

Capital Projects & Purchasing Department 113 Mable T. Willis Blvd. Walterboro, SC 29488 843.539.1968

BID: CTC-13 2018 Dirt Road Paving Durango Lane, Dakota Circle, and Angler Lane

BID DUE: Tuesday, December 11, 2018 @ 11:00am

MAIL RESPONSE TO:

Capital Projects & Purchasing Department Attn: Kaye B Syfrett 113 Mable T. Willis Blvd. Walterboro, SC 29488

DELIVER RESPONSE TO:

Capital Projects & Purchasing Department Attn: Kaye B Syfrett 113 Mable T. Willis Blvd. Walterboro, SC 29488

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A. OVERVIEW

Colleton County, South Carolina (the "County") requests bids from qualified licensed contractors for the paving of approximately 1.5 miles of County maintained dirt roads. Roadways in this project include Durango Lane, Dakota Circle, and Angler Lane near Cottageville, SC.

Subject to the terms, conditions, provisions, and the enclosed specifications, responses to this solicitation will be received at this office until the stated date and time. Responses received after the scheduled due date and time will be rejected. Bids must be submitted in a sealed package marked on the outside with the Contractor's name, address, and the solicitation name and number.

This solicitation does not commit Colleton County to award a contract, to pay any costs incurred in the preparation of bids submitted, or to procure or contract for the services. The County reserves the right to accept or reject or cancel in part, or in its entirety offers received because of this request if deemed to be in the best interest of the County to do so.

Questions regarding this solicitation must be submitted via emailed to Carla Harvey, County Engineer at charvey@colletoncounty.org no later than **12:00PM on Tuesday, December 4, 2018**. Answers to all questions will be posted on the County website as addendums to this bid.

B. SCOPE OF WORK

The project includes earthwork, grading, aggregate base, asphalt surface course, and drainage appurtenances to improve three existing unpaved roads. The roadways total approximately 1.5 miles in length and are located near Cottageville, SC. The project is comprised of Durango Lane, Dakota Circle, and Angler Lane. Utilities may be present along roads. It will be the responsibility of the contractor for coordination with the local utility providers and for making the necessary adjustments. All road work is to be performed within the existing Right-of-Way of the road.

This contract is a unit price contract. Quantities provided are estimates only.

C. INSTRUCTIONS TO CONTRACTOR

- Submittal must include one (1) original bid response clearly marked as original, and three (3) complete
 copies of the Contractor's bid along with a completed W-9 form. Responses must be in a sealed
 envelope/package marked on the outside with the Contractor's name, address, and the solicitation
 name and number.
- 2. The individual signing the response must be an Agent legally authorized to bind the company.
- 3. Show solicitation number on the outside of mailing package. Colleton County assumes no responsibility for unmarked or improperly marked envelopes.
- 4. It is the Contractor's sole responsibility to ensure that solicitation responses, amendments thereto or withdrawal requests are submitted by the scheduled due date and time.

- 5. The Contractor must clearly mark as "Confidential" each part of their response, which they consider to be proprietary information that could be exempt from disclosure under Section 30-40(C) Code of Laws of South Carolina, 1976, Freedom of Information Act. Colleton County reserves the right to determine whether this information should be exempt from disclosure and legal action may not be brought against the County or its agents for its determination in this regard.
- 6. The Contractor shall complete and submit all forms listed in the **Bid Forms** of the table of contents. All responses shall be printed in ink or typewritten. Bids written in pencil will be disqualified.
- 7. Each Contractor shall submit with his/her Bid a Bid Bond with a good and sufficient surety or sureties company licensed in South Carolina, in the amount of five percent (5%) of the total Bid amount. The Bid bond penalty may be expressed in terms of a percentage of the Bid price or may be expressed in dollars and cents.
- 8. The successful contractor shall pay the cost and furnish within ten (10) days after written notice of acceptance of Bid, an irrevocable Surety in the form of a Performance and Payment Bond, Certificate of Deposit, Cashier's Check or irrevocable letter of credit. Performance Bond shall include a one-year warranty of workmanship and materials and shall commence upon completion and acceptance of the total contract by Colleton County. The Surety shall be issued in the amount of 100% of the total contract covering the entire term of the contract as awarded. The cost of performance bond is to be included in the unit prices listed on the bid form.

A "No Response" qualifies as a response; however, it is the responsibility of the Contractor to notify the Procurement Office if you receive solicitations that do not apply.

D. SELECTION CRITERIA

It is the intent of Colleton County to award one contract to the lowest responsive, responsible bidder based on the estimated quantities on the Bid Form. The County reserves the right to accept or reject all bids if deemed to be in the best interest of the County to do so.

E. SPECIFIC TERMS AND CONDITIONS

- 1. COMPETITION: This solicitation is intended to promote full and open competition. If any language, specifications, terms and conditions, or any combination thereof restricts or limits the requirements in this solicitation to a single source, it shall be the responsibility of the interested Contractor to notify the Procurement Office in writing no later than five (5) business days prior to the scheduled due date and time.
- 2. RESPONDANTS QUALIFICATION: The County reserves the right to request satisfactory evidence of their ability to furnish services in accordance with the terms and conditions listed herein. The County further reserves the right to make the final determination as to the Contractor's ability to provide said services.
- 3. RESPONSE WITHDRAWAL: Any responses may be withdrawn prior to the established closing date and time, but not thereafter with proper approval from the Procurement Manager.

- 4. REJECTION: Colleton County reserves the right to reject any and all bids, to cancel or withdraw this solicitation, and to waive any technicality if deemed to be in the best interest of the County.
- 5. WAIVER: The County reserves the right to waive any Instruction to Contractors, General or Special Provisions, General or Special Conditions, or specifications deviation if deemed to be in the best interest of the County.
- 6. RESPONSE PERIOD: All responses shall be good for a minimum period of 60 calendar days.
- 7. DEVIATIONS FROM SPECIFICATIONS: Any deviation from specifications indicated herein must be clearly pointed out; otherwise, it will be considered that items offered are in strict compliance with these specifications, and successful Contractor will be held responsible therefore. Deviations must be explained in detail on separate attached sheet(s). The listing of deviations, if any, is required but will not be construed as waiving any requirements of the specifications. Unidentified deviations found during the evaluation of the response may be cause for rejection.
- 8. AMENDMENTS: All amendments to and interpretations of this solicitation shall be in writing and issued by the Procurement Manager of Colleton County.
- 9. DEBARMENT: By submitting a qualification package, the Contractor is certifying that they are not currently debarred from responding to any request for bids by any agency or subdivision of the State of South Carolina or the United States Federal Government, nor are they an agent of any person or entity that is currently debarred from submitting bids on contracts by any agency or subdivision of the State of South Carolina.
- 10. DEFAULT: In case of default by the Contractor, the County reserves the right to purchase any or all items in default in the open market, charging the Contractor with any excessive costs. Should such charge be assessed, no subsequent solicitation response of the defaulting Contractor will be considered in future bids until the assessed charge has been satisfied.
- 11. HOLD HARMLESS: All respondents to this bid shall indemnify and hold harmless Colleton County Government and any of their officers and employees from all suits and claims alleged to be a result of this request for bids. The issuance of this request of bids constitutes only an invitation to present a bid. Colleton County reserves the right to determine, at its sole discretion, whether any aspect of a respondent's submittal meets the criteria in this request for proposals. Colleton County also reserves the right to seek clarifications, to negotiate with any Contractor submitting a response, to reject any or all responses with or without cause, and to modify the procurement process and schedule.
- 12. CANCELLATION: In the event that this request for bids is withdrawn or the project canceled for any reason, Colleton County shall have no liability to any respondent for any costs or expenses incurred in connection with this request for bids or otherwise.
- 13. COLLETON COUNTY PURCHASING ORDINANCE: The Request of Bids is subject to the provisions of the Colleton County Purchasing Ordinance and any revisions thereto, which are hereby incorporated into this request for bids in their entirety except as amended or superseded within. This ordinance can be found at https://www.municode.com/library/sc/colletoncounty/codes/codeofordinances under Title 3 Revenue and Finance.
- 14. FAILURE TO SUBMIT ALL MANDATORY FORMS: Failure to submit all the mandatory forms from this request of bids shall be just cause for the rejection of the qualification package. However, Colleton County

reserves the right to decide, on a case by case basis, in its sole discretion, whether or not to reject such a bid as non-responsive.

15. CONTRACT AWARD:

- a. This solicitation and submitted documents, when properly accepted by Colleton County shall constitute an agreement equally binding between the successful Contractor and the County.
 - No oral statement of any person shall modify or otherwise change, or affect the terms, conditions or specifications stated in the resulting agreement. The County shall not be legally bound by any amendment or interpretation that is not fully executed by both parties in writing.
- b. The successful Contractor shall be required to execute a formal agreement with the County's Procurement Office within ten (10) business days after issuance of the Notice of Award.
- 16. CONTRACT ADMINISTRATION: Questions or problems arising after award of an agreement shall be directed to the Procurement Manager by calling (843) 539-1968. Copies of all correspondence concerning this solicitation or resulting agreement shall be sent to the Procurement Office, 113 Mable T. Willis Blvd, Walterboro, SC 29488.

F. GENERAL CONTRACTUAL REQUIREMENTS

- ABANDONMENT OR DELAY: If the work to be done under this contract shall be abandoned or delayed by the Contractor, or if at any time the County shall be of the opinion and shall so certify in writing that work has been abandoned or delayed by the Contractor, the County may annul the contract or any part thereof if the Contractor fails to resolve the matter within thirty (30) days of written notice.
- 2. CONTRACTOR'S COOPERATION: The Contractor shall maintain regular communications with the Project Manager and shall actively cooperate in all matters pertaining to this contract.
- 3. RESPONSIBILITY: The Contractor shall always observe and comply with all federal, state, local and municipal laws, ordinances, rules and regulations in any manner affecting the contract.
- 4. NON-APPROPRIATION / SUBSTITUTION PERMITTED: If the Colleton County Council fails to appropriate or authorize the expenditure of sufficient funds to provide the continuation of this contract or if a lawful order issued in, or for any fiscal year during the term of the agreement, reduces the funds appropriated or authorized in such amounts as to preclude making the payments set out therein, the agreement shall terminate on the date said funds are no longer available without any termination charges or other liability incurring to County. Following any such non-appropriation, the master lease agreement shall contain no limitation on the County's ability to replace the equipment financed with any other equipment.
- 5. INDEMNIFICATION: Except for expenses or liabilities arising from the negligence of the County, the Contractor hereby expressly agrees to indemnify and hold the County harmless against any and all expenses and liabilities arising out of the performance or default of any resulting agreement or arising from or related to the Work as follows:

Contractor expressly agrees to the extent that there is a causal relationship between its negligence, action or inaction, or the negligence, action or inaction of any of its employees or any person, Contractor, or corporation directly or indirectly employed by the Contractor, and any damage, liability, injury, loss or

expense (whether in connection with bodily injury or death or property damage or loss) that is suffered by the County and its employees or by any member of the public, to indemnify and save the County and its employees harmless against any and all liabilities, penalties, demands, claims, lawsuits, losses, damages, costs, and expenses arising out of the performance or default of any resulting agreement or arising from or related to the equipment. Such costs are to include defense, settlement and reasonable attorneys' fees incurred by the County and its employees. This promise to indemnify shall include bodily injuries or death occurring to Contractor's employees and any person, directly or indirectly employed by Contractor (including without limitation any employee of any subcontractor), the County's employees, the employees of any other independent contractor, or occurring to any member of the public. When the County submits notice, Contractor shall promptly defend any aforementioned action.

- 6. The prescribed limits of insurance set forth herein shall not limit the extent of the Contractor's responsibility under this Section. The terms and conditions contained in this Section shall survive the termination of any resulting agreement or the suspension of the Work hereunder. Additionally, the County will not provide indemnity to the successful CONTRACTOR. Failure to comply with this section may result in your request for bid to be deemed non-responsive.
- 7. FORCE MAJEURE: The Contractor shall not be liable for any excess costs if the failure to perform the resulting agreement arises out of causes beyond the control and without fault or negligence of the Contractor. Such causes may include, but are not restricted to acts of God or of the public enemy, acts of the Government in either its sovereign or contractual capacity, fires, floods, epidemics, quarantine restrictions, strikes, freight embargoes, and unusually severe weather; but in every case the failure to perform must be beyond the control and without the fault or negligence of the contractor. If the failure to perform is caused by default of a subcontractor, and if such default arises out of causes beyond the control of both the Contractor and subcontractor and without excess costs for failure to perform, unless the supplies or services to be furnished by the subcontractor were obtainable from other sources in sufficient time to permit the contractor to meet the required delivery schedule.
- 8. ARBITRATION: Under no circumstances and with no exception will Colleton County act as arbitrator between the Contractor and any sub-contractor.
- 9. PUBLICITY RELEASES: Contractor agrees not to refer to award of this contract in commercial advertising in such a manner as to state or imply that the products or services provided are endorsed or preferred by the County. The Contractor shall not have the right to include the County's name in its published list of customers without prior approval of the County Administrator. With regards to news releases, only the name of the County, type and duration of any resulting agreement may be used and then only with prior approval of the County. The Contractor also agrees not to publish, or cite in any form, any comments or quotes from the County's staff unless it is a direct quote from the Procurement Manager.
- 10. GOVERNING LAWS: Any agreement arising from this solicitation shall be governed by the laws of the State of South Carolina and all disputes arising out of said agreement shall, if litigation is necessary, be litigated only in a Circuit Court for the Fourteenth Judicial Circuit sitting in Colleton County, South Carolina. The prevailing party shall be entitled to attorney's fees and all costs of said litigation.
- 11. ASSIGNMENT: The Contractor shall not assign in whole or in part any agreement resulting from this Request for Bids without the prior written consent of the County. The Contractor shall not assign any money due or to become due to him under said agreement without the prior written consent of the County.

- 12. AFFIRMATIVE ACTION: The successful Contractor will take affirmative action in complying with all Federal and State requirements concerning fair employment and treatment of all employees, without regard or discrimination by reason of race, color, religion, sex, national origin or physical handicap.
- 13. FAILURE TO DELIVER GOODS IN ACCORDANCE WITH TERMS & CONDITIONS: In case of failure to deliver goods in accordance with the contract terms and conditions, Colleton County, after due oral or written notice, may procure substitute goods or services from other sources and hold the contractor responsible for any resulting additional purchasing and administrative costs. This remedy shall be in addition to any other remedies which Colleton County may have.
- 14. TERMINATION OF CONTRACT: Subject to the Provisions below, the contract may be terminated by the Purchasing Department providing a thirty (30) days advance notice in writing is given to the Contractor.
 - a. Termination for Convenience: In the event that this contract is terminated or canceled upon request and for the convenience of the County without the required thirty (30) days advance written notice, then the County shall negotiate reasonable termination costs, if applicable.
 - b. Termination for Cause: Termination by the County for cause, default or negligence on the part of the Contractor shall be excluded from the foregoing provisions; termination costs, if any, shall not apply. The thirty (30) days advance notice requirement is waived and the default provision in this request for bids shall apply.
 - c. The County shall be obligated to reimburse the Contractor only for those services rendered prior to the date of notice of termination, less any liquidation damages that may be assessed for nonperformance.

Non-Appropriations Clause: Not withstanding any other provisions of the contract, if the funds anticipated for the continued fulfillment of this contract are at any time. Not forthcoming, through the failure of the County Government to appropriate funds, discontinuance or material alteration of the program under which funds were provided, the County shall have the right to terminate the contract without penalty by giving not less than thirty (30) days written notice documenting the lack of funding. Unless otherwise agreed to by the County and the Contractor, the contract shall become null and void on the last day of the fiscal year for which appropriations were received.

- 15. GOVERNING LAWS: Any contract resulting from this request for bids shall be governed in all respects by the laws of the State of South Carolina and any litigation with respect thereto shall be brought in the courts of the State of South Carolina.
- 16. BONDS: Payment and Performance Bonds are required for this request for bids.
- 17. OWNERSHIP OF MATERIAL: Ownership of all data, material, and documentation originated and prepared for the County pursuant to this contract shall belong exclusively to the County.
- 18. INSURANCE: Colleton County will require the following remain in force at all times through the life of the contract:

Professional Liability Insurance – Minimum \$1,000,000.00 - Proof of in force insurance must be provided in the response to the RFB

Other insurances:

Workers' Compensation - \$100,000 – each accident Statutory Coverage and Employer's - \$100,000 each employee Liability - \$500,000 – policy limit Comprehensive General Liability -\$2,000,000 – bodily injury each occurrence

\$2,000,000 – bodily injury aggregate

\$2,000,000 – property damage each occurrence

\$2,000,000 – property damage aggregate

Products – Completed Operations - \$1,000,000 – aggregate

Business Auto Liability – Same as Comprehensive General Liability

Excess or Umbrella Liability - \$2,000,000

G. SPECIAL PROVISIONS & SPECIFICATIONS

This project is to be constructed under the South Carolina Department of Transportation's Specifications for Highway Construction Edition of 2007, the South Carolina Department of Transportation's 2004 Construction Manual, and the Supplemental Technical Specifications in effect at the time of the letting, and the following Special Provisions.

DEFINITION AND TERMS

The project Owner is COLLETON COUNTY. In the specifications where the terms "SCDOT" or "Department" or other like terms are used to describe the facility Owner, it shall be interpreted as meaning Colleton County, as appropriate.

Add "Notice-to-Proceed" to Section 101 as follows:

Notice-to-Proceed. A written notice to the Contractor fixing the date on which the Contract Time will commence to run and on which the Contractor may start to perform obligations under the Contract Documents.

It is the intentions of the owner to have the Contractor begin work on this project as soon as practical. The owner anticipates that an award and contract will be issued within two weeks after bids are received. The owner will require that the completed contract, bonds, insurance and other information required by the contract shall be completed within two weeks after bids are received.

ERRATA TO 2007 STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION

See attached Supplemental Specification dated May 4, 2009.

SUBSTANTIAL COMPLETION OF WORK

Section 101.3.76 is hereby replaced with the following:

101.3.76 Substantial Completion of Work

Substantial Completion of Work is the point in the project when work has been constructed to the typical section in the Plans over the entire length of the project including tie-ins, all pay items have been installed in reasonable conformance with the plans and specifications over the entire length of the project and all lanes of traffic are open to the public in their final configuration with the only remaining work to be performed being punch list items.

Substantial Completion for this project must be within 180 days of NTP.

STANDARD DRAWINGS

The Bidders are hereby advised that this project shall be constructed using the latest Standard Drawings with all updates effective at the time of the letting. The Standard Drawings are available for download at

http://www.scdot.org/doing/sd_disclaimer.shtml. All drawings that are updated are labeled with their effective letting date in red.

The Standard Drawings are available to purchase through the SCDOT Engineering Publications Sales Center. The Engineering Publication Sales Center is in Room G-19 (basement level) of the SCDOT Headquarters Building, 955 Park Street, Columbia, South Carolina.

All references in the plans, standard specifications, supplemental specifications, supplemental technical specifications or special provisions to drawings under the previous numbering system are hereby updated to the new drawing numbers. Refer to sheets 000-205-01 through 000-205-07 to find new drawing numbers when looking for references to older drawing numbers.

All references to Resident Construction Engineer (RCE) should be replaced with County Engineer or assigned engineering agent.

CONSTRUCTION STAKES, LINES AND GRADES

Stakes, Lines, and Grades shall be provided by the Contractor as necessary.

QUALIFIED PRODUCT LISTINGS

All references to "Approval Sheet" or "Approval Policy" are to be replaced with "Qualified Products Listings (QPL)" and "Qualified Products Policies (QPP)" respectively. This change includes all references in the SCDOT Standard Drawings, SCDOT Standard Specifications, SCDOT Supplemental Specifications, SCDOT Special Provisions, SCDOT Supplemental Technical Specifications, SCDOT Internet and Intranet websites, and all other documents produced by SCDOT.

SOUTH CAROLINA MINING ACT

See Attached Supplemental Specification Dated March 20, 2003.

This Supplemental Specification is hereby modified as follows:

Paragraph 9 is hereby deleted and replaced with the following:

The deputy secretary for engineering, or his duly appointed representative, will make a final inspection of the reclaimed area and keep a permanent record of his approval thereof. A map or sketch providing the location and approximate acreage of each pit used on the project will be provided to the engineer for inclusion in the final plans.

The last paragraph is hereby deleted and replaced with the following:

The contractor shall comply with the provisions of the plan that are applicable to the project as determined by the engineer. Seeding or other work necessary to comply with the plan on pits furnished by the contractor shall be at the expense of the contractor. Seeding shall be in accordance with SC-M-810 (latest version) which can be found at http://scdot.org/doing/sup_tech_specs.shtml.

DBE PARTICIPATION

The contractor should be following the State Set-Aside Law (South Carolina Code Section 12-28-2930:

- A minimum of five (5%) percent of this contract is set-aside for qualified and certified Disadvantaged Business Enterprises (DBE's); AND
- A minimum of five (5%) percent of this contract is set-aside for qualified and certified Woman Business Enterprises (WBE's).

Listings of certified DBE/WBE Contractors can be found on the SCDOT website at Doing Business with SCDOT Contractor-Consultant/Pregualified Contractors

(http://www.scdot.org/doing/prequalified.shtml) or Doing Business with SCDOT, Office of Business Development and Special Programs/DBE Directory (http://www.scdot.org/doing/dbelisting.shtml). Contractors with DBE and WBE shown adjacent to the company name are prequalified with SCDOT.

The prime Contractor shall provide documentation and certification of DBE and WBE contract amounts including proof of final payment. DBE's and WBE's shall be indicated on the DBE Subcontractors Form provided.

If no certified DBE or WBE Contractors are available, the contractor shall verify and document this fact. Documentation shall include but is not limited to: written records of efforts made to contact and/or negotiate prices with available DBE's or WBE's.

FAIR LABOR STANDARDS ACT OF 1938, AS AMENDED

Attention is directed to this Federal Legislation, which has been enacted into law. The contractor will be responsible for carrying out all of the provisions of this legislation, which may affect this contract.

SOUTH CAROLINA DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL PERMITS

A copy of the permits will be made available from the design and permitting engineer. The Contractor shall comply with all provisions and requirements of the permits.

Failure to adequately comply with the provisions of these permits or any other requirements from these permitting agencies will result in the stoppage of all contract operations until corrective actions have been taken.

Fines assessed by these agencies to the Department as the result of the Contractor's non-compliance or violation of said permit provisions will be paid by the Department and subsequently deducted from the Contractor's monthly pay estimate.

SOUTH CAROLINA OFFICE OF COASTAL RESOURCE MANAGEMENT PERMITS

A copy of the permits will be made available from the design and permitting engineer. The Contractor shall comply with all provisions and requirements of the permits.

Failure to adequately comply with the provisions of these permits or any other requirements from these permitting agencies will result in the stoppage of all contract operations until corrective actions have been taken.

CONSTRUCTION QUALITY CONTROL AND ASSURANCE TESTING

The contractor shall provide construction quality control and quality assurance testing for this project, except for MANUFACTURERS MATERIALS CERTIFICATIONS AND CERTIFIED TEST REPORTS as required by the provision included below.

MANUFACTURERS MATERIALS CERTIFICATIONS AND CERTIFIED TEST REPORTS

The contractor shall supply the Engineer with all required materials certifications and manufacturers test reports for items to be permanently incorporated into the project, prior to their use. The County must approve these certifications and reports before payment can be made to the contractor for these items.

RETAINAGE

The County shall retain ten (10) percent of the amount of each payment until completion and acceptance of all work covered by the Contract Documents. Upon substantial completion of the work, any amount retained may be paid to the Contractor. When the Work has been substantially completed except for Work which cannot be completed because of weather conditions, lack of materials or other reasons which in the judgment of the County are valid reasons for non- completion, the County may make additional payments, retaining at all times an amount sufficient to cover the estimated cost of the Work still to be completed.

PAYMENT SCHEDULE

Partial Payments will be made no more than once each month as the work progresses. The monthly partial payment periods end at the end of the day on the last day of each month. Pay applications are to be submitted to the County Engineer for review and approval. Upon approval, the County Engineer submits the pay application to the County Finance Department for processing. Payment processing is performed on a weekly basis.

REQUIRED MEDIA NOTIFICATION FOR CONSTRUCTION PROJECTS

Contractors are encouraged to co-operate with the news media since all projects are constructed with public funds. Because the scope of this project will cause disruption of normal traffic flow, the Contractor is required to notify the public, in a timely manner, of disruptive activities such as lane closures.

The Contractor is required to utilize area media to accomplish public notification of traffic disruptions.

The Contractor is required to deal directly with the news media and all reasonable efforts should be made to co-operate with the media. However, the safety, security and construction schedule on site should not be disrupted in order to accomplish this. The Contractor may coordinate these activities with and receive guidance from the Engineer.

CONTRACT PROVISION TO REQUIRE CERTIFICATION AND COMPLIANCE CONCERNING ILLEGAL ALIENS

By submission of this bid, the bidder as the prime contractor does hereby agree:

- a. to certify its compliance with the requirements of Chapter 14 of Title 8 of the S.C. Code of Laws regarding Unauthorized Aliens and Public Employment;
- b. to provide SCDOT with any documents required to establish such compliance upon request; and
- c. to register and participate and require agreement from subcontractors and subcontractors to register and participate in the federal work authorization program to verify the employment authorization of all new employees, or to employ only workers who supply the documents required pursuant to S.C. Code 8-14-20(B)(2).

CONSTRUCTION SCHEDULE

The successful Contractor shall, prior to commencement of work, submit to the County a schedule showing the order in which he proposes to carry on the Work indicating the periods during which he will perform work on each roadway. The County reserves the right to determine priority of schedule items, but unless modified by the parties, in writing, the successful Bidder shall have sole Responsibility for following and coordinating its schedule.

PROSECUTION OF THE ROAD IMPROVEMENT WORK

It is the County's intentions that work on this contract be performed in a sequential manner. Once a construction activity has started on a road, the Contractor will continue this activity until it is complete before moving to another road. In the event the Contractor elects to use multiple crews on this project, work may proceed on more than one area. However, in no case will construction activities be initiated on more area than the number of work crews engaged in the work without the approval of the Engineer.

CONTRACT TIME AND DETERMINATION AND EXTENSION OF CONTRACT TIME

Any extensions of these completion dates will adhere to Section 108.6 of the Standard Specifications.

FAILURE TO COMPLETE THE WORK ON TIME

Delete Section 108.9 in its entirety and substitute the following in its place:

Owner and Contractor recognize that time is of the essence and that the Owner will suffer financial loss if the work is not substantially complete in accordance with the time(s) specified herein. They also recognize the delays, expenses and difficulties involved in proving in a legal or arbitration preceding the actual loss suffered by the Owner if the work is not completed on time.

Accordingly, instead of requiring such proof, the Owner and the Contractor agree that as liquidated damages for delay (but not as a penalty) the Contractor shall pay the Owner **\$500.00 per day** for each calendar day past the contract specified interim and final completion dates.

COORDINATION OF UTILITY RELOCATION WORK WITH HIGHWAY CONSTRUCTION

As it is not economically feasible to complete the rearrangement of all utility conflicts in advance of the highway construction, such rearrangements may be underway concurrently with construction.

It shall be the responsibility of the contractor to inspect the site for potential utility conflicts. It is the responsibility of the Contractor to call Palmetto Utility Protection Service (1-888-721-7877) three (3) days prior to work so that existing utilities can be properly marked.

ROADWAYS TO BE INCLUDED IN THIS PROJECT

Colleton County, due to budget considerations or any other reason, reserves the right to adjust the amount of work to be performed on this project. Projects (complete roads) may be added or deleted only at the discretion of the County. The Contractor shall, by signing this request for bids, agree to adjust, as indicated by the County, the lengths or quantities of roadways and corresponding pay items to be performed, at the times and locations determined to be beneficial to the County.

MAINTENANCE OF TRAFFIC

Roadways must be open to traffic at all times. Should a roadway require temporary closure, approval must be given by the County Engineer and all public safety agencies be notified in advance.

MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES

The Contractor is advised that all work involving design or installation of traffic control devices, including but not limited to signs, pavement markings, elements of work zone traffic control, signals, etc., shall be following the FHWA's Manual on Uniform Traffic Control Devices (MUTCD), latest edition. The latest edition is defined as the edition that the Traffic Engineering Division of SCDOT recognizes as having been officially adopted (Engineering Directive, Memorandum 19) at the time the project is let, unless stated otherwise in the Special Provisions.

A suggested permanent construction sign schedule has been included. It shall be the responsibility of the contractor to verify the correctness and mark the location of all signs.

TRAFFIC CONTROL

The Contractor shall execute the item of Traffic Control as required by the Standard Specifications, the plans, the Standard Drawings for Road Construction, these special provisions, all supplemental specifications, the MUTCD, and the Engineer. This is an amendment to the Standard Specifications to require the following:

LUMP SUM BID ITEMS

It is predetermined that all lump sum bid items shall be applied equally among all roads, unless otherwise stated. This will apply to pay estimates as well deletion or addition of a road should one be deleted or added.

HOT MIX ASPHALT

All driveways will be paved to the right of way line or to a distance needed to safely transition from the final riding surface to the existing paved driveway surface as approved by the County Engineer.

GRADED AGGREGATE BASE COURSE

Only one type of Graded Aggregate Base Course is to be selected. The Contractor is to indicate at the preconstruction conference to the County Engineer which type has been selected for use on this project. Gradation of selected base course is to meet the requirements set in the SCDOT Standard Specifications.

TESTING

The contractor will be responsible for all quality control and testing. Roller patterns, daily plant test reports, and other tests required by SCDOT will be required on HMA. Proof roll testing on subgrade and base course will be accepted in lieu of compaction testing.

ASPHALT BINDER ADJUSTMENT INDEX

For this project the Basic Bituminous Material Index will be determined on the first calendar day of the month in which this project is let. The index and adjustment table will be available on the internet at http://www.scdot.org/doing/constructionletting monthlyindex.aspx.

WARRANTY

The Contractor agrees to a two-year warranty against defects, failures etc. caused by materials and workmanship, beginning on the date of final acceptance of punch list.

H. SUPPLEMENTAL SPECIFICATIONS

ERRATA TO 2007 STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION (MAY 4, 2009)

Make the changes listed below to correct errata in the SDCOT 2007 Standard Specifications for Highway Construction:

DIVISION 100 GENERAL PROVISIONS

SECTION 101 DEFINITIONS AND TERMS

Subsection 101.2 Abbreviations and Acronyms

Amend the table of **SCDOT OFFICIALS AND OFFICES** as follows:

DELETIONS			REPLACEMENTS
BDE*	Bridge Design Engineer	PSE*	Preconstruction Support Engineer
BDGE*	Bridge Design Geotechnical Engineer	GDSE*	Geotechnical Design Support Engineer
SHE*	State Highway Engineer	DSE*	Deputy Secretary for Engineering

^{*}Wherever it appears in the text, replace the deleted abbreviation with the new abbreviation.

SECTION 102 BIDDING REQUIREMENTS AND CONDITIONS

Subsection 102.8 Irregular Bids

Paragraph 2, item E, first sentence; delete the word "the" after the word "When".

SECTION 105 CONTROL OF WORK

Subsection 105.6 Cooperation with Utilities

Paragraph 1, last sentence; change the word "THE" to "the".

DIVISION 200 EARTHWORKS

SECTION 202 REMOVAL OF STRUCTURES AND OBSTRUCTIONS

Subsection 202.5 Measurement

Paragraph 5, second bullet; change the words "Brick sidewalk" to "Concrete, brick or stone sidewalks".

SECTION 204 STRUCTURE EXCAVATION

Subsection 204.2.1.2 Structure Excavation for Culverts

Paragraph 1, at the end of the first sentence; change "Subsection 204.4" to "Subsection 204.5".

DIVISION 400 ASPHALT PAVEMENTS

SECTION 401 HOT MIXED ASPHALT (HMA) PAVEMENT

Subsection 401.2.1.2 Liquid Anti-Stripping Agent

Paragraph 1, first sentence; delete the period at the end of the sentence and add "and SC-M-406.".

Subsection 401.2.5 Material for Full Depth Patching

Paragraph 1, delete and replace with the following:

"Use an approved SCDOT Intermediate Type C mix for all Full Depth Patching."

Subsection 401.5 Measurement

After paragraph 10, add the following paragraph:

11 The measurement of Prime Coat is the number of gallons of asphalt material applied to the completed and accepted base course.

Subsection 401.6 Payment

After paragraph 12, add the following paragraph:

13 "The payment for Prime Coat is at the contract unit price for Prime Coat and includes compensation for all labor, equipment, tools, maintenance, and incidentals necessary to complete that work."

Subsection 401.6 Payment

Paragraph 13, Table of Pay Items

Change paragraph reference number "13" to "14" and add the following Pay Item:

Item No.	Pay Item	Unit
4010005	Prime Coat	GAL

SECTION 403 HMA SURFACE COURSE

Subsection 403.5 Measurement

Paragraph 1, first sentence; change "HMA Intermediate Course" to "HMA Surface Course".

Subsection 403.6 Payment

Paragraph 1, first sentence; change "HMA Intermediate Course" to "HMA Surface Course".

SECTION 407 ASPHALT SURFACE TREATMENT – DOUBLE TREATMENT

Subsection 407.5 Measurement

Paragraph 1, first sentence; add the word "is" after "(Double Treatment Type (1, 2, 3, 4, or 5))".

SECTION 408 ASPHALT SURFACE TREATMENT – TRIPLE TREATMENT

Subsection 408.5 Measurement

Paragraph 1, first sentence; add the word "is" after "(Triple Treatment Type (1 or 2))".

DIVISION 600 MAINTENANCE AND TRAFFIC CONTROL

SECTION 625 PERMANENT PAVEMENT MARKINGS FAST DRY WATERBOURNE PAINT

Subsection 625.2.2.4.11 Lead Content

Paragraph 1, first sentence; change 6% to 0.06%.

SECTION 627 THERMOPLASTIC PAVEMENT MARKINGS

Subsection 627.4.10 Inspection and Acceptance of Work

Paragraph 2, first sentence; change "period of 90 days" to "period of 180 days".

Subsection 627.4.10 Inspection and Acceptance of Work

Paragraph 2, second sentence; change "90-day observation period" to "180-day observation period".

Subsection 627.4.10 Inspection and Acceptance of Work

Paragraph 3, first sentence; change "90-day period" to "180-day period".

DIVISION 700 STRUCTURES

SECTION 709 STRUCTURAL STEEL

Subsection 709.4.3.5.2 Submittals and Notification

Paragraph 1 delete the last two sentences and replace them with, "The County's review and acceptance are required before any field welding will be permitted."

Subsection 709.6.3 Pay Items (page 650)

Subsection heading number; change subsection heading number from "709.6.3" to "709.6.4".

SECTION 712 DRILLED SHAFTS AND DRILLED PILE FOUNDATIONS

Subsection 712.4.4 Dry Construction Method

Paragraph 2, last sentence in A; change "Drilled Shaft Report" to "Drilled Shaft Log".

Subsection 712.4.10.4 Excavation Cleanliness

Paragraph 1, last sentence; change "Drilled Shaft Report" to "Drilled Shaft Log".

Subsection 712.4.10.6 Shaft Load Test

Change first paragraph reference number from "2" to "1".

Subsection 712.6.10 Drilled Pile Set-Up

Insert paragraph reference number "1" to the left of the first paragraph.

SECTION 723 DECK JOINT STRIP SEAL

Subsection 723.1 Description

Insert paragraph reference number "3" to the left of the third paragraph.

SECTION 726 BRIDGE DECK REHABILITATION

Subsection 726.4.1 General

Insert paragraph reference number "1" to the left of the first paragraph.

Subsection 723.4.6 Full Depth Patching (page 790)

Subsection heading number; change subsection heading number from "723.4.6" to "726.4.6"

SECTION 727 CROSSHOLE SONIC LOGGING OF DRILLED SHAFT FOUNDATIONS

Subsection 726.6 Payment (page 807)

Subsection heading number; change subsection heading number from "726.6" to "727.6"

DIVISION 800 INCIDENTAL CONSTRUCTION

SECTION 805 GUARDRAIL

Subsection 805.5 Measurement

Paragraph 4; amend as follows:

"The quantity for the pay item 8053000 Additional Length Guardrail Post is the length of required post installed in excess of the standard-length post based on the system being installed, measured by the linear foot (LF), complete, and accepted."

SECTION 815 EROSION CONTROL

Subsection 815.1 Description

Paragraph 1, first sentence; change "temporary flexible pipe" to "temporary pipe".

Subsection 815.5 Measurement

Paragraph 13; delete the first sentence and replace it with the following sentence:

"The quantity for Temporary Pipe Slope Drains is measured and paid for in accordance with **Subsections 803.5** and **803.6** respectively."

Subsection 815.5 Measurement

Delete paragraph 19.

Subsection 815.6 Payment

After paragraph 15, add the following paragraph:

16 Payment for Removal of Silt Retained by Silt Fence is full compensation for removing and disposing of sediment deposits accumulated by silt fences as specified or directed and includes

all materials, labor, equipment, tools, supplies, transportation, and incidentals necessary to fulfill the requirements of the pay item in accordance with the Plans, the Specifications, and other terms of the Contract.

Subsection 815.6 Payment

Change original paragraph number "16" to "17".

Subsection 815.6 Payment

Pay Item table; change the Unit for Item No. 8156214 to "EA".

INDEX:

Amend as follows:

Page I-3, after "Bridge Deck Rehabilitation, measurement and payment:"

Delete page 807.

Page I-12, after "Letting:"

Replace page 19 with page 9.

Page I-13, after "Overhead Sign Structure:"

Replace page 488 with page 495.

Page I-15, after "Proof Rolling:"

Delete page 98.

Page I-18, after "Structural Steel, turned and ribbed bolts:"

Replace page 624 with page 625.

Page I-19, after "Waterproofing, bridge deck:"

Delete page 907.

Page I-20, after "Working Drawings:"

Replace page 543 with page 779

THE SOUTH CAROLINA MINING ACT (MARCH 20, 2003)

The South Carolina Mining Act enacted by the General Assembly in 1973 requires that the County adopt reclamation standards to govern activities of the County and any person acting under contract with the County, on highway rights-of-way or material pits maintained solely in connection with the construction, repair and maintenance of the public road systems in South Carolina.

STANDARD PLAN FOR THE RECLAMATION OF EXCAVATED AREAS ADOPTED BY THE South Carolina DEPARTMENT OF TRANSPORTATION

Reclamation plans as stated herein shall include all areas disturbed in excavations of borrow and material pits, except planned inundated areas.

The final side slopes of areas excavated for borrow and material pits shall be left at such an angle so as to minimize erosion and the possibility of slides. The minimum slope in every case shall be not less than 3:1.

Small pools of water should not be allowed that are, or are likely to become noxious, odious, or foul to collect or remain on the borrow pit. Suitable drainage ditches, conduits, or surface gradient shall be constructed to avoid collection of noxious, odious, or foul pools of water unless the borrow pit is to be reclaimed into a lake or pond.

Borrow pits reclaimed to a lake or pond must have an adequate supply of water to maintain a water sufficient level to maintain a minimum water depth of four (4) feet on at least fifty (50) percent of the surface area of the lake or pond.

Excavated areas will be drained where feasible unless otherwise requested by the property owner where, in such instances, the property owner may wish to develop the excavated area for recreational purposes or for the raising of fish, or for other uses, in compliance with the South Carolina Mining Act.

Where material is stripped from the ground surface in relatively thin layers, the area, after excavation has been completed, will be thoroughly scarified and terraced and planted to establish satisfactory vegetation necessary to control erosion. Vegetative cover should be established on a continuing basis to ensure soil stability appropriate to the area. Conservation practices essential for controlling both on-site and off-site erosion and siltation must be established. A minimum of seventy-five (75) percent vegetative ground cover, with no substantial bare spots, must be established and maintained into the second growing season.

Excavated areas that are drained will be seeded to obtain a satisfactory vegetative cover. The side slopes of excavated area will be planted to vegetation.

The State Highway Engineer, or his duly appointed representative, will make a final inspection of the reclaimed area and keep a permanent record of his approval thereof. A map or sketch providing the location and approximate acreage of each pit used on the project will be made available to the Final Plans Engineer.

All applicable regulations of agencies and statutes relating to the prevention and abatement of pollution shall be complied with by the contractor in the performance of the contract.

The Contractor shall comply with the provisions of the Plan which are applicable to the project as determined by the Engineer. Seeding or other work necessary to comply with the plan on pits furnished by the contractor shall be at the expense of the contractor. Bermuda shall not be planted on ground surface pit areas. The quantity of fescue seed specified in Subsection 810.04 of the Standard Specifications shall be increased to fifteen (15) pounds in lieu of the deleted Bermuda seed.

I. BID FORMS



Bid: CTC-13 2018 Dirt Road Paving

Contractor	Date
Signature	Title

				UNIT	
ITEM#	DESCRIPTION	UNIT	QUANTITY	PRICE	TOTAL PRICE
1031000	Mobilization	LS	1		
1050800	Construction Stakes, Lines, & Grades	LS	1		
1071000	Traffic Control	LS	1		
2011000	Clearing & Grubbing within Right of Way	LS	1		
2031000	Unclassified Excavation	CY	3242		
2033000	Borrow Excavation	CY	1900		
2034000	Muck Excavation	CY	772		
2081001	Fine Grading	SY	20384		
3050108	Graded Aggregate Base Course (8" Uniform)	SY	18623		
3069900	Maintenance Stone	TON	100		
4030340	Hot Mix Asphalt Surface Course – Type C*	TON	1858		
6051120	Permanent Construction Signs (Ground Mounted)	SF	24		
6271025	24" White Solid Lines (Stop/Diag Lines) Thermoplastic-125 mil	LF	36		
6510105	Flat Sheet, Type III, Fixed Size & Message Sign	SF	34.25		
6510106	Flat Sheet, Type III, Size Determined by Message	SF	27.21		
6531210	U-Section Post for Sign Supports – 3P	LF	67.56		
6531500	Reflective Sign Post Panels	LF	10		
7141142	19"x30" Horizontal Elliptical RC Pipe – Class HE-III	LF	64		
7141111	12" RC Pipe Culvert – Class III	LF	24		
7141112	15" RC Pipe Culvert – Class III	LF	608		
7141113	18" RC Pipe Culvert – Class III	LF	224		
7141114	24" RC Pipe Culvert – Class III	LF	176		
7141116	36" RC Pipe Culvert – Class III	LF	120		
8041020	Rip-Rap Class B	TON	114		
8048205	Geotextile/Erosion Control (Class 2) – Type B	SY	146		
8081000	Moving Item 1	LS	1		
8081000	Moving Item 2	LS	1		
8100101	Permanent Grassing	MSY	19.02		
8100200	Temporary Grassing	MSY	9.51		
8151110	Temp. Erosion Control Blanket – Class B	SY	4.22		
8152007	Sediment Tube	LF	281		
8153000	Silt Fence	LF	2378		
8154050	Removal of Silt Retained by Silt Fence	LF	585		
8156100	Ditch Check	TON	60		
	* Liquid asphalt binder is to be included with hot mix asphalt pay items.				

GRAND TOTAL

REFERENCE FORM

(Please use this form or similar copy)

Bidder shall include a list of three references for similar work with bid response. References shall include project name, brief description and location of project, completed dollar amount of project, date completed, contact person's name, phone, fax number, and email address of a similar job completed

1.) [Name of Project Owner:					
	Brief Description Including Location					
-						
_						
(Completed Dollar Amount: \$	Date Completed:				
(Contact Phone: ()	Contact Fax: ()				
(Contact E-mail:					
2.) [Name of Project Owner:					
-						
-						
(Completed Dollar Amount: \$	Date Completed:				
(Contact Phone: ()	Contact Fax: ()				
(Contact E-mail:					
3.) 1	Name of Project Owner:					
É	Brief Description Including Location					
-						
-						
(Completed Dollar Amount: \$	Date Completed:				
(· ·					
(Contact Phone: ()	Contact Fax: ()				
(Contact E-mail:					
4.) [Name of Project Owner:					
Ĺ	Brief Description Including Location					
_	·					
-						
(Completed Dollar Amount: \$	Date Completed:				
	Contact Person's Name:					
(Contact Phone: ()	Contact Fax: ()				
	Contact F-mail:					

SUBCONTRACTOR FORM

Subcontractor Name: _____ Address: Description of Work to be Performed: Dollar Value of Subcontractor's Work: \$ Percentage of Contract Value: Subcontractor Name: ____ Address: Description of Work to be Performed: Dollar Value of Subcontractor's Work: \$ Percentage of Contract Value: Subcontractor Name: ___ Address: Description of Work to be Performed: Dollar Value of Subcontractor's Work: \$______ Percentage of Contract Value: _____ Subcontractor Name: _____ Address: Description of Work to be Performed: _____ Dollar Value of Subcontractor's Work: \$ Percentage of Contract Value: Subcontractor Name: _____ Description of Work to be Performed: Dollar Value of Subcontractor's Work: \$______ Percentage of Contract Value: _____ Subcontractor Name: ______ Address: __ Description of Work to be Performed: Dollar Value of Subcontractor's Work: \$______ Percentage of Contract Value: ___

SUBCONTRACTOR FORM

DBE SUBCONTRACTOR FORM

DBE SUBC	UNIRACIOR FORM
DBE Subcontractor Name:	
Address:	
Description of Work to be Performed:	
Dollar Value of Subcontractor's Work: \$	Percentage of Contract Value:
Subcontractor Name:	
Description of Work to be Performed:	
	Percentage of Contract Value:
Address:	
Dollar Value of Subcontractor's Work: \$	Percentage of Contract Value:
Subcontractor Name:	
A 1.1	
Description of Work to be Performed:	
Dollar Value of Subcontractor's Work: \$	Percentage of Contract Value:
Total Dollar Value of Contract:	\$
Total Dollar Value of DBE Subcontract Work:	\$
DBE Percent of Contract Value:	
The Contractor hereby committs to subcontract portion or approved substitue DBE subcontractors.	s of the work to DBE subcontractors as indicated above
	DATE:
SIGNED:	TITLE:



Bid: CTC-13 2018 Dirt Road Paving ADDENDA ACKNOWLEDGMENT

The Contractor has examined and carefully studied the Request for Bids and the following Addenda, receipt of all of which is hereby acknowledged:

Addendum No.			
Addendum No			
Addendum No.			
Addendum No.			
Authorized Representative/Signatu	re	Date	
Authorized Representative/Title (P	rint)		

The contractor must acknowledge any issued addenda. Bids which fail to acknowledge the vendor's receipt of any addendum will result in the rejection of the offer if the addendum contained information which substantively changes the Owner's requirements or pricing.



Bid: CTC-13 2018 Dirt Road Paving INDEMNIFICATION

The contractor will indemnify and hold harmless the Owner, Colleton County and their agents and employees from and against all claims, damages, losses and expenses, including attorney's fees, arising out of or resulting from the performance of the Work provided that any such claims, damages, loss, or expense is attributable to bodily injury, sickness, disease or death, injury to or destruction of tangible property, including the loss of use resulting there from, and is caused by any negligent or willful act or omission of the Contractor, and anyone directly or indirectly employed by him/her or anyone for whose acts any of them may be liable.

In any and all claims against the Owner, Colleton County or any of their agents and/or employees by an employee of the Contractor, and anyone directly or indirectly employed by any of them, or anyone for whose acts any of them may be liable, the indemnification obligation shall not be limited in any way to the amount or type of damages, compensation or benefits payable by or for the Contractor under the Worker's Compensation Acts, Disability Benefit Acts, or other employee benefit acts. The obligation of the Contractor under this paragraph shall not extend to the liability of Colleton County or its agents and / or employees arising out of the reports, surveys, Change Orders, designs or Technical Specifications.

CONTRACTOR:	
BY:	
DATE:	
TELEPHONE NO.:	



Bid: CTC-13 2018 Dirt Road Paving CERTIFICATE OF FAMILIARITY

The undersigned, having fully familiarized him/her with the information contained within this entire solicitation and applicable amendments, submits the attached response, and other applicable information to the County, which I verify to be true and correct to the best of my knowledge. I further certify that this response is made without prior understanding, agreement, or connection with any corporation, Contractor or person submitting a response for the same materials, supplies or equipment, and is in all respects, fair and without collusion or fraud. I agree to abide by all conditions set forth in this solicitation and certify that I have signature authority to bind the company listed herein.

Are you a minority business? ► Yes (Women-owned / your response. ► No	Disadvantaged) If yes, please submit a copy of your certificate with
Mailing Address	Printed Name
City, State, Zip	Title
Date	Phone Number/Fax Number
	REMITTANCE ADDRESS
Company Name	Authorized Signature
Address	Email Address
City, State, Zip	Phone Number
Federal Tax ID Number	SC Sales Tax Number



Bid: CTC-13 2018 Dirt Road Paving DEBARMENT

The contractor is certifying that they are not currently debarred from responding to any request for bids by any agency or subdivision of the State of South Carolina or the United States Federal Government, nor are they an agent of any person or entity that is currently debarred from submitting bids on contracts by any agency or subdivision of the State of South Carolina or the United States Federal Government.

Authorized Representa	ative/Title (Print)		
Authorized Representa	ative/Signature	Date	
A the dead Decree	/6:		
DUN's No.			
51111/ N			
J			
Cage Code.			
SAM's No.			

J. PROJECT INFORMATION

ESTIMATED QUANTITIES

Quantity Total for All Roads

ITEM #	DESCRIPTION	UNIT	QUANTITY
1031000	Mobilization	LS	1
1050800	Construction Stakes, Lines, & Grades	LS	1
1071000	Traffic Control	LS	1
2011000	Clearing & Grubbing within Right of Way	LS	1
2031000	Unclassified Excavation	CY	3242
2033000	Borrow Excavation	CY	1900
2034000	Muck Excavation	CY	772
2081001	Fine Grading	SY	20384
3050108	Graded Aggregate Base Course (8" Uniform)	SY	18623
3069900	Maintenance Stone	TON	100
4030340	Hot Mix Asphalt Surface Course – Type C	TON	1858
6051120	Permanent Construction Signs (Ground Mounted)	SF	24
6271025	24" White Solid Lines (Stop/Diag Lines) Thermoplastic-125 mil	LF	36
6510105	Flat Sheet, Type III, Fixed Size & Message Sign	SF	34.25
6510106	Flat Sheet, Type III, Size Determined by Message	SF	27.21
6531210	U-Section Post for Sign Supports – 3P	LF	67.56
6531500	Reflective Sign Post Panels	LF	10
7141142	19"x30" Horizontal Elliptical RC Pipe – Class HE-III	LF	64
7141111	12" RC Pipe Culvert – Class III	LF	24
7141112	15" RC Pipe Culvert – Class III	LF	608
7141113	18" RC Pipe Culvert – Class III	LF	224
7141114	24" RC Pipe Culvert – Class III	LF	176
7141116	36" RC Pipe Culvert – Class III	LF	120
8041020	Rip-Rap Class B	TON	114
8048205	Geotextile/Erosion Control (Class 2) – Type B	SY	146
8081000	Moving Item 1	LS	1
8081000	Moving Item 2	LS	1
8100101	Permanent Grassing	MSY	19.02
8100200	Temporary Grassing	MSY	9.51
8151110	Temp. Erosion Control Blanket – Class B	MSY	4.22
8152007	Sediment Tube	LF	281
8153000	Silt Fence	LF	2378
8154050	Removal of Silt Retained by Silt Fence	LF	585
8156100	Ditch Check	TON	60

Durango Lane

ITEM #	DESCRIPTION	UNIT	QUANTITY
2031000	Unclassified Excavation	CY	1910
2033000	Borrow Excavation	CY	1343
2034000	Muck Excavation	CY	455
2081001	Fine Grading	SY	12213
3050108	Graded Aggregate Base Course (8" Uniform)	SY	11130
3069900	Maintenance Stone	TON	60
4030340	Hot Mix Asphalt Surface Course – Type C	TON	1109
6271025	24" White Solid Lines (Stop/Diag Lines) Thermoplastic-125 mil	LF	9
6510105	Flat Sheet, Type III, Fixed Size & Message Sign	SF	15.50
6510106	Flat Sheet, Type III, Size Determined by Message	SF	12.08
6531210	U-Section Post for Sign Supports – 3P	LF	27.31
6531500	Reflective Sign Post Panels	LF	4
7141142	19"x30" Horizontal Elliptical RC Pipe – Class HE-III	LF	64
7141112	15" RC Pipe Culvert – Class III	LF	384
7141113	18" RC Pipe Culvert – Class III	LF	176
7141114	24" RC Pipe Culvert – Class III	LF	84
7141116	36" RC Pipe Culvert – Class III	LF	120
8041020	Rip-Rap Class B	TON	94
8048205	Geotextile/Erosion Control (Class 2) – Type B	SY	120
8081000	Moving Item 1	LS	1
8081000	Moving Item 2	LS	1
8100101	Permanent Grassing	MSY	11.12
8100200	Temporary Grassing	MSY	5.56
8151110	Temp. Erosion Control Blanket – Class B	MSY	2.32
8152007	Sediment Tube	LF	162.50
8153000	Silt Fence	LF	1994
8154050	Removal of Silt Retained by Silt Fence	LF	499
8156100	Ditch Check	TON	54

Dakota Circle

ITEM #	DESCRIPTION	UNIT	QUANTITY
2031000	Unclassified Excavation	CY	782
2033000	Borrow Excavation	CY	478
2034000	Muck Excavation	CY	173
2081001	Fine Grading	SY	4408
3050108	Graded Aggregate Base Course (8" Uniform)	SY	4019
3069900	Maintenance Stone	TON	20
4030340	Hot Mix Asphalt Surface Course – Type C	TON	401
6271025	24" White Solid Lines (Stop/Diag Lines) Thermoplastic-125 mil	LF	18
6510105	Flat Sheet, Type III, Fixed Size & Message Sign	SF	12.5
6510106	Flat Sheet, Type III, Size Determined by Message	SF	10.02
6531210	U-Section Post for Sign Supports – 3P	LF	26.75
6531500	Reflective Sign Post Panels	LF	4
7141113	18" RC Pipe Culvert – Class III	LF	48
7141114	24" RC Pipe Culvert – Class III	LF	48
8081000	Moving Item 2	LS	1
8100101	Permanent Grassing	MSY	4.43
8100200	Temporary Grassing	MSY	2.27
8151110	Temp. Erosion Control Blanket – Class B	MSY	0.99
8152007	Sediment Tube	LF	75
8153000	Silt Fence	LF	309
8154050	Removal of Silt Retained by Silt Fence	LF	77

Angler Lane

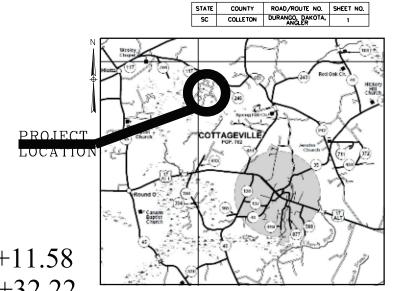
ITEM #	DESCRIPTION	UNIT	QUANTITY
2031000	Unclassified Excavation	CY	605
2033000	Borrow Excavation	CY	80
2034000	Muck Excavation	CY	144
2081001	Fine Grading	SY	3763
3050108	Graded Aggregate Base Course (8" Uniform)	SY	3474
3069900	Maintenance Stone	TON	20
4030340	Hot Mix Asphalt Surface Course – Type C	TON	348
6271025	24" White Solid Lines (Stop/Diag Lines) Thermoplastic-125 mil	LF	9
6510105	Flat Sheet, Type III, Fixed Size & Message Sign	SF	6.25
6510106	Flat Sheet, Type III, Size Determined by Message	SF	5.11
6531210	U-Section Post for Sign Supports – 3P	LF	13.50
6531500	Reflective Sign Post Panels	LF	2
7141111	12" RC Pipe Culvert – Class III	LF	24
7141112	15" RC Pipe Culvert – Class III	LF	224
7141114	24" RC Pipe Culvert – Class III	LF	44
8041020	Rip-Rap Class B	TON	20
8048205	Geotextile/Erosion Control (Class 2) – Type B	SY	26
8081000	Moving Item 2	LS	1
8100101	Permanent Grassing	MSY	3.444
8100200	Temporary Grassing	MSY	1.722
8151110	Temp. Erosion Control Blanket – Class B	SY	0.917
8152007	Sediment Tube	LF	43.75
8153000	Silt Fence	LF	74
8154050	Removal of Silt Retained by Silt Fence	LF	19
8156100	Ditch Check	TON	6

CONSTRUCTION PLANS

COLLETON COUNTY ROAD IMPROVEMENTS DURANGO LANE, DAKOTA CIRCLE, & ANGLER LANE

START DURANGO LANE: STA. 10+09.70 END DURANGO LANE: STA. 53+11.58 START DAKOTA CIRCLE: STA. 10+09.00 END DAKOTA CIRCLE: STA. 26+32.22

START ANGLER LANE: STA. 10+09.58 END ANGLER LANE: STA. 22+06.40



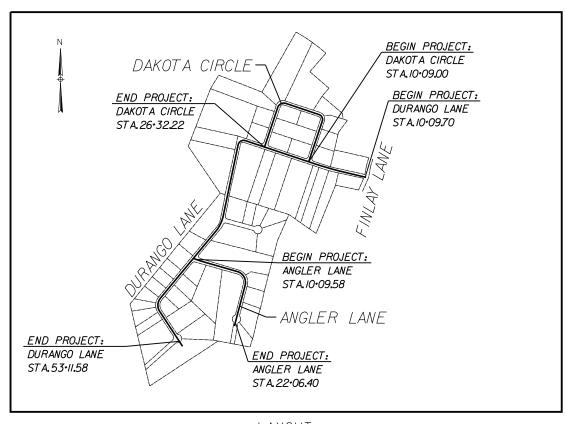
<u>UTILITIES</u>

TELEPHONE & CABLE PRTC. 292 ROBERTSON BLVD WALTERBORO, SC 29488 JIMMY HENDERSON 843-538-2425

FI FCTRIC

CEC2269 JEFFRIES HIGHWAY WALTERBORO, SC 29488 TIM AYER 843-538-5700

WATER & SEWER



LAYOUT NTS

PREPARED FOR COLLETON COUNTY BY:



SHEET INDEX

1	COVER SHEET
2	QUANTITY
3	TYPICAL SECTION
4	STANDARD DETAIL
5	STANDARD NOTES
6-7	PERMISSION SHEET
8-15	DURANGO LANE PLAN & PROFILE
16-18	DAKOTA CIRCLE PLAN & PROFILE
19-21	ANGLER LANE PLAN & PROFILE
X1-X8	DURANGO LANE CROSS SECTION SHEETS
X9-X11	DAKOTA CIRCLE CROSS SECTION SHEETS
X12-X14	ANGLER LANE CROSS SECTION SHEETS
36	GENERAL DATA SHEET
36	ΤΟΤ Δ Ι.

3 DAYS BEFORE DIGGING IN

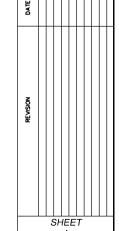
CALL I-888-72I-7877

Mead&Hunt

SOUTH CAROLINA

COLLETON COUNTY,





ITEM NO.	ITEM	QUANTITY	UNIT
1031000	MOBILIZATION	1.00	LS
1050800	CONSTUCTION STAKES, LINES & GRADES	1.00	EA
1071000	TRAFFIC CONTROL	1.00	LS
2011000	CLEARING & GRUBBING WITHIN RIGHT OF WAY	1.00	LS
2031000	UNCLASSSIFIED EXCAVATION	3,242.40	CY
2033000	BORROW EXCAVATION	1,900.05	CY
2034000	MUCK EXCAVATION	772.00	CY
2081001	FINE GRADING	20,384.00	SY
3050108	GRADED AGGREGATE BASE COURSE (8" UNIFORM)	18,622.93	SY
3069900	MAINTENANCE STONE	100.00	TON
4030340	HOT MIX ASPHALT SURFACE COURSE TYPE C	1,858.00	TON
6020005	PERM.CONST.SIGNS(GRND.MNTD)	24.00	SY
6271025	24" WHITE SOLID LINES (STOP/DIAG LINES)-THERMO125 MIL	36.00	LF
6510105	FLAT SHEET, TYPE III, FIXED SZ. & MSG. SIGN	34.25	SF
6510106	FLAT SHEET, TYPE III, SIZE DETERMINED BY MSG	27.21	SF
6531210	U-SECTION POST FOR SIGN SUPPORTS - 3P	67.56	LF
6531500	REFLECTIVE SIGN POST PANELS	10.00	LF
7 14 11 4 2	19"X 30" HORIZONTAL ELLIPTICAL(HE) RC PIPE CULCLASS HE-III	64.00	LF
7143612	12" SMOOTH WALL PIPE	24.00	LF
7143615	15" SMOOTH WALL PIPE	608.00	LF
7143618	18" SMOOTH WALL PIPE	224.00	LF
7143624	24" SMOOTH WALL PIPE	176.00	LF
7143636	36" SMOOTH WALL PIPE	120.00	LF
8041020	RIP-RAP (CLASS B)	114.00	TON
8048205	GEOTEX/EROS.CONT(CLASS2)TYPE B	146.00	SY
8081000	MOVING ITEM NO.1	1.00	LS
8081000	MOVING ITEM NO.2	1.00	LS
8100101	PERMANENT GRASSING	19.02	MSY*
8100200	TEMPORARY GRASSING	9.51	MSY*
8151110	TEMP. EROSION CONTROL BLANKET	4.22	MSY*
8152007	SEDIMENT TUBES FOR DITCH CHECKS	281.00	LF
8153000	SILT FENCE	2,378.00	LF
8154050	REMOVAL OF SILT RETAINED BY SILT FENCE	585.00	LF
8156100	DITCH CHECK	60.00	TON
	*Quantity is in thousands of square yards (i.e. 1,500 SY= 1.5 MSY)		
	Liquid asphalt binder is to be included with hot mix asphalt pay items		

STATE COUNTY ROAD/ROUTE NO. SHEET NO.
SC COLLETON DURANCO, DAKOTA, 2

Mead&-Iunt

JOB NO. 171215.01
DATE: 11/1/2018
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CHECKED BY:
SCALE: NTS

DURANGO / DAKOTA / ANGLER

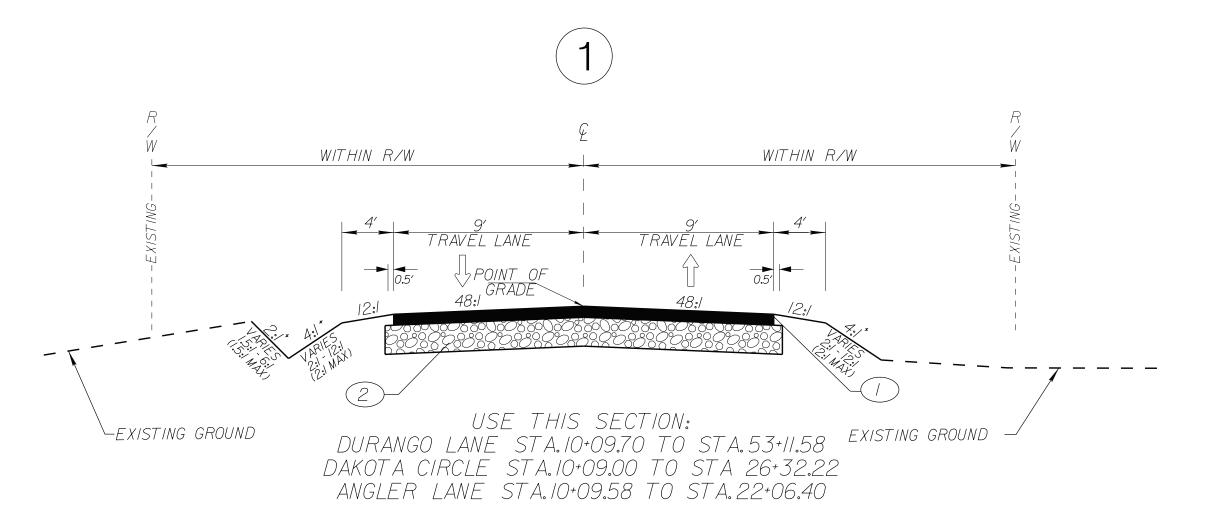
COLLETON COUNTY, SOUTH CAROLINA QUANTITY SHEET







TYPICAL SECTION OF IMPROVEMENT DURANGO LANE DAKOTA CIRCLE ANGLER LANE COLLETON COUNTY



LEGEND

*SEE CROSS SECTION SHEETS

1 HOTMIX ASPHALT SURFACE COURSE TYPE C (2")

② GRADED AGGREGATE BASE COURSE (8")

Mead&Hunt

ORAWN BY: LMH
CHECKED BY:
SCALE: NTS

ILE
ILE

COLLETON COUNTY, SOUTH CAROLINA







GENERAL NOTES

I. PROVISIONS SHALL BE MADE TO ENSURE POSITIVE DRAINAGE ON THE SITE AT ALL TIMES. NATURAL DRAINAGE FEATURES DISTURBED BY CONSTRUCTION MUST BE RE-ESTABLISHED. NO PONDING DUE TO SPOUS STOCKPILING OR OTHER ACTIVITIES SHALL BE PERMITTED.

2. WORK WITHIN PUBLIC RIGHT-OF-WAY OR PRIVATE EASEMENTS SHALL BE ACCOMPLISHED BY THE CONTRACTOR ACCORDING TO THE REQUIREMENTS OR CONDITIONS OF THE ENCROACHMENT PERMIT OR OTHER LEGAL DOCUMENTS AS THOUGH DOCUMENTS WERE ISSUED IN THE CONTRACTOR'S NAME, THE CONTRACTOR SHALL MAINTAIN COPIES OF THESE DOCUMENTS ON THE SITE AT ALL TIMES.

3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING EXISTING UTILITIES AND FOR REPAIRING ANY DAMAGE TO SAME, UTILITY LOCATIONS AS SHOWN ON THE PLANS ARE APPROXIMATE AND MAY NOT BE COMPLETE. THE CONTRACTOR SHALL CONTACT ALL UTILITY COMPANIES PRIOR TO BEGINNING WORK.

4. WHEN THE CONTRACTOR IS UNABLE TO COMPLETE HIS WORK AS SHOWN ON THE PLANS BECAUSE OF AN EXISTING UTILITY. THE CONTRACTOR SHALL STAKE THE LOCATION OF THE UTILITY PRIOR TO PROCEEDING AND CONTACT THE ENGINEER.

5. THE CONTRACTOR SHALL NOTIFY ALL PUBLIC AGENCIES, THE OWNER, THE ENGINEER AND ALL OTHER CONCERNED PARTIES WHEN CONSTRUCTION IS TO COMMENCE PRIOR TO ANY CONSTRUCTION, A PRE CONSTRUCTION MEETING SHALL BE HELD WITH THE COUNTY, THE CONTRACTOR. THE ENGINEER AND ANY OTHER INTERESTED PARTY.

6. DATA REQUIRED FOR PREPARATION OF AS-BUILT DRAWINGS SHALL BE OBTAINED BY THE CONTRACTOR AT THE TIME OF INSTALLATION. THIS DATA SHALL BE ACCUMULATED BY THE CONTRACTOR DURING THE CONSTRUCTION PERIOD AND BE SUBMITTED TO THE ENGINEER IN A NEAT AND LEGIBLE MANNER AFTER COMPLETION OF THE PROJECT.

7. ALL WORK SHALL BE IN ACCORDANCE WITH THE APPLICABLE FEDERAL, SOUTH CAROLINA AND LOCAL ORDINANCES, REGULATIONS, SPECIFICATIONS AND PERMITS. THE CONTRACTOR IS RESPONSIBLE FOR ACQUIRING ALL LICENSES AND PERMITS AS REQUIRED.

8. ALL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE INSTALLED PRIOR TO

PUBLIC ROAD

ALL DRIVEWAY RADII WILL BE 5' MINIMUM AND ALL

DRIVEWAY WIDTHS WILL BE 15' MINIMUM UNLESS

OTHERWISE NOTED ON PLANS.

9. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING ALL SILT BARRIERS AND SEDIMENT CONTROL INSTALLATIONS DURING CONSTRUCTION UNTIL COMPLETION OF THE SITE DEVELOPMENT

10. ALL DISTURBED AREAS SHALL BE GRASSED AND STABILIZED IMMEDIATELY AFTER FINAL GRADING, AS PER THE GRASSING SPECIFICATIONS.

II. ALL SLOPES SHALL BE HYDROSEEDED, AS PER THE GRASSING REQUIREMENTS AND SCDOT SPECIFICATIONS.

12. THE CONTRACTOR SHALL INSTALL AND MAINTAIN SILT BARRIERS AROUND ALL DRAINAGE STRUCTURES UNTIL ALL CONSTRUCTION HAS BEEN COMPLETED.

13. ADDITIONAL EROSION CONTROL MEASURES WILL BE EMPLOYED WHERE DETERMINED NECESSARY BY ACTUAL SITE CONDITIONS.

14. PROVISIONS TO PREVENT EROSION OF SOIL FROM THE SITE SHALL BE,AT MINIMUM,IN CONFORMANCE WITH THE REQUIREMENTS OF COLLETON COUNTY AND SCDHEC-OCRM DEALING WITH EROSION AND SEDIMENTATION.

15. PERPETUAL MAINTENANCE OF THE ROADWAY AND STORM DRAINAGE SYSTEM SHALL BE

16. CONTRACTOR IS RESPONSIBLE FOR RELOCATING EXISTING ROAD SIGNS, MAILBOXES AND FENCES AS NECESSARY.

IT. CONTRACTOR IS RESPONSIBLE FOR ENSURING THAT ALL EXISTING SIGNS HAVE REFLECTIVITY TYPE 3. ANY SIGNS NOT HAVING REFLECTIVITY TYPE 3 SHALL BE REPLACED BY THE CONTRACTOR AS INSTRUCTED BY THE ON SITE ENGINEER. ALL SIGNS SHALL BE PLACED IN ACCORDANCE WITH THE MUTCD AND SCDOT

IB. THE CONTRACTOR IS RESPOSIBLE FOR THE REPAIR AND REPLACEMENT OF ALL FENCEING LOCATED WITHIN RIGHT OF WAY TO BE MOVED OUTSIDE OF PROJECT LIMITS. PAY ITEM MOVING ITEM NO.I

19. CONTRACTOR TO COORDINATE WITH PROPERTY OWNER TO RESET MAILBOXES

20. SEE SCDOT STANDARD DRAWING FOR PERMANENT CONSTRUCTION SIGNING - SCHEME E

REQUIEMENTS

NOTES:

- 1. BEDDING IS REQUIRED WHEN TRENCH BOTTOM IS BELOW THE WATER TABLE.
- BEDDING SHALL BE COMPACTED CRUSHED STONE (CLASS 1 MATERIAL, SHAPED TO THE BOTTOM OF THE PIPE.
- FILL SHALL BE NATIVE MATERIAL FREE OF LARGE ROCKS, DEBRIS OR ORGANICS AND COMPACTED TO 98% OF THE SOIL'S STANDARD PROCTOR.
- 5. FILTER FABRIC TO BE PLACED AT ALL JOINTS.

REINFORCED CONCRETE PIPE BEDDING DETAIL

1"X1" METAL STAKE SLOPE ON BOTH SIDES, MIN. 18" IN GROUND WITH LESS THAN 12" OF STAKE ABOVE TUBE

METAL STAKE NOT TUBE MATERIAL FLOW TRENCH

STAKE DETAIL (WITH TRENCH)

SEDIMENT TUBE CHECK DAM DETAIL (NO BLANKET)

SEDIMENT TUBE DETAIL

SYMBOL LEGEND:

- IPF/IRF - IRON PIN/REBAR FOUND

- ROADSIGN

-⊙-- FHY - FIRE HYDRANT

- MAILMB - MAIL BOX/PAPER BOX

- TELPED - TELEPHONE PEDESTAL

- POWER POLE

- GUY WIRE

- SHRUB

- SEDIMENT TUBE - LIMITS OF CONSTRUCTION

- ROCK CHECK DAM

-x- - FENCELINE TREE

 \otimes WATER METER

(W) - WITNESS MARKER

- GAS VALVE - SEWER CLEANOUT

WATERVALVE

- PROPOSED DITCH

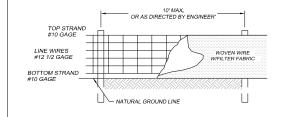
- ELECTRIC METER v - CABLE TV BOX

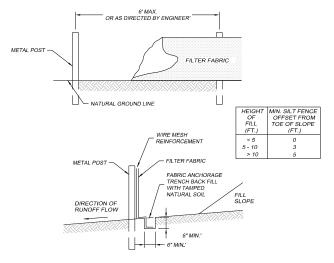
- EXISTING PIPES PROPOSED DRAINAGE PIPES

SILT FENCE --- NPDES -

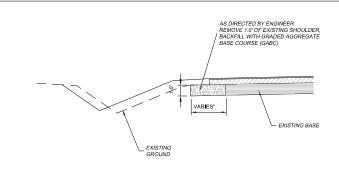
SILT FENCE NOTES:

- WOVEN WIRE BACKING IS REQUIRED ONLY ALONG CRITICAL LINE AND AT THE TOE OF SLOPES WHOSE HEIGHT IS GREATER THAN 5'.
- WIRE FENCE SHALL BE A MINIMUM OF 32" IN WIDTH AND SHALL HAVE A MINIMUM OF 6 LINE WIRES WITH 12" STAY SPACING.
- 3. STEEL POST SHALL BE A MINIMUM OF 5' LONG WEIGH A MINIMUM OF 1.3 POUNDS/FOOT, AND HAVE PROJECTIONS FOR FASTENING THE WIRE OR THE FABRIC TO THE POST. STEEL POST SHALL ALSO HAVE A METAL PLATE SECURELY ATTACHED SUCH THAT WHEN THE POST IS DRIVEN TO THE PROFER DEPTH, THE PLATE WILL BE BELOW GROUND LEVEL FOR ADDITIONAL STABILITY. POSTS SHALL BE INSTALLED TO A DEPTH DIRECTED BY THE ENGINEER, WITH 1 TO 2 INCHES OF THE POST PROTRUI BOVE THE TOP DO THE WIRE FENCE OF FABRIC BEING IDEAL, BUT IN ANY CASE, NO MORE THAN 3' OF THE POST SHALL PROTRUID ABOVE THE GROUND.
- 4. WHEN WOVEN WIRE IS NOT REQUIRED, POST SPACING WILL BE REDUCED TO A MAXIMUM OF 6 FEET ON CENTER. FABRIC SHALL BE ATTACHED TO METAL POST USING #9 WIRE STAPLES I 1/2 INCHES LONG AND TO STEEL POST USING TIE WIRES. NUMBERS AND LOCATION OF FASTENERS WILL BE AS DIRECTED BY THE ENGINEER IN A MANNER TO PREVENT SAGGING OR TEARING OF THE FABRIC BUT IN ALL CASES, AFFIXED TO THE POST POST IN NO. LESS THAN FOUR PLACES. WHEN WOVEN WIRE IS USED. THE WIRE WILL BE ATTACHED TO THE POST AS DESCRIBED ABOVE AND THE TILTER FABRIC WILL BE TILD TO THE FENCE AS DIRECTED BY THE ENGINEER IN SUCH A MANNER TO PREVENT SAGGING OR TEARING OF THE FABRIC.





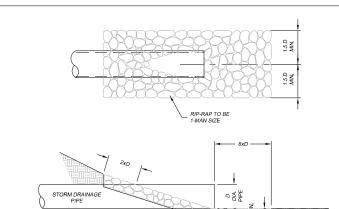
CONSTRUCTION OF A SILT FENCE SCALE: N.T.S.



STATE COUNTY ROAD/ROUTE NO. SHEET NO.

SC COLLETON DURANGO, DAKOTA,

GABC MUCKING DETAIL SCALE: N.T.S.



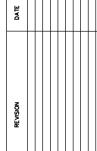
NOTES:

- 1. FILTER FABRIC TO BE INSTALLED BENEATH STONE RIP-RAF
- 2. WHEN PIPE EMPTIES INTO A DITCH OR SWALE, THE RIP-RAI WILL TAKE THE SHAPE OF THE DITCH OR SWALE

RIP-RAP PIPE OUTLET SCALE: N.T.S.







STONE CHECK DAM

SECTION A-A

SHEET

Mead

CAROLINA

DURANGO / DAKOTA / ANGL SOUTH COUNTY

DETAIL

TANDARD

COLLETON

WITH CARO

STANDARD NOTES

I. IF NECESSARY, SLOPES, WHICH EXCEED EIGHT (8) VERTICAL FEET SHOULD BE STABILIZED WITH SYNTHETIC OR VEGETATIVE MATS, IN ADDITION TO HYDROSEEDING, IT MAY BE NECESSARY TO INSTALL TEMPORARY SLOPE DRAINS DURING CONSTRUCTION. TEMPORARY BERMS MAY BE NEEDED UNTIL THE SLOPE IS BROUGHT TO GRADE.

2. STABILIZATION MEASURES SHALL BE INITIATED AS SOON AS PRACTICABLE IN PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITIE HAVE TEMPORARILY OR PERMANENTLY CEASED, BUT NO CASE MORE THAN FOURTEEN (14) DAYS AFTER WORK HAS CEASED, EXCEPT AS STATED BELOW.

STATED BELOW

- WHERE STABILIZATION BY THE I4" DAY IS PRECLUDED BY SNOW OR FROZEN GROUD CONDITIONS STABILIZATION MEASURES MUST BE INTIATED AS SOON AS PRACTICABLE - WHERE CONSTRUCTION ACTIVITY ON A PORTION OF THE SIRE IS TEMPORARILY CEASED, AND EARTH-DISTURBING ACTIVITIES WILL BE RESUMED WITHIN I4 DAYS, TEMPORARY STABILIZATION MEASURES DO NOT HAVE TO B INITIATED ON THAT PORTION OF THE SITE

3. ALL SEDIMENT AND EROSION CONTROL DEVICES SHALL BE INSPECTED ONCE EVERY CALENDAR WEEK, IF PERIODIC INSPECTION OR OTHER INFORMATION INDICATES THAT A BPM HAS BEEN INAPPROPRIATELY, OR INCORRECTLY, PERMITTEE MUST ADDRESS THE NECESSARY REPLACEMENT OR MODIFICATION REQUIRED TO CORRECT THE BPM WITHIN 48 HOURS OF IDENTIFICATION.

4. PROVIDE SILT FENCE AND/OR OTHER CONTROL DEVICES, AS MAY BE REQUIRED, TO CONTROL SOIL EROSION DURING UTILITY CONSTRUCTION. ALL DISTURBED AREAS SHALL BE CLEANED, GRADED, AND STABILIZED WITH GRASSING IMMEDIATELY AFTER THE UTILITY INSTALLATION. FILL, COVER, AND TEMPORARY SEEDING AT THE END OF EACH DAY ARE RECOMMENDED. IF WATER IS ENCOUNTERED WHILE TRENCHING, THE WATERSHOULD BE FILTERED TO REMOVE SEDIMENT BEFORE BEING PUMPED BACK INTO ANY WATERS OF THE STATE

5. ALL REOSION CONTROL DEVICES SHALL BE PROPERLY MAINTAINED DURING ALL PHASES OF CONSTRUCTION ACTIVITIES AND ALL DISTURBED AREAS HAVE BEEEN STABILIZED. ADDITIONAL CONTROL DEVICES MAY BE REQUIRED DURING CONSTRUCTION IN ORDER TO CONTROL EROSION AND/OR OFFSITE SEDIMENTATION.ALL TEMPORARY CONTROL DEVICES SHALL BE REMOVED ONCE CONSTRUCTION IS COMPLETE AND THE SITE IS STABILIZED.

6. THE CONTRACTOR MUST TAKE NECESSARY ACTION TO MINIMIZE THE TRACKING OF MUD ONTO THE PAVED ROADWAY(S) FROM CONSTRUCTION AREAS AND THE GENERATION OF DUST.THE CONTRACTOR SHALL DAILY REMOVE MUD/SOIL FROM PAVEMENT, AS MAY BE REQUIRED.

7. RESIDNTIAL SUBDIVION REQUIRE EROSION CONTROL FEATURES FOR INFRASTRUCTURE AS WELL AS FOR INDIVIDUAL LOT CONSTRUCTION.INDIVIDUAL PROPERTY OWNERS SHALL FOLLOW THESE PLANS DURING CONSTRUCTION OR OBTAIN APPROVAL OF AN INDIVIDUAL PLAN IN ACCORDANCE WITH S.C. REG.72-300 ET SEQ. AND SCRIODODO.

8. TEMPORARY DIVERION BERMS AND/OR DITCHES WILL BE PROVIDED AS NEEDED DURING CONSTRUCTION TO PROTECT WORK AREAS FROM UPSLOPE RUNOFF AND/OR TO DIVERT SEDIMENT-LADEN WATER TO APPROPRIATE TRAPS OR STABLE OUTLETS

9. ALL WATERS OF THE STATE (WOS), INCLUDING WETLANDS, ARE TO BE FLAGGED OR OTHERWISE CLEARLY MARKED IN THE FIELD ADOUBLE ROW OF SILT FENCE IS TO BE INSTALLED IN ALL AREAS WHERE A 50-FOOT BUFFER CAN'T BE MAINTAINED BETWEEN THE DISTURBED AREA AND ALL WOS. A 10-FOOT BUFFER SHOULD BE MAINTAINED BETWEEN THE LAST ROW OF SILT FENCE AND ALL WOS.

IO. LITTER, CONSTRUCTION DEBRIS, OILS, FUELS, AND BUILDING PRODUCTS WITH SIGNIFICANT POTENTIAL FOR IMPACT (SUCH AS STOCKPILES OF FRESHLY TREATED LUMBER) AND CONSTRUCTION CHEMICALS THAT COULD BE EXPOSED TO STORM WATER MUST BE PREVENTED FROM BECOMING A POLLUTANT SOURCE IN STORM WATER DISCHARGES.

II. A COPY OF THE SWPPP,INSPECTION RECORDS,AND RAINFALL DATA MUST BE RETAINED AT THE CONSTRUCTION SITE OR A NEARBY LOCATION EASILY ACCESSIBLE DURING NORMAL BUSINESS HOURS,FROM THE DATE OF COMMENCEMENT OF CONSTRUCTION ACTIVITIES TO THE DATE THAT FINAL STABILIZATION IS REACHED.

I2. INITIATE STABILIZATION MEASURES ON ANY EXPOSED STEEP SLOPE (3HM) OR GREATERIWHERE LAND-DISTURBING ACTIVITIES HAVE PERMANENTLY OR TEMPORARILY CEASED, AND WILL NOT RESUME FOR A PERIOD OF 7 CALENDAR DAYS.

13. MINIMIZE SOIL COMPACTION AND, UNLESS INFEASIBLE, PRESERVE TOPSOIL.

14. MIMIMIZE THE DISCHARGE OF POLLUTANTS FROM EQUIPMENT AND VEHICLE WASHING, WHEEL WASH WATER, AND OTHER WASH WATERS, MUST BE TREATED IN A SEDIMENT BASIN OR ALTERNATIVE CONTROL THAT PROVIDES EQUIVALENT OR BETTER THEATMENT PRIOR TO DISCHARGE;

IS. MINIMIZE THE DISCHARGE OF POLLUTANTS FROM DEWATERING OF TRENCHES AND EXCAVATED AREAS.THESE DISCHARGE ARE TO BE ROUTED THROUGH APPROPRIATE BMPS (SEDIMENT BASIN, FILTER BAG, ECT.).

16. THE FOLLOWING DISCHARGES FROM SITES ARE PROHIBITED:
- WASTEWATER FROM WASHOUT OF CONCRETE, UNLESS MANAGED BY AN APPROPRIATE

CONTROL - WASTEWATER FROM WASHOUT AND CLEANOUT OF STUCCO, PAINT, FORM RELEASE OILS,

CURING COMPOUNDS AND OTHER CONSTRUCTION MATERIALS:
-FUEL,OILS,OR OTHER POLLUTANTS USED IN VEHICLE AND EQUIPMENT OPERATION AND
MAINTENCE: AND

SOAPS OR SOLVENTS USED IN VEHICLES AND EQUIPMENT WASHING

IT. AFTER CONSTRUCTION ACTIVITIES BEGIN, INSPECTIONS MUST BE CONDUCTED AT A MINIMUM OF AT LEAST ONCE EVER CALENDAR WEEK AND MUST BE CONDUCTED UNTIL FINAL STABILIZATION IS REACHED ON ALL AREAS OF THE CONSTRUCTION SITE.

IB. IF EXISTING BMPS NEED TO BE MODIFIED OR IF ADDITIONAL BMPS ARE NECESSARY TO COMPLY WITH THE REQUIREMENTS OF THIS PERMIT AND/OR SC'S WATER QUALITY STANDARDS, IMPLEMENTATIONS MUST BE COMPLETED BEFORE THE NEXT STORM EVENT WHENEVER PRACTICABLE. IF IMPLEMENTATION BEFORE THE NEXT STORM EVENT IS IMPRACTICABLE. THE SITUATION MUST BE DOCUMENTED IN THE SWPPP AND ALTERNATIVE BMPS MUST BE IMPLEMENTED AS SOON AS REASONABLY POSSIBLE.

19. A PRE-CONSTRUCTION CONFERENCE MUST BE HELD FOR EACH CONSTRUCTION SITE WITH AN APPROVED ON-SITE SWPPP PRIOR TO THE IMPLEMENTATION OF CONSTRUCTION ACTIVITIES.FOR NON-LINEAR PROJECTS THAT DISTURB 10 ACRES OR MORE THIS CONFERENCE MUST BE HELD ON-SITE UNLESS THE DEPARTMENT HAS APPROVED OTHERWISE.

STATE COUNTY ROAD/ROUTE NO. SHEET NO.
SC COLLETON DURANGO, DAKOTA, 5

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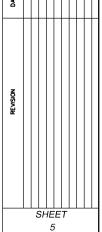
DATE: 11/1/2018
DRAWN BY: LIMH
CHECKED BY:
SCALE: NTS
15

DURANGO / DAKOTA / ANGLER COLLETON COUNTY, SOUTH CAROL

NOT







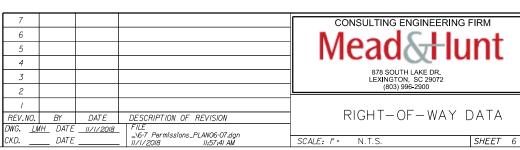
PRELIMINARY NOT FOR CONSTRUCTION

COLLETON DURANGO, DAKOTA, 6

TRACT NO.	PROPERTY OWNER	TAX MAP	TOTAL TRACT	A OBTAIN			REMAINDER LEFT	REMAINDER DATE	TYPE OF	OUTFALL DITCH	SLOPE	DRAINAGE E STRUCTURE C	EROSION CONTROL	ENTRANCE CONSTRUCTION REMARKS		
NO.				OUTFALL ACRES	LEFT	RIGHT	TOTAL	LEFT B ACRES	RIGHT B ACRES	ACQUIRED	TYPE OF INSTRUMENT	PERMISSION (YES)	PERMISSION (YES)	PERMISSION (YES)	PERMISSION (YES)	PERMISSION (YES)
1	MILTN & THEA CHES ALWELL	118-00-00-145.000											YES			
2	ODIS C. & LORAINE THOMAS	118-00-00-190.000											YES		YES	
3	CLIFTON B. ANCRUM	118-00-00-192.000														
4	JANNETTE GREEN	118-00-00-218.000														
5	MALEKIA N. WILLIAMS	118-00-00-291.000														
6	PAUL & CYNTHIA FLEMING	118-00-00-241.000														
7	JOE W. & RHODA M. MILLER	118-00-00-197.000														
8	PHILLIP WALTHALL	118-00-00-175.000														
9	WAYNE B. WEST	118-00-00-164.000														
10	ANDREW J. & THEA G. CHESTER	118-00-00-167.000													YES	
11	JOHN R. LITTLE & ROBIN MIZELL	118-00-00-234.000														
12	ROBIN MIZELL	118-00-00-177.000														
13	ROBIN L. MIZELL	118-00-00-189.000														
14	RYAN L. MCKINLEY	118-00-00-188.000													YES	
15	ROBIN L. LITTLE	118-00-00-165.000														
16	JERRY D. & TONI S. SMOAK	118-00-00-154.000														
17	DOUGLAS R.L. & JEANNE S. HODGE	118-00-00-155.000														
18	ROBERT G. & MARY L. EVERARD	118-00-00-184.000														
19	LUCKY F. PERRY & DASIEL ROSE	118-00-00-231.000											YES		YES	
20	THOMAS DOUGLAS	118-00-00-261.000														
21	RACHEL GAHAGAN	118-00-00-288.000														
22	BILLY R. FRYE	118-00-00-240.000														
23	HELEN A. GRIFFITH	118-00-00-270.000														
24	HELEN A. GRIFFITH	118-00-00-271.000														
25	JAMES ESTES	118-00-00-272.000														
26	ELIZABETH DELORES HAENDLE	118-00-00-273.000														
27	HELEN A. GRIFFITH	118-00-00-274.000														
28	HELEN GRIFFITH	118-00-00-275.000														
29	HAZEL L. DAVIS	118-00-00-278.000														
30	CAROLYN ROPERTA	118-00-00-239.000														
31	HELEN A. GRIFFITH	118-00-00-268.000														
32	DAVID W. JOHNSTON & JANNETT BOYD	137-00-00-049.000														
	1			'				t e				1				

A TOTAL OBTAIN INCLUDES HIGHLAND, MARSH AND OUTFALL DITCHES OBTAINS WILL BE SHOWN IN PARENTHESES UNDER SOUARE FEET. IN RURAL AREAS, OBTAINS, MAY BE SHOWN IN ACRES ONLY. OUTFALL DITCHES WILL BE SHOWN IN ACRES ONLY.





RIGHT-OF-WAY DATA

SCALE: I" = N.T.S. SHEET 6

B SHOW REMAINDER IN SQUARE FEET WHEN LESS THAN 0.25 ACRES.

PRELIMINARY NOT FOR CONSTRUCTION

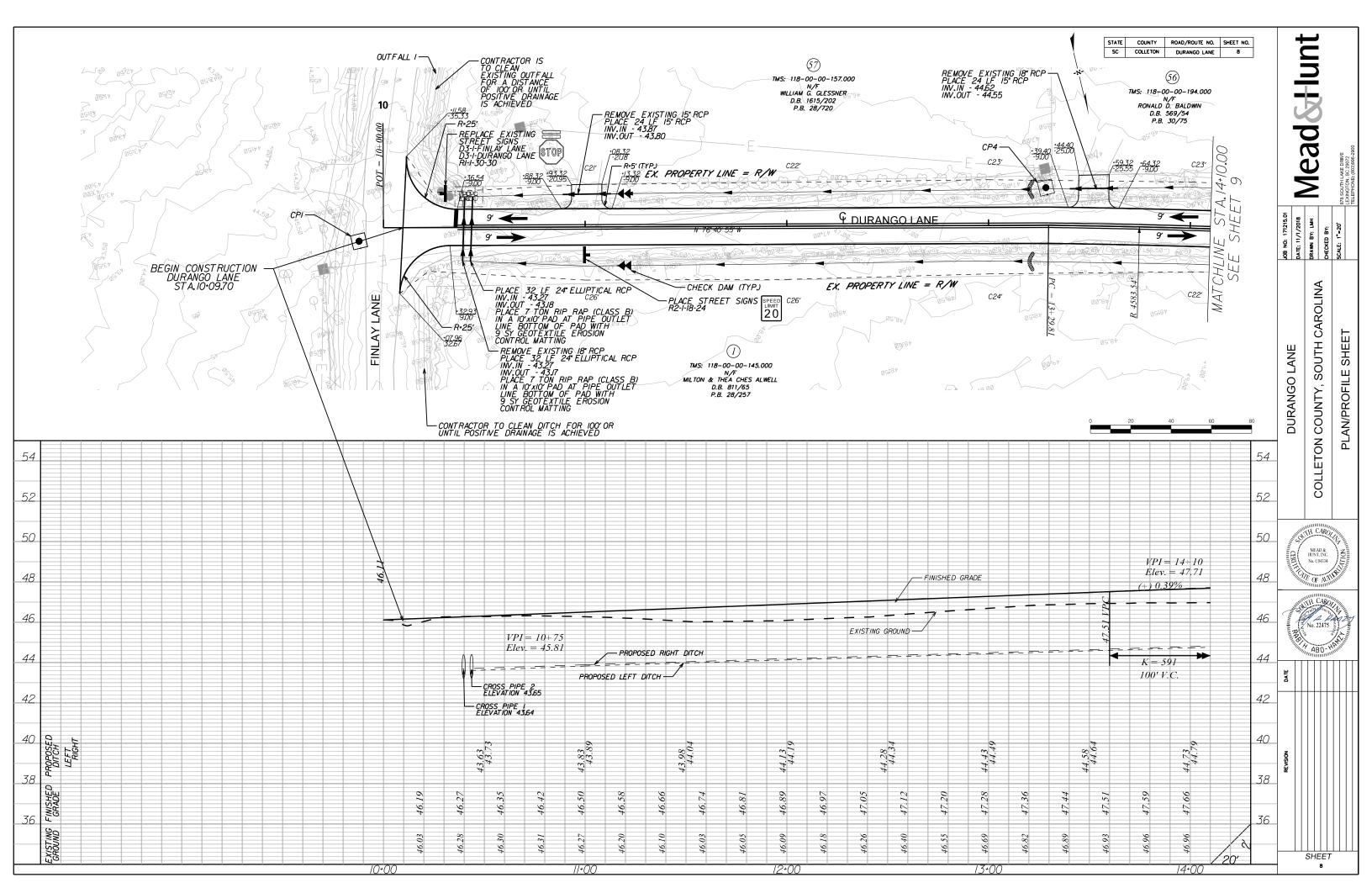
COLLETON DURANGO, DAKOTA, 7

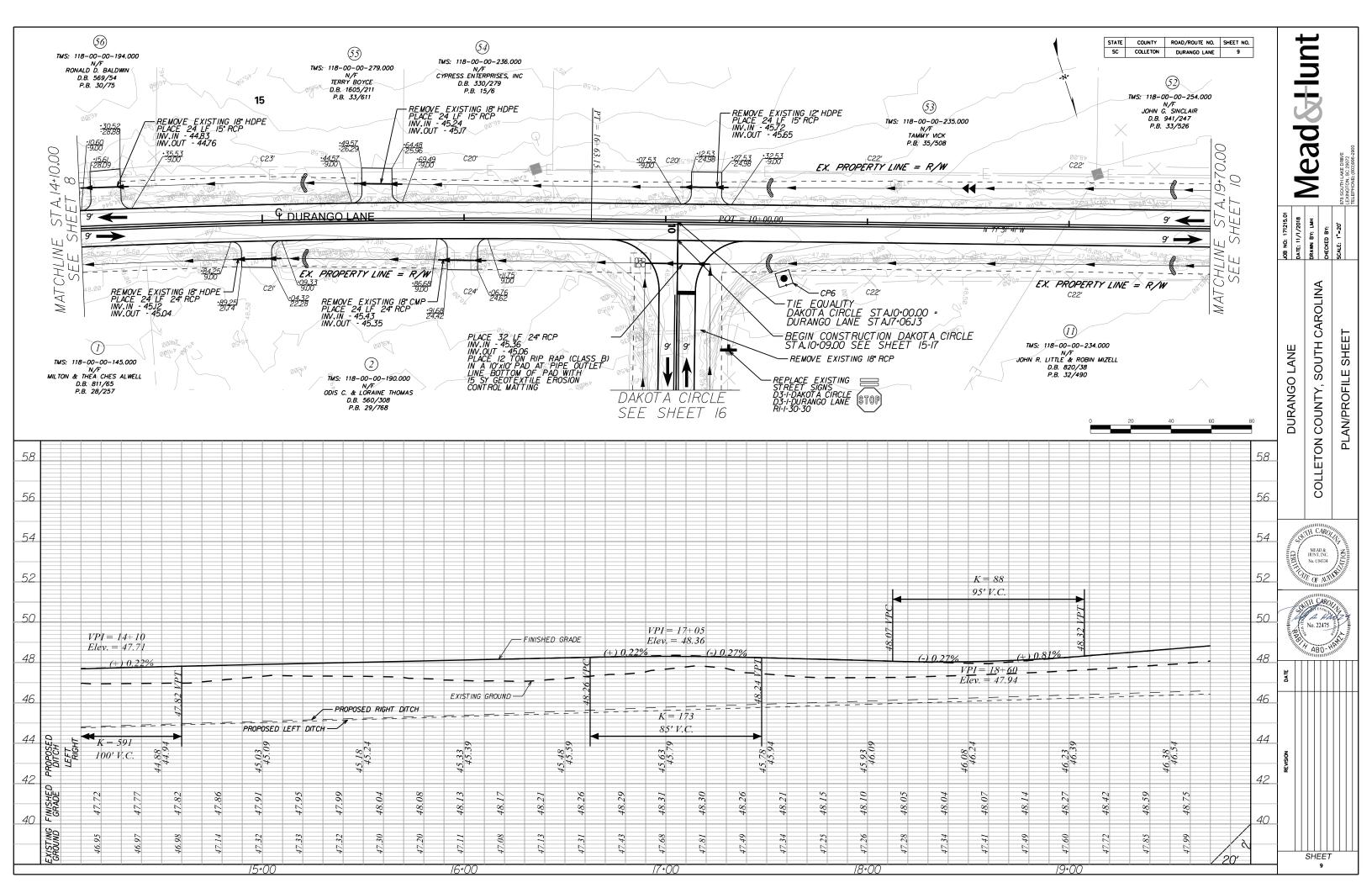
TRACT NO.	PROPERTY OWNER	TAX MAP	TOTAL TRACT	OBTAIN OT			REMAINDER LEFT	REMAINDER DATE	TYPE OF	OUTFALL DITCH	JTFALL DITCH SLOPE PERMISSION PERMISSION (YES) (YES)	DRAINAGE EROSION STRUCTURE CONTROL		ENTRANCE CONSTRUCTION REMARKS			
NO.				OUTFALL ACRES	LEFT	RIGHT	TOTAL	ACRES B	ACRES B	ACQUIRED	TYPE OF INSTRUMENT	OUTFALL DITCH PERMISSION (YES)	(YES)	PERMISSION (YES)	PERMISSION (YES)	PERMISSION (YES)	
33	HELEN A. GRIFFITH	118-00-00-266.000															
34	CHRISTINA REESE	118-00-00-265.000															
35	HELEN A. GRIFFITH	118-00-00-264.000															
36	KAREN MCKINLEY	118-00-00-237.000															
37	HENRY CROSBY	118-00-00-263.000															
38	PEGGY TUCKER																
40	KRYSTAL & MONTALBAN KANTALA	118-00-00-269.000															
41	GUY A OLIN, JR	118-00-00-243.000															
42	MARION GRIFFIN	118-00-00-244.000															
43	ISIAH & LETHA B. SMITH	118-00-00-23.000															
44	RONALD J. BRUNNER	118-00-00-262.000															
49	RONALD & MELISSA HARRISON	118-00-00-256.000											YES		YES		
50	AGNES I SHAFFER	118-00-00-176.000															
51	MICHEAL P. & DOROTHY C. SLOAN	118-00-00-231.000															
52	JOHN G. SINCLAIR	118-00-00-254.000															
53	TAMMY VICK	118-00-00-235.000															
54	CYPRESS ENTERPRISES, INC	118-00-00-236.000															
55	TERRY BOYCE	118-00-00-279.000															
56	RONALD D. BALDWIN	118-00-00-194.000															
57	WILLIAM G. GLESSNER	118-00-00-157.000															
															<u> </u>		
		<u> </u>		 					<u> </u>							<u> </u>	

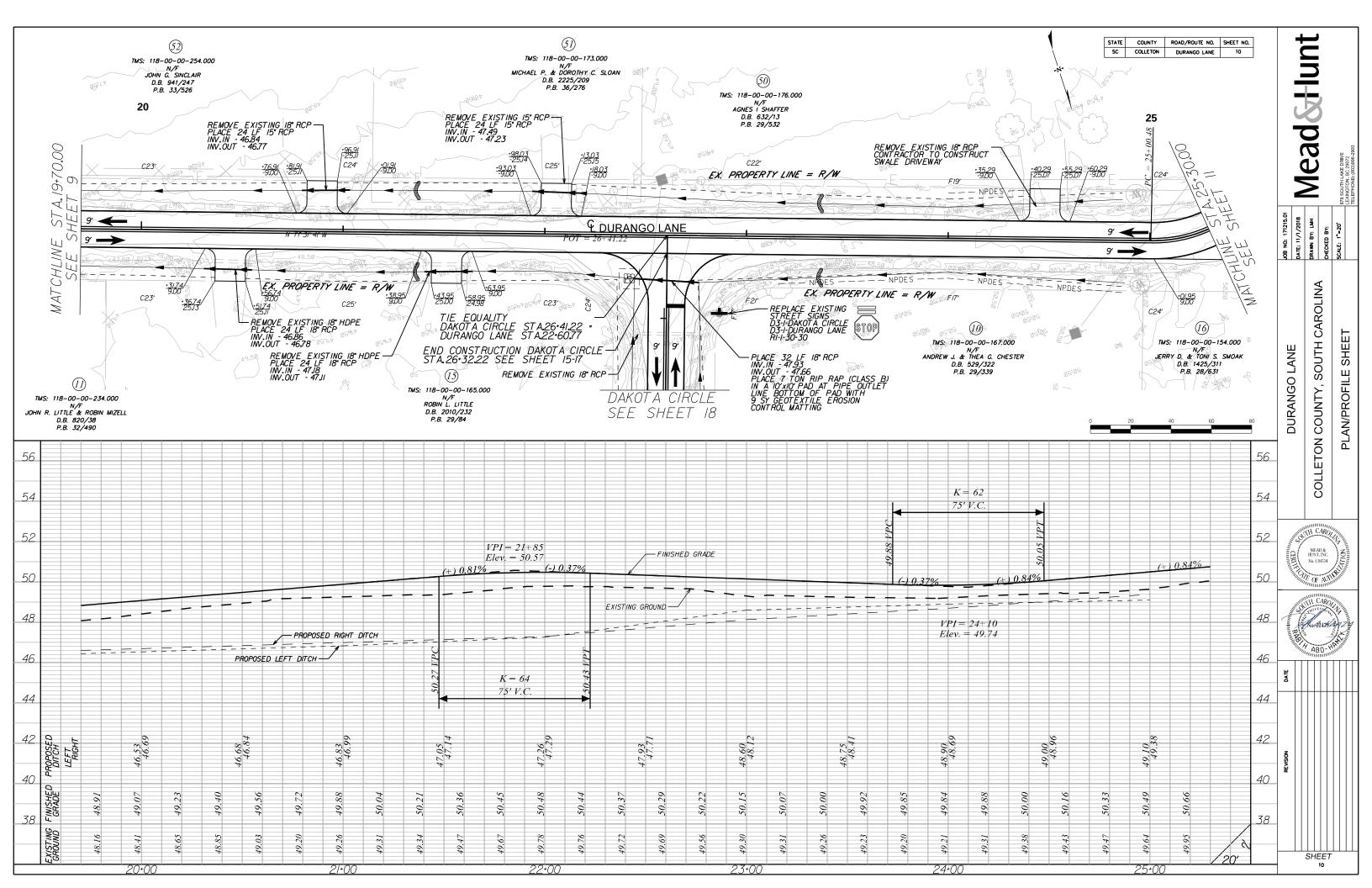


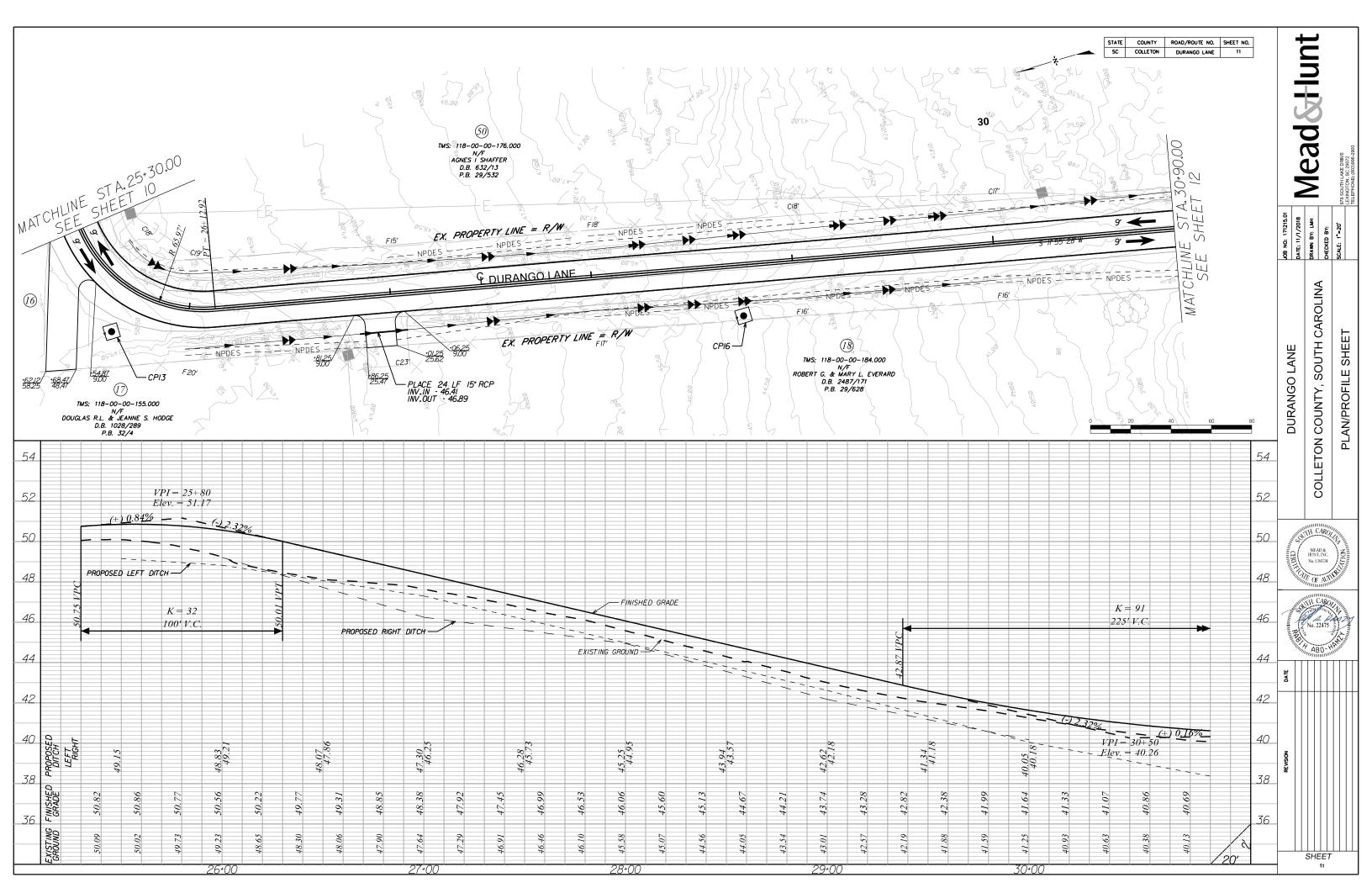
7				CONSULTING ENGINEERING FIRM								
6				N/aadCllust								
5				Mead&Hunt								
4												
3				878 SOUTH LAKE DR. LEXINGTON, SC 29072								
2				(803) 996-2900								
1												
REV.NO.	BY	DATE	DESCRIPTION OF REVISION	RIGHT-OF-WAY DATA								
DWG. <u>LM</u>	<u>IH</u> DATE	11/1/2018	FILE\6-7 Permissions_PLANO6-07.dgn									
CKD	DATE			SCALE: I" = N.T.S. SHEET 7								

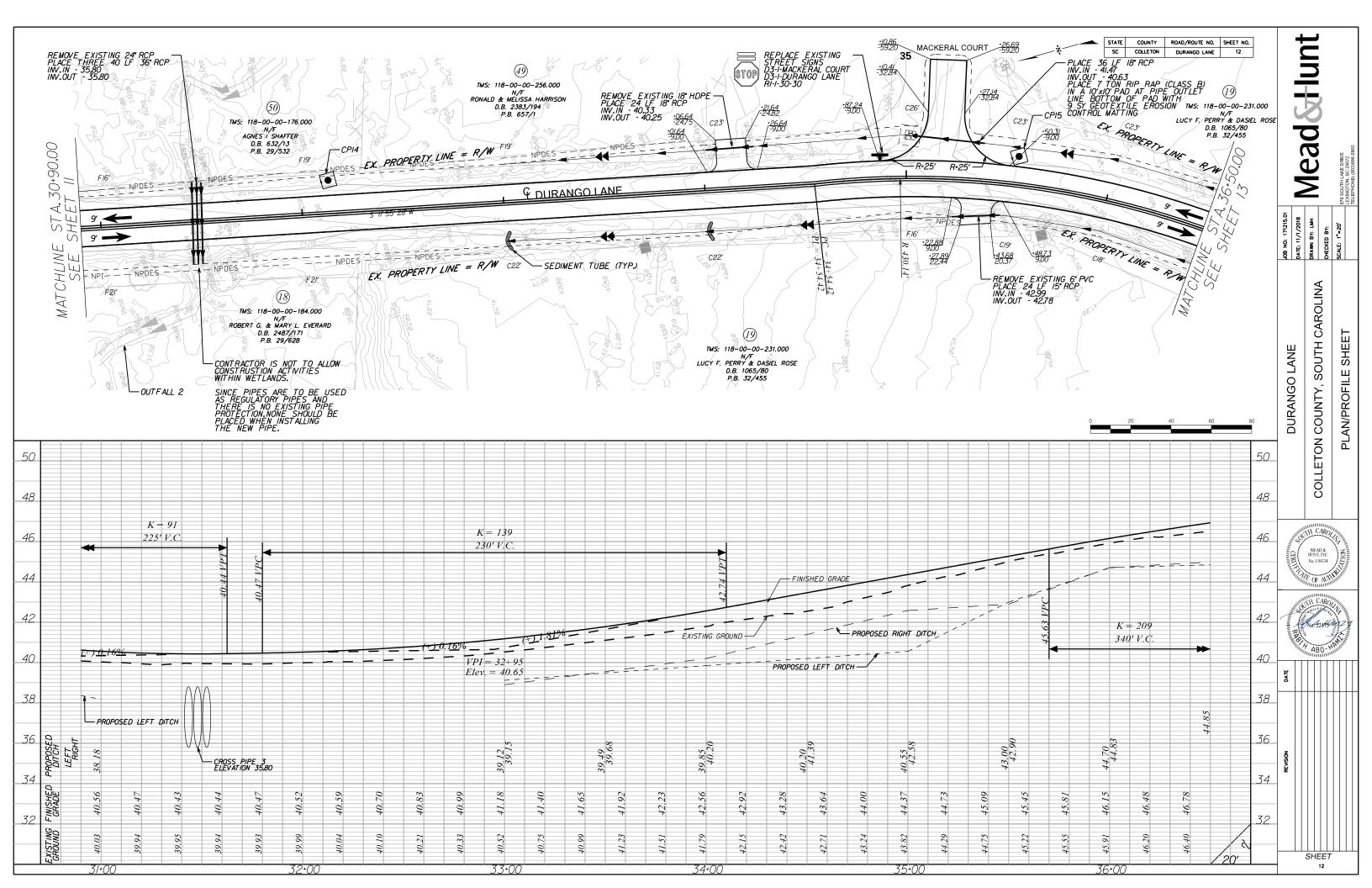
B SHOW REMAINDER IN SQUARE FEET WHEN LESS THAN 0.25 ACRES.

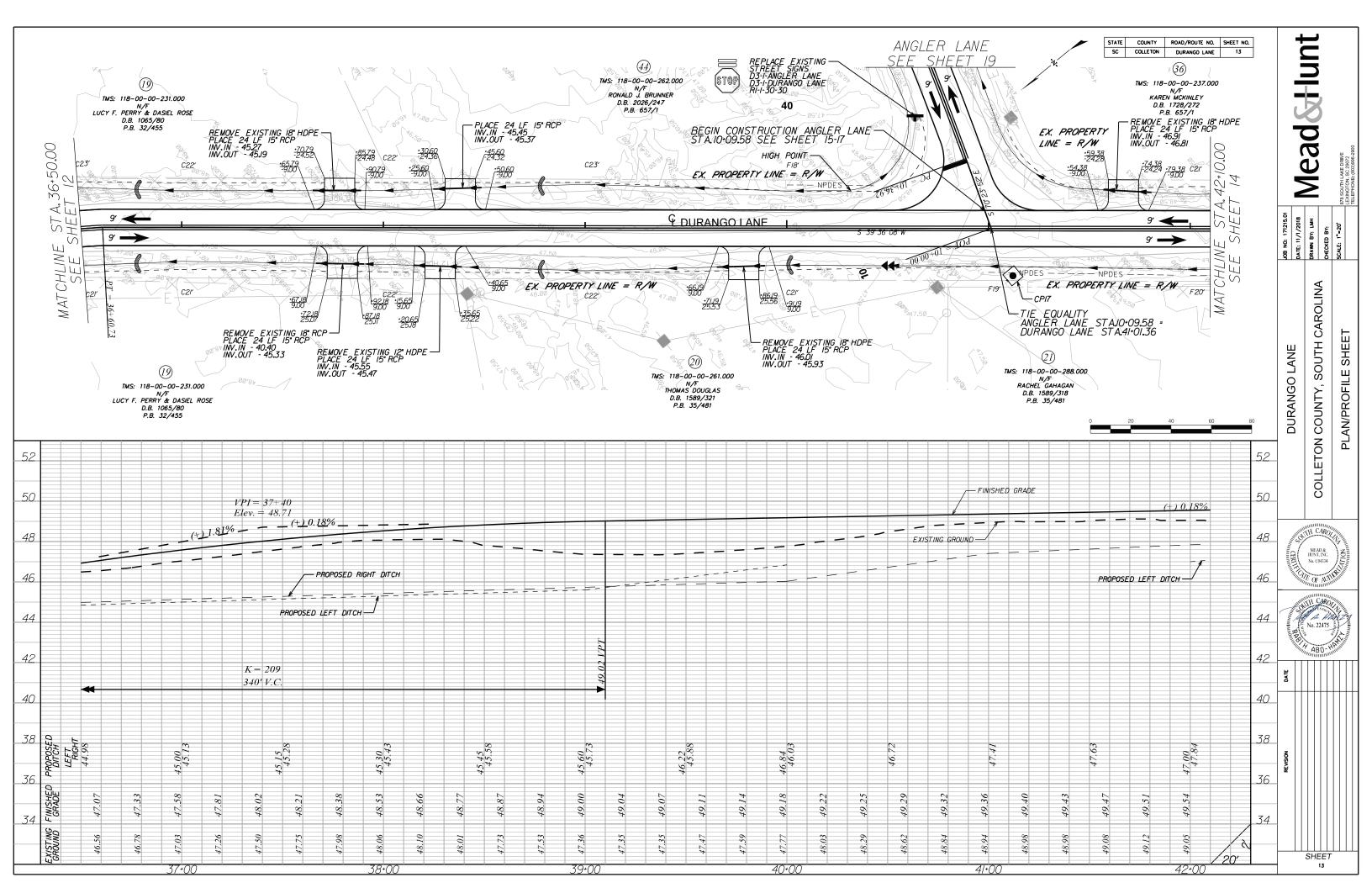


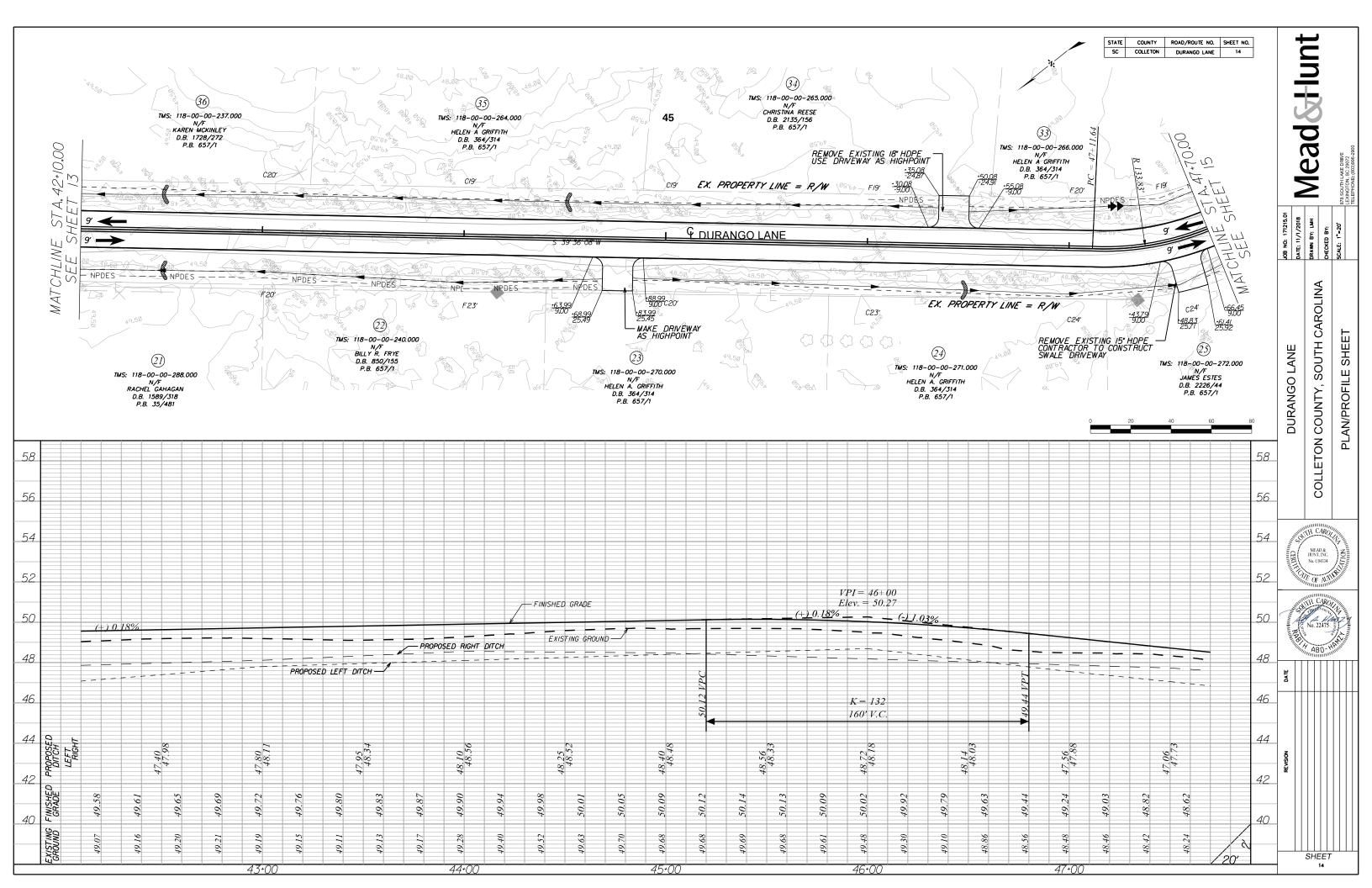


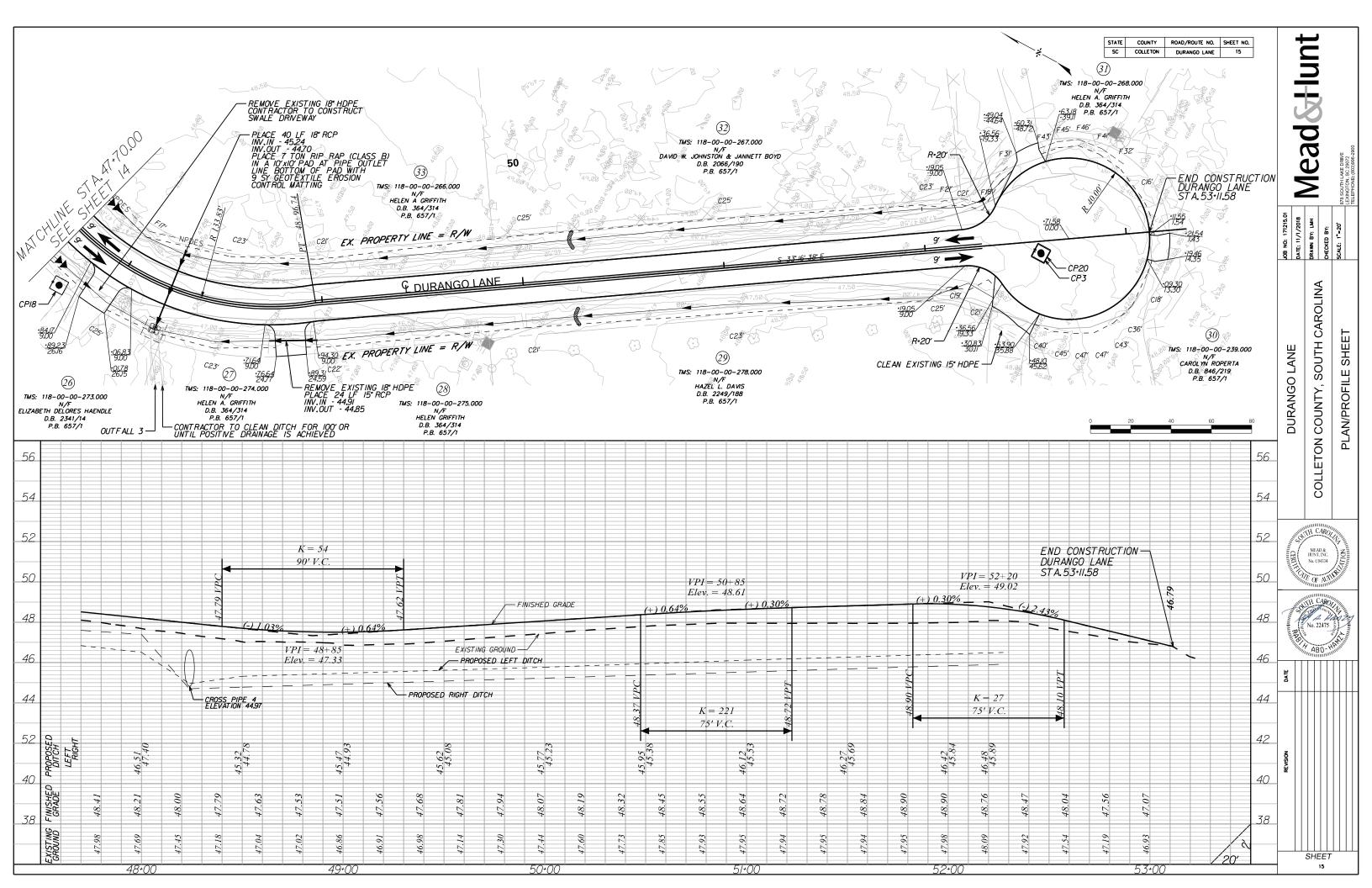


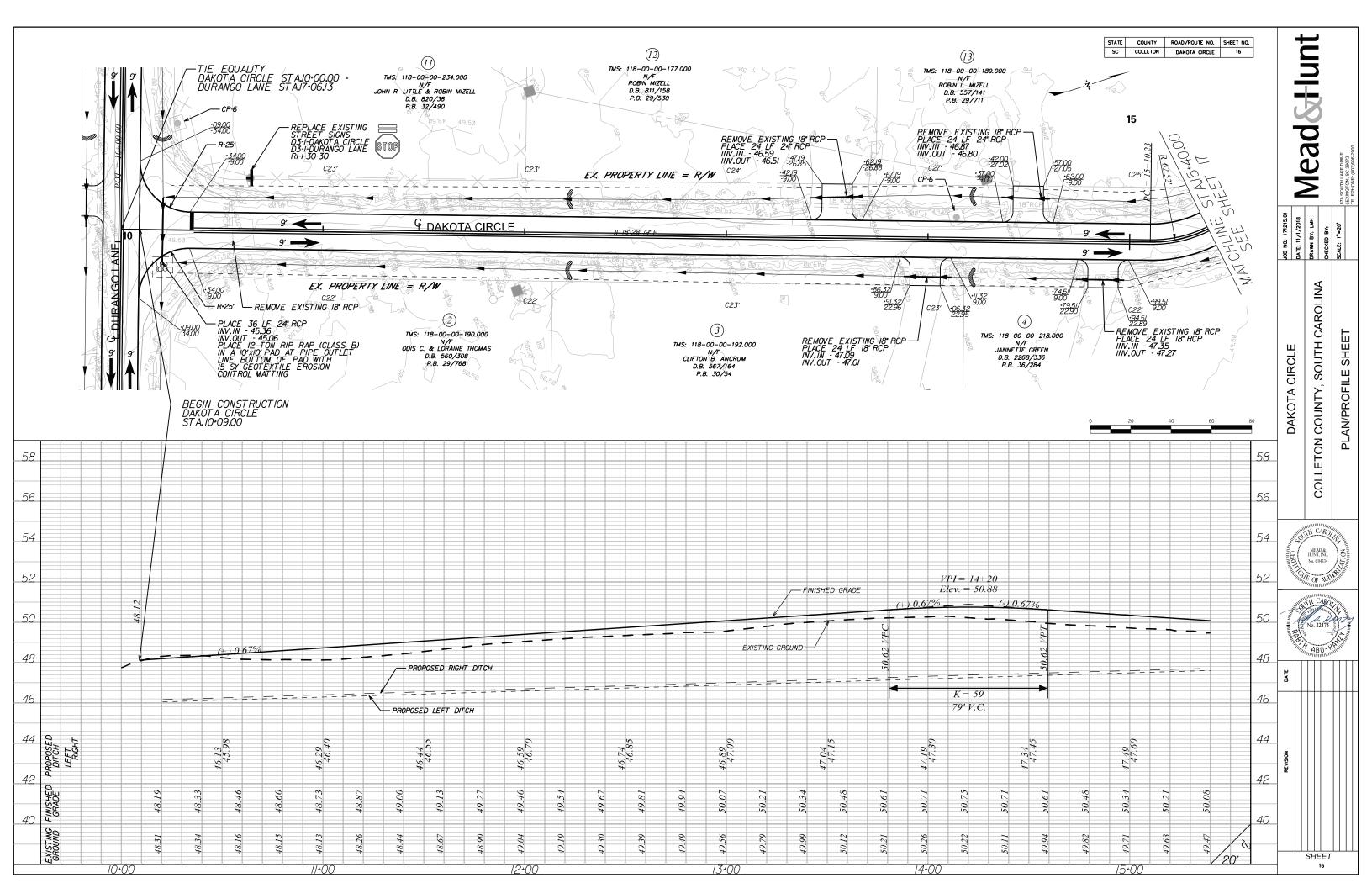


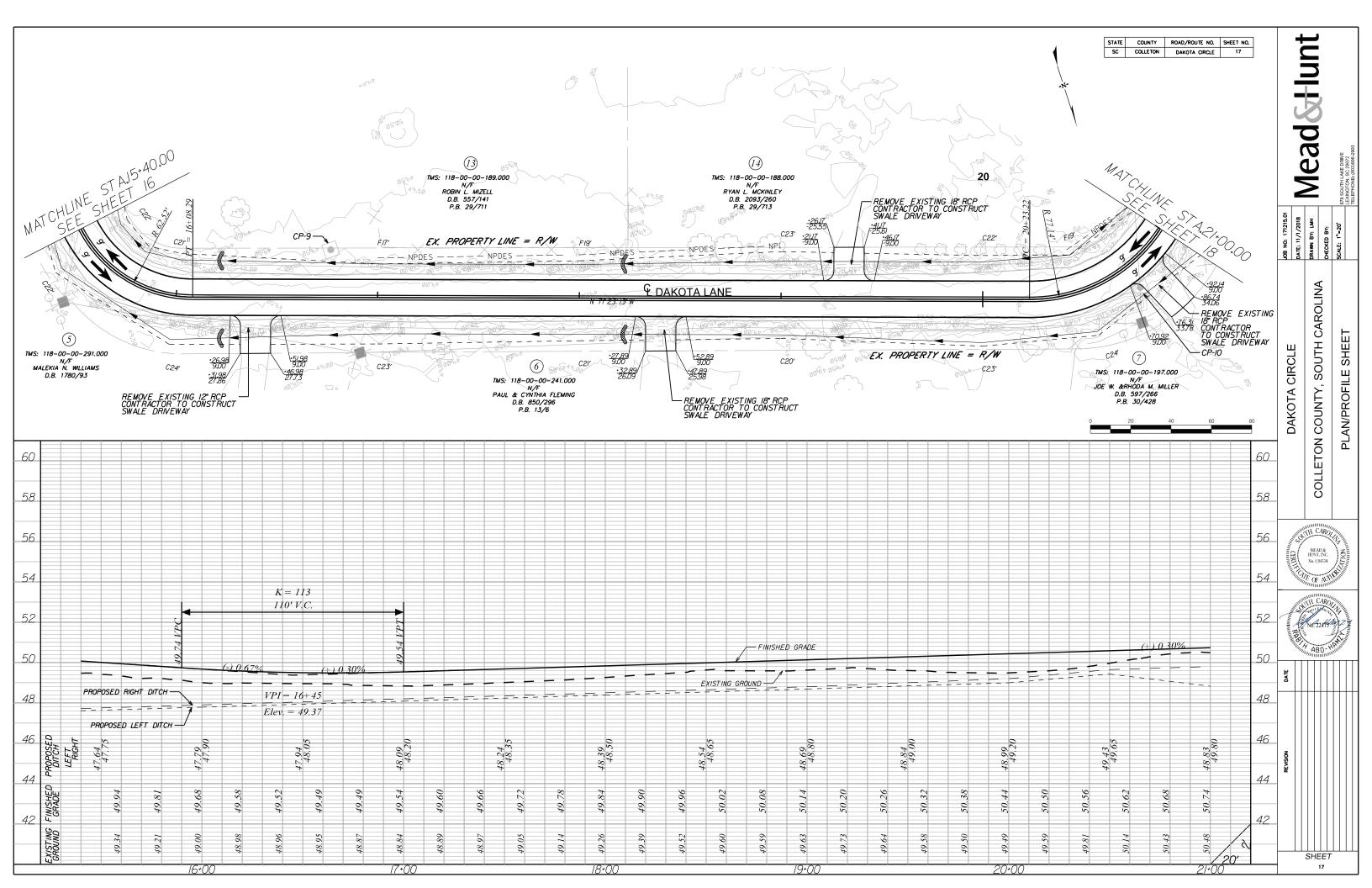


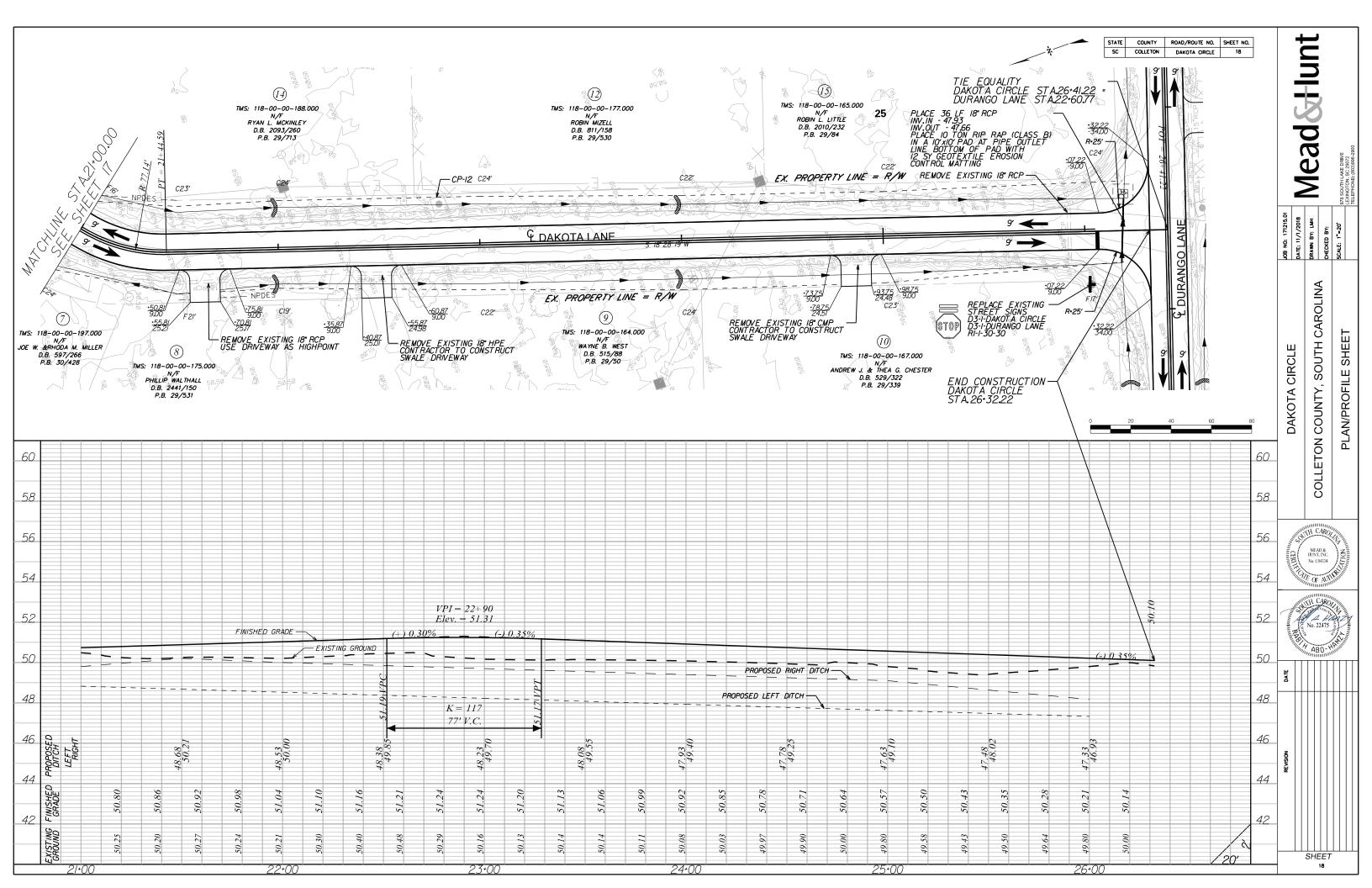


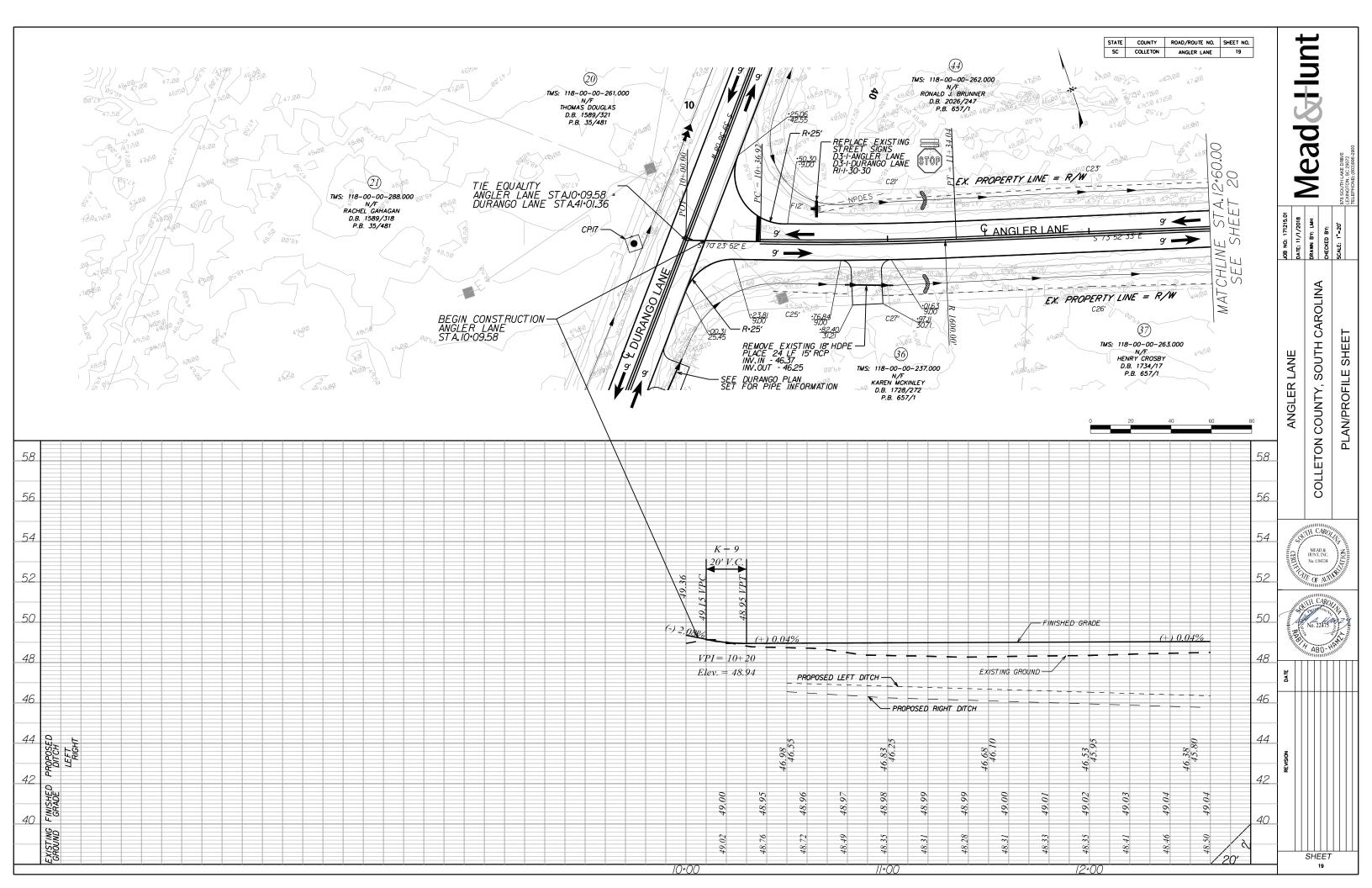


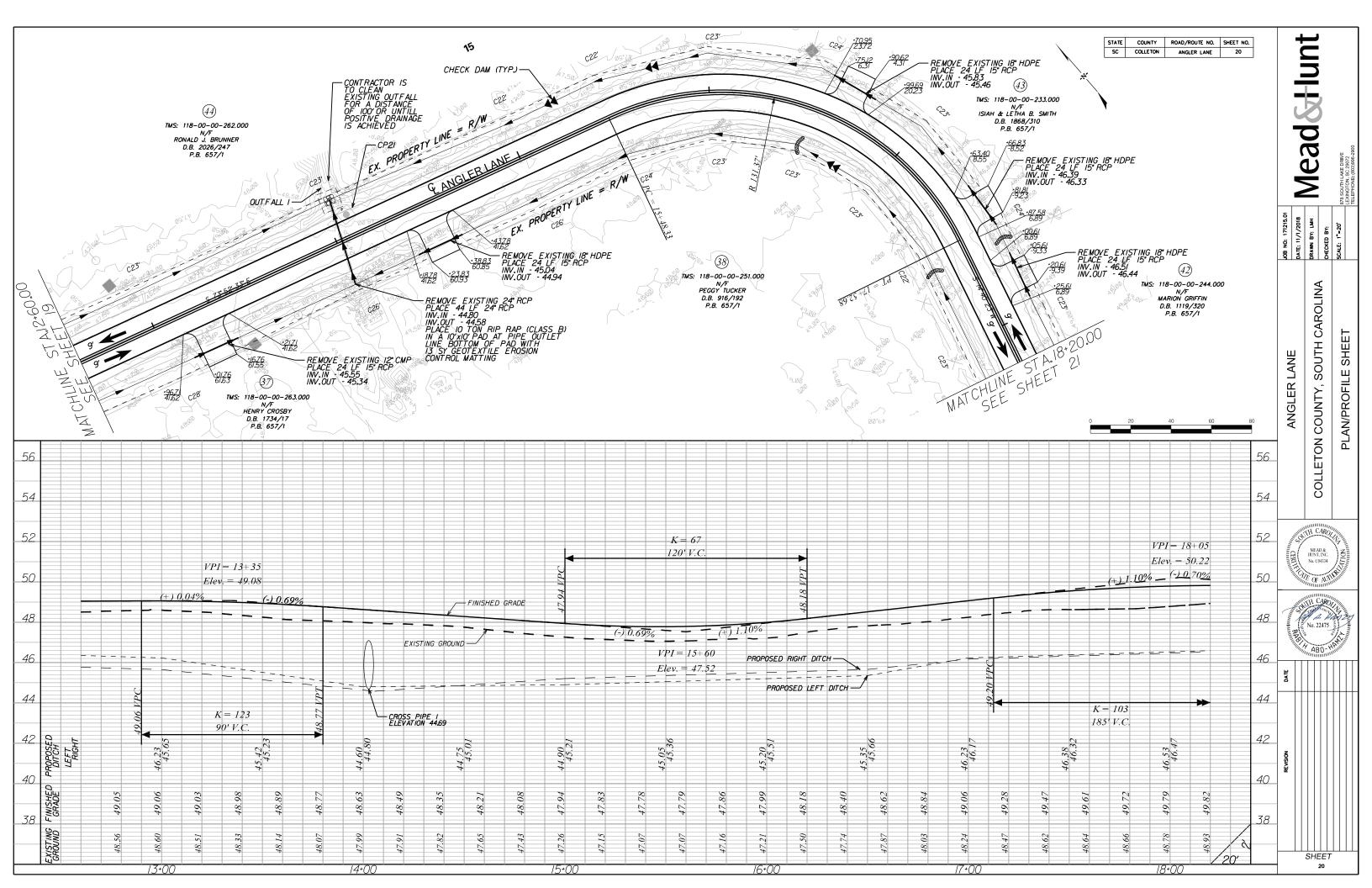


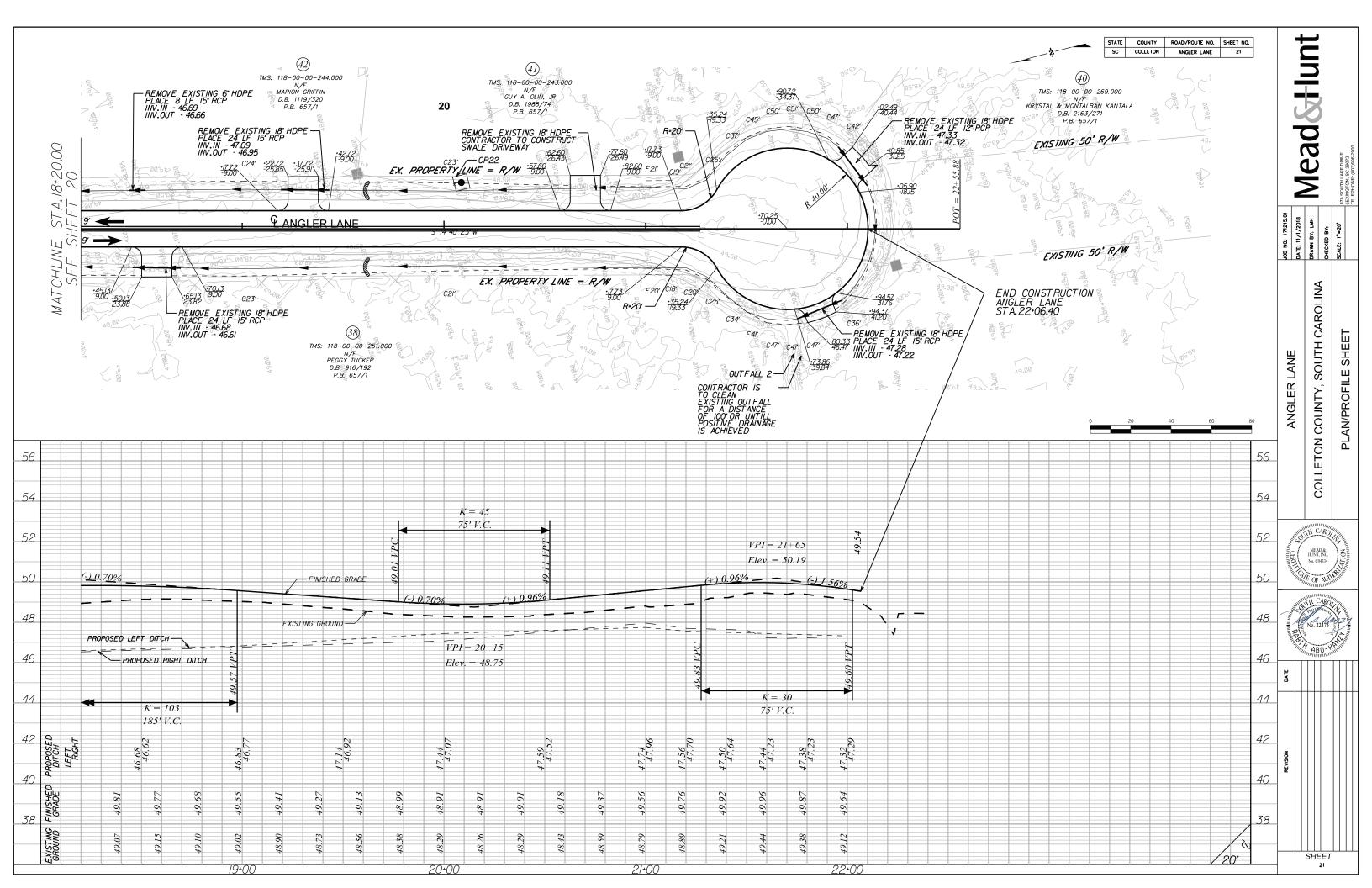


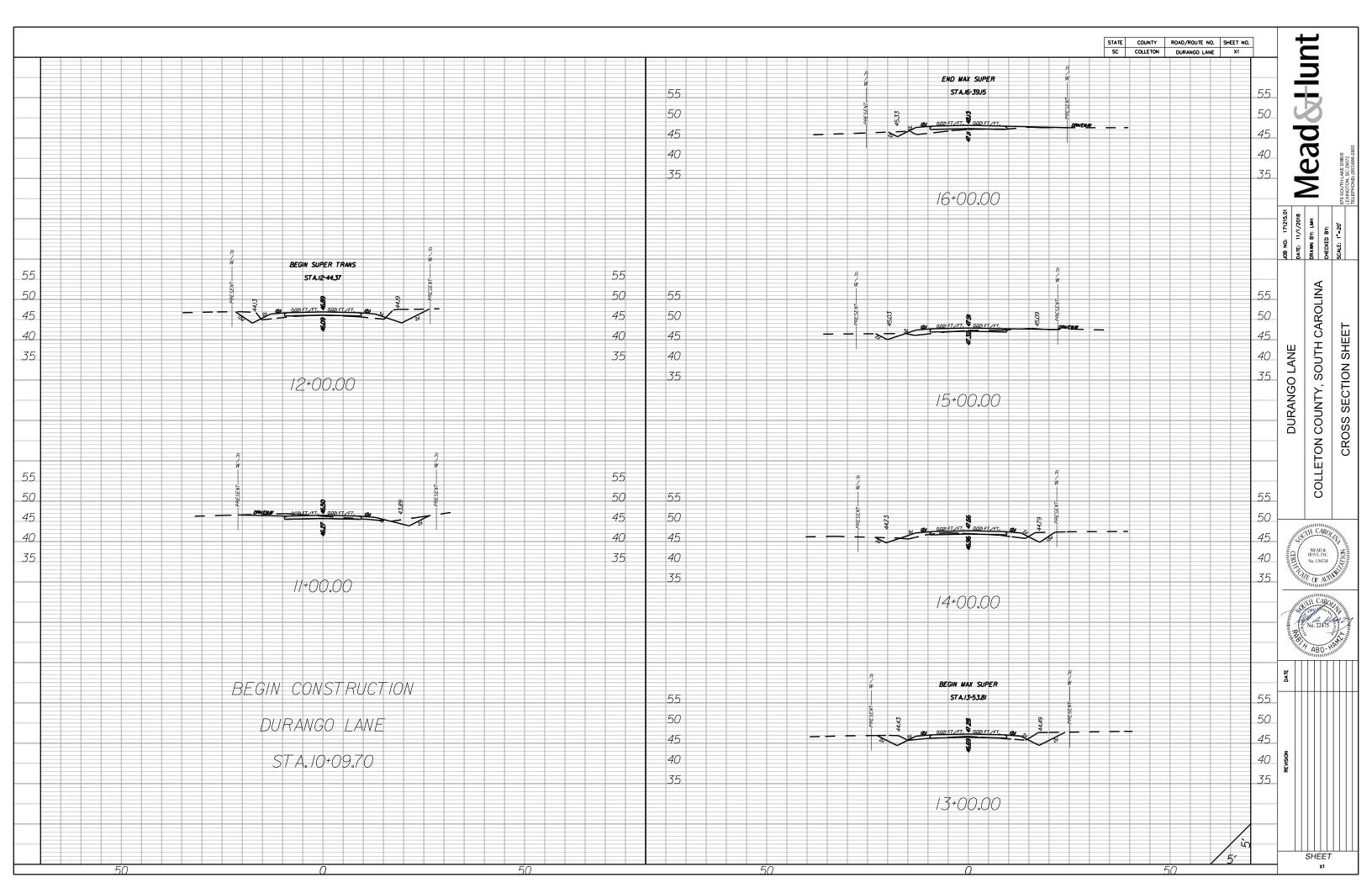


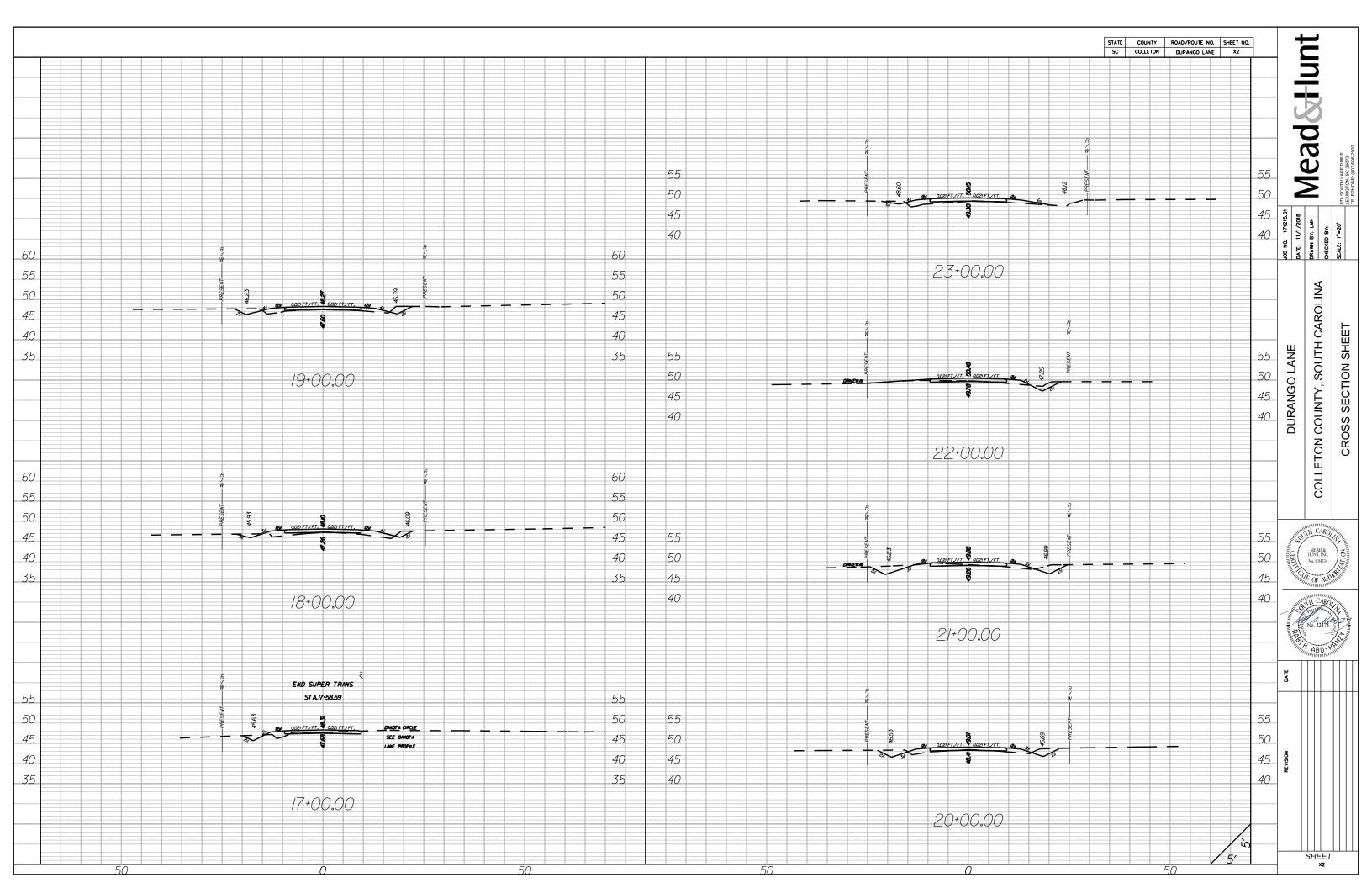


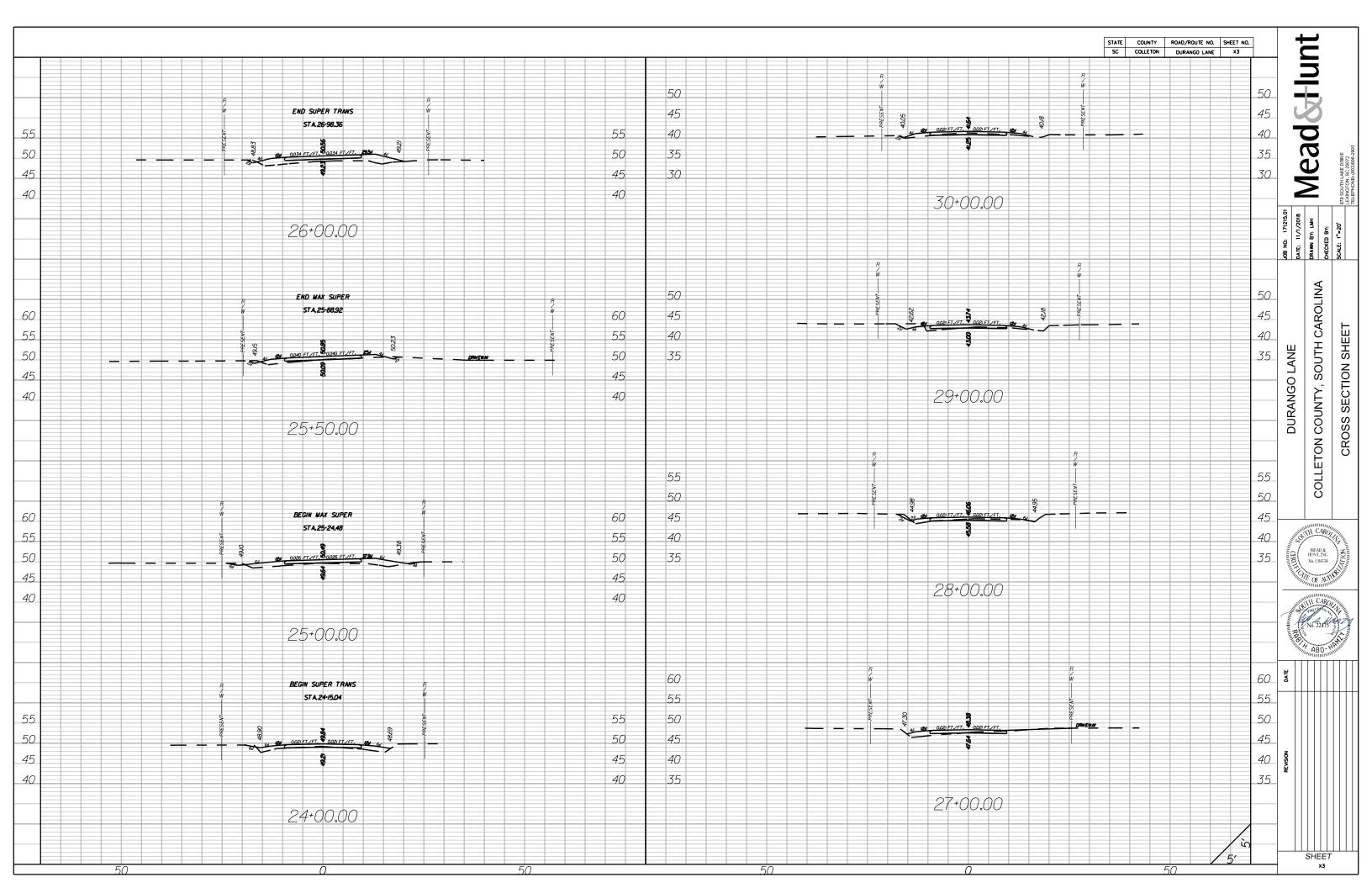


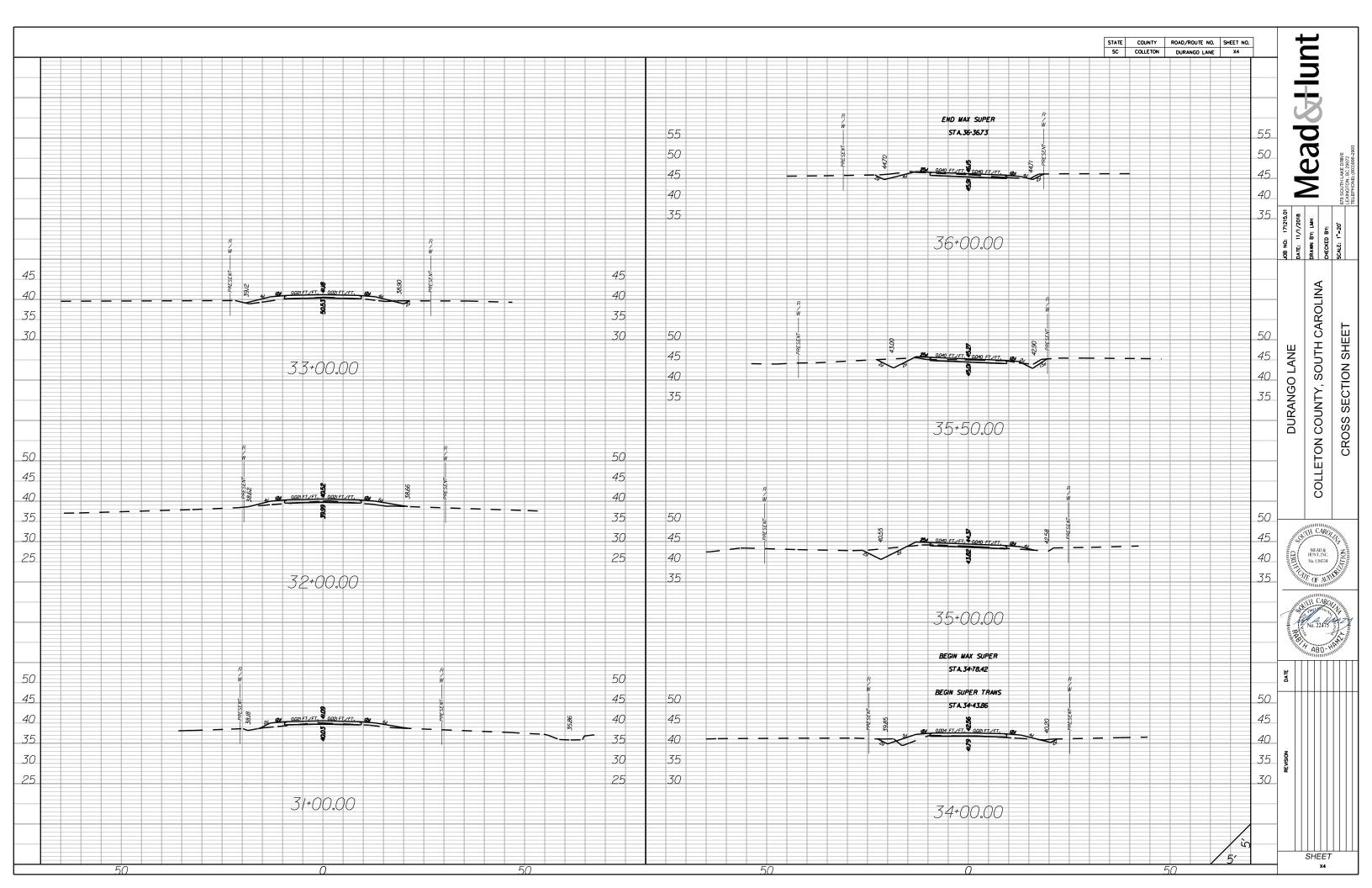


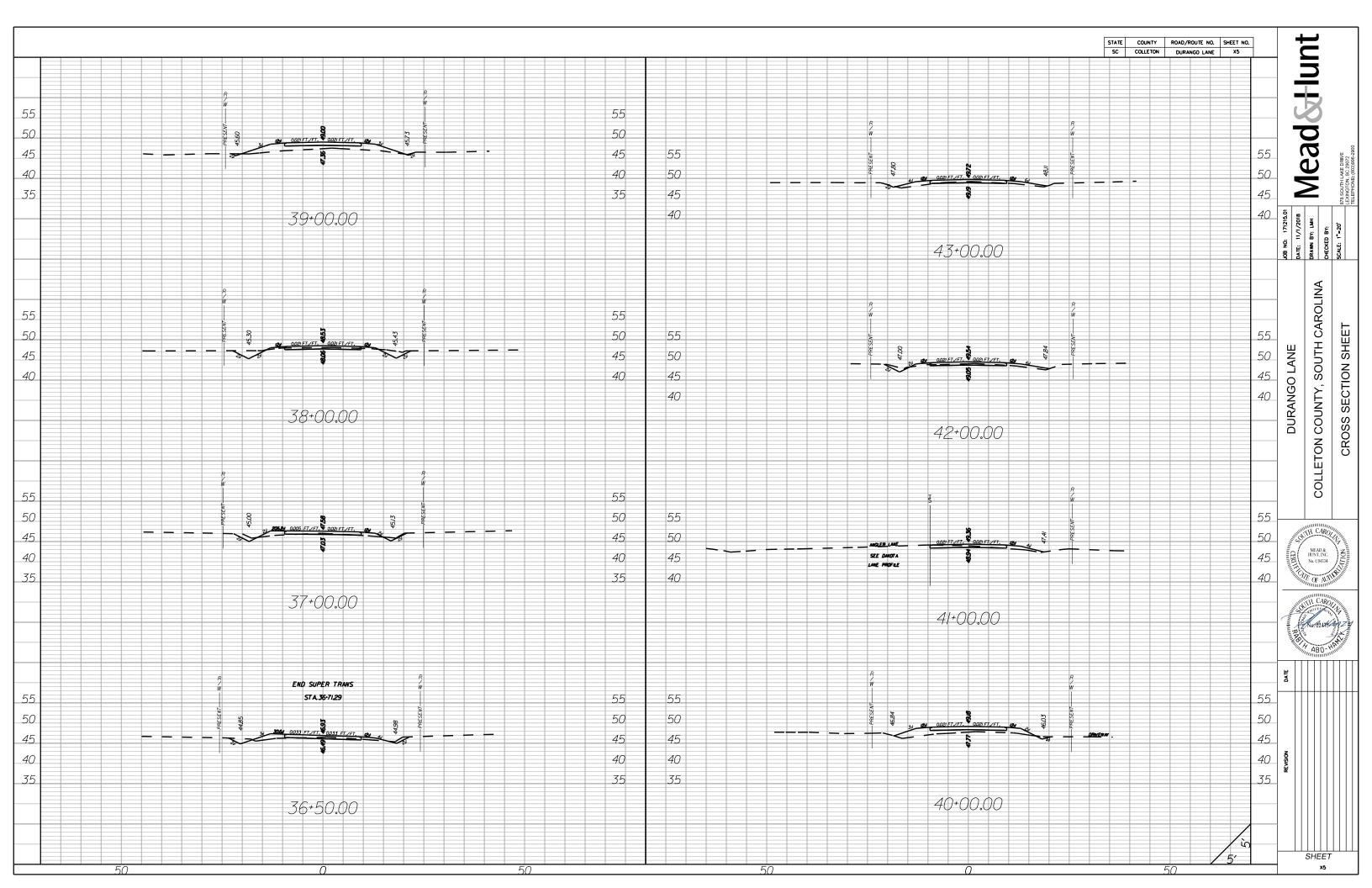


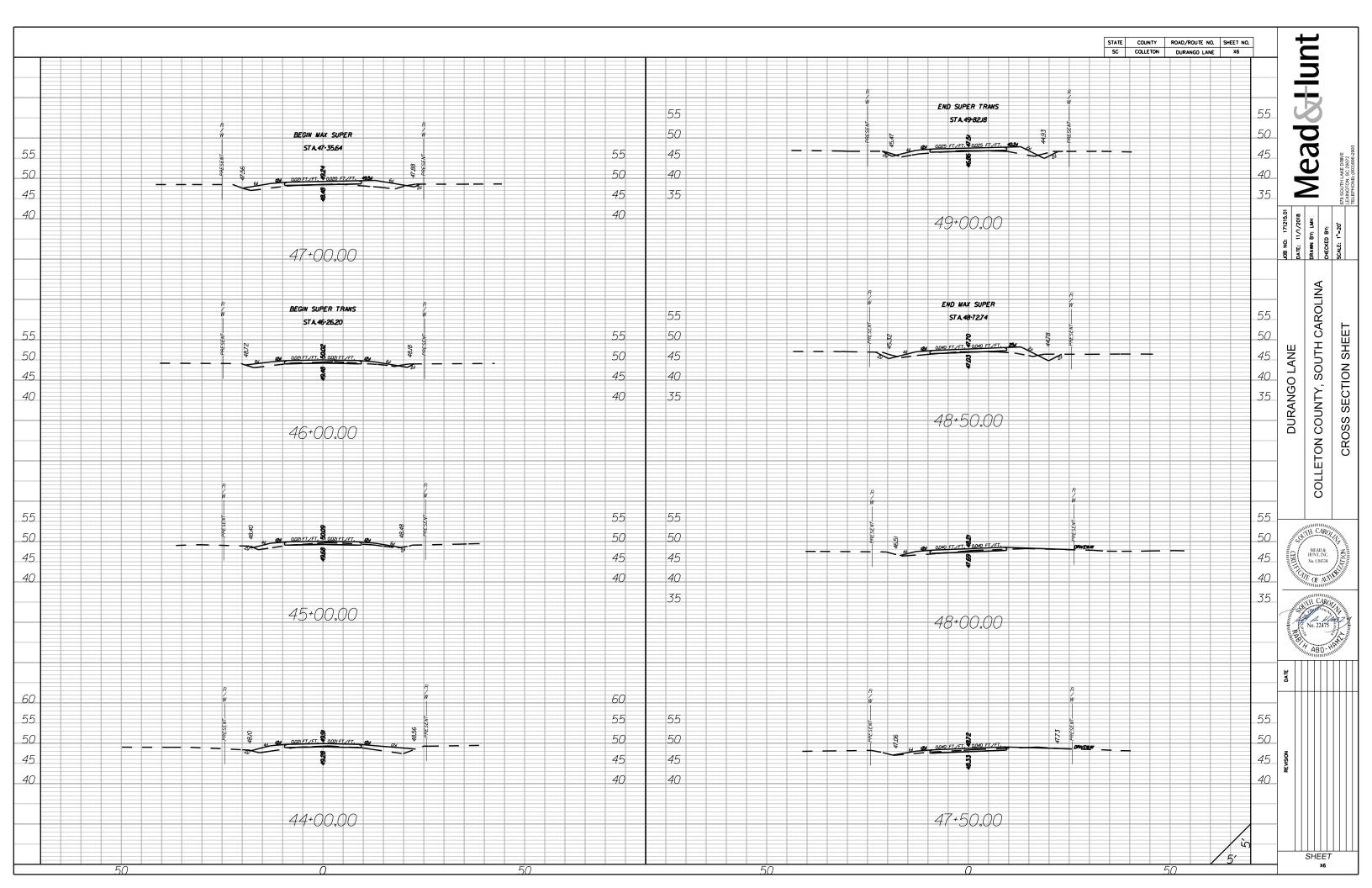


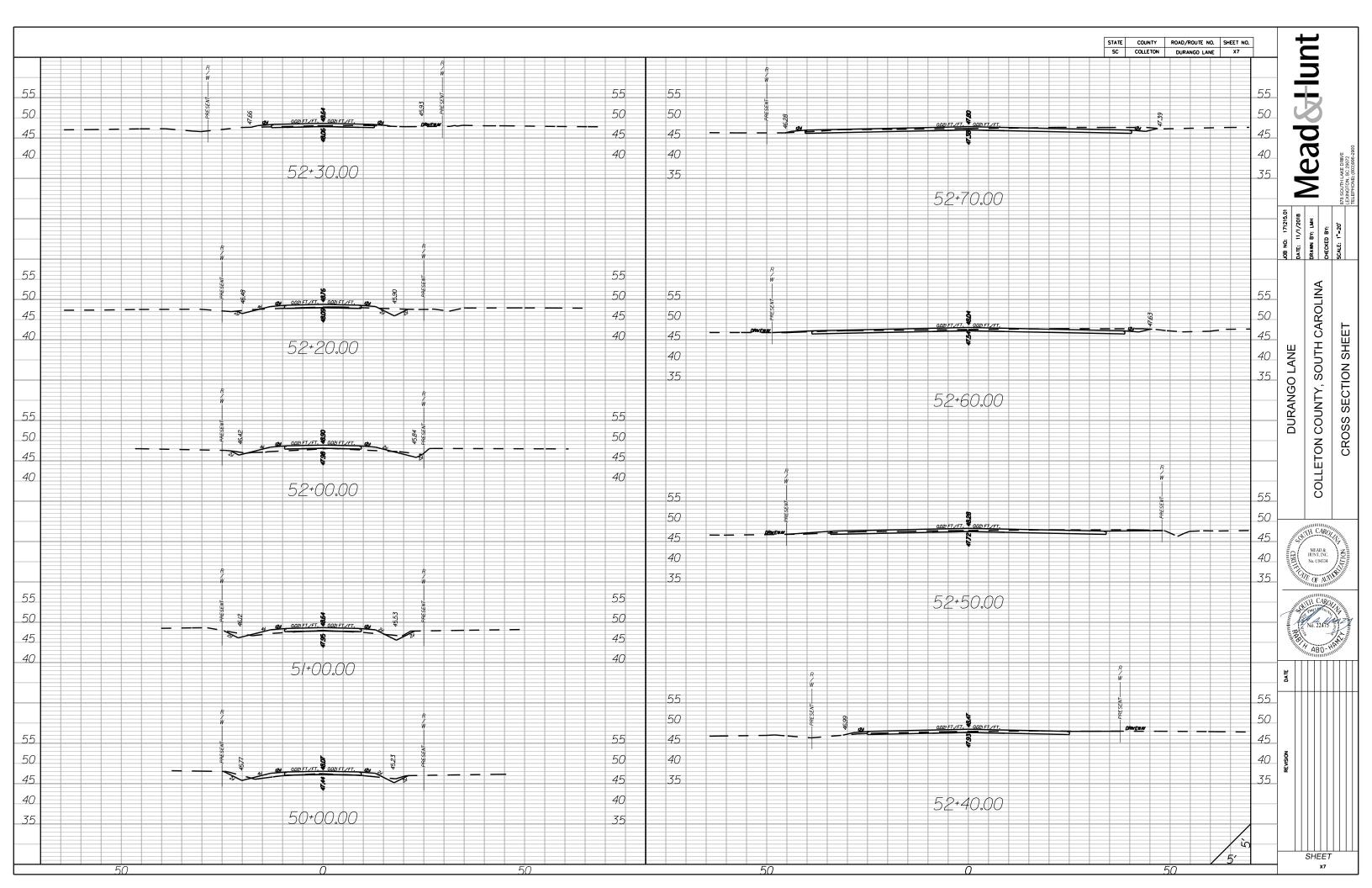


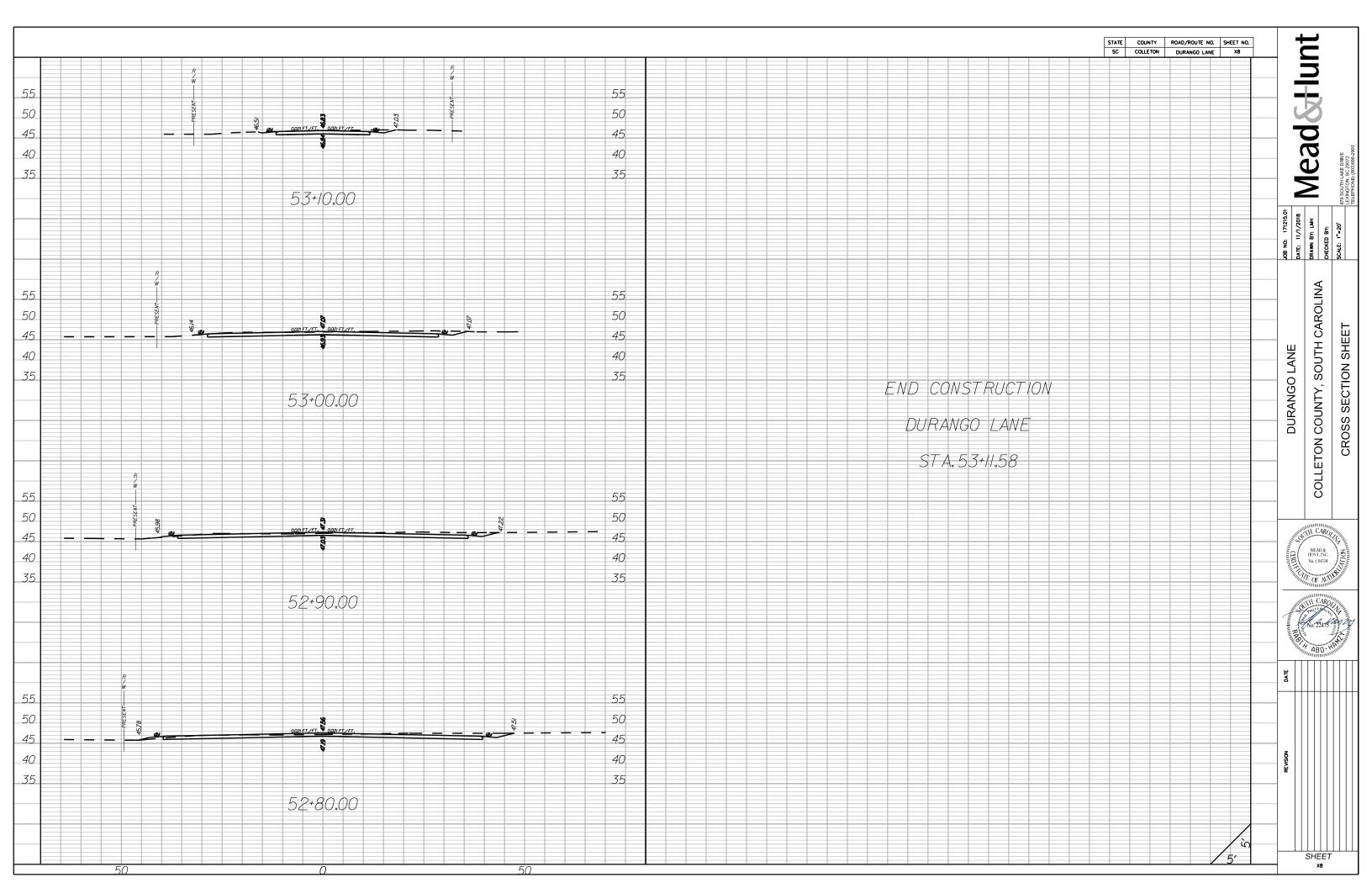


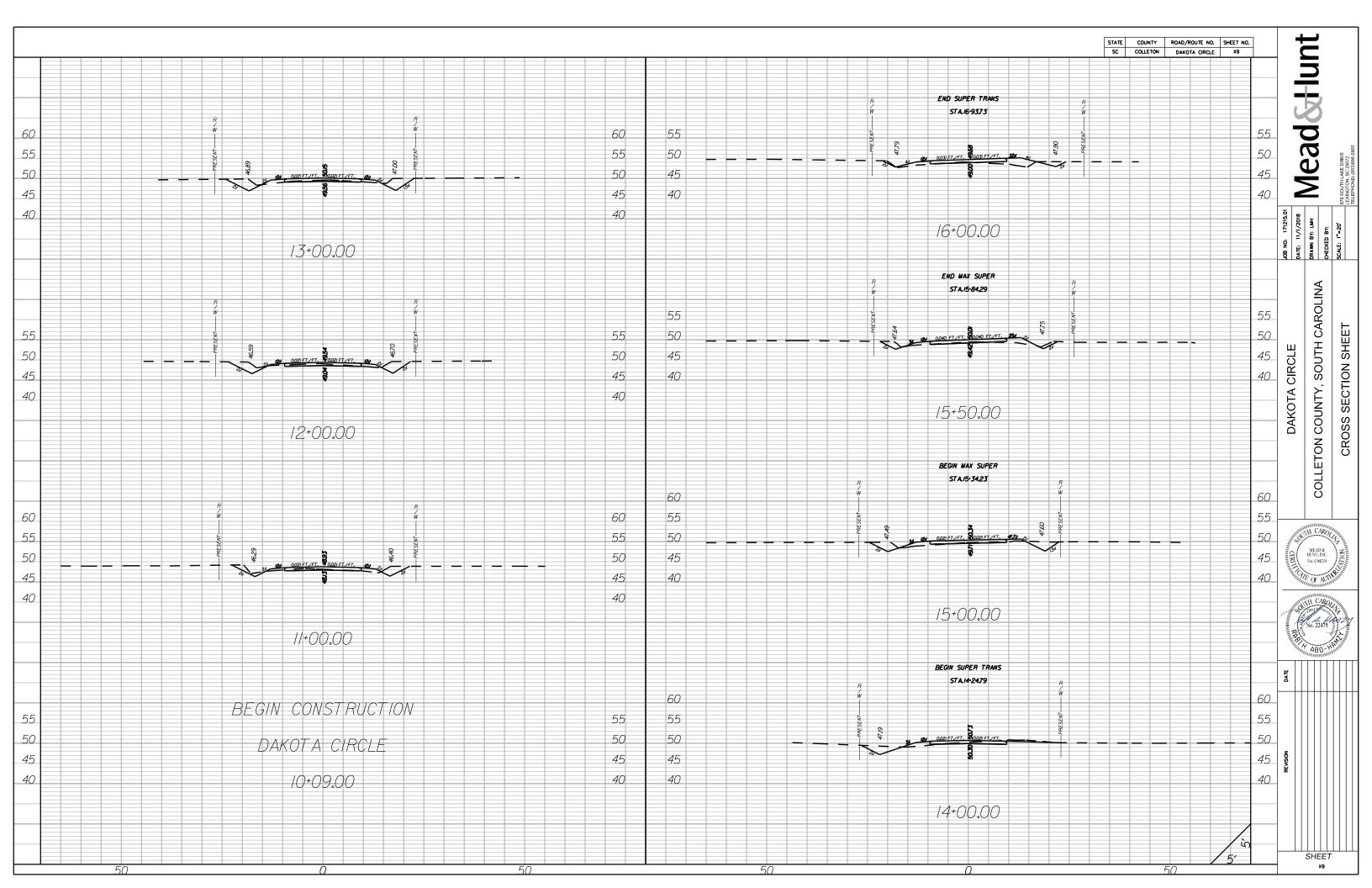


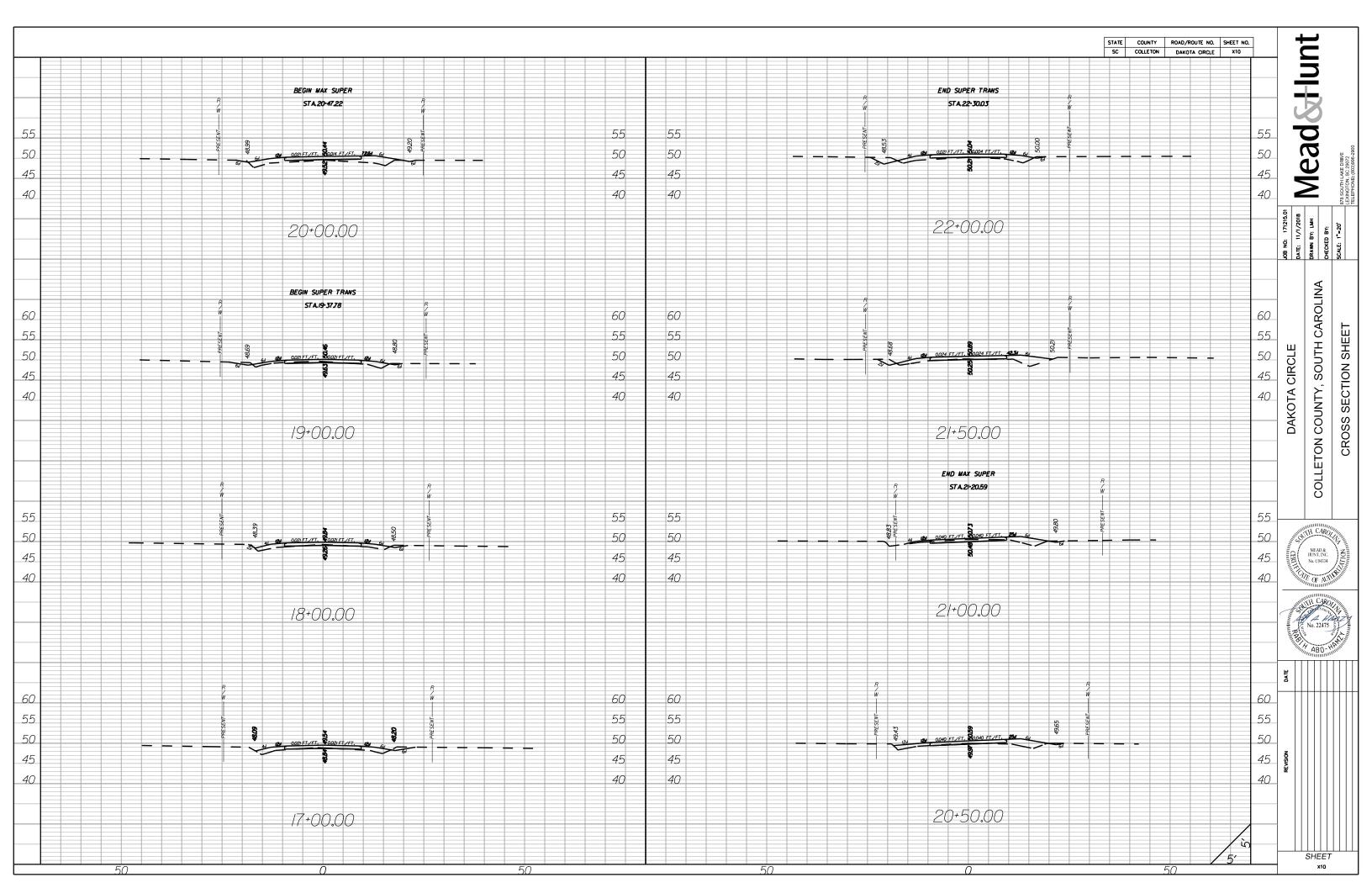


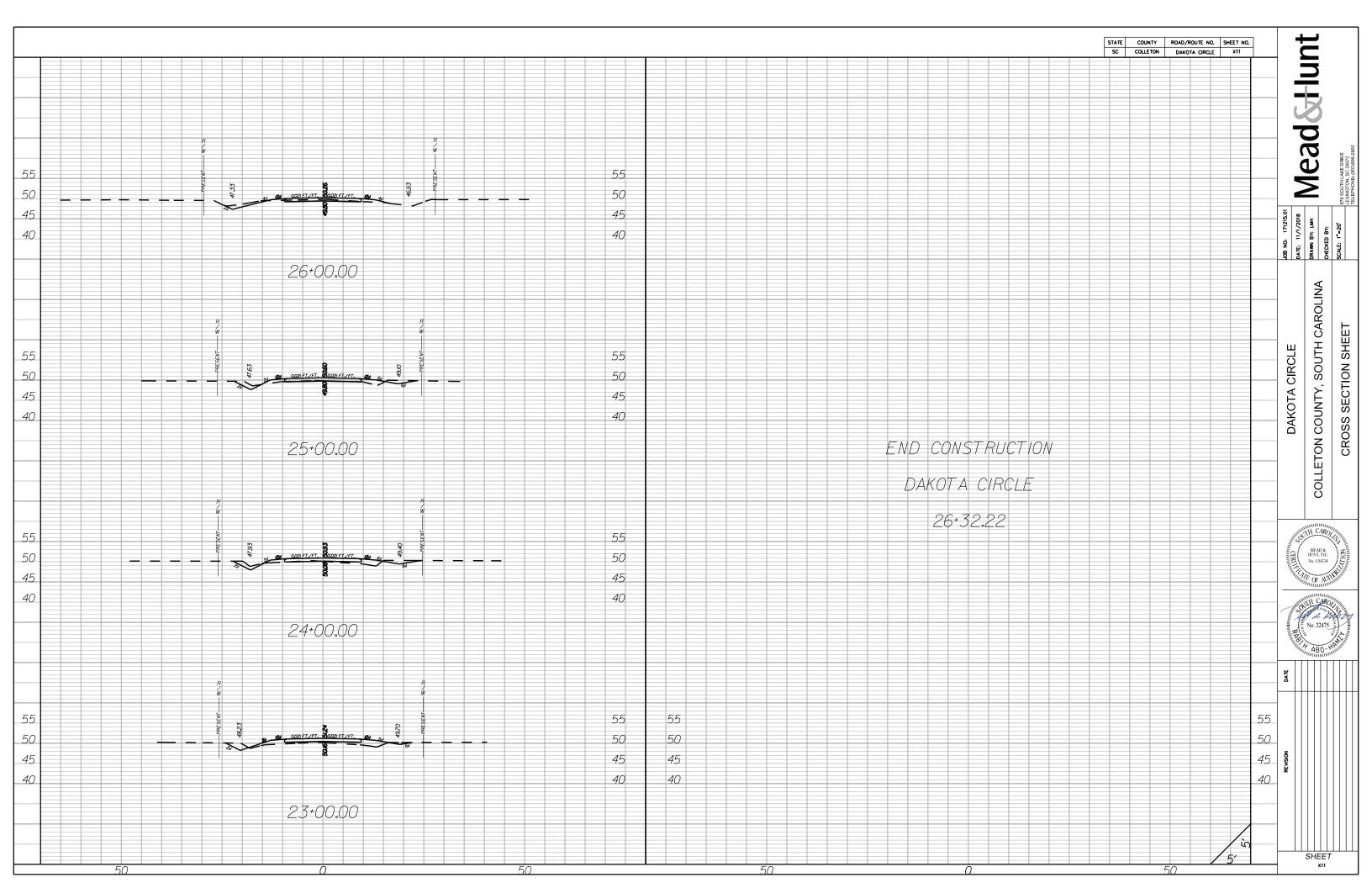


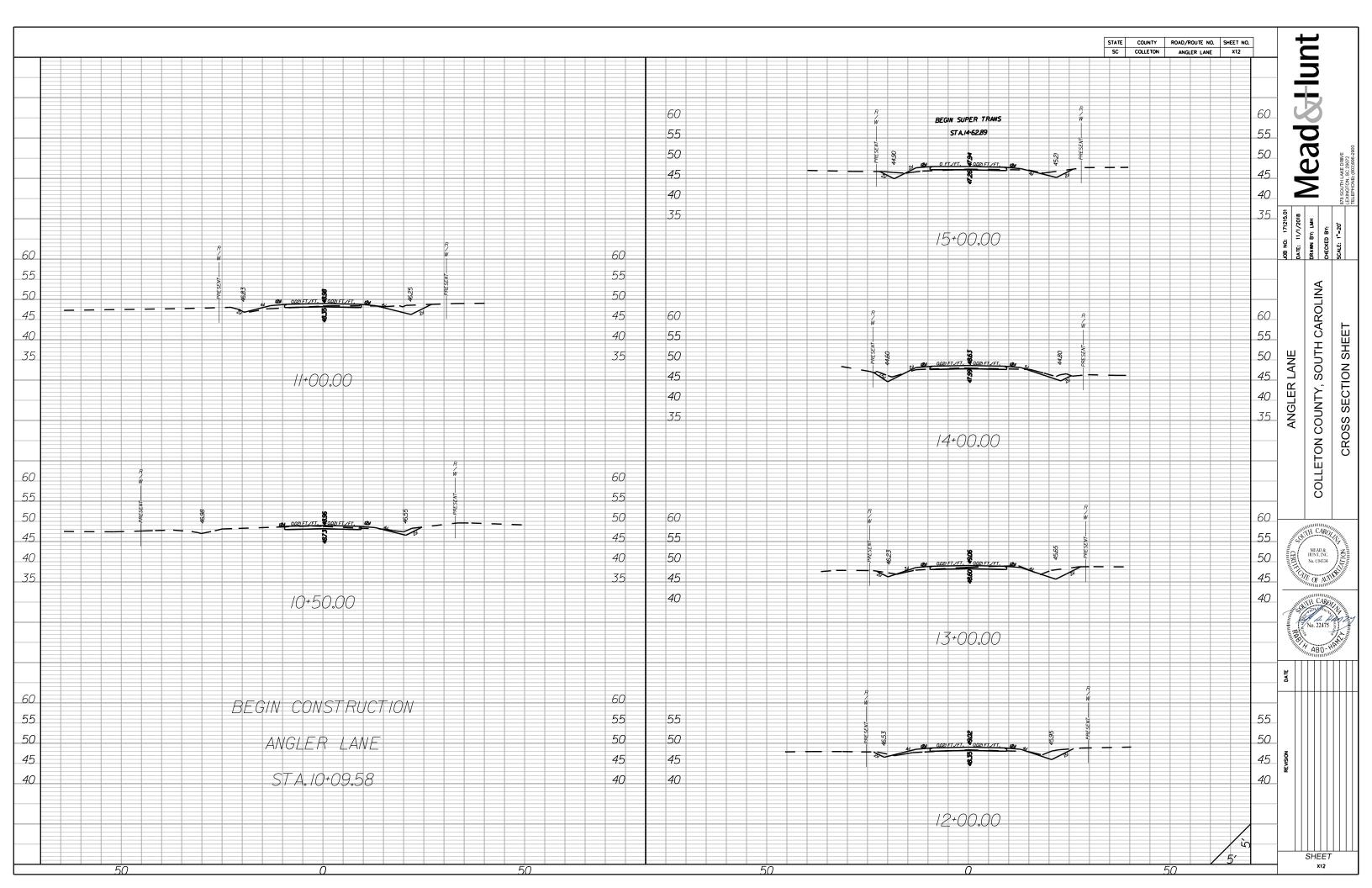


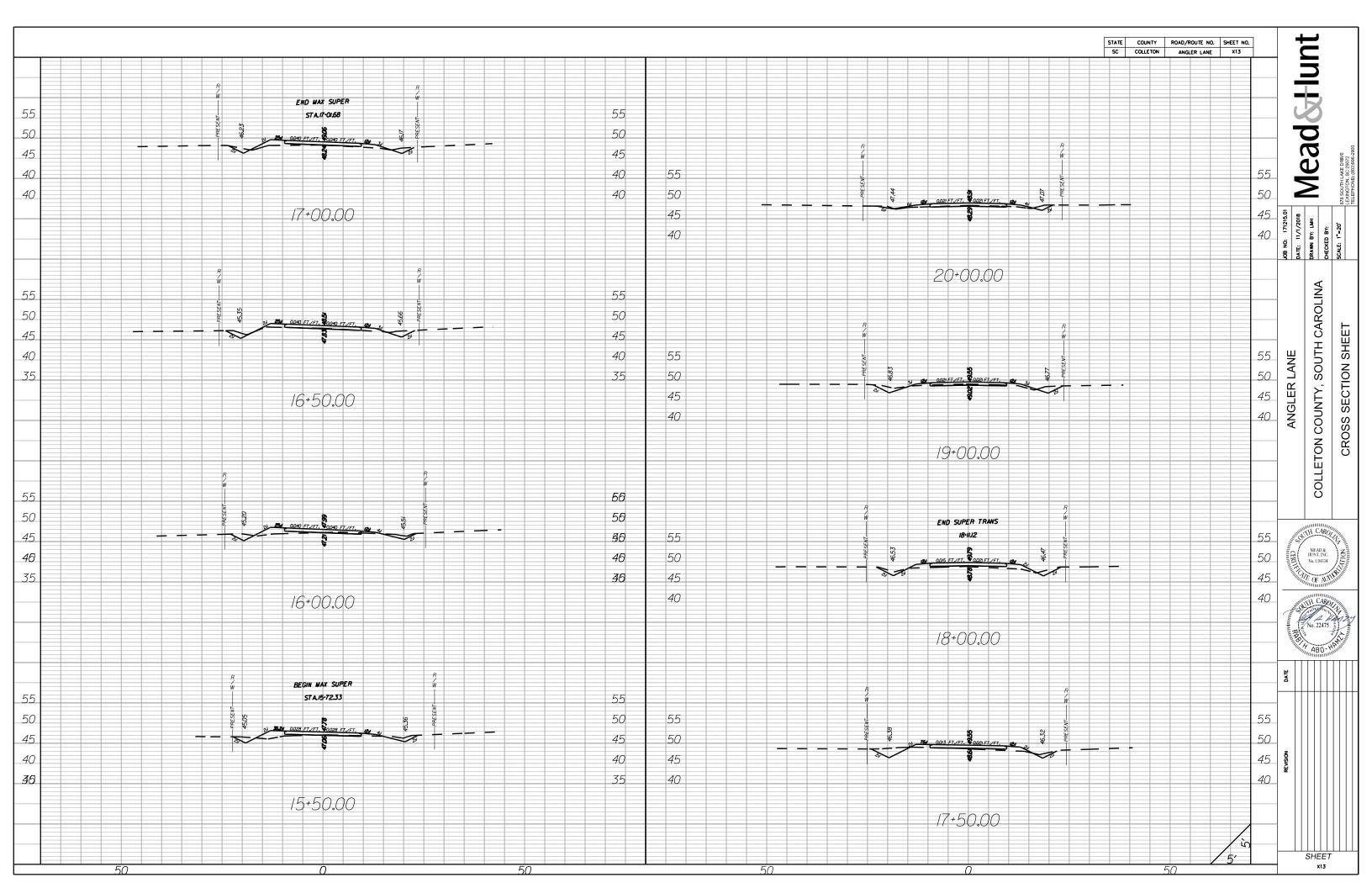


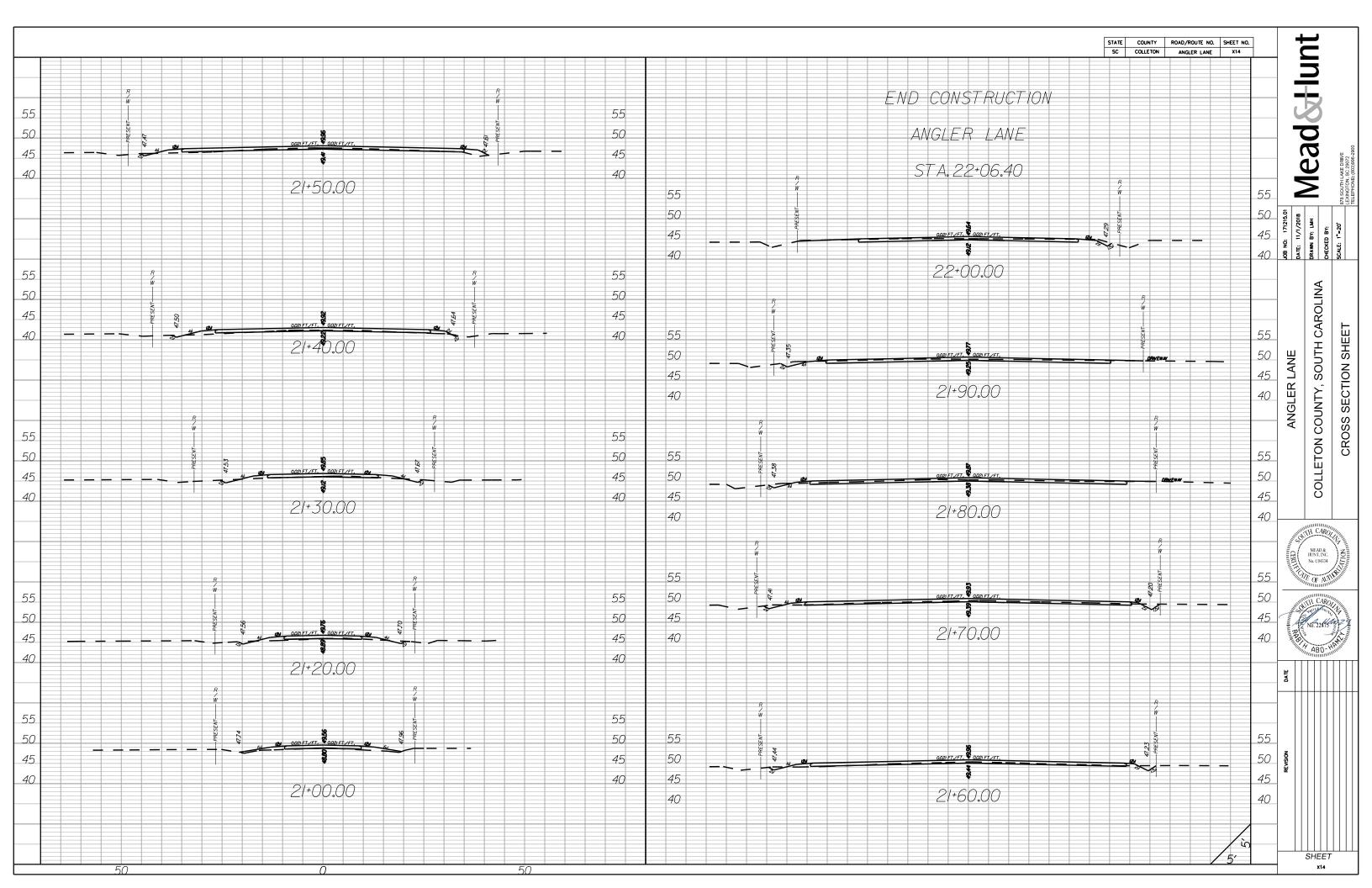












SHEET 36

ANGLER LANE CHAIN DATA

Beginning chain ARG_ALIGN description

Point 1 N 414,146.9750 E 2,149,263.4632 Sta 10+00.00 Course from 1 to PC ARG_ALIGN1 S 50° 23' 51.93" E Dist 34.1513

Curve ARG_ALIGN1 P.I. Station Delta = 23° 39′ 52.39° (LT) Degree = 57° 54′ 16.88° Tangent = 20.7296 Length = 40.8681 Radius = 98.9484 External = 2.1481 Long Chord = 40.5782 Mid. Ord. = 2.1025 Mid. Ord. = 2.1025 P.C. Statlon 10+34.15 N 414.125.2051 E 2.149.289,7764

2.1025 10+34.15 N 414,125,2051 E 2,149,289,7764 10+75.02 N 414,106,2988 E 2,149,325,6811 P.C. Station P.T. Station C.C. C.C. N 414,201.4437 E 2,149,352.8515 Back = \$ 50° 23' 51.93" E Ahead = \$ 74° 03' 44.32" E

Chord Bear = S 62° 13' 48.12" E

Course from PT ARG_ALIGN1 to PC ARG_ALIGN2 S 74° 03' 44.32" E Dist 469.3527

Curve Data

Curve ARG_ALIGN2
P.I. Station 16+75.01 N 413,941,5471 E 2,149,902,6057
Delta = 88° 44° 07.25° (RT)
Degree = 42° 54' 06,93°
Tangent = 130,6349
Length = 206,8330
Radtus = 133,5506
External = 53,2681
Long Chord = 186,7732 53.2681 186.7732

Long Chord =
Mid. Ord. =
P.C. Station
P.T. Station 180.7795 38.0796 15+44.37 N 413,977.4184 E 2,149,776.9923 17+51.21 N 413,815.1726 E 2,149,869.5155 N 413,849.0013 E 2,149,740,3204 C.C. N 41 Back = S 74° 03' 44.32" E Ahead = S 14° 40' 22.93" W

Chord Bear = S 29° 41' 40.69" E

Course from PT ARG_ALIGN2 to 2 S 14° 40' 22.93" W Dist 501.0616

Point 2 N 413.330.4521 E 2.149.742.5953 Sta 22+52.27

Ending chain ARG ALIGN description

DAKOTA CIRCLE CHAIN DATA

Beginning chain DKT_ALIGN description

Point 1 N 415,283.1726 E 2,150,626.3482 Sta 10+00.00

Course from 1 to PC DKT_ALIGN1 N 18° 28' 19.24" E Dist 510.2290

Curve DKT_ALIGN1
P.I. Station 15+72.60 N 415,826,2707 E 2,150,807.7713
Delta = 89° 51° 32.55° (LT)
Degree = 91° 38″ 17.89°
Tangent = 62.3702
Length = 98.0584
Radius = 62.5238
External = 25,7897
Long Chord = 88.3132
Mid. Ord. = 18.2585
P.C. Station 15+10.23 N 415,767.1139 E 2,150,788.0098
P.T. Station 16+08.29 N 415,846,1776 E 2,150,748.6633
C.C. N 415,786,9240 E 2,150,728.7073
Back = N 18° 28′ 19.24° E
Ahead = N 71° 23′ 13.30° W
Chord Bear = N 26° 27′ 27.03° W

Course from PT DKT_ALIGN1 to PC DKT_ALIGN2 N 71° 23' 13.30" W Dist 414.9320

Curve DKT_ALIGN2
P.I. Station 21+00.55 N 416,003.2959 E 2,150,282.1451
Delta = 90° 08° 27.45° (LT)
Degree = 74° 16° 18.04"
Tangent = 121,3665
Radius = 77.1435
External = 32.0883
Long Chord = 109.2315
Md, Ord. = 22,6620
P.C. Station 20+23.22 N 415,978.6131 E 2,150,355,4338
P.T. Station 21+44.59 N 415,999.9467 E 2,150,257.6427
C.C. N 415,905.5045 E 2,150,330.8116
Back = N 71° 23° 13,30° W
Chord Bear = S 63° 32° 32° 32° 97° W

Course from PT DKT ALIGN2 to 2 S 18° 28' 19.24" W Dist 496.6302

Point 2 N 415,458.9037 E 2,150,100.2897 Sta 26+41.22

Ending chain DKT ALIGN description

CONTROL POINTS

POINT	NORTHING	EASTING	ELEVATION	DESCRIPTION
17	414140.9	2149228	48.1509	CP-NAIL
21	414026.1	2149648	47.5377	CP-NAIL
22	413563.8	2149827	48.446	CP-NAIL

CONTROL POINTS

POINT	NORTHING	EASTING	ELEVATION	DESCRIPTION
1	415103.3	2151321	46.168	CP-NAIL
2 3	415832.8	2151467	49.9729	CP-NAIL
3	413189.1	2149052	47.7871	CP-NAIL
4	415157.1	2150984	46.9179	CP-NAIL
5	415833	2151467	49.9933	CP-NAIL FOUND
6	415325.8	2150585	47.9275	CP-NS
7	415439.1	2150105	49.4262	CP-NAIL
8	415679.4	2150747	49.5428	CP-NAIL
9	415845.6	2150676	49.184	CP-NAIL
10	415990.4	2150301	51.3277	CP-NAIL
11	415439.2	2150105	49.4511	CP-NAIL
12	415794.7	2150234	50.3825	CP-NAIL
13	415538.2	2149791	50.0948	CP-NAIL
14	414894.4	2149679	38.6217	CP-NAIL
15	414560.9	2149599	45.8559	CP-NAIL
16	415235.7	2149708	44.6818	CP-NAIL
17	414140.9	2149228	48.1509	CP-NAIL
18	413609.5	2148806	47.8703	CP-NAIL
19	413963.7	2149869	46.7379	CP-NAIL
20	413188.7	2149052	47.8503	CP-NAIL FOUND
21	414026.1	2149648	47.5377	CP-NAIL
22	413563.8	2149827	48.446	CP-NAIL
100	415430.8	2150105	49.8014	IP-1/2RBF
101	415828.1	2150808	49.3238	IP-5/8 RBF
102	415898.1	2150680	49.2098	IP-5/8 RBF
103	415672.7	2150781	50.09	IP-5/8 RBF
104	415328	2150665	48.6627	IP-5/8 RBF
105	415239.7	2150678	46.4804	IP-5/8 RBF

DURANGO LANE CHAIN DATA

Beginning chain DRG_ALIGN description

Point 9 N 415 099 5498 F 2 151 307 7814 Sta 10+00 00

Course from 9 to PC DRG_ALIGN1 N 76° 40' 55.46" W Dist 329.8114

Curve DRG_ALIGN1
P.I. Statlon
Defta = 4° 10° 00.49° (R1)
Degree = 1° 16° 0.012°
Tangent = 166.7412
Length = 333.354
Radius = 4,583.5407
External = 3,0319
Long Chord = 333.2619
Mid. Ord. = 3.029
P.C. Statlon 13+29.81 N 415,175.5232 E 2,150,986.8397
P.T. Statlon 16+63.15 N 415,269,5534 E 2,150,667.1181
C.C. N 419,616.9434 E 2,152,119.3735
Back = N 75° 41′ 41.25′ W
Ahead = N 71° 31′ 40.76′ W
Chord Bear = N 73° 46′ 41.00′ W Chord Bear = N 73° 36' 41.00" W

Course from PT DRG ALIGN1 to PC DRG ALIGN2 N 71° 31' 40.76" W Dist 837.3282

Curve DRG_ALIGN2
P.I. Station
Delta = 97* 40' 00.62" (LT)
Degree = 75.4406
Length = 112.4454
Radius = 65.9656
External = 34.2479
Long Chord = 99.3176
Mid. Ord. = 22.5437
P.C. Station
P.T. Station
P.T. Station
P.T. Station
C.C. N 415.472.5314 E 2,149.851.3107
Rade = N 70* 52' 05.82" W
Ahead = \$112.753.87" W Chord Bear = S 60° 17' 53.87" W

Course from PT DRG ALIGN2 to PI STA, 34+54,42 Dist 841,4957

Course from PI DRG_ALIGN2 to PC DRG_ALIGN3 8° 58' 38.69"

Curve DRG_ALIGN3
P.I. Station 35+59,60 N 414,558,4113 E 2,149,596,3762
Detre = 27°,28° 56,10° (RT)
Degree = 13° 19° 13,14°
Tangent = 105,1835
Length = 206,3183
Radius = 430,1883
External = 12,6788
Long Chord = 204,3462
Mid. Ord = 204,3462
Mid. Ord = 12,3110
P.C. Station 34+54,42 N 414,662,3064 E 2,149,612,7896
P.T. Station 34+54,42 N 414,473,8148 E 2,149,533,8701
C.C. N 414,729,4273 E 2,149,187,9205
Back = S 8° 58° 36,69° W
Ahead = S 36° 27° 34,79° W
Chord Bear = S 22° 43° 66,74′ W

Chord Bear = S 22° 43' 06.74" W

Course from PT DRG_ALIGN3 to PC DRG_ALIGN4 S 39° 36' 08.07" W Dist 1,050.9009

Curve DRG_ALIGN4
P.I. Station
Delta = 79° 14' 51.41" (LT)
Degree = 100.8048
Length = 110.8048
Length = 185.099
Radius = 133.8267
External = 39.9182
Long Chord = 170.8043
Mid. Ord = 30.7469
P.C. Station
P.T. Statio

Course from PT DRG ALIGN4 to 10 S 33° 16' 37.73" E Dist 483.2291

Point 10 N 413,089.4855 E 2,149,124.4359 Sta 53+79.96

Ending chain DRG_ALIGN description

CONTROL POINTS

POINT	NORTHING	EASTING	ELEVATION	DESCRIPTION	
1	415103.3	2151321	46.168	CP-NAIL	
3	413189.1	2149052	47.7871	CP-NAIL	
4	415157.1	21509848	46.9179	CP-NAIL	
6	415325.8	2150585	47.9275	CP-NS	
13	415538.2	2149791	50.0948	CP-NAIL	
14	414894.4	2149679	38.6217	CP-NAIL	
15	414560.9	2149599	45.8559	CP-NAIL	
16	415235.7	2149708	44.6818	CP-NAIL	
17	414140.9	2149228	48.1509	CP-NAIL	
18	413609.5	2148806	47.8703	CP-NAIL	
20	413188.7	2149052	47.8503	CP-NAIL FOUND	