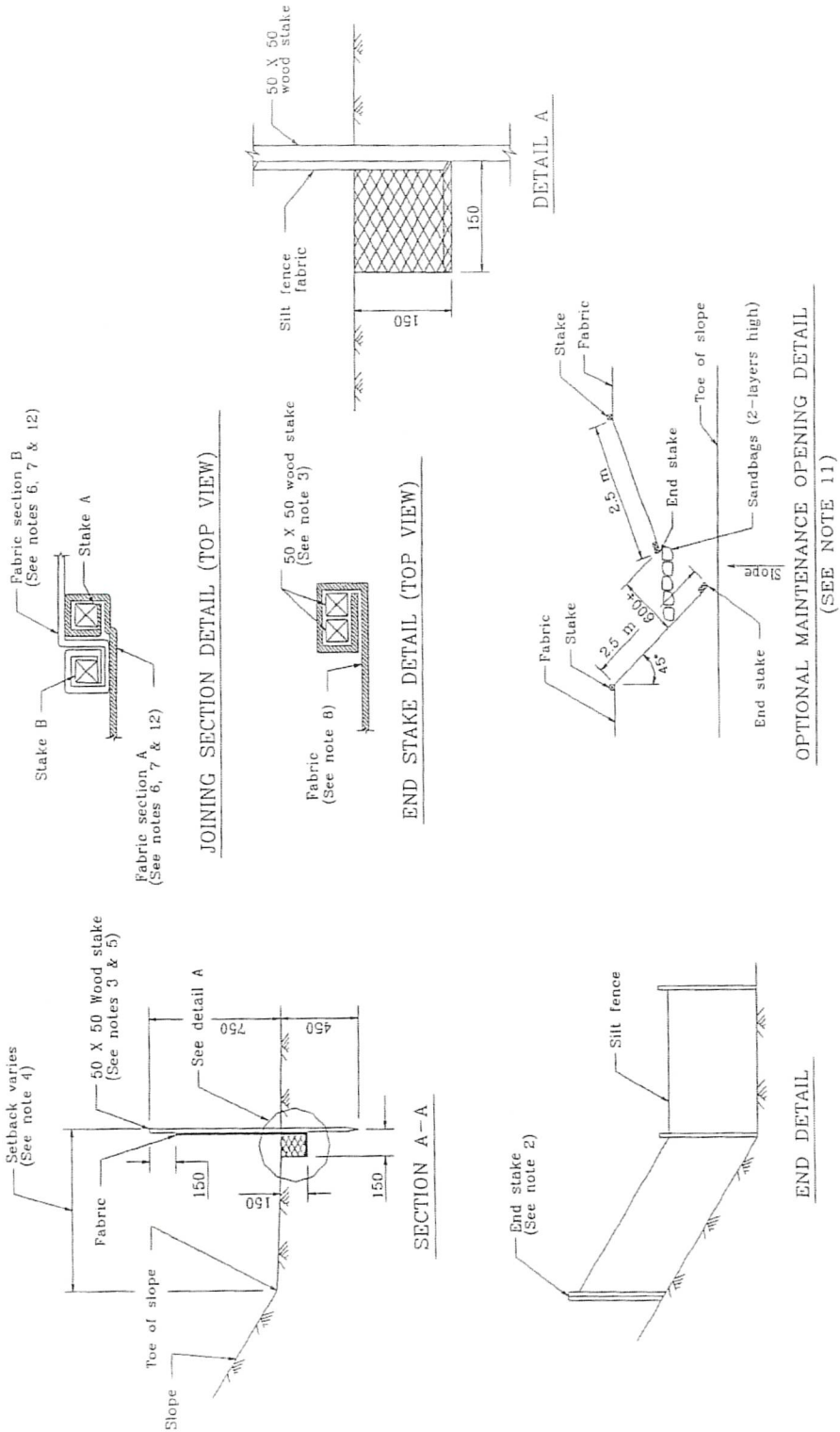
LEGEND

- Tamped backfill
- Slope direction
- Direction of flow



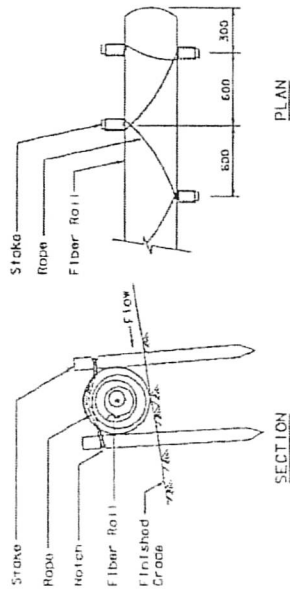
Silt Fence

SC-1



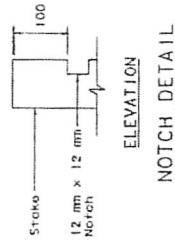
Check Dams

SC-4



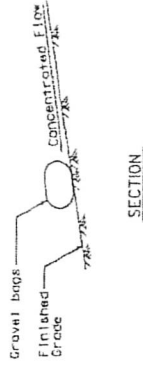
SECTION

STAKING AND LASHING DETAIL



ELEVATION

NOTCH DETAIL

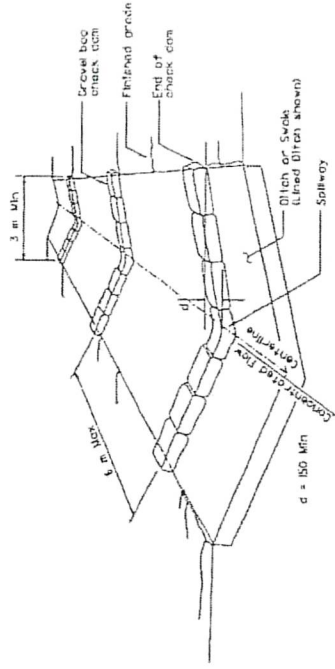


SECTION

NOTE

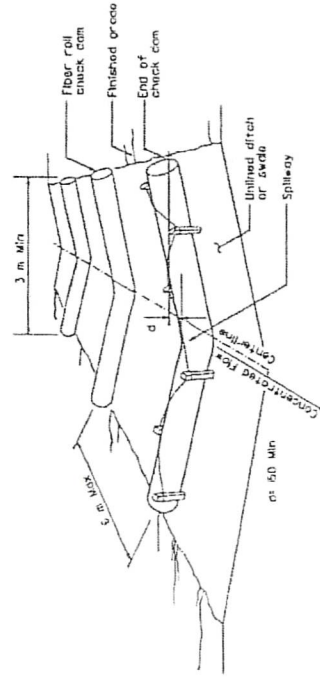
1. Splice design or tied by notched to prevent tearing of concentrated flow around the ends of check dam.

TEMPORARY CHECK DAM (TYPE 2)



PERSPECTIVE

TEMPORARY CHECK DAM (TYPE 2)

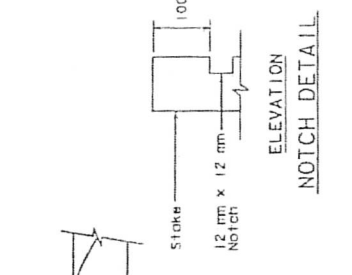
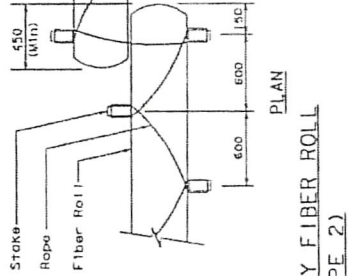
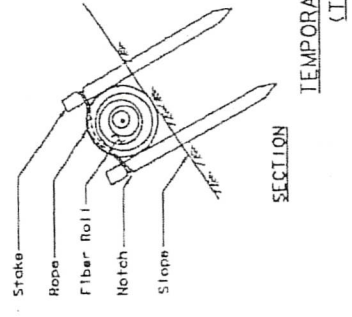
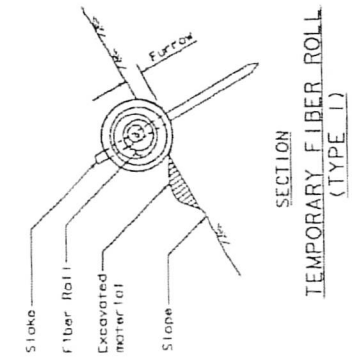


PERSPECTIVE

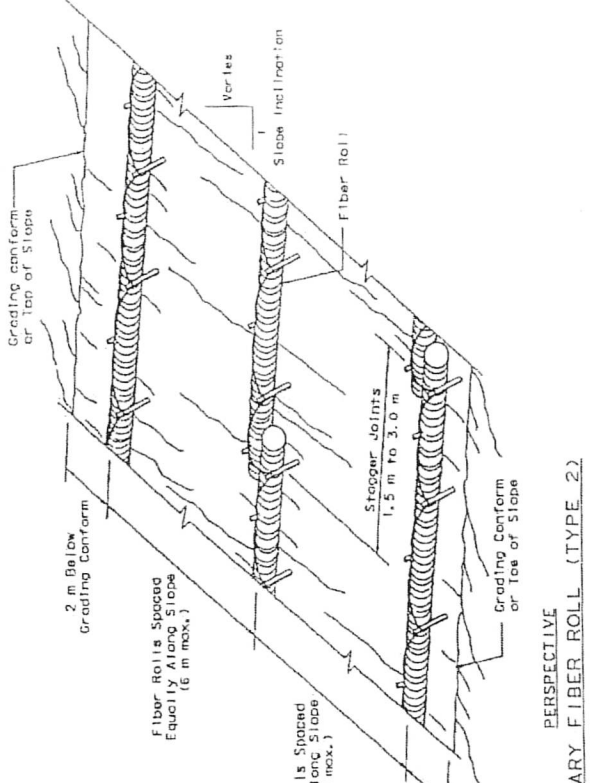
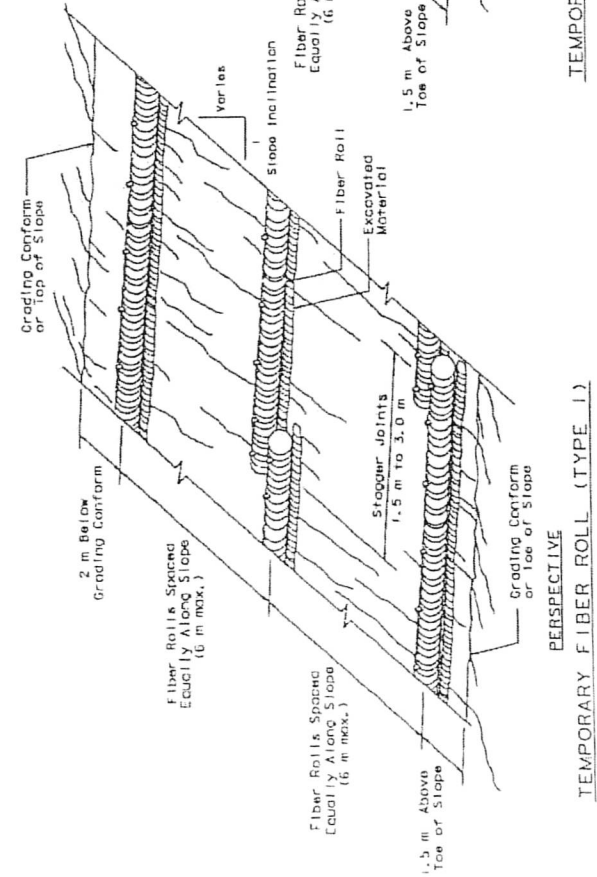
TEMPORARY CHECK DAM (TYPE 1)

Fiber Rolls

SC-5

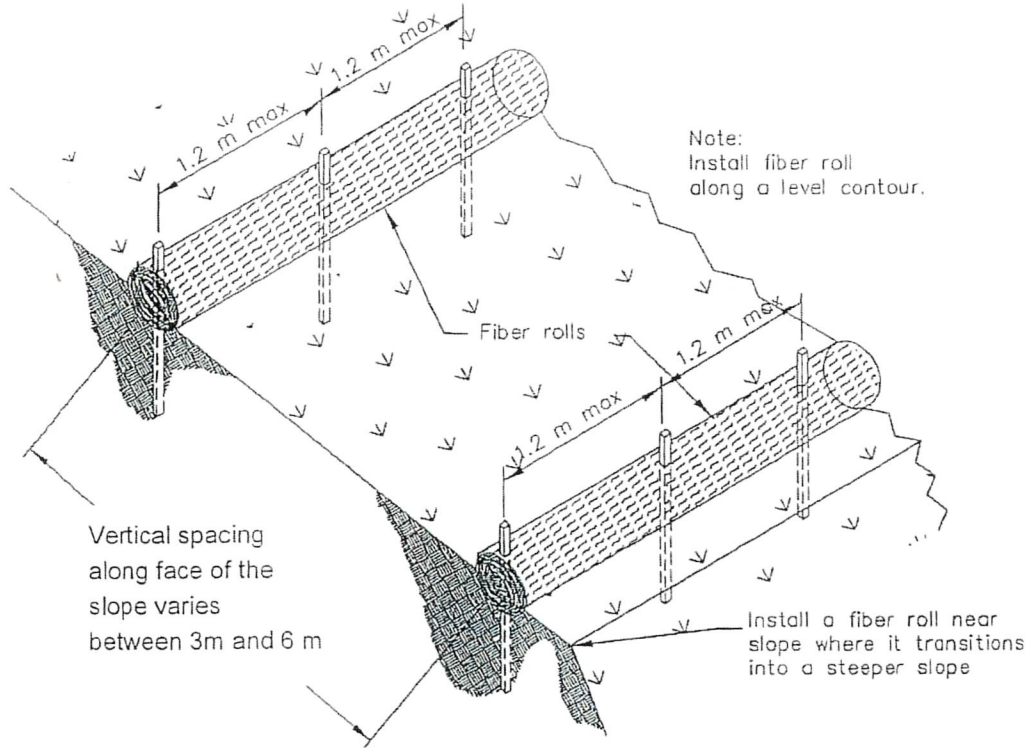


NOTE
1. Temporary fiber roll spacing varies depending upon slope inclination.

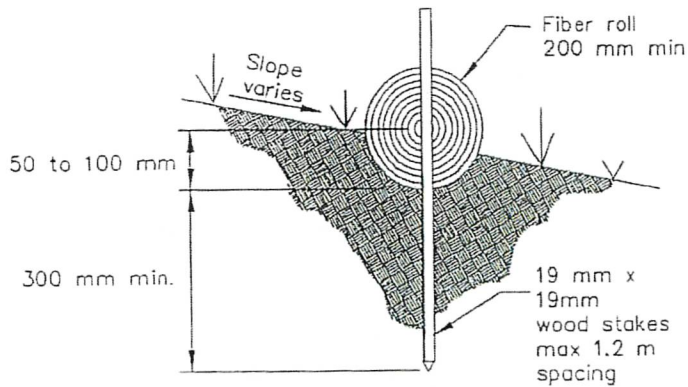


Fiber Rolls

SC-5



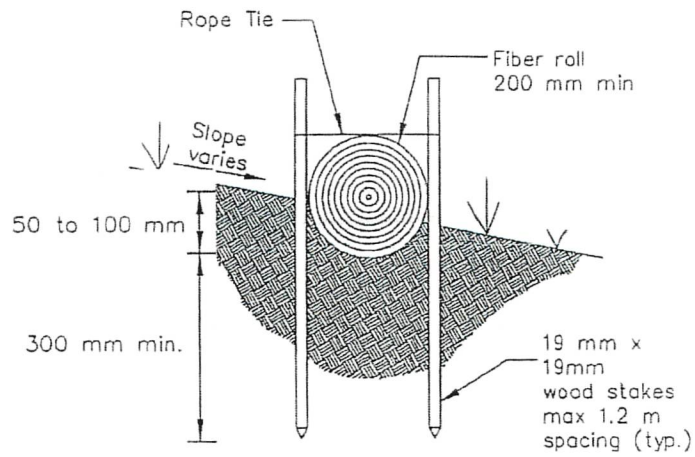
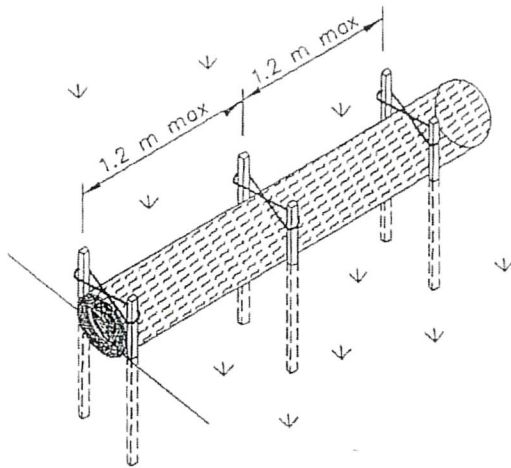
TYPICAL FIBER ROLL INSTALLATION
N.T.S.



ENTRENCHMENT DETAIL
N.T.S.

Fiber Rolls

SC-5

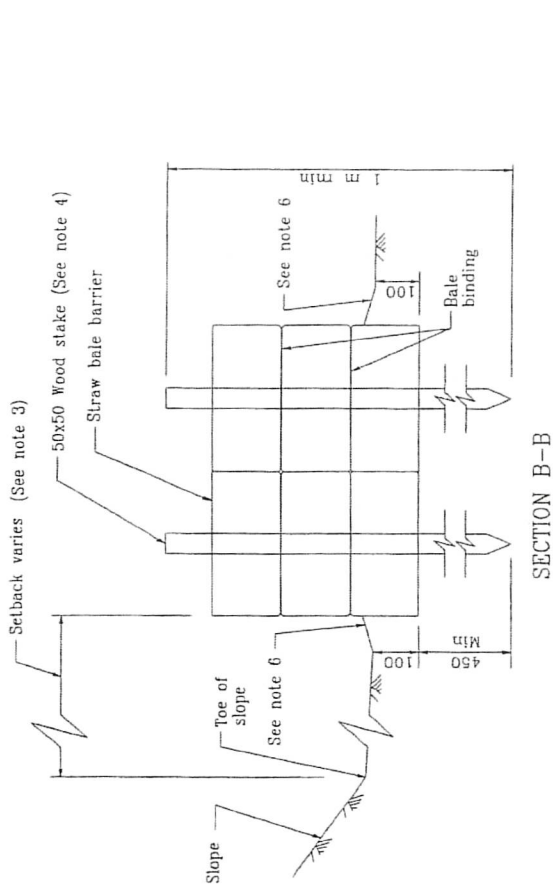


OPTIONAL ENTRENCHMENT DETAIL

N.T.S.

Straw Bale Barrier

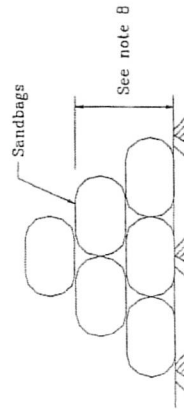
SC-9



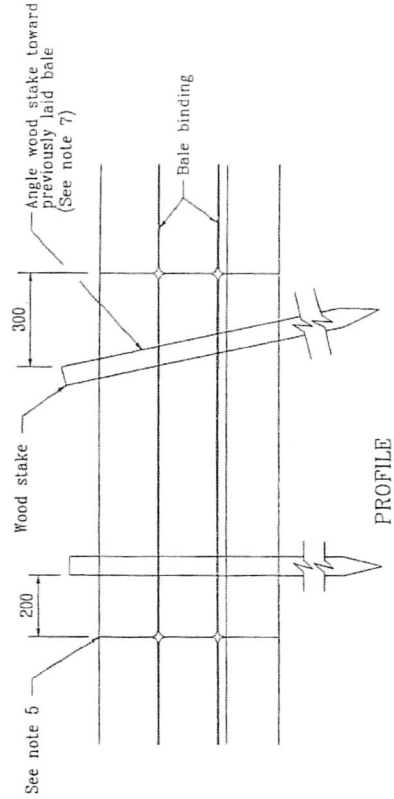
SECTION B-B

LEGEND

DIRECTION OF FLOW



SANDBAG CROSS BARRIER

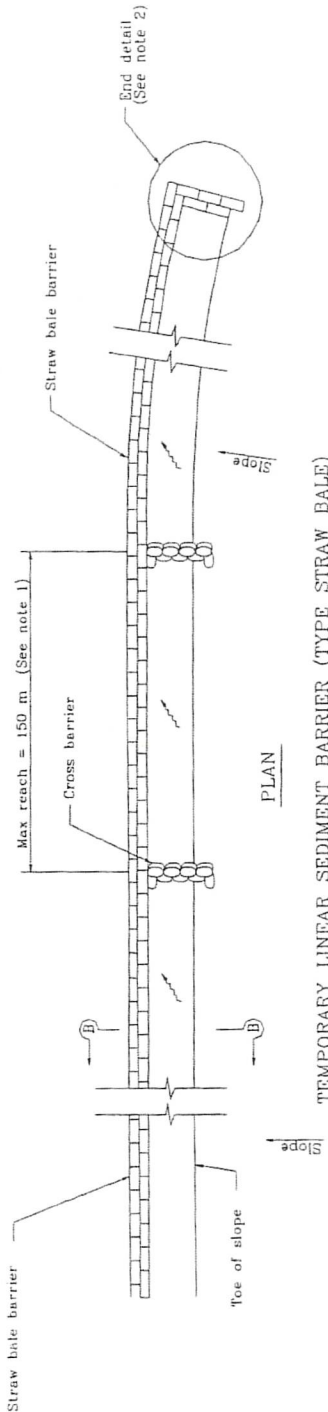


STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION
TEMPORARY LINEAR SEDIMENT BARRIER
(TYPE STRAW BALE)
NO SCALE
ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SHOWN



Straw Bale Barrier

SC-9

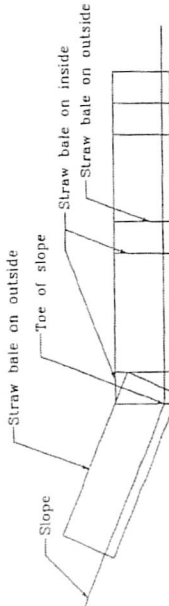


TEMPORARY LINEAR SEDIMENT BARRIER (TYPE STRAW BALE)



NOTES

1. Construct the length of each reach so that the change in base elevation along the reach does not exceed $1/2$ the height of the linear barrier. In no case shall the reach length exceed 150 m.
2. The end of barrier shall be turned up slope.
3. Dimension may vary to fit field condition
4. Stake dimensions are nominal.
5. Place straw bales tightly together.
6. Tamp embedment spoils against sides of installed bales.
7. Drive angled wood stake before vertical stake to ensure tight abutment to adjacent bale.
8. Cross barriers shall be a min of $1/2$ and a max of $2/3$ the height of the linear barrier.
9. Sandbag rows and layers shall be offset to eliminate gaps.



END DETAIL

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

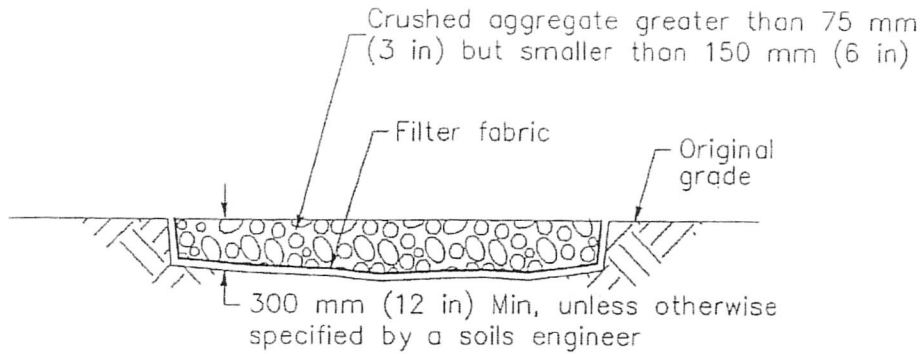
TEMPORARY LINEAR SEDIMENT BARRIER (TYPE STRAW BALE)

NO SCALE

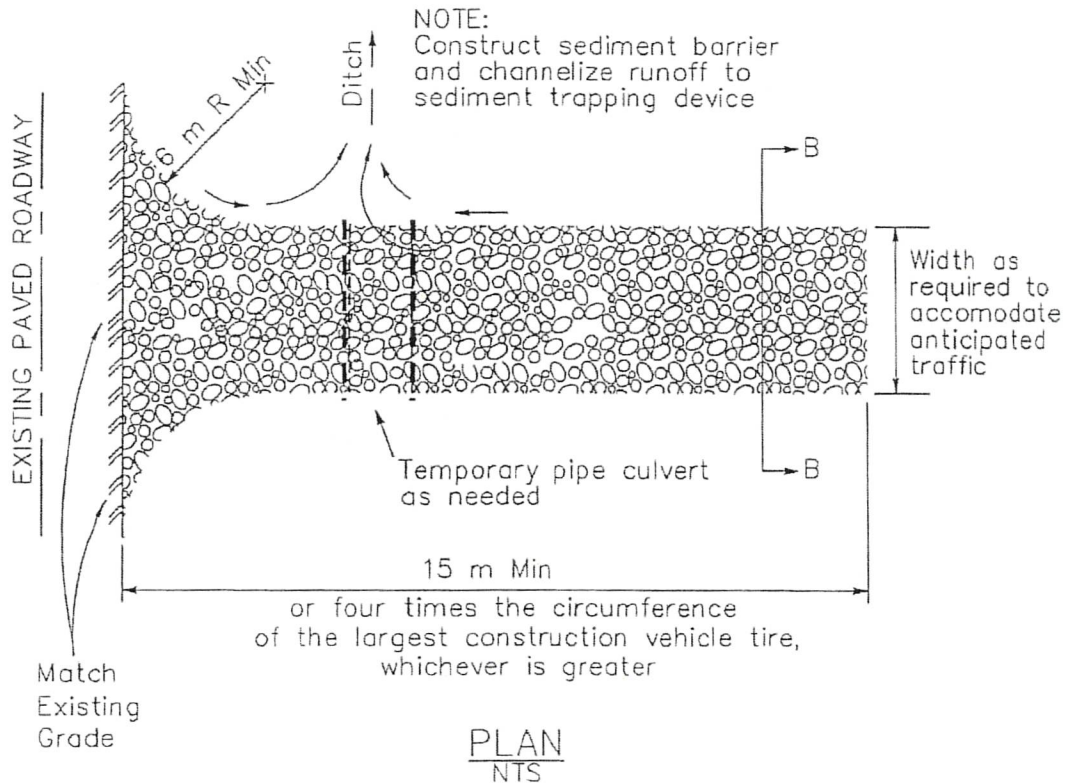
ALL DIMENSIONS ARE IN
MILLIMETERS UNLESS OTHERWISE SHOWN

Stabilized Construction Entrance/Exit

TC-1



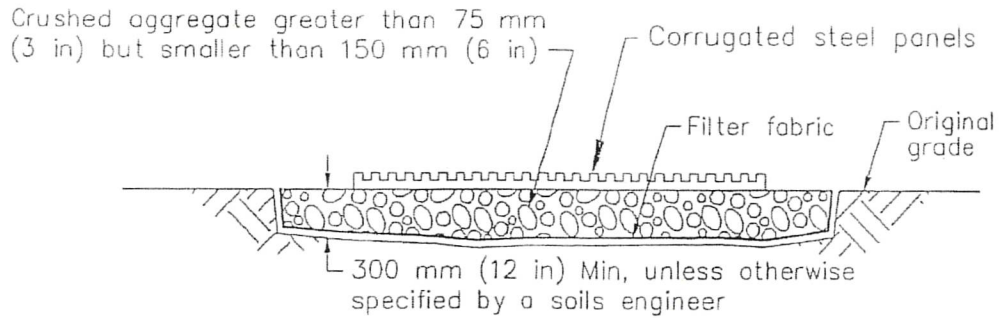
SECTION B-B
NTS



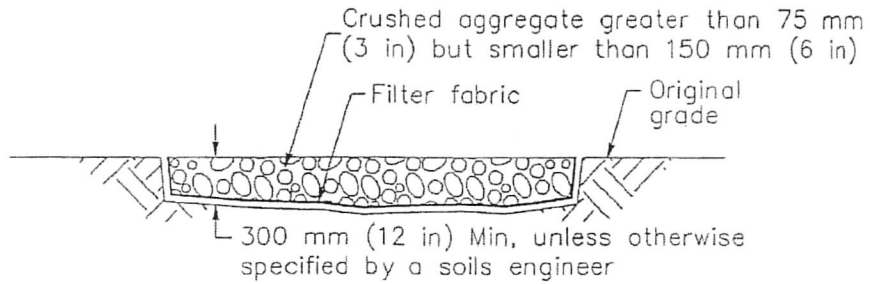
Stabilized Construction Entrance/Exit (Type 1)

Entrance/Outlet Tire Wash

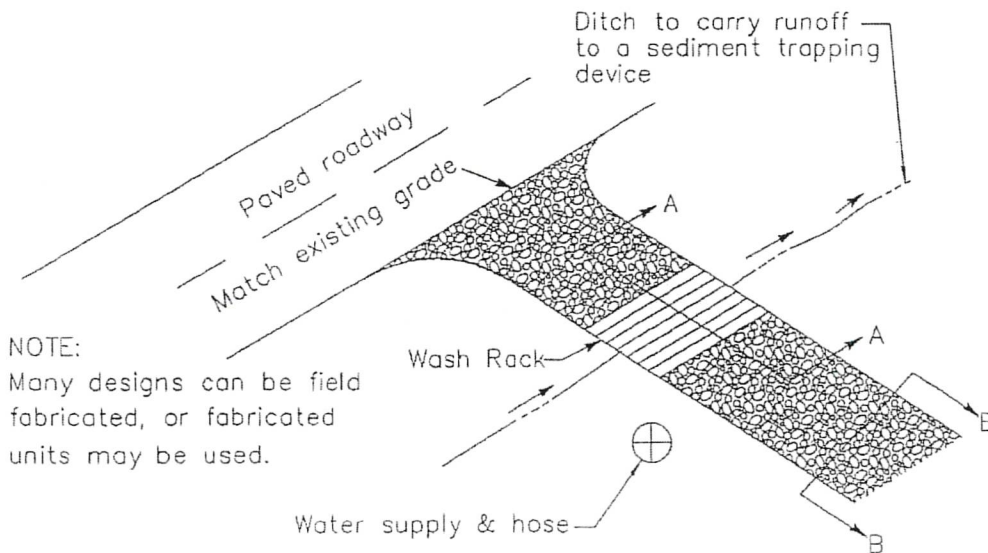
TC-3



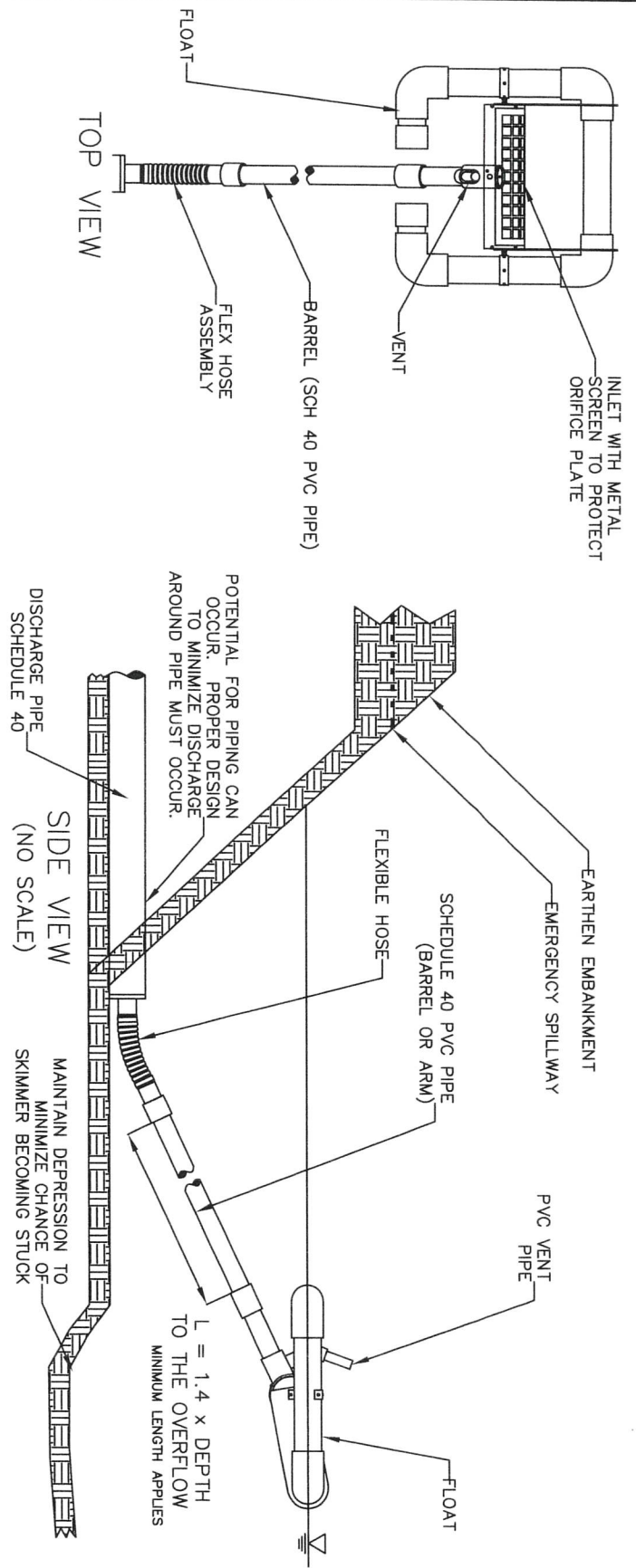
SECTION A-A
NOT TO SCALE



SECTION B-B
NTS



TYPICAL TIRE WASH
NOT TO SCALE



THE GROVE AT OLD MILL LANDING

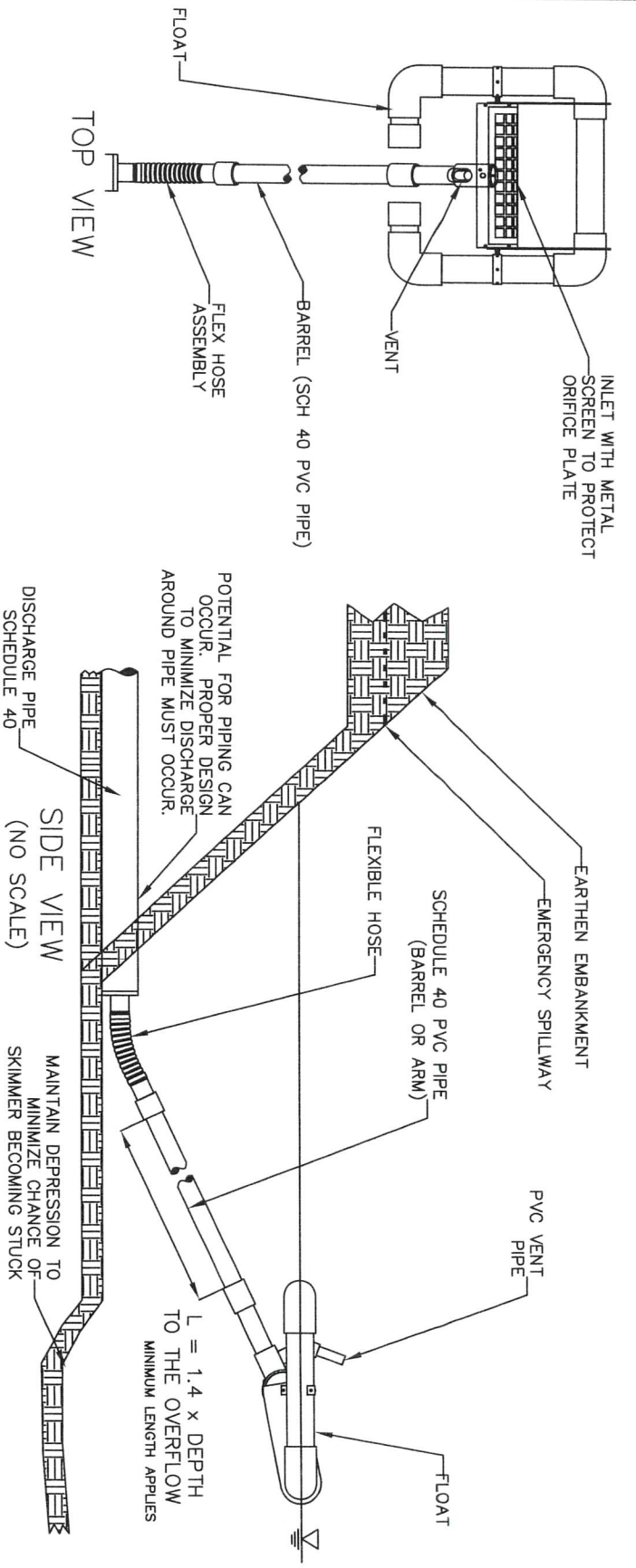
Name	Skimmer Size	Orifice Dia.	Orifice RAD	Required Basin Volume	Days to Drain
POND #2	3"	2 1/2"	1 1/4"	20160	3

- GENERAL NOTES:**
1. FAIRCLOTH SKIMMER® FLOW RATES WERE USED AS THE BASIS OF DESIGN WHEN DETERMINING DRAINAGE CALCULATIONS. UTILIZING A PRODUCT FROM AN ALTERNATIVE MANUFACTURER WILL CREATE A SIGNIFICANT DEVIATION TO THE DESIGN AND MUST BE APPROVED AND RECALCULATED BY THE DESIGN ENGINEER.
 2. PROPER ORIFICE OPENING MUST BE SELECTED TO ENSURE POND DRAINS IN CORRECT AMOUNT OF TIME. MODIFICATIONS MAY BE REQUIRED IF FIELD CONDITIONS WARRANT A CHANGE.
 3. BARREL PIPE SHOULD BE 1.4 X DEPTH OF THE BASIN TO ENSURE PROPER FUNCTION.

DRAWN BY T. R. EVANS 08/24

FAIRCLOTH SKIMMER® DISCHARGE SYSTEM WITH EMBANKMENT

FAIRCLOTH SKIMMER
 WWW.FAIRCLOTHSKIMMER.COM
 TELEPHONE: (919) 732-1244
 FAX: (919) 732-1286
 EMAIL: SALES@FAIRCLOTHSKIMMER.COM



THE GROVE AT OLD MILL LANDING

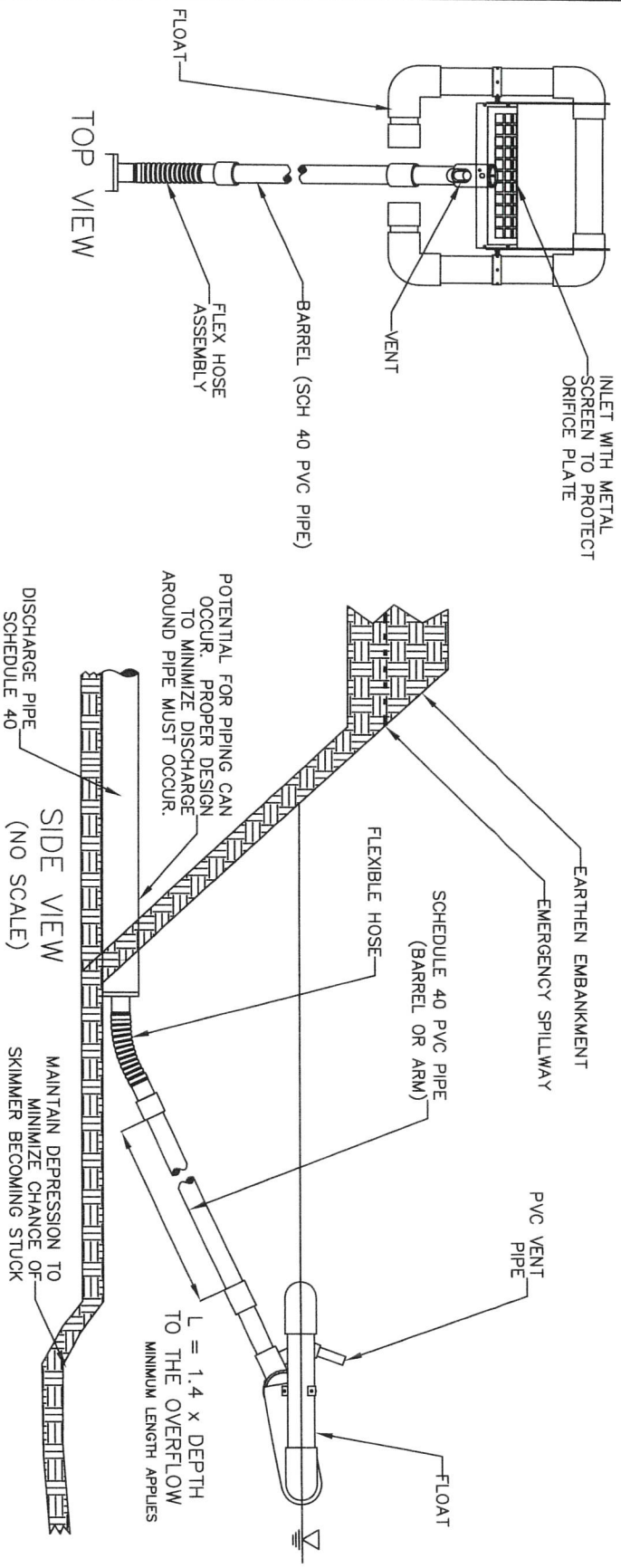
Name	Skimmer Size	Orifice Dia.	Orifice RAD	Required Basin Volume	Days to Drain
POND #3	2 1/2"	2 3/16"	1 1/8"	14040	3

- GENERAL NOTES:**
1. FAIRCLOTH SKIMMER® FLOW RATES WERE USED AS THE BASIS OF DESIGN WHEN DETERMINING DRAINAGE CALCULATIONS. UTILIZING A PRODUCT FROM AN ALTERNATIVE MANUFACTURER WILL CREATE A SIGNIFICANT DEVIATION TO THE DESIGN AND MUST BE APPROVED AND RECALCULATED BY THE DESIGN ENGINEER.
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DRAWN BY T. R. EVANS 08/24

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 EMAIL: SALES@FAIRCLOTHSKIMMER.COM



THE GROVE AT OLD MILL LANDING

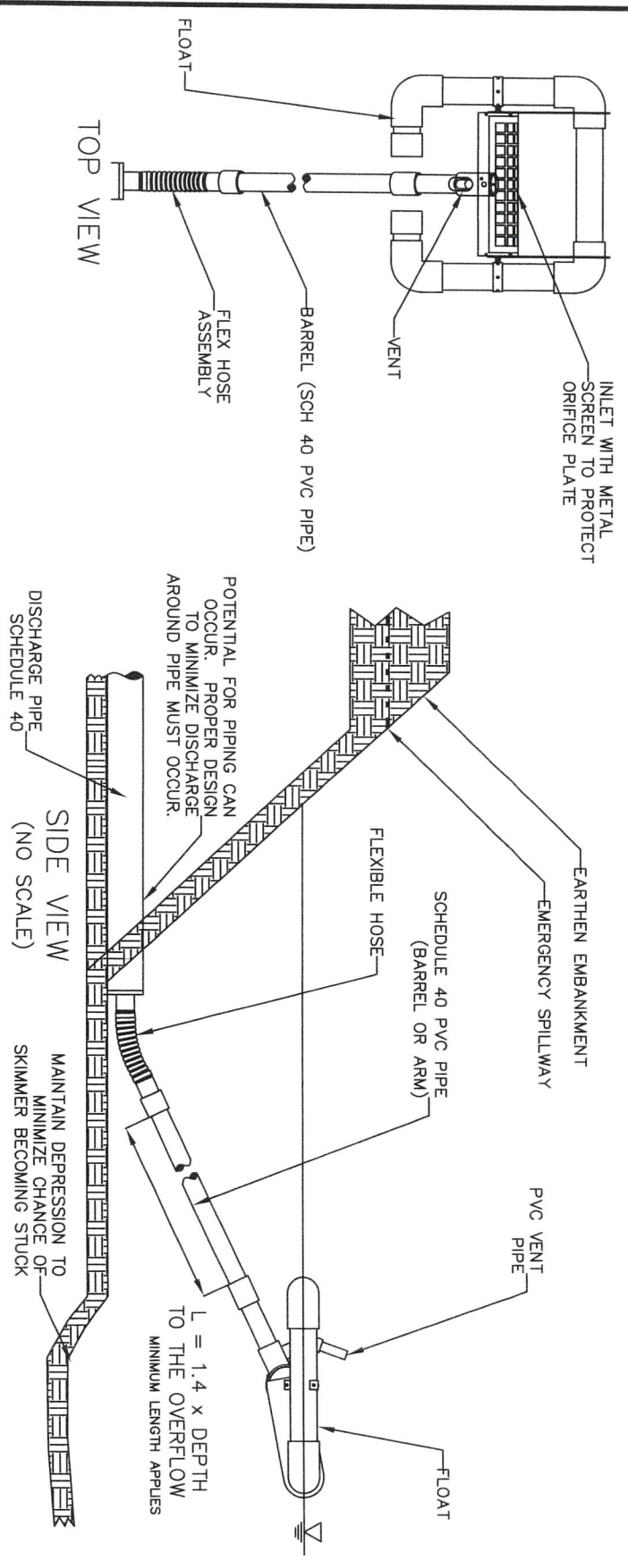
Name	Skimmer Size	Orifice Dia.	Orifice RAD	Required Basin Volume	Days to Drain
POND #4	6"	5 3/4"	2 7/8"	142840	3

- GENERAL NOTES:**
1. FAIRCLOTH SKIMMER® FLOW RATES WERE USED AS THE BASIS OF DESIGN WHEN DETERMINING DRAINAGE CALCULATIONS. UTILIZING A PRODUCT FROM AN ALTERNATIVE MANUFACTURER WILL CREATE A SIGNIFICANT DEVIATION TO THE DESIGN AND MUST BE APPROVED AND RECALCULATED BY THE DESIGN ENGINEER.
 2. PROPER ORIFICE OPENING MUST BE SELECTED TO ENSURE POND DRAINS IN CORRECT AMOUNT OF TIME. MODIFICATIONS MAY BE REQUIRED IF FIELD CONDITIONS WARRANT A CHANGE.
 3. BARREL PIPE SHOULD BE 1.4 X DEPTH OF THE BASIN TO ENSURE PROPER FUNCTION.

DRAWN BY T. R. EVANS 08/24

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THE GROVE AT OLD MILL LANDING

Name	Skimmer Size	Orifice Dia.	Orifice RAD	Required Basin Volume	Days to Drain
POND #5	3"	2 1/2"	1 1/4"	20880	3

- GENERAL NOTES:**
1. FAIRCLOTH SKIMMER® FLOW RATES WERE USED AS THE BASIS OF DESIGN WHEN DETERMINING DRAINAGE CALCULATIONS. UTILIZING A PRODUCT FROM AN ALTERNATIVE MANUFACTURER WILL CREATE A SIGNIFICANT DEVIATION TO THE DESIGN AND MUST BE APPROVED AND RECALCULATED BY THE DESIGN ENGINEER.
 2. PROPER ORIFICE OPENING MUST BE SELECTED TO ENSURE POND DRAINS IN CORRECT AMOUNT OF TIME. MODIFICATIONS MAY BE REQUIRED IF FIELD CONDITIONS WARRANT A CHANGE.
 3. BARREL PIPE SHOULD BE 1.4 X DEPTH OF THE BASIN TO ENSURE PROPER FUNCTION.

DRAWN BY T. R. EVANS 08/24

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Calculations

DETENTION POND DESIGN CALCULATION

Site Location Existing Detention Pond Percent Imperviousness: 40% (I)
 Proposed Runoff "C" Value 0.48
 Maximum Allowable Outflow (CFS) 2.36 (G)
 Cont. Drainage Area (Acres) 15.70 (J) Storm Recurrence Interval (Yrs) 25

A	B	C	D	E	F	G	H
Duration (Minutes)	Duration (Hours)	25-Year Total Rainfall (Inches)	25-Year Rainfall Intensity (Inch/Hr)	Proposed Runoff Flow Rate (CFS)	Proposed Runoff Volume (CFT)	Maximum Allowable Outflow (CFS)	Required Detention Storage (CFT)
5	0.08	0.49	5.88	44.31	13,294	2.36	12,587
10	0.17	0.86	5.16	38.89	23,331	2.36	21,918
15	0.25	1.10	4.40	33.16	29,843	2.36	27,723
20	0.33	1.24	3.72	28.03	33,641	2.36	30,815
30	0.50	1.51	3.02	22.76	40,966	2.36	36,727
40	0.67	1.65	2.48	18.65	44,764	2.36	39,112
50	0.83	1.79	2.15	16.19	48,562	2.36	41,497
60	1.00	1.92	1.92	14.47	52,089	2.36	43,611
90	1.50	2.15	1.43	10.80	58,329	2.36	45,612
120	2.00	2.37	1.19	8.93	64,297	2.36	47,341
180	3.00	2.62	0.87	6.58	71,080	2.36	45,646
360	6.00	3.07	0.51	3.86	83,288	2.36	32,420
720	12.00	3.56	0.30	2.24	96,581	2.36	-5,155
1080	18.00	3.84	0.21	1.61	104,178	2.36	-48,426
1440	24.00	4.09	0.17	1.28	110,960	2.36	-92,512

Maximum: 47,341 2HR

RETENTION POND DESIGN CALCULATION


Retain the 100-Year 24 Hour Design Storm from the Entire Contributing Area (5.5 Inches of Rainfall)
150,456 CFT

- A) Duration of the storm event in minutes.
- B) Duration of the storm event in hours.
- C) Total amount of rainfall during a 25-year recurrence storm event for the given duration in Column A & B (ref.: midwestern climatological center rainfall Atlas-Bulletin 71).
- D) Average rainfall intensity during the 25-year recurrence storm event. Calculated by dividing Column C by Column B.
- E) The unrestricted 25-year recurrence discharge flow rate from the proposed site under fully developed conditions. Calculated by multiplying Intensity (D) and Drainage Area (L).
- F) The unrestricted storm event for the given duration in Column A and B. Calculated by multiplying the Proposed Runoff Flow Rate (E) by the Storm Duration (A) and by 60 seconds/minute.
- G) The maximum allowable discharge from the site is determined by multiplying the drainage area by 0.15 CFS per acre or if the proposed outlet is restrictive by determining the sites share of the existing outlets capacity on a contributing area basis.
- H) The required retention storage is determined by multiplying the differention flow rate (Inflow (E) - Outflow (G), by the corresponding duration (A) and by 60 seconds/minute. The amount of storage required for various storm durations will vary based on rainfall intensity, the size of the drainage area, and the allowable discharge. The maximum volume of storage for the various storm durations will be the required detention storage volume.
- I) Proposed percent imperviousness. This assumption will be used to determine the proposed runoff coefficient. Impervious surface will be assumed to have a value of 0.9 and pervious a value of 0.2
- J) Contributing Drainage to the proposed detention or retention system.

CONTRIBUTING ZONES
 A1 = 5.1 AC.
 A2 = 10.6 AC.

 TOTAL = 15.7 AC.

 DEFAULT MDEP
 3,600 ft³/AC.
 3,600 x 15.7 =
 56,520 ft³ REQ'D

Calculation By: 
 Date: 3/25/25

DETENTION POND DESIGN CALCULATION

Site Location Detention pond #2 Percent Imperviousness: 40% (I)
 Proposed Runoff "C" Value 0.48
 Maximum Allowable Outflow (CFS) 0.84 (G)
 Cont. Drainage Area (Acres) 5.60 (J) Storm Recurrence Interval (Yrs) 25

A	B	C	D	E	F	G	H
Duration (Minutes)	Duration (Hours)	25-Year Total Rainfall (Inches)	25-Year Rainfall Intensity (Inch/Hr)	Proposed Runoff Flow Rate (CFS)	Proposed Runoff Volume (CFT)	Maximum Allowable Outflow (CFS)	Required Detention Storage (CFT)
5	0.08	0.49	5.88	15.81	4,742	0.84	4,490
10	0.17	0.86	5.16	13.87	8,322	0.84	7,818
15	0.25	1.10	4.40	11.83	10,644	0.84	9,888
20	0.33	1.24	3.72	10.00	11,999	0.84	10,991
30	0.50	1.51	3.02	8.12	14,612	0.84	13,100
40	0.67	1.65	2.48	6.65	15,967	0.84	13,951
50	0.83	1.79	2.15	5.77	17,321	0.84	14,801
60	1.00	1.92	1.92	5.16	18,579	0.84	15,555
90	1.50	2.15	1.43	3.85	20,805	0.84	16,269
120	2.00	2.37	1.19	3.19	22,934	0.84	16,886
180	3.00	2.62	0.87	2.35	25,353	0.84	16,281
360	6.00	3.07	0.51	1.38	29,708	0.84	11,564
720	12.00	3.56	0.30	0.80	34,449	0.84	-1,839
1080	18.00	3.84	0.21	0.57	37,159	0.84	-17,273
1440	24.00	4.09	0.17	0.46	39,578	0.84	-32,998


Maximum: 16,886 2HR

RETENTION POND DESIGN CALCULATION

Retain the 100-Year 24 Hour Design Storm from the Entire Contributing Area (5.5 Inches of Rainfall)
53,666 CFT

- A) Duration of the storm event in minutes.
- B) Duration of the storm event in hours.
- C) Total amount of rainfall during a 25-year recurrence storm event for the given duration in Column A & B (ref.: midwestern climatological center rainfall Atlas-Bulletin 71).
- D) Average rainfall intensity during the 25-year recurrence storm event. Calculated by dividing Column C by Column B.
- E) The unrestricted 25-year recurrence discharge flow rate from the proposed site under fully developed conditions. Calculated by multiplying Intensity (D) and Drainage Area (L).
- F) The unrestricted storm event for the given duration in Column A and B. Calculated by multiplying the Proposed Runoff Flow Rate (E) by the Storm Duration (A) and by 60 seconds/minute.
- G) The maximum allowable discharge from the site is determined by multiplying the drainage area by 0.15 CFS per acre or if the proposed outlet is restrictive by determining the sites share of the existing outlets capacity on a contributing area basis.
- H) The required retention storage is determined by multiplying the differention flow rate (Inflow (E) - Outflow (G), by the corresponding duration (A) and by 60 seconds/minute. The amount of storage required for various storm durations will vary based on rainfall intensity, the size of the drainage area, and the allowable discharge. The maximum volume of storage for the various storm durations will be the required detention storage volume.
- I) Proposed percent imperviousness. This assumption will be used to determine the proposed runoff coefficient. Impervious surface will be assumed to have a value of 0.9 and pervious a value of 0.2
- J) Contributing Drainage to the proposed detention or retention system.

CONTRIBUTING AREA
 $A3 = 5.6 \text{ ac.}$
 MDEF DFFAULT
 $3,600 \text{ ft}^3/\text{ac} \times 5.6$
 $= 20,160 \text{ ft}^3 \text{ BOD}$

Calculation By: 
 Date: 3/25/25

DETENTION POND DESIGN CALCULATION

Site Location Detention pond #3

Percent Imperviousness: 40% (I)

Proposed Runoff "C" Value 0.48

Maximum Allowable Outflow (CFS) 0.59 (G)

Cont. Drainage Area (Acres) 3.90 (J)

Storm Recurrence Interval (Yrs) 25

A	B	C	D	E	F	G	H
Duration (Minutes)	Duration (Hours)	25-Year Total Rainfall (Inches)	25-Year Rainfall Intensity (Inch/Hr)	Proposed Runoff Flow Rate (CFS)	Proposed Runoff Volume (CFT)	Maximum Allowable Outflow (CFS)	Required Detention Storage (CFT)
5	0.08	0.49	5.88	11.01	3,302	0.59	3,127
10	0.17	0.86	5.16	9.66	5,796	0.59	5,445
15	0.25	1.10	4.40	8.24	7,413	0.59	6,887
20	0.33	1.24	3.72	6.96	8,357	0.59	7,655
30	0.50	1.51	3.02	5.65	10,176	0.59	9,123
40	0.67	1.65	2.48	4.63	11,120	0.59	9,716
50	0.83	1.79	2.15	4.02	12,063	0.59	10,308
60	1.00	1.92	1.92	3.59	12,939	0.59	10,833
90	1.50	2.15	1.43	2.68	14,489	0.59	11,330
120	2.00	2.37	1.19	2.22	15,972	0.59	11,760
180	3.00	2.62	0.87	1.63	17,657	0.59	11,339
360	6.00	3.07	0.51	0.96	20,689	0.59	8,053
720	12.00	3.56	0.30	0.56	23,992	0.59	-1,280
1080	18.00	3.84	0.21	0.40	25,879	0.59	-12,029
1440	24.00	4.09	0.17	0.32	27,563	0.59	-22,981

Maximum: 11,760 ZHR

RETENTION POND DESIGN CALCULATION

Retain the 100-Year 24 Hour Design Storm from the Entire Contributing Area (5.5 Inches of Rainfall)

37,374 CFT

- A) Duration of the storm event in minutes.
- B) Duration of the storm event in hours.
- C) Total amount of rainfall during a 25-year recurrence storm event for the given duration in Column A & B (ref.: midwestern climatological center rainfall Atlas-Bulletin 71).
- D) Average rainfall intensity during the 25-year recurrence storm event. Calculated by dividing Column C by Column B.
- E) The unrestricted 25-year recurrence discharge flow rate from the proposed site under fully developed conditions. Calculated by multiplying Intensity (D) and Drainage Area (L).
- F) The unrestricted storm event for the given duration in Column A and B. Calculated by multiplying the Proposed Runoff Flow Rate (E) by the Storm Duration (A) and by 60 seconds/minute.
- G) The maximum allowable discharge from the site is determined by multiplying the drainage area by 0.15 CFS per acre or if the proposed outlet is restrictive by determining the sites share of the existing outlets capacity on a contributing area basis.
- H) The required retention storage is determined by multiplying the differentiation flow rate (Inflow (E) - Outflow (G), by the corresponding duration (A) and by 60 seconds/minute. The amount of storage required for various storm durations will vary based on rainfall intensity, the size of the drainage area, and the allowable discharge. The maximum volume of storage for the various storm durations will be the required detention storage volume.
- I) Proposed percent imperviousness. This assumption will be used to determine the proposed runoff coefficient. Impervious surface will be assumed to have a value of 0.9 and pervious a value of 0.2
- J) Contributing Drainage to the proposed detention or retention system.

CONTRIBUTING AREA
 $A_4 = 3.9 \text{ AC.}$

MDEQ DEFAULT

$3,600 \text{ ft}^3/\text{AC} \times 3.9$

$= 14,040 \text{ ft}^3 \text{ REQ'D}$

Calculation By: 

Date: 3/25/25

DETENTION POND DESIGN CALCULATION

Site Location Detention pond #4 Percent Imperviousness: 40% (I)
 Proposed Runoff "C" Value 0.48
 Maximum Allowable Outflow (CFS) 1.79 (G)
 Cont. Drainage Area (Acres) 11.90 (J) Storm Recurrence Interval (Yrs) 25

A	B	C	D	E	F	G	H
Duration (Minutes)	Duration (Hours)	25-Year Total Rainfall (Inches)	25-Year Rainfall Intensity (Inch/Hr)	Proposed Runoff Flow Rate (CFS)	Proposed Runoff Volume (CFT)	Maximum Allowable Outflow (CFS)	Required Detention Storage (CFT)
5	0.08	0.49	5.88	33.59	10,076	1.79	9,540
10	0.17	0.86	5.16	29.47	17,684	1.79	16,613
15	0.25	1.10	4.40	25.13	22,620	1.79	21,013
20	0.33	1.24	3.72	21.25	25,498	1.79	23,356
30	0.50	1.51	3.02	17.25	31,050	1.79	27,837
40	0.67	1.65	2.48	14.14	33,929	1.79	29,645
50	0.83	1.79	2.15	12.27	36,808	1.79	31,453
60	1.00	1.92	1.92	10.97	39,481	1.79	33,055
90	1.50	2.15	1.43	8.19	44,211	1.79	34,572
120	2.00	2.37	1.19	6.77	48,735	1.79	35,883
180	3.00	2.62	0.87	4.99	53,876	1.79	34,598
360	6.00	3.07	0.51	2.92	63,129	1.79	24,573
720	12.00	3.56	0.30	1.69	73,205	1.79	-3,907
1080	18.00	3.84	0.21	1.22	78,963	1.79	-36,705
1440	24.00	4.09	0.17	0.97	84,103	1.79	-70,121

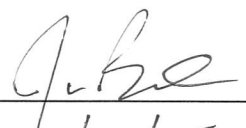
Maximum: 35,883 2HR

RETENTION POND DESIGN CALCULATION

Retain the 100-Year 24 Hour Design Storm from the Entire Contributing Area (5.5 Inches of Rainfall)
114,040 CFT

- A) Duration of the storm event in minutes.
- B) Duration of the storm event in hours.
- C) Total amount of rainfall during a 25-year recurrence storm event for the given duration in Column A & B (ref.: midwestern climatological center rainfall Atlas-Bulletin 71).
- D) Average rainfall intensity during the 25-year recurrence storm event. Calculated by dividing Column C by Column B.
- E) The unrestricted 25-year recurrence discharge flow rate from the proposed site under fully developed conditions. Calculated by multiplying Intensity (D) and Drainage Area (L).
- F) The unrestricted storm event for the given duration in Column A and B. Calculated by multiplying the Proposed Runoff Flow Rate (E) by the Storm Duration (A) and by 60 seconds/minute.
- G) The maximum allowable discharge from the site is determined by multiplying the drainage area by 0.15 CFS per acre or if the proposed outlet is restrictive by determining the sites share of the existing outlets capacity on a contributing area basis.
- H) The required retention storage is determined by multiplying the differention flow rate (Inflow (E) - Outflow (G), by the corresponding duration (A) and by 60 seconds/minute. The amount of storage required for various storm durations will vary based on rainfall intensity, the size of the drainage area, and the allowable discharge. The maximum volume of storage for the various storm durations will be the required detention storage volume.
- I) Proposed percent imperviousness. This assumption will be used to determine the proposed runoff coefficient. Impervious surface will be assumed to have a value of 0.9 and pervious a value of 0.2
- J) Contributing Drainage to the proposed detention or retention system.

CONTRIBUTING AREA =
 $AS = 11.9 \text{ ac}$
 MDEER DEFAULT
 $3,600 \text{ ft}^3/\text{ac} \times 11.9$
 $= 42,840 \text{ ft}^3 \text{ Req'd}$

Calculation By: 
 Date: 3/25/25

DETENTION POND DESIGN CALCULATION

Site Location Detention pond #5 Percent Imperviousness: 40% (I)
 Proposed Runoff "C" Value 0.48
 Maximum Allowable Outflow (CFS) 0.87 (G)
 Cont. Drainage Area (Acres) 5.80 (J) Storm Recurrence Interval (Yrs) 25

A	B	C	D	E	F	G	H
Duration (Minutes)	Duration (Hours)	25-Year Total Rainfall (Inches)	25-Year Rainfall Intensity (Inch/Hr)	Proposed Runoff Flow Rate (CFS)	Proposed Runoff Volume (CFT)	Maximum Allowable Outflow (CFS)	Required Detention Storage (CFT)
5	0.08	0.49	5.88	16.37	4,911	0.87	4,650
10	0.17	0.86	5.16	14.37	8,619	0.87	8,097
15	0.25	1.10	4.40	12.25	11,025	0.87	10,242
20	0.33	1.24	3.72	10.36	12,428	0.87	11,384
30	0.50	1.51	3.02	8.41	15,134	0.87	13,568
40	0.67	1.65	2.48	6.89	16,537	0.87	14,449
50	0.83	1.79	2.15	5.98	17,940	0.87	15,330
60	1.00	1.92	1.92	5.35	19,243	0.87	16,111
90	1.50	2.15	1.43	3.99	21,548	0.87	16,850
120	2.00	2.37	1.19	3.30	23,753	0.87	17,489
180	3.00	2.62	0.87	2.43	26,259	0.87	16,863
360	6.00	3.07	0.51	1.42	30,769	0.87	11,977
720	12.00	3.56	0.30	0.83	35,680	0.87	-1,904
1080	18.00	3.84	0.21	0.59	38,486	0.87	-17,890
1440	24.00	4.09	0.17	0.47	40,992	0.87	-34,176

Maximum: 17,489 2HR

RETENTION POND DESIGN CALCULATION

Retain the 100-Year 24 Hour Design Storm from the Entire Contributing Area (5.5 Inches of Rainfall)

55,583 CFT

- A) Duration of the storm event in minutes.
- B) Duration of the storm event in hours.
- C) Total amount of rainfall during a 25-year recurrence storm event for the given duration in Column A & B (ref.: midwestern climatological center rainfall Atlas-Bulletin 71).
- D) Average rainfall intensity during the 25-year recurrence storm event. Calculated by dividing Column C by Column B.
- E) The unrestricted 25-year recurrence discharge flow rate from the proposed site under fully developed conditions. Calculated by multiplying Intensity (D) and Drainage Area (L).
- F) The unrestricted storm event for the given duration in Column A and B. Calculated by multiplying the Proposed Runoff Flow Rate (E) by the Storm Duration (A) and by 60 seconds/minute.
- G) The maximum allowable discharge from the site is determined by multiplying the drainage area by 0.15 CFS per acre or if the proposed outlet is restrictive by determining the sites share of the existing outlets capacity on a contributing area basis.
- H) The required retention storage is determined by multiplying the differention flow rate (Inflow (E) - Outflow (G), by the corresponding duration (A) and by 60 seconds/minute. The amount of storage required for various storm durations will vary based on rainfall intensity, the size of the drainage area, and the allowable discharge. The maximum volume of storage for the various storm durations will be the required detention storage volume.
- I) Proposed percent imperviousness. This assumption will be used to determine the proposed runoff coefficient. Impervious surface will be assumed to have a value of 0.9 and pervious a value of 0.2
- J) Contributing Drainage to the proposed detention or retention system.

CONTRIBUTING AREA

$A_6 = 5.8 \text{ AC.}$

MDEG DEFAULT

$3,600 \text{ ft}^3/\text{AC} \times 5.8$
 $= 20,880 \text{ ft}^3 \text{ REQ'D}$

Calculation By: J. R. R.
 Date: 3/25/25

Support Documents

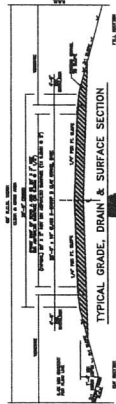
SWPPP LEGEND



Silt Fence

A3
Drainage Area
5.6

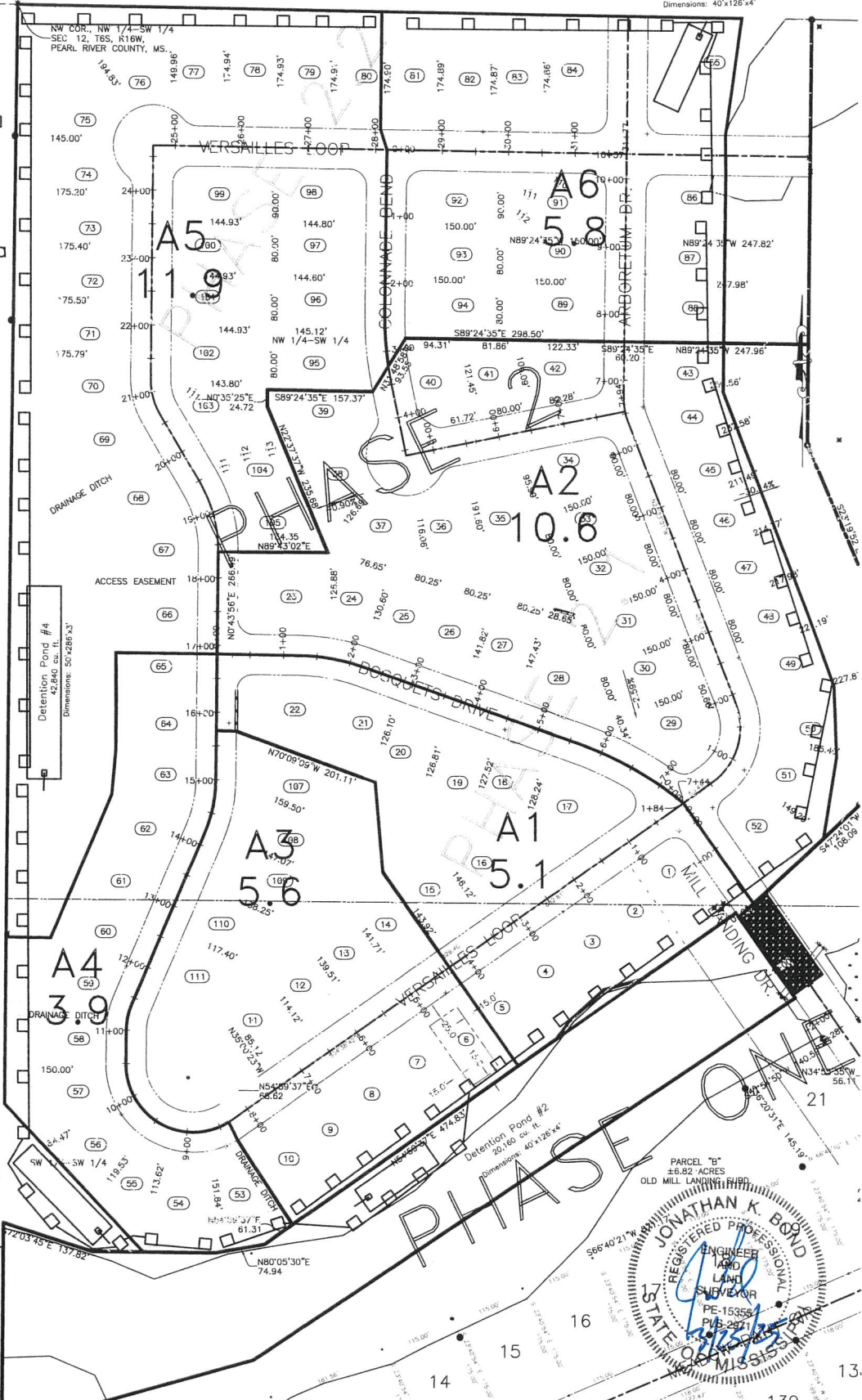
Construction
Entrance



Check dams, fiber rolls and straw barriers used for ditches.

Detention Pond #5
20,880 cu. ft.
Dimensions: 40'x126'x4'

NW COR., NW 1/4-SW 1/4
-SEC 12, T8S, R16W,
PEARL RIVER COUNTY, MS.



Detention Pond #3
14,400 cu. ft.
Dimensions: 42x170x2'

Detention Pond #2
20,160 cu. ft.
Dimensions: 40'x126'x4'



PHASE

PARCEL "B"
±6.82 ACRES
OLD MILL LANDING

JONATHAN K. BORD
REGISTERED PROFESSIONAL
ENGINEER AND
LAND SURVEYOR
STATE OF MISSISSIPPI
PE-15355
PLS-2871