



**ENVIRONMENT
& HEALTH**

Rec'd May 26, 2021
via email
AI 7187
MSR108439

Via Federal Express

Chief, Environmental Permits Division
MS Department of Environmental Quality, Office of Pollution Control
515 East Amite Street
Jackson, MS 39201

**RE: LARGE CONSTRUCTION NOTICE OF INTENT
THE FORMER ASPHALT REFINERY SITE
CRUPP, MISSISSIPPI**

To Whom it May Concern:

May 20, 2021

On behalf of our client, Comet Street, LLC, Ramboll US Consulting, Inc. (Ramboll) is pleased to submit the enclosed Notice of Intent form for Large Construction projects for coverage under the Large Construction General Permit for land disturbing activities of five (5) acres or greater for the Former Asphalt Refinery site located 5.5 miles south of Route 149 in Crupp, Mississippi. Also enclosed is proof of Comet Street, LLC's registration with the Mississippi Secretary of State, and the site-specific Erosion, Sedimentation and Pollution Control Plan.

Ramboll
1600 Parkwood Circle
Suite 310
Atlanta, GA 30339
USA

T +1 770 874 5010
F +1 770 874 5011

www.ramboll.com

If you have any questions, comments, and/or need further information, please contact us at your earliest convenience.

Yours sincerely,
Ramboll US Consulting, Inc.

Juliette Rose, P.E.

Managing Consultant
D +1 678-388-1676
M +1 678-953-1960

jjrose@ramboll.com

Keith Cole, P.E., CHMM

Principal
D +1 678-388-1648
M +1 404-354-2950

kcole@ramboll.com

Attachments

cc: Mr. Matt Holleman, III – Comet Street, LLC (electronic copy)
Mr. Jeff Cox – Birdsong Construction (electronic copy)

ATTACHMENT A
LARGE CONSTRUCTION NOTICE OF INTENT FORM

APPLICANT IS THE: ☒ OWNER ☐ PRIME CONTRACTOR

OWNER CONTACT INFORMATION

OWNER CONTACT PERSON: Mr. Matthew Holleman, III
 OWNER COMPANY LEGAL NAME: Comet Street, LLC
 OWNER STREET OR P.O. BOX: 5170 Galaxie Drive, Suite 1400
 OWNER CITY: Jackson STATE: MS ZIP: 39206
 OWNER PHONE #: (601) 940-2002 OWNER EMAIL: matt.h3@comcast.net

PRIME CONTRACTOR CONTACT INFORMATION

PRIME CONTRACTOR CONTACT PERSON: Mr. Jeff Cox
 PRIME CONTRACTOR COMPANY LEGAL NAME: Birdsong Construction
 PRIME CONTRACTOR STREET OR P.O. BOX: PO Box 2235
 PRIME CONTRACTOR CITY: Clinton STATE: MS ZIP: 39060
 PRIME CONTRACTOR PHONE #: (601) 924-4220 PRIME CONTRACTOR EMAIL: jeff@birdsongconst.com

FACILITY SITE INFORMATION

FACILITY SITE NAME: The Former Asphalt Refinery Site located in Crupp, Mississippi
 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: 5.5 Miles South of Route 149
 CITY: Yazoo STATE: MS COUNTY: Yazoo ZIP: 39194
 FACILITY SITE TRIBAL LAND ID (N/A If not applicable): N/A
 LATITUDE: 32 degrees 46 minutes 59.39 seconds LONGITUDE: 90 degrees 28 minutes 20.29 seconds
 LAT & LONG DATA SOURCE (GPS (Please GPS Project Entrance/Start Point) or Map Interpolation): Map Interpolation
 TOTAL ACREAGE THAT WILL BE DISTURBED ¹: 26
 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: 2021-06-21
 YYYY-MM-DD
 ESTIMATED CONSTRUCTION PROJECT END DATE: 2021-11-12
 YYYY-MM-DD
 DESCRIPTION OF CONSTRUCTION ACTIVITY: Groundwater remediation by in-situ soil reactive barriers
 PROPOSED DESCRIPTION OF PROPERTY USE AFTER CONSTRUCTION HAS BEEN COMPLETED:
vacant agricultural property
 SIC Code _____ NAICS Code _____

NEAREST NAMED RECEIVING STREAM: Yazoo River

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? YES ☐ NO ☒

ARE THERE RECREATIONAL STREAMS, PRIVATE/PUBLIC PONDS OR LAKES WITHIN ½ 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):
Sheet C2 Site Construction Plans

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

IF YES, INDICATE THE TYPE OF FLOCCULANT. ☐ ANIONIC POLYACRYLAMIDE (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? YES ☐ NO ☐

¹Acreage 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 A LAKE REQUIRING THE CONSTRUCTION OF A DAM BEING PROPOSED? YES ☐ NO ☒
(If yes, provide appropriate approval documentation from MDEQ Office of Land and Water, Dam Safety.)

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 WITH WHICH THE PROJECT MUST COMPLY:

N/A

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)

May 14, 2021

Date Signed

Matt Holleman

Printed Name¹

President

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

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: Jeff Cox PHONE NUMBER: (601) 924-4220
PRIME CONTRACTOR COMPANY: Birdsong Construction
PRIME CONTRACTOR STREET (P.O. BOX): PO Box 2235
PRIME CONTRACTOR CITY: Clinton STATE: MS ZIP: 39060
E-MAIL ADDRESS: jeff@birdsongconst.com

OWNER INFORMATION

OWNER CONTACT PERSON: Mr. Matthew Holleman, III PHONE NUMBER: (601) 940-2002
OWNER COMPANY NAME: Comet Street, LLC

PROJECT INFORMATION

PROJECT NAME: Crupp In-Situ Soil Mixing Remediation Project
DESCRIPTION OF CONSTRUCTION ACTIVITY: Groundwater remediation by in-situ soil reactive barriers

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: 5.5 Miles South of Route 149
CITY: Yazoo COUNTY: Yazoo

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 Signature

Jeff Cox

Printed Name¹

5-17-2021

Date Signed

President

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

**ATTACHMENT B
COMET STREET, LLC STATE REGISTRATION DOCUMENTATION**

F0100

2014163936

Fee: \$ 50



DELBERT HOSEMANN
Secretary of State

P.O. BOX 136
JACKSON, MS 39205-0136

Business ID: 1057660
Filed: 12/23/2014 02:22 PM
C. Delbert Hosemann, Jr.
Secretary of State

TELEPHONE: (601) 359-1633

Mississippi Limited Liability Company Certificate of Formation

Business Information

Business Type: Limited Liability Company

Business Name: Comet Street II, LLC

Business Email: matt.h3@comcast.net

Period of Duration: Perpetual

NAICS Code/Nature of Business

424710 - Petroleum Bulk Stations and Terminals

Registered Agent

Name: Matthew L Holleman III

Address: 5170 Galaxie Drive, PO Box 12485
Jackson, MS 39236-2485

Signature

The undersigned certifies that:

- 1) he/she has notified the above-named registered agent of this appointment;
- 2) he/she has provided the agent an address for the company, and;
- 3) the agent has agreed to serve as registered agent for this company

By entering my name in the space provided, I certify that I am authorized to file this document on behalf of this entity, have examined the document and, to the best of my knowledge and belief, it is true, correct and complete as of this day **12/22/2014**.

Name:
Steven M Hendrix
Organizer

Address:
200 South Lamar Street, Suite 100
Jackson, MS 39201

State of Mississippi

Certificate of Formation

Acting under the authority vested in me as Secretary of State by the Constitution and Laws of this State,
I do hereby certify the following has satisfied all conditions precedent for formation in this State.

Comet Street II, LLC



Given this the 23rd day of December, Two Thousand and Fourteen, in the Capital City of Jackson, Mississippi under my Hand and Seal,

C. Delbert Hosemann, Jr.

C. DELBERT HOSEMAN, JR.
Secretary of State

F0012

2015184631

Fee: \$ 50



DELBERT HOSEMANN
Secretary of State

P.O. BOX 136
JACKSON, MS 39205-0136

Business ID: 1057660
Filed: 01/28/2015 02:17 PM
C. Delbert Hosemann, Jr.
Secretary of State

TELEPHONE: (601) 359-1633

Articles/Certificate of Amendment

Business Details

Business ID: 1057660

Business Name: Comet Street II, LLC

Future Effective Date: 01/28/2015

Signature

By entering my name in the space provided, I certify that I am authorized to file this document on behalf of this entity, have examined the document and, to the best of my knowledge and belief, it is true, correct and complete as of this day ***01/28/2015***.

Name:

Steven M. Hendrix
Attorney In Fact

Address:

200 South Lamar Street, Suite 100
Jackson, MS 39110

**WRITTEN CONSENT OF THE SOLE MEMBER
OF
COMET STREET II, LLC**

January 28, 2015

The undersigned, being the sole member of Comet Street II, LLC, a Mississippi limited liability company (the "Company"), acting pursuant to the provisions of Section 79-29-223 of the Mississippi Revised Limited Liability Company Act, does hereby state that the resolutions hereafter set forth shall be deemed to have been adopted to the same extent and to have the same force and effect as if adopted at a formal meeting of the Members of the Company duly called and held for the purpose of acting upon proposals to adopt such resolutions to wit:

WHEREAS, the undersigned is the sole member of the Company; and

WHEREAS, the Company desires to change its name to Comet Street, LLC; and

WHEREAS, the undersigned believes it is in the best interests of the Company to amend its Certificate of Formation to change its name to Comet Street, LLC; and

NOW, THEREFORE, BE IT RESOLVED, that the undersigned hereby adopts and approves the name change to Comet Street, LLC, in all respects; and

RESOLVED, FURTHER, that in connection with the name change, any officer or manager of the Company be, and each hereby is, authorized, empowered and directed by and on behalf of the Company and in its name, to make, execute, and deliver the amendment to the Certificate of Formation changing the name of the Company to Comet Street, LLC and any other agreements on behalf of the Company such officer deem necessary and appropriate to accomplish the name change, the execution of any such further agreements, certificates, instruments or documents by such officer to be conclusive evidence of such approval; and


RESOLVED, FURTHER, that all acts, transactions, or agreements undertaken prior to the adoption of these Resolutions by any of the officers, managers or representatives of the Company in its name in connection with the foregoing matters are hereby ratified, confirmed and adopted; and

RESOLVED, FURTHER, that any officer or manager of the Company is hereby authorized to certify these Resolutions.

IN WITNESS WHEREOF, the undersigned Sole Member has executed this Written Consent as of the date first above written.

SOLE MEMBER:

GALAXIE CORPORATION, a Mississippi corporation

By: 
Matthew L. Holleman, III,
President and CEO

jackieblackwell@hotmail.com

From: Mississippi Secretary of State <donotreply@sos.ms.gov>
Sent: Friday, January 8, 2021 10:10 AM
To: jackieblackwell@hotmail.com
Subject: Filing Approved Notification

Business Id: 1057660

Tracking Number: 2021011281

Business Name: Comet Street, LLC

A filing for the above entity has been approved!

Click the link below to view the Filing
[Comet Street, LLC](#)

You are receiving this email because this email address is listed as the Business Email for the above entity. To change who receives notification emails for this entity, please visit the Mississippi Secretary of State's website, file an amendment form for the entity and change the business email.

Looking for targeted Mississippi consumer, economic, and population data to help grow or start your business? Visit [Y'all Business](#), the first step toward your successful Mississippi business.

ATTACHMENT C
EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN

PROJECT NAME: CRUPP IN-SITU SOIL MIXING REMEDIATION
PROJECT LOCATION: 5.5 MILES SOUTH OF ROUTE 149 in YAZOO CITY, MISSISSIPPI
DISTURBED AREA: 26 ACRES
EXISTING LAND USE: VACANT FORMER AGRICULTURAL PROPERTY
SURROUNDING LAND USE: SURROUNDING LAND USE IS AGRICULTURAL
RUNOFF COEFFICIENT (C): 0.30
RECEIVING WATERS: YAZOO RIVER
OWNER/DEVELOPER NAME: COMET STREET, INC.
ADDRESS: 18473 HIGHWAY 3 SOUTH
CITY, STATE: YAZOO CITY, MS 39194
PHONE NUMBER: (601) 940-2002

GENERAL NOTES

- ALL CONSTRUCTION MUST CONFORM TO ALL APPLICABLE CITY/COUNTY/STATE/FEDERAL STANDARDS, CODES, AND SPECIFICATIONS.
- THE CONTRACTOR IS RESPONSIBLE FOR ALL SITE SAFETY, MEANS AND METHODS OF COMPLETING THE WORK INCLUDING ALL REQUIRED EQUIPMENT, TESTING AND MATERIALS. THE CONSTRUCTION SHALL BE IN CONFORMANCE WITH THE PLANS AND SPECIFICATIONS.
- THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL PERMITS NECESSARY FOR CONSTRUCTION. THE CONTRACTOR IS ALSO RESPONSIBLE FOR CONFIRMING THAT ALL APPROVALS HAVE BEEN OBTAINED PRIOR TO BEGINNING CONSTRUCTION.
- EQUIPMENT AND MATERIALS SHALL BE STORED IN AREAS DESIGNATED ON THE SITE PLANS. CONSTRUCTION AND STORAGE AREAS SHALL BE KEPT NEAT AND CLEAN.
- THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF ANY DISCREPANCIES BETWEEN PLAN AND FIELD CONDITIONS PROMPTLY UPON DISCOVERY.
- THE CONTRACTOR SHALL NOTIFY THE CIVIL ENGINEER OF ANY DISCREPANCY BETWEEN THE CIVIL CONSTRUCTION DOCUMENTS AND/OR SPECIFICATIONS AND THE DOCUMENTS OF ANY OTHER DISCIPLINE IMMEDIATELY UPON DISCOVERY.
- THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING DIMENSIONS SHOWN HEREON WITH THE STRUCTURAL DRAWINGS PRIOR TO ANY CONSTRUCTION AND SHALL PROMPTLY NOTIFY THE ENGINEER OF ANY DISCREPANCY.
- FINAL LANDSCAPING (RESTORATION PLAN)TO BE COMPLETED AT THE DIRECTION OF THE OWNER.
- ALL SURVEY REFERENCES ARE BASED ON INFORMATION PROVIDED BY OTHERS. THIS DESIGN DOES NOT INCLUDE ANY CERTIFICATION AS TO THE ACCURACY OF PROPERTY LINES, EASEMENTS, UTILITY LOCATIONS OR RIGHT OF WAYS. RAMBOLL DOES NOT WARRANT THE ACCURACY OF BOUNDARY AND TOPOGRAPHIC INFORMATION. CONTRACTOR TO VERIFY EXISTING GRADES DURING CONSTRUCTION LAYOUT AND ADVISE ENGINEER OF ANY DISCREPANCIES.
- THE CONTRACTOR SHALL WARRANT BY EXECUTION OF CONSTRUCTION CONTRACT THAT HIS EMPLOYEES, AGENTS AND SUBCONTRACTORS POSSESS THE EXPERIENCE, KNOWLEDGE, AND CHARACTER NECESSARY TO QUALIFY THEM TO PERFORM THE CONTRACTED WORK. THE CONTRACTOR SHALL INSURE THAT ALL CONSTRUCTION BE PERFORMED IN STRICT COMPLIANCE WITH ALL OSHA, (OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION), STATE, AND LOCAL HEALTH AND SAFETY CODES.
- NECESSARY BARRICADES, SUFFICIENT LIGHTS, SIGNS AND OTHER TRAFFIC CONTROL METHODS AS MAY BE NECESSARY FOR THE PROTECTION AND SAFETY OF THE PUBLIC SHALL BE PROVIDED AND MAINTAINED THROUGHOUT CONSTRUCTION. ALL MAINTENANCE OF TRAFFIC DURING CONSTRUCTION AND ALL CONSTRUCTION WITHIN THE RIGHT-OF-WAY WILL BE THE CONTRACTORS RESPONSIBILITY TO ADHERE TO MISSISSIPPI DOT STANDARDS THROUGHOUT THE DURATION OF THIS PROJECT.
- ANY DISCREPANCY BETWEEN THIS SHEET AND OTHERS IN THIS SET SHALL BE REFERRED TO THE ENGINEER FOR CLARIFICATION BEFORE PROCEEDING WITH THE WORK.
- CONTRACTOR SHALL NOT PROCEED WITH CONSTRUCTION WHEN IT IS OBVIOUS THAT UNKNOWN OBSTRUCTIONS AND/OR DIFFERENCES EXIST THAT MAY NOT HAVE BEEN KNOWN DURING DESIGN. CONTRACTOR SHALL BRING ANY DISCREPANCIES IN PLANS, SITE CONDITIONS, ETC. TO THE OWNERS ATTENTION BEFORE ANY ADDITIONAL WORK IS PERFORMED. THE CONTRACTOR SHALL ASSUME FULL RESPONSIBILITY FOR ALL NECESSARY REVISIONS DUE TO FAILURE TO GIVE SUCH NOTIFICATION.
- DEVIATIONS FROM THESE PLANS AND SPECIFICATIONS WITHOUT THE PRIOR CONSENT OF THE ENGINEER MAY CAUSE FOR THE WORK TO BE UNACCEPTABLE TO THE ENGINEER.
- ALL STORMWATER STRUCTURES ARE PRIVATE AND WILL NOT BE DEDICATED TO YAZOO CITY.
- CONTRACTOR WILL PROVIDE A JOB SITE TRAILER FOR USE BY SITE CONTRACTOR AND RAMBOLL, THE GACILITY WILL BE POWERED, CLIMATE CONTROLLED, AND HAVE BATHROOM FACILITIES.

REFERENCES

- BOUNDARY AND TOPOGRAPHIC INFORMATION IS BASED ON A SURVEY PREPARED BY JOE A. SUTHERLAND, JR, P.E.-P.S. DATED MARCH 22, 2021, ENTITLED TOPOGRAPHIC SURVEY.
- THE PROPERTY DOES NOT LIE WITHIN A FLOOD HAZARD ZONE AS IDENTIFIED ON A F.I.R.M. COMMUNITY PANEL NO. 28163C0325C FOR YAZOO COUNTY, MS, DATED FEBRUARY 16, 2012 AS PUBLISHED BY THE FEDERAL EMERGENCY MANAGEMENT AGENCY (FEMA).

YAZOO CITY NOTES

- EROSION AND SEDIMENTATION AND CONTROL (ES&C) MEASURES WILL BE MAINTAINED AT ALL TIMES. IF FULL IMPLEMENTATION OF THE APPROVED PLAN DOES NOT PROVIDE FOR EFFECTIVE EROSION CONTROL, ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE IMPLEMENTED TO CONTROL OR TREAT THE SEDIMENT SOURCE.
- AMENDMENTS TO THE ES&PC PLAN WHICH HAVE A SIGNIFICANT EFFECT ON BEST MANAGEMENT PRACTICES (BMPS) WITH A HYDRAULIC COMPONENT MUST BE CERTIFIED BY THE DESIGN PROFESSIONAL.
- MAINTENANCE OF ALL EROSION CONTROL MEASURES, WHETHER TEMPORARY OR PERMANENT, SHALL AT ALL TIMES BE THE RESPONSIBILITY OF THE CONTRACTOR.
- ANY DISTURBED AREA LEFT EXPOSED FOR A PERIOD GREATER THAN 14 DAYS SHALL BE STABILIZED WITH MULCH OR TEMPORARY SEEDING.
- ALL FILL SLOPES WILL HAVE SILT FENCE AT THE TOE OF SLOPE.
- THE SITE IS NOT WITHIN 200 FT OF STATE WATERS.
- A 50 FT UNDISTURBED VEGETATIVE BUFFER AND A 75 FT IMPERVIOUS BUFFER ADJACENT TO ALL RUNNING STREAMS AND CREEKS WILL BE LEFT MAINTAINED. NO NON-EXEMPT ACTIVITIES SHALL TAKE PLACE IN THE BUFFER AREAS WITHOUT FIRST ACQUIRING THE NECESSARY VARIANCES AND PERMITS. THE SITE DOES NOT CONTAIN WETLANDS.
- ALL CUT AND FILL SLOPES SHALL BE SURFACE ROUGHENED AND VEGETATED WITHIN 3 DAYS AFTER FINAL RESTORATION IS COMPLETED.
- WASTE MATERIALS SHALL NOT BE DISCHARGED TO WATERS OF THE STATE, EXCEPT AS AUTHORIZED BY A SECTION 404 PERMIT.
- STUMPS AND CONSTRUCTION DEBRIS SHALL BE DEPOSITED IN A PROPERLY PERMITTED LANDFILL.
- A DOUBLE ROW OF TYPE "C" SILT FENCE SHALL BE REQUIRED WHEN PLACED WITHIN 200 FT OF STATE WATERS AND AT THE TOE OF SLOPES GREATER THAN 10 FT IN HEIGHT.
- ALL DETENTION FACILITIES WHETHER A POND OR UNDERGROUND WILL BE PRIVATELY OWNED AND MAINTAINED.
- THE CLEARING LIMITS WILL BE CLEARLY LOCATED IN THE FIELD. NO CONSTRUCTION ACTIVITY WILL TAKE PLACE OUTSIDE THE CLEARING LIMITS.
- THE SITE DOES NOT CONTAIN ANY KNOWN CEMETERIES.

SITE PREPARATION NOTES

- CONTRACTOR SHALL CLEARLY MARK AND MAINTAIN PROPERTY BOUNDARY MONUMENTS AND BENCHMARKS AND BE RESPONSIBLE FOR THE COST OF REPLACING THEM IF DISTURBED OR DAMAGED IN ANY WAY.
- THE CONTRACTOR SHALL OBTAIN WRITTEN VERIFICATION FROM ALL UTILITY COMPANIES THAT ALL APPLICABLE UTILITIES HAVE BEEN REMOVED OR PROPERLY DEMARCATED PRIOR TO CLEARING AND DEMOLITION.
- THE CONTRACTOR SHALL PROTECT ANY UTILITY, STRUCTURE OR OTHER IMPROVEMENT THAT IS TO REMAIN AND IS RESPONSIBLE FOR ANY REPAIR COSTS FOR DAMAGE TO THEM.
- UTILITIES MAY EXIST WHICH ARE NOT SHOWN ON THE PLANS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING ALL UTILITY COMPANIES WITH UTILITIES WITHIN OR ADJACENT TO THE WORK AREA, AS WELL AS COORDINATING WITH THE OWNER REGARDING THE POSSIBILITY OF UNMARKED BURIED UTILITIES ON THE SITE. ANY UNFORSEEN ENCOUNTERS WITH UNDERGROUND UTILITIES MUST IMMEDIATELY BE REPORTED TO THE ENGINEER AND THE OWNER, FOR ALL PHASES OF CONSTRUCTION.
- ALL DEBRIS THAT IS HAULED OFFSITE SHALL BE DISPOSED OF AT A DISPOSAL AREA APPROVED BY THE JURISDICTION HAVING AUTHORITY FOR THE HANDLING OF DEMOLITION DEBRIS.
- THE CONTRACTOR SHALL MAINTAIN THE SITE IN NEAT AND CLEAN CONDITION. ANY CONSTRUCTION DEBRIS OR VEGETATION SHALL BE DISPOSED OF OFFSITE.
- CONTRACTOR SHALL HAVE THE LIMITS OF CLEARING AND ALL BUFFERS STAKED WITH FLAGGING TO INSURE THE PROPER LOCATION OF TREE SAVE FENCE AND PROPOSED IMPROVEMENTS.
- CONTRACTOR SHALL PROTECT ALL AREAS ADJACENT TO THE LIMITS OF CLEARING AND DEMOLITION FROM DAMAGE DURING DEMOLITION. ANY OFFSITE AREAS DISTURBED SHALL BE RETURNED TO A CONDITION EQUAL OR BETTER TO THE EXISTING CONDITION. NO TRESPASSING IS ALLOWED ON ADJACENT PROPERTY UNLESS WRITTEN AUTHORIZATION IS OBTAINED FROM THE ADJACENT PROPERTY OWNER.
- CONTRACTOR SHALL FIELD-VERIFY EXACT HORIZONTAL AND VERTICAL LOCATION OF ALL EXISTING UTILITIES PRIOR TO BEGINNING WORK.

EROSION CONTROL NOTES

- PRIOR TO LAND DISTURBING ACTIVITY THE CONTRACTOR SHALL SCHEDULE A PRECONSTRUCTION MEETING WITH THE AREA SITE DEVELOPMENT INSPECTOR.
- A COPY OF THE APPROVED LAND DISTURBANCE PLAN AND PERMIT SHALL BE PRESENT ON THE SITE AT ALL TIMES.
- PRIOR TO ANY OTHER CONSTRUCTION, A STABILIZED CONSTRUCTION ENTRANCE SHALL BE CONSTRUCTED AT EACH POINT OF ENTRY TO OR EXIT FROM THE SITE OR ONTO ANY PUBLIC ROADWAY.
- THE FOLLOWING INITIAL EROSION CONTROL MEASURES SHALL BE IMPLEMENTED PRIOR TO ANY OTHER CONSTRUCTION ACTIVITY:
 - THE CONSTRUCTION EXIT SHALL BE PLACED AS SHOWN ON THE PLANS.
 - IMMEDIATELY AFTER THE ESTABLISHMENT OF THE CONSTRUCTION EXIT, ALL PERIMETER EROSION CONTROL AND STORMWATER MANAGEMENT DEVICES SHALL BE INSTALLED AS SHOWN ON THE EROSION CONTROL PLAN
 - WITHIN SEVEN (7) DAYS AFTER INSTALLATION OF INITIAL EROSION CONTROL MEASURES, THE SITE CONTRACTOR SHALL SCHEDULE AN INSPECTION BY THE PROJECT DESIGN PROFESSIONAL. NO OTHER CONSTRUCTION ACTIVITIES SHALL OCCUR UNTIL THE PROJECT PROFESSIONAL APPROVES THE INSTALLATION OF SAID EROSION CONTROL MEASURES. IF UNFORESEEN CONDITIONS EXIST IN THE FIELD THAT WARRANT ADDITIONAL EROSION CONTROL MEASURES, THE CONTRACTOR MUST CONSTRUCT ANY ADDITIONAL EROSION CONTROL DEVICES DEEMED NECESSARY BY THE PROJECT PROFESSIONAL DURING THE SITE INSPECTION.
- NO BURN PITS SHALL BE PERMITTED ON THE CONSTRUCTION SITE WITHOUT WRITTEN PERMISSION BY THE OWNER AND THE ENGINEER OF RECORD.
- ALL SILT FENCES MUST MEET THE REQUIREMENTS OF TABLE SB-1 OF THE SEDIMENT BARRIER SECTION OF THE MISSISSIPPI DEPARTMENT OF ENVIRONMENTAL PROTECTION STORWATER POLLUTION PREVENTION PLAN GUIDANCE MANUAL FOR CONSTRUCTION ACTIVITIES.
- SEDIMENT AND EROSION CONTROL MEASURES MUST BE CHECKED AFTER EACH RAIN EVENT. EACH DEVICE IS TO BE MAINTAINED OR REPLACED IF SEDIMENT ACCUMULATION HAS REACHED HALF THE CAPACITY OF THE DEVICE. ADDITIONAL DEVICES MUST BE INSTALLED IF NEW CHANNELS HAVE DEVELOPED.
- THE CONSTRUCTION EXIT SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACK OR FLOW OF MUD ONTO PUBLIC RIGHT-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH 1"-3" OF STONE. AS CONDITIONS DEMAND. ALL MATERIALS SPILLED, DROPPED, WASHED OR TRACKED FROM A VEHICLE ONTO PUBLIC ROADWAY OR INTO STORM DRAIN MUST BE REMOVED IMMEDIATELY.
- CONTRACTOR SHALL INSPECT EROSION CONTROL MEASURES AT THE END OF EACH WORKING DAY TO ENSURE PROPER FUNCTIONING.
- FAILURE TO INSTALL, OPERATE OR MAINTAIN ALL EROSION CONTROL MEASURES WILL RESULT IN ALL CONSTRUCTION BEING STOPPED ON THE SITE UNTIL SUCH MEASURES ARE CORRECTED BACK TO THE APPROVED PLANS.
- EROSION CONTROL DEVICES SHALL BE INSTALLED IMMEDIATELY AFTER GROUND DISTURBANCE OCCURS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ACCOMPLISH EROSION CONTROL FOR ALL DRAINAGE PATTERNS CREATED AT VARIOUS STAGES DURING CONSTRUCTION, AND ALTER THE LOCATION OF EROSION CONTROL DEVICES ACCORDINGLY. ANY DIFFICULTY IN CONTROLLING EROSION DURING ANY PHASE OF CONSTRUCTION SHALL BE REPORTED TO THE DESIGN PROFESSIONAL IMMEDIATELY.
- ALL DRAINAGE SWALES AND GRADED AREAS SHALL BE APPLIED WITH VEGETATIVE COVER AS SOON AS FINAL GRADE IS ACHIEVED. MULCH OR TEMPORARY GRASSING SHALL BE APPLIED TO ALL EXPOSED AREAS WITHIN 7 DAYS OF LAND DISTURBANCE. ALL DISTURBED AREAS LEFT MULCHED FOR MORE THAN 30 DAYS SHALL BE STABILIZED WITH TEMPORARY GRASSING.
- NO SEDIMENT POND IS PROVIDED WITH THIS PROJECT.



Know what's below.
Call before you dig.

THE ESCAPE OF SEDIMENT FROM THE SITE SHALL BE PREVENTED BY THE INSTALLATION OF EROSION AND SEDIMENT CONTROL MEASURES AND PRACTICES PRIOR TO, OR CONCURRENT WITH, LAND DISTURBING ACTIVITIES.

TRENCHING NOTES

THIS CONSTRUCTION INVOLVES THE INSTALLATION OF THREE TRENCH SYSTEMS USING A ONE-PASS TRENCHING MACHINE. EACH SYSTEM WILL BE COMPRISED OF A FUNNEL TRENCH THAT WILL BE CONSTRUCTED BY BLENDING THE CLAYEY SOILS WITH GRANULAR BENTONITE TO CREATE A UNIFORM, LOW PERMEABILITY SOIL PROFILE. GATE TRENCHES WILL BE INSTALLED USING A MIXTURE OF BIOAVAILABLE ABSORBENT MEDIA (BAM), SAND, AND PEA STONE. TRIBUTARY TRENCHES WILL BE INSTALLED USING OF A MIX OF SAND AND PEA ROCK.

- PRIOR TO COMMENCING SITE WORK, EACH TRENCH SEGMENT WILL BE SURVEYED AND STAKED BY A PROFESSIONAL LAND SURVEYOR. THE TRENCHES SHALL BE CLEARLY MARKED TO ALLOW THE ONE-PASS TRENCHING MACHINE TO INSTALL THE TRENCHES IN THE EXACT LOCATIONS DESIGNATED ON THE DESIGN PLAN.
- CONTRACTOR SHALL BE RESPONSIBLE FOR PRESERVING ALL STAKES AND CONTROLS SET BY THE SURVEYOR AND SHALL TAKE THE NECESSARY STEPS TO ENSURE THAT THE STAKES AND CONTROLS ARE NOT DISTURBED OR TAMPERED WITH. IF SURVEYOR STAKES ARE DISTURBED, CONTRACTOR SHALL BE RESPONSIBLE FOR THE COST INCURRED TO RE-STAKE.
- CONTRACTOR SHALL BE RESPONSIBLE FOR PRESERVING ALL STAKES AND CONTROLS SET BY THE SURVEYOR AND SHALL TAKE THE NECESSARY STEPS TO ENSURE THAT THE STAKES AND CONTROLS ARE NOT DISTURBED OR TAMPERED WITH. IF SURVEYOR STAKES ARE DISTURBED, CONTRACTOR SHALL BE RESPONSIBLE FOR THE COST INCURRED TO RE-STAKE.
- TRENCH STABILITY PLATFORMS (30 FEET WIDE) WILL BE CONSTRUCTED ON THE SITE ACROSS EACH TRENCH SEGMENT USING LIME STABILIZATION. THE PLATFORMS WILL BE CONSTRUCTED BY TILLING AN APPROXIMATE 6% CAC03 LIMESTONE AGGREGATE INTO THE TOP 8-INCHES OF SURFACE SOIL..
- RAW MATERIALS SUCH AS TRENCH SAND, PEA STONE, GRADED AGGREGATE BASE (GAB), GRANULAR BENTONITE AND BAM WILL BE STOCKPILED ON THE MATERIALS STOCKPILE AREA.
- EQUIPMENT, TRUCKS AND MACHINERY WILL BE ASSEMBLED AND STORED IN THE LAY DOWN YARD AREA.
- CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING THE CONDITION OF THE MATERIALS STOCKPILE AREA AND LAY DOWN YARD AREA.
- ACCESS ROADWAYS, 20 FEET WIDE WILL BE CONSTRUCTED BY TILLING LIMESTONE INTO THE TOP 8-INCHES OF SURFACE SOIL. A 2-INCH LAYER OF GAB WILL COVER EACH ROADWAY. CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTENANCE OF THE ROADWAYS AND GAB REPLENISHMENT AS NECESSARY.
- NATIVE SOILS THAT ARE DISPLACED (I.E. SPOILS) DURING TRENCHING ACTIVITIES WILL BE STAGED AT A MANAGEMENT AREA TOWARDS THE SOUTH OF THE SITE IN A MANNER THAT PREVENTS LIQUID INFILTRATION, RUNOFF, AND GENERATION OF FUGITIVE DUST.
- SPOILS GENERATED BY ONE-PASS TRENCHING WILL BE TRANSPORTED TO THE SOIL STOCKPILE AREA USING A FRONT-END LOADER. THE SPOILS WILL BE PLACED ON 40-MIL HIGH DENSITY POLYETHYLENE (HDPE) SHEETING IN SEPARATE PILES OF APPROXIMATELY 60 CY. CONTAMINATED SOIL PILES WILL BE COVERED AT THE END OF EACH DAY.
- CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING THE SOIL STOCKPILE AREA AND COVERING THE STOCKPILES WITH 40-MIL HDPE SHEETING AT THE END OF EACH WORKDAY OR DURING PERIODS OF INACTIVITY.
- STOCKPILED SOILS THAT ARE DETERMINED TO MEET THE CRITERIA TO BE SPREAD ON SITE WILL BE TILLED INTO SITE SOIL AND GRADED AT THE END OF THE PROJECT IN ACCORDANCE WITH THE SMP AND THE SITE RESTORATION PLAN.
- FOLLOWING INSTALLATION, THE TRENCHES WILL BE SURVEYED BY A PROFESSIONAL LAND SURVEYOR.

SEQUENCE OF PROJECT

- INSTALL EROSION CONTROL MEASURES
- INITIAL GRADING
- CONSTRUCT MATERIALS STOCKPILE/LAYDOWN YARD AND SOIL STOCKPILE AREAS
- CONSTRUCT SITE ACCESS ROADWAYS
- CONSTRUCT TRENCH STABILITY PLATFORMS
- INSTALL TRIBUTARY TRENCHES
- INSTALL SOUTH GATE TRENCH
- INSTALL CENTRAL GATE TRENCH
- INSTALL NORTH GATE TRENCH
- INSTALL FUNNEL TRENCHES
- THERMALLY TREAT TRENCH SOIL SPOILS
- SPREAD/TILL TREATED SOIL ACROSS SITE AND RE-GRADE
- RESTORE SITE
- REMOVE EROSION CONTROL MEASURES

CONSTRUCTION SCHEDULE	2021						
	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER
MOBILIZATION							
INSTALLATION OF EROSION CONTROL MEASURES							
INITIAL GRADING							
MATERIALS STOCKPILE/LAYDOWN YARD CONSTRUCTION							
ACCESS ROADWAY CONSTRUCTION							
SOIL STOCKPILE AREA CONSTRUCTION							
TRENCH STABILITY PLATFORM CONSTRUCTION							
TRIBUTARY TRENCH INSTALLATION							
SOUTH SYSTEM GATE INSTALLATION							
CENTRAL SYSTEM GATE INSTALLATION							
NORTH SYSTEM GATE INSTALLATION							
FUNNEL TRENCH INSTALLATION							
SOIL THERMAL TREATMENT							
SOIL SPREADING/TILLING AND SITE RE-GRADING							
MAINTENANCE OF EROSION CONTROL MEASURES							
SITE RESTORATION - SEEDING							
FINAL STABILIZATION REMOVE EROSION CONTROL MEASURES							

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REVISIONS			
NO.	DESCRIPTION	BY	DATE

DRAWING INFO.	
PROJECT #:	1690021854 (201)
DESIGNED:	KAC/JJ
APPROVED:	KAC
DRAFTER:	CKL
DATE:	5/21/2021

PROFESSIONAL ENGINEER CERTIFICATION
KEITH ALAN COLE MISSISSIPPI PROFESSIONAL ENGINEER #16986

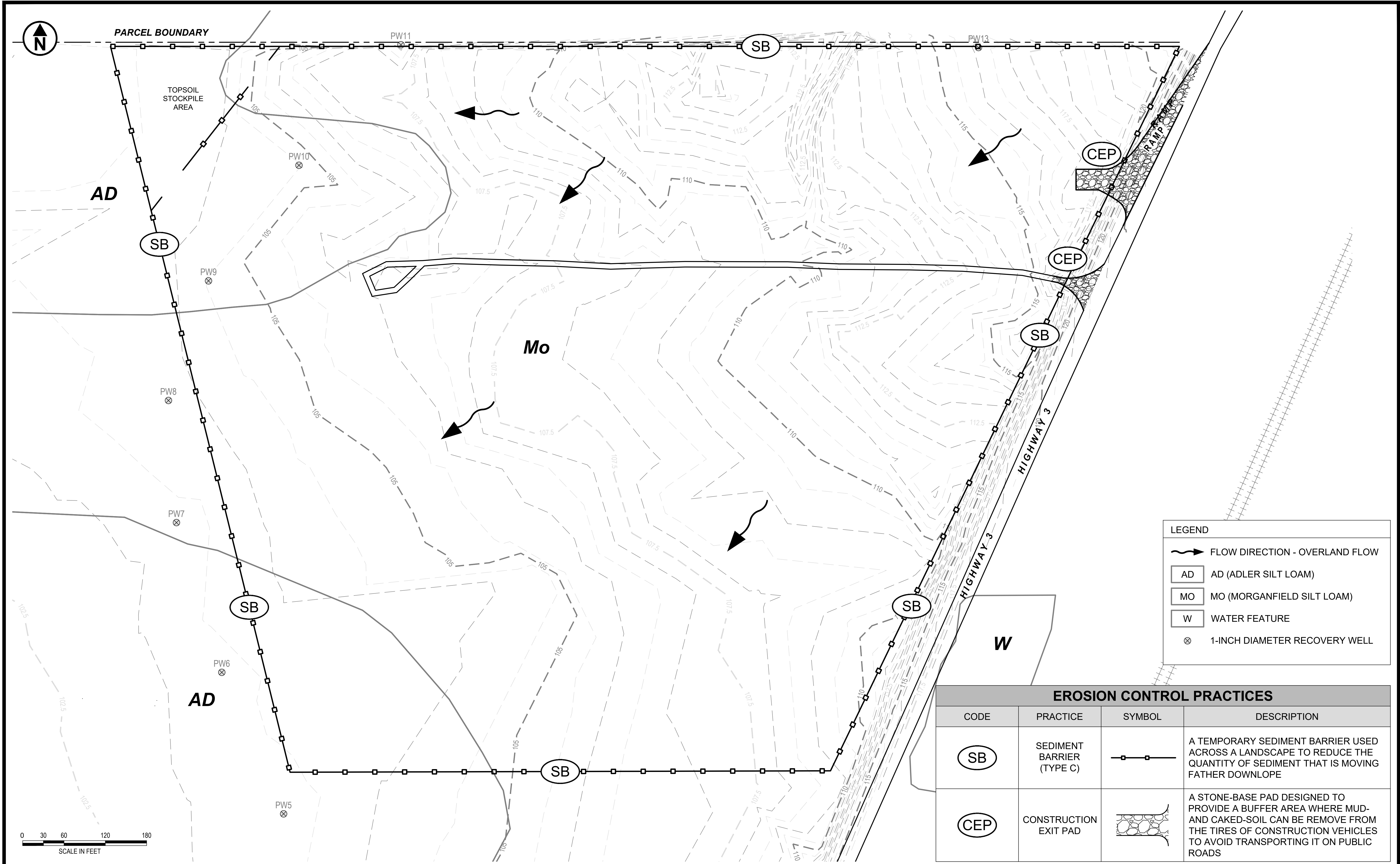
CRUPP IN-SITU SOIL MIXING REMEDIATION PROJECT
GENERAL NOTES

CRUPP, MISSISSIPPI

SHEET

C1

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LEGEND

FLOW DIRECTION - OVERLAND FLOW

AD

AD (ADLER SILT LOAM)

MO

MO (MORGANFIELD SILT LOAM)

W

WATER FEATURE

1-INCH DIAMETER RECOVERY WELL

EROSION CONTROL PRACTICES			
CODE	PRACTICE	SYMBOL	DESCRIPTION
SB	SEDIMENT BARRIER (TYPE C)		A TEMPORARY SEDIMENT BARRIER USED ACROSS A LANDSCAPE TO REDUCE THE QUANTITY OF SEDIMENT THAT IS MOVING FATHER DOWNLOPE
CEP	CONSTRUCTION EXIT PAD		A STONE-BASE PAD DESIGNED TO PROVIDE A BUFFER AREA WHERE MUD- AND CAKED-SOIL CAN BE REMOVE FROM THE TIRES OF CONSTRUCTION VEHICLES TO AVOID TRANSPORTING IT ON PUBLIC ROADS



REVISIONS			
NO.	DESCRIPTION	BY	DATE

DRAWING INFO.	
PROJECT #:	1690021854 (201)
DESIGNED:	KAC/JJ
APPROVED:	KAC
DRAFTER:	CKL
DATE:	5/21/2021

PROFESSIONAL ENGINEER CERTIFICATION	
KEITH ALAN COLE	MISSISSIPPI PROFESSIONAL ENGINEER #16986

CRUPP IN-SITU SOIL MIXING REMEDIATION PROJECT

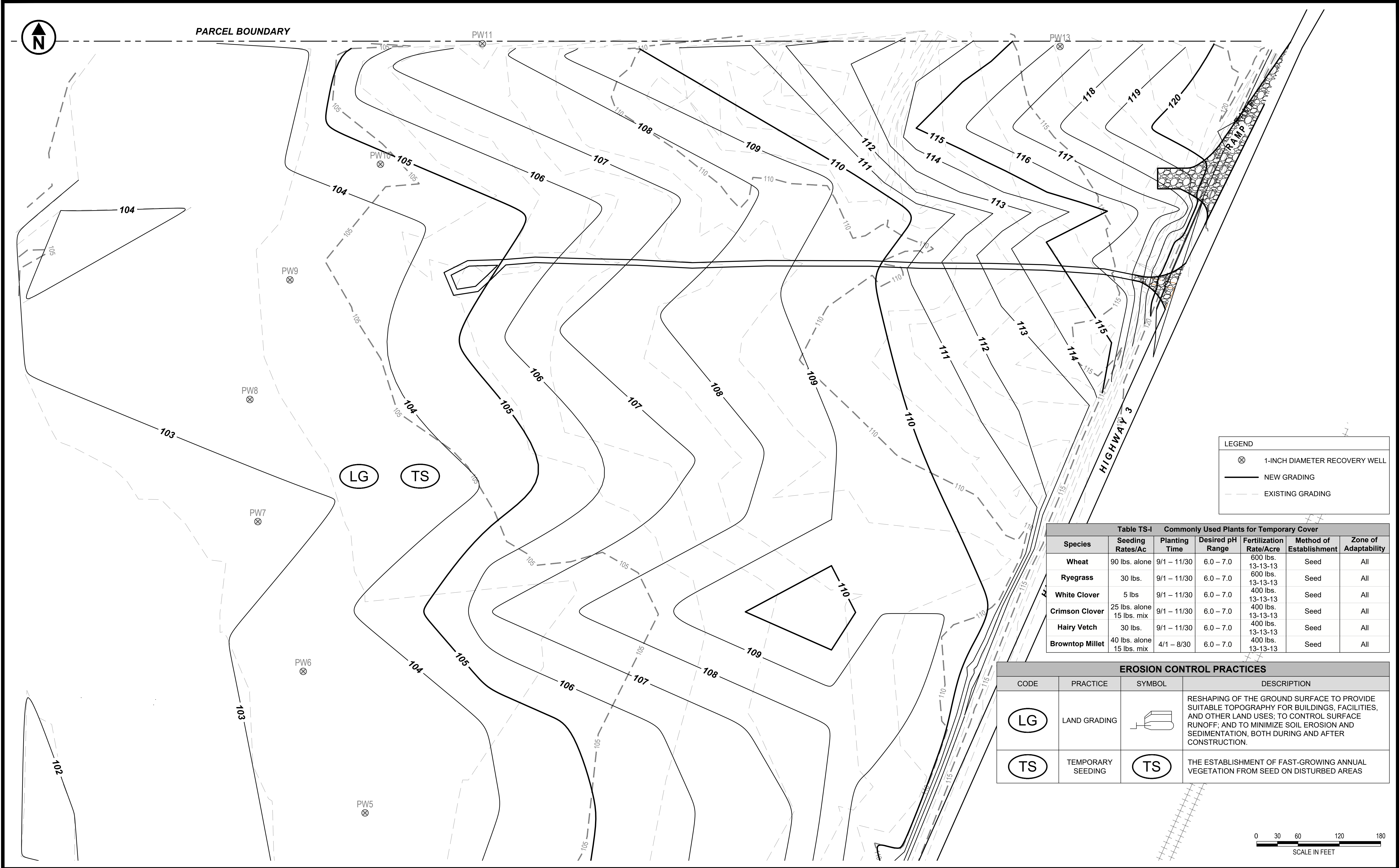
ES&PC PLAN – INITIAL PHASE

CRUPP, MISSISSIPPI

SHEET

C2

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REVISIONS			
NO.	DESCRIPTION	BY	DATE

DRAWING INFO.	
PROJECT #:	1690021854 (201)
DESIGNED:	KAC/JJ
APPROVED:	KAC
DRAFTER:	CKL
DATE:	5/21/2021

PROFESSIONAL ENGINEER CERTIFICATION	
KEITH ALAN COLE	MISSISSIPPI PROFESSIONAL ENGINEER #16986

CRUPP IN-SITU SOIL MIXING REMEDIATION PROJECT

ES&PC PLAN – INTERMEDIARY PHASE

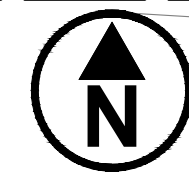
CRUPP, MISSISSIPPI

SHEET

C3

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PARCEL BOUNDARY



0 25 50 100 150
SCALE IN FEET



REVISIONS			
NO.	DESCRIPTION	BY	DATE

DRAWING INFO.	
PROJECT #:	1690021854 (201)
DESIGNED:	KAC/JJ
APPROVED:	KAC
DRAFTER:	CKL
DATE:	5/21/2021

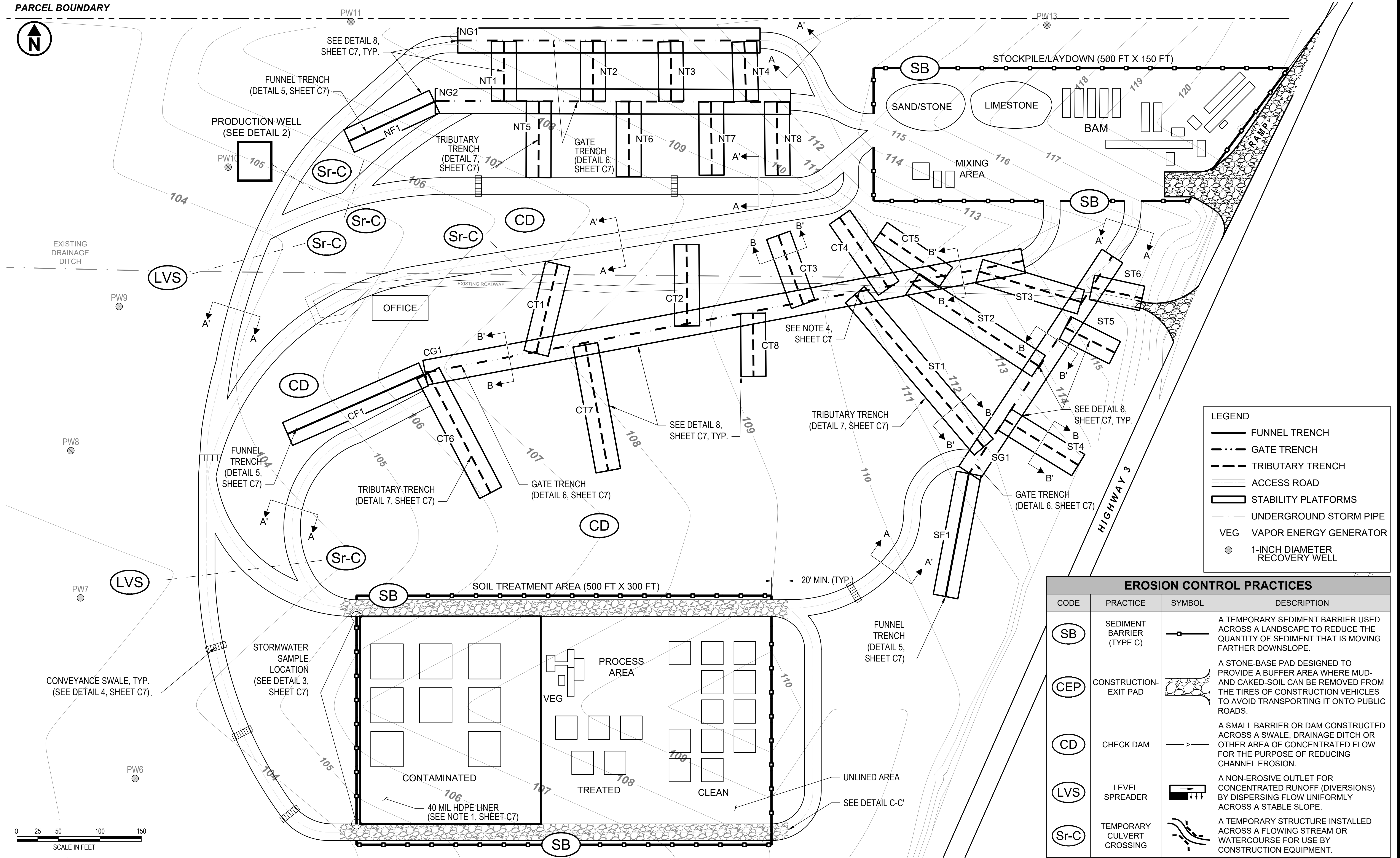
PROFESSIONAL ENGINEER CERTIFICATION	
KEITH ALAN COLE	MISSISSIPPI PROFESSIONAL ENGINEER #16986

CRUPP IN-SITU SOIL MIXING REMEDIATION PROJECT ES&PC PLAN – CONSTRUCTION PHASE

CRUPP, MISSISSIPPI

SHEET

C4



LEGEND	
	FUNNEL TRENCH
	GATE TRENCH
	TRIBUTARY TRENCH
	ACCESS ROAD
	STABILITY PLATFORMS
	UNDERGROUND STORM PIPE
	VEG VAPOR ENERGY GENERATOR
	1-INCH DIAMETER RECOVERY WELL

EROSION CONTROL PRACTICES			
CODE	PRACTICE	SYMBOL	DESCRIPTION
SB	SEDIMENT BARRIER (TYPE C)		A TEMPORARY SEDIMENT BARRIER USED ACROSS A LANDSCAPE TO REDUCE THE QUANTITY OF SEDIMENT THAT IS MOVING FARTHER DOWNSLOPE.
CEP	CONSTRUCTION-EXIT PAD		A STONE-BASE PAD DESIGNED TO PROVIDE A BUFFER AREA WHERE MUD- AND CAKED-SOIL CAN BE REMOVED FROM THE TIRES OF CONSTRUCTION VEHICLES TO AVOID TRANSPORTING IT ONTO PUBLIC ROADS.
CD	CHECK DAM		A SMALL BARRIER OR DAM CONSTRUCTED ACROSS A SWALE, DRAINAGE DITCH OR OTHER AREA OF CONCENTRATED FLOW FOR THE PURPOSE OF REDUCING CHANNEL EROSION.
LVS	LEVEL SPREADER		A NON-EROSIVE OUTLET FOR CONCENTRATED RUNOFF (DIVERSIONS) BY DISPERSING FLOW UNIFORMLY ACROSS A STABLE SLOPE.
Sr-C	TEMPORARY CULVERT CROSSING		A TEMPORARY STRUCTURE INSTALLED ACROSS A FLOWING STREAM OR WATERCOURSE FOR USE BY CONSTRUCTION EQUIPMENT.

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PROJECT NAME: CRUPP IN-SITU SOIL MIXING REMEDIATION
PROJECT LOCATION: 5.5 MILES SOUTH OF ROUTE 149 in YAZOO CITY, MISSISSIPPI
DISTURBED AREA: 26 ACRES
EXISTING LAND USE: VACANT FORMER AGRICULTURAL PROPERTY
SURROUNDING LAND USE: SURROUNDING LAND USE IS AGRICULTURAL
RUNOFF COEFFICIENT (C): 0.30
RECEIVING WATERS: YAZOO RIVER
OWNER/DEVELOPER NAME: COMET STREET, INC.
ADDRESS: 18473 HIGHWAY 3 SOUTH
CITY, STATE: YAZOO CITY, MS 39194
PHONE NUMBER: (601) 940-2002

EROSION AND SEDIMENT CONTROL PLAN NOTES

THE ESCAPE OF SEDIMENT FROM THE SITE SHALL BE PREVENTED BY THE INSTALLATION OF EROSION AND SEDIMENT CONTROL MEASURES AND PRACTICES PRIOR TO, OR CONCURRENT WITH LAND-DISTURBING ACTIVITIES

- THE TOTAL AREA OF THE SITE IS APPROXIMATELY 68 ACRES. APPROXIMATELY 26 OF WHICH WILL BE DISTURBED.
- EROSION CONTROL MEASURES WILL BE MAINTAINED AT ALL TIMES. IF FULL IMPLEMENTATION OF THE APPROVED PLAN DOES NOT PROVIDE FOR EFFECTIVE EROSION CONTROL, ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE IMPLEMENTED TO CONTROL OR TREAT THE SEDIMENT SOURCE.
- ANY AMENDMENT TO THE EROSION CONTROL PLANS WHICH HAVE A SIGNIFICANT EFFECT ON BMPS WITH A HYDRAULIC COMPONENT MUST BE CERTIFIED BY THE DESIGN PROFESSIONAL.
- FAILURE TO PROPERLY INSTALL AND MAINTAIN EROSION CONTROL PRACTICES MAY RESULT IN CONSTRUCTION BEING HALTED.
- EROSION CONTROL MEASURES SHALL BE INSPECTED AT LEAST DAILY AND FOLLOWING EACH RAIN EVENT OF 0.5 INCHES OR GREATER IN A 24-HR PERIOD FOR THE ENTIRE CONSTRUCTION PERIOD AND ANY DEFICIENCIES ARE TO BE REPAIRED BY THE CONTRACTOR.
- TEMPORARY OR PERMANENT VEGETATIVE STABILIZATION SHALL BE PROVIDED WITHIN TWO WEEKS OF COMPLETING REMOVAL ACTIVITIES.
- A RESPONSE TO A NOTIFICATION OF NON COMPLIANCE OR INADEQUATE MEASURES SHALL BE MADE WITHIN 24 HOURS AFTER RECEIVING SUCH NOTIFICATION. UNLESS OTHERWISE SPECIFIED FOR CONDITIONS DEEMED CRITICAL.
- STORM WATER ACROSS THE ENTIRE PROJECT AREA TRAVELS VIA SHEET FLOW.
- THE CONSTRUCTION ACTIVITIES WILL NOT DISCHARGE STORM WATER INTO AN IMPAIRED STREAM SEGMENT, OR WITHIN 1 LINEAR MILE UPSTREAM OF AND WITHIN THE SAME WATERSHED AS, ANY PORTION OF A BIOTA IMPAIRED STREAM SEGMENT, THEREFORE A TMDL IMPLEMENTATION PLAN FOR SEDIMENT WAS NOT DEVELOPED.
- BMPS FOR CONCRETE WASHDOWN OF TOOLS, CONCRETE MIXER CHUTES, HOPPERS AND THE REAR OF THE VEHICLES ARE NOT REQUIRED FOR THIS PROJECT.
- IMPLEMENTATION AND MAINTENANCE:
 - IMPLEMENTATION
 - NO CLEARING, GRADING, FILLING, OR OTHER LAND DISTURBING ACTIVITIES SHALL BE PERMITTED UNTIL EROSION AND SEDIMENT CONTROL MEASURES HAVE BEEN INSTALLED. EXCEPT THOSE OPERATIONS NEEDED TO INSTALL SUCH MEASURES.
 - THESE EROSION AND SEDIMENT CONTROL MEASURES SHALL APPLY TO ALL FEATURES OF THE CONSTRUCTION SITE.
 - MAINTENANCE:
 - ALL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE CONTINUOUSLY MAINTAINED BY THE CONTRACTOR DURING THE CONSTRUCTION PHASE OF THE DEVELOPMENT AND UNTIL PERMANENT STABILIZATION OF DITCHES, SHOULDERS, SLOPES AND ALL DISTURBED AREAS IS ACCOMPLISHED TO ELIMINATE THE NEED FOR THE TEMPORARY CONTROL MEASURES WHICH SHALL THEN BE REMOVED BY SAME.
- SEEDING SPECIFICATIONS AND APPLICATION RATES ARE SHOWN ON SHEET C8 FOR TEMPORARY AND/OR PERMANENT SEEDING. A VARIETY SUBSTITUTED FOR THAT SHOWN ON THE PLANS MAY BE UTILIZED ONLY WITH THE APPROVAL OF THE COUNTY ENGINEERING DEPARTMENT AND THE OWNER.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR KEEPING SUITABLE EQUIPMENT ON HAND AT THE JOB SITE FOR MAINTENANCE OF DUST CONTROL.

SAMPLING:

- SAMPLING AND MONITORING WILL BE CONDUCTED AT AN ON SITE DRAINAGE DITCH SHOWN ON SHEET C4. THE SAMPLES WILL BE ANALYZED FOR NEPHELOMETRIC TURBIDITY. STORM WATER ACROSS THE ENTIRE PROJECT AREA TRAVELS VIA SHEET FLOW THEREFORE NO OUTFALL SAMPLING SHALL BE CONDUCTED.
- RECEIVING WATER SAMPLES WILL BE COLLECTED BY "GRAB SAMPLES" AND THE ANALYSIS OF THE SAMPLES WILL BE CONDUCTED IN ACCORDANCE WITH METHODOLOGY AND TEST PROCEDURE ESTABLISHED BY 40 CFR PART 136 (UNLESS OTHER TEST PROCEDURES HAVE BEEN APPROVED); THE GUIDANCE DOCUMENT TITLED "NPDES STORM WATER SAMPLING GUIDANCE DOCUMENT, EPA 833-B-92-001" AND GUIDANCE DOCUMENTS THAT MAY BE PREPARED BY THE MDEQ.
- SAMPLE CONTAINERS WILL BE LABELED PRIOR TO COLLECTING THE SAMPLES
- SAMPLES WILL BE WELL MIXED BEFORE TRANSFERRING TO A SECONDARY CONTAINER.
- LARGE MOUTH, WELL-CLEANED AND RINSED GLASS OR PLASTIC JARS PROVIDED BY THE LABORATORY WILL BE USED FOR COLLECTING SAMPLES. SAMPLING CONTAINERS WILL BE HELD SO THAT THE OPENING FACES UPSTREAM.
- THE UPSTREAM SAMPLE WILL BE TAKEN IMMEDIATELY UPSTREAM OF THE CONFLUENCE OF THE FIRST STORM WATER DISCHARGE FROM THE PERMITTED ACTIVITY (I.E., THE DISCHARGE FARTEST UPSTREAM AT THE SITE) BUT DOWNSTREAM OF ANY OTHER STORM WATER DISCHARGES NOT ASSOCIATED WITH THE PERMITTED ACTIVITY.
- THE DOWNSTREAM SAMPLE WILL BE TAKEN DOWNSTREAM OF THE CONFLUENCE OF THE LAST STORM WATER DISCHARGE FROM THE PERMITTED ACTIVITY (I.E., THE DISCHARGE FARTEST DOWNSTREAM AT THE SITE) BUT UPSTREAM OF ANY OTHER STORM WATER DISCHARGE NOT ASSOCIATED WITH THE PERMITTED ACTIVITY.
- SAMPLES WILL BE TAKEN FROM THE HORIZONTAL AND VERTICAL CENTER OF THE RECEIVING WATER. CARE WILL BE TAKEN TO AVOID STIRRING THE BOTTOM SEDIMENTS IN THE RECEIVING WATER.
- SAMPLING SHALL OCCUR AFTER THE FIRST RAIN EVENT THAT REACHES OR EXCEEDS 0.5 INCH WITH A STORM WATER DISCHARGE THAT OCCURS DURING NORMAL BUSINESS HOURS (MONDAY THROUGH FRIDAY 8:00AM TO 5:00PM WHEN CONSTRUCTION ACTIVITY IS BEING CONDUCTED BY THE PRIMARY PERMITTEE) AFTER ALL CLEARING AND GRUBBING OPERATIONS HAVE BEEN COMPLETED, BUT PRIOR TO COMPLETION OF MASS GRADING OPERATIONS IN THE DRAINAGE AREA OF THE LOCATION SELECTED AS THE SAMPLING LOCATION.
- SAMPLING SHALL OCCUR AFTER THE FIRST RAIN EVENT THAT REACHES OR EXCEEDS 0.5 INCH WITH A STORM WATER DISCHARGE THAT OCCURS DURING NORMAL BUSINESS HOURS (MONDAY THROUGH FRIDAY 8:00AM TO 5:00PM WHEN CONSTRUCTION ACTIVITY IS BEING CONDUCTED BY THE PRIMARY PERMITTEE) EITHER 90 DAYS AFTER THE FIRST SAMPLING EVENT OR AFTER ALL MASS GRADING OPERATIONS HAVE BEEN COMPLETED, BUT PRIOR TO SUBMITTAL OF A NOTICE OF TERMINATION (NOT), IN THE DRAINAGE AREA OF THE LOCATION SELECTED AS THE SAMPLING LOCATION, WHICHEVER COMES FIRST.
- AT THE TIME OF SAMPLING, IF BMPS IN ANY AREA OF THE SITE ARE NOT PROPERLY DESIGNED, INSTALLED AND MAINTAINED, CORRECTIVE ACTION SHALL BE DEFINED AND IMPLEMENTED WITHIN TWO (2) BUSINESS DAYS, AND TURBIDITY SAMPLES SHALL BE TAKEN FOR EACH SUBSEQUENT RAIN EVENT THAT REACHES OR EXCEEDS 0.5 INCH DURING NORMAL BUSINESS HOURS UNTIL THE SELECTED TURBIDITY STANDARD IS ATTAINED, OR UNTIL POST-STORM EVENT INSPECTIONS DETERMINE THAT BMPS ARE PROPERLY DESIGNED, INSTALLED AND MAINTAINED.

REPORTING:

- SAMPLE RESULTS WILL BE SUBMITTED TO THE MDEQ BY THE FIFTEENTH DAY OF THE MONTH FOLLOWING THE REPORTING PERIOD. REPORTING PERIODS ARE MONTHS DURING WHICH SAMPLES ARE TAKEN IN ACCORDANCE WITH THIS PERMIT. SAMPLING RESULTS SHALL BE IN CLEARLY LEGIBLE FORMAT. UPON WRITTEN NOTIFICATION, MDEQ MAY REQUIRE THE APPLICABLE PERMITTEE TO SUBMIT THE SAMPLING RESULTS ON A MORE FREQUENT BASIS. SAMPLING AND ANALYSIS OF ANY STORM WATER DISCHARGE(S) OR THE RECEIVING WATER(S) BEYOND THE MINIMUM FREQUENCY STATED IN THIS PERMIT MUST BE REPORTED IN A SIMILAR MANNER TO THE MDEQ. THE SAMPLING REPORTS MUST BE SIGNED. SAMPLING REPORTS MUST BE SUBMITTED TO MDEQ UNTIL SUCH TIME AS A NOT IS SUBMITTED.
- ALL SAMPLING REPORTS SHALL INCLUDE THE FOLLOWING INFORMATION:
 - THE RAINFALL AMOUNT, DATE, EXACT PLACE AND TIME OF SAMPLING OR MEASUREMENTS;
 - THE NAME(S) OF THE PERSONNEL WHO PERFORMED THE SAMPLING AND MEASUREMENTS;
 - THE DATE(S) ANALYSES WERE PERFORMED;
 - THE TIME(S) ANALYSES WERE INITIATED;
 - RESULTS WHICH EXCEED 1000 NTU SHALL BE REPORTED AS "EXCEEDS 1000 NTU;" AND
 - CERTIFICATION STATEMENT THAT SAMPLING WAS CONDUCTED AS PER THE PLAN.

RETENTION OF RECORDS:

THE FOLLOWING RECORDS WILL BE MAINTAINED ON SITE FOR THE DURATION OF THE PROJECT:

- A COPY OF THE NOTICE OF INTENT SUBMITTED TO MDEQ
- A COPY OF THE ESC PLAN
- THE DESIGN PROFESSIONAL'S REPORT OF THE RESULTS OF THE INSPECTION CONDUCTED
- A COPY OF ALL SAMPLING INFORMATION, RESULTS, AND REPORTS
- A COPY OF ALL INSPECTION REPORTS GENERATED
- A COPY OF ALL VIOLATION SUMMARIES AND VIOLATION SUMMARY REPORTS GENERATED
- DAILY RAINFALL INFORMATION GENERATED.
- COPIES OF ALL NOTICES OF INTENT, NOTICES OF TERMINATION, INSPECTION REPORTS, SAMPLING REPORTS (INCLUDING ALL CALIBRATION AND MAINTENANCE RECORDS AND ALL ORIGINAL STRIP CHART RECORDINGS FOR CONTINUOUS MONITORING INSTRUMENTATION) OR OTHER REPORTS REQUESTED BY THE MDEQ, EROSION, SEDIMENTATION AND POLLUTION CONTROL PLANS, RECORDS OF ALL DATA USED TO COMPLETE THE NOTICE OF INTENT TO BE COVERED BY THIS PERMIT AND ALL OTHER RECORDS REQUIRED BY THIS PERMIT SHALL BE RETAINED BY THE PERMITTEE WHO EITHER PRODUCED OR USED IT FOR A PERIOD OF AT LEAST THREE YEARS FROM THE DATE THAT THE NOT IS SUBMITTED. THESE RECORDS MUST BE MAINTAINED AT THE PERMITTEE'S PRIMARY PLACE OF BUSINESS OR AT A DESIGNATED ALTERNATIVE LOCATION ONCE THE CONSTRUCTION ACTIVITY HAS CEASED AT THE PERMITTED SITE. THIS PERIOD MAY BE EXTENDED BY REQUEST OF THE MDEQ AT ANY TIME UPON WRITTEN NOTIFICATION TO THE PERMITTEE.

24-HOUR EROSION AND SEDIMENTATION CONTROL CONTACT:
SHIAR RAHAIM, JR
(601) 927-4798

PHASE 1 - INSTALLATION OF EROSION CONTROL MEASURES

- PRIOR TO COMMENCING LAND DISTURBANCE ACTIVITY, THE LIMITS OF LAND DISTURBANCE SHALL BE CLEARLY AND ACCURATELY DEMARCATED WITH STAKES, RIBBONS, OR OTHER APPROPRIATE MEANS. THE LOCATION AND EXTENT OF ALL AUTHORIZED LAND DISTURBANCE ACTIVITY SHALL BE DEMARCATED FOR THE DURATION OF THE CONSTRUCTION ACTIVITY. NO LAND DISTURBANCE SHALL OCCUR OUTSIDE THE APPROVED LIMITS INDICATED ON THE APPROVED PLANS.
- PRIOR TO ANY OTHER WORK ACTIVITY, A TEMPORARY CONSTRUCTION-EXIT PAD SHALL BE INSTALLED AT THE LOCATION SHOWN ON SHEET C3.
- IMMEDIATELY AFTER THE ESTABLISHMENT OF THE TEMPORARY CONSTRUCTION-EXIT PAD, ALL PERIMETER EROSION CONTROL AND STORMWATER MANAGEMENT DEVICES SHALL BE INSTALLED AS SHOWN ON SHEET C3 EROSION CONTROL PLAN.
- TYPE "C" SILT FENCE SHOULD BE INSTALLED AT THE PERIMETER OF THE DISTURBED AREAS AS SHOWN ON THE PLANS AS WELL AS THE PERIMETER OF THE MATERIALS STOCKPILE AND SOIL STOCKPILE AREAS. SILT SHOULD BE REMOVED WHEN ACCUMULATION REACHES ½ HEIGHT OF THE BARRIER. THE PERIMETER SILT FENCE SHOULD BE INSPECTED DAILY FOR ANY FAILURES. ANY FAILURES OF SAID FENCING SHOULD BE REPAIRED IMMEDIATELY.
- AFTER THE INSTALLATION OF INITIAL EROSION CONTROL MEASURES THE SITE CONTRACTOR SHALL SCHEDULE AN INSPECTION BY THE PROJECT DESIGN PROFESSIONAL. NO OTHER CONSTRUCTION ACTIVITIES SHALL OCCUR UNTIL THE PROJECT PROFESSIONAL APPROVES THE INSTALLATION OF SAID EROSION CONTROL MEASURES. IF UNFORESEEN CONDITIONS EXIST IN THE FIELD THAT WARRANT ADDITIONAL EROSION CONTROL MEASURES, THE CONTRACTOR MUST CONSTRUCT ANY ADDITIONAL EROSION CONTROL DEVICES DEEMED NECESSARY BY THE SITE INSPECTION WITH CONSULTATION WITH DESIGN PROFESSIONAL.
- AFTER APPROVAL OF THE INITIAL EROSION CONTROL INSTALLATION, THE CONTRACTOR MAY PROCEED WITH CONSTRUCTION OF THE TRENCH STABILITY PLATFORMS.
- MULCH OR TEMPORARY GRASSING SHALL BE APPLIED TO ALL EXPOSED AREAS WITHIN 14 DAYS OF LAND DISTURBANCE (MAY REQUIRE LESS).
- ALL DISTURBED AREAS LEFT MULCHED AFTER 30 DAYS SHALL BE STABILIZED WITH TEMPORARY GRASSING.
- CONTRACTOR SHALL INSPECT CONTROL MEASURES AT THE END OF EACH WORKING DAY TO ENSURE MEASURES ARE FUNCTIONING PROPERLY.
- EROSION CONTROL MEASURES WILL BE MAINTAINED AT ALL TIMES. IF FULL IMPLEMENTATION OF THE APPROVED PLAN DOES NOT PROVIDE FOR EFFECTIVE EROSION CONTROL, ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE IMPLEMENTED TO CONTROL OR TREAT THE SEDIMENT SOURCE AS DIRECTED BY THE ONSITE INSPECTOR OR DESIGN PROFESSIONAL.
- FAILURE TO INSTALL, OPERATE, OR MAINTAIN ALL EROSION CONTROL MEASURES WILL RESULT IN ALL CONSTRUCTION BEING STOPPED ON THE JOB UNTIL SUCH MEASURES ARE CORRECTED BACK TO THE APPROVED EROSION CONTROL PLANS, I.E., MANDATORY STOP WORK ORDER!
- THE DESIGN PROFESSIONAL WHO PREPARED THE ESC PLAN WILL INSPECT THE INSTALLATION OF THE INITIAL SEDIMENT STORAGE REQUIREMENTS AND PERIMETER CONTROL BMPS WITHIN 7 DAYS AFTER INSTALLATION.
- IF THE CONTRACTOR DETERMINES THROUGH DAILY INSPECTIONS THAT THE EROSION AND SEDIMENTATION
- IF CONTROL DESIGN BMPS PUT IN PLACE ARE NOT EFFECTIVE AT PREVENTING SILT AND SEDIMENT FROM LEAVING THE SITE, THE CONTRACTOR IS TO STOP WORK IMMEDIATELY AND CONTACT THE DESIGN PROFESSIONAL TO EVALUATE AND REMEDY THE DESIGN. THE CONTRACTOR WILL ULTIMATELY BE RESPONSIBLE TO ENSURE THAT THE BMPS PRESENTED IN THIS PLAN ARE EFFECTIVE AT SEDIMENT REMOVAL.
- THE DISTURBED PROJECT AREA ENCOMPASSES 26 ACRES. THEREFORE BASED ON THE 67 CUBIC YARD (CY) PER ACRE DRAINED OF SEDIMENT STORAGE CAPACITY REQUIREMENT A STORAGE CAPACITY OF 737 CY OF SEDIMENT IS REQUIRED FOR THE PROJECT. USING TYPE "C" SILT FENCE WITH A STORAGE CAPACITY OF 0.483 CY PER LINEAR FOOT, 1,526 FEET OF SILT FENCE IS NEEDED. A TOTAL OF 4,269 FEET OF SILT FENCE WILL BE INSTALLED WHICH SHALL PROVIDE APPROXIMATELY 2.8 TIMES MORE STORAGE CAPACITY THAN REQUIRED.

Pollution Prevention Measures

Good Housekeeping

- An effort will be made to store only enough materials to do the job
- All materials onsite will be stored in a neat, orderly manner in their appropriate containers and, if possible, under one roof or enclosure.
- Products will be kept in their original container with original manufacturer's label.
- Substances will not be mixed with one another unless recommended by the manufacturer.
- Whenever possible, all of a product will be used up before container is disposed of.

Product Specific Practices

Petroleum Products:

All onsite vehicles will be monitored for leaks and receive regular preventive maintenance to reduce the chance of leakage. Petroleum products will be stored in tightly sealed containers which are clearly labeled. Any petroleum to be stored in tanks will be surrounded by an earthen berm as a secondary protective measure. Any Asphalt substances used onsite will be applied according to the manufacturer's recommendations.

Sanitary Wastes:

Keep Porta-Johns away from storm drain inlets and receiving bodies of water or rinsing of Porta-Johns in to storm inlets or receiving bodies of water. Runoff from Porta-Johns into water systems is a violation of Federal, State, and Local ordinances.

Waste Disposal:

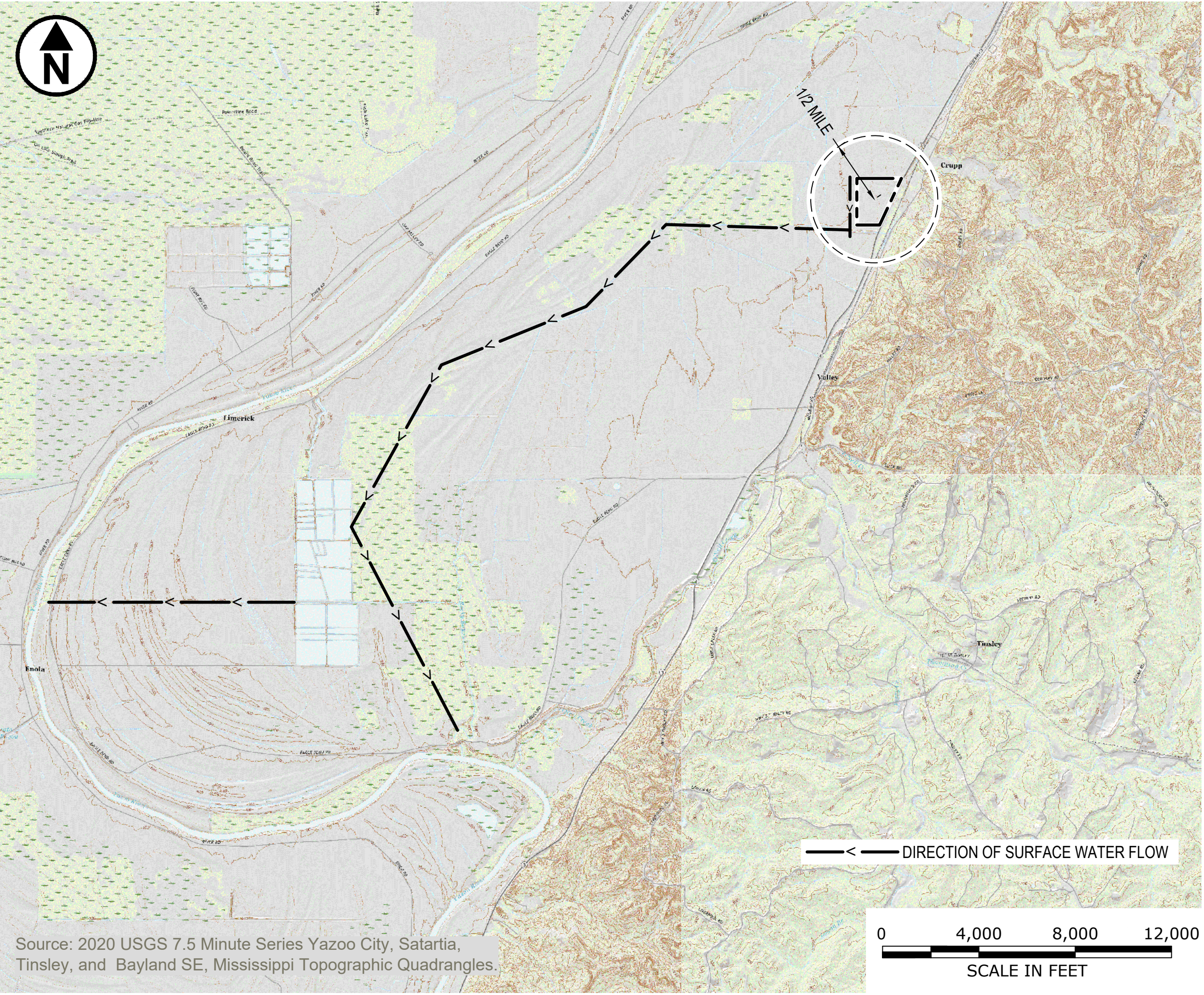
No waste materials will be buried or disposed of onsite. All waste materials will be collected and stored in a securely lidded metal dumpster that meets all solid waste regulations. Waste materials will be removed from the site, hauled, and properly disposed of according to local regulations. Waste materials shall not be discharged to waters of the State, except as authorized by a Section 404 of the permit.

PHASE 2 - TRENCHING WORK

- INITIALLY, CRITICAL WORK ZONES WITHIN THE TRENCHING WORK AREAS WILL BE DEFINED.
- COMMUNICATION WITH CONTRACTOR/INSPECTOR MUST BE MAINTAINED AT ALL TIMES.
- DURING TRENCHING, THE CONTRACTOR SHALL MAINTAIN CAREFUL SCHEDULING AND PERFORMANCE TO ENSURE THAT LAND STRIPPED OF ITS NATURAL GROUND COVER IS EXPOSED ONLY IN SMALL QUANTITIES AND THEREFORE LIMITED DURATION, BEFORE PERMANENT EROSION PROTECTION IS ESTABLISHED.
- MAINTAIN FULL COORDINATION WITH THE DESIGN PROFESSIONAL AND CONTRACTOR AT ALL TIMES REGARDING PROJECT SEQUENCE.
- EROSION CONTROL DEVICES SHALL BE INSTALLED PRIOR TO GROUND DISTURBANCE OCCURS. THE LOCATION OF SOME OF THE EROSION CONTROL DEVICES MAY HAVE TO BE ALTERED FROM THAT SHOWN ON THE APPROVED PLANS IF DRAINAGE PATTERNS DURING CONSTRUCTION ARE DIFFERENT FROM THE FINAL PROPOSED DRAINAGE PATTERNS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ACCOMPLISH EROSION CONTROL FOR ALL DRAINAGE PATTERNS CREATED AT VARIOUS STAGES DURING CONSTRUCTION. ANY DIFFICULTY IN CONTROLLING EROSION DURING ANY PHASE OF CONSTRUCTION SHALL BE REPORTED TO THE DESIGN PROFESSIONAL IMMEDIATELY.
- SEDIMENT AND EROSION CONTROL MEASURES SHOULD BE CHECKED AFTER EACH RAIN EVENT. EACH DEVICE IS TO BE MAINTAINED OR REPLACED IF SEDIMENT ACCUMULATION HAS REACHED ¼ THE CAPACITY OF THE DEVICE. ADDITIONAL DEVICES MUST BE INSTALLED IF NEW CHANNELS HAVE DEVELOPED.
- THE TEMPORARY CONSTRUCTION-EXIT PAD SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACK OR FLOW OF MUD ONTO PUBLIC RIGHT-OF-WAY. ANY MATERIALS SPILLED, DROPPED, WASHED OR TRACKED FROM VEHICLE ONTO PUBLIC ROADWAY OR INTO STORM DRAIN MUST BE REMOVED IMMEDIATELY.
- CONTRACTOR SHALL INSPECT CONTROL MEASURES AT THE END OF EACH WORKING DAY TO ENSURE MEASURES ARE FUNCTIONING PROPERLY.
- EROSION CONTROL MEASURES WILL BE MAINTAINED AT ALL TIMES. IF FULL IMPLEMENTATION OF THE APPROVED PLAN DOES NOT PROVIDE FOR EFFECTIVE EROSION CONTROL, ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE IMPLEMENTED TO CONTROL OR TREAT THE SEDIMENT SOURCE AS DIRECTED BY THE ONSITE INSPECTOR OR THE DESIGN PROFESSIONAL.
- FAILURE TO INSTALL, OPERATE OR MAINTAIN ALL EROSION CONTROL MEASURES WILL RESULT IN CONSTRUCTION BEING STOPPED ON THE JOB UNTIL SUCH MEASURES ARE CORRECTED BACK TO THE APPROVED EROSION CONTROL PLANS. NOTE: STOP WORK ORDER

PHASE 3 - SITE RESTORATION

- MAINTAIN FULL COORDINATION WITH THE DESIGN PROFESSIONAL, CONTRACTOR, AND REGULATORY INSPECTOR AT ALL TIMES REGARDING PROJECT SEQUENCE.
- TEMPORARY CONSTRUCTION ROADWAYS AND THE MATERIALS AND SOIL STOCKPILE AREAS WILL BE REMOVED AND MULCH OR TEMPORARY GRASSING SHALL BE APPLIED TO ALL EXPOSED AREAS WITHIN 14 DAYS OF LAND DISTURBANCE.
- ALL DISTURBED AREAS LEFT MULCHED AFTER 30 DAYS SHALL BE STABILIZED WITH TEMPORARY GRASSING.
- THE CONTRACTOR SHALL MAINTAIN ALL EROSION CONTROL MEASURES UNTIL PERMANENT GROUND COVER IS ESTABLISHED.
- SEDIMENT AND EROSION CONTROL MEASURES SHOULD BE CHECKED AFTER EACH RAIN EVENT. EACH DEVICE IS TO BE MAINTAINED OR REPLACED IF SEDIMENT ACCUMULATION HAS REACHED 1/2 THE CAPACITY OF THE DEVICE. ADDITIONAL DEVICES MUST BE INSTALLED IF NEW CHANNELS HAVE DEVELOPED.
- EROSION CONTROL MEASURES WILL BE MAINTAINED AT ALL TIMES. IF FULL IMPLEMENTATION OF THE APPROVED PLAN DOES NOT PROVIDE FOR EFFECTIVE EROSION CONTROL, ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE IMPLEMENTED TO CONTROL OR TREAT THE SEDIMENT SOURCE AS DIRECTED BY THE ON SITE INSPECTOR OR THE DESIGN PROFESSIONAL.



REVISIONS			
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KEITH ALAN COLE MISSISSIPPI PROFESSIONAL ENGINEER #16986

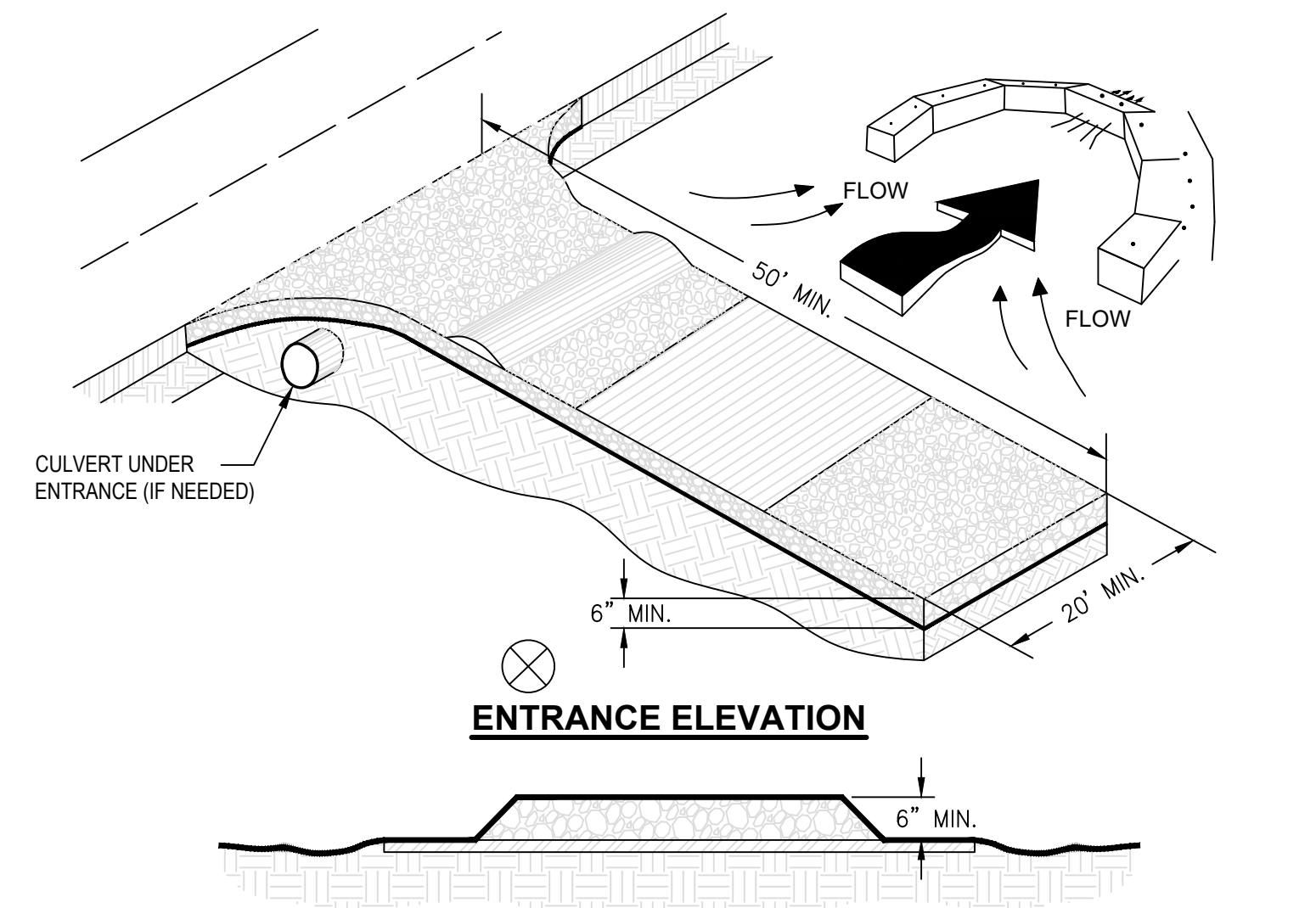
CRUPP IN-SITU SOIL MIXING REMEDIATION PROJECT
SOIL EROSION AND SEDIMENT CONTROL NOTES

CRUPP, MISSISSIPPI

SHEET

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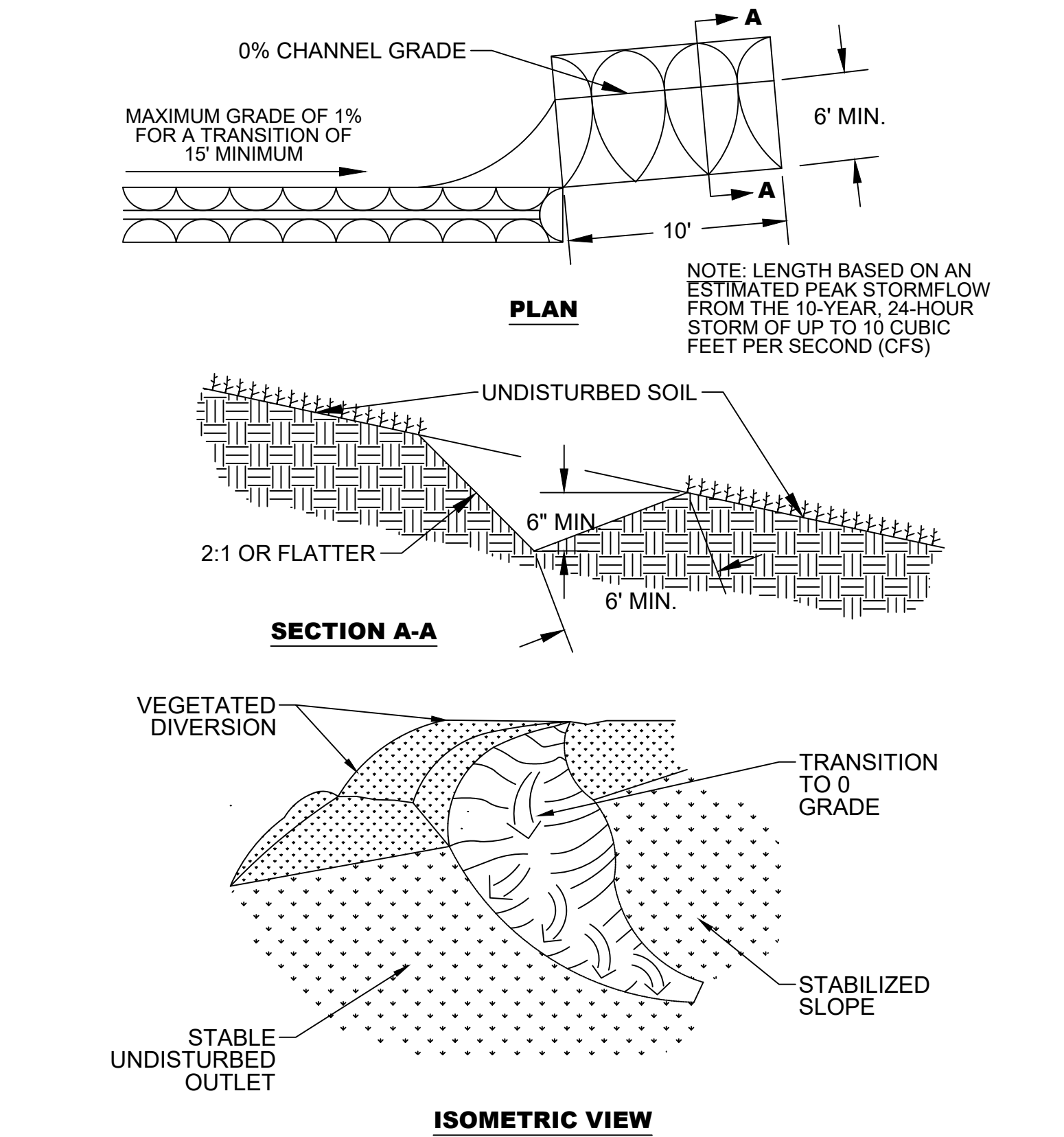
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- NOTES:**
1. AVOID LOCATING ON STEEP SLOPES OR AT CURVES ON PUBLIC ROADS.
 2. REMOVE ALL VEGETATION AND OTHER UNSUITABLE MATERIAL FROM THE FOUNDATION AREA, GRADE, AND CROWN FOR POSITIVE DRAINAGE.
 3. AGGREGATE SIZE SHALL BE IN ACCORDANCE WITH NATIONAL STONE ASSOCIATION R-2 (1.5"-3.5" STONE).
 4. GRAVEL PAD SHALL HAVE A MINIMUM THICKNESS OF 6".
 5. PAD WIDTH SHALL BE EQUAL FULL WIDTH AT ALL POINTS OF VEHICULAR EGRESS, BUT NO LESS THAN 20'.
 6. A DIVERSION RIDGE SHOULD BE CONSTRUCTED WHEN GRADE TOWARD PAVED AREA IS GREATER THAN 2%.
 7. INSTALL PIPE UNDER THE ENTRANCE IF NEEDED TO MAINTAIN DRAINAGE DITCHES.
 8. WHEN WASHING IS REQUIRED, IT SHOULD BE DONE ON AN AREA STABILIZED WITH CRUSHED STONE THAT DRAINS INTO AN APPROVED SEDIMENT TRAP OR SEDIMENT BASIN (DIVERT ALL SURFACE RUNOFF AND DRAINAGE FROM THE ENTRANCE TO A SEDIMENT CONTROL DEVICE).
 9. WASHRACKS AND/OR TIRE WASHERS MAY BE REQUIRED DEPENDING ON SCALE AND CIRCUMSTANCE. IF NECESSARY, WASHRACK DESIGN MAY CONSIST OF ANY MATERIAL SUITABLE FOR TRUCK TRAFFIC THAT REMOVE MUD AND DIRT.
 10. MAINTAIN AREA IN A WAY THAT PREVENTS TRACKING AND/OR FLOW OF MUD ONTO PUBLIC RIGHTS-OF-WAYS. THIS MAY REQUIRE TOP DRESSING, REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT.

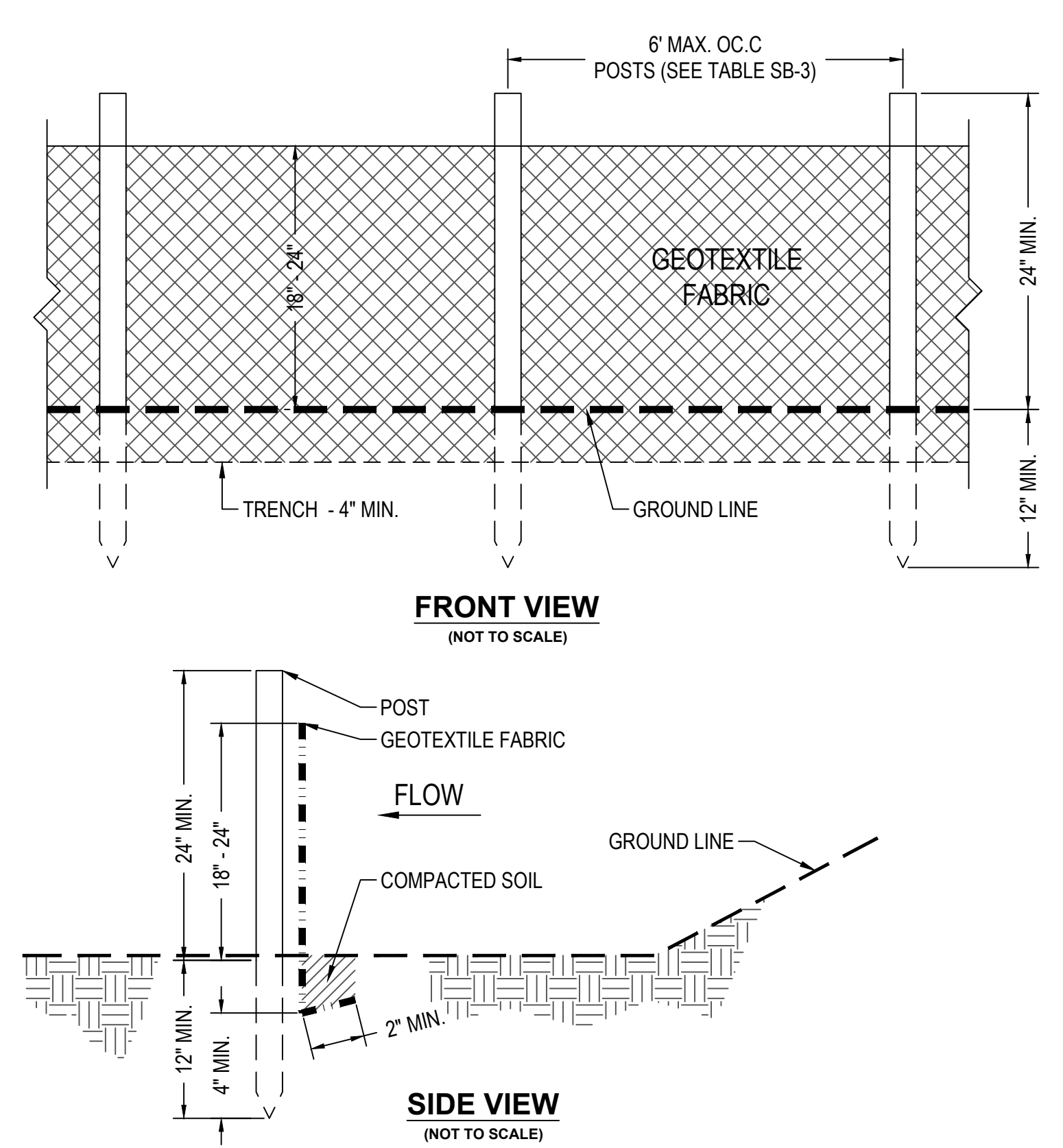
CEP CONSTRUCTION-EXIT PAD

NOT TO SCALE



LVS LEVEL SPREADER

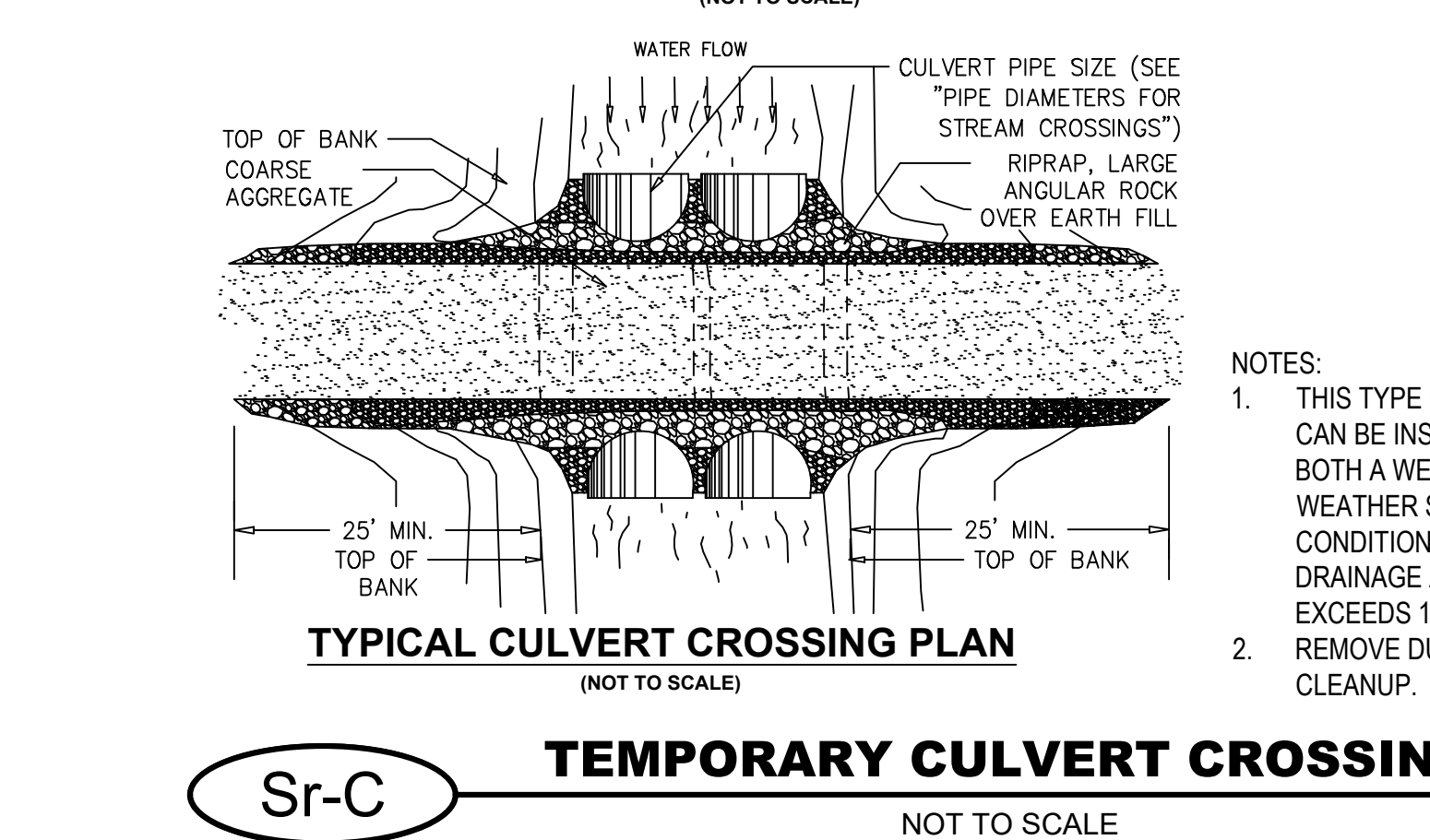
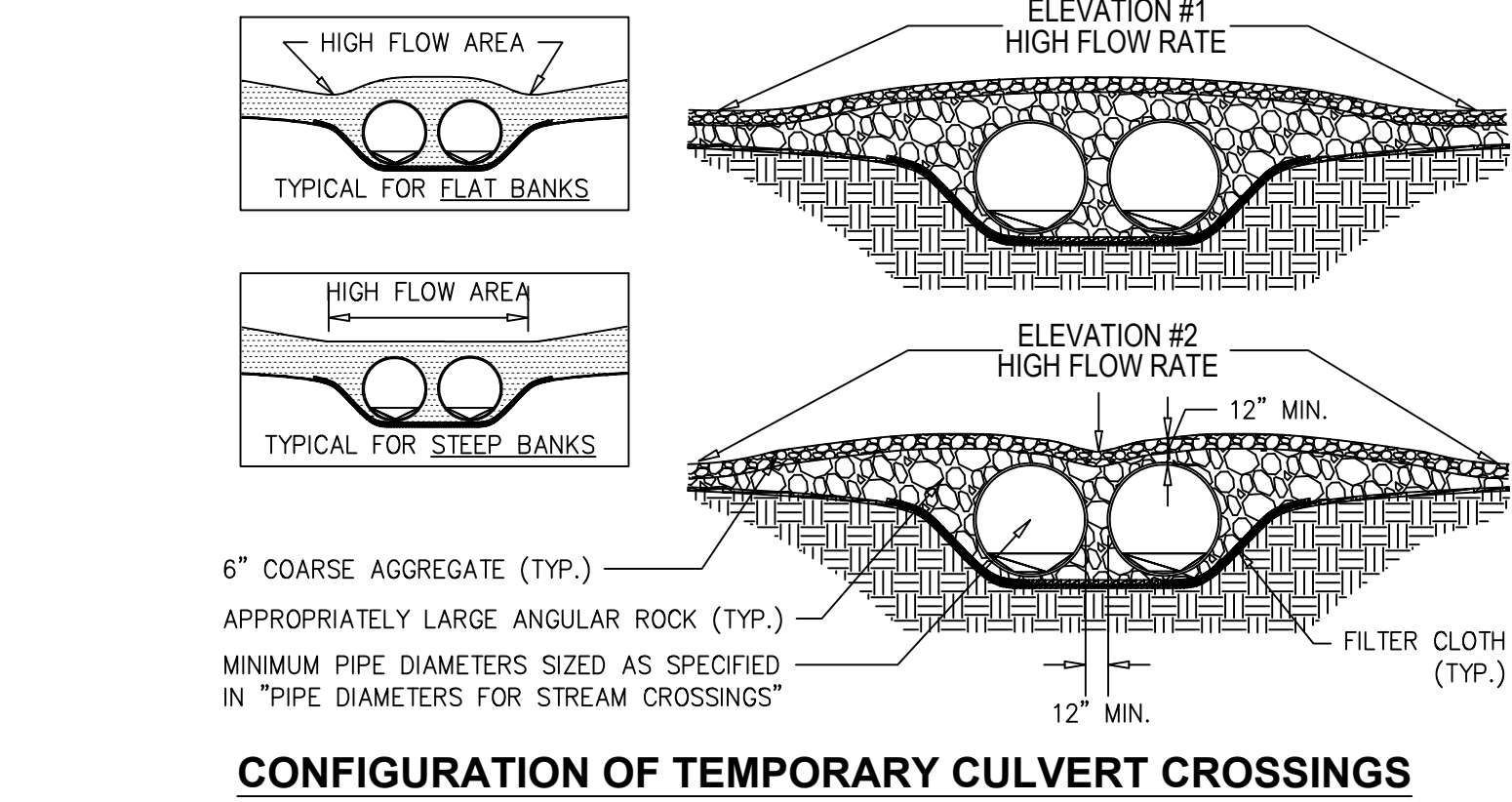
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SB TYPE C SEDIMENT BARRIER

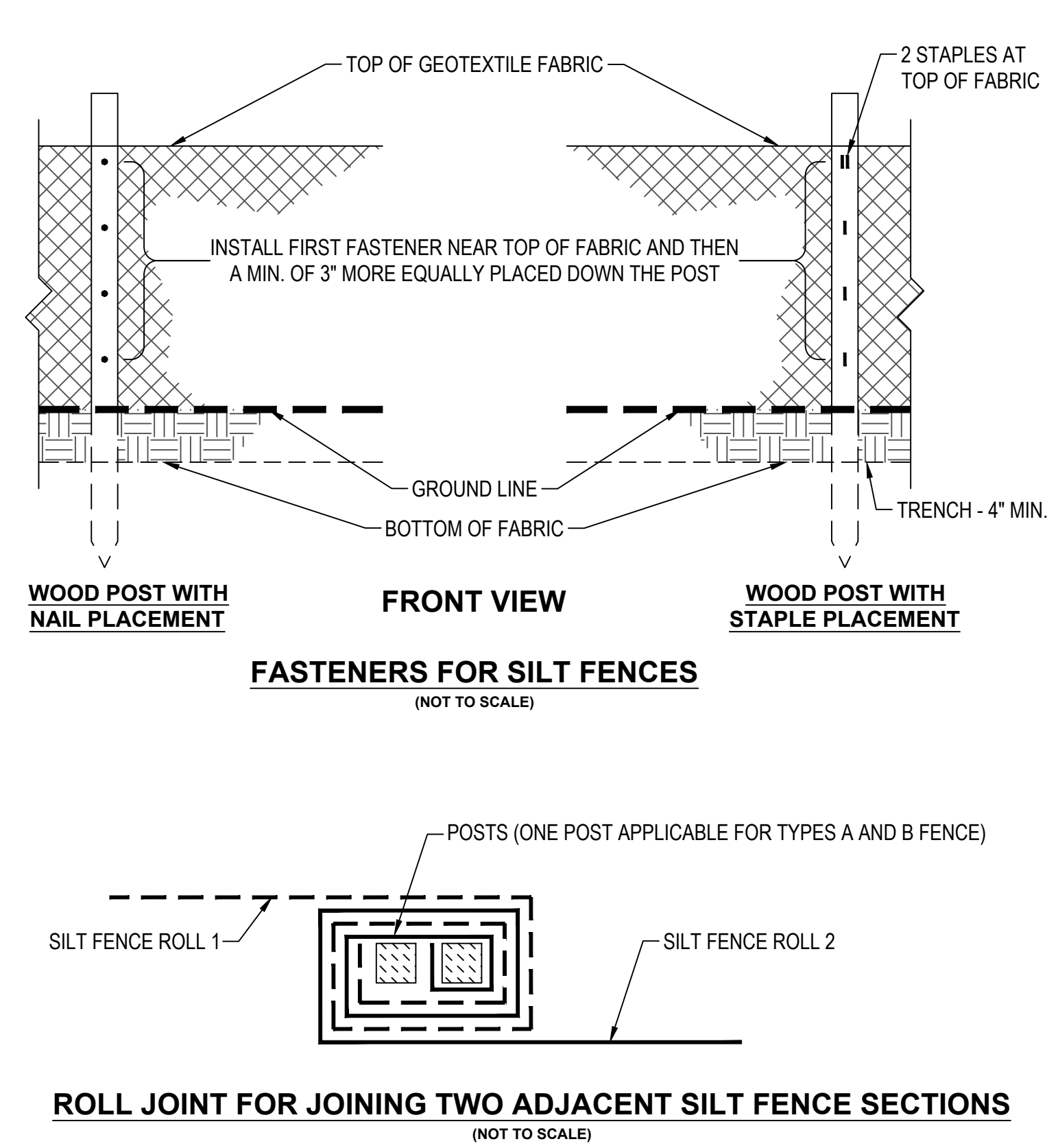
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REFER TO THE "MANUAL FOR EROSION AND SEDIMENT CONTROL IN MISSISSIPPI" FOR FURTHER DETAILS AND SPECIFICATIONS NOT SHOWN HERE.



Sr-C TEMPORARY CULVERT CROSSING

NOT TO SCALE



FASTENERS FOR SILT FENCES

NOT TO SCALE

REFER TO THE "MANUAL FOR EROSION AND SEDIMENT CONTROL IN MISSISSIPPI" FOR FURTHER DETAILS AND SPECIFICATIONS NOT SHOWN HERE.

Table Sr-C Corrugated Metal Pipe (CMP) Diameters For Temporary Culvert Crossings ¹				
Drainage Area (Acres)	Average Slope of Watershed			
	1%	4%	8%	16%
1-25	24	24	30	30
26-50	24	30	36	36
51-100	30	36	42	48
101-150	30	42	48	48
151-200	35	42	48	54
201-250	36	48	54	54
251-300	36	48	54	60
301-350	42	48	60	60
351-400	42	54	60	60
401-450	42	54	60	72
451-500	42	54	60	72
501-550	48	60	60	72
551-600	48	60	60	72
601-640	48	60	72	72

1. The invert elevation of the culvert shall be installed on the natural streambed grade.
 2. The culvert(s) shall extend a minimum of one foot beyond the upstream and downstream toe of the aggregate placed around the culvert. In no case shall the culvert exceed 40 feet in length.
 3. The culvert(s) shall be covered with a minimum of one foot of aggregate. If multiple culverts are used, they shall be separated by a minimum of 12 inches of compacted aggregate fill.
- MAINTENANCE**
The structure shall be inspected after every rainfall and at least once a week, whether it has rained or not, and all damages repaired immediately. The structure shall be removed immediately after construction is finished,

Table SB-1 Specifications for Silt Fence			
Specifications	Type A	Type B	Type C
Tensile Strength (Lbs. Min.) ¹ (ASTM D-4632)	Warp - 260 Fill - 100	Warp - 120 Fill - 100	Warp - 120 Fill - 100
Elongation (% Max.) (ASTM D-4632)	40	40	40
AOS (Apparent Opening Size) (Max. Sieve Size) (ASTM D-4751)	No. 30	No. 30	No. 30
Flow Rate (Gal/Min/Sq. Ft.) (GDT-87)	70	25	25
Ultraviolet Stability ² (ASTM D-4632 after 300 hours weathering in accordance with ASTM D-4355)	80	80	80
Bursting Strength (PSI Min.) (ASTM D-3786 Diaphragm Bursting Strength Tester)	175	175	175
Minimum Fabric Width (Inches)	36	36	22

Table SB-2 Slope Limitations for Silt Fence	
Land Slope (Percent)	Maximum Slope Length Above Fence (Feet)
< 2	100
2 to 5	75
5 to 10	50
10 to 20*	25
> 20	15

Table SB-3 Post Size for Silt Fence			
	Minimum Length	Type of Post	Size of Post
Type A	4'	Steel	1.3 lb./ft. min.
Type B	4'	Soft Wood Oak Steel	3" diameter or 2 X 4 1.5" X 1.5" 1.3 lb./ft. min.
Type C	3'	Soft Wood Oak Steel	2" diameter or 2 X 2 1"X 1" 0.75 lb./ft. min.

Table SB-4 Wood Post Fasteners for Silt Fence				
	Gauge	Crown	Legs	Staples/Post
Wire Staples	17 min.	3/4" wide	1/2" long	5 min.
	Gauge	Length	Button Heads	Nail/Post
Nails	17 min.	1"	3/4" Long	4 min.

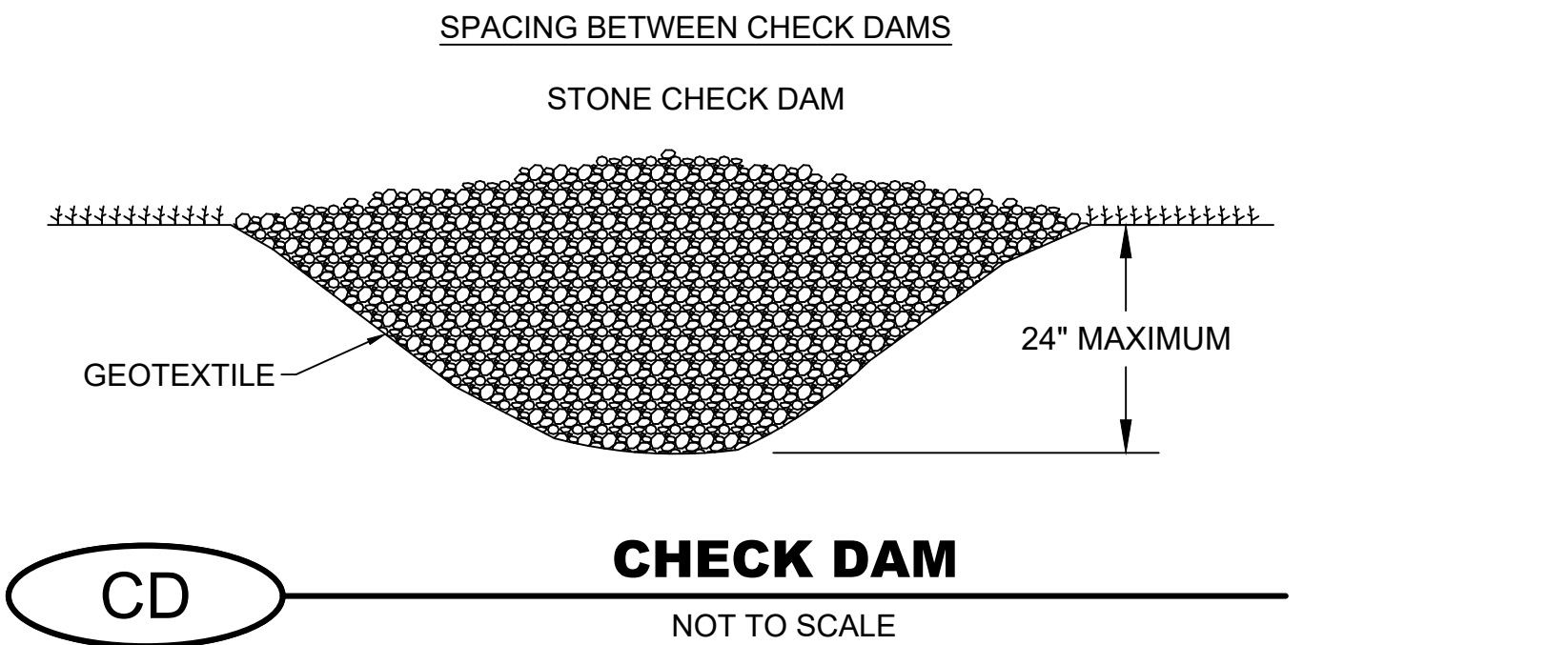
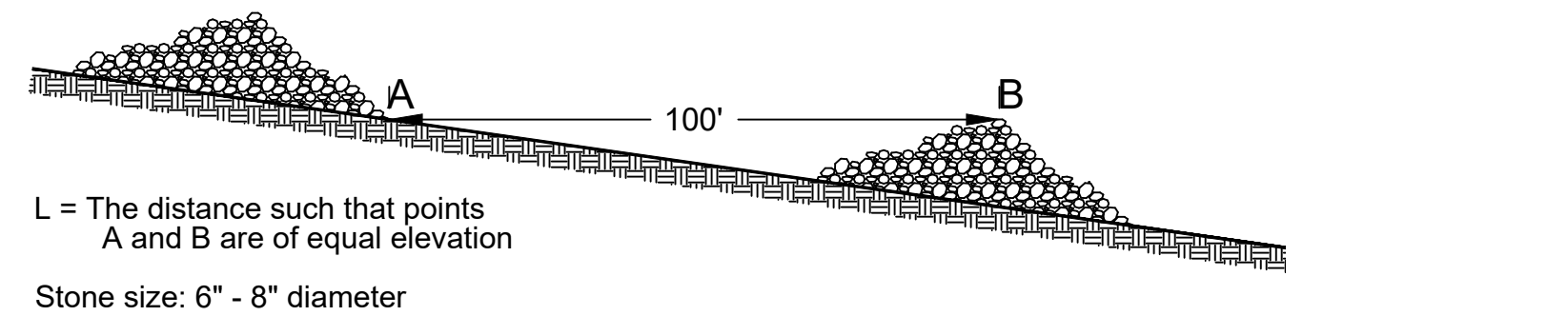


Table CD-1 Requirements for Nonwoven Geotextile					
Property	Test method	Class I	Class II	Class III	Class IV 1
Tensile strength (lb) ²	ASTM D 4632 grab test	180 minimum	120 minimum	90 minimum	115 minimum
Elongation at failure (%) ²	ASTM D 4632	≥ 50	≥ 50	≥ 50	≥ 50
Puncture (pounds)	ASTM D 4833	80 minimum	60 minimum	40 minimum	40 minimum
Ultraviolet light (% residual tensile strength)	ASTM D 4355 150-hr exposure	70 minimum	70 minimum	70 minimum	70 minimum
Apparent opening size (AOS)	ASTM D 4751	As specified max. no.40 ³	As specified max. no.40 ³	As specified max. no.40 ³	As specified max. no.40 ³
Permittivity sec ⁻¹	ASTM D 4491	0.70 minimum	0.70 minimum	0.70 minimum	0.10 minimum

¹ Heat-bonded or resin-bonded geotextile may be used for Classes III and IV. They are particularly well suited to Class IV. Needle-punched geotextile is required for all other classes.
² Minimum average roll value (weakest principal direction).
³ U.S. standard sieve size.

CD-1 SURFACE STABILIZATION - PERMANENT SEEDING

NOT TO SCALE

RAMBOLL

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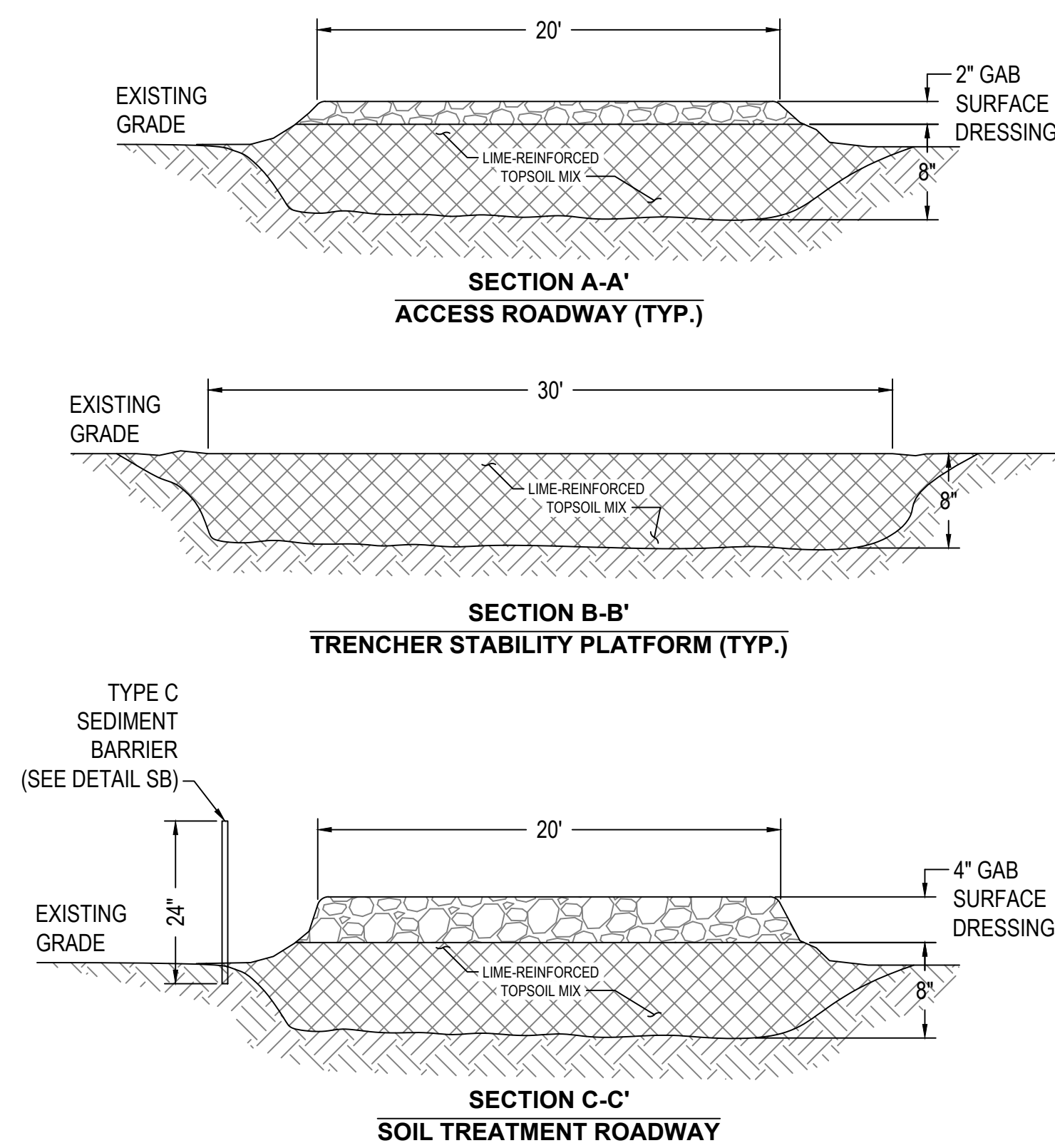
CRUPP IN-SITU SOIL MIXING REMEDIATION PROJECT SOIL EROSION AND SEDIMENT CONTROL DETAILS

CRUPP, MISSISSIPPI

SHEET

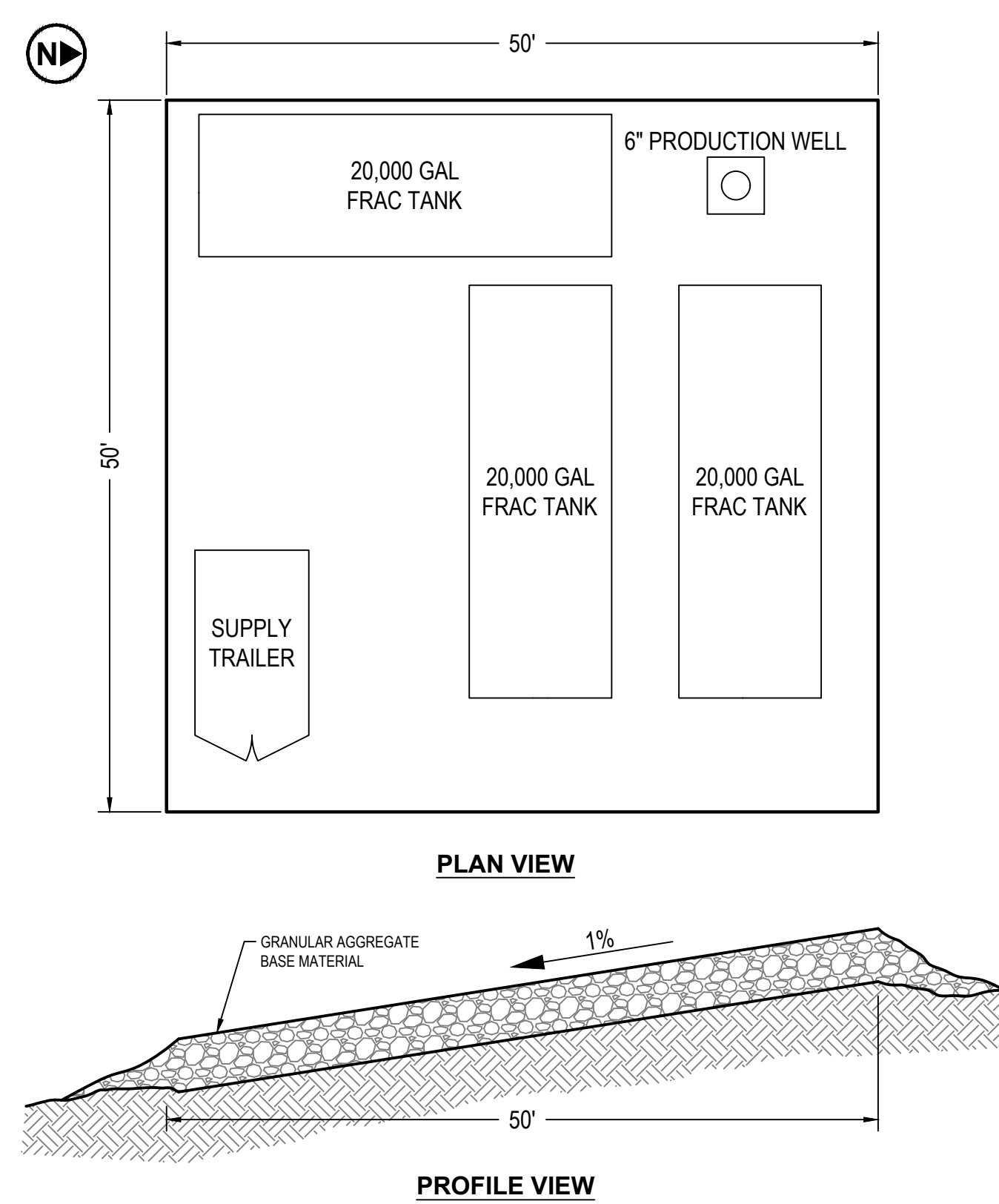
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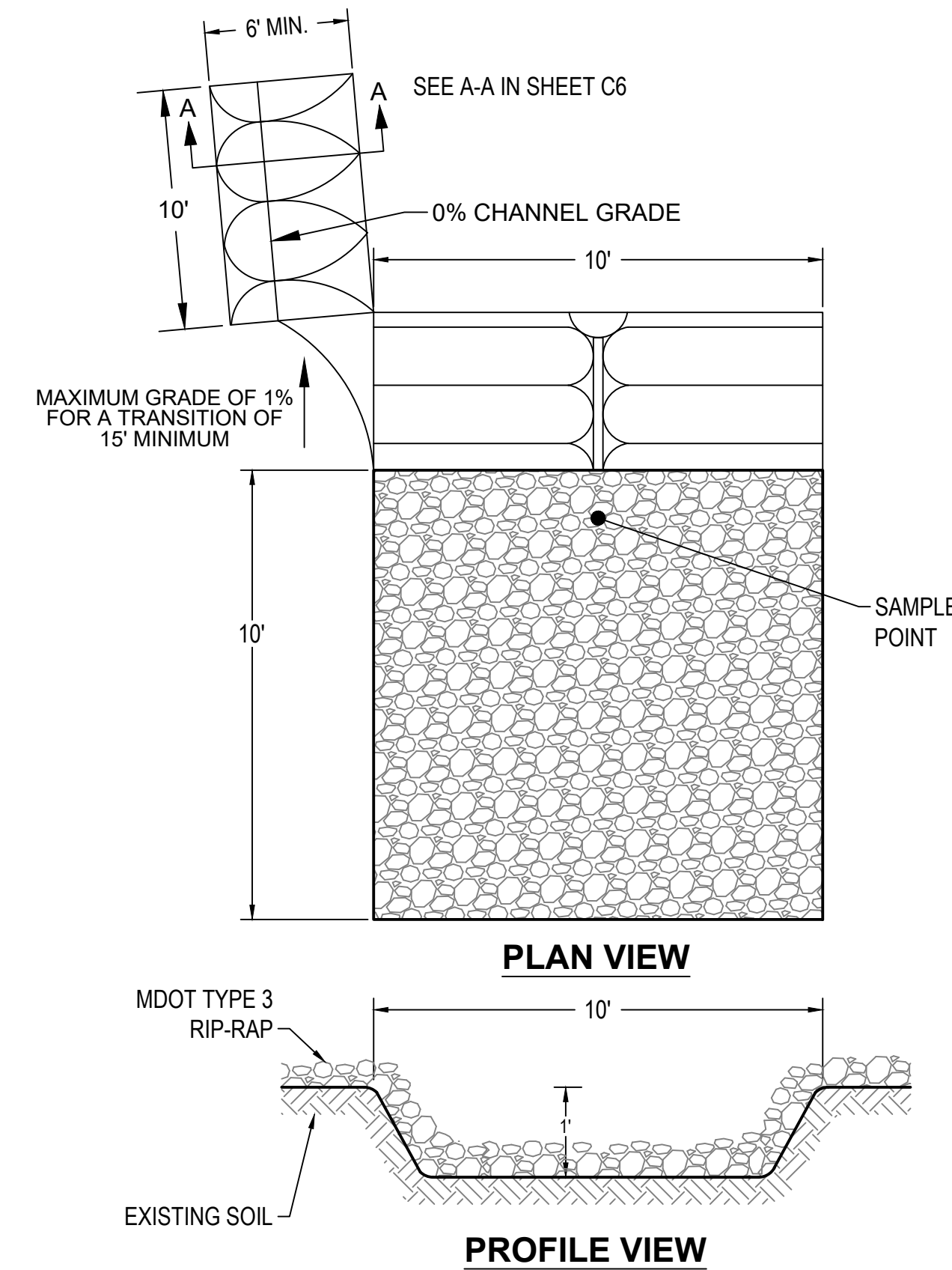
CROSS SECTION DETAILS

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PRODUCTION WELL PAD

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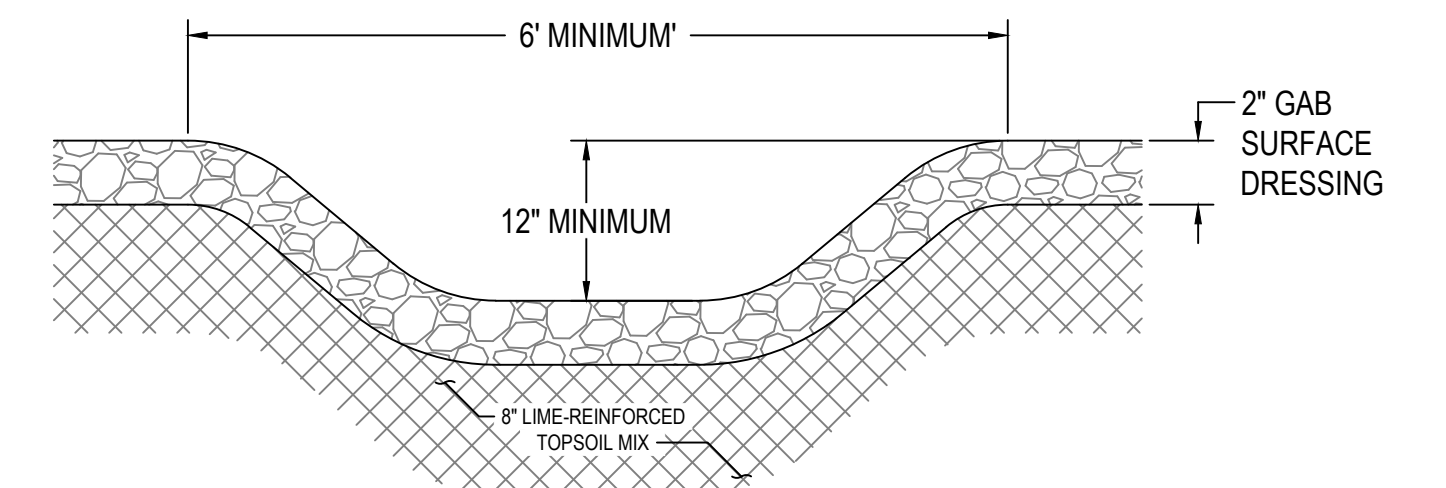


STORMWATER SAMPLE LOCATION

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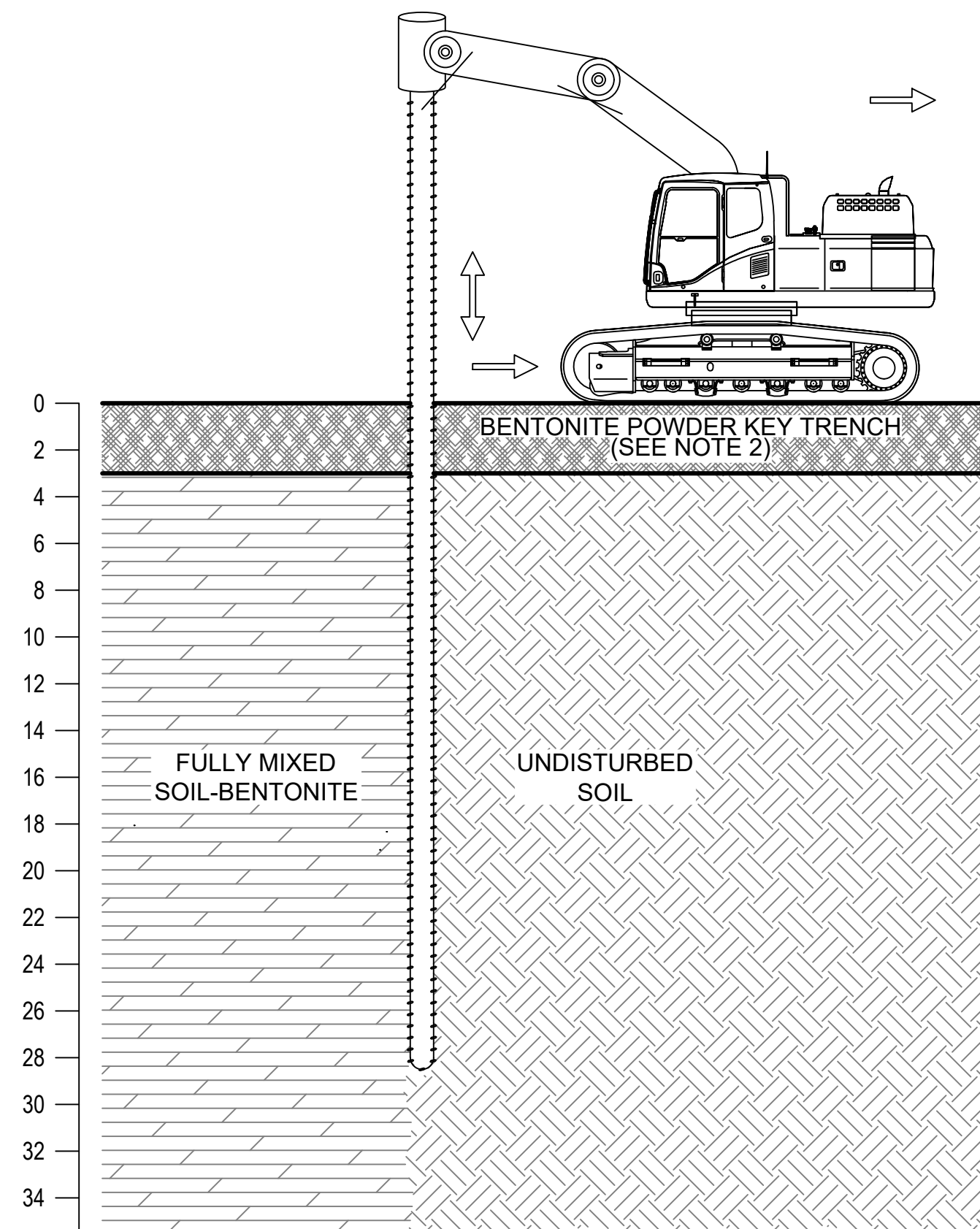
NOTES:

- APPROXIMATELY 75,000 SQUARE FEET OF 40 MIL GEOMEMBRANE LINER WILL BE PLACED ON THE NEWLY GRADED SURFACE BENEATH THE CONTAMINATED SOIL PILES TO PREVENT CONTAMINATION TO THE SURFACE SOIL. THE LINER SPECIFICATION WILL BE SOLMAX HDPE SERIES 40 MILS BLACK, TEXTURED GEOMEMBRANE OR AN APPROVED EQUIVALENT. THE LINER WILL BE PLACED ON THE WESTERNMOST SIDE OF THE SOIL TREATMENT AREA. INDIVIDUAL ROLLS WILL BE UNFURLED IN THE WEST TO EAST DIRECTION AND OVERLAPPED A MINIMUM OF TWO FEET THUS NEGATING THE NECESSITY FOR WELDING THE MATERIAL TOGETHER.
- A 3% BENTONITE POWDER MIXTURE WILL BE PLACED IN THE KEY TRENCH PRIOR TO TRENCHING FOR SOIL MIXING PURPOSES.
- A 4-FOOT WIDE GEOTEXTILE FABRIC MATERIAL WILL BE PLACED INSIDE THE TRENCH AND ALONG THE ENTIRE LENGTH FOR THE GATE AND TRIBUTARY TRENCHES TO PREVENT FINES FROM ENTERING THE SUBGRADE TRENCH MATERIAL. THE FABRIC SPECIFIED WILL BE A TENCATE MIRAFI 140 NL, NONWOVEN GEOTEXTILE OR AN APPROVED EQUAL.
- CURVE TRIBUTARY TRENCH ST1 AT CG1 TO AVOID THE UTILITY POLE AND GUY WIRES.



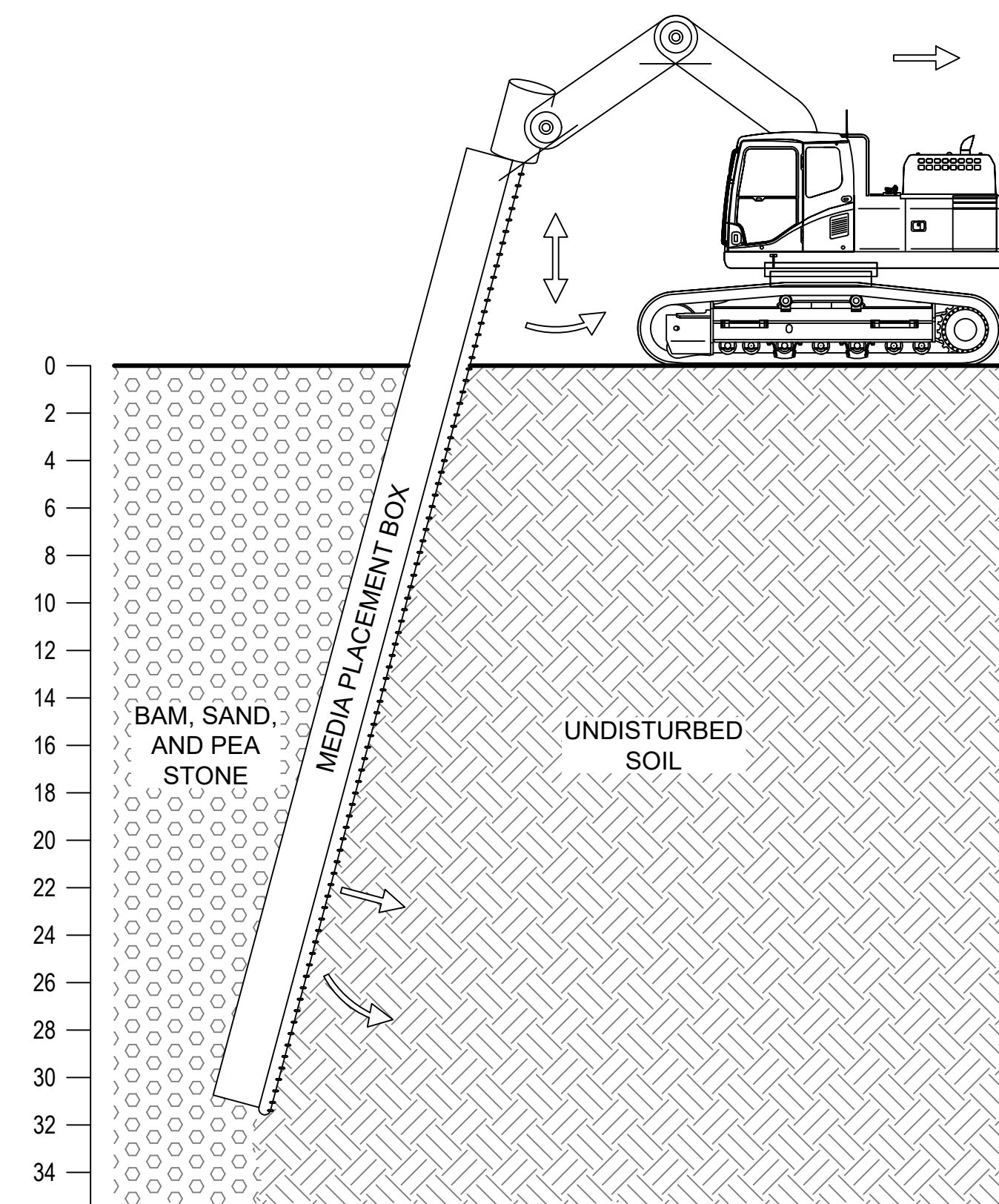
CONVEYANCE SWALE

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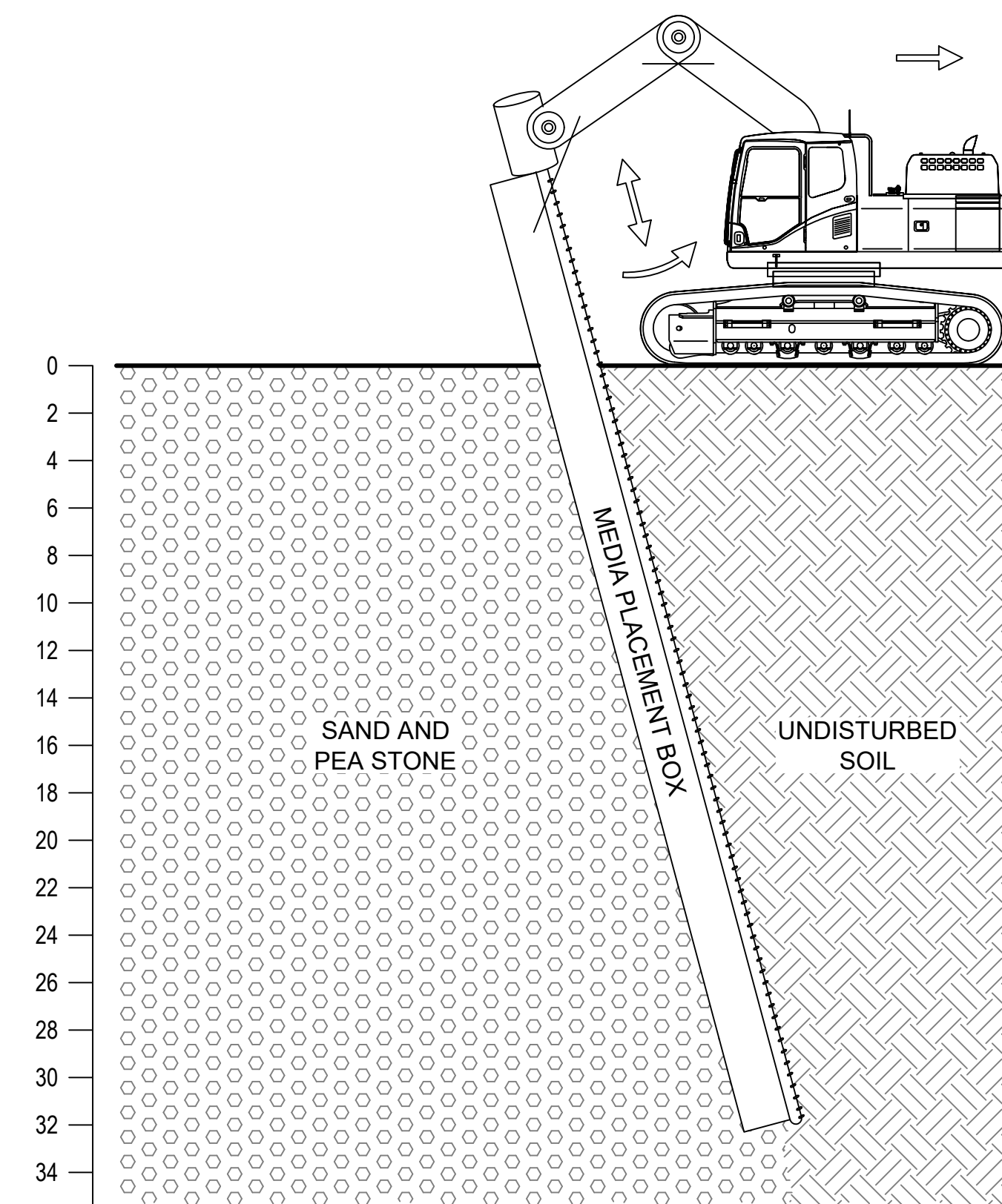
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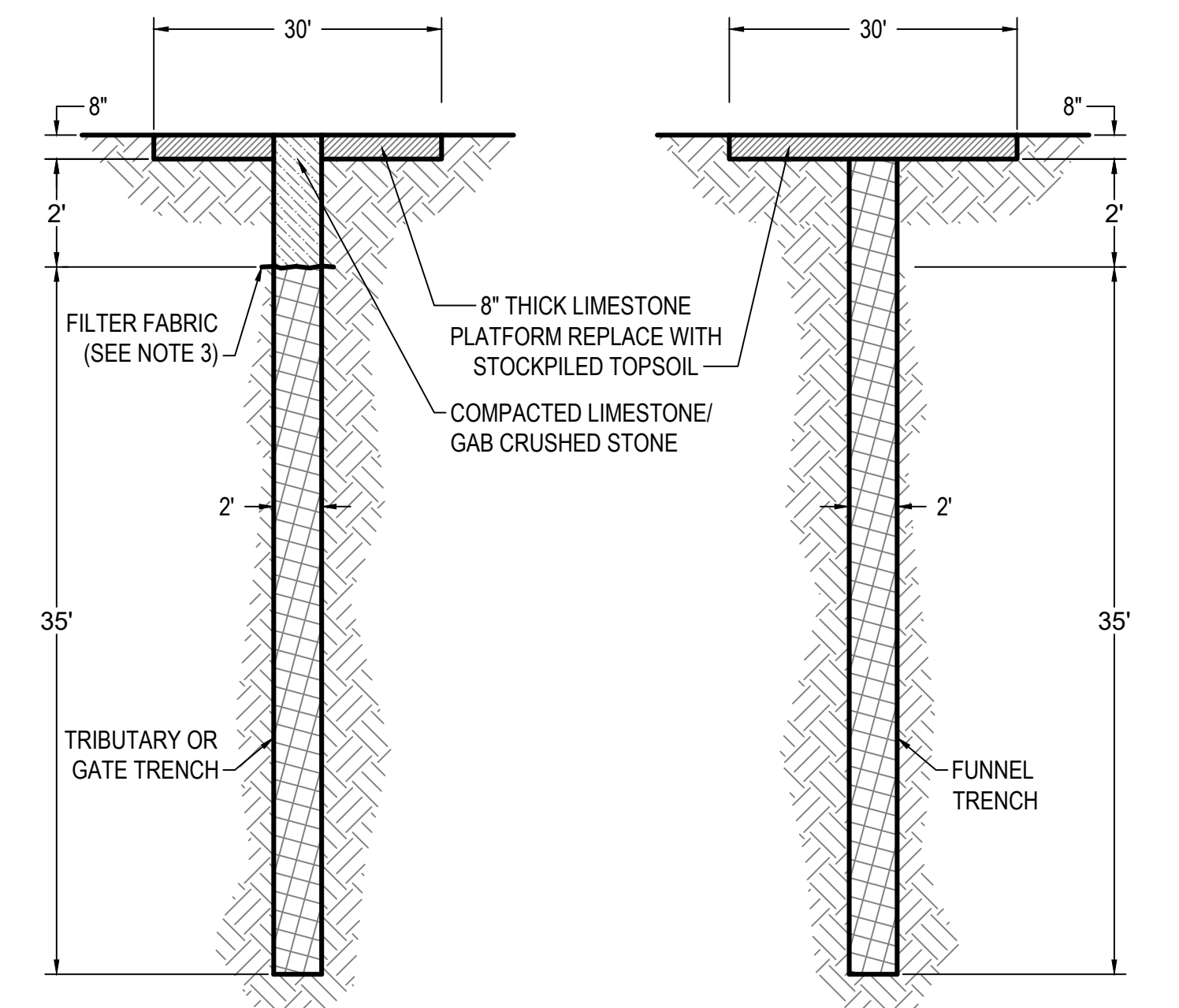
GATE TRENCH

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TRIBUTARY TRENCH

NOT TO SCALE



DETAIL 8A

DETAIL 8B

FINAL TRENCH COVER

NOT TO SCALE



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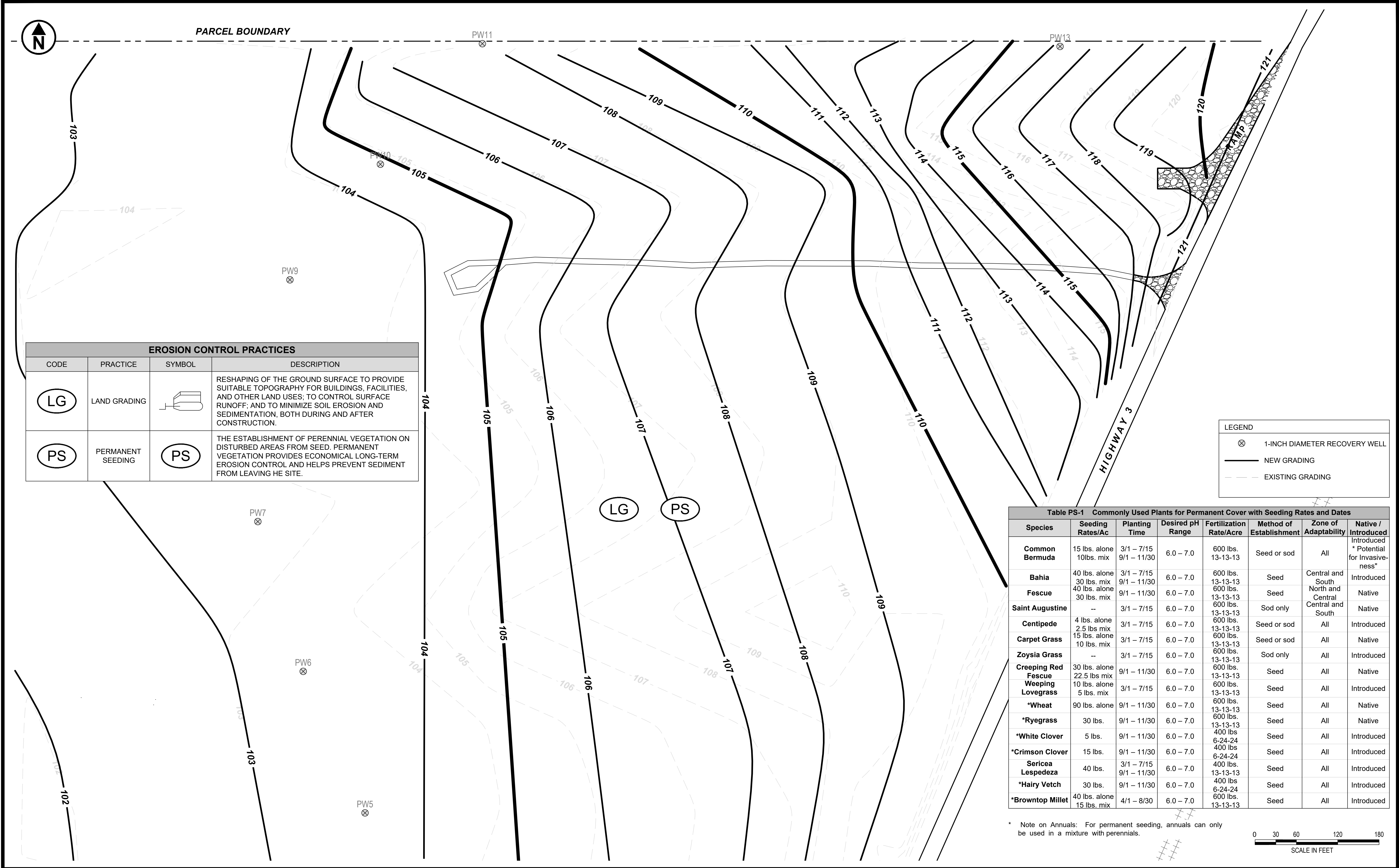
CRUPP IN-SITU SOIL MIXING REMEDIATION PROJECT CONSTRUCTION DETAILS

CRUPP, MISSISSIPPI

SHEET

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EROSION CONTROL PRACTICES			
CODE	PRACTICE	SYMBOL	DESCRIPTION
LG	LAND GRADING		RESHAPING OF THE GROUND SURFACE TO PROVIDE SUITABLE TOPOGRAPHY FOR BUILDINGS, FACILITIES, AND OTHER LAND USES; TO CONTROL SURFACE RUNOFF; AND TO MINIMIZE SOIL EROSION AND SEDIMENTATION, BOTH DURING AND AFTER CONSTRUCTION.
PS	PERMANENT SEEDING	PS	THE ESTABLISHMENT OF PERENNIAL VEGETATION ON DISTURBED AREAS FROM SEED. PERMANENT VEGETATION PROVIDES ECONOMICAL LONG-TERM EROSION CONTROL AND HELPS PREVENT SEDIMENT FROM LEAVING HE SITE.

LEGEND	
	1-INCH DIAMETER RECOVERY WELL
	NEW GRADING
	EXISTING GRADING

Table PS-1 Commonly Used Plants for Permanent Cover with Seeding Rates and Dates							
Species	Seeding Rates/Ac	Planting Time	Desired pH Range	Fertilization Rate/Acre	Method of Establishment	Zone of Adaptability	Native / Introduced
Common Bermuda	15 lbs. alone 10lbs. mix	3/1 – 7/15 9/1 – 11/30	6.0 – 7.0	600 lbs. 13-13-13	Seed or sod	All	Introduced * Potential for Invasiveness"
Bahia	40 lbs. alone 30 lbs. mix	3/1 – 7/15 9/1 – 11/30	6.0 – 7.0	600 lbs. 13-13-13	Seed	Central and South	Introduced
Fescue	40 lbs. alone 30 lbs. mix	9/1 – 11/30	6.0 – 7.0	600 lbs. 13-13-13	Seed	North and Central	Native
Saint Augustine	--	3/1 – 7/15	6.0 – 7.0	600 lbs. 13-13-13	Sod only	Central and South	Native
Centipede	4 lbs. alone 2.5 lbs mix	3/1 – 7/15	6.0 – 7.0	600 lbs. 13-13-13	Seed or sod	All	Introduced
Carpet Grass	15 lbs. alone 10 lbs. mix	3/1 – 7/15	6.0 – 7.0	600 lbs. 13-13-13	Seed or sod	All	Native
Zoysia Grass	--	3/1 – 7/15	6.0 – 7.0	600 lbs. 13-13-13	Sod only	All	Introduced
Creeping Red Fescue	30 lbs. alone 22.5 lbs mix	9/1 – 11/30	6.0 – 7.0	600 lbs. 13-13-13	Seed	All	Native
Weeping Lovegrass	10 lbs. alone 5 lbs. mix	3/1 – 7/15	6.0 – 7.0	600 lbs. 13-13-13	Seed	All	Introduced
*Wheat	90 lbs. alone	9/1 – 11/30	6.0 – 7.0	600 lbs. 13-13-13	Seed	All	Native
*Ryegrass	30 lbs.	9/1 – 11/30	6.0 – 7.0	600 lbs. 13-13-13	Seed	All	Native
*White Clover	5 lbs.	9/1 – 11/30	6.0 – 7.0	400 lbs 6-24-24	Seed	All	Introduced
*Crimson Clover	15 lbs.	9/1 – 11/30	6.0 – 7.0	400 lbs 6-24-24	Seed	All	Introduced
Sericea Lespedeza	40 lbs.	3/1 – 7/15 9/1 – 11/30	6.0 – 7.0	400 lbs. 13-13-13	Seed	All	Introduced
*Hairy Vetch	30 lbs.	9/1 – 11/30	6.0 – 7.0	400 lbs 6-24-24	Seed	All	Introduced
*Browntop Millet	40 lbs. alone 15 lbs. mix	4/1 – 8/30	6.0 – 7.0	600 lbs. 13-13-13	Seed	All	Introduced

* Note on Annuals: For permanent seeding, annuals can only be used in a mixture with perennials.



REVISIONS			
NO.	DESCRIPTION	BY	DATE

DRAWING INFO.	
PROJECT #:	1690021854 (201)
DESIGNED:	KAC/JJ
APPROVED:	KAC
DRAFTER:	CKL
DATE:	5/21/2021

PROFESSIONAL ENGINEER CERTIFICATION

KEITH ALAN COLE
MISSISSIPPI PROFESSIONAL ENGINEER #16986

CRUPP IN-SITU SOIL MIXING REMEDIATION PROJECT
ES&PC PLAN – FINAL GRADING FOR POST-CONSTRUCTION

CRUPP, MISSISSIPPI

SHEET

C8