



**ST. TAMMANY PARISH**

MICHAEL B. COOPER  
PARISH PRESIDENT

**NOTICE TO BIDDERS**

Sealed bids will be received by the Department of Procurement, until **2:00 p.m., Thursday, June 24, 2021**, and then opened and read publicly at that time by the Procurement Staff for the, following project:

**Bid #21-20-2 – LA 1077/ LA 21 Connector Road**

Each paper bid must be submitted in a sealed envelope. The outside of the envelope shall show the Name and Address of the Bidder, the State Contractor's License Number of the Bidder (if the work is estimated at \$50k or more), the Project Name and the Bid Number.

**The project classification is:**

**Highway, Street & Bridge**

This Bid package is available online at <http://www.stpgov.org/> or at [www.bidexpress.com](http://www.bidexpress.com).

It is the Vendor's responsibility to check the Parish website frequently for any possible addenda that may be issued. The Parish is not responsible for a Vendor's failure to download any addenda documents required to complete a submission.

**A mandatory pre-bid conference will be held at 10:30 am CST/CDT on Tuesday, June 8, 2021, at 21454 Koop Dr Mandeville, LA 70471. Building B 3<sup>rd</sup> Floor Staff Conference Room.**

Bids will be received at 21454 Koop Dr., Suite 2F, Mandeville, LA 70471 from each bidder or his agent and given a written receipt, by certified mail with return receipt requested, or electronically at [www.bidexpress.com](http://www.bidexpress.com).

**Due to the COVID-19 pandemic, and in an effort to help slow the spread of the virus, Openings will take place outside at the "Pavilion" of Building B located at 21454 Koop Drive, Mandeville, La. 70471. Any questions regarding this should be directed to the Department of Procurement via email at [purchasing@stpgov.org](mailto:purchasing@stpgov.org). Please call the Procurement office at 985-898-2520 and we will meet you at the front entrance of Building B to collect bids and issue a receipt.**

Procurement Department

# **BID PROPOSAL**

ST. TAMMANY PARISH  
GOVERNMENT



BID PACKAGE FOR

## **LA 1077 / LA 21 CONNECTOR ROAD**

BID NO.: 21-20-2

April 29, 2021



## Section 01

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## Section 02

### Instructions to Bidders

Bidders are urged to promptly review the requirements of this specification and submit questions for resolution as early as possible during the bid period. Questions or concerns must be submitted in writing to the Procurement Department no later than 2:00 CST seven (7) working days prior to the bid opening date. Otherwise, this will be construed as acceptance by the bidders that the intent of the specifications is clear and that competitive bids may be obtained as specified herein. Protests with regard to the specification documents will not be considered after bids are opened.

1. Bid security is required. Be sure that your bid includes such security as is necessary to meet Parish requirements and is properly signed. The bid must be fully completed. All applicable Louisiana license numbers must be affixed.
2. The Owner is the St. Tammany Parish Government (the “Parish”).
3. The terms “he/his” and “it/its” may be used interchangeably.
4. The terms “Owner,” the “Parish,” and “St. Tammany Parish” may be used interchangeably.
5. The successful Bidder understands the limited contract time in the contract is **360 Calendar Days**, and shall submit any request for an extension of time in accordance with the General and Supplementary Conditions. Said request will reflect the days requested and the reason for same. No extension request is guaranteed or absolute.
6. Bidder specifically understands that acknowledgment of the General Conditions is required. Bidder specifically understands that signature of receipt of the General Conditions is mandated. **The Bidder’s signature on the “Louisiana Uniform Public Work Bid Form” will serve as acknowledgment of the Bidder’s receipt and understanding of the General Conditions as well as any Supplementary Conditions.**
7. ***If any additional work is performed by the contractor without written approval by owner, the cost of the work will be borne by the contractor and will not be reimbursed by the Parish.***
8. **Only** the Louisiana Uniform Public Bid Form, the Unit Price Form (if necessary), the bid security, and written evidence of authority of person signing the bid shall be submitted on or before the bid opening time and date provided for in the Bid Documents. Necessary copies of the Louisiana Uniform Public Work Forms and Unit Price Forms (if necessary) will be furnished for Bidding. Bound sets of the Contract Documents are for Bidder’s information and should not be used in submitting Bids.
9. All other documents and information required are to be submitted by the low Bidder within ten (10) days after the opening of the bids, and at the same time of day and location as given for the opening of the bids in the Bid Documents.

10. Each Bid must be submitted in a sealed envelope, unless submitted electronically. The outside of the envelope shall show the name and address of the Bidder, the State Contractor's License Number of the Bidder (if work requires contractor's license), and the Project name and the Bid number. In the case of an electronic bid proposal, a contractor may submit an authentic digital signature on the electronic bid proposal accompanied by the contractor's license number, Project name and the Bid number.
11. The price quoted for the Work shall be stated in words and figures on the Bid Form, and in figures only on the Unit Price Form. The price in the Bid shall include all costs necessary for the complete performance of the Work in full conformity with the conditions of the Contract Documents, and shall include all applicable Federal, State, Parish, Municipal or other taxes. The price bid for the items listed on the Unit Price Form will include the cost of all related items not listed, but which are normally required to do the type of Work bid.
12. The Bid shall be signed by the Bidder. The information required on the Louisiana Uniform Public Work Bid Form must be provided. Evidence of agency, corporate, or partnership authority is required and shall be provided in conformance with LSA-R.S. 38:2212(B).
13. Only a Contractor licensed by the State to do the type of Work as indicated on the Notice to Bidders can submit a Bid. The Bidder's signature on the Bid Form certifies that he holds an active license under the provisions of Chapter 24 of Louisiana Revised Statutes Title 37. Failure to be properly licensed constitutes authority for the Owner to reject the Bid.
14. Bidders shall not attach any conditions or provisions to the Bid. Any conditions or provisions so attached may, at the sole option of the Owner, cause rejection of the Bid.
15. A Bid Guarantee of five percent (5%) of the amount of the total Bid, including Alternates, must accompany the Proposal and, at the option of the Bidder, may be a cashier's check, certified check or a satisfactory Bid Bond. The Bid Guarantee must be attached to the Louisiana Uniform Public Work Bid Form. No Bid will be considered unless it is so guaranteed. Cashier's check or certified check must be made payable to the order of the Owner. Cash deposits will not be accepted. The Owner reserves the right to cash or deposit the cashier's check or certified check. Such guarantees shall be made payable to the Parish of St. Tammany. In accordance with LSA-R.S. 38:2218(C), if a bid bond is used, it shall be written by a surety or insurance company currently on the U.S. Department of the Treasury Financial Management Service list of approved bonding companies which is published annually in the Federal Register, or by a Louisiana domiciled insurance company with at least an A- rating in the latest printing of the A.M. Best's Key Rating Guide to write individual bonds up to ten percent of policyholders' surplus as shown in the A.M. Best's Key Rating Guide or by an insurance company in good standing licensed to write bid bonds which is either domiciled in Louisiana or owned by Louisiana residents. It is **not** required to be on any AIA form.
16. Bid securities of the three (3) lowest Bidders will be retained by the Owner until the Contract is executed or until final disposition is made of the Bids submitted. Bid securities of all other Bidders will be returned promptly after the canvas of Bids. Bids shall remain binding for forty-five (45) days after the date set for Bid Opening. The Parish shall act within the forty-five (45) days to award the contract to the lowest responsible bidder or reject all bids. However, the Parish and the lowest responsible bidder, by mutual written consent, may agree to extend the deadline for award by one or more extensions of thirty

- (30) calendar days. In the event the Owner issued the Letter of Award during this period, or any extension thereof, the Bid accepted shall continue to remain binding until the execution of the Contract.
17. A Proposal may be withdrawn at any time prior to the scheduled closing time for receipt of Bids, provided the request is in writing, executed by the Bidder or its duly authorized representative and is filed with the Owner prior to that time. When such a request is received, the Proposal will be returned to the Bidder unopened. A bid withdrawn under the provisions of LSA-R.S. 38:2214(C) cannot be resubmitted.
  18. Written communications, over the signature of the Bidder, to modify Proposals will be accepted and the Proposal corrected in accordance therewith if received by the Owner prior to the scheduled closing time for receipt of Bids. Oral, telephonic or telegraphic Modifications will not be considered.
  19. No oral interpretation obligating the Owner will be made to any Bidder as to the meaning of the Drawings, Specifications and Contract Documents. Every request for such an interpretation shall be made in writing and addressed and forwarded to the Owner. Inquiries received within seven (7) days prior to the day fixed for opening of the Bids may not be given consideration. Every interpretation made to the Bidder shall be in the form of an addendum to the Specifications. All such Addenda shall become part of the Contract Documents. Failure of the Owner to send or failure of Bidder to receive any such interpretation shall not relieve any Bidder from any obligation under this Bid as submitted without Modification. All Addenda shall be issued in accordance with the Public Bid Law, LSA-R.S. 38:2212(O).
  20. The Owner reserves the right to reject any or all Bids for just cause in accordance with the Public Bid Law, LSA-R.S. 38:2214(B). Incomplete, informal, illegible, or unbalanced Bids may be rejected. Reasonable grounds for belief that any one Bidder is concerned directly or indirectly with more than one Bid will cause rejection of all Bids wherein such Bidder is concerned. If required, a Bidder shall furnish satisfactory evidence of its competence and ability to perform the Work stipulated in its Proposal. Incompetence will constitute cause for rejection. If the Parish determines that the bidder is not responsive or responsible for any reason whatsoever, the bid may be rejected in accordance with State law.
  21. The Contractor shall indemnify and hold harmless the Owner from any and all suits, costs, penalties or claims for infringement by reason of use or installation of any patented design, device, material or process, or any trademark and copyright in connection with the Work agreed to be performed under this Contract, and shall indemnify and hold harmless the Owner for any costs, expenses and damages which it may be obliged to pay by reason of any such infringement at any time during the prosecution or after completion of the Work.
  22. Bidders shall familiarize themselves with and shall comply with all applicable Federal and State Laws, municipal ordinances and the rules and regulations of all authorities having jurisdiction over construction of the Project, which may directly or indirectly affect the Work or its prosecution. These laws and/or ordinances will be deemed to be included in the Contract, as though herein written in full.
  23. Each Bidder shall visit the site of the proposed Work and fully acquaint itself with all surface and subsurface conditions as they may exist so that it may fully understand this

Contract. Bidder shall also thoroughly examine and be familiar with drawings, Specifications and Contract Documents. The failure or omission of any Bidder to receive or examine any form, instrument, Drawing or document or to visit the site and acquaint itself with existing conditions shall in no way relieve any Bidder from any obligation with respect to its Bid and the responsibility in the premises.

24. The standard contract form enclosed with the Proposal documents is a prototype. It is enclosed with the Contract Documents for the guidance of the Owner and the Contractor. It has important legal consequences in all respects and consultation with an attorney is encouraged. Contractor shall be presumed to have consulted with its own independent legal counsel.
25. When one set of Contract plans show the Work to be performed by two or more prime Contractors, it is the responsibility of each Bidder to become knowledgeable of the Work to be performed by the other where the Work upon which this bid is submitted is shown to come into close proximity or in conflict with the Work of the other. In avoiding conflicts, pressure pipe lines must be installed to avoid conflict with gravity pipe lines and the Bidder of the smaller gravity pipe line in conflict with the larger gravity pipe line must include in his Bid the cost of a conflict box at these locations. The location of and a solution to the conflicts do not have to be specifically noted as such on the plans.
26. Bidder shall execute affidavit(s) attesting compliance with LSA-R.S. 38:2212.10, 38:2224, 38:2227, each as amended, and other affidavits as required by law, prior to execution of the contract.
27. Sealed Bids shall be delivered to St. Tammany Parish Government at the office of **St. Tammany Parish Government, Department of Procurement, 21454 Koop Drive, Suite 2-F, Mandeville, LA 70471**, and a receipt given, until the time and date denoted in Notice to Bidders, at which time and place the Bids shall be publicly opened and read aloud to those present. In accordance with LSA-R.S. 38:2212(H), the designer's final estimated cost of construction shall be read aloud upon opening bids. Sealed Bids may also be mailed by certified mail to **St. Tammany Parish Government, Department of Procurement, 21454 Koop Drive, Suite 2-F, Mandeville, LA 70471**, and must be received before the bid opening. Bids may also be submitted electronically. Information concerning links for electronic bidding is contained in the Notice to Bidders. It is the responsibility of the Bidders to insure that bids are delivered in a timely fashion. **Late bids, regardless of reason, will not be considered, and will be returned to bidder.**
28. Paper bids shall be placed in a sealed envelope, marked plainly and prominently as indicated in the Notice to Bidders, and these Instructions, and addressed:

**St. Tammany Parish Government  
Department of Procurement  
21454 Koop Drive, Suite 2-F  
Mandeville, LA 70471**

29. Complete sets of Drawings, Specifications and Contract Documents may be secured at the Office of the Owner. See Notice to Bidders for deposit schedule and availability via electronic methods.

30. The successful Bidder shall be required to post in each direction a public information sign, 4' x 8' in size, at the location of the project containing information required by the Owner. The Owner shall supply this information.
31. The award of the Contract, if it is awarded, will be to the lowest responsible Bidder, in accordance with State Law. No award will be made until the Owner has concluded such investigations as it deems necessary to establish the responsibility, qualifications, and financial ability and stability of the Bidder to do the Work in accordance with the Contract Documents to the satisfaction of the Owner within the time prescribed as established by the Department based upon the amount of work to be performed and the conditions of same. The written contract and bond shall be issued in conformance with LSA-R.S. 38:2216. If the Contract is awarded, the Owner shall give the successful Bidder written notice of the award within forty-five (45) calendar days after the opening of the Bids in conformance with LSA-R.S. 38:2215(A), or any extension as authorized thereunder.
32. At least three days prior to the execution of the Contract, the Contractor shall deliver to the Owner the required Bonds.
33. Failure of the successful Bidder to execute the Contract and deliver the required Bonds within twenty (20) days of the Notice of the Award shall be just cause for the Owner to annul the award and declare the Bid and any guarantee thereof forfeited. Award may then be made to the next lowest responsible bidder.
34. In order to ensure the faithful performance of each and every condition, stipulation and requirement of the Contract and to indemnify and hold harmless the Owner from any and all damages, either directly or indirectly arising out of any failure to perform same, the successful Bidder to whom the Contract is awarded shall furnish a Performance and Payment Bond in an amount of at least equal to one hundred percent (100%) of the Contract Price. The Contract shall not be in force or binding upon the Owner until such satisfactory Bond has been provided to and approved by the Parish. The cost of the Bond shall be paid for by the Contractor unless otherwise stipulated in the Special Provisions.
35. No surety Company will be accepted as a bondsman which has no permanent agent or representative in the State upon whom notices referred to in the General Conditions of these Specifications may be served. Service of said notice on said agent or representative in the State shall be equal to service of notice on the President of the Surety Company, or such other officer as may be concerned.
36. In conformance with LSA-R.S. 38:2219(A)(1)(a), (b), and (c):  
  
Any surety bond written for a public works project shall be written by a surety or insurance company currently on the U.S. Department of the Treasury Financial Management Service list of approved bonding companies which is published annually in the Federal Register, or by a Louisiana domiciled insurance company with at least an A- rating in the latest printing of the A.M. Best's Key Rating Guide, to write individual bonds up to ten percent of policyholders' surplus as shown in the A.M. Best's Key Rating Guide or by an insurance company that is either domiciled in Louisiana or owned by Louisiana residents and is licensed to write surety bonds.

For any public works project, no surety or insurance company shall write a bond which is in excess of the amount indicated as approved by the U.S. Department of the Treasury Financial Management Service list or by a Louisiana domiciled insurance company with an A- rating by A.M. Best up to a limit of ten percent of policyholders' surplus as shown by A.M. Best; companies authorized by this Paragraph who are not on the treasury list shall not write a bond when the penalty exceeds fifteen percent of its capital and surplus, such capital and surplus being the amount by which the company's assets exceed its liabilities as reflected by the most recent financial statements filed by the company with the Department of Insurance.

In addition, any surety bond written for a public works project shall be written by a surety or insurance company that is currently licensed to do business in the state of Louisiana. All contractors must comply with any other applicable provisions of LSA-R.S. 38:2219.

37. Should the Contractor's Surety, even though approved and accepted by the Owner, subsequently remove its agency or representative from the State or become insolvent, bankrupt, or otherwise fail, the Contractor shall immediately furnish a new Bond in another company approved by the Owner, at no cost to the Owner. The new Bond shall be executed under the same terms and conditions as the original Bond. The new bond shall be submitted within thirty (30) days of such time as the Owner notifies Contractor or from the time Contractor learns or has reason to know that the original surety is no longer financially viable or acceptable to the Parish, whichever occurs first. In the event that Contractor fails or refuses to timely secure additional surety, then the Owner may secure such surety and thereafter deduct such cost or expense from any sum due, or to become due to Contractor.
38. The Contractor's bondsman shall obligate itself to all the terms and covenants of these Specifications and of contracts covering the Work executed hereunder. The Owner reserves the right to do Extra Work or make changes by altering, adding to deducting from the Work under the conditions and in the manner herein before described without notice to the Contractor's surety and without in any manner affecting the liability of bondsman or releasing it from any of its obligations hereunder.
39. The Bond shall also secure for the Owner the faithful performance of the Contract in strict accordance with plans, specifications, and other Contract Documents. It shall protect the Owner against all lien laws of the State and shall provide for payment of reasonable attorney's fees for enforcement of Contract and institution or concursus proceedings, if such proceedings become necessary. Likewise, it shall provide for all additional expenses of the Owner occurring through failure of the Contractor to perform.
40. The surety of the Contractor shall be and does hereby declare and acknowledge itself by acceptance to be bound to the Owner as a guarantor, jointly and in solido, with the Contractor, for fulfillment of terms of the Contract.
41. The performance Bond and Labor and Material Bond forming part of this Contract shall be continued by Contractor and its Surety for a period of one (1) year from date of acceptance of the Work/Project by Owner to assure prompt removal and replacement of all defective material, equipment, components thereof, workmanship, etc., and to assure payment of any damage to property of Owner or others as a result of such defective materials, equipment, workmanship, etc.

42. Contractor shall pay for cost of recording the Contract, Bond, and any change orders required to be recorded, as well as the cost of canceling any of the foregoing. Contractor shall also secure and pay for all Clear Lien and Privilege Certificates (together with any updates) which will be required before any final payment is made, and that may be required before any payment, at the request of the Owner, its representative, agent, architect, engineer and the like. All recordation and Clear Lien and Privilege Certificate requirements shall be in accordance with those requirements noted herein before in contract Specifications.
43. Contractor shall secure and maintain at its expense such insurance that will protect it and the Parish from claims for injuries to persons or damages to property which may arise from or in connection with the performance of Services or Work hereunder by the Contractor, his agents, representatives, employees, and/or subcontractors. The cost of such insurance shall be included in Contractor's bid.
44. The Contractor shall not commence work until it has obtained all insurance as required for the Parish Project. If the Contractor fails to furnish the Parish with the insurance protection required and begins work without first furnishing Parish with a currently dated certificate of insurance, the Parish has the right to obtain the insurance protection required and deduct the cost of insurance from the first payment due the Contractor. Further deductions are permitted from future payments as are needed to protect the interests of the Parish including, but not limited to, renewals of all policies.
45. Payment of Premiums: The insurance companies issuing the policy or policies shall have no recourse against the Parish of St. Tammany for payment of any premiums or for assessments under any form of policy.
46. Deductibles: Any and all deductibles in the described insurance policies shall be assumed by and be at the sole risk of the Contractor.
47. Authorization of Insurance Company(ies) and Rating: All insurance companies must be authorized to do business in the State of Louisiana and shall have an A.M. Best rating of no less than A-, Category VII.
48. Policy coverages and limits must be evidenced by Certificates of Insurance issued by Contractor's carrier to the Parish and shall reflect:

Date of Issue: Certificate must have current date.

Named Insured: The legal name of Contractor under contract with the Parish and its principal place of business shall be shown as the named insured on all Certificates of Liability Insurance.

Name of Certificate Holder: St. Tammany Parish Government, Office of Risk Management, P. O. Box 628, Covington, LA 70434

Project Description: A brief project description, including Project Name, Project Number and/or Contract Number, and Location.



Endorsements and Certificate Reference: All policies must be endorsed to provide, and certificates of insurance must evidence the following:

Waiver of Subrogation: The Contractor's insurers will have no right of recovery or subrogation against the Parish of St. Tammany, it being the intention of the parties that all insurance policy(ies) so affected shall protect both parties and be the primary coverage for any and all losses covered by the below described insurance. *Policy endorsements required for all coverages.*

Additional Insured: The Parish of St. Tammany shall be named as additional named insured with respect to general liability, marine liability, pollution/environmental liability, automobile liability and excess liability coverages. *Policy endorsements required.*

Hold Harmless: Contractor's liability insurers shall evidence their cognizance of the Hold Harmless and Indemnification in favor of St. Tammany Parish Government by referencing same on the face of the Certificate(s) of Insurance.

Cancellation Notice: Producer shall provide thirty (30) days prior written notice to the Parish of policy cancellation or substantive policy change.

49. The types of insurance coverage the Contractor is required to obtain and maintain throughout the duration of the Contract shall be designated by a separate document issued by the Office of Risk Management.
50. It is the intent of these instructions that they are in conformance with State Bid Laws. Should there be any discrepancy or ambiguity in these provisions, the applicable State Bid Law shall apply.
51. The letting of any public contract in connection with funds that are granted or advanced by the United States of America shall be subject to the effect, if any, of related laws of said United States and valid rules and regulations of federal agencies in charge, or governing use and payment of such federal funds.
52. Protests based on alleged solicitation improprieties that are apparent before bid opening, or the time set for receipt of initial proposals must be filed with and received by the Procurement Department BEFORE these times. Any other protest shall be filed no later than ten (10) calendar days after: the opening of the bid; the basis of the protest is known; or the basis of the protest should have been known (whichever is earlier).
53. It is the Parish's policy to provide a method to protest exclusion from a competition or from the award of a contract, or to challenge an alleged solicitation irregularity. It is always better to seek a resolution within the Parish system before resorting to outside agencies and/or litigation to resolve differences. All protests must be made in writing, and shall be concise and logically presented to facilitate review by the Parish. The written protest shall include:

The protester's name, address, and fax and telephone numbers and the solicitation, bid, or contract number;

A detailed statement of its legal and factual grounds, including a description of the resulting prejudice to the protester;

Copies of relevant documents;

All information establishing that the protester is an interested party and that the protest is timely; and

A request for a ruling by the agency; and a statement of the form of relief requested.

The protest shall be addressed to St. Tammany Parish Government Department of Procurement, P.O. Box 628, Covington, LA 70434

The protest review shall be conducted by the Parish Legal Department.

Only protests from interested parties will be allowed. Protests based on alleged solicitation improprieties that are apparent before bid opening, or the time set for receipt of initial proposals, must be filed with and received by the Department of Procurement BEFORE those deadlines.

Any other protest shall be filed no later than ten (10) calendar days after the basis of the protest is known, or should have been known (whichever is earlier).

The Parish will use its best efforts to resolve the protest within thirty (30) days of the date that it is received by the Parish. The written response will be sent to the protestor via mail and fax, if a fax number has been provided by the protestor. The protester can request additional methods of notification.

54. The last day to submit questions and/or verification on comparable products will be no later than 2:00 pm CST, seven (7) working days prior to the opening date of the bid/proposal due date. Further, any questions or inquires must be submitted via fax to 985-898-5227, or via email to [Purchasing@stpgov.org](mailto:Purchasing@stpgov.org). Any questions or inquiries received after the required deadline to submit questions or inquiries will not be answered.
55. St. Tammany Parish Government contracts to be awarded are dependent on the available funding and/or approval by members designated and/or acknowledged by St. Tammany Parish Government. At any time St. Tammany Parish Government reserves the right to cancel the award of a contract if either or both of these factors is deficient.
56. Any action by the Parish to disqualify any Bidder on the grounds that they are not a responsible Bidder shall be conducted in accordance with LSA-R.S. 38:2212(X).
57. If any part of the provisions contained herein and/or in the Specifications and Contract for the Work shall for any reason be held invalid, illegal or unenforceable in any respect, such invalidity, illegality or unenforceability shall not affect any other provisions of this Agreement or attachment, but it shall be construed as if such invalid, illegal, or unenforceable provision or part of a provision had never been contained herein.

## Section 03

### Summary of Work

#### I. Work to Include:

- Clearing and Grubbing.
- Excavation and Embankment.
- Installation of base course.
- Concrete and asphalt roadway construction.
- Turn lane improvements to LA 1077.
- Modification to the existing roundabout on Ochsner Blvd.
- Installation of culverts, linear detention pond and subsurface drainage.
- Traffic signage and striping installation.
- Erosion Control, Traffic Control, Ditch Grading, and Hydro-seeding.
- Plug and abandon existing water well.
- Water Main.

#### II. Location of Work:

Project location is to the north of I-12 from LA 1077 to the existing roundabout on Ochsner Blvd in St. Tammany Parish.

#### III. Documents: Bid Documents dated **March 26, 2021**, and entitled:

**LA 1077 / LA21 CONNECTOR ROAD**

**BID# 21-20-2**

#### IV. OTHER REQUIREMENTS (as applicable)

**When not otherwise specified herein, all work and materials shall conform to the requirements of the Louisiana Department of Transportation and Development hereafter called LDOTD (2006 Edition of Louisiana Standard Specifications for Roads and Bridges).**

**Section 04**  
**LOUISIANA UNIFORM PUBLIC WORK BID FORM**

**TO:** St. Tammany Parish Government  
21454 Koop Dr., Suite 2F  
Mandeville, La 70471

*(Owner to provide name and address of owner)*

**BID FOR:** LA1077/LA21 CONNECTOR ROAD

BID No. 21-20-2

*(Owner to provide name of project and other identifying information.)*

The undersigned bidder hereby declares and represents that she/he; a) has carefully examined and understands the Bidding Documents, b) has not received, relied on, or based his bid on any verbal instructions contrary to the Bidding Documents or any addenda, c) has personally inspected and is familiar with the project site, and hereby proposes to provide all labor, materials, tools, appliances and facilities as required to perform, in a workmanlike manner, all work and services for the construction and completion of the referenced project, all in strict accordance with the Bidding Documents prepared by: \_\_\_\_\_  
Richard C. Lambert Consultants, LLC and dated: 4/29/2021.

*(Owner to provide name of entity preparing bidding documents.)*

Bidders must acknowledge all addenda. The Bidder acknowledges receipt of the following **ADDENDA:** (Enter the number the Designer has assigned to each of the addenda that the Bidder is acknowledging) \_\_\_\_\_ .

**TOTAL BASE BID:** For all work required by the Bidding Documents (including any and all unit prices designated "Base Bid" \* but not alternates) the sum of:

\_\_\_\_\_ Dollars (\$ \_\_\_\_\_)

**ALTERNATES:** For any and all work required by the Bidding Documents for Alternates including any and all unit prices designated as alternates in the unit price description.

**Alternate No. 1** SUPERPAVE ASPHALT ALTERNATIVE for the lump sum of:

\_\_\_\_\_ Dollars (\$ \_\_\_\_\_)

**Alternate No. 2** *(Owner to provide description of alternate and state whether add or deduct)* for the lump sum of:

N/A \_\_\_\_\_ Dollars (\$ \_\_\_\_\_)

**Alternate No. 3** *(Owner to provide description of alternate and state whether add or deduct)* for the lump sum of:

N/A \_\_\_\_\_ Dollars (\$ \_\_\_\_\_)

**NAME OF BIDDER:** \_\_\_\_\_

**ADDRESS OF BIDDER:** \_\_\_\_\_

**LOUISIANA CONTRACTOR'S LICENSE NUMBER:** \_\_\_\_\_

**NAME OF AUTHORIZED SIGNATORY OF BIDDER:** \_\_\_\_\_

**TITLE OF AUTHORIZED SIGNATORY OF BIDDER:** \_\_\_\_\_

**SIGNATURE OF AUTHORIZED SIGNATORY OF BIDDER \*\*:** \_\_\_\_\_

**DATE:** \_\_\_\_\_

**THE FOLLOWING ITEMS ARE TO BE INCLUDED WITH THE SUBMISSION OF THIS LOUISIANA UNIFORM PUBLIC WORK BID FORM:**

\* The Unit Price Form shall be used if the contract includes unit prices. Otherwise it is not required and need not be included with the form. The number of unit prices that may be included is not limited and additional sheets may be included if needed.

\*\* A **CORPORATE RESOLUTION OR WRITTEN EVIDENCE** of the authority of the person signing the bid for the public work as prescribed by LA R.S. 38:2212(B)(5).

**BID SECURITY** in the form of a bid bond, certified check or cashier's check as prescribed by LA R.S. 38:2218(A) attached to and made a part of this bid.

## LOUISIANA UNIFORM PUBLIC WORK BID FORM UNIT PRICE FORM

TO: \_\_\_\_\_  
 St. Tammany Parish Government  
 21454 Koop Drive, Suite 2F  
 Mandeville, LA. 70471

*(Owner to provide name and address of owner)*

BID FOR: \_\_\_\_\_  
 LA 1077/LA 21 CONNECTOR  
 \_\_\_\_\_  
 BID No.21-20-2

*(Owner to provide name of project and other identifying information)*

**UNIT PRICES:** This form shall be used for any and all work required by the Bidding Documents and described as unit prices. Amounts shall be stated in figures and only in figures.

<b>DESCRIPTION:</b> x Base Bid or <input type="checkbox"/> Alt.# ____ CLEARING AND GRUBBING				
REF. NO.	QUANTITY:	UNIT OF MEASURE:	UNIT PRICE	UNIT PRICE EXTENSION <i>(Quantity times Unit Price)</i>
201-01-00100	1	LUMP SUM		
<b>DESCRIPTION:</b> x Base Bid or <input type="checkbox"/> Alt.# ____ REMOVAL OF STRUCTURES AND OBSTRUCTIONS				
REF. NO.	QUANTITY:	UNIT OF MEASURE:	UNIT PRICE	UNIT PRICE EXTENSION <i>(Quantity times Unit Price)</i>
202-01-00100	1	LUMP SUM		
<b>DESCRIPTION:</b> x Base Bid or <input type="checkbox"/> Alt.# ____ REMOVAL OF 8" WATERLINE				
REF. NO.	QUANTITY:	UNIT OF MEASURE:	UNIT PRICE	UNIT PRICE EXTENSION <i>(Quantity times Unit Price)</i>
202-02-00030	260	LN FT		
<b>DESCRIPTION:</b> x Base Bid or <input type="checkbox"/> Alt.# ____ REMOVAL OF CURBS (CONCRETE)				
REF. NO.	QUANTITY:	UNIT OF MEASURE:	UNIT PRICE	UNIT PRICE EXTENSION <i>(Quantity times Unit Price)</i>
202-02-06140	596	LN FT		

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<b>DESCRIPTION:</b> x Base Bid or <input type="checkbox"/> Alt.# ____ REMOVAL OF PORTLAND CEMENT CONCRETE PAVEMENT				
<b>REF. NO.</b>	<b>QUANTITY:</b>	<b>UNIT OF MEASURE:</b>	<b>UNIT PRICE</b>	<b>UNIT PRICE EXTENSION (<i>Quantity times Unit Price</i>)</b>
202-02-32500	57.5	SQ YD		
<b>DESCRIPTION:</b> x Base Bid or <input type="checkbox"/> Alt.# ____ EXCAVATION AND EMBANKMENT				
<b>REF. NO.</b>	<b>QUANTITY:</b>	<b>UNIT OF MEASURE:</b>	<b>UNIT PRICE</b>	<b>UNIT PRICE EXTENSION (<i>Quantity times Unit Price</i>)</b>
203-05-00100	1	LUMP SUM		
<b>DESCRIPTION:</b> x Base Bid or <input type="checkbox"/> Alt.# ____ TEMPORARY HAY OR STRAW BALES				
<b>REF. NO.</b>	<b>QUANTITY:</b>	<b>UNIT OF MEASURE:</b>	<b>UNIT PRICE</b>	<b>UNIT PRICE EXTENSION (<i>Quantity times Unit Price</i>)</b>
204-02-00100	465	EACH		
<b>DESCRIPTION:</b> x Base Bid or <input type="checkbox"/> Alt.# ____ TEMPORARY SILT FENCING				
<b>REF. NO.</b>	<b>QUANTITY:</b>	<b>UNIT OF MEASURE:</b>	<b>UNIT PRICE</b>	<b>UNIT PRICE EXTENSION (<i>Quantity times Unit Price</i>)</b>
204-06-00100	23024	LN FT		
<b>DESCRIPTION:</b> x Base Bid or <input type="checkbox"/> Alt.# ____ CLASS II BASE COURSE (12" THICK)(LA 1077)				
<b>REF. NO.</b>	<b>QUANTITY:</b>	<b>UNIT OF MEASURE:</b>	<b>UNIT PRICE</b>	<b>UNIT PRICE EXTENSION (<i>Quantity times Unit Price</i>)</b>
302-02-06121	3361.8	SQ YD		
<b>DESCRIPTION:</b> x Base Bid or <input type="checkbox"/> Alt.# ____ SUPERPAVE ASPHALTIC CONCRETE (LA 1077)				
<b>REF. NO.</b>	<b>QUANTITY:</b>	<b>UNIT OF MEASURE:</b>	<b>UNIT PRICE</b>	<b>UNIT PRICE EXTENSION (<i>Quantity times Unit Price</i>)</b>
502-01-00100-A	2249.4	TON		

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<b>DESCRIPTION:</b> x Base Bid or <input type="checkbox"/> Alt.# ____ MILLING ASPHALT PAVEMENT (2" THICK)				
<b>REF. NO.</b>	<b>QUANTITY:</b>	<b>UNIT OF MEASURE:</b>	<b>UNIT PRICE</b>	<b>UNIT PRICE EXTENSION (<i>Quantity times Unit Price</i>)</b>
509-01-00100	4496.3	SQ YD		
<b>DESCRIPTION:</b> x Base Bid or <input type="checkbox"/> Alt.# ____ PORTLAND CEMENT CONCRETE PAVEMENT (8" THICK)(CONNECTOR ROAD)				
<b>REF. NO.</b>	<b>QUANTITY:</b>	<b>UNIT OF MEASURE:</b>	<b>UNIT PRICE</b>	<b>UNIT PRICE EXTENSION (<i>Quantity times Unit Price</i>)</b>
601-01-00100-A	55546.9	SQ YD		
<b>DESCRIPTION:</b> x Base Bid or <input type="checkbox"/> Alt.# ____ PORTLAND CEMENT CONCRETE PAVEMENT (8" THICK)(ROUNDAABOUT)				
<b>REF. NO.</b>	<b>QUANTITY:</b>	<b>UNIT OF MEASURE:</b>	<b>UNIT PRICE</b>	<b>UNIT PRICE EXTENSION (<i>Quantity times Unit Price</i>)</b>
601-01-00100-B	917.0	SQ YD		
<b>DESCRIPTION:</b> x Base Bid or <input type="checkbox"/> Alt.# ____ STORM DRAIN PIPE (15" RCP)				
<b>REF. NO.</b>	<b>QUANTITY:</b>	<b>UNIT OF MEASURE:</b>	<b>UNIT PRICE</b>	<b>UNIT PRICE EXTENSION (<i>Quantity times Unit Price</i>)</b>
701-03-01002	48	LN FT		
<b>DESCRIPTION:</b> x Base Bid or <input type="checkbox"/> Alt.# ____ STORM DRAIN PIPE (18" RCP)				
<b>REF. NO.</b>	<b>QUANTITY:</b>	<b>UNIT OF MEASURE:</b>	<b>UNIT PRICE</b>	<b>UNIT PRICE EXTENSION (<i>Quantity times Unit Price</i>)</b>
701-03-01022	415	LN FT		
<b>DESCRIPTION:</b> x Base Bid or <input type="checkbox"/> Alt.# ____ STORM DRAIN PIPE (24" RCP)				
<b>REF. NO.</b>	<b>QUANTITY:</b>	<b>UNIT OF MEASURE:</b>	<b>UNIT PRICE</b>	<b>UNIT PRICE EXTENSION (<i>Quantity times Unit Price</i>)</b>
701-03-01042	184	LN FT		

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<b>DESCRIPTION:</b> x Base Bid or <input type="checkbox"/> Alt.# ____ STORM DRAIN PIPE ARCH (15" EQUIV. RCPA)				
<b>REF. NO.</b>	<b>QUANTITY:</b>	<b>UNIT OF MEASURE:</b>	<b>UNIT PRICE</b>	<b>UNIT PRICE EXTENSION (<i>Quantity times Unit Price</i>)</b>
701-04-01000	651	LN FT		
<b>DESCRIPTION:</b> x Base Bid or <input type="checkbox"/> Alt.# ____ STORM DRAIN PIPE ARCH (18" EQUIV. RCPA)				
<b>REF. NO.</b>	<b>QUANTITY:</b>	<b>UNIT OF MEASURE:</b>	<b>UNIT PRICE</b>	<b>UNIT PRICE EXTENSION (<i>Quantity times Unit Price</i>)</b>
701-04-01020	465	LN FT		
<b>DESCRIPTION:</b> x Base Bid or <input type="checkbox"/> Alt.# ____ STORM DRAIN PIPE ARCH (30" EQUIV. RCPA)				
<b>REF. NO.</b>	<b>QUANTITY:</b>	<b>UNIT OF MEASURE:</b>	<b>UNIT PRICE</b>	<b>UNIT PRICE EXTENSION (<i>Quantity times Unit Price</i>)</b>
701-04-01060	216	LN FT		
<b>DESCRIPTION:</b> x Base Bid or <input type="checkbox"/> Alt.# ____ STORM DRAIN PIPE ARCH (36" EQUIV. RCPA)				
<b>REF. NO.</b>	<b>QUANTITY:</b>	<b>UNIT OF MEASURE:</b>	<b>UNIT PRICE</b>	<b>UNIT PRICE EXTENSION (<i>Quantity times Unit Price</i>)</b>
701-04-01080	1060	LN FT		
<b>DESCRIPTION:</b> x Base Bid or <input type="checkbox"/> Alt.# ____ STORM DRAIN PIPE ARCH (42" EQUIV. RCPA)				
<b>REF. NO.</b>	<b>QUANTITY:</b>	<b>UNIT OF MEASURE:</b>	<b>UNIT PRICE</b>	<b>UNIT PRICE EXTENSION (<i>Quantity times Unit Price</i>)</b>
701-04-01100	264	LN FT		
<b>DESCRIPTION:</b> x Base Bid or <input type="checkbox"/> Alt.# ____ STORM DRAIN PIPE ARCH (48" EQUIV. RCPA)				
<b>REF. NO.</b>	<b>QUANTITY:</b>	<b>UNIT OF MEASURE:</b>	<b>UNIT PRICE</b>	<b>UNIT PRICE EXTENSION (<i>Quantity times Unit Price</i>)</b>
701-04-01120	96	LN FT		

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<b>DESCRIPTION:</b> x Base Bid or <input type="checkbox"/> Alt.# ____ STORM DRAIN PIPE ARCH (60" EQUIV. RCPA)				
<b>REF. NO.</b>	<b>QUANTITY:</b>	<b>UNIT OF MEASURE:</b>	<b>UNIT PRICE</b>	<b>UNIT PRICE EXTENSION (<i>Quantity times Unit Price</i>)</b>
701-04-01160	595	LN FT		
<b>DESCRIPTION:</b> x Base Bid or <input type="checkbox"/> Alt.# ____ CORREGUATED METAL PIPE ARCH (EXT)(54" EQUIV.)				
<b>REF. NO.</b>	<b>QUANTITY:</b>	<b>UNIT OF MEASURE:</b>	<b>UNIT PRICE</b>	<b>UNIT PRICE EXTENSION (<i>Quantity times Unit Price</i>)</b>
701-13-01140	20	LN FT		
<b>DESCRIPTION:</b> x Base Bid or <input type="checkbox"/> Alt.# ____ MANHOLES (R-CB-11)				
<b>REF. NO.</b>	<b>QUANTITY:</b>	<b>UNIT OF MEASURE:</b>	<b>UNIT PRICE</b>	<b>UNIT PRICE EXTENSION (<i>Quantity times Unit Price</i>)</b>
702-02-00200	1	EACH		
<b>DESCRIPTION:</b> x Base Bid or <input type="checkbox"/> Alt.# ____ CATCH BASINS (CB-01)				
<b>REF. NO.</b>	<b>QUANTITY:</b>	<b>UNIT OF MEASURE:</b>	<b>UNIT PRICE</b>	<b>UNIT PRICE EXTENSION (<i>Quantity times Unit Price</i>)</b>
702-03-00100	2	EACH		
<b>DESCRIPTION:</b> x Base Bid or <input type="checkbox"/> Alt.# ____ ADJUSTING CATCH BASINS				
<b>REF. NO.</b>	<b>QUANTITY:</b>	<b>UNIT OF MEASURE:</b>	<b>UNIT PRICE</b>	<b>UNIT PRICE EXTENSION (<i>Quantity times Unit Price</i>)</b>
702-04-00200	2	EACH		
<b>DESCRIPTION:</b> x Base Bid or <input type="checkbox"/> Alt.# ____ SIDE DRAIN END TREATMENT (1 BARREL, 18" RCP)				
<b>REF. NO.</b>	<b>QUANTITY:</b>	<b>UNIT OF MEASURE:</b>	<b>UNIT PRICE</b>	<b>UNIT PRICE EXTENSION (<i>Quantity times Unit Price</i>)</b>
702-06-01000	2	EACH		

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<b>DESCRIPTION:</b> x Base Bid or <input type="checkbox"/> Alt.# ____ SIDE DRAIN END TREATMENT(1 BARREL, 24" RCP)				
<b>REF. NO.</b>	<b>QUANTITY:</b>	<b>UNIT OF MEASURE:</b>	<b>UNIT PRICE</b>	<b>UNIT PRICE EXTENSION (<i>Quantity times Unit Price</i>)</b>
702-06-01020	2	EACH		
<b>DESCRIPTION:</b> x Base Bid or <input type="checkbox"/> Alt.# ____ SIDE DRAIN END TREATMENT (1 BARREL, 30" EQUIV. RCPA)				
<b>REF. NO.</b>	<b>QUANTITY:</b>	<b>UNIT OF MEASURE:</b>	<b>UNIT PRICE</b>	<b>UNIT PRICE EXTENSION (<i>Quantity times Unit Price</i>)</b>
702-06-01060	1	EACH		
<b>DESCRIPTION:</b> x Base Bid or <input type="checkbox"/> Alt.# ____ SIDE DRAIN END TREATMENT (1 BARREL, 36" EQUIV. RCPA)				
<b>REF. NO.</b>	<b>QUANTITY:</b>	<b>UNIT OF MEASURE:</b>	<b>UNIT PRICE</b>	<b>UNIT PRICE EXTENSION (<i>Quantity times Unit Price</i>)</b>
702-06-01100	1	EACH		
<b>DESCRIPTION:</b> x Base Bid or <input type="checkbox"/> Alt.# ____ CONCRETE WALK (5" THICK)				
<b>REF. NO.</b>	<b>QUANTITY:</b>	<b>UNIT OF MEASURE:</b>	<b>UNIT PRICE</b>	<b>UNIT PRICE EXTENSION (<i>Quantity times Unit Price</i>)</b>
706-01-00200	11675.9	SQ YD		
<b>DESCRIPTION:</b> x Base Bid or <input type="checkbox"/> Alt.# ____ INCIDENTAL CONCRETE PAVING (6" THICK)				
<b>REF. NO.</b>	<b>QUANTITY:</b>	<b>UNIT OF MEASURE:</b>	<b>UNIT PRICE</b>	<b>UNIT PRICE EXTENSION (<i>Quantity times Unit Price</i>)</b>
706-03-00300	449.2	SQ YD		
<b>DESCRIPTION:</b> x Base Bid or <input type="checkbox"/> Alt.# ____ INCIDENTAL CONCRETE PAVING (COLORED)(6" THICK)				
<b>REF. NO.</b>	<b>QUANTITY:</b>	<b>UNIT OF MEASURE:</b>	<b>UNIT PRICE</b>	<b>UNIT PRICE EXTENSION (<i>Quantity times Unit Price</i>)</b>
706-03-10000	1387.4	SQ YD		

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<b>DESCRIPTION:</b> x Base Bid or <input type="checkbox"/> Alt.# ____ CONCRETE BARRIER CURB (CONNECTOR ROAD)				
<b>REF. NO.</b>	<b>QUANTITY:</b>	<b>UNIT OF MEASURE:</b>	<b>UNIT PRICE</b>	<b>UNIT PRICE EXTENSION (<i>Quantity times Unit Price</i>)</b>
707-01-00200-A	20003.1	LN FT		
<b>DESCRIPTION:</b> x Base Bid or <input type="checkbox"/> Alt.# ____ CONCRETE BARRIER CURB (ROUNDBOUT)				
<b>REF. NO.</b>	<b>QUANTITY:</b>	<b>UNIT OF MEASURE:</b>	<b>UNIT PRICE</b>	<b>UNIT PRICE EXTENSION (<i>Quantity times Unit Price</i>)</b>
707-01-00200-B	453.4	LN FT		
<b>DESCRIPTION:</b> x Base Bid or <input type="checkbox"/> Alt.# ____ CONCRETE MOUNTABLE CURB				
<b>REF. NO.</b>	<b>QUANTITY:</b>	<b>UNIT OF MEASURE:</b>	<b>UNIT PRICE</b>	<b>UNIT PRICE EXTENSION (<i>Quantity times Unit Price</i>)</b>
707-01-00300	2810.8	LN FT		
<b>DESCRIPTION:</b> x Base Bid or <input type="checkbox"/> Alt.# ____ CONCRETE MOUNTABLE CURB (CONNECTOR ROAD)				
<b>REF. NO.</b>	<b>QUANTITY:</b>	<b>UNIT OF MEASURE:</b>	<b>UNIT PRICE</b>	<b>UNIT PRICE EXTENSION (<i>Quantity times Unit Price</i>)</b>
707-01-00300-A	96	LN FT		
<b>DESCRIPTION:</b> x Base Bid or <input type="checkbox"/> Alt.# ____ RIPRAP (10 LB, 12" THICK)				
<b>REF. NO.</b>	<b>QUANTITY:</b>	<b>UNIT OF MEASURE:</b>	<b>UNIT PRICE</b>	<b>UNIT PRICE EXTENSION (<i>Quantity times Unit Price</i>)</b>
711-01-02020	355	SQ YD		
<b>DESCRIPTION:</b> x Base Bid or <input type="checkbox"/> Alt.# ____ RIPRAP (30 LB, 14" THICK)				
<b>REF. NO.</b>	<b>QUANTITY:</b>	<b>UNIT OF MEASURE:</b>	<b>UNIT PRICE</b>	<b>UNIT PRICE EXTENSION (<i>Quantity times Unit Price</i>)</b>
711-01-03000	564	SQ YD		

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<b>DESCRIPTION:</b> x Base Bid or <input type="checkbox"/> Alt.# ____ TEMPORARY SIGNS AND BARRICADES				
<b>REF. NO.</b>	<b>QUANTITY:</b>	<b>UNIT OF MEASURE:</b>	<b>UNIT PRICE</b>	<b>UNIT PRICE EXTENSION (<i>Quantity times Unit Price</i>)</b>
713-01-00100	1	LUMP SUM		
<b>DESCRIPTION:</b> x Base Bid or <input type="checkbox"/> Alt.# ____ TEMPORARY PAVEMENT MARKINGS (4" WIDTH)				
<b>REF. NO.</b>	<b>QUANTITY:</b>	<b>UNIT OF MEASURE:</b>	<b>UNIT PRICE</b>	<b>UNIT PRICE EXTENSION (<i>Quantity times Unit Price</i>)</b>
713-02-00100	20175	LN FT		
<b>DESCRIPTION:</b> x Base Bid or <input type="checkbox"/> Alt.# ____ MOBILIZATION				
<b>REF. NO.</b>	<b>QUANTITY:</b>	<b>UNIT OF MEASURE:</b>	<b>UNIT PRICE</b>	<b>UNIT PRICE EXTENSION (<i>Quantity times Unit Price</i>)</b>
727-01-00100	1	LUMP SUM		
<b>DESCRIPTION:</b> x Base Bid or <input type="checkbox"/> Alt.# ____ SIGN (TYPE A)				
<b>REF. NO.</b>	<b>QUANTITY:</b>	<b>UNIT OF MEASURE:</b>	<b>UNIT PRICE</b>	<b>UNIT PRICE EXTENSION (<i>Quantity times Unit Price</i>)</b>
729-01-00100	134.2	SQ FT		
<b>DESCRIPTION:</b> x Base Bid or <input type="checkbox"/> Alt.# ____ SIGN (TYPE B)				
<b>REF. NO.</b>	<b>QUANTITY:</b>	<b>UNIT OF MEASURE:</b>	<b>UNIT PRICE</b>	<b>UNIT PRICE EXTENSION (<i>Quantity times Unit Price</i>)</b>
729-02-00100	41	SQ FT		
<b>DESCRIPTION:</b> x Base Bid or <input type="checkbox"/> Alt.# ____ U-CHANNEL POST				
<b>REF. NO.</b>	<b>QUANTITY:</b>	<b>UNIT OF MEASURE:</b>	<b>UNIT PRICE</b>	<b>UNIT PRICE EXTENSION (<i>Quantity times Unit Price</i>)</b>
729-21-00100	22	EACH		

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<b>DESCRIPTION:</b> x Base Bid or <input type="checkbox"/> Alt.# ____ REFLECTORIZED RAISED PAVEMENT MARKERS				
<b>REF. NO.</b>	<b>QUANTITY:</b>	<b>UNIT OF MEASURE:</b>	<b>UNIT PRICE</b>	<b>UNIT PRICE EXTENSION (<i>Quantity times Unit Price</i>)</b>
731-02-00100	600	EACH		
<b>DESCRIPTION:</b> x Base Bid or <input type="checkbox"/> Alt.# ____ REMOVAL OF RAISED PAVEMENT MARKERS				
<b>REF. NO.</b>	<b>QUANTITY:</b>	<b>UNIT OF MEASURE:</b>	<b>UNIT PRICE</b>	<b>UNIT PRICE EXTENSION (<i>Quantity times Unit Price</i>)</b>
731-03-00100	0.098	MILE		
<b>DESCRIPTION:</b> x Base Bid or <input type="checkbox"/> Alt.# ____ PLASTIC PVMT STRIP (SOLID LINE) (12" W) (THERMO 125 MIL)				
<b>REF. NO.</b>	<b>QUANTITY:</b>	<b>UNIT OF MEASURE:</b>	<b>UNIT PRICE</b>	<b>UNIT PRICE EXTENSION (<i>Quantity times Unit Price</i>)</b>
732-01-02060	0.067	MILE		
<b>DESCRIPTION:</b> x Base Bid or <input type="checkbox"/> Alt.# ____ PLASTIC PVMT STRIP (SOLID LINE) (24" W) (THERMO 125 MIL)				
<b>REF. NO.</b>	<b>QUANTITY:</b>	<b>UNIT OF MEASURE:</b>	<b>UNIT PRICE</b>	<b>UNIT PRICE EXTENSION (<i>Quantity times Unit Price</i>)</b>
732-01-02080	0.196	MILE		
<b>DESCRIPTION:</b> x Base Bid or <input type="checkbox"/> Alt.# ____ PLASTIC PVMT STRIP (SOLID LINE) (4" W) (THERMO 90 MIL)				
<b>REF. NO.</b>	<b>QUANTITY:</b>	<b>UNIT OF MEASURE:</b>	<b>UNIT PRICE</b>	<b>UNIT PRICE EXTENSION (<i>Quantity times Unit Price</i>)</b>
732-02-02000	9.933	MILE		
<b>DESCRIPTION:</b> x Base Bid or <input type="checkbox"/> Alt.# ____ PLASTIC PVMT STRIP (SOLID LINE) (8" W) (THERMO 90 MIL)				
<b>REF. NO.</b>	<b>QUANTITY:</b>	<b>UNIT OF MEASURE:</b>	<b>UNIT PRICE</b>	<b>UNIT PRICE EXTENSION (<i>Quantity times Unit Price</i>)</b>
732-02-02040	0.286	MILE		

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<b>DESCRIPTION:</b> x Base Bid or <input type="checkbox"/> Alt.# ____ PLASTIC PVMT STRIP (BRKN LINE) (4" W) (THERMO 90 MIL)				
<b>REF. NO.</b>	<b>QUANTITY:</b>	<b>UNIT OF MEASURE:</b>	<b>UNIT PRICE</b>	<b>UNIT PRICE EXTENSION (<i>Quantity times Unit Price</i>)</b>
732-03-02000	4.102	MILE		
<b>DESCRIPTION:</b> x Base Bid or <input type="checkbox"/> Alt.# ____ PLASTIC PVMT STRIP (DOTTED LINE) (8" W) (THERMO 90 MIL)				
<b>REF. NO.</b>	<b>QUANTITY:</b>	<b>UNIT OF MEASURE:</b>	<b>UNIT PRICE</b>	<b>UNIT PRICE EXTENSION (<i>Quantity times Unit Price</i>)</b>
732-03-02040	0.271	MILE		
<b>DESCRIPTION:</b> x Base Bid or <input type="checkbox"/> Alt.# ____ PLASTIC PVMT STRIP (DOTTED LINE) (12" W)(2' L)(THERMO 90 MIL)				
<b>REF. NO.</b>	<b>QUANTITY:</b>	<b>UNIT OF MEASURE:</b>	<b>UNIT PRICE</b>	<b>UNIT PRICE EXTENSION (<i>Quantity times Unit Price</i>)</b>
732-03-02050	0.019	MILE		
<b>DESCRIPTION:</b> x Base Bid or <input type="checkbox"/> Alt.# ____ PLASTIC PVMT STRIP (DOTTED LINE) (24" W)(2' L)(THERMO 90 MIL)				
<b>REF. NO.</b>	<b>QUANTITY:</b>	<b>UNIT OF MEASURE:</b>	<b>UNIT PRICE</b>	<b>UNIT PRICE EXTENSION (<i>Quantity times Unit Price</i>)</b>
732-03-02070	0.041	MILE		
<b>DESCRIPTION:</b> x Base Bid or <input type="checkbox"/> Alt.# ____ PLASTIC PVMT LEGENDS AND SYMBOLS (ARROW - STRAIGHT)				
<b>REF. NO.</b>	<b>QUANTITY:</b>	<b>UNIT OF MEASURE:</b>	<b>UNIT PRICE</b>	<b>UNIT PRICE EXTENSION (<i>Quantity times Unit Price</i>)</b>
732-04-01020	3	EACH		
<b>DESCRIPTION:</b> x Base Bid or <input type="checkbox"/> Alt.# ____ PLASTIC PVMT LEGENDS AND SYMBOLS (ARROW - DBL)				
<b>REF. NO.</b>	<b>QUANTITY:</b>	<b>UNIT OF MEASURE:</b>	<b>UNIT PRICE</b>	<b>UNIT PRICE EXTENSION (<i>Quantity times Unit Price</i>)</b>
732-04-01040	3	EACH		

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<b>DESCRIPTION:</b> x Base Bid or <input type="checkbox"/> Alt.# ____ PLASTIC PVMT LEGENDS AND SYMBOLS (ARROW - LT TURN)				
<b>REF. NO.</b>	<b>QUANTITY:</b>	<b>UNIT OF MEASURE:</b>	<b>UNIT PRICE</b>	<b>UNIT PRICE EXTENSION (<i>Quantity times Unit Price</i>)</b>
732-04-01080	3	EACH		
<b>DESCRIPTION:</b> x Base Bid or <input type="checkbox"/> Alt.# ____ PLASTIC PVMT LEGENDS AND SYMBOLS (ARROW - RT TURN)				
<b>REF. NO.</b>	<b>QUANTITY:</b>	<b>UNIT OF MEASURE:</b>	<b>UNIT PRICE</b>	<b>UNIT PRICE EXTENSION (<i>Quantity times Unit Price</i>)</b>
732-04-01100	5	EACH		
<b>DESCRIPTION:</b> x Base Bid or <input type="checkbox"/> Alt.# ____ PLASTIC PVMT LEGENDS AND SYMBOLS (DIR ARR RNDDBT-FSHK)(TYPE LTC)				
<b>REF. NO.</b>	<b>QUANTITY:</b>	<b>UNIT OF MEASURE:</b>	<b>UNIT PRICE</b>	<b>UNIT PRICE EXTENSION (<i>Quantity times Unit Price</i>)</b>
732-04-01131	2	EACH		
<b>DESCRIPTION:</b> x Base Bid or <input type="checkbox"/> Alt.# ____ PLASTIC PVMT LEGENDS AND SYMBOLS (DIR ARR RNDDBT-FSHK)(TYPE TRC)				
<b>REF. NO.</b>	<b>QUANTITY:</b>	<b>UNIT OF MEASURE:</b>	<b>UNIT PRICE</b>	<b>UNIT PRICE EXTENSION (<i>Quantity times Unit Price</i>)</b>
732-04-01132	1	EACH		
<b>DESCRIPTION:</b> x Base Bid or <input type="checkbox"/> Alt.# ____ PLASTIC PVMT LEGENDS AND SYMBOLS (DIR ARR RNDDBT-FSHK)(TYPE LC)				
<b>REF. NO.</b>	<b>QUANTITY:</b>	<b>UNIT OF MEASURE:</b>	<b>UNIT PRICE</b>	<b>UNIT PRICE EXTENSION (<i>Quantity times Unit Price</i>)</b>
732-04-01133	1	EACH		
<b>DESCRIPTION:</b> x Base Bid or <input type="checkbox"/> Alt.# ____ PLASTIC PVMT LEGENDS AND SYMBOLS (DIR ARR RNDDBT-FSHK)(TYPE TC)				
<b>REF. NO.</b>	<b>QUANTITY:</b>	<b>UNIT OF MEASURE:</b>	<b>UNIT PRICE</b>	<b>UNIT PRICE EXTENSION (<i>Quantity times Unit Price</i>)</b>
732-04-01134	2	EACH		

Wording for "DESCRIPTION" is to be provided by the Owner. All quantities are estimated. The contractor will be paid based upon actual quantities as verified by the Owner

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<b>DESCRIPTION:</b> x Base Bid or <input type="checkbox"/> Alt.# ____ PLASTIC PVMT LEGENDS AND SYMBOLS (ONLY)				
<b>REF. NO.</b>	<b>QUANTITY:</b>	<b>UNIT OF MEASURE:</b>	<b>UNIT PRICE</b>	<b>UNIT PRICE EXTENSION (<i>Quantity times Unit Price</i>)</b>
732-04-15020	4	EACH		
<b>DESCRIPTION:</b> x Base Bid or <input type="checkbox"/> Alt.# ____ REMOVAL OF EXISTING MARKINGS				
<b>REF. NO.</b>	<b>QUANTITY:</b>	<b>UNIT OF MEASURE:</b>	<b>UNIT PRICE</b>	<b>UNIT PRICE EXTENSION (<i>Quantity times Unit Price</i>)</b>
732-05-00100	0.688	MILE		
<b>DESCRIPTION:</b> x Base Bid or <input type="checkbox"/> Alt.# ____ PAINTED CURBS AND ISLANDS				
<b>REF. NO.</b>	<b>QUANTITY:</b>	<b>UNIT OF MEASURE:</b>	<b>UNIT PRICE</b>	<b>UNIT PRICE EXTENSION (<i>Quantity times Unit Price</i>)</b>
737-05-00001	338.4	LN FT		
<b>DESCRIPTION:</b> x Base Bid or <input type="checkbox"/> Alt.# ____ HYDRO-SEEDING				
<b>REF. NO.</b>	<b>QUANTITY:</b>	<b>UNIT OF MEASURE:</b>	<b>UNIT PRICE</b>	<b>UNIT PRICE EXTENSION (<i>Quantity times Unit Price</i>)</b>
739-01-00100	18.77	ACRE		
<b>DESCRIPTION:</b> x Base Bid or <input type="checkbox"/> Alt.# ____ CONSTRUCTION LAYOUT				
<b>REF. NO.</b>	<b>QUANTITY:</b>	<b>UNIT OF MEASURE:</b>	<b>UNIT PRICE</b>	<b>UNIT PRICE EXTENSION (<i>Quantity times Unit Price</i>)</b>
740-01-00100	1	LUMP SUM		
<b>DESCRIPTION:</b> x Base Bid or <input type="checkbox"/> Alt.# ____ WATER MAIN (10" HDPE)				
<b>REF. NO.</b>	<b>QUANTITY:</b>	<b>UNIT OF MEASURE:</b>	<b>UNIT PRICE</b>	<b>UNIT PRICE EXTENSION (<i>Quantity times Unit Price</i>)</b>
741-01-01120	260	LN FT		

Wording for "DESCRIPTION" is to be provided by the Owner. All quantities are estimated. The contractor will be paid based upon actual quantities as verified by the Owner



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<b>DESCRIPTION:</b> x Base Bid or <input type="checkbox"/> Alt.# ____ GATE VALVE (12")				
<b>REF. NO.</b>	<b>QUANTITY:</b>	<b>UNIT OF MEASURE:</b>	<b>UNIT PRICE</b>	<b>UNIT PRICE EXTENSION (<i>Quantity times Unit Price</i>)</b>
741-02-00600	4	EACH		
<b>DESCRIPTION:</b> x Base Bid or <input type="checkbox"/> Alt.# ____ TAPPING SLEEVE AND VALVE ASSEMBLY (8")				
<b>REF. NO.</b>	<b>QUANTITY:</b>	<b>UNIT OF MEASURE:</b>	<b>UNIT PRICE</b>	<b>UNIT PRICE EXTENSION (<i>Quantity times Unit Price</i>)</b>
741-03-00500	2	EACH		
<b>DESCRIPTION:</b> x Base Bid or <input type="checkbox"/> Alt.# ____ SAW CUTTING PORTLAND CEMENT CONCRETE PAVEMENT				
<b>REF. NO.</b>	<b>QUANTITY:</b>	<b>UNIT OF MEASURE:</b>	<b>UNIT PRICE</b>	<b>UNIT PRICE EXTENSION (<i>Quantity times Unit Price</i>)</b>
NS-600-00220	1384.8	IN-FT		
<b>DESCRIPTION:</b> x Base Bid or <input type="checkbox"/> Alt.# ____ PORTABLE CHANGEABLE MESSAGE SIGN				
<b>REF. NO.</b>	<b>QUANTITY:</b>	<b>UNIT OF MEASURE:</b>	<b>UNIT PRICE</b>	<b>UNIT PRICE EXTENSION (<i>Quantity times Unit Price</i>)</b>
NS-713-00008	4	EACH		
<b>DESCRIPTION:</b> x Base Bid or <input type="checkbox"/> Alt.# ____ 6" THICK STRUCTURAL FILL (SHARED USE PATH)				
<b>REF. NO.</b>	<b>QUANTITY:</b>	<b>UNIT OF MEASURE:</b>	<b>UNIT PRICE</b>	<b>UNIT PRICE EXTENSION (<i>Quantity times Unit Price</i>)</b>
S-001	2141.9	CU YD		
<b>DESCRIPTION:</b> x Base Bid or <input type="checkbox"/> Alt.# ____ 12" THICK STRUCTURAL FILL (CONNECTOR ROAD)				
<b>REF. NO.</b>	<b>QUANTITY:</b>	<b>UNIT OF MEASURE:</b>	<b>UNIT PRICE</b>	<b>UNIT PRICE EXTENSION (<i>Quantity times Unit Price</i>)</b>
S-002-A	20037.7	CU YD		

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**UNIT PRICES:** This form shall be used for any and all work required by the Bidding Documents and described as unit prices. Amounts shall be stated in figures and only in figures.

<b>DESCRIPTION:</b> x Base Bid or <input checked="" type="checkbox"/> Alt.# ____ 12" THICK STRUCTURAL FILL (ROUNDAABOUT)				
<b>REF. NO.</b>	<b>QUANTITY:</b>	<b>UNIT OF MEASURE:</b>	<b>UNIT PRICE</b>	<b>UNIT PRICE EXTENSION (<i>Quantity times Unit Price</i>)</b>
S-003	322	CU YD		
<b>DESCRIPTION:</b> x Base Bid or <input checked="" type="checkbox"/> Alt.# ____ OUTFALL DITCH EXCAVATION				
<b>REF. NO.</b>	<b>QUANTITY:</b>	<b>UNIT OF MEASURE:</b>	<b>UNIT PRICE</b>	<b>UNIT PRICE EXTENSION (<i>Quantity times Unit Price</i>)</b>
S-004	1449	LN FT		
<b>DESCRIPTION:</b> x Base Bid or <input checked="" type="checkbox"/> Alt.# ____ CONSTRUCTION MATERIALS TESTING				
<b>REF. NO.</b>	<b>QUANTITY:</b>	<b>UNIT OF MEASURE:</b>	<b>UNIT PRICE</b>	<b>UNIT PRICE EXTENSION (<i>Quantity times Unit Price</i>)</b>
S-005	1	LUMP SUM		
<b>DESCRIPTION:</b> x Base Bid or <input checked="" type="checkbox"/> Alt.# ____ ENVIRONMENTAL PROTECTION				
<b>REF. NO.</b>	<b>QUANTITY:</b>	<b>UNIT OF MEASURE:</b>	<b>UNIT PRICE</b>	<b>UNIT PRICE EXTENSION (<i>Quantity times Unit Price</i>)</b>
S-006	1	LUMP SUM		
<b>DESCRIPTION:</b> x Base Bid or <input checked="" type="checkbox"/> Alt.# ____ EXCAVATION AND REPLACEMENT OF UNSUITABLE MATERIAL				
<b>REF. NO.</b>	<b>QUANTITY:</b>	<b>UNIT OF MEASURE:</b>	<b>UNIT PRICE</b>	<b>UNIT PRICE EXTENSION (<i>Quantity times Unit Price</i>)</b>
S-007	8175.3	CU YD		
<b>DESCRIPTION:</b> x Base Bid or <input checked="" type="checkbox"/> Alt.# ____ PLUG AND ABANDON EXISTING WATER WELL				
<b>REF. NO.</b>	<b>QUANTITY:</b>	<b>UNIT OF MEASURE:</b>	<b>UNIT PRICE</b>	<b>UNIT PRICE EXTENSION (<i>Quantity times Unit Price</i>)</b>
S-008	1	EACH		

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<b>DESCRIPTION:</b> x Base Bid or <input type="checkbox"/> Alt.# ____ JUNCTION BOX TYPE 1				
<b>REF. NO.</b>	<b>QUANTITY:</b>	<b>UNIT OF MEASURE:</b>	<b>UNIT PRICE</b>	<b>UNIT PRICE EXTENSION (<i>Quantity times Unit Price</i>)</b>
S-009-A	3	EACH		
<b>DESCRIPTION:</b> x Base Bid or <input type="checkbox"/> Alt.# ____ JUNCTION BOX TYPE 2				
<b>REF. NO.</b>	<b>QUANTITY:</b>	<b>UNIT OF MEASURE:</b>	<b>UNIT PRICE</b>	<b>UNIT PRICE EXTENSION (<i>Quantity times Unit Price</i>)</b>
S-009-B	1	EACH		
<b>DESCRIPTION:</b> x Base Bid or <input type="checkbox"/> Alt.# ____ JUNCTION BOX TYPE 3				
<b>REF. NO.</b>	<b>QUANTITY:</b>	<b>UNIT OF MEASURE:</b>	<b>UNIT PRICE</b>	<b>UNIT PRICE EXTENSION (<i>Quantity times Unit Price</i>)</b>
S-009-C	3	EACH		
<b>DESCRIPTION:</b> x Base Bid or <input type="checkbox"/> Alt.# ____ JUNCTION BOX TYPE 4				
<b>REF. NO.</b>	<b>QUANTITY:</b>	<b>UNIT OF MEASURE:</b>	<b>UNIT PRICE</b>	<b>UNIT PRICE EXTENSION (<i>Quantity times Unit Price</i>)</b>
S-009-D	1	EACH		
<b>DESCRIPTION:</b> x Base Bid or <input type="checkbox"/> Alt.# ____ 24"X24" STACK DRAIN INLET				
<b>REF. NO.</b>	<b>QUANTITY:</b>	<b>UNIT OF MEASURE:</b>	<b>UNIT PRICE</b>	<b>UNIT PRICE EXTENSION (<i>Quantity times Unit Price</i>)</b>
S-009-E	3	EACH		
<b>DESCRIPTION:</b> x Base Bid or <input type="checkbox"/> Alt.# ____ AS-BUILT SURVEY AND PLAN				
<b>REF. NO.</b>	<b>QUANTITY:</b>	<b>UNIT OF MEASURE:</b>	<b>UNIT PRICE</b>	<b>UNIT PRICE EXTENSION (<i>Quantity times Unit Price</i>)</b>
S-010	1	LUMP SUM		

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**LOUISIANA UNIFORM PUBLIC WORK BID FORM  
UNIT PRICE FORM**

TO: \_\_\_\_\_  
 St. Tammany Parish Government  
 21454 Koop Drive, Suite 2F  
 Mandeville, LA. 70471

*(Owner to provide name and address of owner)*

BID FOR: \_\_\_\_\_  
 LA 1077/LA 21 CONNECTOR  
 BID No.21-20-2  
 Superpave Asphalt Alternative

*(Owner to provide name of project and other identifying information)*

**UNIT PRICES:** This form shall be used for any and all work required by the Bidding Documents and described as unit prices. Amounts shall be stated in figures and only in figures.

<b>DESCRIPTION:</b> <input checked="" type="checkbox"/> Base Bid or x Alt.# 1 SUPERPAVE ASPHALTIC CONCRETE (CONNECTOR ROAD)				
REF. NO.	QUANTITY:	UNIT OF MEASURE:	UNIT PRICE	UNIT PRICE EXTENSION ( <i>Quantity times Unit Price</i> )
502-01-00100-B	15,605.9	TON		
<b>DESCRIPTION:</b> <input checked="" type="checkbox"/> Base Bid or x Alt.# 1 COMBINATION CURB AND GUTTER (CONNECTOR ROAD)				
REF. NO.	QUANTITY:	UNIT OF MEASURE:	UNIT PRICE	UNIT PRICE EXTENSION ( <i>Quantity times Unit Price</i> )
707-03-00100	20,099.1	LN FT		
<b>DESCRIPTION:</b> <input checked="" type="checkbox"/> Base Bid or x Alt.# 1 12" THICK STRUCTURAL FILL (CONNECTOR ROAD)				
REF. NO.	QUANTITY:	UNIT OF MEASURE:	UNIT PRICE	UNIT PRICE EXTENSION ( <i>Quantity times Unit Price</i> )
S-002-B	21,543.8	CU YD		
<b>DESCRIPTION:</b> <input checked="" type="checkbox"/> Base Bid or x Alt.# 1 5" THICK FULL-DEPTH ASPHALT CONCRETE BASE COURSE (CONNECTOR ROAD)				
REF. NO.	QUANTITY:	UNIT OF MEASURE:	UNIT PRICE	UNIT PRICE EXTENSION ( <i>Quantity times Unit Price</i> )
S-011	56,748.7	SQ YD		

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**UNIT PRICES:** This form shall be used for any and all work required by the Bidding Documents and described as unit prices. Amounts shall be stated in figures and only in figures.

<b>DESCRIPTION:</b> <input checked="" type="checkbox"/> Base Bid or x Alt.# 1 PORTLAND CEMENT CONCRETE PAVEMENT (8" THICK)(CONNECTOR ROAD)				
<b>REF. NO.</b>	<b>QUANTITY:</b>	<b>UNIT OF MEASURE:</b>	<b>UNIT PRICE</b>	<b>UNIT PRICE EXTENSION (<i>Quantity times Unit Price</i>)</b>
601-01-00100-A	-55,546.9	SQ YD		
<b>DESCRIPTION:</b> <input checked="" type="checkbox"/> Base Bid or x Alt.# 1 CONCRETE BARRIER CURB (CONNECTOR ROAD)				
<b>REF. NO.</b>	<b>QUANTITY:</b>	<b>UNIT OF MEASURE:</b>	<b>UNIT PRICE</b>	<b>UNIT PRICE EXTENSION (<i>Quantity times Unit Price</i>)</b>
707-01-00200-A	-20,003.1	LN FT		
<b>DESCRIPTION:</b> <input checked="" type="checkbox"/> Base Bid or x Alt.# 1 CONCRETE MOUNTABLE CURB (CONNECTOR ROAD)				
<b>REF. NO.</b>	<b>QUANTITY:</b>	<b>UNIT OF MEASURE:</b>	<b>UNIT PRICE</b>	<b>UNIT PRICE EXTENSION (<i>Quantity times Unit Price</i>)</b>
707-01-00300-A	-96.0	LN FT		
<b>DESCRIPTION:</b> <input checked="" type="checkbox"/> Base Bid or x Alt.# 1 12" THICK STRUCTURAL FILL (CONNECTOR ROAD)				
<b>REF. NO.</b>	<b>QUANTITY:</b>	<b>UNIT OF MEASURE:</b>	<b>UNIT PRICE</b>	<b>UNIT PRICE EXTENSION (<i>Quantity times Unit Price</i>)</b>
S-002-A	-20,037.7	CU YD		

Wording for "DESCRIPTION" is to be provided by the Owner. All quantities are estimated. The contractor will be paid based upon actual quantities as verified by the Owner

Section 05

**AFFIDAVIT PURSUANT TO LSA-R.S. 38:2224 and 38:2227  
FOR BIDDERS FOR PUBLIC WORKS CONTRACTS**

STATE OF \_\_\_\_\_

PARISH/COUNTY OF \_\_\_\_\_

**BEFORE ME**, the undersigned authority, in and for the above stated State and Parish (or County), personally came and appeared:

\_\_\_\_\_  
Print Name

who, after first being duly sworn, did depose and state:

1. That affiant is appearing on behalf of \_\_\_\_\_, who is seeking a public contract with St. Tammany Parish Government.
2. That affiant employed no person, corporation, firm, association, or other organization, either directly or indirectly, to secure the public contract under which he received payment, other than persons regularly employed by the affiant whose services in connection with the construction, alteration or demolition of the public building or project or in securing the public contract were in the regular course of their duties for affiant; and
3. That no part of the contract price received by affiant was paid or will be paid to any person, corporation, firm, association, or other organization for soliciting the contract, other than the payment of their normal compensation to persons regularly employed by the affiant whose services in connection with the construction, alteration or demolition of the public building or project were in the regular course of their duties for affiant.
4. If affiant is a sole proprietor, that after July 2, 2010, he/she has not been convicted of, or has not entered a plea of guilty or *nolo contendere* to any of the crimes or equivalent federal crimes listed in LSA-R.S. 38:2227(B).
5. If affiant is executing this affidavit on behalf of a juridical entity such as a partnership, corporation, or LLC, etc., that no individual partner, incorporator, director, manager, officer, organizer, or member, who has a minimum of a ten percent ownership in the bidding entity, has been convicted of, or has entered a plea of guilty or *nolo contendere* to any

of the crimes or equivalent federal crimes listed in LSA-R.S. 38:2227(B).

- 6. If affiant is a sole proprietor, that neither affiant, nor his/her immediate family is a public servant of St. Tammany Parish Government or the Contract is not under the supervision or jurisdiction of the public servant's agency.
  
- 7. If affiant is executing this affidavit on behalf of a juridical entity such as a partnership, corporation, or LLC, etc., that no public servant of St. Tammany Parish Government, or his/her immediate family, either individually or collectively, has more than a 25% ownership interest in the entity seeking the Contract with St. Tammany Parish Government if the Contract will be under the supervision or jurisdiction of the public servant's agency.

\_\_\_\_\_  
**Printed Name:** \_\_\_\_\_  
**Title:** \_\_\_\_\_  
**Entity name:** \_\_\_\_\_

**THUS SWORN TO AND SUBSCRIBED BEFORE ME,**  
**THIS \_\_\_\_\_, DAY OF \_\_\_\_\_, 202\_\_.**

\_\_\_\_\_  
**Notary Public**  
**Print Name:** \_\_\_\_\_  
**Notary I.D./Bar No.:** \_\_\_\_\_  
**My commission expires:** \_\_\_\_\_

**AFFIDAVIT PURSUANT TO LSA-R.S. 38:2212.10 CONFIRMING  
REGISTRATION AND PARTICIPATION IN A STATUS VERIFICATION  
SYSTEM**

STATE OF \_\_\_\_\_

PARISH/COUNTY OF \_\_\_\_\_

BEFORE ME, the undersigned authority, in and for the above stated State and Parish (or County), personally came and appeared:

\_\_\_\_\_

Print Name

who, after first being duly sworn, did depose and state:

1. That affiant is appearing on behalf of \_\_\_\_\_, a private employer seeking a bid or a contract with St. Tammany Parish Government for the physical performance of services within the State of Louisiana.
  
2. That affiant is registered and participates in a status verification system to verify that all employees in the state of Louisiana are legal citizens of the United States or are legal aliens; and
  
3. That affiant shall continue, during the term of the contract, to utilize a status verification system to verify the legal status of all new employees in the state of Louisiana.
  
4. That affiant shall require all subcontractors to submit to the affiant a sworn affidavit verifying compliance with this law.

\_\_\_\_\_  
Printed Name: \_\_\_\_\_

Title: \_\_\_\_\_

Name of Entity: \_\_\_\_\_

THUS SWORN TO AND SUBSCRIBED BEFORE ME,  
THIS \_\_\_\_\_, DAY OF \_\_\_\_\_, 202\_\_.

\_\_\_\_\_  
Notary Public

Print Name: \_\_\_\_\_

Notary I.D./Bar No.: \_\_\_\_\_

My commission expires: \_\_\_\_\_





## INSURANCE REQUIREMENTS\*

Construction Project: LA 1077 / LA 21 Connector Road

Bid#: 21-20-2

### **\*\*\*IMPORTANT – PLEASE READ\*\*\***

**Prior to submitting your quote or bid, it is recommended that you review these insurance requirements with your insurance broker/agent.**

*These requirements modify portions of the insurance language found in the General Conditions and/or Supplementary General Conditions; however, there is no intention to remove all sections pertaining to insurance requirements and limits set forth in the General Conditions and/or Supplementary General Conditions, only to amend and specify those items particular for this Project.*

- A. The Provider shall secure and maintain at its expense such insurance that will protect it and St. Tammany Parish Government (the "Parish") from claims for bodily injury, death or property damage as well as from claims under the Workers' Compensation Acts that may arise from the performance of services under this agreement. All certificates of insurance shall be furnished to the Parish and provide thirty (30) days prior notice of cancellation to the Parish, in writing, on all of the required coverage.
- B. All policies shall provide for and certificates of insurance shall indicate the following:
1. Waiver of Subrogation: The Provider's insurers will have no right of recovery or subrogation against the Parish of St. Tammany, it being the intention of the parties that all insurance policy(ies) so affected shall protect both parties and be the primary coverage for any and all losses covered by the below described insurance.
  2. Additional Insured: St. Tammany Parish Government shall be named as Additional Insured with respect to general liability, automobile liability and excess liability coverages, as well as marine liability and pollution/environmental liability, when those coverages are required or necessary.
  3. Payment of Premiums: The insurance companies issuing the policy or policies will have no recourse against St. Tammany Parish Government for payment of any premiums or for assessments under any form of policy.
  4. Deductibles/Self-Insured Retentions: Any deductibles and/or self-insured retentions in the described insurance policies **must be declared on the Certificate of Insurance**, and are both assumed by and the sole risk of the Provider. The Parish will have the sole discretion to accept or reject deductibles and/or self-insured retentions exceeding \$100,000 as it deems appropriate. The Parish may require Provider to produce evidence of verifiable financial ability to satisfy its deductibles and/or self-insured retentions; however, the Parish assumes no liability or obligation resulting from its examination, acceptance, or rejection of information presented.
  5. Project Reference: The project(s) and location(s) shall be referenced in the Comment or Description of Operations section of the Certificate of Insurance (Project ##-###, or Bid # if applicable, Type of Work, Location).
- C. Coverage must be issued by insurance companies authorized to do business in the State of Louisiana. Companies must have an A.M. Best rating of no less than A-, Category VII. St. Tammany Parish Risk Management Department may waive this requirement only for Workers Compensation coverage at their discretion.

Provider shall secure and present proof of insurance on forms acceptable to St. Tammany Parish Government, Office of Risk Management no later than the time of submission of the Contract to the Parish. However, should any work performed under this Contract by or on behalf of Provider include exposures that are not covered by those insurance coverages, Provider is not relieved of its obligation to maintain appropriate levels and types of insurance necessary to protect itself, its agents and employees, its subcontractors, St. Tammany Parish Government (Owner), and all other interested third parties, from any and all claims for damage or injury in connection with the services performed or provided throughout the duration of this Project, as well as for any subsequent periods required under this Contract.

The insurance coverages checked (✓) below are those required for this Contract.

- 1. **Commercial General Liability\*** insurance – **Occurrence Form** - with a Combined Single Limit for bodily injury and property damage of at least \$1,000,000 per Occurrence / \$2,000,000 General Aggregate and \$2,000,000 Products-Completed Operations. Contracts over \$1,000,000 may require higher limits. The insurance shall provide for and the certificate(s) of insurance shall indicate the following coverages:
  - a) Premises - operations;
  - b) Broad form contractual liability;
  - c) Products and completed operations;
  - d) Personal/Advertising Injury;
  - e) Broad form property damage (for Projects involving work on Parish property);
  - f) Explosion, Collapse and Damage to underground property.
  - g) Additional Insured forms CG 2010 and CG 2037 in most current edition are required.
  
- 2. **Business Automobile Liability\*** insurance with a Combined Single Limit of \$1,000,000 per Occurrence for bodily injury and property damage, and shall include coverage for the following:
  - a) Any auto;
  - or**
  - b) Owned autos; **and**
  - c) Hired autos; **and**
  - d) Non-owned autos.
  
- 3. **Workers' Compensation/Employers Liability insurance\*** - Workers' Compensation coverage as required by State law. Employers' liability limits shall be a minimum of \$1,000,000 each accident, \$1,000,000 each disease, \$1,000,000 disease policy aggregate. When water activities are expected to be performed in connection with this project, coverage under the USL&H Act, Jones Act and/or Maritime Employers Liability (MEL) must be included. **Coverage for owners, officers and/or partners in any way engaged in the Project shall be included in the policy.** The names of any excluded individual must be shown in the Description of Operations/Comments section of the Certificate.
  
- 4. **Pollution Liability and Environmental Liability\*** insurance in the minimum amount of \$1,000,000 per occurrence / \$2,000,000 aggregate including full contractual liability and third party claims for bodily injury and/or property damage, for all such hazardous waste, pollutants and/or environmental exposures that may be affected by this project stemming from pollution/environmental incidents as a result of Contractor's operations.

If coverage is provided on a claims-made basis, the following conditions apply:

- 1) the retroactive date must be prior to or coinciding with the effective date of the Contract, or prior to the commencement of any services provided by the Contractor on behalf of the Parish, whichever is earlier; AND
- 2) continuous coverage must be provided to the Parish with the same retro date for 24 months following acceptance or termination of the Project by the Parish either by
  - a) continued renewal certificates **OR**
  - b) a 24 month Extended Reporting Period

\*The Certificate must indicate whether the policy is written on an occurrence or claims-made basis and, if claims-made, the applicable retro date must be stated.

5. **Contractor's Professional Liability/Errors and Omissions\*** insurance in the sum of at least \$1,000,000 per claim / \$2,000,000 aggregate is required when work performed by Contractor or on behalf of Contractor includes professional or technical services including, but not limited to, construction administration and/or management, engineering services such as design, surveying, and/or inspection, technical services such as testing and laboratory analysis, and/or environmental assessments. An occurrence basis policy is preferred.

If coverage is provided on a claims-made basis, the following conditions apply:

- 1) the retroactive date must be prior to or coinciding with the effective date of the Contract, or prior to the commencement of any services provided by the Contractor on behalf of the Parish, whichever is earlier; AND
- 2) continuous coverage must be provided to the Parish with the same retro date for 24 months following acceptance or termination of the Project by the Parish either by
  - a) continued renewal certificates **OR**
  - b) a 24 month Extended Reporting Period

\*The Certificate must indicate whether the policy is written on an occurrence or claims-made basis and, if claims-made, the applicable retro date must be stated.

6. **Marine Liability/Protection and Indemnity\*** insurance is required for any and all vessel and/or marine operations in the minimum limits of \$1,000,000 per occurrence / \$2,000,000 per project general aggregate. The coverage shall include, but is not limited to, the basic coverages found in the Commercial General Liability insurance and coverage for third party liability

**\*Excess/Umbrella Liability** insurance may be provided to meet the limit requirements for any Liability coverage. For example: if the General Liability requirement is \$3,000,000 per occurrence, but the policy is only \$1,000,000 per occurrence, then the excess policy should be at least \$2,000,000 per occurrence thereby providing a combined per occurrence limit of \$3,000,000.)

7. **Owners Protective Liability (OPL)** shall be furnished by the Contractor and shall provide coverage in the minimum amount of \$3,000,000 CSL each occurrence / \$3,000,000 aggregate. **St. Tammany Parish Government, ATTN: Risk Management Department, P. O. Box 628, Covington, LA 70434 shall be the first named insured on the policy.**

8. **Builder's Risk Insurance** written on an "all-risk" policy form shall be furnished by Contractor for 100% of the contract cost. Any contract modifications increasing the contract cost will require an increase in the limit of the Builder's Risk policy. Deductibles should not exceed \$5,000 and Contractor shall be responsible for all policy deductibles. This insurance shall cover materials at the site, stored off the site, and in transit. The Builder's Risk Insurance shall include the interests of the Owner, Contractor and Subcontractors and shall terminate only when the Project is accepted in writing. **St. Tammany Parish Government, ATTN: Risk Management Department, P. O. Box 628, Covington, LA 70434 shall be the first named insured on the policy.**

9. **Installation Floater Insurance**, on an "all-risk" form, shall be furnished by Contractor and carried for the full value of the materials, machinery, equipment and labor for each location. The Contractor shall be responsible for all policy deductibles. The Installation Floater Insurance shall provide coverage for property owned by others and include the interests of the Owner, Contractor and Subcontractors and shall terminate only when the Project is accepted in writing. **St. Tammany Parish Government, ATTN: Risk Management Department, P. O. Box 628, Covington, LA 70434 shall be the first named insured on the policy.**

- D. All policies of insurance shall meet the requirements of the Parish prior to the commencing of any work. The Parish has the right, but not the duty, to approve all insurance coverages prior to commencement of work. If any of the required policies are or become unsatisfactory to the Parish as to form or substance; or if a company issuing any policy is or becomes unsatisfactory to the Parish, the Provider shall promptly obtain a new policy, timely submit same to the Parish for approval, and submit a certificate thereof as provided above. The Parish agrees not to unreasonably withhold approval of any insurance carrier selected by Provider. In the event that Parish cannot agree or otherwise authorize a carrier, Provider shall have the option of selecting and submitting a new insurance carrier within 30 days of said notice by the Parish. In the event that the second submission is insufficient or is not approved, then the Parish shall have the unilateral opportunity to thereafter select a responsive and responsible insurance carrier all at the cost of Provider and thereafter deduct from Provider's fee the cost of such insurance.
- E. Upon failure of Provider to furnish, deliver and/or maintain such insurance as above provided, this contract, at the election of the Parish, may be declared suspended, discontinued or terminated. Failure of the Provider to maintain insurance shall not relieve the Provider from any liability under the contract, nor shall the insurance requirements be construed to conflict with the obligation of the Provider concerning indemnification.
- F. Provider shall maintain a current copy of all annual insurance policies and agrees to provide a certificate of insurance to the Parish on an annual basis or as may be reasonably requested for the term of the contract or any required Extended Reporting Period. Provider further shall ensure that all insurance policies are maintained in full force and effect throughout the duration of the Project and shall provide the Parish with annual renewal certificates of insurance evidencing continued coverage, without any prompting by the Parish.
- G. It shall be the responsibility of Provider to require that these insurance requirements are met by all contractors and sub-contractors performing work for and on behalf of Provider. Provider shall further ensure the Parish is named as an additional insured on all insurance policies provided by said contractor and/or sub-contractor throughout the duration of the project.
- H. Certificates of Insurance shall be issued as follows:

**St. Tammany Parish Government  
Attn: Risk Management  
P O Box 628  
Covington, LA 70434**

To avoid contract processing delays, be certain the project name/number is included on all correspondence including Certificates of Insurance.

**\*NOTICE: St. Tammany Parish Government reserves the rights to remove, replace, make additions to and/or modify any and all of the insurance requirements at any time.**

**Any inquiry regarding these insurance requirements should be addressed to:**

**St. Tammany Parish Government  
Office of Risk Management  
P O Box 628  
Covington, LA 70434  
Telephone: 985-898-2797  
Fax: 985-898-3070  
Email: riskman@stpgov.org**

# HOLD HARMLESS AGREEMENT

\_\_\_\_\_ (Contractor) agrees to protect, defend, indemnify, save, and hold harmless St. Tammany Parish Government, its elected and appointed officials, departments, agencies, boards and commissions, its officers, agents servants, employees, including volunteers, from and against any and all claims, demands, expense and liability arising out of injury or death to any person or the damage, loss or destruction of any property to the extent caused by any act or omission of Contractor, its agents, servants, employees, and subcontractors, or any and all costs, expense and/or attorney fees incurred as a result of any claim, demands, and/or causes of action that results under the performance or non-performance of this contract.

\_\_\_\_\_ (Contractor) agrees to investigate, handle, respond to, provide defense for and defend any such claims, demand, or suit, as described in the paragraph above, at its sole expense and agrees to bear all other costs and expenses related thereto, even if it (claims, etc.) is groundless, false or fraudulent.

SIGNED, this \_\_\_\_ day of \_\_\_\_\_, 20\_\_

WITNESSES:

\_\_\_\_\_

Print Name: \_\_\_\_\_

\_\_\_\_\_

Print Name: \_\_\_\_\_

STATE OF \_\_\_\_\_

PARISH/COUNTY OF \_\_\_\_\_

SWORN TO and subscribed before me, Notary, on this \_\_\_\_ day of \_\_\_\_\_, 20\_\_.

\_\_\_\_\_

BY: \_\_\_\_\_  
(Signature of Authorized Officer)

Print Name: : \_\_\_\_\_

Title: \_\_\_\_\_

\_\_\_\_\_

NOTARY PUBLIC

My Commission Expires: \_\_\_\_\_

---

## Please complete the following:

Claims contact for this project will be:

\_\_\_\_\_

(Print name and title of Contact Person)

\_\_\_\_\_

Address

\_\_\_\_\_

Email address

\_\_\_\_\_

Telephone#

\_\_\_\_\_

Cell #

\_\_\_\_\_

Fax #

## Section 07

### Project Signs

#### 1. General

- a. Work to include providing and installing project sign(s) at the beginning of the project. Some projects may require multiple signs. Should more than one sign be required, it will be reflected in the bidding documents.

#### 2. Materials

- a. The printed project sign(s) shall be 3/8" primed Medium Density Overlay (MDO) **OR** 3 millimeter corrugated plastic secured to exterior plywood (4' x 4').
- b. Contractor shall not use previously provided templates and/or fonts.

#### 3. Execution

- a. The sign(s) shall be printed on a project-by-project basis in black and white, using the template and font provided to the Contractor by the St. Tammany Parish Government Project Manager.
- b. All signage proofed and approved by State Tammany Parish Government before project sign(s) are to be produced by the Contractor.
- c. Exact placement of the project sign(s) must be coordinated with, and approved by, the St. Tammany Parish Government Project Manager prior to sign installation.
- d. The sign(s) is to be installed such that the bottom of the sign is a minimum of 5' above the existing ground elevation.
- e. Sign(s) is to be maintained throughout the period of construction. If sign(s) is damaged or destroyed, repair and/or replacement of sign(s) will be at Contractor's expense.
- f. Contractor is responsible for the removal of all project signs upon issuance of final acceptance by the St. Tammany Parish Government Project Manager at no direct pay.
- g. Cost to be included in "Temporary Signs and Barricades

Blank Template of Parish Project Sign:

# PROGRESS



**MICHAEL B. COOPER**  
Parish President

\_\_\_\_\_  
Councilmember Name  
Council District X

**\$XXX,XXX.XX**

Total Dollar \$ amount  
specified here

**Project Name**

Description of  
Project Work

\_\_\_\_\_  
Name of Street, Bridge,  
Subdivision, etc. stated here

\_\_\_\_\_  
Short Description of Project stated here  
(if deemed applicable by the Parish)

Example of a Completed Parish Project Sign:

# PROGRESS



**MICHAEL B. COOPER**  
Parish President

\_\_\_\_\_  
**RYKERT O. TOLEDANO, JR**  
Council District 5

**\$514,444.40**

**Dove Park**  
**Subdivision Drainage**  
Drainage Improvements along  
Swallow St., Sparrow St.,  
Partridge St. and Egret St.

Section 08

**General Conditions for St. Tammany Parish Government**

**This index is for illustrative purposes only and is not intended to be complete nor exhaustive.**

**All bidders/contractors are presumed to have read and understood the entire document. Some information contained in these conditions may not be applicable to all projects.**



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## 01.00 DEFINITIONS OF TERMS

Whenever used in these General Conditions or in other Contract Documents, the following terms shall have the meanings indicated, and these shall be applicable to both the singular and plural thereof.

- 01.01 A.A.S.H.T.O American Association of State Highway and Transportation Officials. When A.A.S.H.T.O. is referred to in these Specifications it takes the meaning of the specification for materials and methods of testing specified by this association and the specification stated is considered to be a part of the Specifications as if written herein in full.
- 01.02 A.C.I American Concrete Institute. When A.C.I. is referred to in these Specifications it takes the meaning of the specification for materials and methods of testing specified by this institute and the specification stated is considered to be a part of the Specifications as if written herein in full.
- 01.03 Addenda Written or graphic instruments issued prior to the opening of bids which clarify, correct, modify or change the bidding or Contract Documents.
- 01.04 Advertisement The written instrument issued by the Owner at the request of the Owner used to notify the prospective bidder of the nature of the Work. It becomes part of the Contract Documents.
- 01.05 Agreement The written agreement or contract between the Owner and the Contractor covering the Work to be performed and the price that the Owner will pay. Other documents, including the Proposal, Addenda, Specifications, plans, surety, insurance, etc., are made a part thereof.
- 01.06 Application for Payment The form furnished by the Owner which is to be used by the Contractor in requesting incremental (progress) payments and which is to include information required by Section 28.01 and an affidavit of the Contractor. The affidavit shall stipulate that progress payments theretofore received from the Owner on account of the Work have been applied by Contractor to discharge in full of all Contractor's obligations reflected in prior applications for payment.
- 01.07 A.S.T.M. American Society of Testing Materials. When A.S.T.M. is referred to in these Specifications it takes the meaning of the specification for materials and methods of testing specified by this society and the specification stated is considered to be a part of the Specifications as if written herein in full.
- 01.08 Bid The offer or Proposal of the Bidder submitted on the prescribed form setting forth all the prices for the Work to be performed.
- 01.09 Bidder Any person, partnership, firm or corporation submitting a Bid for the Work.
- 01.10 Bonds Bid, performance and payment bonds and other instruments of security, furnished by the Contractor and its surety in accordance with the Contract Documents and Louisiana law.



- 01.11 Change Order A written order to the Contractor signed by the Owner authorizing an addition, deletion or revision in the Work, or an adjustment in the Contract Price or the Contract Time after execution of the Agreement.
- 01.12 Contract Documents The Agreement, Addenda, Contractor's Bid and any documentation accompanying or post-bid documentation when attached as an exhibit, the Bonds, these General Conditions, the Advertisement for Bid, Notice to Contractor, all supplementary conditions, the Specifications, the Drawings, together with all Modifications issued after the execution of the Agreement.
- 01.13 Contract Price The total monies payable to the Contractor under the Contract Documents.
- 01.14 Contract Time The number of consecutive calendar days stated in the Agreement for the completion of the Work.
- 01.15 Contractor The person, firm, corporation or provider with whom the Owner has executed the Agreement.
- 01.16 Defective Work Work which is unsatisfactory, faulty or deficient for any reason whatsoever, or does not conform to the Contract Documents, or does not meet the requirements of any inspection, test or approval referred to in the Contract Documents, or has been damaged prior to the Owner's recommendation or acceptance.
- 01.17 Drawings The Drawings and plans which show the character and scope of the Work to be performed and which have been prepared or approved by the Owner and are referred to in the Contract Documents.
- 01.18 Field Order A written order issued by the Owner or his agent which clarifies or interprets the Contract Documents.
- 01.19 Modification (a) A written amendment of the Contract Documents signed by both parties, (b) A Change Order, (c) A written clarification or interpretation issued by the Owner or his agent. Modification may only be issued after execution of the Agreement.
- 01.20 Notice of Award The written notice by Owner to the lowest responsible Bidder stating that upon compliance of the conditions enumerated in the Notice of Award, or enumerated in the Bid documents, the Owner will deliver the Contract Documents for signature. The time for the delivery of the Contract Documents can be extended in conformance with Louisiana Law.
- 01.21 Notice to Contractor Instructions, written or oral given by Owner to Contractor and deemed served if given to the Contractor's superintendent, foreman or mailed to Contractor at his last known place of business.
- 01.22 Notice to Proceed A written notice given by the Owner fixing the date on which the Contract Time will commence, and on which date the Contractor shall start to perform his obligation under the Contract Documents. Upon mutual consent by both parties, the Notice to Proceed may be extended.

- 01.23 Owner St. Tammany Parish Government, acting herein through its duly constituted and authorized representative, including but not limited to the Office of the Parish President or its designee, its Chief Administrative Officer, and/or Legal Counsel. St. Tammany Parish Government (hereinafter, the “Parish”) and Owner may be used interchangeably.
- 01.24 Project The entire construction to be performed as provided in the Contract Documents.
- 01.25 Project Representative The authorized representative of the Owner who is assigned to the Project or any parts thereof.
- 01.26 Proposal The Bid submitted by the Bidder to the Owner on the Proposal form setting forth the Work to be done and the price for which the Bidder agrees to perform the Work.
- 01.27 Shop Drawings All drawings, diagrams, illustrations, brochures, schedules and other data which are prepared by the Contractor, Subcontractor, Manufacturer, Supplier or Distributor and which illustrate the equipment, material or some portion of the Work.
- 01.28 Specifications The Instructions to Bidders, these General Conditions, the Special Conditions and the Technical Provisions. All of the documents listed in the "Table of Contents."
- 01.29 Subcontractor An individual, firm or corporation having a direct Contract with the Contractor or with any other Subcontractor for the performance of a part of the Project Work.
- 01.30 Substantial Completion The date as certified by the Owner or its agent when the construction of the Project or a specified part thereof is sufficiently complete in accordance with the Contract Documents so that the Project or specified part can be utilized for the purposes for which it was intended; or if there is no such certification, the date when final payment is due in accordance with Section 28.
- 01.31 Superintendent Contractor's site representative. The person on the site who is in full and complete charge of the Work.
- 01.32 Time Unless specifically stated otherwise, all time delays shall be calculated in calendar days.
- 01.33 Work Any and all obligations, duties and responsibilities necessary to the successful completion of the Project assigned to or undertaken by the Contractor under the Contract Documents, usually including the furnishing of all labor, materials, equipment and other incidentals.
- 01.34 The terms “he/himself” may be used interchangeably with “it/itself.”
- 02.00 PROPOSAL
- 02.01 All papers bound with or attached to the Proposal Form are a necessary part thereof and must not be detached.

- 02.02 For submitting Bids, the only forms allowed shall be the “Louisiana Uniform Public Work Bid Form”, “Louisiana Uniform Public Works Bid Form Unit Price Form” (if necessary), the Bid Bond, and written evidence of authority of person signing the bid. Necessary copies of the Louisiana Uniform Public Work Forms will be furnished for Bidding. Bound sets of the Contract Documents are for Bidder's information and should not be used in submitting Bids.
- 02.03 Proposal forms must be printed in ink or typed, unless submitted electronically. Illegibility or ambiguity therein may constitute justification for rejection of the Bid.
- 02.04 Each Bid must be submitted in a sealed envelope, unless submitted electronically. The outside of the envelope shall show the name and address of the Bidder, the State Contractor’s License Number of the Bidder (if work requires contractor’s license), and the Project name and number for which the Bid is submitted, along with the Bid number.
- 02.05 The price quoted for the Work shall be stated in words and figures on the Bid Form, and in numbers only on the Unit Price Form. The price in the Proposal shall include all costs necessary for the complete performance of the Work in full conformity with the conditions of the Contract Documents, and shall include all applicable Federal, State, Parish, Municipal or other taxes. The price bid for the items listed on the Unit Price Form will include the cost of all related items not listed, but which are normally required to do the type of Work bid.
- 02.06 The Bid shall be signed by the Bidder. The information required on the Louisiana Uniform Public Work Bid Form must be provided. Evidence of agency, corporate, or partnership authority is required and shall be provided in conformance with LSA-R.S. 38:2212(B).
- 02.07 Only the Contractors licensed by the State to do the type of Work involved can submit a Proposal for the Work. The envelope containing the Proposal shall have the Contractor's license number on it. Failure to be properly licensed constitutes authority by the Owner for rejection of Bid.
- 02.08 Bidders shall not attach any conditions or provisions to the Proposal. Any conditions or provisions so attached may, at the sole option of the Owner, cause rejection of the Bid or Proposal.
- 02.09 A Bid Guarantee of five percent (5%) of the amount of the total Bid, including Alternates, must accompany the Proposal and, at the option of the Bidder, may be a cashier's check, certified check or a satisfactory Bid Bond. The Bid Guarantee must be attached to the Louisiana Uniform Public Work Bid Form. No Bid will be considered unless it is so guaranteed. Cashier's check or certified check must be made payable to the order of the Owner. Cash deposits will not be accepted. The Owner reserves the right to cash or deposit the cashier's check or certified check. Such guarantees shall be made payable to the Parish of St. Tammany. In accordance with LSA-R.S. 38:2218(C), if a bid bond is used, it shall be written by a surety or insurance company currently on the U.S. Department of the Treasury Financial Management Service list of approved bonding companies which is published annually in the Federal Register, or by a Louisiana domiciled insurance company with at least an A- rating in the latest printing of the A.M. Best's Key Rating Guide to write

individual bonds up to ten percent of policyholders' surplus as shown in the A.M. Best's Key Rating Guide, or by an insurance company in good standing licensed to write bid bonds which is either domiciled in Louisiana or owned by Louisiana residents. It is **not** required to be on any AIA form.

- 02.10 Bid securities of the three (3) lowest Bidders will be retained by the Owner until the Contract is executed or until final disposition is made of the Bids submitted. Bid securities of all other Bidders will be returned promptly after the canvas of Bids. Bids shall remain binding for forty-five (45) days after the date set for Bid Opening. The Parish shall act within the forty-five (45) days to award the contract to the lowest responsible bidder or reject all bids as permitted by Public Bid Law. However, the Parish and the lowest responsible bidder, by mutual written consent, may agree to extend the deadline for award by one or more extensions of thirty (30) calendar days. In the event the Owner issued the Letter of Award during this period, or any extension thereof, the Bid accepted shall continue to remain binding until the Execution of the Contract.
- 02.11 A Proposal may be withdrawn at any time prior to the scheduled closing time for receipt of Bids, provided the request is in writing, executed by the Bidder or its duly authorized representative and is filed with the Owner prior to that time. When such a request is received, the Proposal will be returned to the Bidder unopened.
- 02.12 Written communications, over the signature of the Bidder, to modify Proposals will be accepted and the Proposal corrected in accordance therewith if received by the Owner prior to the scheduled closing time for receipt of Bids. Oral, telephonic or telegraphic Modifications will not be considered.
- 02.13 No oral interpretation obligating the Owner will be made to any Bidder as to the meaning of the Drawings, Specifications and Contract Documents. Every request for such an interpretation shall be made in writing and addressed and forwarded to the Owner. No inquiry received within seven (7) days prior to the day fixed for opening of the Bids shall be given consideration. Every interpretation made to the Bidder shall be in the form of an addendum to the Specifications. All such Addenda shall become part of the Contract Documents. Failure of Bidder to receive any such interpretation shall not relieve any Bidder from any obligation under this Bid. All Addenda shall be issued in accordance with the Public Bid Law, LSA-R.S. 38:2212(O)(2)(a) and (b).
- 02.14 The Owner reserves the right to reject any or all Bids for just cause in accordance with the Public Bid Law, LSA-R.S. 38:2214(B). Incomplete, informal or unbalanced Bids may be rejected. Reasonable grounds for belief that any one Bidder is concerned directly or indirectly with more than one Bid will cause rejection of all Bids wherein such Bidder is concerned. If required, a Bidder shall furnish satisfactory evidence of its competence and ability to perform the Work stipulated in its Proposal. Incompetence will constitute cause for rejection. If the Parish determines that the bidder is not responsive or responsible for any reason whatsoever, the bid may be rejected in accordance with State law.
- 02.15 The Contractor shall indemnify and hold harmless the Owner from any and all suits, costs, penalties or claims for infringement by reason of use or installation of any patented design, device, material or process, or any trademark and copyright in connection with the Work agreed to be performed under this Contract, and shall indemnify and hold harmless the

Owner for any costs, expenses and damages which it may be obliged to pay by reason of any such infringement at any time during the prosecution or after completion of the Work.

- 02.16 Bidders shall familiarize themselves with and shall comply with all applicable Federal and State Laws, municipal ordinances and the rules and regulations of all authorities having jurisdiction over construction of the Project, which may directly or indirectly affect the Work or its prosecution. These laws and/or ordinances will be deemed to be included in the Contract, as though herein written in full.
- 02.17 Each Bidder shall visit the site of the proposed Work and fully acquaint itself with all surface and subsurface conditions as they may exist so that it may fully understand this Contract. Bidder shall also thoroughly examine and be familiar with drawings, Specifications and Contract Documents. The failure or omission of any Bidder to receive or examine any form instrument, Drawing or document or to visit the site and acquaint itself with existing conditions, shall in no way relieve any Bidder from any obligation with respect to its Bid and the responsibility in the premises.
- 02.18 The standard contract form enclosed with the Proposal documents is a prototype. It is enclosed with the Contract Documents for the guidance of the Owner and the Contractor. It has important legal consequences in all respects and consultation with an attorney is encouraged. Contractor shall be presumed to have consulted with its own independent legal counsel.
- 02.19 When one set of Contract plans show the Work to be performed by two or more prime Contractors, it is the responsibility of each Bidder to become knowledgeable of the Work to be performed by the other where the Work upon which this bid is submitted is shown to come into close proximity or into conflict with the Work of the other. In avoiding conflicts, pressure pipe lines must be installed to avoid conflict with gravity pipe lines and the Bidder of the smaller gravity pipe line in conflict with the larger gravity pipe line must include in his Bid the cost of a conflict box at these locations. The location of and a solution to the conflicts do not have to be specifically noted as such on the plans.
- 02.20 Bidder shall execute affidavit(s) attesting compliance with LSA-R.S. 38:2212.10, 38:2224, 38:2227, each as amended, and other affidavits as required by law, prior to execution of the contract.
- 02.21 Sealed Proposals (Bid) shall be received by St. Tammany Parish Government at the office of St. Tammany Parish Government, Department of Procurement, 21454 Koop Drive, Suite 2-F, Mandeville, LA 70471, until the time and date denoted in Notice to Bidders, at which time and place the Proposals (Bids), shall be publicly opened and read aloud to those present. In accordance with LSA-R.S. 38-2212(A)(3)(c)(i), the designer's final estimated cost of construction shall be read aloud upon opening bids. Sealed Proposals (Bids) may also be mailed by certified mail to St. Tammany Parish Government, Department of Procurement, 21454 Koop Drive, Suite 2-F, Mandeville, LA 70471, and must be received before the bid opening. Bids may also be submitted electronically. Information concerning links for electronic bidding is contained in the Notice to Bidders.

- 02.22 Proposals (Bids) shall be executed on Forms furnished and placed in a sealed envelope, marked plainly and prominently as indicated in the Notice to Bidders, and these General Conditions, and addressed:

St. Tammany Parish Government  
Department of Procurement  
21454 Koop Drive, Suite 2-F  
Mandeville, LA 70471

- 02.23 Complete sets of Drawings, Specifications, and Contract Documents may be secured at the Office of the Owner. See Notice to Bidders for deposit schedule.
- 02.24 The successful bidder shall be required to post in each direction a public information sign, 4' x 8' in size, at the location of the project containing information required by the Owner. The Owner shall supply this information.

03.00 AWARD, EXECUTION OF DOCUMENTS, BONDS, ETC.

- 03.01 The award of the Contract, if it is awarded, will be to the lowest responsible Bidder, in accordance with State Law. No award will be made until the Owner has concluded such investigations as it deems necessary to establish the responsibility, qualifications and financial ability and stability of the Bidder to do the Work in accordance with the Contract Documents to the satisfaction of the Owner within the time prescribed as established by the Department based upon the amount of work to be performed and the conditions of same. The written contract and bond shall be issued in conformance with LSA-R.S. 38:2216. The Owner reserves the right to reject the Bid of any Bidder in accordance with the Public Bid Law, LSA-R.S. 38:2214. If the Contract is awarded, the Owner shall give the successful Bidder written notice of the award within forty-five (45) calendar days after the opening of the Bids in conformance with LSA-R.S. 38:2215(A), or any extension as authorized thereunder.
- 03.02 At least three counterparts of the Agreement and of such other Contract Documents as practicable shall be signed by the Owner and the Contractor. The Owner shall identify those portions of the Contract Documents not so signed and such identification shall be binding on both parties. The Owner and the Contractor shall each receive an executed counterpart of the Contract Documents.
- 03.03 Prior to the execution of the Agreement, the Contractor shall deliver to the Owner the required Bonds.
- 03.04 Failure of the successful Bidder to execute the Agreement and deliver the required Bonds within twenty (20) days of the Notice of the Award shall be just cause for the Owner to annul the award and declare the Bid and any guarantee thereof forfeited.
- 03.05 In order to ensure the faithful performance of each and every condition, stipulation and requirement of the Contract and to indemnify and save harmless the Owner from any and all damages, either directly or indirectly arising out of any failure to perform same, the successful Bidder to whom the Contract is awarded shall furnish a surety Bond in an

amount of at least equal to one hundred percent (100%) of the Contract Price. The Contract shall not be in force or binding upon the Owner until such satisfactory Bond has been provided to and approved by the Parish. The cost of the Bond shall be paid for by the Contractor unless otherwise stipulated in the Special Provisions.

03.06 No surety Company will be accepted as a bondsman who has no permanent agent or representative in the State upon whom notices referred to in the General Conditions of these Specifications may be served. Services of said notice on said agent or representative in the State shall be equal to service of notice on the President of the Surety Company, or such other officer as may be concerned.

03.07 In conformance with LSA-R.S. 38:2219(A)(1)(a), (b), and (c):

Any surety bond written for a public works project shall be written by a surety or insurance company currently on the U.S. Department of the Treasury Financial Management Service list of approved bonding companies which is published annually in the Federal Register, or by a Louisiana domiciled insurance company with at least an A- rating in the latest printing of the A.M. Best's Key Rating Guide, to write individual bonds up to ten percent of policyholders' surplus as shown in the A.M. Best's Key Rating Guide or by an insurance company that is either domiciled in Louisiana or owned by Louisiana residents and is licensed to write surety bonds.

For any public works project, no surety or insurance company shall write a bond which is in excess of the amount indicated as approved by the U.S. Department of the Treasury Financial Management Service list or by a Louisiana domiciled insurance company with an A- rating by A.M. Best up to a limit of ten percent of policyholders' surplus as shown by A.M. Best; companies authorized by this Paragraph who are not on the treasury list shall not write a bond when the penalty exceeds fifteen percent of its capital and surplus, such capital and surplus being the amount by which the company's assets exceed its liabilities as reflected by the most recent financial statements filed by the company with the Department of Insurance.

In addition, any surety bond written for a public works project shall be written by a surety or insurance company that is currently licensed to do business in the state of Louisiana. All contractors must comply with any other applicable provisions of LSA-R.S. 38:2219.

03.08 Should the Contractor's Surety, even though approved and accepted by the Owner, subsequently remove its agency or representative from the State or become insolvent, bankrupt, or otherwise fail, the Contractor shall immediately furnish a new Bond in another company approved by the Owner, at no cost to the Owner. The new Bond shall be executed under the same terms and conditions as the original Bond. The new bond shall be submitted within thirty (30) days of such time as the Owner notifies Contractor or from the time Contractor learns or has reason to know that the original surety is no longer financially viable or acceptable to the Parish, whichever occurs first. In the event that Contractor fails or refuses to timely secure additional surety, then the Owner may secure such surety and thereafter deduct such cost or expense from any sum due or to become due Contractor.

03.09 The Contractor's bondsman shall obligate itself to all the terms and covenants of these Specifications and of contracts covering the Work executed hereunder. The Owner reserves

the right to do Extra Work or make changes by altering, adding to deducting from the Work under the conditions and in the manner herein before described without notice to the Contractor's surety and without in any manner affecting the liability of bondsman or releasing it from any of its obligations hereunder.

- 03.10 The Bond shall also secure for the Owner the faithful performance of the Contract in strict accordance with plans and Specifications. It shall protect the Owner against all lien laws of the State and shall provide for payment of reasonable attorney fees for enforcement of Contract and institution or concursus proceedings, if such proceedings become necessary. Likewise, it shall provide for all additional expenses of the Owner occurring through failure of the Contractor to perform.
- 03.11 The surety of the Contractor shall be and does hereby declare and acknowledge itself by acceptance to be bound to the Owner as a guarantor, jointly and in solido, with the Contractor, for fulfillment of terms of Section 03.00.
- 03.12 The performance Bond and Labor and Material Bond forming part of this Contract shall be continued by Contractor and its Surety for a period of one (1) year from date of acceptance of this Contract by Owner to assure prompt removal and replacement of all defective material, equipment, components thereof, workmanship, etc., and to assure payment of any damage to property of Owner or others as a result of such defective materials, equipment, workmanship, etc.
- 03.13 Contractor shall pay for the cost of recording the Contract and Bond and the cost of canceling same. Contractor shall also secure and pay for all Clear Lien and Privilege Certificates (together with any updates) which will be required before any final payment is made, and that may be required before any payment, at the request of the Owner, its representative, agent, architect, engineer and the like. All recordation and Clear Lien and Privilege Certificate requirements shall be in accordance with those requirements noted herein before in contract Specifications.

#### 04.00 SUBCONTRACTS

- 04.01 Contractor shall be fully responsible for all acts and omissions of its Subcontractors and of persons and organizations for whose acts any of them may be liable to the same extent that it is responsible for the acts and omissions of persons directly employed by it. Nothing in the Contract Documents shall create any contractual relationship between Owner and any Subcontractor or other person or organization having a direct Contract with Contractor, nor shall it create any obligation on the part of the Owner to pay or to see to the payment of any monies due any Subcontractor.
- 04.02 Nothing in the Contract Documents shall be construed to control the Contractor in dividing the Work among approved Subcontractors or delineating the Work to be performed by any trade.
- 04.03 The Contractor agrees to specifically bind every Subcontractor to all of the applicable terms and conditions of the Contract Documents prior to commencing Work. Every



Subcontractor, by undertaking to perform any of the Work, shall thereby automatically be deemed bound by such terms and conditions.

04.04 The Contractor shall indemnify and hold harmless the Owner 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 Contractor's failure to bind every Subcontractor and Contractor's surety to all of the applicable terms and conditions of the Contract Documents.

05.00 ASSIGNMENT

05.01 Neither party to this Contract shall assign or sublet its interest in this Contract without prior written consent of the other, nor shall the Contractor assign any monies due or to become due to it under this Contract without previous written consent of the Owner, nor without the consent of the surety unless the surety has waived its right to notice of assignment.

06.00 CORRELATION, INTERPRETATION AND INTENT OF CONTRACT DOCUMENTS.

06.01 It is the intent of the Specifications and Drawings to describe a complete Project to be constructed in accordance with the Contract Documents. The Contract Documents comprise the entire Agreement between Owner and Contractor. Alterations, modifications and amendments shall only be in writing between these parties.

06.02 The Contract Documents are intended to be complimentary and to be read *in pari materii*, and what is called for by one is as binding as if called for by all. If Contractor finds a conflict, error or discrepancy in the Contract Documents, it shall call it to the Owner's attention, in writing, at once and before proceeding with the Work affected thereby; however, it shall be liable to Owner for its failure to discover any conflict, error or discrepancy in the Specifications or Drawings. In resolving such conflicts, errors and discrepancies, the documents shall be given precedence in the following order: Agreement, Modifications, Addenda, Special Conditions, General Conditions, Construction Specifications and Drawings. The general notes on the plans shall be considered special provisions. Figure dimensions on Drawings shall govern over scale dimensions and detail Drawings shall govern over general Drawings. Where sewer connections are shown to fall on a lot line between two lots, the Contractor shall determine this location by measurement not by scale. Any Work that may reasonably be inferred from the Specifications or Drawings as being required to produce the intended result shall be supplied whether or not it is specifically called for. Work, materials or equipment described herein which so applied to this Project are covered by a well-known technical meaning or specification shall be deemed to be governed by such recognized standards unless specifically excluded.

06.03 Unless otherwise provided in the Contract Documents, the Owner will furnish to the Contractor (free of charge not to exceed ten (10) copies) Drawings and Specifications for the execution of Work. The Drawings and Specifications are the property of the Owner and are to be returned to it when the purpose for which they are intended have been served. The Contractor shall keep one copy of all Drawings and Specifications, including revisions, Addenda, details, Shop Drawings, etc. on the Work in good order and available to the

Owner or the regulatory agency of the governmental body having jurisdiction in the area of the Work.

#### 07.00 SHOP DRAWINGS, BROCHURES AND SAMPLES

- 07.01 After checking and verifying all field measurements, Contractor shall submit to Owner for approval, five copies (or at Owner's option, one reproducible copy) of all Shop Drawings, which shall have been checked by and stamped with the approval of Contractor and identified as Owner may require. The data shown on the Shop Drawings will be complete with respect to dimensions, design criteria, materials of construction and the like to enable Owner to review the information as required.
- 07.02 Contractor shall also submit to Owner, for review with such promptness as to cause no delay in Work, all samples as required by the Contract Documents. All samples will have been checked by and stamped with the approval of Contractor identified clearly as to material, manufacturer, any pertinent catalog numbers and the use for which intended. At the time of each submission, Contractor shall in writing call Owner's attention to any deviations that the Shop Drawings or samples may have from the requirements of the Contract Documents.
- 07.03 Owner will review with reasonable promptness Shop Drawings and samples, but its review shall be only for conformance with the design concept of the Project and for compliance with the information given in the Contract Documents. The review of a separate item as such will not indicate approval of the assembly in which the item functions. Contractor shall make any corrections required by Owner and shall return the required number of corrected copies of Shop Drawings and resubmit new samples for review. Contractor shall direct specific attention in writing or on resubmitted Shop Drawings to revisions other than the corrections called for by Owner on previous submissions. Contractor's stamp of approval on any Shop Drawing or sample shall constitute a representation to Owner that Contractor has determined and verified all quantities, dimensions, field construction criteria, materials catalog numbers and similar data and thereafter assumes full responsibility for doing so, and that it has reviewed or coordinated each Shop Drawing or sample with the requirements of the Work and the Contract Documents.
- 07.04 Where a Shop Drawing or sample submission is required by the Specifications, no related Work shall be commenced until the submission has been reviewed by Owner. A copy of each reviewed shop Drawing and each inspected sample shall be kept in good order by Contractor at the site and shall be available to Owner.
- 07.05 Owner's review of Shop Drawings or samples shall not relieve Contractor from its responsibility for any deviations from the requirements of the Contract Documents unless Contractor has in writing called Owner's attention to such deviation at the time of submission and Owner has given written approval to the specific deviation, nor shall any review by Owner relieve Contractor from responsibility for errors or omissions in the Shop Drawings. The mere submittal of shop drawings which contain deviations from the requirements of plans, specifications and/or previous submittals in itself does not satisfy this requirement.

## 08.00 RECORD DRAWINGS

- 08.01 The Contractor shall keep an accurate record in a manner approved by the Owner of all changes in the Contract Documents during construction. In Work concerning underground utilities, the Contractor shall keep an accurate record in a manner approved by the Owner of all valves, fittings, etc. Before the Work is accepted by the Owner, and said acceptance is recorded, the Contractor shall furnish the Owner a copy of this record.
- 08.02 Contractor shall keep an accurate drawing measured in the field to the nearest 0.1' of the location of all sewer house connections. The location shown shall be the end of the connection at the property line measured along the main line of pipe from a manhole.
- 08.03 Contractor shall keep an accurate drawing of the storm water drainage collection system. Inverts to the nearest 0.01' and top of castings shall be shown as well as location of all structures to the nearest 0.1'. Upon completion of the Work, the plan will be given to the Owner.

## 09.00 PROGRESS OF WORK

- 09.01 Contractor shall conduct the Work in such a professional manner and with sufficient materials, equipment and labor as is considered necessary to ensure its completion within the time limit specified.
- 09.02 The Owner shall issue a Notice to Proceed to the Contractor within twenty (20) calendar days from the date of execution of the Contract. Upon mutual consent by both parties, the Notice to Proceed may be extended. The Contractor is to commence Work under the Contract within ten (10) calendar days from the date the Notice to Proceed is issued by the Owner.
- 09.03 The Contractor, immediately after being awarded the Contract, shall prepare and submit for the Owner's approval an estimated progress schedule for the work to be performed, as well as a construction signing layout for all roads within the project area. The Contractor shall not start work or request partial payment until the work schedule has been submitted to the Owner for approval.
- 09.04 Revisions to the original schedule will be made based on extension of days granted for inclement weather or change orders issued under the contract. No other revision shall be made which affects the original completion or updated completion date, whichever is applicable.
- 09.05 Failure of the Contractor to submit an estimated progress schedule or to complete timely and on schedule the Work shown on the progress schedule negates any and all causes or claims by the Contractor for accelerated completion damages. These accelerated damage claims shall be deemed forfeited.
- 09.06 Meetings will be held as often as necessary to expedite the progress of the job. Meetings will be held during normal working hours at the jobsite and shall be mandatory for the

Contractor and all Sub-Contractors working on the project. Meetings may be requested by the Owner at any time and at the discretion of the Owner.

#### 10.00 OWNER'S RIGHT TO PROCEED WITH PORTIONS OF THE WORK

- 10.01 Upon failure of the Contractor to comply with any notice given in accordance with the provisions hereof, the Owner shall have the alternative right, instead of assuming charge of the entire Work, to place additional forces, tools, equipment and materials on parts of the Work. The cost incurred by the Owner in carrying on such parts of the Work shall be payable by the Contractor. Such Work shall be deemed to be carried on by the Owner on account of the Contractor. The Owner may retain all amounts of the cost of such Work from any sum due Contractor or those funds that may become due to Contractor under this Agreement.
- 10.02 Owner may perform additional Work related to the Project by itself or it may let any other direct contract which may contain similar General Conditions. Contractor shall afford the other contractors who are parties to such different contracts (or Owner, if it is performing the additional Work itself) reasonable opportunity for the introduction and storage of materials and equipment and the execution of Work, and shall properly connect and coordinate its Work with the subsequent work.
- 10.03 If any part of Contractor's Work depends upon proper execution or results upon the Work of any such other contractor (or Owner), Contractor shall inspect and promptly report to Owner in writing any defects or deficiencies in such Work that render it unsuitable for such proper execution and results. Failure to so report shall constitute an acceptance of the other Work as fit and proper for the relationship of its Work except as to defects and deficiencies which may appear in the other Work after the execution of its Work.
- 10.04 Whatever Work is being done by the Owner, other Contractors or by this Contractor, the parties shall respect the various interests of the other parties at all times. The Owner may, at its sole discretion, establish additional rules and regulations concerning such orderly respect of the rights of various interests.
- 10.05 Contractor shall do all cutting, fitting and patching of its Work that may be required to integrate its several parts properly and fit to receive or be received by such other Work. Contractor shall not endanger any Work of others by cutting, excavating or otherwise altering Work and will only alter Work with the written consent of Owner and of the other contractors whose Work will be affected.
- 10.06 If the performance of additional Work by other contractors or Owner is not noted in the Contract Documents, written notice thereof shall be given to Contractor prior to starting any such additional Work. If Contractor believes that the performance of such additional Work by Owner or others may cause additional expense or entitles an extension of the Contract Time, the Contractor may make a claim therefor. The claim must be in writing to the Owner within thirty (30) calendar days of receipt of notice from the Owner of the planned additional Work by others.

## 11.00 TIME OF COMPLETION

- 11.01 The Notice to Proceed will stipulate the date on which the Contractor shall begin work. That date shall be the beginning of the Contract Time charges.
- 11.02 Contractor shall notify the Owner through its duly authorized representative, in advance, of where Contractor's work shall commence each day. A daily log shall be maintained by Contractor to establish dates, times, persons contacted, and location of work. Specific notice shall be made to the Owner if the Contractor plans to work on Saturday, Sunday, or a Parish approved holiday. If notice is not received, no consideration will be given for inclement weather and same shall be considered a valid work day.
- 11.03 The Work covered by the Plans, Specifications and Contract Documents must be completed sufficiently for acceptance within the number of calendar days specified in the Proposal and/or the Contract, commencing from the date specified in the Notice to Proceed. It is hereby understood and mutually agreed, by and between the Contractor and the Owner, that the time of completion is an essential condition of this Contract, and it is further mutually understood and agreed that if the Contractor shall neglect, fail or refuse to complete the Work within the time specified, or any proper extension thereof granted by the Owner, then the Contractor does hereby agree, as partial consideration for the awarding of this Contract, to pay the Owner \$500.00 per day as specified in the Contract, not as a penalty, but as liquidated damages for such breach of contract for each and every calendar day that the Contractor shall be in default after the time stipulated in the Contract for completing the Work. It is specifically understood that the Owner shall also be entitled to receive a reasonable attorney fee and all costs in the event that Contractor fails to adhere to this agreement and this contract is referred to counsel for any reason whatsoever. Reasonable attorney fees shall be the prevailing hourly rate of the private sector, and in no event shall the hourly rate be less than \$175.00 per hour. All attorney fees shall be paid to the operating budget of the Office of the Parish President.
- 11.04 Prior to final payment, the Contractor may, in writing to the Owner, certify that the entire Project is substantially complete and request that the Owner or its agent issue a certificate of Substantial Completion. See Section 29.00.
- 11.05 The Owner may grant an extension(s) of time to the Contractor for unusual circumstances which are beyond the control of the Contractor and could not reasonably be foreseen by the Contractor prior to Bidding. Any such request must be made in writing to the Owner within seven (7) calendar days following the event occasioning the delay. The Owner shall have the exclusive and unilateral authority to determine, grant, and/or deny the validity of any such claim.
- 11.06 Extensions of time for inclement weather shall be processed as follows:

Commencing on the start date of each job, the Parish Inspector assigned to same shall keep a weekly log, indicating on each day whether inclement weather has prohibited the Contractor from working on any project within the specific job, based upon the following:

1. Should the Contractor prepare to begin work on any day in which inclement weather, or the conditions resulting from the weather, prevent work from

beginning at the usual starting time, and the crew is dismissed as a result, the Contractor will not be charged for a working day whether or not conditions change during the day and the rest of the day becomes suitable for work.

2. If weather conditions on the previous day prevent Contractor from performing work scheduled, provided that no other work can be performed on any project within the package. The Parish Inspector shall determine if it is financially reasonable to require the Contractor to deviate from the schedule and relocate to another location.
3. If the Contractor is unable to work at least 60% of the normal work day due to inclement weather, provided that a normal working force is engaged on the job.

Any dispute of weather conditions as related to a specific job shall be settled by records of the National Weather Service.

#### 11.07 Extensions of time for change orders

When a change order is issued, the Owner and Contractor will agree on a reasonable time extension, if any, to implement such change. Consideration shall be given for, but not limited to, the following:

1. If material has to be ordered;
2. Remobilization and or relocation of equipment to perform task; and
3. Reasonable time frame to complete additional work.

Time extensions for change orders shall be reflected on the official document signed by the Owner and Contractor.

11.08 At the end of each month, the Owner or its agent will furnish to the Contractor a monthly statement which reflects the number of approved days added to the contract. The Contractor will be allowed fourteen (14) calendar days in which to file a written protest setting forth in what respect the monthly statement is incorrect; otherwise, the statement shall be considered accepted by the Contractor as correct.

11.09 Apart from extension of time for unavoidable delays, no payment or allowance of any kind shall be made to the Contractor as compensation for damages because of hindrance or delay for any cause in the progress of the Work, whether such delay be avoidable or unavoidable.

#### 12.00 LIQUIDATED DAMAGES

12.01 In case the Work is not completed in every respect within the time that may be extended, it is understood and agreed that per diem deductions of the sum of \$500.00 for liquidated damages, as stipulated in the Proposal and/or Contract, shall be made from the total Contract Price for each and every calendar day after and exclusive of the day on which completion was required, and up to the completion of the Work and acceptance thereof by

the Owner. It is understood and agreed that time is of the essence to this Contract, and the above sum being specifically herein agreed upon in advance as the measure of damages to the Owner on account of such delay in the completion of the Work. It is further agreed that the expiration of the term herein assigned or as may be extended for performing the Work shall, *ipso facto*, constitute a putting in default, the Contractor hereby waiving any and all notice of default. The Contractor agrees and consents that the Contract Price, reduced by the aggregate of the entire damages so deducted, shall be accepted in full satisfaction of all Work executed under this Contract. It is further understood and agreed that Contractor shall be liable for a reasonable attorney fee and all costs associated with any breach of this agreement, including but not limited to this subsection. In the event that any dispute or breach herein causes referrals to counsel, then Contractor agrees to pay a reasonable attorney fee at the prevailing hourly rate of the private sector. In no event shall the hourly rate be less than \$175.00 per hour.

### 13.00 LABOR, MATERIALS, EQUIPMENT, SUPERVISION, PERMITS AND TAXES

- 13.01 The Contractor shall provide and pay for all labor, materials, equipment, supervision, subcontracting, transportation, tools, fuel, power, water, sanitary facilities and all incidentals necessary for the completion of the Work in substantial conformance with the Contract Documents.
- 13.02 The Contractor shall provide competent, suitably qualified personnel to survey and lay out the Work and perform construction as required by the Contract Documents. It shall at all times maintain good discipline and order at the site.
- 13.03 Unless otherwise specifically provided for in the Specifications, all workmanship, equipment, materials, and articles incorporated in the Work covered by this Contract are to be new and of the best grade of their respective kinds for the purpose intended. Samples of materials furnished under this Contract shall be submitted for approval to the Owner when and as directed.
- 13.04 Whenever a material or article required is specified or shown on the plans by using the name of a proprietary product or of a particular manufacturer or vendor, any material or article which shall perform adequately the duties imposed by the general design will be considered equal, and satisfactory, providing the material or article so proposed is of equal substance and function and that all technical data concerning the proposed substitution be approved by the Owner prior to the Bidding. The Owner shall have the exclusive and unilateral discretion to determine quality and suitability in accordance with LSA-R.S. 38:2212(T)(2).
- 13.05 Materials shall be properly and securely stored so as to ensure the preservation of quality and fitness for the Work, and in a manner that leaves the material accessible to inspection. Materials or equipment may not be stored on the site in a manner such that it will interfere with the continued operation of streets and driveways or other contractors working on the site.
- 13.06 The Contractor, by entering into the Contract for this Work, sets itself forth as an expert in the field of construction and it shall supervise and direct the Work efficiently and with its

best skill and attention. It shall be solely responsible for the means, methods, techniques, sequences and procedures of construction.

- 13.07 Contractor shall keep on the Work, at all times during its progress, a competent resident Superintendent, who shall not be replaced without written Notice to Owner except under extraordinary circumstances. The Superintendent will be Contractor's representative at the site and shall have authority to act on behalf of Contractor. All communications given to the Superintendent shall be as binding as if given to the Contractor. Owner specifically reserves the right to approve and/or disapprove the retention of a new superintendent, all to not be unreasonably withheld.
- 13.08 Any foreman or workman employed on this Project who disregards orders or instructions, does not perform his Work in a proper and skillful manner, or is otherwise objectionable, shall, at the written request of the Owner, be removed from the Work and shall be replaced by a suitable foreman or workman.
- 13.09 The Contractor and/or its assigned representative shall personally ensure that all subcontracts and divisions of the Work are executed in a proper and workmanlike manner, on scheduled time, and with due and proper cooperation.
- 13.10 Failure of the Contractor to keep the necessary qualified personnel on the Work shall be considered cause for termination of the Contract by the Owner.
- 13.11 Only equipment in good working order and suitable for the type of Work involved shall be brought onto the job and used by the Contractor. The Contractor is solely responsible for the proper maintenance and use of its equipment and shall hold the Owner harmless from any damages or suits for damages arising out of the improper selection or use of equipment. No piece of equipment necessary for the completion of the Work shall be removed from the job site without approval of the Owner.
- 13.12 All Federal, State and local taxes due or payable during the time of Contract on materials, equipment, labor or transportation, in connection with this Work, must be included in the amount bid by the Contractor and shall be paid to proper authorities before acceptance. The Contractor shall furnish all necessary permits and certificates and comply with all laws and ordinances applicable to the locality of the Work. The cost of all inspection fees levied by any governmental entity whatsoever shall be paid for by the Contractor.
- 13.13 In accordance with St. Tammany Police Jury Resolution 86-2672, as amended, the Contractor must provide in a form suitable to the Owner an affidavit stating that all applicable sales taxes for materials used on this project have been paid.
- 13.14 During the period that this Contract is in force, neither party to the Contract shall solicit for employment or employ an employee of the other.
- 13.15 All materials or equipment shown on the Drawings or included in these specifications shall be furnished unless written approval of a substitute is obtained from the Designer, or Owner if no separate designer.



13.16 If a potential supplier wishes to submit for prior approval a particular product other than a product specified in the contract documents, he shall do so no later than seven working days prior to the opening of bids. Within three days, exclusive of holidays and weekends, after such submission, the prime design professional shall furnish to both the public entity and the potential supplier written approval or denial of the product submitted. The burden of proof of the equality of the proposed substitute is upon the proposer and only that information formally submitted shall be used by the Designer in making its decision.

13.17 The decision of the Designer/Owner shall be given in good faith and shall be final.

#### 14.00 QUANTITIES OF ESTIMATE, CHANGES IN QUANTITIES, EXTRA WORK

14.01 Whenever the estimated quantities of Work to be done and materials to be furnished under this Contract are shown in any of the documents, including the Proposal, such are given for use in comparing Bids and the right is especially reserved, except as herein otherwise specifically limited, to increase or diminish same not to exceed twenty-five percent (25%) by the Owner to complete the Work contemplated by this Contract. Such increase or diminution shall in no way vitiate this Contract, nor shall such increase or diminution give cause for claims or liability for damages.

14.02 The Owner shall have the right to make alterations in the line, grade, plans, form or dimensions of the Work herein contemplated, provided such alterations do not change the total cost of the Project, based on the originally estimated quantities, and the unit prices bid by more than twenty-five percent (25%) and provided further that such alterations do not change the total cost of any major item, based on the originally estimated quantities and the unit price bid by more than twenty-five (25%). (A major item shall be construed to be any item, the total cost of which is equal to or greater than ten percent (10%) of the total Contract Price, computed on the basis of the Proposal quantity and the Contract unity price). Should it become necessary, for the best interest of the Owner, to make changes in excess of that herein specified, the same shall be covered by supplemental agreement either before or after the commencement of the Work and without notice to the sureties. If such alterations diminish the quantity of Work to be done, such shall not constitute a claim for damages for anticipated profits for the Work dispensed with, but when the reduction in amount is a material part of the Work contemplated, the Contractor shall be entitled to only reasonable compensation as determined by the Owner for overhead and equipment charges which it may have incurred in expectation of the quantity of Work originally estimated, unless specifically otherwise provided herein; if the alterations increase the amount of Work, the increase shall be paid according to the quantity of Work actually done and at the price established for such Work under this Contract except where, in the opinion of the Owner, the Contractor is clearly entitled to extra compensation.

14.03 Without invalidating the Contract, the Owner may order Extra Work or make changes by altering, adding to, or deducting from the Work, the Contract sum being adjusted accordingly. The consent of the surety must first be obtained when necessary or desirable, all at the exclusive discretion of the Owner. All the Work of the kind bid upon shall be paid for at the price stipulated in the Proposal, and no claims for any Extra Work or material shall be allowed unless the Work is ordered in writing by the Owner.

- 14.04 Extra Work for which there is no price or quantity included in the Contract shall be paid for at a unit price or lump sum to be agreed upon in advance in writing by the Owner and Contractor. Where such price and sum cannot be agreed upon by both parties, or where this method of payment is impracticable, the Owner may, at its exclusive and unilateral discretion, order the Contractor to do such Work on a Force Account Basis.
- 14.05 In computing the price of Extra Work on a Force Account Basis, the Contractor shall be paid for all foremen and labor actually engaged on the specific Work at the current local rate of wage for each and every hour that said foremen and labor are engaged in such Work, plus ten percent (10%) of the total for superintendence, use of tools, overhead, direct & indirect costs/expenses, pro-rata applicable payroll taxes, pro-rata applicable workman compensation benefits, pro-rata insurance premiums and pro-rata reasonable profit. The Contractor shall furnish satisfactory evidence of the rate or rates of such insurance and tax. The Contractor will not be able to collect any contribution to any retirement plans or programs.
- 14.06 For all material used, the Contractor shall receive the actual cost of such material delivered at the site of the Work, as shown by original receipted bill, to which shall be added five percent (5%). There will be absolutely no additional surcharges or additional fees attached hereto with respect to this subsection.
- 14.07 For any equipment used that is owned by the Contractor, the Contractor shall be allowed a rental based upon the latest prevailing rental price, but not to exceed a rental price as determined by the Associated Equipment Distributors (A.E.D. Green Book).
- 14.08 The Contractor shall also be paid the actual costs of transportation for any equipment which it owns and which it has to transport to the Project for the Extra Work. There will be absolutely no additional surcharges or additional fees attached hereto with respect to this subsection.
- 14.09 If the Contractor is required to rent equipment for Extra Work, but not required for Contract items, it will be paid the actual cost of rental and transportation of such equipment to which no percent shall be added. The basis upon which rental cost are to be charged shall be agreed upon in writing before the Work is started. Actual rental and transportation costs shall be obtained from receipted invoices and freight bills.
- 14.10 No compensation for expenses, fees or costs incurred in executing Extra Work, other than herein specifically mentioned herein above, will be allowed.
- 14.11 A record of Extra Work on Force Account basis shall be submitted to the Owner on the day following the execution of the Work, and no less than three copies of such record shall be made on suitable forms and signed by both the Owner or his representative on the Project and the Contractor. All bids for materials used on extra Work shall be submitted to the Owner by the Contractor upon certified statements to which will be attached original bills covering the costs of such materials.
- 14.12 Payment for Extra Work of any kind will not be allowed unless the same has been ordered in writing by the Owner.

15.00 STATUS OF THE ENGINEER (NOT APPLICABLE)

16.00 INJURIES TO PERSONS AND PROPERTY

- 16.01 The Contractor shall be held solely and exclusively responsible for all injuries to persons and for all damages to the property of the Owner or others caused by or resulting from the negligence of itself, its employees or its agents, during the progress of or in connection with the Work, whether within the limits of the Work or elsewhere under the Contract proper or as Extra Work. This requirement will apply continuously and not be limited to normal working hours or days. The Owner's construction review is for the purpose of checking the Work product produced and does not include review of the methods employed by the Contractor or to the Contractor's compliance with safety measures of any nature whatsoever. The Contractor agrees to pay a reasonable attorney fee and other reasonable attendant costs of the Owner in the event it becomes necessary for the Owner to employ an attorney to enforce this section or to protect itself against suit over the Contractor's responsibilities. Attorney fees shall be at the prevailing hourly rate of the private sector. The attorney fee hourly rate shall not be less than \$175.00 per hour. All attorney fees collected shall be paid to the operating budget of the Office of the Parish President.
- 16.02 The Contractor must protect and support all utility infrastructures or other properties which are liable to be damaged during the execution of its Work. It shall take all reasonable and proper precautions to protect persons, animals and vehicles or the public from the injury, and wherever necessary, shall erect and maintain a fence or railing around any excavation, and place a sufficient number of lights about the Work and keep same burning from twilight until sunrise, and shall employ one or more watchmen as an additional security whenever needed. The Contractor understands and agrees that the Owner may request that security be placed on the premises to ensure and secure same. The Owner shall have exclusive authority to request placement of such security. Contractor agrees to retain and place security as requested, all at the sole expense of Contractor. Additional security shall not be considered a change order or reason for additional payment by the Owner. The Contractor must, as far as practicable and consistent with good construction, permit access to private and public property and leave fire hydrants, catch basins, streets, etc., free from encumbrances. The Contractor must restore at its own expense all injured or damaged property caused by any negligent act of omission or commission on its part or on the part of its employees or subcontractors, including, but not limited to, sidewalks, curbing, sodding, pipes conduits, sewers, buildings, fences, bridges, retaining walls, tanks, power lines, levees or any other building or property whatsoever to a like condition as existed prior to such damage or injury.
- 16.03 In case of failure on the part of the Contractor to restore such property or make good such damage, the Owner may upon forty-eight (48) hours' notice proceed to repair or otherwise restore such property as may be deemed necessary, and the cost thereof will be deducted from any monies due or which may become due under its Contract.
- 16.04 Contractor agrees to protect, defend, indemnify, save, and hold harmless St. Tammany Parish Government, its elected and appointed officials, departments, agencies, boards and commissions, their officers, agents servants, employees, including volunteers, from and against any and all claims, demands, expense and liability arising out of injury or death to

any person or the damage, loss or destruction of any property to the extent caused by any negligent act or omission or willful misconduct of Contractor, its agents, servants, employees, and subcontractors, or any and all costs, expense and/or attorney fees incurred by St. Tammany Parish Government as a result of any claim, demands, and/or causes of action that results from the negligent performance or non-performance by Contractor, its agents, servants, employees, and subcontractors of this contract. Contractor agrees to investigate, handle, respond to, provide defense for and defend any such claims, demand, or suit at its sole expense and agrees to bear all other costs and expenses related thereto caused by any negligent act or omission or willful misconduct of Contractor, its agents, servants, employees, and subcontractors.

- 16.05 As to any and all claims against Owner, its agents, assigns, representatives or employees by any employee of Contractor, any Subcontractor, anyone directly or indirectly employed by any of them or anyone for whose acts as may be liable, the indemnification obligation under Paragraph 16.04 shall not be limited in any way or by any limitation on the amount or type of damages, compensation or benefits payable by or for Contractor or any Subcontractor under workmen's compensation acts, disability benefit acts or other employee benefit acts.
- 16.06 No road shall be closed by the Contractor to the public except by written permission of the Owner. If so closed, the Contractor shall maintain traffic over, through and around the Work included in his Contract, with the maximum practical convenience, for the full twenty-four hours of each day of the Contract, whether or not Work has ceased temporarily. The Contractor shall notify the Owner at the earliest possible date after the Contract has been executed and, in any case, before commencement of any construction that might in any way inconvenience or endanger traffic, in order that necessary and suitable arrangements may be determined. Any and all security, maintenance, labor or costs associated with traffic control herein shall be at the sole expense of Contractor. This expense shall be paid directly by the Contractor. This expense shall not be considered as a change order nor shall it allow the Contractor any additional cost reimbursement whatsoever. All traffic deviations herein shall be coordinated with the appropriate law enforcement officials of this Parish.
- 16.07 The convenience of the general public and residents along the Works shall be provided for in a reasonable, adequate and satisfactory manner. Where existing roads are not available as detours, and unless otherwise provided, all traffic shall be permitted to pass through the Work. In all such cases, the public shall have precedence over Contractor's vehicles insofar as the traveling public's vehicles shall not be unduly delayed for the convenience of the Contractor. In order that all unnecessary delay to the traveling public may be avoided, the Contractor shall provide and station competent flagmen whose sole duties shall consist of directing and controlling the movement of public traffic either through or around the Work. Any and all security, maintenance, labor or costs associated with traffic control herein shall be at the sole expense of Contractor. This expense shall be paid directly by the Contractor. This expense shall not be considered as a change order nor shall it allow the Contractor any additional cost reimbursement whatsoever. All traffic deviations herein shall be coordinated with the appropriate law enforcement officials of this Parish.
- 16.08 The Contractor shall arrange its Work so that no undue or prolonged blocking of business establishments will occur.

- 16.09 Material and equipment stored on the right of way or work site shall be so placed and the Work at times shall be so conducted as to ensure minimum danger and obstruction to the traveling public.
- 16.10 During grading operations when traffic is being permitted to pass through construction, the Contractor shall provide a smooth, even surface that will provide a satisfactory passageway for use of traffic. The road bed shall be sprinkled with water if necessary to prevent a dust nuisance, provided the dust nuisance is a result of the Work.
- 16.11 Fire hydrants shall be accessible at all times to the Fire Department. No material or other obstructions shall be placed closer to a fire hydrant than permitted by ordinances, rules or regulations or within fifteen (15) feet of a fire hydrant, in the absence of such ordinance, rules or regulations.
- 16.12 The Contractor shall not, without the written permission of the Owner, do Work for a resident or property owner abutting the Work at the time that this Work is in progress.
- 16.13 No Work of any character shall be commenced on railroad right-of-way until the Railroad Company has issued a permit to the Owner and has been duly notified by the Contractor in writing (with a copy forwarded to the Owner) of the date it proposes to begin Work, and until an authorized representative of the Railroad Company is present, unless the Railroad Company waives such requirements. All Work performed by the Contractor within the right-of-way limits of the railroad shall be subject to the inspection and approval of the chief engineer of the Railroad Company or its authorized representative. Any precautions considered necessary by said chief engineer to safeguard the property, equipment, employees and passengers of the Railroad Company shall be taken by the Contractor without extra compensation. The Contractor shall, without extra compensation, take such precautions and erect and maintain such tell-tale or warning devices as the Railroad Company considers necessary to safeguard the operation of its trains. The temporary vertical and horizontal clearance specified by the chief engineer of the Railroad Company in approving these shall be maintained at all times. No steel, brick, pipe or any loose material shall be left on the ground in the immediate vicinity of the railway track. Before any Work is done within Railroad right of way, the Contractor shall provide and pay all costs of any special insurance requirements of the Railroad.
- 16.14 The Contractor, shall, without extra compensation, provide, erect, paint and maintain all necessary barricades. Also, without extra compensation, the Contractor shall provide suitable and sufficient lights, torches, reflectors or other warning or danger signals and signs, provide a sufficient number of watchmen and flagmen and take all the necessary precautions for the protection of the Work and safety of the Public.
- 16.15 The Contractor shall erect warning signs beyond the limits of the Project, in advance of any place on the Project where operations interfere with the use of the road by traffic, including all intermediate points where the new Work crosses or coincides with the existing road. All barricades and obstructions shall be kept well painted and suitable warning signs shall be placed thereon. All barricades and obstructions shall be illuminated at night and all lights or devices for this purpose shall be kept burning from sunset to sunrise.

- 16.16 Whenever traffic is maintained through or over any part of the Project, the Contractor shall clearly mark all traffic hazards. No direct payment will be made for barricades, signs and illumination therefore or for watchmen or flagmen.
- 16.17 The Contractor will be solely and completely responsible for conditions on the job site, including safety of all persons and property during performance of the Work. This requirement will apply continuously and not be limited to normal working hours. The duty of the Owner to conduct construction review of the Contractor's performance is not intended to include review of the adequacy of the Contractor's safety measures, in, or near the construction site.

#### 17.00 SANITARY PROVISIONS

- 17.01 The Contractor shall provide and maintain in a neat, sanitary condition such accommodations for the use of its employees as may be necessary to comply with the rules and regulations of the State Health Agency or of the other authorities having jurisdiction and shall permit no public nuisance.

#### 18.00 RIGHTS OF WAY

- 18.01 The Owner will furnish the Contractor with all necessary rights-of-way for the prosecution of the Work. The rights of way herein referred to shall be taken to mean only permission to use or pass through the locations or space in any street, highway, public or private property in which the Contractor is to prosecute the Work.
- 18.02 It is possible that all lands and rights of way may not be obtained as herein contemplated before construction begins, in which event the Contractor shall begin its Work upon such land and rights of way as the Owner may have previously acquired. Any delay in furnishing these lands by the Owner can be deemed proper cause for adjustment in the Contract amount and/or in the time of completion.

#### 19.00 PROTECTION AND RESTORATION OF PROPERTY AND LANDSCAPE

- 19.01 The Contractor shall not enter upon private property for any purpose without first obtaining permission from the Owner, as well as the private property owner and/or and private property Lessees. The Contractor shall use every precaution necessary for the preservation of all public and private property, monuments, highway signs, telephone lines, other utilities, etc., along and adjacent to the Work; the Contractor shall use every precaution necessary to prevent damage to pipes, conduits, and other underground structures; and shall protect carefully from disturbance or damage all land monuments and property marks until an authorized agent has witnessed or otherwise referenced their location and shall not remove them until directed. The street and highway signs and markers that are to be affected by the Work shall be carefully removed when the Work begins and stored in a manner to keep them clean and dry. The Contractor must obtain all necessary information in regard to existing utilities and shall give notice in writing to the owners or the proper authorities in charge of streets, gas, water, pipes, electric, sewers and other underground

structures, including conduits, railways, poles and pole lines, manholes, catch basins, fixtures, appurtenances, and all other property that may be affected by the Contractor's operations, at least forty-eight (48) hours before its operations will affect such property. The Contractor shall not hinder or interfere with any person in the protection of such Work or with the operation of utilities at any time. When property, the operation of railways, or other public utilities are endangered, the Contractor shall at its own expense, maintain flagmen or watchmen and any other necessary precautions to avoid interruption of service or damage to life or property, and it shall promptly repair, restore, or make good any injury or damage caused by its negligent operations in an acceptable manner. The Contractor must also obtain all necessary information in regard to the installation of new cables, conduits, and transformers, and make proper provisions and give proper notifications, in order that same can be installed at the proper time without delay to the Contractor or unnecessary inconvenience to the Owner.

- 19.02 The Contractor shall not remove, cut or destroy trees, shrubs, plants, or grass that are to remain in the streets or those which are privately owned, without the proper authority. Unless otherwise provided in the Special Provisions or the Proposal, the Contractor shall replace and replant all plants, shrubs, grass and restore the grounds back to its original good condition to the satisfaction of the Owner and/or the property owner. The Contractor shall assume the responsibility of replanting and guarantees that plants, shrubs, grass will be watered, fertilized and cultivated until they are in a growing condition. No direct payment will be made for removing and replanting of trees, shrubs, plants or grass unless such items are set forth in the Proposal.
- 19.03 When or where direct damage or injury is done to public or private property by or on account of any negligent act, omission, neglect or otherwise of the Contractor, it shall make good such damage or injury in an acceptable manner.

## 20.00 CONTRACTORS RESPONSIBILITY FOR WORK

- 20.01 Until final acceptance of the Work by the Owner as evidence by approval of the final estimate, the Work shall be in the custody and under the charge and care of the Contractor and it shall take every necessary precaution against injury or damage to any part thereof by the action of the elements or from the non-execution of the Work; unless otherwise provided for elsewhere in the Specifications or Contract. The Contractor shall rebuild, repair, restore and make good, without extra compensation, all injuries or damages to any portion of the Work occasioned by any of the above causes before its completion and acceptance, and shall bear the expenses thereof. In case of suspension of the Work from any cause whatever, the Contractor shall be responsible for all materials and shall properly and securely store same, and if necessary, shall provide suitable shelter from damage and shall erect temporary structures where necessary. If in the exclusive discretion of the Owner, any Work or materials shall have been damaged or injured by reason of failure on the part of the Contractor or any of its Subcontractors to so protect the Work, such materials shall be removed and replaced at the sole expense of the Contractor. Such amount shall be deducted from any sum due or to be due Contractor.
- 20.02 The Contractor shall give all notice and comply with all Federal, State, and local laws, ordinances, and regulations in any manner affecting the conduct of the Work, and all such

orders and decrees as exist, or may be enacted by bodies or tribunals having any jurisdiction or authority over the Work, and shall indemnify and hold harmless the Owner against any claim or liability arising from, or based on, the violation of any such law, ordinance, regulation, order or decree, whether by itself, its employees or Subcontractors.

## 21.00 TESTS AND INSPECTIONS CORRECTION & REMOVAL OF DEFECTIVE WORK

- 21.01 Contractor warrants and guarantees to Owner that all materials and equipment will be new unless otherwise specified and that all Work will be of good quality and free from faults or defects and in accordance with the requirements of the Contract Documents. All unsatisfactory Work, all faulty or Defective Work and all Work not conforming to the requirements of the Contract Documents at the time of acceptance shall be considered Defective. Prompt and reasonable notice of all defects shall be given to the Contractor.
- 21.02 If the Contract Documents, laws, ordinances, rules, regulations or orders of any public authority having jurisdiction require any Work to specifically be inspected, tested or approved by some public body, Contractor shall assume full responsibility therefor, pay all costs in connection therewith and furnish Owner the required certificates of inspection, testing or approval. All other inspections, tests and approval required by the Contract Documents shall be performed by organizations acceptable to Owner and Contractor and the costs thereof shall be borne by the Contractor unless otherwise specified.
- 21.03 Contractor shall give Owner timely notice of readiness of the Work for all inspections, tests or approvals. If any such Work required to be inspected, tested or approved is covered without written approval of Owner, it must, if requested by Owner, be uncovered for observation, and such uncovering shall be at Contractor's expense unless Contractor has given Owner timely notice of its intention to cover such Work and Owner has not acted with reasonable promptness in response to such notice.
- 21.04 Neither observations by Owner nor inspections, tests or approvals shall relieve Contractor from its obligations to perform the Work in accordance with the requirements of the Contract Document.
- 21.05 Owner and its representatives will at reasonable times have access to the Work. Contractor shall provide proper and safe facilities for such access and observation of the Work and also for any inspection or testing thereof by others.
- 21.06 If any Work is covered contrary to the written request of Owner, it must, be uncovered for Owner's observation and replaced at Contractor's expense. If any Work has been covered which Owner has not specifically requested to observe prior to its being covered, or if Owner considers it necessary or advisable that covered Work be inspected or tested by others, the Contractor, at Owner's request, shall uncover, expose or otherwise make available for observations, inspections or testing as Owner may require, that portion of the Work in question, furnishing all necessary labor, material and equipment. If it is found that such Work is Defective, Contractor shall bear all the expenses of such uncovering, exposure, observation, inspection and testing and of satisfactory reconstruction, including compensation for additional professional services, and an appropriate deductive Change Order shall be issued. If, however, such Work is not found to be Defective, Contractor shall



be allowed an increase in the Contract Price or an extension of the Contract Time, or both, directly attributable to such uncovering, exposure, observation, inspection, testing and reconstruction.

- 21.07 If the Work is Defective, or Contractor fails to supply sufficient skilled workmen or suitable materials or equipment, or if the Contractor fails to make prompt payments to Subcontractors or for labor, materials or equipment, Owner may order Contractor to stop the Work, or any portion thereof, until the cause of such order has been eliminated; however, this right of Owner to stop the Work shall not give rise to any duty on the part of Owner to exercise this right for the benefit of Contractor or any other party.
- 21.08 Prior to approval of final payment, Contractor shall promptly, without cost to Owner and as specified by Owner, either correct any Defective Work, whether or not fabricated, installed or completed, or if the Work has been rejected by Owner, remove it from the site and replace it with non-defective Work. If Contractor does not correct such Defective Work or remove and replace such rejected Work within a reasonable time, all as specified in a written notice from Owner, Owner may have the deficiency corrected or the rejected Work removed and replaced. All direct or indirect costs of such correction or removal and replacement including compensation for additional professional services shall be paid by Contractor, and an appropriate deductive Change Order shall be issued. Contractor shall also bear the expense of making good all Work of others destroyed or damaged by its correction, removal or replacement of its Defective Work.
- 21.09 If, after the approval of final payment and prior to the expiration of one year after the date of Substantial Completion or such longer period of time as may be prescribed by law or by the terms of any applicable special guarantee required by the Contract Documents, any Work is found to be Defective, Contractor shall promptly, without cost to Owner and in accordance with Owner's written instructions, either correct such Defective Work or if it has been rejected by Owner, remove it from the site and replace it with non-defective Work. If Contractor does not promptly comply with the terms of such instructions, Owner may have the Defective Work corrected or the rejected Work removed and replaced, and all direct and indirect costs of such removal and replacement, including compensation for additional professional services, shall be paid by Contractor. The Contractor agrees to pay a reasonable attorney fee and other reasonable attendant costs of the Owner in the event it becomes necessary for the Owner to employ an attorney to enforce this section or to protect itself against suit over the Contractor's responsibilities. Attorney fees shall be at the prevailing hourly rate of the private sector. The attorney fee hourly rate shall not be less than \$175.00 per hour. All attorney fees collected shall be paid to the operating budget of the Office of the Parish President.
- 21.10 If, instead of requiring correction or removal and replacement of Defective Work, Owner (and prior to approval of final payment) prefers to accept it, the Owner may do so. In such case, if acceptance occurs prior to approval of final payment, a Change Order shall be issued incorporating the necessary revisions in the Contract Documents, including appropriate reduction in the Contract Price, or, if the acceptance occurs after approval of final payment, an appropriate amount shall be paid by Contractor to Owner.
- 21.11 If Contractor should fail to progress the Work in accordance with the Contract Documents, including any requirements of the Progress Schedule, Owner, after seven (7) days written

Notice to Contractor, may, without prejudice to any other remedy Owner may have, make good such deficiencies and the cost thereof including compensation for additional professional services shall be charged against Contractor. In such cases, a Change Order shall be issued incorporating the necessary revisions in the Contract Documents including an appropriate reduction in the Contract Price. If the payments then or thereafter due Contractor are not sufficient to cover such amount, Contractor shall pay the difference to Owner.

- 21.12 The Owner may appoint representatives to make periodic visits to the site and observe the progress and quality of the executed Work. These representatives shall be governed by the same restrictions placed on the Owner by these Specifications. The governing body of the Federal, State or local government exercising authority in the area of the Work may appoint representatives to observe the progress and quality of the Work. Contractor shall cooperate with and assist these representatives in the performance of their duties.
- 21.13 The Contractor shall be responsible for the faithful execution of its Contract and the presence or absence of the Owner's or Government's Representative is in no way or manner to be presumed or assumed to relieve in any degree the responsibility or obligation of the Contractor.
- 21.14 The Contractor shall notify the Owner and the Governmental Agency having jurisdiction as to the exact time at which it is proposed to begin Work so the Owner may provide for inspection of all materials, foundations, excavations, equipment, etc., and all or any part of the Work and to the preparation or manufacture of materials to be used whether within the limits of the Work or at any other place.
- 21.15 The Owner or its representatives shall have free access to all parts of the Work and to all places where any part of the materials to be used are procured, manufactured or prepared. The Contractor shall furnish the Owner all information relating to the Work and the material therefor, which may be deemed necessary or pertinent, and with such samples of materials as may be required. The Contractor, at its own expense, shall supply such labor and assistance as may be necessary in the handling of materials for proper inspection or for inspection of any Work done by it.
- 21.16 No verbal instructions given to the Contractor by the Owner, Project Representative or any of their agents shall change or modify the written Contract. Contractors shall make no claims for additional payments or time based upon verbal instructions.

## 22.00 SUBSURFACE CONDITIONS

- 22.01 It is understood and agreed that the Contractor is familiar with the subsurface conditions that will be encountered and its price bid for the Work includes all of the costs involved for Work in these conditions and it is furthermore agreed that it has taken into consideration, prior to its Bid and acceptance by Owner, all of the subsurface conditions normal or unusual that might be encountered in the location of the Work.
- 22.02 Should the Contractor encounter during the progress of the Work subsurface conditions at the site materially differing from those shown on the Drawings or indicated in the

Specifications, the attention of the Owner shall be directed to such conditions before the conditions are disturbed. If the Owner finds that the conditions materially differ from those shown on the Drawings or indicated in the Specifications, it shall at once make such changes in the Drawings or Specifications as it may find necessary, and any increase or decrease in cost or extension of time resulting from such changes shall be adjusted in the same manner as provided for changes for Extra Work. The Contractor shall submit breakdowns of all costs in a manner as instructed and approved by the Owner.

#### 23.00 REMOVAL AND DISPOSAL OF STRUCTURES AND OBSTRUCTIONS

23.01 Bidder shall thoroughly examine the site of the Work and shall include in its Bid the cost of removing all structures and obstructions in the way of the Work.

23.02 The Contractor shall remove any existing structures or part of structures, fence, building or other encumbrances or obstructions that interfere in any way with the Work. Compensations for the removal of any structure shall be made only if the item(s) to be removed was/were listed as pay item(s) on the Proposal.

23.03 If called for in the Special Conditions, all privately and publicly owned materials and structures removed shall be salvaged without damage and shall be piled neatly and in an acceptable manner upon the premises if it belongs to an abutting property owner, otherwise at accessible points along the improvements. Materials in structures which is the property of the Owner or property of any public body, private body or individual which is fit for use elsewhere, shall remain property of the original Owner. It shall be carefully removed without damage, in sections which may be readily transported; same shall be stored on or beyond the right of way. The Contractor will be held responsible for the care and preservation for a period of ten (10) days following the day the last or final portion of the materials stored at a particular location are placed thereon. When privately owned materials are stored beyond the right of way, the Contractor will be held responsible for such care and preservation for a period of ten (10) days responsibility period for care and preservation of the materials begins. The Contractor must furnish the Owner with evidence satisfactory that the proper owner of the materials has been duly notified by the Contractor that the said owner must assume responsibility for its materials on the date following the Contractor's ten (10) day responsibility.

#### 24.00 INSURANCE

24.01 Contractor shall secure and maintain at its expense such insurance that will protect it and the Parish from claims for injuries to persons or damages to property which may arise from or in connection with the performance of Services or Work hereunder by the Contractor, his agents, representatives, employees, and/or subcontractors. The cost of such insurance shall be included in Contractor's bid.

24.02 The Contractor shall not commence work until it has obtained all insurance as required for the Parish Project. If the Contractor fails to furnish the Parish with the insurance protection required and begins work without first furnishing Parish with a currently dated certificate of insurance, the Parish has the right to obtain the insurance protection required and deduct

the cost of insurance from the first payment due the Contractor. Further deductions are permitted from future payments as are needed to protect the interests of the Parish including, but not limited to, renewals of all policies.

- 24.03 Payment of Premiums: The insurance companies issuing the policy or policies shall have no recourse against the Parish of St. Tammany for payment of any premiums or for assessments under any form of policy.
- 24.04 Deductibles: Any and all deductibles in the described insurance policies shall be assumed by and be at the sole risk of the Contractor.
- 24.05 Authorization of Insurance Company(ies) and Rating: All insurance companies must be authorized to do business in the State of Louisiana and shall have an A.M. Best rating of no less than A-, Category VII.
- 24.06 Policy coverages and limits must be evidenced by Certificates of Insurance issued by Contractor's carrier to the Parish and shall reflect:

Date of Issue: Certificate must have current date.

Named Insured: The legal name of Contractor under contract with the Parish and its principal place of business shall be shown as the named insured on all Certificates of Liability Insurance.

Name of Certificate Holder: St. Tammany Parish Government, Office of Risk Management, P. O. Box 628, Covington, LA 70434

Project Description: A brief project description, including Project Name, Project Number and/or Contract Number, and Location.

Endorsements and Certificate Reference: All policies must be endorsed to provide, and certificates of insurance must evidence the following:

Waiver of Subrogation: The Contractor's insurers will have no right of recovery or subrogation against the Parish of St. Tammany, it being the intention of the parties that all insurance policy(ies) so affected shall protect both parties and be the primary coverage for any and all losses covered by the below described insurance. *Policy endorsements required for all coverages.*

Additional Insured: The Parish of St. Tammany shall be named as additional named insured with respect to general liability, marine liability, pollution/environmental liability, automobile liability and excess liability coverages. *Policy endorsements required.*

Hold Harmless: Contractor's liability insurers shall evidence their cognizance of the Hold Harmless and Indemnification in favor of St. Tammany Parish Government by referencing same on the face of the Certificate(s) of Insurance.

Cancellation Notice: Producer shall provide thirty (30) days prior written notice to the Parish of policy cancellation or substantive policy change.

24.07 The types of insurance coverage the Contractor is required to obtain and maintain throughout the duration of the Contract, include, but is not limited to:

1. Commercial General Liability insurance with a Combined Single Limit for bodily injury and property damage of at least \$1,000,000 per Occurrence/\$3,000,000 General Aggregate/Products-Completed Operations Per Project. The insurance shall provide for and the certificate(s) of insurance shall indicate the following coverages:
  - a) Premises - operations;
  - b) Broad form contractual liability;
  - c) Products and completed operations;
  - d) Personal Injury;
  - e) Broad form property damage;
  - f) Explosion and collapse.
2. Marine Liability/Protection and Indemnity insurance is required for any and all vessel and/or marine operations in the minimum limits of \$1,000,000 per occurrence/\$2,000,000 per project general aggregate. The coverage shall include, but is not limited to, the basic coverages found in the Commercial General Liability insurance and coverage for third party liability.
3. Contractors' Pollution Liability and Environmental Liability insurance in the minimum amount of \$1,000,000 per occurrence, \$2,000,000 general aggregate and include coverage for full contractual liability and for all such environmental and/or hazardous waste exposures affected by this project.
4. Business Automobile Liability insurance with a Combined Single Limit of \$1,000,000 per Occurrence for bodily injury and property damage, and shall include coverage for the following:
  - a) Any automobiles;
  - b) Owned automobiles;
  - c) Hired automobiles;
  - d) Non-owned automobiles;
  - e) Uninsured motorist.
5. Workers' Compensation/Employers Liability insurance: worker's compensation insurance coverage and limits as statutorily required; Employers' Liability Coverage shall be not less than \$1,000,000 each accident, \$1,000,000 each disease, \$1,000,000 disease policy aggregate, except when projects include exposures covered under the United States Longshoremen and Harbor Workers Act, Maritime and/or Jones Act and/or Maritime Employers Liability (MEL) limits shall be not less than \$1,000,000/\$1,000,000/\$1,000,000. *Coverage for owners, officers and/or*

*partners shall be included in the policy and a statement of such shall be made by the insuring producer on the face of the certificate.*

6. Owners Protective Liability (OPL) (formerly Owners and Contractors Protective Liability (OCP) Insurance) shall be furnished by the Contractor naming St. Tammany Parish Government as the Named Insured and shall provide coverage in the minimum amount of \$1,000,000 combined single limit (CSL) each occurrence, \$2,000,000 aggregate. Any project valued in excess of \$3,000,000 shall be set by the Office of Risk Management. The policy and all endorsements shall be addressed to St. Tammany Parish Government, Office of Risk Management, P. O. Box 628, Covington, LA 70434.
  7. Builder's Risk Insurance shall be required on buildings, sewage treatment plants and drainage pumping stations, and shall be written on an "all-risk" or equivalent policy form in the amount of the full value of the initial Contract sum, plus value of subsequent Contract modifications and cost of materials supplied or installed by others, comprising 100% total value for the entire project including foundations. Deductibles should not exceed \$5,000 and Contractor shall be responsible for any and all policy deductibles. This insurance shall cover portions of the work stored off the site, and also portions of the work in transit. In addition, Installation Floater Insurance, on an "all-risk" form, will be carried on all pumps, motors, machinery and equipment on the site or installed. Both the Builder's Risk Insurance and the Installation Floater Insurance shall include the interests of the Owner, Contractor, Subcontractors, and Sub-subcontractors and shall terminate only when the Project has been accepted. St. Tammany Parish Government, P. O. Box 628, Covington, LA 70434 shall be the first named insured on the Builder's Risk and Installation Floater Insurance.
  8. Professional Liability (errors and omissions) insurance in the sum of at least One Million Dollars (\$1,000,000) per claim with Two Million Dollars (\$2,000,000) annual aggregate.
  9. An umbrella policy or excess policy may be required and/or allowed to meet minimum coverage limits, subject to the review and approval by St. Tammany Parish Government, Office of Risk Management.
- 24.08 All policies of insurance shall meet the requirements of the Parish of St. Tammany prior to the commencing of any work. The Parish of St. Tammany has the right, but not the duty, to approve all insurance policies prior to commencing of any work. If at any time, it becomes known that any of the said policies shall be or becomes unsatisfactory to the Parish of St. Tammany as to form or substance; or if a company issuing any such policy shall be or become unsatisfactory to the Parish of St. Tammany, the Contractor shall promptly obtain a new policy, timely submit same to the Parish of St. Tammany for approval and submit a certificate thereof as provided above. The Parish agrees to not unreasonably withhold approval of any insurance carrier selected by Contractor. In the event that Parish cannot agree or otherwise authorize said carrier, Contractor shall have the option of selecting and submitting new insurance carrier within 30 days of said notice by the Parish. In the event that the second submission is insufficient or is not approved, then the Parish shall have the unilateral opportunity to thereafter select a responsive and

responsible insurance carrier all at the cost of Contractor and thereafter deduct from Contractor's fee the cost of such insurance.

- 24.09 Upon failure of Contractor to furnish, deliver and/or maintain such insurance as above provided, the contract, at the election of the Parish of St. Tammany, may be forthwith declared suspended, discontinued or terminated. Failure of the Contractor to maintain insurance shall not relieve the Contractor from any liability under the contract, nor shall the insurance requirements be construed to conflict with the obligation of the Contractor concerning indemnification.
- 24.10 Contractor shall maintain a current copy of all annual insurance policies and provide same to the Parish of St. Tammany as may be reasonably requested.
- 24.11 It shall be the responsibility of Contractor to require that these insurance requirements are met by all contractors and sub-contractors performing work for and on behalf of Contractor. Contractor shall further ensure the Parish is named as additional insured on all insurance policies provided by said contractor and/or sub-contractor throughout the duration of the project, and that renewal certificates for any policies expiring prior to the Parish's final acceptance of the project shall be furnished to St. Tammany Parish Government, Department of Legal, Office of Risk Management, without prompting.

**NOTICE:**

*These are only an indication of the coverages that are generally required. Additional coverages and/or limits may be required for projects identified as having additional risks or exposures. Please note that some requirements listed may not necessarily apply to your specific services. St. Tammany Parish Government reserves the right to remove, replace, make additions to and/or modify any and all of the insurance requirement language upon review of the final scope of services presented to Department of Legal, Office of Risk Management prior to execution of a contract for services.*

**For inquiries regarding insurance requirements, please contact:**

**St. Tammany Parish Government**

**Legal Department**

**Office of Risk Management**

**P. O. Box 628**

**Covington, LA 70434**

**Telephone: 985-898-2797**

**Fax: 985-898-3070**

**Email: [riskman@stpgov.org](mailto:riskman@stpgov.org)**

24.12 Nothing contained in these insurance requirements is to be construed as limiting the extent of the Contractor's Responsibility for payment of damages resulting from its operations under this Contract.

25.00 OWNER'S RIGHT TO OCCUPANCY

25.01 The Owner shall have the right to use, at any time, any and all portions of the Work that have reached such a stage of completion as to permit such occupancy, provided such occupancy does not hamper the Contractor or prevent its efficient completion of the Contract or be construed as constituting an acceptance of any part of the Work.

25.02 The Owner shall have the right to start the construction of houses, structures or any other building concurrent with the Contractor's Work.

26.00 SURVEY HORIZONTAL AND VERTICAL CONTROL

26.01 The Owner shall provide surveys for construction to establish reference points which in its judgment are necessary to enable Contractor to layout and proceed with its Work. Contractor shall be responsible for surveying and laying out the Work and shall protect and preserve the established reference points and shall make no changes or relocations without the prior written approval of the Owner. Contractor shall report to Owner whenever any reference point is lost or destroyed and the Owner shall decide if the reference point shall be replaced by its or the Contractor's forces.



- 26.02 The Contractor shall establish lines and grades with its own forces in sufficient number and location for the proper execution of the Work.
- 26.03 If the Contractor, during the construction, damages the established property corners and/or other markers and thereafter requests the Owner to re-stake same in order to complete the project, this expense will be borne solely by the Contractor.
- 27.00 TERMINATION OF THE CONTRACT, OWNER'S AND CONTRACTORS RIGHT TO STOP WORK.
- 27.01 If the Contractor should be adjudged bankrupt (voluntarily or involuntarily) or if it should make a general assignment for the benefit of its creditors, or if a receiver should be appointed on account of its insolvency, or if it should persistently or repeatedly refuse or should fail (except in cases for which extension of time is provided) to supply enough properly skilled workmen or proper materials, or if it should fail to make prompt payment to Subcontractors or for material or labor, or persistently disregard laws, ordinances or the instructions of the Owner, or otherwise be guilty of a substantial violation of any provision of the Contract, then the Owner, upon the certificate of the Owner that, in its unilateral discretion and judgment, believes sufficient cause exists to justify such action, may, without prejudice to any other right or remedy and after giving the Contractor ten (10) calendar days written notice, terminate the employment of the Contractor and take possession of the premises and of all materials, tools and appliances thereon and finish the Work by whatever method the Owner may deem expedient.
- 27.02 Failure of the Contractor to start the Work within the time limit specified herein or substantial evidence that the progress being made by the Contractor is sufficient to complete the Work within the specified time shall be grounds for termination of the Contract by the Owner.
- 27.03 Before the Contract is terminated, the Contractor and its surety will first be notified in writing by the Owner of the conditions which make termination of the Contract imminent. When after ten (10) calendar days' notice is given and if satisfactory effort has not been made by the Contractor or its surety to correct the conditions, the Owner may declare, in its exclusive discretion, that the Contract is terminated and so notify the Contractor and its surety accordingly.
- 27.04 Upon receipt of notice from the Owner that the Contract has been terminated, the Contractor shall immediately discontinue all operations. The Owner may then proceed with the Work in any lawful manner that it may elect until Work is finally completed.
- 27.05 The exclusive right is reserved to the Owner to take possession of any machinery, implements, tools or materials of any description that shall be found upon the Work, to account for said equipment and materials, and to use same to complete the Project. When the Work is finally completed, the total cost of same will be computed. If the total cost is less than the Contract Price, the difference will not be paid to the Contractor or its surety.
- 27.06 In case of termination, all expenses incident to ascertaining and collecting losses under the Bond, including legal services, shall be assessed against the Bond.

27.07 If the Work should be stopped under any order of any court or public authority for period of sixty (60) calendar days, through no act or fault of the Contractor or anyone employed by it, or if the Owner shall fail to pay the Contractor within a reasonable time any sum certified by the Owner, then the Contractor may, upon ten (10) calendar days written notice to the Owner, stop Work or terminate this Contract and recover from the Owner payment for all Work properly and professionally executed in a workmanlike manner. This loss specifically includes actual cost of materials and equipment, together with all wages inclusive of all federal, state, and local tax obligations. This loss specifically includes reimbursement of all insurances on a pro-rata basis from the date of termination to date of policy period. This loss excludes and specifically does not include recovery by the Contractor for lost profit, indirect & direct expenses, overhead, and the like.

## 28.00 PAYMENTS TO THE CONTRACTOR

28.01 Monthly certificates for partial payment, in a form approved by the Owner, shall be transmitted to the Owner upon receipt from the Contractor and acceptance by the Owner. In accordance with LSA-R.S. 38:2248(A), when the Contract Price is less than five hundred thousand dollars, these certificates shall be equal to ninety percent (90%) of both the Work performed and materials stored at the site; and when the Contract Price is five hundred thousand dollars or more, these certificates shall be equal to ninety-five percent (95%) of both the Work performed and materials stored at the site. Partial payment certificates shall include only Work, materials and equipment that are included in official Work Order and which meet the requirements of plans, Specifications and Contract Documents. These monthly estimates shall show the amount of the original estimate for each item, the amount due on each item, the gross total, the retained percentage, the amount previously paid and the net amount of payment due.

28.02 After final completion and acceptance by the Owner of the entire Work, and when the Contract Price is less than five hundred thousand dollars, the Owner shall issue to the Contractor Certificate of Payment in sum sufficient to increase total payments to ninety percent (90%) of the Contract Price. After final completion and acceptance by the Owner of the entire Work, and when the Contract Price is five hundred thousand dollars or more, the Owner shall issue to the Contractor Certificate of Payment in sum sufficient to increase total payments to ninety-five percent (95%) of the Contract Price.

28.03 When the Contract Price is less than five hundred thousand dollars, the final payment certificate of the remaining ten percent (10%) of the Contract Price, minus any deduction for deficient or Defective Work or other applicable deductions, will be issued by the Owner forty-five (45) days after filing acceptance in the Mortgage Office of the Parish and a Clear Liens and Privilege Certificate has been secured. When the Contract Price is five hundred thousand dollars or more, the final payment certificate of the remaining five percent (5%) of the Contract Price, minus any deduction for deficient or Defective Work or other applicable deductions, will be issued by the Owner forty-five (45) days after filing acceptance in the Mortgage Office of the Parish and a Clear Liens and Privilege Certificate has been secured. Before issuance of the final payment certificate, the Contractor shall deposit with the Owner a certificate from the Clerk of Court and Ex-Officio Recorder of

Mortgages from the Parish in which the Work is performed to the effect that no liens have been registered against Contract Work.

- 28.04 When, in the opinion of the Contractor, the Work provided for and contemplated by the Contract Documents has been substantially completed, the Contractor shall notify the Owner in writing that the Work is substantially complete and request a final inspection. The Owner shall proceed to perform such final inspection accompanied by the Contractor. Any and all Work found by this inspection to be Defective or otherwise not in accordance with the plans and Specifications shall be corrected to the entire satisfaction of the Owner and at the sole expense of the Contractor. If the Contract is found to be incomplete in any of its details, the Contractor shall at once remedy such defects, and payments shall be withheld and formal acceptance delayed until such Work has been satisfactorily completed.
- 28.05 If payment is requested on the basis of materials and equipment not incorporated in the Work, but delivered and suitably stored and protected from damage and theft at the site, the Request for Payment shall also be accompanied by such data, satisfactory to the Owner, as will establish Owner's title to the material and equipment and protect its interest therein, including applicable insurance.
- 28.06 Each subsequent Request for Payment shall include an affidavit of Contractor stating that all previous progress payments received on account of the Work have been applied to discharge in full all of Contractor's obligations reflected in prior Request for Payment.
- 28.07 Each subsequent request for payment shall include an affidavit by Contractor that Contractor, all subcontractors, agents, material suppliers and all other persons supplying material to the project upon which State of Louisiana and/or St. Tammany sales taxes are lawfully due have paid these taxes and that all supplies and materials purchased for this project and for which Contractor has been paid have had all lawfully due State and/or St. Tammany sales taxes paid.
- 28.08 The Bid Proposal, unless otherwise modified in writing, and the Contract constitute the complete Project. The Contract Prices constitute the total compensation payable to Contractor and the cost of all of the Work and materials, taxes, permits and incidentals must be included into the Bid submitted by the Contractor and included into those items listed on the Proposal.
- 28.09 Any additional supporting data required by the Owner in order to substantiate Contractor's request for payment shall be furnished by Contractor at no cost to the Owner.
- 28.10 Owner may withhold from payment to Contractor as may be necessary to protect itself from loss on account of:
- (1) Defective and/or inferior work;
  - (2) Damage to the property of Owner or others caused by Contractor;
  - (3) Failure by Contractor to make payments properly to sub-contractors or to pay for labor, materials or equipment used on this project;
  - (4) Failure by Contractor to pay taxes due on materials used on this project;
  - (5) Damage by Contractor to another Contractor;
  - (6) Insolvency;

- (7) Bankruptcy, voluntary or involuntary;
- (8) Revocation of corporate status;
- (9) Failure to follow corporate formalities;
- (10) Unprofessional activities;
- (11) Unworkmanlike performance;
- (12) Fraud and/or misrepresentation of any kind.

#### 29.00 ACCEPTANCE AND FINAL PAYMENT(S)

- 29.01 Upon receipt of written notice from Contractor that the work is substantially complete and usable by Owner or the Public in suitable manner, the Owner and the Contractor shall jointly inspect the work.
- 29.02 If the Owner by inspection determines that the work is not substantially complete in a suitable manner for use by the Owner or the Public, then the Owner shall so notify the Contractor in writing stating such reason. All reasons need not be disclosed unless actually known. The Owner is afforded an opportunity to amend said notices as are reasonably possible.
- 29.03 If the Owner by its inspection determines that the work is substantially complete, it shall prepare a list of all items not satisfactorily completed and shall notify the Contractor and Owner in writing that the work is substantially complete and subject to satisfactory resolution of those items on the list (punch list). Punch lists may be amended from time to time by Owner in the event that additional deficiencies are discovered. In accordance with LSA-R.S. 38:2248(B), any punch list generated during a construction project shall include the cost estimates for the particular items of work the design professional has developed based on the mobilization, labor, material, and equipment costs of correcting each punch list item. The design professional shall retain his working papers used to determine the punch list items cost estimates should the matter be disputed later. The contract agency shall not withhold from payment more than the value of the punch list. Punch list items completed shall be paid upon the expiration of the forty-five (45) day lien period. The provisions of this Section shall not be subject to waiver.
- 29.04 Upon determination of substantial completeness with the punch list, the Contract Time is interrupted and the Contractor is given a reasonable time not to exceed thirty (30) consecutive calendar days to effect final completion by correcting or completing all of those items listed on the punch list. If the items on the punch list are not completed in a satisfactory manner within the thirty day period, then the Contract Time will begin to run again and will include for purposes of determining liquidated damages the thirty day period the grace period being withdrawn.
- 29.05 Upon receipt by Owner of written determination that all work embraced by the contract has been completed in a satisfactory manner, the Owner shall provide a written acceptance to Contractor who shall record Owner's written acceptance with the recorder of Mortgages, St. Tammany Parish. The Contractor shall properly prepare, submit and pay for all costs associated with said Acceptance. The Contractor is also responsible for preparation, re-submission and payment of any and all updated certificates.
- 29.06 Retainage monies, minus those funds deducted in accordance to the requirements of this

agreement including but not limited to Paragraph 28.10, shall be due Contractor not earlier than forty-six (46) calendar days after recordation of certificate of Owner's acceptance provided the following:

- (1) Contractor shall prepare, secure, pay for and submit clear lien and privilege certificate, signed and sealed by Clerk of Court or Recorder of Mortgages, Parish of St. Tammany and dated at least forty-six (46) days after recordation of certificate of acceptance;
- (2) Ensure that the official representative of the Owner has accepted as per LSA-R.S. 38:2241.1, *et seq.* and that all following sub-sections have been properly satisfied as per law;
- (3) Ensure that all signatures are affixed and that there exists the requisite authority for all signatures;
- (4) Ensure accurate and proper legal descriptions;
- (5) Properly identify all parties and/or signatories;
- (6) Properly identify all mailing addresses;
- (7) Correctly set for the amount of the contract, together with all change orders;
- (8) Set out a brief description of the work performed;
- (9) Reference to any previously recorded contract, lien or judgment inscription that may affect the property;
- (10) Certification that substantial completion has occurred, together with any applicable date(s);
- (11) Certification that no party is in default and/or that the project has been abandoned.

29.07 After securing the clear lien and privilege certificate the Contractor shall prepare its final application for payment and submit to Owner. The Owner shall approve application for payment, or state its objections in writing and forward to Contractor for resolution.

### 30.00 NOTICE AND SERVICE THEREOF

30.01 Any Notice to Contractor from the Owner relative to any part of this Contract shall be in writing and shall be considered delivered and the service thereof completed when said notice is posted; by certified mail, return receipt requested to the said Contractor at its last given address, or delivered in person to said Contractor or its authorized representative on the Work.

### 31.00 INTENTION OF THESE GENERAL CONDITIONS

31.01 These General Conditions shall be applicable to all contracts entered into by and between the Owner and Contractors, except as may be altered or amended with the consent of the Owner, and/or provided for in the Special Conditions of each contract. Contractor shall be presumed to have full knowledge of these General Conditions which shall be applicable to all contracts containing these General Conditions, whether Contractor has obtained a copy thereof or not.

### 32.00 SEVERABILITY

32.01 If any one or more or part of any of the provisions contained herein and/or in the Specifications and Contract for the Work shall for any reason be held invalid, illegal or unenforceable in any respect, such invalidity, illegality or unenforceability shall not affect any other provisions of this Agreement or attachment, but it shall be construed as if such invalid, illegal, or unenforceable provision or part of a provision had never been contained herein.

32.02 CHANGING THESE CONDITIONS: Owner reserves the right to change or modify these General Conditions as it deems best, or as required by law. The General Conditions may also be modified for a particular project by the use of Special Conditions prior to the issuance of the Advertisement for Bid. However, once an advertisement for bid is made for any specific project, any changes to the General Conditions as they affect that specific project must be made in writing and issued via an addendum in accordance with State Law.

### 33.00 LAW OF THE STATE OF LOUISIANA

33.01 The Contract Documents shall be governed by the Law of the State of Louisiana.

33.02 The Contractor agrees to pay reasonable attorney's fees and other reasonable attendant costs, in the event that it becomes necessary for the Owner to employ an attorney in order to enforce compliance with or any remedy relating to any covenants, obligations, or conditions imposed upon the Contractor by this Agreement. Attorney fees shall be based upon the prevailing hourly rate of attorney rates in the private sector. In no case shall the hourly rate be less than \$175.00 per hour. All attorney fees collected shall be paid the operating budget of the Office of the Parish President.

33.03 The jurisdiction and venue provisions shall apply to all contractors, sureties, and subcontractors. The 22nd Judicial District for the Parish of St. Tammany shall be the court of exclusive jurisdiction and venue for any dispute arising from these General Conditions and/or any contract executed in conjunction with these General Conditions. All parties specifically waive any rights they have or may have for removal of any disputes to Federal Court, or transfers to different State District Court.

33.04 Contractor warrants that it has and/or had received a copy of these General Conditions at all times material hereto; Contractor further agrees that it has read and fully and completely understands each and every condition herein.

- 33.05 The property description will be more fully set out by an attached exhibit.
- 33.06 The Contractor warrants that it has the requisite authority to sign and enter this agreement.
- 33.07 It is specifically understood and agreed that in the event Contractor seeks contribution from the Parish or pursues its legal remedies for any alleged breach of this agreement by the Parish, then the following list of damages SHALL NOT BE RECOVERABLE BY CONTRACTOR. This list includes, but is not limited to:
1. indirect costs and/or expenses;
  2. direct costs and/or expenses;
  3. time-related costs and/or expenses;
  4. award of extra days;
  5. costs of salaries or other compensation of Contractor's personnel at Contractor's principal office and branch offices;
  6. expenses of Contractor's principal, branch and/or field offices;
  7. any part of Contractor's capital expenses, including any interest on Contractor's capital employed for the work;
  8. any other charges related to change orders;
  9. overhead and general expenses of any kind or the cost of any item not specifically and expressly included in Cost of Work.

33.08 DEFAULT AND WAIVERS

It is understood that time is of the essence. It is specifically understood between the parties that Contractor waives any and all notice to be placed in default by the Owner. This subsection shall supersede and prime any other subsection herein above that is in conflict. The Owner specifically reserves its right and specifically does not waive the requirement to be placed in default by the Contractor as per law.

- 33.09 St. Tammany Parish Government contracts to be awarded are dependent on the available funding and/or approval by members designated and/or acknowledged by St. Tammany Parish Government. At any time St. Tammany Parish Government reserves the right to cancel the award of a contract if either or both of these factors is deficient.
- 33.10 It is the Parish's policy to provide a method to protest exclusion from a competition or from the award of a contract, or to challenge an alleged solicitation irregularity. It is always better to seek a resolution within the Parish system before resorting to outside agencies and/or litigation to resolve differences. All protests must be made in writing, and shall be concise and logically presented to facilitate review by the Parish. The written protest shall include:
1. The protester's name, address, and fax and telephone numbers and the solicitation, bid, or contract number;
  2. A detailed statement of its legal and factual grounds, including a description of the resulting prejudice to the protester;

3. Copies of relevant documents;
4. All information establishing that the protester is an interested party and that the protest is timely; and
5. A request for a ruling by the agency; and a statement of the form of relief requested.

The protest shall be addressed To Director of Procurement, St. Tammany Parish Government, P.O. Box 628, Covington, LA 70434.

The protest review shall be conducted by the Parish Procurement Department.

Only protests from interested parties will be allowed. Protests based on alleged solicitation improprieties that are apparent before bid opening, or the time set for receipt of initial proposals must be filed with and received by the Procurement Department BEFORE those deadlines.

Any other protest shall be filed no later than ten (10) calendar days after the basis of the protest is known, or should have been known (whichever is earlier).

The Parish will use its best efforts to resolve the protest within thirty (30) days of the date that it is received by the Parish. The written response will be sent to the protestor via mail and, fax, if a fax number has been provided by the protestor. The protestor can request additional methods of notification.

Last day to submit questions and/or verification on comparable products will be no later than 2:00 pm CST, seven (7) working days prior to the opening date of the bid/proposal due date. Further any questions or inquires must be submitted via fax to 985-898-5227, or via email to [Purchasing@stpgov.org](mailto:Purchasing@stpgov.org). Any questions or inquires received after the required deadline to submit questions or inquires will not be answered.



## Section 09

### Special Provisions

#### **SP.01 SPECIAL ITEMS**

All work performed under this Contract shall conform with the Louisiana Standard Specifications for Roads and Bridges, 2016 Edition, and latest revisions, except as modified in these Specifications, Special Provisions, Drawings and the ST. TAMMANY PARISH GENERAL CONDITIONS, AND SUPPLEMENTARY CONDITIONS.

[http://wwwsp.dotd.la.gov/Inside\\_LaDOTD/Divisions/Engineering/Standard\\_Specifications/Pages/default.aspx](http://wwwsp.dotd.la.gov/Inside_LaDOTD/Divisions/Engineering/Standard_Specifications/Pages/default.aspx)

Below are items not specifically addressed in Louisiana Standard Specifications for Roads and Bridges, 2016 edition and latest revisions (web link provided above) which shall conform to these requirements set forth:

**ITEM S-001, 6" THICK STRUCTURAL FILL (SHARED USE PATH)**  
**ITEM S-002-A, 12" THICK STRUCTURAL FILL (CONNECTOR ROAD)**  
**ITEM S-002-B, 12" THICK STRUCTURAL FILL (CONNECTOR ROAD)**  
**ITEM S-003, 12" THICK STRUCTURAL FILL (ROUNDBOUT)**

This item consists of providing and installing structural fill material to be used as a sub-base under roadway pavements and base under the shared use path.

The structural fill material shall consist of sands (SP, SW), clayey sands (SC) or silty sands (SM) with at least 75% passing the No. 4 sieve and containing not more than 15% passing the No 200 sieve. Material shall be compacted to 95% of the maximum dry density as determined by ASTM D698 at moisture content between 1% below and 3% above the optimum moisture content.

Providing and installing structural fill material to the minimum thicknesses, and lines and grades established on plans in accordance with the typical sections shall be included in the contract unit bid price per cubic yard net section. Cost of geotextile fabric for connector road and roundabout shall be included in unit bid price of structural fill.

Payment will be made under:

**Item S-001, 6" THICK STRUCTURAL FILL (SHARED USE PATH), per Cubic  
Yard Net Section**

**Item S-002-A, 12" THICK STRUCTURAL FILL (CONNECTOR ROAD), per  
Cubic Yard Net Section**

**Item S-002-B, 12" THICK STRUCTURAL FILL (CONNECTOR ROAD), per  
Cubic Yard Net Section**

**Item S-003, 12" THICK STRUCTURAL FILL (ROUNDBOUT), per Cubic  
Yard Net Section**

## **ITEM S-004, OUTFALL DITCH EXCAVATION**

This item of work is for excavating and fine grading the complete servitude width of the outfall ditch located along the east side of Shady Lakes Subdivision near Station 178+04.79 from the connector road to Timber Branch. All other ditch work, including side road ditches, shall be included in the Excavation and Embankment Item lump sum bid price.

Measurement and payment for this item of work shall include all labor, materials, equipment, excavating and filling to meet the lines and grades shown on the plans, removal and legal disposal of excess material, and other incidentals to complete this work.

Payment will be made under:

### **ITEM S-004, OUTFALL DITCH EXCAVATION, per Linear Foot**

## **ITEM S-005, CONSTRUCTION MATERIALS TESTING**

### **1.0 General**

A. An independent testing laboratory shall be retained by the contractor and approved by St. Tammany Parish Department of Engineering for the purpose of quality assurance sampling and testing of materials and/or performing inspections.

B. Cooperation of the Contractor

The Contractor shall cooperate with the laboratory and shall:

1. Make available without cost samples of all materials to be tested in accordance with applicable standard specifications.
2. Furnish such nominal labor and sheltered working space as is necessary for testing laboratory to obtain samples at the project site.
3. Advise the laboratory of the identity of material sources and instruct the suppliers to allow tests or inspections by the laboratory.
4. Notify the laboratory sufficiently in advance of operations to allow for completion of initial tests and assignment of inspection personnel.
5. Notify the laboratory sufficiently in advance of cancellation of required testing operations. The Contractor shall be responsible to the Parish for charges due to failure to notify if requirements for testing are cancelled.

### **2.0 Testing Methods**

A. Testing and inspections shall be conducted in accordance with the latest applicable LDOTD requirements, or the requirements of any other agencies having control over the work including Tammany Utilities. A sampling plan, to be submitted by the Contractor for approval, is required. All sampling and testing shall be done according to this approved plan.

B. Rejection of Materials

The laboratory shall notify the Contractor of any materials which are not in full conformance with the specifications. The Project Engineer shall also be informed of such notifications.

C. Test Reports

The laboratory shall promptly submit written reports of each test and inspection made to the Parish, Project Engineer, Contractor and to such other parties the Engineer may specify.

A summary of all tests performed, similar to the DOTD 2059 report, is required at the end of the job.

**3.0 Measurement and Payment**

Materials testing of all items as required by LADOTD for St. Tammany approval of this project will not be measured for payment. Payment will be per Lump Sum at the contract unit price. Partial payments will be based on the percentage of contract complete.

Payment will be made under:

**Item S-005, CONSTRUCTION MATERIALS TESTING, per Lump Sum**

**ITEM S-006, ENVIRONMENTAL PROTECTION**

**A. DESCRIPTION**

The work required by this Section shall consist of constructing and maintaining temporary erosion control features that satisfy the terms and conditions of the Storm Water Pollution Prevention Plan (SWPPP) and the National Pollution Discharge Elimination System (NPDES) General Permit. The SWPPP shall be comprised of Section 204 of the Louisiana Standard Specifications for Roads and Bridges, 2016 Edition, and latest revisions, or as amended herein. In addition, the Contractor shall obtain and maintain a Louisiana Department of Environmental Quality Storm Water General Permit for Construction Activities (Permit No. LAR 100000) for the life of the project.

**B. GENERAL**

The Contractor, by signing this contract, certifies under penalty of law that he understands and will abide by the terms and conditions of the Storm Water Pollution Prevention Plan (SWPPP) and the National Pollution Discharge Elimination System (NPDES) General Permit that require the discharges from construction sites be managed to prevent pollutants from entering waters of the United States in accordance with the Environmental Protection Agency's (EPA) regulations for storm water discharges with respect to 33 U.S.C. § 1342 (Sections 402(p) and 405 of Public Law 100-4).

Temporary erosion control will ensure economical, effective and continuous control of erosion and water pollution throughout the life of the contract. The Contractor shall prevent the transmission of soil particles and pollutants into streams, canals, lakes, reservoirs or other waterways. In addition, the Contractor shall note that work may be simultaneously in progress on adjacent sites. The Contractor shall be responsible for coordinating his SWPPP with the SWPPP for adjacent sites.

The Contractor may use the erosion control plan provided in the Construction Documents as part of his SWPPP, or develop his own, to be used in the Notice of Intent (NOI) for the NPDES Permit.

### **C. PERMIT**

The Contractor will be responsible for devising a satisfactory Storm Water Pollution Prevention Plan for the project prior to applying for the Storm Water General Permit for Construction Activities (Permit No. LAR 100000) from the Louisiana Department of Environmental Quality. The LPDES NOTICE OF INTENT (NOI) TO DISCHARGE STORMWATER ASSOCIATED WITH CONSTRUCTION ACTIVITY application must be completed by the Contractor, approved by the Owner and submitted by the Contractor at least two days prior to the initiation of construction to:

STATE OF LOUISIANA  
DEPARTMENT OF ENVIRONMENTAL QUALITY  
Permits Division  
Post Office Box 82135  
Baton Rouge, Louisiana 70884-2135

All implementation duties to comply with the SWPPP and maintain the Storm Water General Permit will be the responsibility of the Contractor.

The Contractor will be required to submit a Notice of Termination (NOT) to the Louisiana Department of Environmental Quality upon acceptance of the project by the Owner.

### **D. MATERIALS**

The Contractor shall provide all labor, equipment and materials necessary to complete all work associated with this item.

### **E. MEASUREMENT AND PAYMENT**

All cost associated with this work including obtaining and maintaining necessary permits, design, labor, equipment or materials required by this section shall be made under this item at the contract unit price. Payment will be distributed based on percentage of contract complete.

Payment, per percentage of contract complete, will be made under:

**ITEM S-006, ENVIRONMENTAL PROTECTION, per Lump Sum**

## **ITEM S-007, EXCAVATION AND REPLACEMENT OF UNSUITABLE MATERIAL**

### **A. GENERAL**

This item consists of removal of unsuitable materials for areas beyond the limits of excavation that are not already accounted for under other pay items. This item shall be as approved by the Project Engineer and will also include subsequent replacement with structural fill.

### **B. MATERIALS**

Structural fill shall consist of sands (SP, SW), clayey sands (SC) or silty sands (SM) with at least 75% passing the No. 4 sieve and containing not more than 15% passing the No 200 sieve. Material shall be compacted to 95% of the maximum dry density as determined by ASTM D698 at moisture content between 1% below and 3% above the optimum moisture content.

### **C. MEASUREMENT AND PAYMENT**

Measurement: Excavation of unsuitable materials and fill quantity will be measured by the cubic yard net section from the void created by the excavation. Unsuitable material that is required to be removed as part of other pay items will not be measured for payment. **Any fill material required between existing ground elevation and bottom of structural fill will not be measured for payment and shall be included in Excavation and Embankment item.**

Payment: Payment shall be full compensation for all labor, materials and equipment required for this item of work. Payment for excavation of unsuitable materials and placement and compaction of structural fill will be made at the contract unit bid price under:

#### **ITEM S-007, EXCAVATION AND REPLACEMENT OF UNSUITABLE MATERIAL, per Cubic Yard Net Section**

### **ITEMS S-008, PLUG AND ABANDON EXISTING WATER WELL**

This item consists of all labor, materials, equipment and permitting necessary to plug and abandon an existing water well located within the right-of-way of the connector road. Contractor shall permit with all necessary agencies, including but not limited to the Louisiana Department of Health and Hospitals, LADOTD, and DEQ, to plug and abandon this water well.

Payment for this item of work will be made under:

#### **ITEM S-008, PLUG AND ABANDON EXISTING WATER WELL, per Each**

### **ITEMS S-009, JUNCTION BOXES**

These items consist of constructing reinforced concrete drainage junction boxes in accordance with these plans, details and LADOTD specification Section 702.

All costs for labor, materials and equipment including excavation, backfill, bedding material, and geotextile fabric shall be included in the contract unit bid price per each junction box.

Measurement and Payment for these items will be made under:

**ITEM S-009-A, JUNCTION BOX TYPE 1, per Each**

**ITEM S-009-B, JUNCTION BOX TYPE 2, per Each**

**ITEM S-009-C, JUNCTION BOX TYPE 3, per Each**

**ITEM S-009-D, JUNCTION BOX TYPE 4, per Each**

### **ITEM S-010, AS-BUILT SURVEY AND PLAN**

This item consists of providing an "As-Built" survey of the completed work performed by a Louisiana licensed Professional Land Surveyor. Survey shall be in State Plane Coordinates and have the following items:

1. Plan showing survey of constructed connector road and improved LA1077 with surveyed finished grades of connector road on 100 foot centers from ROW line to ROW line including roadway gutter line, top of curbs, edge of road, tops and bottoms of side road ditches and shared use path.
2. Horizontal location and inverts of all drain lines and drainage structures.
3. Cross section grades on 100 foot centers of outfall ditch from connector road to Timber Branch.
4. Limits of rip-rap.
5. State Plane Coordinates and Latitude and Longitude of plugged and abandoned water well.

Additional requirements for this item of work are detailed on plans, specifications and special provisions.

Payment will be made under:

**ITEM S-010, AS-BUILT SURVEY AND PLAN, per Lump Sum**

### **ITEM S-011, 5" THICK FULL-DEPTH ASPHALT CONCRETE BASE COURSE (CONNECTOR ROAD)**

#### **A. GENERAL**

This item consists of all labor, materials, and equipment necessary to furnish and place the 5 inch thick full depth layer of asphalt concrete base course. The 5 inch thick full-depth asphalt concrete base course shall be in accordance with LADOTD specification section 302 (class II base course) except 5 inches of full-depth asphalt concrete base course shall be required. **There shall be NO embankment layer within this 5 inch thickness.**

**B. MEASUREMENT AND PAYMENT**

Providing and installing asphalt concrete base course material to the minimum thicknesses, and lines and grades established on plans in accordance with the typical sections shall be included in the contract unit bid price per square yard net section.

Payment will be made under:

**ITEM S-011, 5" THICK FULL-DEPTH ASPHALT CONCRETE BASE COURSE (CONNECTOR ROAD), per Square yard**

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## **SPECIAL PROVISIONS**

*(continued)*

### **SP.02 PRECONSTRUCTION CONFERENCE**

Prior to the start of construction, the Engineer shall schedule a pre-construction conference. The Contractor shall be represented at the conference by his Project Manager, Project Superintendent and any other concerned personnel. Representatives from appropriate Departments of St. Tammany Parish will be invited as well as representatives from the assigned testing laboratory and private utility companies, when necessary.

### **SP.03 WORK SCHEDULING AND PROGRESS CHARTS**

The Contractor shall, within ten (10) days after receipt of Work Order, prepare and submit to the Engineer for approval, a practical schedule showing the order in which the Contractor proposes to carry on the work, the dates on which he will start the phases of the work, and the contemplated dates for completion of same. The schedule shall be in the form of a progress chart of suitable scale to indicate appropriately the percentage of work scheduled for completion at any time.

### **SP.04 COMMUNICATIONS**

All notices, demands, request, instructions, approval, proposals, and claims must be in writing.

The Engineer shall be copied on all correspondence.

### **SP.05 ALIGNMENT, BENCH MARKS, AND CONSTRUCTION LAYOUT**

The Contractor will be responsible for establishing all lines and grades and staking out all work on this project. The Engineer will furnish baseline reference points and benchmarks for use by the Contractor to establish horizontal and vertical controls.

The Contractor shall employ sufficient qualified engineering personnel experienced in layout and construction of highways and bridges to correctly establish and keep complete and comprehensive notebook records of all lines and grades necessary from initial layout to final acceptance. The Contractor will be liable for the accuracy of the initial layout and all subsequent alignment and elevations and shall, at his own expense, rebuild, repair or make good any portion of the work found to be incorrectly positioned either horizontally or vertically at any time before final acceptance. The Contractor shall notify the Engineer immediately of any apparent error in the plans.

The Contractor shall number notebooks for complete and comprehensive recording of all lines and grades. These notebooks shall be provided to the Engineer and shall be properly indexed and cross-referenced by the Contractor for as-built data. The Contractor will responsible for providing a marked-up set of prints showing as-built conditions, and an as-built survey as detailed in the AS-BUILT SURVEY work item.

The Engineer may, at his option, make either spot or complete checks of all construction alignment and grades to determine the correctness of the Contractor's work. However, these checks by the Engineer will not relieve the Contractor of his responsibility for constructing the work in the



positions and to the elevations shown on the plans or approved revisions thereto. All measurements for determination of pay quantities will be plan dimension unless amended by field instruction.

**SP.06 TRAFFIC MAINTENANCE, CONSTRUCTION SIGNING, TEMPORARY SIGNS AND BARRICADES, AND PUBLIC SAFETY**

The Contractor shall be responsible for providing safe and expeditious movement of traffic through construction zones. A construction zone is defined as the immediate areas of actual construction and all abutting area which are used by the Contractor and which interfere with the driving or walking public. The Contractor shall be responsible for installation and maintenance of all devices and requirements in accordance with the construction signing details for the duration of the construction period.

The Contractor shall check twice daily (noting in the daily logs), once in the morning and at the close of work in the evening, daily on weekends and holidays, that all signs, barricades, channelizing devices, striping, lights, etc... are in place and functioning. Videotape of all sign and barricade changes for each phase of construction is required, noting time and date on the video copy. A representative of the Engineer shall be present for videotaping.

The Contractor shall be responsible for removal, relocation, or replacement of any traffic control device in the construction area which exists as part of the normal pre-construction traffic control scheme. Any such actions shall be performed by the Contractor under the supervision, and in accordance with the Specifications, of the St. Tammany Parish Engineering Department, unless otherwise specified. Also, the Contractor should consult with the Engineering Department immediately on any vehicular or pedestrian safety or efficiency problem incurred as a result of construction of the project.

The Contractor shall provide daily reports to the Engineer at the end of each working day, stating that all signs and barricades necessary for construction are in place and operable.

**SP.07 ACCESS TO DRIVEWAYS**

During the construction of the project, the Contractor shall provide temporary access to commercial and residential driveways. Temporary driveways shall consist of Traffic Maintenance Aggregate in accordance with Section 402 of the Louisiana Standard Specifications for Roads and Bridges, 2006 Edition at no direct pay.

**SP.08 CONSTRUCTION NOTIFICATIONS**

The Contractor **shall** contact the Police Department, Fire Department, School Board, U. S. Postal Service, Area Hospitals, Trash Collection Companies, Private Utility Companies, Department of Public Works, Department of Engineering and LADOTD **at least** 48 hours before commencing work **and** closing of any street. The Contractor shall request final approval of any street closing from the St. Tammany Parish Department of Engineering at least ten days **in advance**.

**SP.09 JOB SITE SAFETY**

In accordance with generally accepted construction practices, the Contractor will be solely and completely responsible for conditions on the job site, including the safety of all workmen and other persons as well as property during performance of the work. This requirement will apply continuously and not be limited to normal working hours. The duty of the Project Engineer to observe the Contractor's performance for compliance with design drawings and technical specifications is not intended to include review of the adequacy of the Contractor's Safety measures, in, on, or near the construction site.

**SP.10 CLEANING UP**

The Contractor **shall at all times** keep all roadways being used by him or his sub-contractors free from accumulation of waste materials and other debris caused by his construction operation. There will be no direct payment for this operation.

**SP.11 UNDERGROUND AND OVERHEAD UTILITIES**

Location of existing underground and overhead utilities shown on plans are approximate. Prior to any type of excavation, Contractor shall contact all utility companies (private and public) for the purpose of establishing exact location of utilities in the field.

The Contractor's attention is called to the presence of overhead and underground power lines, underground gas, and communication lines throughout the project. The Contractor is solely responsible for project safety and coordinating his operations with all utility companies.

**SP.12 PRIVATE UTILITY RELOCATION**

Private utilities located on public right-of-way which are required to be permanently relocated at the job site or removed entirely from the job site to accommodate the project will be done so at the expense of the utility owner. Contractor shall coordinate all relocation efforts.

**SP.13 CONSTRUCTION IN VICINITY OF CLECO AND WST TRANSMISSION AND DISTRIBUTION LINES**

While constructing the project, the Contractor may be working near, and under CLECO AND WST overhead and underground power lines. Prior to beginning construction, the Contractor shall contact Mr. Taylor Creech of CLECO at (985) 867-4635 or WST at (985) 839-3562 to coordinate all construction work; and establish necessary safety precautions. All construction work near power lines shall be performed in accordance with OSHA, NEC, CLECO and WST requirements.

The Contractor shall maintain a safe distance from all energized power lines in accordance with OSHA, NEC, CLECO and WST requirements. Contractor shall be responsible for determining the maximum height and reach attainable by any part of any piece of his equipment, and after coordinating with CLECO and WST to determine the height and location of the power line, shall determine the safe clearance which shall not be violated. If the safe clearance will be violated, no work shall be performed until the Contractor coordinates with CLECO and WST to de-energize all necessary lines. The Contractor shall not work under or around the line unless the line is de-energized. If the line is to be de-energized, but is to remain in-place, rather than being removed, the Contractor shall establish a coordination procedure with CLECO and WST to ensure that the

Contractor shall have sufficient notice to allow removal of all equipment (which may violate the safe clearance) from the area prior to the line being re-energized.

These procedures and requirements shall also apply to any buried power lines.

Contractor's full compliance with all procedures and requirements for overhead and underground power lines noted in this special provision shall be maintained at all times. Any necessary relocations of power lines located in CLECO and WST servitudes or CLECO and WST property shall be included within scope of this project and part of Contractor's Bid Price to construct and finalize the work.

**SP.14 COOPERATION BETWEEN CONTRACTORS**

The Contractor shall be cognizant of the fact that other utility related work may be under construction at the same time that this Contract is active. There shall be complete cooperation with any other contractor in the area, and any unavoidable conflicts shall be immediately brought to the Engineer's attention.

**SP.15 CONSTRUCTION IN VICINITY OF EXISTING STRUCTURES, ROADWAYS, SIDEWALKS/DRIVEWAYS, LANDSCAPING, ETC...**

The Contractor shall be fully responsible for maintaining the integrity of all existing structures (fences, poles, etc...), bridges, roadways, sidewalks/driveways, landscaping, etc... within the project limits, throughout the duration of the project. Any damage to these structures/facilities resulting from the Contractor's operation shall be repaired or replaced at Contractor's expense. All repairs and replacements shall be made to the satisfaction of the Engineer and Owner. There shall be "No Direct Pay" for any work or materials required to maintain the integrity of these structures/facilities.

**SP.16 DISPOSAL OF CONCRETE, ASPHALT AND UNCLASSIFIED EXCAVATION**

All concrete and asphalt pavements, walks and curbs removed from the project, as well as all unclassified excavation not otherwise used in the project, shall become the property of the Contractor, and shall be legally disposed of off site at no cost to the owner.

**SP.17 DRAINAGE**

Contractor shall not impede existing or new drainage during rainstorms or when a storm is imminent.

**SP.15 EXISTING SOIL CONDITIONS**

Soil borings have not been provided in these Contract Drawings. Contractor, at his expense, may make soil investigations as he deems necessary to determine conditions that will affect the performance of the work.

**SP.19 PILE AND SHEET PILE DRIVING**

The Contractor is cautioned that vibrations resulting from any pile driving operation can cause structural damage to adjacent houses and other structures. He is advised to take every precaution

to monitor these vibrations and to assure that they remain within safe limits, in accordance with the requirements of the U.S. Bureau of Mines, 1980.

**SP.20 GRASS CUTTING**

The Contractor shall cut grass areas within project limits per directions from the Project Engineer throughout the life of the project. There shall be "No Director Payment" for this work.

**SP.21 PARTIAL USE OF SITE IMPROVEMENTS**

The Owner, at his discretion, may give notice to the Contractor that certain sections of the improvements which have been completed, inspected, and can be accepted as complying with the Technical Specifications will be placed in use, provided that the following conditions are met:

1. In the Owner's opinion, each section is reasonably safe, fit and convenient for use provided.
2. The use of such sections of the improvements shall in no way impede the completion of the remainder of the work by the Contractor.
3. The Contractor shall not be responsible for any damages or maintenance costs due directly to the use of such sections.
4. The use of such shall in no way relieve the Contractor of his liability due to having used defective materials or to poor workmanship.
5. The period of guarantee stipulated in the General Specifications and Conditions hereof, shall not begin to run until the date of the final acceptance of all work which the Contractor is required to construct under this Contract.

**SP.22 MEASUREMENT AND PAYMENT**

Measurement and payment shall be as specified on plans and specifications. No direct payment will be made for any item of work normally required for the type of construction involved that is not a pay item on the Proposal Form. All measurements for payment shall be made by the Project Engineer, or his authorized representative.

**SP.23 CORRECTION OF WORK AFTER FINAL PAYMENT**

Neither the final payment nor any provision in the Contract Documents shall relieve the Contractor of the responsibility for negligence or faulty materials, equipment, or workmanship, and upon written notice he shall remove any defects due thereto and pay for any damage due to other work resulting therefrom which shall appear within one year after date of completion and acceptance.

**SP.24 UTILITY DISRUPTION**

If the Contractor or any of his sub-contractors plan to disrupt utility service (i.e. sewer, water, electricity, gas, telephone, etc.), to perform any portion of his work, the Contractor shall adhere to the following requirements:

- a) All businesses and residences affected by the disruption of the utility must be given written notice a minimum of forty-eight (48) hours in advance. In addition, the Contractor shall make no less than three (3) attempts to personally contact an individual at each affected

business or residence. The first attempt may be while delivering the written notification, and the last attempt should be the evening prior to the disruption.

- b) The Contractor shall not disconnect the utility until after 8:00 a.m. on the morning that the work is to be performed.
- c) The Contractor shall contact each business to determine if special arrangements (such as temporary water supply, port-o-lets, etc.) are necessary during the period of the utility disruption. The Contractor shall not disrupt service until all special arrangements are in place or the Contractor has received approval by the Parish to proceed.
- d) All service must be restored at the end of each day, unless previously approved by the Parish.
- e) There shall be "No Direct Payment" for any necessary work or materials needed to perform these requirements.

#### **SP.25 INSPECTION, SAFETY**

Engineer will not be responsible for Contractor's means, methods, techniques, sequences or procedures of construction, or the safety precautions and programs incident thereto, and he will not be responsible for Contractor's failure to perform the work in accordance with the Contract Documents. Engineer will not be responsible for the acts or omissions of Contractor, or any Subcontractors, or any of their agents or employees, or any other persons at the site or otherwise performing any of the work.

The Engineer under this Contract is performing services solely for the Owner, no benefit is conferred upon any other party and no claim against the Engineer shall accrue to any party other than the Owner as a result of the performance or nonperformance of engineering services and all parties to this Contract, including surety, agree that subrogation of the Owner's rights does not give any other party, including surety, a right to claim against the Engineer.

In accordance with generally accepted construction practices, the Contractor will be solely and completely responsible for conditions on the job site, including safety of all workmen and other persons and property during performance of the work. This requirement will apply continuously and not be limited to normal working hours.

The duty of the Engineer (and all of his employees) is to observe the Contractor's construction performance in compliance with the design drawings and technical specifications and is not intended to include any review of the adequacy of the Contractor's safety measures on or off the construction site.

The duty of the Project Engineer to observe the Contractor's performance is not intended to include review of the adequacy of the Contractor's safety measures, in, on, or near the construction site.

#### **SP.26 PROTECTION OF TREES, PLANTS, AND SHRUBBERY**

The Contractor shall be responsible for protecting all trees, plants, and ornamental shrubbery on the line of or adjacent to the proposed construction, whether these trees, plants and shrubbery are within the street right-of-way or not. Any damaged trees, plants, and ornamental shrubbery shall be replaced in like kind and size at the Contractor's expense.

**SP.27 DAMAGED STRUCTURES AND ROADWAY**

The Contractor shall at his own expense remove and replace any damaged structures and roadways caused by the performance of his construction work as directed by the Engineer and Owner.

**SP.28 DAILY REPORT**

The Contractor **shall** provide daily reports at the end of the working day to the Construction Engineer stating that all signs and barricades necessary for construction are in place and operable.

**SP.29 EXISTING POWER POLES**

Where excavation is required adjacent to existing power poles or other structures, the Contractor has the responsibility to maintain the integrity of the structure by bracing or other means subject to the approval of the project Engineer and the utility owner (no direct payment).

**SP.30 SITE SURVEY**

Prior to mobilization onto the jobsite, the Contractor shall conduct a detailed survey that shall include pre-construction photographs and video tapes of the jobsite, surrounding areas and access routes. Costs for this work shall be included in mobilization item.

**SP.31 ELECTRICAL POWER AND WATER SUPPLY**

The Contractor shall make arrangements for electric power and water supply for construction and testing purposes from the respective companies serving the area and shall pay all charges therefore, including installation, service and use charges.

**SP.32 SHEETING, BRACING AND FALSEWORK**

Contractor shall furnish, install and remove any and all sheeting, bracing and falsework necessary for construction of specified items of work included in this project.

This provision shall include but is not necessarily limited to any and all required trench and excavation sheeting, lateral support bracing, falsework, forms, and dewatering stops together with all labor, materials and equipment necessary to insure safety of workmen and satisfactory completion of each specified item of work. All sheeting, bracing and falsework shall be in accordance with OSHA regulations.

**SP.33 CONTRACT TIME EXTENSION**

The contractor shall document for each month of the scheduled construction, the occurrence of adverse weather conditions having an impact on controlling items of work. An adverse weather day is a previously scheduled or normally scheduled work day on which rainfall, wet conditions or cold weather will prevent construction operations on the controlling work activity from proceeding for at least five (5) continuous hours of the day or sixty-five (65) percent of the normal work day, whichever is greater, with the normal working force engaged in performing the controlling item of work.

If the contractor submits a written request for additional contract time due to adverse weather conditions, the contractor's request will be considered only after the Engineer agrees with the days and then only for adverse weather days in excess of allowable number of days per month stated below. Adverse weather days will be documented by the Engineer and agreed upon monthly. Adverse weather days will be prorated for partial months when a work order or final inspection is issued other than the first or last of the month and agreed to by the Engineer.

If the contractor is being considered for disqualification by the department, an equitable adjustment in contract time may be made at the end of the original contract period, including all days added by approved change orders.

Contract time will be adjusted by comparing the actual number of adverse weather days to the statistical number of adverse weather days over the specific time period per the table below. The resulting number of adverse weather days will be multiplied by 1.45 to convert the calendar days.

Adjustments for adverse weather cannot result in a contract time reduction. Once adjusted, a new adverse weather day accounting will begin using the adverse weather conditions having an impact on the controlling items of work, in excess of the allowable number of days per month stated below. A second and final contract time adjustment will be done at the final acceptance of the project.

An adjustment in the contract time due to adverse weather will not be cause for an adjustment in the contract amount. There will be no direct or indirect cost reimbursement for excess adverse weather days.

The following are anticipated adverse weather days that the contractor shall include in each month of his calendar day construction schedule.

January	10 days	May	5 days	September	4 days
February	9 days	June	6 days	October	3 days
March	8 days	July	6 days	November	7 days
April	7 days	August	5 days	December	7 days

#### **SP.34 RESIDENT PROJECT REPRESENTATIVE'S FIELD OFFICE FACILITIES**

In addition to the Contractor's field office space, the Contractor shall also immediately provide a separate field office space (or office trailer) for the use of the Engineer and the Resident Project Representative(s). The office shall contain a minimum of 150 square feet of floor space, shall have Wi-Fi and electrical service (w/convenience outlets) and shall be lighted, heated, and air conditioned. One (1) desk and desk chair and one (1) 4-drawer lockable file cabinet (legal size) shall be provided. This office space shall be lockable with passage locks provided by the Contractor and separate lock hasp devices suitable for the Resident Project Representative's own pad lock. Three (3) chairs and one

table shall also be provided. The Contractor shall provide an air conditioner to maintain the office temperature at 68°F. The Contractor shall pay for Wi-Fi service.

It shall be the Contractor's responsibility to provide arrangements for additional land required for location of the Resident Project Representative's office space near the project site. The location for the field office must be approved by the Engineer in writing prior to the performance of this work.

The field office shall be furnished, equipped, satisfactorily maintained, moved as directed, and subsequently removed from the project upon completion of construction. All costs associated with the field office shall be included in the Mobilization Bid Item.



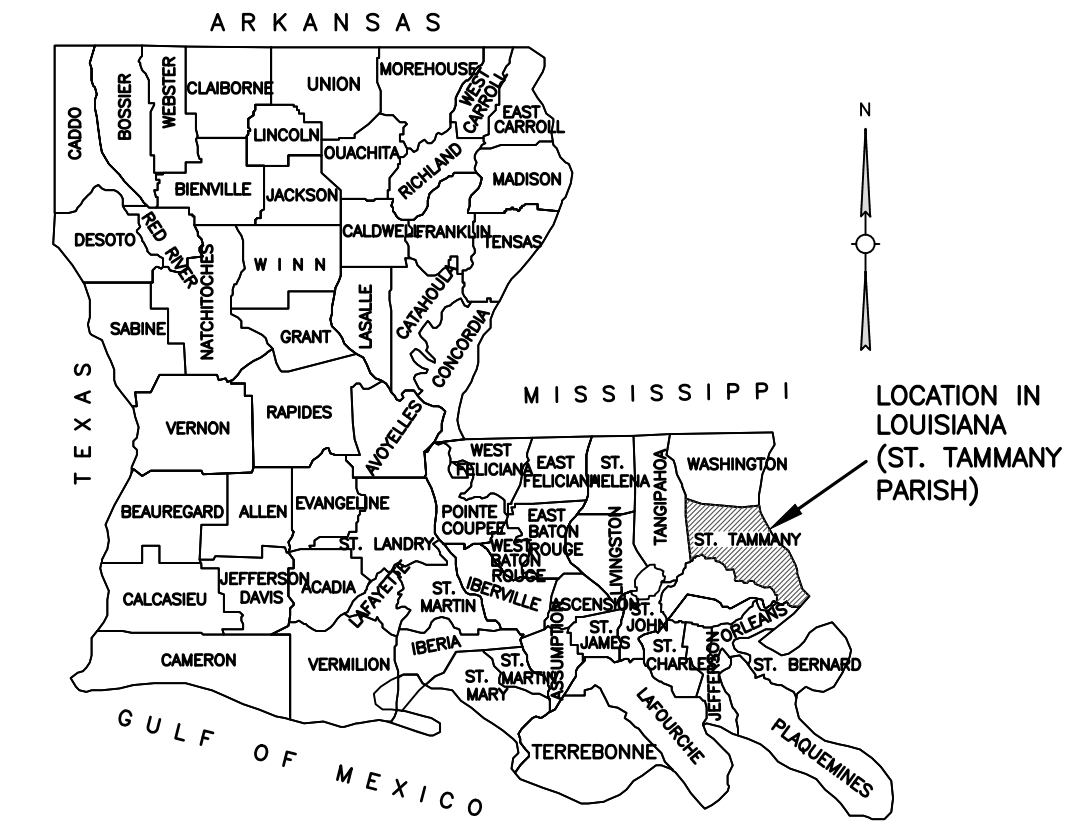
INDEX TO SHEETS

SHEET NO.	DESCRIPTION
1	TITLE SHEET AND LAYOUT MAP
2-2k	TYPICAL SECTIONS
2l	DRAINAGE DETAILS
2m-2p	JUNCTION BOX MANHOLE DETAILS
2q	DRIVEWAY & SIDEWALK DETAILS
2r	GENERAL NOTES
3, 3a	SUMMARY OF QUANTITIES
4-28	PLAN/PROFILE SHEETS
29	BOX CULVERT LAYOUT - OCHSNER BLVD
30	REQUIRED DRAINAGE DITCH
31	REQUIRED DRAINAGE MAPS
32-36	GEOMETRIC DETAILS
37-41	PERMANENT MARKING AND SIGNING LAYOUT
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46	BASELINE LAYOUT SHEET & CULVERT SCHEDULE
47	EROSION CONTROL PLAN
48	SOIL BORING LOCATION MAP
49-52	SOIL BORING LOGS

ST. TAMMANY PARISH PROJECT NO. 2013EN0007

LA 1077 / LA 21 CONNECTOR ROAD

ST. TAMMANY PARISH

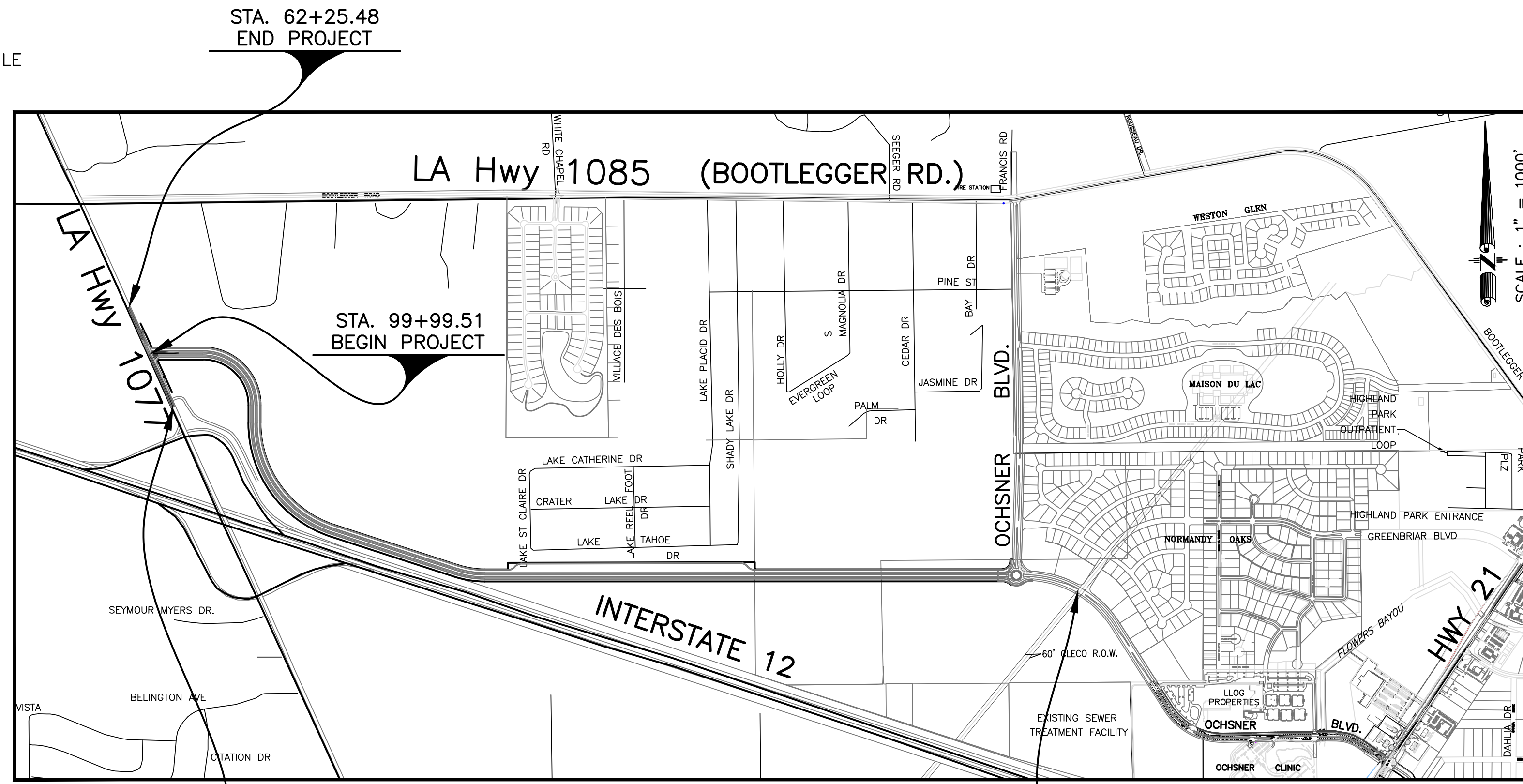


VICINITY MAP

STANDARD PLANS

SHEET NO.	REVISION	DATE
301, 302	BM-01 (1,2 of 2)	08-22-07
303	CB-01	11-02-00
304	CB-20PEN06	07-15-11
305-307	CP-01 (1-3 of 3)	05-11-17
308	DW-01	11-17-17
309	DW-02	11-17-17
310, 311	EC-01 (1,2 of 2)	10-01-08
312	HS-03	04-07-14
313-316	PED-01 (1,3,5,6 of 6)	06-03-19
317	PM-01	02-28-19
318	PM-02	02-28-19
319	PM-05	02-28-19
320	PM-06	02-28-19
321	PM-09	02-28-19
322	RM-01	06-03-09
323-326	TTC-00 (A-D)	07-02-18
327	TTC-02	07-02-18
328	TTC-04	07-02-18
329	WP-01	12-23-13

SHEET NO.	CROSS SECTIONS
401- 424	
TOTAL NO. OF SHEETS WITHOUT CROSS SECTIONS	- 100
TOTAL NO. OF SHEETS WITH CROSS SECTIONS	- 124

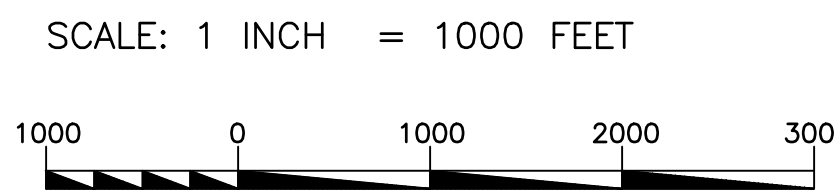


LAYOUT MAP

DESIGN CLASS: URBAN COLLECTOR 1

DESIGN SPEED = 40 MPH

DATUM USED : NAVD 1988  
 MAG. VAR. : N/A  
 GEOID : 12A  
 BEARINGS ARE : LA SOUTH (NAD '83)  
 TRANSIT BOOKS : N/A



LEVEL BOOKS : N/A  
 SCALES  
 PLAN : 1" = 20'  
 PROFILE: HORIZ. 1" = 20'  
 VERT. 1" = 2'

NOTE:  
 THE 2016 EDITION OF THE LOUISIANA DOTD STANDARD SPECIFICATIONS FOR ROADS AND BRIDGES, AS AMENDED BY THE PROJECT SPECIFICATIONS, SHALL GOVERN ON THIS PROJECT

REFERENCE BENCH MARKS:  
 1. A P.K. NAIL SET ON THE NORTH SIDE OF I-12 IN THE CONCRETE MEDIAN FOR HIGHWAY 1077, 230'+/- SOUTHEAST OF THE 42"x60" CMPA CROSS CULVERT AT THE INTERSECTION OF HIGHWAY 1077 AND THE SERVICE ROAD, ELEV. = 26.32'  
 2. AN "X" SCRIBED IN THE BACK OF CURB ON THE WEST SIDE OF THE ISLAND IN THE CUL-DE-SAC FOR OCHSNER BOULEVARD EXTENSION, ELEV. = 20.97'

TYPE OF CONSTRUCTION :  
 PORTLAND CEMENT CONCRETE AND ASPHALT PAVEMENT ROADWAY, SUBSURFACE DRAINAGE, ASSOCIATED STRIPING.

SCHEDULE OF REVISIONS

NO.	DATE	SHEETS REVISED

RECOMMENDED FOR APPROVAL



FRANZ J. ZEMMER, P.E.  
 RICHARD C. LAMBERT CONSULTANTS, LLC

APPROVED BY

JAY WATSON, P.E.  
 PARISH ENGINEER, ST. TAMMANY PARISH  
 DEPARTMENT OF PUBLIC WORKS

LENGTH AND LOCATION OF WORK

CONTROL SECTION	STATION		LOGMILE		ALGEBRAIC SUM OF ALL EQUATIONS	GROSS LENGTH FEET	EXCEPTION FEET	BRIDGE LENGTH		ROADWAY LENGTH	
	BEGIN FEET	END FEET	BEGIN MILES	END MILES				FEET	MILES	FEET	MILES
852-03	48+45.22	62+25.48	3.129	3.390						1380.26	0.261
	99+99.51	207+26.09								10,726.58	2.032
TOTAL LENGTH OF BRIDGES											
TOTAL LENGTH OF ROADWAY										12,106.84	2.293
TOTAL MILES										2.293	



RICHARD C. LAMBERT CONSULTANTS, L.L.C.  
 900 W. Causeway Appr. Manvelville, LA 70471  
 New Orleans, LA 70113  
 829 Barome 985-727-4440  
 985-727-4440  
 Fax: 985-727-4447

DESIGNED	CHECKED	DATE	BY

NO.	DATE	REVISION DESCRIPTION

TITLE SHEET

Project Number: RCLC No 714-08

Sheet Number: 1

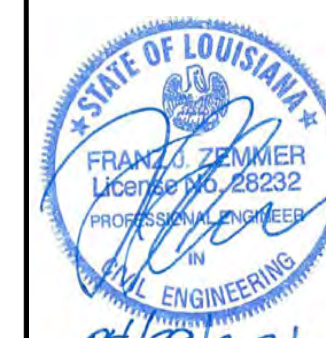


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CHECKED	FJZ
DATE	04/29/21
SHEET	2

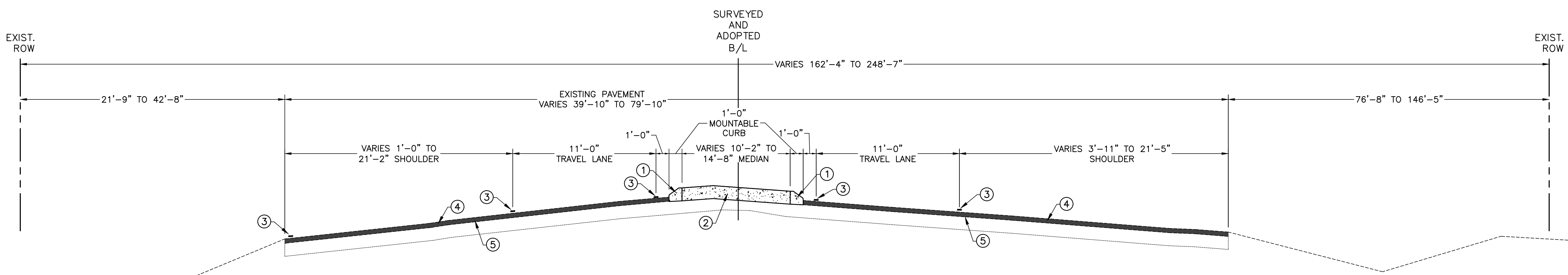
NO.	DATE	REVISION DESCRIPTION	BY

**TYPICAL SECTIONS**  
LA 1077/LA 21 CONNECTOR ROAD

Project Number:  
RCLC No: 714-08



04/29/2021  
Sheet Number:

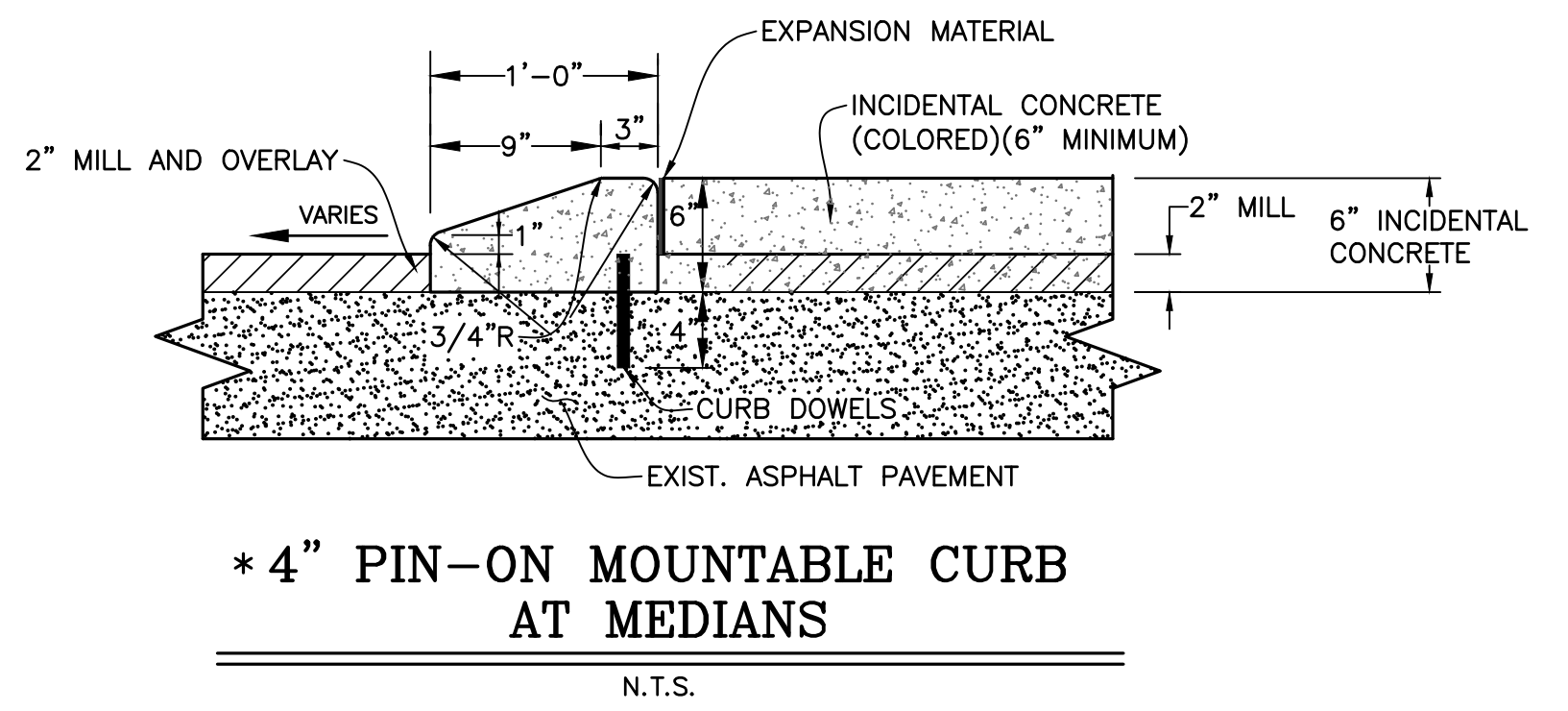
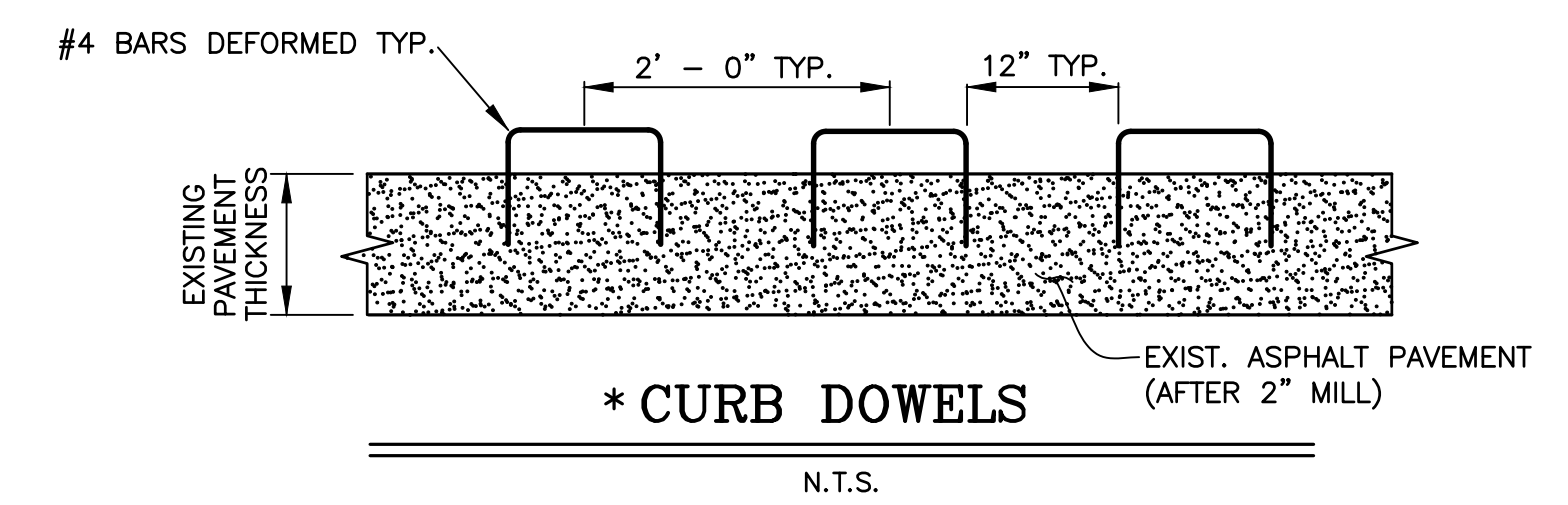


**TYPICAL REQUIRED ROADWAY SECTION**  
**LA HWY. 1077**  
**STA. 48+45.22 TO 50+24.18**  
(LOOKING UP STATION)

**LEGEND**

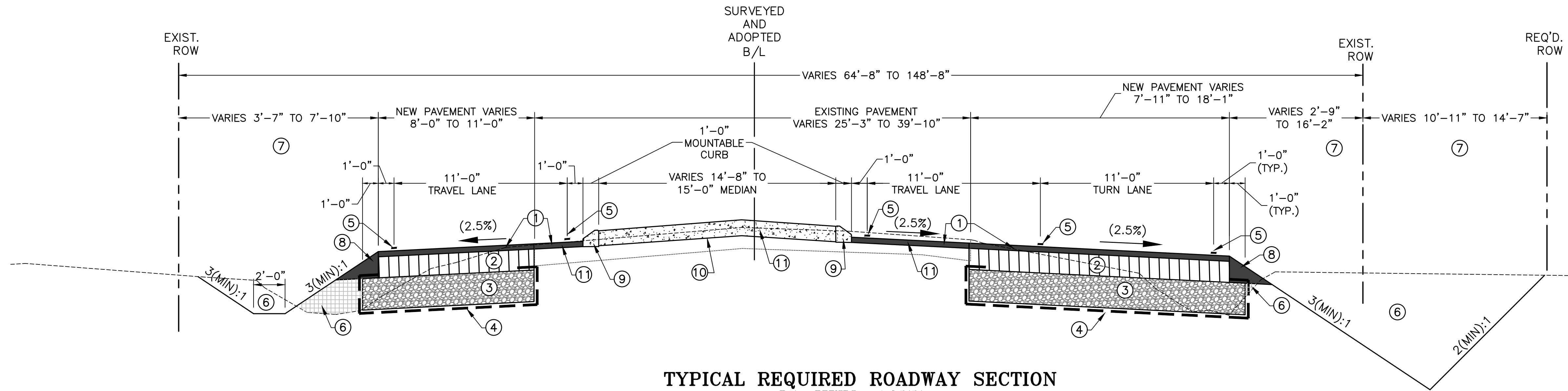
- \* ① 4" PIN-ON MOUNTABLE CURB
- \*\* ② INCIDENTAL CONCRETE (COLORED)(6" THICK)
- ③ REQUIRED PAVEMENT STRIPING
- ④ 2" ASPHALT CONCRETE WEARING COURSE (LEVEL 2F)
- ⑤ EXISTING ASPHALT TO BE MILLED TO 2" AVERAGE DEPTH

- NOTES:**
- \*\* 1. CONSTRUCTION REQUIREMENTS FOR TINTED AND TEXTURED CONCRETE ON SPLITTER ISLANDS SHALL BE CLASS (M) CONCRETE IN ACCORDANCE WITH SECTION 706 EXCEPT AS NOTED IN THE FOLLOWING SUBSECTION:  
(A) COLOR: SHALL BE BRICK RED.



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**TYPICAL REQUIRED ROADWAY SECTION**  
**LA HWY. 1077**  
**STA. 50+24.18 TO 53+86.82**  
(LOOKING UP STATION)

**LEGEND**

- ① 2" ASPHALT CONCRETE WEARING COURSE (LEVEL 2F)
- ② 8" ASPHALT CONCRETE BINDER COURSE (LEVEL 2)
- \* ③ CLASS II BASE COURSE (12" THICK)
- ④ GEOTEXTILE FABRIC
- ⑤ REQUIRED PAVEMENT STRIPING
- \*\* ⑥ EXCAVATION AND EMBANKMENT
- ⑦ LIMITS OF HYDRO-SEEDING
- ⑧ ASPHALT SHOULDER WEDGE
- ⑨ 4" PIN-ON CONCRETE MOUNTABLE CURB
- △ ⑩ INCIDENTAL CONCRETE (COLORED)(6" MINIMUM)
- ⑪ EXISTING ASPHALT TO BE MILLED TO 2" AVERAGE DEPTH

**NOTES:**

- \* CLASS II BASE COURSE SHALL BE A TOTAL OF 12" THICK COMPRISING OF EITHER:
  - A) 12" CRUSHED STONE
  - B) 12" RECYCLED PORTLAND CEMENT CONCRETE PAVEMENT (PCCP)
  - C) 6" ASPHALT CONCRETE BASE ON 6" EMBANKMENT LAYER
- ASPHALT CONCRETE BASE SHALL BE AS DEFINED IN SECTION 302 OF THE LOUISIANA STANDARD SPECIFICATIONS FOR ROADS AND BRIDGES, 2016 EDITION. GEOTEXTILE FABRIC SHALL BE PLACED UNDER AGGREGATE BASE.
- \*\* PLASTIC EMBANKMENT SHALL BE USED FOR FILLING AREAS OUTSIDE PAVING LIMITS. PLASTIC EMBANKMENT SHALL BE IN ACCORDANCE WITH SECTION 203 OF THE 2016 EDITION OF THE LOUISIANA DOTD STANDARD SPECIFICATIONS FOR ROADS AND BRIDGES AND SUBJECT TO APPROVAL OF THE PROJECT ENGINEER. NON-PLASTIC EMBANKMENT SHALL BE USED TO FILL AREAS UNDER CLASS II BASE COURSE AND 12" STRUCTURAL FILL UNDER CONCRETE PAVEMENT.
- ③ 8" ASPHALT CONCRETE BINDER COURSE IS TO BE LAID IN 3 LIFTS.
- ALL ASPHALT ALONG HWY. 1077 WITHIN PROJECT LIMITS TO BE MILLED TO A 2" DEPTH.
- △ CONSTRUCTION REQUIREMENTS FOR TINTED AND TEXTURED CONCRETE ON SPLITTER ISLANDS SHALL BE CLASS (M) CONCRETE IN ACCORDANCE WITH SECTION 706 EXCEPT AS NOTED IN THE FOLLOWING SUBSECTION:
  - (A) COLOR: SHALL BE BRICK RED.

**ASPHALT SHOULDER WEDGE NOTES:**

1. SHOULDER WEDGES SHALL BE REQUIRED AT THE OUTSIDE EDGES OF THE PAVED ROADWAY (EDGE OF TRAVEL LANE OR EDGE OF PAVED SHOULDER).
2. THE PAVER SHALL BE EQUIPPED WITH A MECHANICAL DEVICE THAT WILL PRODUCE A WEDGE WITH A UNIFORM TEXTURE, SHAPE, AND DENSITY WHILE AUTOMATICALLY ADJUSTING TO VARYING HEIGHTS ENCOUNTERED ALONG THE SHOULDER EDGE.
3. THE CONTRACTOR SHALL BLADE AND SHAPE EXISTING GROUND OR SHOULDER MATERIAL TO FORM A UNIFORM SURFACE UNDER THE WEDGE PRIOR TO PLACEMENT OF THE PAVEMENT.
4. THE CONTRACTOR SHALL STAGE CONSTRUCTION BY PULLING UP THE SHOULDER OR FORESLOPE MATERIAL IN THE LOWER LIFTS, THEN UTILIZING THE WEDGE IN THE FINAL 2 LIFTS.
5. ASPHALT SHOULDER WEDGE SHALL BE PAID BY THE TON UNDER ITEM NO. 502-01-00100A.

**TYPICAL SECTIONS**

LA 1077/LA 21 CONNECTOR ROAD

Project Number:  
RCLC No: 714-08



04/29/2021

Sheet Number:

**2a**



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DATE	04/29/21
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**TYPICAL SECTIONS**

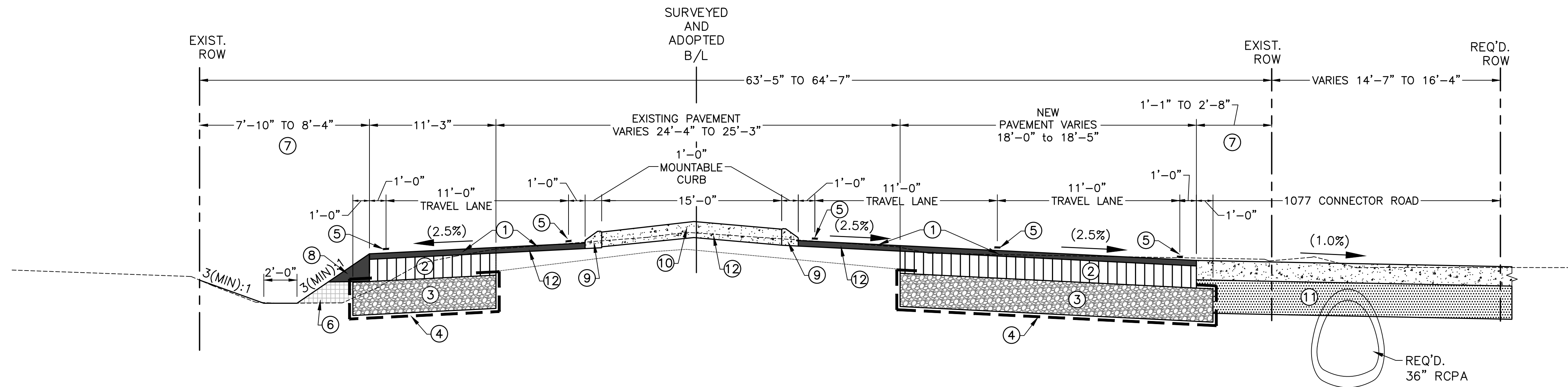
LA 1077/LA 21 CONNECTOR ROAD

Project Number:  
RCLC No: 714-08



04/29/2021

Sheet Number:  
**2b**



**TYPICAL REQUIRED ROADWAY SECTION**  
**LA HWY. 1077**  
**STA. 53+86.82 TO 55+66.87**  
(LOOKING UP STATION)

**LEGEND**

- ① 2" ASPHALT CONCRETE WEARING COURSE (LEVEL 2F)
- ② 8" ASPHALT CONCRETE BINDER COURSE (LEVEL 2)
- \* ③ CLASS II BASE COURSE (12" THICK)
- ④ GEOTEXTILE FABRIC
- ⑤ REQUIRED PAVEMENT STRIPING
- \*\* ⑥ EXCAVATION AND EMBANKMENT
- ⑦ LIMITS OF HYDRO-SEEDING
- ⑧ ASPHALT SHOULDER WEDGE
- ⑨ 4" PIN-ON CONCRETE MOUNTABLE CURB
- △ ⑩ INCIDENTAL CONCRETE (COLORED)(6" MINIMUM)
- \*\*\* ⑪ STRUCTURAL FILL MATERIAL
- ⑫ EXISTING ASPHALT TO BE MILLED TO 2" AVERAGE DEPTH

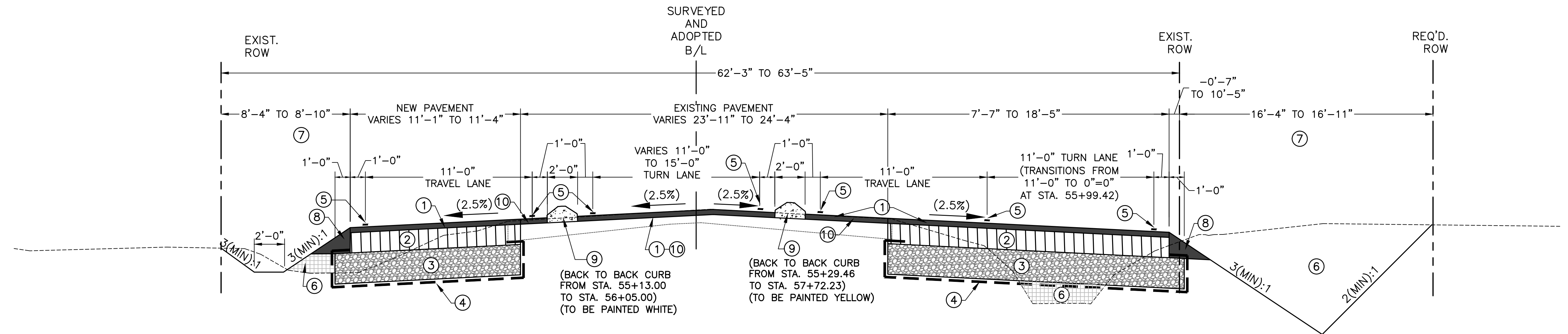
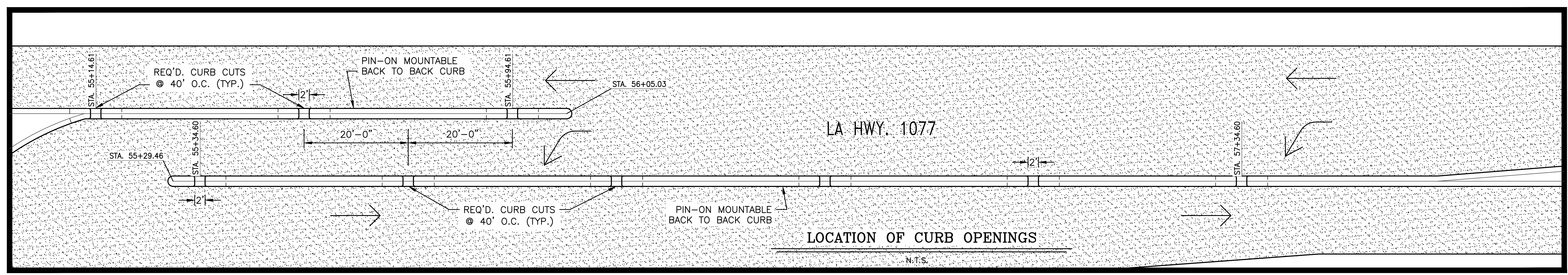
- NOTES:**
- \* CLASS II BASE COURSE SHALL BE A TOTAL OF 12" THICK COMPRISING OF EITHER:  
A) 12" CRUSHED STONE  
B) 12" RECYCLED PORTLAND CEMENT CONCRETE PAVEMENT (PCCP)  
C) 6" ASPHALT CONCRETE BASE ON 6" EMBANKMENT LAYER
  - ASPHALT CONCRETE BASE SHALL BE AS DEFINED IN SECTION 302 OF THE LOUISIANA STANDARD SPECIFICATIONS FOR ROADS AND BRIDGES, 2016 EDITION. GEOTEXTILE FABRIC SHALL BE PLACED UNDER AGGREGATE BASE.
  - \*\* PLASTIC EMBANKMENT SHALL BE USED FOR FILLING AREAS OUTSIDE PAVING LIMITS. PLASTIC EMBANKMENT SHALL BE IN ACCORDANCE WITH SECTION 203 OF THE 2016 EDITION OF THE LOUISIANA DOTD STANDARD SPECIFICATIONS FOR ROADS AND BRIDGES AND SUBJECT TO APPROVAL OF THE PROJECT ENGINEER. NON-PLASTIC EMBANKMENT SHALL BE USED TO FILL AREAS UNDER CLASS II BASE COURSE AND 12" STRUCTURAL FILL UNDER CONCRETE PAVEMENT.
  - \*\*\* THE STRUCTURAL FILL MATERIAL SHALL CONSIST OF SANDS (SP, SW) CLAYEY SANDS (SC) OR SILTY SANDS (SM) WITH AT LEAST 75 PERCENT PASSING THE No. 4 SIEVE AND CONTAINING NOT MORE THAN 15 PERCENT PASSING THE No. 200 SIEVE. MATERIAL SHALL BE COMPACTED TO 95 PERCENT OF THE MAXIMUM DRY DENSITY AS DETERMINED BY ASTM D698 AT MOISTURE CONTENT ONE (1) PERCENT BELOW AND THREE (3) PERCENT ABOVE THE OPTIMUM MOISTURE CONTENT.
  - ③ 8" ASPHALT CONCRETE BINDER COURSE IS TO BE LAID IN 3 LIFTS.
  - ALL ASPHALT ALONG HWY. 1077 WITHIN PROJECT LIMITS TO BE MILLED TO A 2" DEPTH.
  - △ CONSTRUCTION REQUIREMENTS FOR TINTED AND TEXTURED CONCRETE ON SPLITTER ISLANDS SHALL BE CLASS (M) CONCRETE IN ACCORDANCE WITH SECTION 706 EXCEPT AS NOTED IN THE FOLLOWING SUBSECTION:  
(A) COLOR: SHALL BE BRICK RED.

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DATE	04/29/21			
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**TYPICAL SECTIONS**  
LA 1077/LA 21 CONNECTOR ROAD



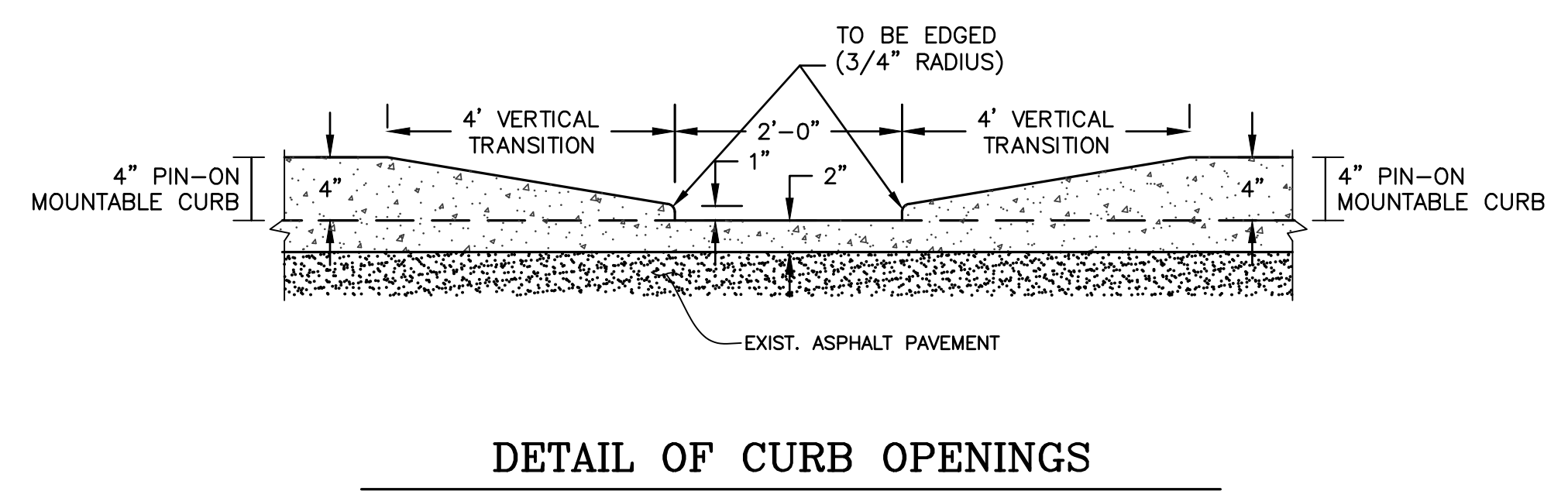
**TYPICAL REQUIRED ROADWAY SECTION**  
**LA HWY. 1077**  
**STA. 55+66.87 to 57+49.42**  
(LOOKING UP STATION)

**LEGEND**

- ① 2" ASPHALT CONCRETE WEARING COURSE (LEVEL 2F)
- ② 8" ASPHALT CONCRETE BINDER COURSE (LEVEL 2)
- \* ③ CLASS II BASE COURSE (12" THICK)
- ④ GEOTEXTILE FABRIC
- ⑤ REQUIRED PAVEMENT STRIPING
- \*\* ⑥ EXCAVATION AND EMBANKMENT
- ⑦ LIMITS OF HYDRO-SEEDING
- ⑧ ASPHALT SHOULDER WEDGE
- ⑨ 4" PIN-ON CONCRETE MOUNTABLE BACK TO BACK CURB
- ⑩ EXISTING ASPHALT TO BE MILLED TO 2" AVERAGE DEPTH

**NOTES:**

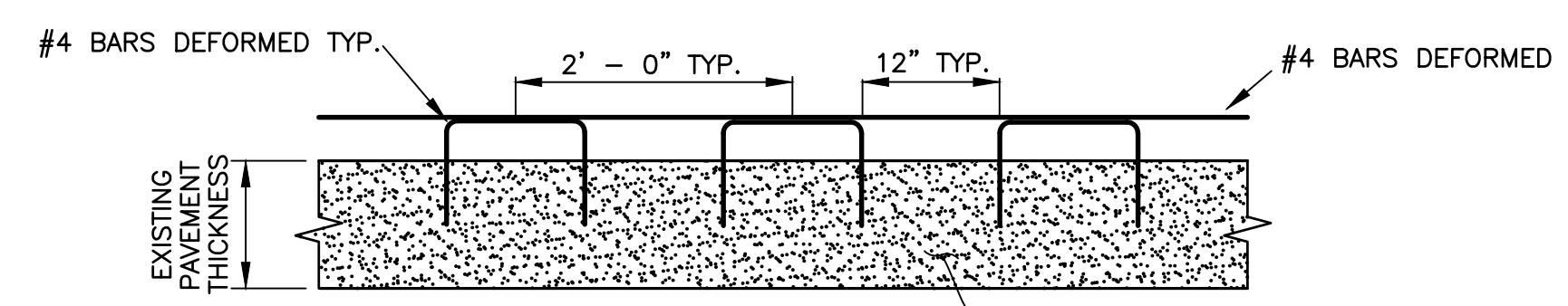
- \* CLASS II BASE COURSE SHALL BE A TOTAL OF 12" THICK COMPRISING OF EITHER:
  - A) 12" CRUSHED STONE
  - B) 12" RECYCLED PORTLAND CEMENT CONCRETE PAVEMENT (PCCP)
  - C) 6" ASPHALT CONCRETE BASE ON 6" EMBANKMENT LAYER
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- ② 8" ASPHALT CONCRETE BINDER COURSE IS TO BE LAID IN 3 LIFTS.
- ALL ASPHALT ALONG HWY. 1077 WITHIN PROJECT LIMITS TO BE MILLED TO A 2" DEPTH.



**DETAIL OF CURB OPENINGS**

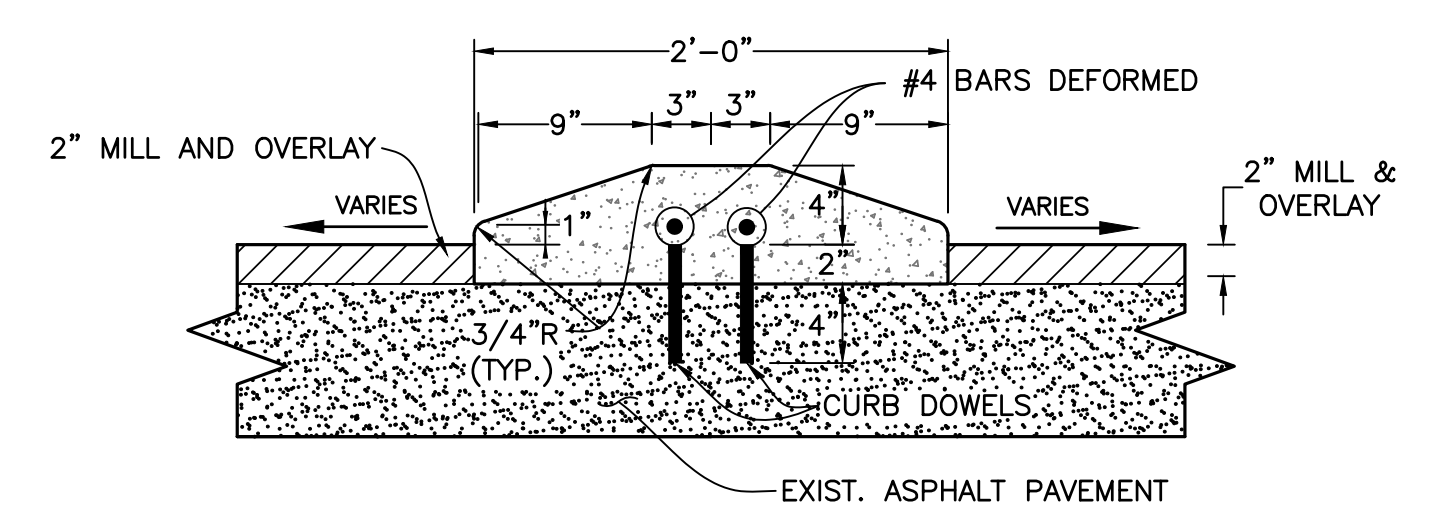
N.T.S.

CURB OPENINGS ARE TO BE PLACED EVERY 40 FEET OR AS DIRECTED BY THE PROJECT ENGINEER. SEE LOCATIONS ON PLANS. COST IS INCLUDED IN BID ITEM 707-01-00300.



**CURB DOWELS**

N.T.S.



**4" PIN-ON MOUNTABLE BACK TO BACK CURBS**

N.T.S.

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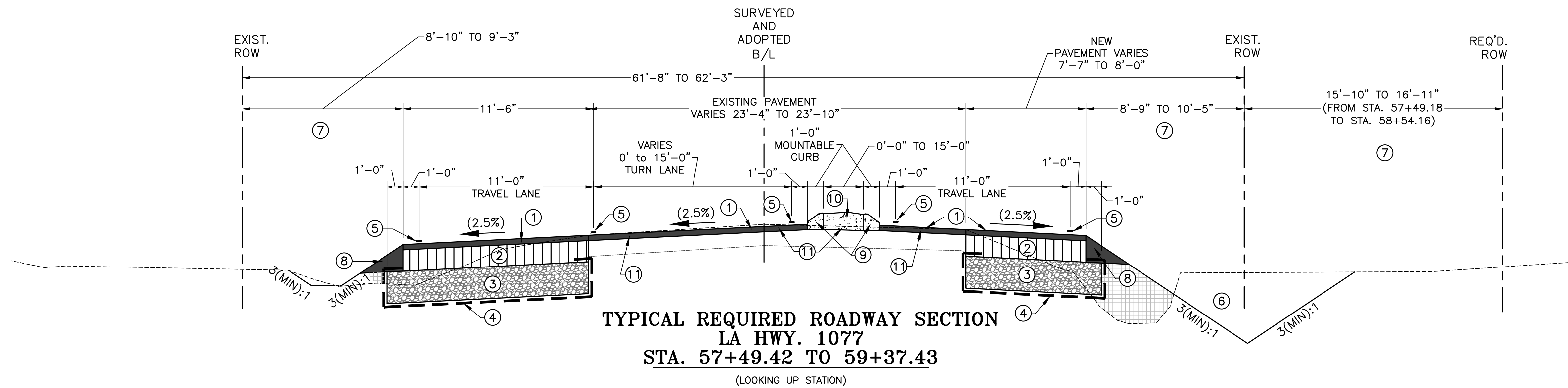
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LA 1077/LA 21 CONNECTOR ROAD

Project Number:  
RCLC No: 714-08



04/29/2021  
Sheet Number:

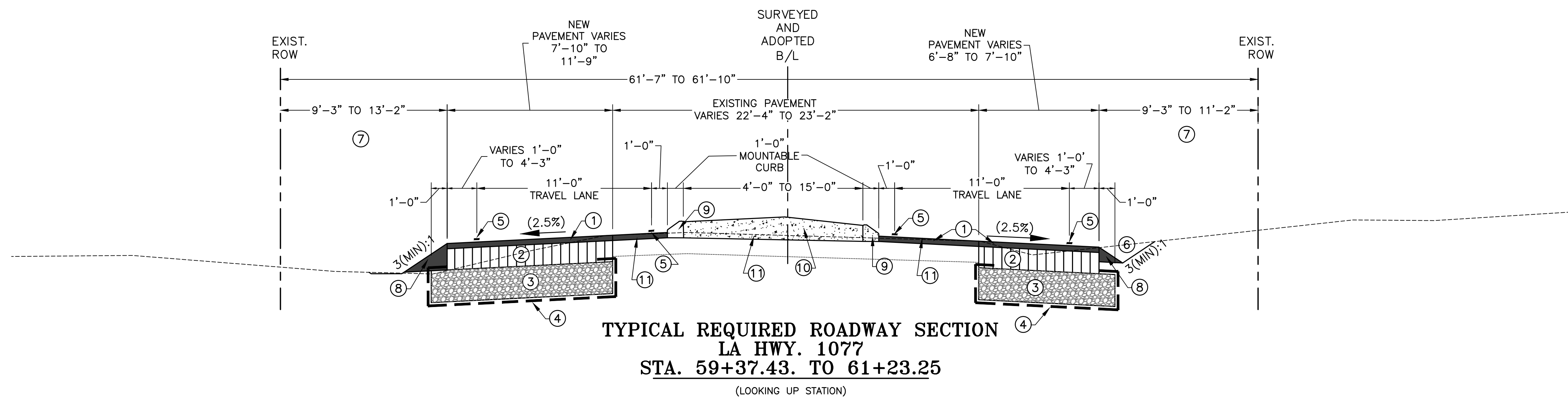
**2d**



**LEGEND**

- ① 2" ASPHALT CONCRETE WEARING COURSE (LEVEL 2F)
- ② 8" ASPHALT CONCRETE BINDER COURSE (LEVEL 2)
- \* ③ CLASS II BASE COURSE (12" THICK)
- ④ GEOTEXTILE FABRIC
- ⑤ REQUIRED PAVEMENT STRIPING
- \*\* ⑥ EXCAVATION AND EMBANKMENT
- ⑦ LIMITS OF HYDRO-SEEDING
- ⑧ ASPHALT SHOULDER WEDGE
- ⑨ 4" PIN-ON CONCRETE MOUNTABLE CURB
- △ ⑩ INCIDENTAL CONCRETE (COLORED)(6" MINIMUM)
- ⑪ EXISTING ASPHALT TO BE MILLED TO 2" AVERAGE DEPTH

- NOTES:**
- \* CLASS II BASE COURSE SHALL BE A TOTAL OF 12" THICK COMPRISING OF EITHER:  
A) 12" CRUSHED STONE  
B) 12" RECYCLED PORTLAND CEMENT CONCRETE PAVEMENT (PCCP)  
C) 6" ASPHALT CONCRETE BASE ON 6" EMBANKMENT LAYER
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  - ② 8" ASPHALT CONCRETE BINDER COURSE IS TO BE LAID IN 3 LIFTS.
  - ALL ASPHALT ALONG HWY. 1077 WITHIN PROJECT LIMITS TO BE MILLED TO A 2" DEPTH.
  - △ CONSTRUCTION REQUIREMENTS FOR TINTED AND TEXTURED CONCRETE ON SPLITTER ISLANDS SHALL BE CLASS (M) CONCRETE IN ACCORDANCE WITH SECTION 706 EXCEPT AS NOTED IN THE FOLLOWING SUBSECTION:  
(A) COLOR: SHALL BE BRICK RED.



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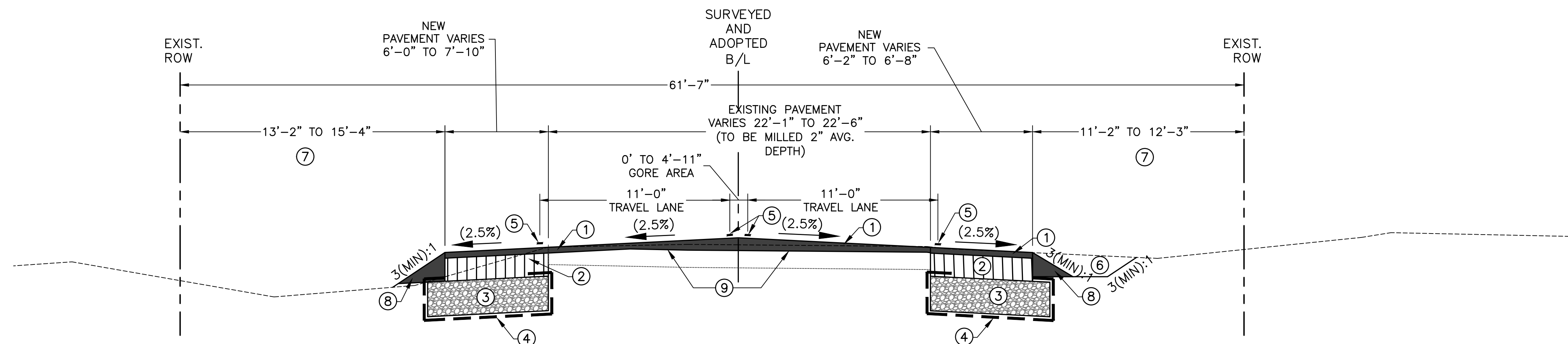
**TYPICAL SECTIONS**  
LA 1077/LA 21 CONNECTOR ROAD

Project Number:  
RCLC No: 714-08



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**TYPICAL REQUIRED ROADWAY SECTION**  
**LA HWY. 1077**  
**STA. 61+23.25 TO 62+25.48**  
(LOOKING UP STATION)

**LEGEND**

- ① 2" ASPHALT CONCRETE WEARING COURSE (LEVEL 2F)
- ② 8" ASPHALT CONCRETE BINDER COURSE (LEVEL 2)
- \* ③ CLASS II BASE COURSE (12" THICK)
- ④ GEOTEXTILE FABRIC
- ⑤ REQUIRED PAVEMENT STRIPING
- \*\* ⑥ EXCAVATION AND EMBANKMENT
- ⑦ LIMITS OF HYDRO-SEEDING
- ⑧ ASPHALT SHOULDER WEDGE
- ⑨ EXISTING ASPHALT TO BE MILLED TO 2" AVERAGE DEPTH

**NOTES:**

- \* CLASS II BASE COURSE SHALL BE A TOTAL OF 12" THICK COMPRISING OF EITHER:
  - A) 12" CRUSHED STONE
  - B) 12" RECYCLED PORTLAND CEMENT CONCRETE PAVEMENT (PCCP)
  - C) 6" ASPHALT CONCRETE BASE ON 6" EMBANKMENT LAYER
- ASPHALT CONCRETE BASE SHALL BE AS DEFINED IN SECTION 302 OF THE LOUISIANA STANDARD SPECIFICATIONS FOR ROADS AND BRIDGES, 2016 EDITION. GEOTEXTILE FABRIC SHALL BE PLACED UNDER AGGREGATE BASE.
- \*\* PLASTIC EMBANKMENT SHALL BE USED FOR FILLING AREAS OUTSIDE PAVING LIMITS. PLASTIC EMBANKMENT SHALL BE IN ACCORDANCE WITH SECTION 203 OF THE 2016 EDITION OF THE LOUISIANA DOTD STANDARD SPECIFICATIONS FOR ROADS AND BRIDGES AND SUBJECT TO APPROVAL OF THE PROJECT ENGINEER. NON-PLASTIC EMBANKMENT SHALL BE USED TO FILL AREAS UNDER CLASS II BASE COURSE AND 12" STRUCTURAL FILL UNDER CONCRETE PAVEMENT.
- ② 8" ASPHALT CONCRETE BINDER COURSE IS TO BE LAID IN 3 LIFTS.
- ALL ASPHALT ALONG HWY. 1077 WITHIN PROJECT LIMITS TO BE MILLED TO A 2" DEPTH.



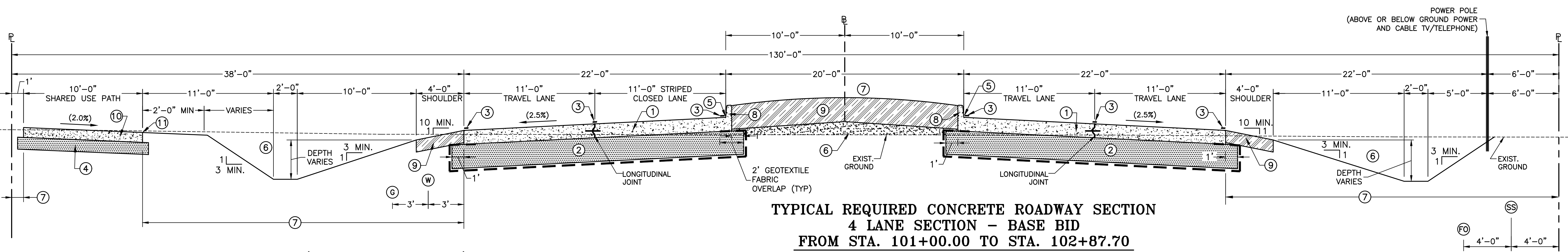
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**TYPICAL SECTIONS**  
LA 1077/LA 21 CONNECTOR ROAD

Project Number:  
RCLC No 714-08



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Sheet Number:



**TYPICAL REQUIRED CONCRETE ROADWAY SECTION**  
**4 LANE SECTION - BASE BID**  
**FROM STA. 101+00.00 TO STA. 102+87.70**  
(LOOKING UP STATION)

**BASE BID (CONCRETE ROADWAY) LEGEND**

- ① 8" THICK P.C. CONCRETE PAVEMENT
- \* ② 12" THICK (MIN.) STRUCTURAL FILL MATERIAL WITH GEOTEXTILE FABRIC
- ③ REQUIRED PAVEMENT STRIPING
- ④ 6" THICK (MIN.) STRUCTURAL FILL MATERIAL
- ⑤ ROADWAY PROFILE GRADE LINE AS SHOWN ON PROFILE AND STATION AND OFFSET LOCATIONS AS SHOWN ON GEOMETRIC PLANS
- ▲ ⑥ EXCAVATION AND EMBANKMENT
- ⑦ LIMITS OF HYDRO-SEEDING
- ⑧ 6" CONCRETE BARRIER CURB
- \*\* ⑨ EMBANKMENT (PLASTIC SOIL BLANKET). SUITABLE PLASTIC MATERIAL MAY BE OBTAINED FROM EXCAVATION WITH A MAXIMUM LIQUID LIMIT OF 70% AND SUBJECT TO APPROVAL BY THE PROJECT ENGINEER OR PLASTIC EMBANKMENT MATERIAL PROVIDED BY THE CONTRACTOR
- ⑩ 5" THICK CONCRETE PAVEMENT (SHARED USE PATH)
- ⑪ SHARED USE PATH (SUP) PROFILE GRADE LINE
- W PROPOSED WATER LOCATION (BY OTHERS)(NIC)
- G PROPOSED GAS LOCATION (BY OTHERS)(NIC)
- FO PROPOSED FIBER OPTIC LOCATION (BY OTHERS)(NIC)
- SS PROPOSED SANITARY SEWER LOCATION (BY OTHERS)(NIC)

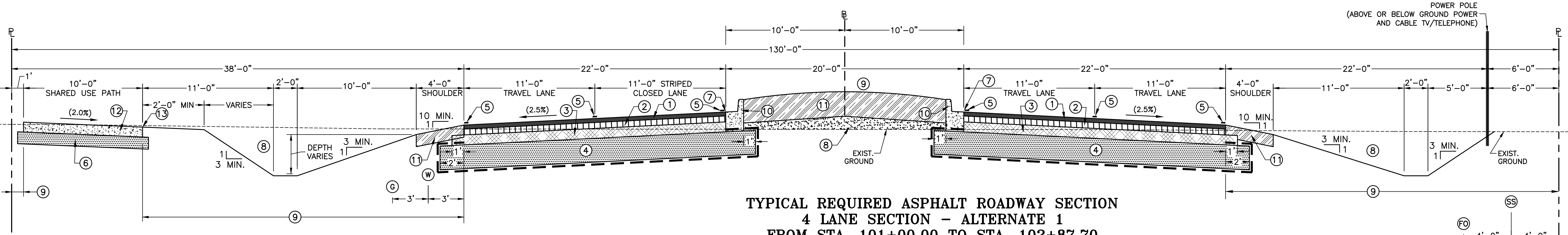
\* THE STRUCTURAL FILL MATERIAL SHALL CONSIST OF SANDS (SP, SW) CLAYEY SANDS (SC) OR SILTY SANDS (SM) WITH AT LEAST 75 PERCENT PASSING THE No. 4 SIEVE AND CONTAINING NOT MORE THAN 15 PERCENT PASSING THE No. 200 SIEVE. MATERIAL SHALL BE COMPACTED TO 95 PERCENT OF THE MAXIMUM DRY DENSITY AS DETERMINED BY ASTM D698 AT MOISTURE CONTENT BETWEEN ONE (1) PERCENT BELOW AND THREE (3) PERCENT ABOVE THE OPTIMUM MOISTURE CONTENT.

\*\* IF SUITABLE PLASTIC MATERIAL IS NOT AVAILABLE FROM PROJECT SITE, CONTRACTOR SHALL PROVIDE PLASTIC EMBANKMENT MATERIAL AT HIS COST. SEE SECTION 203.10 OF THE LADOTD STANDARD SPECIFICATIONS FOR ITEM REQUIREMENTS.

▲ LADOTD TYPE B PAVEMENT WITH REINFORCEMENT (6"x12"x1/4" WWF PLACED 2 INCHES BELOW TOP OF PAVEMENT OR POLYPROPYLENE FIBER AT 1.5#/C.Y. OF CONCRETE CONFORMING TO ASTM C1116, TYPE III).

▲ 5" THICK ASPHALT CONCRETE BASE COURSE SHALL BE IN ACCORDANCE WITH LADOTD SPECIFICATION SECTION 302 (CLASS II BASE COURSE) EXCEPT 5 INCHES OF FULL DEPTH ASPHALT BASE COURSE SHALL BE REQUIRED. THERE SHALL BE NO EMBANKMENT LAYER WITHIN THIS 5 INCH THICKNESS.

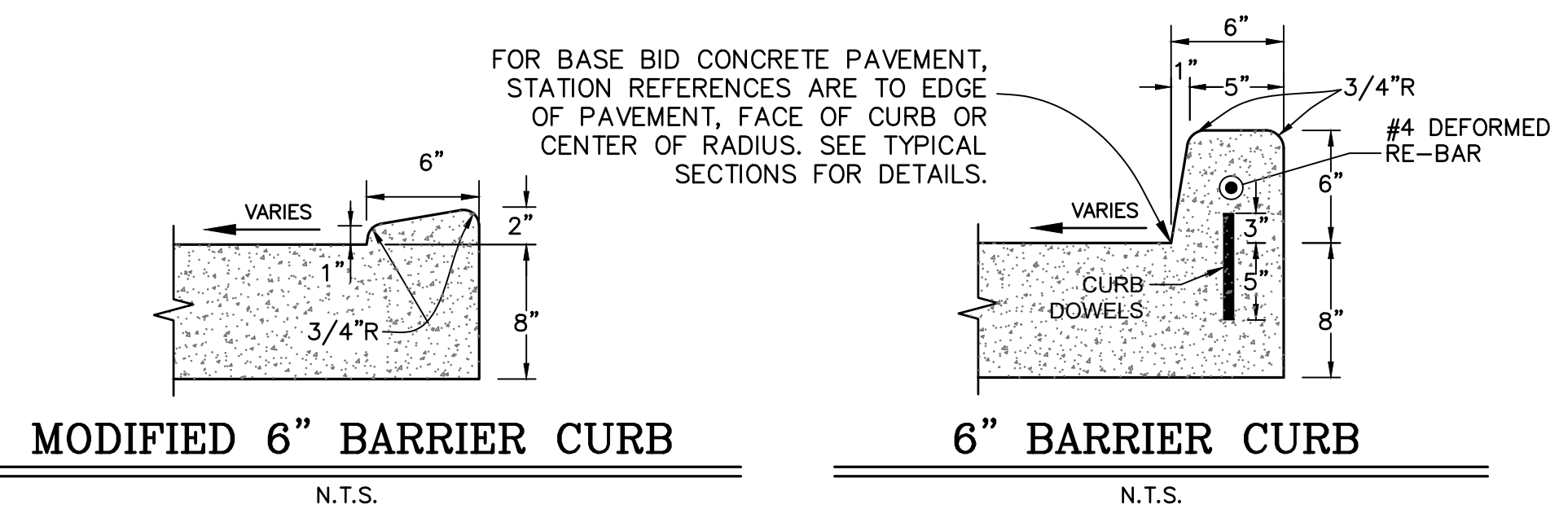
▲ CONTRACTOR IS RESPONSIBLE FOR CALCULATING EXCAVATION AND EMBANKMENT QUANTITIES NECESSARY TO MEET FINAL GRADES. THIS INCLUDES ALL FILL REQUIRED TO GET FROM EXISTING GROUND (OR TOP OF REPLACED UNSUITABLE SUBGRADE MATERIAL) TO BOTTOM OF STRUCTURAL FILL SECTIONS FOR ROADWAY AND SHARED USE PATH. SEE CROSS SECTION SHEETS FOR LOCATIONS WHERE THIS OCCURS. THERE SHALL BE NO ADJUSTMENT IN CONTRACTOR'S LUMP SUM BID FOR EXCAVATION AND EMBANKMENT. QUANTITIES SHOWN ON SHEET 3a ARE FOR INFORMATIONAL PURPOSES ONLY.



**TYPICAL REQUIRED ASPHALT ROADWAY SECTION**  
**4 LANE SECTION - ALTERNATE 1**  
**FROM STA. 101+00.00 TO STA. 102+87.70**  
(LOOKING UP STATION)

**ALTERNATE 1 (ASPHALT ROADWAY) LEGEND**

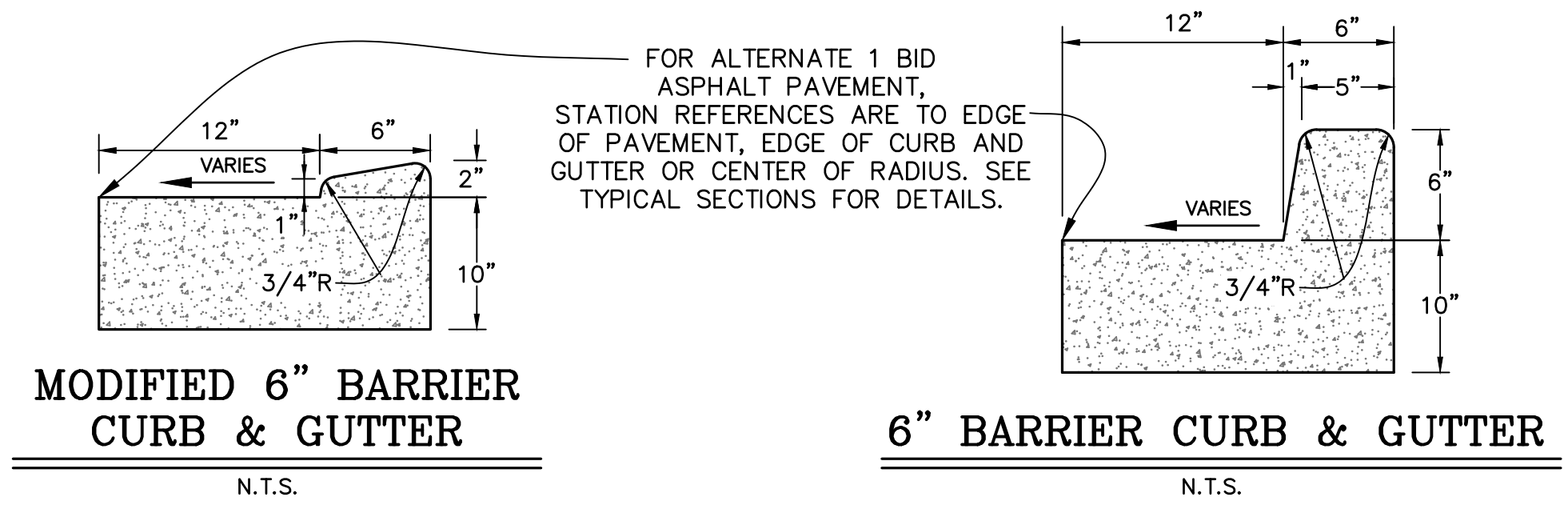
- ① 2" ASPHALT CONCRETE WEARING COURSE (LEVEL 1)
- ② 3" ASPHALT CONCRETE BINDER COURSE (LEVEL 1)
- ▲ ③ 5" ASPHALT BASE COURSE (LEVEL 1)(FULL DEPTH)
- \* ④ 12" THICK (MIN.) STRUCTURAL FILL MATERIAL WITH GEOTEXTILE FABRIC
- ⑤ REQUIRED PAVEMENT STRIPING
- ⑥ 6" THICK (MIN.) STRUCTURAL FILL MATERIAL
- ⑦ ROADWAY PROFILE GRADE LINE AS SHOWN ON PROFILE AND STATION AND OFFSET LOCATIONS AS SHOWN ON GEOMETRIC PLANS
- ▲ ⑧ EXCAVATION AND EMBANKMENT
- ⑨ LIMITS OF HYDRO-SEEDING
- ⑩ 6" CONCRETE BARRIER CURB AND GUTTER
- \*\* ⑪ EMBANKMENT (PLASTIC SOIL BLANKET). SUITABLE PLASTIC MATERIAL MAY BE OBTAINED FROM EXCAVATION WITH A MAXIMUM LIQUID LIMIT OF 70% AND SUBJECT TO APPROVAL BY THE PROJECT ENGINEER OR PLASTIC EMBANKMENT MATERIAL PROVIDED BY THE CONTRACTOR
- ⑫ 5" THICK CONCRETE PAVEMENT (SHARED USE PATH)
- ⑬ SHARED USE PATH (SUP) PROFILE GRADE LINE
- W PROPOSED WATER LOCATION (BY OTHERS)(NIC)
- G PROPOSED GAS LOCATION (BY OTHERS)(NIC)
- FO PROPOSED FIBER OPTIC LOCATION (BY OTHERS)(NIC)
- SS PROPOSED SANITARY SEWER LOCATION (BY OTHERS)(NIC)



**MODIFIED 6" BARRIER CURB**  
N.T.S.

**6" BARRIER CURB**  
N.T.S.

**BASE BID CURB DETAILS**



**MODIFIED 6" BARRIER CURB & GUTTER**  
N.T.S.

**6" BARRIER CURB & GUTTER**  
N.T.S.

**ALTERNATE 1 CURB DETAILS**

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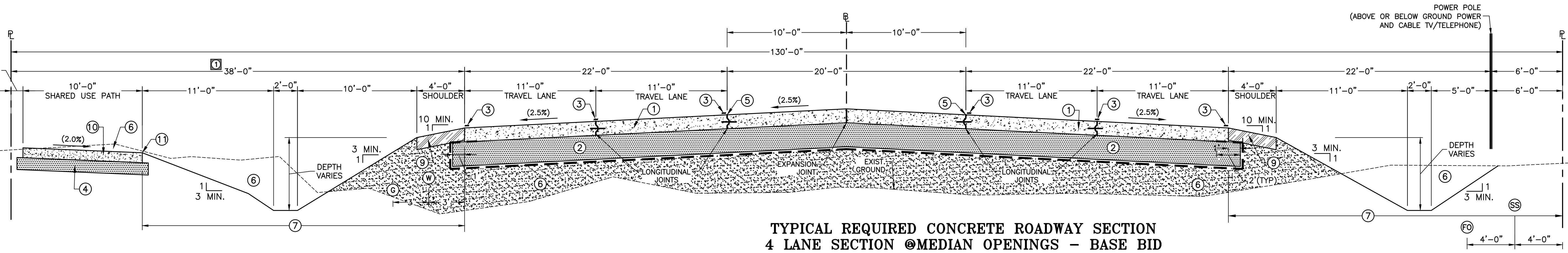
**TYPICAL SECTIONS**  
LA 1077/LA 21 CONNECTOR ROAD

Project Number:  
RCLC No 714-08



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Sheet Number:

**2g**



**TYPICAL REQUIRED CONCRETE ROADWAY SECTION  
4 LANE SECTION @MEDIAN OPENINGS - BASE BID**  
FROM STA. 102+87.65 TO STA. 102+99.43  
STA. 114+95.52 TO STA. 115+69.52  
STA. 138+29.95 TO STA. 139+03.95  
STA. 159+35.53 TO STA. 160+09.54  
STA. 174+35.53 TO STA. 175+09.54  
AND STA. 189+35.54 TO STA. 190+09.54  
(LOOKING UP STATION)

**BASE BID (CONCRETE ROADWAY) LEGEND**

- ① 8" THICK P.C. CONCRETE PAVEMENT
- \* ② 12" THICK (MIN.) STRUCTURAL FILL MATERIAL WITH GEOTEXTILE FABRIC
- ③ REQUIRED PAVEMENT STRIPING
- ④ 6" THICK (MIN.) STRUCTURAL FILL MATERIAL
- ⑤ ROADWAY PROFILE GRADE LINE AS SHOWN ON PROFILE AND STATION AND OFFSET LOCATIONS AS SHOWN ON GEOMETRIC PLANS
- ▲ ⑥ EXCAVATION AND EMBANKMENT
- ⑦ LIMITS OF HYDRO-SEEDING
- ⑧ 6" CONCRETE BARRIER CURB
- \*\* ⑨ EMBANKMENT (PLASTIC SOIL BLANKET). SUITABLE PLASTIC MATERIAL MAY BE OBTAINED FROM EXCAVATION WITH A MAXIMUM LIQUID LIMIT OF 70% AND SUBJECT TO APPROVAL BY THE PROJECT ENGINEER OR PLASTIC EMBANKMENT MATERIAL PROVIDED BY THE CONTRACTOR
- ⑩ 5" THICK CONCRETE PAVEMENT (SHARED USE PATH)
- ⑪ SHARED USE PATH (SUP) PROFILE GRADE LINE
- W PROPOSED WATER LOCATION (BY OTHERS)(NIC)
- G PROPOSED GAS LOCATION (BY OTHERS)(NIC)
- FO PROPOSED FIBER OPTIC LOCATION (BY OTHERS)(NIC)
- SS PROPOSED SANITARY SEWER LOCATION (BY OTHERS)(NIC)

\* THE STRUCTURAL FILL MATERIAL SHALL CONSIST OF SANDS (SP, SW) CLAYEY SANDS (SC) OR SILTY SANDS (SM) WITH AT LEAST 75 PERCENT PASSING THE No. 4 SIEVE AND CONTAINING NOT MORE THAN 15 PERCENT PASSING THE No. 200 SIEVE. MATERIAL SHALL BE COMPACTED TO 95 PERCENT OF THE MAXIMUM DRY DENSITY AS DETERMINED BY ASTM D698 AT MOISTURE CONTENT BETWEEN ONE (1) PERCENT BELOW AND THREE (3) PERCENT ABOVE THE OPTIMUM MOISTURE CONTENT.

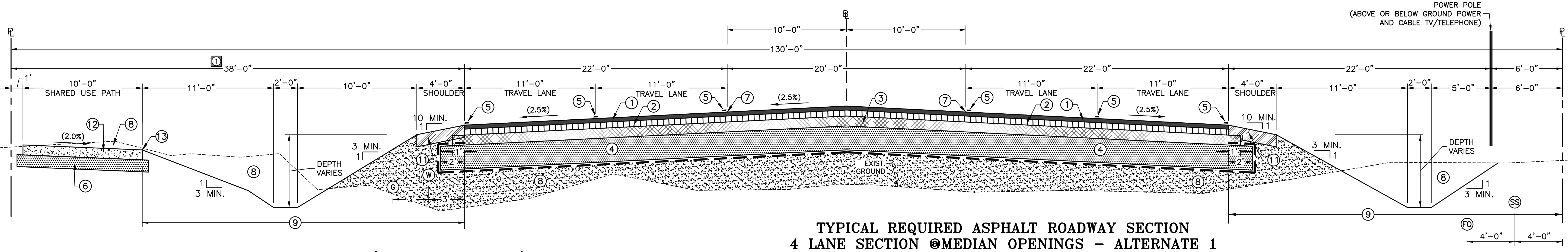
\*\* IF SUITABLE PLASTIC MATERIAL IS NOT AVAILABLE FROM PROJECT SITE, CONTRACTOR SHALL PROVIDE PLASTIC EMBANKMENT MATERIAL AT HIS COST. SEE SECTION 203.10 OF THE LADOTD STANDARD SPECIFICATIONS FOR ITEM REQUIREMENTS.

△ LADOTD TYPE B PAVEMENT WITH REINFORCEMENT (6"x12"x8" WWF PLACED 2 INCHES BELOW TOP OF PAVEMENT OR POLYPROPYLENE FIBER AT 1.5#/C.Y. OF CONCRETE CONFORMING TO ASTM C1116, TYPE III).

△△ 5" THICK ASPHALT CONCRETE BASE COURSE SHALL BE IN ACCORDANCE WITH LADOTD SPECIFICATION SECTION 302 (CLASS II BASE COURSE) EXCEPT 5 INCHES OF FULL DEPTH ASPHALT BASE COURSE SHALL BE REQUIRED. THERE SHALL BE NO EMBANKMENT LAYER WITHIN THIS 5 INCH THICKNESS.

▲ CONTRACTOR IS RESPONSIBLE FOR CALCULATING EXCAVATION AND EMBANKMENT QUANTITIES NECESSARY TO MEET FINAL GRADES. THIS INCLUDES ALL FILL REQUIRED TO GET FROM EXISTING GROUND (OR TOP OF REPLACED UNSUITABLE SUBGRADE MATERIAL) TO BOTTOM OF STRUCTURAL FILL SECTIONS FOR ROADWAY AND SHARED USE PATH. SEE CROSS SECTION SHEETS FOR LOCATIONS WHERE THIS OCCURS. THERE SHALL BE NO ADJUSTMENT IN CONTRACTOR'S LUMP SUM BID FOR EXCAVATION AND EMBANKMENT. QUANTITIES SHOWN ON SHEET 3a ARE FOR INFORMATIONAL PURPOSES ONLY.

① SEE SHEET 2k FOR (STA. 151+26.47 TO STA. 177+84.31) SECTION DETAILS BETWEEN THE NORTHERN EDGE OF PAVEMENT AND SHADY LAKES PROPERTY LINE.



**TYPICAL REQUIRED ASPHALT ROADWAY SECTION  
4 LANE SECTION @MEDIAN OPENINGS - ALTERNATE 1**  
FROM STA. 102+87.65 TO STA. 102+99.43  
STA. 114+95.52 TO STA. 115+69.52  
STA. 138+29.95 TO STA. 139+03.95  
STA. 159+35.53 TO STA. 160+09.54  
STA. 174+35.53 TO STA. 175+09.54  
AND STA. 189+35.54 TO STA. 190+09.54  
(LOOKING UP STATION)

**ALTERNATE 1 (ASPHALT ROADWAY) LEGEND**

- ① 2" ASPHALT CONCRETE WEARING COURSE (LEVEL 1)
- ② 3" ASPHALT CONCRETE BINDER COURSE (LEVEL 1)
- △△ ③ 5" ASPHALT BASE COURSE (LEVEL 1)(FULL DEPTH)
- \* ④ 12" THICK (MIN.) STRUCTURAL FILL MATERIAL WITH GEOTEXTILE FABRIC
- ⑤ REQUIRED PAVEMENT STRIPING
- ⑥ 6" THICK (MIN.) STRUCTURAL FILL MATERIAL
- ⑦ ROADWAY PROFILE GRADE LINE AS SHOWN ON PROFILE AND STATION AND OFFSET LOCATIONS AS SHOWN ON GEOMETRIC PLANS
- ▲ ⑧ EXCAVATION AND EMBANKMENT
- ⑨ LIMITS OF HYDRO-SEEDING
- ⑩ 6" CONCRETE BARRIER CURB AND GUTTER
- \*\* ⑪ EMBANKMENT (PLASTIC SOIL BLANKET). SUITABLE PLASTIC MATERIAL MAY BE OBTAINED FROM EXCAVATION WITH A MAXIMUM LIQUID LIMIT OF 70% AND SUBJECT TO APPROVAL BY THE PROJECT ENGINEER OR PLASTIC EMBANKMENT MATERIAL PROVIDED BY THE CONTRACTOR
- ⑫ 5" THICK CONCRETE PAVEMENT (SHARED USE PATH)
- ⑬ SHARED USE PATH (SUP) PROFILE GRADE LINE
- W PROPOSED WATER LOCATION (BY OTHERS)(NIC)
- G PROPOSED GAS LOCATION (BY OTHERS)(NIC)
- FO PROPOSED FIBER OPTIC LOCATION (BY OTHERS)(NIC)
- SS PROPOSED SANITARY SEWER LOCATION (BY OTHERS)(NIC)

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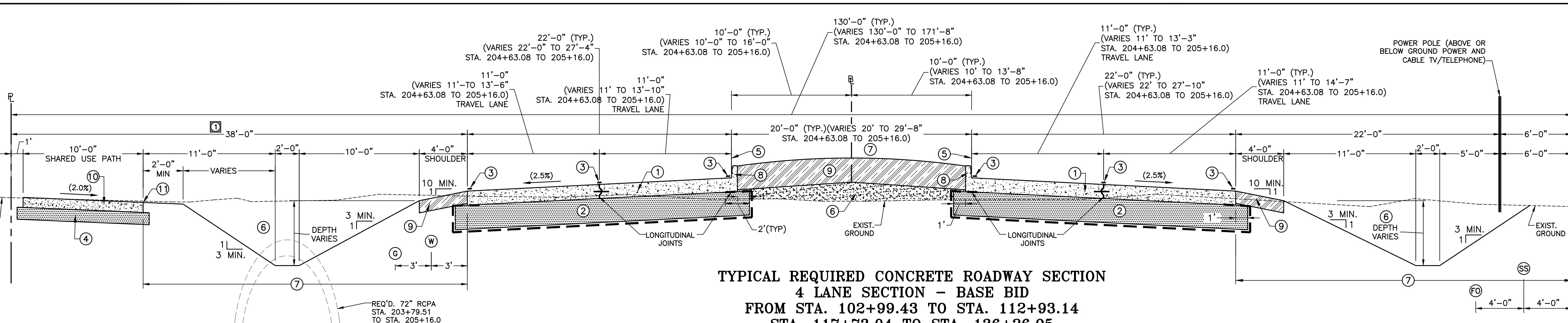
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**TYPICAL SECTIONS**  
LA 1077/LA 21 CONNECTOR ROAD

Project Number:  
RCLC No: 714-08



01/27/2021  
Sheet Number:  
**2h**



**TYPICAL REQUIRED CONCRETE ROADWAY SECTION**  
**4 LANE SECTION - BASE BID**  
FROM STA. 102+99.43 TO STA. 112+93.14  
STA. 117+73.04 TO STA. 136+26.95  
STA. 141+06.95 TO STA. 157+32.54 (1)  
STA. 162+12.54 TO STA. 172+32.54 (1)  
STA. 177+12.54 TO STA. 187+32.54 (1)  
AND STA. 192+12.54 TO STA. 205+16.00  
(LOOKING UP STATION)

**BASE BID (CONCRETE ROADWAY) LEGEND**

- |   |  |
|---|--|
| △ (1) 8" THICK P.C. CONCRETE PAVEMENT   | (8) 6" CONCRETE BARRIER CURB   |
| * (2) 12" THICK (MIN.) STRUCTURAL FILL MATERIAL WITH GEOTEXTILE FABRIC  | ** (9) EMBANKMENT (PLASTIC SOIL BLANKET). SUITABLE PLASTIC MATERIAL MAY BE OBTAINED FROM EXCAVATION WITH A MAXIMUM LIQUID LIMIT OF 70% AND SUBJECT TO APPROVAL BY THE PROJECT ENGINEER OR PLASTIC EMBANKMENT MATERIAL PROVIDED BY THE CONTRACTOR |
| (3) REQUIRED PAVEMENT STRIPING  | (10) 5" THICK CONCRETE PAVEMENT (SHARED USE PATH)  |
| (4) 6" THICK (MIN.) STRUCTURAL FILL MATERIAL  | (11) SHARED USE PATH (SUP) PROFILE GRADE LINE  |
| (5) ROADWAY PROFILE GRADE LINE AS SHOWN ON PROFILE AND STATION AND OFFSET LOCATIONS AS SHOWN ON GEOMETRIC PLANS | (W) PROPOSED WATER LOCATION (BY OTHERS)(NIC)   |
| ▲ (6) EXCAVATION AND EMBANKMENT   | (FO) PROPOSED FIBER OPTIC LOCATION (BY OTHERS)(NIC)  |
| (7) LIMITS OF HYDRO-SEEDING   | (G) PROPOSED GAS LOCATION (BY OTHERS)(NIC)   |
|   | (SS) PROPOSED SANITARY SEWER LOCATION (BY OTHERS)(NIC)   |

\* THE STRUCTURAL FILL MATERIAL SHALL CONSIST OF SANDS (SP, SW) CLAYEY SANDS (SC) OR SILTY SANDS (SM) WITH AT LEAST 75 PERCENT PASSING THE No. 4 SIEVE AND CONTAINING NOT MORE THAN 15 PERCENT PASSING THE No. 200 SIEVE. MATERIAL SHALL BE COMPACTED TO 95 PERCENT OF THE MAXIMUM DRY DENSITY AS DETERMINED BY ASTM D698 AT MOISTURE CONTENT BETWEEN ONE (1) PERCENT BELOW AND THREE (3) PERCENT ABOVE THE OPTIMUM MOISTURE CONTENT.

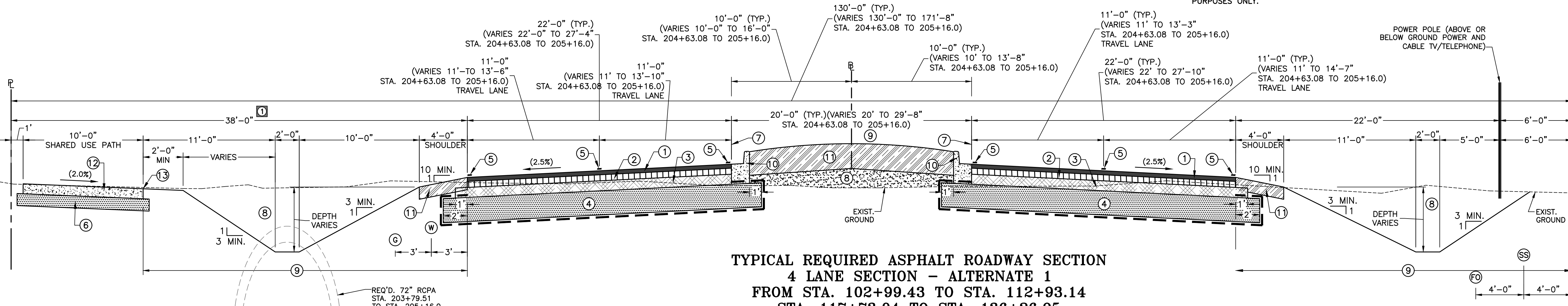
\*\* IF SUITABLE PLASTIC MATERIAL IS NOT AVAILABLE FROM PROJECT SITE, CONTRACTOR SHALL PROVIDE PLASTIC EMBANKMENT MATERIAL AT HIS COST. SEE SECTION 203.10 OF THE LADOTD STANDARD SPECIFICATIONS FOR ITEM REQUIREMENTS.

△ LADOTD TYPE B PAVEMENT WITH REINFORCEMENT (6"x12"x4" WWF PLACED 2 INCHES BELOW TOP OF PAVEMENT OR POLYPROPYLENE FIBER AT 1.5#/C.Y. OF CONCRETE CONFORMING TO ASTM C1116, TYPE III).

△△ 5" THICK ASPHALT CONCRETE BASE COURSE SHALL BE IN ACCORDANCE WITH LADOTD SPECIFICATION SECTION 302 (CLASS II BASE COURSE) EXCEPT 5 INCHES OF FULL DEPTH ASPHALT BASE COURSE SHALL BE REQUIRED. THERE SHALL BE NO EMBANKMENT LAYER WITHIN THIS 5 INCH THICKNESS.

▲ CONTRACTOR IS RESPONSIBLE FOR CALCULATING EXCAVATION AND EMBANKMENT QUANTITIES NECESSARY TO MEET FINAL GRADES. THIS INCLUDES ALL FILL REQUIRED TO GET FROM EXISTING GROUND (OR TOP OF REPLACED UNSUITABLE SUBGRADE MATERIAL) TO BOTTOM OF STRUCTURAL FILL SECTIONS FOR ROADWAY AND SHARED USE PATH. SEE CROSS SECTION SHEETS FOR LOCATIONS WHERE THIS OCCURS. THERE SHALL BE NO ADJUSTMENT IN CONTRACTOR'S LUMP SUM BID FOR EXCAVATION AND EMBANKMENT. QUANTITIES SHOWN ON SHEET 3a ARE FOR INFORMATIONAL PURPOSES ONLY.

(1) SEE SHEET 2k FOR (STA. 151+26.47 TO STA. 177+84.31) SECTION DETAILS BETWEEN THE NORTHERN EDGE OF PAVEMENT AND SHADY LAKES PROPERTY LINE.



**TYPICAL REQUIRED ASPHALT ROADWAY SECTION**  
**4 LANE SECTION - ALTERNATE 1**  
FROM STA. 102+99.43 TO STA. 112+93.14  
STA. 117+73.04 TO STA. 136+26.95 (1)  
STA. 141+06.95 TO STA. 157+32.54 (1)  
STA. 162+12.54 TO STA. 172+32.54 (1)  
STA. 177+12.54 TO STA. 187+32.54 (1)  
AND STA. 192+12.54 TO STA. 205+16.00  
(LOOKING UP STATION)

**ALTERNATE 1 (ASPHALT ROADWAY) LEGEND**

- |   |   |
|---|---|
| (1) 2" ASPHALT CONCRETE WEARING COURSE (LEVEL 1)  | (10) 6" CONCRETE BARRIER CURB AND GUTTER  |
| (2) 3" ASPHALT CONCRETE BINDER COURSE (LEVEL 1)   | ** (11) EMBANKMENT (PLASTIC SOIL BLANKET). SUITABLE PLASTIC MATERIAL MAY BE OBTAINED FROM EXCAVATION WITH A MAXIMUM LIQUID LIMIT OF 70% AND SUBJECT TO APPROVAL BY THE PROJECT ENGINEER OR PLASTIC EMBANKMENT MATERIAL PROVIDED BY THE CONTRACTOR |
| △△ (3) 5" ASPHALT BASE COURSE (LEVEL 1)(FULL DEPTH)   | (12) 5" THICK CONCRETE PAVEMENT (SHARED USE PATH)   |
| * (4) 12" THICK (MIN.) STRUCTURAL FILL MATERIAL WITH GEOTEXTILE FABRIC  | (13) SHARED USE PATH (SUP) PROFILE GRADE LINE   |
| (5) REQUIRED PAVEMENT STRIPING  | (W) PROPOSED WATER LOCATION (BY OTHERS)(NIC)  |
| (6) 6" THICK (MIN.) STRUCTURAL FILL MATERIAL  | (FO) PROPOSED FIBER OPTIC LOCATION (BY OTHERS)(NIC)   |
| (7) ROADWAY PROFILE GRADE LINE AS SHOWN ON PROFILE AND STATION AND OFFSET LOCATIONS AS SHOWN ON GEOMETRIC PLANS | (G) PROPOSED GAS LOCATION (BY OTHERS)(NIC)  |
| ▲ (8) EXCAVATION AND EMBANKMENT   | (SS) PROPOSED SANITARY SEWER LOCATION (BY OTHERS)(NIC)  |
| (9) LIMITS OF HYDRO-SEEDING   |   |







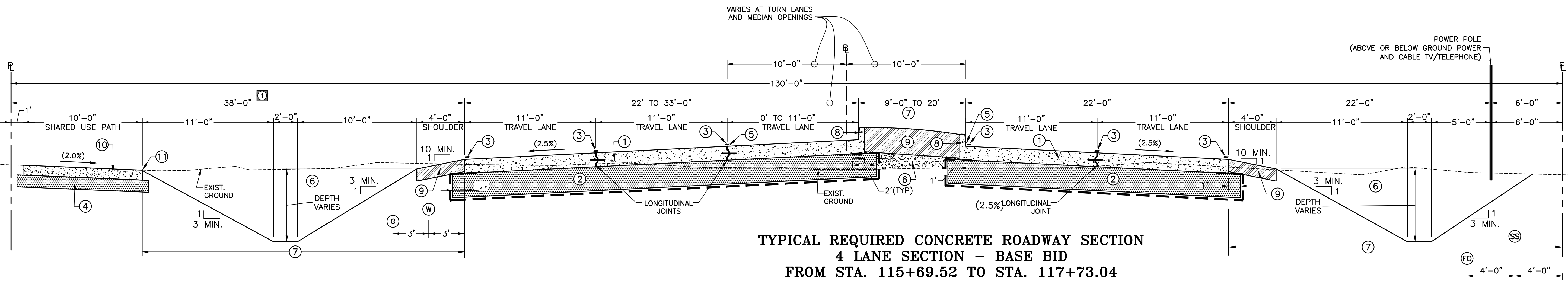
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REVISION DESCRIPTION				

**TYPICAL SECTIONS**  
LA 1077/LA 21 CONNECTOR ROAD

Project Number:  
RCLC No: 714-08



04/29/2021  
Sheet Number:  
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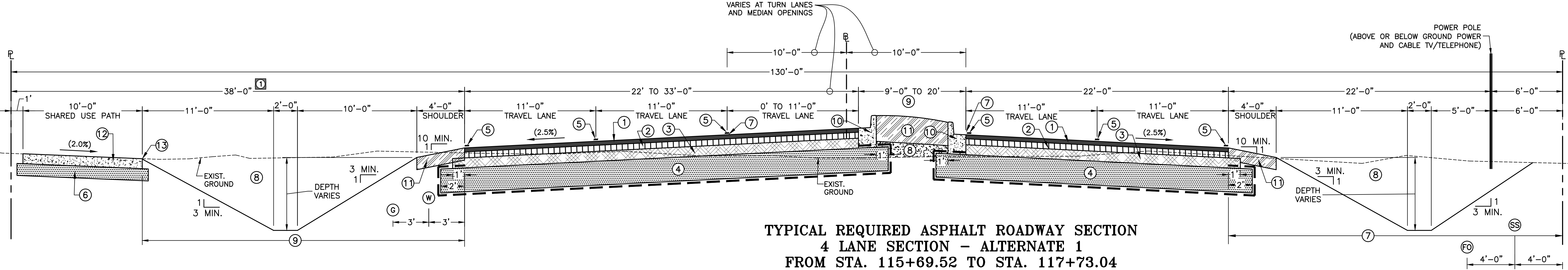


**TYPICAL REQUIRED CONCRETE ROADWAY SECTION**  
**4 LANE SECTION - BASE BID**  
FROM STA. 115+69.52 TO STA. 117+73.04  
STA. 139+03.95 TO STA. 141+06.95  
STA. 160+09.54 TO STA. 162+12.54  
STA. 175+09.54 TO STA. 177+12.54  
AND STA. 190+09.54 TO STA. 192+12.54  
(LOOKING UP STATION)

- \* THE STRUCTURAL FILL MATERIAL SHALL CONSIST OF SANDS (SP, SW) CLAYEY SANDS (SC) OR SILTY SANDS (SM) WITH AT LEAST 75 PERCENT PASSING THE No. 4 SIEVE AND CONTAINING NOT MORE THAN 15 PERCENT PASSING THE No. 200 SIEVE. MATERIAL SHALL BE COMPACTED TO 95 PERCENT OF THE MAXIMUM DRY DENSITY AS DETERMINED BY ASTM D698 AT MOISTURE CONTENT BETWEEN ONE (1) PERCENT BELOW AND THREE (3) PERCENT ABOVE THE OPTIMUM MOISTURE CONTENT.
- \*\* IF SUITABLE PLASTIC MATERIAL IS NOT AVAILABLE FROM PROJECT SITE, CONTRACTOR SHALL PROVIDE PLASTIC EMBANKMENT MATERIAL AT HIS COST. SEE SECTION 203.10 OF THE LADOTD STANDARD SPECIFICATIONS FOR ITEM REQUIREMENTS.
- △ LADOTD TYPE B PAVEMENT WITH REINFORCEMENT (6"x12"x4" WWF PLACED 2 INCHES BELOW TOP OF PAVEMENT OR POLYPROPYLENE FIBER AT 1.5#/C.Y. OF CONCRETE CONFORMING TO ASTM C1116, TYPE III).
- △△ 5' THICK ASPHALT CONCRETE BASE COURSE SHALL BE IN ACCORDANCE WITH LADOTD SPECIFICATION SECTION 302 (CLASS II BASE COURSE) EXCEPT 5 INCHES OF FULL DEPTH ASPHALT BASE COURSE SHALL BE REQUIRED. THERE SHALL BE NO EMBANKMENT LAYER WITHIN THIS 5 INCH THICKNESS.
- ▲ CONTRACTOR IS RESPONSIBLE FOR CALCULATING EXCAVATION AND EMBANKMENT QUANTITIES NECESSARY TO MEET FINAL GRADES. THIS INCLUDES ALL FILL REQUIRED TO GET FROM EXISTING GROUND (OR TOP OF REPLACED UNSUITABLE SUBGRADE MATERIAL) TO BOTTOM OF STRUCTURAL FILL SECTIONS FOR ROADWAY AND SHARED USE PATH. SEE CROSS SECTION SHEETS FOR LOCATIONS WHERE THIS OCCURS. THERE SHALL BE NO ADJUSTMENT IN CONTRACTOR'S LUMP SUM BID FOR EXCAVATION AND EMBANKMENT. QUANTITIES SHOWN ON SHEET 3a ARE FOR INFORMATIONAL PURPOSES ONLY.

- BASE BID (CONCRETE ROADWAY) LEGEND**
- △ ① 8" THICK P.C. CONCRETE PAVEMENT
  - \* ② 12" THICK (MIN.) STRUCTURAL FILL MATERIAL WITH GEOTEXTILE FABRIC
  - ③ REQUIRED PAVEMENT STRIPING
  - ④ 6" THICK (MIN.) STRUCTURAL FILL MATERIAL
  - ⑤ ROADWAY PROFILE GRADE LINE AS SHOWN ON PROFILE AND STATION AND OFFSET LOCATIONS AS SHOWN ON GEOMETRIC PLANS
  - ▲ ⑥ EXCAVATION AND EMBANKMENT
  - ⑦ LIMITS OF HYDRO-SEEDING
  - ⑧ 6" CONCRETE BARRIER CURB
  - \*\* ⑨ EMBANKMENT (PLASTIC SOIL BLANKET). SUITABLE PLASTIC MATERIAL MAY BE OBTAINED FROM EXCAVATION WITH A MAXIMUM LIQUID LIMIT OF 70% AND SUBJECT TO APPROVAL BY THE PROJECT ENGINEER OR PLASTIC EMBANKMENT MATERIAL PROVIDED BY THE CONTRACTOR
  - ⑩ 5" THICK CONCRETE PAVEMENT (SHARED USE PATH)
  - ⑪ SHARED USE PATH (SUP) PROFILE GRADE LINE
  - W PROPOSED WATER LOCATION (BY OTHERS)(NIC)
  - G PROPOSED GAS LOCATION (BY OTHERS)(NIC)
  - FO PROPOSED FIBER OPTIC LOCATION (BY OTHERS)(NIC)
  - SS PROPOSED SANITARY SEWER LOCATION (BY OTHERS)(NIC)

① SEE SHEET 2k FOR (STA. 151+26.47 TO STA. 177+84.31) SECTION DETAILS BETWEEN THE NORTHERN EDGE OF PAVEMENT AND SHADY LAKES PROPERTY LINE.



**TYPICAL REQUIRED ASPHALT ROADWAY SECTION**  
**4 LANE SECTION - ALTERNATE 1**  
FROM STA. 115+69.52 TO STA. 117+73.04  
STA. 139+03.95 TO STA. 141+06.95  
STA. 160+09.54 TO STA. 162+12.54  
STA. 175+09.54 TO STA. 177+12.54  
AND STA. 190+09.54 TO STA. 192+12.54  
(LOOKING UP STATION)

- ALTERNATE 1 (ASPHALT ROADWAY) LEGEND**
- ① 2" ASPHALT CONCRETE WEARING COURSE (LEVEL 1)
  - ② 3" ASPHALT CONCRETE BINDER COURSE (LEVEL 1)
  - △△ ③ 5" ASPHALT BASE COURSE (LEVEL 1)(FULL DEPTH)
  - \* ④ 12" THICK (MIN.) STRUCTURAL FILL MATERIAL WITH GEOTEXTILE FABRIC
  - ⑤ REQUIRED PAVEMENT STRIPING
  - ⑥ 6" THICK (MIN.) STRUCTURAL FILL MATERIAL
  - ⑦ ROADWAY PROFILE GRADE LINE AS SHOWN ON PROFILE AND STATION AND OFFSET LOCATIONS AS SHOWN ON GEOMETRIC PLANS
  - ▲ ⑧ EXCAVATION AND EMBANKMENT
  - ⑨ LIMITS OF HYDRO-SEEDING
  - ⑩ 6" CONCRETE BARRIER CURB AND GUTTER
  - \*\* ⑪ EMBANKMENT (PLASTIC SOIL BLANKET). SUITABLE PLASTIC MATERIAL MAY BE OBTAINED FROM EXCAVATION WITH A MAXIMUM LIQUID LIMIT OF 70% AND SUBJECT TO APPROVAL BY THE PROJECT ENGINEER OR PLASTIC EMBANKMENT MATERIAL PROVIDED BY THE CONTRACTOR
  - ⑫ 5" THICK CONCRETE PAVEMENT (SHARED USE PATH)
  - ⑬ SHARED USE PATH (SUP) PROFILE GRADE LINE
  - W PROPOSED WATER LOCATION (BY OTHERS)(NIC)
  - G PROPOSED GAS LOCATION (BY OTHERS)(NIC)
  - FO PROPOSED FIBER OPTIC LOCATION (BY OTHERS)(NIC)
  - SS PROPOSED SANITARY SEWER LOCATION (BY OTHERS)(NIC)

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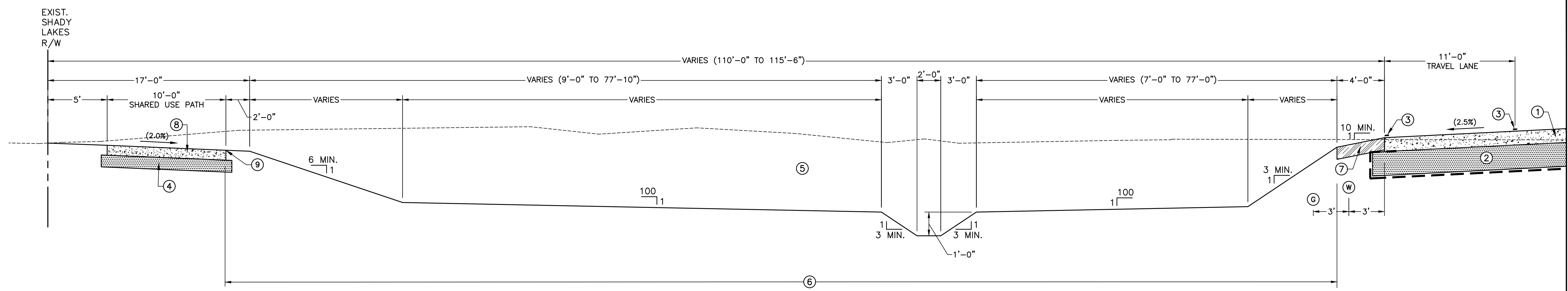
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**TYPICAL SECTIONS**  
LA 1077/LA 21 CONNECTOR ROAD

Project Number:  
RCLC No: 714-08



Sheet Number:  
**2k**



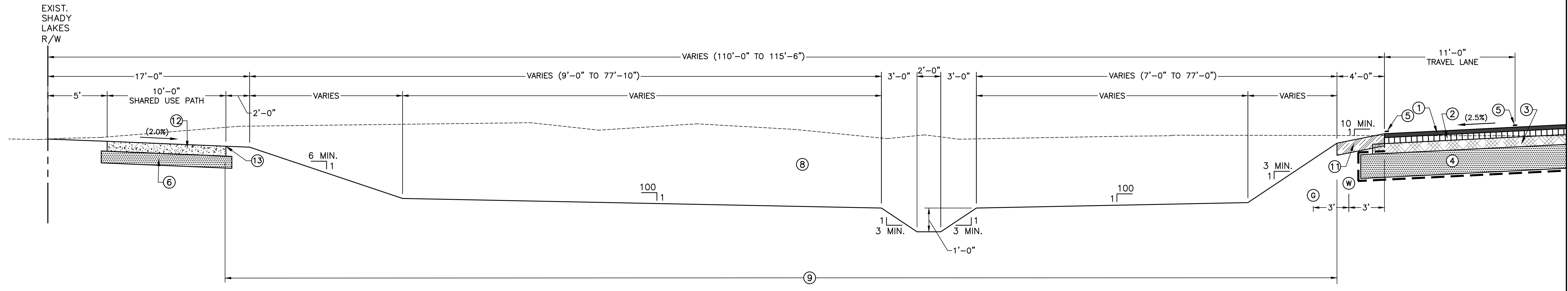
**BASE BID (CONCRETE ROADWAY) LEGEND**

- △ ① 8" THICK P.C. CONCRETE PAVEMENT
- \* ② 12" THICK (MIN.) STRUCTURAL FILL MATERIAL WITH GEOTEXTILE FABRIC
- ③ REQUIRED PAVEMENT STRIPING
- ④ 6" THICK (MIN.) STRUCTURAL FILL MATERIAL
- ▲ ⑤ EXCAVATION AND EMBANKMENT
- ⑥ LIMITS OF HYDRO-SEEDING
- \*\* ⑦ EMBANKMENT (PLASTIC SOIL BLANKET). SUITABLE PLASTIC MATERIAL MAY BE OBTAINED FROM EXCAVATION WITH A MAXIMUM LIQUID LIMIT OF 70% AND SUBJECT TO APPROVAL BY THE PROJECT ENGINEER OR PLASTIC EMBANKMENT MATERIAL PROVIDED BY THE CONTRACTOR
- ⑧ 5" THICK CONCRETE PAVEMENT (SHARED USE PATH)
- Ⓜ PROPOSED WATER LOCATION (BY OTHERS)(NIC)
- Ⓞ PROPOSED GAS LOCATION (BY OTHERS)(NIC)
- ⑨ SHARED USE PATH (SUP) PROFILE GRADE LINE

**TYPICAL REQUIRED CONCRETE ROADWAY SECTION  
4 LANE SECTION - BASE BID  
FROM STA. 151+26.47 TO STA. 177+84.31**

(LOOKING UP STATION)

- \* THE STRUCTURAL FILL MATERIAL SHALL CONSIST OF SANDS (SP, SW) CLAYEY SANDS (SC) OR SILTY SANDS (SM) WITH AT LEAST 75 PERCENT PASSING THE No. 4 SIEVE AND CONTAINING NOT MORE THAN 15 PERCENT PASSING THE No. 200 SIEVE. MATERIAL SHALL BE COMPACTED TO 95 PERCENT OF THE MAXIMUM DRY DENSITY AS DETERMINED BY ASTM D698 AT MOISTURE CONTENT BETWEEN ONE (1) PERCENT BELOW AND THREE (3) PERCENT ABOVE THE OPTIMUM MOISTURE CONTENT.
- \*\* IF SUITABLE PLASTIC MATERIAL IS NOT AVAILABLE FROM PROJECT SITE, CONTRACTOR SHALL PROVIDE PLASTIC EMBANKMENT MATERIAL AT HIS COST. SEE SECTION 203.10 OF THE LADOTD STANDARD SPECIFICATIONS FOR ITEM REQUIREMENTS.
- △ LADOTD TYPE B PAVEMENT WITH REINFORCEMENT (6"x12"x $\frac{3}{4}$ " WWF PLACED 2 INCHES BELOW TOP OF PAVEMENT OR POLYPROPYLENE FIBER AT 1.5#/C.Y. OF CONCRETE CONFORMING TO ASTM C1116, TYPE III).
- △△ 5" THICK ASPHALT CONCRETE BASE COURSE SHALL BE IN ACCORDANCE WITH LADOTD SPECIFICATION SECTION 302 (CLASS II BASE COURSE) EXCEPT 5 INCHES OF FULL DEPTH ASPHALT BASE COURSE SHALL BE REQUIRED. THERE SHALL BE NO EMBANKMENT LAYER WITHIN THIS 5 INCH THICKNESS.
- ▲ CONTRACTOR IS RESPONSIBLE FOR CALCULATING EXCAVATION AND EMBANKMENT QUANTITIES NECESSARY TO MEET FINAL GRADES. THIS INCLUDES ALL FILL REQUIRED TO GET FROM EXISTING GROUND (OR TOP OF REPLACED UNSUITABLE SUBGRADE MATERIAL) TO BOTTOM OF STRUCTURAL FILL SECTIONS FOR ROADWAY AND SHARED USE PATH. SEE CROSS SECTION SHEETS FOR LOCATIONS WHERE THIS OCCURS. THERE SHALL BE NO ADJUSTMENT IN CONTRACTOR'S LUMP SUM BID FOR EXCAVATION AND EMBANKMENT. QUANTITIES SHOWN ON SHEET 3g ARE FOR INFORMATIONAL PURPOSES ONLY.



**ALTERNATE 1 (ASPHALT ROADWAY) LEGEND**

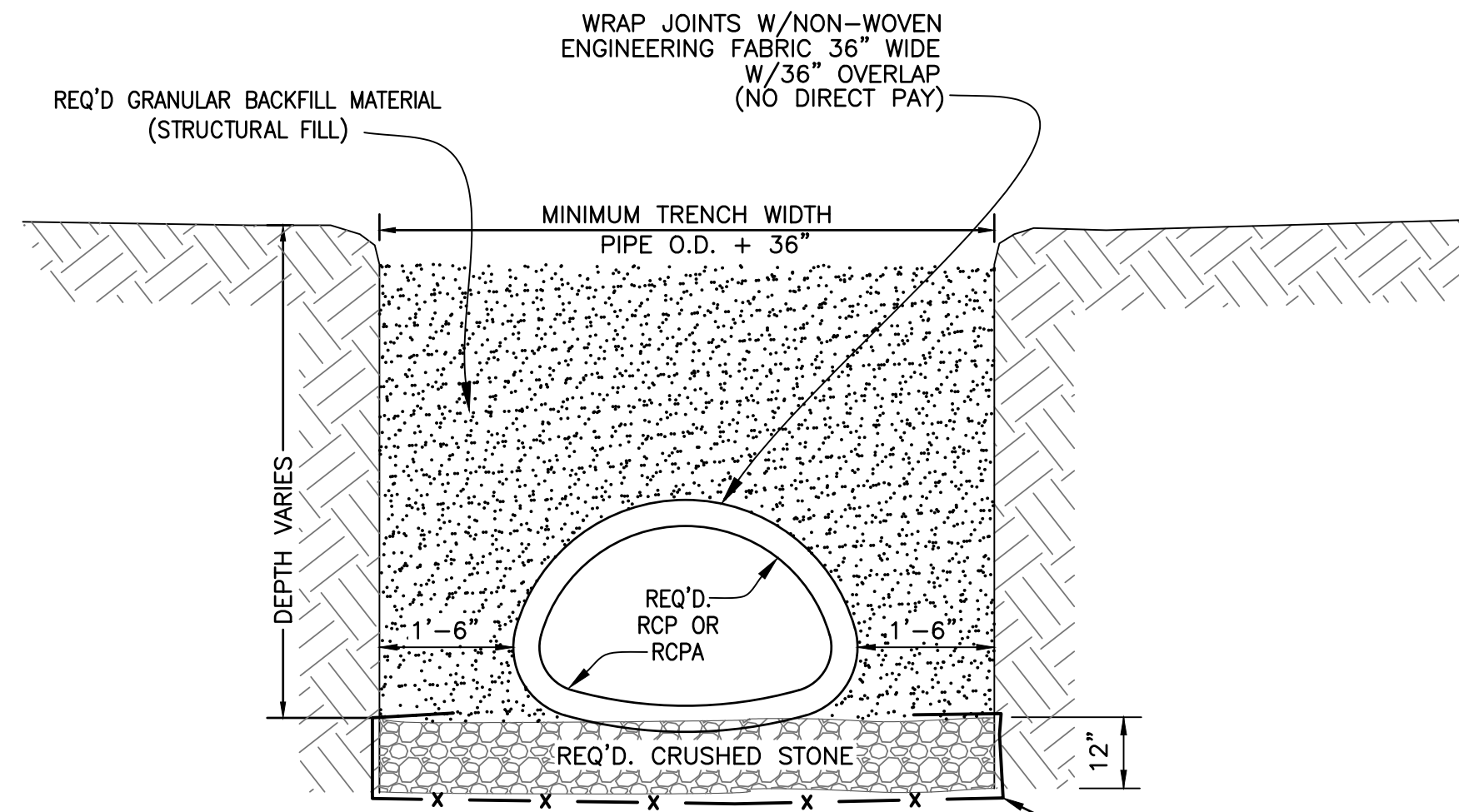
- ① 2" ASPHALT CONCRETE WEARING COURSE (LEVEL 1)
- ② 3" ASPHALT CONCRETE BINDER COURSE (LEVEL 1)
- △△ ③ 5" ASPHALT BASE COURSE (LEVEL 1)(FULL DEPTH)
- \* ④ 12" THICK (MIN.) STRUCTURAL FILL MATERIAL WITH GEOTEXTILE FABRIC
- ⑤ REQUIRED PAVEMENT STRIPING
- ⑥ 6" THICK (MIN.) STRUCTURAL FILL MATERIAL
- ⑦ ROADWAY PROFILE GRADE LINE AS SHOWN ON PROFILE AND STATION AND OFFSET LOCATIONS AS SHOWN ON GEOMETRIC PLANS
- ▲ ⑧ EXCAVATION AND EMBANKMENT
- ⑨ LIMITS OF HYDRO-SEEDING
- ⑩ 6" CONCRETE BARRIER CURB AND GUTTER
- \*\* ⑪ EMBANKMENT (PLASTIC SOIL BLANKET). SUITABLE PLASTIC MATERIAL MAY BE OBTAINED FROM EXCAVATION WITH A MAXIMUM LIQUID LIMIT OF 70% AND SUBJECT TO APPROVAL BY THE PROJECT ENGINEER OR PLASTIC EMBANKMENT MATERIAL PROVIDED BY THE CONTRACTOR
- ⑫ 5" THICK CONCRETE PAVEMENT (SHARED USE PATH)
- ⑬ SHARED USE PATH (SUP) PROFILE GRADE LINE
- Ⓜ PROPOSED WATER LOCATION (BY OTHERS)(NIC)
- Ⓞ PROPOSED GAS LOCATION (BY OTHERS)(NIC)
- Ⓟ PROPOSED FIBER OPTIC LOCATION (BY OTHERS)(NIC)
- Ⓠ PROPOSED SANITARY SEWER LOCATION (BY OTHERS)(NIC)

**TYPICAL REQUIRED ASPHALT ROADWAY SECTION  
4 LANE SECTION - ALTERNATE 1  
FROM STA. 151+26.47 TO STA. 177+84.31**

(LOOKING UP STATION)

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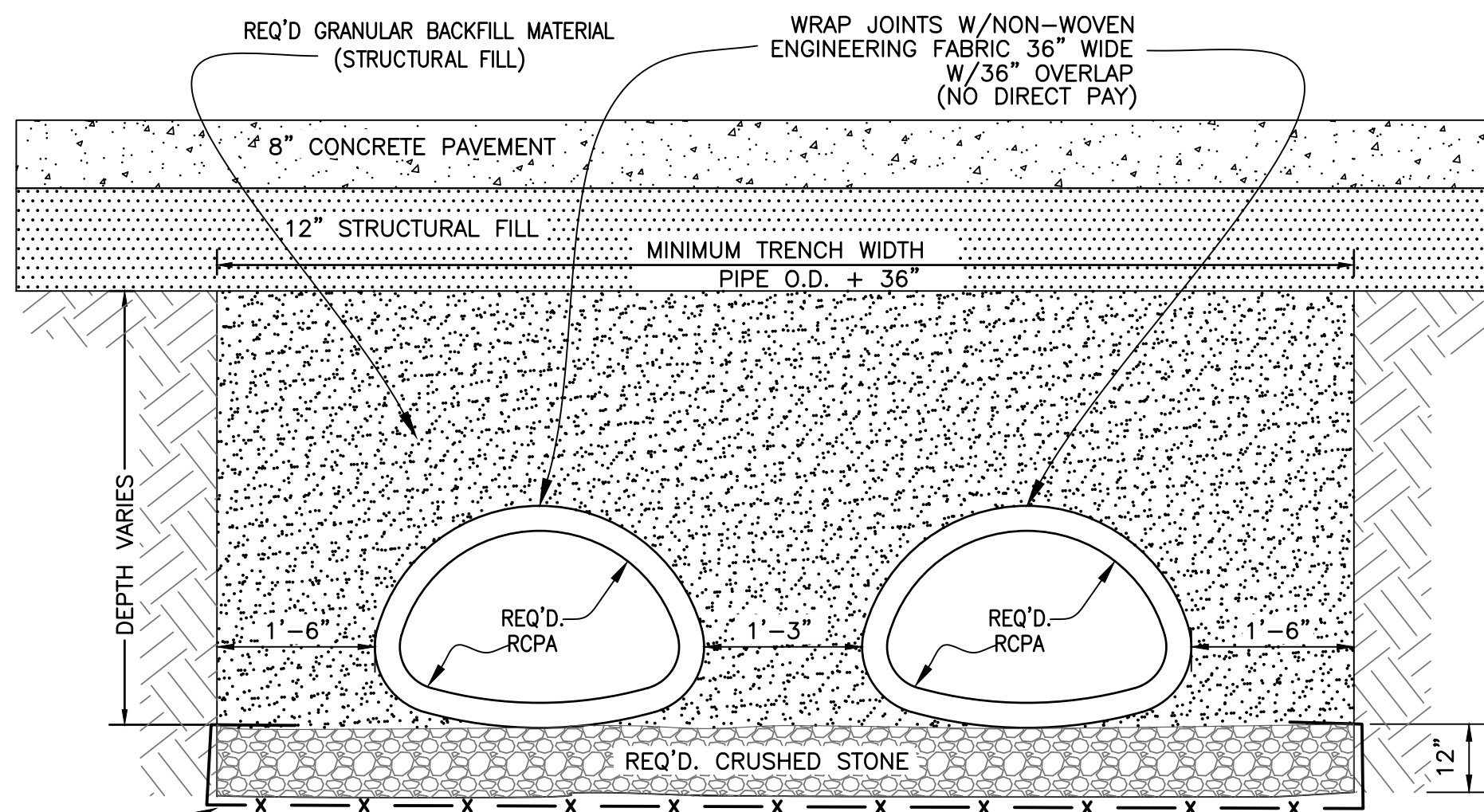




**RCP OR RCPA BEDDING & BACKFILL DETAIL**

N.T.S.

1. BACKFILL, BEDDING AND GEOTEXTILE FABRIC SHALL BE INCLUDED IN LINEAR FOOT OF RCP.



**MULTIPLE RCPA BEDDING & BACKFILL DETAIL**

N.T.S.

1. BACKFILL, BEDDING AND GEOTEXTILE FABRIC SHALL BE INCLUDED IN LINEAR FOOT OF RCP.
2. 24" & 36" RCPA SPACING BETWEEN PIPES IS 1'-3".

**NOTE**  
 THE CONTRACTOR'S ATTENTION IS CALLED TO THE PRESENCE OF OVERHEAD AND UNDERGROUND POWER LINES, UNDERGROUND GAS, AND COMMUNICATION LINES THROUGHOUT THE PROJECT. THE CONTRACTOR IS RESPONSIBLE FOR PROJECT SAFETY AND COORDINATING HIS OPERATIONS WITH ALL UTILITY COMPANIES.  
 THE CONTRACTOR SHALL FIELD VERIFY LOCATIONS OF ALL UNDERGROUND UTILITIES PRIOR TO START OF CONSTRUCTION.

**DRAINAGE NOTES**

1. THE CONTRACTOR MUST VERIFY ELEVATIONS OF ALL EXISTING INVERTS THAT ARE A PART OF THIS PROJECT.
2. ADEQUATE DRAINAGE SHALL BE PROVIDED AND MAINTAINED AT ALL TIMES DURING CONSTRUCTION BY THE CONTRACTOR.
3. USE OF TRENCH BOXES FOR THE INSTALLATION OF SEWER, WATER, OR DRAIN LINES WILL BE PERMITTED FOR TRENCH PROTECTION.
4. THE CONTRACTOR SHALL PROTECT THE EXISTING UTILITIES BY PROVIDING ADEQUATE SUPPORT AND BRACING DURING INSTALLATION OF NEW UTILITIES UNDER THOSE EXISTING LINES. CONTRACTOR WILL BE RESPONSIBLE FOR REPAIRING OR REPLACING THE EXISTING LINES IF DAMAGED.
5. THE LOCATION OF EXISTING UTILITIES SHOWN ARE APPROXIMATE, THE CONTRACTOR SHALL VERIFY THE SAME AND SHALL TAKE NECESSARY PRECAUTIONS TO PROTECT THEM.
6. REINFORCED CONCRETE PIPE SHALL BE ASTM C-076, CLASS III, TYPE 3 JOINTS. REINFORCED CONCRETE PIPE ARCH SHALL BE ASTM C-506, CLASS III, TYPE 3 JOINTS. ALL CONCRETE PIPE JOINTS SHALL BE WRAPPED WITH A 36" WIDE FILTER FABRIC CENTERED ON JOINTS.
7. MANHOLES AND INLETS SHALL MATCH THE LEVEL OF THE NEW SURFACE USING CAST IRON ADJUSTING RINGS (IF NECESSARY), CAST-IN-PLACE CONCRETE OR BRICK AND MORTAR FOR STRUCTURES LOCATED OUTSIDE TRAVEL LANES. STRUCTURES LOCATED WITHIN ROADWAY TRAVEL LANES SHALL BE ADJUSTED WITH CAST IRON ADJUSTING RINGS OR CAST-IN-PLACE CONCRETE. ONLY TRAFFIC, DRAINAGE, SEWER AND WATER MANHOLES AND STRUCTURES SHALL BE ADJUSTED TO GRADE UNDER THIS CONTRACT. OTHER MANHOLES AND STRUCTURES SHALL BE ADJUSTED TO GRADE BY THE RESPECTIVE UTILITY COMPANY. MANHOLE ADJUSTMENTS SHALL BE IN ACCORDANCE WITH APPROPRIATE L.D.O.T.D. STANDARD MANHOLE CONSTRUCTION PLANS.
8. ALL EXISTING DRAINAGE TO REMAIN UNLESS OTHERWISE NOTED.
9. DRAIN LINES SHALL BE INSTALLED FROM DOWNSTREAM TO UPSTREAM STARTING AT DRAINAGE OUTFALLS.
10. EXISTING DRAIN LINES CONFLICTING WITH REQUIRED WORK SHALL BE REMOVED AND PAID UNDER REMOVAL OF STRUCTURES AND OBSTRUCTIONS ITEM.
11. ALL DITCH BANKS SHALL BE HYDROSEEDDED.
12. DRAIN LINE BACKFILL SHALL BE GRANULAR MATERIAL OR CLAYEY-SAND. ALL COSTS FOR BACKFILL MATERIAL SHALL BE INCLUDED IN ASSOCIATED ITEM OF WORK.
13. DRAIN LINE BACKFILL AND BEDDING SHALL BE IN ACCORDANCE WITH PIPE BEDDING AND BACKFILL DETAIL ON DRAINAGE DETAILS SHEET. ALL COSTS FOR EXCAVATION, BACKFILL, BEDDING MATERIAL AND GEOTEXTILE FABRIC OF REQUIRED STORM DRAIN PIPE AND STRUCTURES SHALL BE INCLUDED IN STORM DRAIN PIPE AND STRUCTURES ITEMS (CATCH BASINS, DRAIN MANHOLES, SIDE DRAIN DRAIN END TREATMENT, ETC.). BEDDING MATERIAL FOR DRAIN LINES AND BOX CULVERTS SHALL HAVE A MINIMUM DEPTH OF 12" INCHES AND WIDTH OF THE PIPE OUTSIDE DIAMETER OR WIDTH PLUS 36 INCHES. BEDDING MATERIAL FOR DRAINAGE STRUCTURES SHALL BE THE BASE SLAB DIMENSIONS PLUS 24" INCHES FOR A DEPTH OF 12" INCHES.
14. ALL CATCH BASINS WITHIN PAVEMENT SHALL BE ISOLATED.
15. FOR AREAS OUTSIDE OF LADOTD RIGHT OF WAY, CAST IRON LID FOR CB-06 SHALL READ "DRAIN" IN LIEU OF LADOTD STANDARD EMBLEM.
16. 9" MINIMUM COVER IS REQUIRED OVER DRAINAGE STRUCTURES WHERE POSSIBLE. IN AREAS WHERE 9" CANNOT BE ACHIEVED, THE CONTRACTOR IS REMINDED TO TAKE CARE NOT TO DAMAGE PIPES DURING SUBBASE CONSTRUCTION AND/ OR PAVING OPERATIONS. ANY DAMAGE TO PIPES WILL BE REPAIRED BY THE CONTRACTOR AT NO COST TO THE PARISH.
17. STRUCTURAL FILL AND BACKFILL SHALL CONSIST OF SANDS (SP, SW), CLAYEY SANDS (SC) OR SILTY SANDS (SM) WITH AT LEAST 75 PERCENT PASSING THE No. 4 SIEVE AND CONTAINING NOT MORE THAN 15 PERCENT PASSING THE No. 200 SIEVE. MATERIAL SHALL BE COMPACTED TO 95 PERCENT OF THE MAXIMUM DRY DENSITY AS DETERMINED BY ASTM D698 AT MOISTURE CONTENT ONE (1) PERCENT BELOW AND THREE (3) PERCENT ABOVE THE OPTIMUM MOISTURE CONTENT.

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**DRAINAGE DETAILS**  
 LA 1077/LA 21 CONNECTOR ROAD

Project Number:  
 RCLC No: 714-08



04/29/2021

Sheet Number:



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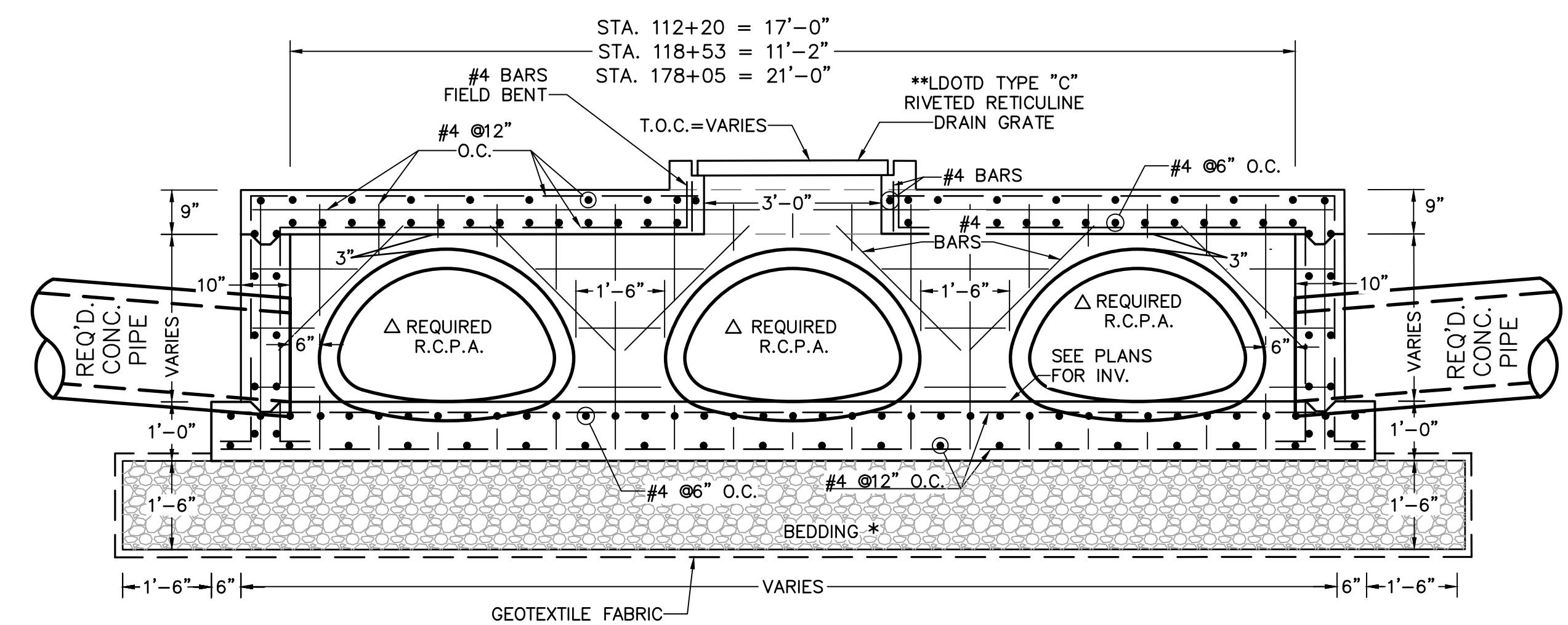
**JUNCTION BOX  
MANHOLE DETAILS**  
LA 1077/LA 21 CONNECTOR ROAD

Project Number:  
RCLC No: 714-08

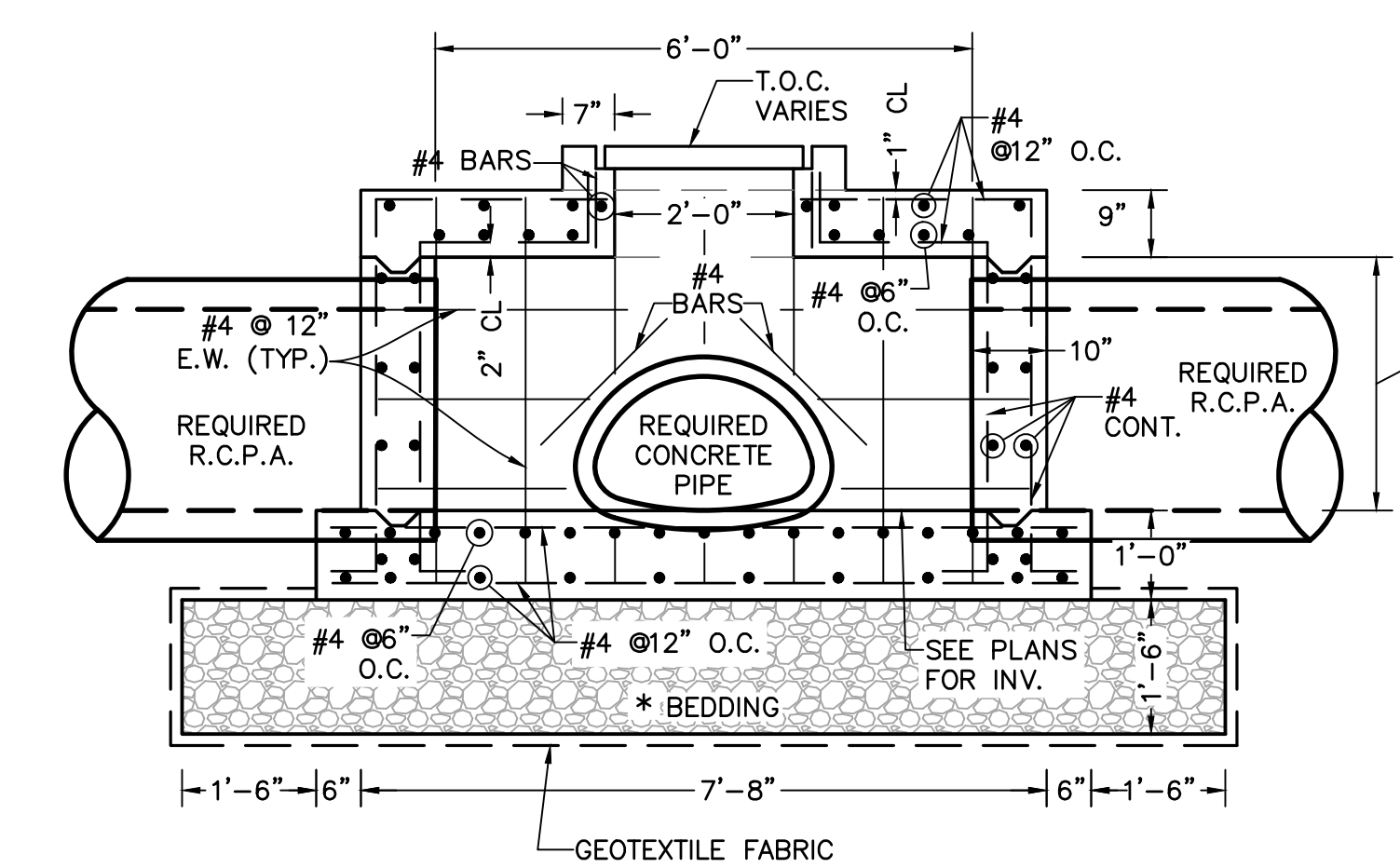


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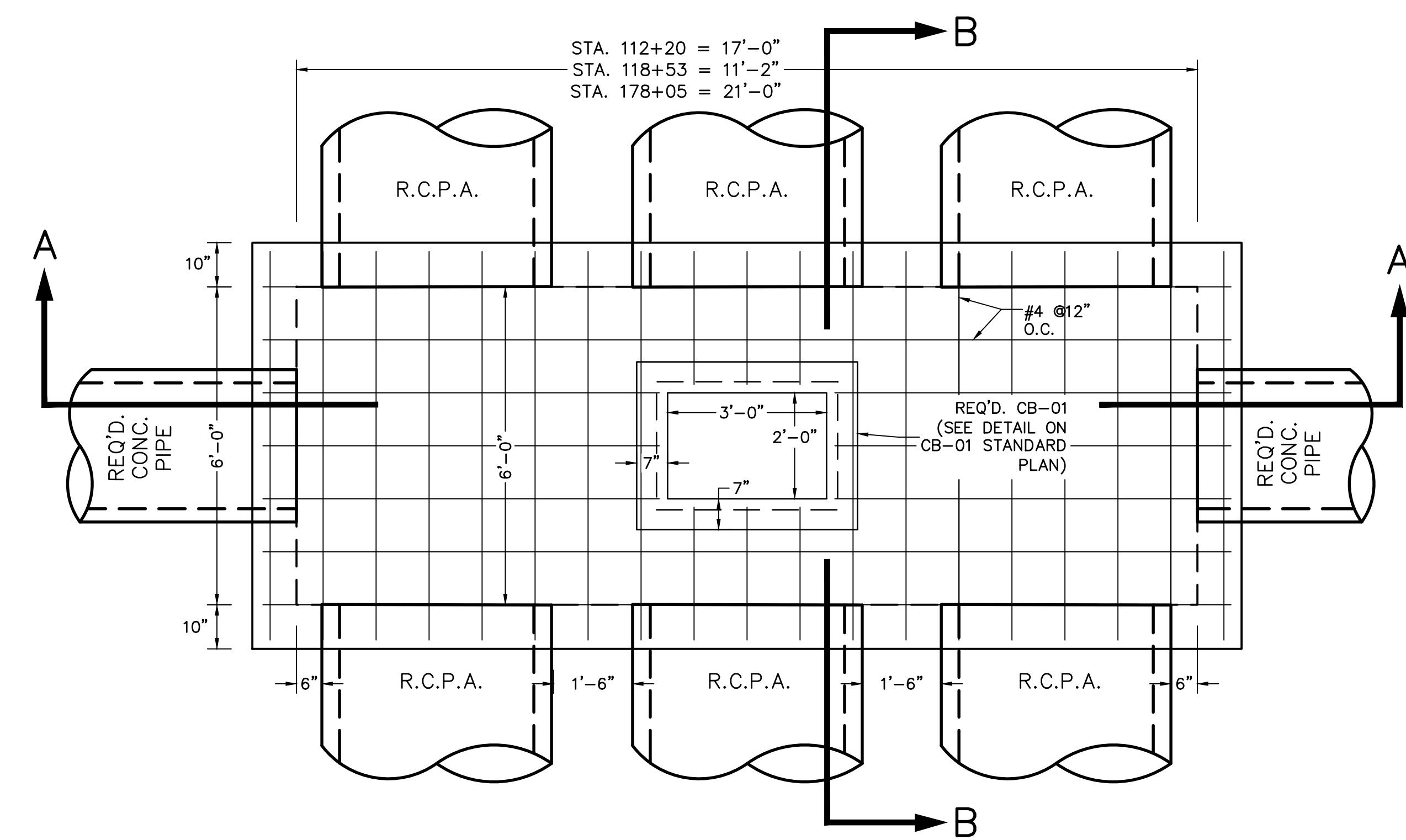


**SECTION A-A**  
SCALE: 1" = 2'



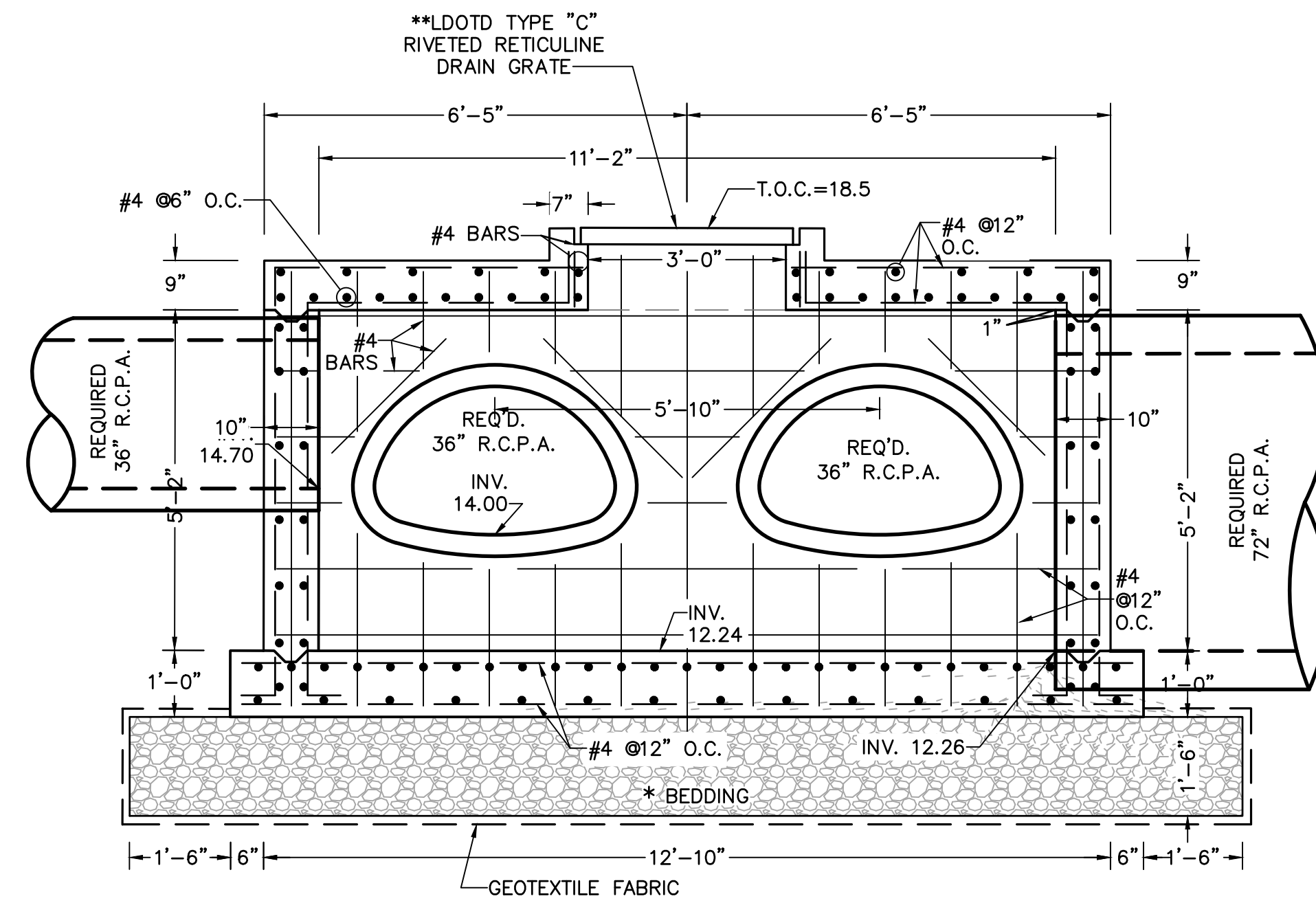
**SECTION B-B**  
SCALE: 1" = 2'

- NOTES:**
- 1) CONCRETE TO BE 4,000 PSI (MINIMUM) @ 28 DAYS.
  - 2) CONCRETE USED SHALL BE CLASS "A".
  - 3) REINFORCING STEEL SHALL CONFORM TO A.S.T.M. DESIGNATION A6150-GRADE 60.
  - 4) CONTRACTOR SHALL BE TOTALLY RESPONSIBLE FOR DESIGN, CONSTRUCTION, AND STABILITY OF ANY SHEETING. THERE SHALL BE NO DIRECT PAY FOR ANY TYPE OF SHEETING REQUIRED.
  - 5) PAYMENT FOR COST OF BEDDING AND NON WOVEN GEOTEXTILE FABRIC SHALL BE INCLUDED IN THE COST OF JUNCTION BOX STRUCTURE.
  - 6) EXISTING DRAINAGE AND OTHER UTILITIES SHOULD NOT BE ADVERSELY IMPACTED DURING PROJECT CONSTRUCTION.
  - 7) BEDDING MATERIAL TO COMPLY WITH LDOTD SECTION 302- CLASS II BASE COURSE. BEDDING TO BE COMPACTED TO 95% OF MAXIMUM DRY DENSITY ACCORDING TO TR 418 METHOD "E" AND PLACED IN LIFTS NOT TO EXCEED 6" WHEN COMPACTED.
  - 8) SEE LDOTD STANDARD MC-01.
  - 9) JUNCTION BOX STRUCTURE TYPE 1 WILL ACCOMMODATE UP TO 3 PIPES.
  - 10) SEE PLAN/ PROFILE DRAWINGS FOR ACTUAL CULVERT SIZES FOR TIE-IN TO EACH JUNCTION BOX.

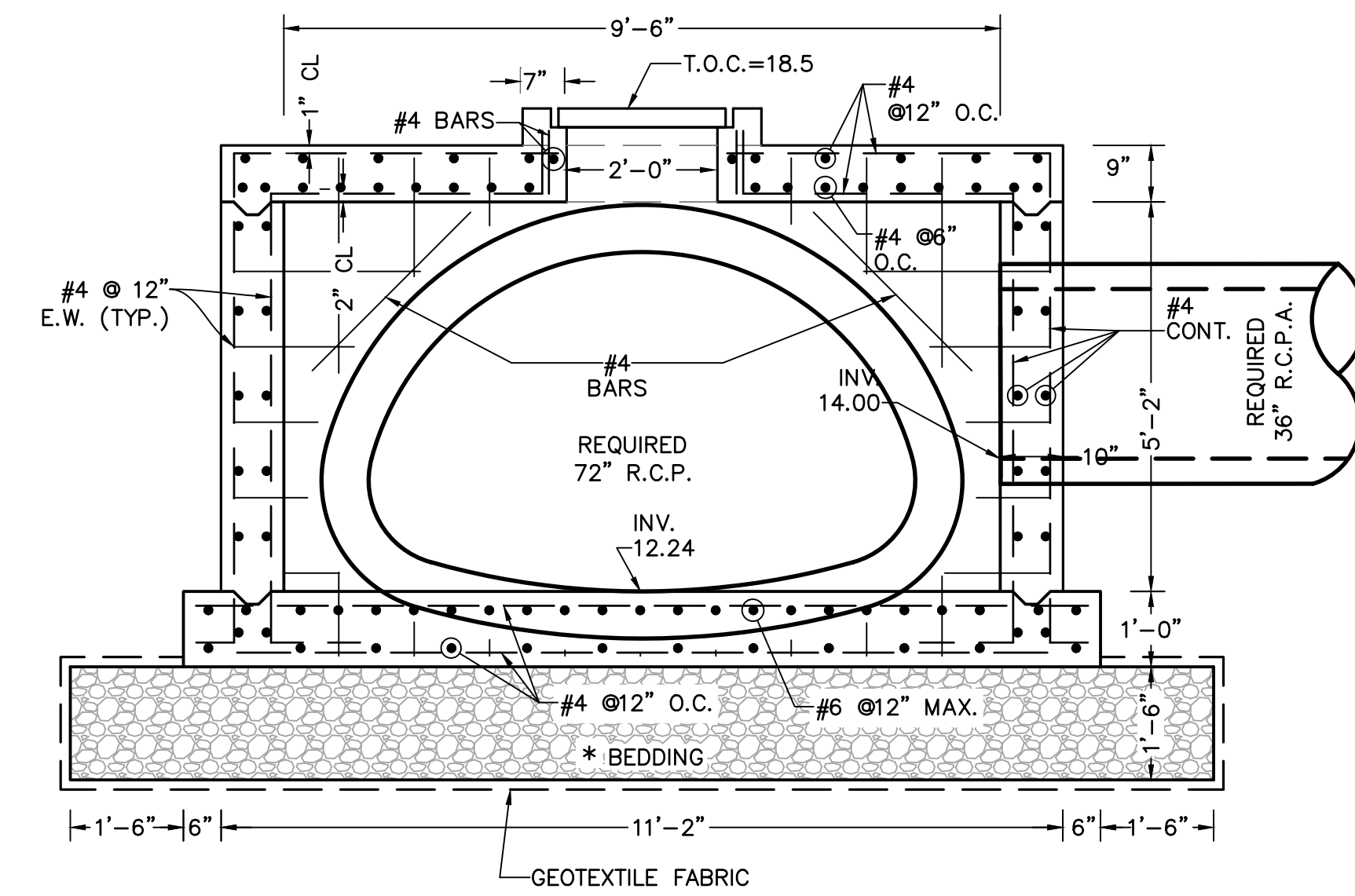


**PLAN- JUNCTION BOX STRUCTURE TYPE 1  
AT STATIONS 112+20, 118+53 & 178+05**  
SCALE: 1" = 2'

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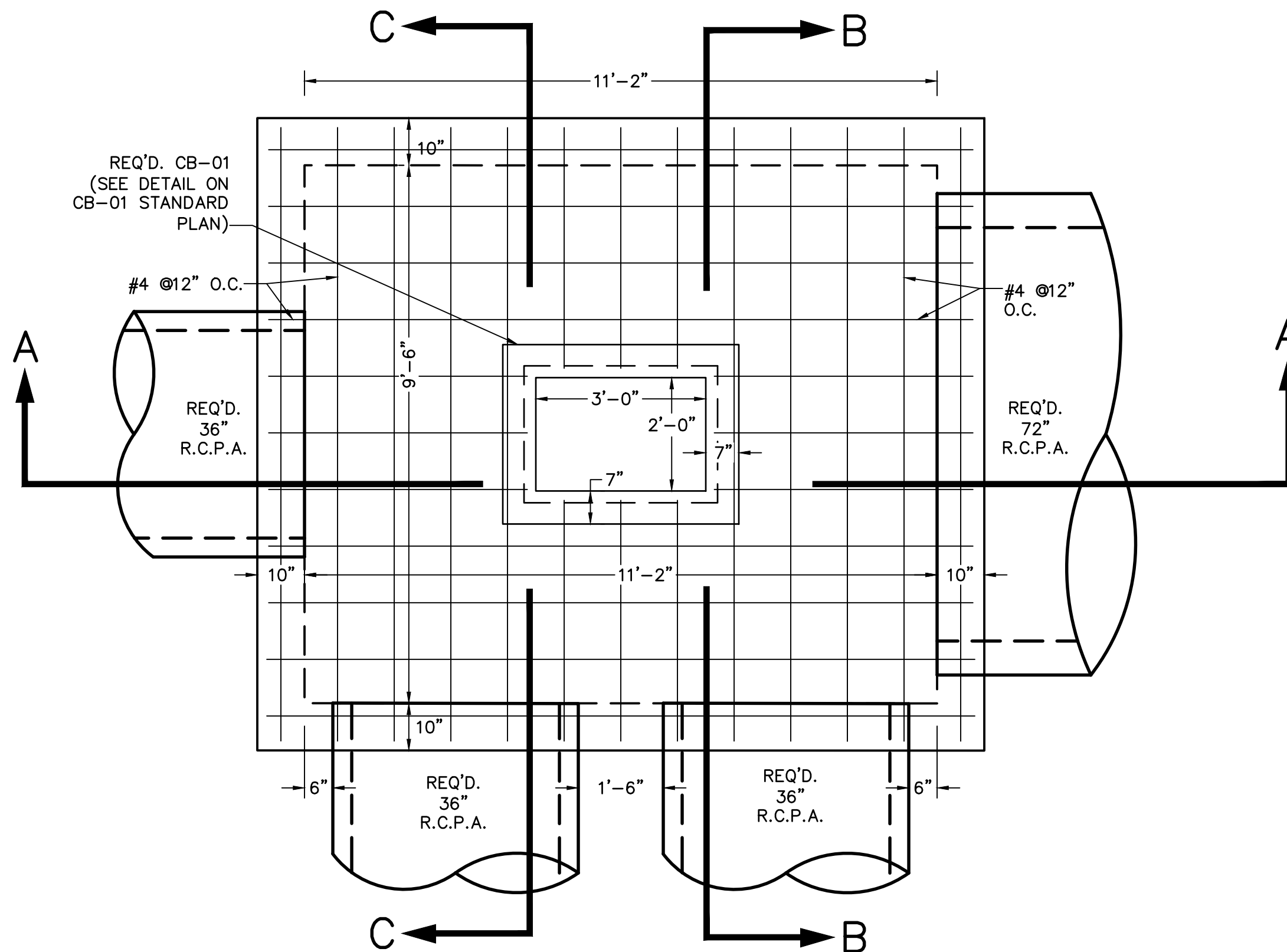
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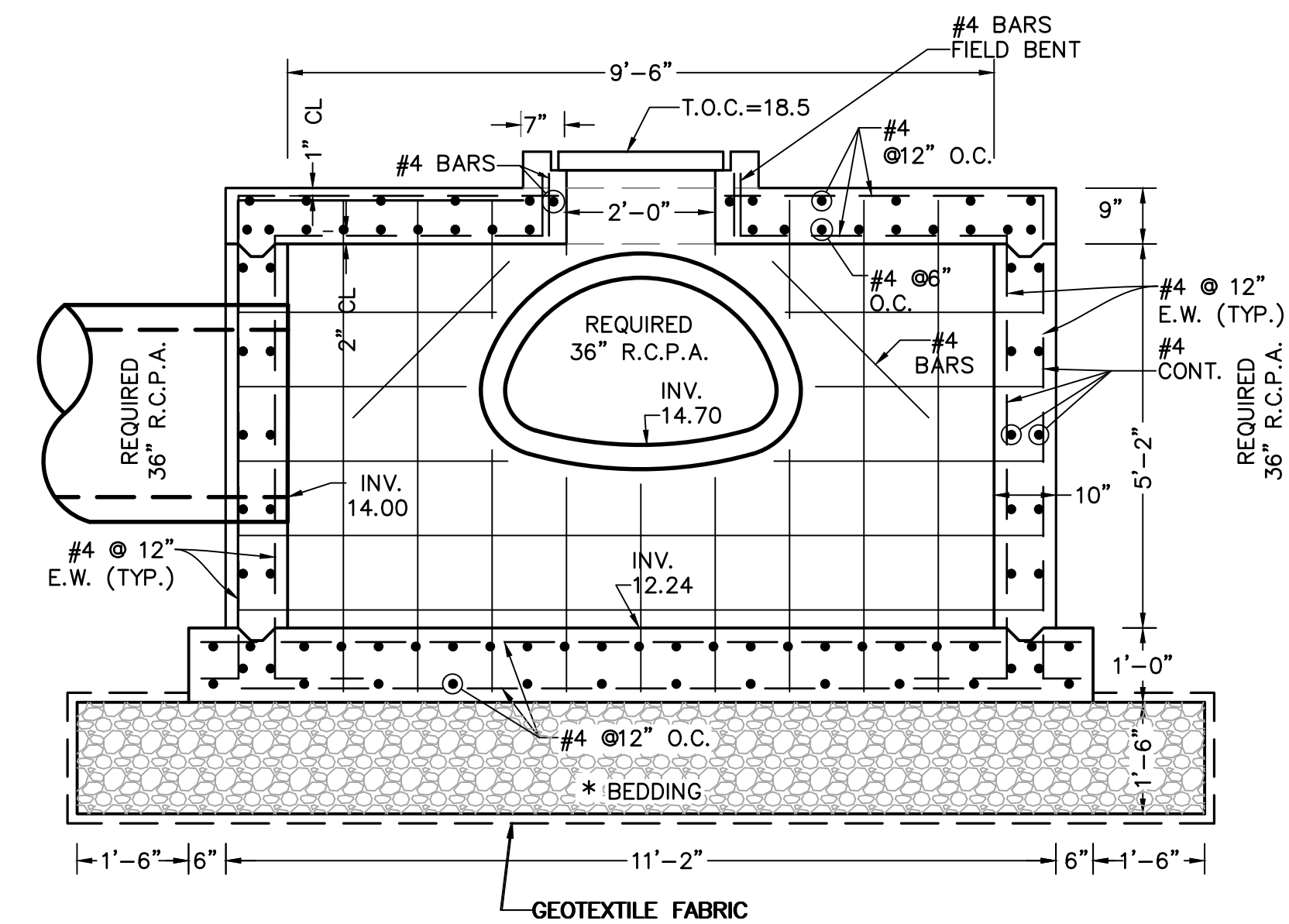
**SECTION B-B**  
SCALE: 1" = 2'

**NOTES:**

- 1) CONCRETE TO BE 4,000 PSI (MINIMUM) @ 28 DAYS.
- 2) CONCRETE USED SHALL BE CLASS "A".
- 3) REINFORCING STEEL SHALL CONFORM TO A.S.T.M. DESIGNATION A6150- GRADE 60.
- 4) CONTRACTOR SHALL BE TOTALLY RESPONSIBLE FOR DESIGN, CONSTRUCTION, AND STABILITY OF ANY SHEETING. THERE SHALL BE NO DIRECT PAY FOR ANY TYPE OF SHEETING REQUIRED.
- 5) PAYMENT FOR COST OF BEDDING AND NON WOVEN GEOTEXTILE FABRIC SHALL BE INCLUDED IN THE COST OF JUNCTION BOX MANHOLE STRUCTURE.
- 6) EXISTING DRAINAGE AND OTHER UTILITIES SHOULD NOT BE ADVERSELY IMPACTED DURING PROJECT CONSTRUCTION.
- \* 7) BEDDING MATERIAL TO COMPLY WITH LDOTD SECTION 302- CLASS II BASE COURSE. BEDDING TO BE COMPACTED TO 95% OF MAXIMUM DRY DENSITY ACCORDING TO TR 418 METHOD "E" AND PLACED IN LIFTS NOT TO EXCEED 6" WHEN COMPACTED.
- \*\* 8) SEE LDOTD STANDARD MC-01.



**PLAN- JUNCTION BOX STRUCTURE TYPE 2  
AT STATION 203+79.51, -47.13' LEFT**  
SCALE: 1" = 2'



**SECTION C-C**  
SCALE: 1" = 2'

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DETAILED	LBW
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DATE	04/29/21
SHEET	20

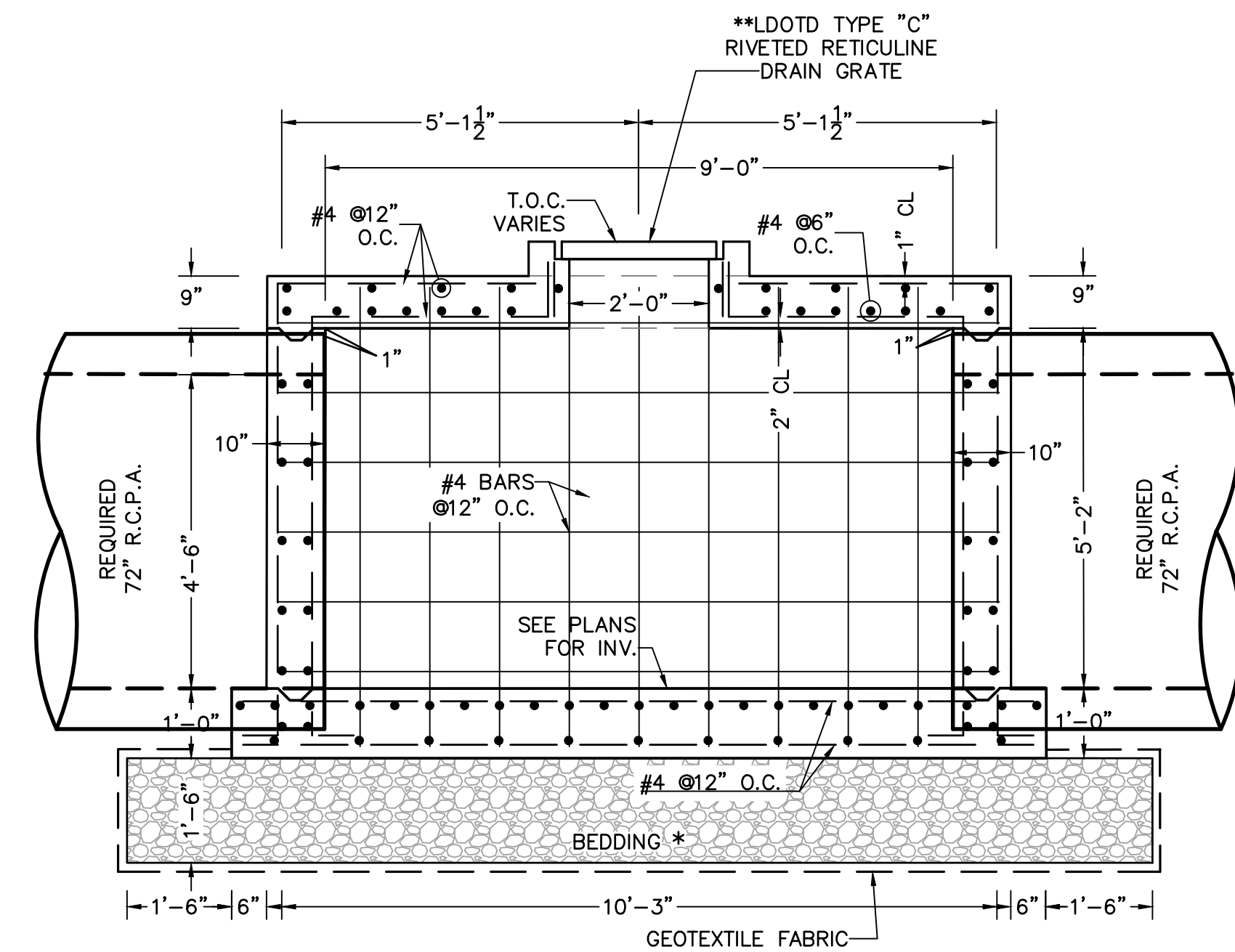
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**JUNCTION BOX  
MANHOLE DETAILS**  
LA 1077/LA 21 CONNECTOR ROAD

Project Number:  
RCLC No: 714-08

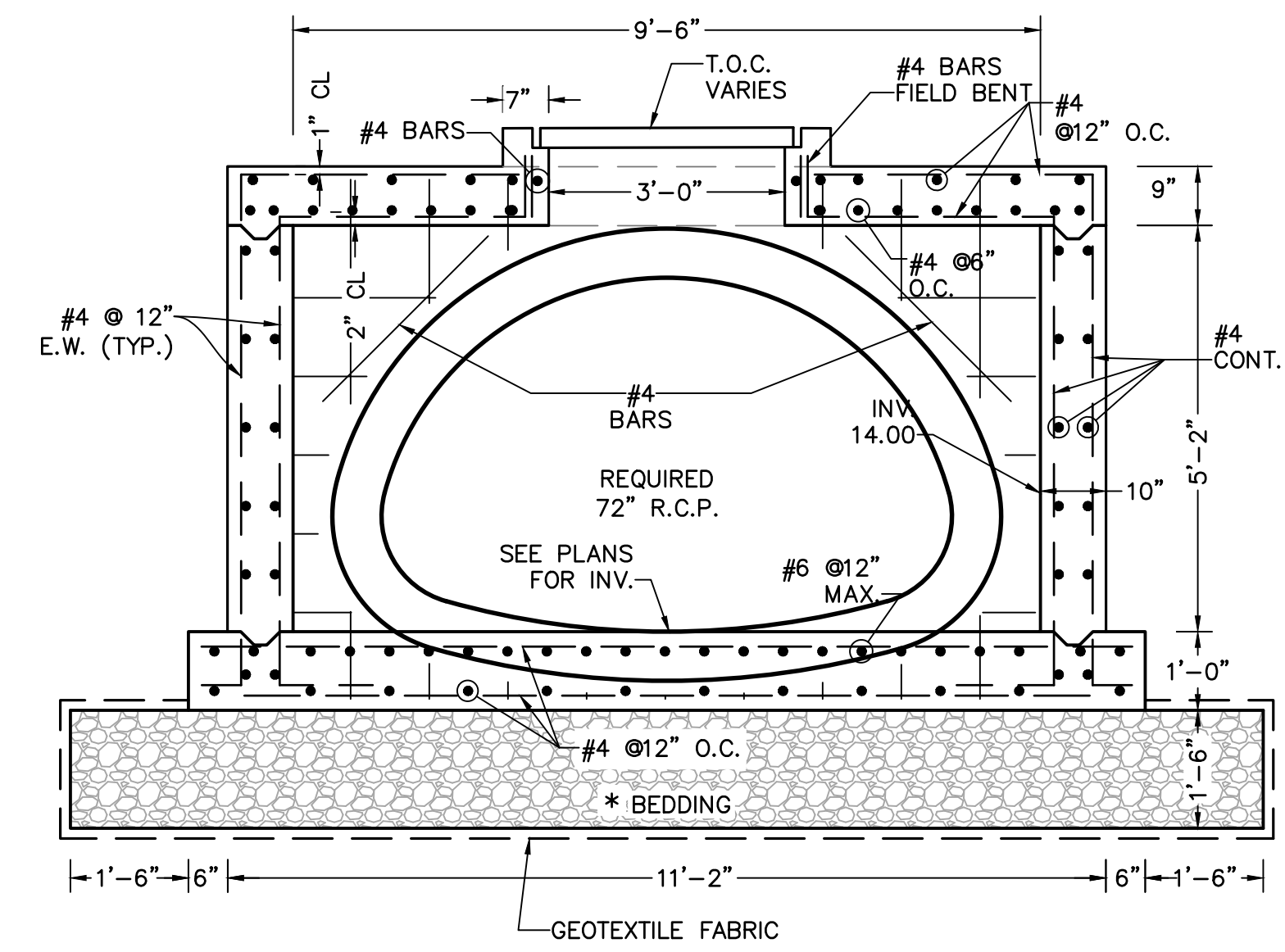


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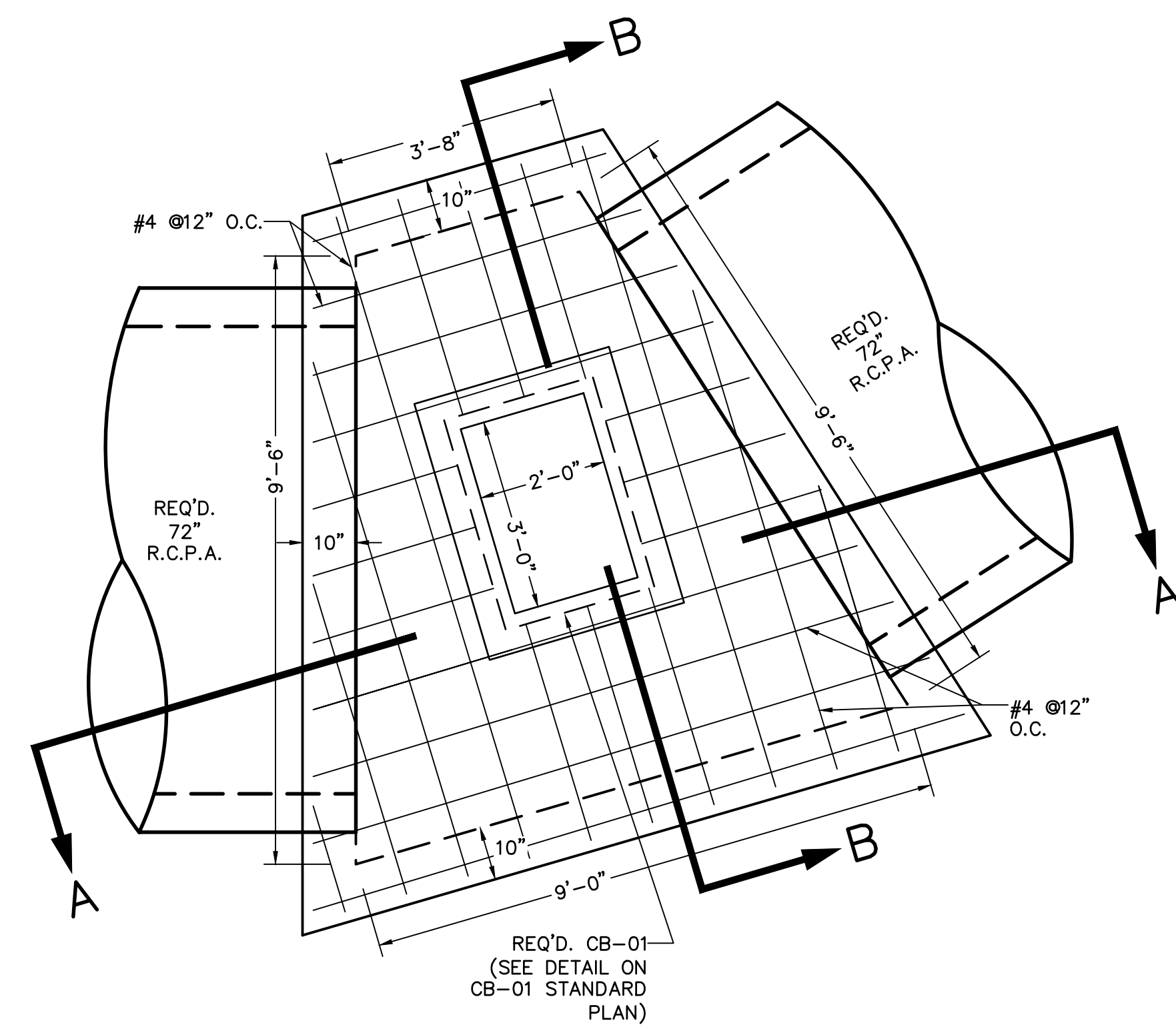


**SECTION A-A**  
SCALE: 1" = 2'

- NOTES:**
- 1) CONCRETE TO BE 4,000 PSI (MINIMUM) @ 28 DAYS.
  - 2) CONCRETE USED SHALL BE CLASS "A".
  - 3) REINFORCING STEEL SHALL CONFORM TO A.S.T.M. DESIGNATION A6150-GRADE 60.
  - 4) CONTRACTOR SHALL BE TOTALLY RESPONSIBLE FOR DESIGN, CONSTRUCTION, AND STABILITY OF ANY SHEETING. THERE SHALL BE NO DIRECT PAY FOR ANY TYPE OF SHEETING REQUIRED.
  - 5) PAYMENT FOR COST OF BEDDING AND NON WOVEN GEOTEXTILE FABRIC SHALL BE INCLUDED IN THE COST OF JUNCTION BOX MANHOLE STRUCTURE.
  - 6) EXISTING DRAINAGE AND OTHER UTILITIES SHOULD NOT BE ADVERSELY IMPACTED DURING PROJECT CONSTRUCTION.
  - \* 7) BEDDING MATERIAL TO COMPLY WITH LDOTD SECTION 302- CLASS II BASE COURSE. BEDDING TO BE COMPACTED TO 95% OF MAXIMUM DRY DENSITY ACCORDING TO TR 418 METHOD "E" AND PLACED IN LIFTS NOT TO EXCEED 6" WHEN COMPACTED.
  - \*\* 8) SEE LDOTD STANDARD MC-01.

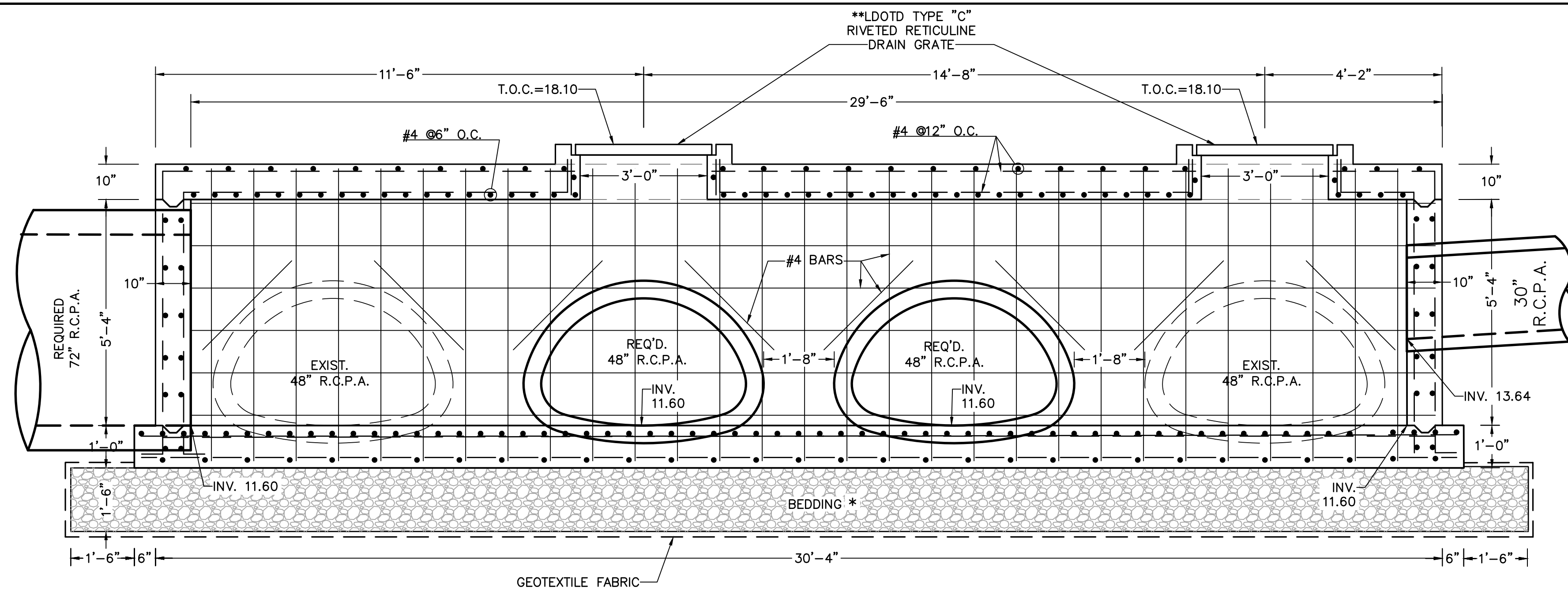


**SECTION B-B**  
SCALE: 1" = 2'



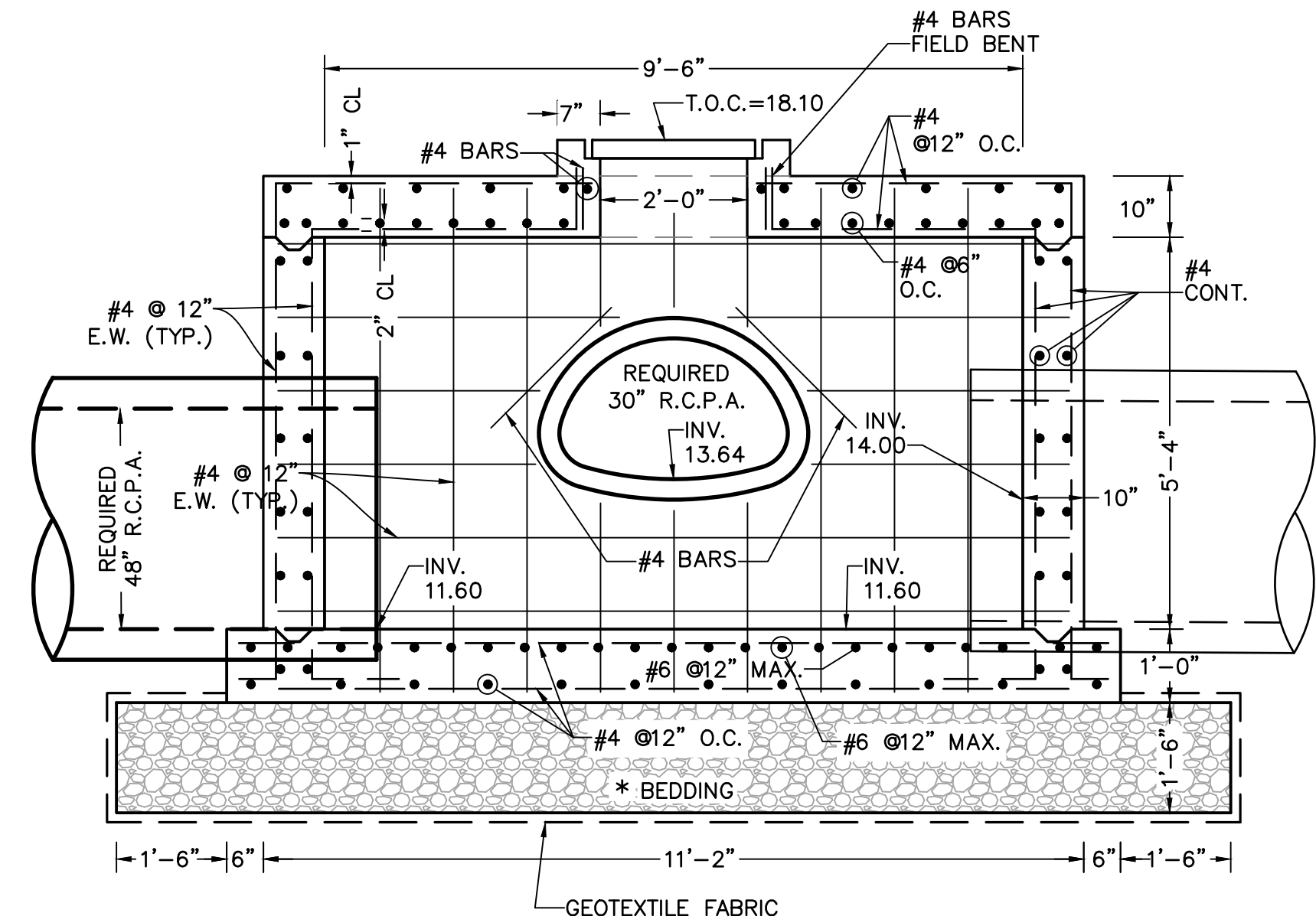
**PLAN- JUNCTION BOX STRUCTURE TYPE 3  
AT STAS. 204+69.47, 205+23.85 & 2+60.26**  
SCALE: 1" = 2'

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**SECTION A-A**

(LOOKING WEST)  
SCALE: 1" = 2'

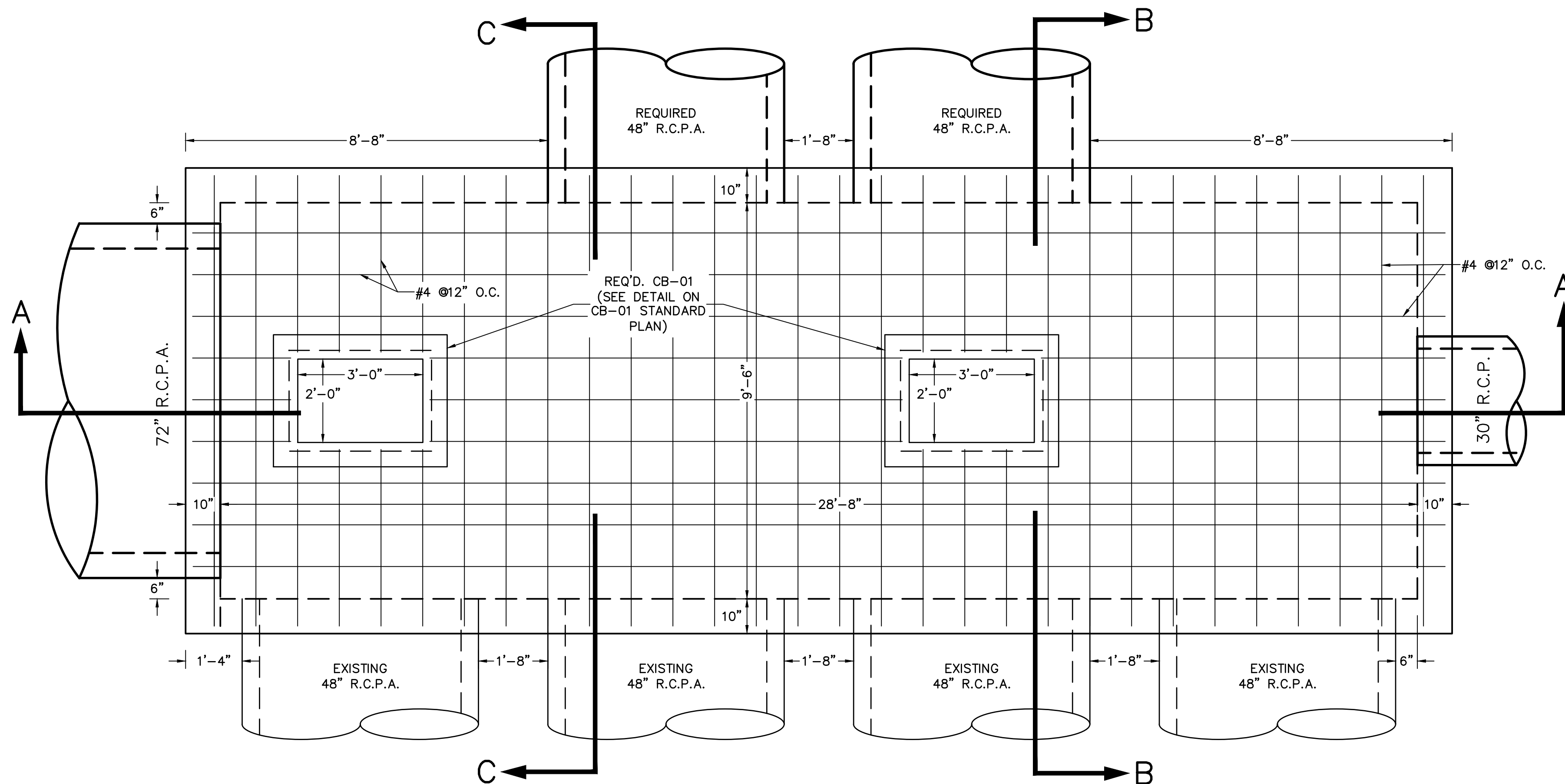


**SECTION B-B**

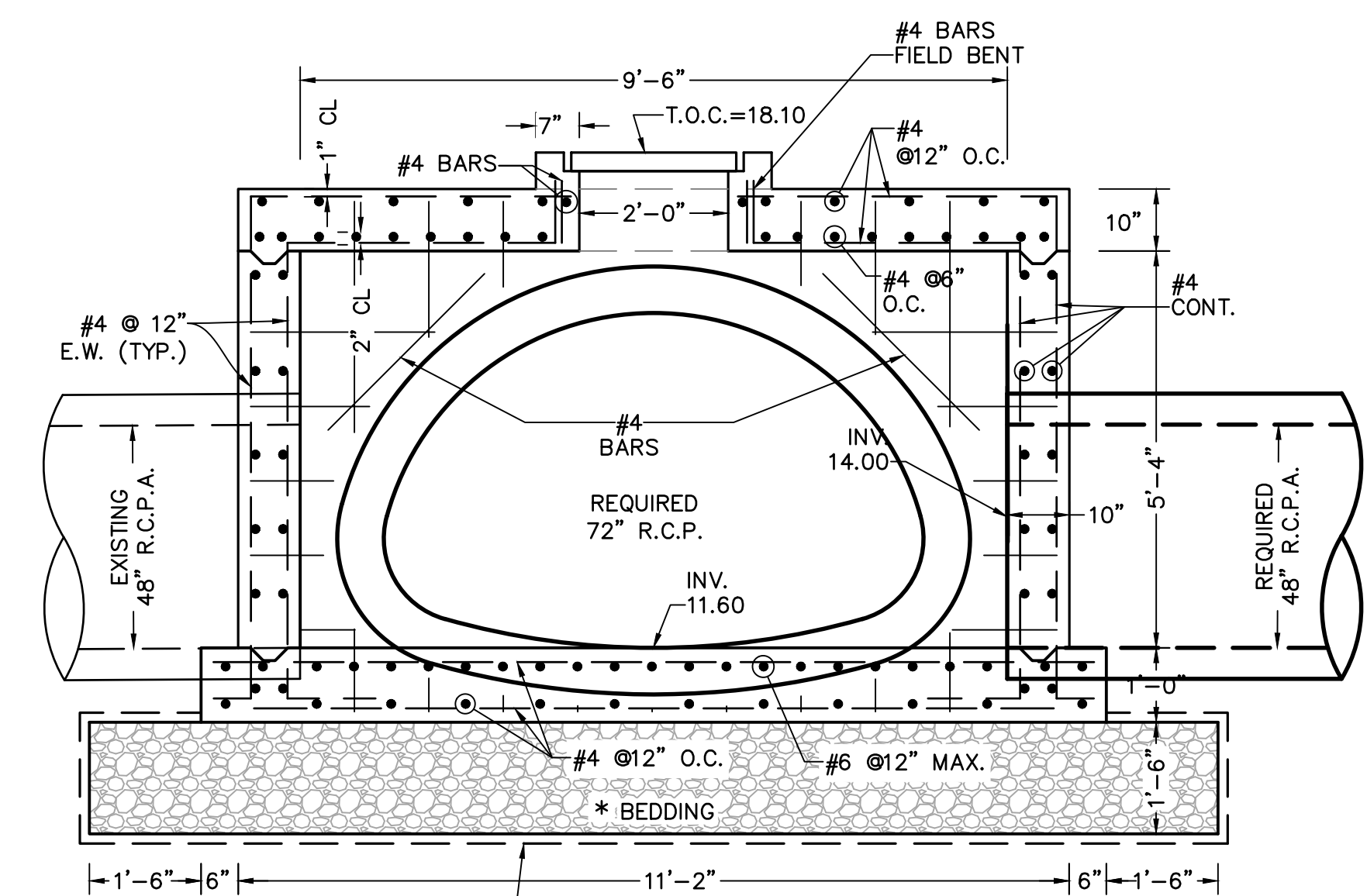
(LOOKING NORTH)  
SCALE: 1" = 2'

**NOTES:**

- 1) CONCRETE TO BE 4,000 PSI (MINIMUM) @ 28 DAYS.
- 2) CONCRETE USED SHALL BE CLASS "A".
- 3) REINFORCING STEEL SHALL CONFORM TO A.S.T.M. DESIGNATION A6150--GRADE 60.
- 4) CONTRACTOR SHALL BE TOTALLY RESPONSIBLE FOR DESIGN, CONSTRUCTION, AND STABILITY OF ANY SHEETING. THERE SHALL BE NO DIRECT PAY FOR ANY TYPE OF SHEETING REQUIRED.
- 5) PAYMENT FOR COST OF BEDDING AND NON WOVEN GEOTEXTILE FABRIC SHALL BE INCLUDED IN THE COST OF JUNCTION BOX MANHOLE STRUCTURE.
- 6) EXISTING DRAINAGE AND OTHER UTILITIES SHOULD NOT BE ADVERSELY IMPACTED DURING PROJECT CONSTRUCTION.
- \* 7) BEDDING MATERIAL TO COMPLY WITH LDOTD SECTION 302-- CLASS II BASE COURSE. BEDDING TO BE COMPACTED TO 95% OF MAXIMUM DRY DENSITY ACCORDING TO TR 418 METHOD "E" AND PLACED IN LIFTS NOT TO EXCEED 6" WHEN COMPACTED.
- \*\* 8) SEE LDOTD STANDARD MC-01.



**PLAN- JUNCTION BOX STRUCTURE TYPE 4  
AT OCHSNER BLVD. STATION 6+26.24, -45' LEFT**



**SECTION C-C**

(LOOKING SOUTH)  
SCALE: 1" = 2'

DESIGNED	ATL
CHECKED	FJZ
DETAILED	LBW
CHECKED	FJZ
DATE	04/29/21
SHEET	2P

NO.	DATE	BY	REVISION DESCRIPTION

**JUNCTION BOX  
MANHOLE DETAILS**  
LA 1077/LA 21 CONNECTOR ROAD

Project Number:  
RCLC No: 714-08



04/29/2021  
Sheet Number:







# GENERAL NOTES

- THE REFERENCE BENCH MARK IS SHOWN ON THE TITLE SHEET.
- CONTRACTOR IS RESPONSIBLE FOR CALCULATING EXCAVATION AND EMBANKMENT QUANTITIES NECESSARY TO MEET FINAL GRADES. THIS INCLUDES ALL FILL REQUIRED TO GET FROM EXISTING GROUND (OR TOP OF REPLACED UNSUITABLE SUBGRADE MATERIAL) TO BOTTOM OF STRUCTURAL FILL SECTIONS FOR ROADWAY AND SHARED USE PATH. SEE CROSS SECTION SHEETS FOR LOCATIONS WHERE THIS OCCURS. THERE SHALL BE NO ADJUSTMENT IN CONTRACTOR'S LUMP SUM BID FOR EXCAVATION AND EMBANKMENT. QUANTITIES SHOWN ON SHEET 3g ARE FOR INFORMATIONAL PURPOSES ONLY.**
- CONTRACTOR IS RESPONSIBLE FOR CALCULATION OF QUANTITIES FOR ALL LUMP SUM BID ITEMS.
- PAY ITEM QUANTITIES MAY BE ADJUSTED TO SUIT SITE CONDITIONS PER DIRECTION OF PROJECT ENGINEER. THE LINES AND GRADES SHOWN ON THE PLANS MAY BE MODIFIED SLIGHTLY BY THE PROJECT ENGINEER IF FIELD CONDITIONS JUSTIFY SUCH A VARIATION. THE CONTRACTOR SHALL NOT BE ENTITLED TO EXTRA PAYMENT OTHER THAN WHATEVER INCREASE IN CONTRACT QUANTITIES ARE INVOLVED.
- ANY REQUIRED PRIVATE UTILITY MAIN RELOCATION SHALL BE BY OTHERS. CONTRACTOR SHALL NOTIFY UTILITY COMPANIES TEN WORKING DAYS PRIOR TO BEGINNING CONSTRUCTION WHERE RELOCATION COORDINATION WITH PRIVATE UTILITY PROVIDER IS NECESSARY. CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING ALL SERVICES DURING CONSTRUCTION. ALL UTILITIES AND OTHER CONCERNED AGENCIES SHALL BE CONTACTED AT LEAST 4 DAYS IN ADVANCE, UNLESS OTHERWISE SPECIFIED, PRIOR TO CUTTING OR CLOSING STREETS OR OTHER TRAFFIC AREAS, EXCAVATING UNDERGROUND UTILITIES OR POLE LINES OR TEMPORARY SHUTDOWN OF EXISTING FACILITIES.
- ALL EXCESS EXCAVATION AND OTHER MATERIALS SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE HAULED AND LEGALLY DISPOSED OF BEYOND THE LIMITS OF THE PROJECT. EXCAVATION OF EXISTING AGGREGATE DRIVES SHALL BE INCLUDED UNDER "EXCAVATION AND EMBANKMENT" ITEM.
- ANY DAMAGE CAUSED BY CONTRACTOR TO ADJACENT ROADWAY OR PROPERTY SHALL BE REPAIRED TO EQUAL OR BETTER CONDITION THAN EXISTED PRIOR TO CONSTRUCTION BY CONTRACTOR AT CONTRACTOR'S EXPENSE.
- CONTRACTOR SHALL FINE GRADE ALL AREAS AFFECTED BY CONSTRUCTION TO PROVIDE POSITIVE DRAINAGE. ALL WORK SHALL BE IN A MANNER ACCEPTABLE TO THE OWNER.
- CONTRACTOR SHALL COORDINATE ALL UTILITY AND UTILITY POLE RELOCATIONS.
- MANUFACTURER OF PRECAST CATCH BASINS SHALL BE ON THE LADOTD QUALIFIED PRODUCTS LIST.
- ALL AREAS WITHIN R/W THAT ARE NOT COVERED WITH CONCRETE OR ASPHALT SHALL BE HYDRO-SEEDED. HYDRO-SEED SHALL MATCH ADJACENT EXISTING SOD SPECIES UNLESS DIRECTED OTHERWISE BY PROJECT ENGINEER. WATERING AND FERTILIZING SHALL BE IN ACCORDANCE WITH SPECIFICATION SECTION 02950 WITH ALL COSTS INCLUDED IN THE ACRE BID PRICE OF HYDRO-SEED.
- ALL SIGNS (REMOVED OR RELOCATED), DRAIN LINES, HEADWALLS AND OTHER ITEMS WITHOUT A DESIGNATED PAY ITEM THAT ARE SHOWN TO BE REMOVED SHALL BE DONE UNDER "REMOVAL OF STRUCTURES AND OBSTRUCTIONS" ITEM. ALL COSTS FOR BACKFILLING TRENCHES WITH GRANULAR MATERIAL AFTER DRAIN LINES OR BOXES HAVE BEEN REMOVED SHALL BE PAID UNDER REMOVAL ITEMS.
- ALL TREES, VEGETATION, AND DEBRIS WITHIN THE PROJECT LIMITS AND IN CONFLICT WITH PROPOSED CONSTRUCTION SHALL BE REMOVED UNDER CLEARING AND GRUBBING ITEM, PER LUMP SUM. BEFORE BEGINNING WORK ON REMOVAL OF ANY TREE, THE CONTRACTOR SHALL NOTIFY AND REVIEW THE TREE REMOVAL WITH THE PROJECT ENGINEER.
- COSTS FOR ALL WORK AND ASSOCIATED ITEMS OF WORK SHALL BE INCLUDED IN ONE OF THE BID ITEMS PROVIDED.
- GEOTEXTILE FABRIC REQUIRED UNDER ROADWAY BASE COURSE SHALL BE PAID UNDER "CLASS II BASE COURSE (12" THICK)", "6" STRUCTURAL FILL", AND "12" STRUCTURAL FILL".
- ALL SIGNS AND MAILBOXES THAT ARE IN CONFLICT WITH CONSTRUCTION THAT ARE TO REMAIN SHALL BE STORED AND REPLACED TO THEIR PROPER LOCATION BY THE CONTRACTOR UPON COMPLETION OF WORK AT NO DIRECT PAY. ANY PERMANENT SIGNS CONFLICTING WITH CONSTRUCTION SHALL BE RELOCATED BY CONTRACTOR. THIS RELOCATION SHALL BE COORDINATED WITH THE PROJECT ENGINEER.
- PRIOR TO CONSTRUCTING DRAINAGE STRUCTURES, CONTRACTOR SHALL COORDINATE WITH PROJECT ENGINEER TO EXCAVATE POTENTIAL CONFLICTS WITH SEWER SERVICE LINES AND OTHER UTILITIES. INCLUDED WITHIN THIS ITEM IS EXCAVATION, LOCATION OF UTILITY, INVERT ELEVATION OF UTILITY AND BACKFILL.
- ALL COSTS TO TIE IN EXISTING AND NEW DRAIN LINES TO REQUIRED DRAIN INLETS AND MANHOLES SHALL BE INCLUDED IN COST OF NEW DRAINAGE STRUCTURE.
- THE CONTRACTOR SHALL BE RESPONSIBLE TO ESTABLISH GRADES FOR SIDE ROADS AND DRIVEWAYS TO ACHIEVE POSITIVE SLOPE TO THE NEAREST CATCH BASINS. ALL TRANSITIONS SHALL BE DIRECTED BY THE PROJECT ENGINEER.
- CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING WITH THE RESPECTIVE UTILITY COMPANIES FOR ADJUSTMENT, REMOVAL OR RELOCATION OF THE EXISTING UTILITIES WHICH INTERFERE WITH THE WORK. ALL PRIVATELY OWNED UTILITY MANHOLES SHALL BE ADJUSTED BY THE UTILITY COMPANIES. THE CONTRACTOR SHALL ALLOW SUFFICIENT TIME TO PRIVATE UTILITY COMPANIES TO PERFORM THEIR WORK.
- ALL STRIPING AND SIGNING SHALL CONFORM TO THE MUTCD, PM-01, AND E.D.S.M. VI.4.1.I. 31. ALL STATIONS, LENGTHS, WIDTHS AND LOCATIONS OF THE REQUIRED CONSTRUCTION MAY BE ADJUSTED IN THE FIELD AS DEEMED NECESSARY BY THE ENGINEER.
- SAWCUTTING OF ASPHALT AND CONCRETE PAVEMENT SHALL BE FULL DEPTH.
- ALL EXCAVATION TO OBTAIN PROPER WIDTHS FOR TURNOUT AND ROADWAY WIDENING TO BE INCLUDED IN CONTRACTOR'S LUMP SUM BID FOR EXCAVATION AND EMBANKMENT. ALL CONCRETE DRIVEWAYS TO BE SAW CUT AS NECESSARY UNDER NO DIRECT PAYMENT.
- TRENCH PROTECTION FOR ALL SUBSURFACE UTILITIES SHALL BE IN ACCORDANCE WITH OSHA REGULATIONS.
- ALL WORK SHALL CONFORM WITH THE 2016 EDITION OF THE LA STANDARD SPECIFICATIONS FOR ROADS AND BRIDGES AND LATEST REVISIONS SHALL GOVERN. THIS DOCUMENT CAN BE DOWNLOADED FROM THE FOLLOWING WEB ADDRESS: <http://www.dotd.louisiana.gov/doclist.asp?ID=52>**

- UNDERGROUND UTILITIES SHOWN HEREON ARE APPROXIMATE PER INFORMATION PROVIDED. THE LOCATIONS OF UNDERGROUND AND OTHER NONVISIBLE UTILITIES SHOWN HAVE BEEN DETERMINED FROM DATA EITHER FURNISHED BY THE AGENCIES CONTROLLING SUCH DATA AND/OR EXTRACTED FROM RECORDS MADE AVAILABLE TO US BY AGENCIES CONTROLLING SUCH RECORDS. WHERE FOUND, THE SURFACE FEATURES OF LOCATIONS ARE SHOWN. THE ACTUAL NONVISIBLE LOCATIONS MAY VARY FROM THOSE SHOWN. EACH AGENCY SHOULD BE CONTACTED RELATIVE TO THE PRECISE LOCATION OF ITS UNDERGROUND INSTALLATION PRIOR TO ANY RELIANCE UPON THE ACCURACY OF SUCH LOCATIONS SHOWN. PRIOR TO EXCAVATING THE CONTRACTOR SHALL CALL LOUISIANA ONE CALL (1-800-273-3020) TO MARK THE CONSTRUCTION AREA. CONTRACTOR SHALL COORDINATE WITH UTILITY COMPANIES FOR EXACT LOCATION AND DEPTH BEFORE CONSTRUCTION.
- ALL EQUIPMENT AND MATERIALS HAULED TO OR FROM THE CONSTRUCTION SITE WILL BE BY A ROUTE APPROVED OR DESIGNATED BY THE ST. TAMMANY PARISH ENGINEERING DEPT., PRIOR TO THE START OF CONSTRUCTION.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR LAYING OUT THE WORK AND VERIFYING ALL MEASUREMENTS AND GRADES PRIOR TO BEGINNING OF CONSTRUCTION. PROJECT VERTICAL AND HORIZONTAL CONTROLS HAVE BEEN INDICATED ON THE PLANS. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO ESTABLISH OFFSETS FROM BASE LINE AND ADDITIONAL T.B.M.s FOR CONSTRUCTION PURPOSES, FROM THE PROJECT MONUMENTS/NAILS/CROSS CUTS ETC., WITHIN THE PROJECT AREA.
- ANY CONFLICTS BETWEEN EXISTING UTILITIES AND PROPOSED IMPROVEMENTS SHOULD BE REPORTED TO THE PROJECT ENGINEER. CONTRACTOR SHALL COORDINATE ALL ASSOCIATED WORK WITH PRIVATE UTILITY COMPANIES.
- CONTRACTOR SHALL MAINTAIN SUBSURFACE AND OVERLAND DRAINAGE WITHIN THE PROJECT AREA DURING CONSTRUCTION. (NO DIRECT PAYMENT)
- CONTRACTOR SHALL BE RESPONSIBLE FOR HOUSEKEEPING OF THE PROJECT SITE AND ALL ACCESS ROADS ON A DAILY BASIS AND SHALL KEEP THE AREA CLEAN AND FREE OF ALL TRASH AND DEBRIS. (NO DIRECT PAYMENT)
- THE CONTRACTOR SHALL NOT SCALE THE DRAWINGS FOR CONSTRUCTION PURPOSES.
- CONTRACTOR SHALL TAKE ALL PRECAUTIONS TO MINIMIZE DAMAGE TO EXISTING INFRASTRUCTURE AS CONTRACTOR WILL BE LIABLE FOR DAMAGES RESULTING FROM CONSTRUCTION ACTIVITIES. ALL COSTS FOR ANTICIPATED AND UNFORESEEN CONSEQUENTIAL DAMAGES RESULTING FROM THESE ACTIVITIES SHALL BE INCLUDED IN ASSOCIATED ITEMS OF WORK.
- FINISHED GRADE OF SHARED USE PATH MAY BE ADJUSTED BY ENGINEER TO ACCOMMODATE FIELD CONDITIONS.
- THE CONTRACTOR SHALL CONTACT THE FOLLOWING ENTITIES AT LEAST FOUR (4) WORKING DAYS PRIOR TO BEGINNING OF CONSTRUCTION:

ST. TAMMANY PARISH ENGINEERING:	MR. CHRIS CORVERS	(985) 898-2552.
TAMMANY UTILITIES :	MR. TODD TORREGANO	(985) 727-9377 (ofc.) (985) 966-3816 (cell)
AT&T :	CALL "LA. ONE CALL" 96 HOURS PRIOR TO CONSTRUCTION TO HAVE LINES MARKED. IF ANY QUESTIONS, CALL MR. WAYNE STEIN AT (985)327-6428 (ofc.).	
CHARTER COMMUNICATIONS:	MR. KEVIN DAVID	(985) 626-8426.
ATMOS ENERGY:	MS. OLENE WHIDDON	(985) 276-6023Ext.19 (985) 807-4417 (cell)
CLECO	MR. TAYLOR CREECH	(985) 867-4635
UTILITIES INC:	MR. ALEX WILLIAMS	(985) 893-5772
LOUISIANA ONE CALL:		1-800-272-3020

**CONTRACTOR SHALL PERFORM AT LEAST 50 PERCENT OF THE TOTAL CONTRACT AMOUNT AS ESTABLISHED IN THE BID WITH THE CONTRACTOR'S OWN ORGANIZATION.**

# TRAFFIC CONTROL NOTES

- THE CONTRACTOR'S OPERATION SHALL BE DONE IN SUCH A MANNER AS TO CAUSE THE LEAST POSSIBLE INTERFERENCE WITH TRAFFIC.
- ANY WORK IN THE ROADWAY OR ADJACENT TO THE ROADWAY WITHIN LA 1077 RIGHT OF WAY CAUSING AN INTERFERENCE TO VEHICULAR TRAFFIC REQUIRES PRIOR NOTIFICATION TO THE LADOTD DISTRICT 62 TRAFFIC ENGINEER AND THE ST. TAMMANY PARISH TRAFFIC ENGINEER. CONTACT MS. CRISTINE GOWLAND AT 985-375-0105 AND MR. JAY WATSON AT 985-809-7448.
- TWO LANES OF TRAFFIC ALONG LA 1077 (ONE LANE IN EACH DIRECTION) MUST BE MAINTAINED BETWEEN THE HOURS OF 6AM AND 8PM DAILY. FURTHERMORE, THE CONTRACTOR SHALL MINIMIZE TRAFFIC DELAYS CAUSED BY CONSTRUCTION DURING PEAK TRAFFIC OF ARCHBISHOP HANNAN HIGH SCHOOL. PEAK TRAFFIC TIMES ARE AS FOLLOWS:
  - A) SCHOOL YEAR: 7:15AM-8:15AM AND 2:30PM-4:00PM
  - B) SUMMER (ONLY DURING SCHOOL ACTIVITIES): 7:30AM-8:00AM AND 3:00PM-4:00PM
- TEMPORARY DETOURING, CONSTRUCTION SEQUENCING, TEMPORARY SIGNS AND BARRICADES, AND TRENCH PROTECTION FOR WORKERS, PEDESTRIANS AND VEHICLES SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
- DURING WORKING HOURS, CONTRACTOR OPERATIONS SHALL BE DONE IN ACCORDANCE WITH LADOTD STANDARD PLANS TTC-00(A-D), TTC-02 AND TTC-04.
- CONTRACTOR SHALL DEVELOP TEMPORARY TRAFFIC CONTROL PLANS FOR WORK ON LA 1077 AND EXISTING OCHSNER BLVD. ROUNDABOUT. PLANS SHALL BE SUBMITTED FOR REVIEW TO PROJECT ENGINEER, LADOTD AND ST. TAMMANY PARISH FOR THEIR APPROVALS. QUANTITIES FOR TEMPORARY TRAFFIC STRIPING HAVE BEEN PROVIDED FOR USE IN CONTRACTOR'S TEMPORARY TRAFFIC CONTROL PLANS. TEMPORARY TRAFFIC CONTROL PLANS SHALL BE IN ACCORDANCE WITH MUTCD, LADOTD STANDARD PLANS, SPECIFICATIONS AND EDMS, AND ST. TAMMANY PARISH ORDINANCES. ALL OTHER COSTS INVOLVED IN THIS ITEM OF WORK SHALL BE INCLUDED IN THE LUMP SUM BID PRICE FOR TEMPORARY SIGNS AND BARRICADES.

# EROSION AND SEDIMENT CONTROL NOTES

- EROSION AND SEDIMENT CONTROL ITEMS SHALL BE INSTALLED BEFORE GRADING OPERATIONS AND SHALL BE MAINTAINED THROUGH THE COMPLETION OF THE PROJECT.
- SILT FENCES SHALL BE CLEANED OR REPLACED WHEN SILT DEPOSITION HAS REACHED THE HALF WAY POINT OF THE FENCE HEIGHT.
- ALL DRAIN INLETS, CATCH BASINS, OR PIPE INLETS SHALL BE PROTECTED AGAINST SILT TRANSPORT WITH SILT FENCES OR HAY BALES. PROPERLY INSTALLED SILT FENCE IS PREFERRED OVER HAY BALES.
- EROSION AND SEDIMENT CONTROL ITEMS SHALL BE INSPECTED WEEKLY AND AFTER EACH RAINFALL AND REPAIRED OR REPLACED AT NO ADDITIONAL COST TO THE OWNER.
- THE CONTROL MEASURES SHOWN MAY NEED TO BE ADJUSTED TO FIT THE FIELD CONDITIONS. ADDITIONAL DEVICES MAY ALSO BE NECESSARY FOR ADEQUATE EROSION AND SEDIMENT CONTROL OR AS DEEMED NECESSARY BY GOVERNING AUTHORITIES.
- EROSION AND SEDIMENT CONTROL MEASURES SHOWN ON THIS SHEET MAY REQUIRE MODIFICATION ACCORDING TO FIELD CONDITIONS DURING CONSTRUCTION TO MINIMIZE SEDIMENTATION TRANSPORT OFFSITE.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR PREPARING AND ABIDING BY THE STORM WATER POLLUTION PREVENTION PLAN (SWPPP) AND OBTAINING AND MAINTAINING A LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY STORM WATER GENERAL PERMIT FOR CONSTRUCTION ACTIVITIES.
- SEEDING OPERATIONS OF ALL DISTURBED AREAS SHALL COMMENCE AS SOON AS POSSIBLE UPON COMPLETION OF THE FINAL GRADING OPERATIONS, AND SHALL BE IN ACCORDANCE TO LADOTD STANDARD SPECIFICATIONS FOR ROADS AND BRIDGES (SECTION 717 AND 718), 2016 EDITION, AND LATEST REVISIONS, OR AS AMENDED IN THE PROJECT SPECIFICATIONS.
- SILT FENCING MAY BE RELOCATED AS NECESSARY TO ACCOMMODATE CONSTRUCTION OPERATIONS.
- CONTRACTOR SHALL PERIODICALLY FLUSH SILT FROM DRAIN LINES DURING PROCESS OF CONSTRUCTION AND A FINAL FLUSH AT TIME OF FINAL ACCEPTANCE.



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DESIGNED	ATL	CHECKED	FJZ	DATE	04/29/21
DRAWN	ATL	CHECKED	FJZ	DATE	04/29/21
IN CHARGE	ATL	CHECKED	FJZ	DATE	04/29/21
PROJECT ENGINEER	ATL	CHECKED	FJZ	DATE	04/29/21
NO.	1	DATE	04/29/21	BY	
REVISION DESCRIPTION					

**GENERAL NOTES**  
LA 1077/LA 21 CONNECTOR ROAD

Project Number:  
RCLC No: 714-08



04/29/2021  
Sheet Number:  
**2r**

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# BASE BID

ITEM	DESCRIPTION	UNIT	QUANTITY
201-01-00100	CLEARING AND GRUBBING	LUMP SUM	1
202-01-00100	REMOVAL OF STRUCTURES AND OBSTRUCTIONS	LUMP SUM	1
202-02-00030	REMOVAL OF 8" WATERLINE	LN FT	260
202-02-06140	REMOVAL OF CURBS (CONCRETE)	LN FT	596.0
202-02-32500	REMOVAL OF PORTLAND CEMENT CONCRETE PAVEMENT	SQ YD	57.5
203-05-00100	EXCAVATION AND EMBANKMENT	LUMP SUM	1
204-02-00100	TEMPORARY HAY OR STRAW BALES	EACH	465
204-06-00100	TEMPORARY SILT FENCING	LN FT	23,024
302-02-06121	CLASS II BASE COURSE (12" THICK)(LA 1077)	SQ YD	3,361.8
502-01-00100-A	SUPERPAVE ASPHALT CONCRETE (LA 1077)	TON	2,249.4
509-01-00100	MILLING ASPHALT PAVEMENT (12" THICK)	SQ YD	4,496.3
601-01-00100-A	PORTLAND CEMENT CONCRETE PAVEMENT (8" THICK)(CONNECTOR ROAD)	SQ YD	55,546.9
601-01-00100-B	PORTLAND CEMENT CONCRETE PAVEMENT (8" THICK)(ROUNDAABOUT)	SQ YD	917.0
701-03-01002	STORM DRAIN PIPE (15" RCP)	LN FT	48
701-03-01022	STORM DRAIN PIPE (18" RCP)	LN FT	415
701-03-01042	STORM DRAIN PIPE (24" RCP)	LN FT	184
701-04-01000	STORM DRAIN PIPE ARCH (15" EQUIV. RCPA)	LN FT	651
701-04-01020	STORM DRAIN PIPE ARCH (18" EQUIV. RCPA)	LN FT	465
701-04-01060	STORM DRAIN PIPE ARCH (30" EQUIV. RCPA)	LN FT	216
701-04-01080	STORM DRAIN PIPE ARCH (36" EQUIV. RCPA)	LN FT	1,060
701-04-01100	STORM DRAIN PIPE ARCH (42" EQUIV. RCPA)	LN FT	264
701-04-01120	STORM DRAIN PIPE ARCH (48" EQUIV. RCPA)	LN FT	96
701-04-01160	STORM DRAIN PIPE ARCH (60" EQUIV. RCPA)	LN FT	595
701-13-01140	CORRUGATED METAL PIPE ARCH (EXTENSION)(54" EQUIV.)	LN FT	20
702-02-00200	MANHOLES (R-CB-11)	EACH	1
702-03-00100	CATCH BASINS (CB-01)	EACH	2
702-04-00200	ADJUSTING CATCH BASINS	EACH	2
702-06-01000	SIDE DRAIN END TREATMENT (1 BARREL, 18" RCP)	EACH	2
702-06-01020	SIDE DRAIN END TREATMENT (1 BARREL, 24" RCP)	EACH	2
702-06-01060	SIDE DRAIN END TREATMENT (1 BARREL, 30" EQUIV. RCPA)	EACH	1
702-06-01100	SIDE DRAIN END TREATMENT (1 BARREL, 36" EQUIV. RCPA)	EACH	1
706-01-00200	CONCRETE WALK (5" THICK)	SQ YD	11,675.9
706-03-00300	INCIDENTAL CONCRETE PAVING (6" THICK)	SQ YD	449.2
706-03-10000	INCIDENTAL CONCRETE PAVING (COLORED)(6" THICK)	SQ YD	1,387.4
707-01-00200-A	CONCRETE BARRIER CURB (CONNECTOR ROAD)	LN FT	20,003.1
707-01-00200-B	CONCRETE BARRIER CURB (ROUNDAABOUT)	LN FT	453.4
707-01-00300	CONCRETE MOUNTABLE CURB	LN FT	2,810.8
707-01-00300-A	CONCRETE MOUNTABLE CURB (CONNECTOR ROAD)	LN FT	96.0
711-01-02020	RIPRAP (10 LB, 12" THICK)	SQ YD	355
711-01-03000	RIPRAP (30 LB, 14" THICK)	SQ YD	564
713-01-00100	TEMPORARY SIGNS AND BARRICADES	LUMP SUM	1
713-02-00100	TEMPORARY PAVEMENT MARKINGS (4" WIDTH)	LN FT	20,175
727-01-00100	MOBILIZATION	LUMP SUM	1
729-01-00100	SIGN (TYPE A)	SQ FT	134.2
729-02-00100	SIGN (TYPE B)	SQ FT	41.0
729-21-00100	U-CHANNEL POST	EACH	22
731-02-00100	REFLECTORIZED RAISED PAVEMENT MARKERS	EACH	600
731-03-00100	REMOVAL OF RAISED PAVEMENT MARKERS	MILE	0.098
732-01-02060	PLASTIC PVMT STRIP (SOLID LINE) (12" W) (THERMO 125 MIL)	MILE	0.067
732-01-02080	PLASTIC PVMT STRIP (SOLID LINE) (24" W) (THERMO 125 MIL)	MILE	0.196
732-02-02000	PLASTIC PVMT STRIP (SOLID LINE) (4" W) (THERMO 90 MIL)	MILE	9.933
732-02-02040	PLASTIC PVMT STRIP (SOLID LINE) (8" W) (THERMO 90 MIL)	MILE	0.286
732-03-02000	PLASTIC PVMT STRIP (BRKN LINE) (4" W) (THERMO 90 MIL)	MILE	4.102
732-03-02040	PLASTIC PVMT STRIP (DOTTED LINE) (8" W) (THERMO 90 MIL)	MILE	0.271
732-03-02050	PLASTIC PVMT STRIP (DOTTED LINE) (12" W)(2' L)(THERMO 90 MIL)	MILE	0.019
732-03-02070	PLASTIC PVMT STRIP (DOTTED LINE) (24" W)(2' L)(THERMO 90 MIL)	MILE	0.041
732-04-01020	PLASTIC PAVEMENT LEGENDS AND SYMBOLS (ARROW-STRAIGHT)	EACH	3
732-04-01040	PLASTIC PAVEMENT LEGENDS AND SYMBOLS (ARROW-DBL)	EACH	3
732-04-01080	PLASTIC PVMT LEGENDS AND SYMBOLS (ARROW - LT TURN)	EACH	3
732-04-01100	PLASTIC PVMT LEGENDS AND SYMBOLS (ARROW - RT TURN)	EACH	5

# BASE BID (CONTINUED)

ITEM	DESCRIPTION	UNIT	QUANTITY
732-04-01131	PLASTIC PAVEMENT LEGENDS AND SYMBOLS (DIR ARR RNDDBT-FSHK)(TYPE LTC)	EACH	2
732-04-01132	PLASTIC PAVEMENT LEGENDS AND SYMBOLS (DIR ARR RNDDBT-FSHK)(TYPE TRC)	EACH	1
732-04-01133	PLASTIC PAVEMENT LEGENDS AND SYMBOLS (DIR ARR RNDDBT-FSHK)(TYPE LC)	EACH	1
732-04-01134	PLASTIC PAVEMENT LEGENDS AND SYMBOLS (DIR ARR RNDDBT-FSHK)(TYPE TC)	EACH	2
732-04-15020	PLASTIC PVMT LEGENDS AND SYMBOLS (ONLY)	EACH	4
732-05-00100	REMOVAL OF EXISTING MARKINGS	MILE	0.688
737-05-00001	PAINTED CURBS AND ISLANDS	LN FT	338.4
739-01-00100	HYDRO-SEEDING	ACRE	18.77
740-01-00100	CONSTRUCTION LAYOUT	LUMP SUM	1
741-01-01120	WATER MAIN (10" HDPE)	LN FT	260
741-02-00600	GATE VALVE (12")	EACH	4
741-03-00500	TAPPING SLEEVE AND VALVE ASSEMBLY (8")	EACH	2
NS-600-00220	SAW CUTTING PORTLAND CEMENT CONCRETE PAVEMENT	IN-FT	1,384.8
NS-713-00008	PORTABLE CHANGEABLE MESSAGE SIGN	EACH	4
S-001	6" THICK STRUCTURAL FILL (SHARED USE PATH)	CU YD	2,141.9
S-002-A	12" THICK STRUCTURAL FILL (CONNECTOR ROAD)	CU YD	20,037.7
S-003	12" THICK STRUCTURAL FILL (ROUNDAABOUT)	CU YD	322.0
S-004	OUTFALL DITCH EXCAVATION	LN FT	1,449
S-005	CONSTRUCTION MATERIALS TESTING	LUMP SUM	1
S-006	ENVIRONMENTAL PROTECTION	LUMP SUM	1
S-007	EXCAVATION AND REPLACEMENT OF UNSUITABLE MATERIAL	CU YD	8,175.3
S-008	PLUG AND ABANDON EXISTING WATER WELL	EACH	1
S-009-A	JUNCTION BOX TYPE 1	EACH	3
S-009-B	JUNCTION BOX TYPE 2	EACH	1
S-009-C	JUNCTION BOX TYPE 3	EACH	3
S-009-D	JUNCTION BOX TYPE 4	EACH	1
S-009-E	24"X 24" STACK DRAIN INLET	EACH	3
S-010	AS-BUILT SURVEY AND PLAN	LUMP SUM	1

# ALTERNATE NO. 1

ITEM	DESCRIPTION	UNIT	QUANTITY
502-01-00100-B	SUPERPAVE ASPHALT CONCRETE (CONNECTOR ROAD)	TON	15,605.9
707-03-00100	COMBINATION CURB & GUTTER (CONNECTOR ROAD)	LN FT	20,099.1
S-002-B	12" THICK STRUCTURAL FILL (CONNECTOR ROAD)	CU YD	21,543.8
S-011	5" THICK FULL-DEPTH ASPHALT CONCRETE BASE COURSE (CONNECTOR ROAD)	SQ YD	56,748.7
601-01-00100-A	PORTLAND CEMENT CONCRETE PAVEMENT (8" THICK)(CONNECTOR ROAD)	SQ YD	-55,546.9
707-01-00200-A	CONCRETE BARRIER CURB (CONNECTOR ROAD)	LN FT	-20,003.1
707-01-00300-A	CONCRETE MOUNTABLE CURB (CONNECTOR ROAD)	LN FT	-96.0
S-002-A	12" THICK STRUCTURAL FILL (CONNECTOR ROAD)	CU YD	-20,037.7

SEE SHEET 3a FOR NOTES PERTAINING TO THE ITEMS ABOVE.



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985-727-4444  
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DESIGNED	ATL	DATE	04/29/21
CHECKED	FJZ	DATE	
REVIEWED	LEW	DATE	
APPROVED	FJZ	DATE	
DATE	04/29/21	SHEET	3
NO.		DATE	
REVISION	DESCRIPTION	BY	

**SUMMARY OF QUANTITIES**  
LA 1077/LA 21 CONNECTOR ROAD

Project Number:  
RCLC No: 714-08



04/29/2021  
Sheet Number:  
**3**

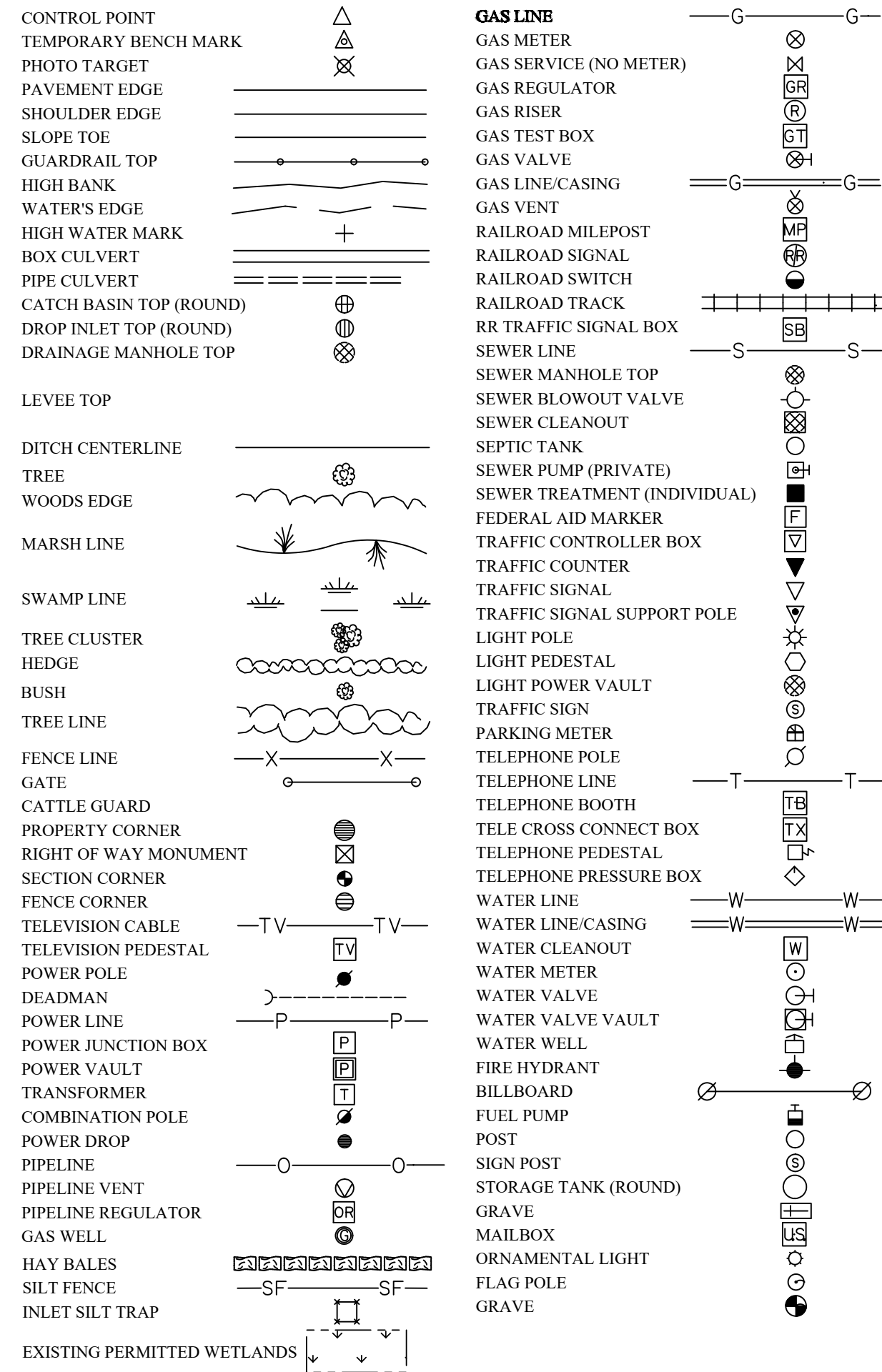
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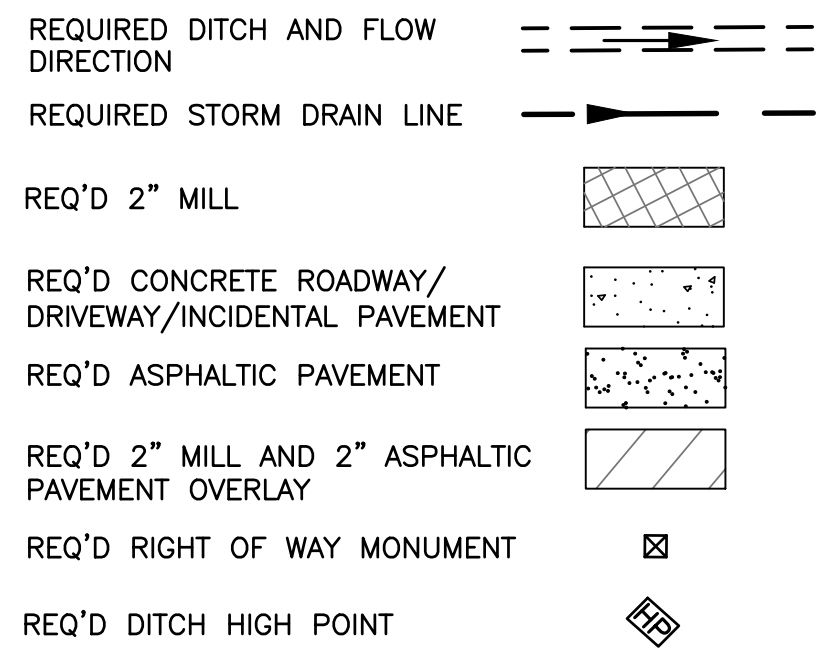




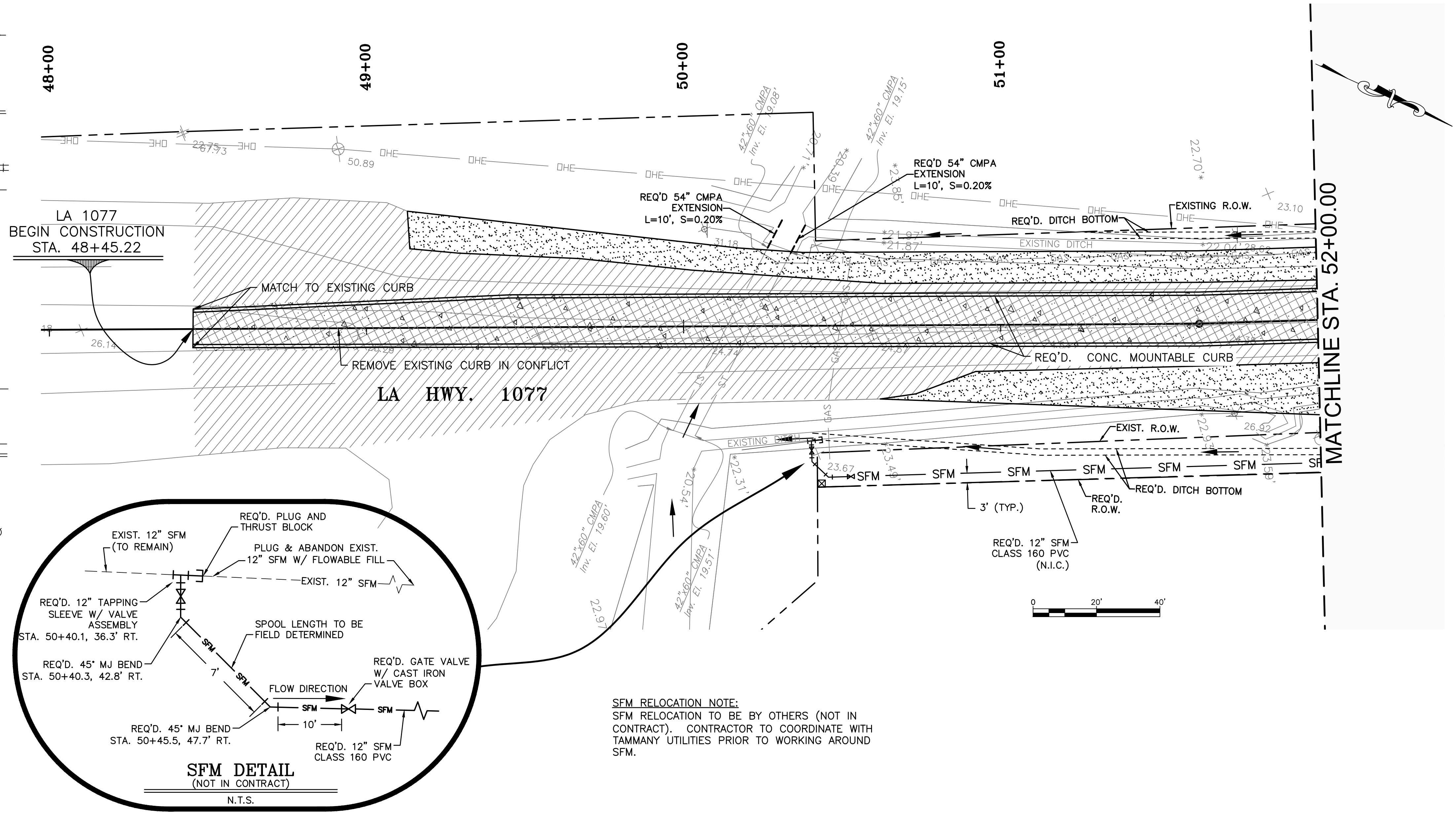
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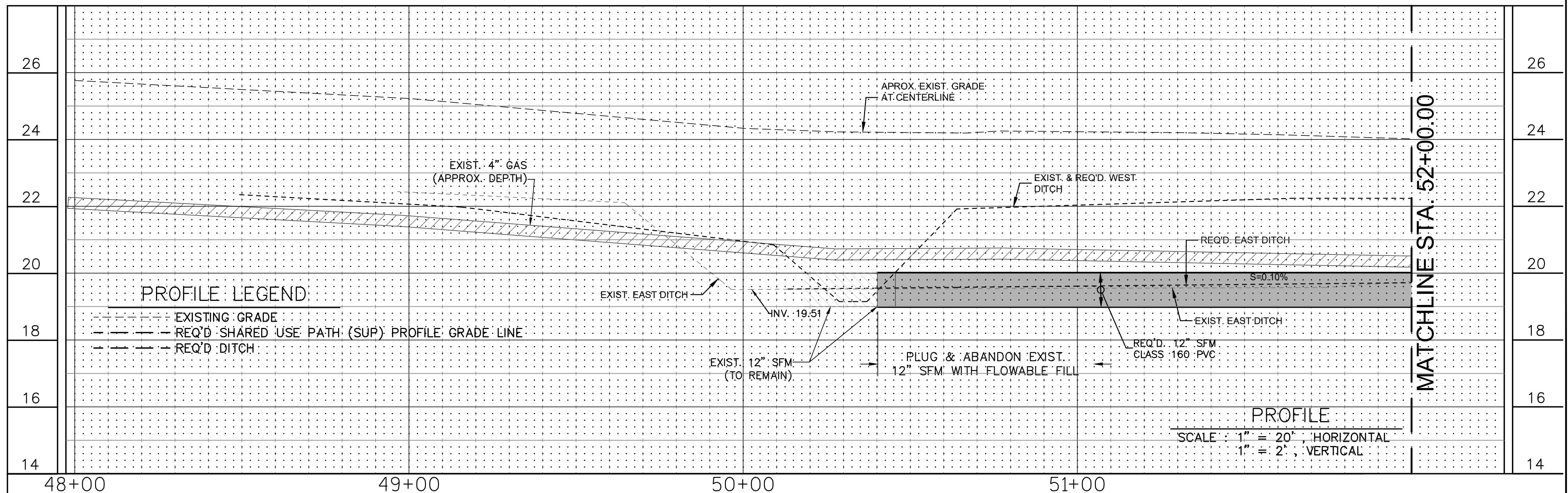
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**NOTE**  
THE CONTRACTOR'S ATTENTION IS CALLED TO THE PRESENCE OF OVERHEAD AND UNDERGROUND POWER LINES, UNDERGROUND GAS, AND COMMUNICATION LINES THROUGHOUT THE PROJECT. THE CONTRACTOR IS RESPONSIBLE FOR PROJECT SAFETY AND COORDINATING HIS OPERATIONS WITH ALL UTILITY COMPANIES.



**SFM RELOCATION NOTE:**  
SFM RELOCATION TO BE BY OTHERS (NOT IN CONTRACT). CONTRACTOR TO COORDINATE WITH TAMMANY UTILITIES PRIOR TO WORKING AROUND SFM.



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985-727-4444  
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DESIGNED	ATL	NO.	DATE	BY
CHECKED	FJZ			
DETAILED	LBW			
CHECKED	FJZ			
DATE	04/29/21			
SHEET	4			

**PLAN & PROFILE**  
**LA 1077**  
**50+00.00 TO 52+00.00**  
LA 1077/LA 21 CONNECTOR ROAD

Project Number:  
RCLC No: 714-08



04/29/2021  
Sheet Number:  
**4**

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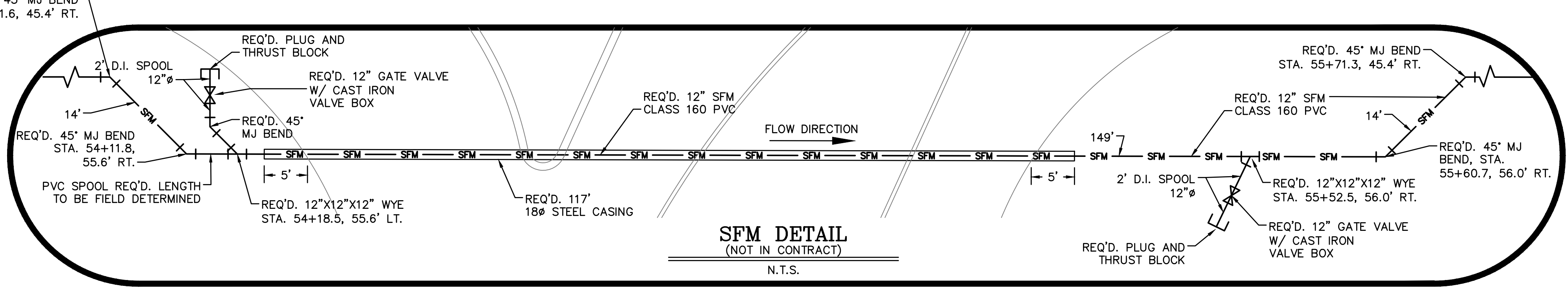
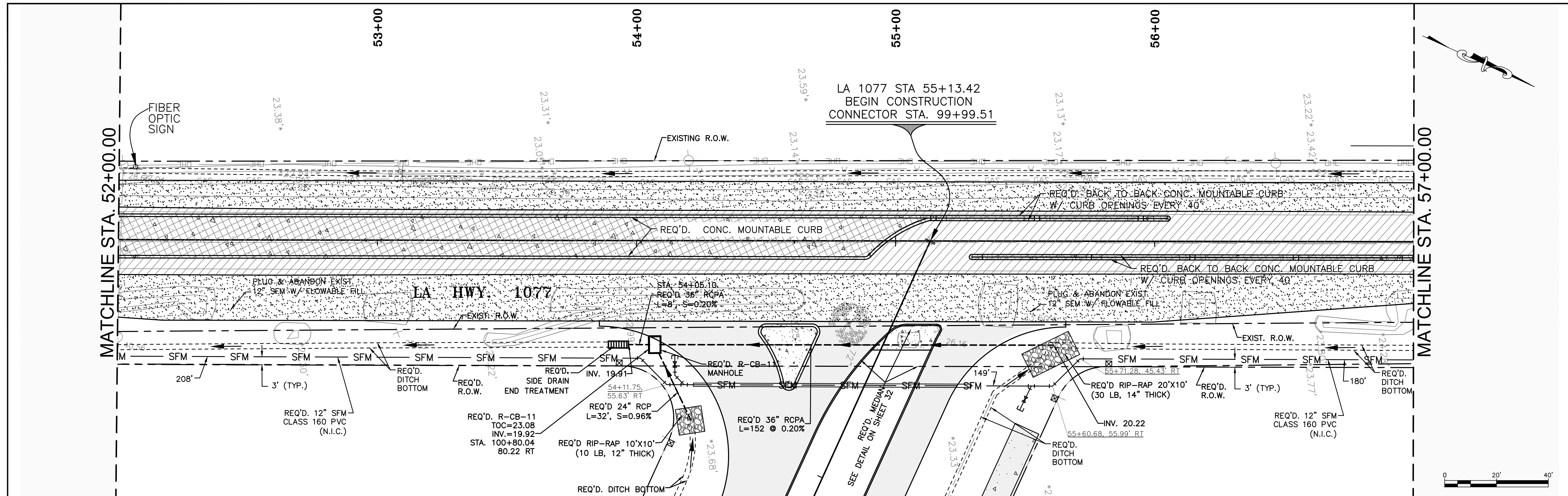


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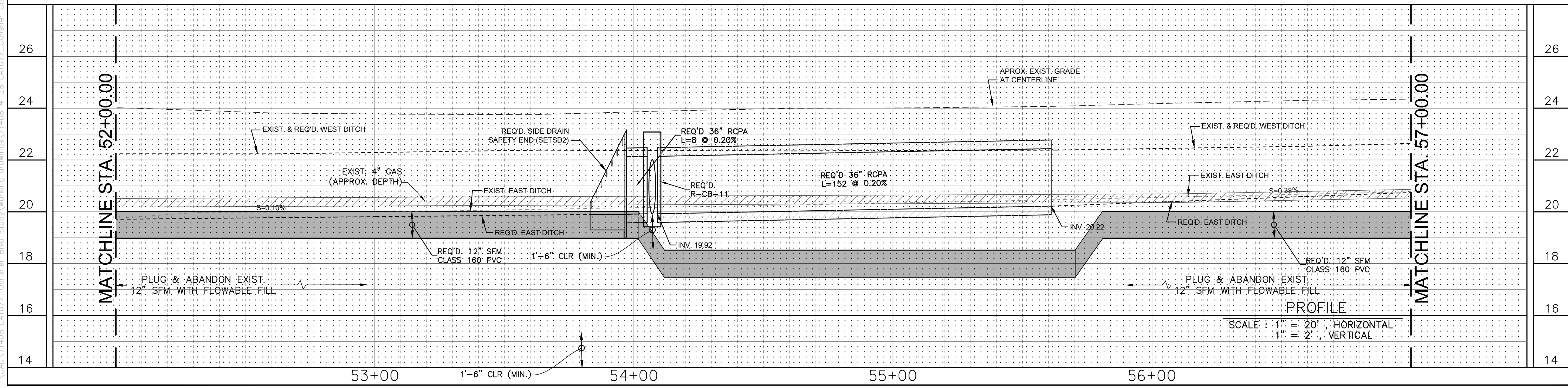
NO.	DATE	REVISION DESCRIPTION

**PLAN & PROFILE**  
**LA 1077**  
**52+00.00 TO 57+00.00**  
LA 1077/LA 21 CONNECTOR ROAD

Project Number:  
RCLC No: 714-08



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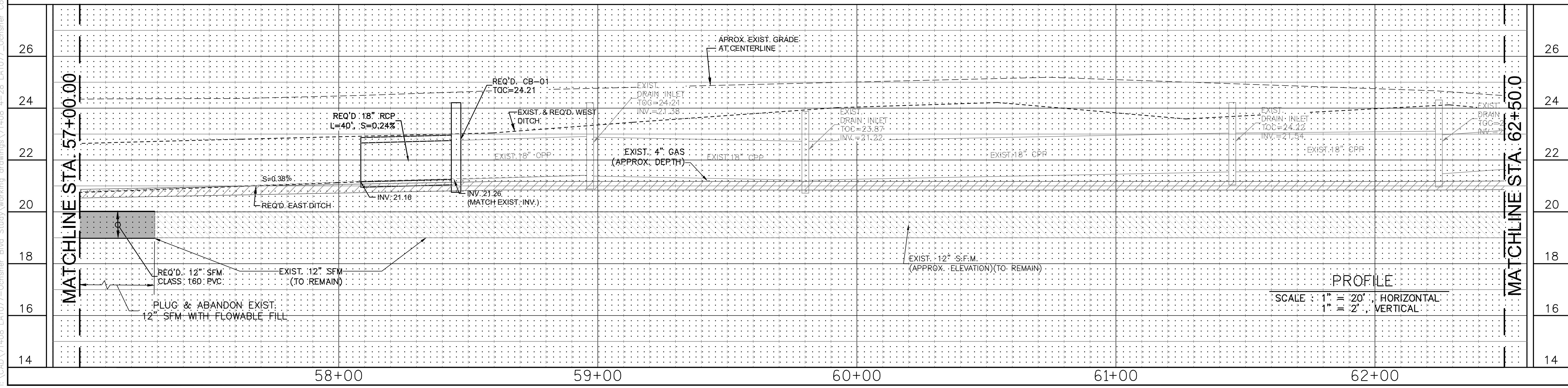
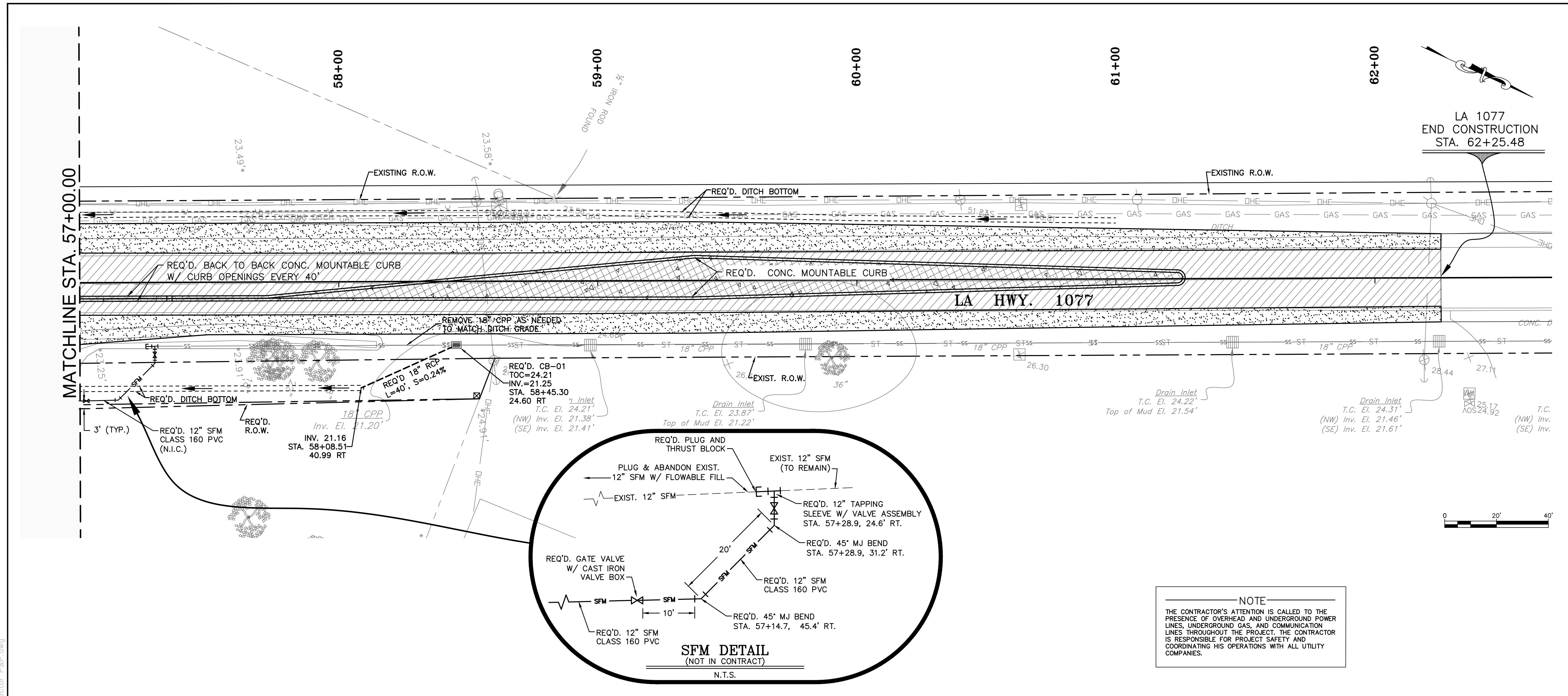
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DETAILED	LBW			
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DATE	04/29/21			
SHEET	6			

**PLAN & PROFILE**  
**LA 1077**  
**57+00.00 TO 62+00.00**  
LA 1077/LA 21 CONNECTOR ROAD

Project Number:  
RCLC No: 714-08



Sheet Number:  
**6**



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DATE	04/29/21	
SHEET		7

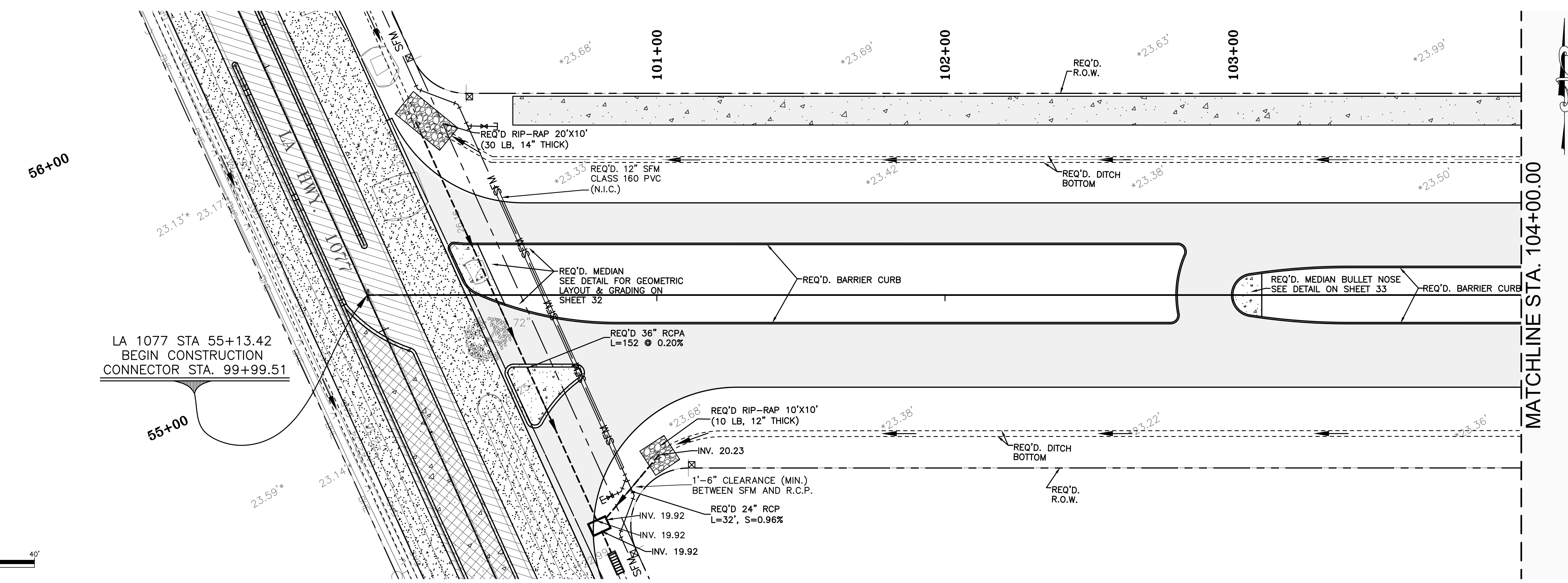
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**PLAN & PROFILE**  
**LA 1077 CONNECTOR**  
**100+00.00 TO 104+00.00**  
LA 1077/LA 21 CONNECTOR ROAD

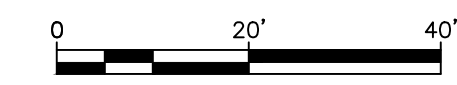
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RCLC No: 714-08



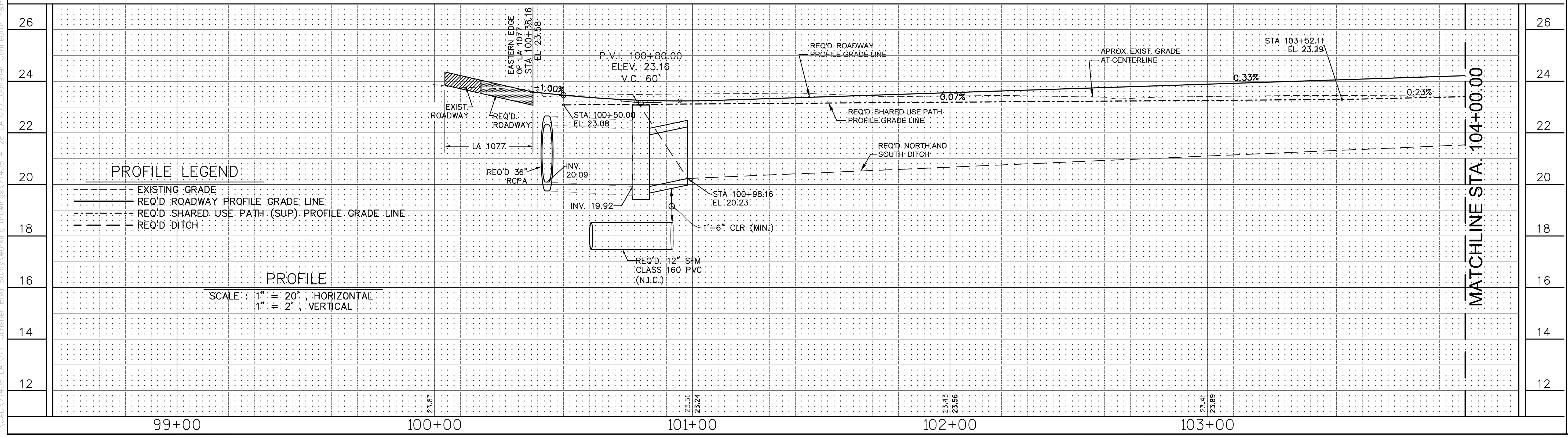
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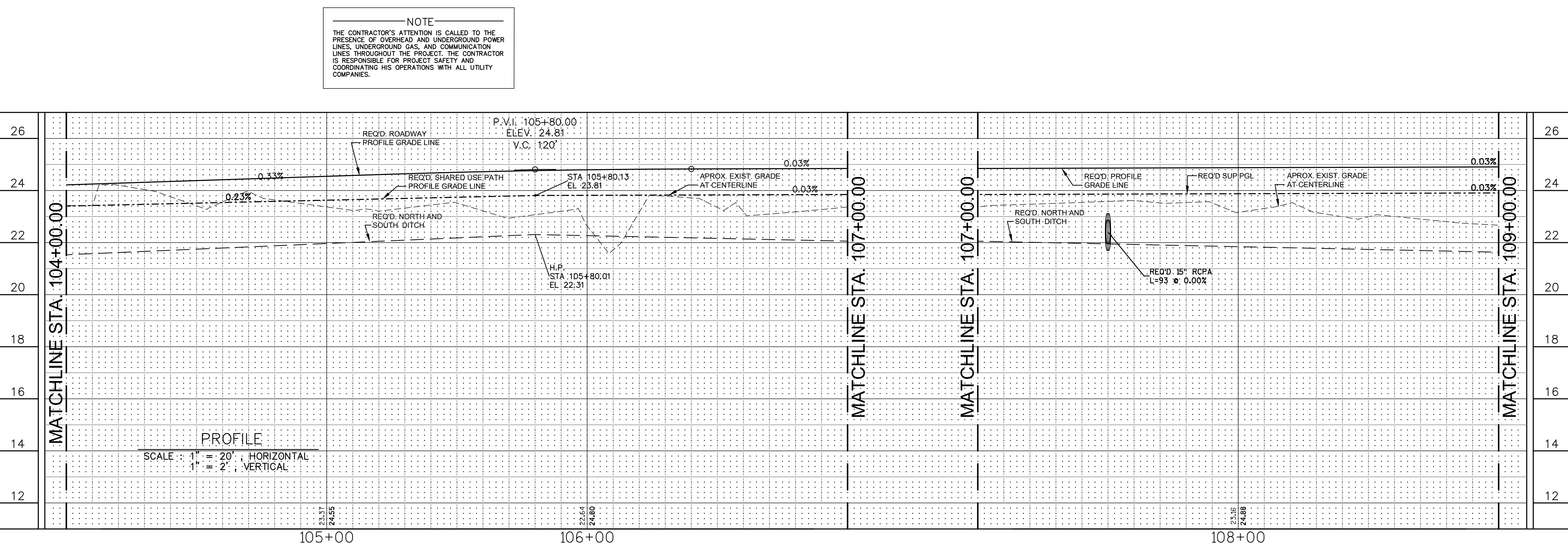
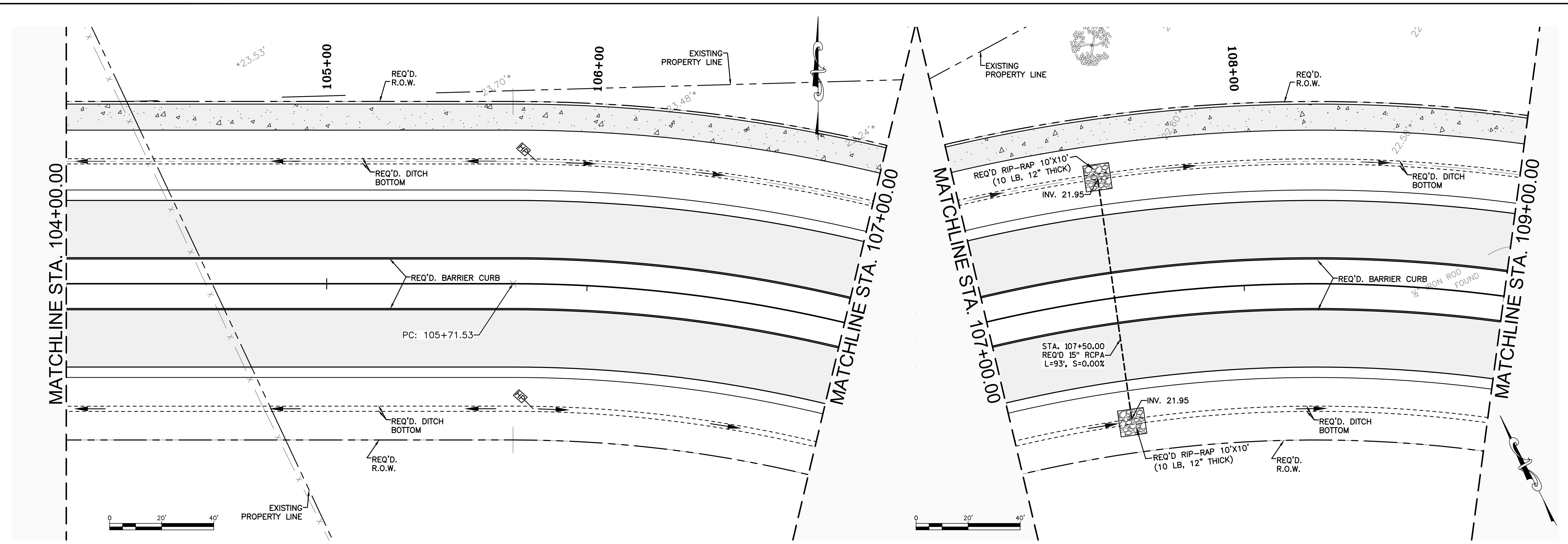


**PROFILE LEGEND**  
 - - - - - EXISTING GRADE  
 ———— REQ'D. ROADWAY PROFILE GRADE LINE  
 - - - - - REQ'D. SHARED USE PATH (SUP) PROFILE GRADE LINE  
 - - - - - REQ'D. DITCH

**PROFILE**  
 SCALE: 1" = 20', HORIZONTAL  
 1" = 2', VERTICAL



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DESIGNED	ATL
CHECKED	FJZ
DETAILED	LBW
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DATE	04/29/21
SHEET	8

NO.	DATE	BY	REVISION DESCRIPTION

**PLAN & PROFILE**  
**LA 1077 CONNECTOR**  
**104+00.00 TO 109+00.00**  
LA 1077/LA 21 CONNECTOR ROAD

Project Number:  
RCLC No: 714-08



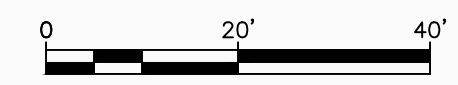
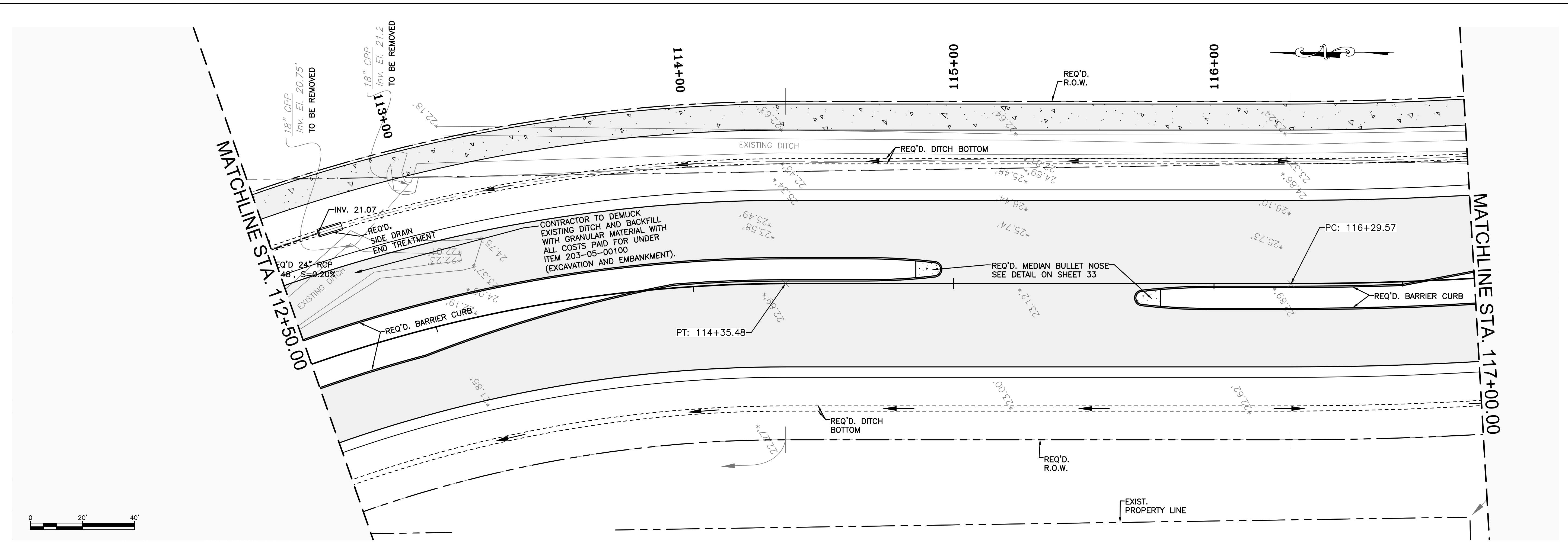
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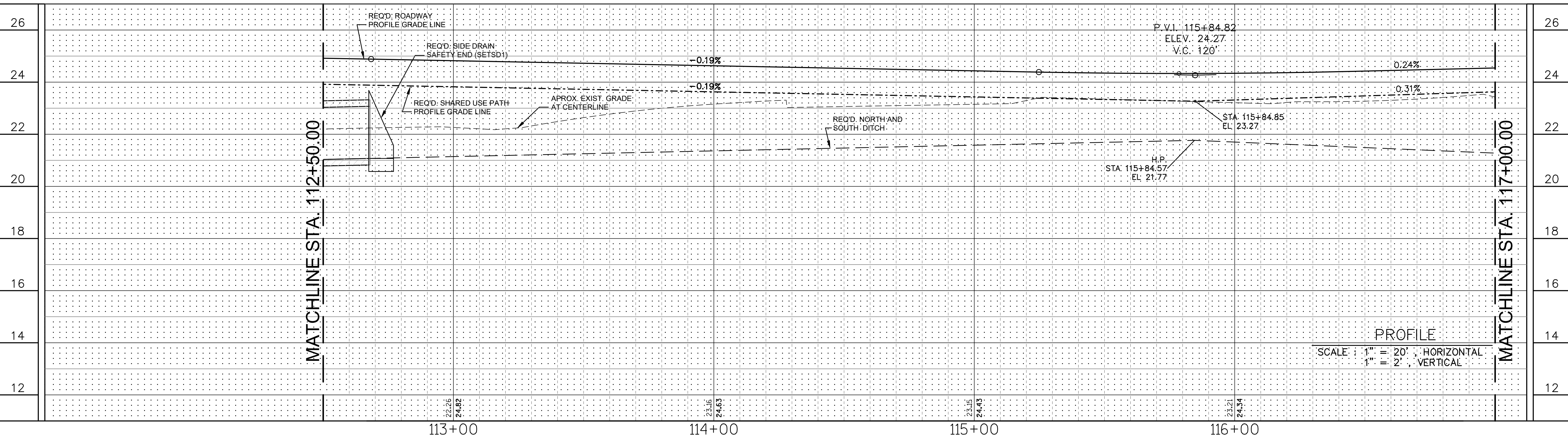




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REVISION DESCRIPTION						

**PLAN & PROFILE**  
**LA 1077 CONNECTOR**  
**112+50.00 TO 117+00.00**  
 LA 1077/LA 21 CONNECTOR ROAD

Project Number:  
 RCLC No: 714-08



04/29/2021  
 Sheet Number:  
**10**



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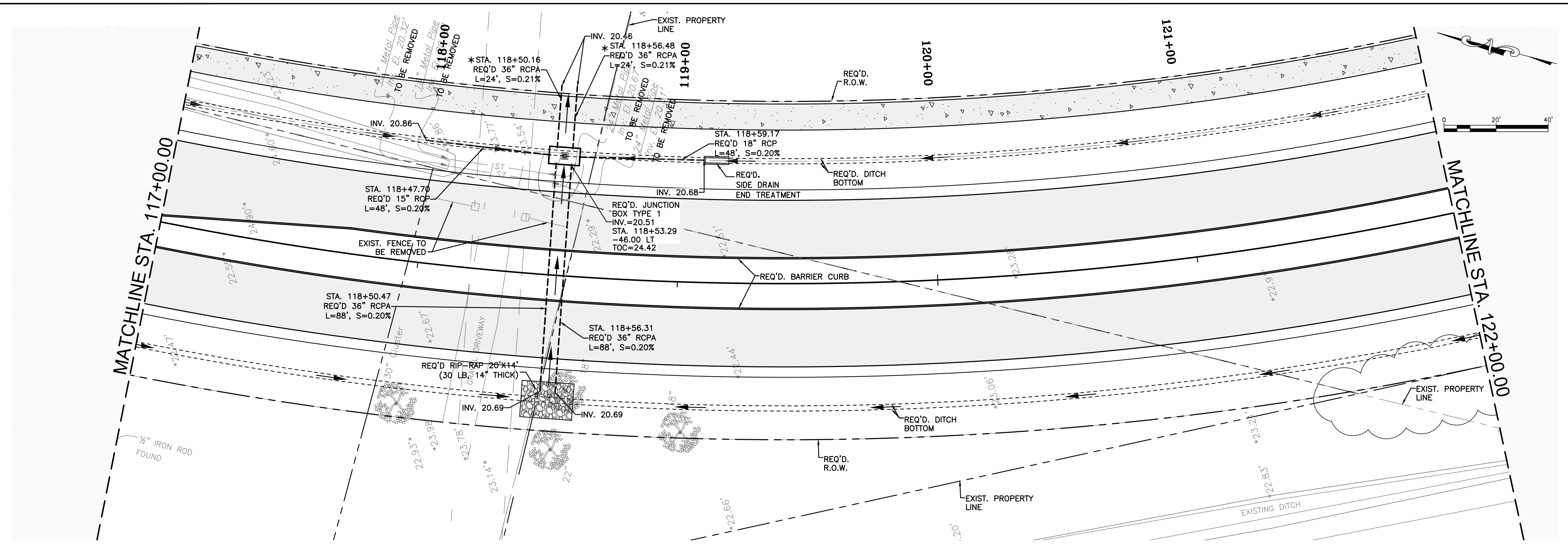
NO.	DATE	BY	REVISION DESCRIPTION

**PLAN & PROFILE**  
**LA 1077 CONNECTOR**  
**117+00.00 TO 122+00.00**  
LA 1077/LA 21 CONNECTOR ROAD

Project Number:  
RCLC No: 714-08

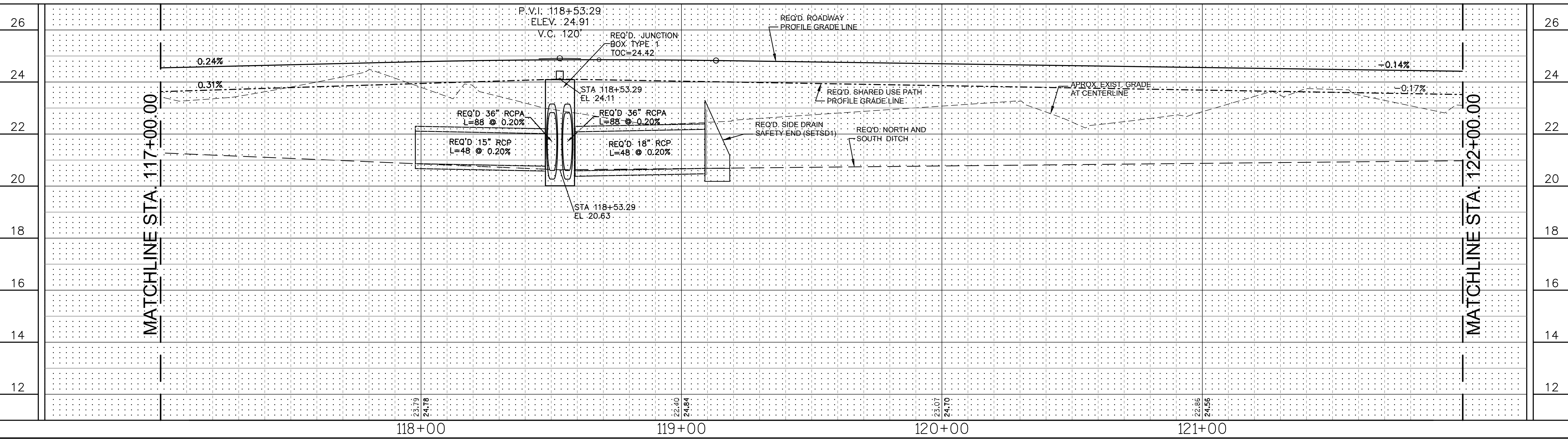


04/29/2021  
Sheet Number:



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\* CULVERTS SHALL BE POSITIONED TO OUTFALL INTO EXISTING DITCH. CONTRACTOR TO COORDINATE PLACEMENT OF 36" RCPAS WITH PROJECT ENGINEER PRIOR TO INSTALLATION OF CULVERTS.



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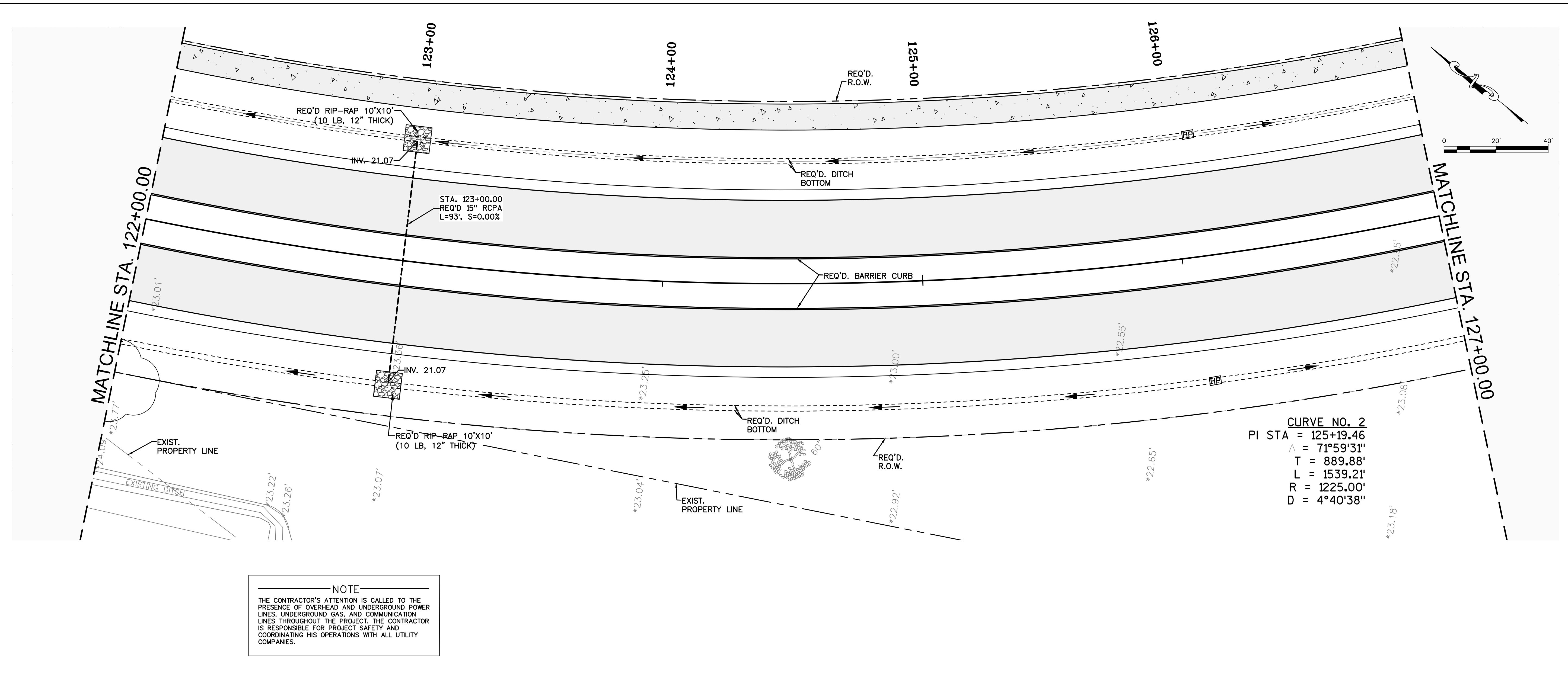
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DATE	04/29/21	
SHEET	12	

**PLAN & PROFILE**  
**LA 1077 CONNECTOR**  
**122+00.00 TO 127+00.00**  
LA 1077/LA 21 CONNECTOR ROAD

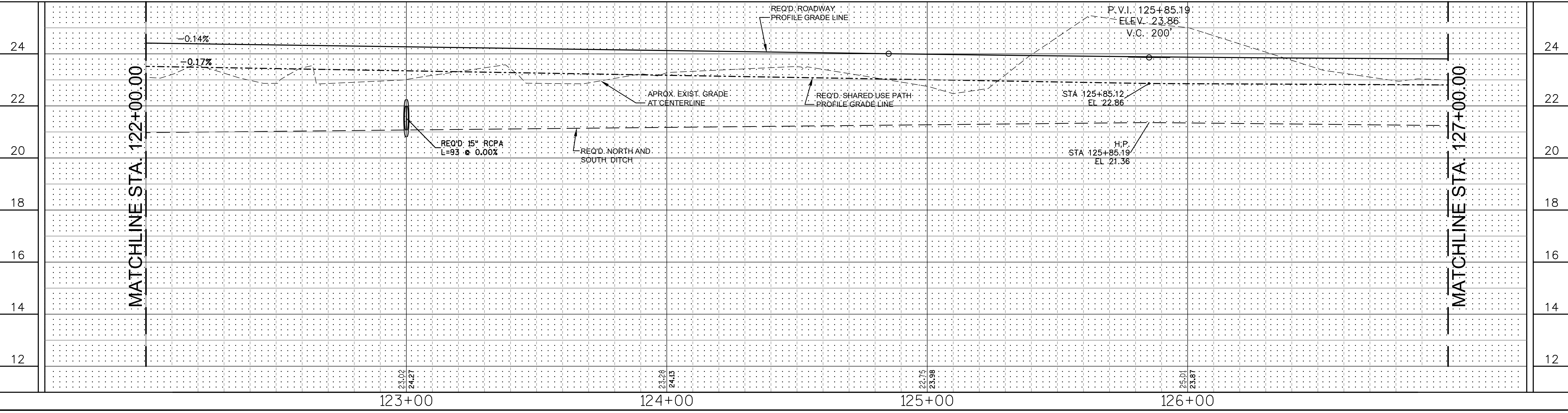
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Sheet Number:  
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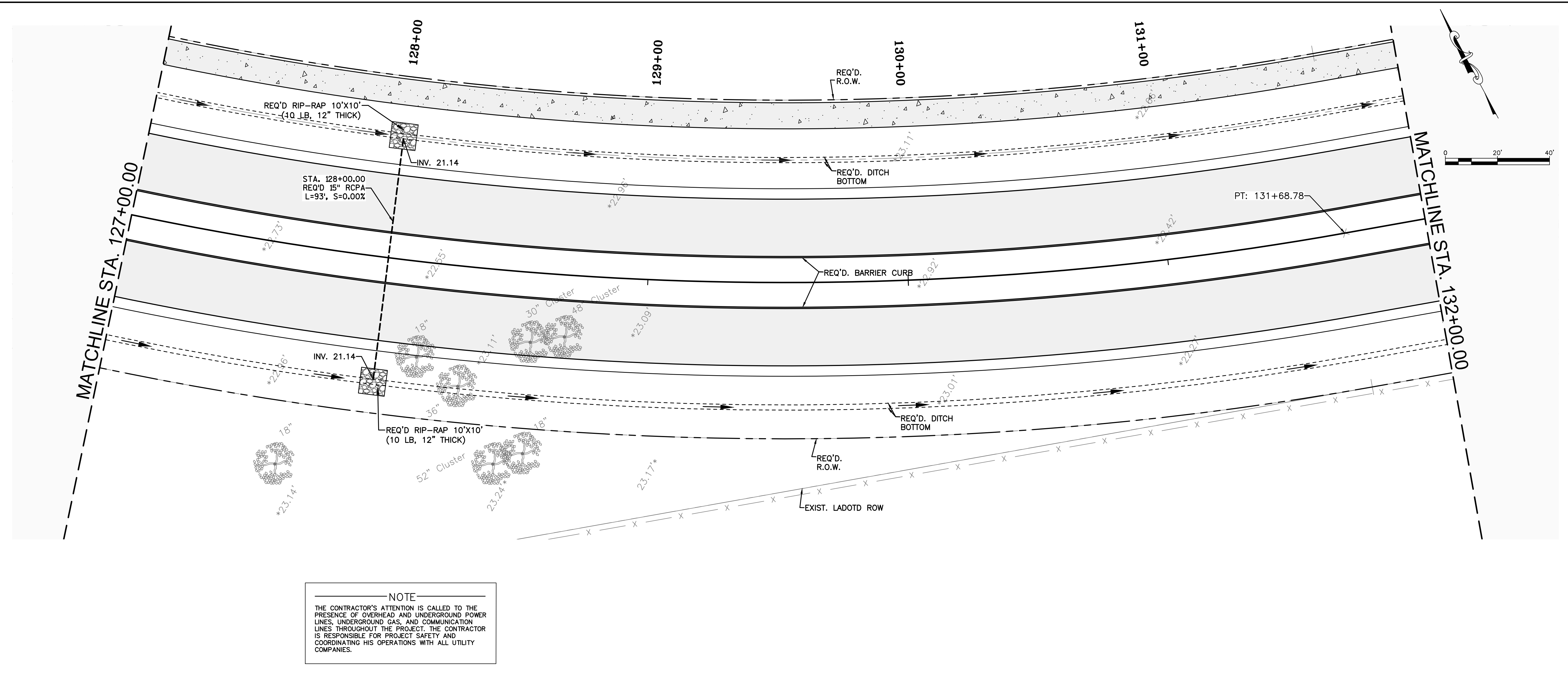


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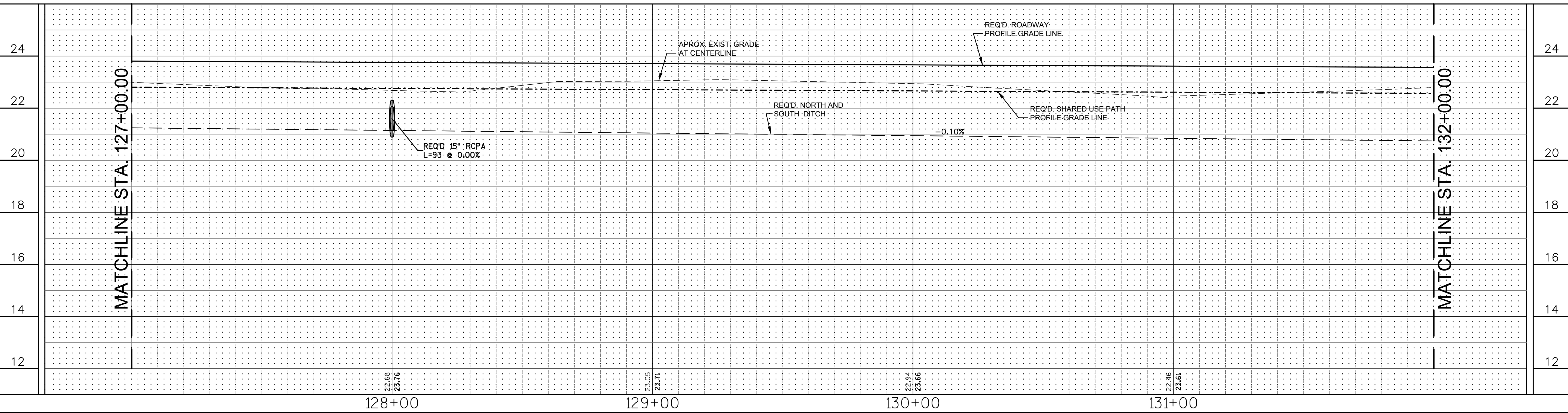


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DESIGNED	ATL	DATE	BY
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**PLAN & PROFILE**  
**LA 1077 CONNECTOR**  
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 LA 1077/LA 21 CONNECTOR ROAD

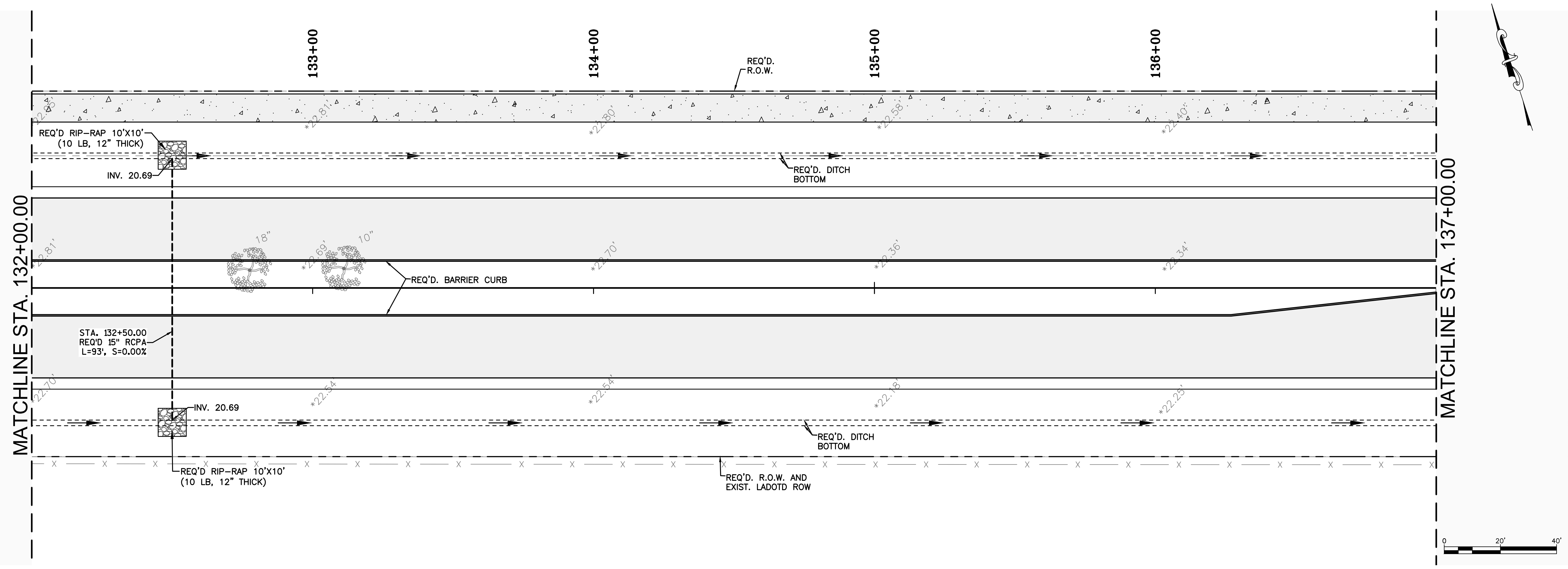
Project Number:  
 RCLC No: 714-08



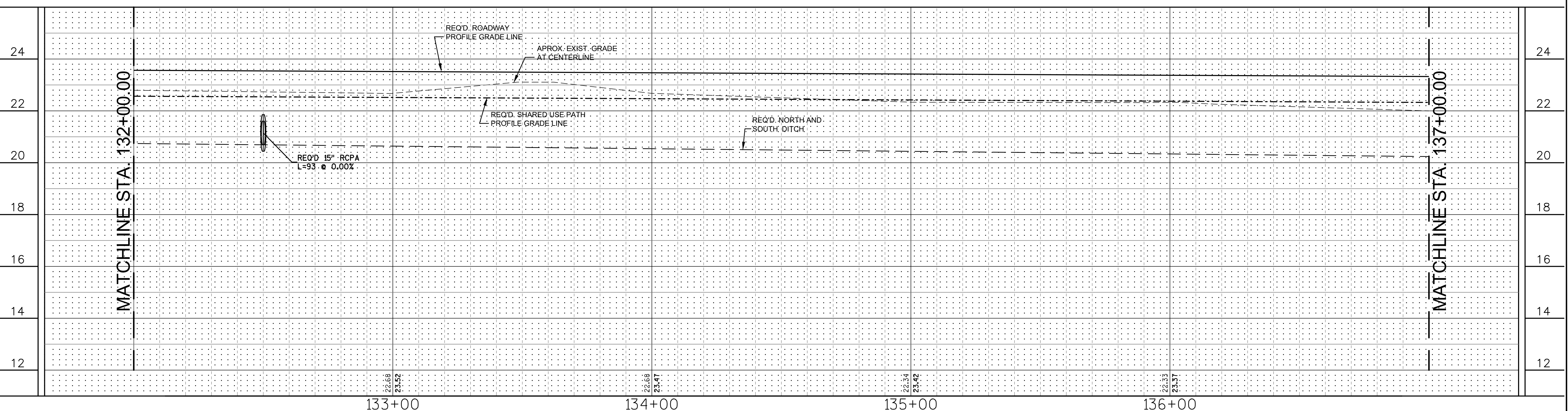
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DESIGNED	ATL	BY
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DATE	04/29/21	SHEET 14
REVISION DESCRIPTION		

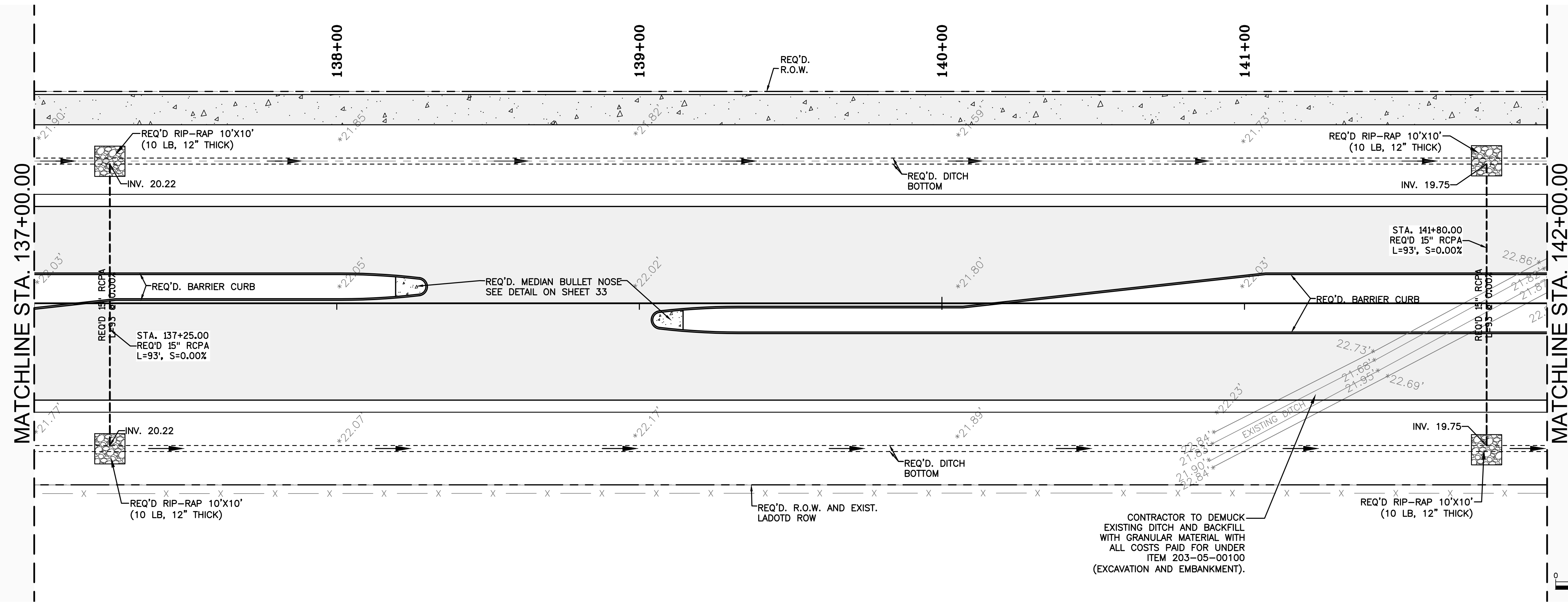
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**LA 1077 CONNECTOR**  
**132+00.00 TO 137+00.00**  
 LA 1077/LA 21 CONNECTOR ROAD

Project Number:  
 RCLC No: 714-08



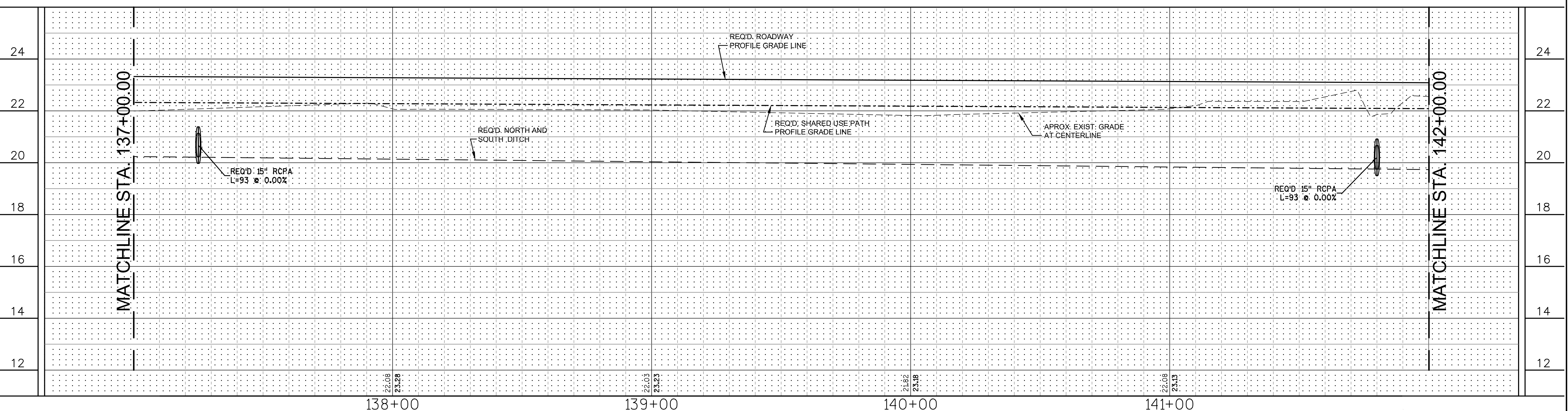
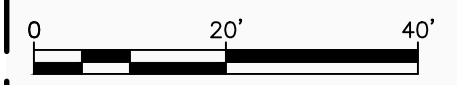
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CONTRACTOR TO DEMUCK EXISTING DITCH AND BACKFILL WITH GRANULAR MATERIAL WITH ALL COSTS PAID FOR UNDER ITEM 203-05-00100 (EXCAVATION AND EMBANKMENT).



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 Fax: 985-727-4447

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DATE	04/29/21 <td></td> <td></td> <td></td>			
SHEET	15 <td></td> <td></td> <td></td>			

**PLAN & PROFILE**  
**LA 1077 CONNECTOR**  
**137+00.00 TO 142+00.00**  
 LA 1077/LA 21 CONNECTOR ROAD

Project Number:  
 RCLC No: 714-08



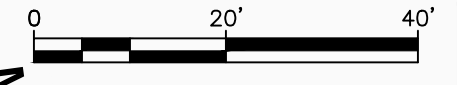
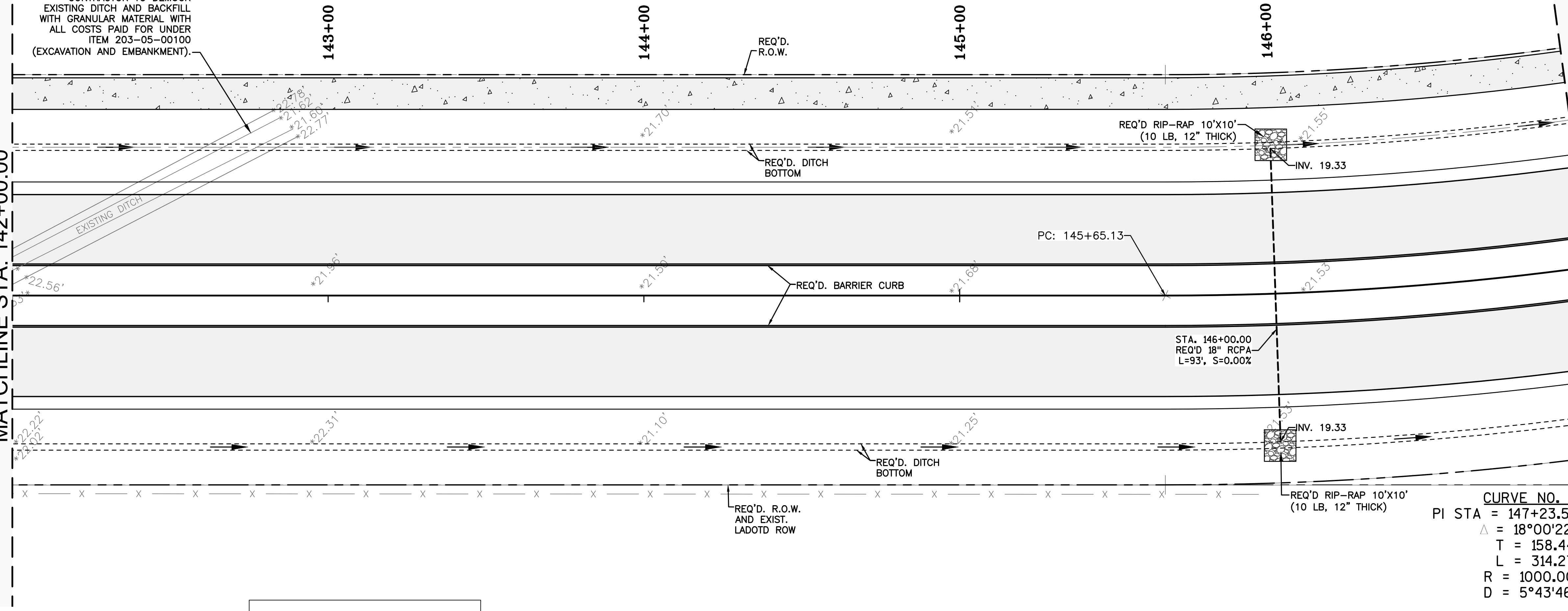
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CONTRACTOR TO DEMUCK EXISTING DITCH AND BACKFILL WITH GRANULAR MATERIAL WITH ALL COSTS PAID FOR UNDER ITEM 203-05-00100 (EXCAVATION AND EMBANKMENT).

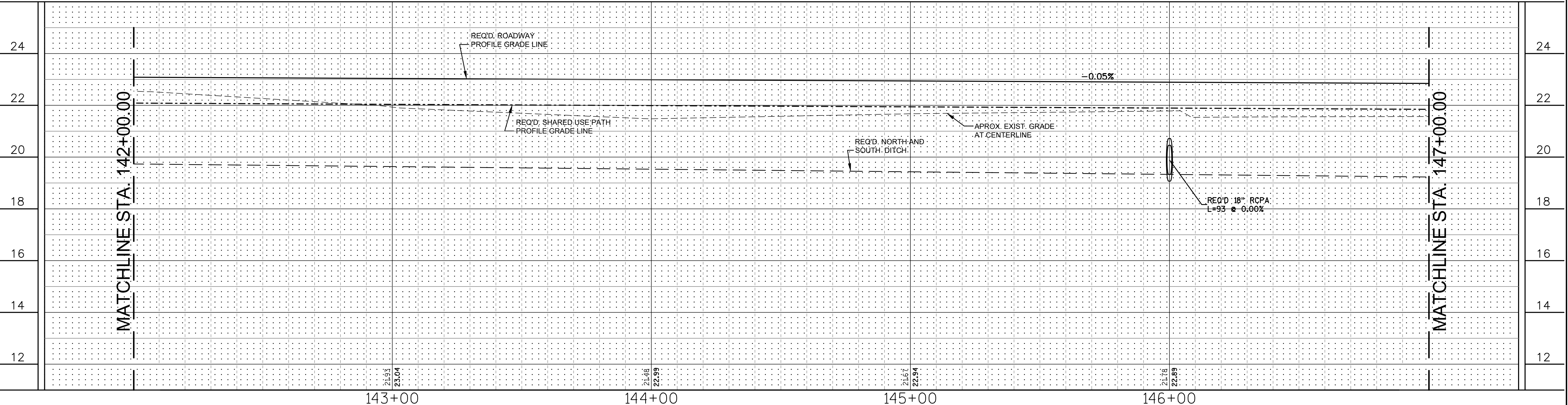
MATCHLINE STA. 142+00.00

MATCHLINE STA. 147+00.00



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**CURVE NO. 3**  
 PI STA = 147+23.57  
 $\Delta = 18^{\circ}00'22''$   
 T = 158.44'  
 L = 314.27'  
 R = 1000.00'  
 D = 5^{\circ}43'46''



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DESIGNED	ATL	BY
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DATE	04/29/21	
NO.	16	
REVISION	DESCRIPTION	

**PLAN & PROFILE**  
**LA 1077 CONNECTOR**  
**142+00.00 TO 147+00.00**  
 LA 1077/LA 21 CONNECTOR ROAD

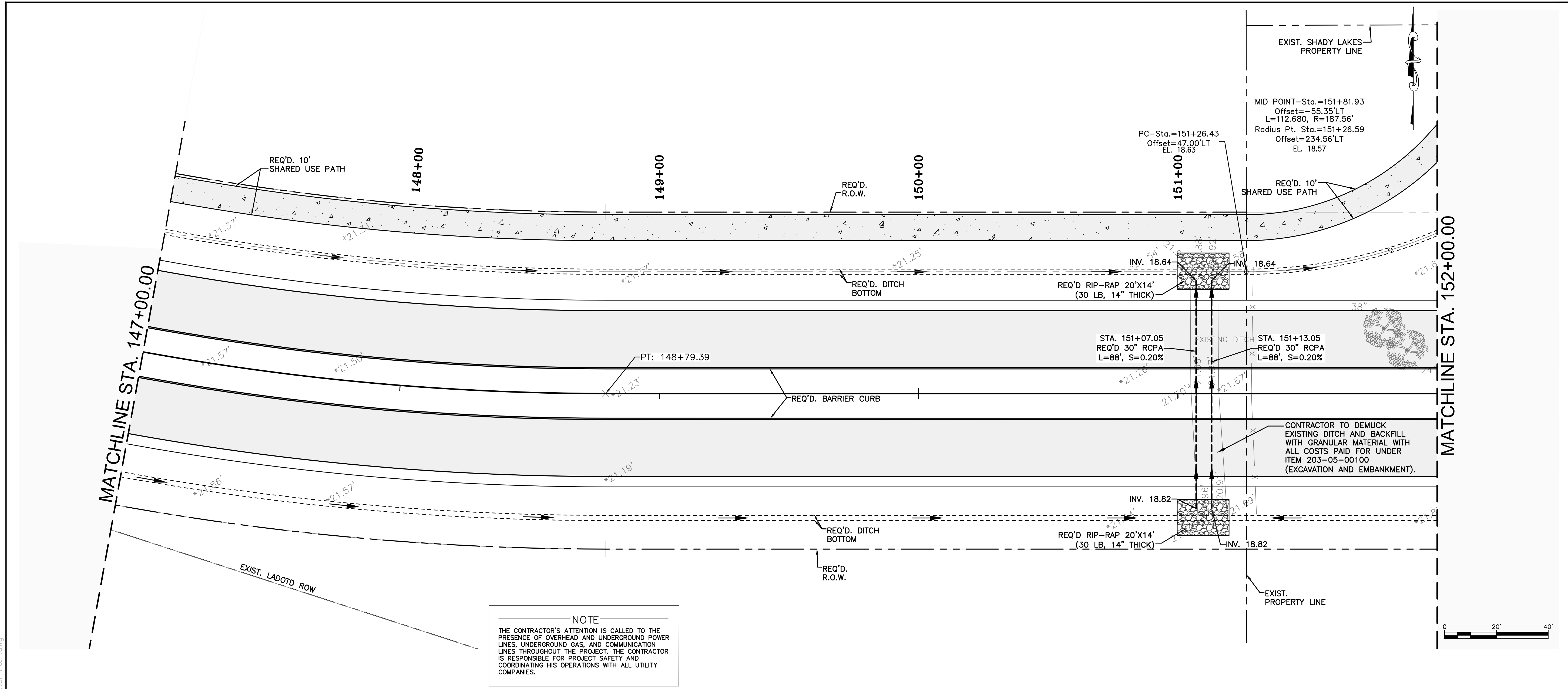
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 RCLC No: 714-08



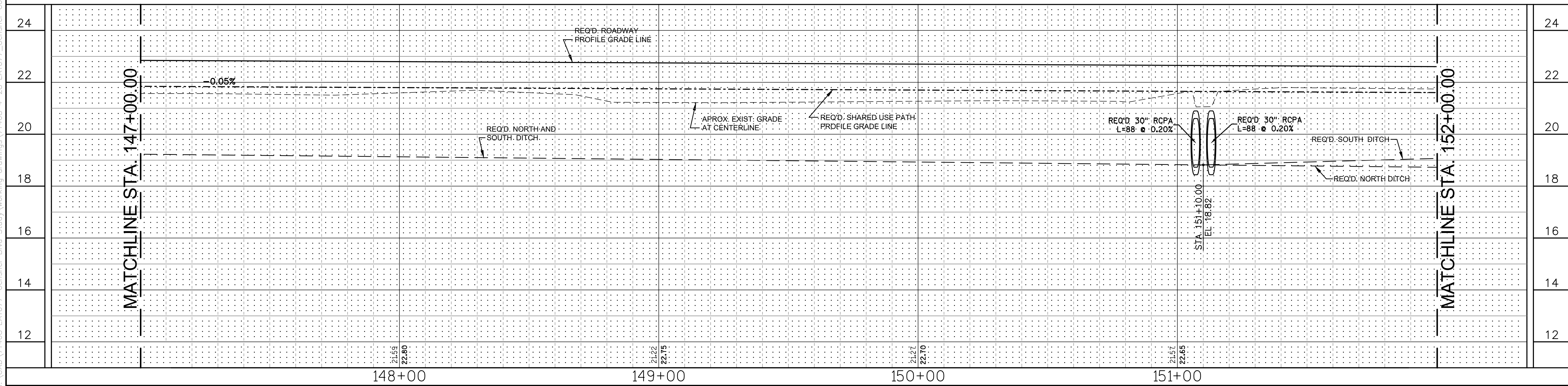
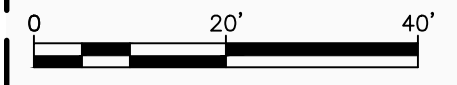
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**16**

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**NOTE**  
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DESIGNED	ATL	NO.	DATE	BY
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DATE		04/29/21		
SHEET		17		

**PLAN & PROFILE**  
**LA 1077 CONNECTOR**  
**147+00.00 TO 152+00.00**  
 LA 1077/LA 21 CONNECTOR ROAD

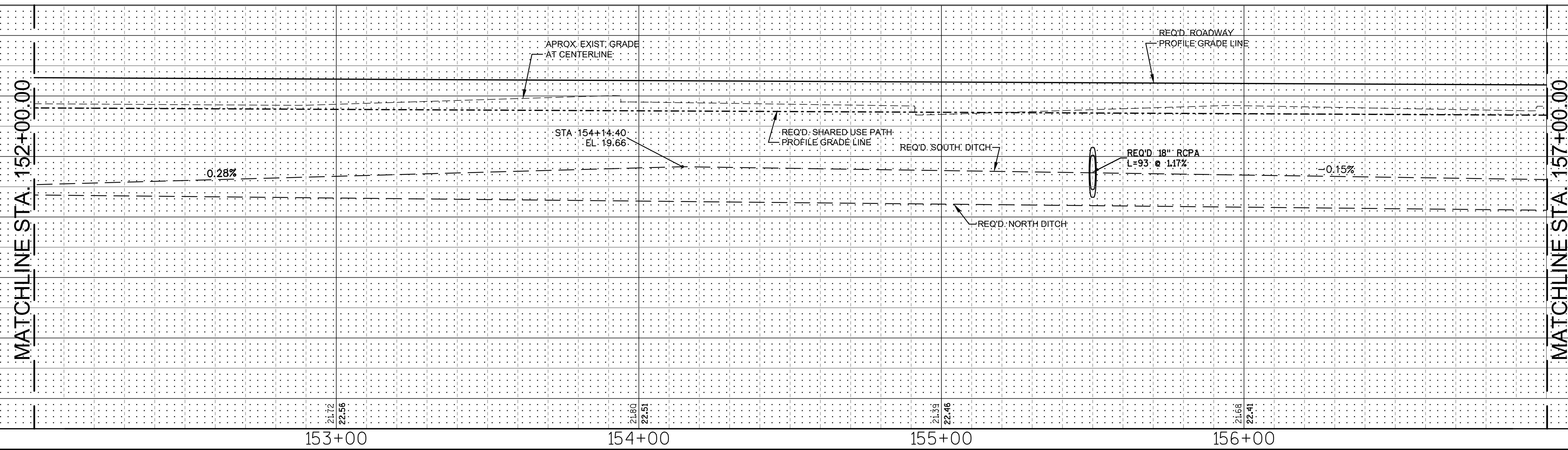
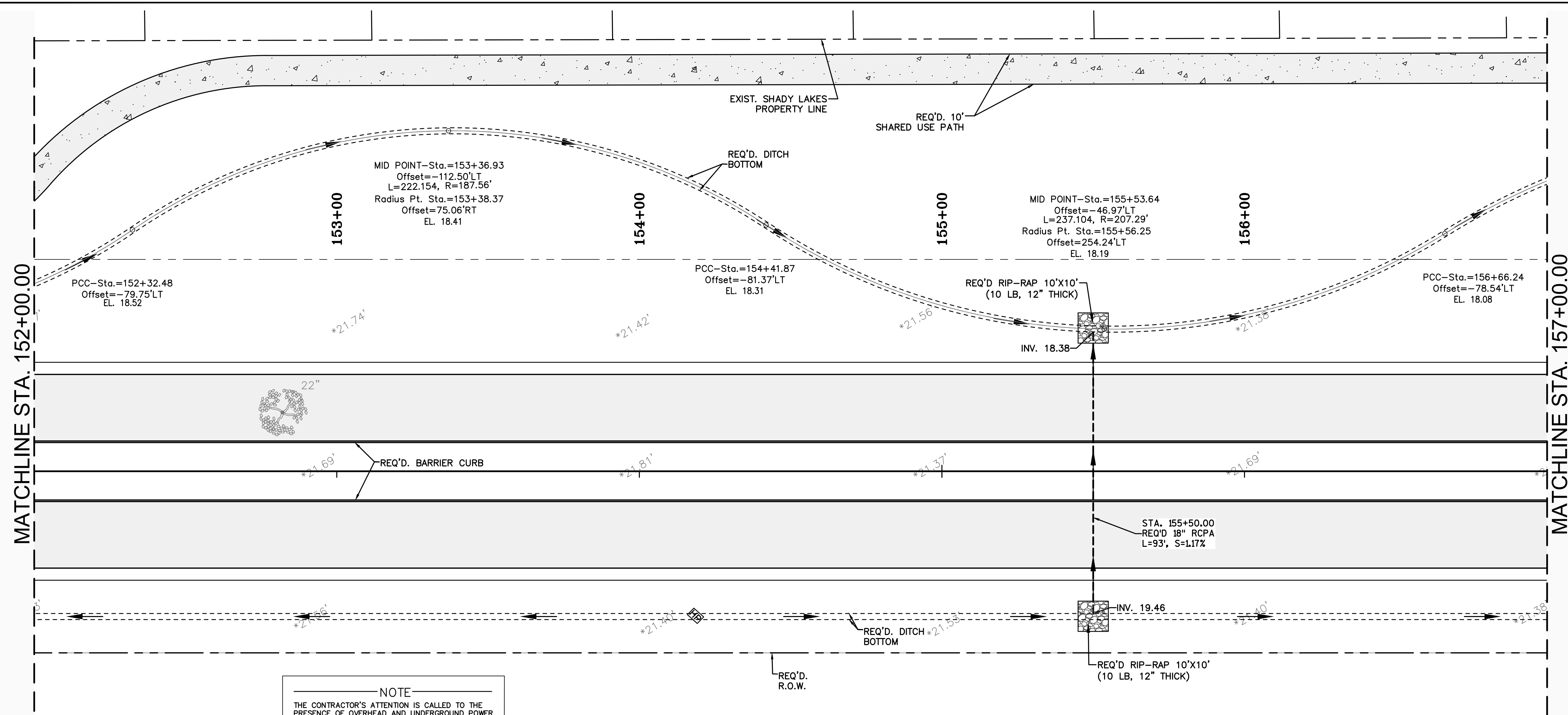
Project Number:  
 RCLC No: 714-08



04/29/2021  
 Sheet Number:  
**17**



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985-727-4447

DESIGNED	ATL
CHECKED	FJZ
DETAILED	LBW
CHECKED	FJZ
DATE	04/29/21
SHEET	18

NO.	DATE	BY	REVISION DESCRIPTION

**PLAN & PROFILE**  
**LA 1077 CONNECTOR**  
**152+00.00 TO 157+00.00**  
LA 1077/LA 21 CONNECTOR ROAD

Project Number:  
RCLC No: 714-08

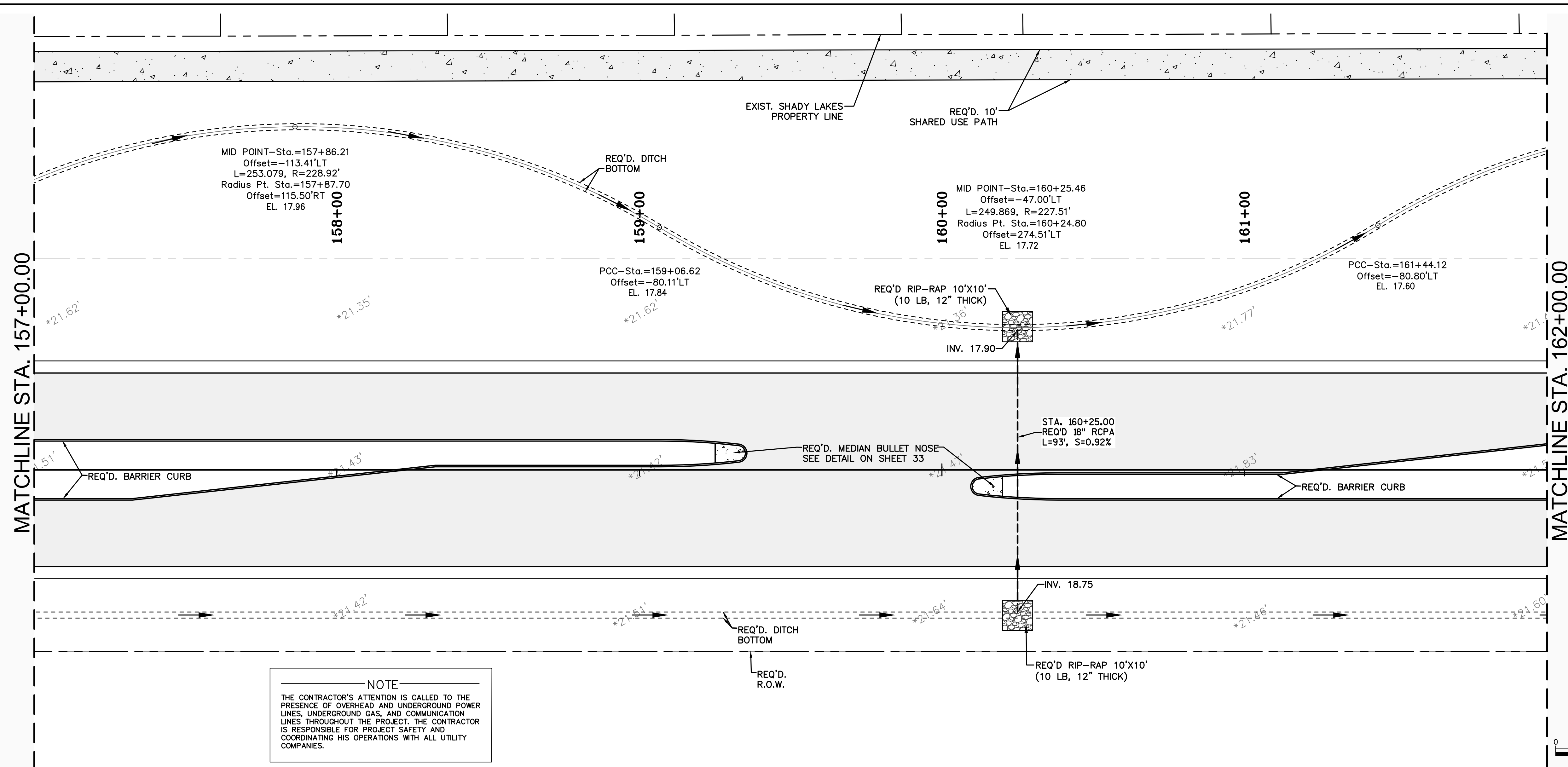


04/29/2021

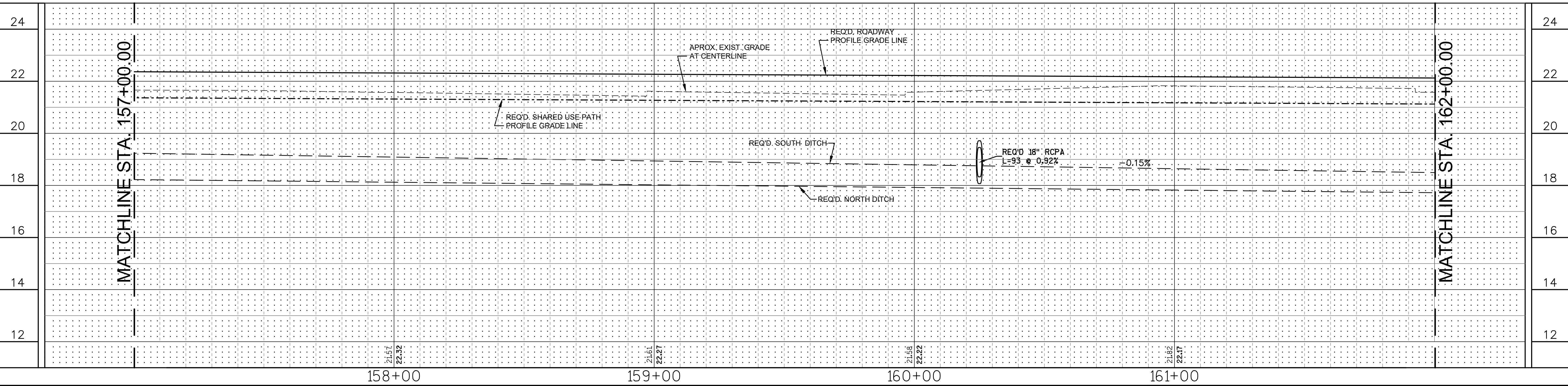
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DESIGNED	ATL
CHECKED	FJZ
DETAILED	LBW
CHECKED	FJZ
DATE	04/29/21
SHEET	19

NO.	DATE	BY	REVISION DESCRIPTION

**PLAN & PROFILE**  
**LA 1077 CONNECTOR**  
**157+00.00 TO 162+00.00**  
 LA 1077/LA 21 CONNECTOR ROAD

Project Number:  
 RCLC No: 714-08



04/29/2021  
 Sheet Number:

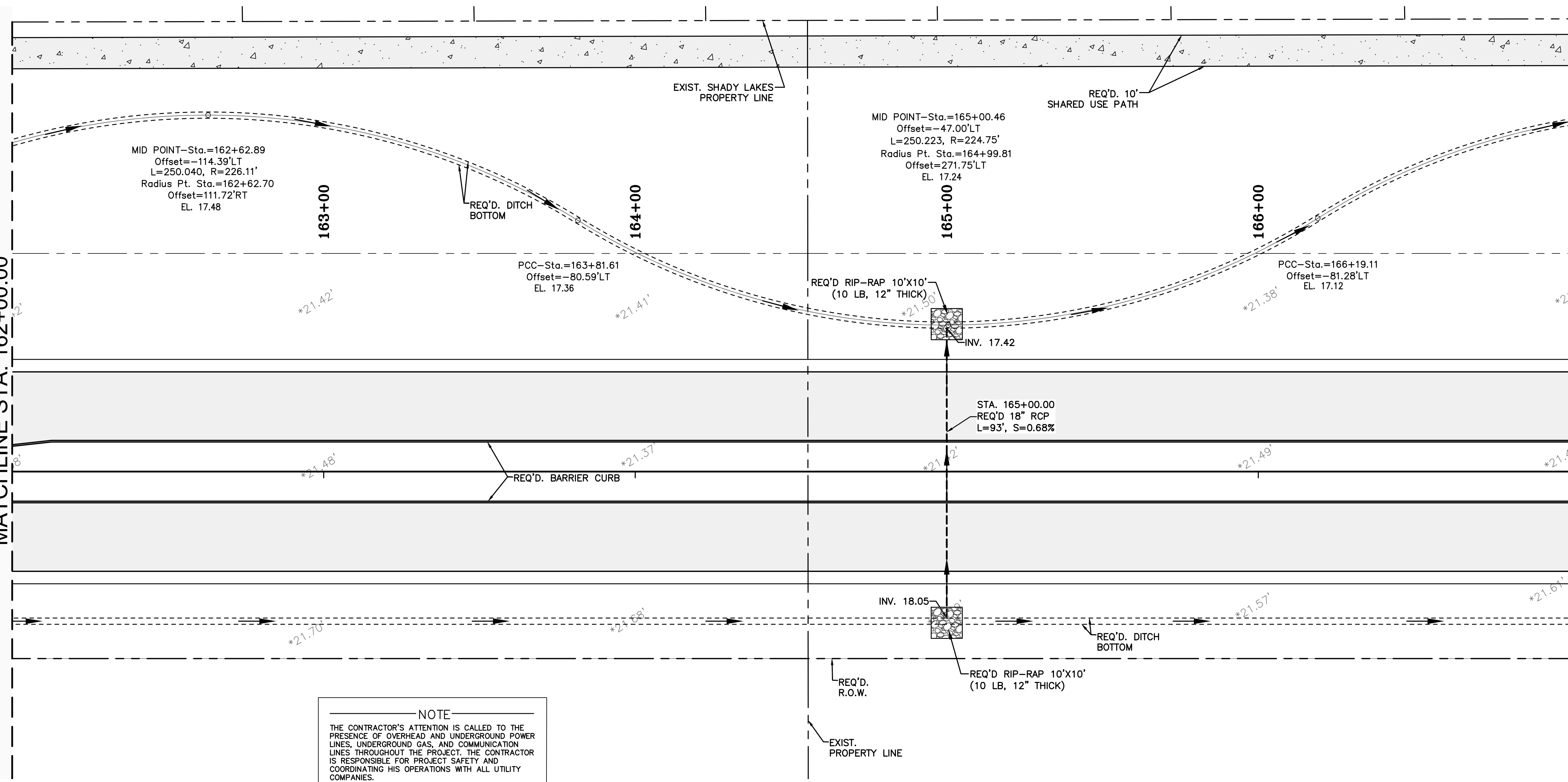
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MATCHLINE STA. 162+00.00

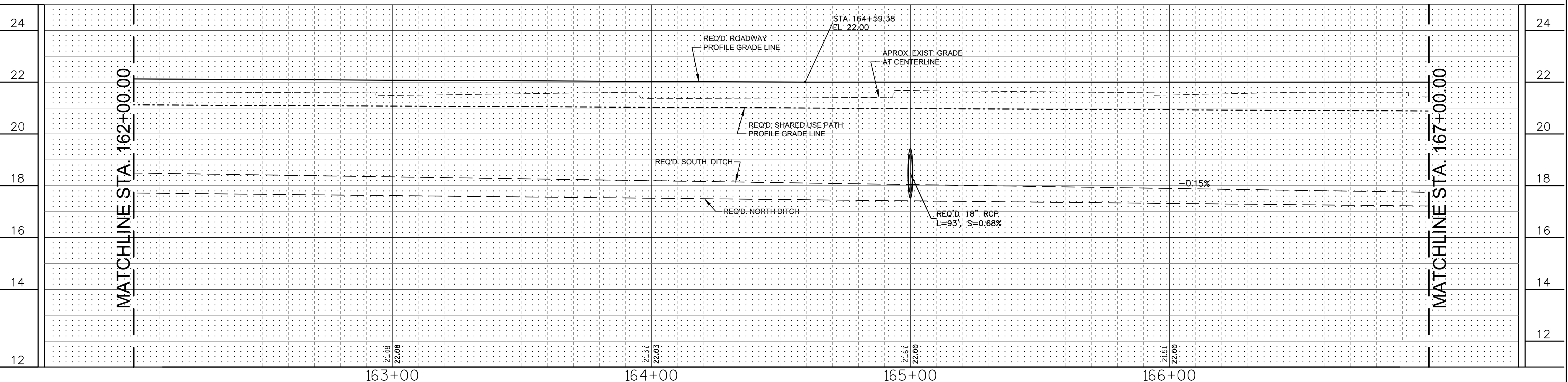
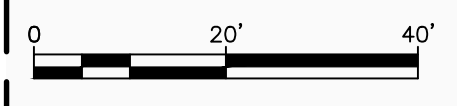
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MATCHLINE STA. 162+00.00

MATCHLINE STA. 167+00.00



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DESIGNED	ATL
CHECKED	FJZ
DETAILED	LBW
CHECKED	FJZ
DATE	04/29/21
SHEET	20

NO.	DATE	BY	REVISION DESCRIPTION

**PLAN & PROFILE**  
**LA 1077 CONNECTOR**  
**162+00.00 TO 167+00.00**  
 LA 1077/LA 21 CONNECTOR ROAD

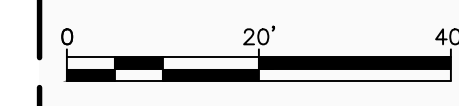
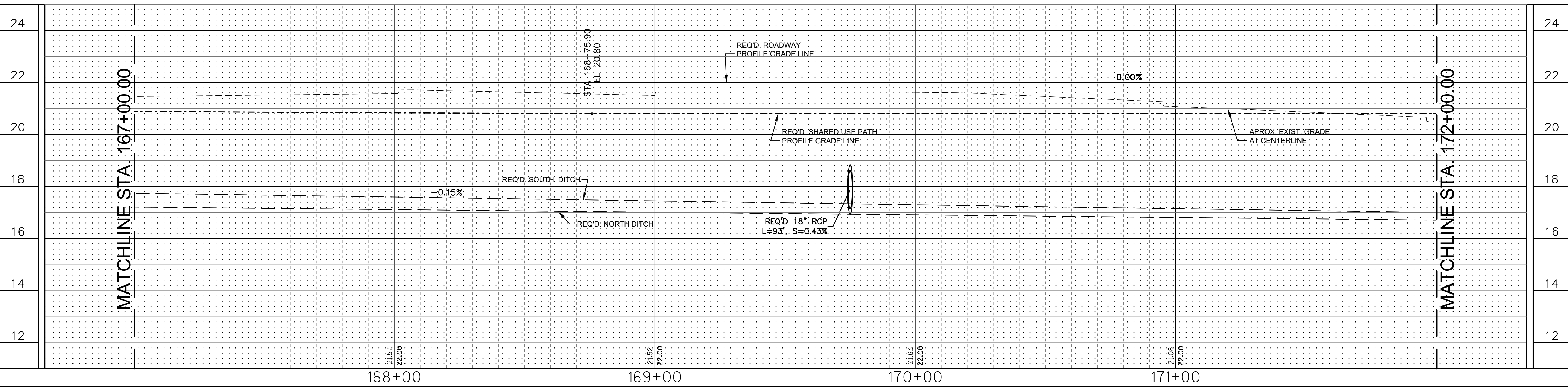
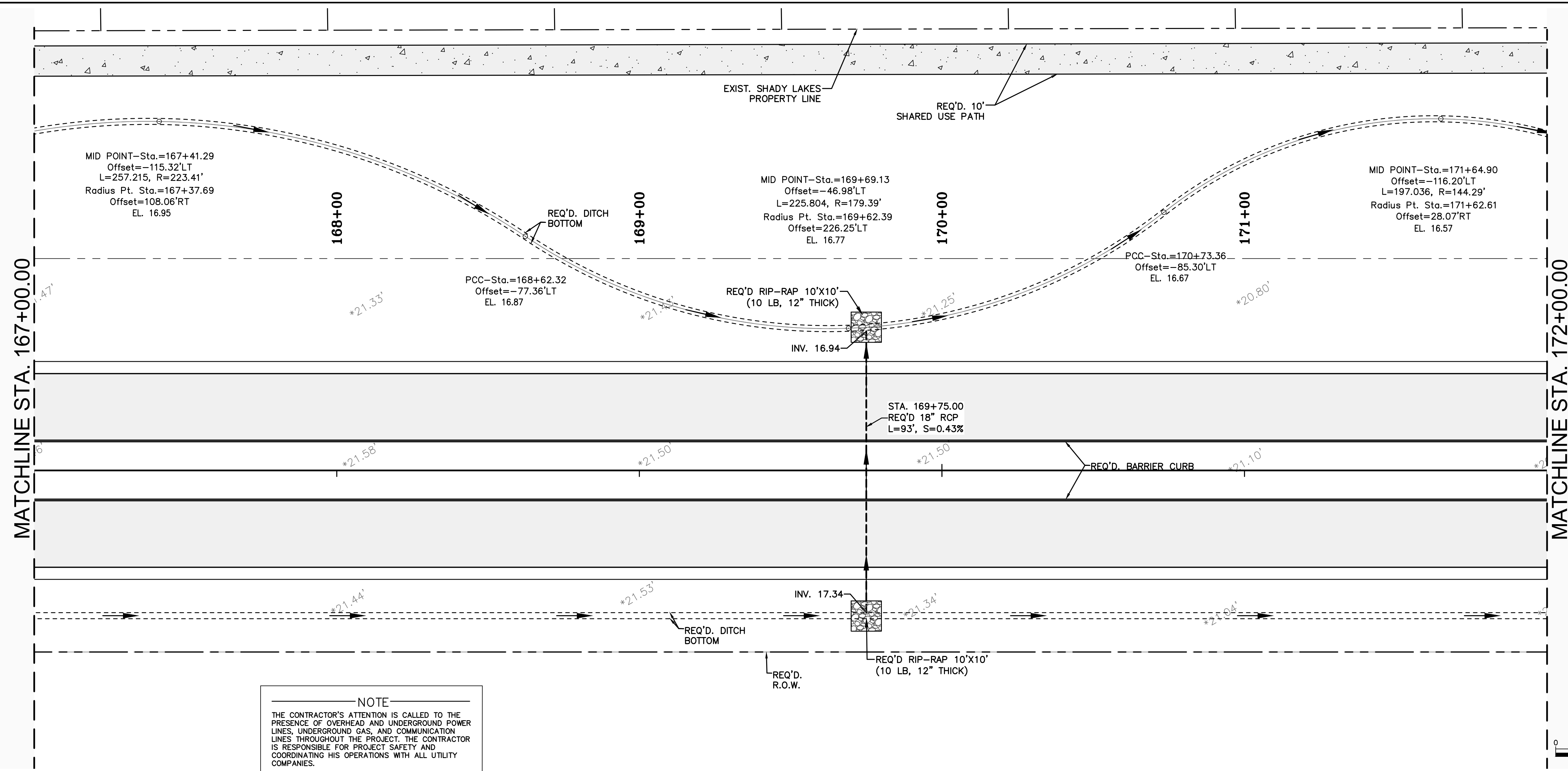
Project Number:  
 RCLC No: 714-08



04/29/2021  
 Sheet Number:  
**20**



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DESIGNED	ATL	NO.	DATE
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DATE	04/29/21	SHEET	21
BY		REVISION DESCRIPTION	

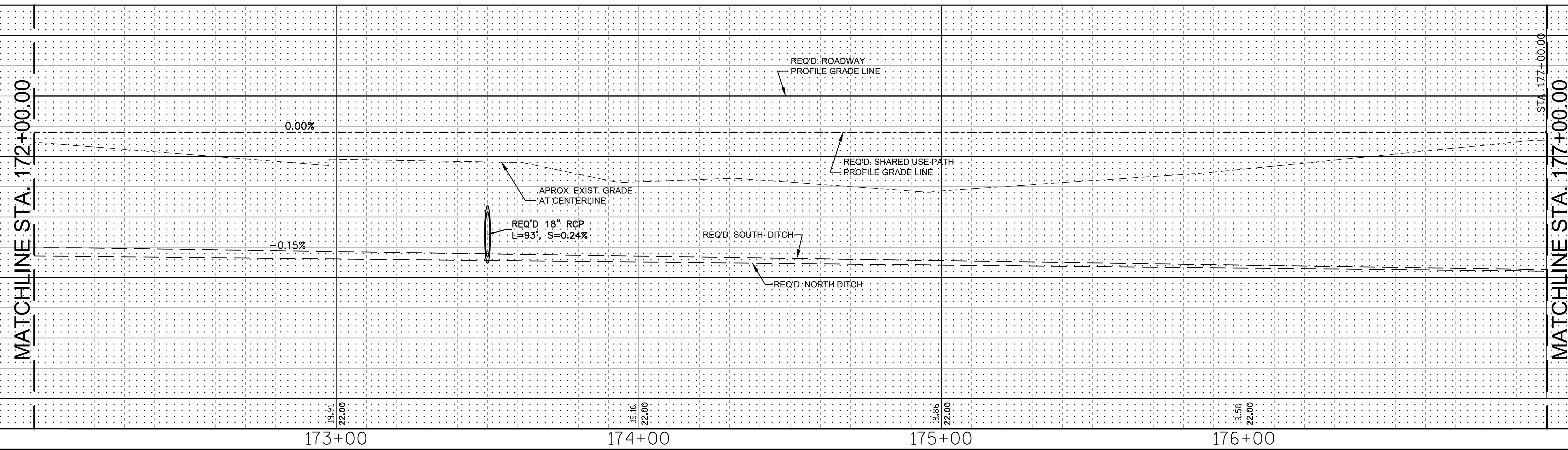
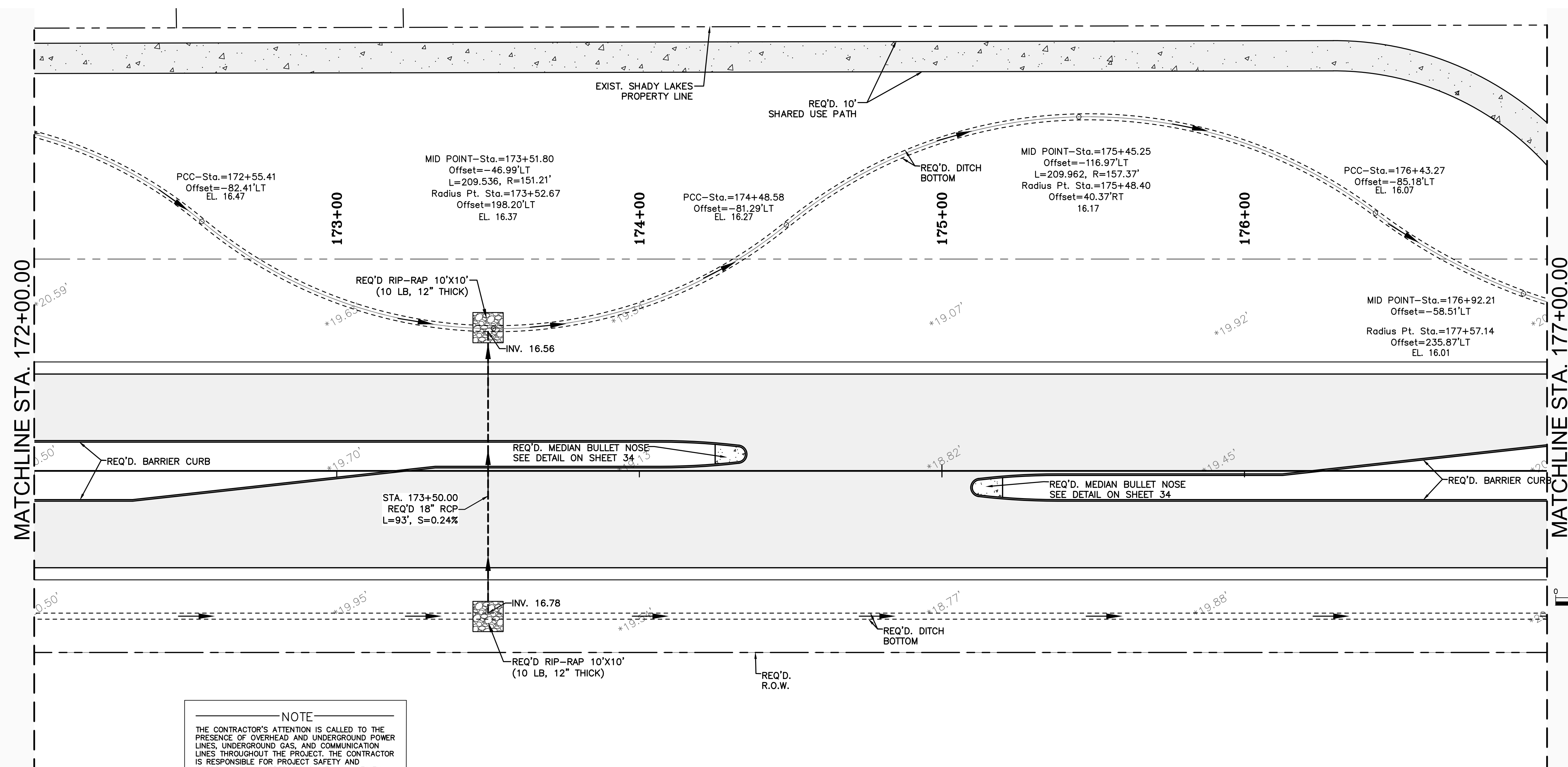
**PLAN & PROFILE**  
**LA 1077 CONNECTOR**  
**167+00.00 TO 172+00.00**  
LA 1077/LA 21 CONNECTOR ROAD

Project Number:  
RCLC No: 714-08



04/29/2021  
Sheet Number:  
**21**

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**RICHARD C. LAMBERT**  
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Engineering  
Planning  
Construction  
Management

DESIGNED	ATL	NO.	DATE
CHECKED	FJZ	22	04/29/21
DETAILED	LBW		
CHECKED	FJZ		

829 Baronne	NO.	DATE
New Orleans, LA 70113	22	04/29/21
900 W. Causeway		
Mandeville, LA 70471		
985-727-4440		
Fax: 985-727-4447		

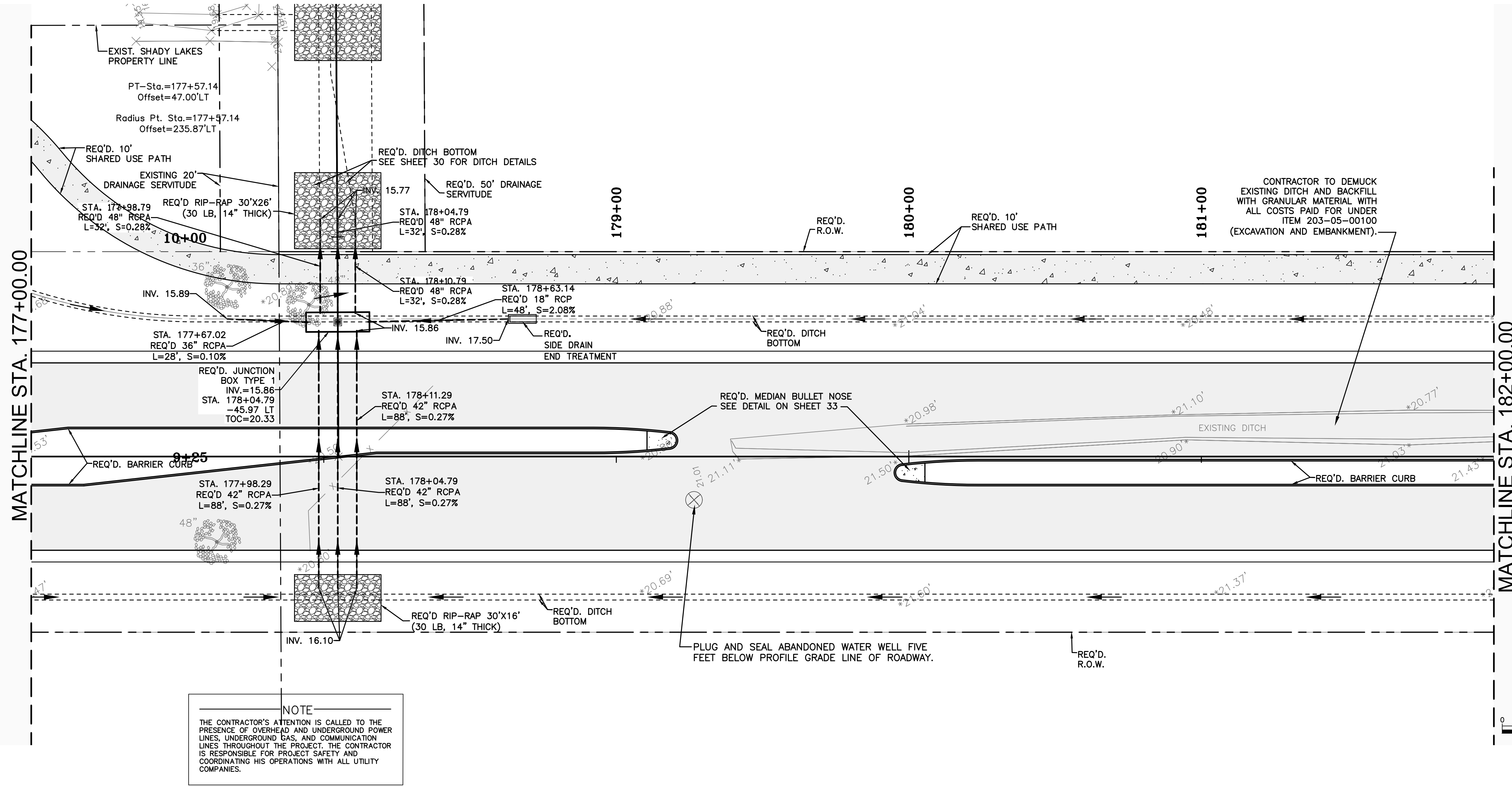
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**LA 1077 CONNECTOR**  
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LA 1077/LA 21 CONNECTOR ROAD

Project Number:  
RCLC No: 714-08

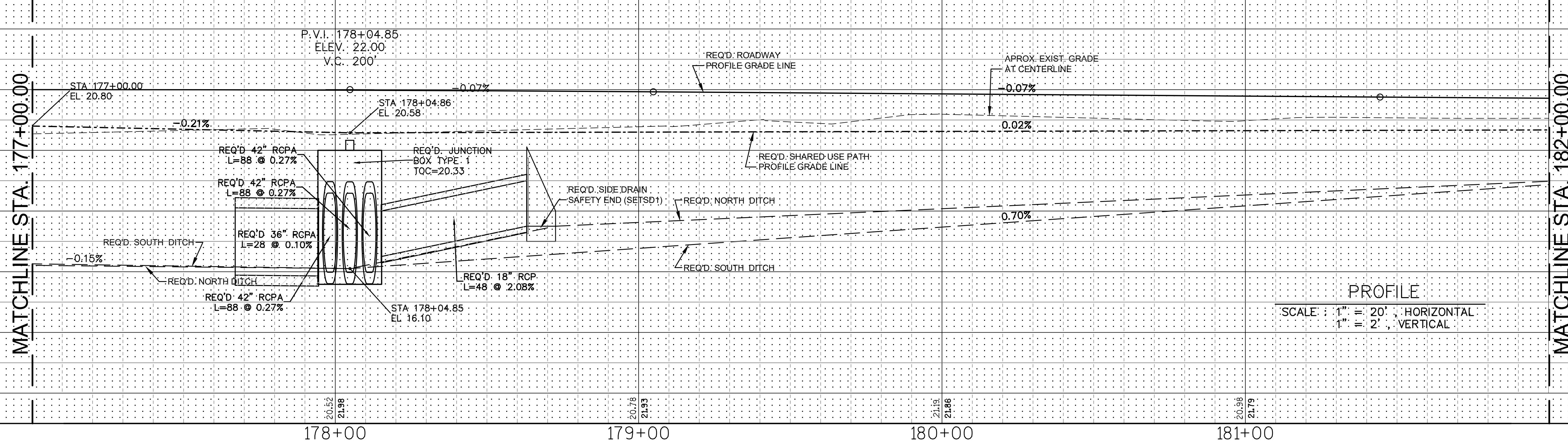
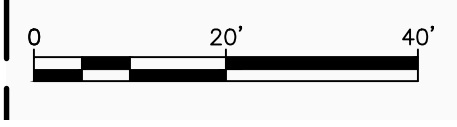


04/29/2021  
Sheet Number:  
**22**





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**PROFILE**  
 SCALE : 1" = 20' ; HORIZONTAL  
 1" = 2' ; VERTICAL



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DESIGNED	CHECKED	DATE	NO.	DATE	BY	REVISION DESCRIPTION
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LBW	FJZ					

**PLAN & PROFILE**  
**LA 1077 CONNECTOR**  
**177+00.00 TO 182+00.00**  
 LA 1077/LA 21 CONNECTOR ROAD

Project Number:  
 RCLC No: 714-08

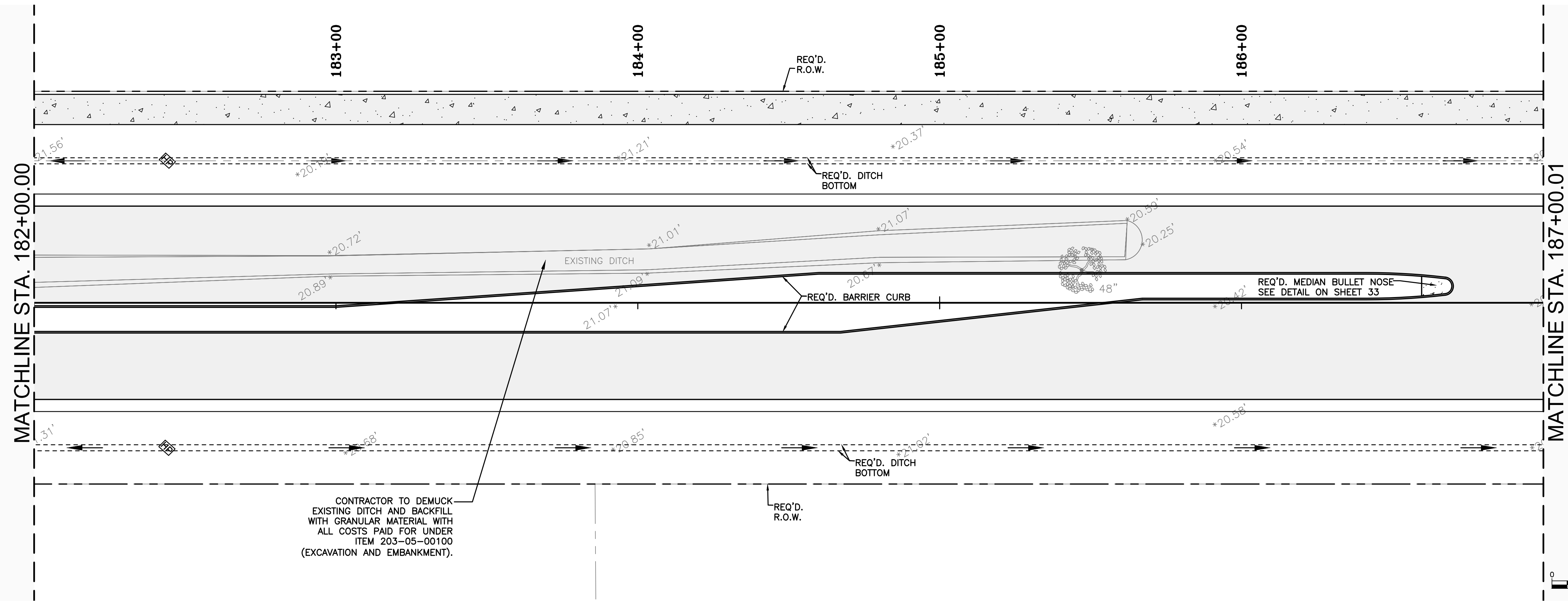


04/29/2021  
 Sheet Number:  
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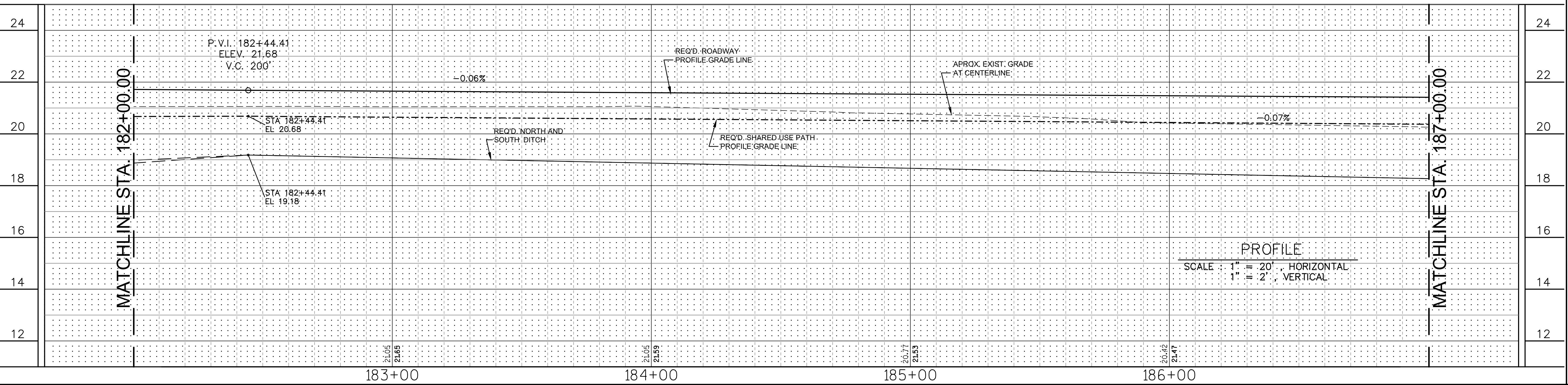
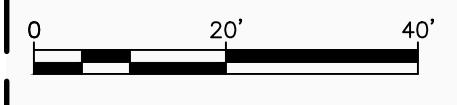
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**PROFILE**  
 SCALE 1" = 20' HORIZONTAL  
 1" = 2' VERTICAL



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**PLAN & PROFILE**  
**LA 1077 CONNECTOR**  
**182+00.00 TO 187+00.00**  
 LA 1077/LA 21 CONNECTOR ROAD

Project Number:  
 RCLC No: 714-08



Sheet Number:  
**24**

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DETAILED	LBW
CHECKED	FJZ
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NO.	DATE	BY	REVISION DESCRIPTION

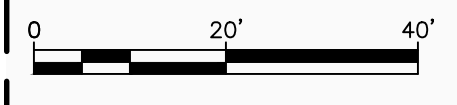
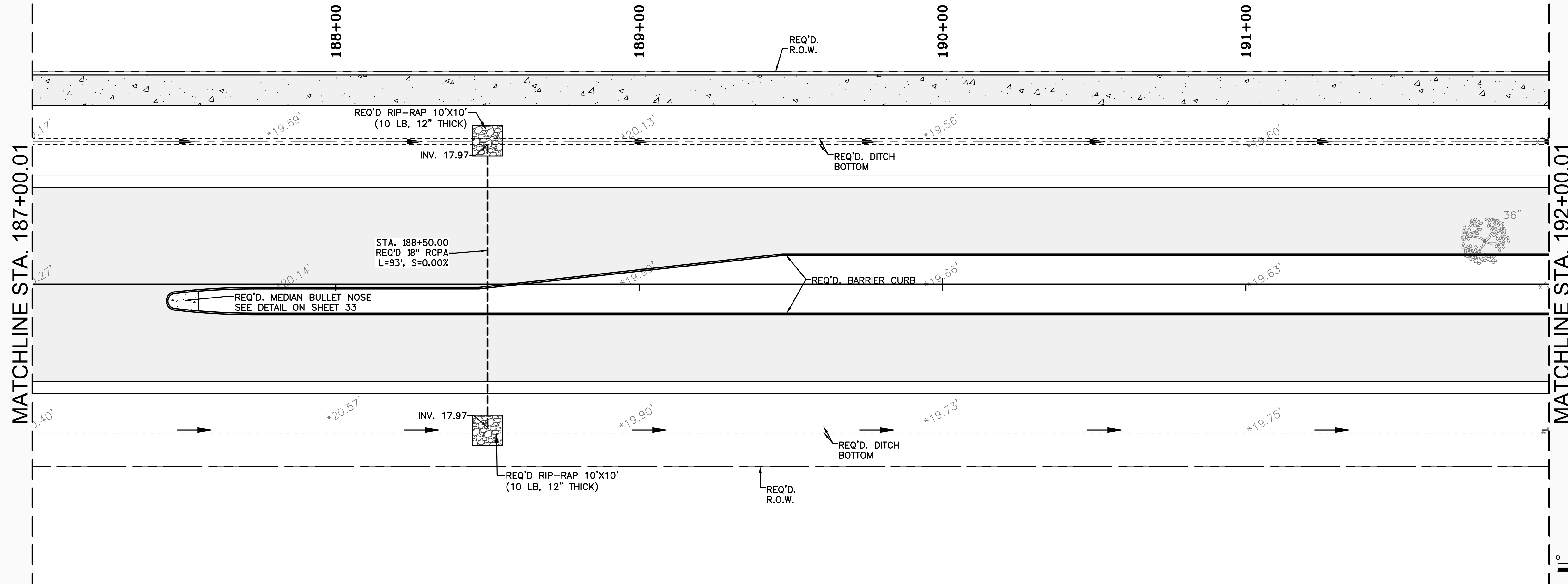
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**187+00.00 TO 192+00.00**  
LA 1077/LA 21 CONNECTOR ROAD

Project Number:  
RCLC No: 714-08

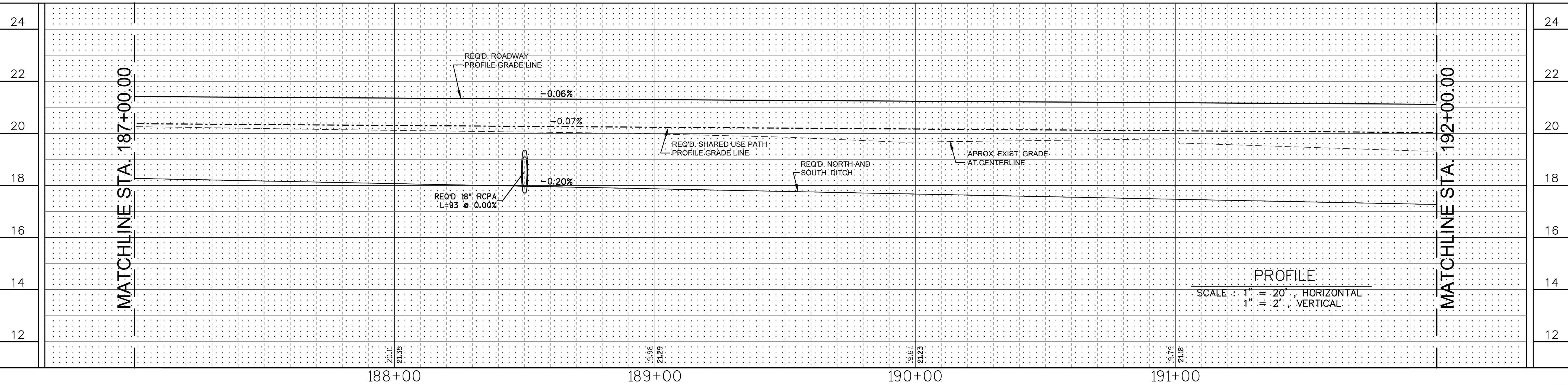


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Sheet Number:

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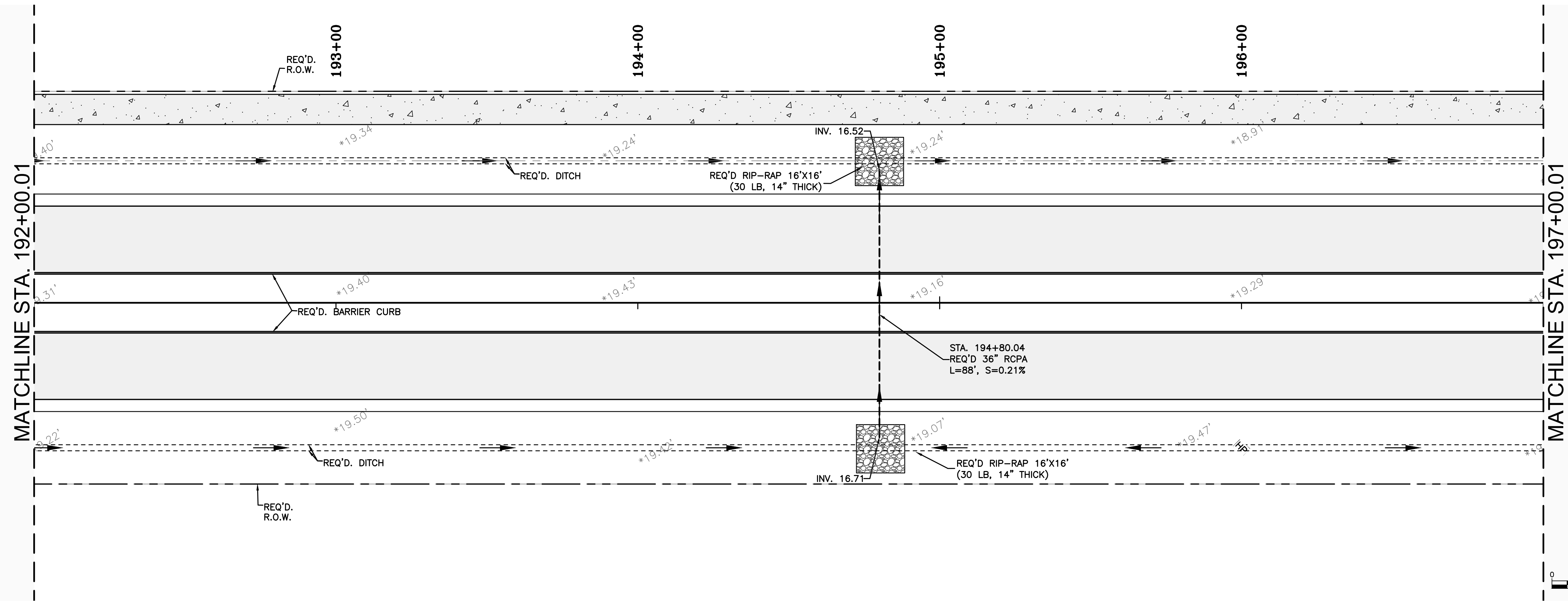


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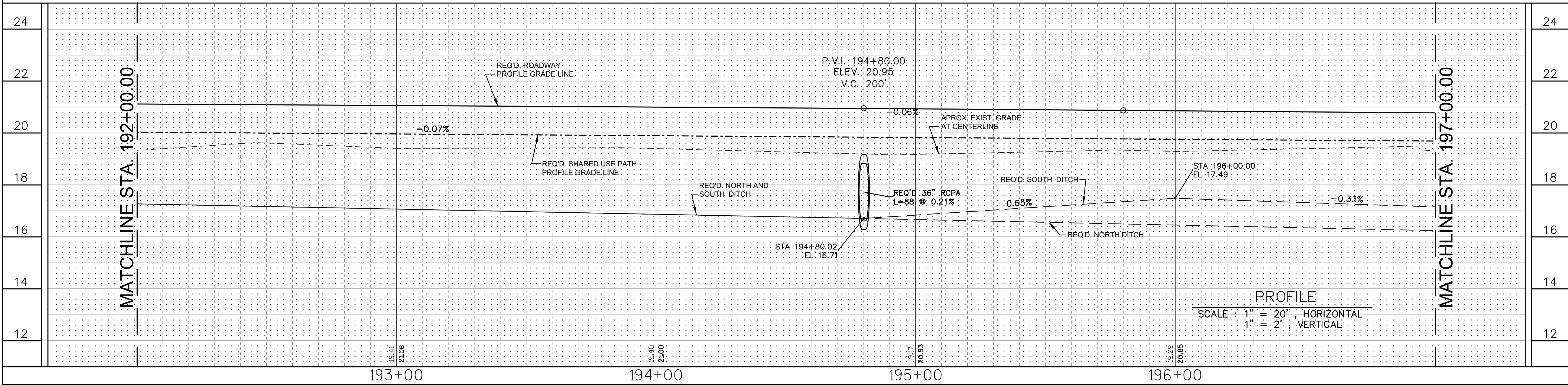
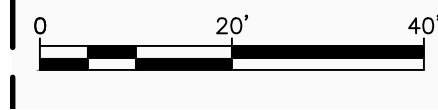


**PROFILE**  
SCALE : 1" = 20', HORIZONTAL  
1" = 2', VERTICAL

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**PROFILE**  
 SCALE : 1" = 20' HORIZONTAL  
 1" = 2' VERTICAL



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DESIGNED	ATL
CHECKED	FJZ
DETAILED	LBW
CHECKED	FJZ
DATE	04/29/21
SHEET	26

NO.	DATE	BY	REVISION DESCRIPTION

**PLAN & PROFILE**  
**LA 1077 CONNECTOR**  
**192+00.00 TO 197+00.00**  
 LA 1077/LA 21 CONNECTOR ROAD

Project Number:  
 RCLC No: 714-08

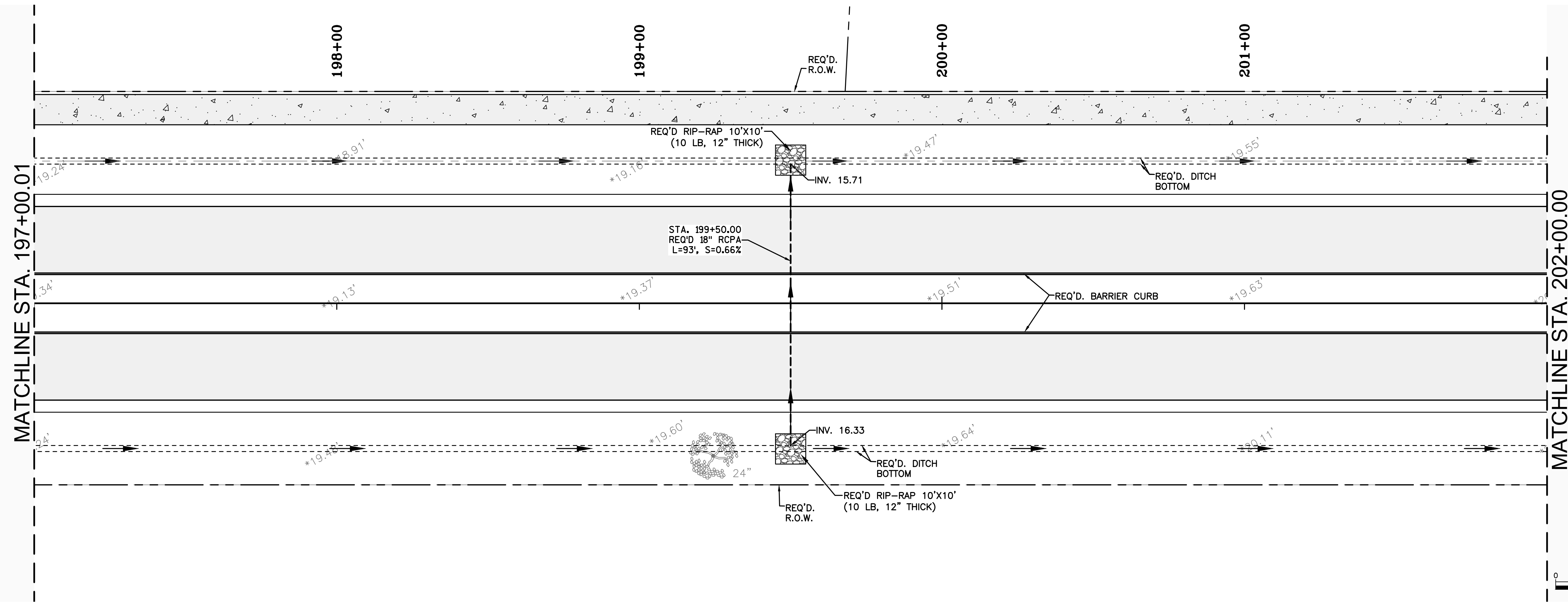


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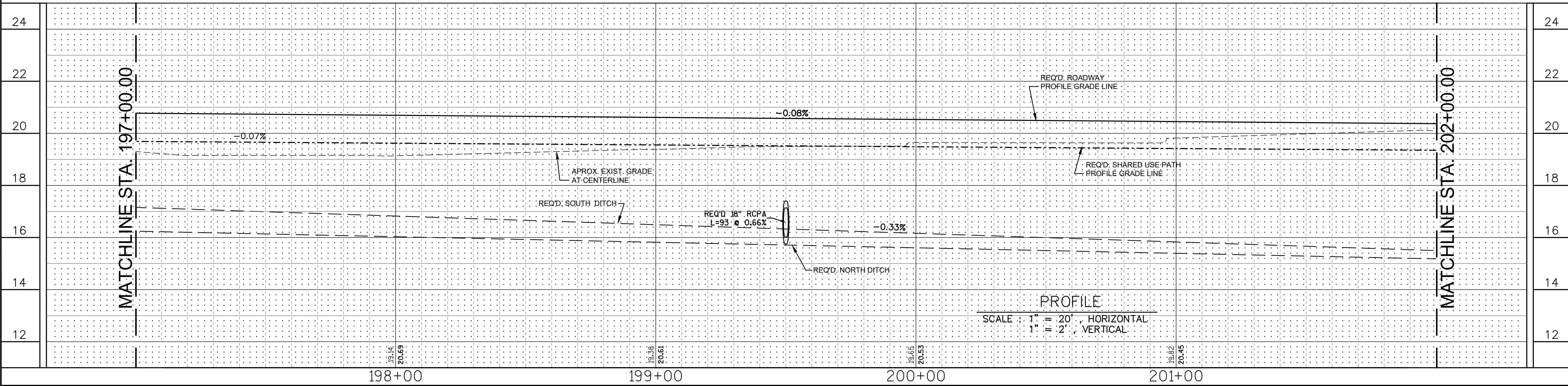
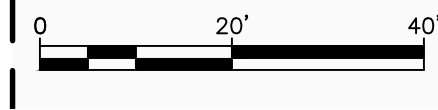
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DESIGNED	ATL
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DETAILED	LBW
CHECKED	FJZ
DATE	04/29/21
SHEET	27

NO.	DATE	BY	REVISION DESCRIPTION

**PLAN & PROFILE**  
**LA 1077 CONNECTOR**  
**197+00.00 TO 202+00.00**  
 LA 1077/LA 21 CONNECTOR ROAD

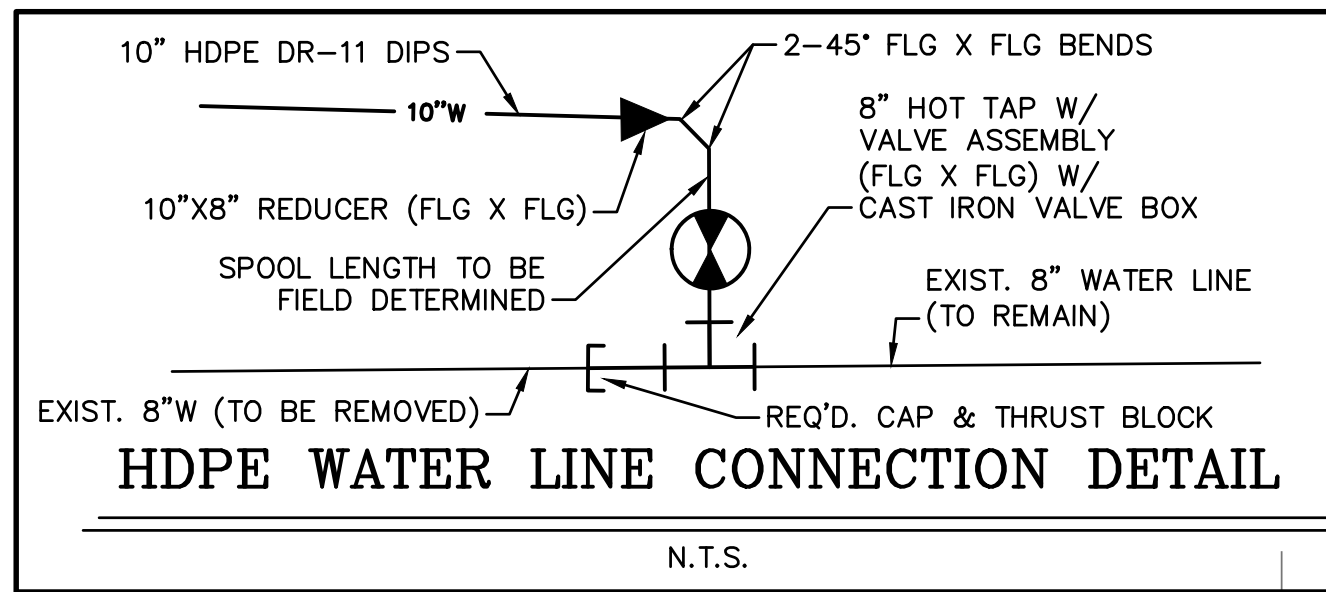
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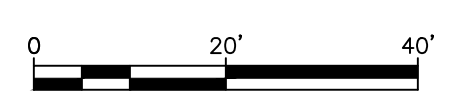
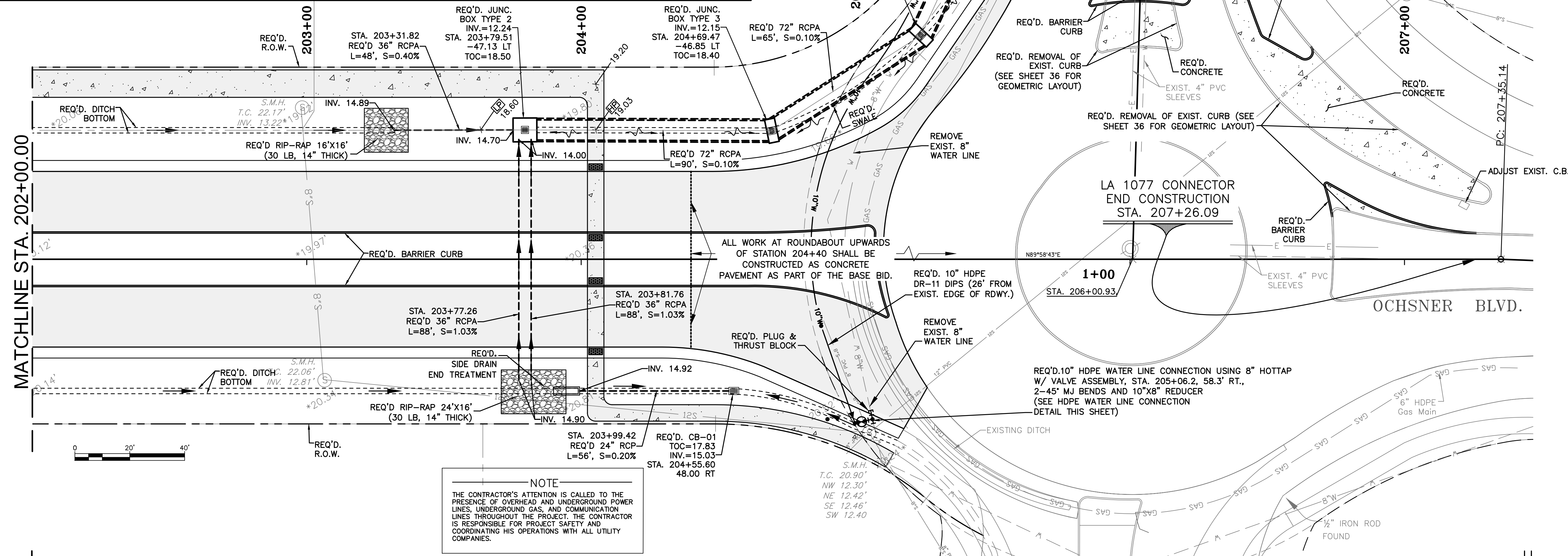
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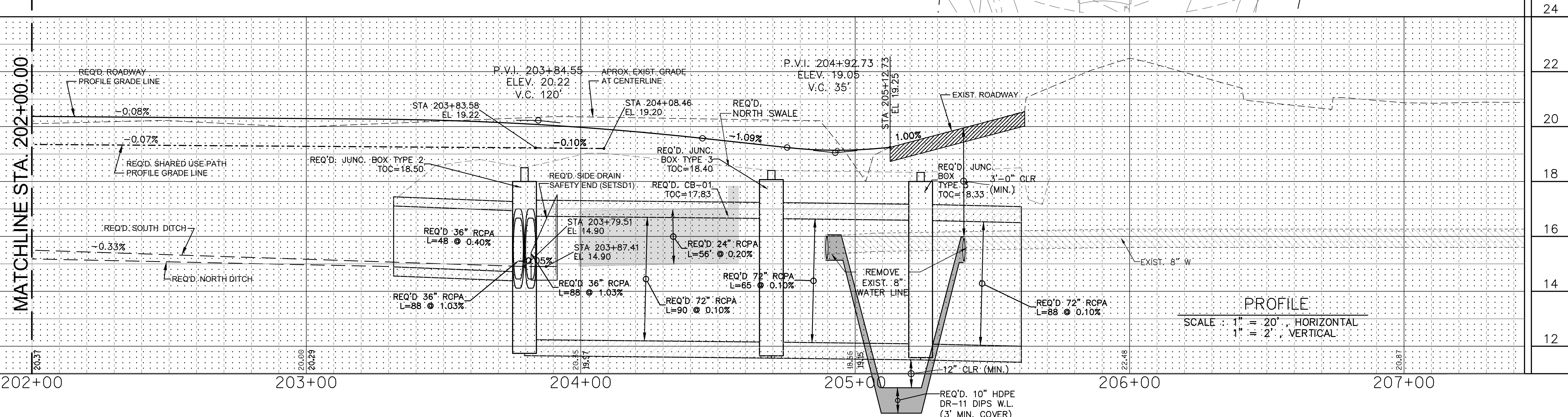




- NOTES:**
1. ALL CONNECTIONS AND FITTINGS FOR HDPE PIPE SHALL BE SDR-11 HDPE DIPS BUTT FUSION MECHANICAL JOINT ADAPTERS. MATERIAL SHALL BE NSF STANDARD 14 MATERIAL. COMPLY WITH ANSI/ NSF STANDARD 61 AND PE4710. BUTT FUSION MECHANICAL JOINT ADAPTERS SHALL HAVE INTERNAL STAINLESS STEEL STIFFENERS.
  2. SAWCUT EXISTING 8" WATER MAIN. FILE END SURFACES SMOOTH.
  3. CONTRACTOR TO COORDINATE WITH UTILITIES, INC. PRIOR TO CONNECTION TO AND ABANDONING OF EXISTING WATER MAIN TO CONFIRM CORRECT WATER MAIN TIE IN LOCATION. CONNECTION SHALL BE MADE IN THE PRESENCE OF THE UTILITIES, INC. REPRESENTATIVE.



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DESIGNED	ATL	NO.	DATE
CHECKED	FJZ	NO.	DATE
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CHECKED	FJZ	NO.	DATE
DATE	04/29/21	SHEET	28

NO.	DATE	BY	REVISION DESCRIPTION

**PLAN & PROFILE**  
**LA 1077 CONNECTOR**  
**202+00.00 TO 207+16.21**  
 LA 1077/LA 21 CONNECTOR ROAD

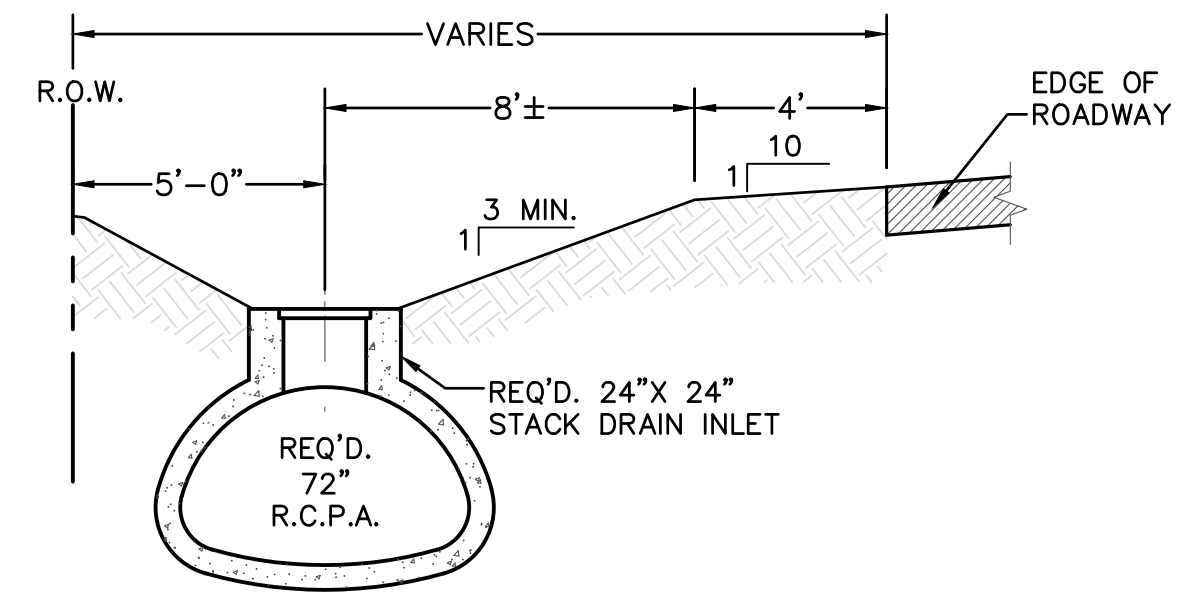
Project Number:  
 RCLC No: 714-08



04/29/21  
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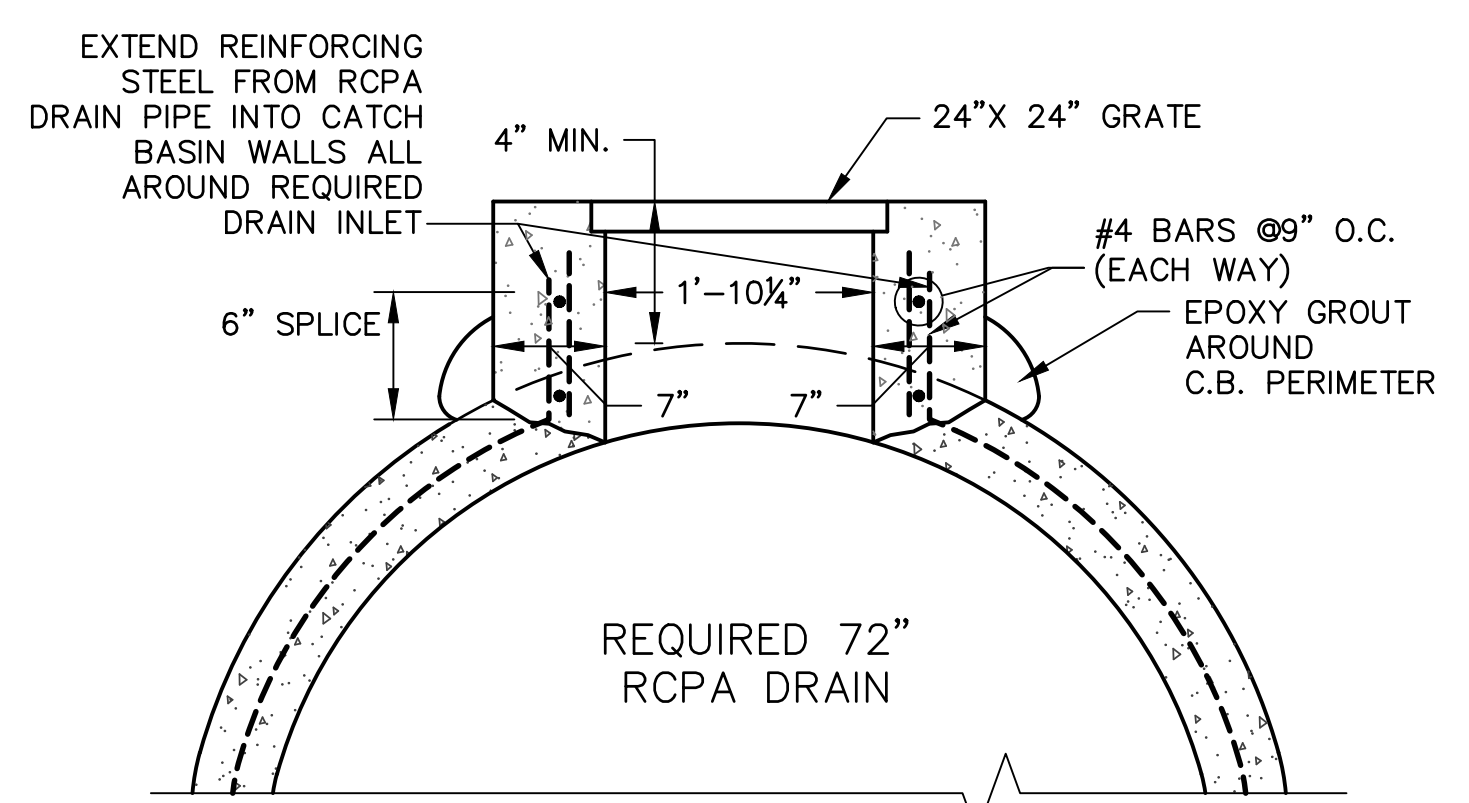
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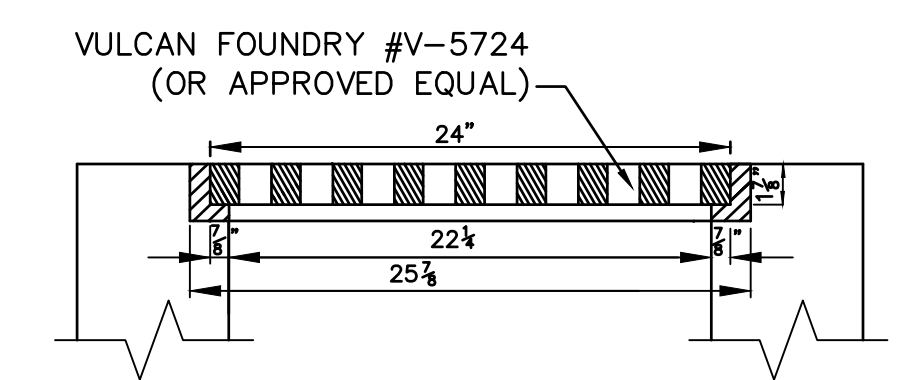


**72" RCPA AND OPEN DITCH DETAIL ALONG OCHSNER BLVD. (LOOKING DOWNSTREAM)**  
SCALE: 1" = 4'

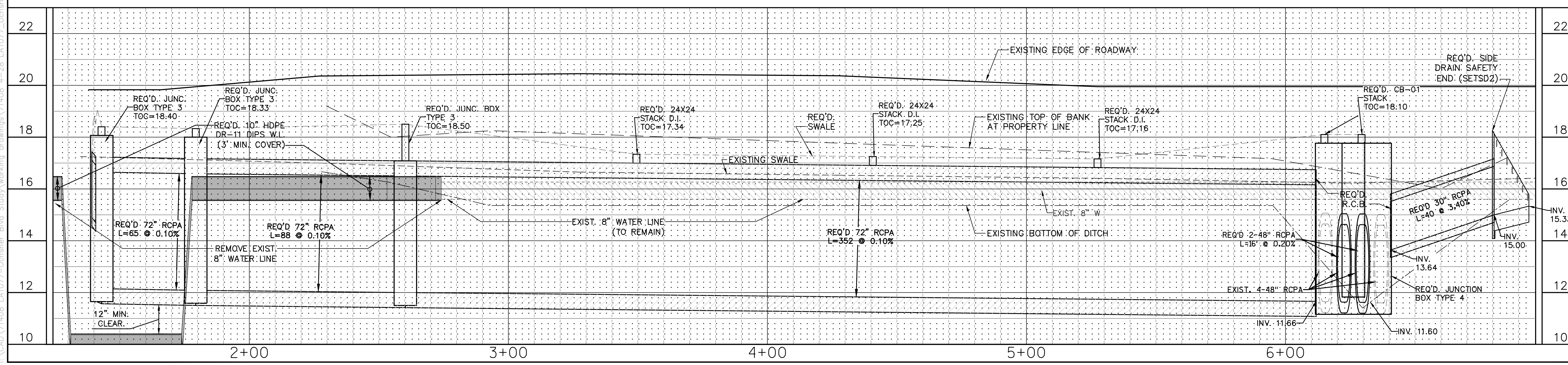
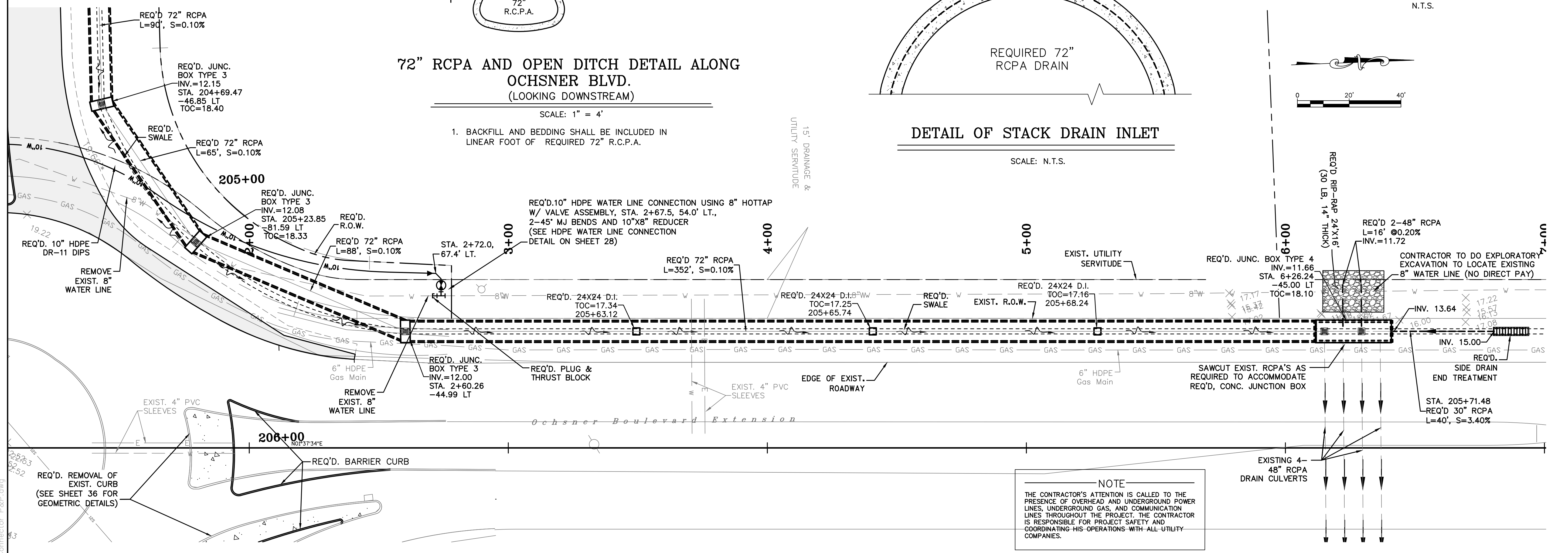
1. BACKFILL AND BEDDING SHALL BE INCLUDED IN LINEAR FOOT OF REQUIRED 72" R.C.P.A.



**DETAIL OF STACK DRAIN INLET**  
SCALE: N.T.S.



**FRAME AND GRATE DETAIL FOR STACK DRAIN INLET**  
N.T.S.



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985-727-4447

DESIGNED	ATL	BY	
CHECKED	FJZ	DATE	04/29/21
REVISION		DESCRIPTION	
NO.	DATE	BY	

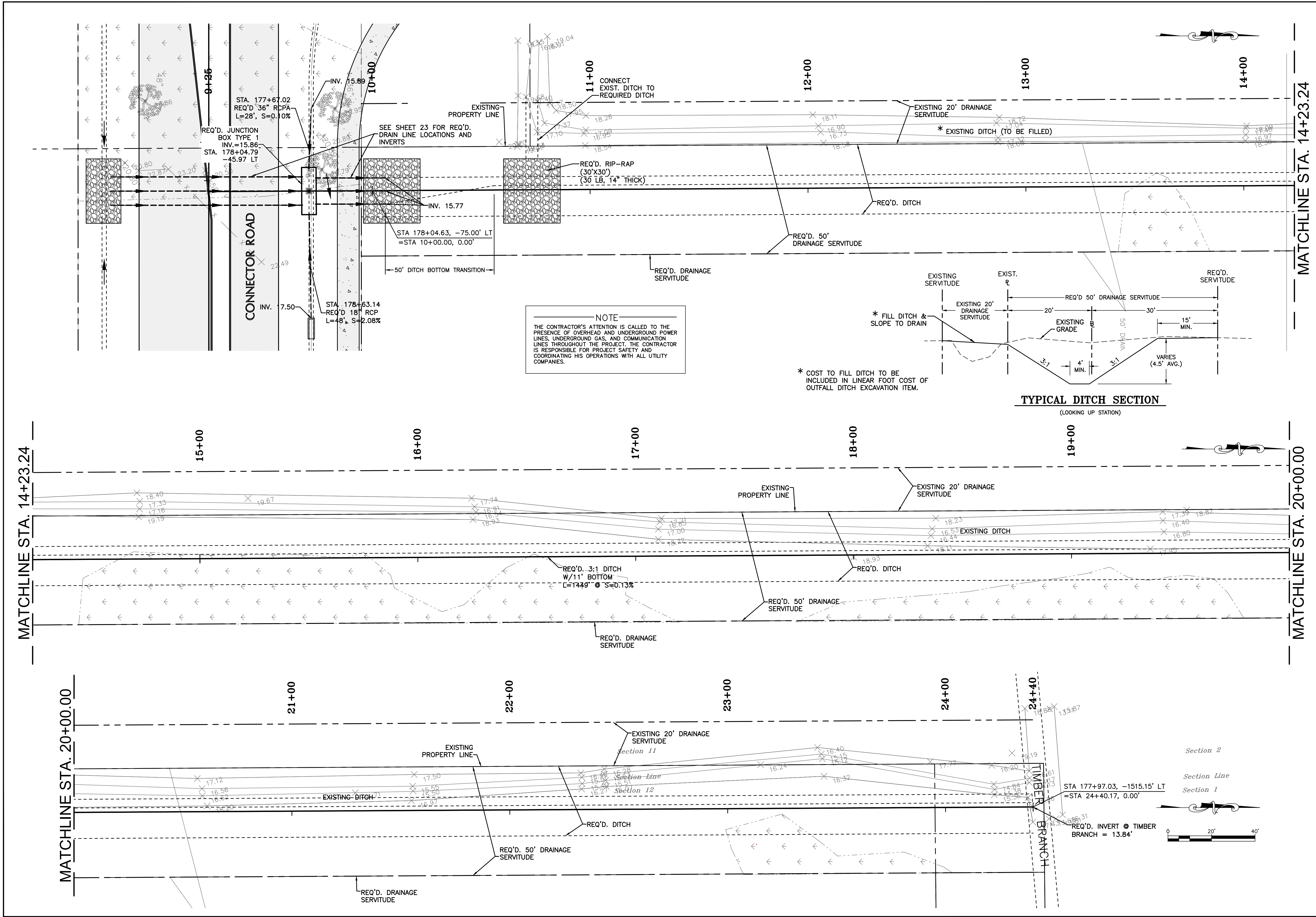
**BOX CULVERT LAYOUT**  
**OCHSNER BLVD**  
LA 1077/LA 21 CONNECTOR ROAD

Project Number:  
RCLC No 714-08



04/29/2021  
Sheet Number:  
**29**





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LA 70113  
Fax: 985-727-4447

DESIGNED	ATL	NO.	DATE	BY
CHECKED	FJZ			
DETAILED	LBW			
CHECKED	FJZ			
DATE	04/29/21			
SHEET	30			

NO.	DATE	BY	REVISION DESCRIPTION

**REQUIRED DRAINAGE DITCH**

LA 1077/LA 21 CONNECTOR ROAD

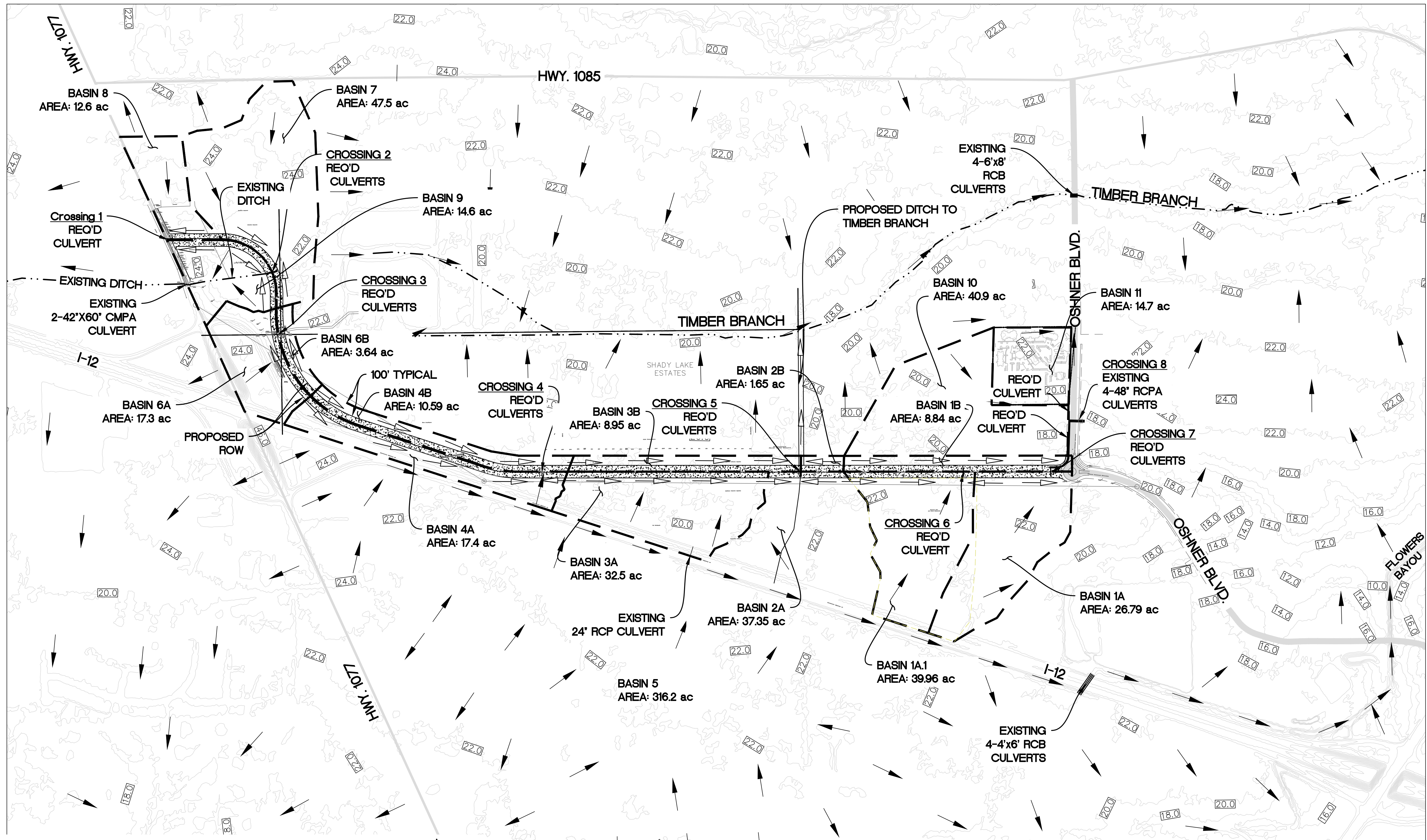
Project Number:  
RCLC No: 714-08



04/29/2021

Sheet Number:  
**30**





BASINS 1B, 2B, 3B, 4B, AND 6B WERE GIVEN A WIDTH OF 100' ALONG THE NORTHERN LENGTH OF THE CONNECTOR ROAD TO ACCOMMODATE INCIDENTAL RUNOFF THAT MAY BE GRADED TO FLOW TOWARD THE CONNECTOR ROAD DURING DEVELOPMENT OF THOSE PROPERTIES.

- 20.0 CONTOUR ELEVATION FROM LIDAR
- SURFACE FLOW DIRECTION
- BASIN RIDGELINE
- REQUIRED DITCH FLOW



SCALE : 1"=500'

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DESIGNED	CHECKED	DATE	BY
GTA	FUZ	04/29/21	31
Detailed	Checked		

**REQUIRED DRAINAGE  
MAP (100 YEAR)**  
LA 1077/LA 21 CONNECTOR ROAD

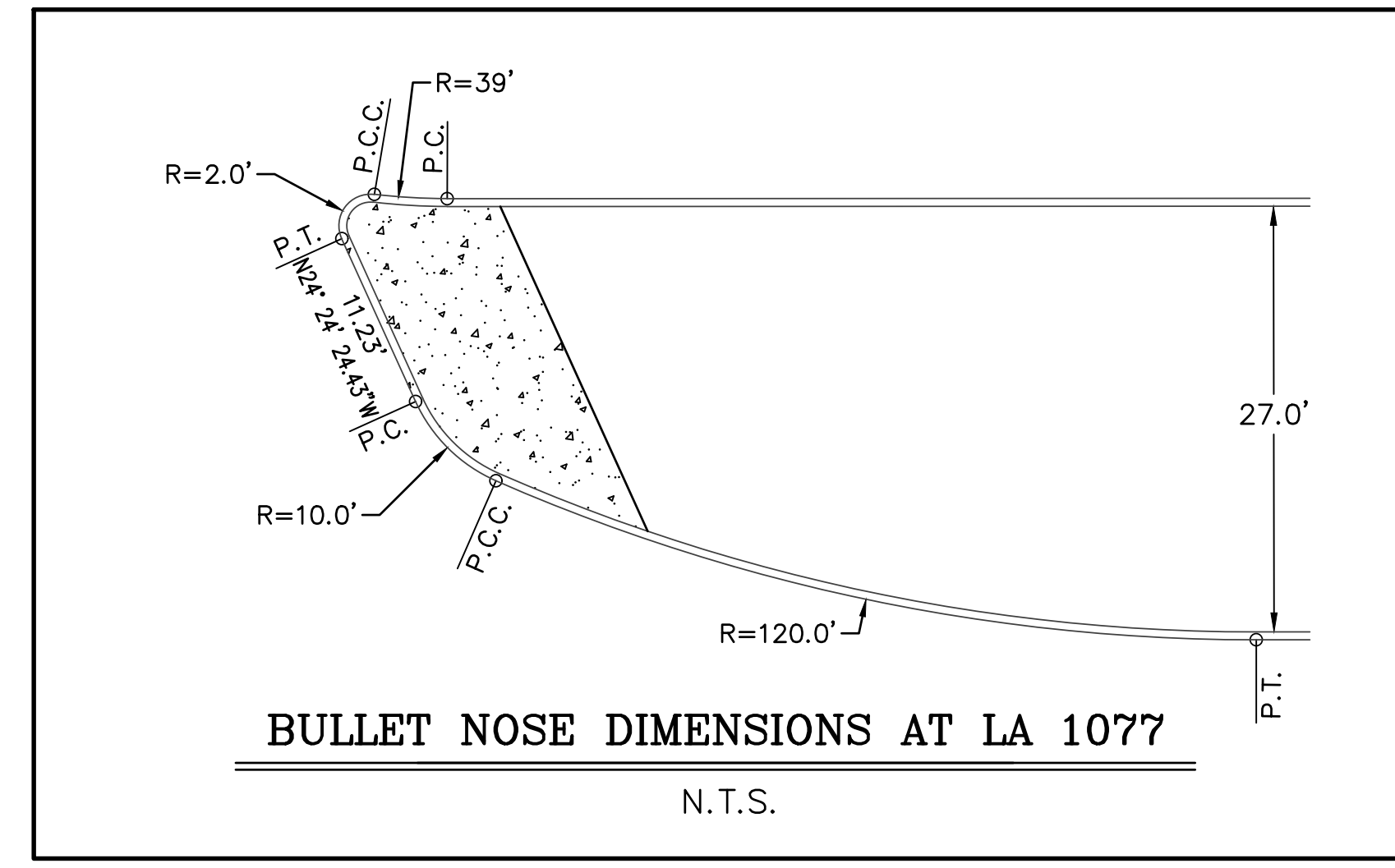
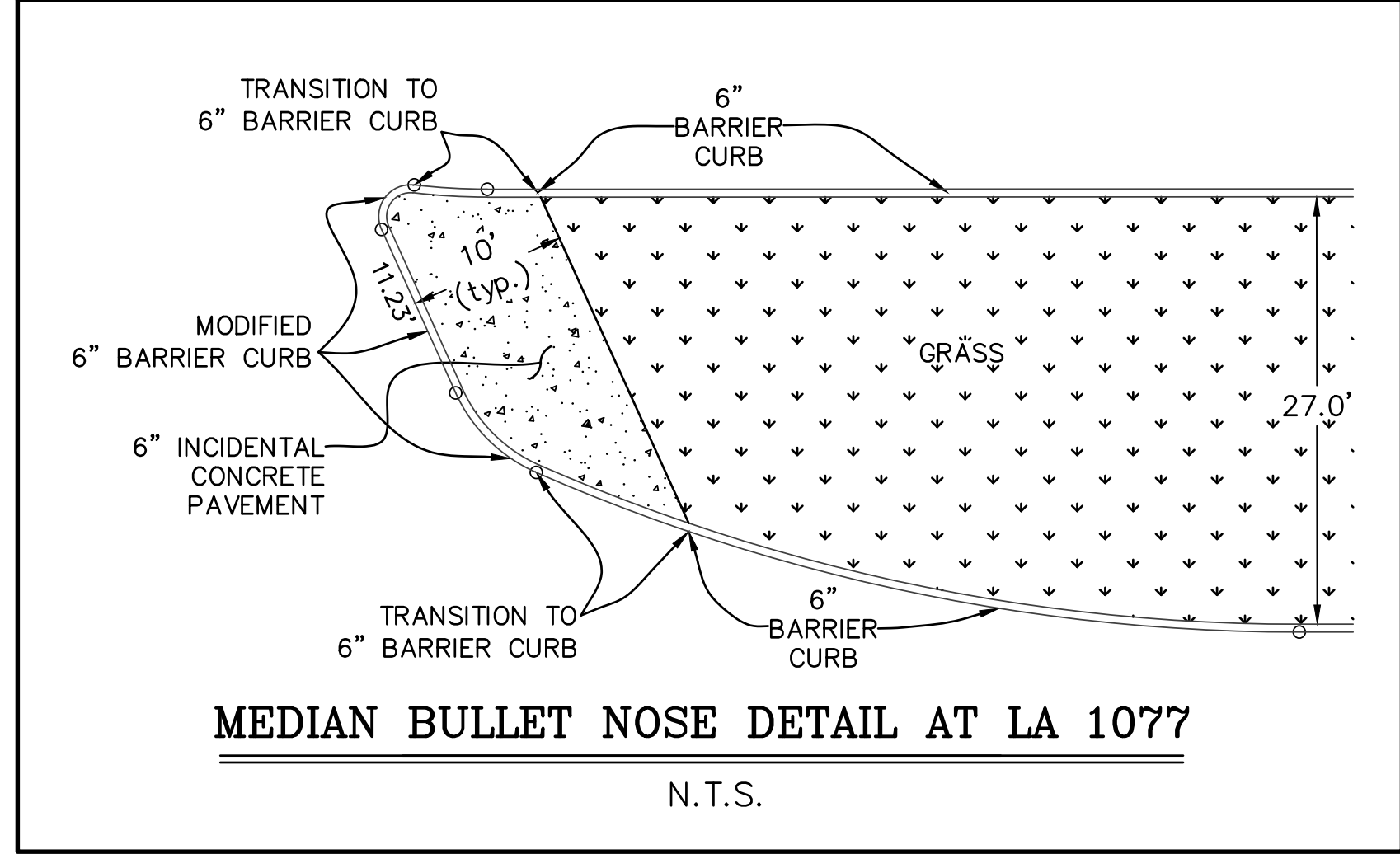
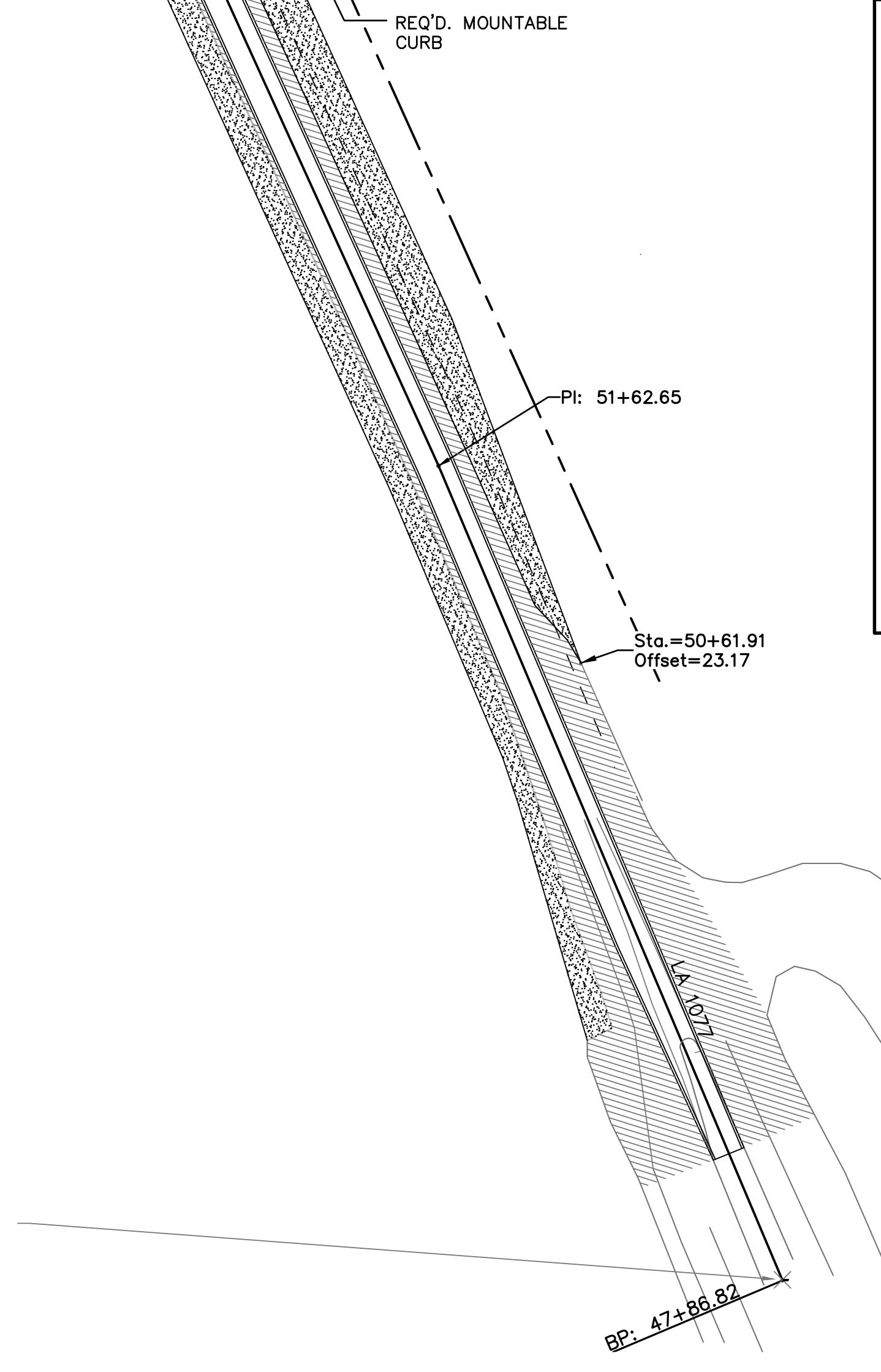
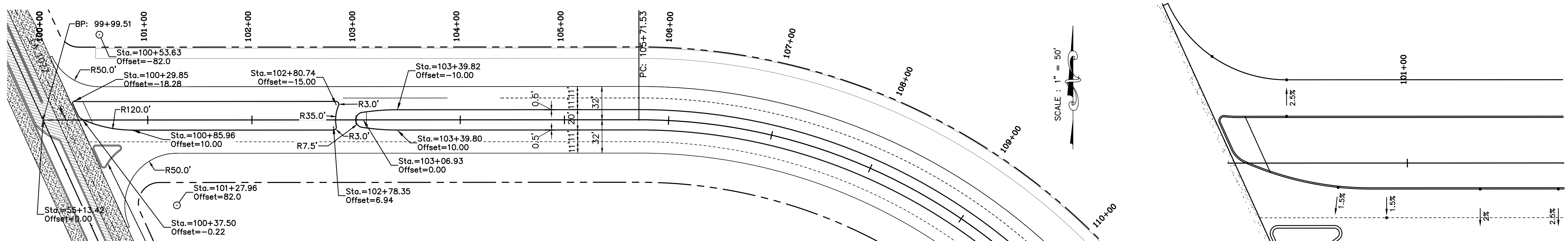
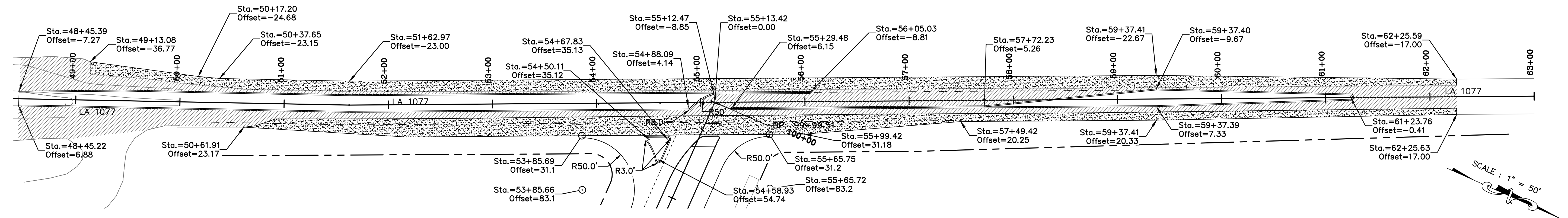
Project Number:  
RCLC No: 714-08



04/29/2021  
Sheet Number:  
**31**



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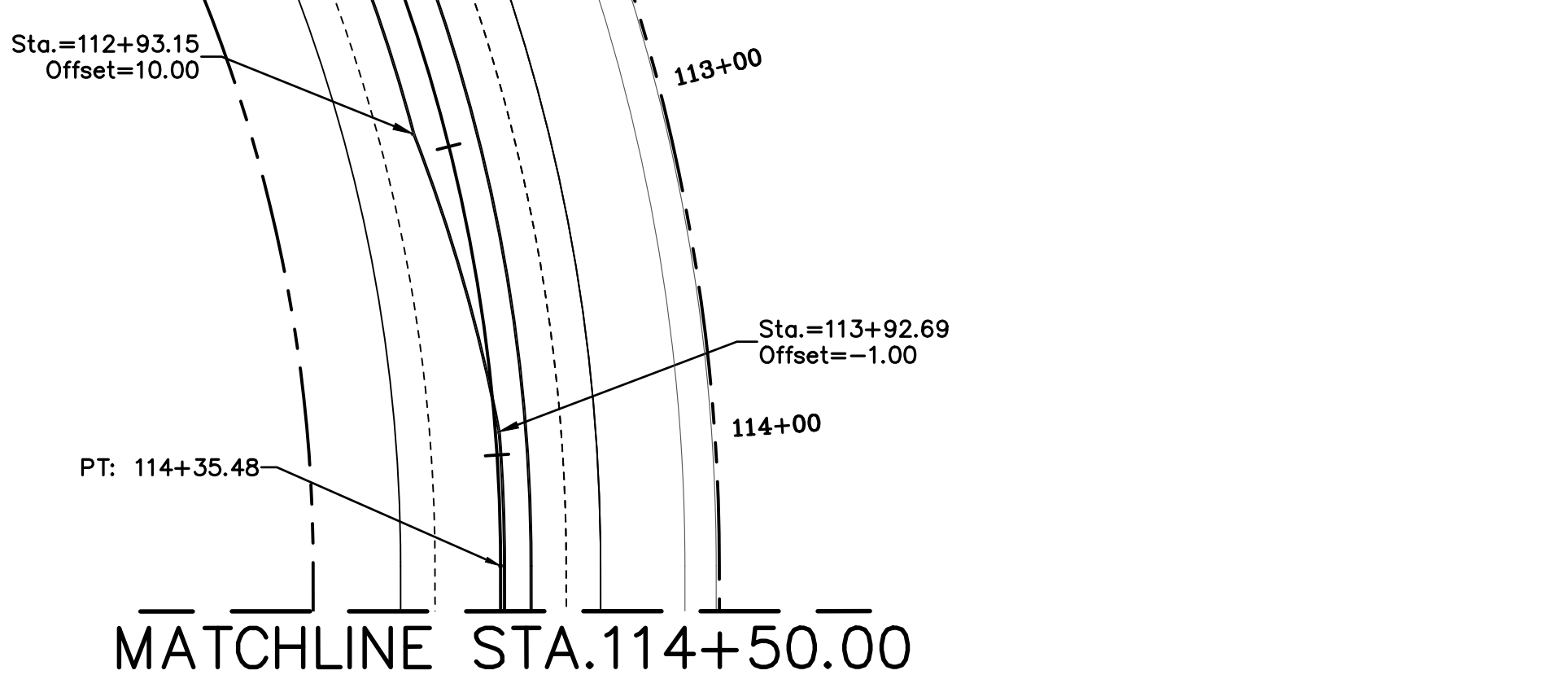
**CURVE NO. 1**  
 PI STA = 111+21.55  
 $\Delta = 90^{\circ}00'05''$   
 T = 550.01'  
 L = 863.95'  
 R = 550.00'  
 D =  $10^{\circ}25'03''$

SCALE: 1" = 50'

**GRAPHIC GRADES AT LA 1077**  
 SCALE: 1" = 20'

**LEGEND**

REQ'D. PAVEMENT GRADE	10.00
REQ'D. TOP OF CURB	10.50
REQ'D. PAVEMENT GRADE	10.00



**MATCHLINE STA. 114+50.00**

- NOTES:**
- FOR BASE BID CONCRETE PAVEMENT ALONG CONNECTOR ROAD, STATION REFERENCES ARE TO EDGE OF PAVEMENT, FACE OF CURB OR CENTER OF RADIUS. SEE TYPICAL SECTIONS FOR DETAILS.
  - FOR ALTERNATE 1 BID ASPHALT PAVEMENT ALONG CONNECTOR ROAD, STATION REFERENCES ARE TO EDGE OF PAVEMENT, EDGE OF CURB AND GUTTER OR CENTER OF RADIUS. SEE TYPICAL SECTIONS FOR DETAILS.



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DESIGNED	ATL	DATE	04/29/21
CHECKED	FJZ	NO.	32
DETAILED	LBW	REVISION DESCRIPTION	
CHECKED	FJZ	DATE	

	BY	NO.	DATE

**GEOMETRIC DETAILS**  
 LA 1077/LA 21 CONNECTOR ROAD

Project Number:  
 RCLC No: 714-08

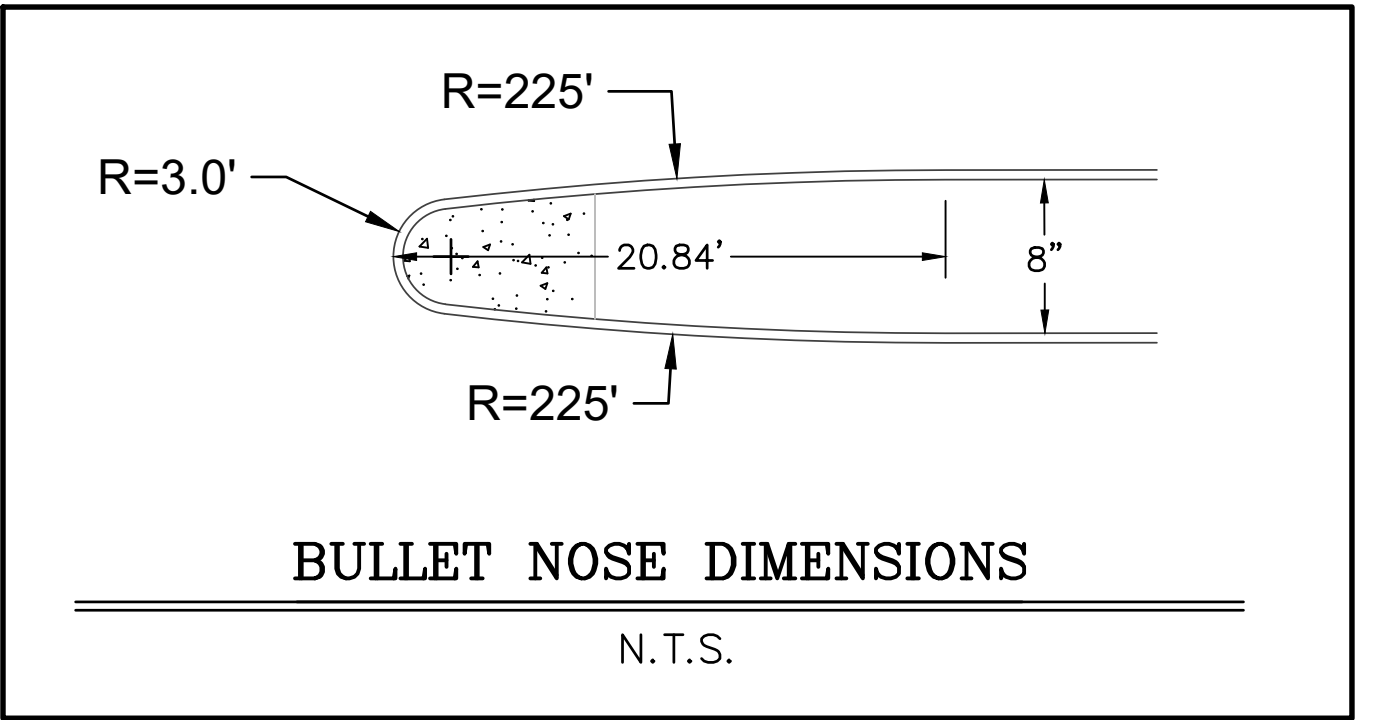
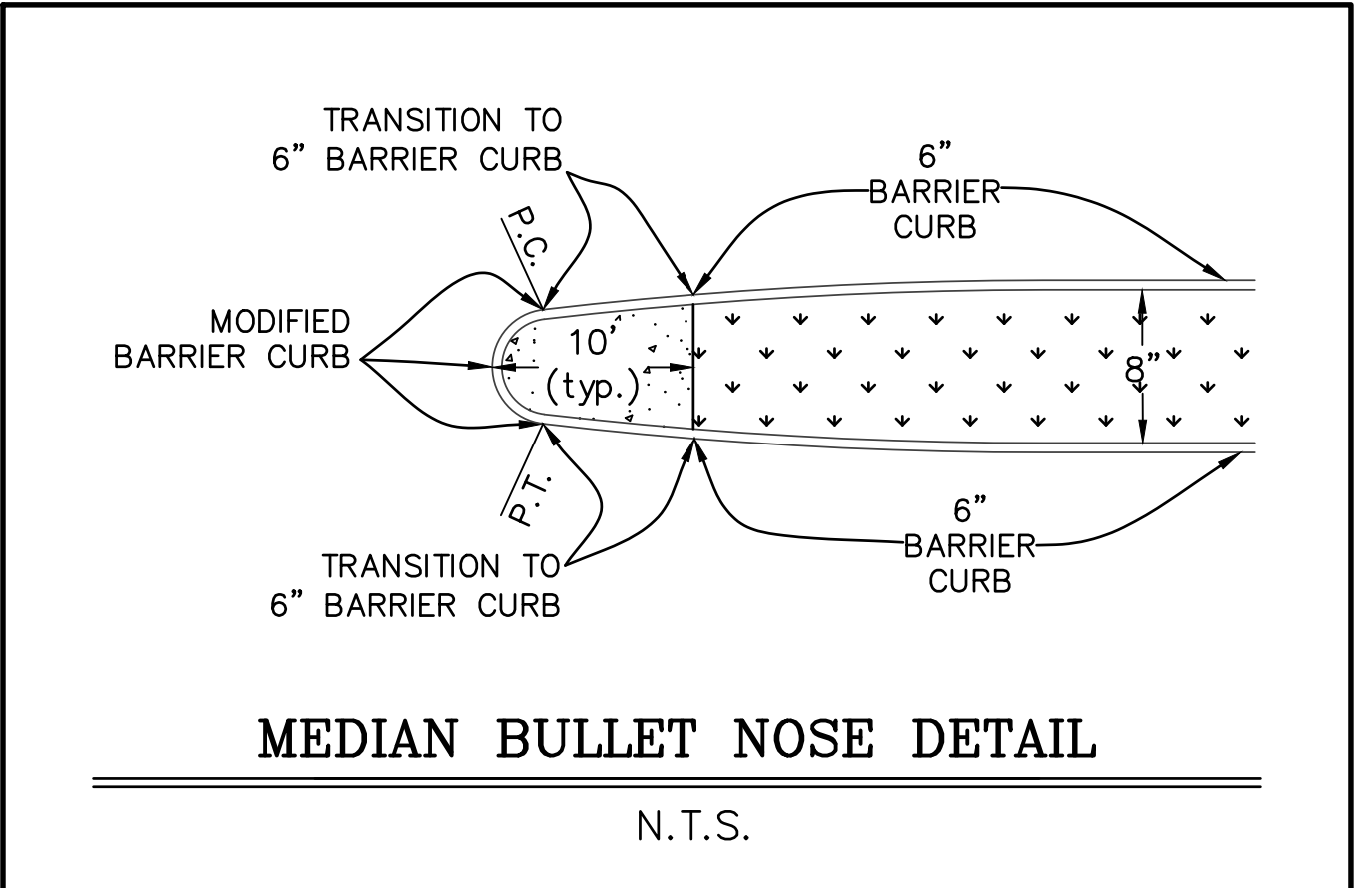
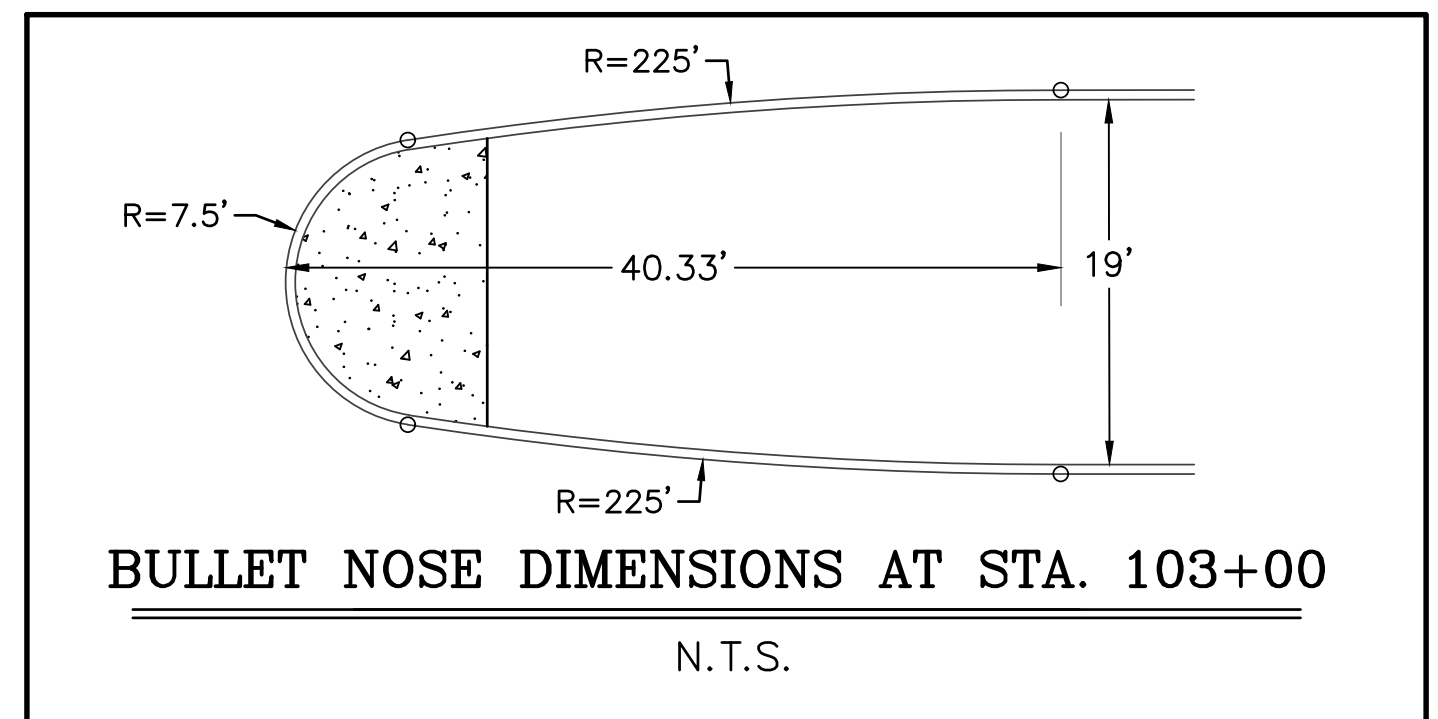
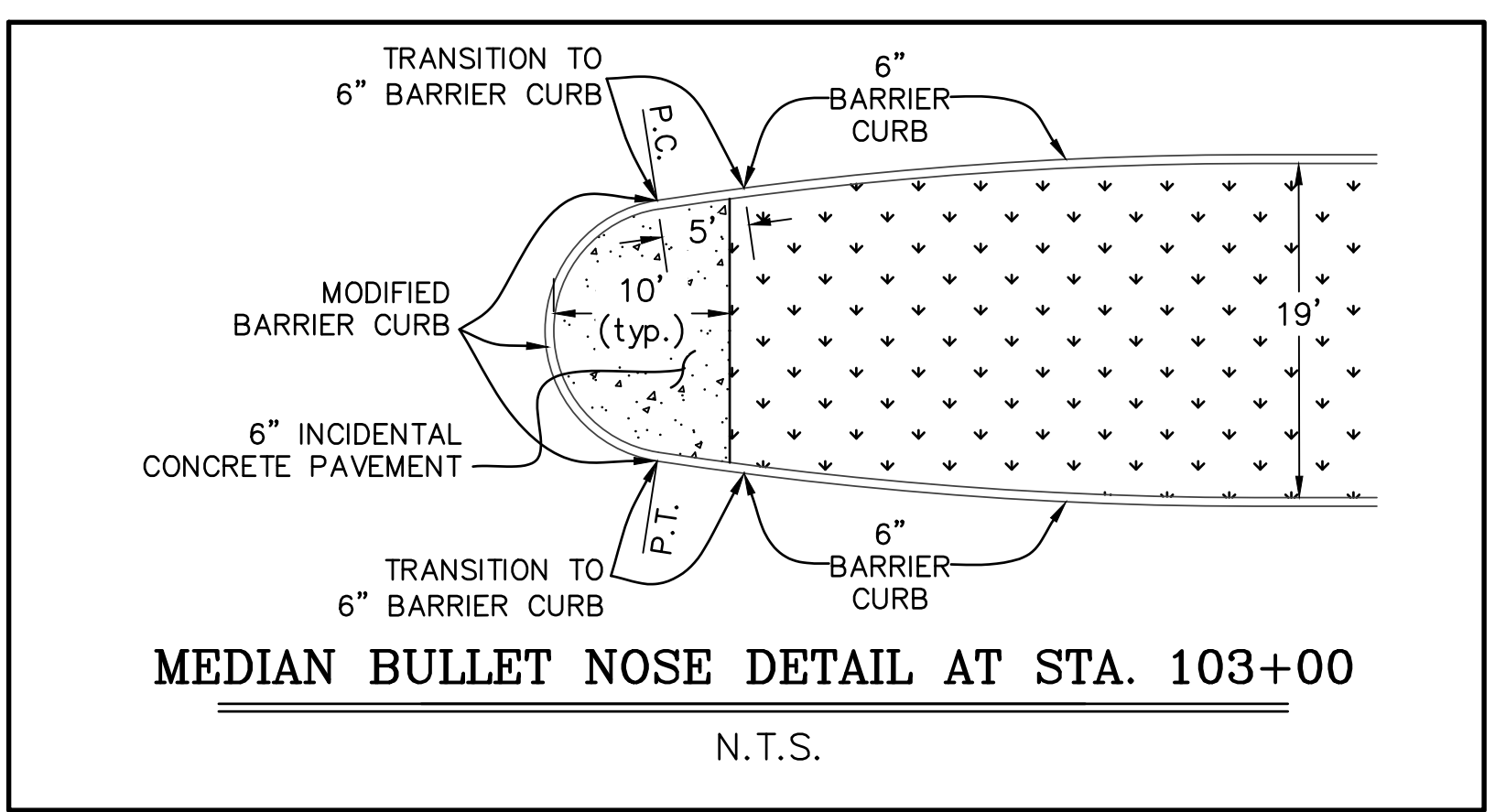


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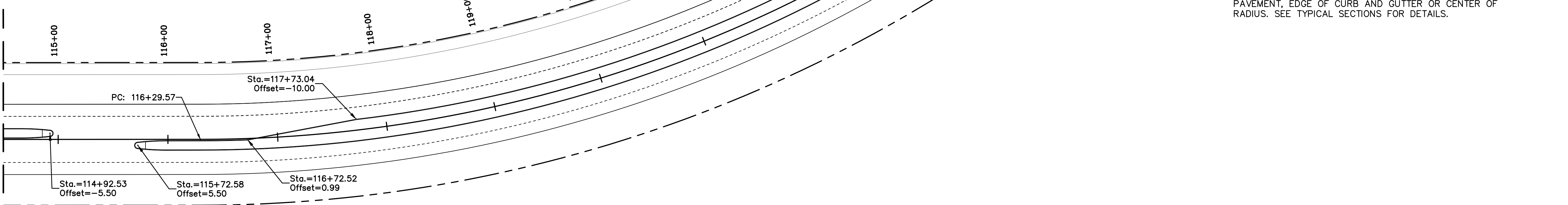
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MATCHLINE STA. 114+50.00



SCALE : 1" = 50'

**CURVE NO. 2**  
 PI STA = 125+19.46  
 $\Delta = 71^\circ 59' 31"$   
 T = 889.88'  
 L = 1539.21'  
 R = 1225.00'  
 D =  $4^\circ 40' 38"$



NOTES:

- FOR BASE BID CONCRETE PAVEMENT ALONG CONNECTOR ROAD, STATION REFERENCES ARE TO EDGE OF PAVEMENT, FACE OF CURB OR CENTER OF RADIUS. SEE TYPICAL SECTIONS FOR DETAILS.
- FOR ALTERNATE 1 BID ASPHALT PAVEMENT ALONG CONNECTOR ROAD, STATION REFERENCES ARE TO EDGE OF PAVEMENT, EDGE OF CURB AND GUTTER OR CENTER OF RADIUS. SEE TYPICAL SECTIONS FOR DETAILS.



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DESIGNED	CHECKED	DATE	BY
ATL	FJZ	04/29/21	33
LBW	FJZ		
REVISION DESCRIPTION			

**GEOMETRIC DETAILS**  
 LA 1077/LA 21 CONNECTOR ROAD

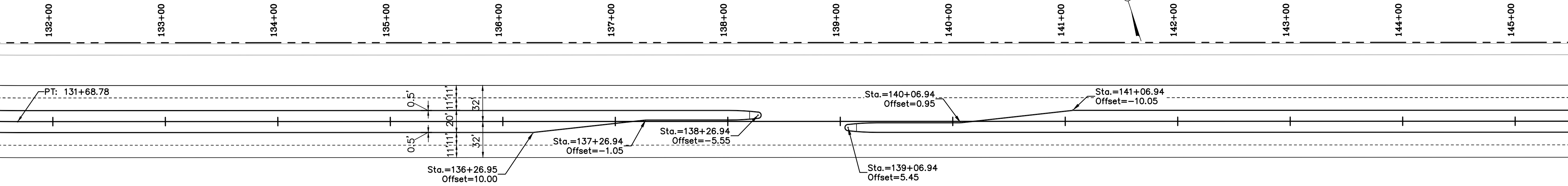
Project Number:  
 RCLC No: 714-08



04/29/2021  
 Sheet Number:  
**33**

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MATCHLINE STA. 131+50.00



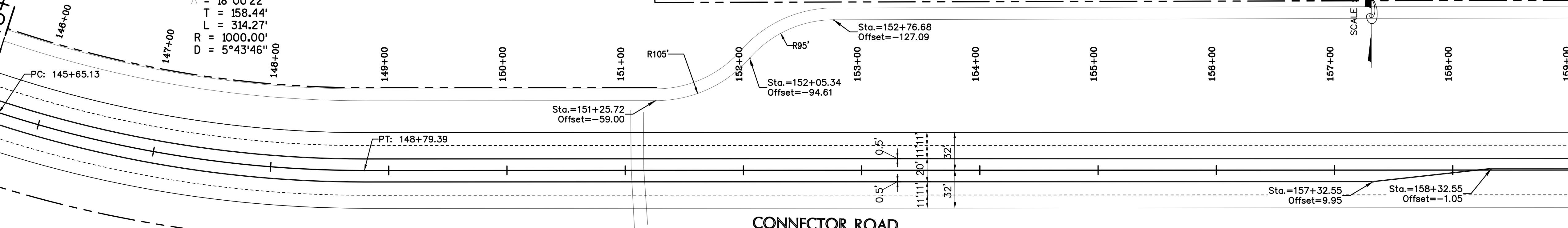
SCALE: 1" = 50'

MATCHLINE STA. 145+50.00

- NOTES:
1. FOR BASE BID CONCRETE PAVEMENT ALONG CONNECTOR ROAD, STATION REFERENCES ARE TO EDGE OF PAVEMENT, FACE OF CURB OR CENTER OF RADIUS. SEE TYPICAL SECTIONS FOR DETAILS.
  2. FOR ALTERNATE 1 BID ASPHALT PAVEMENT ALONG CONNECTOR ROAD, STATION REFERENCES ARE TO EDGE OF PAVEMENT, EDGE OF CURB AND GUTTER OR CENTER OF RADIUS. SEE TYPICAL SECTIONS FOR DETAILS.

MATCHLINE STA. 145+50.00

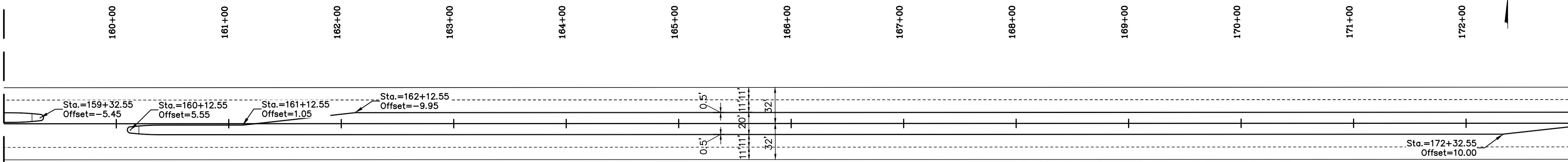
**CURVE NO. 3**  
 PI STA = 147+23.57  
 $\Delta = 18^{\circ}00'22''$   
 T = 158.44'  
 L = 314.27'  
 R = 1000.00'  
 D = 5^{\circ}43'46''



SCALE: 1" = 50'

MATCHLINE STA. 159+00.00

MATCHLINE STA. 159+00.00



SCALE: 1" = 50'

MATCHLINE STA. 173+00.00



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				04/29/21	34		

**GEOMETRIC DETAILS**  
 LA 1077/LA 21 CONNECTOR ROAD

Project Number:  
 RCLC No: 714-08



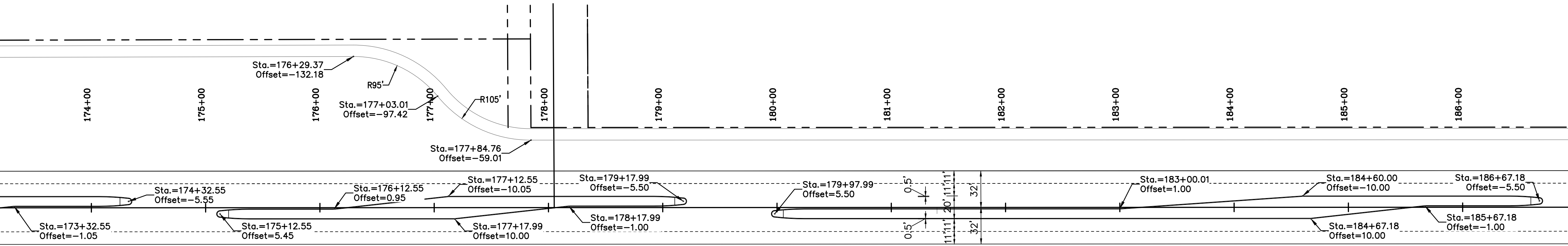
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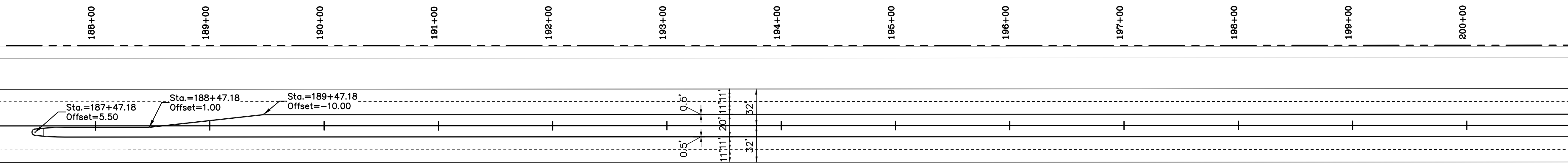
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MATCHLINE STA. 173+00.00

MATCHLINE STA. 187+00.00



CONNECTOR ROAD



- NOTES:
1. FOR BASE BID CONCRETE PAVEMENT ALONG CONNECTOR ROAD, STATION REFERENCES ARE TO EDGE OF PAVEMENT, FACE OF CURB OR CENTER OF RADIUS. SEE TYPICAL SECTIONS FOR DETAILS.
  2. FOR ALTERNATE 1 BID ASPHALT PAVEMENT ALONG CONNECTOR ROAD, STATION REFERENCES ARE TO EDGE OF PAVEMENT, EDGE OF CURB AND GUTTER OR CENTER OF RADIUS. SEE TYPICAL SECTIONS FOR DETAILS.

MATCHLINE STA. 187+00.00

MATCHLINE STA. 201+00.00

**GEOMETRIC DETAILS**  
LA 1077/LA 21 CONNECTOR ROAD

Project Number:  
RCLC No: 714-08

STATE OF LOUISIANA  
FRANK ZEMMER  
Licence No. 28232  
PROFESSIONAL ENGINEER  
04/29/2021  
Sheet Number:  
**35**

DESIGNED	ATL	DATE	NO.	DESCRIPTION	BY
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DATE		04/29/21			
SHEET			35		

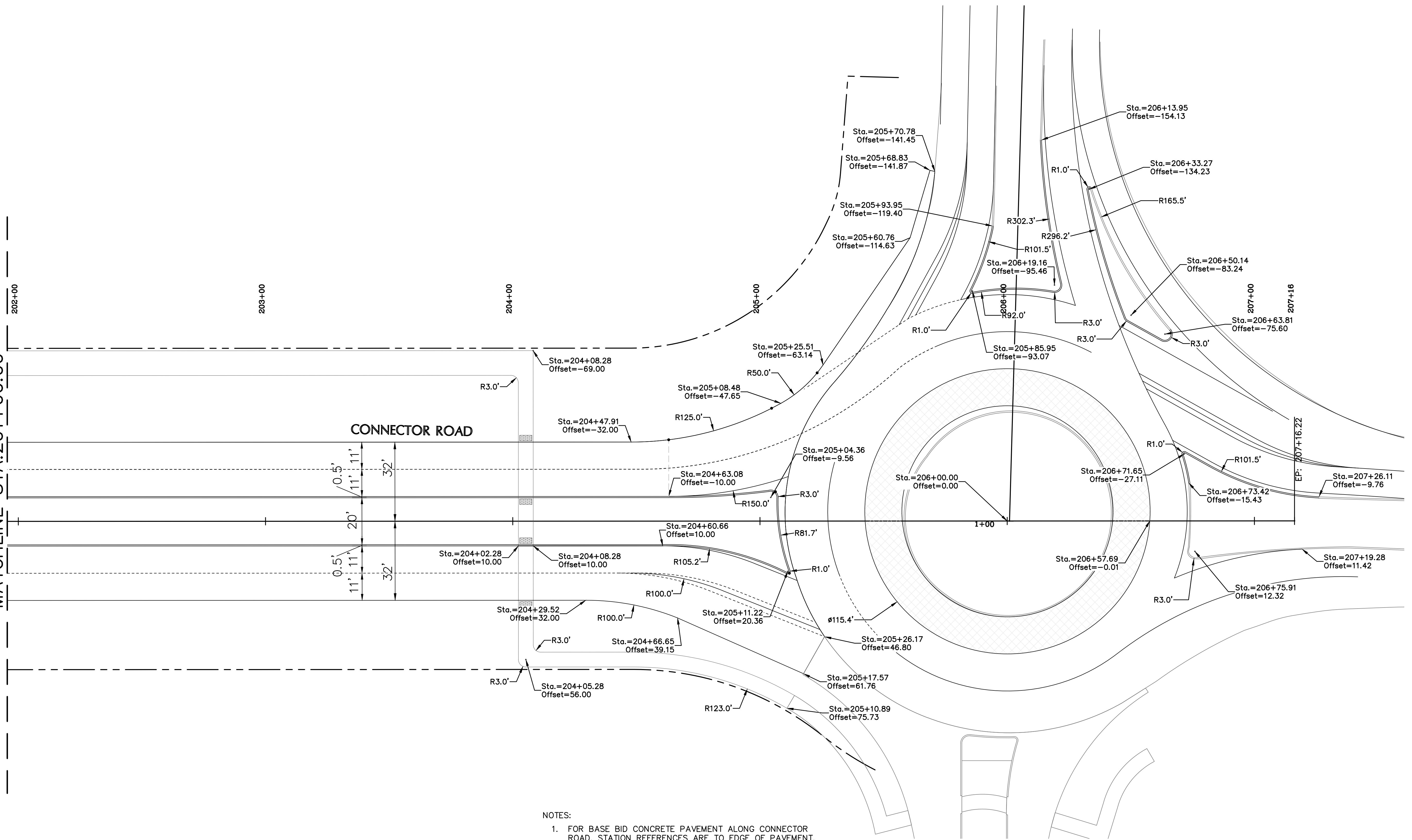
**RICHARD C. LAMBERT**  
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New Orleans, LA 70471  
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985-727-4447





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MATCHLINE STA. 201+00.00



NOTES:

1. FOR BASE BID CONCRETE PAVEMENT ALONG CONNECTOR ROAD, STATION REFERENCES ARE TO EDGE OF PAVEMENT, FACE OF CURB OR CENTER OF RADIUS. SEE TYPICAL SECTIONS FOR DETAILS.
2. FOR ALTERNATE 1 BID ASPHALT PAVEMENT ALONG CONNECTOR ROAD, STATION REFERENCES ARE TO EDGE OF PAVEMENT, EDGE OF CURB AND GUTTER OR CENTER OF RADIUS. SEE TYPICAL SECTIONS FOR DETAILS.

LEGEND

REQ'D. PAVEMENT GRADE	(10.00)
REQ'D. TOP OF CURB	(10.50)
REQ'D. PAVEMENT GRADE	(10.00)

SCALE : 1" = 20'



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DESIGNED	ATL	DATE	04/29/21
CHECKED	FJZ	SHEET	36
DETAILED	LBW	BY	
CHECKED	FJZ	REVISION DESCRIPTION	

GEOMETRIC DETAILS

LA 1077/LA 21 CONNECTOR ROAD

Project Number:  
RCLC No: 714-08

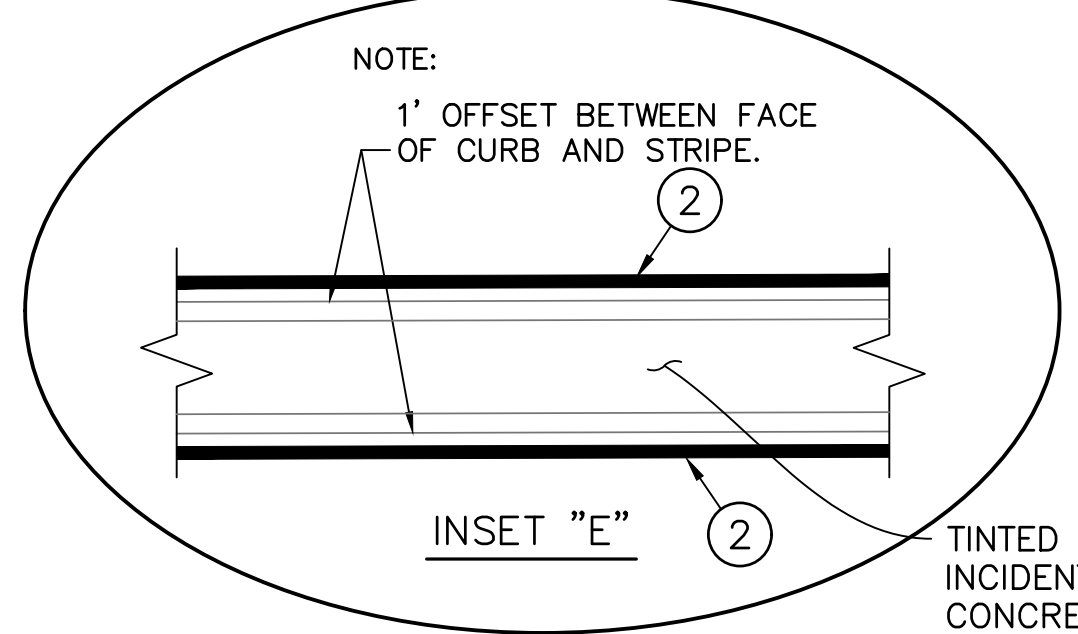
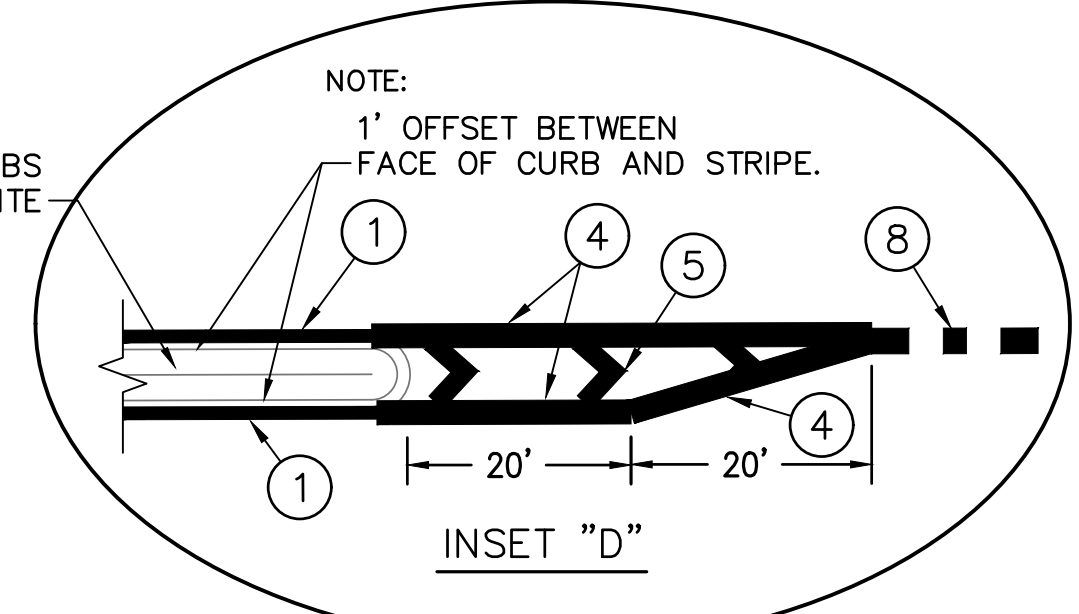
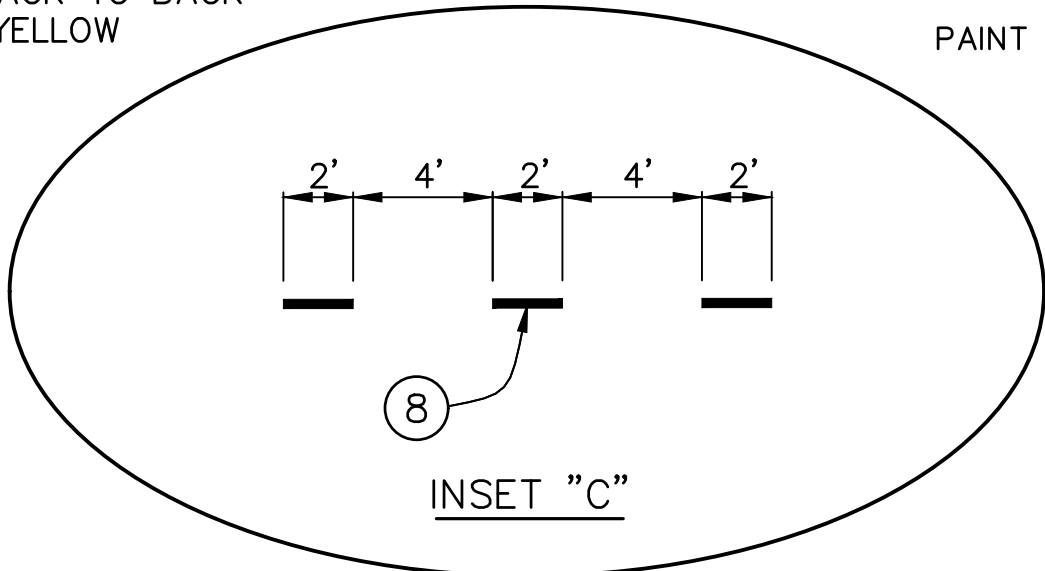
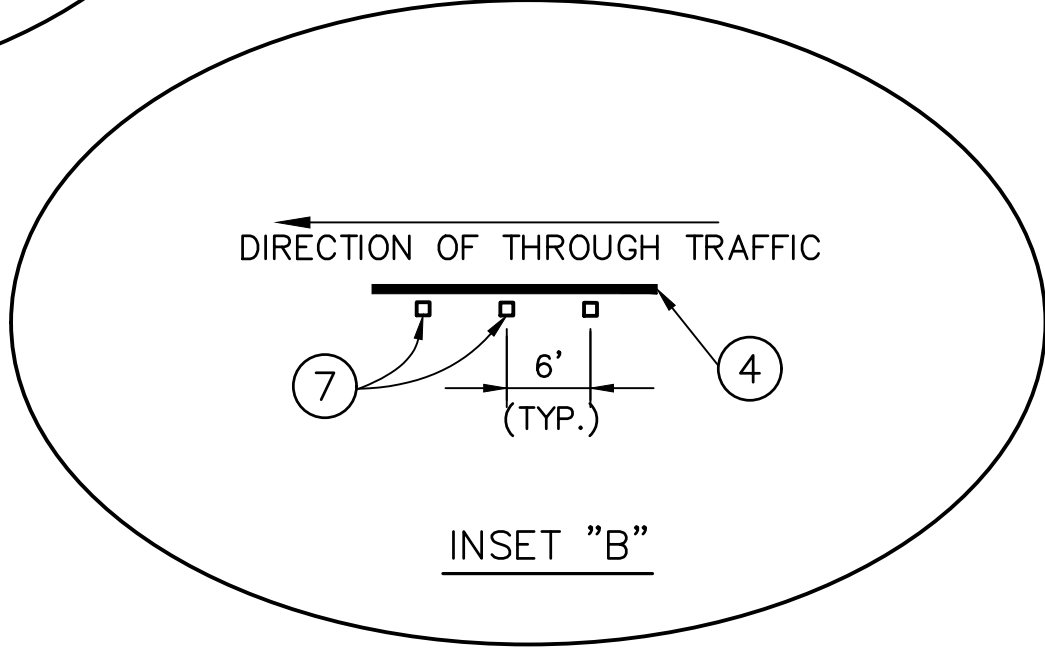
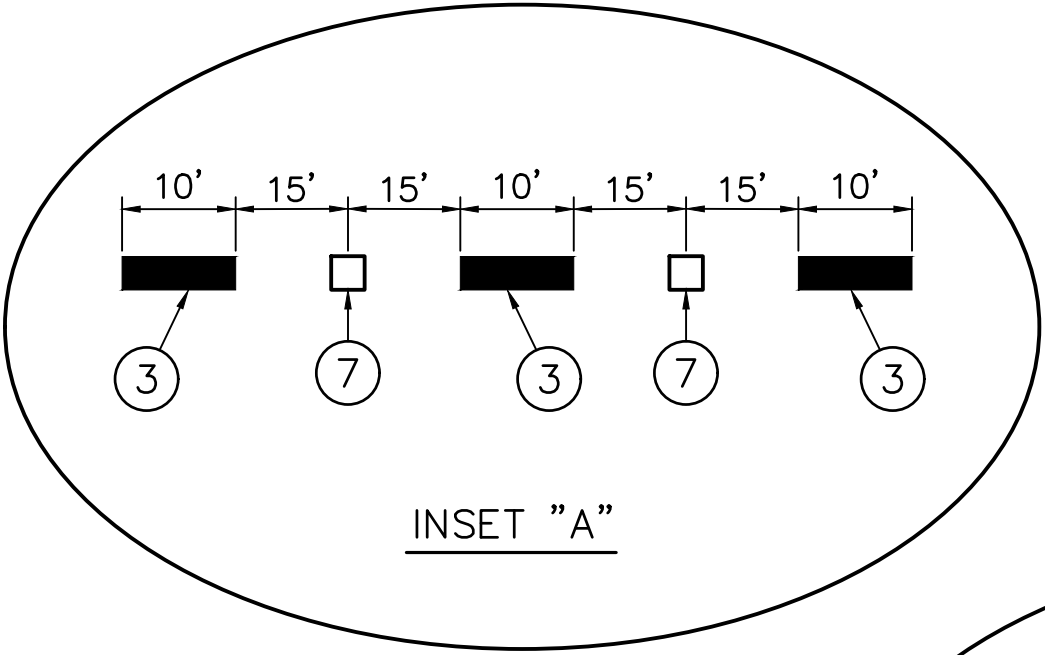
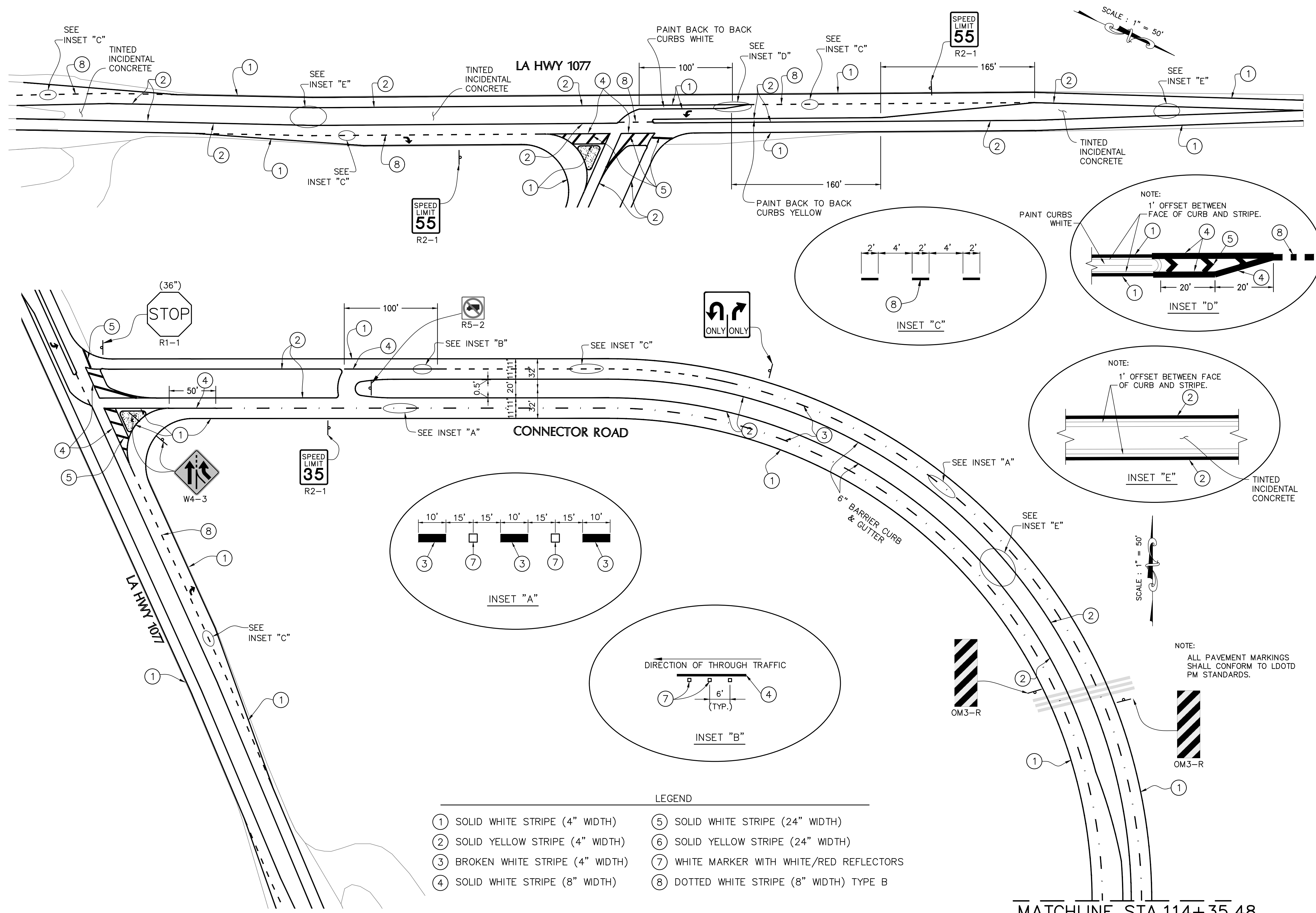


04/29/2021

Sheet Number:



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- LEGEND**
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  - ② SOLID YELLOW STRIPE (4" WIDTH)
  - ③ BROKEN WHITE STRIPE (4" WIDTH)
  - ④ SOLID WHITE STRIPE (8" WIDTH)
  - ⑤ SOLID WHITE STRIPE (24" WIDTH)
  - ⑥ SOLID YELLOW STRIPE (24" WIDTH)
  - ⑦ WHITE MARKER WITH WHITE/RED REFLECTORS
  - ⑧ DOTTED WHITE STRIPE (8" WIDTH) TYPE B

MATCHLINE STA. 114+35.48

DESIGNED	ATL	NO.	37
CHECKED	FJZ	DATE	04/29/21
DETAILED	LBW	REVISION	DESCRIPTION
CHECKED	FJZ	NO.	DATE

**PAVEMENT MARKING  
AND SIGNING LAYOUT**  
LA 1077/LA 21 CONNECTOR ROAD

Project Number:  
RCLC No: 714-08



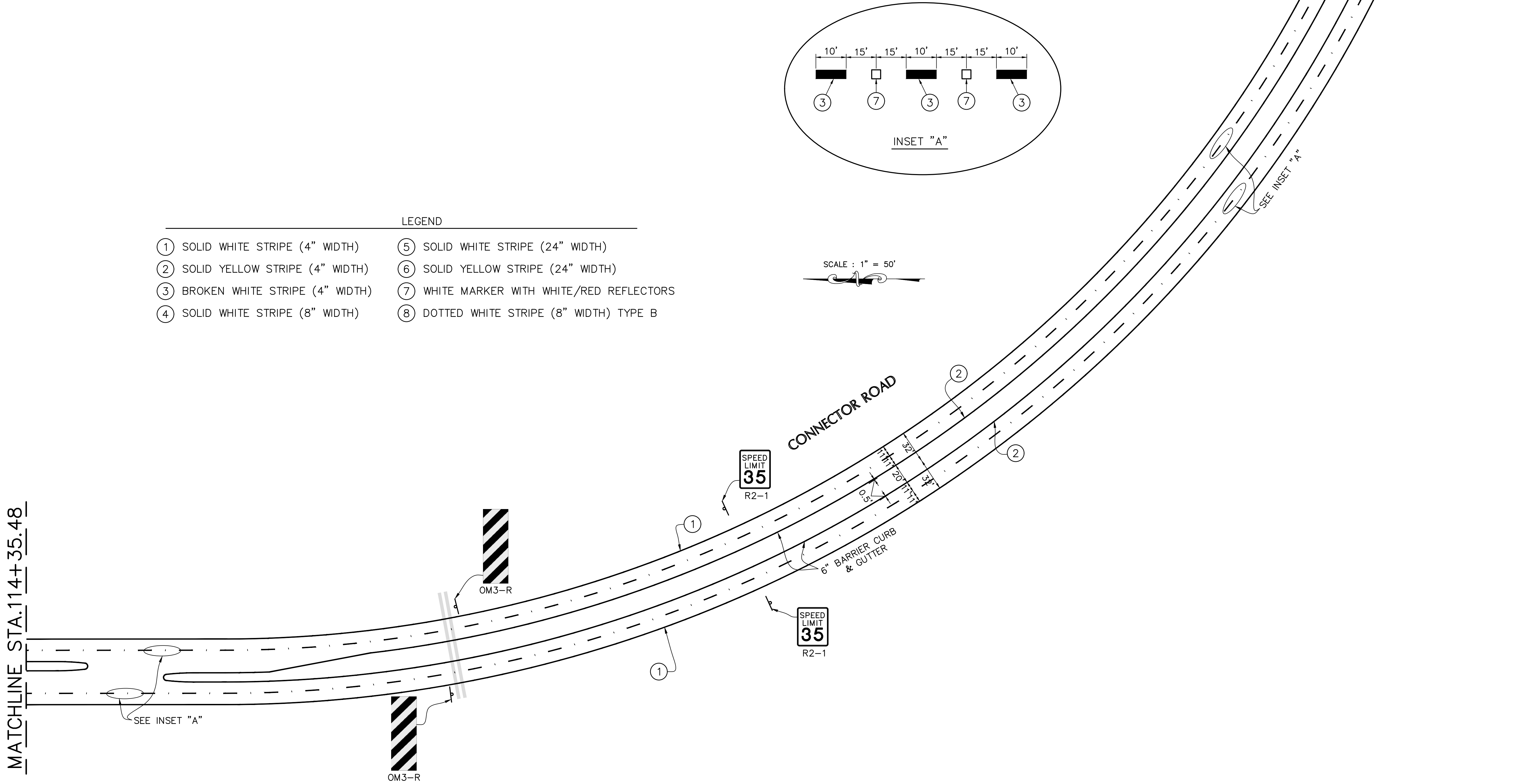
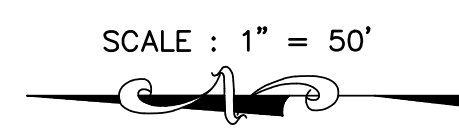
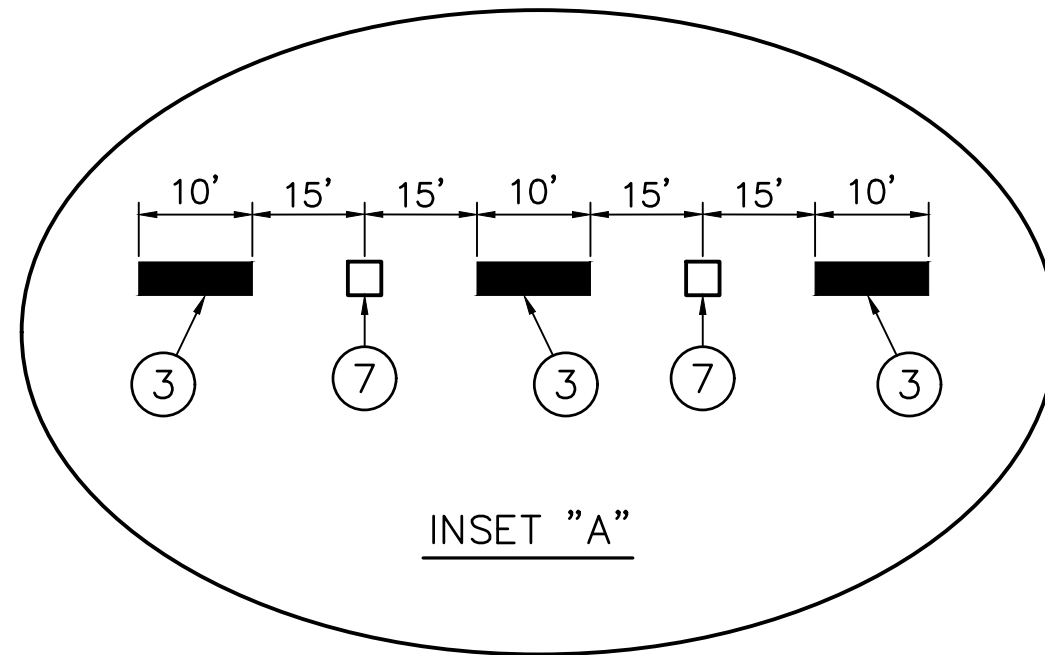
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MATCHLINE STA. 114+35.48

MATCHLINE STA. 131+68.78

- LEGEND
- ① SOLID WHITE STRIPE (4" WIDTH)
  - ② SOLID YELLOW STRIPE (4" WIDTH)
  - ③ BROKEN WHITE STRIPE (4" WIDTH)
  - ④ SOLID WHITE STRIPE (8" WIDTH)
  - ⑤ SOLID WHITE STRIPE (24" WIDTH)
  - ⑥ SOLID YELLOW STRIPE (24" WIDTH)
  - ⑦ WHITE MARKER WITH WHITE/RED REFLECTORS
  - ⑧ DOTTED WHITE STRIPE (8" WIDTH) TYPE B



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DESIGNED	ATL	NO.	DATE
CHECKED	FJZ		
DETAILED	LBW	NO.	DATE
CHECKED	FJZ		
DATE	DATE	SHEET	BY
04/29/21		38	

**PAVEMENT MARKING AND SIGNING LAYOUT**  
LA 1077/LA 21 CONNECTOR ROAD

Project Number:  
RCLC No: 714-08



04/29/2021  
Sheet Number:  
**38**



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MATCHLINE STA.131+68.78

MATCHLINE STA.145+65.12

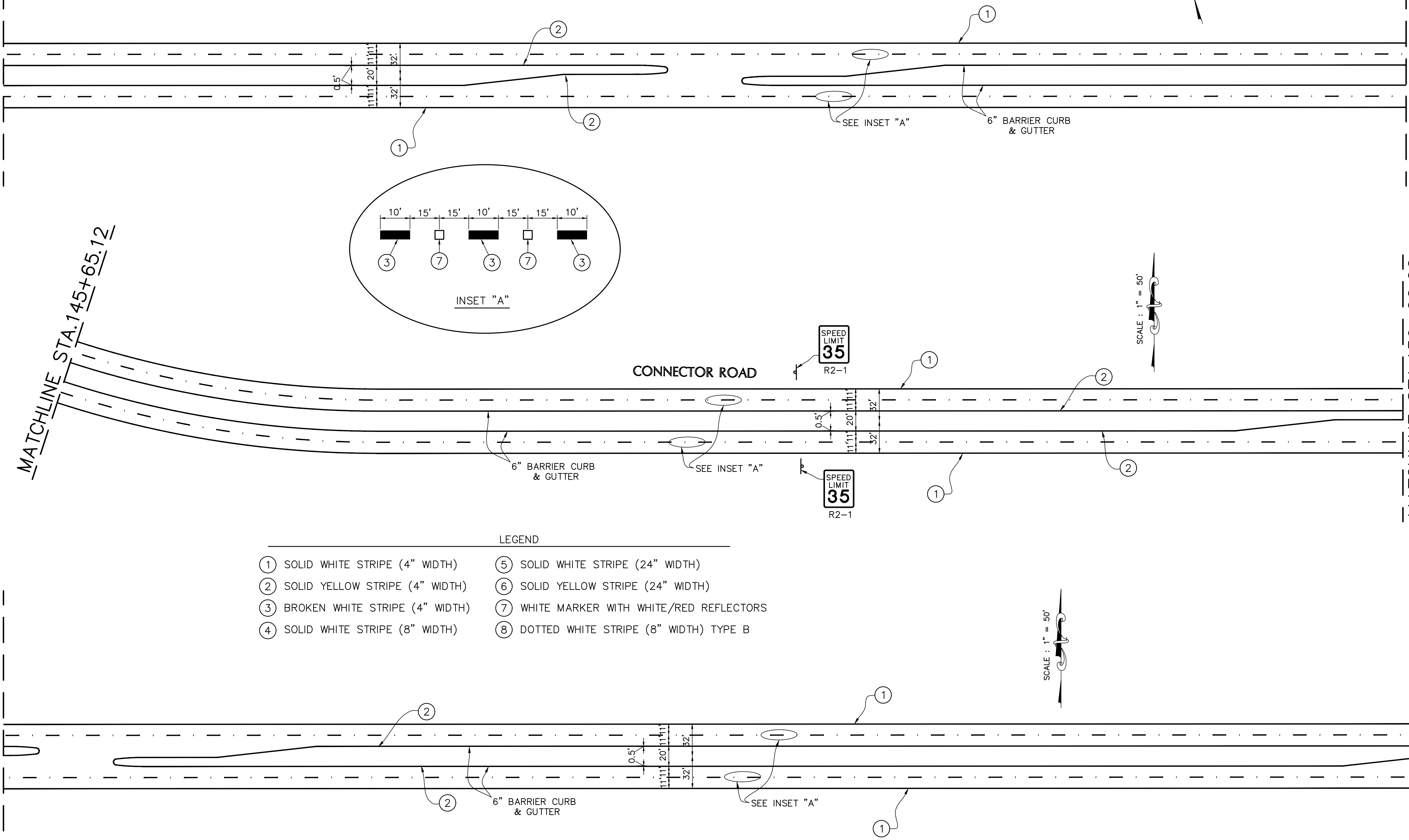
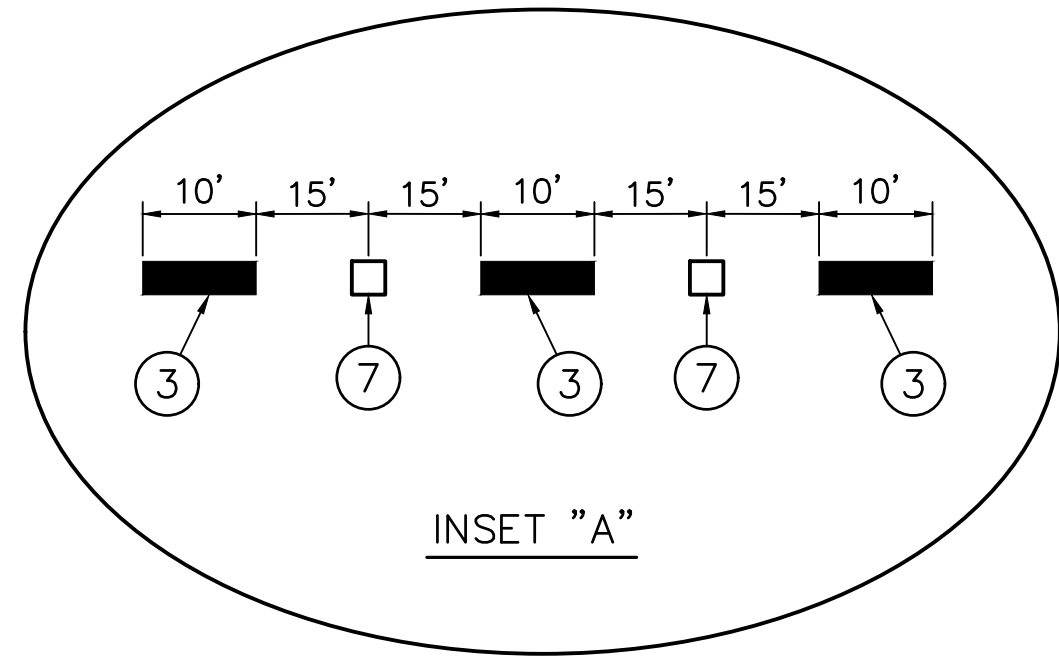
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MATCHLINE STA.145+65.12

MATCHLINE STA.159+00.00

MATCHLINE STA.173+00.00

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  - ② SOLID YELLOW STRIPE (4" WIDTH)
  - ③ BROKEN WHITE STRIPE (4" WIDTH)
  - ④ SOLID WHITE STRIPE (8" WIDTH)
  - ⑤ SOLID WHITE STRIPE (24" WIDTH)
  - ⑥ SOLID YELLOW STRIPE (24" WIDTH)
  - ⑦ WHITE MARKER WITH WHITE/RED REFLECTORS
  - ⑧ DOTTED WHITE STRIPE (8" WIDTH) TYPE B



SPEED LIMIT 35 R2-1

SPEED LIMIT 35 R2-1

SCALE : 1" = 50'

SCALE : 1" = 50'

SCALE : 1" = 50'



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DESIGNED	ATL
CHECKED	FJZ
DETAILED	LBW
CHECKED	FJZ
DATE	04/29/21
SHEET	39

NO.	DATE	REVISION DESCRIPTION	BY

**PAVEMENT MARKING AND SIGNING LAYOUT**  
LA 1077/LA 21 CONNECTOR ROAD

Project Number: RCLC No: 714-08



Sheet Number: 39



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MATCHLINE STA. 173+00.00

MATCHLINE STA. 187+00.00

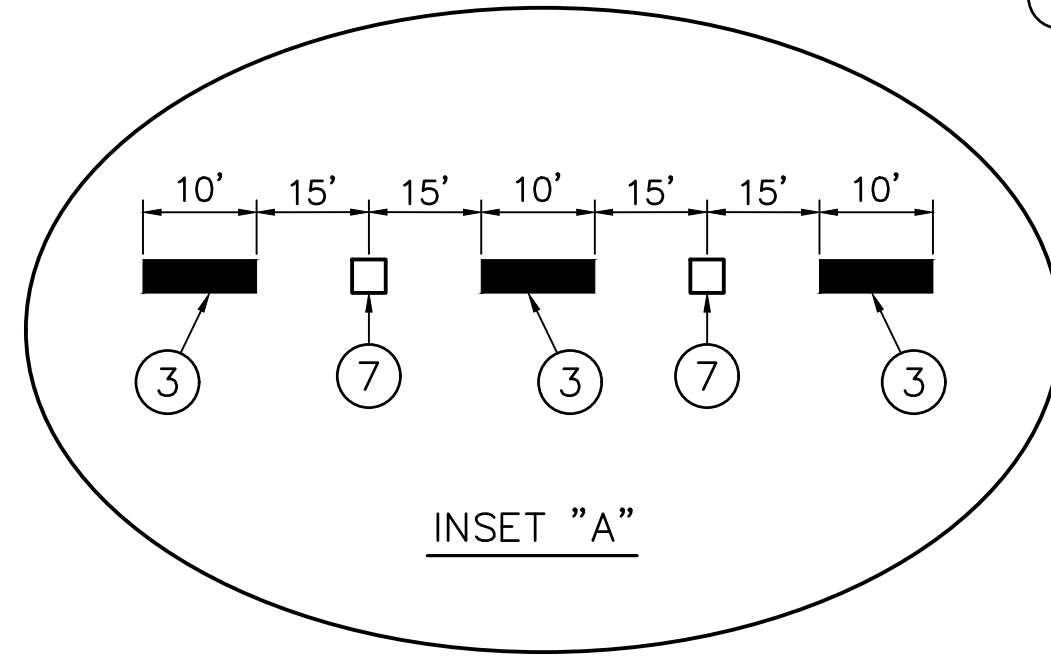
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MATCHLINE STA. 187+00.00

MATCHLINE STA. 201+00.00

MATCHLINE STA. 173+00.00

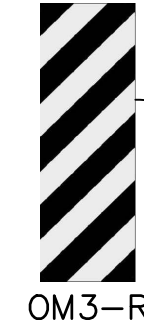
CONNECTOR ROAD



LEGEND

- ① SOLID WHITE STRIPE (4" WIDTH)
- ② SOLID YELLOW STRIPE (4" WIDTH)
- ③ BROKEN WHITE STRIPE (4" WIDTH)
- ④ SOLID WHITE STRIPE (8" WIDTH)
- ⑤ SOLID WHITE STRIPE (24" WIDTH)
- ⑥ SOLID YELLOW STRIPE (24" WIDTH)
- ⑦ WHITE MARKER WITH WHITE/RED REFLECTORS
- ⑧ DOTTED WHITE STRIPE (8" WIDTH) TYPE B

6" BARRIER CURB & GUTTER



OM3-R

OM3-R

SCALE : 1" = 50'

SCALE : 1" = 50'

REDUCED SPEED AHEAD  
R2-5a

PAVEMENT MARKING AND SIGNING LAYOUT

Project Number: RCLC No: 714-08



04/29/2021

Sheet Number:

40

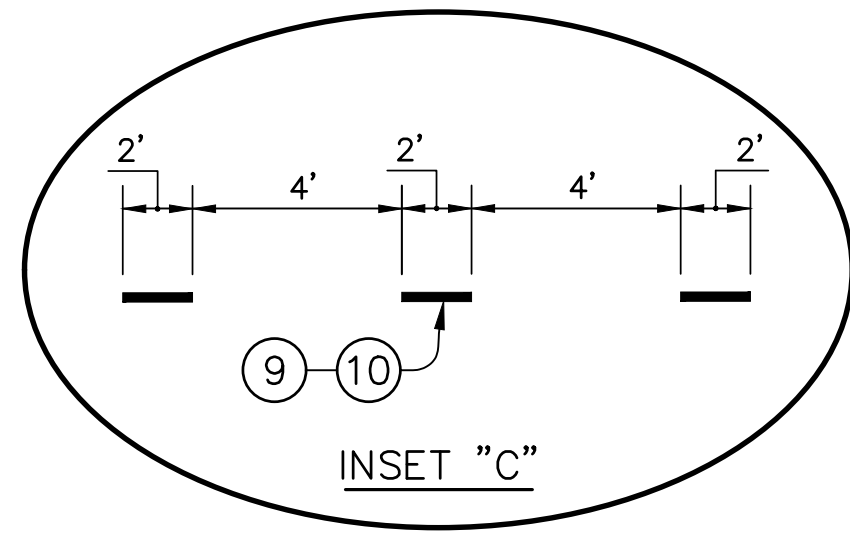
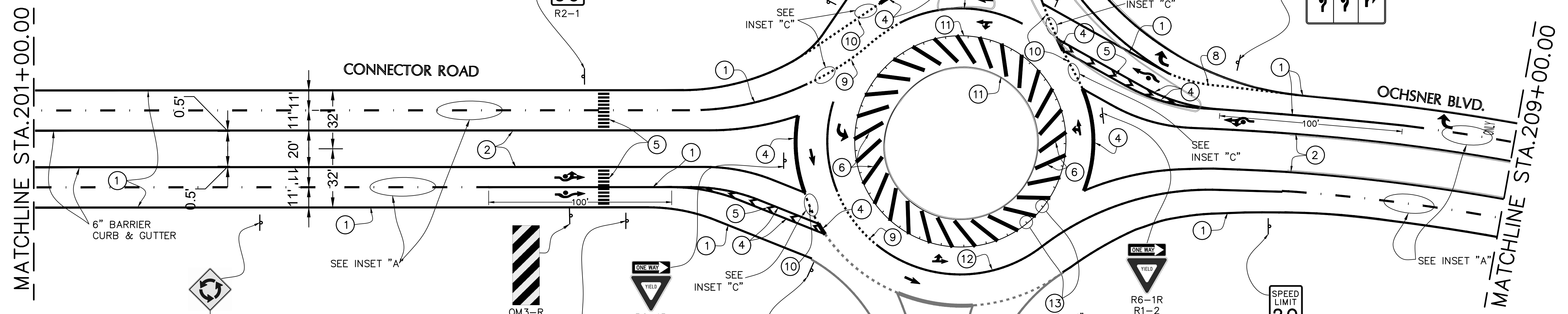
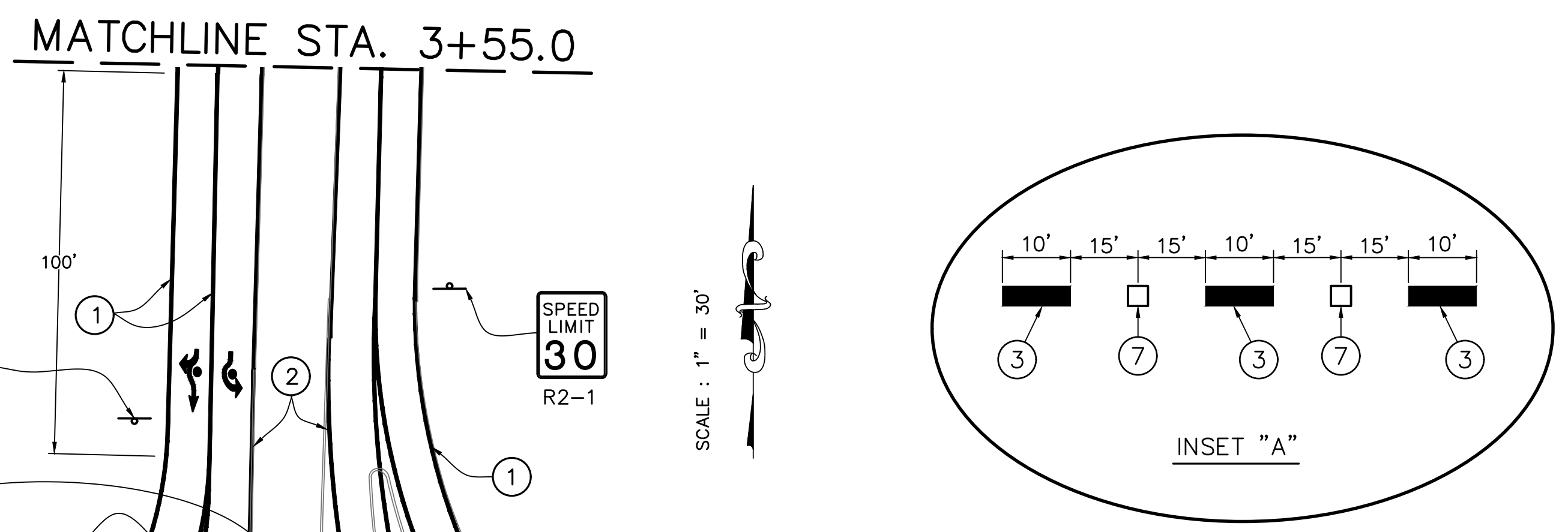
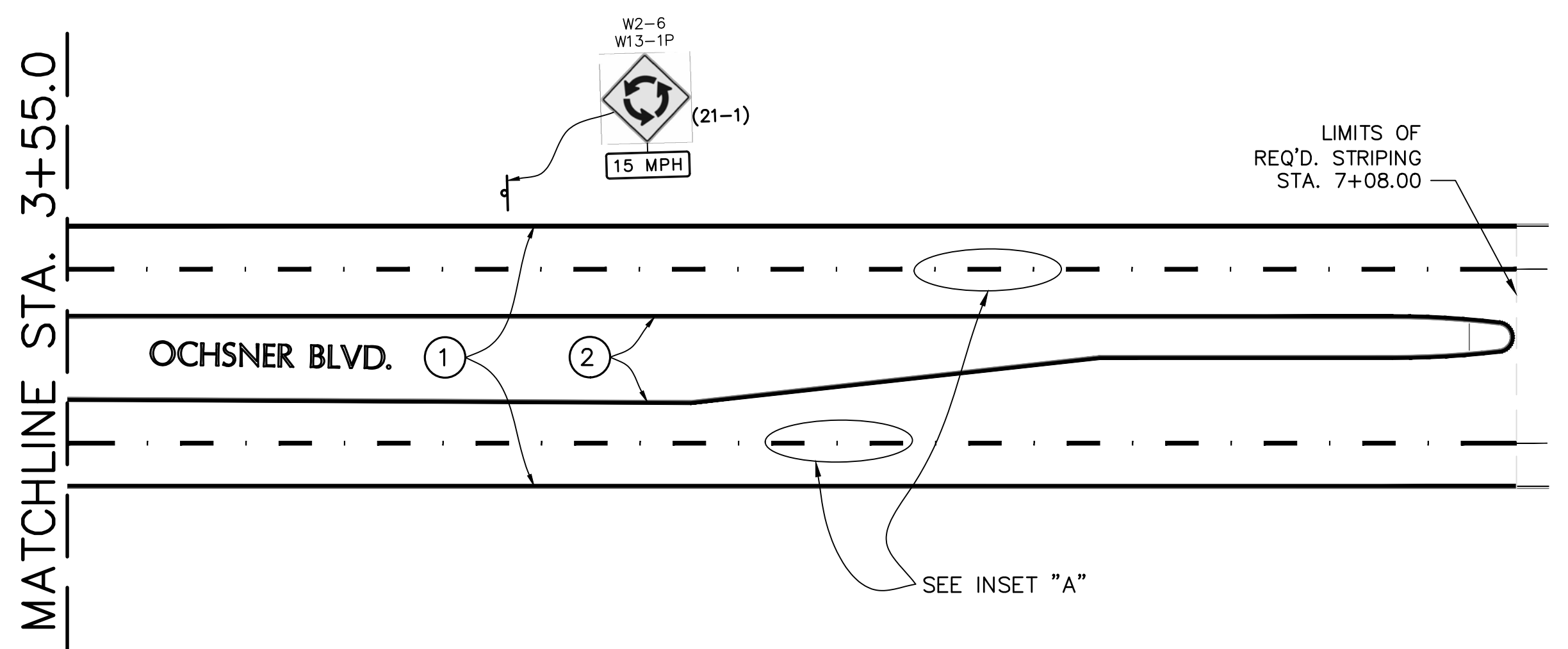
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DATE	04/29/21
SHEET	40

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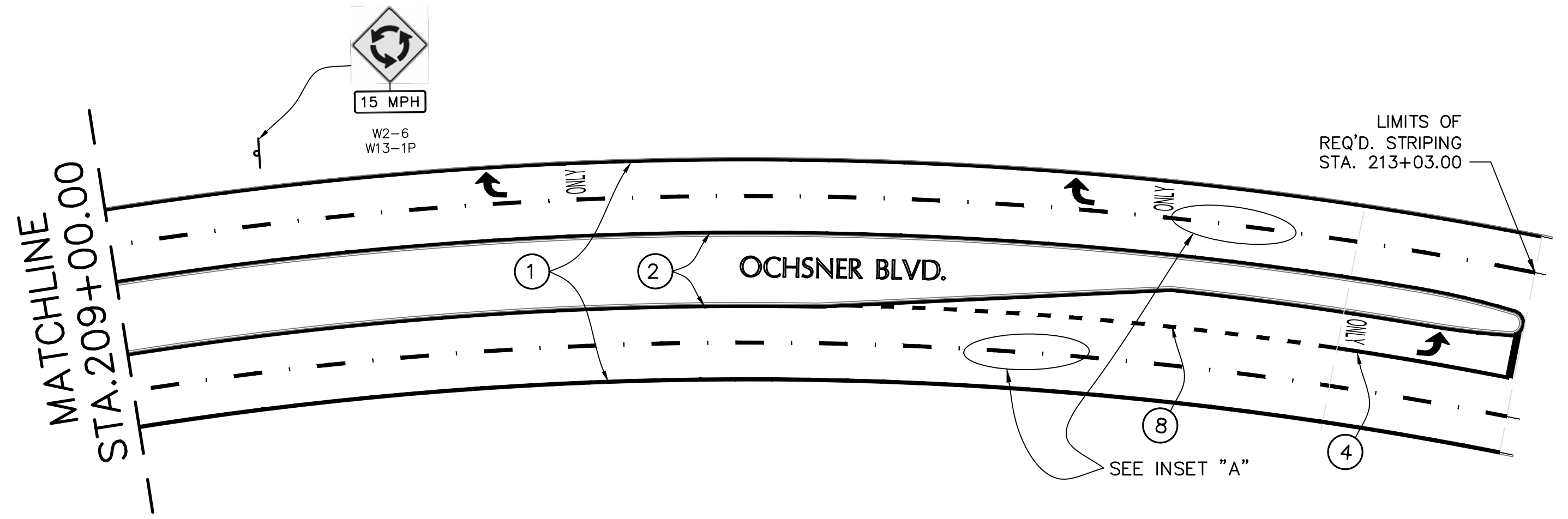
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- LEGEND**
- ① SOLID WHITE STRIPE (4" WIDTH)
  - ② SOLID YELLOW STRIPE (4" WIDTH)
  - ③ BROKEN WHITE STRIPE (4" WIDTH)
  - ④ SOLID WHITE STRIPE (8" WIDTH)
  - ⑤ SOLID WHITE STRIPE (24" WIDTH)
  - ⑥ SOLID YELLOW STRIPE (24" WIDTH)
  - ⑦ WHITE MARKER WITH WHITE/RED REFLECTORS
  - ⑧ DOTTED WHITE STRIPE (8" WIDTH) TYPE B
  - ⑨ DOTTED WHITE STRIPE (12" WIDTH) TYPE B
  - ⑩ DOTTED WHITE STRIPE (24" WIDTH) TYPE B
  - ⑪ SOLID YELLOW STRIPE (8" WIDTH)
  - ⑫ SOLID WHITE STRIPE (12" WIDTH)
  - ⑬ YELLOW MARKER WITH YELLOW REFLECTORS (TO BE REPLACED AS NEEDED)



**NOTE:**  
RESTRIPE ENTIRE ROUNDABOUT AS SHOWN

DESIGNED	ATL	NO.	41
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DETAILED	LBW	REVISION	DESCRIPTION
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**PAVEMENT MARKING  
AND SIGNING LAYOUT**

Project Number:  
RCLC No: 714-08





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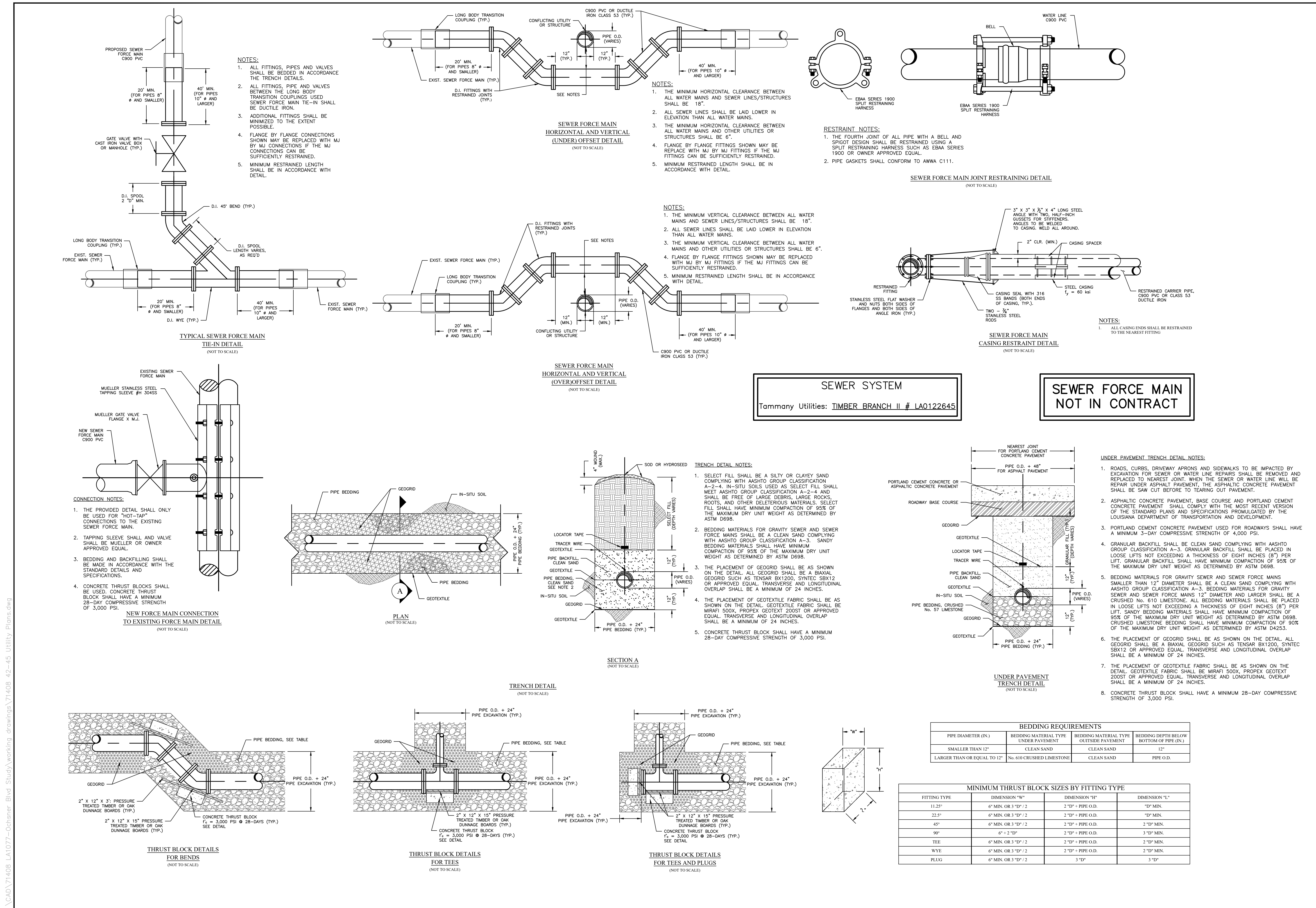
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**SEWER DETAILS**  
LA 1077/LA 21 CONNECTOR ROAD

Project Number:  
**RCLC No 714-08**



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**42**

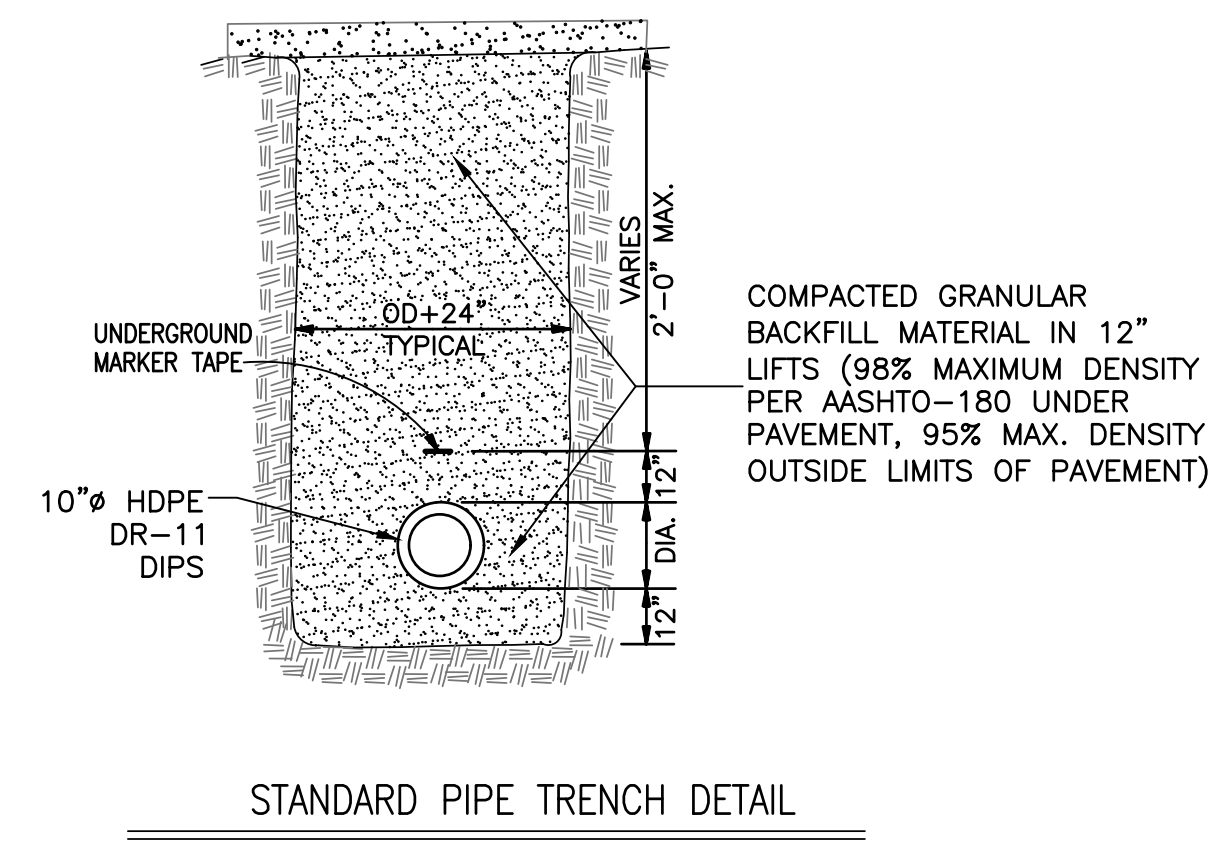
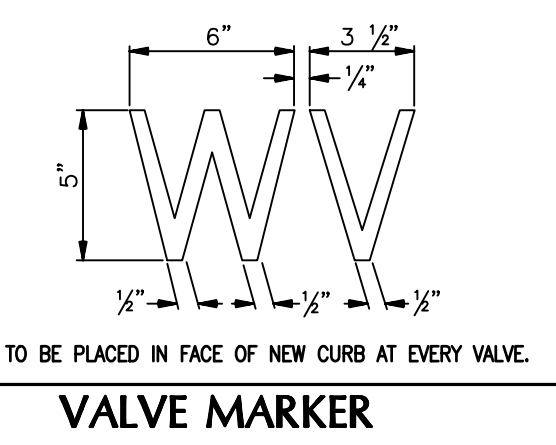
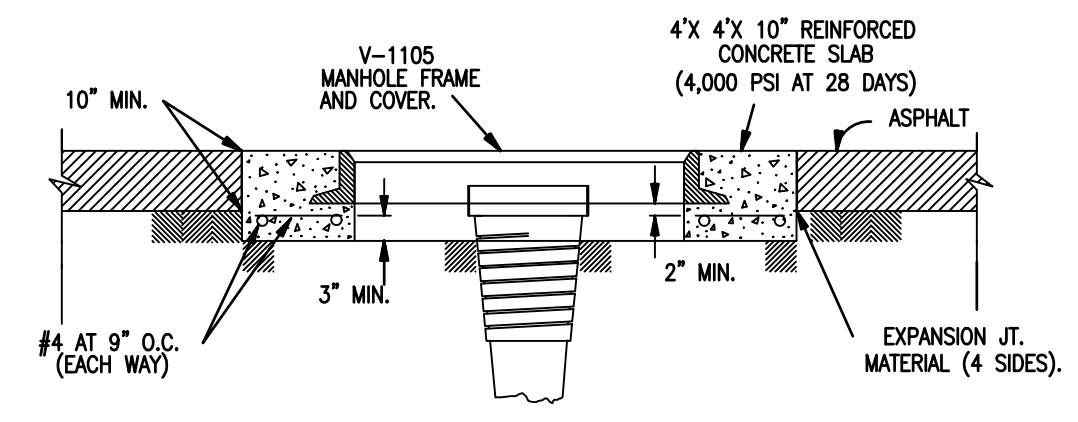








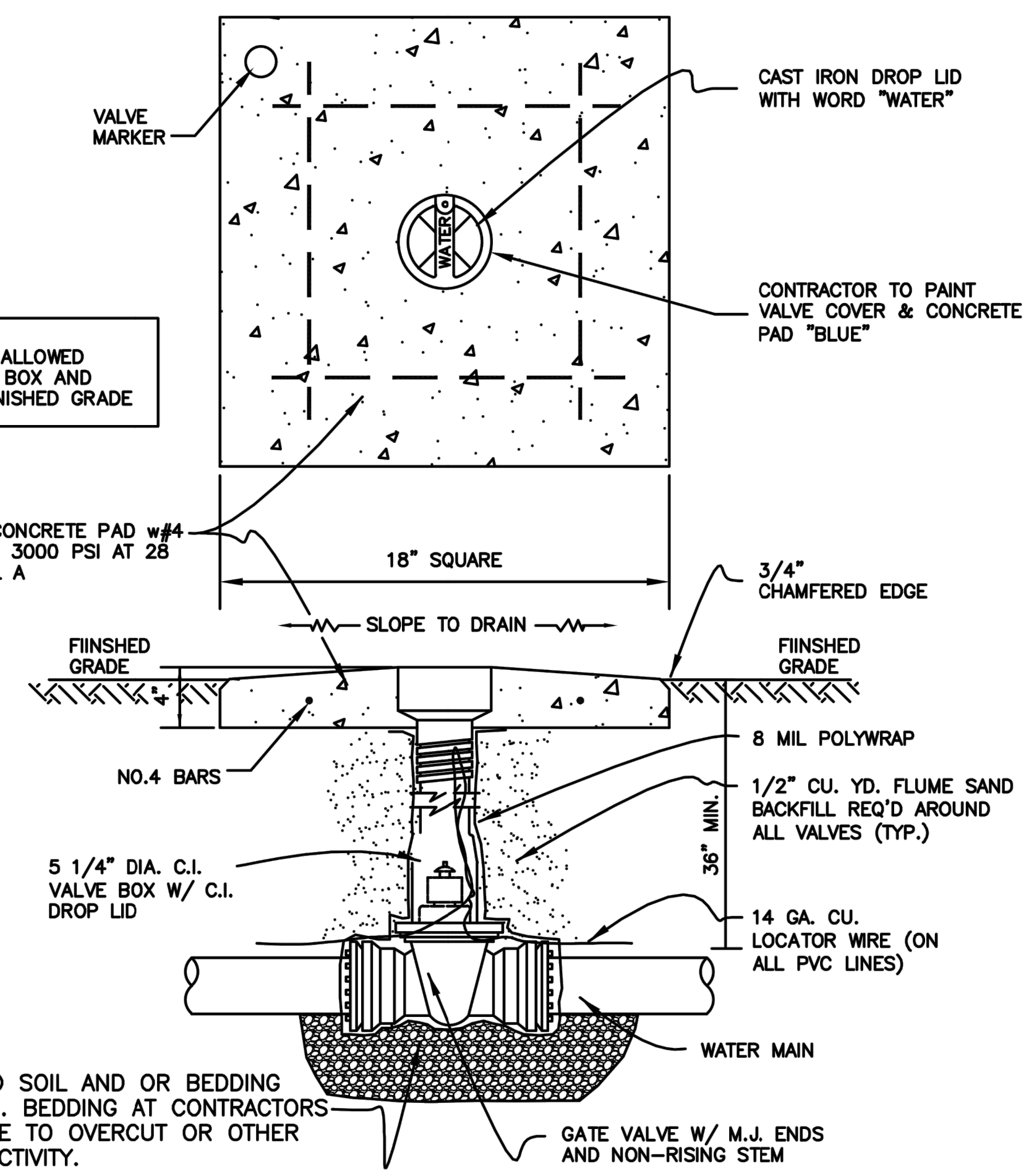
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WATER MAIN PIPE FOUNDATION FOR OPEN CUT INSTALLATION  
N.T.S.

NOTE: 6" PVC PIPE ALLOWED BETWEEN C.I. VALVE BOX AND VALVE TO REACH FINISHED GRADE

4" THICK CONCRETE PAD w#4 BARS, MIN. 3000 PSI AT 28 DAYS - CL A



UNDISTURBED SOIL AND OR BEDDING AS DIRECTED. BEDDING AT CONTRACTORS EXPENSE DUE TO OVERCUT OR OTHER NEGLIGENT ACTIVITY.

\* ANY SPECIAL CONNECTORS OR FITTINGS REQUIRED TO CONNECT VALVE TO MAIN SHALL BE INCLUDED FOR VALVE INSTALLATION

\* NUTS & BOLTS FOR D.I. FITTINGS SHALL BE COR-TEN T-BOLTS AS MANUFACTURED BY NSS INDUSTRIES

GATE VALVE & CONCRETE VALVE DETAIL  
N.T.S.

SEWER NOTES:

- VALVES, VALVE BOXES, TEES, BENDS AND ALL DUCTILE IRON PIPES SHALL BE WRAPPED WITH 8 MIL THICKNESS POLYETHYLENE WRAP.
- VALVES, VALVE BOXES, FITTINGS AND TAPPING SLEEVES SHALL BE INCLUDED IN THE PRICE OF THE TAPPING SLEEVE AND VALVE ASSEMBLY.
- NUTS AND BOLTS FOR DUCTILE IRON FITTINGS SHALL BE COR-TEN BOLTS AS MANUFACTURED BY NSS INDUSTRIES OR APPROVED EQUAL.

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WATER DETAILS  
LA 1077/LA 21 CONNECTOR ROAD

Project Number:  
RCLC No: 714-08



WATER SYSTEM  
UTILITIES, INC.: GREENBRIER PWS# 1103130



**OWNER/OPERATOR**

WHERE THE UTILITY WILL OWN, OPERATE AND MAINTAIN THE WATER SYSTEM, THE CONTRACTOR SHALL BE EXPECTED TO MEET ALL THE REQUIREMENTS OF THE UTILITY AND JURISDICTIONAL AGENCIES.

**PIPE MATERIALS**

HDPE SHALL BE SDR-11 DIPS. MATERIAL SHALL BE NSF STANDARD 14 MATERIAL AND COMPLY WITH ANSI/NSF STANDARD 61 AND PE 4710.

POLYVINYL CHLORIDE PLASTIC PIPE BLUE IN COLOR (PVC) 2" THROUGH 12" SHALL BE MANUFACTURED IN ACCORDANCE WITH ANSI/AWWA C900 (LATEST EDITION) AND SHALL HAVE A MINIMUM WORKING PRESSURE OF 150 PSI AND HAVE A DR (DIMENSION RATIO) OF 18. ALL PVC PIPE SHALL BEAR THE NSF LOGO FOR POTABLE WATER. JOINTS SHALL BE OF THE PUSH-ON TYPE (BELL AND SPIGOT) AND COUPLINGS CONFORMING TO ASTM D3139 DR18 PIPE.

DUCTILE IRON PIPE (DIP) SHALL BE STANDARD PRESSURE CLASS 350 IN SIZES 4" THROUGH 12" AND CONFORM TO ANSI/AWWA C150/A21.50 (LATEST EDITION). ALL DUCTILE IRON PIPE SHALL HAVE A STANDARD THICKNESS OF CEMENT MORTAR LINING AS SPECIFIED IN ANSI/AWWA C104/A21.4 (LATEST EDITION). PIPE JOINTS SHALL BE OF THE PUSH-ON RUBBER GASKET TYPE CONFORMING TO ANSI/AWWA C111/A21.11 (LATEST EDITION).

THE CONTRACTOR SHALL FURNISH ALL LABOR, SUPERVISION, MATERIALS AND EQUIPMENT REQUIRED FOR INSTALLATION OF NEW MAINS, VALVES, MANHOLES, HYDRANTS, AND HOUSE CONNECTIONS REQUIRED BY THESE DRAWINGS. ALL WORK MUST CONFORM TO THE SPECIFICATIONS OF THE UTILITY PROVIDER.

ALL VALVES AND HYDRANTS MUST BE PROCURED BY THE CONTRACTOR DIRECTLY FROM THE MANUFACTURER OR HIS REPRESENTATIVE.

PIPE SIZES GREATER THAN 12" IN BOTH PVC AND DUCTILE IRON SHALL BE SEPARATELY SPECIFIED ON THE PLANS. WITH THICKNESS CLASSES TO BE SHOWN BASED ON WORKING PRESSURES, PIPE DEPTH AND TRENCH CONDITIONS.

FITTINGS FOR DUCTILE IRON PIPE AND PVC C900 PIPE SIZES 2" - 48" SHALL BE DUCTILE IRON, MEGA LUG GLANDS, ONE BOLT FITTING OR APPROVED EQUAL AND SHALL CONFORM TO ANSI/AWWA C110/A21.10 (LATEST EDITION) AND SHALL BE CEMENT LINED TO BE IN CONFORMANCE WITH ANSI/AWWA C104/A21.4 (LATEST EDITION).

COMPACT FITTINGS FOR DUCTILE IRON PIPE AND PVC C900 PIPE SIZES 2" - 24" SHALL BE DUCTILE IRON AND SHALL CONFORM TO ANSI/AWWA C153/A21.53 (LATEST EDITION) AND SHALL BE CEMENT LINED TO BE IN CONFORMANCE WITH ANSI/AWWA C104/A21.4 (LATEST EDITION).

POLYETHYLENE WRAP USED FOR CORROSION PREVENTION ON DUCTILE IRON PIPE SHALL CONFORM TO THE REQUIREMENTS OF ANSI/ASTM D1248. THE MINIMUM NOMINAL THICKNESS SHALL BE 0.008 IN. (8 MILS). INSTALLATION OF POLY WRAP SHALL BE IN ACCORDANCE WITH AWWA C105. ALL PVC AND HDPE WATER LINE, SERVICE LINES AND RELATED MATERIALS SHALL CONFORM TO NSF STANDARD 61.

**WATER VALVES**

GATE VALVES SHALL BE RESILIENT SEAT AND SHALL CONFORM TO ANSI/AWWA C509. SQUARE WRENCH NUT, EXTENSION STEMS AND OTHER (LATEST EDITION) WITH A 2 APPURTENANCES AS REQUIRED. MANUFACTURER'S CERTIFICATION OF THE VALVES' COMPLIANCE WITH AWWA SPECIFICATION C509 AND TESTS LISTED THEREIN WILL BE REQUIRED. VALVES SHALL BE CLOW, MUELLER, KENNEDY, M&H, OR AMERICAN.

VALVE BOX PADS SHALL BE 18" X 18" X 4" THICK CONCRETE WITH #4 REINFORCING BARS. PAD IS TO BE SET AT FINISH GRADE.

UNDERGROUND VALVE IDENTIFICATION (UVI) MARKERS ONLY REQUIRED WHEN/WHERE LEFT HANDED VALVES ARE FOUND, OR KNOWN TO BE INSTALLED. MARKERS SHALL BE 3" DIA. 1/8" THICK SOLID HARD BRASS WITH 1/4" ROD ANCHOR WITH "TAMPER PROOF" HOOK END. SURFACE SHALL BE ENGRAVED WITH 1/4" TO 3/8" CAPITAL LETTERS APPROXIMATELY .015" DEPTH - HAND PUNCHED LETTERS NOT ACCEPTABLE. FOR MARKER TEXT, REFER TO UNDERGROUND VALVE MARKER DETAIL. SURFACE GROUND SMOOTH AND EPOXY COATED TO PREVENT TARNISHING. MARKERS ARE TO BE WAGCO MARKERS, OR APPROVED EQUAL.

UVI MARKERS SHALL BE INSTALLED IN THE VALVE PAD IN UNPAVED AREAS, IN CONCRETE ADJACENT TO VALVE BOX COVER IN SIDEWALK OR DRIVEWAY AREAS, AND IN CONCRETE CURB ADJACENT TO VALVE IN PAVED AREAS. UVI'S PLACED IN CURB FOR VALVES IN PAVED AREAS SHALL BE INSTALLED WITH THE SAME LOCATION ARRANGEMENT AS THE VALVES. (REFER TO PLACEMENT DETAIL.)

**PLUG VALVES**

PLUG VALVES (SEWER) FOR SFM INSTALLATIONS & ANYWHERE VALVES ARE NEEDED.

**BUTTERFLY VALVES**

BUTTERFLY VALVES SHALL MEET OR EXCEED THE DESIGN STRENGTH TESTING AND PERFORMANCE REQUIREMENTS OF AWWA C504 (LATEST EDITION) CLASS 150. VALVES SHALL BE DUCTILE IRON, RESILIENT SEAT, AND BE MANUFACTURED BY KENNEDY, MUELLER, M&H, AMERICAN, OR APPROVED EQUAL. BUTTERFLY VALVES TO BE USED FOR MAIN SIZES GREATER THAN 12".

**AIR RELEASE VALVES**

AIR RELEASE VALVES SHALL BE PLACED AT HIGH POINTS OF ALL TRANSMISSION MAINS TO PERMIT ESCAPE OF TRAPPED AIR. THE VALVE SIZE, LOCATION, AND METHOD OF INSTALLATION SHALL BE INDICATED ON THE DRAWINGS, OR AS DIRECTED BY THE ENGINEER. AIR RELEASE VALVES SHALL BE VAL-MATIC OR APPROVED EQUAL.

**VALVE BOXES**

VALVE BOXES ON BURIED POTABLE WATER SHALL BE 3 PIECE ADJUSTABLE, CAST IRON CONSTRUCTION, WITH A MINIMUM INTERIOR DIAMETER OF 5" WITH COVERS CAST WITH THE INSCRIPTION IN LEGIBLE LETTERING ON THE TOP. WATER BOXES SHALL BE SUITABLE FOR THE APPLICABLE SURFACE LOADING AND VALVE SIZE, AND SHALL BE MANUFACTURED BY MUELLER COMPANY, MODEL 10364, OR APPROVED EQUAL.

**FIRE HYDRANTS**

FIRE HYDRANTS SHALL CONFORM TO AWWA C502 (LATEST EDITION) AND SHALL BE FURNISHED COMPLETE WITH WRENCH AND OTHER APPURTENANCES. MANUFACTURER'S CERTIFICATION OF COMPLIANCE WITH AWWA C502 AND TESTS LISTED THEREIN WILL BE REQUIRED. ALL HYDRANTS SHALL BE OF BREAKABLE TYPE, WITH THE BREAKABLE SECTION LOCATED SLIGHTLY ABOVE THE FINISH GROUND LINE. HYDRANTS SHALL CONTAIN TWO, TWO AND ONE-HALF INCH (2-1/2") HOSE CONNECTIONS, AND ONE, FOUR AND ONE-HALF INCH (4-1/2") STEAMER CONNECTIONS WITH NATIONAL STANDARD FIRE HOSE COUPLING SCREW THREADS, FIVE AND ONE-QUARTER INCH (5-1/4") VALVE OPENING, SIX INCH (6") DIAMETER MECHANICAL JOINT INLET, ONE AND ONE-HALF INCH (1-1/2") PENTAGON OPERATING NUT. SHALL OPEN COUNTERCLOCKWISE. SHALL BE PAINTED IN CONFORMANCE WITH LOCAL FIRE DEPARTMENT REQUIREMENTS (COLORS BASED ON DELIVERED FIRE FLOW) WITH THE PRIMER PAINT BEING KOPPER'S "GLAMORTEX" NO. 622 RUST PRIMER, AND THE FINISH BEING KOPPER'S "GLAMORTEX" CROME YELLOW AND SHALL BE MUELLER SUPER CENTURION 250 (TRAFFIC MODEL A-423). NO SUBSTITUTES WILL BE ALLOWED.

BLUE PAVEMENT REFLECTORS (RPM'S) SHALL BE PLACED IN THE CENTERLINE OF THE DRIVING LANE DIRECTLY IN FRONT OF EACH FIRE HYDRANT.

FIRE HYDRANTS TO BE AWWA C-502 MUELLER SUPER CENTURION 5.25" VALVE OPENING. 3-WAY TYPE TWO STANDARD 2.5" & ONE 4.5" PUMPER CONNECTION WITH NATIONAL STANDARD THREADS. HYDRANTS SHALL BE PAINTED, AND BLUE RAISED REFLECTORS AFFIXED IN ACCORDANCE WITH SECTION 40-036.1 "CENTRAL WATER SYSTEMS" OF ORDINANCE P.J.S. NO. 94-1917, ST. TAMMANY PARISH, LOUISIANA.

UPON COMPLETION OF THE WATER SYSTEM, THE FIRE HYDRANTS SHALL BE TESTED FOR GPM CAPACITY. THE BARREL OF EACH HYDRANT SHALL BE PAINTED CHROME YELLOW AND THE TOP NOZZLE CAPS OF EACH HYDRANT ARE TO BE PAINTED AS FOLLOWS:

- CLASS A (1,000 GPM OR GREATER): GREEN
- CLASS B (500-1,000 GPM): ORANGE
- CLASS C (<500 GPM): RED

CONTRACTOR SHALL PROVIDE A POST-CONSTRUCTION FIRE FLOW TEST WITNESSED AND APPROVED BY THE ENGINEER, OWNER/OPERATOR AND LOCAL FIRE OFFICIAL TO BE SCHEDULED WITH U.I.L.

THERE SHALL BE NO TREES, SHRUBS, ETC., PLANTED AROUND THE FIRE HYDRANTS OR IN AREAS DESIGNATED AS FIRE LANES.

HYDRANTS TO BE INSTALLED ON SWIVEL TEE FITTING WITH AN ISOLATION VALVE.

**WATER SERVICES**

UNLESS OTHERWISE NOTED IN THE PLANS, UTILITY COMPANY SHALL MAKE FINAL DETERMINATION OF TYPE METER TO BE INSTALLED, REGARDLESS OF WHAT THIS DOCUMENT MAY SPECIFY (CHECK WITH UTILITY BEFORE ANY METERS ARE INSTALLED). CONTRACTOR SHALL CONSTRUCT ALL WATER SERVICE THROUGH THE CURB STOP AND METER BOX AS SHOWN ON THE CONSTRUCTION PLANS.

POLYETHYLENE (PE) PRESSURE PIPE FOR WATER SERVICES MIN. 1" THROUGH 2" SHALL BE ENDOT, ENDOPURE, BLVE PIPE, AND CONFORM TO AWWA C901 (LATEST EDITION), MIN 200 PSI.

ALL WATER SERVICES SHALL INCLUDE THE FOLLOWING: LOCKING BRASS CURB STOPS, "U" BRANCHES, UNIONS AS REQUIRED, PE SERVICE PIPE, TAP SADDLE BRASS OR STAINLESS STEEL SINGLEBAND WITH NEOPRENE COATING ONLY, CORPORATION STOPS 1" CC THREAD 1.5" & 2" - IPT AND PLASTIC METER BOX. METER BOXES WITHIN PAVED AREA MUST BE OF CAST IRON (AND CAST IRON NON-LOCKABLE LID) SIZED AND PLACED TO ENCOMPASS CURB STOP, METER & UNION CONNECTIONS AND SET TO FINISH GRADE. METER COUPLING REQUIRED, NO PVC OR IRON PIPE BETWEEN CURB STOP AND METER. THE SERVICE SHALL BE COMPLETE THROUGH THE CURB STOP, AND SHALL BE OF THE TYPE REQUIRED FOR COMPATIBILITY WITH THE SERVICE LINES SPECIFIED, AND FITTINGS SHALL BE AS MANUFACTURED BY THE MUELLER CORPORATION OR FORD.

THE CONTRACTOR SHALL STAMP "W" IN THE CURB TOP AT EACH WATER SERVICE AND A "V" AT ALL VALVE LOCATIONS. STAMP EDGE OF PAVEMENT WHERE NO CURBING IS AVAILABLE. INSIDE OF STAMPED W'S AND V'S SHALL BE HIGHLIGHTED WITH BLUE PAINT. SAW CUTS ARE NOT PERMISSABLE.

**PIPE INSTALLATION**

PIPE INSTALLATION OF PVC WATER MAIN SHALL BE IN CONFORMANCE WITH ASTM D2774 (LATEST EDITION). INSTALLATION OF DUCTILE IRON PIPE WATER MAIN SHALL BE IN CONFORMANCE WITH AWWA C600.87.

OPEN CUT TRENCH INSTALLATION OF PVC AND HDPE PIPE SHALL CONFORM WITH THE MANUFACTURER'S RECOMMENDATIONS AND THE APPLICABLE REQUIREMENTS OF THE UTILITY PROVIDER. THE TRENCH BOTTOM SHALL BE RELATIVELY SMOOTH & FREE FROM ROOTS, ROCKS, ETC. THE PIPE SHALL BE LAID ON A SMOOTH BED OF GRANULAR MATERIAL 12 INCHES IN DEPTH FOR THE FULL WIDTH OF THE TRENCH AND EXTENDING TO THE TOP OF THE PIPE. THE SAND SHALL BE PLACED AND CONSOLIDATED UNDER THE PIPE HAUNCHES TO PROVIDE ADEQUATE SIDE SUPPORT TO THE PIPE WHILE AVOIDING DISPLACEMENT AND MISALIGNMENT. (THE COST OF THE SAND BEDDING AND BACKFILLING SHALL BE INCLUDED IN THE COST OF THE PIPE).

THE EXISTING UTILITIES SHOWN ARE APPROXIMATE. THE CONTRACTOR SHALL VERIFY THE LOCATION OF SAME AND SHALL EXERCISE CAUTION AND PROTECT THEM. ANY DAMAGE TO EXISTING UTILITIES SHALL BE REPAIRED BY THE CONTRACTOR WITH EQUAL OR BETTER MATERIALS SUPPLIED BY THE CONTRACTOR AT HIS EXPENSE.

CONTRACTOR SHALL INSURE 18" VERTICAL CLEARANCE OF WATER LINES OVER SEWER LINES, AND 72" HORIZONTAL CLEARANCE BETWEEN WATER AND SEWER MAINS AND SERVICES.

CONTRACTOR SHALL MAKE ALL TIE-INS AND SHALL PROVIDE ALL PIPING FOR TIE-INS AS SPECIFIED IN THE CONTRACT DRAWINGS.

ALL CHANGES IN WATERLINE DIRECTION SHALL BE STABILIZED BY USE OF RESTRAINED JOINTS. RESTRAINED JOINTS SHALL BE DUCTILE IRON WITH PVC RETAINER GLANDS OR SLIP JOINTS WITH TIE RODS. THRUST BLOCKING TO BE UTILIZED AT NEW CONNECTION TO 8" WATER MAIN AND FIRE HYDRANTS.

COMPACTED BACKFILL SHALL BE TO 98% MAXIMUM DENSITY AS DETERMINED BY AASHTO T-180 UNDER ALL PAVEMENTS WITH 12" MAXIMUM LIFT THICKNESS. OTHER COMPACTION OF BACKFILL SHALL BE TO 95% MAXIMUM DENSITY AS DETERMINED BY AASHTO T-180 WITH 12" MAXIMUM LIFT THICKNESS. SEE PIPE TRENCHING DETAILS.

ALL NEW WATER MAIN PIPE (8") SHALL HAVE MINIMUM 3'-0" COVER AND 10" AND 12" WATER MAINS SHALL HAVE 3'-6" MINIMUM COVER BETWEEN NEW GUTTER LINE AND TOP OF PIPE, UNLESS OTHERWISE NOTED.

PIPE DEPTH AND PROTECTION: THE STANDARD MINIMUM COVER FOR WATER DISTRIBUTION SYSTEMS SHALL BE 3 FEET FROM THE TOP OF THE PIPE TO THE FINISH GRADE. HOWEVER, SHOULD THIS DESIGN NOT BE FEASIBLE, DUCTILE IRON PIPE, CLASS 52, OR HDPE-SDR 11 SHALL BE SUBSTITUTED, WHERE WATERWAYS, CANALS, DITCHES OR OTHER CUTS ARE CROSSED. DUCTILE IRON PIPE OR OTHER APPROVED METHODS SHALL BE CONSTRUCTED, WHERE A WATER MAIN CROSSES EITHER ABOVE OR BELOW AN EXISTING OR PROPOSED SANITARY HAZARD (STORM, SANITARY, OR REUSE PIPE) WITH LESS THAN 18 INCHES OF CLEARANCE, THEN BOTH THE WATER MAIN AND THE SANITARY HAZARD SHALL BE A SOLID LENGTH OF CLASS 52 DIP FOR 20 FEET CENTERED ON THE POINT OF CROSSING. THE MINIMUM HORIZONTAL SEPARATION BETWEEN A WATER MAIN AND A SANITARY HAZARD SHALL BE 6 FEET. WHERE A SEPARATION OF 10 FEET BETWEEN A WATER MAIN AND A SANITARY HAZARD CANNOT BE MAINTAINED, THEN BOTH THE WATER MAIN AND THE SANITARY HAZARD SHALL BE CLASS 52 DIP.

ALL PLUGS, CAPS, TEES, BENDS, FIRE HYDRANTS, VALVES, ETC., SHALL BE PROVIDED WITH THRUST BLOCKS/RODDED RESTRAINTS. FOR THRUST BLOCK AND RESTRAINED JOINT CONSTRUCTION, REFER TO THE UTILITY DETAILS AND TABLES.

CONTRACTOR SHALL CONTACT ALL PUBLIC AND PRIVATE UTILITIES AND LOUISIANA ONE CALL AT 1-800-272-3020 AT LEAST 3 WORKING DAYS PRIOR TO BEGINNING OF CONSTRUCTION AROUND THEIR RESPECTIVE UTILITIES.

USE OF TRENCH BOXES FOR THE INSTALLATION OF SEWER, WATER OR DRAIN LINES WILL BE PERMITTED FOR TRENCH PROTECTION.

THE EXISTING UTILITIES SHOWN ARE APPROXIMATE. CONTRACTOR SHALL VERIFY THE LOCATION AND ELEVATION OF SAME AND SHALL EXERCISE CAUTION AND PROTECT THEM. THE CONTRACTOR SHALL PROTECT THE EXISTING UTILITIES BY PROVIDING ADEQUATE SUPPORT AND BRACING DURING INSTALLATION OF NEW UTILITIES UNDER THOSE EXISTING LINES. CONTRACTOR WILL BE RESPONSIBLE FOR REPAIRING OR REPLACING THE EXISTING LINES IF DAMAGED.

ADJUST THE ELEVATION OF NEW WATER MAINS AS REQUIRED TO AVOID CONFLICT WITH SEWER MAIN AND HOUSE CONNECTIONS.

**WATER METERS**

- \*RESIDENTIAL METERS SUPPLIED BY U.I.L. UNLESS OTHERWISE NOTED.
- \*COMMERCIAL METERS SUPPLIED BY OWNER/DEVELOPER.
- \*METERS LARGER THAN 2" SHALL BE A COMPOUND METER.

**PIPE IDENTIFICATION**

BLUE INDICATOR TAPE SHALL BE BURIED IN THE WATER MAIN TRENCH 18" DIRECTLY ABOVE THE WATER MAIN. A CONTINUOUS STANDARD INSULATED COPPER DETECTOR WIRE, MAY BE LESS PRONE TO BREAK, SHALL BE ATTACHED AS SHOWN ON THE PIPE DETECTOR WIRE MARKER DETAIL.

**DISINFECTION AND TESTING**

ALL PIPE SHALL BE DISINFECTED IN ACCORDANCE WITH AWWA STANDARD C651 (LATEST EDITION) AND LDHH REGULATIONS.

CHLORINATION OF WATER MAINS AND SERVICE LINES SHALL BE PERFORMED BY CONTRACTOR AT HIS EXPENSE IN ACCORDANCE WITH PART XII OF THE LOUISIANA ADMINISTRATIVE CODE (LAC) 51:XII.353.A. AFTER FLUSHING THE LINES AND THE PRESSURE TEST HAS BEEN SUCCESSFULLY COMPLETED. REFER TO AWWA STANDARD C651-92 FOR CHLORINE AMOUNTS REQUIRED FOR EACH 100 FEET OF PIPE OF VARIOUS DIAMETERS. PRIOR TO COMMENCEMENT OF THE CHLORINATION THE CONTRACTOR SHALL PROVIDE AND INSTALL THE MATERIALS IN ACCORDANCE WITH THOSE STANDARDS. CERTIFICATION FROM LADHH IS REQUIRED PRIOR TO ACCEPTANCE BY UTILITY COMPANY.

ALL PLASTIC PIPES SHALL BE PRESSURE TESTED AND THE TEST SHALL CONFORM TO TEST PROCEDURES AS DESCRIBED IN ASTM F-1417 FOR PLASTIC PIPES.

ALLOWABLE LEAKAGE FOR PVC PRESSURE MAINS WILL BE IN ACCORDANCE WITH AWWA M23.

THE CONTRACTOR SHALL PROVIDE AT HIS OWN EXPENSE ALL NECESSARY TEST PUMPING EQUIPMENT, WATER, WATER METERS, PRESSURE GAUGES, AND OTHER EQUIPMENT, MATERIAL AND FACILITIES REQUIRED FOR ALL HYDROSTATIC AND LEAKAGE TESTING. CONTRACTOR SHALL CONTACT THE UTILITY AND ENGINEER IN WRITTEN FORM, SEVENTY-TWO (72) HOURS IN ADVANCE OF PROPOSED TESTING. THE CONTRACTOR SHALL PERFORM SATISFACTORY PRETESTING PRIOR TO NOTIFICATION. NO TESTING WILL BE SCHEDULED ON A MONDAY OR FRIDAY.

WATER LINES AND SERVICES SHALL PASS A HYDROSTATIC PRESSURE TEST OF 150 PSI FOR NOT LESS THAN 4 HOURS. LEAKAGE SHALL NOT EXCEED 10 GALLONS PER INCH OF DIAMETER PER MILE PER DAY.

CONTRACTOR SHALL OBTAIN A COPY OF THE LA. DHH WATER SYSTEM PERMIT AND PULL BACTERIOLOGICAL TEST SAMPLES FROM THE SAMPLE POINTS SPECIFIED IN THAT PERMIT. TESTING SHALL BE PERFORMED IN THE FOLLOWING ORDER:

- PRESSURE TEST
- DISINFECTION
- FULL BORE FLUSH ONLY WITH U.I.L.'S PRIOR APPROVAL.
- BACTERIOLOGICAL SAMPLES TO BE PULLED BY U.I.L. PERSONNEL ONLY.

**CONNECTIONS TO EXISTING WATER MAINS**

PRIOR TO THE CONNECTION TO ANY EXISTING MAIN, THE PROPOSED WATER MAIN SHALL BE DISINFECTED, HAVE ENGINEER APPROVED PRESSURE TESTING AND HAVE DHH CLEARANCE. REFER TO DHH PERMIT FOR ANY ADDITIONAL REQUIREMENTS. U.I.L. INSPECTION OF TAP PRIOR TO MAKING TAP. PRESSURE TEST OF TAP SLEEVE & VALVE REQUIRED PRIOR TO MAKING TAP - 100 LBS./15 MIN. WITH NO PRESSURE DROP.

**AS-BUILT DRAWINGS**

THE CONTRACTOR SHALL PROVIDE VERTICAL AND HORIZONTAL "AS-BUILT" INFORMATION RELATIVE TO ALL CONSTRUCTED UTILITIES AND STRUCTURES.

AS-BUILT INFORMATION FOR THE WATER SYSTEM SHALL INCLUDE, BUT NOT BE LIMITED TO, THE FOLLOWING:

- LOCATION OF ALL VALVES, FITTINGS, HYDRANTS AND SERVICES.
- LOCATION OF THE WATER MAIN TIED HORIZONTALLY TO THE BACK OF CURB OR EDGE OF PAVEMENT.
- CERTIFICATION AS TO THE SYSTEM MEETING THE MINIMUM COVER REQUIREMENTS.
- HORIZONTAL AND VERTICAL DATA FOR ANY CONSTRUCTION WHICH DEVIATES FROM THE APPROVED ENGINEERING PLANS.

<b>WATER SYSTEM</b>	
UTILITIES, INC.: GREENBRIER PWS# 1103130	



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DATE	04/29/21			
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**WATER DETAILS**

LA 1077/LA 21 CONNECTOR ROAD

Project Number:  
RCLC No: 714-08



04/29/2021

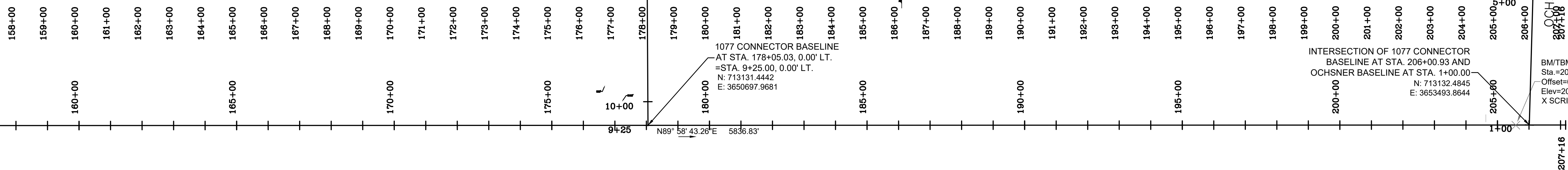
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**MATCHLINE B**



**HORIZONTAL CONTROL/ TEMPORARY BENCHMARKS**

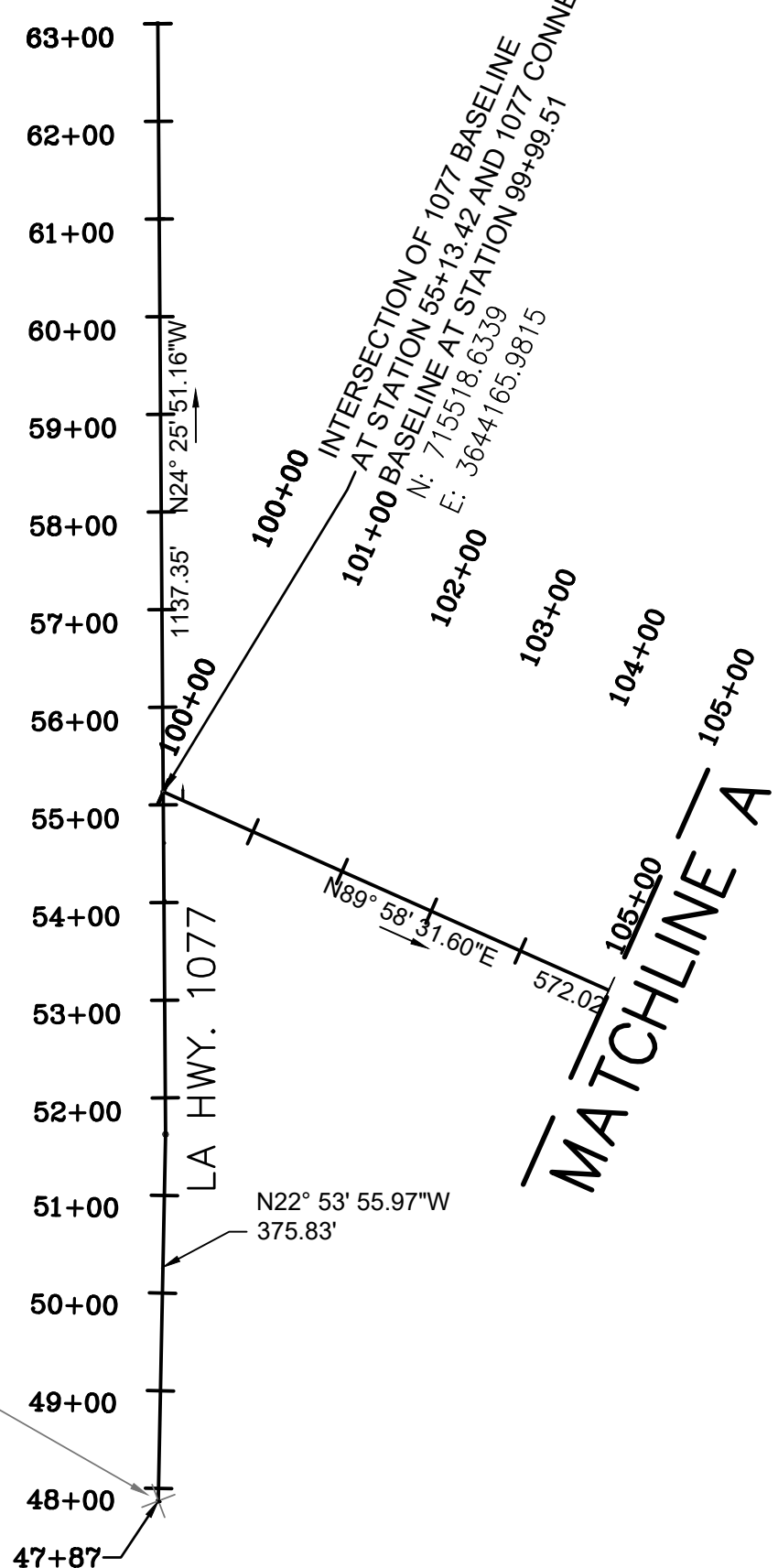
-BENCHMARK NO.1, ELEV.=26.32  
P.K. NAIL ON THE NORTH SIDE OF I-12 IN THE CONCRETE MEDIAN FOR HIGHWAY 1077, 230' +/- SOUTHEAST OF THE 42"X60" CMPA CROSS CULVERT AT THE INTERSECTION OF HIGHWAY 1077 AND THE SERVICE ROAD.

N: 714853.3700  
E: 3644457.2400

-BENCHMARK NO.2, ELEV.=20.97  
AN "X" SCRIBED IN THE BACK OF CURB ON THE WEST SIDE OF THE ISLAND IN THE CUL-DE-SAC FOR OCHSNER BLVD EXTENSION.

N: 713131.7548  
E: 3653451.1733

BM/TBM No.1  
LA 1077  
Sta.=47+87.12, 0.07  
Connector Rd  
Sta.=102+90.48, 665.39  
Elev.=26.320  
. PK NAIL



**MATCHLINE A**

**CURVE NO. 1**  
PI STA = 111+21.55  
 $\Delta = 90^{\circ}00'05''$   
T = 550.01'  
L = 863.95'  
R = 550.00'  
D = 10°25'03"



**CURVE NO. 2**  
PI STA = 125+19.46  
 $\Delta = 71^{\circ}59'31''$   
T = 889.88'  
L = 1539.21'  
R = 1225.00'  
D = 4°40'38"

**CURVE NO. 3**  
PI STA = 147+23.57  
 $\Delta = 18^{\circ}00'22''$   
T = 158.44'  
L = 314.27'  
R = 1000.00'  
D = 5°43'46"

**MATCHLINE B**

**BASELINE LAYOUT & CULVERT SCHEDULE**

Project Number:  
RCLC No: 714-08



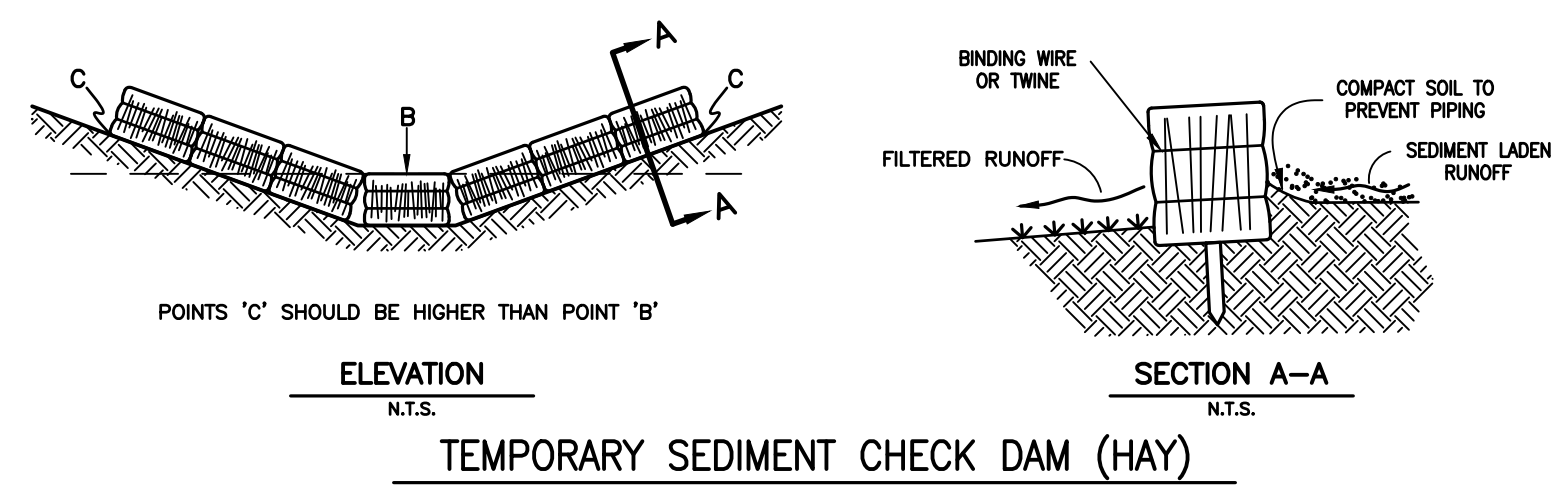
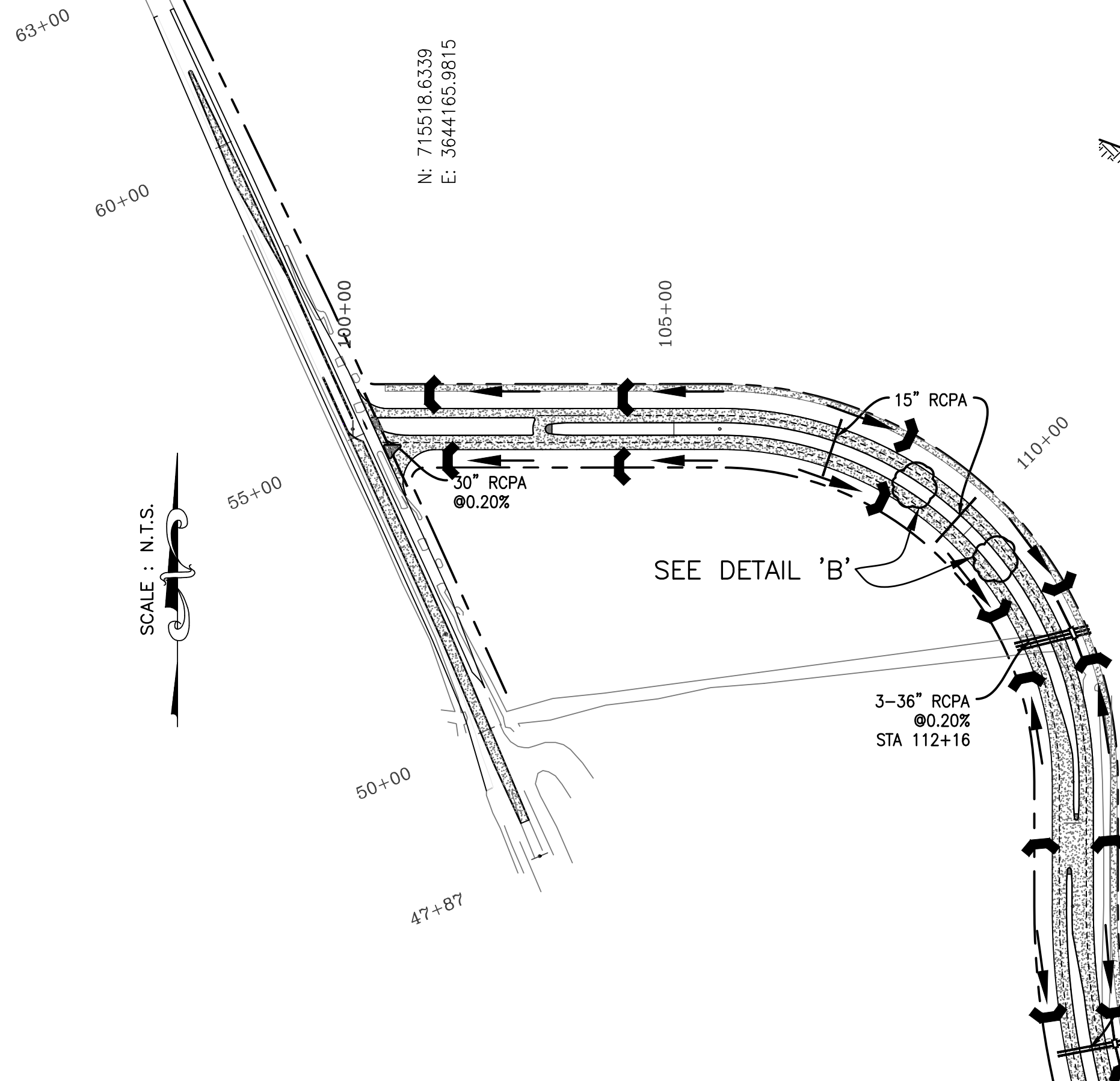
01/29/2021  
Sheet Number:

**46**

**RICHARD C. LAMBERT**  
CONSULTANTS, L.L.C.  
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900 W. Causeway Appr.  
Mandeville, LA 70471  
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DESIGNED	ATL	DATE	BY
CHECKED <td>FJZ <td>04/29/21 <td></td> </td></td>	FJZ <td>04/29/21 <td></td> </td>	04/29/21 <td></td>	
DETAILED <td>LBW <td></td> <td></td> </td>	LBW <td></td> <td></td>		
CHECKED <td>FJZ <td></td> <td></td> </td>	FJZ <td></td> <td></td>		
NO.	DATE	REVISION DESCRIPTION	

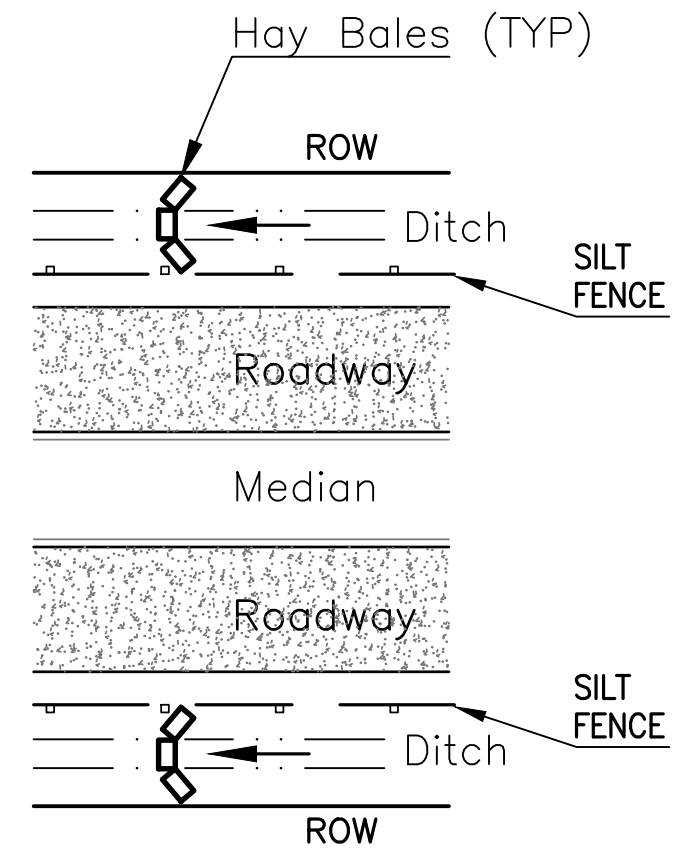




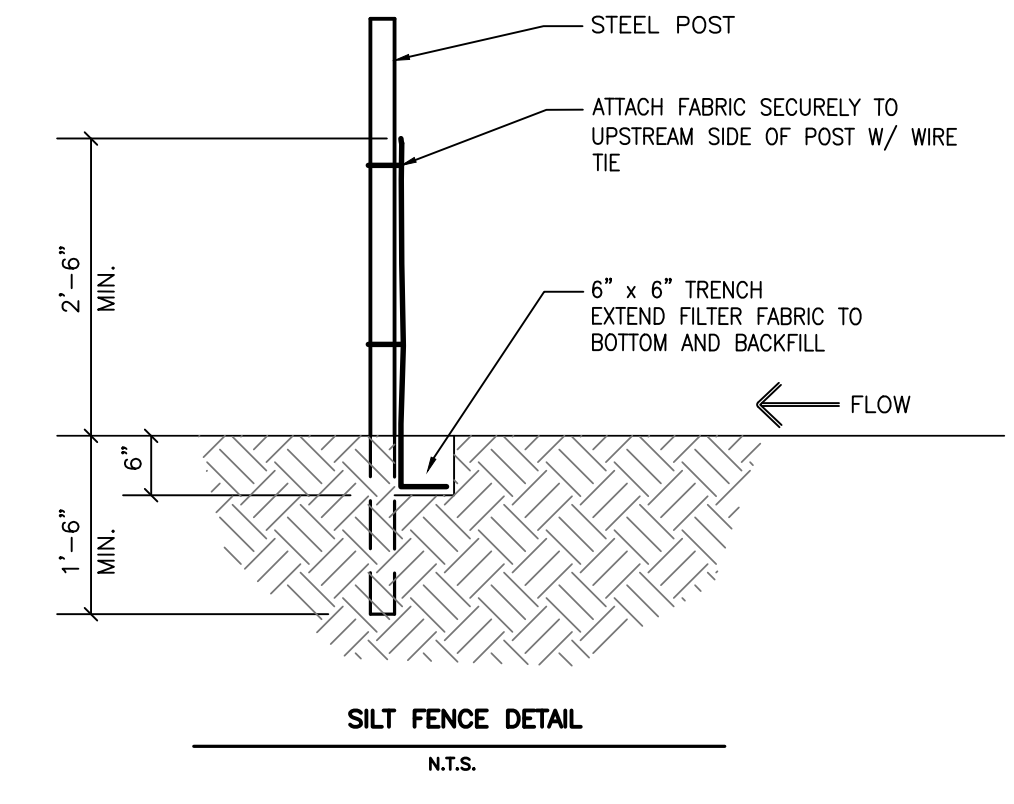
**TEMPORARY SEDIMENT CHECK DAM (HAY)**  
N.T.S.

NOTES:  
A HAY BALE BARRIER IS A TEMPORARY SEDIMENT BARRIER CONSISTING OF A ROW OF ENTRENCHED AND ANCHORED BALES OF STRAW OR HAY. THE HAY BALE BARRIER IS ALSO USED AS A CHECK DAM TO REDUCE THE VELOCITY IN SMALL DITCHES OR SWALES. THE HAY BALES SHALL BE IN ACCORDANCE WITH LA DOTD STANDARD SPECIFICATIONS, SECTION 204. A FEW BASIC DESIGN GUIDELINES FOR THE USE OF A HAY BALE BARRIER ARE:

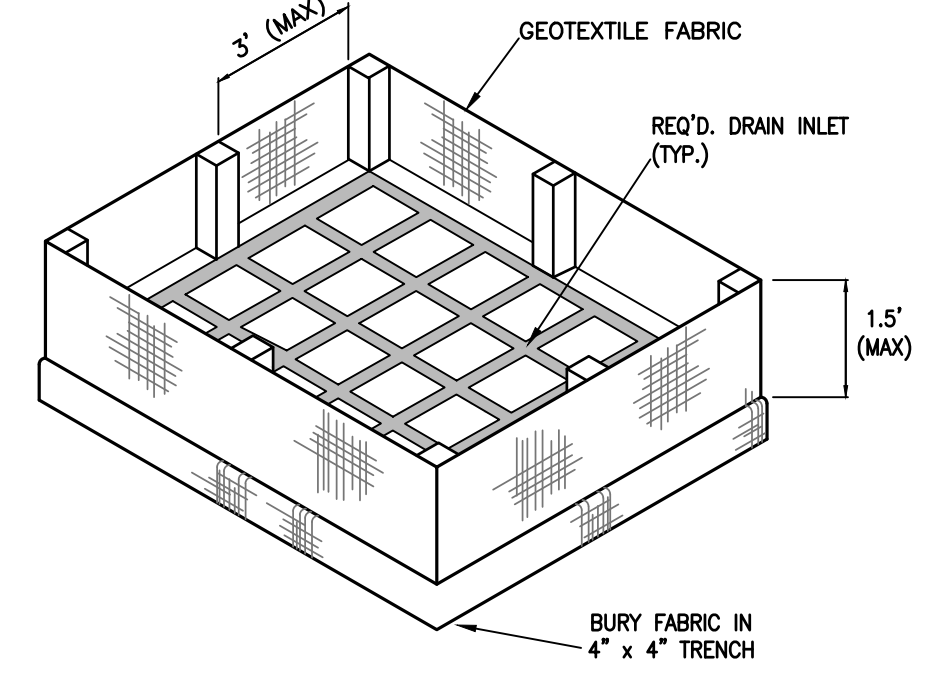
1. USE WHERE EROSION WOULD OCCUR IN THE FORM OF SHEET AND FILL EROSION.
2. USE IN MINOR SWALES OR DITCHES WHERE THE MAXIMUM DRAINAGE AREA IS 2 ACRES.
3. ONLY USE WHERE THE EFFECTIVENESS IS REQUIRED FOR LESS THAN 3 MONTHS.
4. DO NOT USE IN LIVE STREAMS OR IN SWALES DITCHES WHERE THERE IS A POSSIBILITY OF A WASHOUT.



**DETAIL 'A'**  
N.T.S.



**SILT FENCE DETAIL**  
N.T.S.

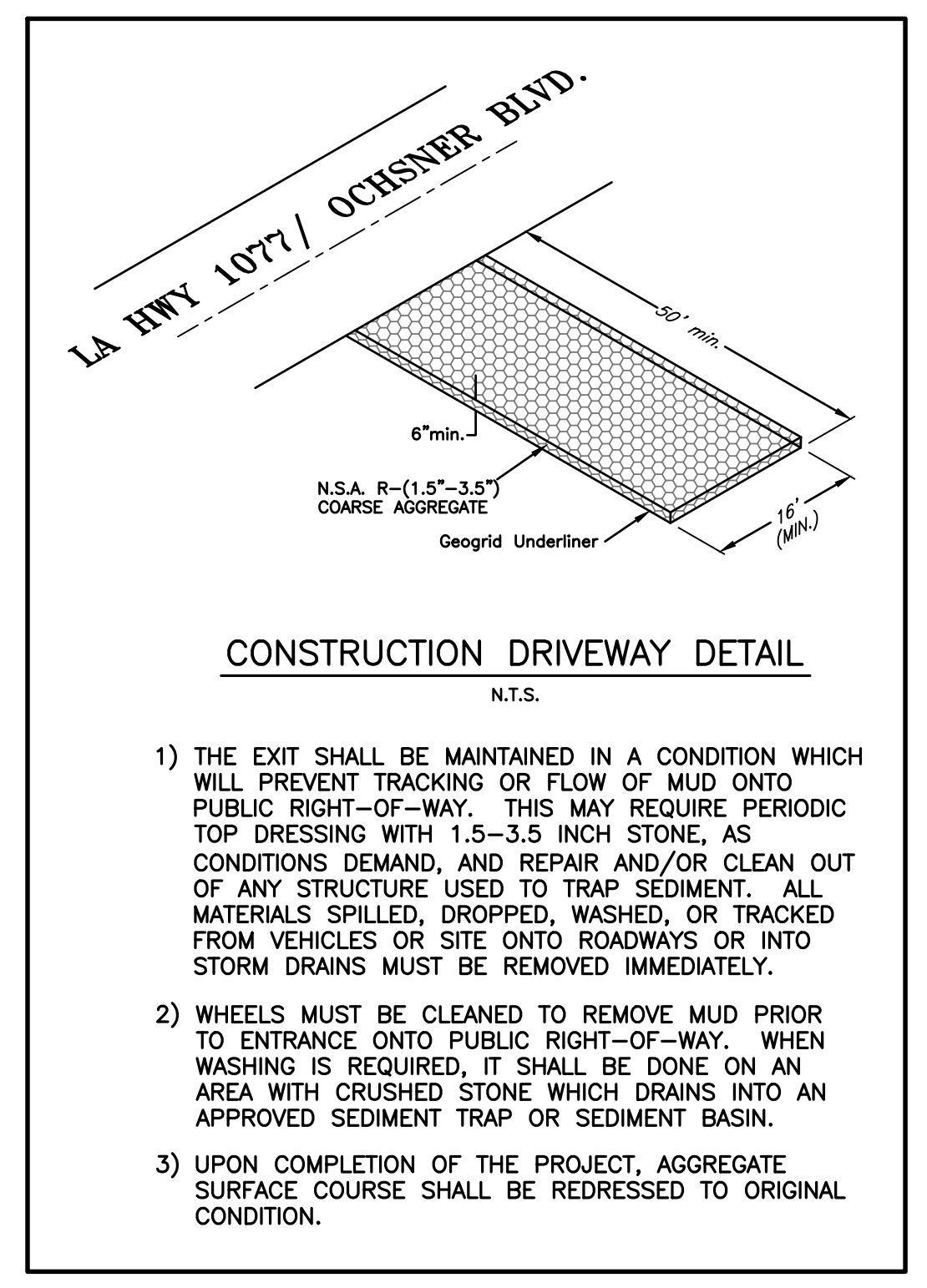


**ISOMETRIC VIEW SHOWING GEOTEXTILE FABRIC**  
**TEMPORARY INLET SILT TRAP**  
N.T.S.

**DETAIL 'B'**  
N.T.S.

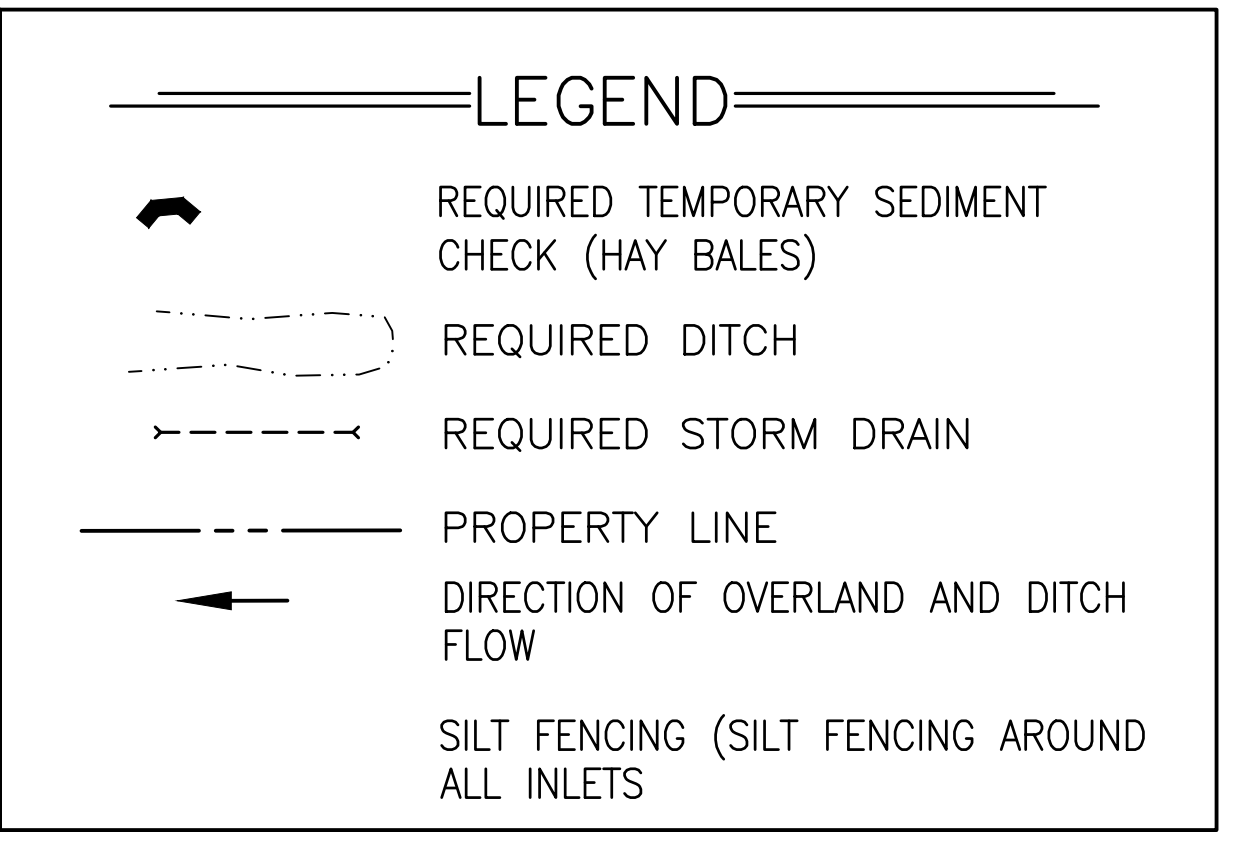
**NOTES FOR TEMPORARY INLET SILT TRAP:**  
THE TEMPORARY DROP INLET SILT TRAP IS TO BE USED FOR SMALL DRAINAGE AREAS (LESS THAN 1 ACRE) WHERE THE STORM DRAIN IS FUNCTIONAL BEFORE THE AREA IS STABILIZED. THE TRAP CAN BE EITHER GEOTEXTILE FABRIC OR HAY BALES.

1. THE GEOTEXTILE FABRIC SHALL CONFORM TO SECTION 1019 (TYPE G) OF THE LA DOTD STANDARD SPECIFICATIONS.
2. WOODEN STAKES SUPPORTING THE FABRIC SHALL BE 2" x 2" OR 2" x 4" WITH A MINIMUM LENGTH OF 3 FEET. THE STAKES SHALL BE SPACED AROUND THE INLET AT A MAXIMUM SPACING OF 3 FEET.
3. THE HEIGHT OF THE FABRIC ABOVE THE INLET SHALL BE LIMITED TO 1.5' AND THE BOTTOM OF THE FABRIC SHALL BE BURIED IN A TRENCH APPROXIMATELY 4" WIDE BY 4" DEEP. THE FABRIC SHALL BE STAPLED TO THE POST WITH 1/2" STAPLES.
4. THE TRAP SHOULD BE INSPECTED REGULARLY AND AFTER EACH STORM. THE SEDIMENT SHOULD BE REMOVED AND MAKE SURE EACH STAKE IS FIRMLY ANCHORED IN THE GROUND.



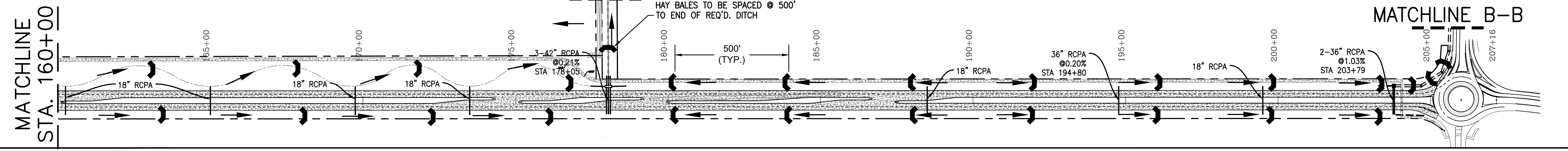
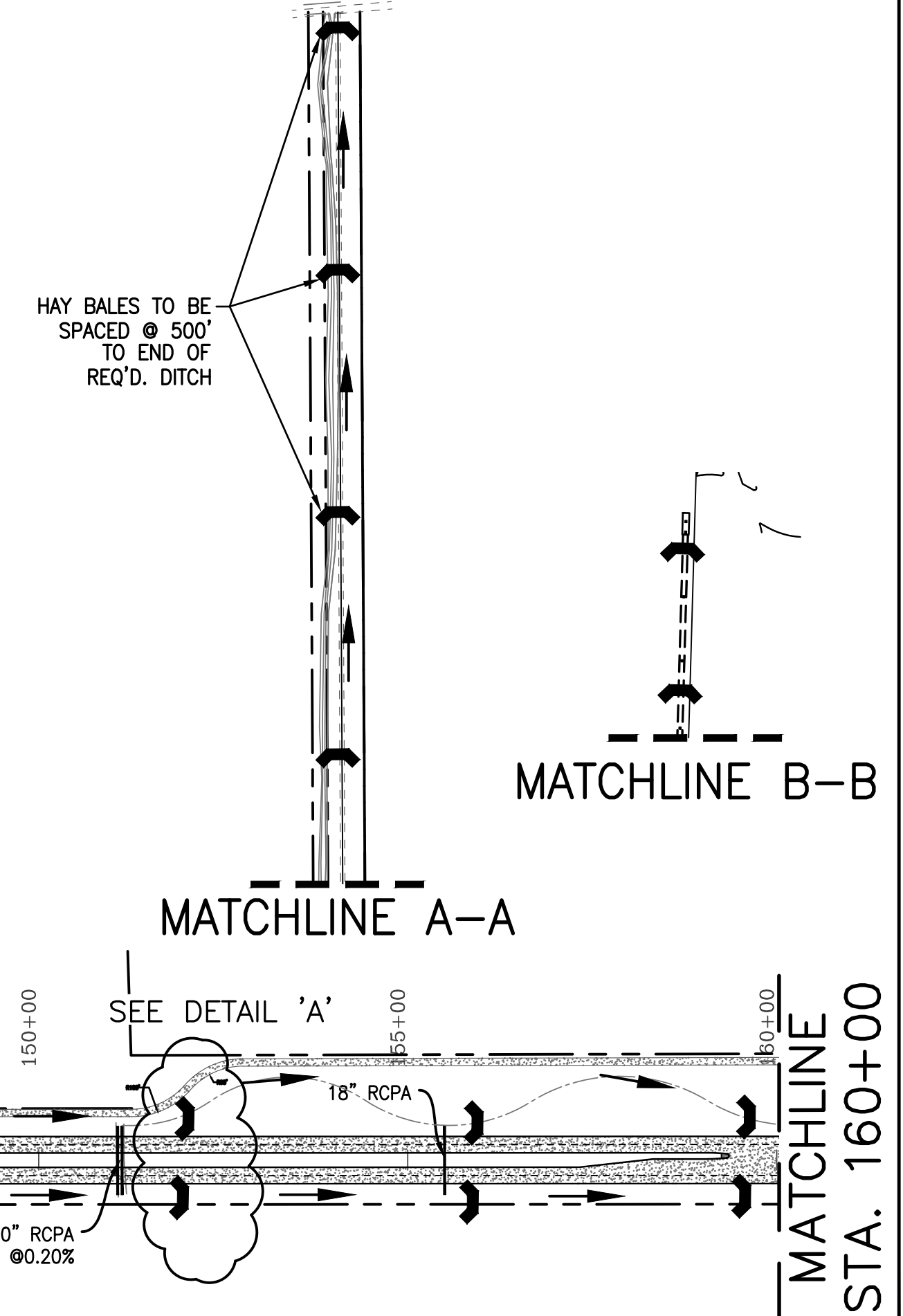
**CONSTRUCTION DRIVEWAY DETAIL**  
N.T.S.

- 1) THE EXIT SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOW OF MUD ONTO PUBLIC RIGHT-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH 1.5-3.5 INCH STONE, AS CONDITIONS DEMAND, AND REPAIR AND/OR CLEAN OUT OF ANY STRUCTURE USED TO TRAP SEDIMENT. ALL MATERIALS SPILLED, DROPPED, WASHED, OR TRACKED FROM VEHICLES OR SITE ONTO ROADWAYS OR INTO STORM DRAINS MUST BE REMOVED IMMEDIATELY.
- 2) WHEELS MUST BE CLEANED TO REMOVE MUD PRIOR TO ENTRANCE ONTO PUBLIC RIGHT-OF-WAY. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA WITH CRUSHED STONE WHICH DRAINS INTO AN APPROVED SEDIMENT TRAP OR SEDIMENT BASIN.
- 3) UPON COMPLETION OF THE PROJECT, AGGREGATE SURFACE COURSE SHALL BE REDRESSED TO ORIGINAL CONDITION.



**EROSION CONTROL NOTES:**

1. THIS PLAN IS A REFERENCE TO LADOTD STANDARD PLAN EC-01 AND SECTION 204 OF THE LOUISIANA STANDARD SPECIFICATIONS FOR ROADS AND BRIDGES, 2006 EDITION. IT IS INTENDED TO ILLUSTRATE MINIMUM EROSION CONTROL EFFORTS TO AID IN THE PRESERVATION OF WATER QUALITY. ACTUAL EROSION CONTROL MEASURES MAY NEED TO BE INCREASED THROUGHOUT THE COURSE OF CONSTRUCTION. EROSION CONTROL SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
2. CONTRACTOR SHALL INSTALL HAY BALES AND/ OR SILT FENCING AROUND ALL DRAIN INLETS. ALL COSTS FOR EROSION CONTROL MEASURES AROUND DRAIN INLETS SHALL BE INCLUDED IN COST FOR DRAIN INLET. NO SEPARATE MEASUREMENT OR PAYMENT SHALL BE MADE FOR THIS ITEM OF WORK.
3. TEMPORARY STONE CONSTRUCTION ENTRANCES SHALL BE CONSTRUCTED WHEREVER CONSTRUCTION VEHICLES EXIT THE PROJECT LIMITS. THIS ITEM OF WORK SHALL BE IN ACCORDANCE WITH SECTION 204 OF THE LOUISIANA STANDARD SPECIFICATIONS FOR ROADS AND BRIDGES, 2006 EDITION. THERE SHALL BE NO MEASUREMENT OR DIRECT PAYMENT OF TEMPORARY STONE CONSTRUCTION ENTRANCES.
4. TEMPORARY SILT FENCING SHALL BE INSTALLED ALONG THE COMPLETE LENGTH OF PROJECT ON BOTH SIDES OF ROADWAY. SEE LADOTD STANDARD PLAN EC-01 FOR DETAILS.



**Engineering Planning Construction Management**

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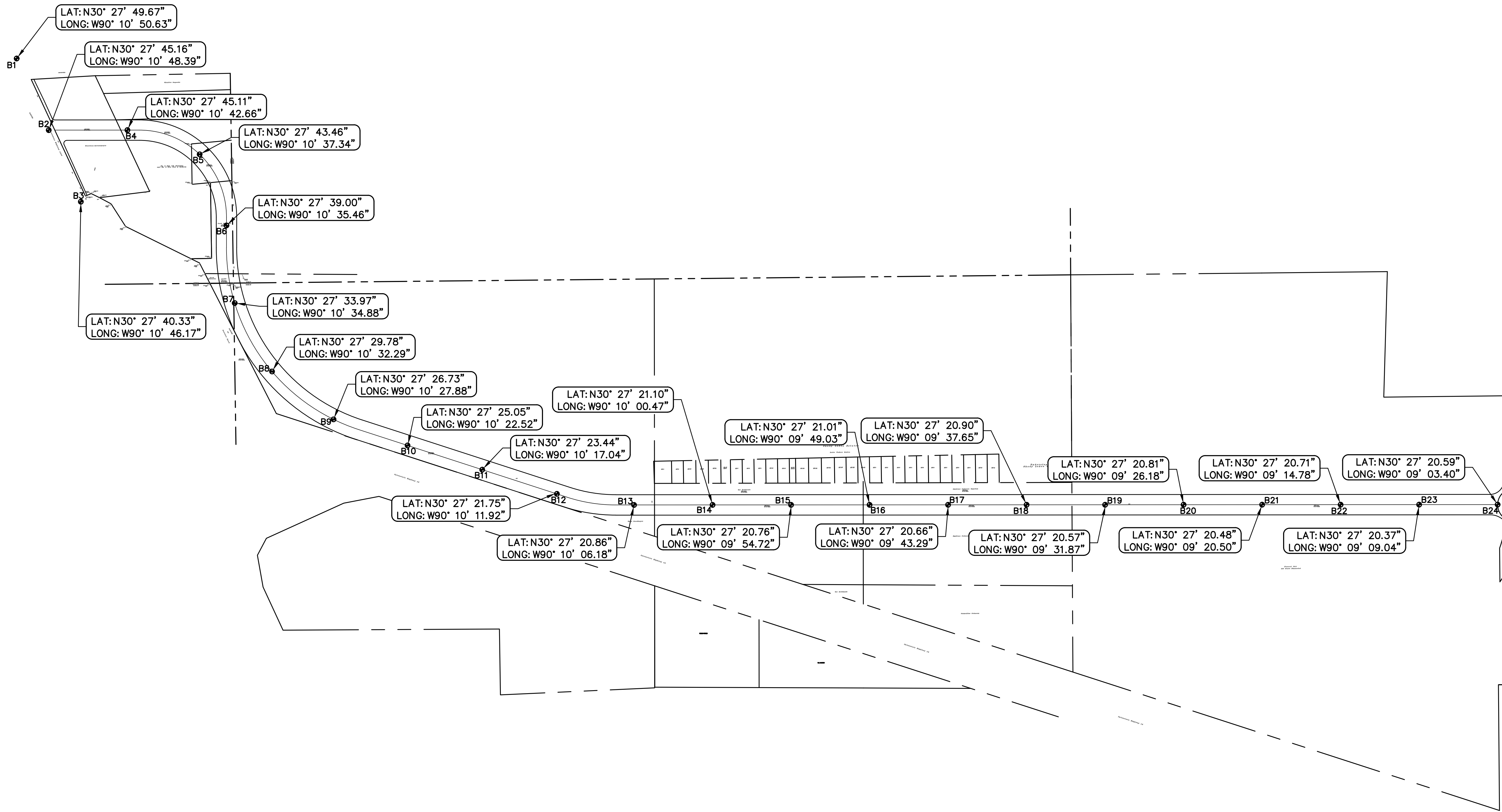
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LEW	FJZ		

**EROSION CONTROL**  
LA 1077/LA 21 CONNECTOR ROAD

Project Number: RCLC No: 714-08

FRANK ZIEMER  
LICENSE NO. 28232  
PROFESSIONAL ENGINEER  
01/21/2021  
Sheet Number: 47





DESIGNED	ATL	CHECKED	FJZ	DATE
				04/29/21

DETAILED	LBW	CHECKED	FJZ	DATE

NO.	DATE	REVISION DESCRIPTION	BY

**SOIL BORING  
LOCATIONS**

LA 1077/LA 21 CONNECTOR ROAD

Project Number:  
RCLC No: 714-08



04/29/2021  
Sheet Number:



**BORING NUMBER 1**  
PAGE 1 OF 1

**GE GILLEN ENGINEERING, LLC**  
Soil and Foundation Consultants  
Construction Materials Testing

CLIENT Richard C. Lambert Consultants, LLC PROJECT NAME LA Hwy 1077 Connector Road  
 PROJECT NUMBER 9502.01 PROJECT LOCATION Covington, Louisiana  
 DATE STARTED 7/18/17 COMPLETED 7/18/17 GROUND ELEVATION \_\_\_\_\_ HOLE SIZE 4 inches  
 DRILLING CONTRACTOR Triangle Resources, Inc. GROUND WATER LEVELS:  
 DRILLING METHOD Machine Auger AT TIME OF DRILLING ---  
 LOGGED BY C. Melerine CHECKED BY G. Gillen AT END OF DRILLING --- no free water  
 NOTES Boring backfilled with soil cuttings AFTER DRILLING ---

DEPTH (ft)	SYMBOL	SAMPLES	MATERIAL DESCRIPTION	FIELD TEST RESULTS (N-value)	% FINES	COHESION (ksf)	MOISTURE CONTENT %	DRY UNIT WT. (pcf)	PLASTICITY INDEX	△ SPT N VALUE △		
										20	40	60
0			Stiff tan silty clay (CL)		93.8	1.51	20	104	18	●	○	
			- hard, tan and gray below 2'		6.94	16	113	17	●	○		
5			Very stiff gray clay (CH)		2.06	23	103	45	●	○		

Bottom of borehole at 6.0 feet.

**BORING NUMBER 4**  
PAGE 1 OF 1

**GE GILLEN ENGINEERING, LLC**  
Soil and Foundation Consultants  
Construction Materials Testing

CLIENT Richard C. Lambert Consultants, LLC PROJECT NAME LA Hwy 1077 Connector Road  
 PROJECT NUMBER 9502.01 PROJECT LOCATION Covington, Louisiana  
 DATE STARTED 7/18/17 COMPLETED 7/18/17 GROUND ELEVATION \_\_\_\_\_ HOLE SIZE 4 inches  
 DRILLING CONTRACTOR Triangle Resources, Inc. GROUND WATER LEVELS:  
 DRILLING METHOD Machine Auger AT TIME OF DRILLING ---  
 LOGGED BY C. Melerine CHECKED BY G. Gillen AT END OF DRILLING --- standing water around boring  
 NOTES Boring backfilled with soil cuttings AFTER DRILLING ---

DEPTH (ft)	SYMBOL	SAMPLES	MATERIAL DESCRIPTION	FIELD TEST RESULTS (N-value)	% FINES	COHESION (ksf)	MOISTURE CONTENT %	DRY UNIT WT. (pcf)	PLASTICITY INDEX	△ SPT N VALUE △		
										20	40	60
0			Loose gray silt (ML)		88.3	1.03	18	93	NP	●	○	
			Hard tan and light gray silty clay (CH)		10.48	14	109	27	●	○		
5					10.67	13	114		●	○		

Bottom of borehole at 6.0 feet.

**BORING NUMBER 2**  
PAGE 1 OF 1

**GE GILLEN ENGINEERING, LLC**  
Soil and Foundation Consultants  
Construction Materials Testing

CLIENT Richard C. Lambert Consultants, LLC PROJECT NAME LA Hwy 1077 Connector Road  
 PROJECT NUMBER 9502.01 PROJECT LOCATION Covington, Louisiana  
 DATE STARTED 7/18/17 COMPLETED 7/18/17 GROUND ELEVATION \_\_\_\_\_ HOLE SIZE 4 inches  
 DRILLING CONTRACTOR Triangle Resources, Inc. GROUND WATER LEVELS:  
 DRILLING METHOD Machine Auger AT TIME OF DRILLING ---  
 LOGGED BY C. Melerine CHECKED BY G. Gillen AT END OF DRILLING --- no free water  
 NOTES Boring backfilled with soil cuttings AFTER DRILLING ---

DEPTH (ft)	SYMBOL	SAMPLES	MATERIAL DESCRIPTION	FIELD TEST RESULTS (N-value)	% FINES	COHESION (ksf)	MOISTURE CONTENT %	DRY UNIT WT. (pcf)	PLASTICITY INDEX	△ SPT N VALUE △		
										20	40	60
0			Loose gray clayey silt (ML)			1.29	20	104	4	●	○	
			Very stiff tan and gray silty clay (CL)		93.7	2.11	20	108	30	●	○	
5			- hard below 4'		4.59	16	112		●	○		

Bottom of borehole at 6.0 feet.

**BORING NUMBER 5**  
PAGE 1 OF 1

**GE GILLEN ENGINEERING, LLC**  
Soil and Foundation Consultants  
Construction Materials Testing

CLIENT Richard C. Lambert Consultants, LLC PROJECT NAME LA Hwy 1077 Connector Road  
 PROJECT NUMBER 9502.01 PROJECT LOCATION Covington, Louisiana  
 DATE STARTED 7/18/17 COMPLETED 7/18/17 GROUND ELEVATION \_\_\_\_\_ HOLE SIZE 4 inches  
 DRILLING CONTRACTOR Triangle Resources, Inc. GROUND WATER LEVELS:  
 DRILLING METHOD Machine Auger AT TIME OF DRILLING ---  
 LOGGED BY C. Melerine CHECKED BY G. Gillen AT END OF DRILLING --- standing water around boring  
 NOTES Boring backfilled with soil cuttings AFTER DRILLING ---

DEPTH (ft)	SYMBOL	SAMPLES	MATERIAL DESCRIPTION	FIELD TEST RESULTS (N-value)	% FINES	COHESION (ksf)	MOISTURE CONTENT %	DRY UNIT WT. (pcf)	PLASTICITY INDEX	△ SPT N VALUE △		
										20	40	60
0			Very stiff gray silty clay (CL)			2.55	12	100	16	●	○	
					2.40	19	110		●	○		
5			- hard, tan and light gray below 4'		94.5	5.72	17	113	32	●	○	

Bottom of borehole at 6.0 feet.

**BORING NUMBER 3**  
PAGE 1 OF 1

**GE GILLEN ENGINEERING, LLC**  
Soil and Foundation Consultants  
Construction Materials Testing

CLIENT Richard C. Lambert Consultants, LLC PROJECT NAME LA Hwy 1077 Connector Road  
 PROJECT NUMBER 9502.01 PROJECT LOCATION Covington, Louisiana  
 DATE STARTED 7/18/17 COMPLETED 7/18/17 GROUND ELEVATION \_\_\_\_\_ HOLE SIZE 4 inches  
 DRILLING CONTRACTOR Triangle Resources, Inc. GROUND WATER LEVELS:  
 DRILLING METHOD Machine Auger AT TIME OF DRILLING ---  
 LOGGED BY C. Melerine CHECKED BY G. Gillen AT END OF DRILLING --- no free water  
 NOTES Boring backfilled with soil cuttings AFTER DRILLING ---

DEPTH (ft)	SYMBOL	SAMPLES	MATERIAL DESCRIPTION	FIELD TEST RESULTS (N-value)	% FINES	COHESION (ksf)	MOISTURE CONTENT %	DRY UNIT WT. (pcf)	PLASTICITY INDEX	△ SPT N VALUE △		
										20	40	60
0			Stiff gray silty clay (CL)		84.2	1.52	16	108	7	●	○	
					1.24	22	102		●	○		
5			- hard below 4'		4.30	16	117		●	○		

Bottom of borehole at 6.0 feet.

**BORING NUMBER 6**  
PAGE 1 OF 1

**GE GILLEN ENGINEERING, LLC**  
Soil and Foundation Consultants  
Construction Materials Testing

CLIENT Richard C. Lambert Consultants, LLC PROJECT NAME LA Hwy 1077 Connector Road  
 PROJECT NUMBER 9502.01 PROJECT LOCATION Covington, Louisiana  
 DATE STARTED 7/18/17 COMPLETED 7/18/17 GROUND ELEVATION \_\_\_\_\_ HOLE SIZE 4 inches  
 DRILLING CONTRACTOR Triangle Resources, Inc. GROUND WATER LEVELS:  
 DRILLING METHOD Machine Auger AT TIME OF DRILLING ---  
 LOGGED BY C. Melerine CHECKED BY G. Gillen AT END OF DRILLING --- no free water  
 NOTES Boring backfilled with soil cuttings AFTER DRILLING ---

DEPTH (ft)	SYMBOL	SAMPLES	MATERIAL DESCRIPTION	FIELD TEST RESULTS (N-value)	% FINES	COHESION (ksf)	MOISTURE CONTENT %	DRY UNIT WT. (pcf)	PLASTICITY INDEX	△ SPT N VALUE △		
										20	40	60
0			Dense tan silt (ML)			5.53	11	113	NP	●	○	
			Stiff gray silty clay (CL)		88.9	1.39	18	105	21	●	○	
5			Very soft gray clay (CH) - with wood		0.22	76	56		●	○		

Bottom of borehole at 6.0 feet.



**RICHARD C. LAMBERT**  
CONSULTANTS, L.L.C.  
Engineering  
Planning  
Construction  
Management

DESIGNED	ATL	DATE	04/29/21
CHECKED	FJZ	SHEET	49
REVISION	DESCRIPTION	NO.	DATE


**SOIL BORINGS**  
LA 1077/LA 21 CONNECTOR ROAD

Project Number:  
RCLC No: 714-08



04/29/2021  
Sheet Number:

**49**



**GE GILLEN ENGINEERING, LLC**  
Soil and Foundation Consultants  
Construction Materials Testing

**BORING NUMBER 7**  
PAGE 1 OF 1

CLIENT Richard C. Lambert Consultants, LLC PROJECT NAME LA Hwy 1077 Connector Road  
PROJECT NUMBER 9502.01 PROJECT LOCATION Covington, Louisiana  
DATE STARTED 7/18/17 COMPLETED 7/18/17 GROUND ELEVATION \_\_\_\_\_ HOLE SIZE 4 inches  
DRILLING CONTRACTOR Triangle Resources, Inc. GROUND WATER LEVELS: \_\_\_\_\_  
DRILLING METHOD Machine Auger AT TIME OF DRILLING ---  
LOGGED BY C. Melerine CHECKED BY G. Gillen AT END OF DRILLING --- standing water around boring  
NOTES Boring backfilled with soil cuttings AFTER DRILLING ---

DEPTH (ft)	SYMBOL	SAMPLES	MATERIAL DESCRIPTION	FIELD TEST RESULTS (N-value)	% FINES	COHESION (ksf)	MOISTURE CONTENT %	DRY UNIT WT. (pcf)	PLASTICITY INDEX	△ SPT N VALUE △			
										20	40	60	80
0			Loose light gray clayey silt (ML)			1.43	17	103	4	●	○	○	○
2			Stiff light gray silty clay (CL)		93.6	1.37	18	106	18	●	○	○	○
5			- hard below 4'			4.24	13	112		●	○	○	○

Bottom of borehole at 6.0 feet.

**GE GILLEN ENGINEERING, LLC**  
Soil and Foundation Consultants  
Construction Materials Testing

**BORING NUMBER 10**  
PAGE 1 OF 1

CLIENT Richard C. Lambert Consultants, LLC PROJECT NAME LA Hwy 1077 Connector Road  
PROJECT NUMBER 9502.01 PROJECT LOCATION Covington, Louisiana  
DATE STARTED 7/18/17 COMPLETED 7/18/17 GROUND ELEVATION \_\_\_\_\_ HOLE SIZE 4 inches  
DRILLING CONTRACTOR Triangle Resources, Inc. GROUND WATER LEVELS: \_\_\_\_\_  
DRILLING METHOD Machine Auger AT TIME OF DRILLING ---  
LOGGED BY C. Melerine CHECKED BY G. Gillen AT END OF DRILLING --- standing water around boring  
NOTES Boring backfilled with soil cuttings AFTER DRILLING ---

DEPTH (ft)	SYMBOL	SAMPLES	MATERIAL DESCRIPTION	FIELD TEST RESULTS (N-value)	% FINES	COHESION (ksf)	MOISTURE CONTENT %	DRY UNIT WT. (pcf)	PLASTICITY INDEX	△ SPT N VALUE △			
										20	40	60	80
0			Very stiff tan and light gray silty clay (CL)			2.26	16	110	22	●	○	○	○
2			- hard 2' - 4'		91.5	5.64	11	111	26	●	○	○	○
5			- stiff below 4'			1.13	25	99		●	○	○	○

Bottom of borehole at 6.0 feet.

**GE GILLEN ENGINEERING, LLC**  
Soil and Foundation Consultants  
Construction Materials Testing

**BORING NUMBER 8**  
PAGE 1 OF 1

CLIENT Richard C. Lambert Consultants, LLC PROJECT NAME LA Hwy 1077 Connector Road  
PROJECT NUMBER 9502.01 PROJECT LOCATION Covington, Louisiana  
DATE STARTED 7/18/17 COMPLETED 7/18/17 GROUND ELEVATION \_\_\_\_\_ HOLE SIZE 4 inches  
DRILLING CONTRACTOR Triangle Resources, Inc. GROUND WATER LEVELS: \_\_\_\_\_  
DRILLING METHOD Machine Auger AT TIME OF DRILLING ---  
LOGGED BY C. Melerine CHECKED BY G. Gillen AT END OF DRILLING --- standing water around boring  
NOTES Boring backfilled with soil cuttings AFTER DRILLING ---

DEPTH (ft)	SYMBOL	SAMPLES	MATERIAL DESCRIPTION	FIELD TEST RESULTS (N-value)	% FINES	COHESION (ksf)	MOISTURE CONTENT %	DRY UNIT WT. (pcf)	PLASTICITY INDEX	△ SPT N VALUE △			
										20	40	60	80
0			Loose tan silt (ML)			1.07	17	109	NP	●	○	○	○
2			Very stiff tan and light gray silty clay (CL)			3.00	19	108		●	○	○	○
5					91.2	2.24	19	106	21	●	○	○	○

Bottom of borehole at 6.0 feet.

**GE GILLEN ENGINEERING, LLC**  
Soil and Foundation Consultants  
Construction Materials Testing

**BORING NUMBER 11**  
PAGE 1 OF 1

CLIENT Richard C. Lambert Consultants, LLC PROJECT NAME LA Hwy 1077 Connector Road  
PROJECT NUMBER 9502.01 PROJECT LOCATION Covington, Louisiana  
DATE STARTED 7/18/17 COMPLETED 7/18/17 GROUND ELEVATION \_\_\_\_\_ HOLE SIZE 4 inches  
DRILLING CONTRACTOR Triangle Resources, Inc. GROUND WATER LEVELS: \_\_\_\_\_  
DRILLING METHOD Machine Auger AT TIME OF DRILLING ---  
LOGGED BY C. Melerine CHECKED BY G. Gillen AT END OF DRILLING --- standing water around boring  
NOTES Boring backfilled with soil cuttings AFTER DRILLING ---

DEPTH (ft)	SYMBOL	SAMPLES	MATERIAL DESCRIPTION	FIELD TEST RESULTS (N-value)	% FINES	COHESION (ksf)	MOISTURE CONTENT %	DRY UNIT WT. (pcf)	PLASTICITY INDEX	△ SPT N VALUE △			
										20	40	60	80
0			Loose tan and light gray silt (ML)			1.37	18	107	NP	●	○	○	○
2			Firm tan and light gray silty clay (CL)			0.94	23	103		●	○	○	○
5			- very stiff below 4'		86.1	2.10	17	112	21	●	○	○	○

Bottom of borehole at 6.0 feet.

**GE GILLEN ENGINEERING, LLC**  
Soil and Foundation Consultants  
Construction Materials Testing

**BORING NUMBER 9**  
PAGE 1 OF 1

CLIENT Richard C. Lambert Consultants, LLC PROJECT NAME LA Hwy 1077 Connector Road  
PROJECT NUMBER 9502.01 PROJECT LOCATION Covington, Louisiana  
DATE STARTED 7/18/17 COMPLETED 7/18/17 GROUND ELEVATION \_\_\_\_\_ HOLE SIZE 4 inches  
DRILLING CONTRACTOR Triangle Resources, Inc. GROUND WATER LEVELS: \_\_\_\_\_  
DRILLING METHOD Machine Auger AT TIME OF DRILLING ---  
LOGGED BY C. Melerine CHECKED BY G. Gillen AT END OF DRILLING --- standing water around boring  
NOTES Boring backfilled with soil cuttings AFTER DRILLING ---

DEPTH (ft)	SYMBOL	SAMPLES	MATERIAL DESCRIPTION	FIELD TEST RESULTS (N-value)	% FINES	COHESION (ksf)	MOISTURE CONTENT %	DRY UNIT WT. (pcf)	PLASTICITY INDEX	△ SPT N VALUE △			
										20	40	60	80
0			Loose gray clayey silt (ML)			1.31	16	102	5	●	○	○	○
2			Stiff light gray silty clay (CL)		86.6	1.51	23	101	32	●	○	○	○
5			Very stiff tan and light gray clay (CH)			3.19	18	112	35	●	○	○	○

Bottom of borehole at 6.0 feet.

**GE GILLEN ENGINEERING, LLC**  
Soil and Foundation Consultants  
Construction Materials Testing

**BORING NUMBER 12**  
PAGE 1 OF 1

CLIENT Richard C. Lambert Consultants, LLC PROJECT NAME LA Hwy 1077 Connector Road  
PROJECT NUMBER 9502.01 PROJECT LOCATION Covington, Louisiana  
DATE STARTED 7/18/17 COMPLETED 7/18/17 GROUND ELEVATION \_\_\_\_\_ HOLE SIZE 4 inches  
DRILLING CONTRACTOR Triangle Resources, Inc. GROUND WATER LEVELS: \_\_\_\_\_  
DRILLING METHOD Machine Auger AT TIME OF DRILLING ---  
LOGGED BY C. Melerine CHECKED BY G. Gillen AT END OF DRILLING --- standing water around boring  
NOTES Boring backfilled with soil cuttings AFTER DRILLING ---

DEPTH (ft)	SYMBOL	SAMPLES	MATERIAL DESCRIPTION	FIELD TEST RESULTS (N-value)	% FINES	COHESION (ksf)	MOISTURE CONTENT %	DRY UNIT WT. (pcf)	PLASTICITY INDEX	△ SPT N VALUE △			
										20	40	60	80
0			Loose tan clayey silt (ML)			90.5	0.80	23	97	5	●	○	○
2			Very stiff tan and light gray silty clay (CL)			2.07	20	106	30	●	○	○	○
5			- hard below 4'			4.07	17	111		●	○	○	○

Bottom of borehole at 6.0 feet.



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DESIGNED	ATL
CHECKED	FJZ
DETAILED	LBW
CHECKED	FJZ
DATE	04/29/21
SHEET	50

NO.	DATE	BY	REVISION DESCRIPTION

**SOIL BORINGS**  
LA 1077/LA 21 CONNECTOR ROAD

Project Number:  
RCLC No: 714-08



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**50**



**GE GILLEN ENGINEERING, LLC**  
Soil and Foundation Consultants  
Construction Materials Testing

**BORING NUMBER 13**  
PAGE 1 OF 1

CLIENT Richard C. Lambert Consultants, LLC PROJECT NAME LA Hwy 1077 Connector Road  
PROJECT NUMBER 9502.01 PROJECT LOCATION Covington, Louisiana  
DATE STARTED 7/18/17 COMPLETED 7/18/17 GROUND ELEVATION \_\_\_\_\_ HOLE SIZE 4 inches  
DRILLING CONTRACTOR Triangle Resources, Inc. GROUND WATER LEVELS: \_\_\_\_\_  
DRILLING METHOD Machine Auger AT TIME OF DRILLING \_\_\_\_\_  
LOGGED BY C. Melerine CHECKED BY G. Gillen AT END OF DRILLING --- standing water around boring  
NOTES Boring backfilled with soil cuttings AFTER DRILLING \_\_\_\_\_

DEPTH (ft)	SYMBOL	SAMPLES	MATERIAL DESCRIPTION	FIELD TEST RESULTS (N-value)	% FINES	COHESION (ksf)	MOISTURE CONTENT %	DRY UNIT WT. (pcf)	PLASTICITY INDEX	△ SPT N VALUE △			
										20	40	60	80
0			Stiff tan silty clay (CL)			1.45	22	101	8	●	●	●	●
			- hard, tan and light gray below 2'			4.14	15	112	18	●	●	●	●
5			Very dense tan and light gray silt (ML)			93.6	7.63	113	NP	●	●	●	●

Bottom of borehole at 6.0 feet.

**GE GILLEN ENGINEERING, LLC**  
Soil and Foundation Consultants  
Construction Materials Testing

**BORING NUMBER 16**  
PAGE 1 OF 1

CLIENT Richard C. Lambert Consultants, LLC PROJECT NAME LA Hwy 1077 Connector Road  
PROJECT NUMBER 9502.01 PROJECT LOCATION Covington, Louisiana  
DATE STARTED 7/18/17 COMPLETED 7/18/17 GROUND ELEVATION \_\_\_\_\_ HOLE SIZE 4 inches  
DRILLING CONTRACTOR Triangle Resources, Inc. GROUND WATER LEVELS: \_\_\_\_\_  
DRILLING METHOD Machine Auger AT TIME OF DRILLING \_\_\_\_\_  
LOGGED BY C. Melerine CHECKED BY G. Gillen AT END OF DRILLING --- standing water around boring  
NOTES Boring backfilled with soil cuttings AFTER DRILLING \_\_\_\_\_

DEPTH (ft)	SYMBOL	SAMPLES	MATERIAL DESCRIPTION	FIELD TEST RESULTS (N-value)	% FINES	COHESION (ksf)	MOISTURE CONTENT %	DRY UNIT WT. (pcf)	PLASTICITY INDEX	△ SPT N VALUE △			
										20	40	60	80
0			Hard tan and light gray clay (CH)			6.09	16	104	38	●	●	●	●
			Stiff tan and light gray silty clay (CL)			96.4	1.11	105	29	●	●	●	●
5						1.50	23	100	30	●	●	●	●

Bottom of borehole at 6.0 feet.

**GE GILLEN ENGINEERING, LLC**  
Soil and Foundation Consultants  
Construction Materials Testing

**BORING NUMBER 14**  
PAGE 1 OF 1

CLIENT Richard C. Lambert Consultants, LLC PROJECT NAME LA Hwy 1077 Connector Road  
PROJECT NUMBER 9502.01 PROJECT LOCATION Covington, Louisiana  
DATE STARTED 7/18/17 COMPLETED 7/18/17 GROUND ELEVATION \_\_\_\_\_ HOLE SIZE 4 inches  
DRILLING CONTRACTOR Triangle Resources, Inc. GROUND WATER LEVELS: \_\_\_\_\_  
DRILLING METHOD Machine Auger AT TIME OF DRILLING \_\_\_\_\_  
LOGGED BY C. Melerine CHECKED BY G. Gillen AT END OF DRILLING --- standing water around boring  
NOTES Boring backfilled with soil cuttings AFTER DRILLING \_\_\_\_\_

DEPTH (ft)	SYMBOL	SAMPLES	MATERIAL DESCRIPTION	FIELD TEST RESULTS (N-value)	% FINES	COHESION (ksf)	MOISTURE CONTENT %	DRY UNIT WT. (pcf)	PLASTICITY INDEX	△ SPT N VALUE △			
										20	40	60	80
0			Stiff tan silty clay (CL)			1.52	29	93		●	●	●	●
			Hard light gray and tan clay (CH)			98.4	4.42	114	34	●	●	●	●
5			- very stiff below 4'			3.09	24	107	33	●	●	●	●

Bottom of borehole at 6.0 feet.

**GE GILLEN ENGINEERING, LLC**  
Soil and Foundation Consultants  
Construction Materials Testing

**BORING NUMBER 17**  
PAGE 1 OF 1

CLIENT Richard C. Lambert Consultants, LLC PROJECT NAME LA Hwy 1077 Connector Road  
PROJECT NUMBER 9502.01 PROJECT LOCATION Covington, Louisiana  
DATE STARTED 7/19/17 COMPLETED 7/19/17 GROUND ELEVATION \_\_\_\_\_ HOLE SIZE 4 inches  
DRILLING CONTRACTOR Triangle Resources, Inc. GROUND WATER LEVELS: \_\_\_\_\_  
DRILLING METHOD Machine Auger AT TIME OF DRILLING \_\_\_\_\_  
LOGGED BY C. Melerine CHECKED BY G. Gillen AT END OF DRILLING --- standing water around boring  
NOTES Boring backfilled with soil cuttings AFTER DRILLING \_\_\_\_\_

DEPTH (ft)	SYMBOL	SAMPLES	MATERIAL DESCRIPTION	FIELD TEST RESULTS (N-value)	% FINES	COHESION (ksf)	MOISTURE CONTENT %	DRY UNIT WT. (pcf)	PLASTICITY INDEX	△ SPT N VALUE △			
										20	40	60	80
0			Firm tan silty clay (CL)			92.0	0.74	93	13	●	●	●	●
			- tan and gray below 2'			0.84	26	90	26	●	●	●	●
5			- stiff below 4'			1.85	24	95		●	●	●	●

Bottom of borehole at 6.0 feet.

**GE GILLEN ENGINEERING, LLC**  
Soil and Foundation Consultants  
Construction Materials Testing

**BORING NUMBER 15**  
PAGE 1 OF 1

CLIENT Richard C. Lambert Consultants, LLC PROJECT NAME LA Hwy 1077 Connector Road  
PROJECT NUMBER 9502.01 PROJECT LOCATION Covington, Louisiana  
DATE STARTED 7/18/17 COMPLETED 7/18/17 GROUND ELEVATION \_\_\_\_\_ HOLE SIZE 4 inches  
DRILLING CONTRACTOR Triangle Resources, Inc. GROUND WATER LEVELS: \_\_\_\_\_  
DRILLING METHOD Machine Auger AT TIME OF DRILLING \_\_\_\_\_  
LOGGED BY C. Melerine CHECKED BY G. Gillen AT END OF DRILLING --- standing water around boring  
NOTES Boring backfilled with soil cuttings AFTER DRILLING \_\_\_\_\_

DEPTH (ft)	SYMBOL	SAMPLES	MATERIAL DESCRIPTION	FIELD TEST RESULTS (N-value)	% FINES	COHESION (ksf)	MOISTURE CONTENT %	DRY UNIT WT. (pcf)	PLASTICITY INDEX	△ SPT N VALUE △			
										20	40	60	80
0			Very stiff light gray clay (CH)			98.5	3.79	108	32	●	●	●	●
			- hard below 2'			6.44	19	113		●	●	●	●
5						5.82	20	108	46	●	●	●	●

Bottom of borehole at 6.0 feet.

**GE GILLEN ENGINEERING, LLC**  
Soil and Foundation Consultants  
Construction Materials Testing

**BORING NUMBER 18**  
PAGE 1 OF 1

CLIENT Richard C. Lambert Consultants, LLC PROJECT NAME LA Hwy 1077 Connector Road  
PROJECT NUMBER 9502.01 PROJECT LOCATION Covington, Louisiana  
DATE STARTED 7/19/17 COMPLETED 7/19/17 GROUND ELEVATION \_\_\_\_\_ HOLE SIZE 4 inches  
DRILLING CONTRACTOR Triangle Resources, Inc. GROUND WATER LEVELS: \_\_\_\_\_  
DRILLING METHOD Machine Auger AT TIME OF DRILLING \_\_\_\_\_  
LOGGED BY C. Melerine CHECKED BY G. Gillen AT END OF DRILLING --- standing water around boring  
NOTES Boring backfilled with soil cuttings AFTER DRILLING \_\_\_\_\_

DEPTH (ft)	SYMBOL	SAMPLES	MATERIAL DESCRIPTION	FIELD TEST RESULTS (N-value)	% FINES	COHESION (ksf)	MOISTURE CONTENT %	DRY UNIT WT. (pcf)	PLASTICITY INDEX	△ SPT N VALUE △			
										20	40	60	80
0			Stiff tan silty clay (CL)			95.8	1.51	91	11	●	●	●	●
			- hard, tan and light gray below 2'			6.10	18	111	26	●	●	●	●
5			Medium dense tan and light gray silt (ML)			3.59	17	111	NP	●	●	●	●

Bottom of borehole at 6.0 feet.



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DESIGNED	CHECKED	DATE	BY
ATL	FJZ	04/29/21	51
LBW	FJZ		

**SOIL BORINGS**  
LA 1077/LA 21 CONNECTOR ROAD

Project Number:  
RCLC No: 714-08



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**GE GILLEN ENGINEERING, LLC**  
Soil and Foundation Consultants  
Construction Materials Testing

**BORING NUMBER 19**  
PAGE 1 OF 1

CLIENT Richard C. Lambert Consultants, LLC PROJECT NAME LA Hwy 1077 Connector Road  
 PROJECT NUMBER 9502.01 PROJECT LOCATION Covington, Louisiana  
 DATE STARTED 7/19/17 COMPLETED 7/19/17 GROUND ELEVATION \_\_\_\_\_ HOLE SIZE 4 inches  
 DRILLING CONTRACTOR Triangle Resources, Inc. GROUND WATER LEVELS: \_\_\_\_\_  
 DRILLING METHOD Machine Auger AT TIME OF DRILLING ---  
 LOGGED BY C. Melerine CHECKED BY G. Gillen AT END OF DRILLING --- standing water around boring  
 NOTES Boring backfilled with soil cuttings AFTER DRILLING ---

DEPTH (ft)	SYMBOL	SAMPLES	MATERIAL DESCRIPTION	FIELD TEST RESULTS (N-value)	% FINES	COHESION (ksf)	MOISTURE CONTENT %	DRY UNIT WT. (pcf)	PLASTICITY INDEX	△ SPT N VALUE △			
										20	40	60	80
0			Medium dense tan silt (ML)			1.60	18	106	NP	●	○		
5			Hard tan and light gray clay (CH)		93.6	4.39	21	108	41	●	○		
5					5.35	15	116			●	○		

Bottom of borehole at 6.0 feet.

**GE GILLEN ENGINEERING, LLC**  
Soil and Foundation Consultants  
Construction Materials Testing

**BORING NUMBER 22**  
PAGE 1 OF 1

CLIENT Richard C. Lambert Consultants, LLC PROJECT NAME LA Hwy 1077 Connector Road  
 PROJECT NUMBER 9502.01 PROJECT LOCATION Covington, Louisiana  
 DATE STARTED 7/19/17 COMPLETED 7/19/17 GROUND ELEVATION \_\_\_\_\_ HOLE SIZE 4 inches  
 DRILLING CONTRACTOR Triangle Resources, Inc. GROUND WATER LEVELS: \_\_\_\_\_  
 DRILLING METHOD Machine Auger AT TIME OF DRILLING ---  
 LOGGED BY C. Melerine CHECKED BY G. Gillen AT END OF DRILLING --- standing water around boring  
 NOTES Boring backfilled with soil cuttings AFTER DRILLING ---

DEPTH (ft)	SYMBOL	SAMPLES	MATERIAL DESCRIPTION	FIELD TEST RESULTS (N-value)	% FINES	COHESION (ksf)	MOISTURE CONTENT %	DRY UNIT WT. (pcf)	PLASTICITY INDEX	△ SPT N VALUE △			
										20	40	60	80
0			Firm tan silty clay (CL)			0.75	22	97	10	○	●		
5			Medium dense tan and light gray silt (ML)			3.36	16	107	NP	●	○		
5			Hard light gray clay (CH)		98.9	4.47	14	112	35	●	○		

Bottom of borehole at 6.0 feet.

**GE GILLEN ENGINEERING, LLC**  
Soil and Foundation Consultants  
Construction Materials Testing

**BORING NUMBER 20**  
PAGE 1 OF 1

CLIENT Richard C. Lambert Consultants, LLC PROJECT NAME LA Hwy 1077 Connector Road  
 PROJECT NUMBER 9502.01 PROJECT LOCATION Covington, Louisiana  
 DATE STARTED 7/19/17 COMPLETED 7/19/17 GROUND ELEVATION \_\_\_\_\_ HOLE SIZE 4 inches  
 DRILLING CONTRACTOR Triangle Resources, Inc. GROUND WATER LEVELS: \_\_\_\_\_  
 DRILLING METHOD Machine Auger AT TIME OF DRILLING ---  
 LOGGED BY C. Melerine CHECKED BY G. Gillen AT END OF DRILLING --- standing water around boring  
 NOTES Boring backfilled with soil cuttings AFTER DRILLING ---

DEPTH (ft)	SYMBOL	SAMPLES	MATERIAL DESCRIPTION	FIELD TEST RESULTS (N-value)	% FINES	COHESION (ksf)	MOISTURE CONTENT %	DRY UNIT WT. (pcf)	PLASTICITY INDEX	△ SPT N VALUE △			
										20	40	60	80
0			Loose tan and light gray silt (ML)			1.00	22	99	NP	●	○		
5			Very stiff tan and light gray clay (CH)		94.8	3.32	22	105	41	●	○		
5			Very stiff tan and light gray silty clay (CL)		2.76	18	106	27		●	○		

Bottom of borehole at 6.0 feet.

**GE GILLEN ENGINEERING, LLC**  
Soil and Foundation Consultants  
Construction Materials Testing

**BORING NUMBER 23**  
PAGE 1 OF 1

CLIENT Richard C. Lambert Consultants, LLC PROJECT NAME LA Hwy 1077 Connector Road  
 PROJECT NUMBER 9502.01 PROJECT LOCATION Covington, Louisiana  
 DATE STARTED 7/19/17 COMPLETED 7/19/17 GROUND ELEVATION \_\_\_\_\_ HOLE SIZE 4 inches  
 DRILLING CONTRACTOR Triangle Resources, Inc. GROUND WATER LEVELS: \_\_\_\_\_  
 DRILLING METHOD Machine Auger AT TIME OF DRILLING ---  
 LOGGED BY C. Melerine CHECKED BY G. Gillen AT END OF DRILLING --- no free water  
 NOTES Boring backfilled with soil cuttings AFTER DRILLING ---

DEPTH (ft)	SYMBOL	SAMPLES	MATERIAL DESCRIPTION	FIELD TEST RESULTS (N-value)	% FINES	COHESION (ksf)	MOISTURE CONTENT %	DRY UNIT WT. (pcf)	PLASTICITY INDEX	△ SPT N VALUE △			
										20	40	60	80
0			Very stiff tan and light gray silty clay (CL)			98.6	10	20		●	○		
5			Medium dense tan and light gray clayey silt (ML)			6.15	16	115	6	●	○		
5			Very stiff tan and light gray silty clay (CL)		2.31	18	108			●	○		

Bottom of borehole at 6.0 feet.

**GE GILLEN ENGINEERING, LLC**  
Soil and Foundation Consultants  
Construction Materials Testing

**BORING NUMBER 21**  
PAGE 1 OF 1

CLIENT Richard C. Lambert Consultants, LLC PROJECT NAME LA Hwy 1077 Connector Road  
 PROJECT NUMBER 9502.01 PROJECT LOCATION Covington, Louisiana  
 DATE STARTED 7/19/17 COMPLETED 7/19/17 GROUND ELEVATION \_\_\_\_\_ HOLE SIZE 4 inches  
 DRILLING CONTRACTOR Triangle Resources, Inc. GROUND WATER LEVELS: \_\_\_\_\_  
 DRILLING METHOD Machine Auger AT TIME OF DRILLING ---  
 LOGGED BY C. Melerine CHECKED BY G. Gillen AT END OF DRILLING --- standing water around boring  
 NOTES Boring backfilled with soil cuttings AFTER DRILLING ---

DEPTH (ft)	SYMBOL	SAMPLES	MATERIAL DESCRIPTION	FIELD TEST RESULTS (N-value)	% FINES	COHESION (ksf)	MOISTURE CONTENT %	DRY UNIT WT. (pcf)	PLASTICITY INDEX	△ SPT N VALUE △			
										20	40	60	80
0			Very stiff tan silty clay (CL)			3.22	21	101	25	●	○		
5			Very stiff tan and light gray clay (CH)		96.4	2.42	18	108	37	●	○		
5					3.77	21	106			●	○		

Bottom of borehole at 6.0 feet.

**GE GILLEN ENGINEERING, LLC**  
Soil and Foundation Consultants  
Construction Materials Testing

**BORING NUMBER 24**  
PAGE 1 OF 1

CLIENT Richard C. Lambert Consultants, LLC PROJECT NAME LA Hwy 1077 Connector Road  
 PROJECT NUMBER 9502.01 PROJECT LOCATION Covington, Louisiana  
 DATE STARTED 7/19/17 COMPLETED 7/19/17 GROUND ELEVATION \_\_\_\_\_ HOLE SIZE 4 inches  
 DRILLING CONTRACTOR Triangle Resources, Inc. GROUND WATER LEVELS: \_\_\_\_\_  
 DRILLING METHOD Machine Auger AT TIME OF DRILLING ---  
 LOGGED BY C. Melerine CHECKED BY G. Gillen AT END OF DRILLING --- no free water  
 NOTES Boring backfilled with soil cuttings AFTER DRILLING ---

DEPTH (ft)	SYMBOL	SAMPLES	MATERIAL DESCRIPTION	FIELD TEST RESULTS (N-value)	% FINES	COHESION (ksf)	MOISTURE CONTENT %	DRY UNIT WT. (pcf)	PLASTICITY INDEX	△ SPT N VALUE △			
										20	40	60	80
0			Stiff tan and light gray silty clay (CL)			94.8	1.05	25	96	17	●	○	
5			Very stiff tan and light gray clay (CH)			1.18	23	101	25	●	○		
5					3.04	19	108	44		●	○		

Bottom of borehole at 6.0 feet.



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DESIGNED	ATL
CHECKED	FJZ
DETAILED	LBW
CHECKED	FJZ
DATE	04/29/21
SHEET	52

NO.	DATE	BY	REVISION DESCRIPTION

**SOIL BORINGS**  
LA 1077/LA 21 CONNECTOR ROAD

Project Number:  
RCLC No: 714-08

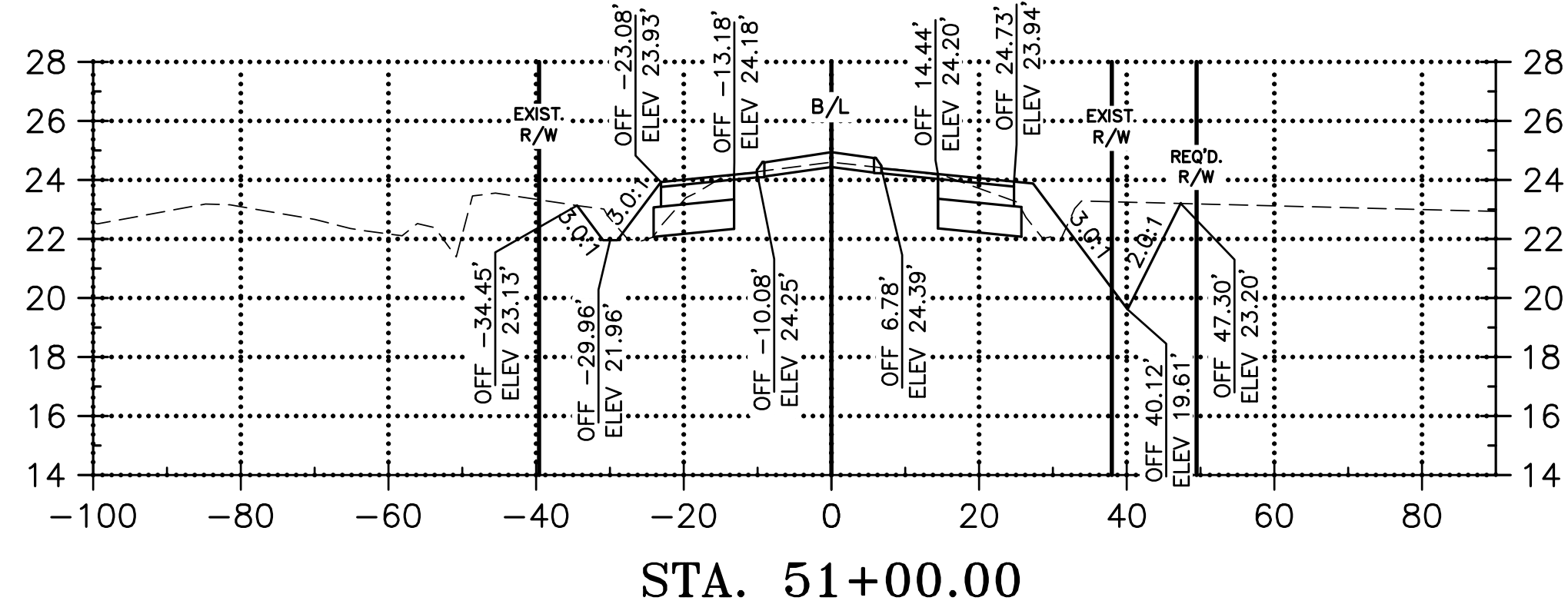


04/29/2021

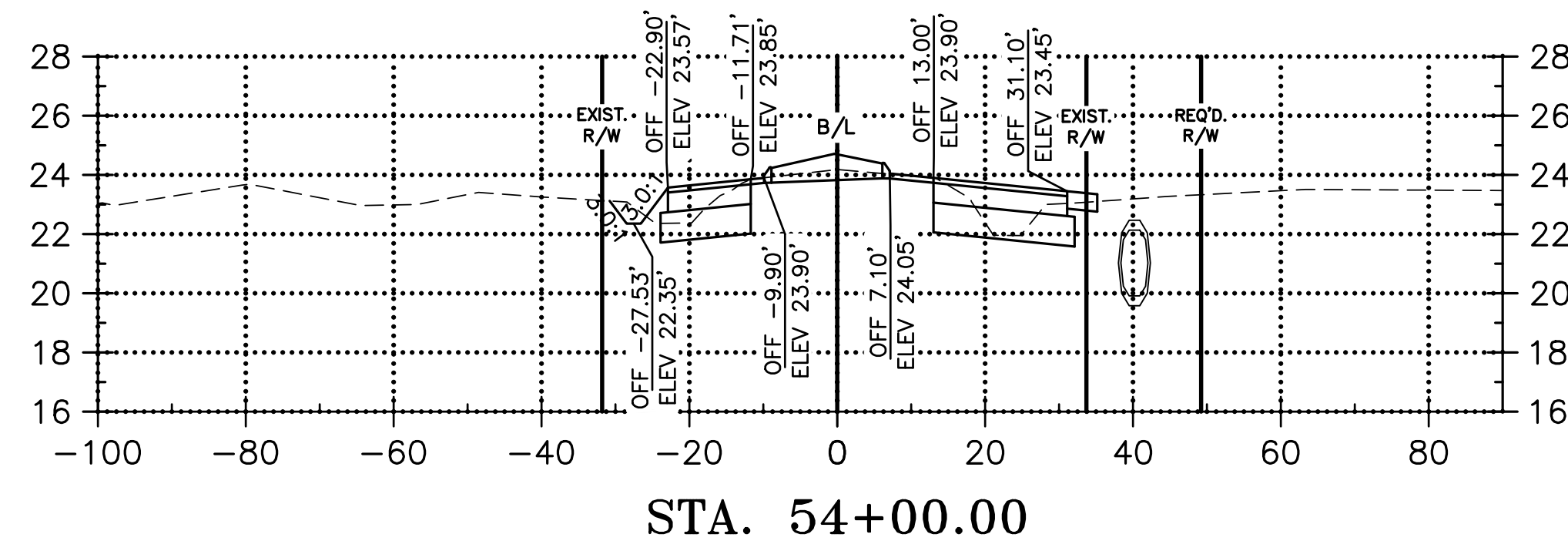
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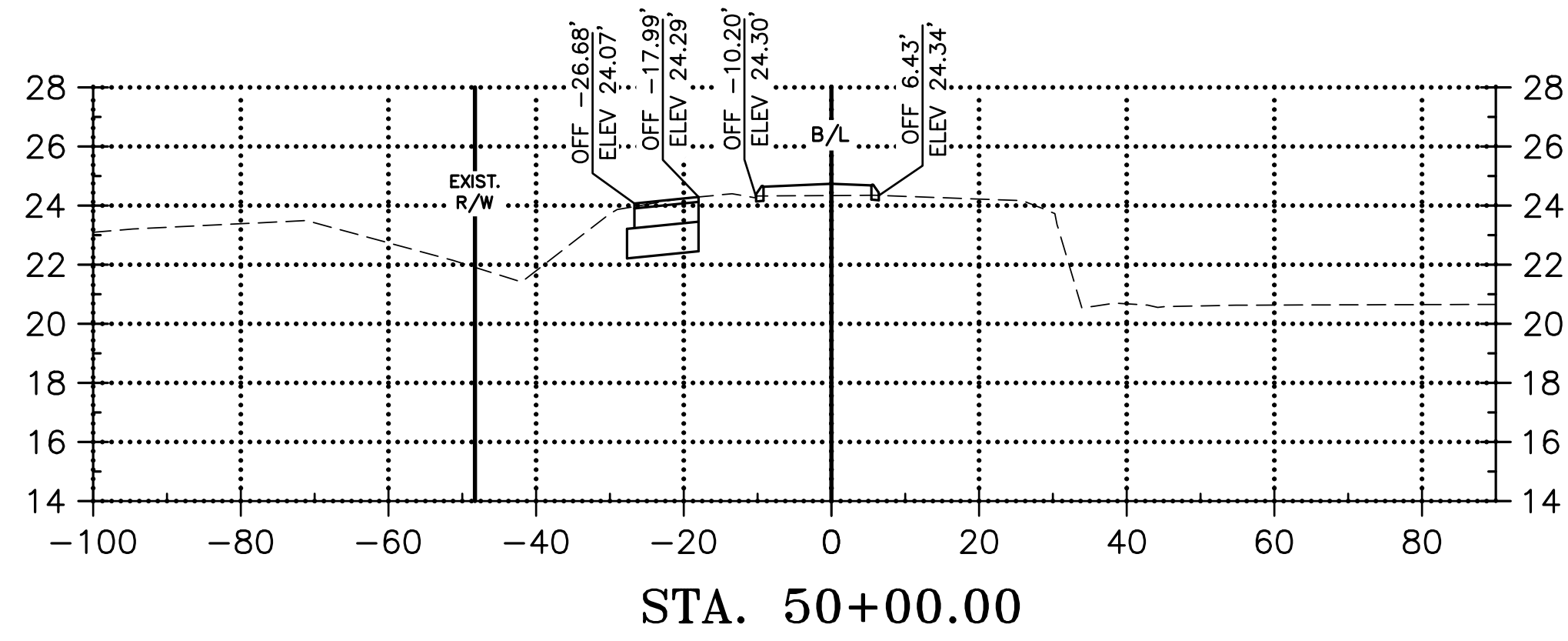
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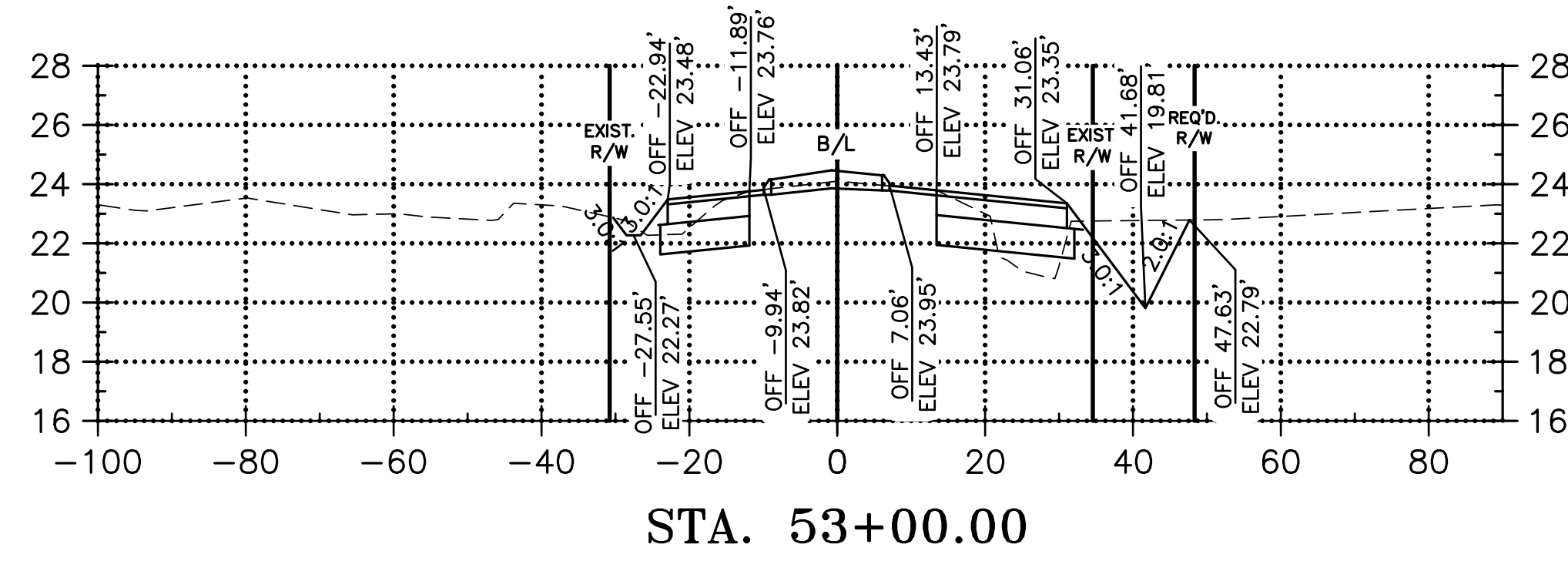
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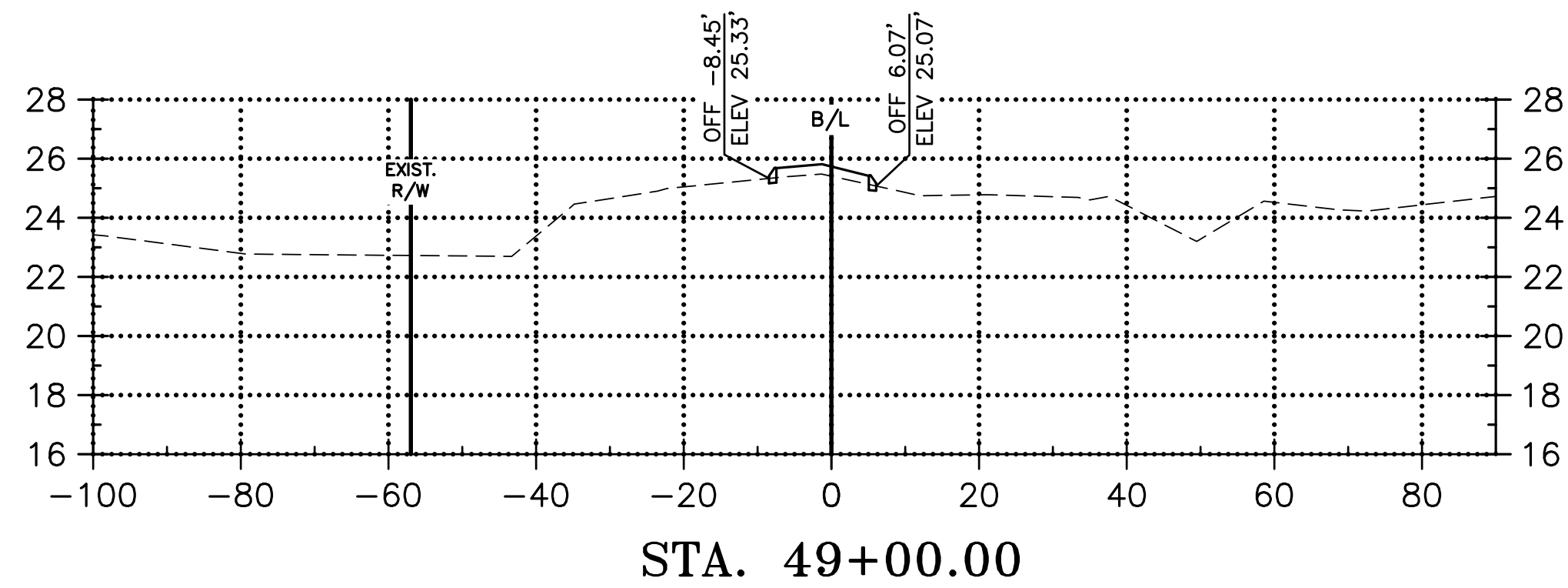
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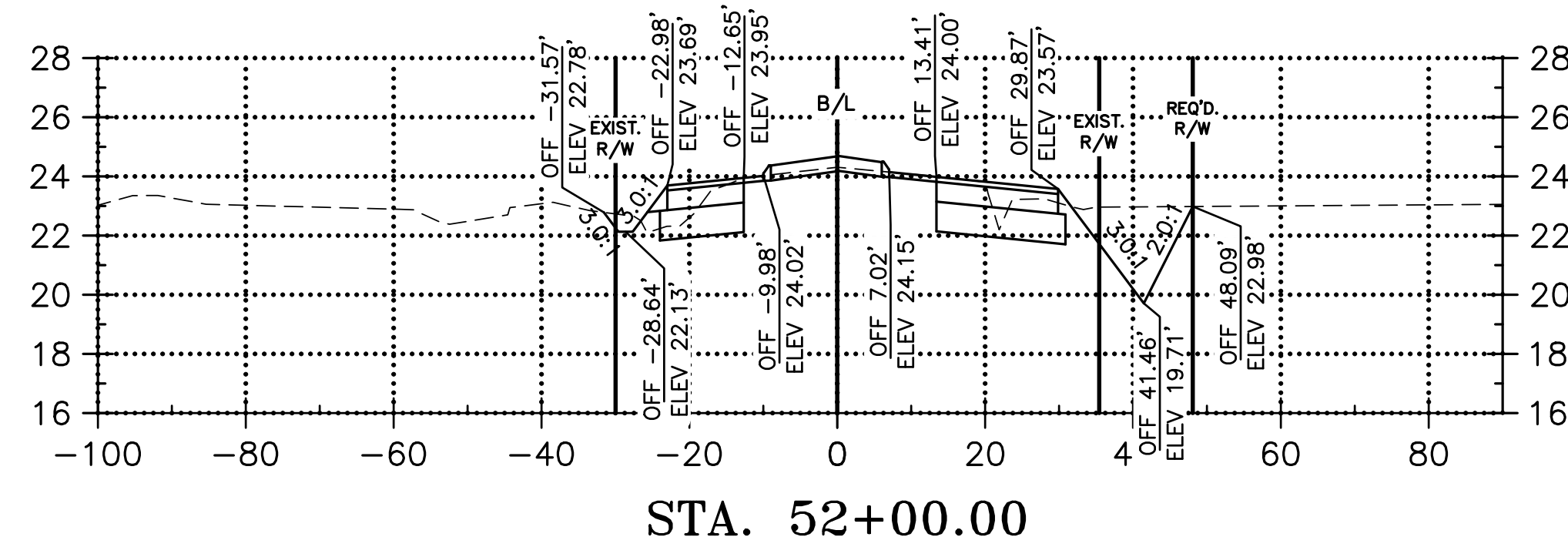
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FILL: 0.00 C.Y.



CUT: 247.68 C.Y.  
FILL: 18.38 C.Y.



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DESIGNED	ATL
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CHECKED	FJZ
DATE	04/29/21
SHEET	401

NO.	DATE	REVISION DESCRIPTION	BY

# LA 1077 CROSS SECTIONS

Project Number:  
RCLC No: 714-08



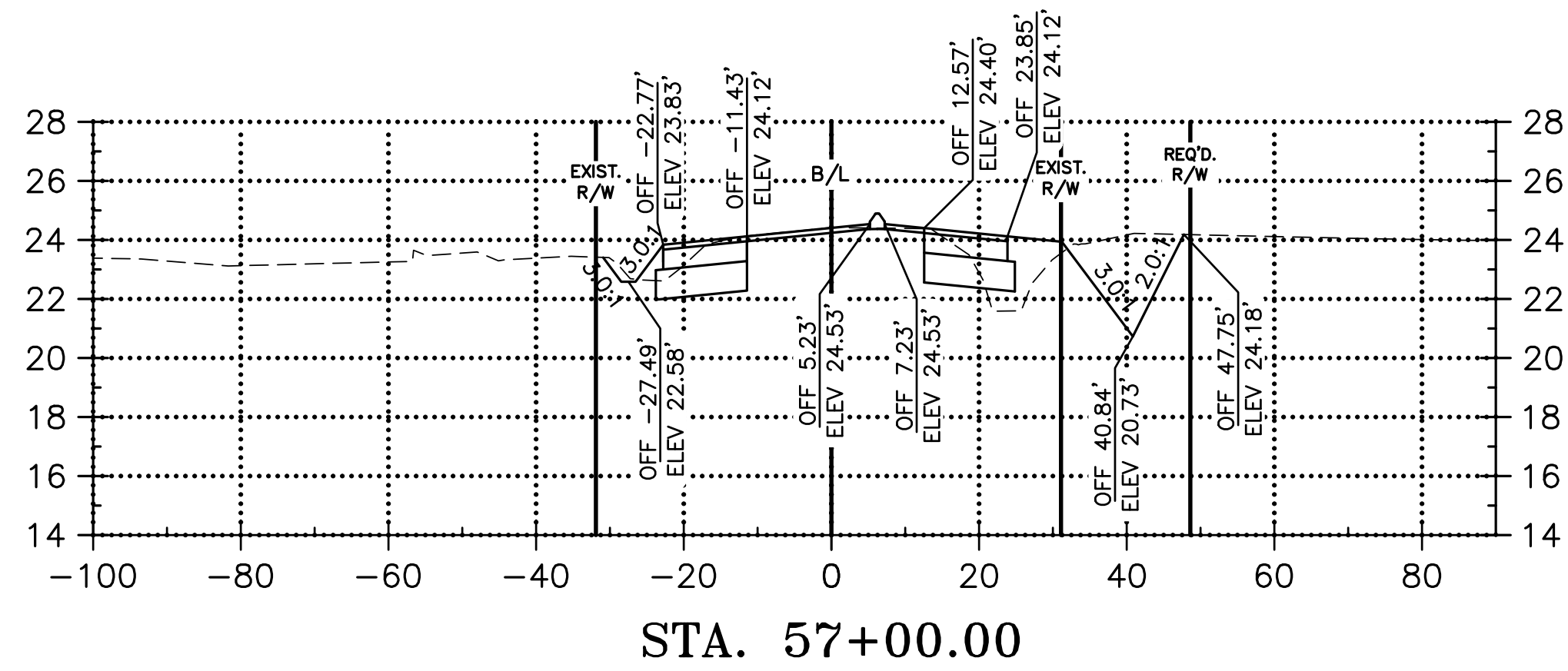
04/29/2021

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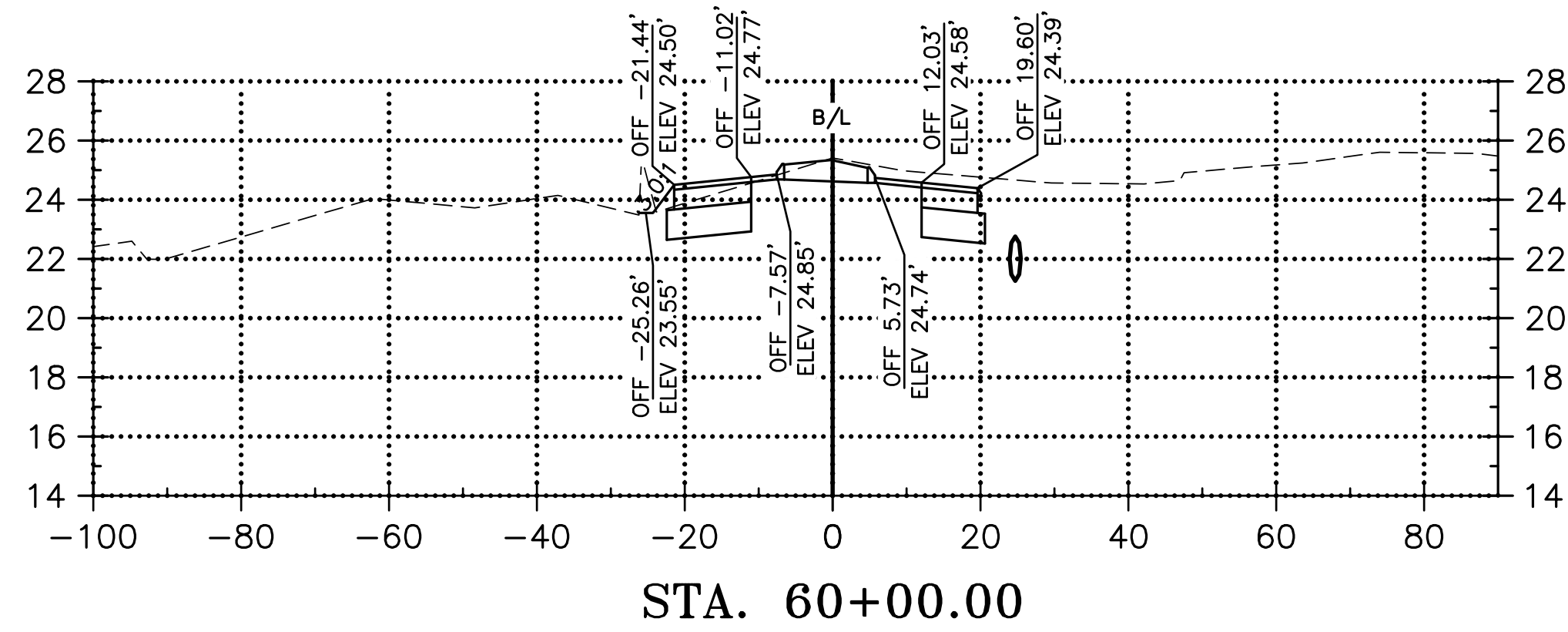
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Fax: 985-727-4447

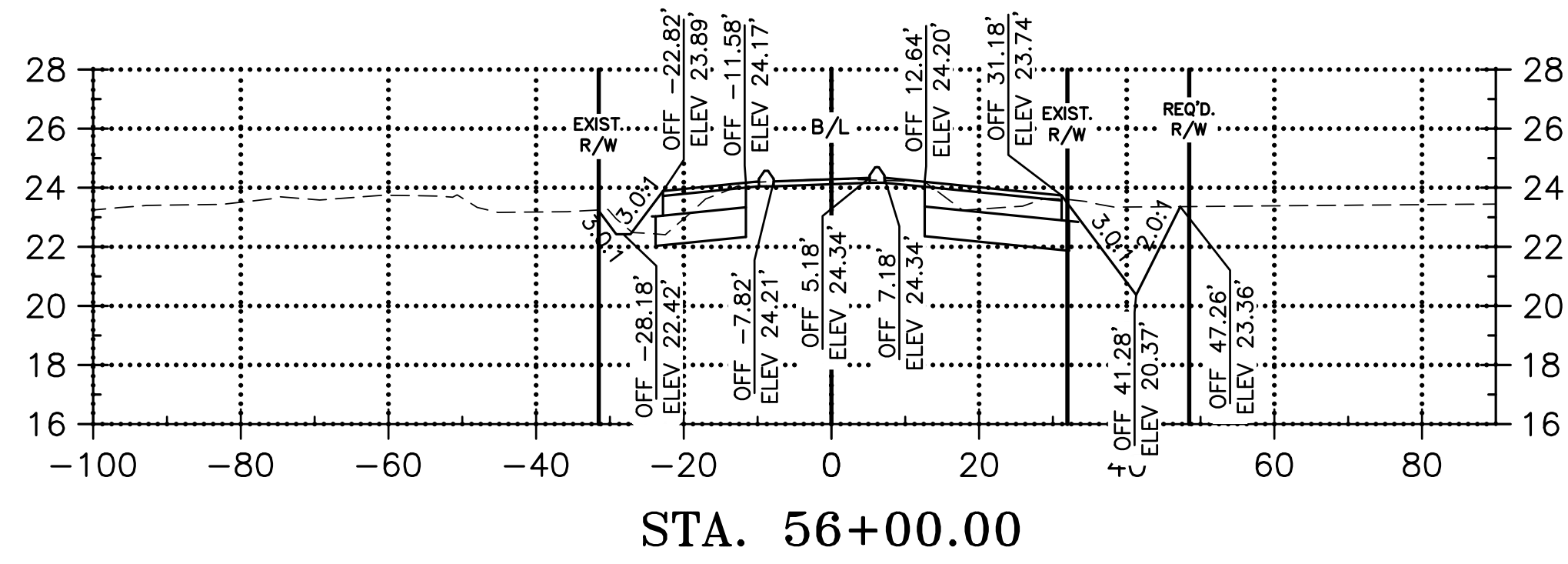
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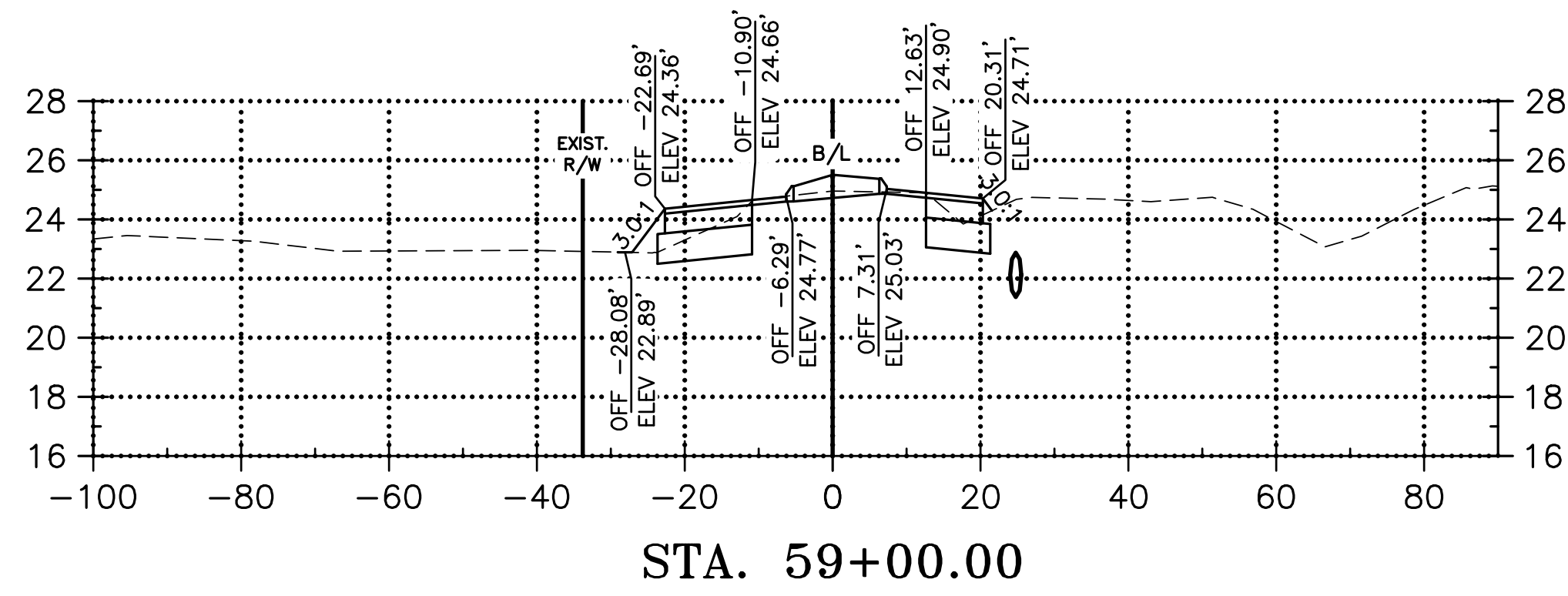
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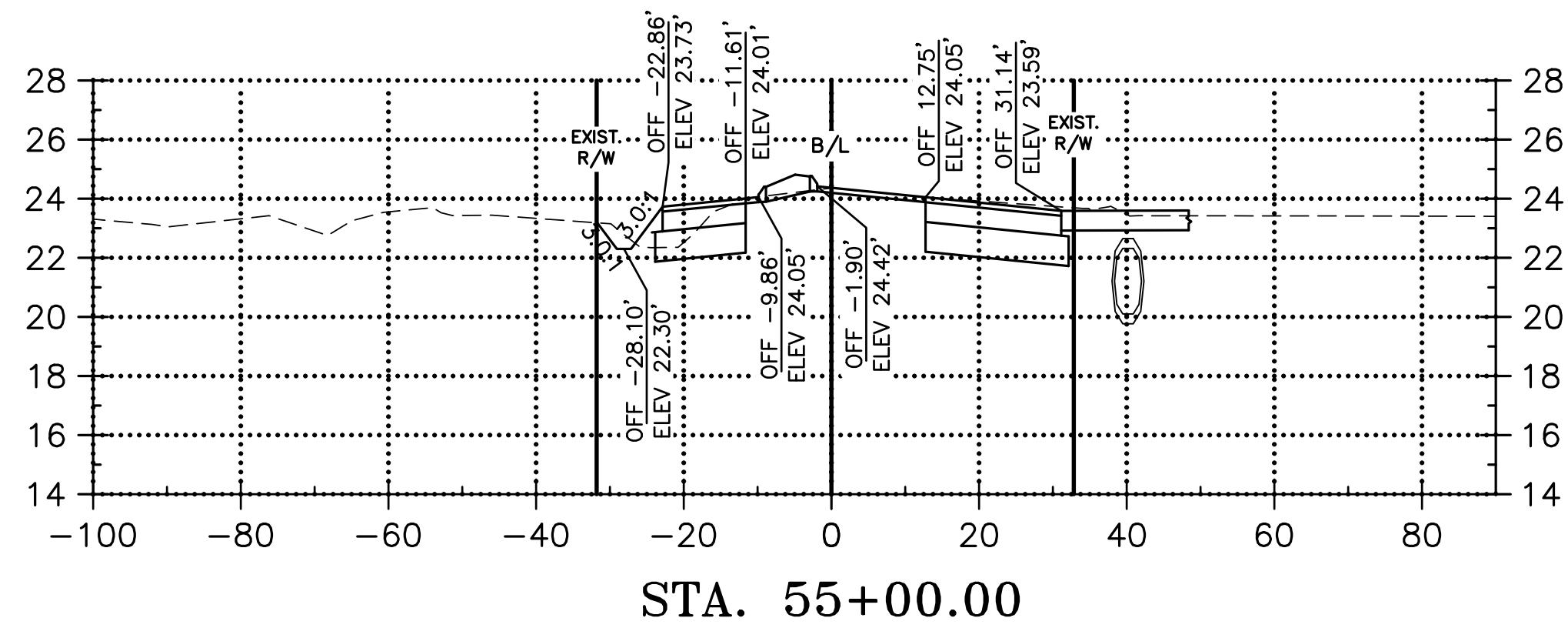
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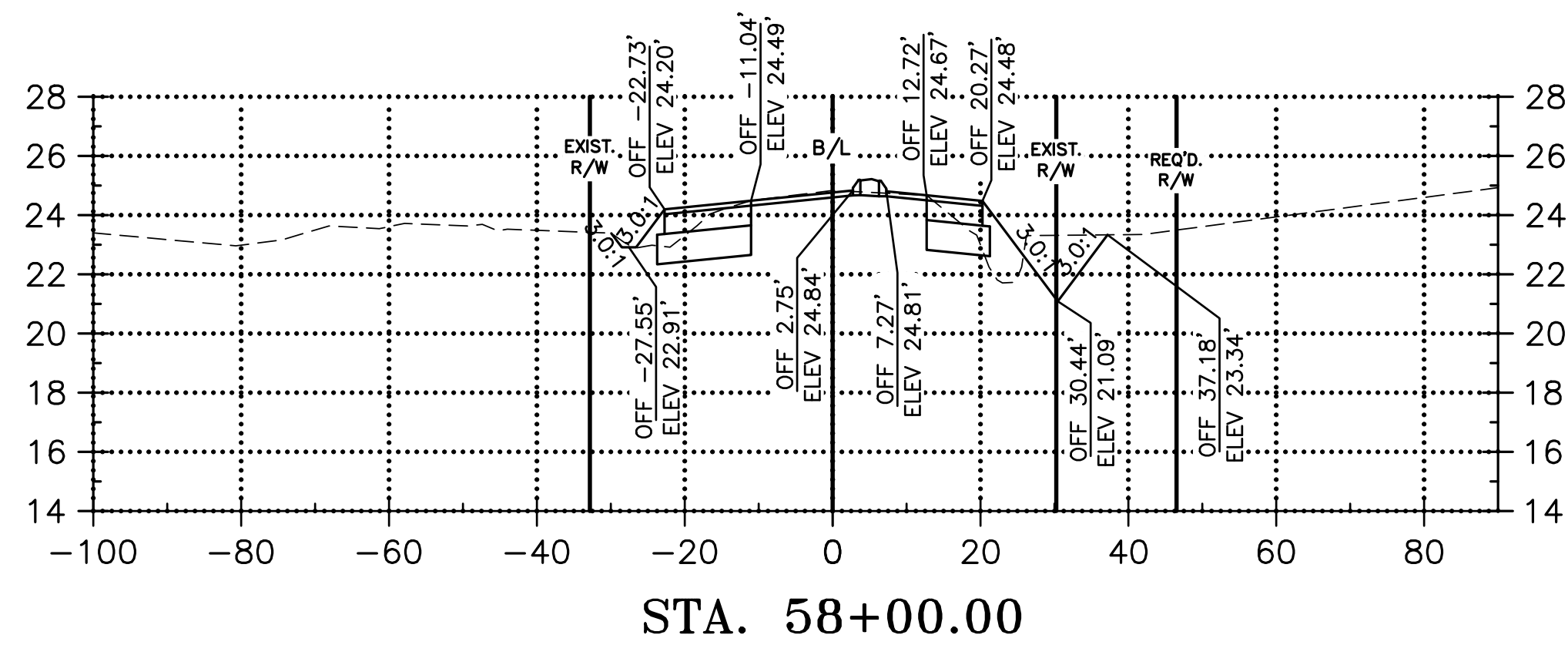
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CUT: 184.58 C.Y.  
FILL: 32.13 C.Y.



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DESIGNED	ATL
CHECKED	FJZ
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CHECKED	FJZ
DATE	04/29/21
SHEET	402

NO.	DATE	REVISION DESCRIPTION	BY

# LA 1077 CROSS SECTIONS

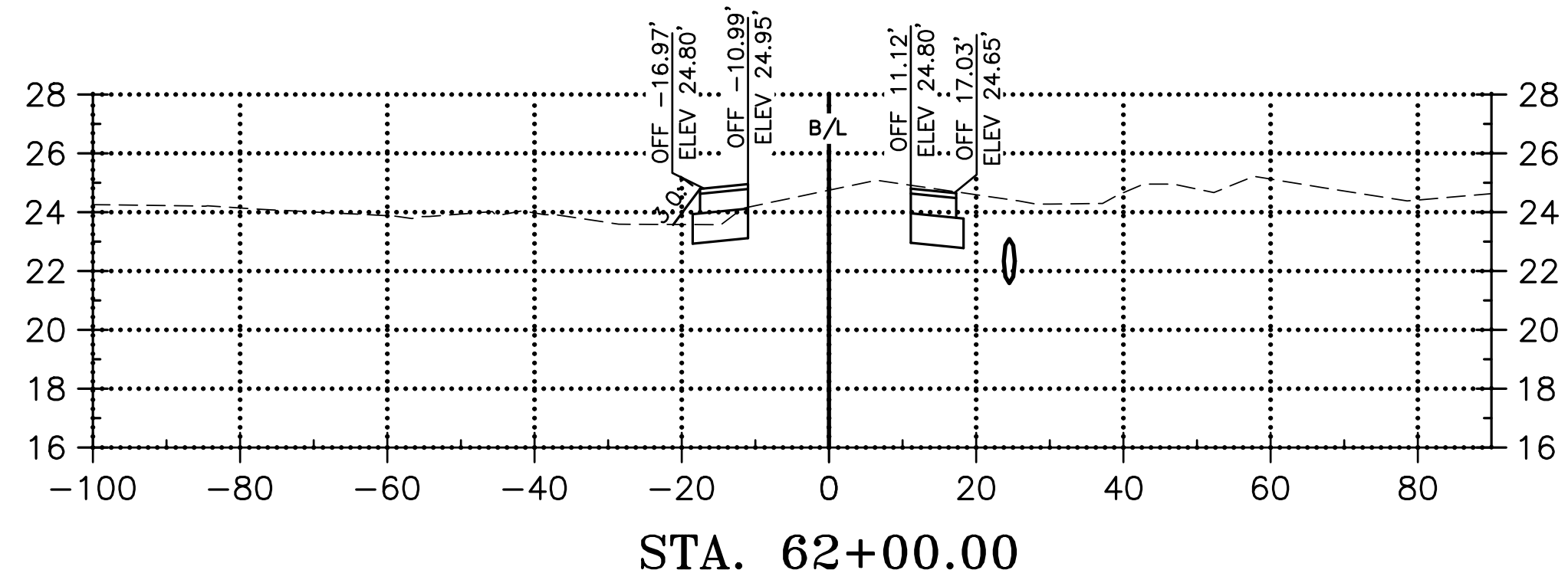
LA 1077/LA 21 CONNECTOR ROAD

Project Number:  
RCLC No: 714-08

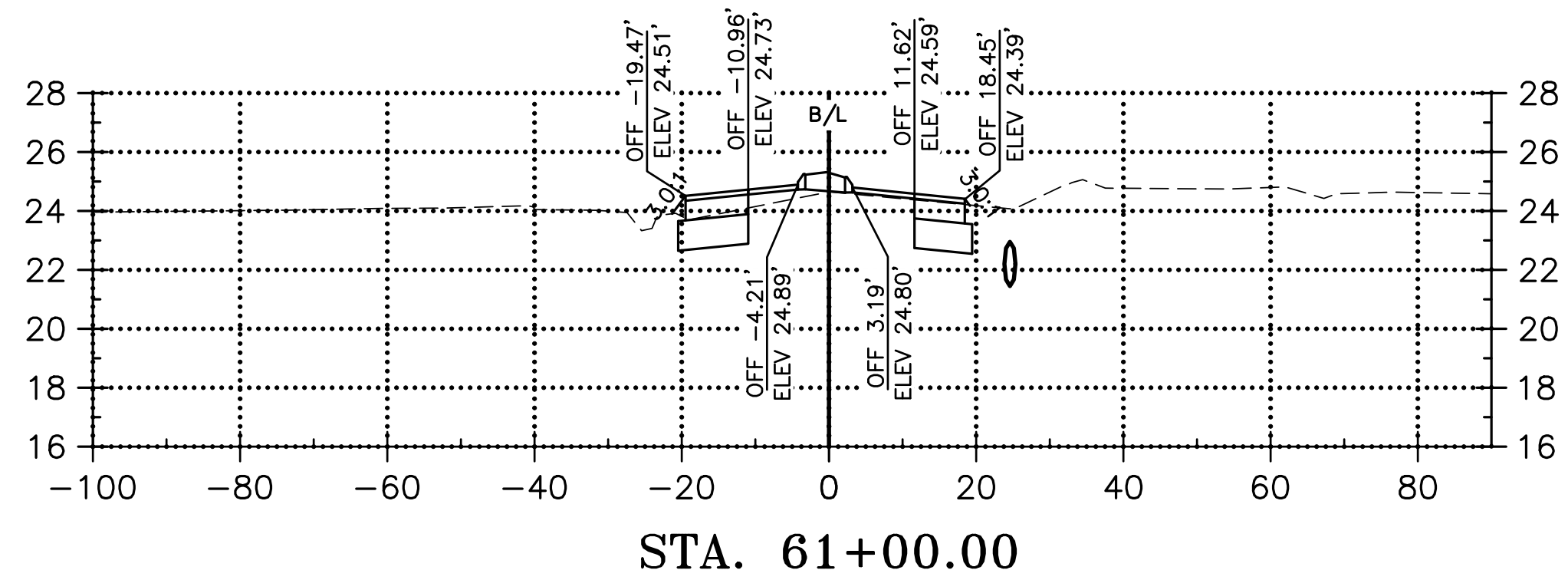


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Sheet Number:

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FILL: 4.13 C.Y.



CUT: 83.18 C.Y.  
FILL: 2.93 C.Y.



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Mandeville, LA 70471  
985-727-4440  
985-727-4447

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CHECKED	FJZ
DETAILED	LBW
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DATE	04/29/21
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NO.	DATE	REVISION DESCRIPTION	BY

**LA 1077 CROSS SECTIONS**  
LA 1077/LA 21 CONNECTOR ROAD

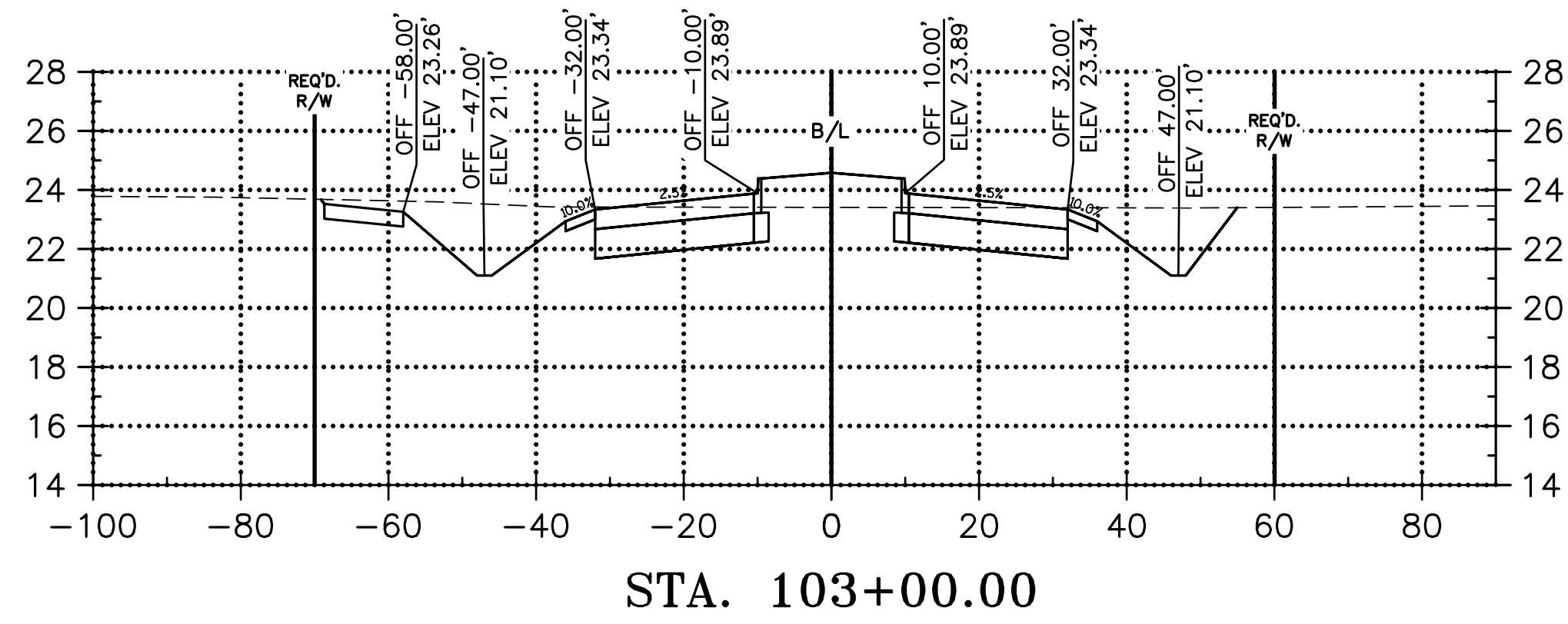
Project Number:  
RCLC No: 714-08



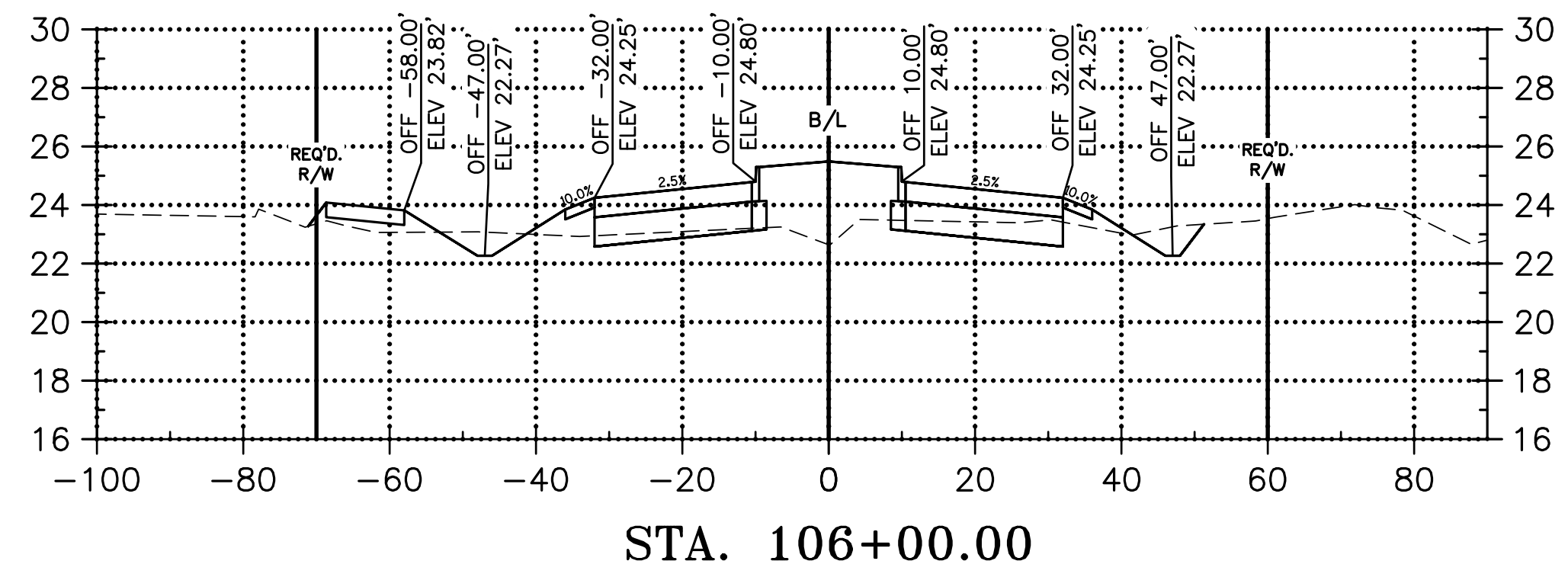
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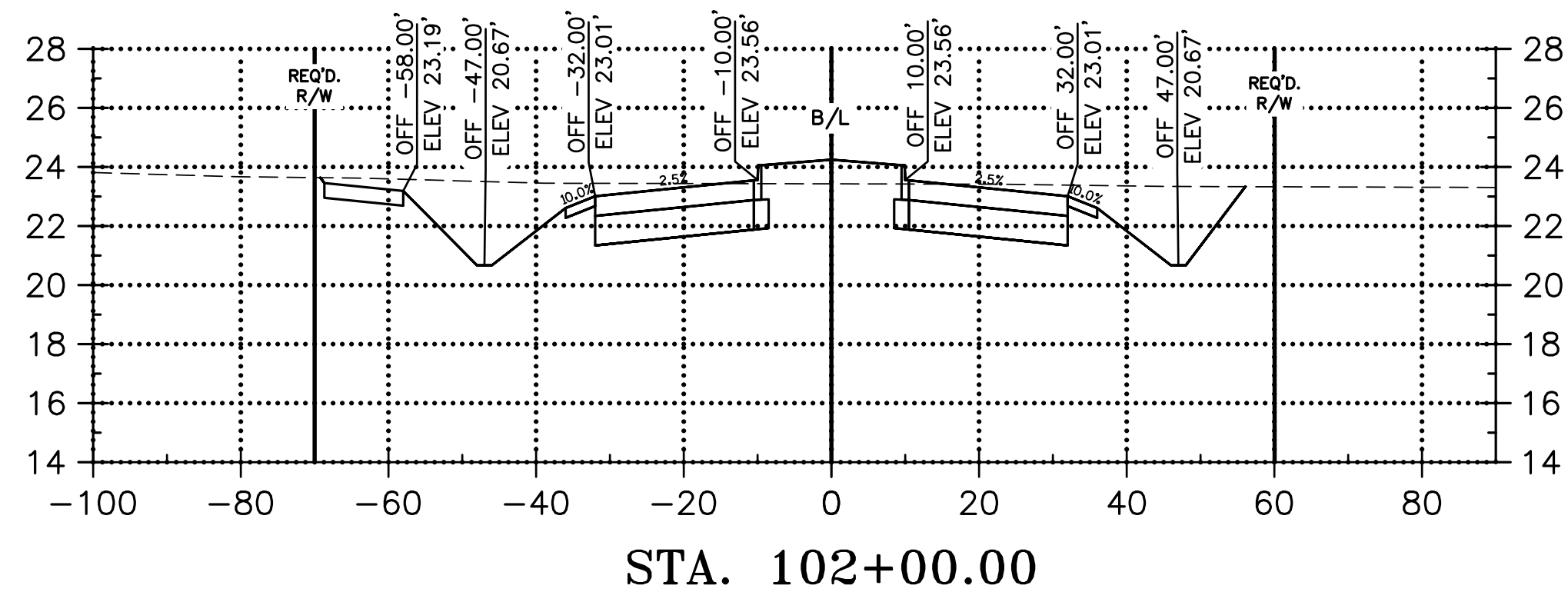
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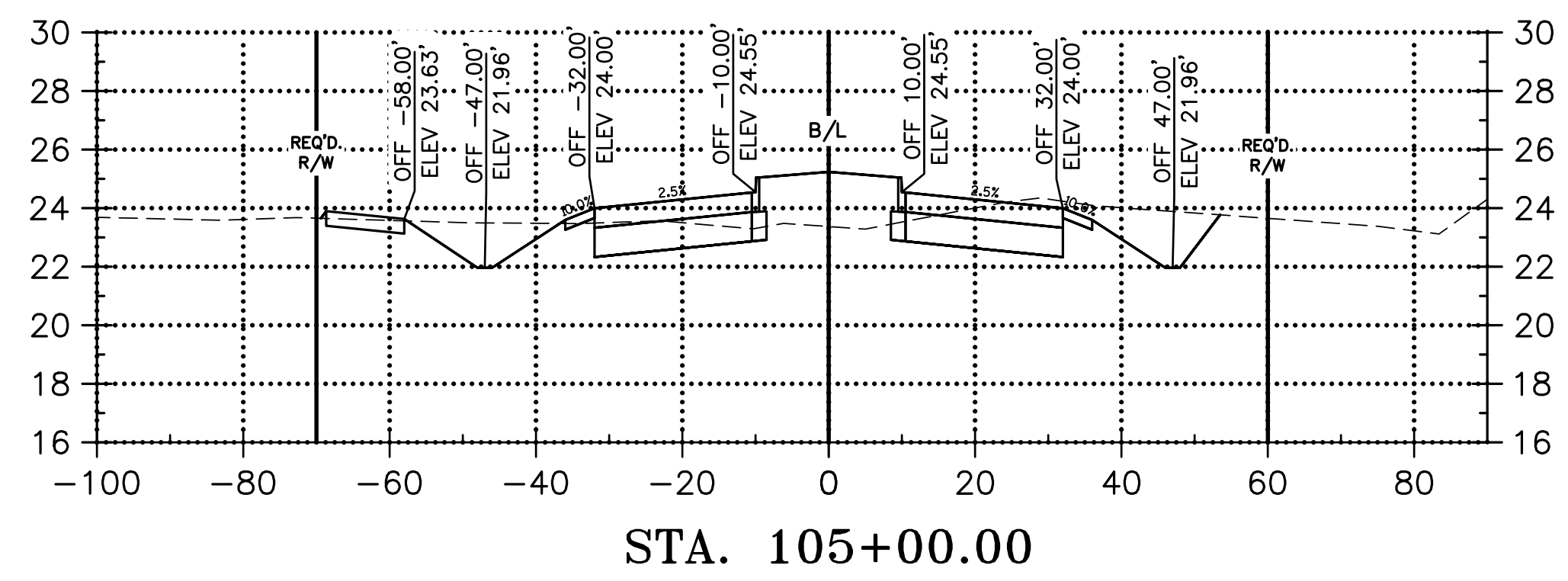
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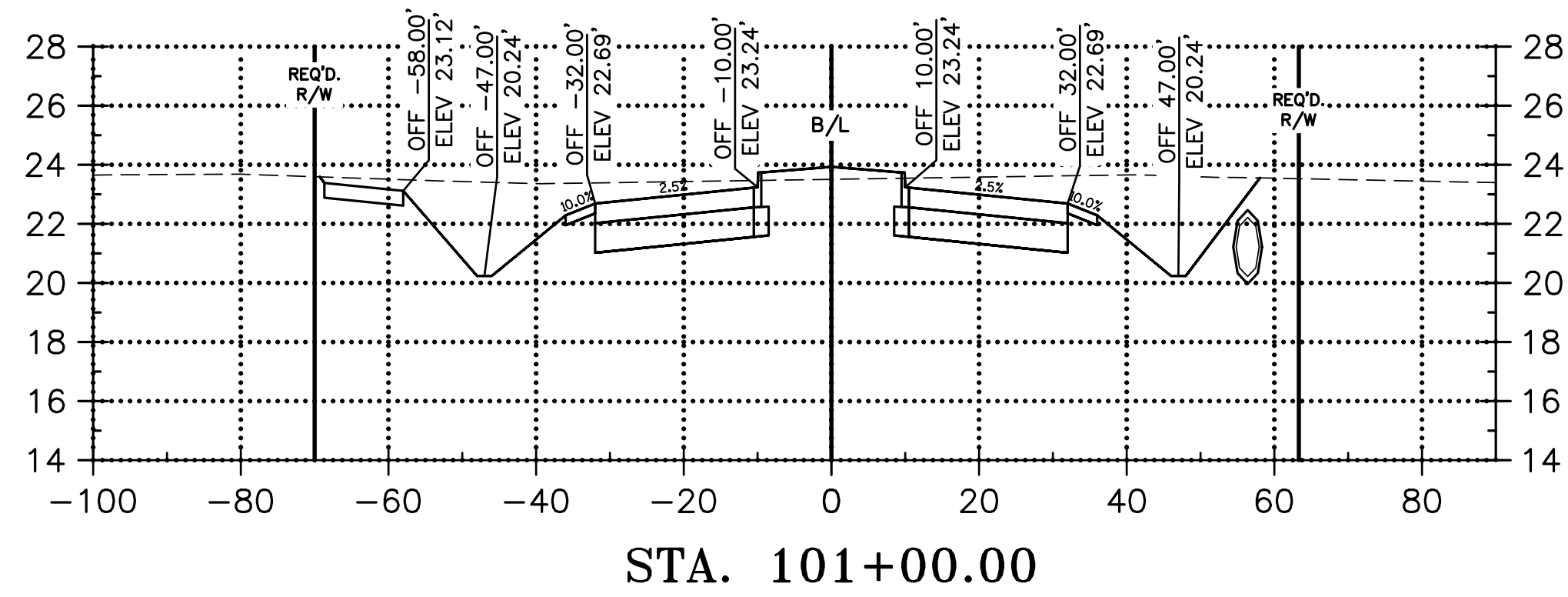
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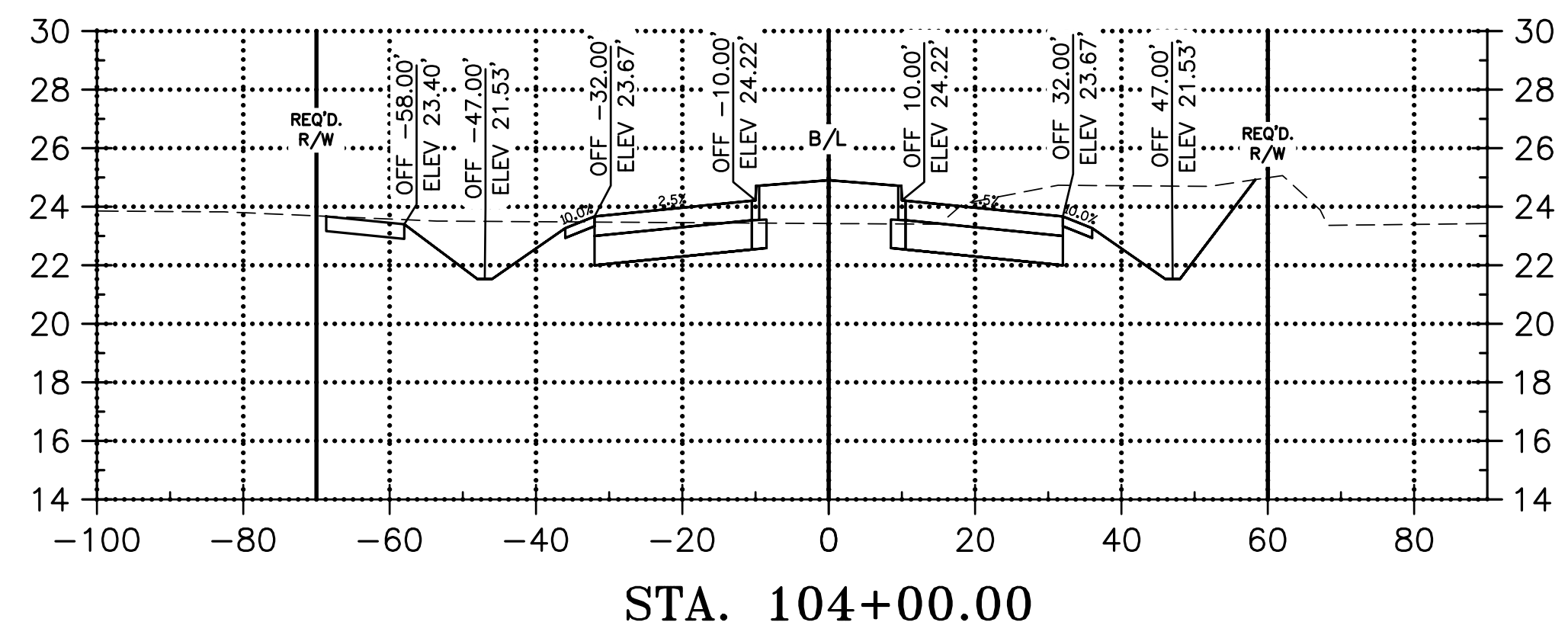
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FILL: 155.65 C.Y.



CUT: 720.0 C.Y.  
FILL: 38.5 C.Y.



CUT: 463.47 C.Y.  
FILL: 108.75 C.Y.



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NO.	DATE	REVISION DESCRIPTION	BY

# CONNECTOR ROAD CROSS SECTIONS

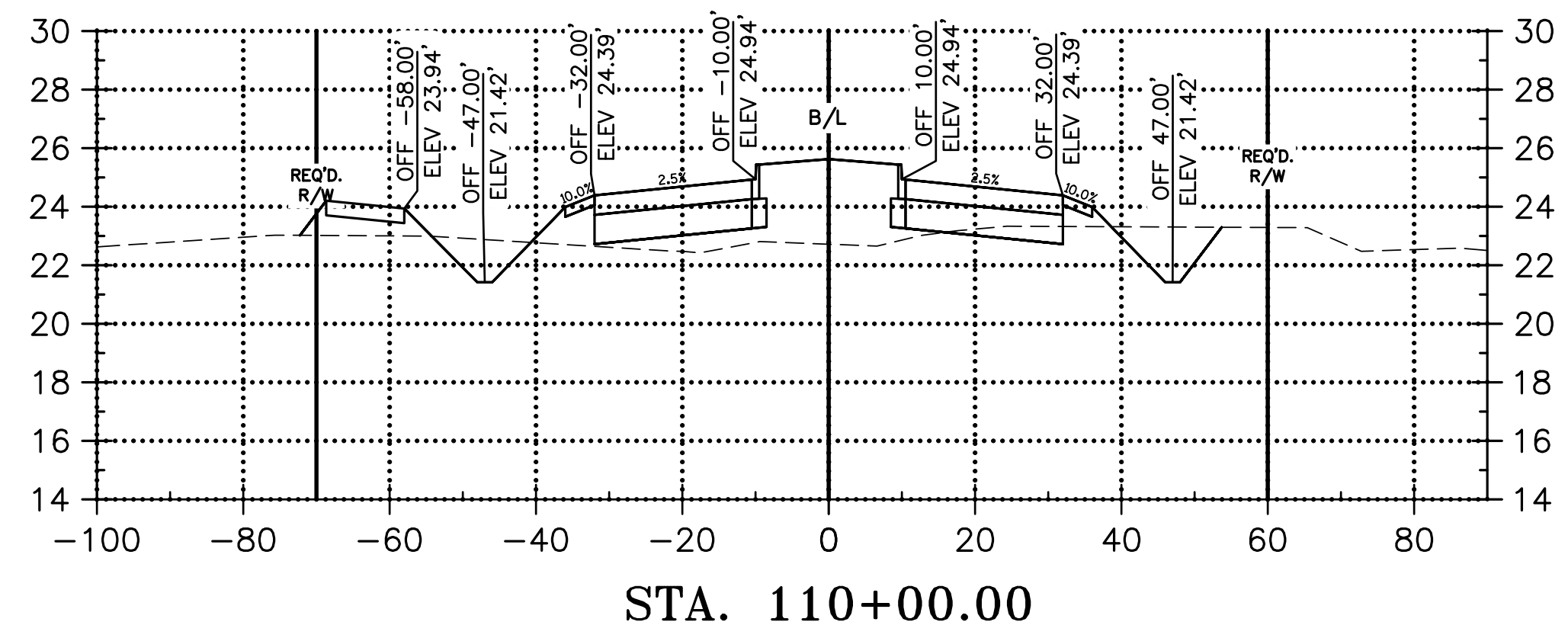
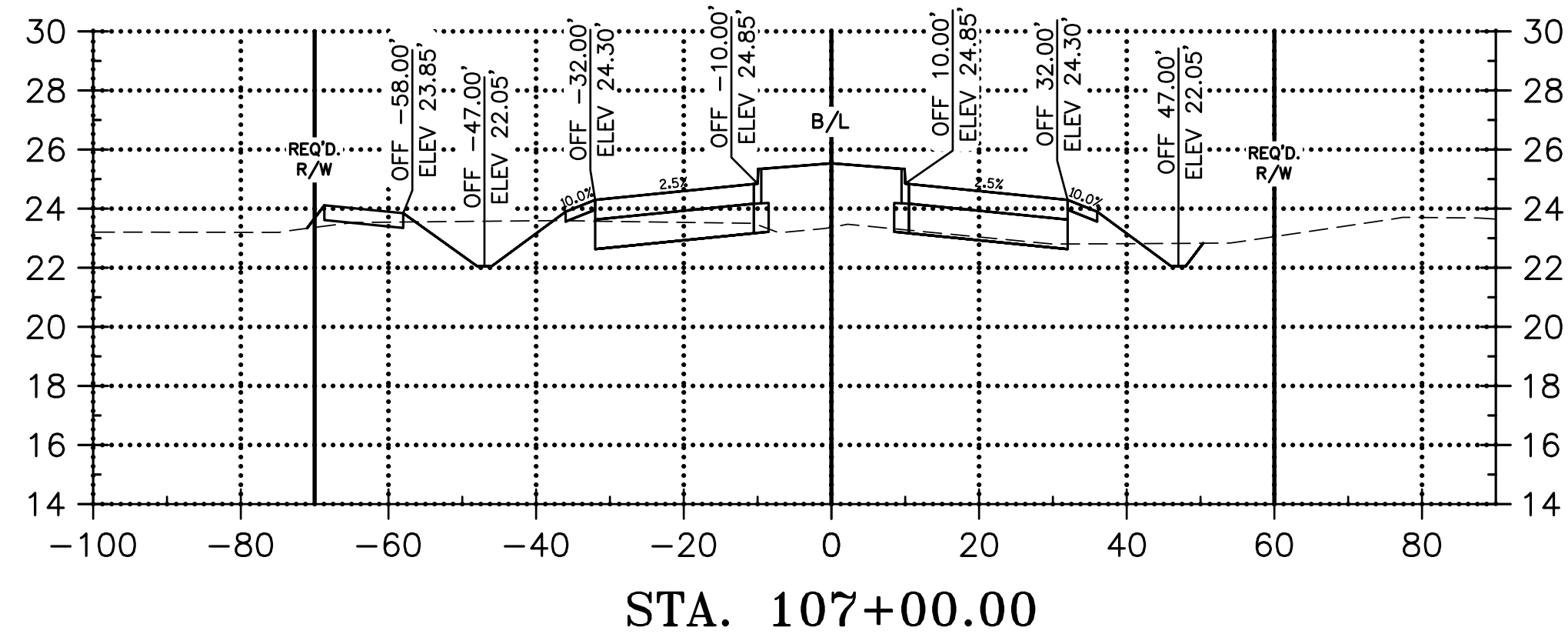
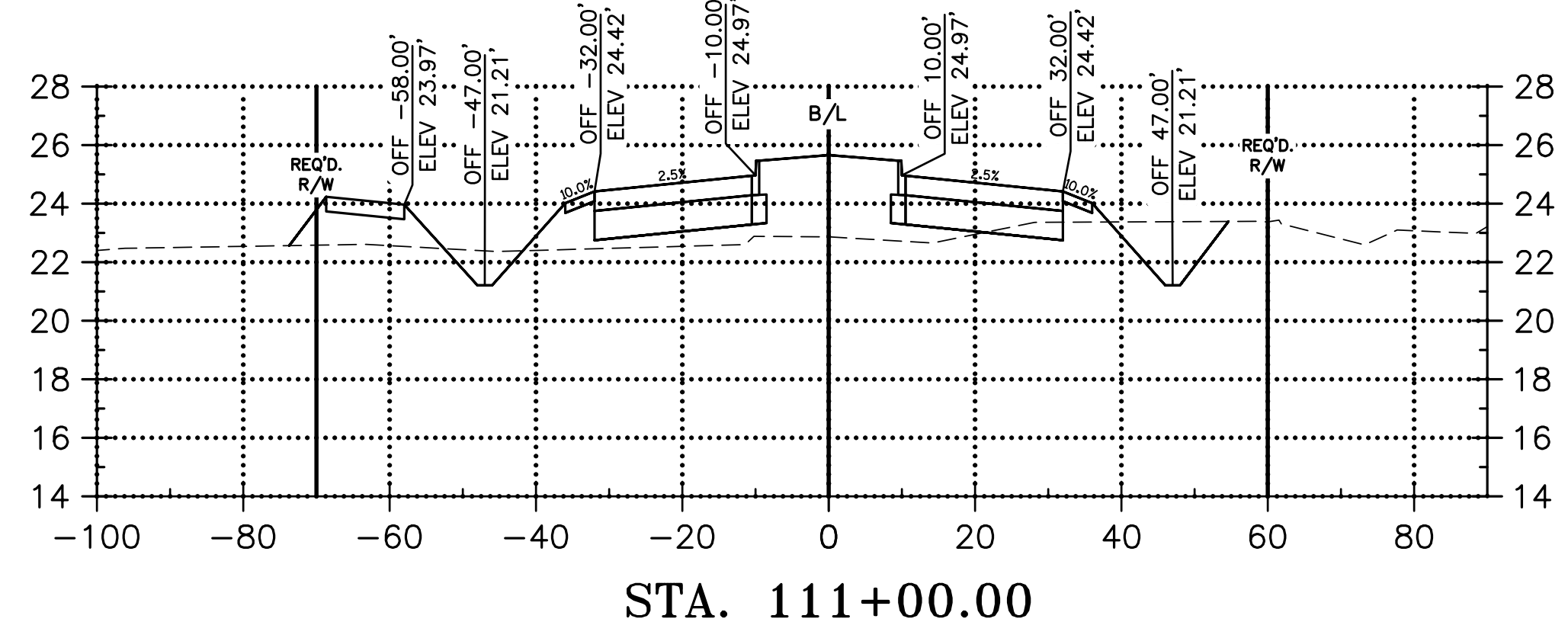
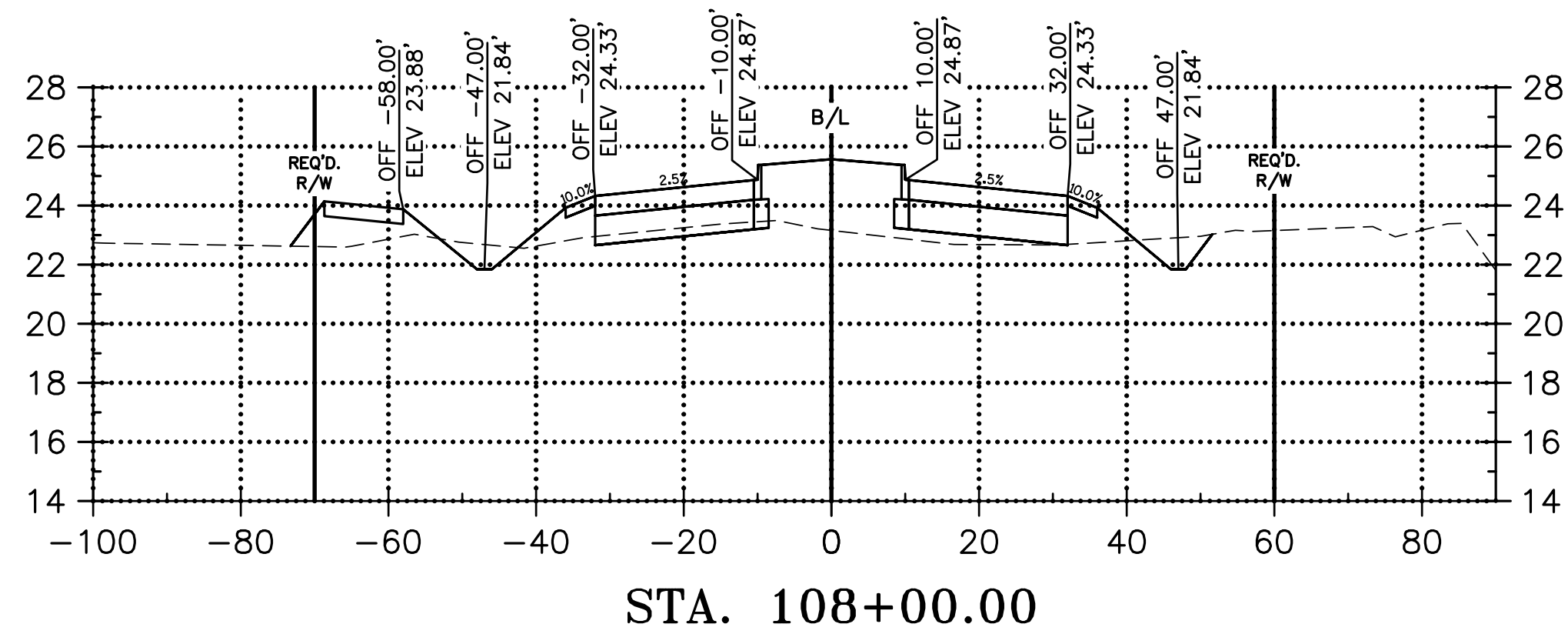
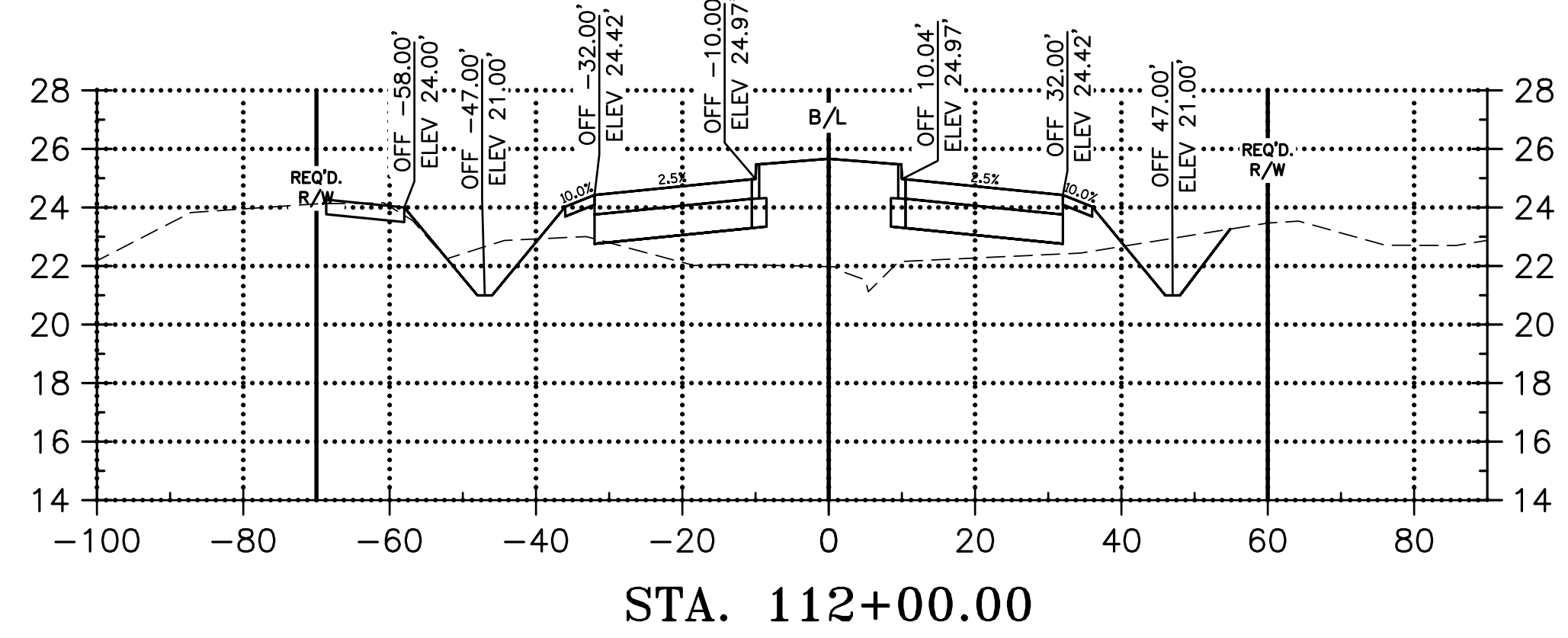
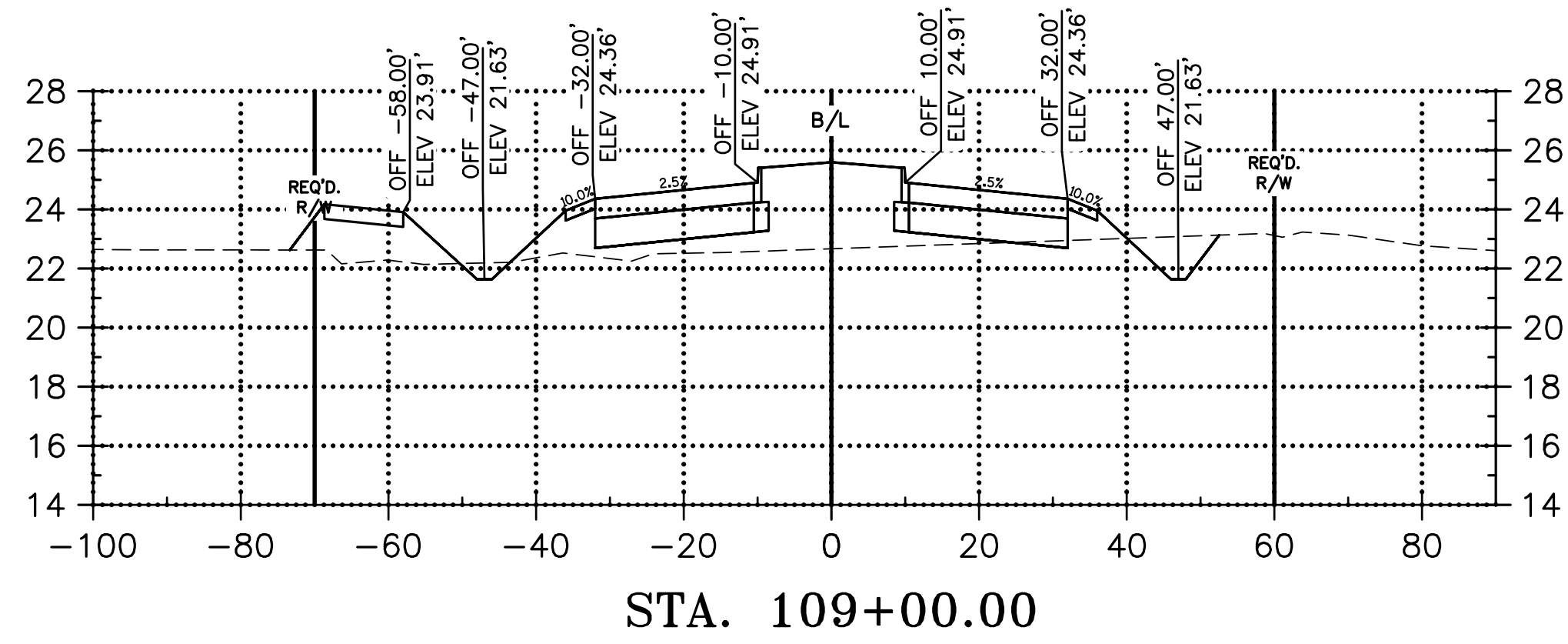
LA 1077/LA 21 CONNECTOR ROAD

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RCLC No: 714-08



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DESIGNED	ATL	NO.	405
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**CONNECTOR ROAD  
CROSS SECTIONS**  
LA 1077/LA 21 CONNECTOR ROAD

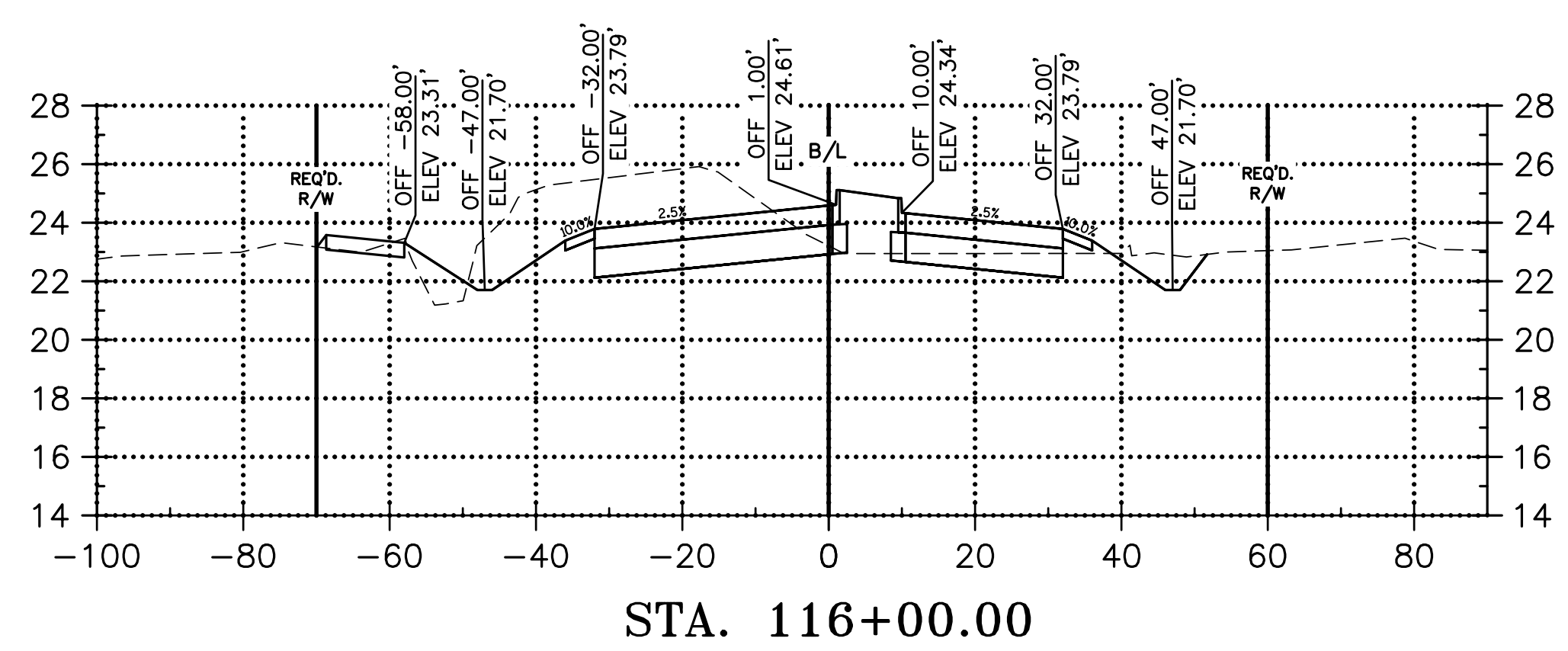
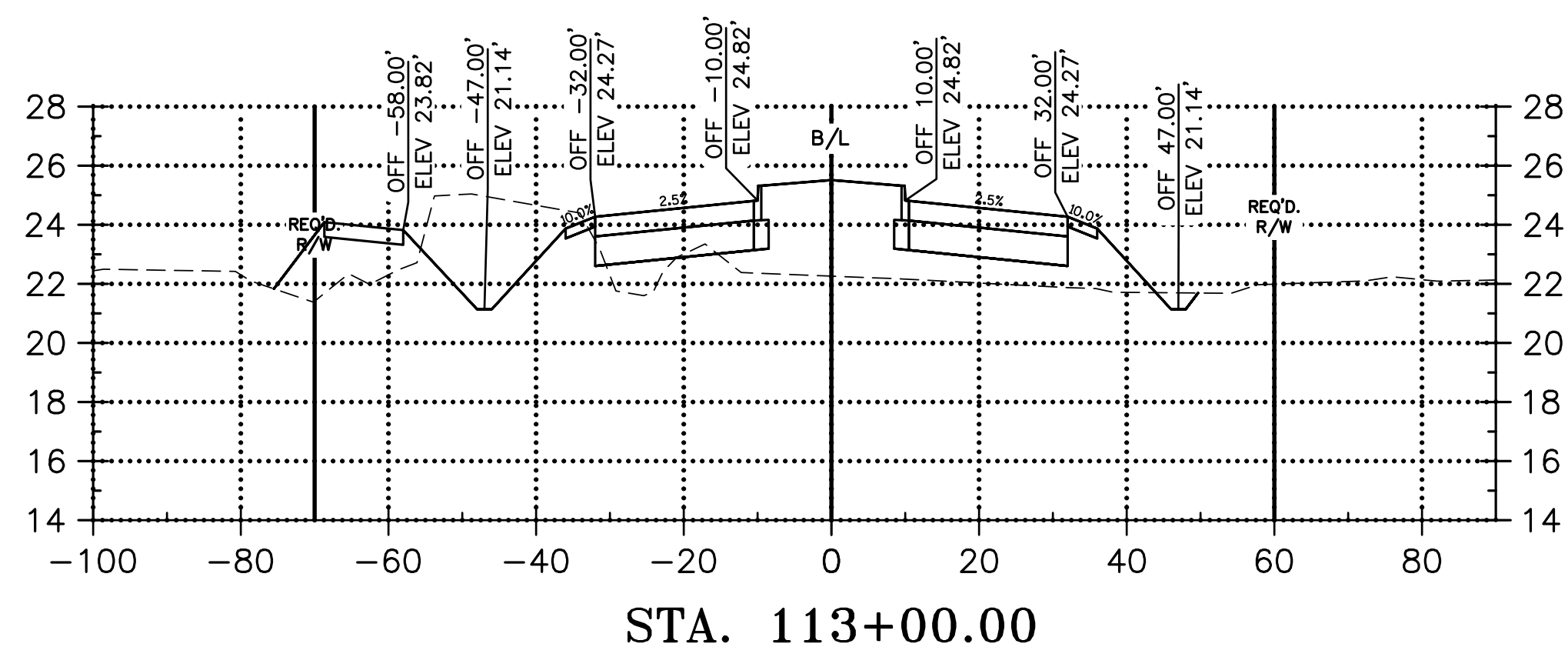
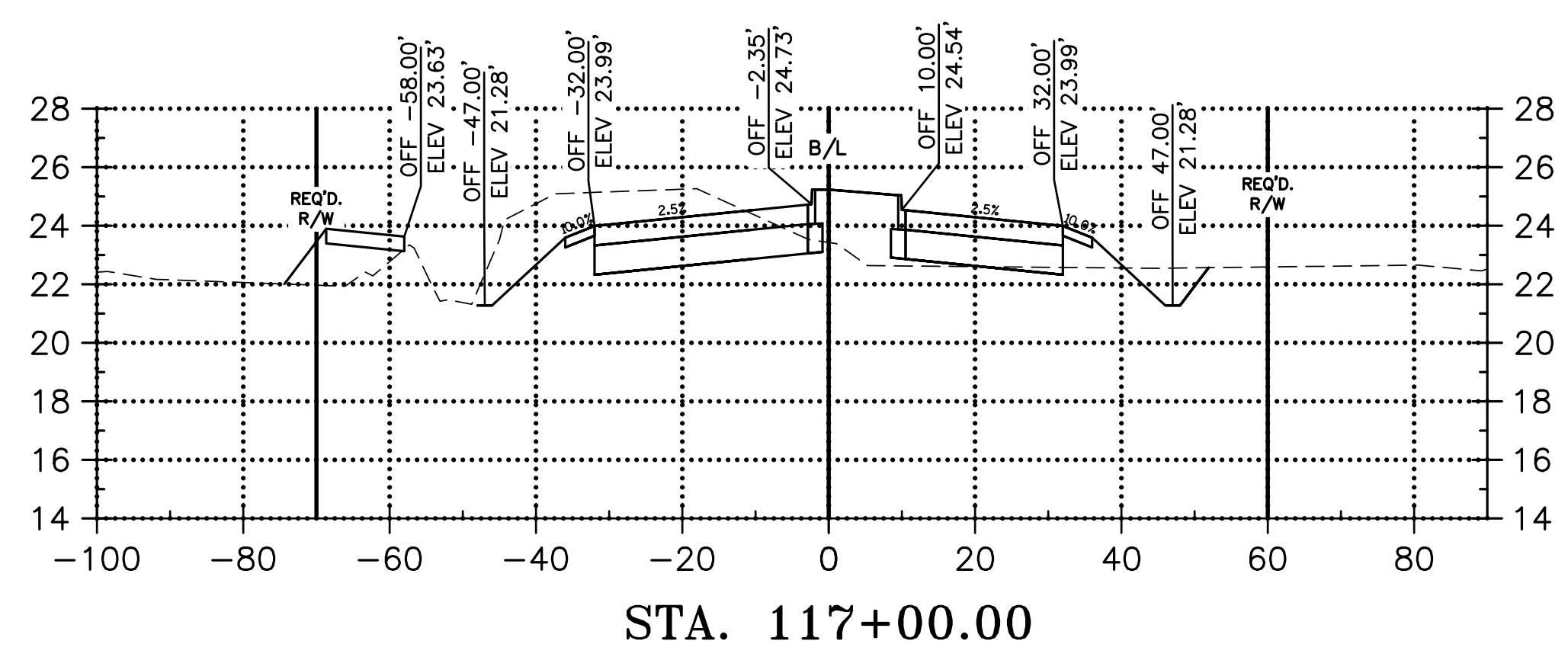
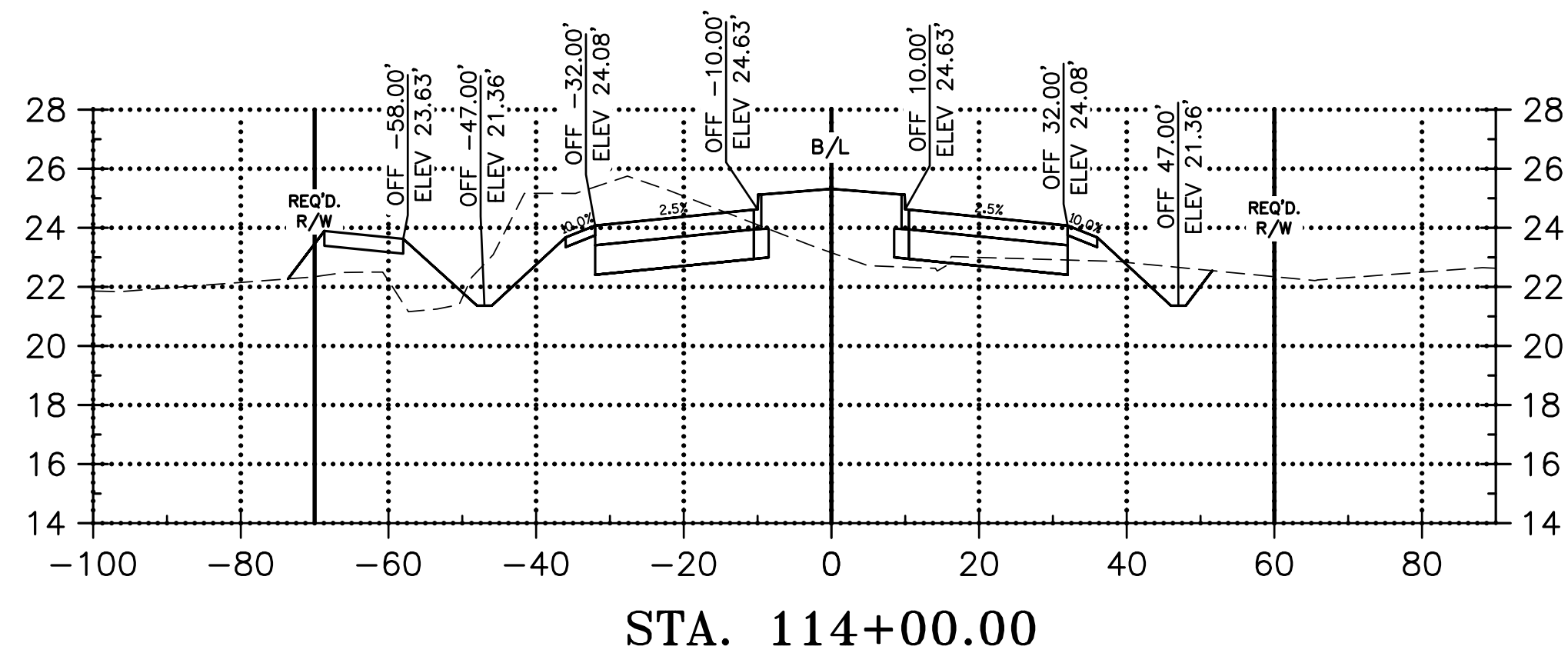
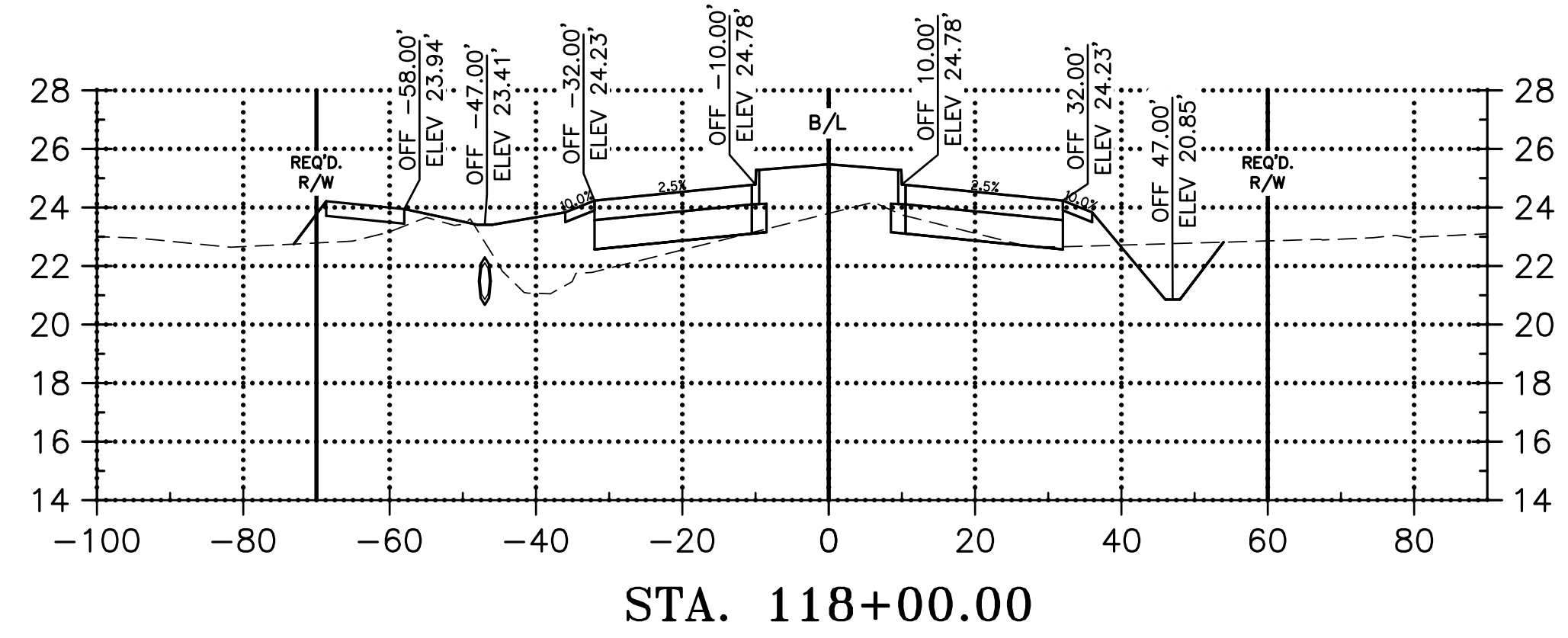
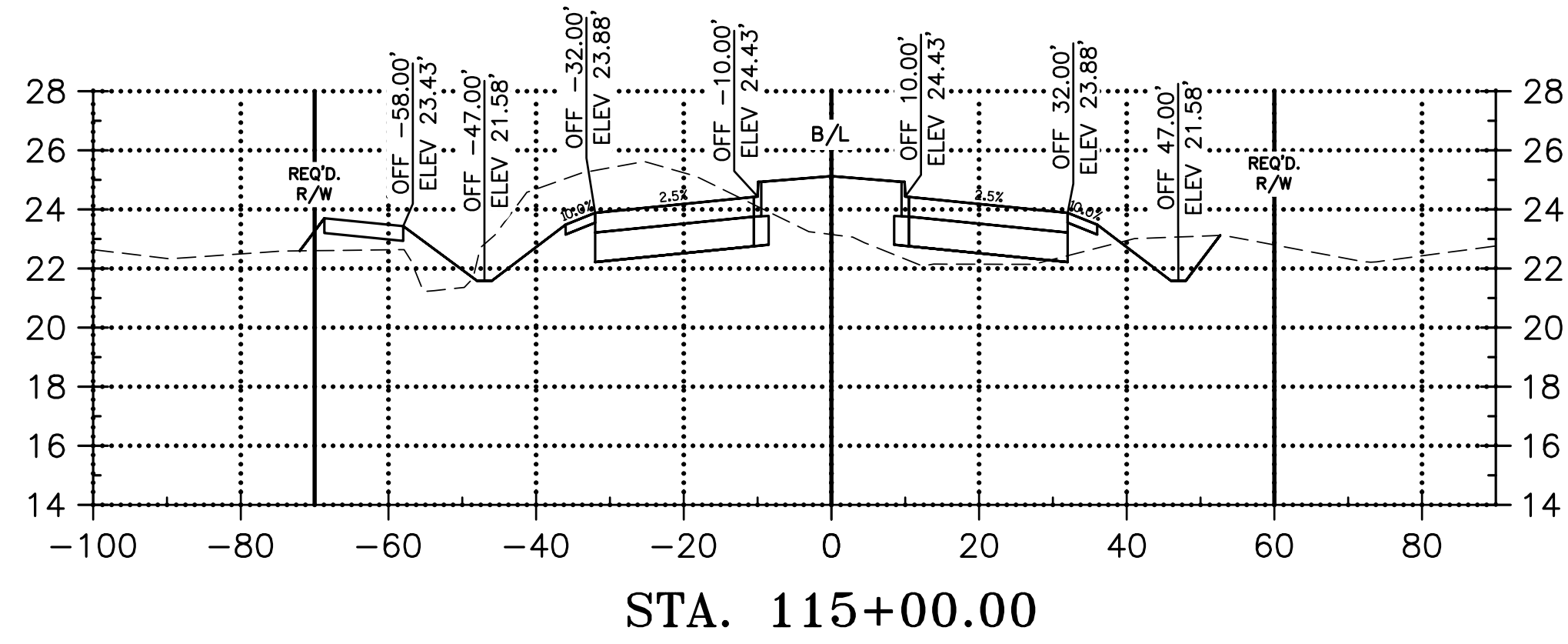
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RCLC No: 714-08



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Sheet Number:



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DESIGNED	ATL	DATE	04/29/21
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DETAILED	LBW	NO.	
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**CONNECTOR ROAD  
CROSS SECTIONS**  
LA 1077/LA 21 CONNECTOR ROAD

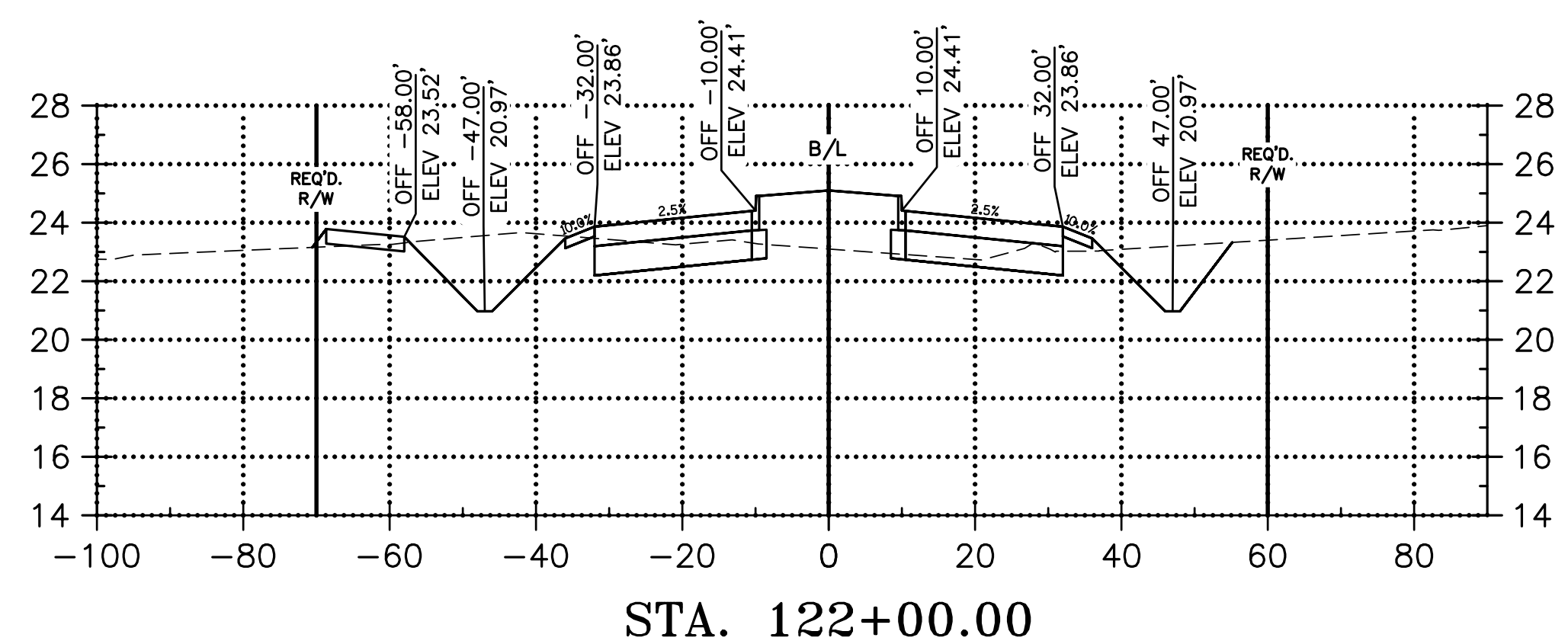
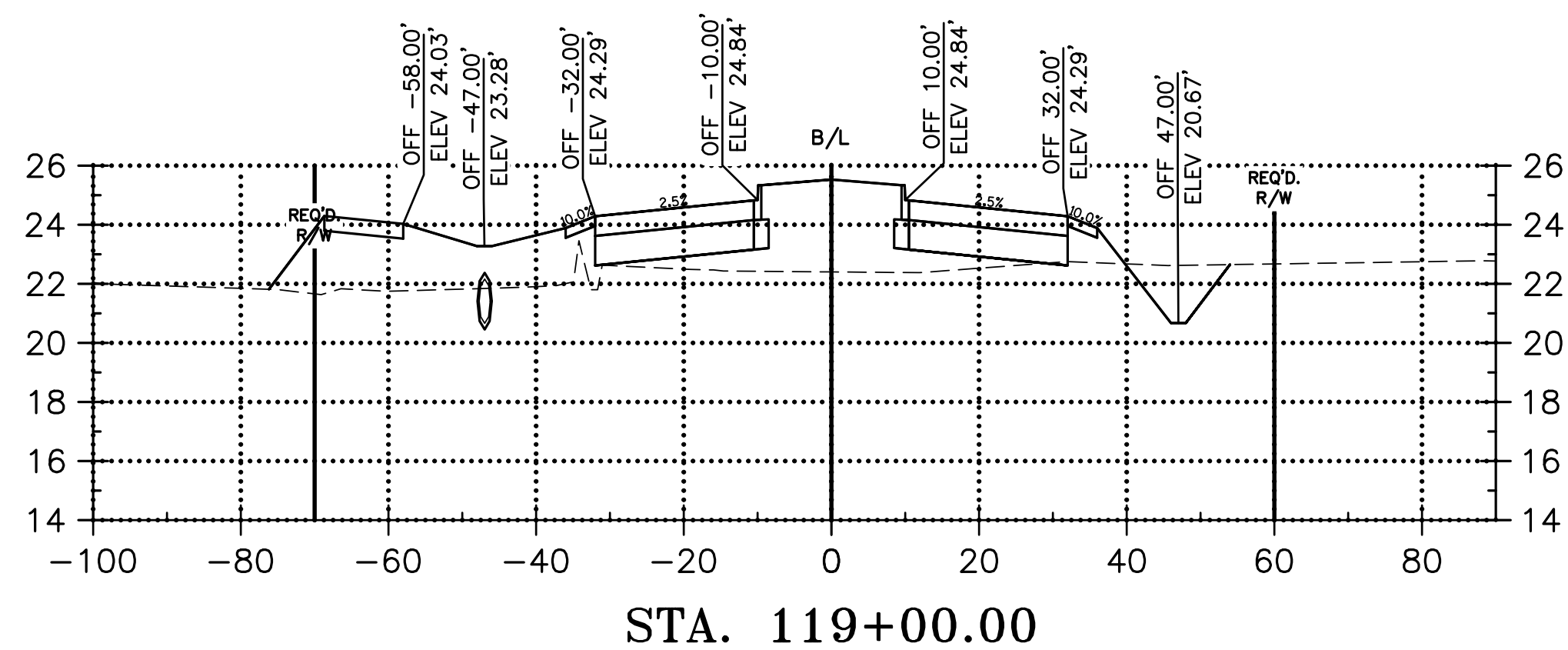
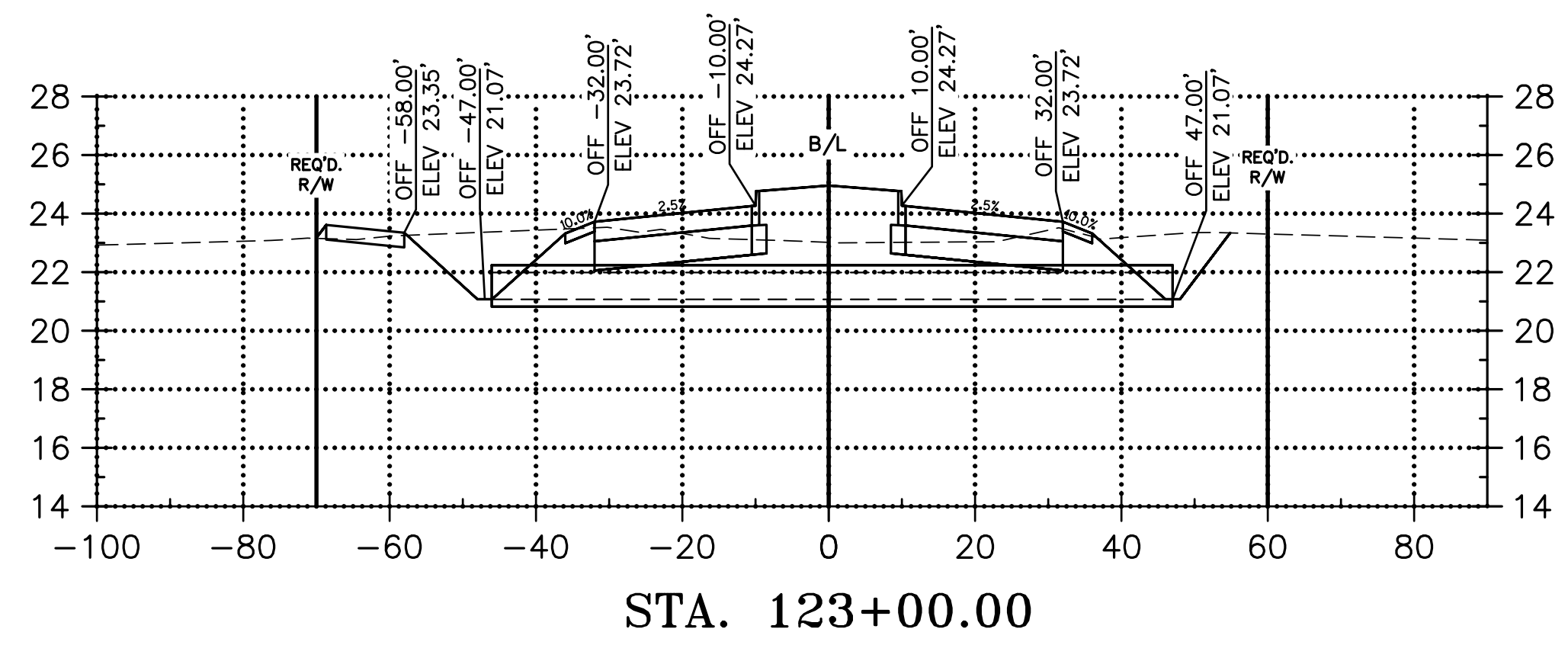
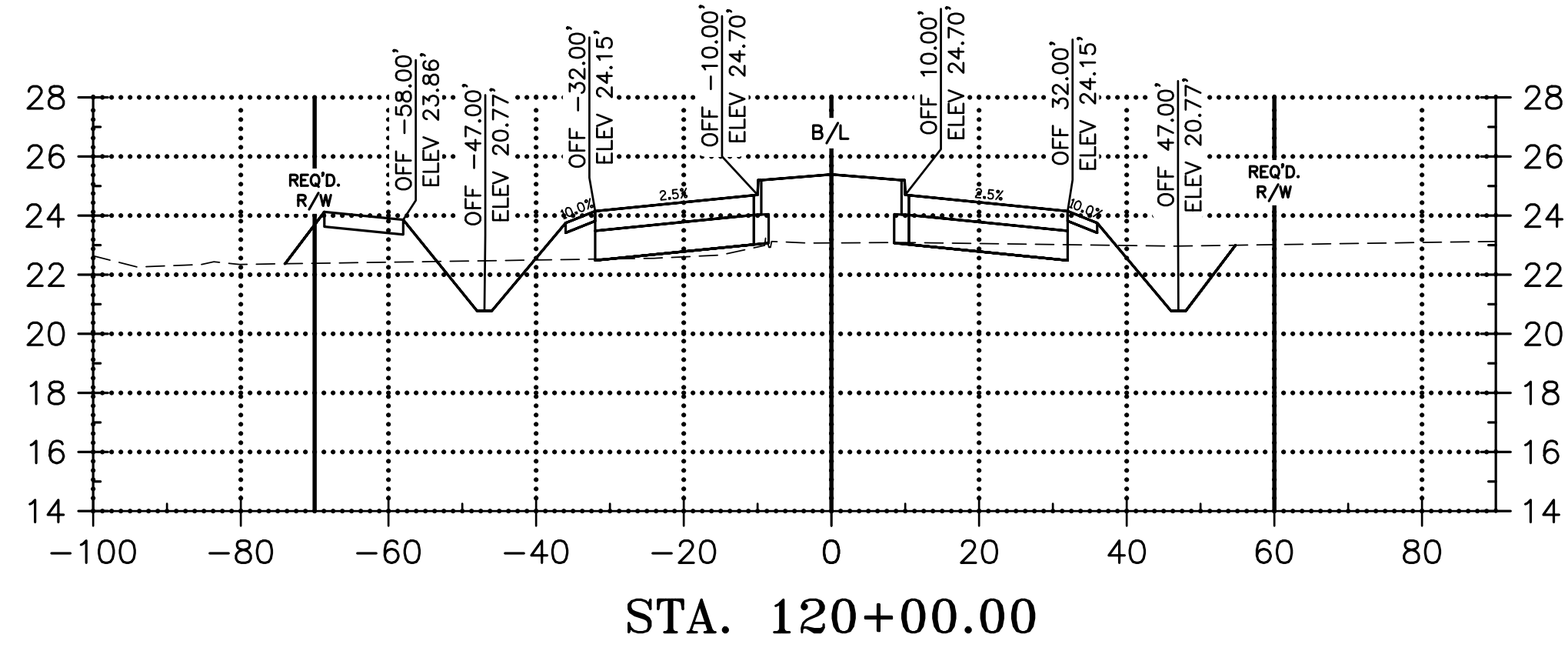
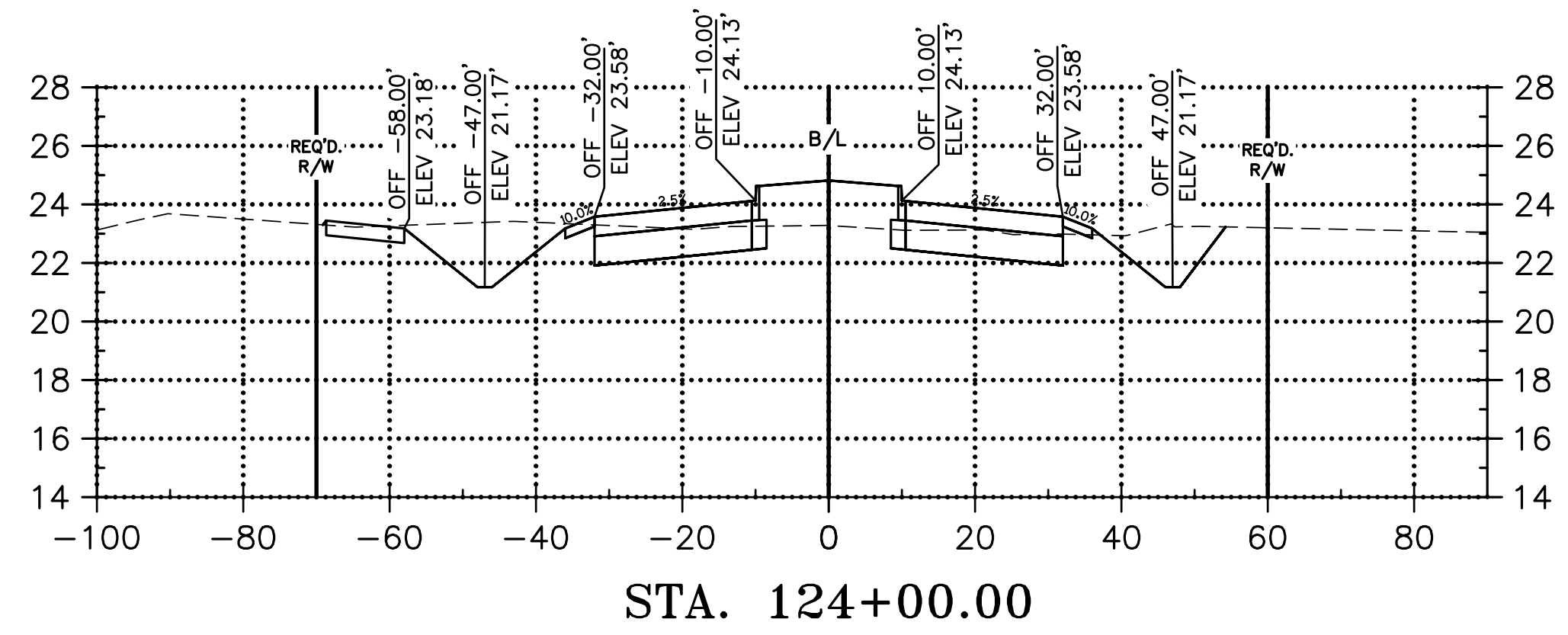
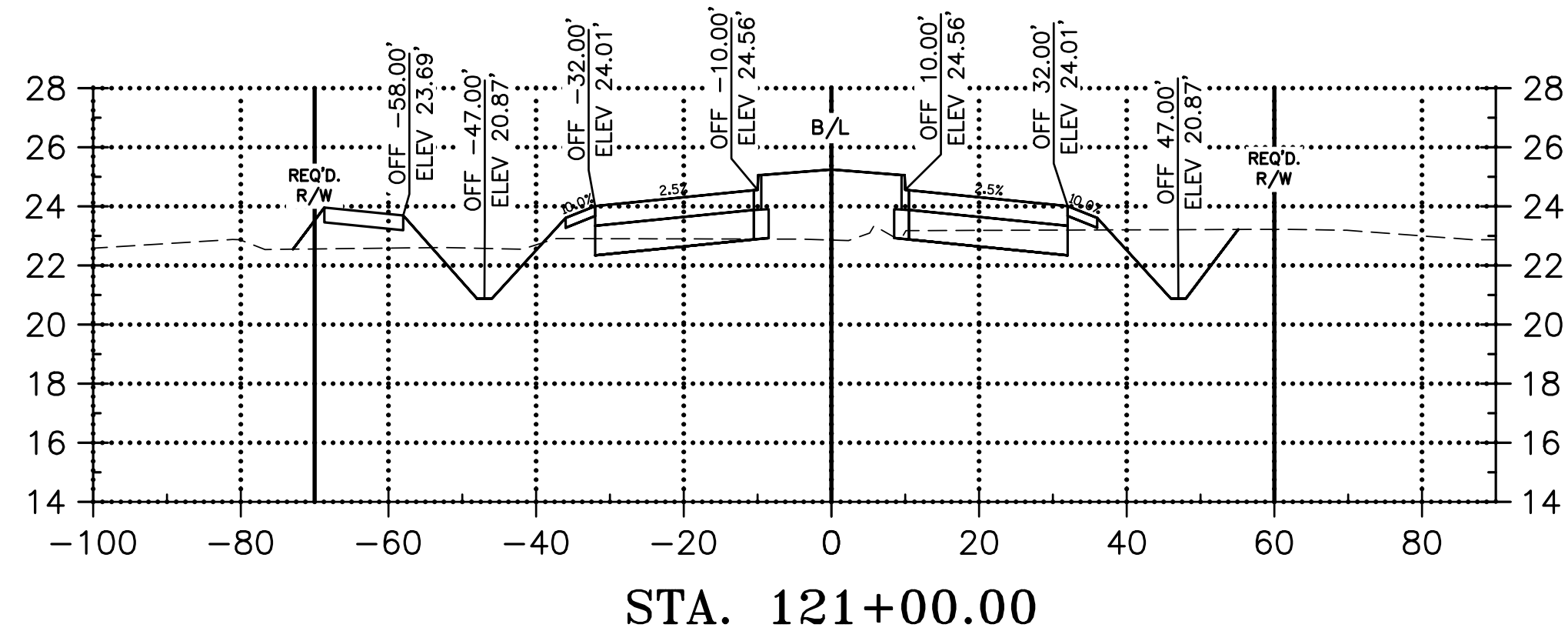
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RCLC No: 714-08



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DESIGNED	ATL	BY	407
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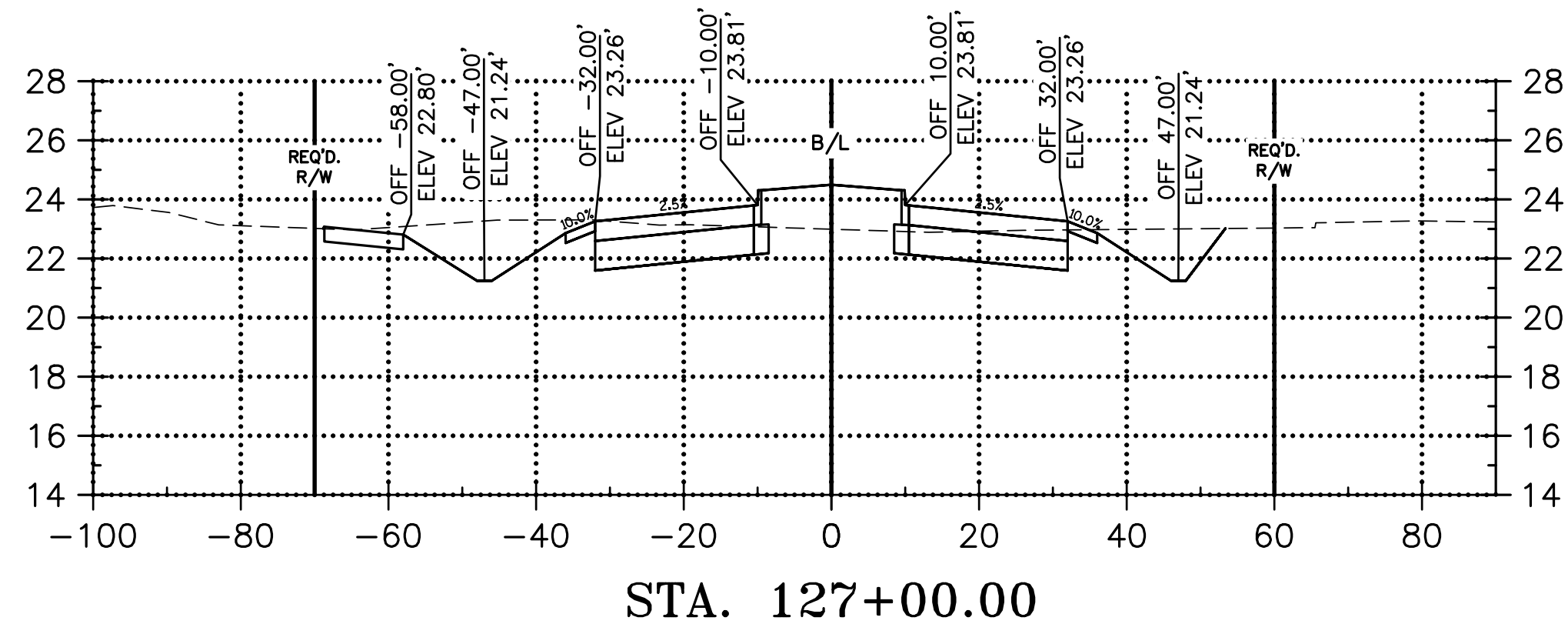

**CONNECTOR ROAD  
CROSS SECTIONS**  
LA 1077/LA 21 CONNECTOR ROAD

Project Number:  
RCLC No: 714-08

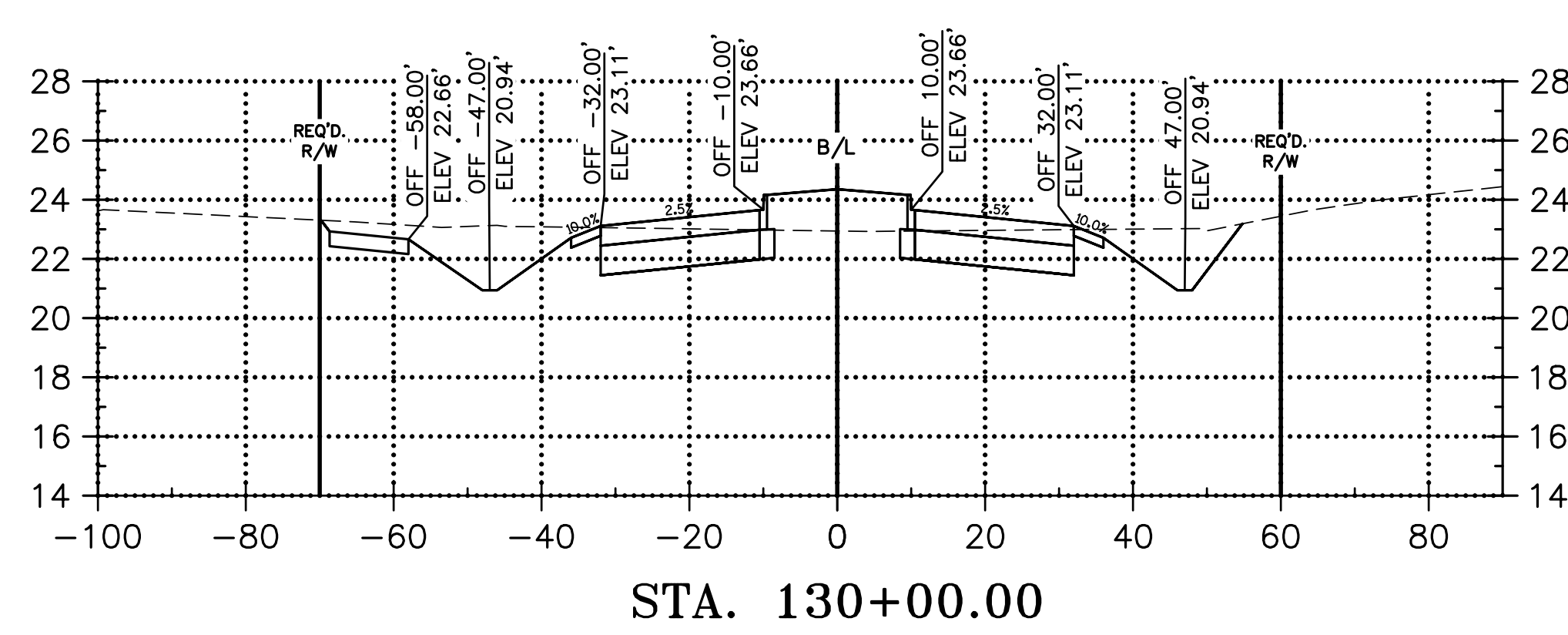


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Sheet Number:  
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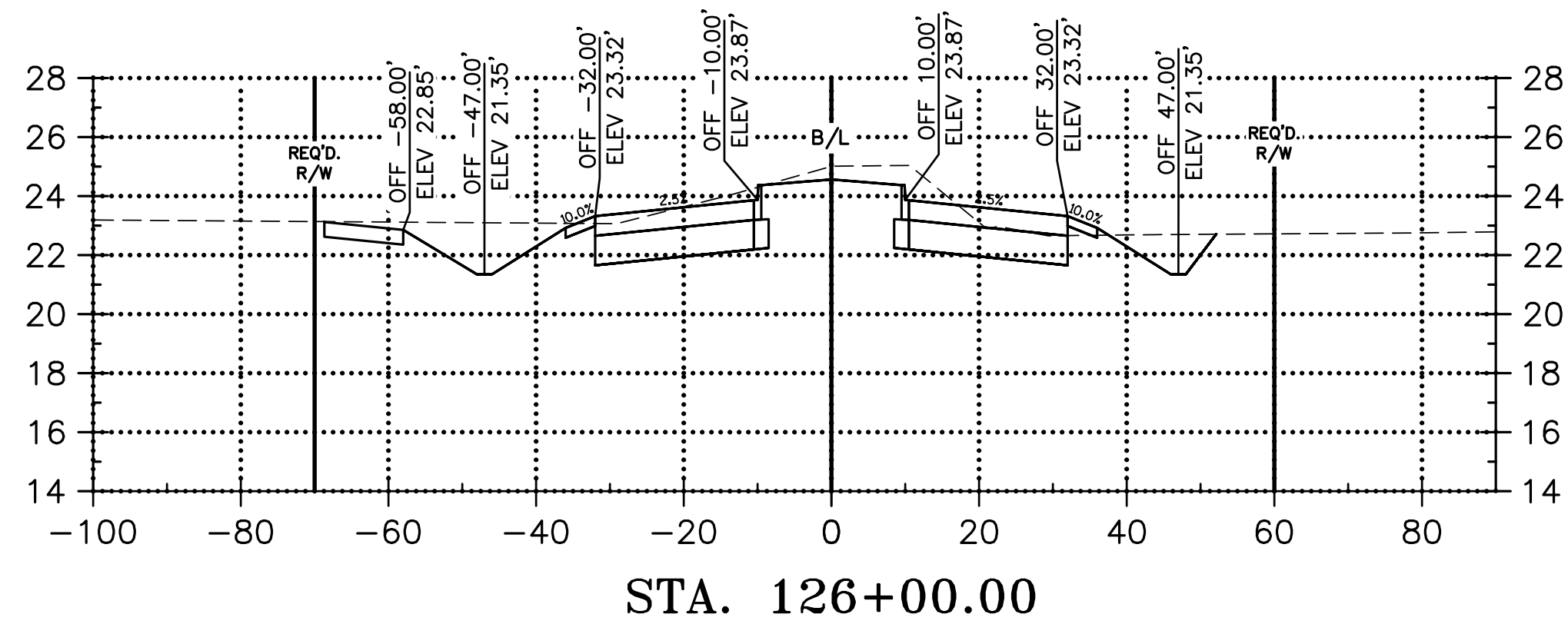
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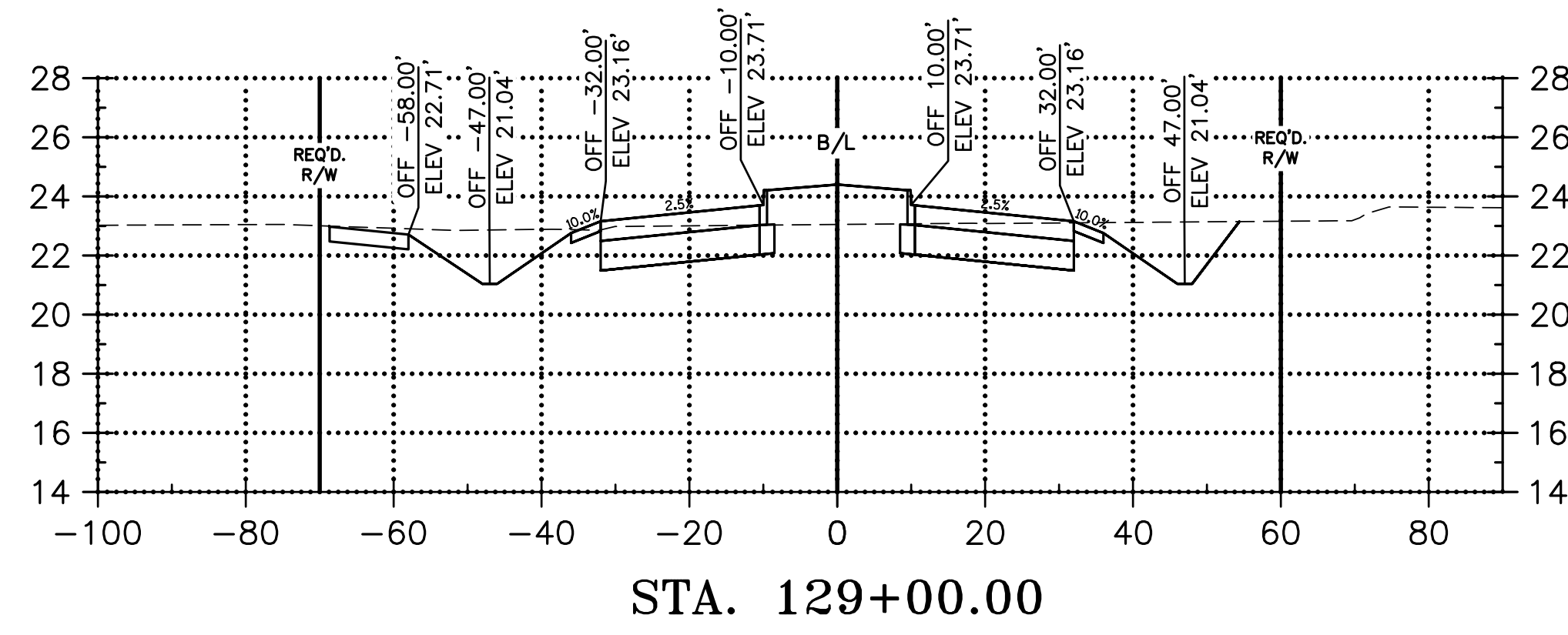
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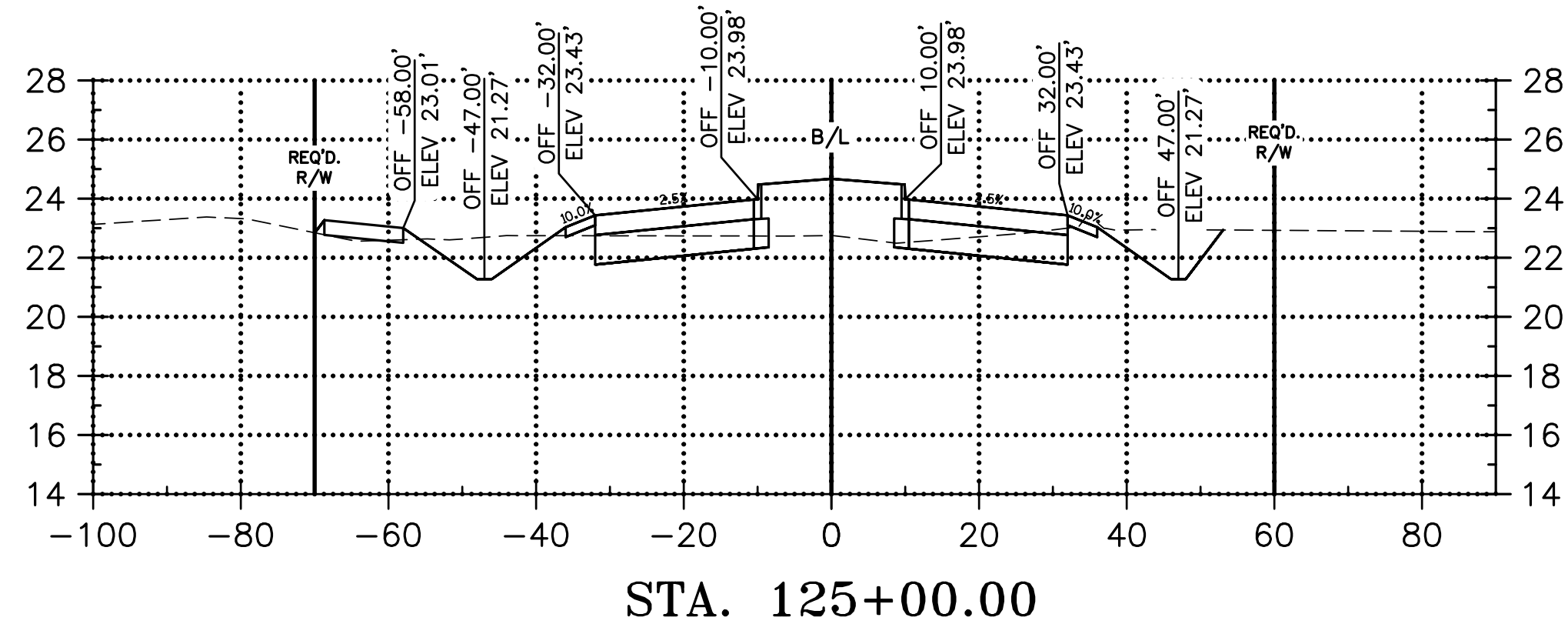
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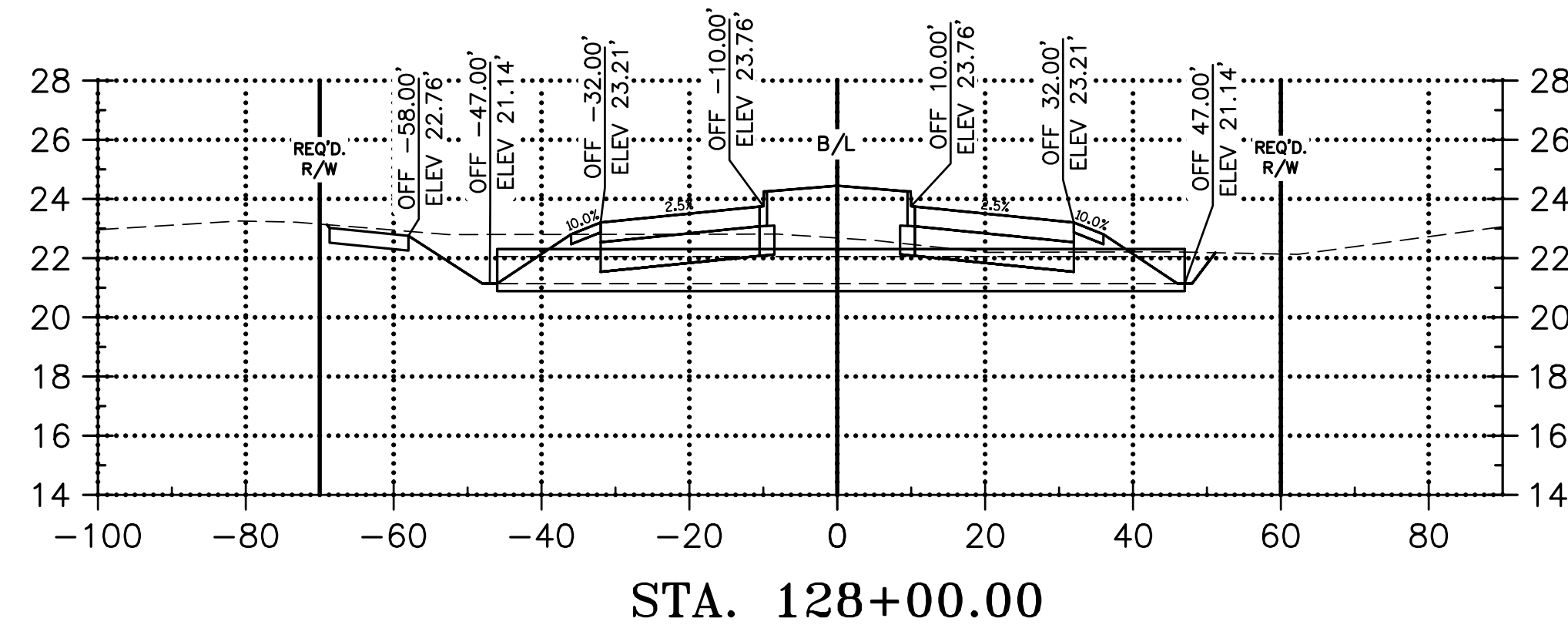
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FILL: 68.55 C.Y.



CUT: 338.75 C.Y.  
FILL: 106.94 C.Y.



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NO.	DATE	REVISION DESCRIPTION	BY

# CONNECTOR ROAD CROSS SECTIONS

LA 1077/LA 21 CONNECTOR ROAD

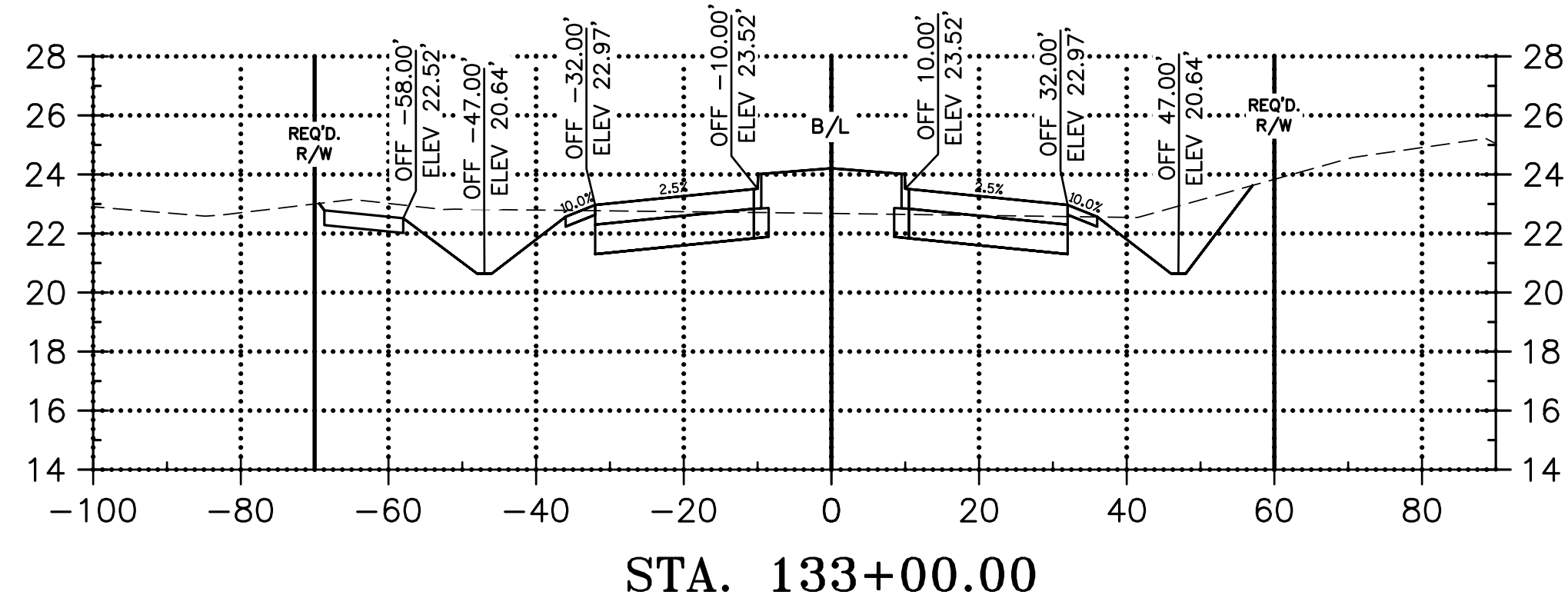
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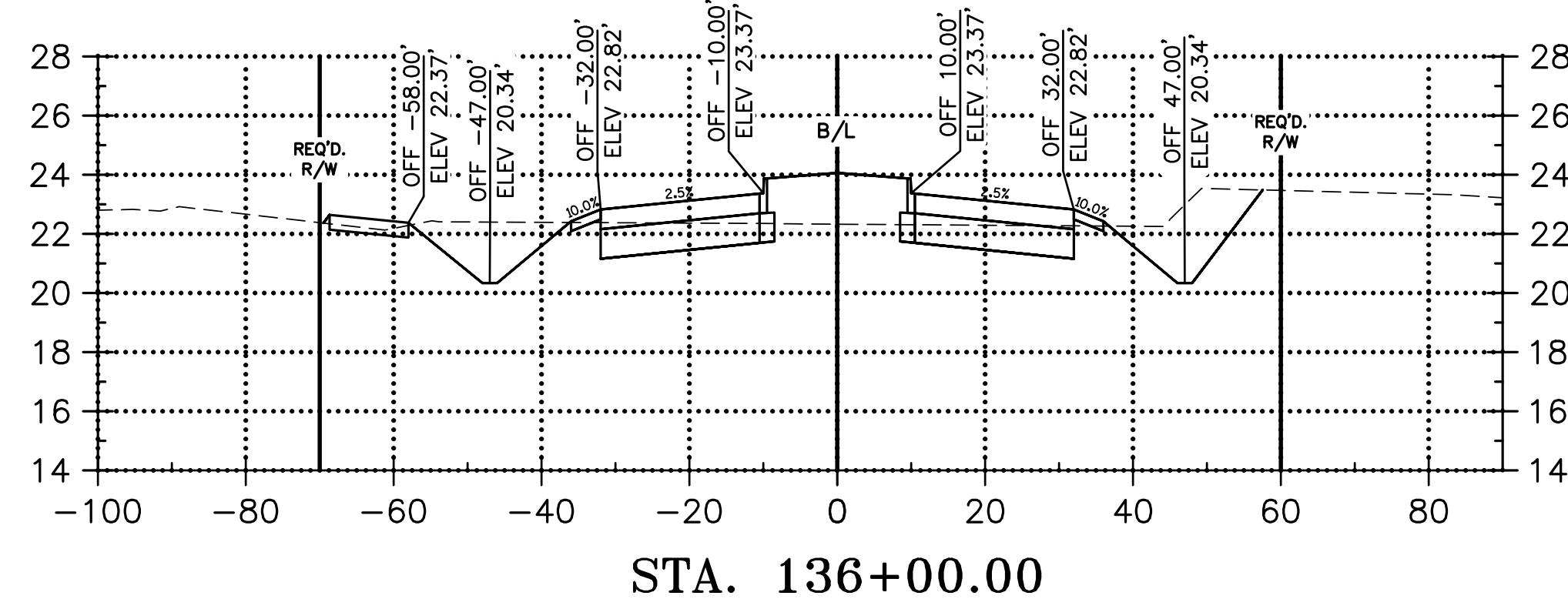
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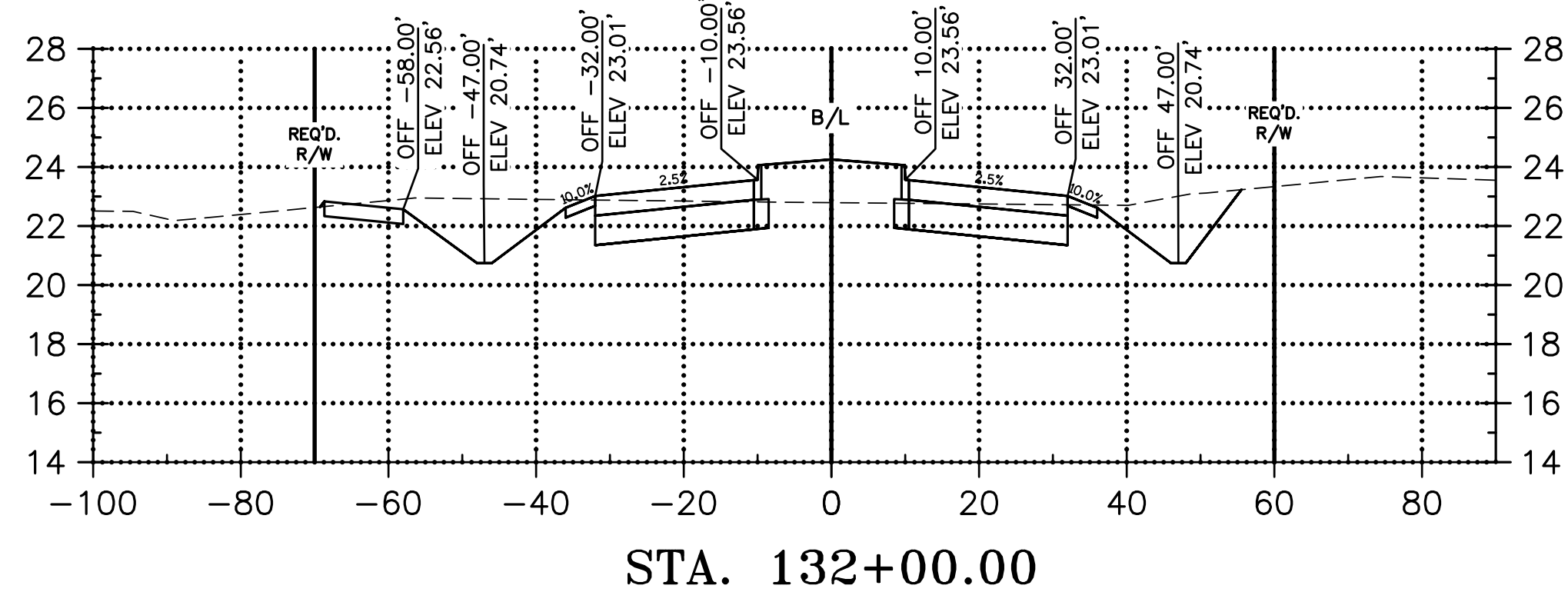
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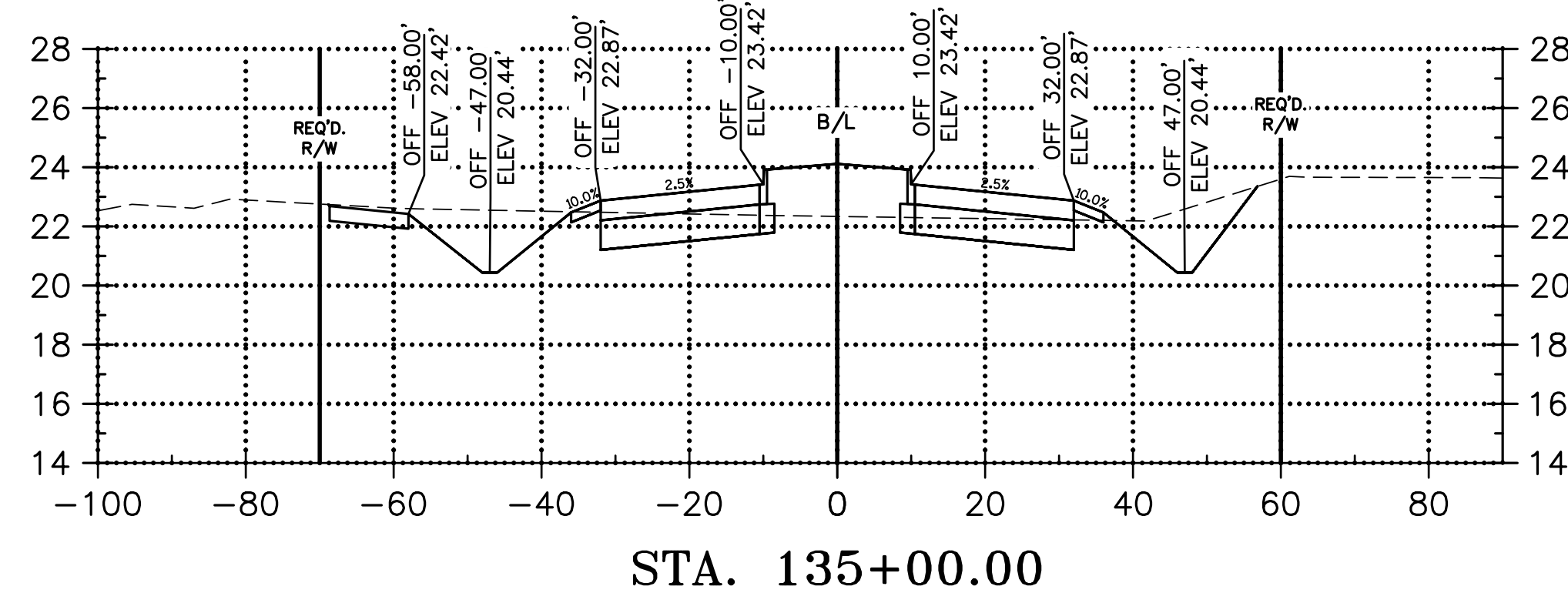
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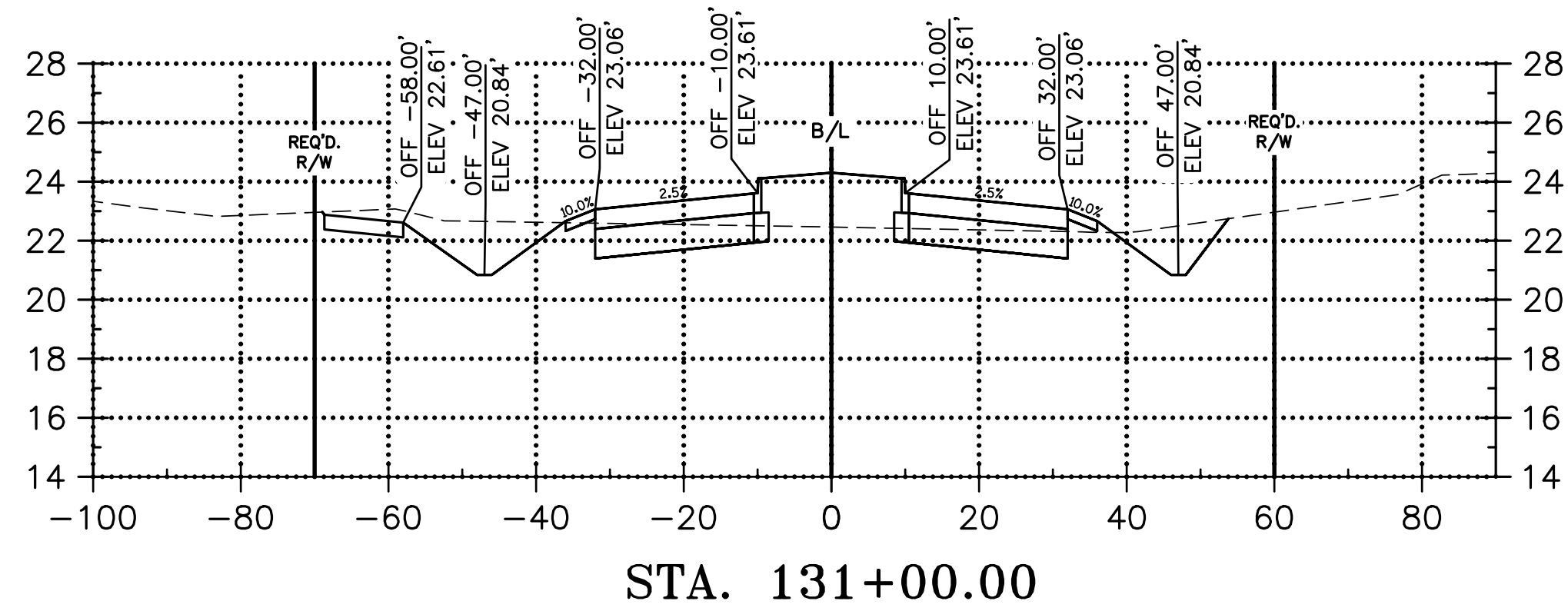
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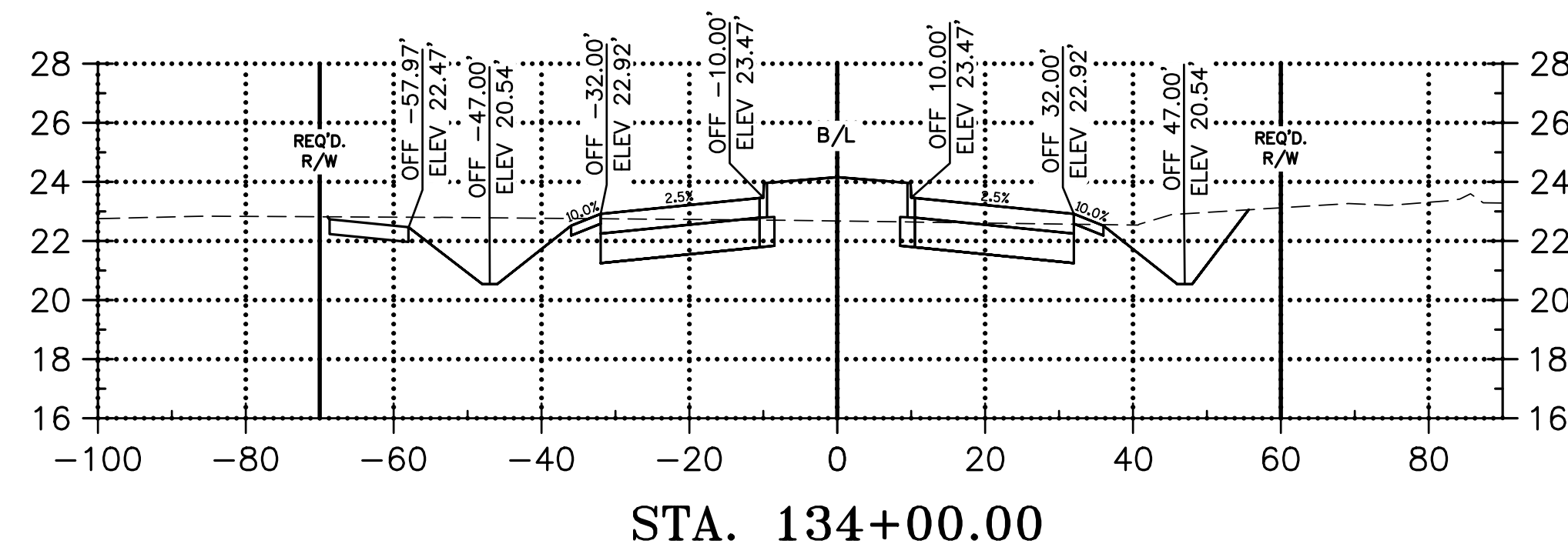
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FILL: 116.09 C.Y.



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FILL: 110.09 C.Y.



CUT: 394.21 C.Y.  
FILL: 107.18 C.Y.



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DETAILED	LBW	NO.	
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NO.	DATE	REVISION DESCRIPTION	BY

# CONNECTOR ROAD CROSS SECTIONS

LA 1077/LA 21 CONNECTOR ROAD

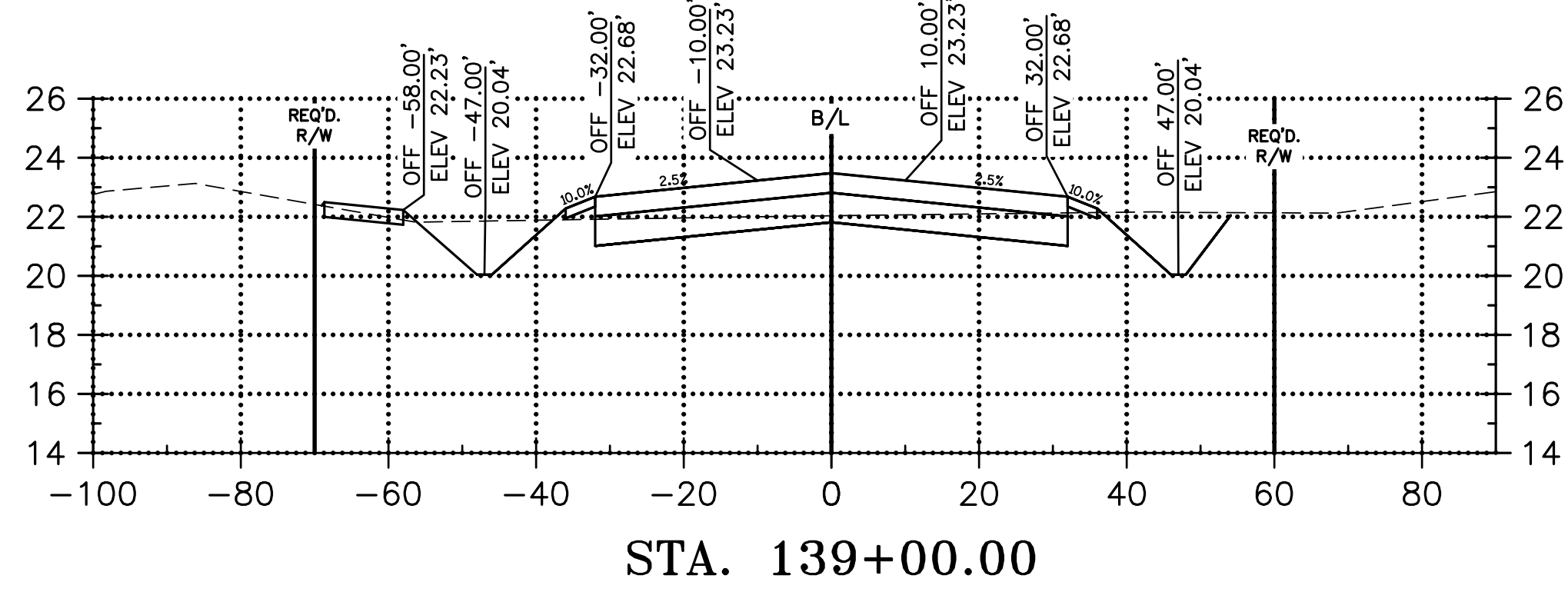
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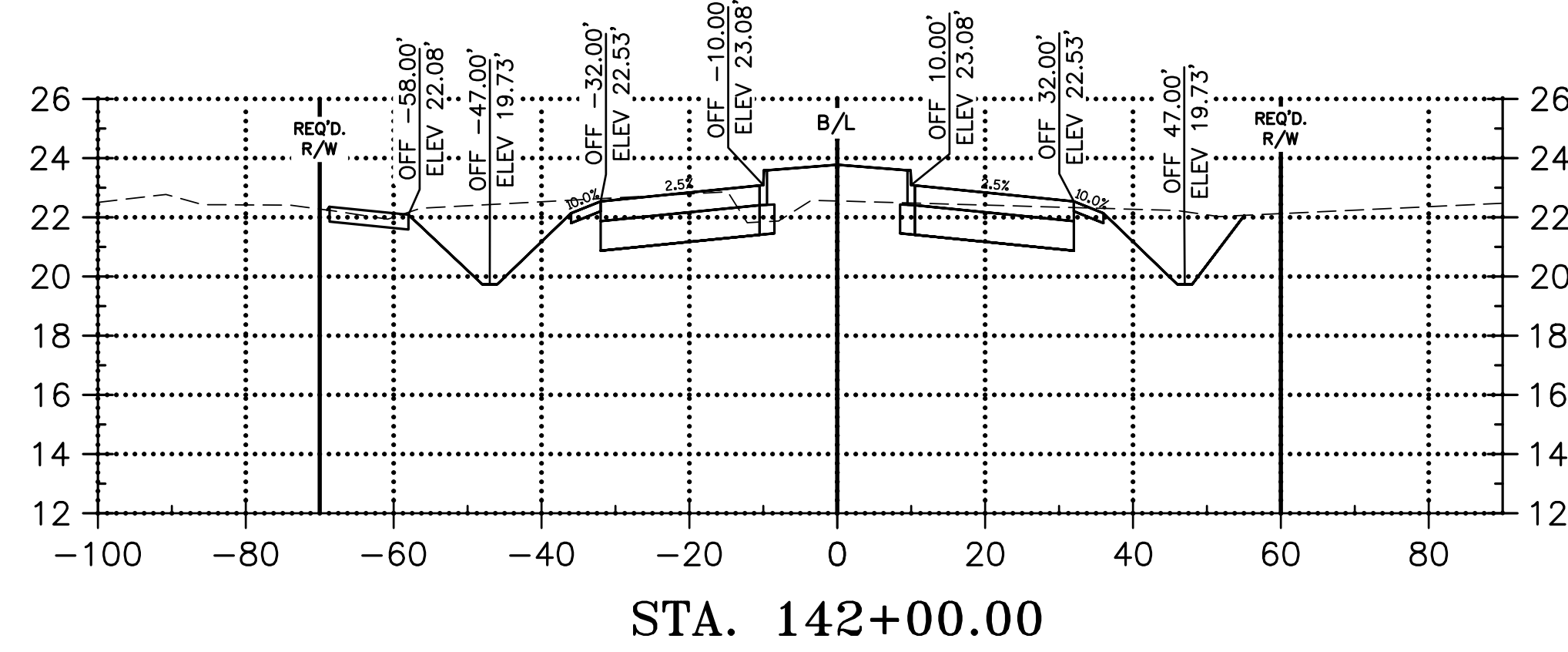
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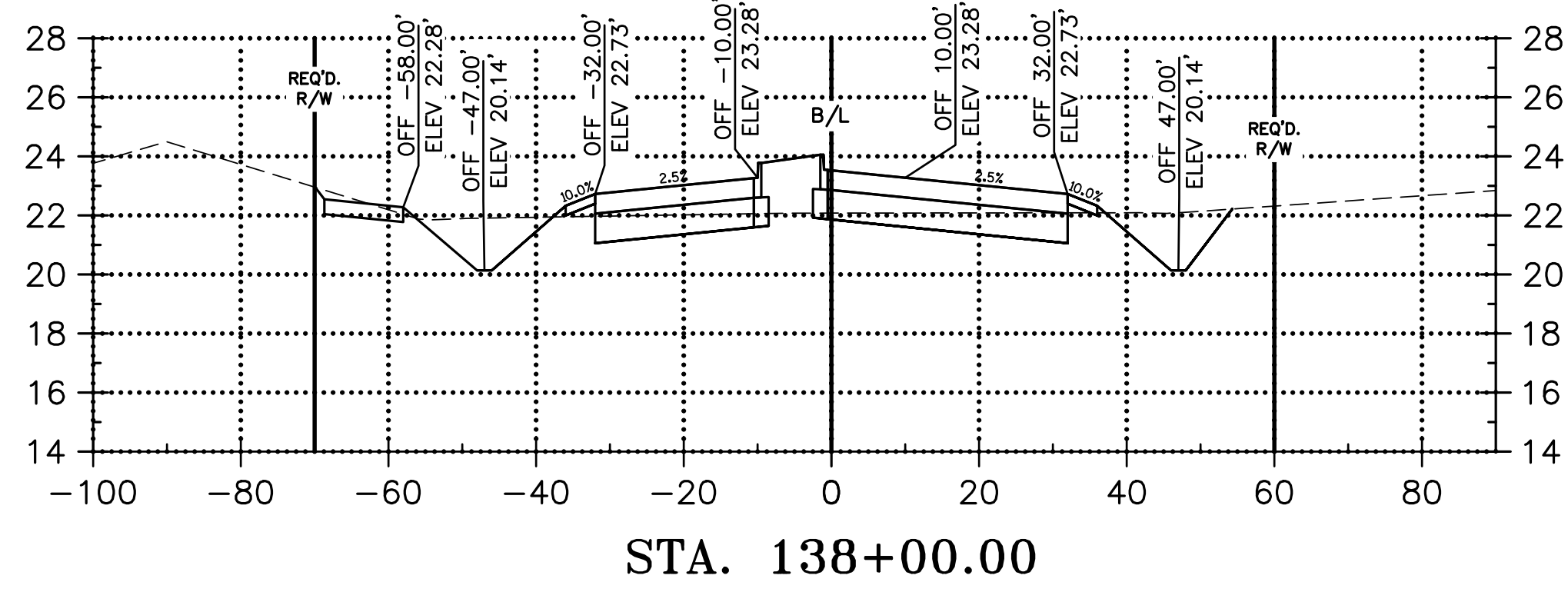
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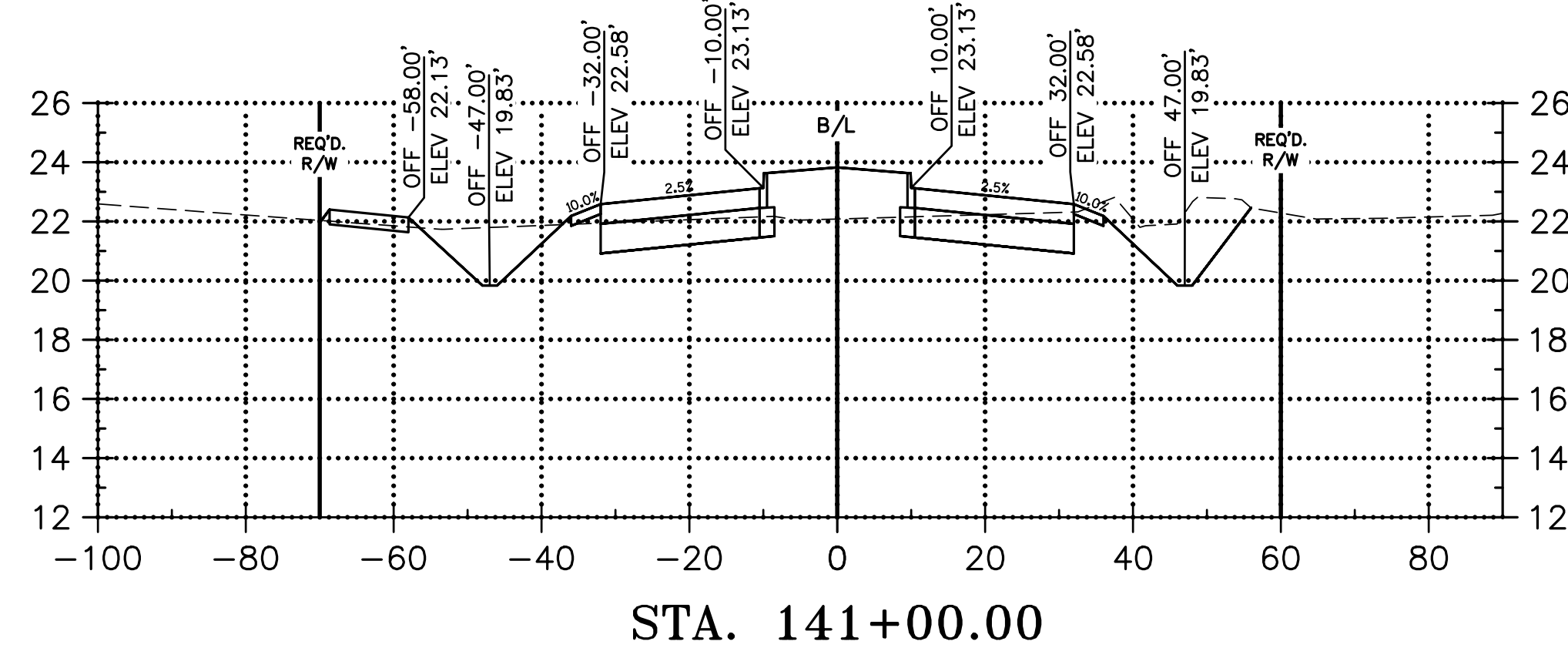
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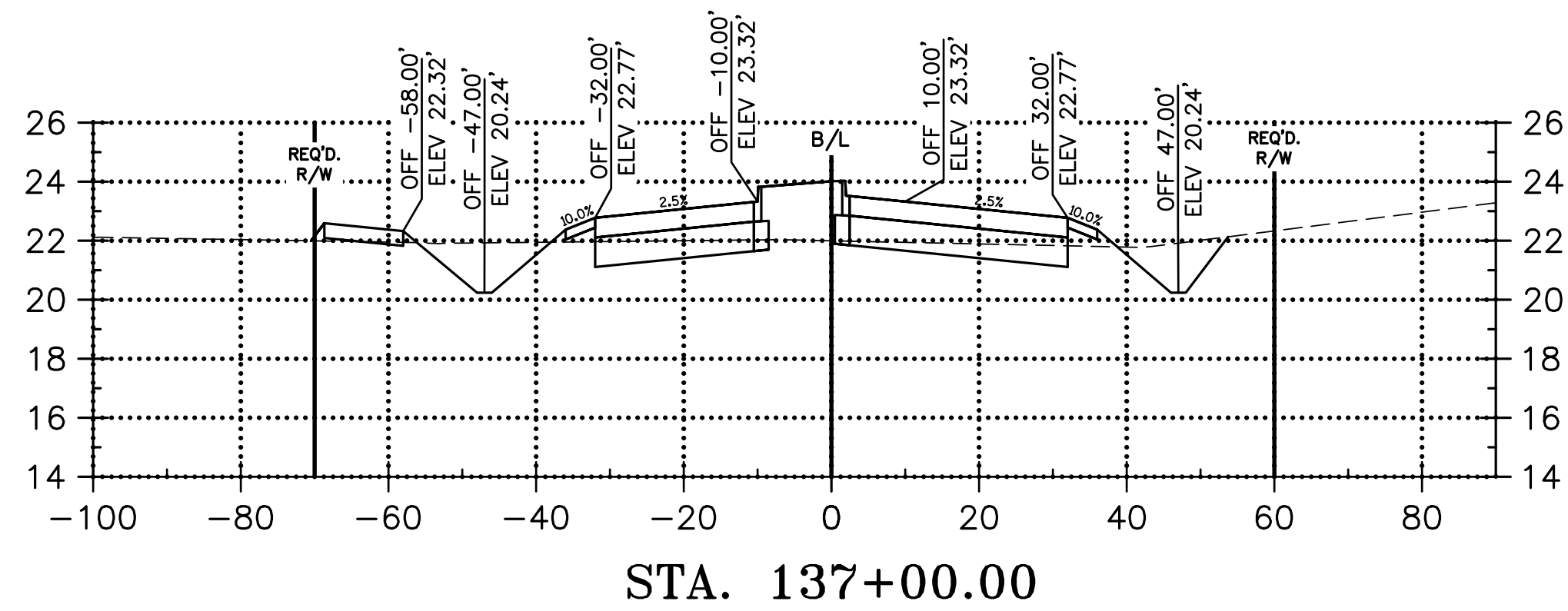
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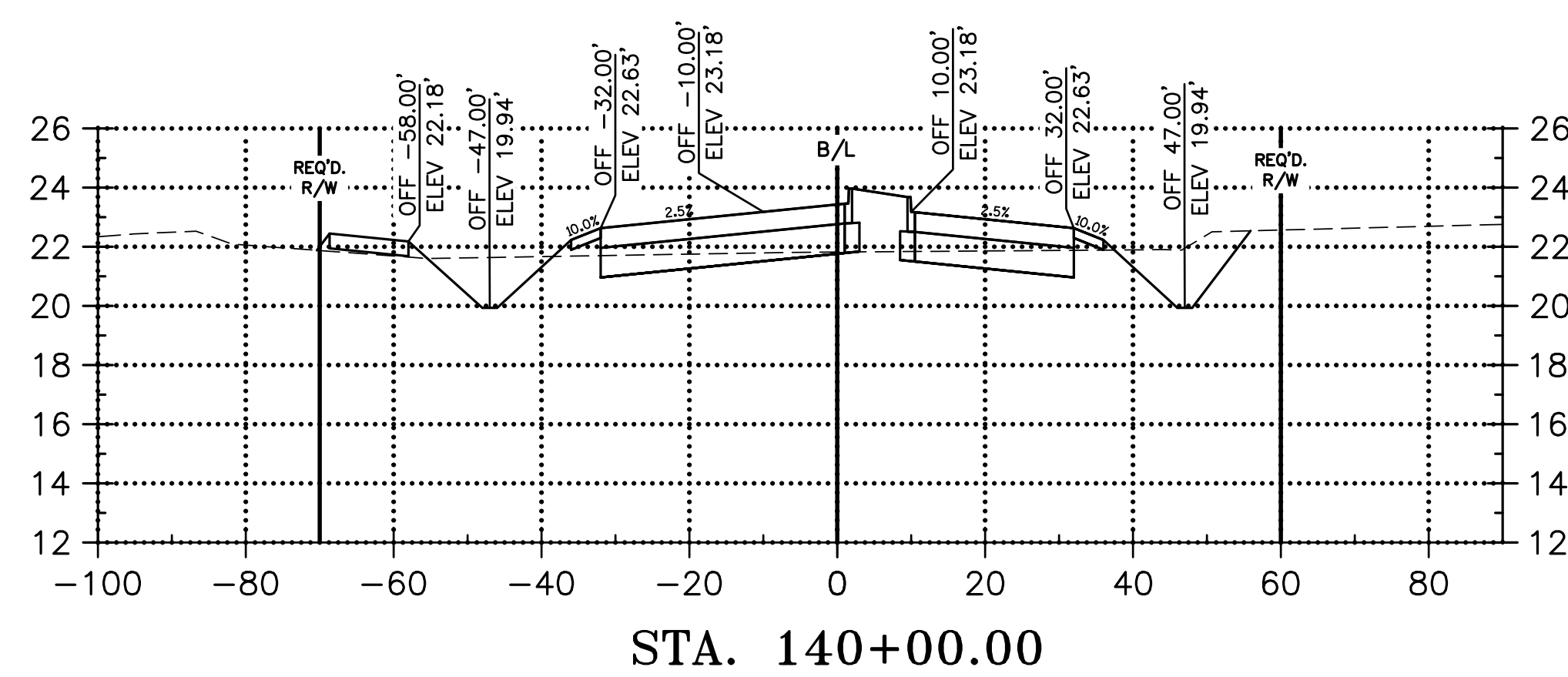
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FILL: 74.21 C.Y.



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FILL: 92.59 C.Y.



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DESIGNED	ATL	NO.	410
CHECKED	FJZ	DATE	04/29/21
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# CONNECTOR ROAD CROSS SECTIONS

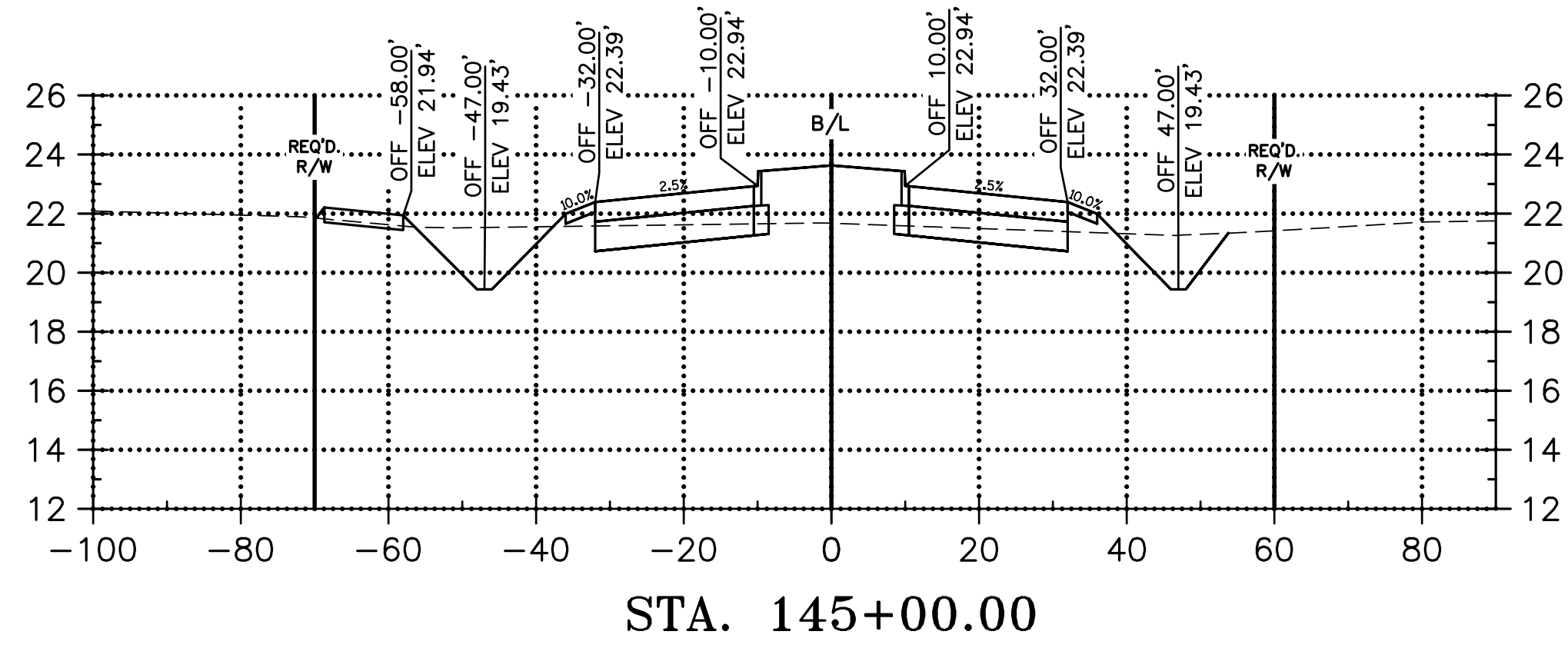
LA 1077/LA 21 CONNECTOR ROAD

Project Number:  
RCLC No: 714-08

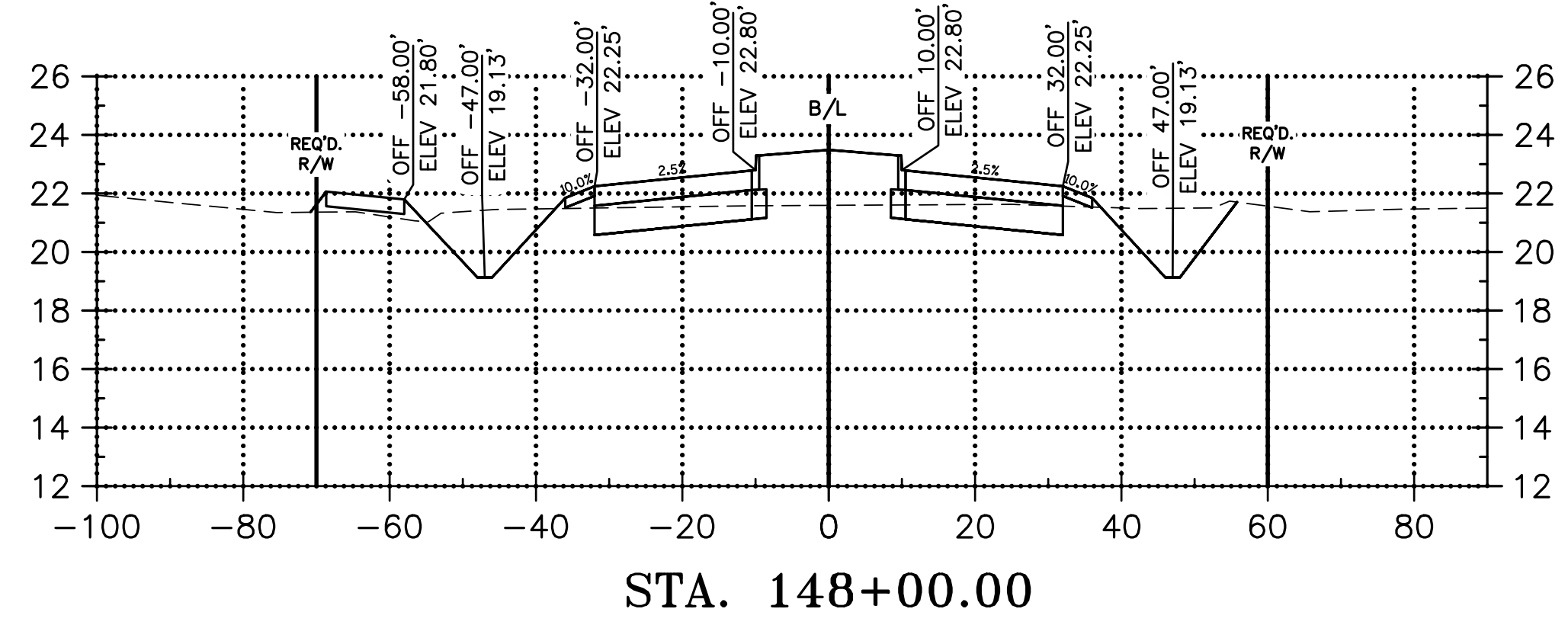


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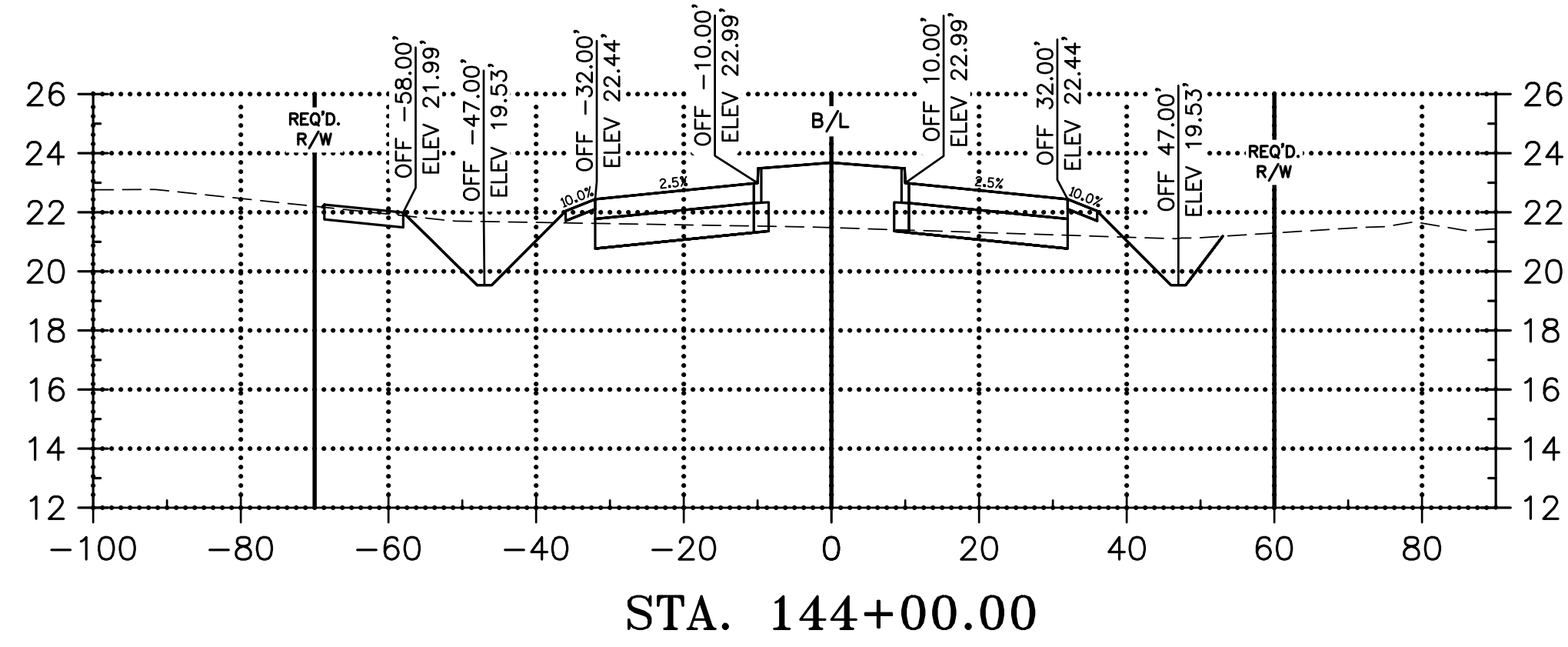
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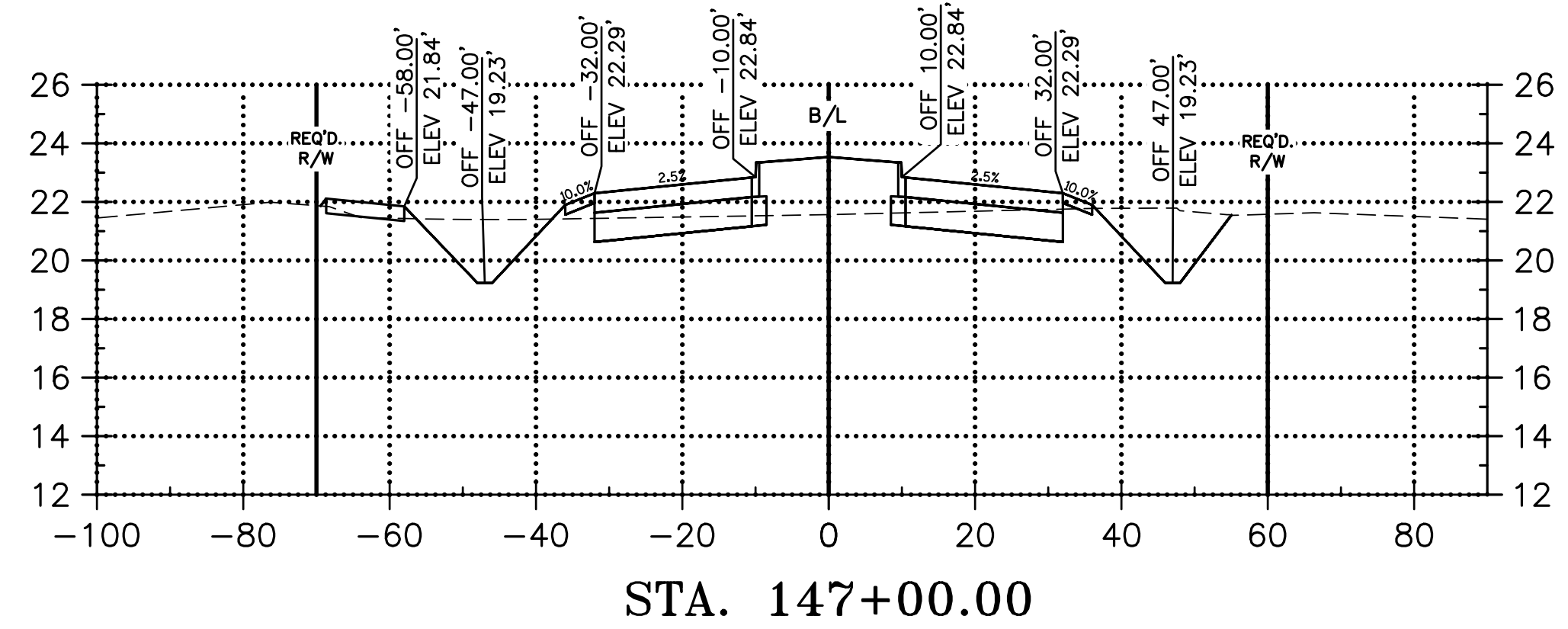
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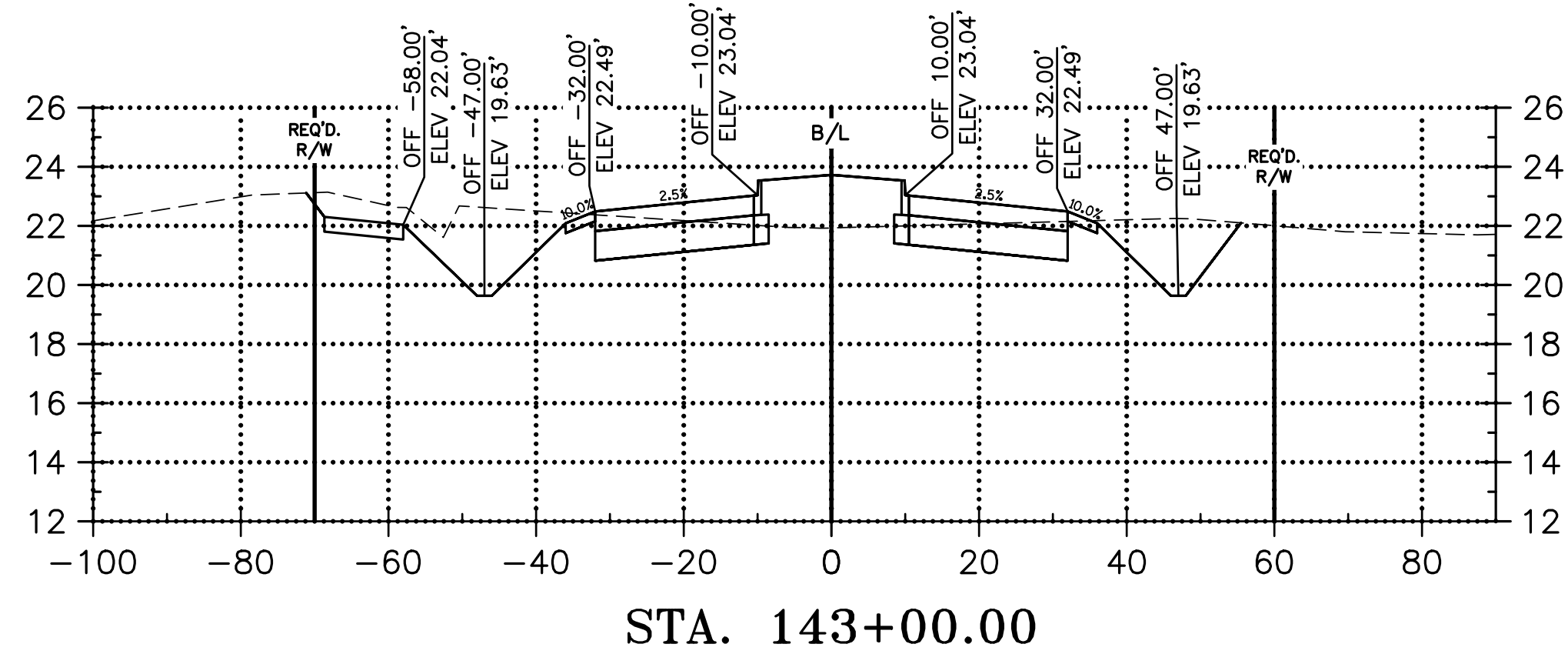
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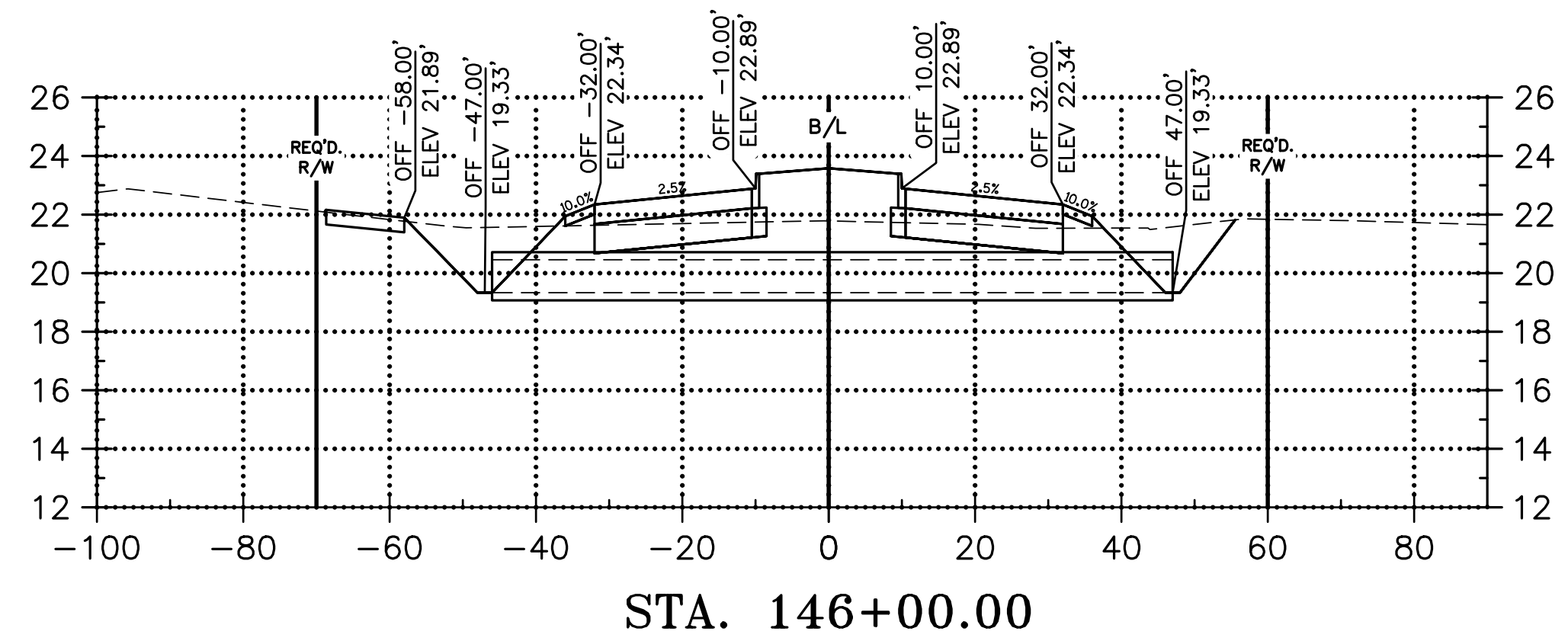
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FILL: 139.26 C.Y.



CUT: 304.03 C.Y.  
FILL: 262.69 C.Y.



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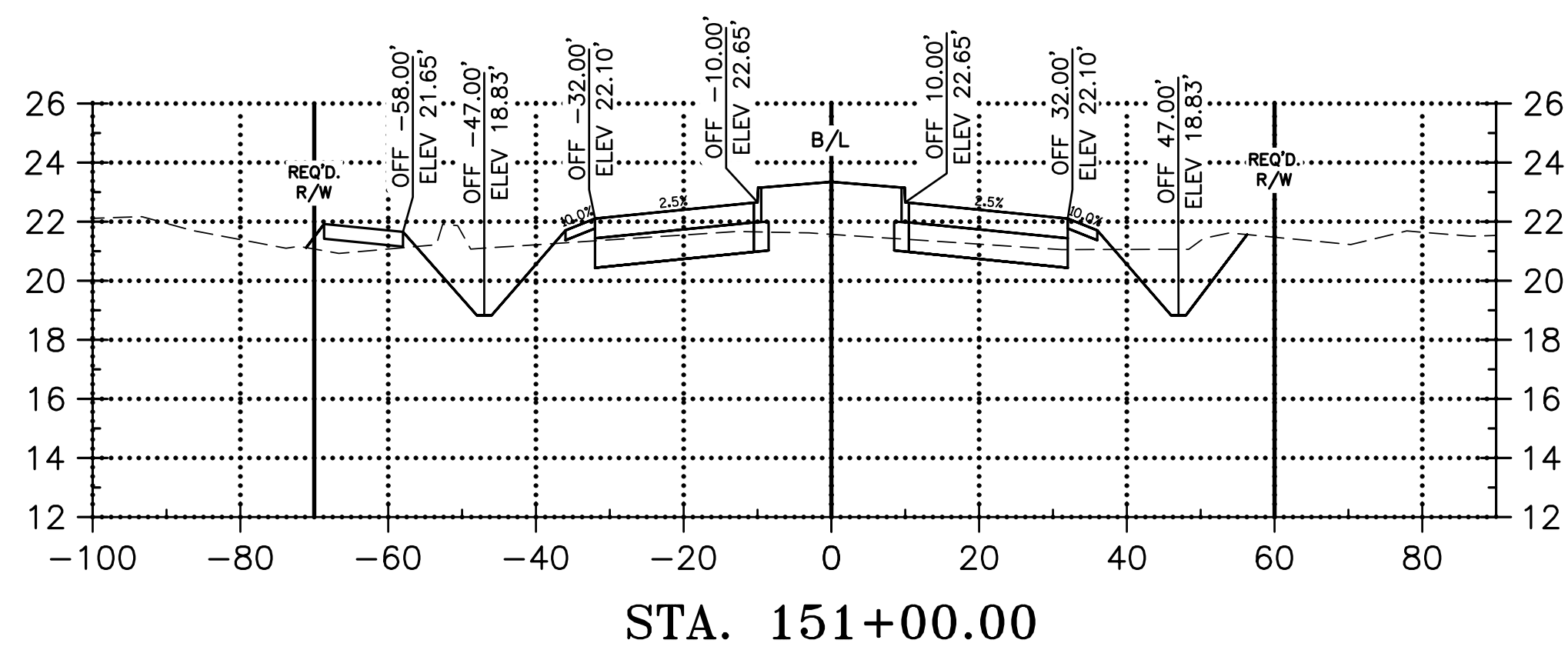
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CROSS SECTIONS  
LA 1077/LA 21 CONNECTOR ROAD

Project Number:  
RCLC No: 714-08

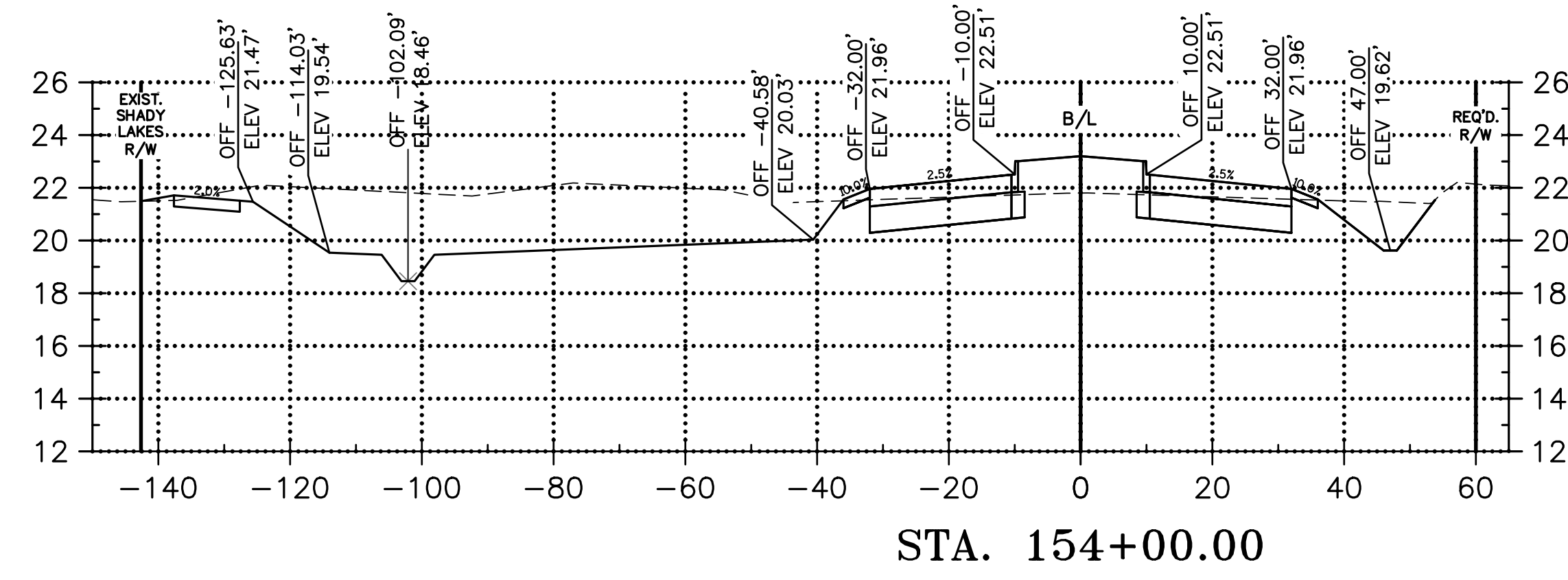


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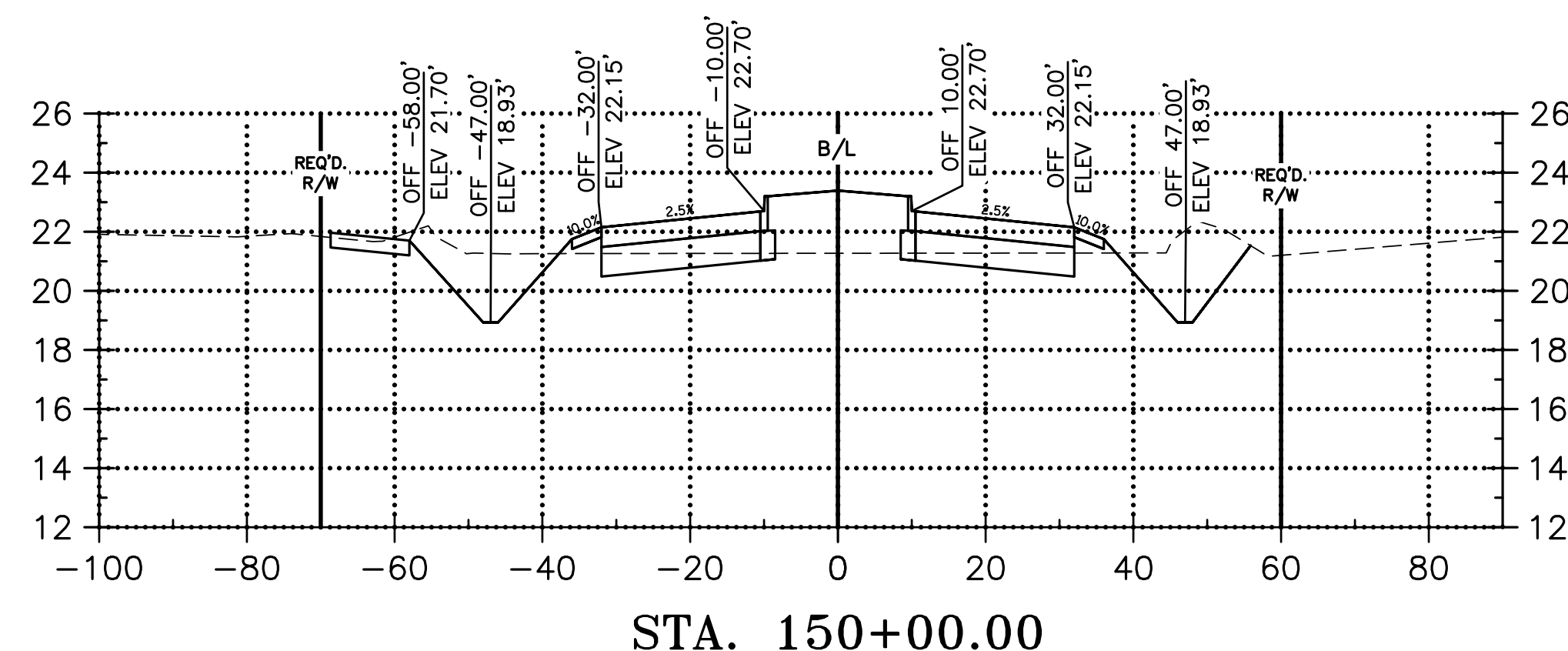




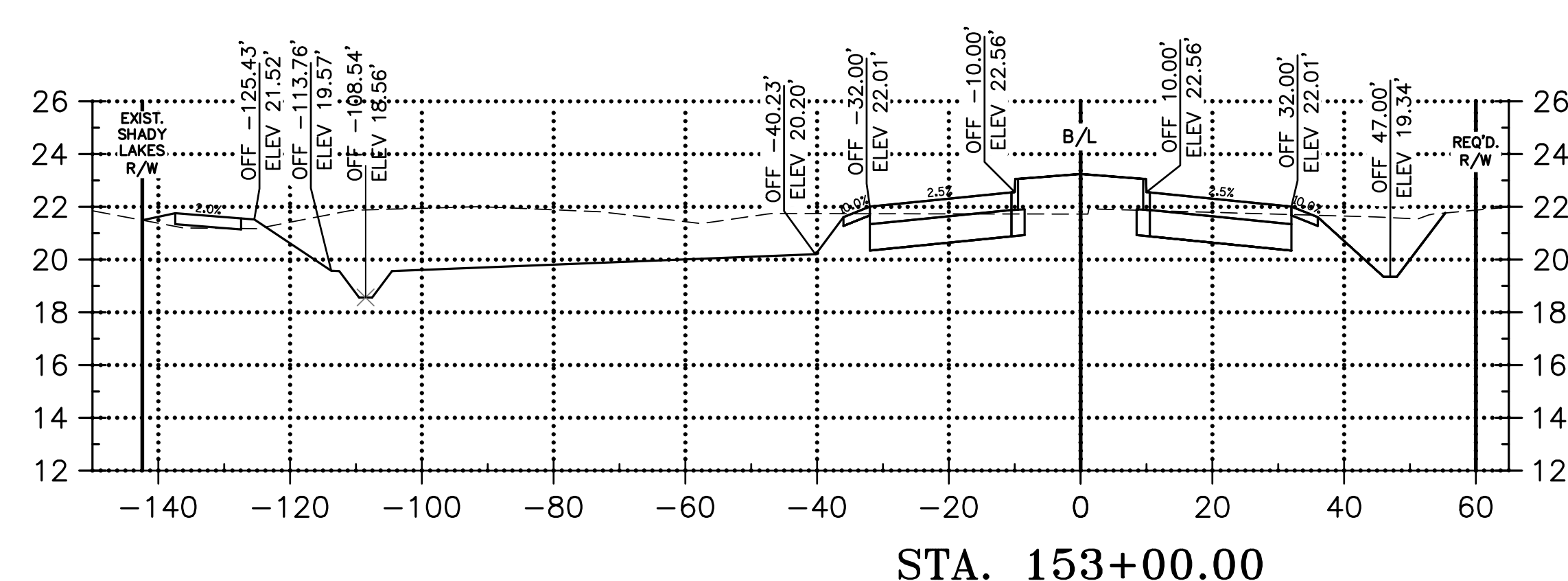
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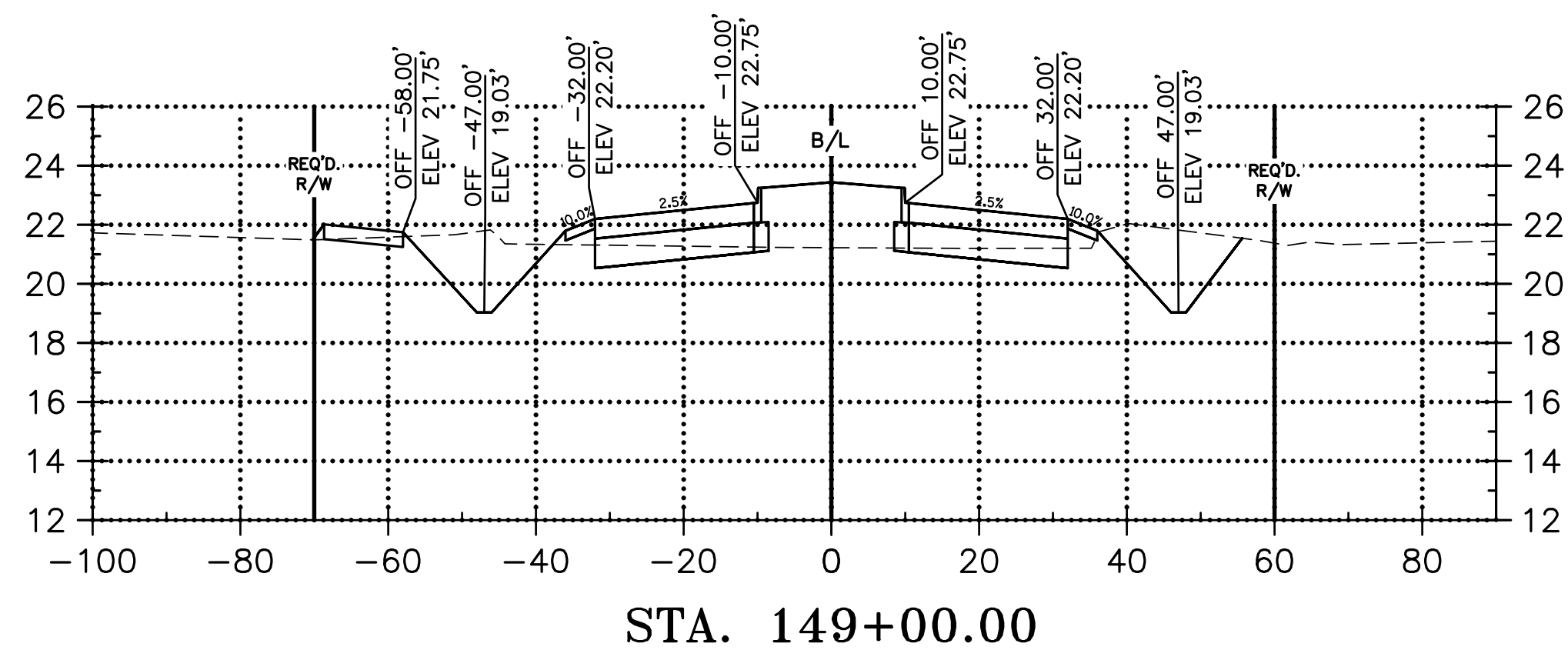
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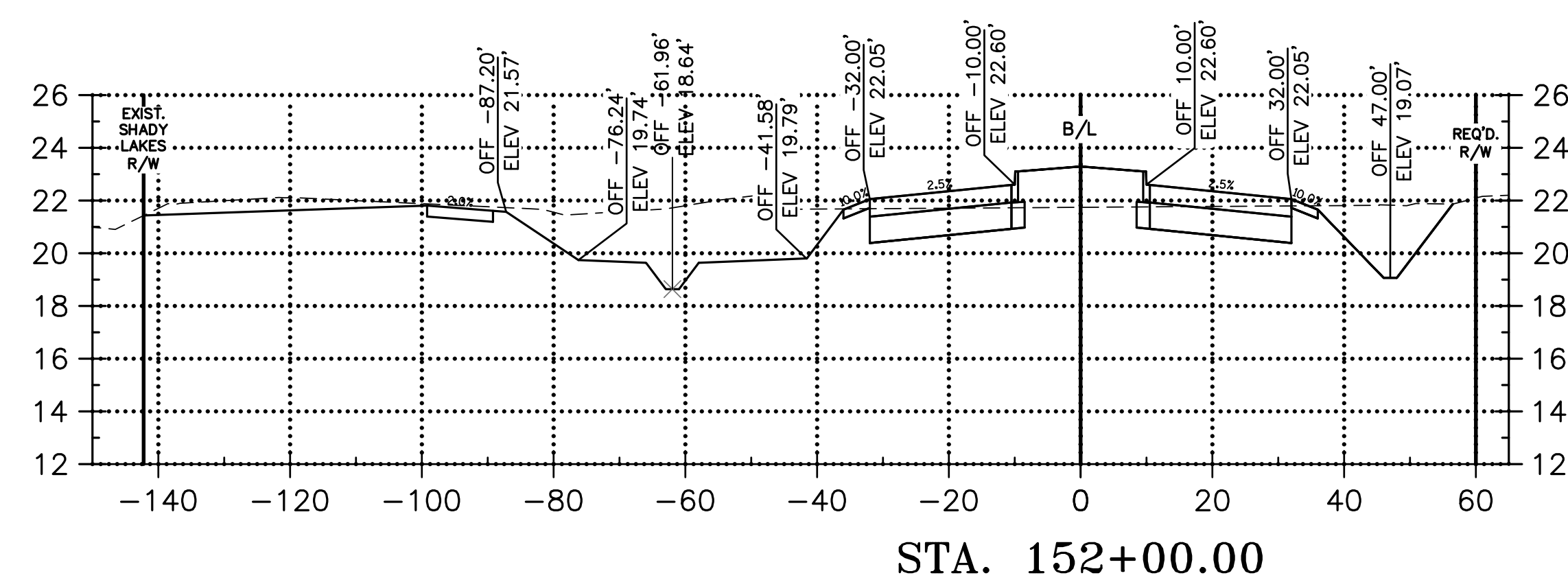
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DESIGNED	ATL
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**CONNECTOR ROAD  
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 LA 1077/LA 21 CONNECTOR ROAD

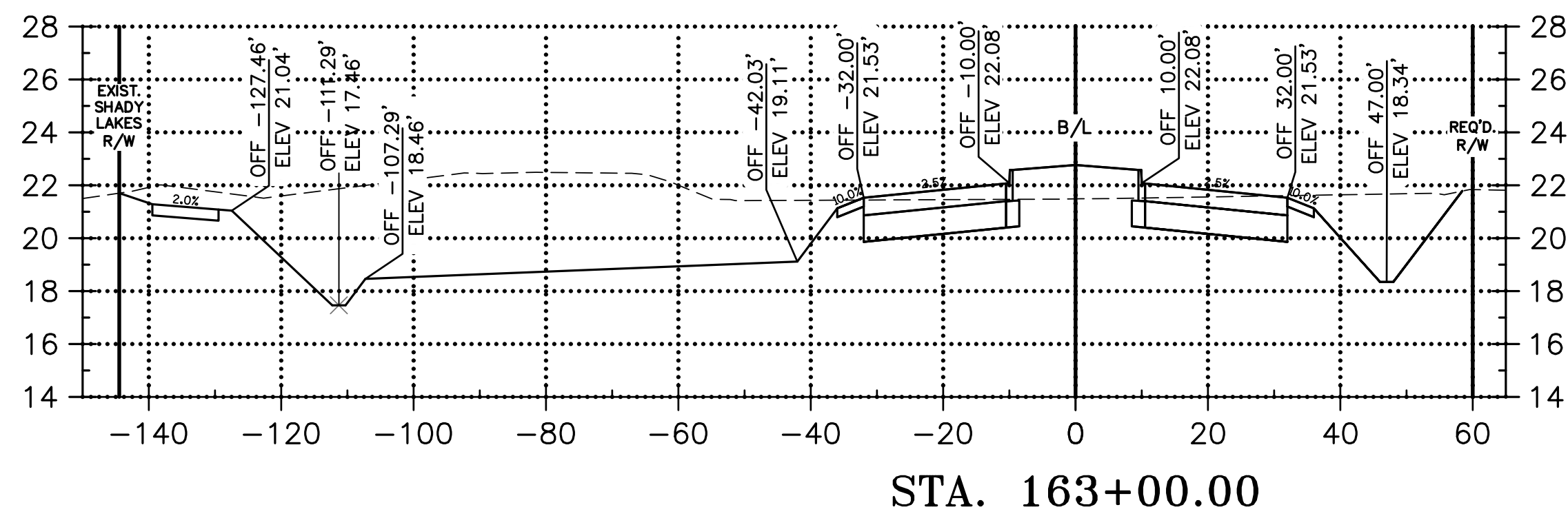
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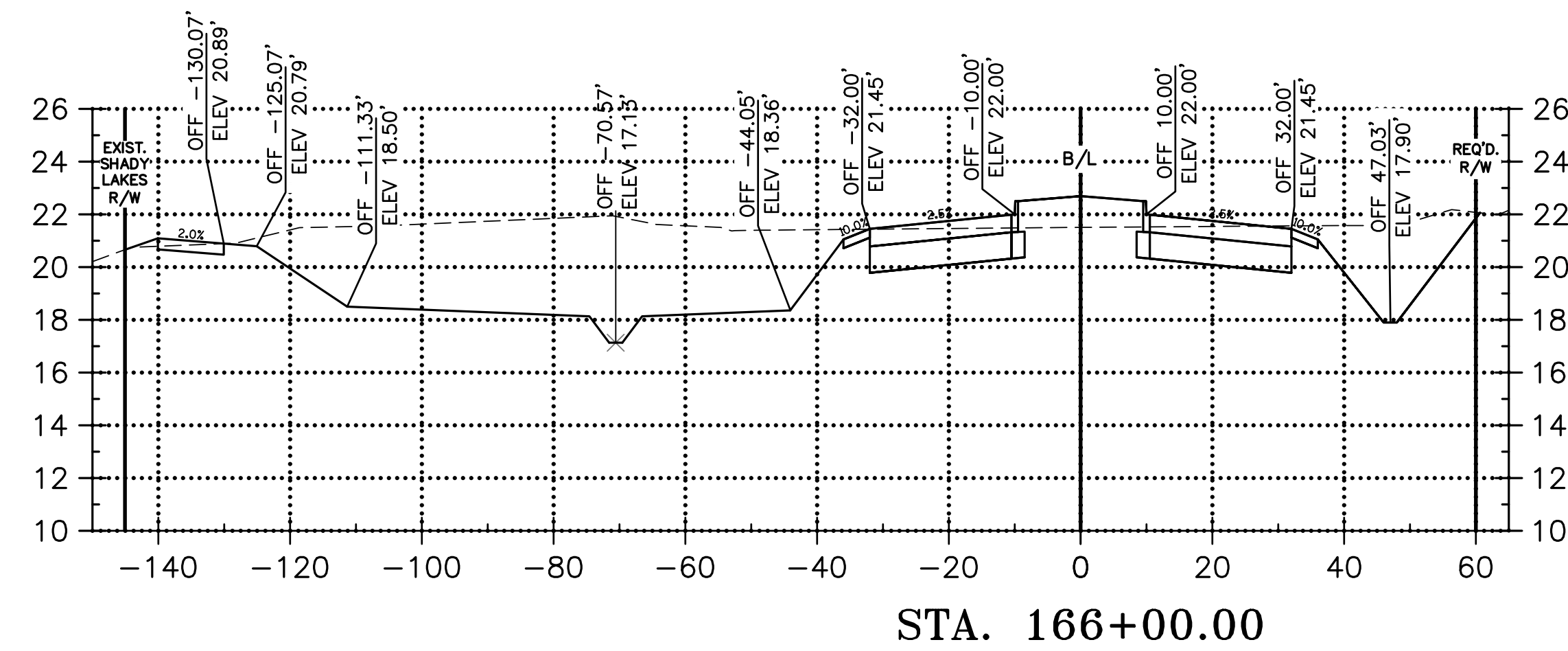






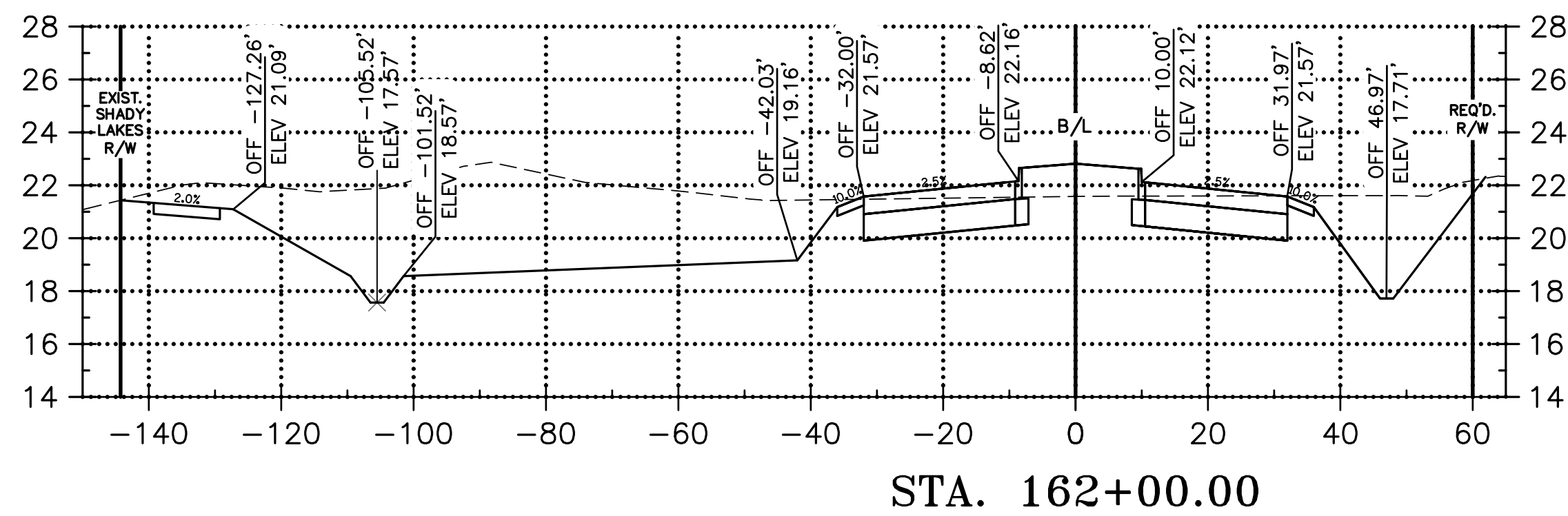
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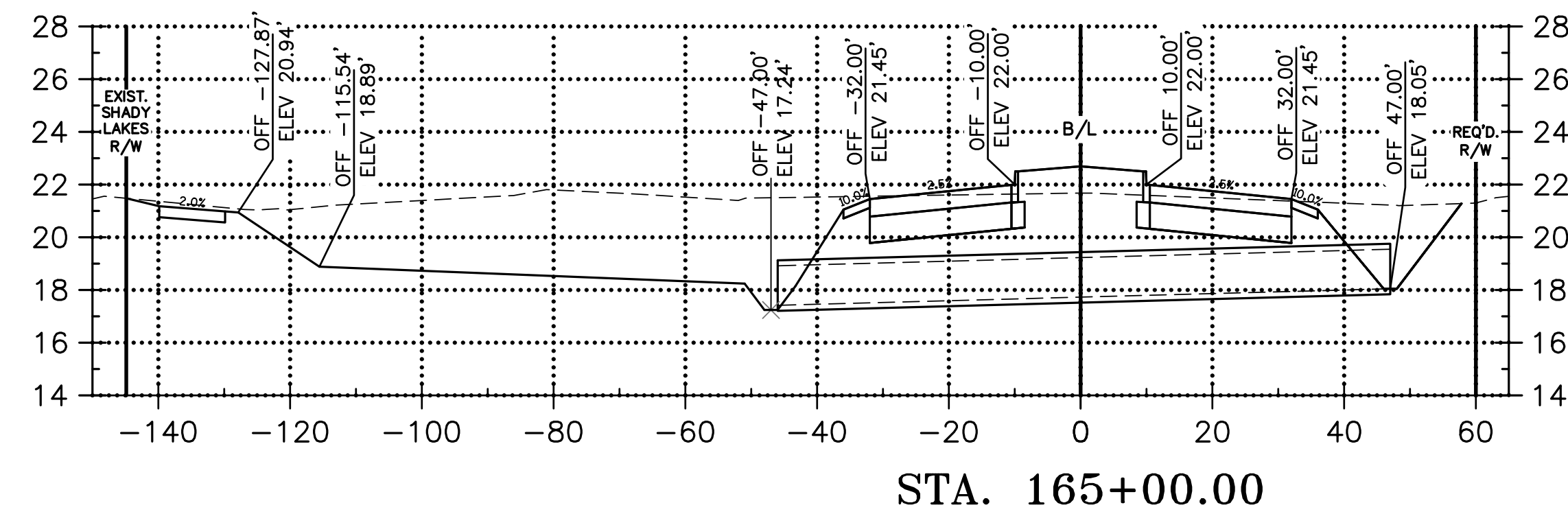
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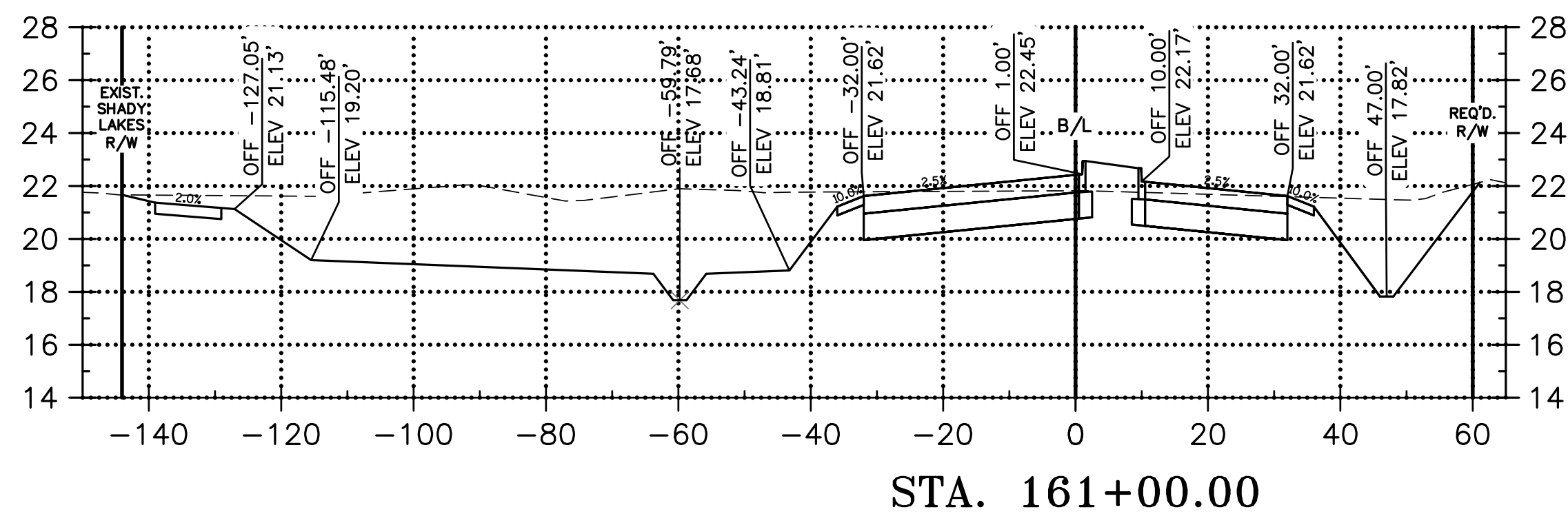
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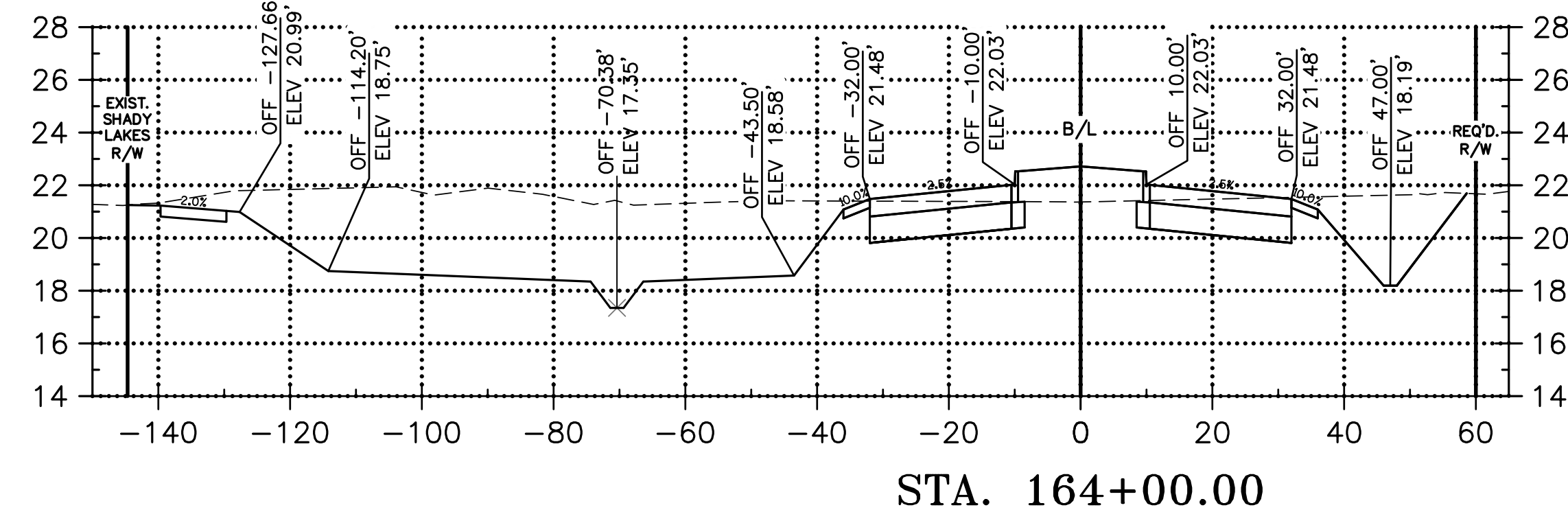
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FILL: 76.85 C.Y.

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LA 70113

DESIGNED	ATL
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DATE	04/29/21
SHEET	414

NO.	DATE	REVISION DESCRIPTION	BY

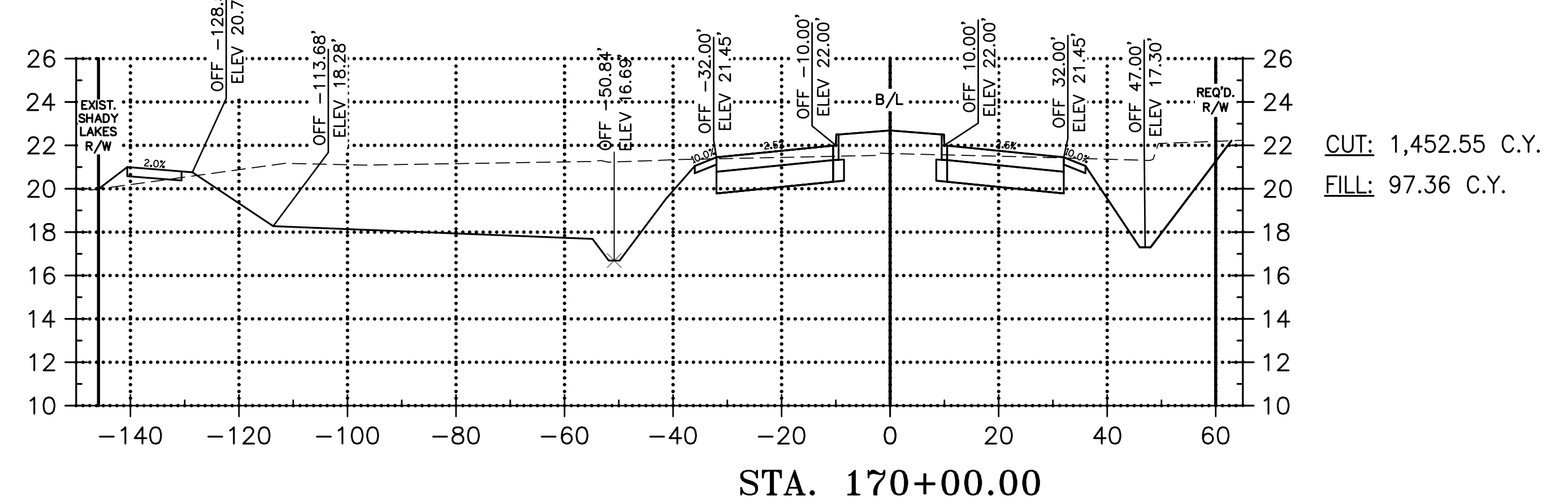
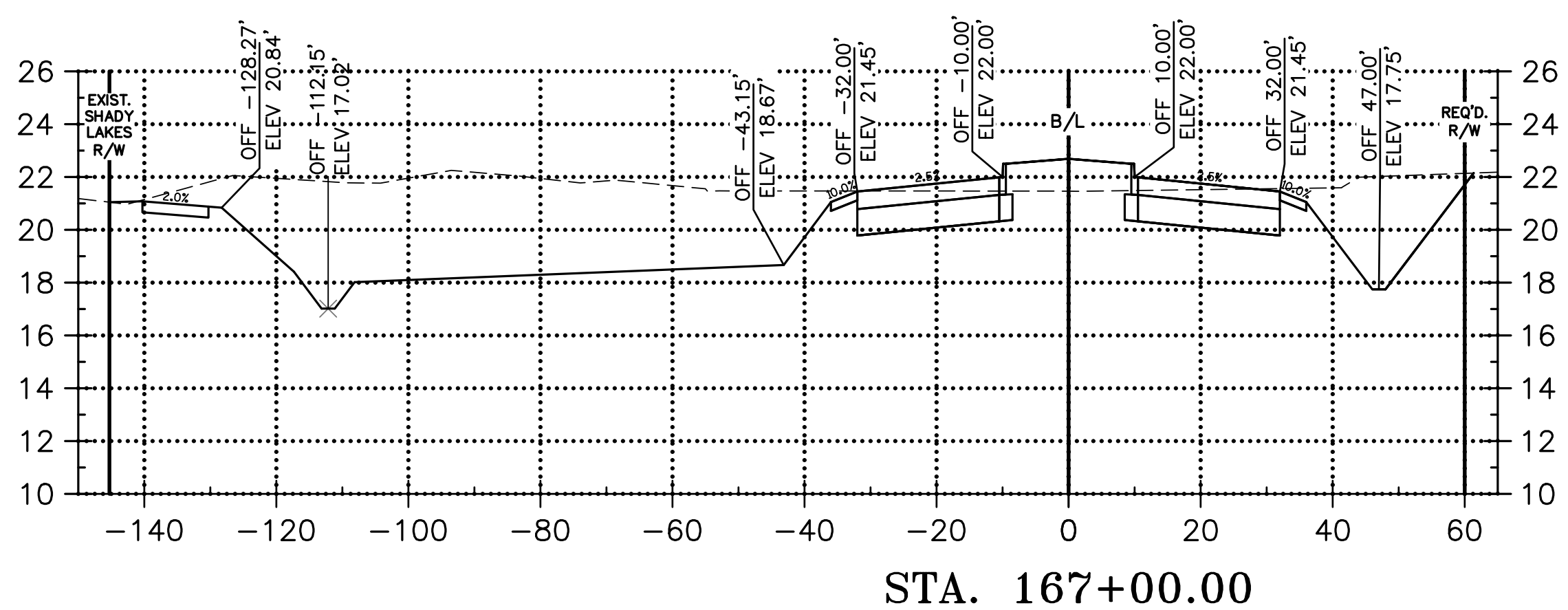
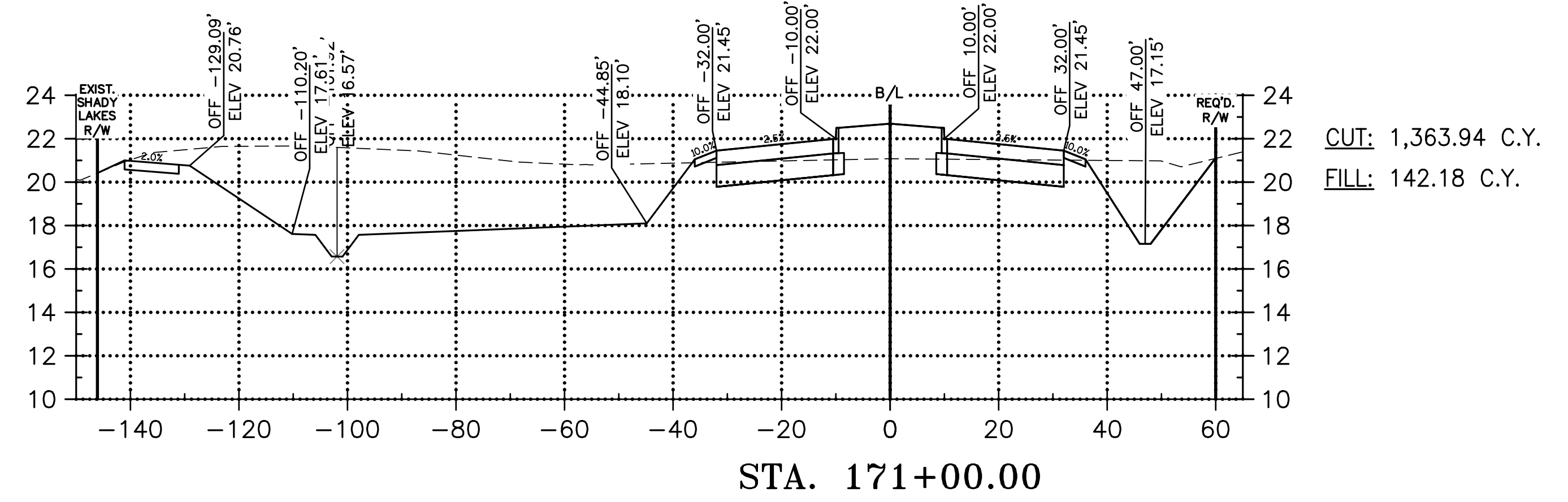
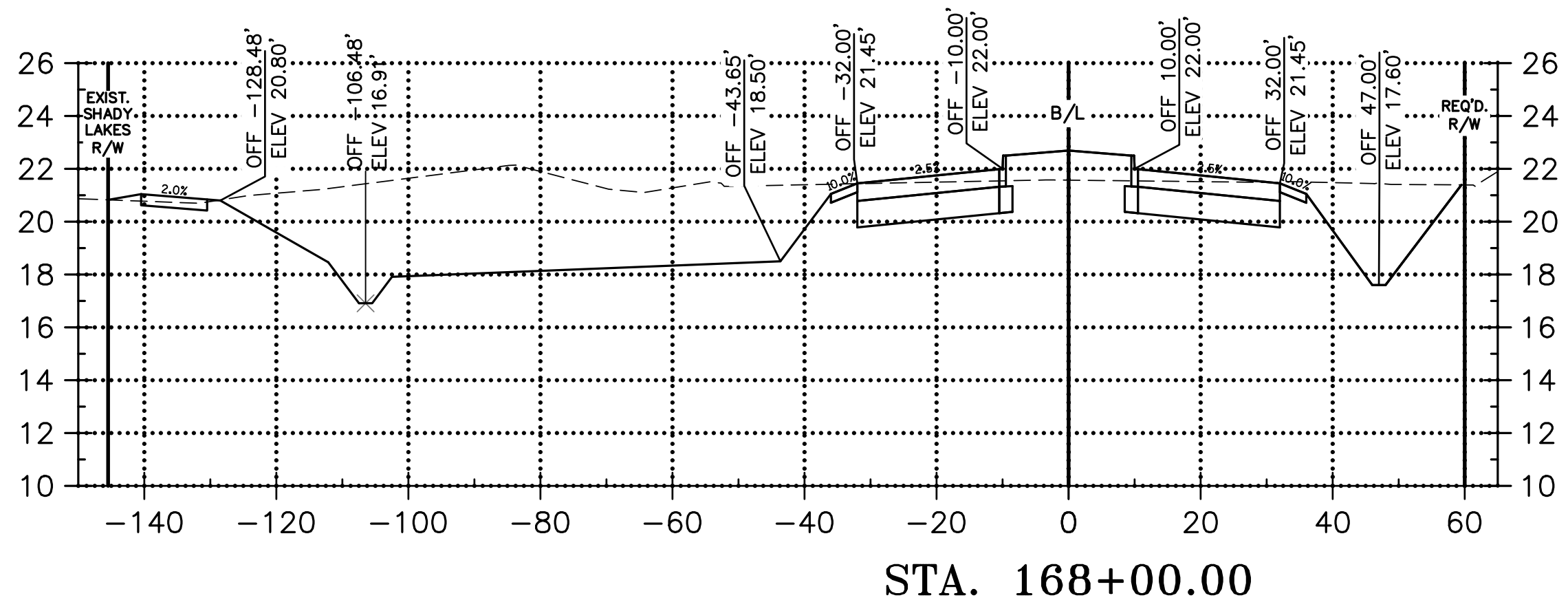
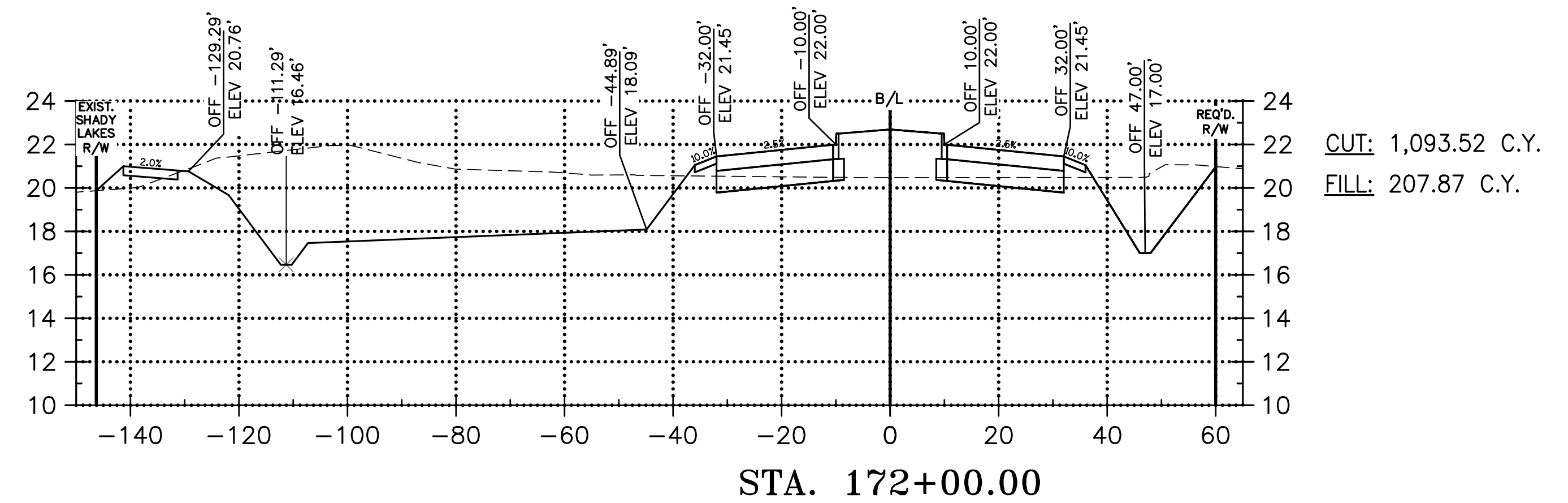
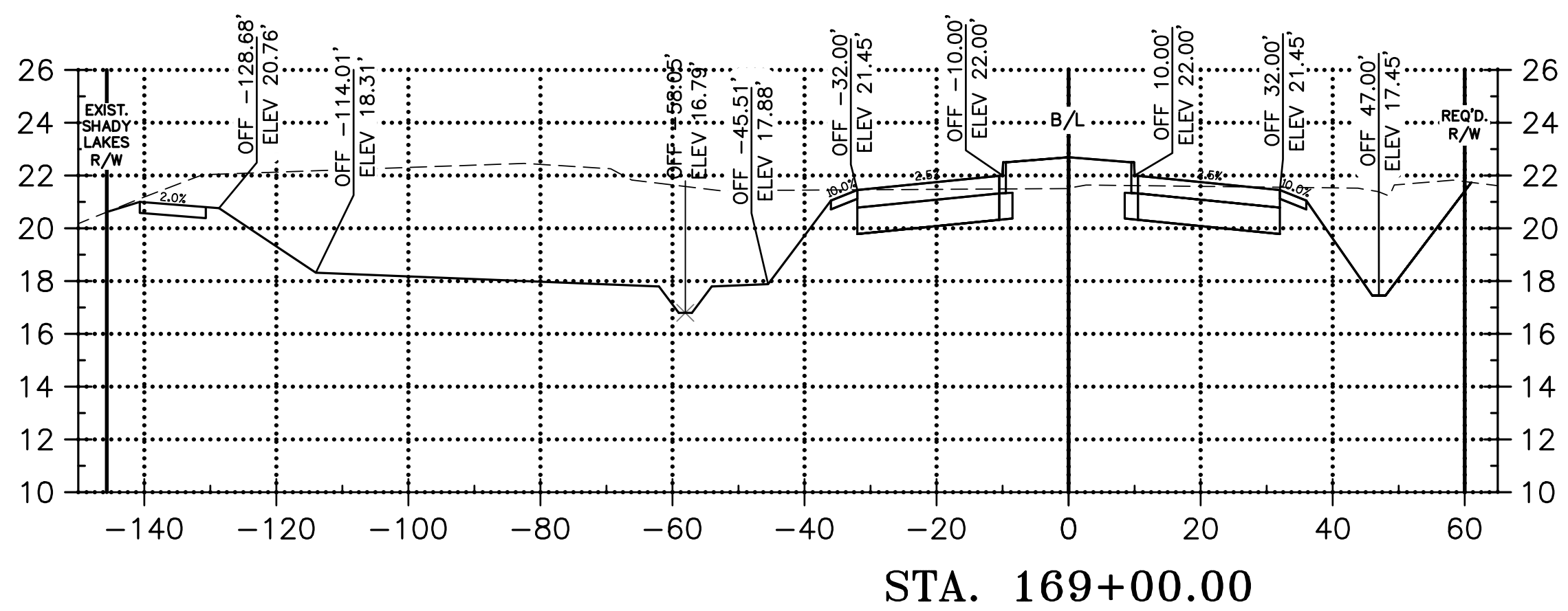
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CROSS SECTIONS**  
LA 1077/LA 21 CONNECTOR ROAD

Project Number:  
RCLC No: 714-08



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Sheet Number:





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DATE	04/29/21	SHEET

NO.	DATE	REVISION DESCRIPTION	BY

**CONNECTOR ROAD  
CROSS SECTIONS**  
LA 1077/LA 21 CONNECTOR ROAD

Project Number:  
RCLC No: 714-08

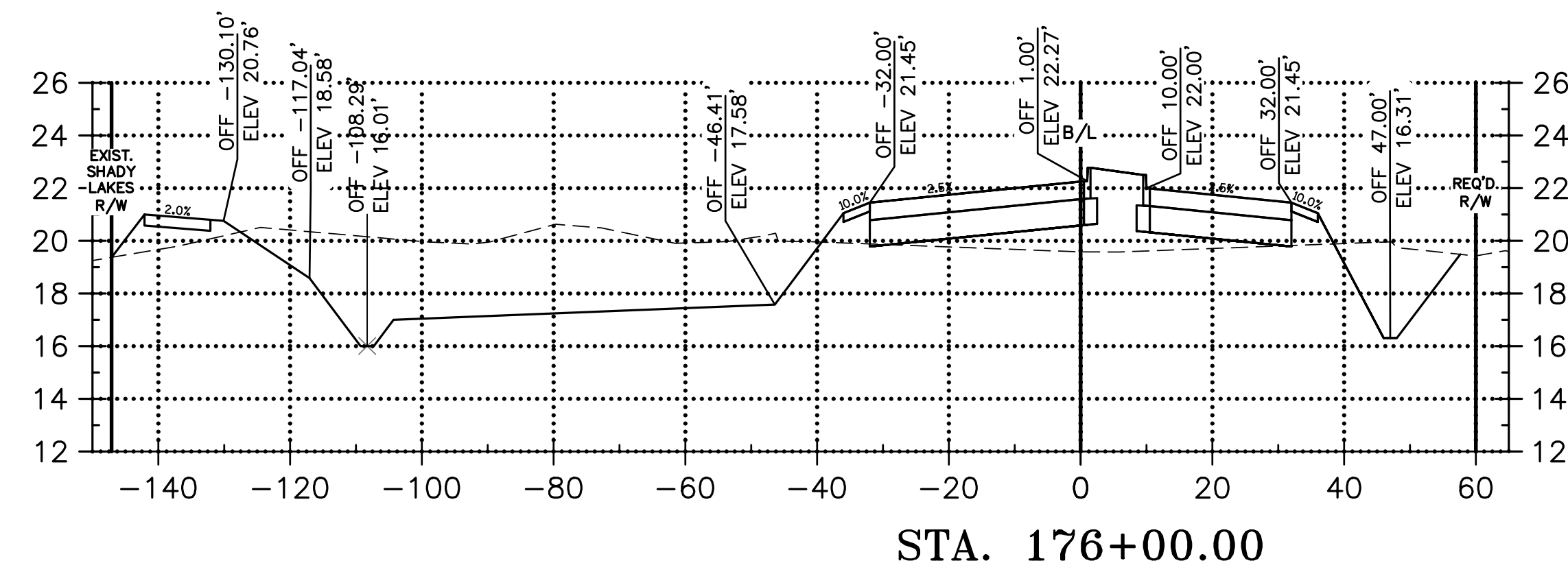
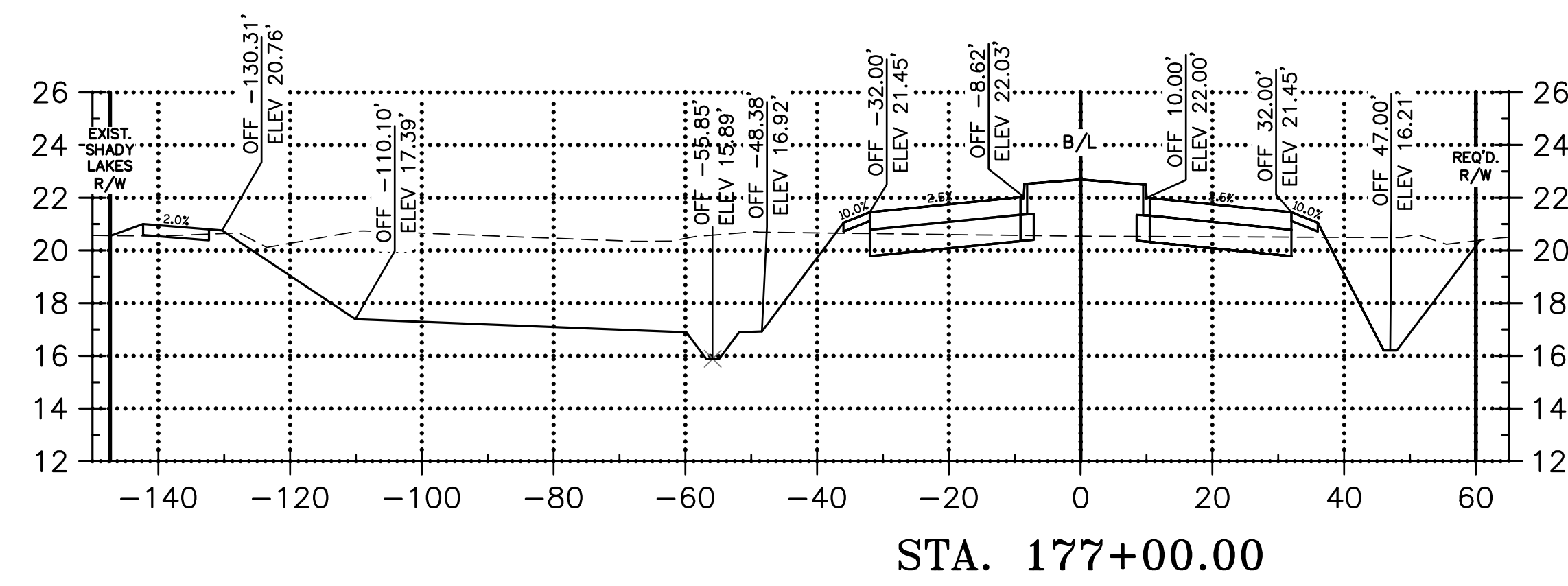
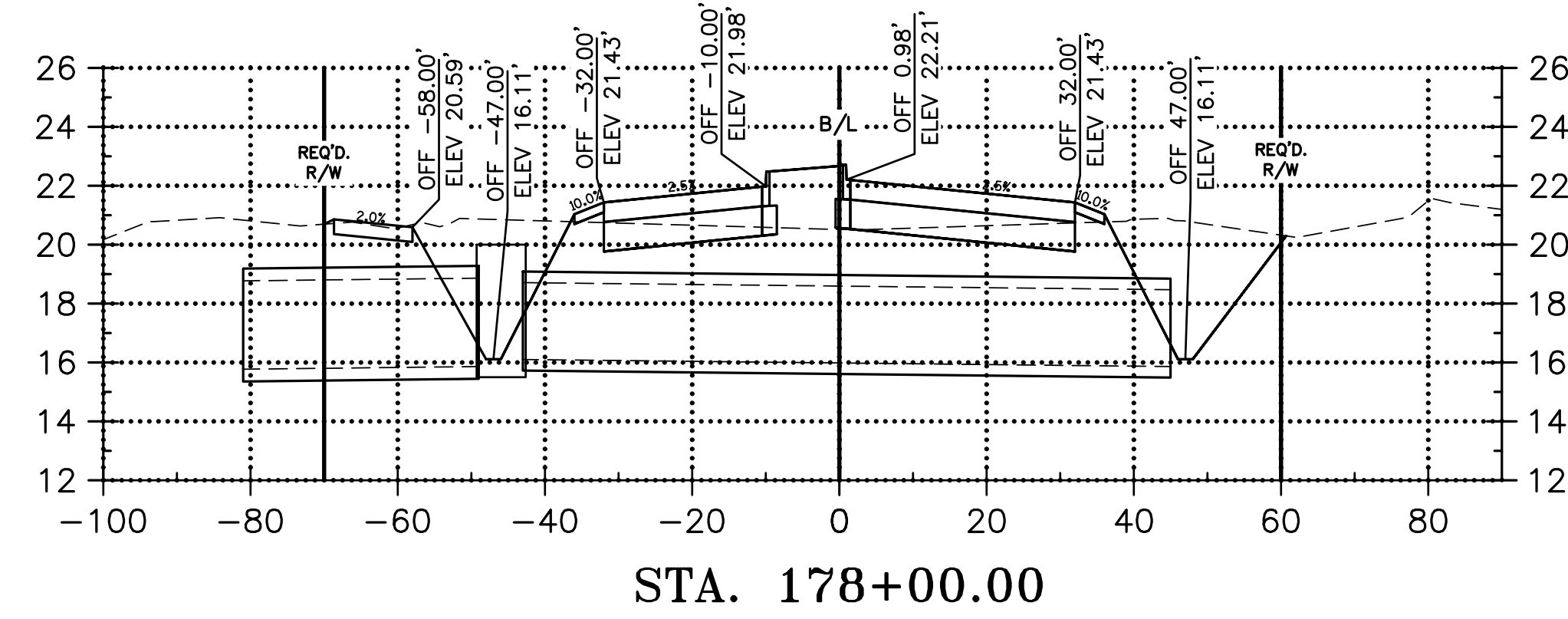
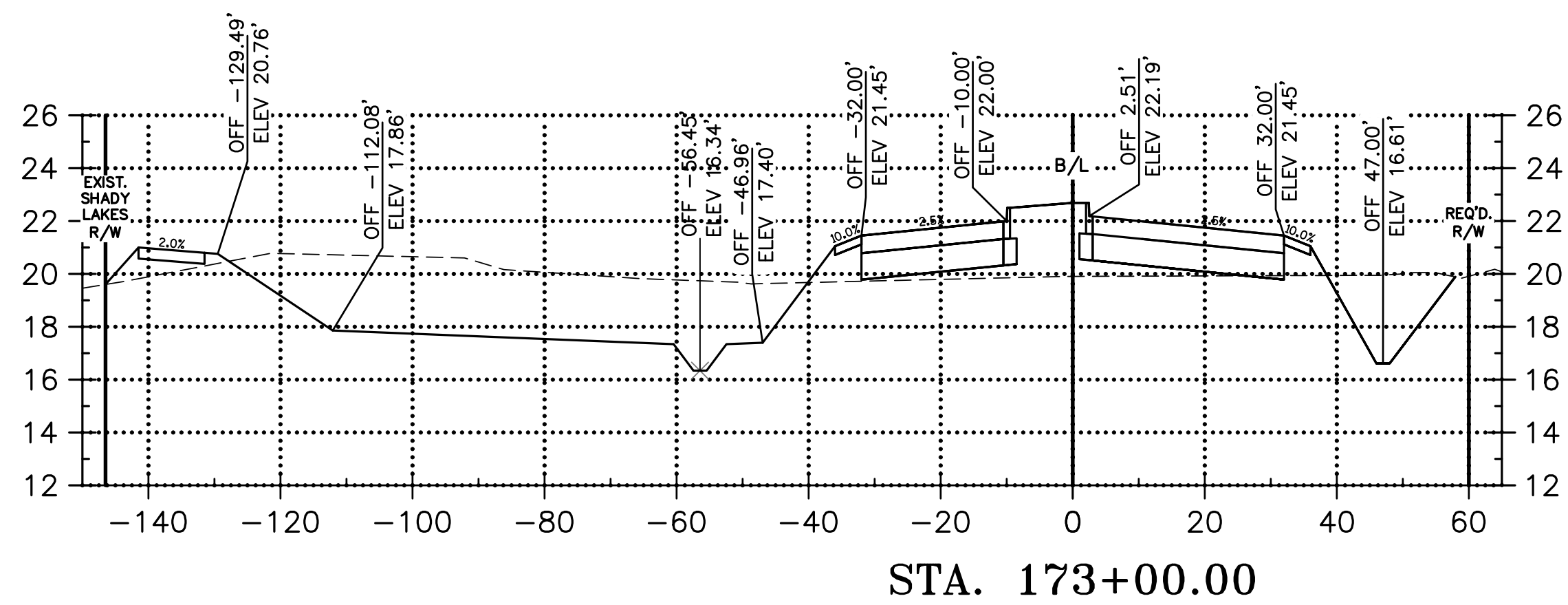
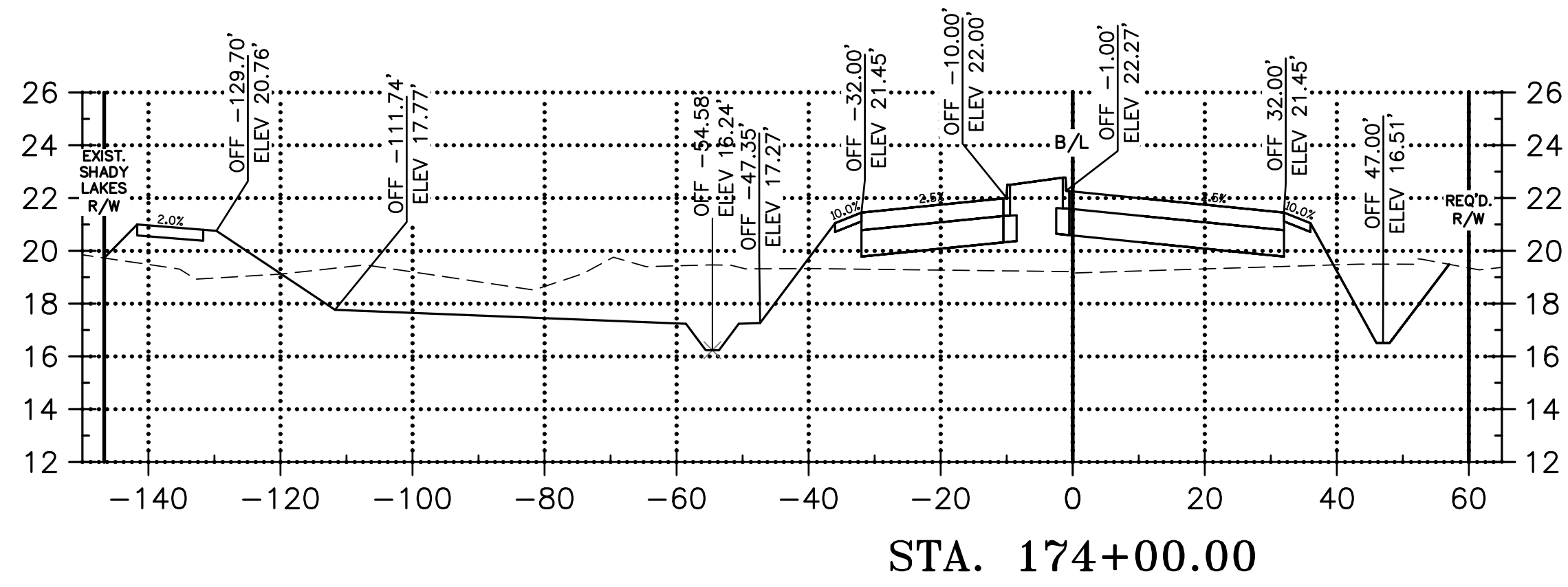
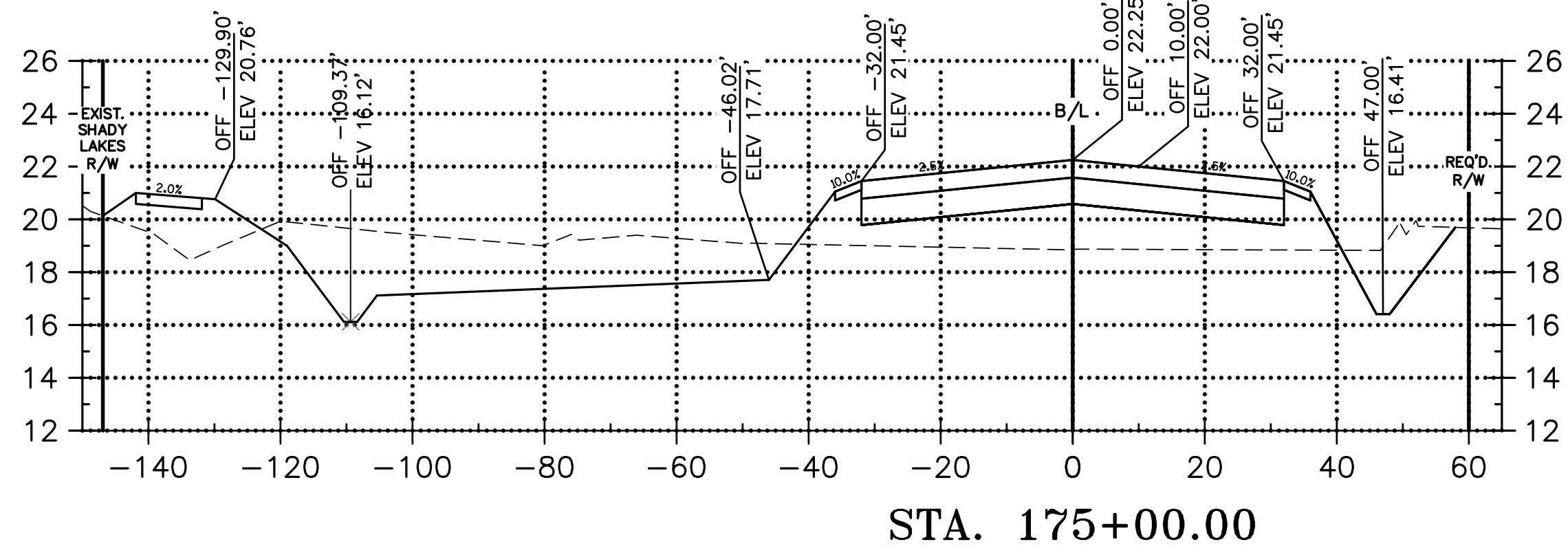


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**415**



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DATE	04/29/21
SHEET	416

NO.	DATE	REVISION DESCRIPTION

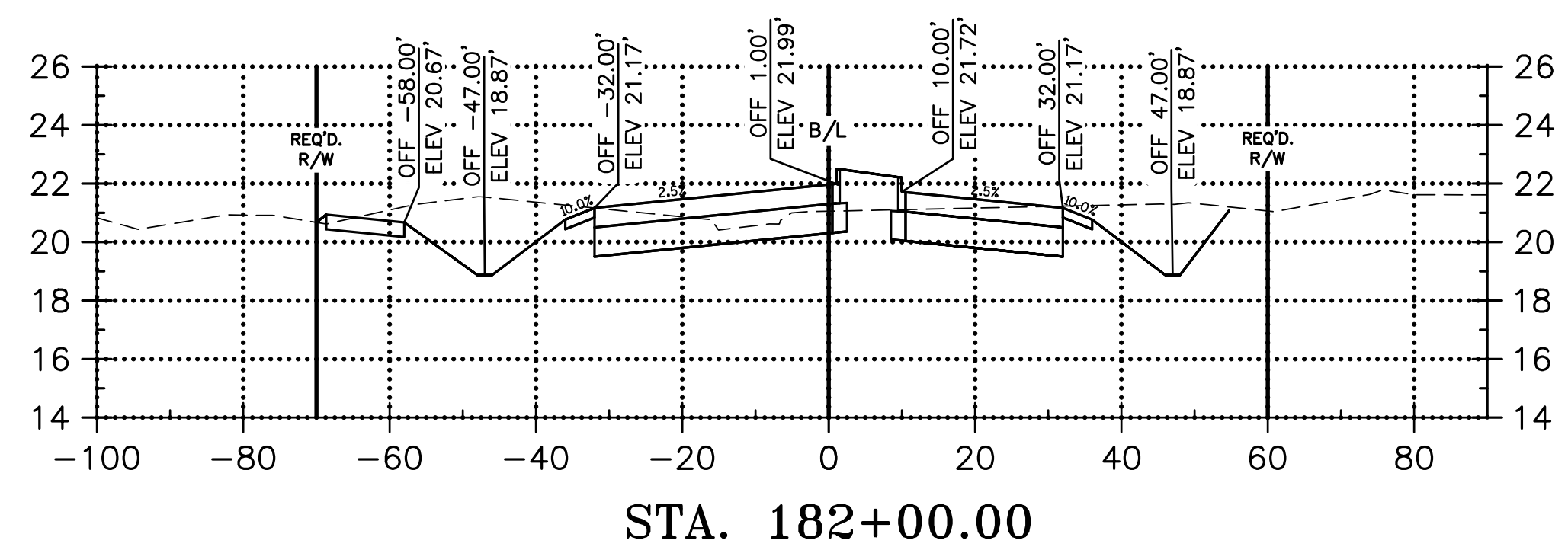
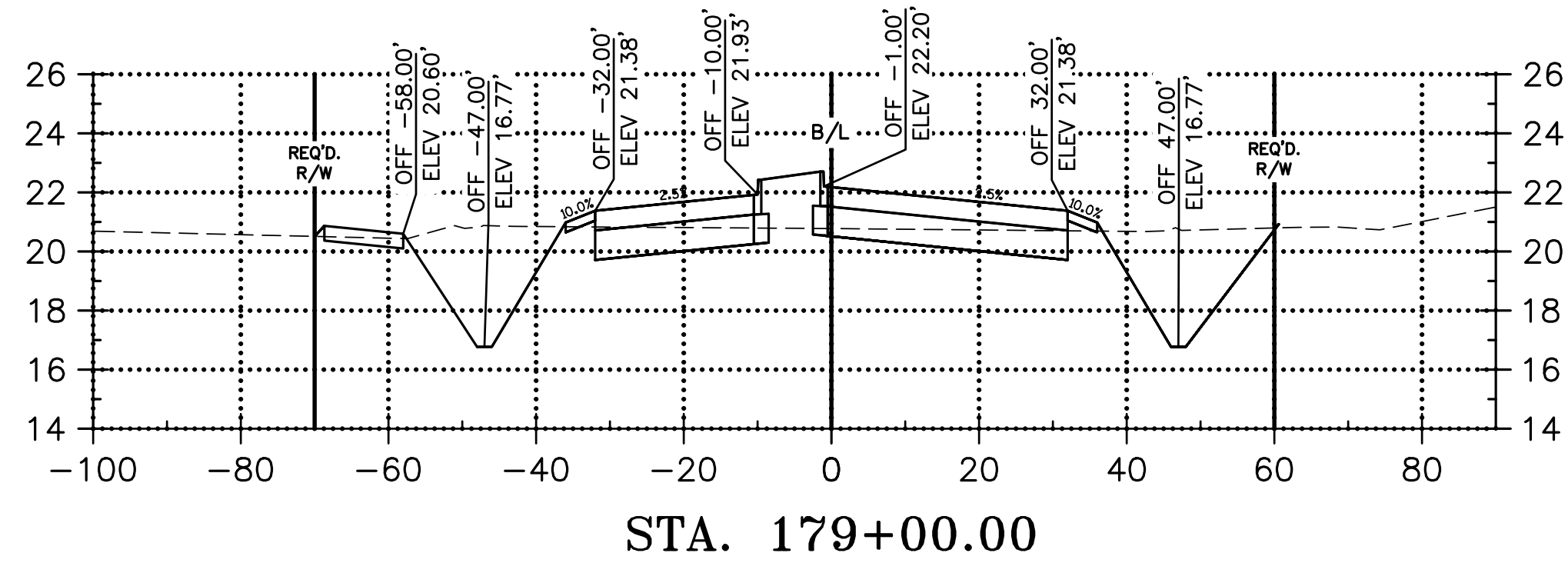
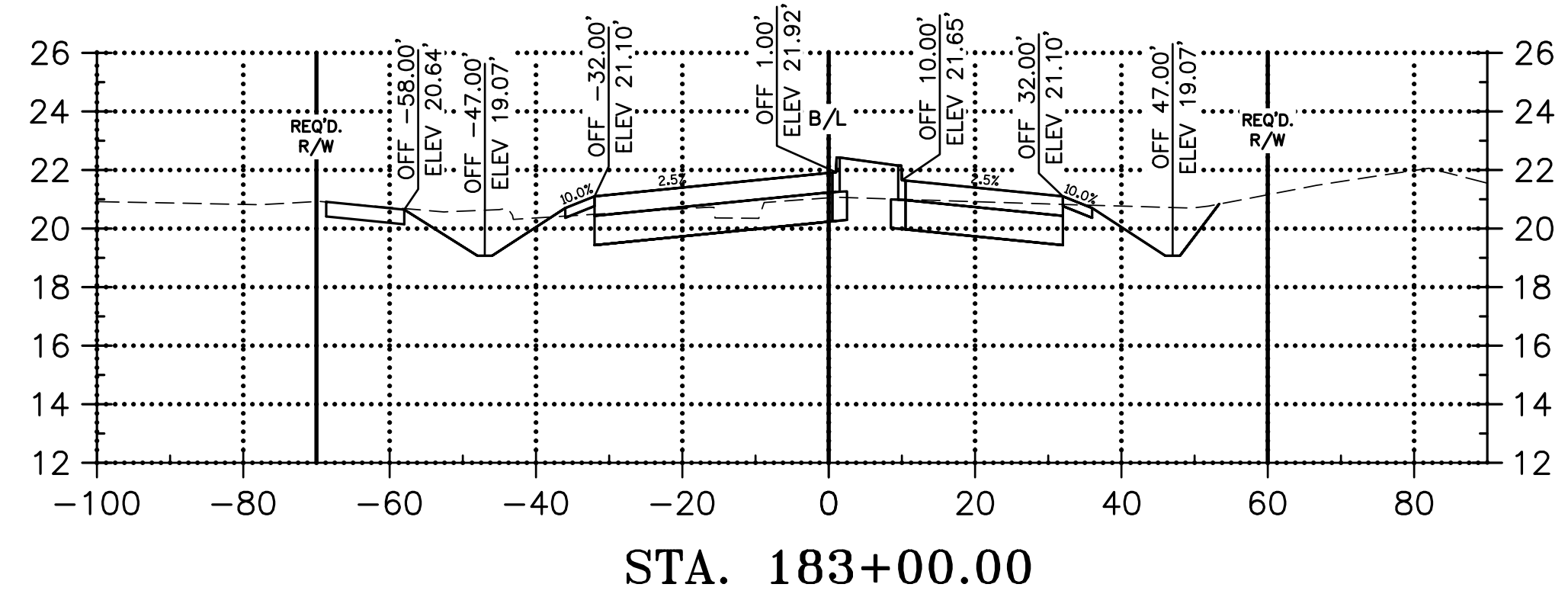
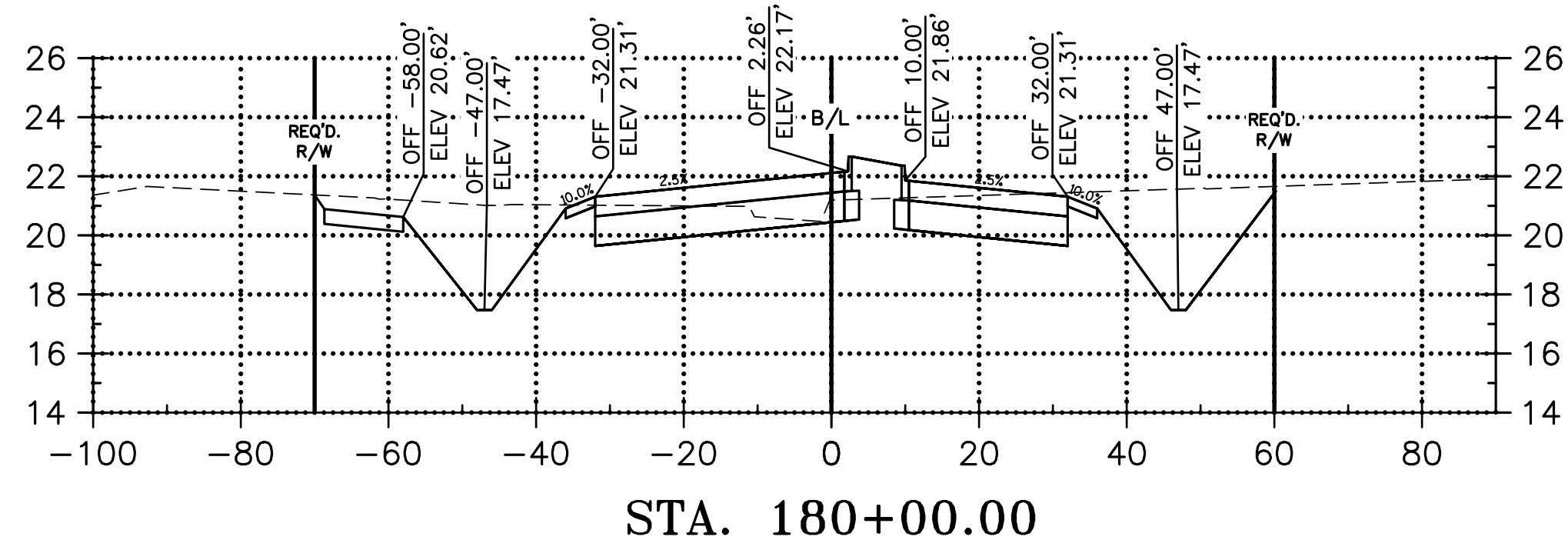
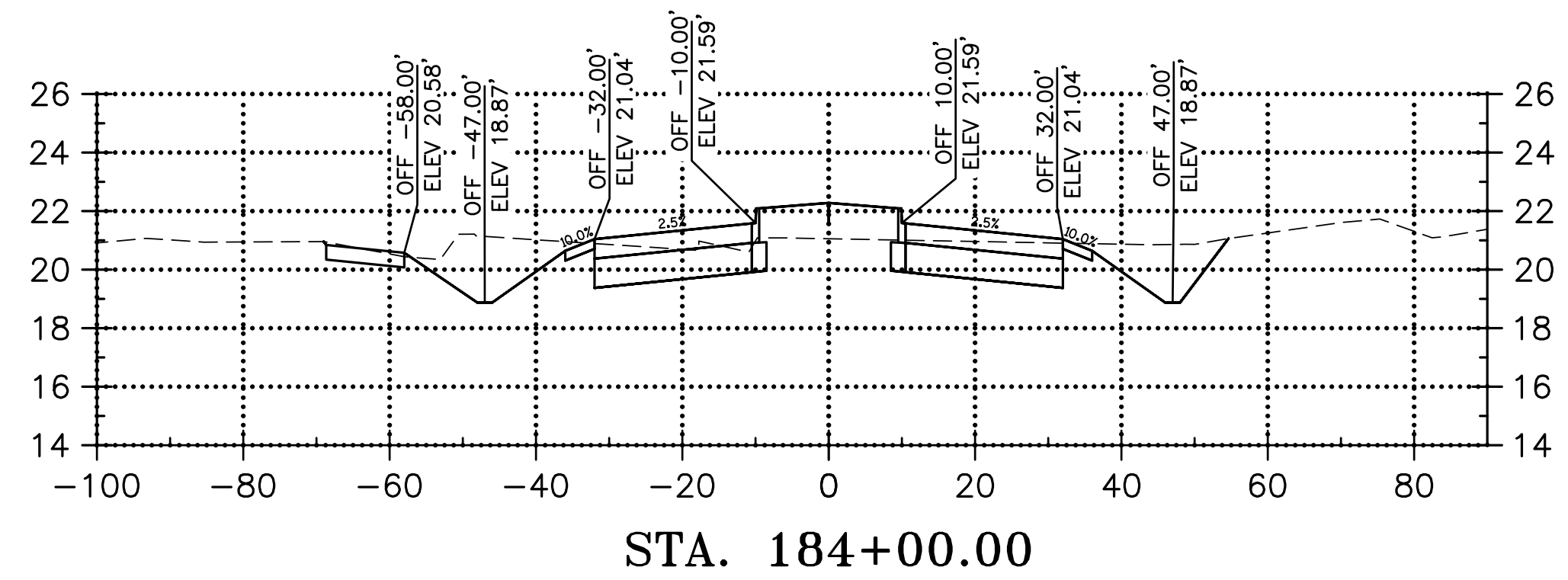
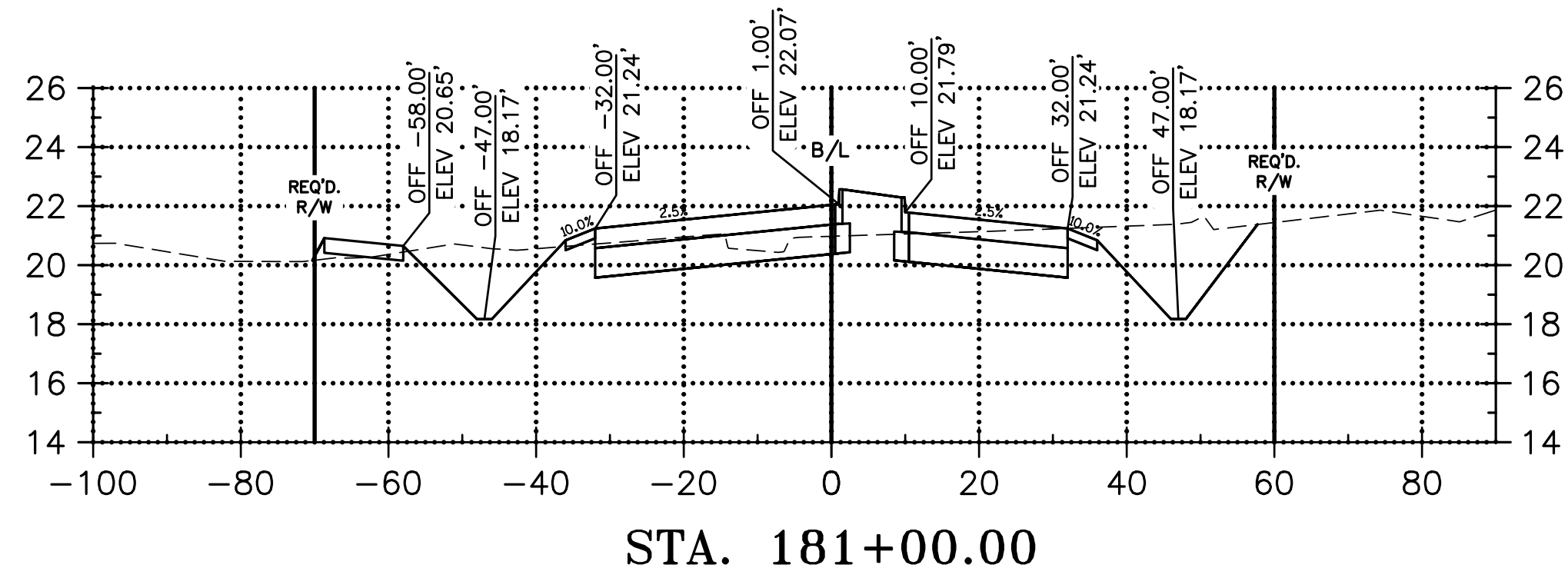
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CROSS SECTIONS**  
LA 1077/LA 21 CONNECTOR ROAD

Project Number:  
RCLC No: 714-08



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**CONNECTOR ROAD  
CROSS SECTIONS**  
LA 1077/LA 21 CONNECTOR ROAD

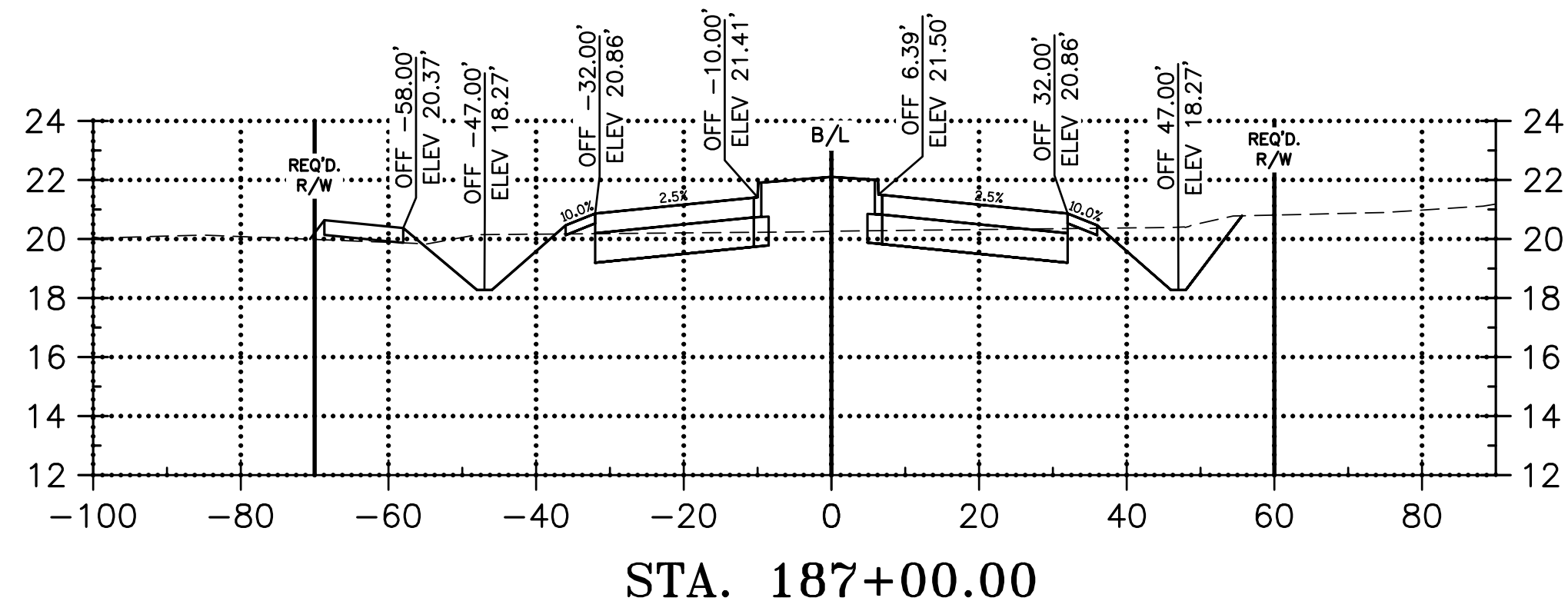
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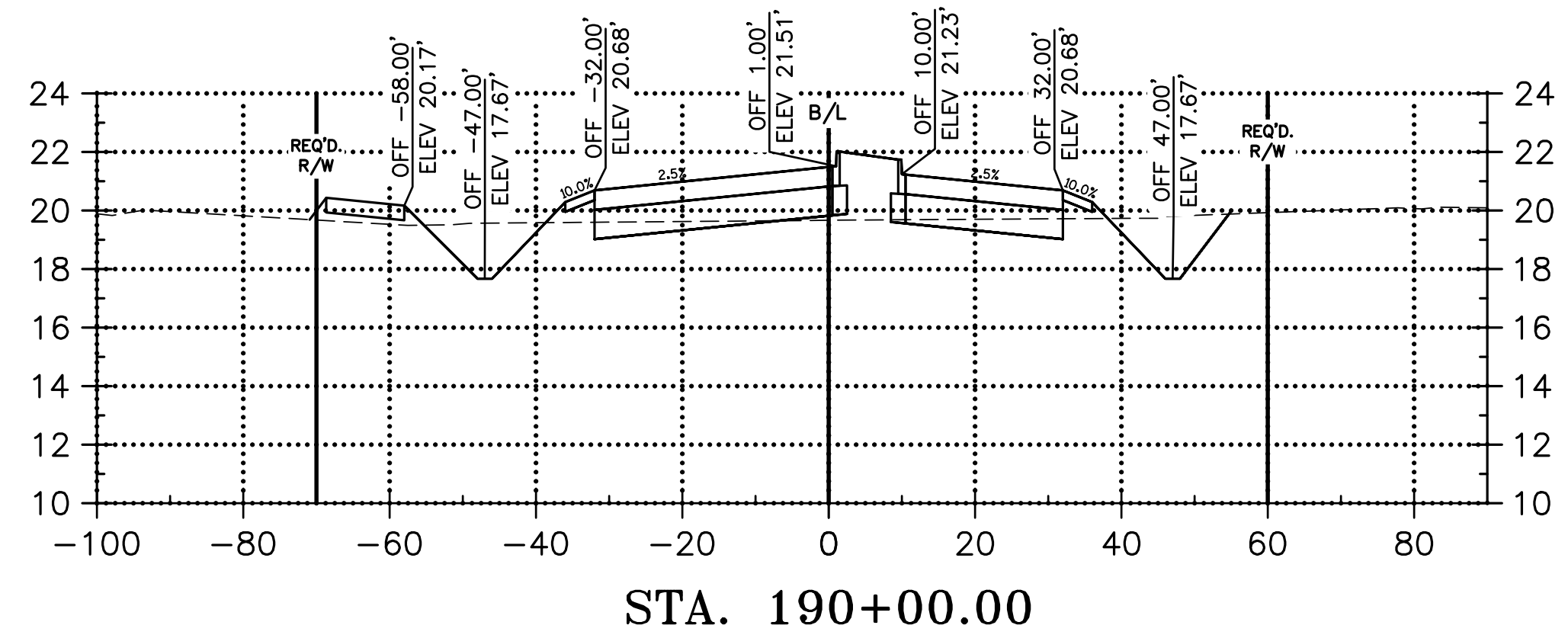
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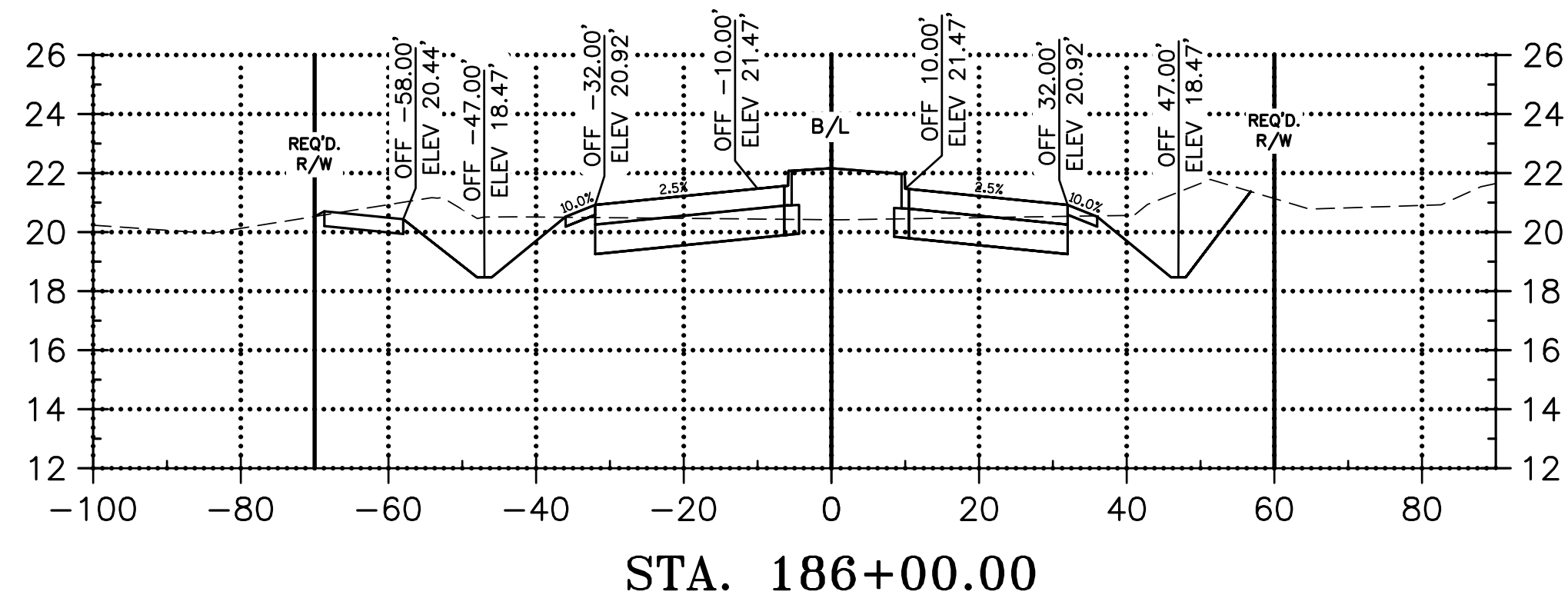
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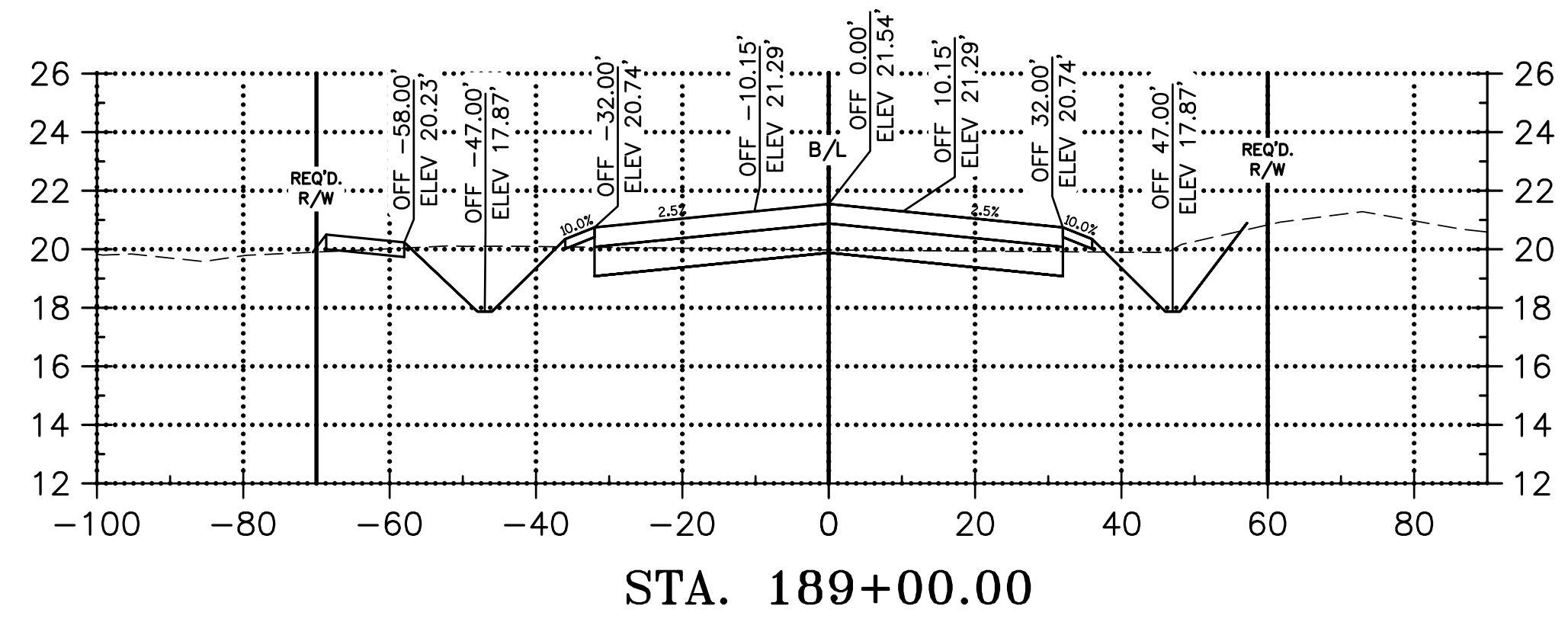
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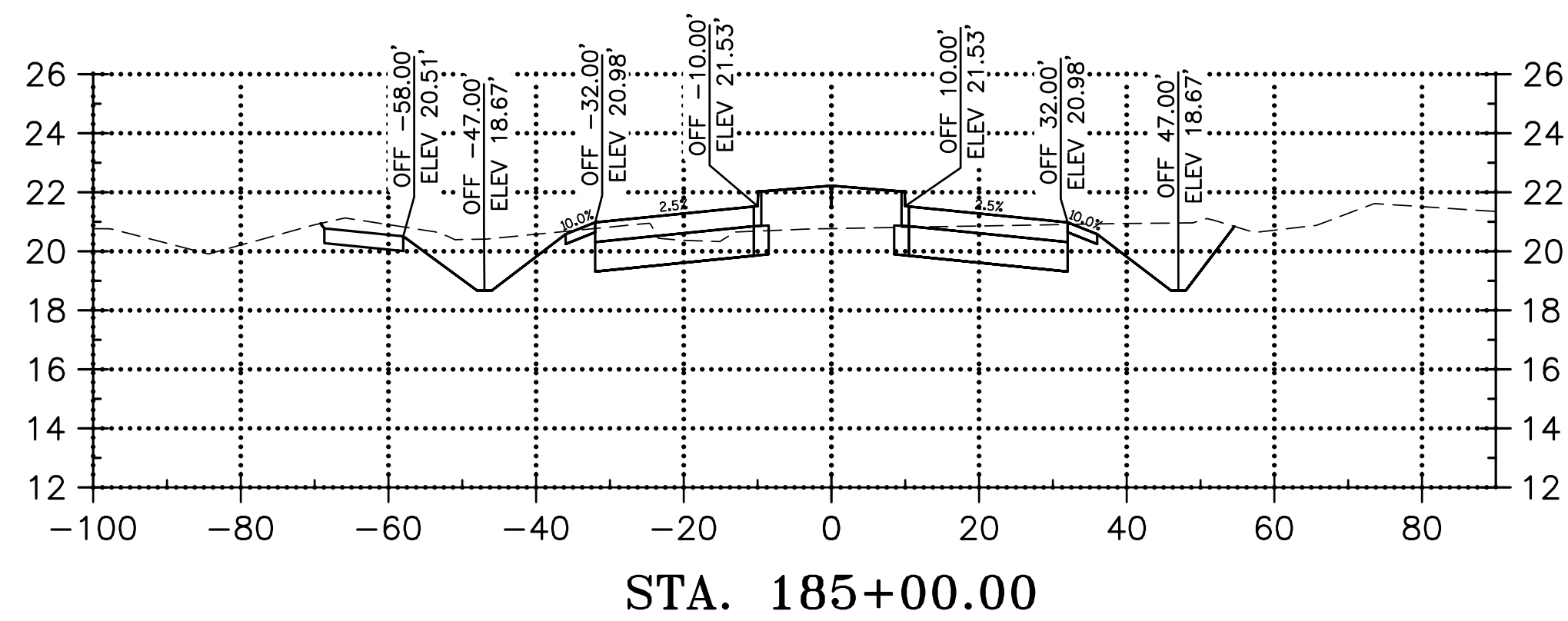
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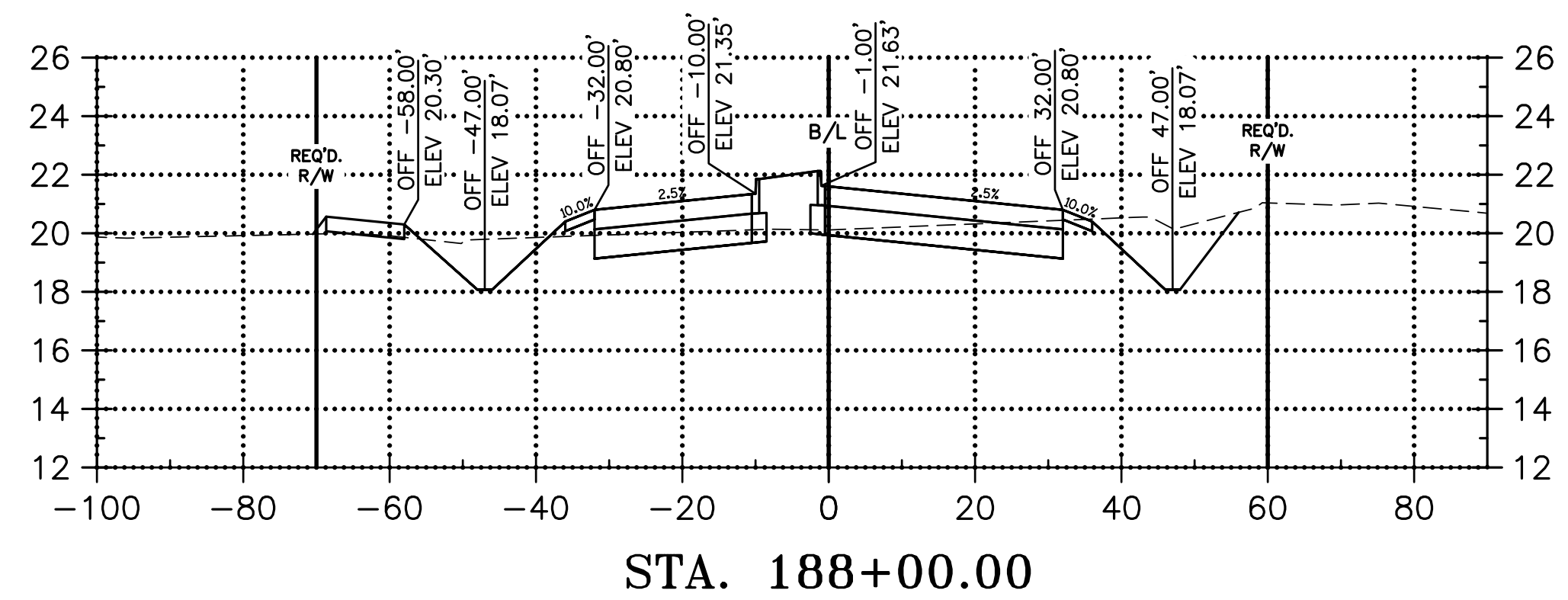
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FILL: 53.92 C.Y.



CUT: 428.19 C.Y.  
FILL: 91.77 C.Y.



CUT: 299.63 C.Y.  
FILL: 36.28 C.Y.



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CONNECTOR ROAD  
CROSS SECTIONS  
LA 1077/LA 21 CONNECTOR ROAD

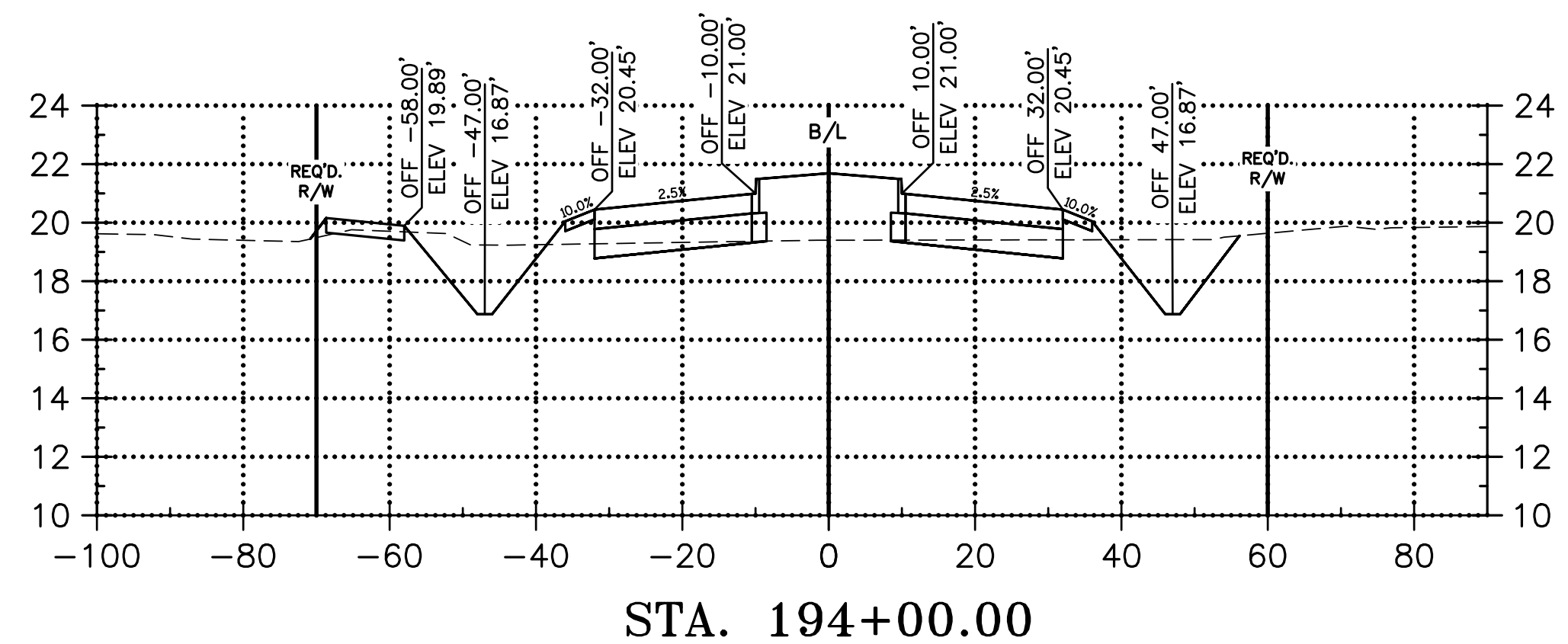
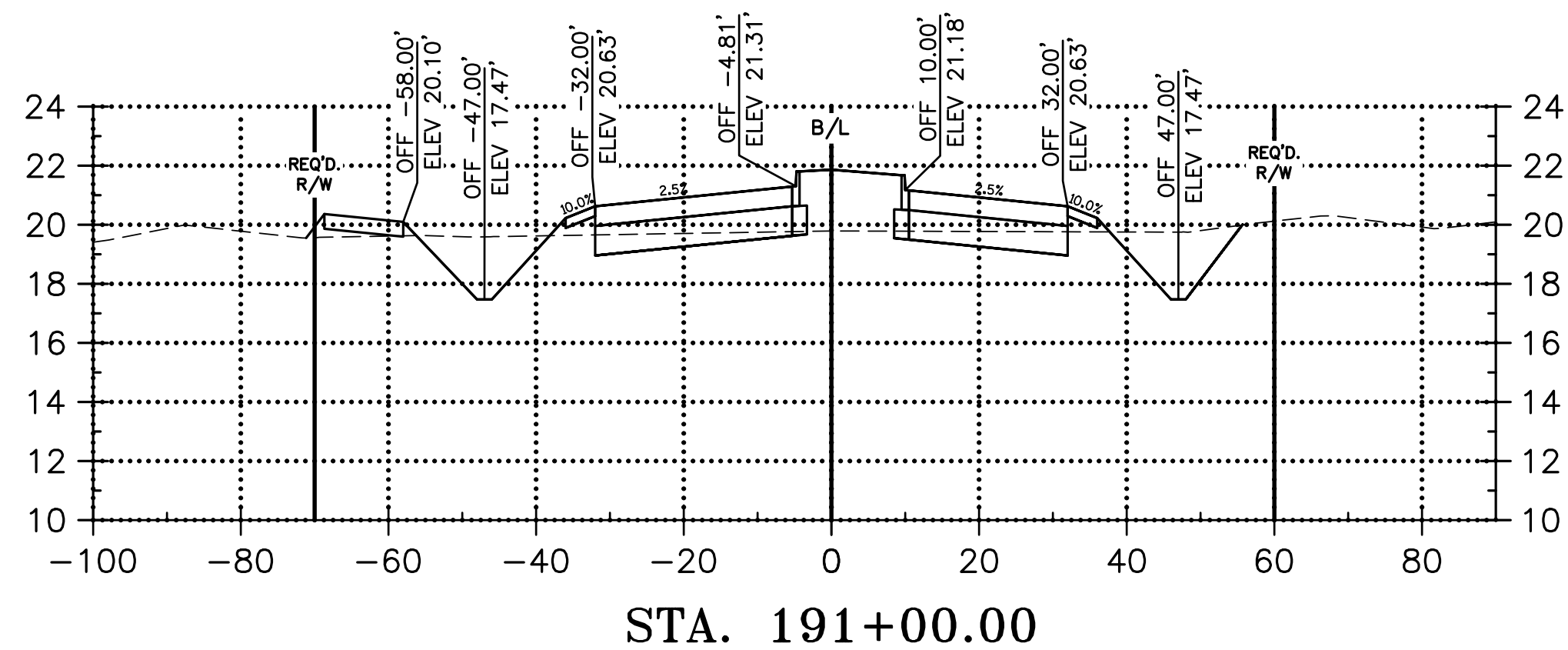
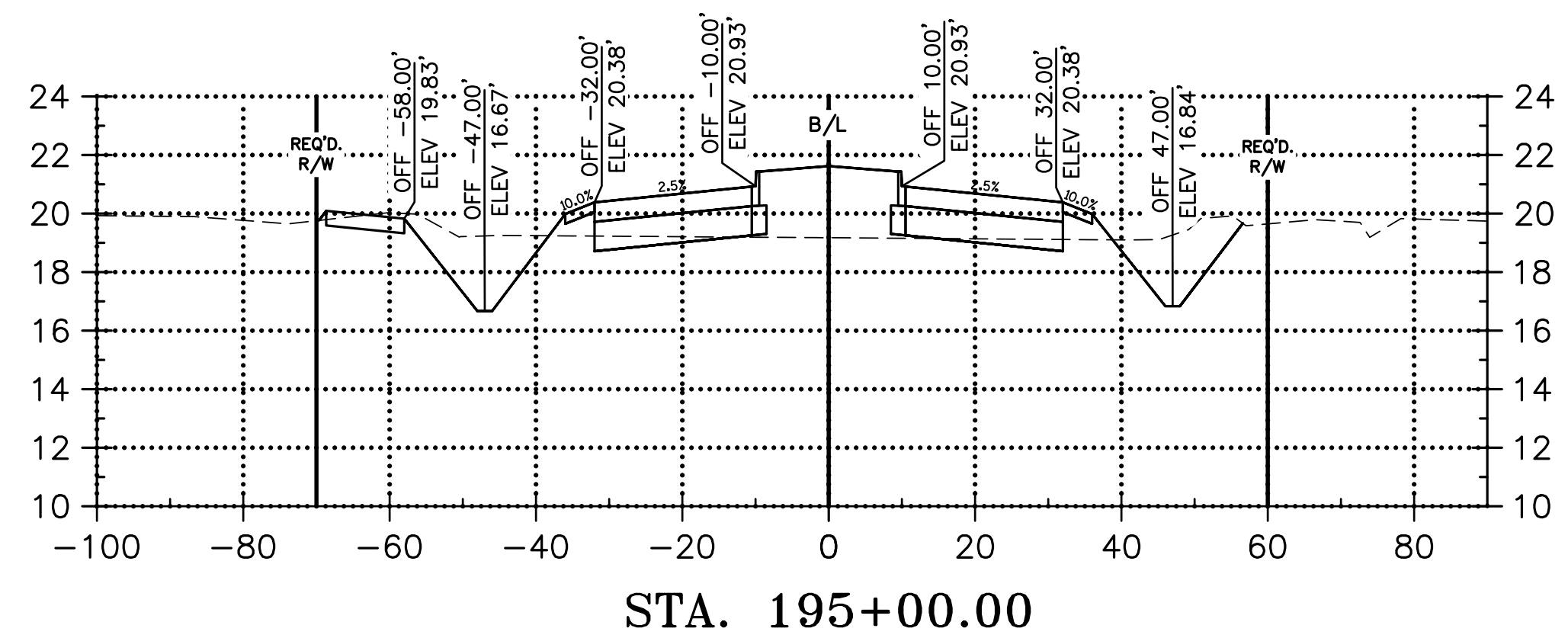
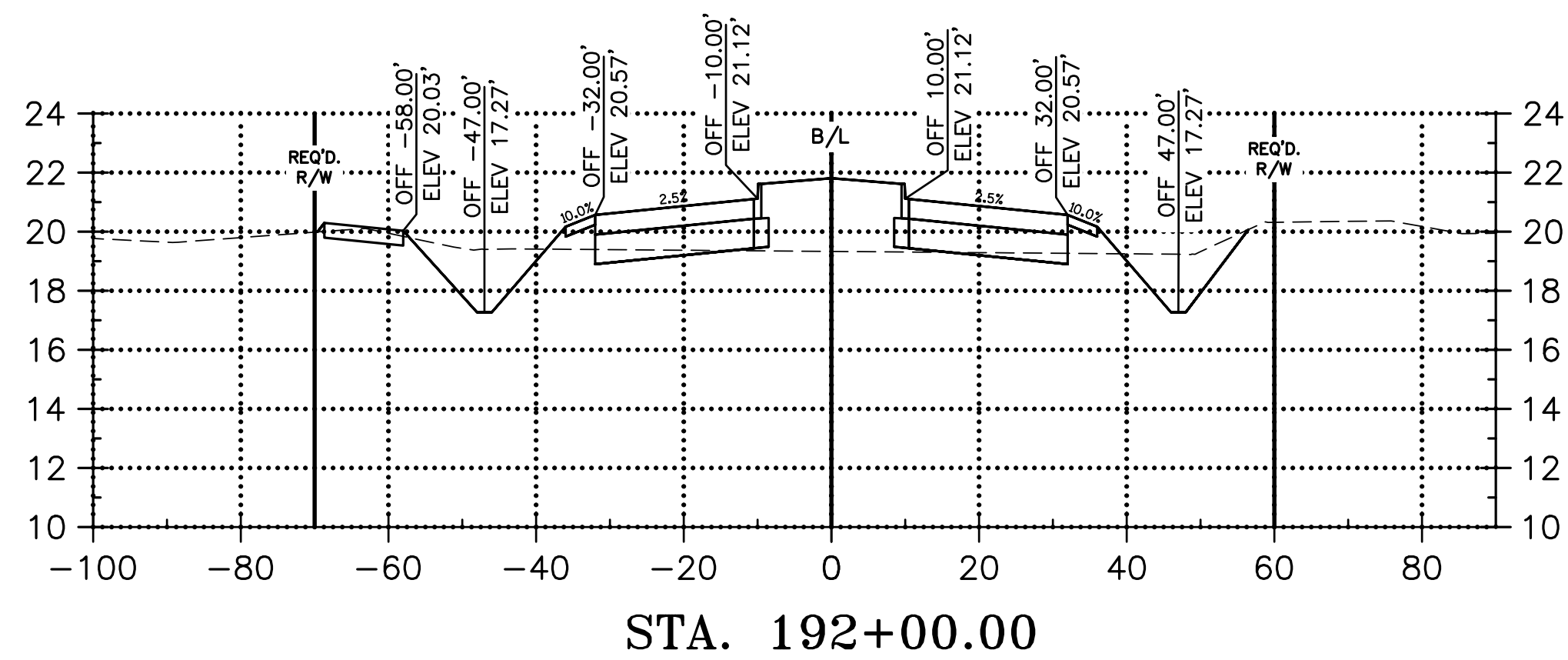
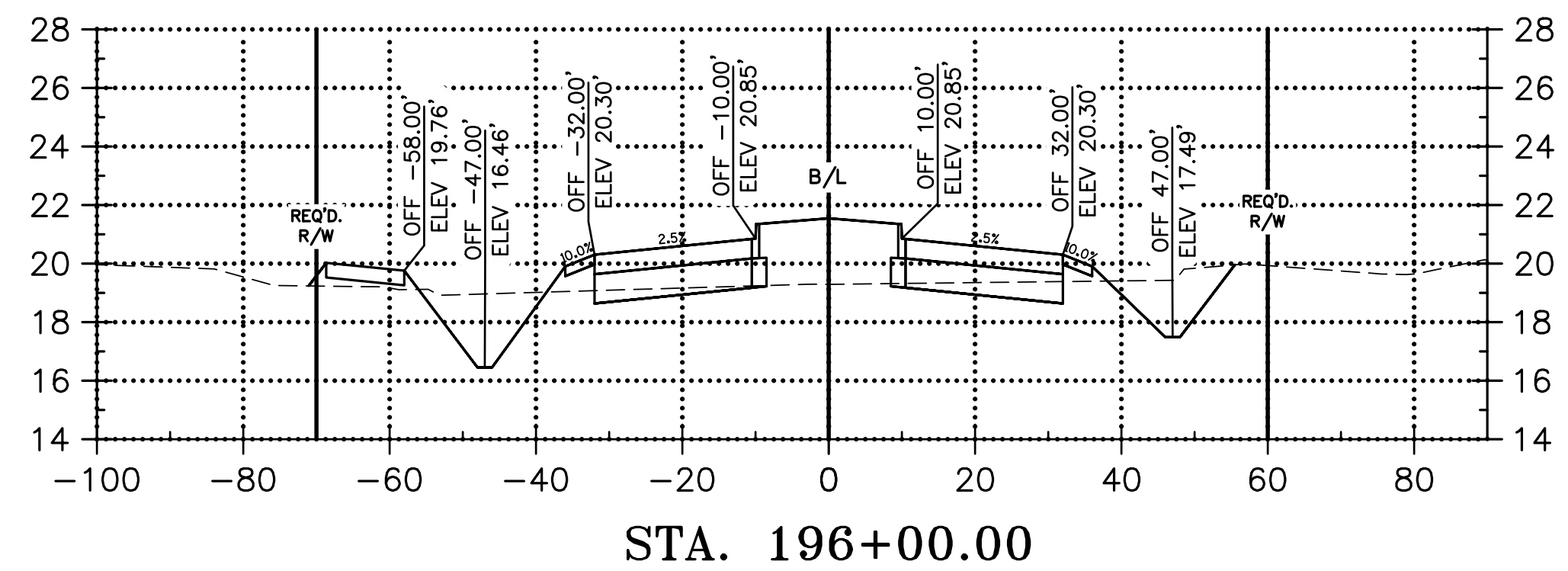
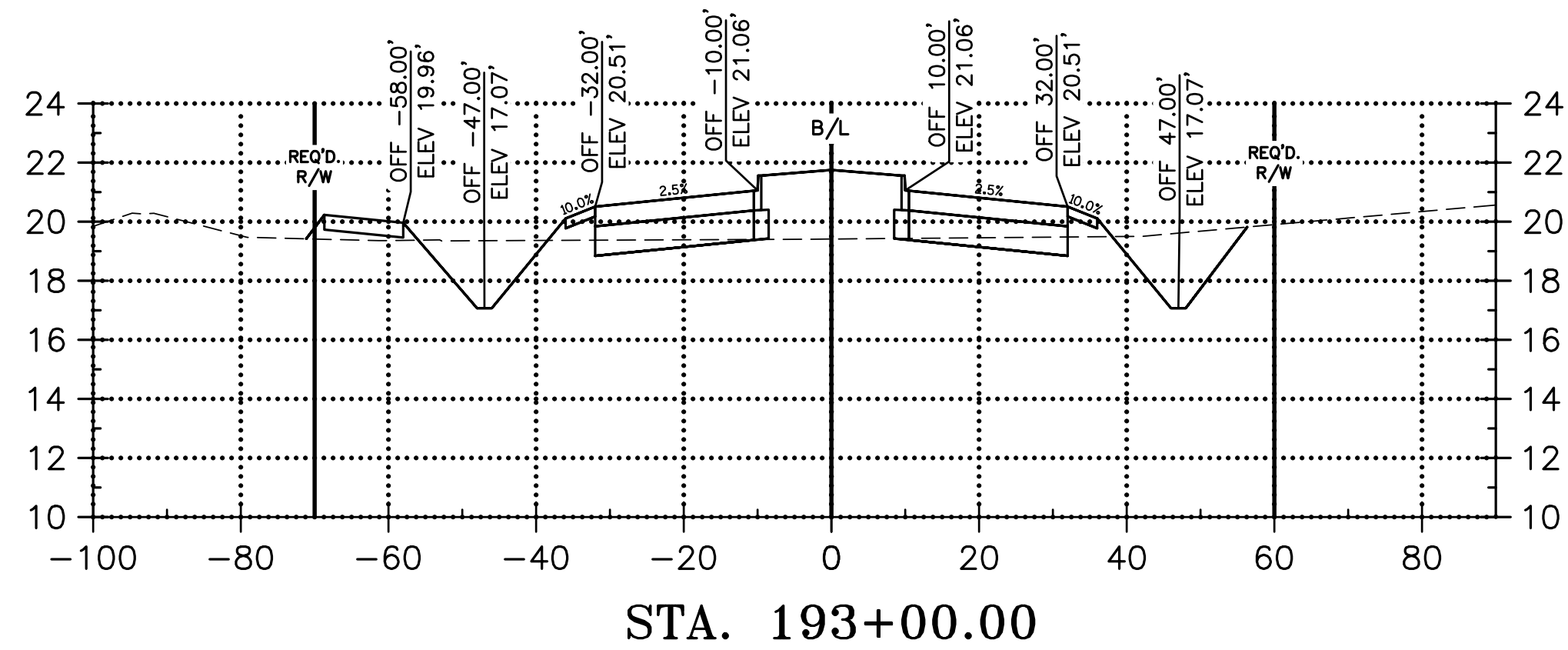
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RCLC No: 714-08



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DESIGNED	ATL	DATE	04/29/21
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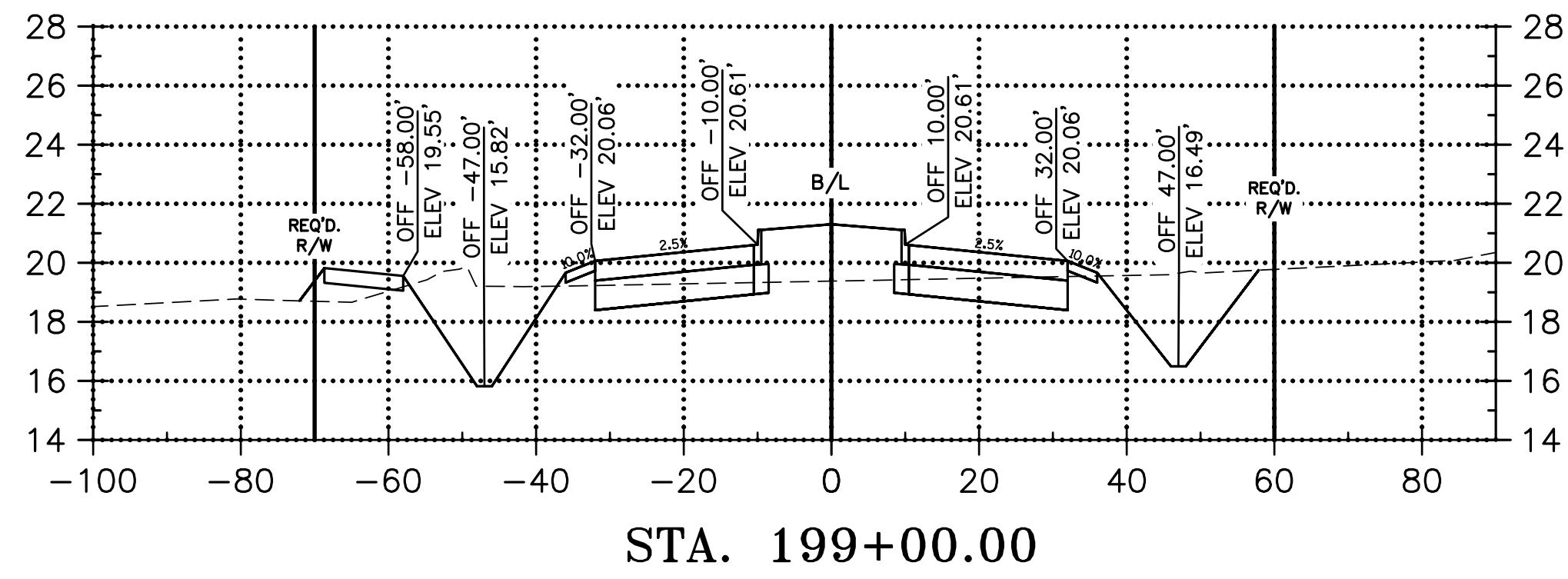
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LA 1077/LA 21 CONNECTOR ROAD

Project Number:  
RCLC No: 714-08

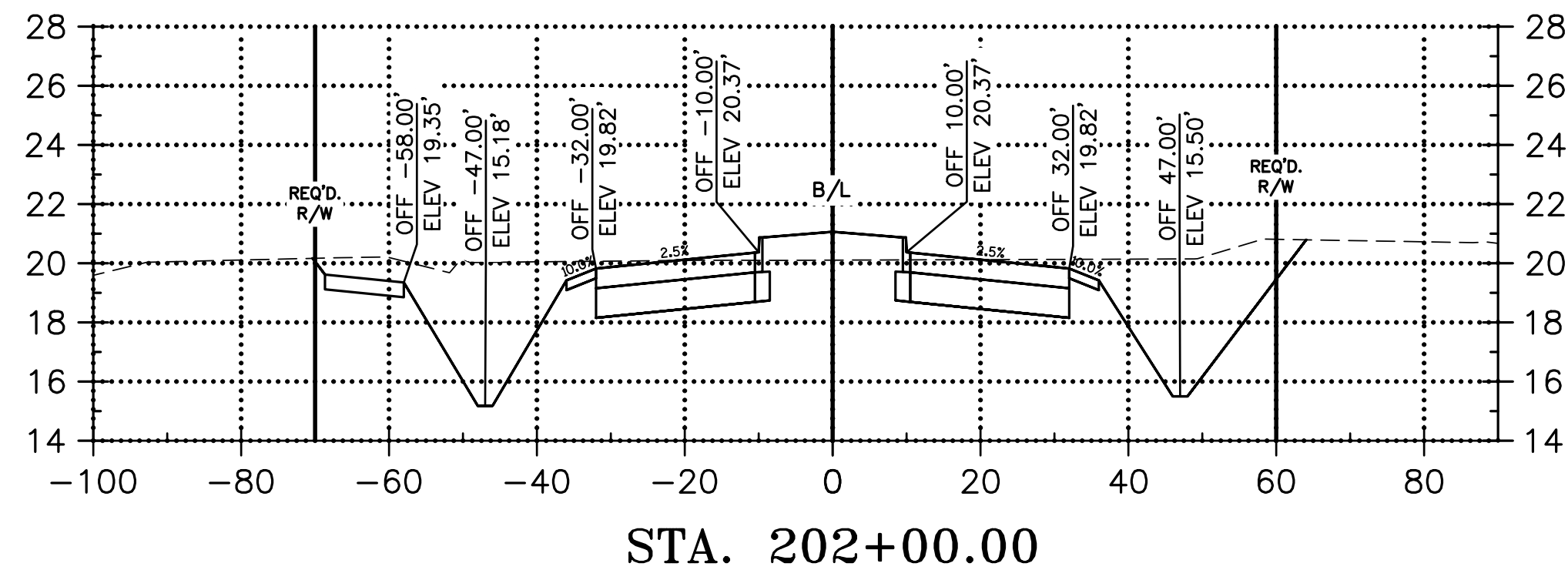


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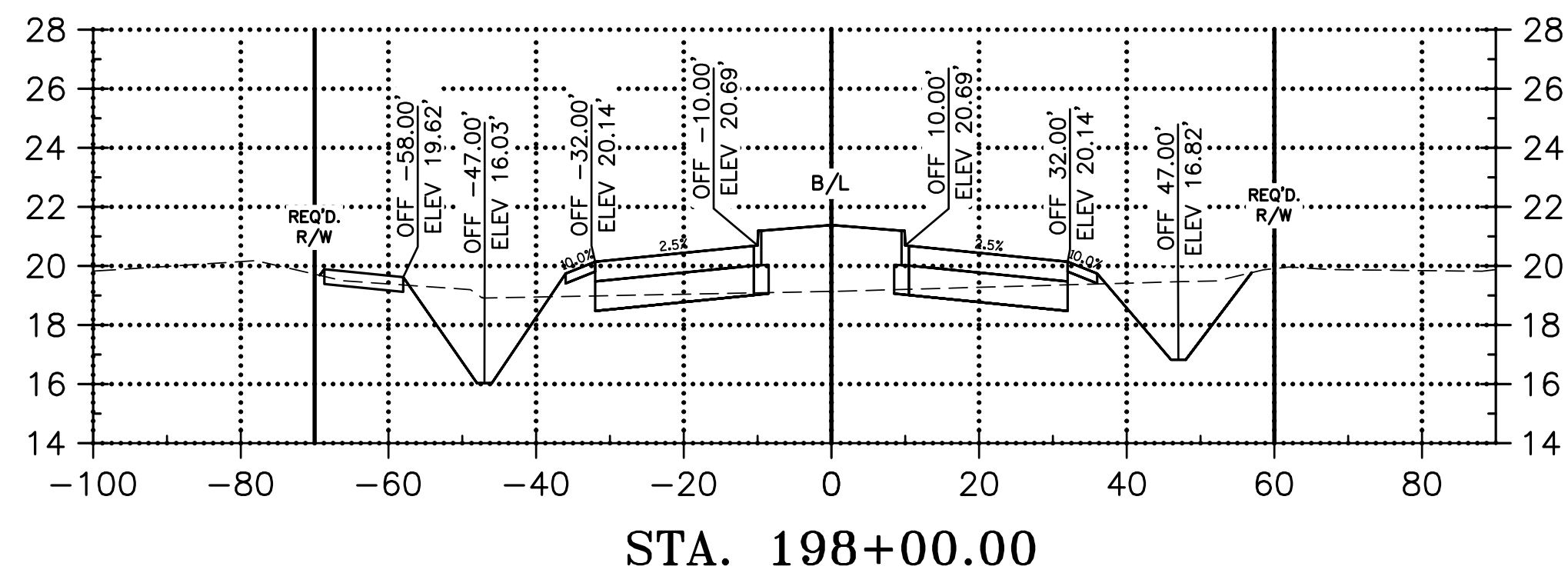
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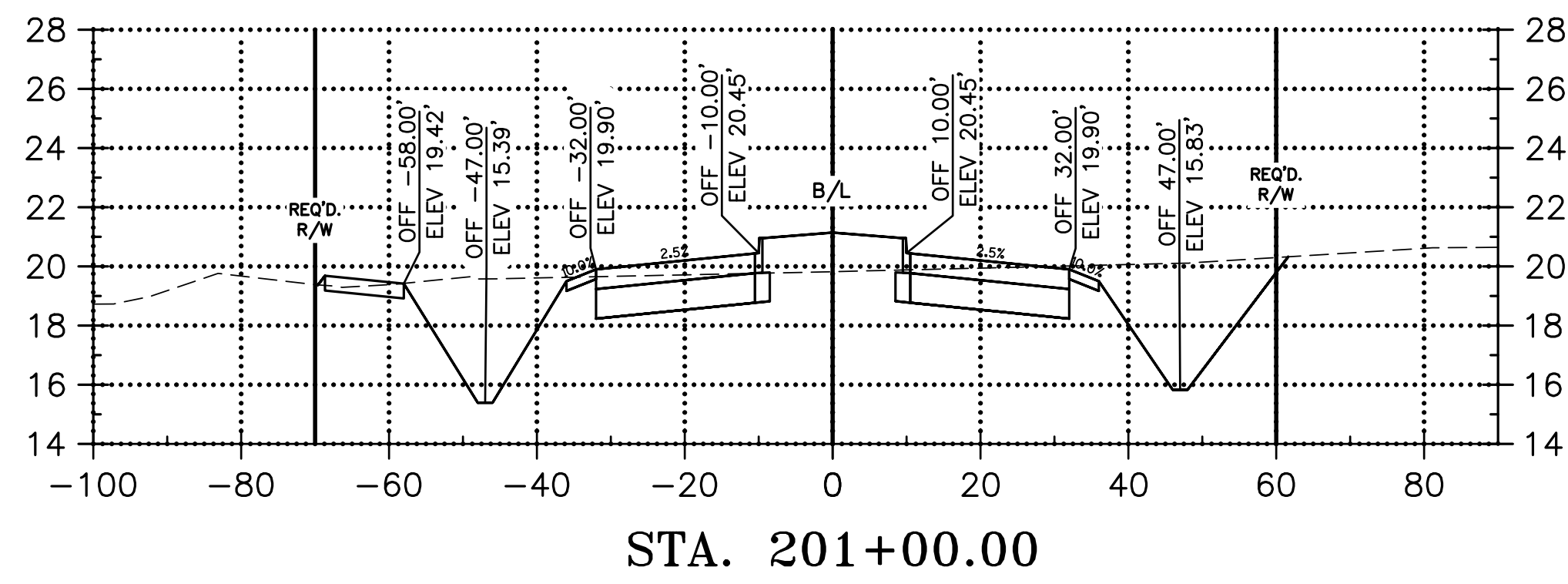
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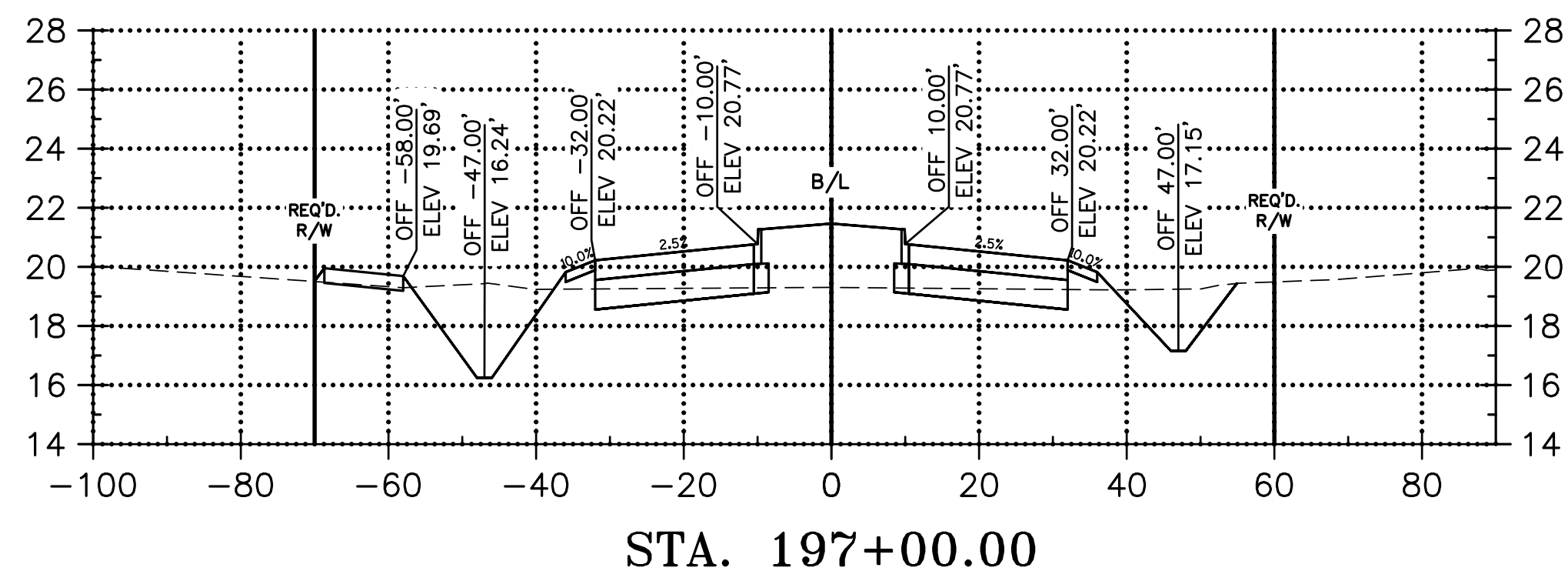
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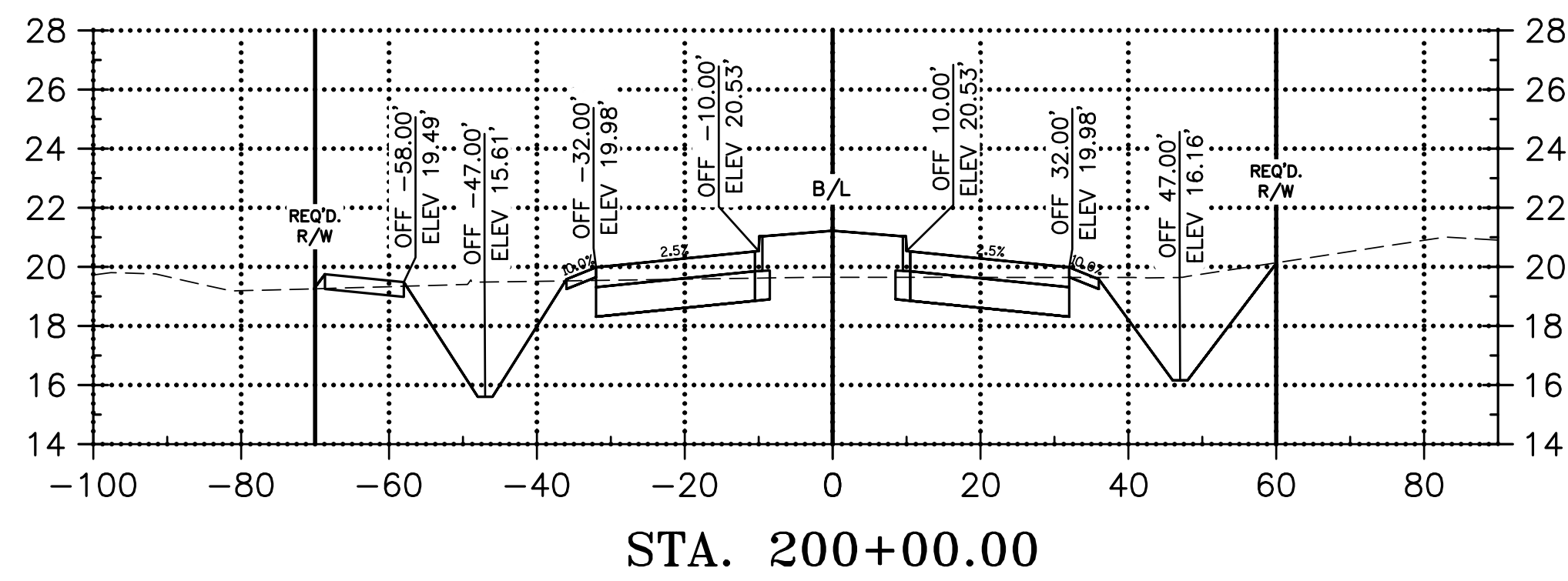
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CUT: 284.35 C.Y.  
FILL: 160.56 C.Y.



CUT: 597.64 C.Y.  
FILL: 95.42 C.Y.



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# CONNECTOR ROAD CROSS SECTIONS

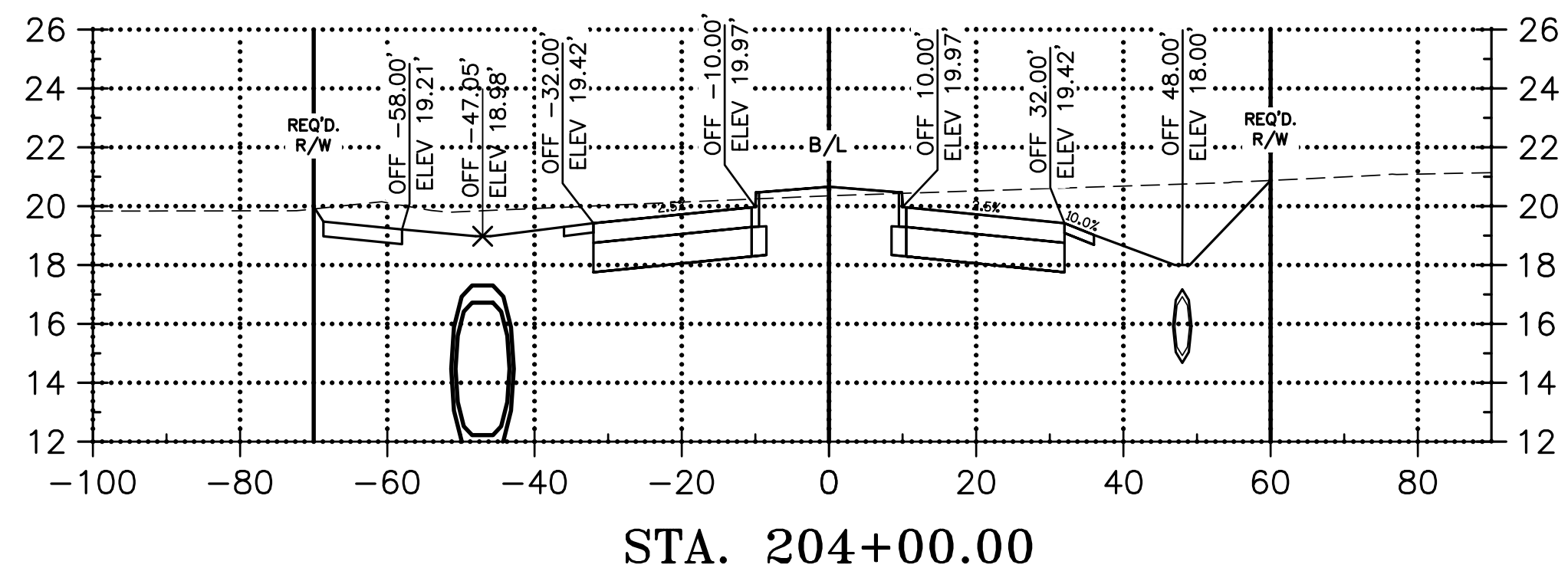
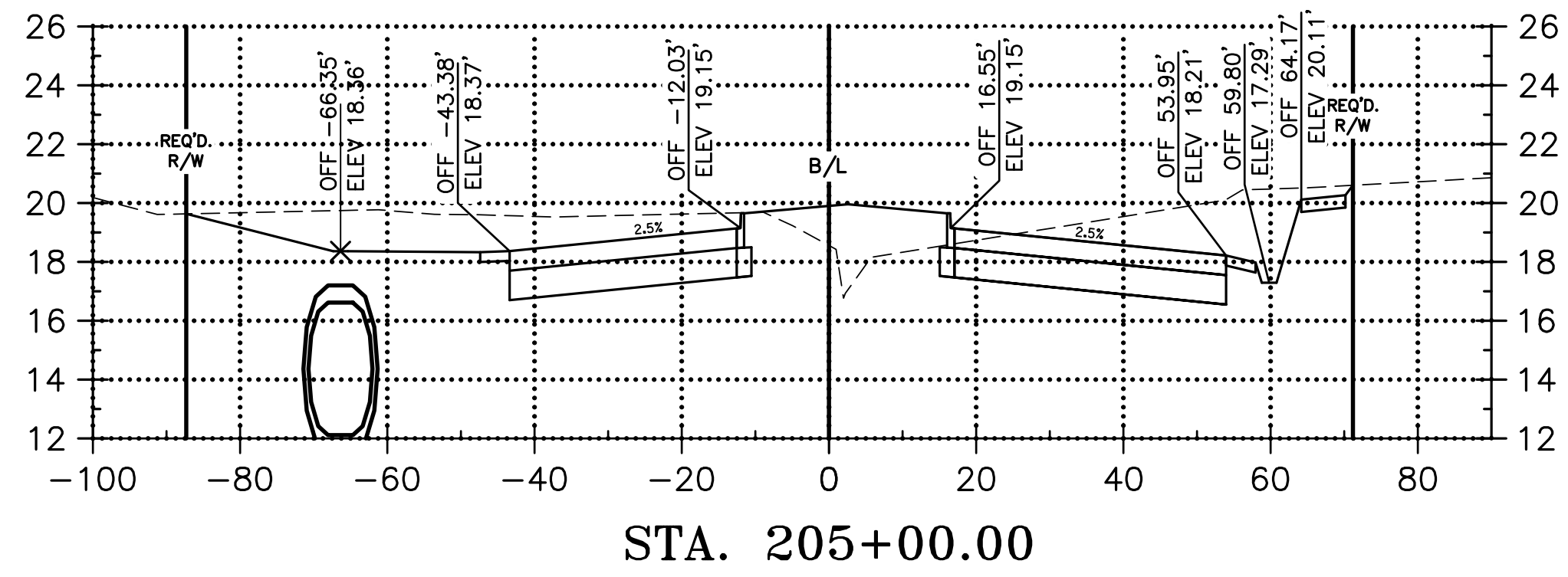
LA 1077/LA 21 CONNECTOR ROAD



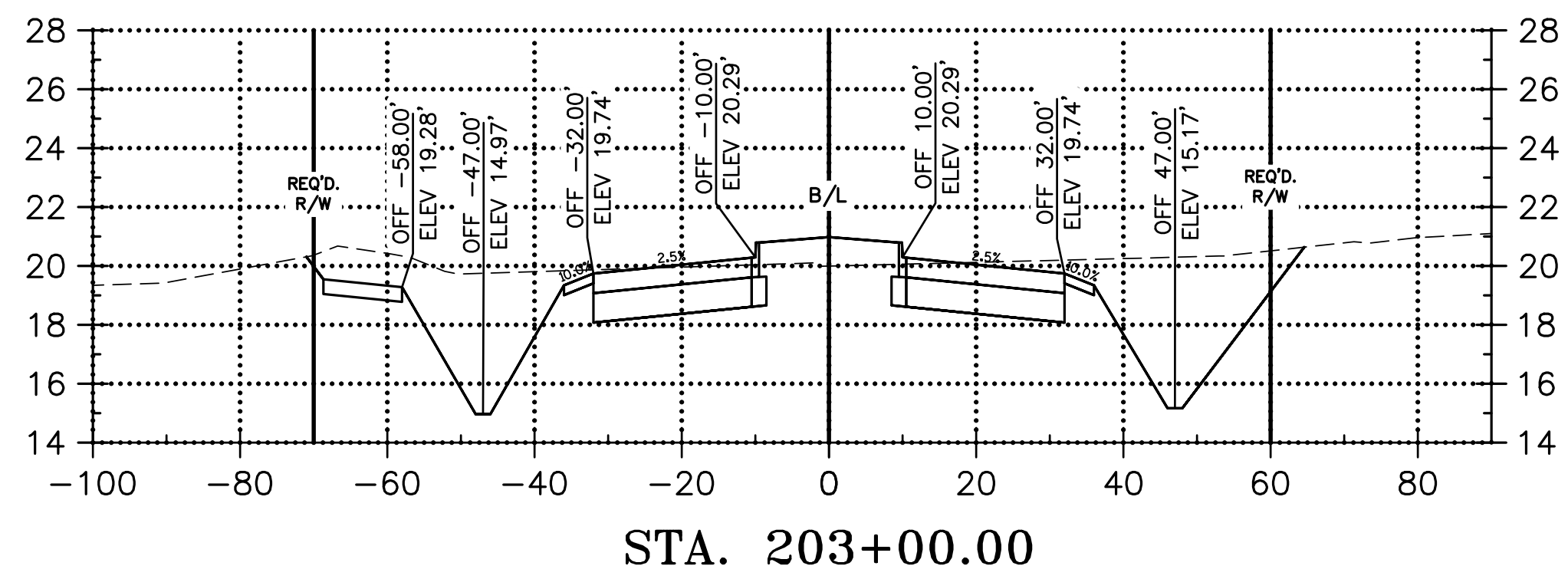
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RCLC No: 714-08  
Sheet Number:  
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CUT: 814.40 C.Y.  
 FILL: 69.21 C.Y.



CUT: 820.60 C.Y.  
 FILL: 37.41 C.Y.



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**CONNECTOR ROAD  
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 LA 1077/LA 21 CONNECTOR ROAD

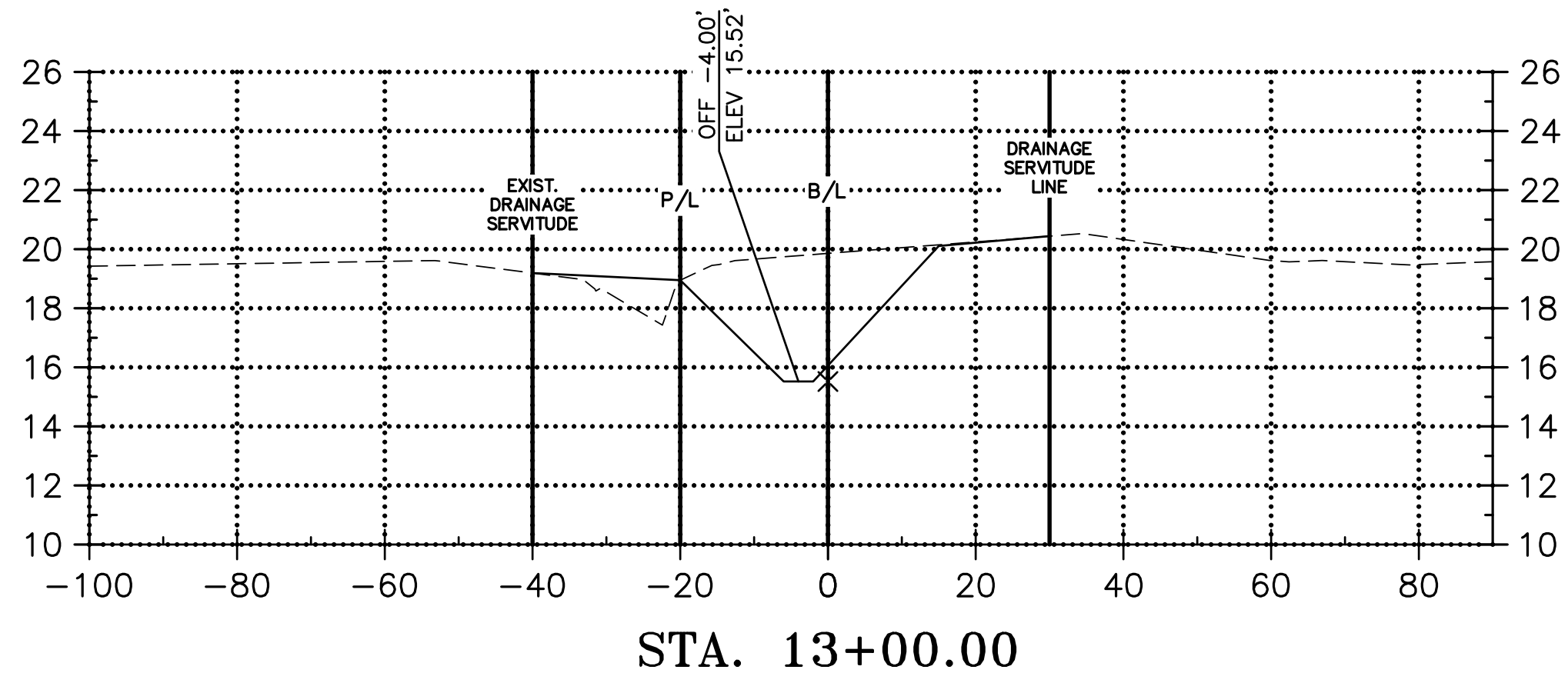
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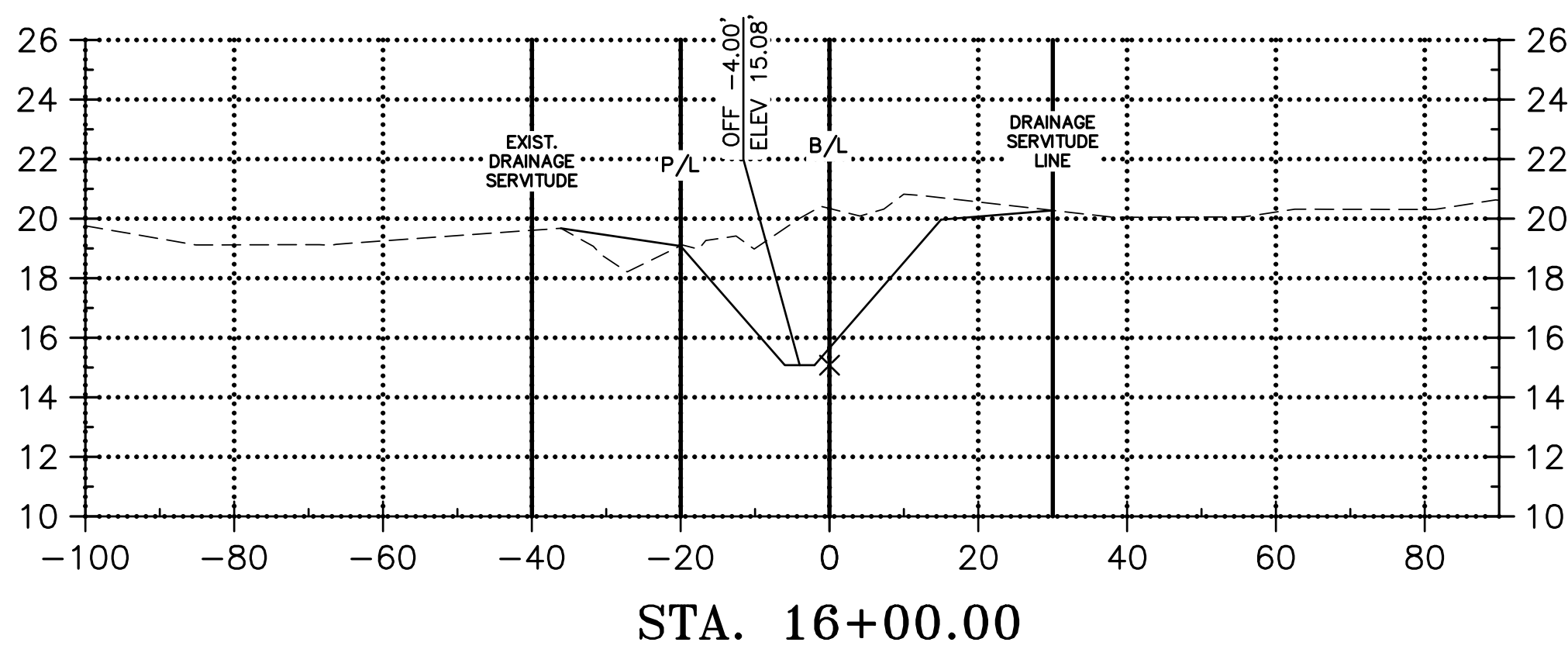
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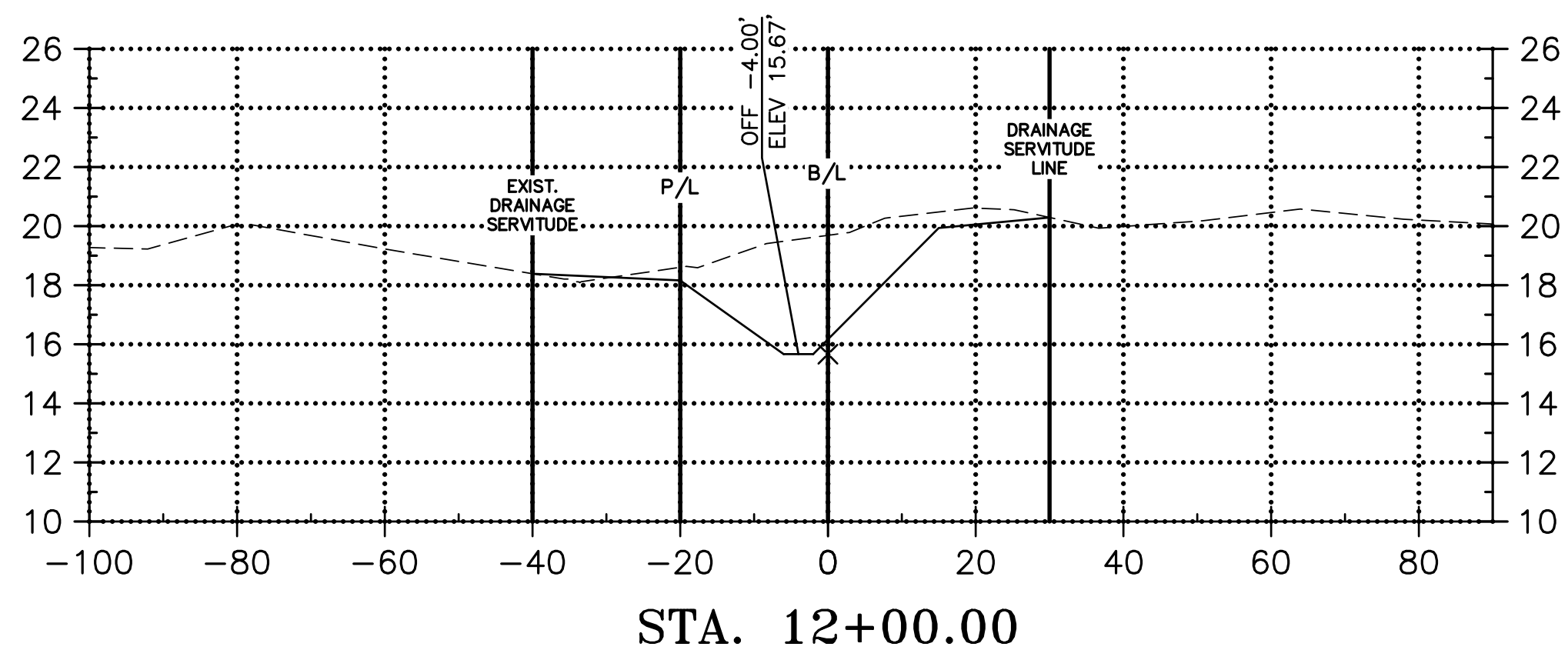
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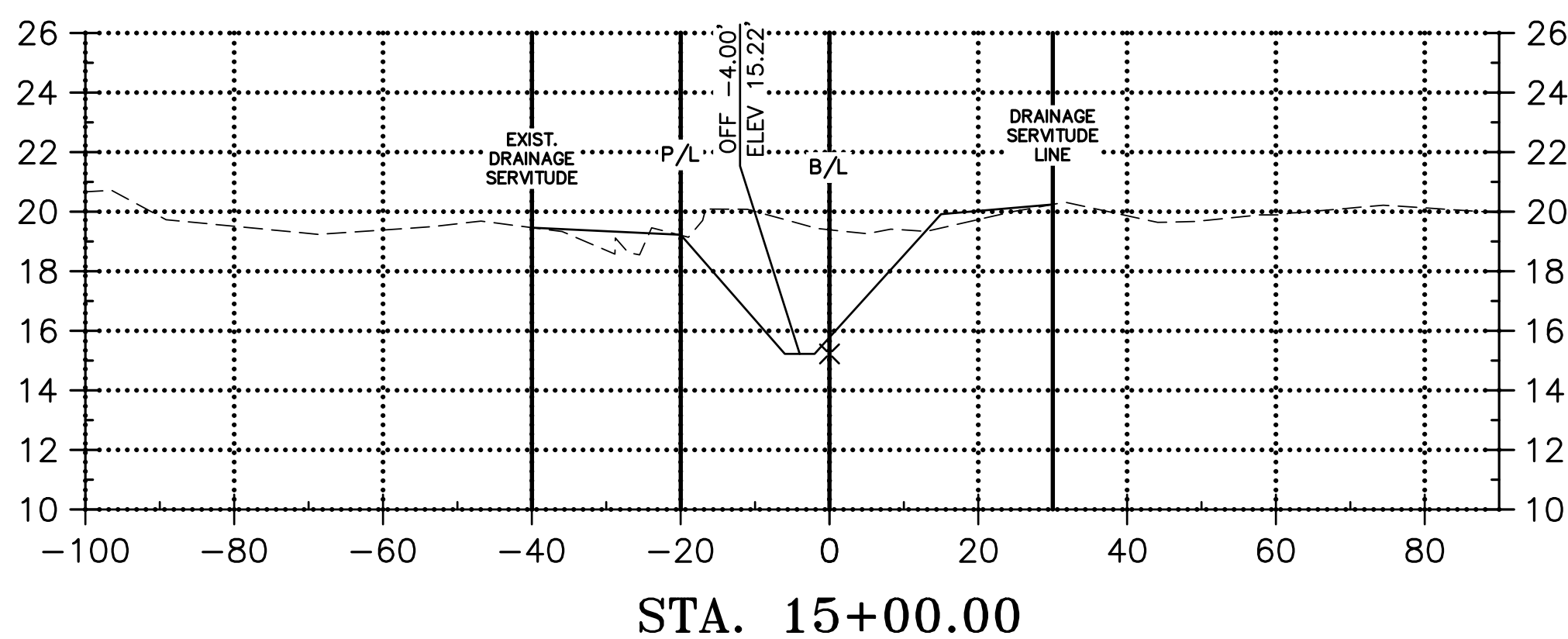
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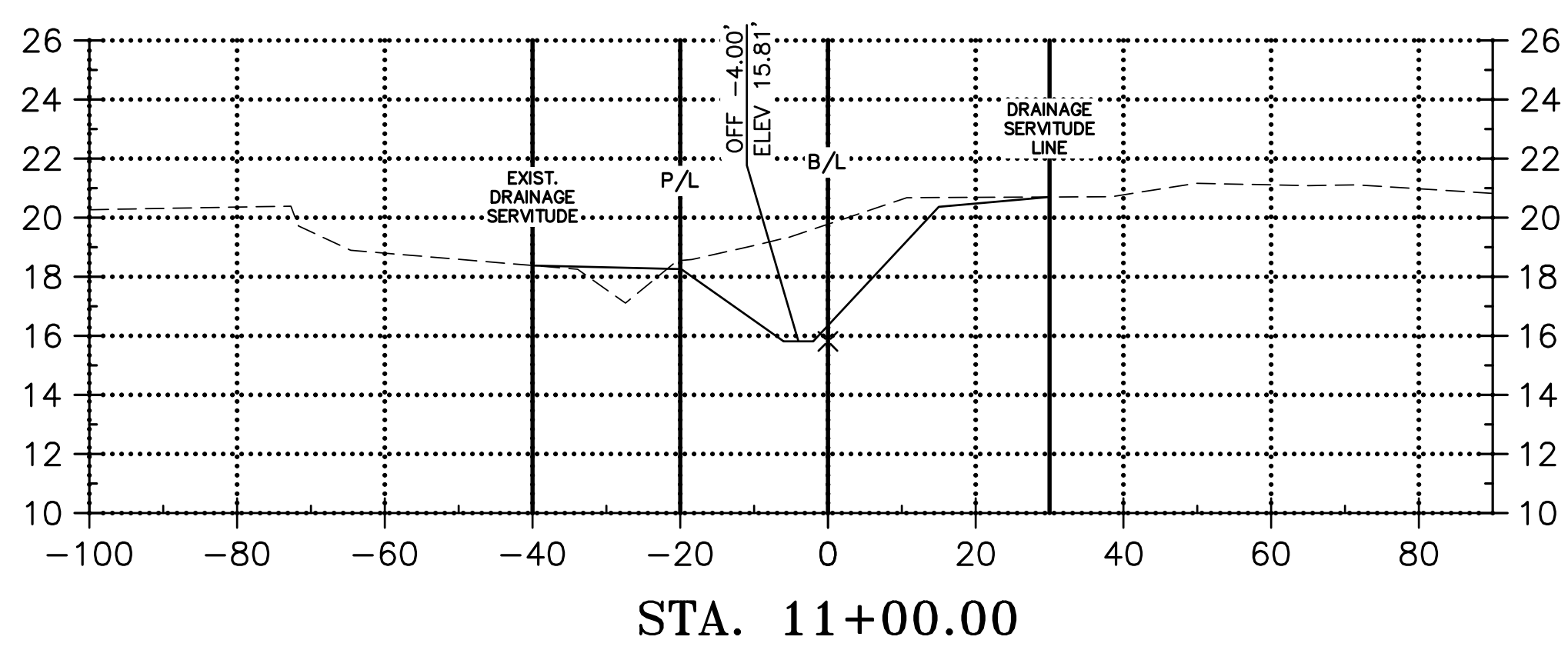
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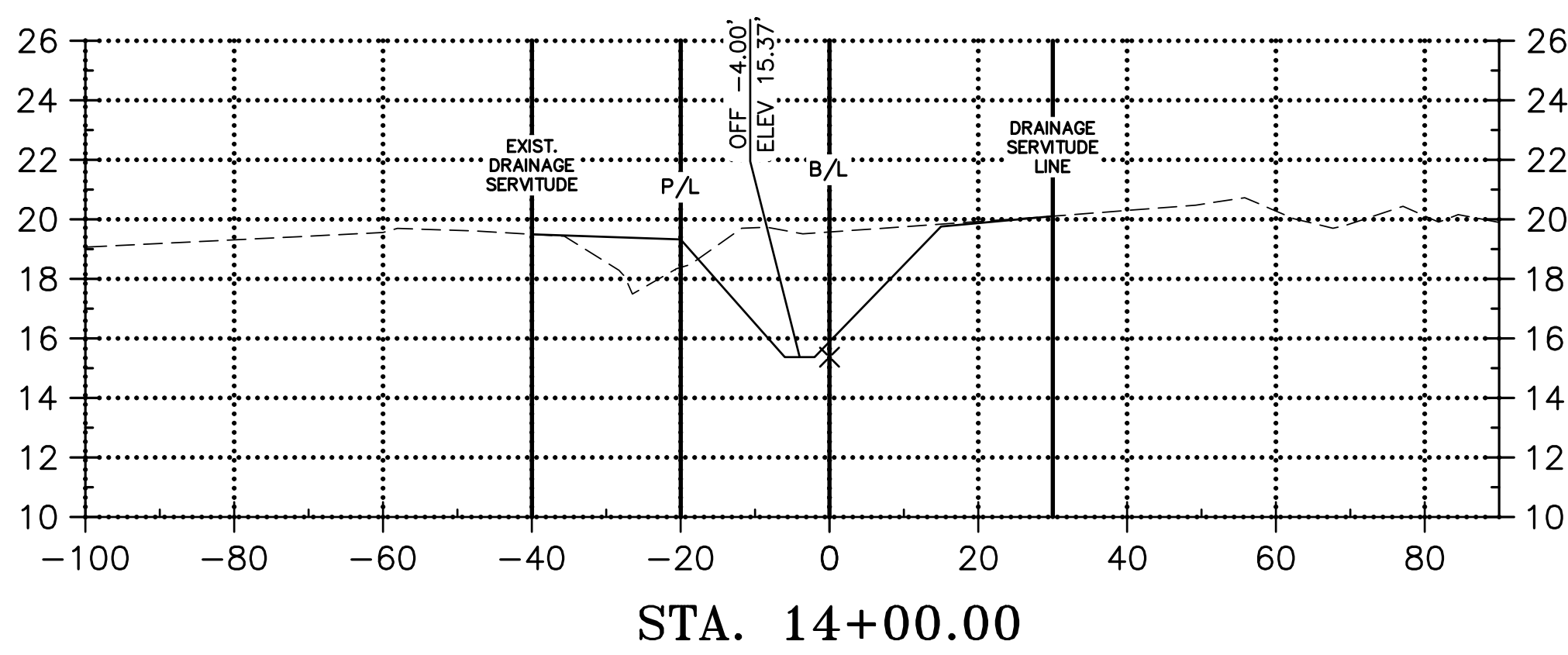
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FILL: 58.15 C.Y.



CUT: 617.31 C.Y.  
FILL: 103.64 C.Y.



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LA 1077/LA 21 CONNECTOR ROAD

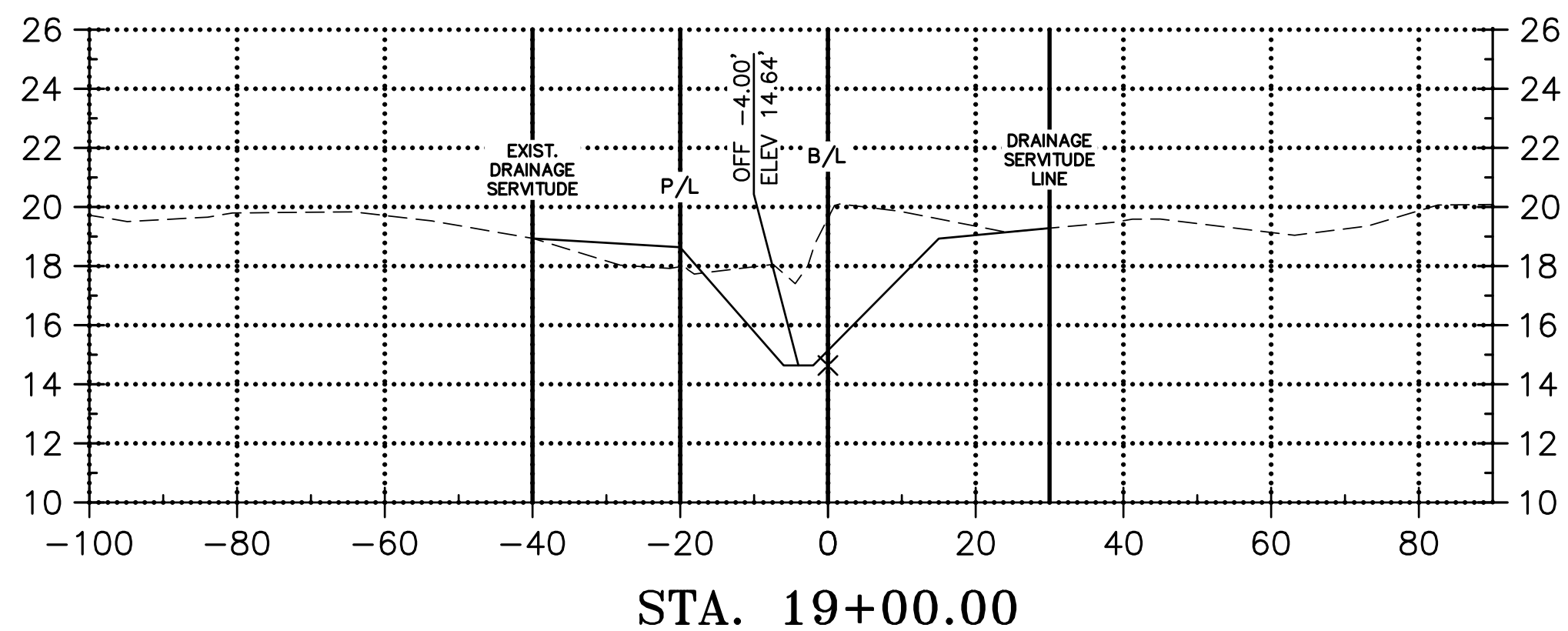
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RCLC No: 714-08

**FINAL PLANS**  
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03/26/21  
**RCL CONSULTANTS, LLC**  
FRANZ J. ZEMMER, P.E.  
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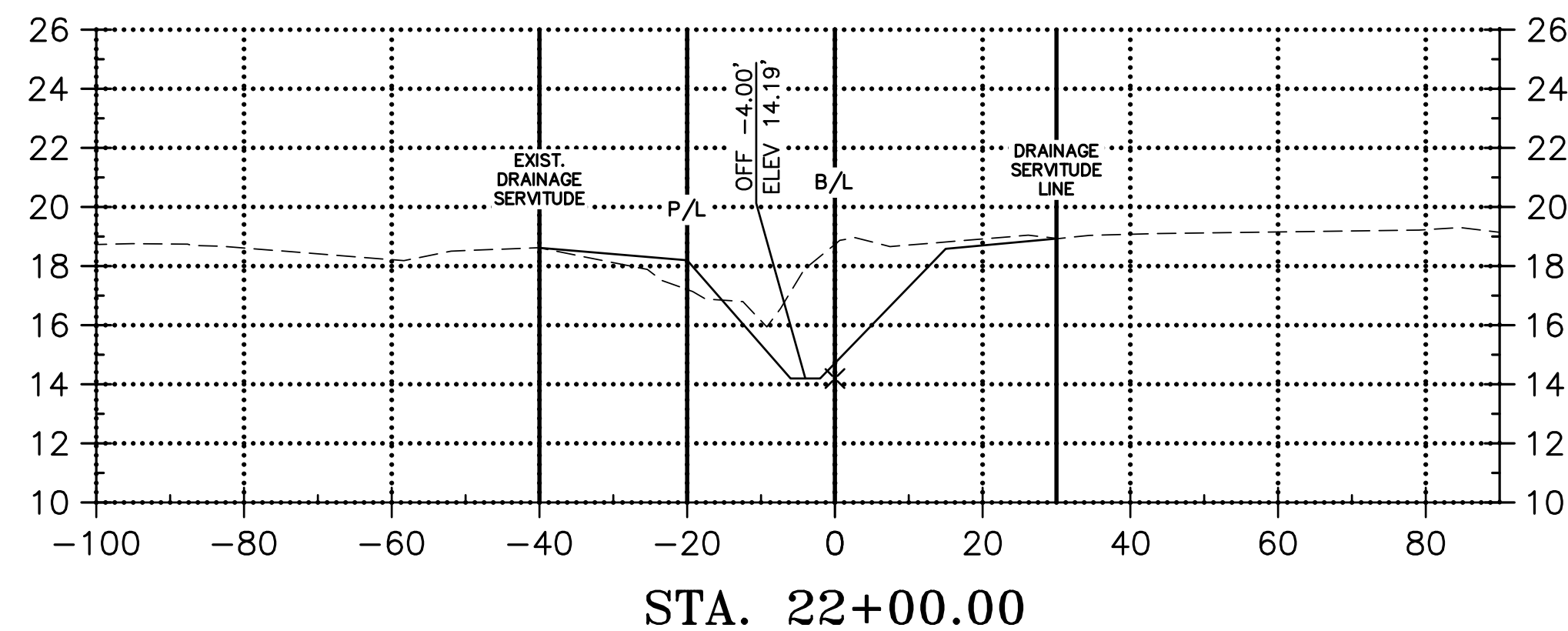


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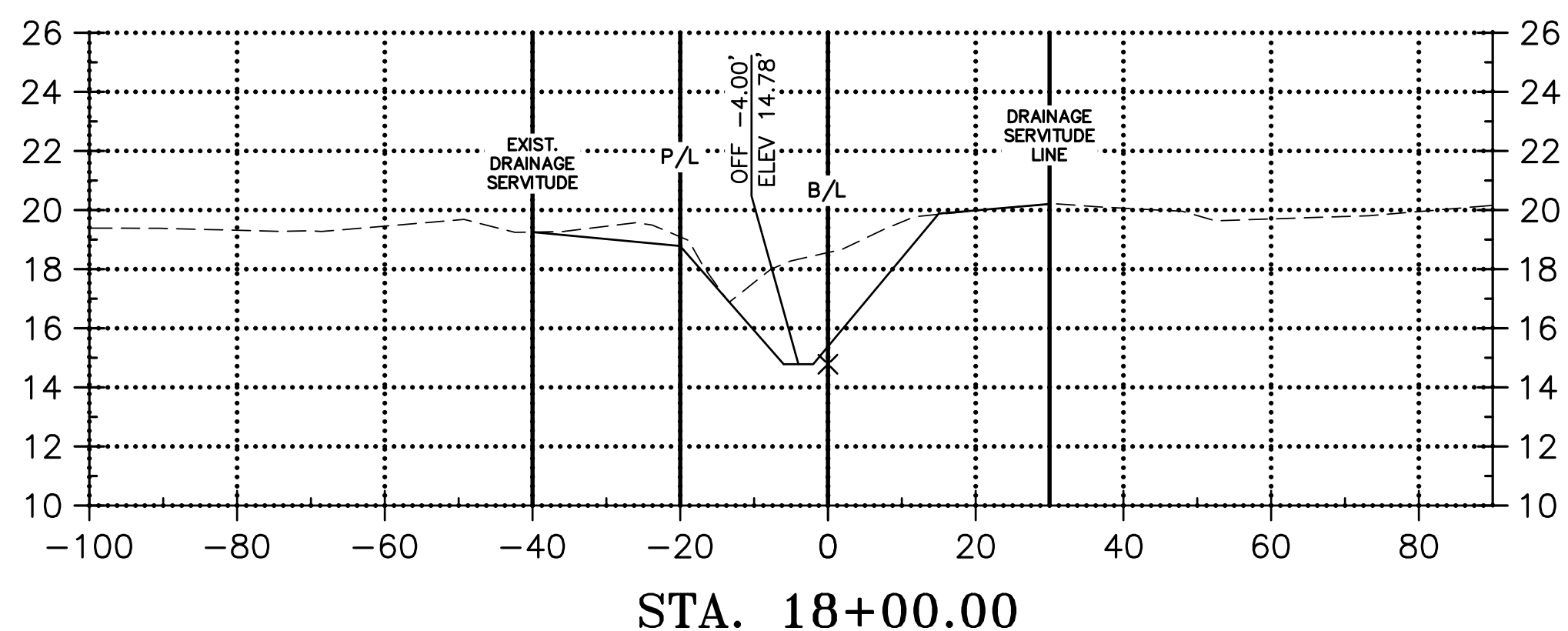
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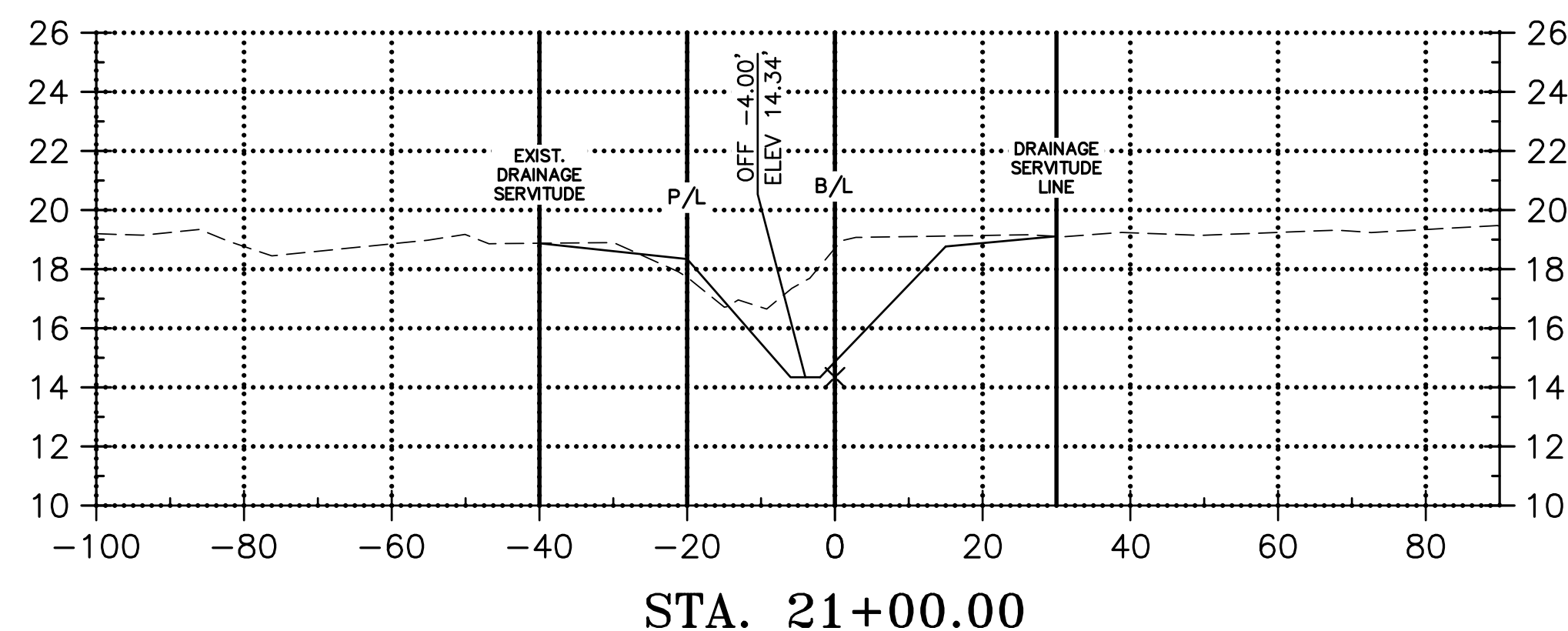
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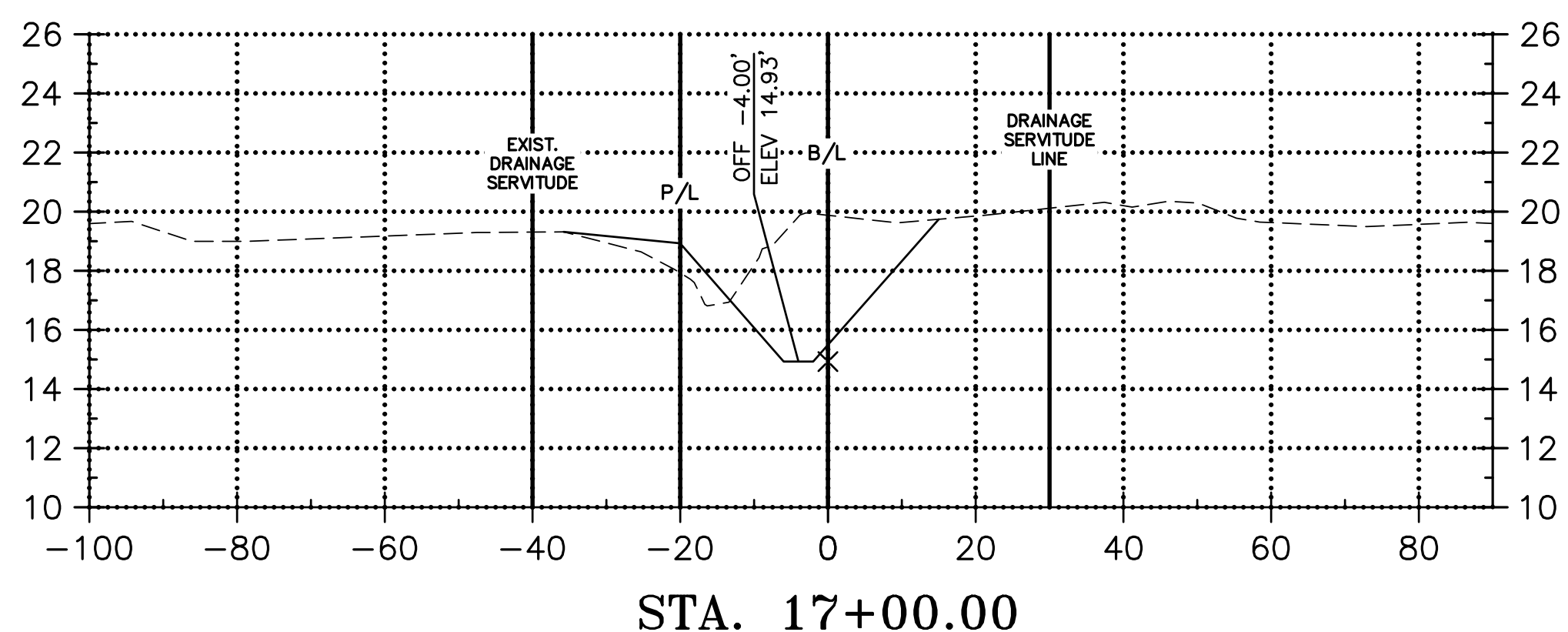
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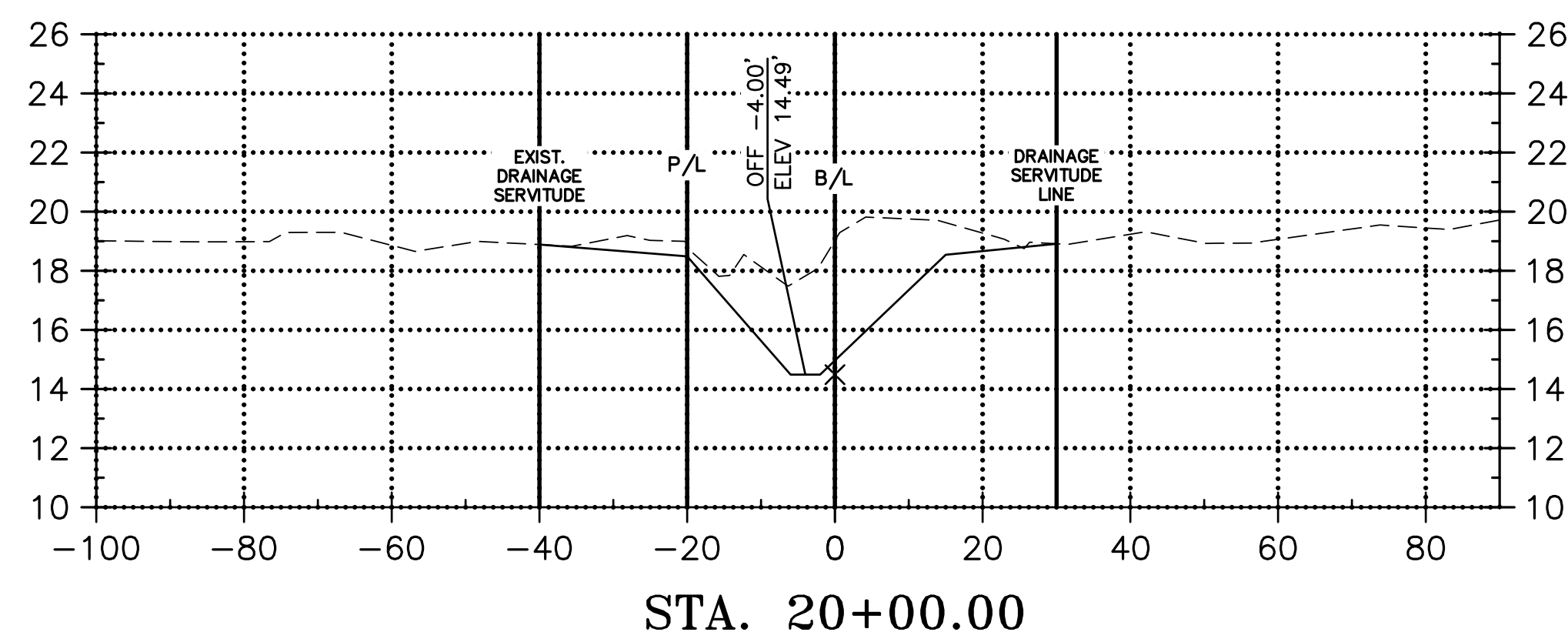
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CUT: 685.59 C.Y.  
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DESIGNED	ATL	NO.	423
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DETAILED	LBW	REVISION	
CHECKED	FJZ	DESCRIPTION	

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**DITCH CROSS SECTIONS**  
 LA 1077/LA 21 CONNECTOR ROAD

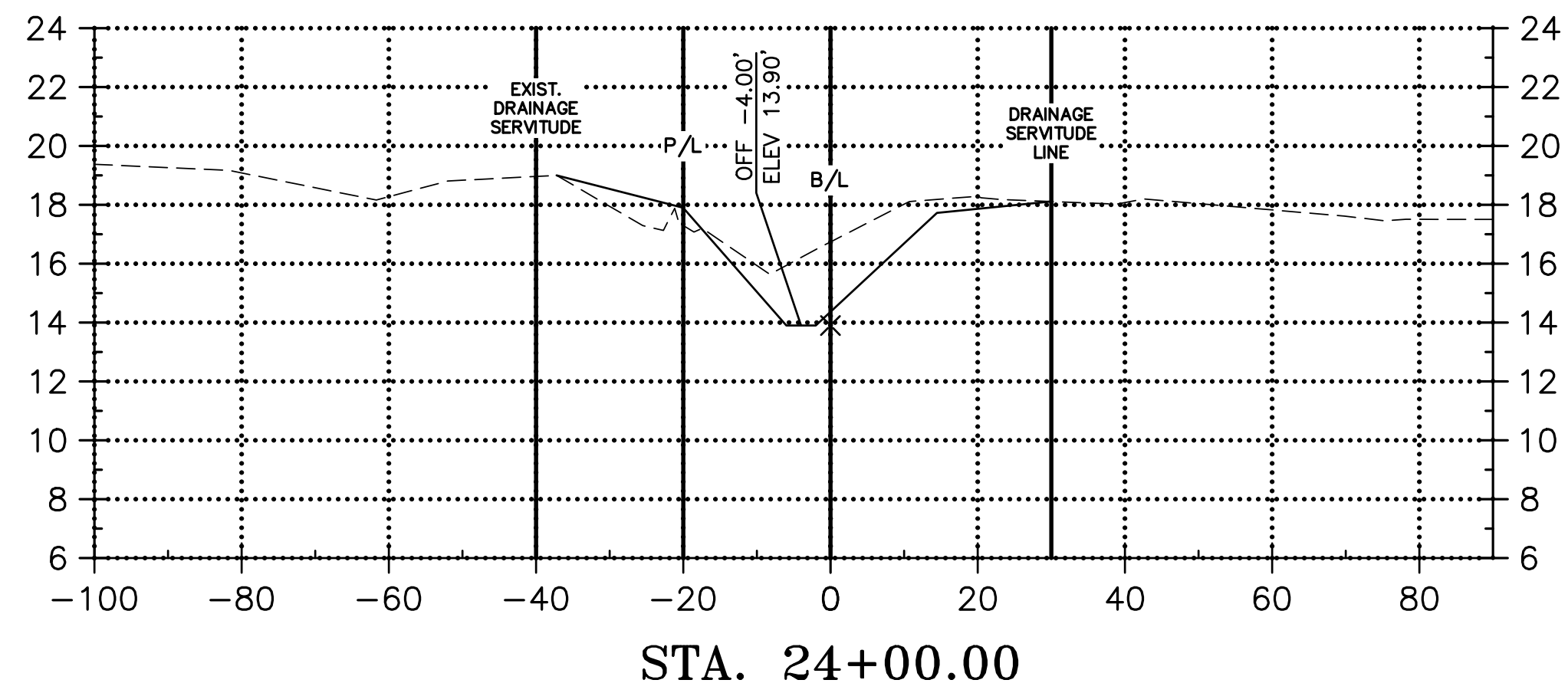
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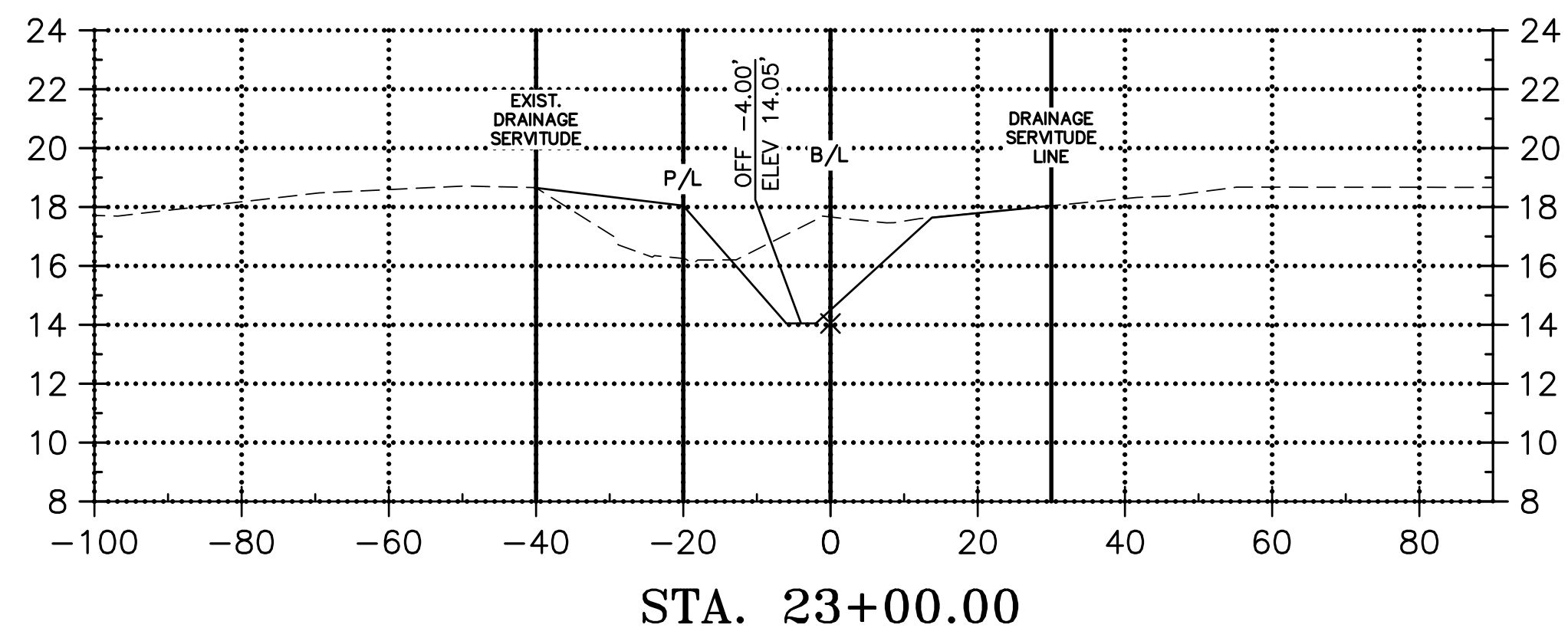
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CUT: 375.09 C.Y.  
FILL: 144.79 C.Y.



CUT: 439.16 C.Y.  
FILL: 140.99 C.Y.



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900 W. Causeway Appr.  
Mandeville, LA 70471  
985-727-4440  
985-727-4447

DESIGNED	ATL
CHECKED	FJZ
DETAILED	LBW
CHECKED	FJZ
DATE	04/29/21
SHEET	424

NO.	DATE	REVISION DESCRIPTION	BY

**DITCH CROSS SECTIONS**  
LA 1077/LA 21 CONNECTOR ROAD

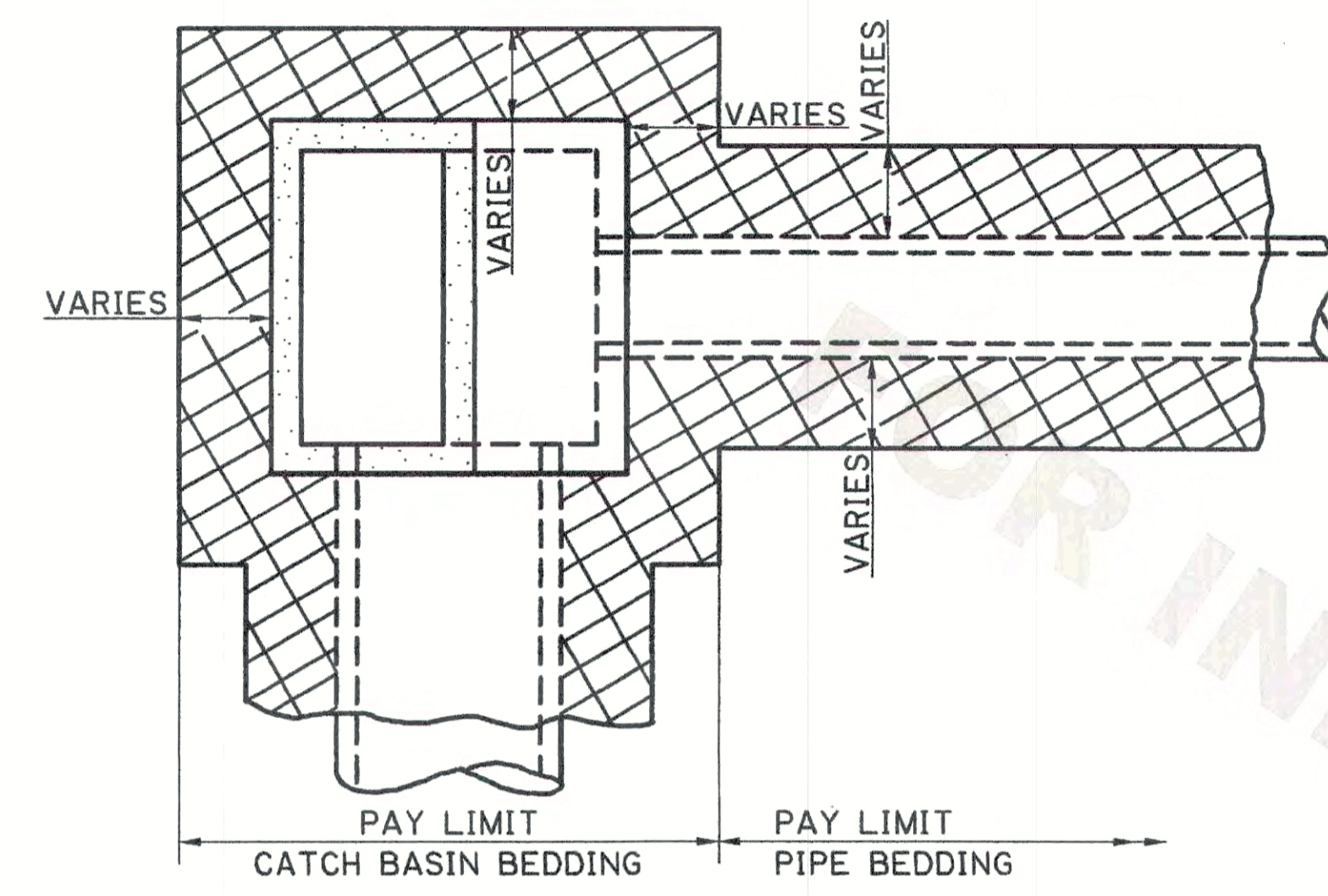
Project Number:  
RCLC No: 714-08



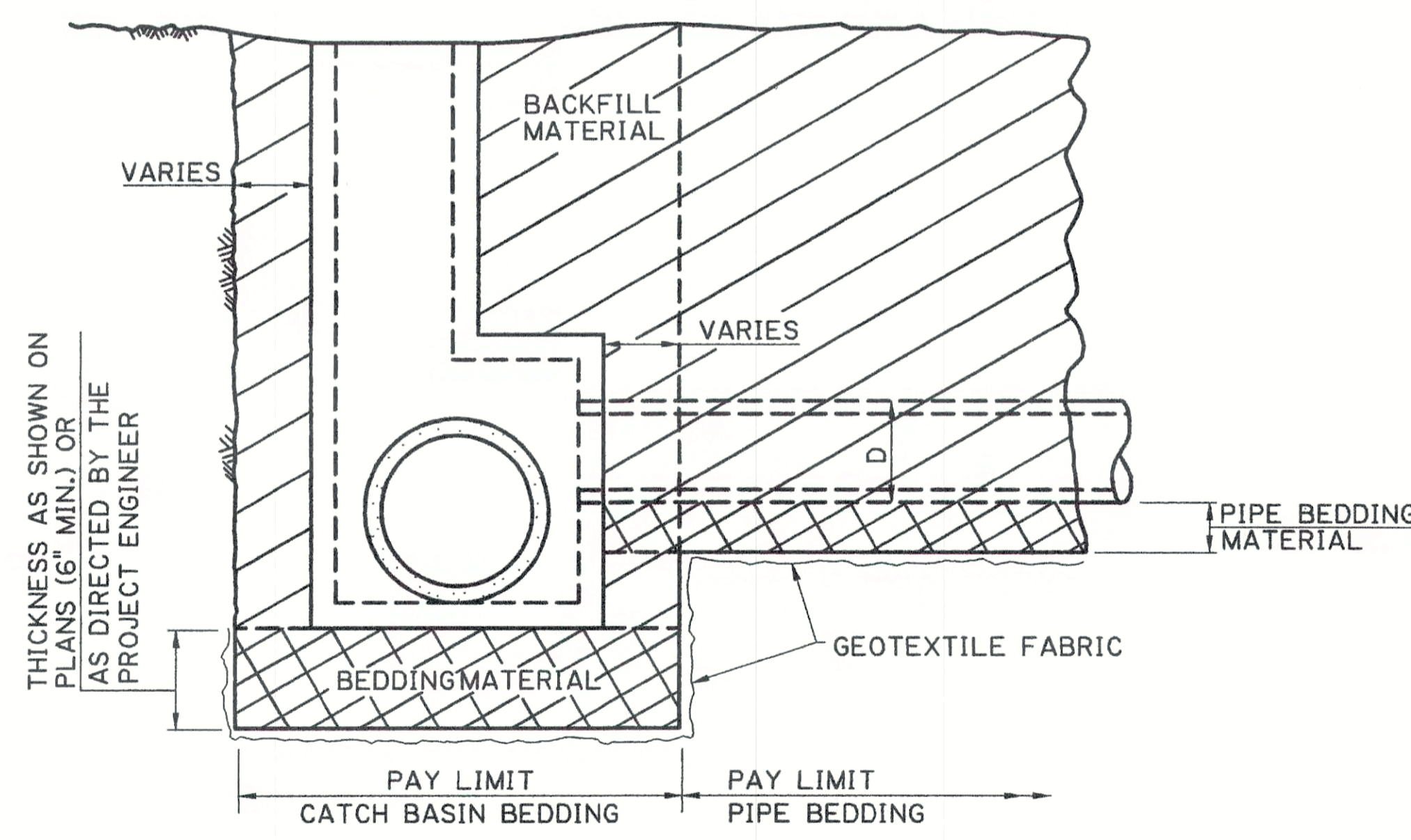
04/29/2021  
Sheet Number:  
**424**



### TYPICAL CATCH BASIN AND STORM SEWER PIPE INSTALLATION WITH BEDDING MATERIAL

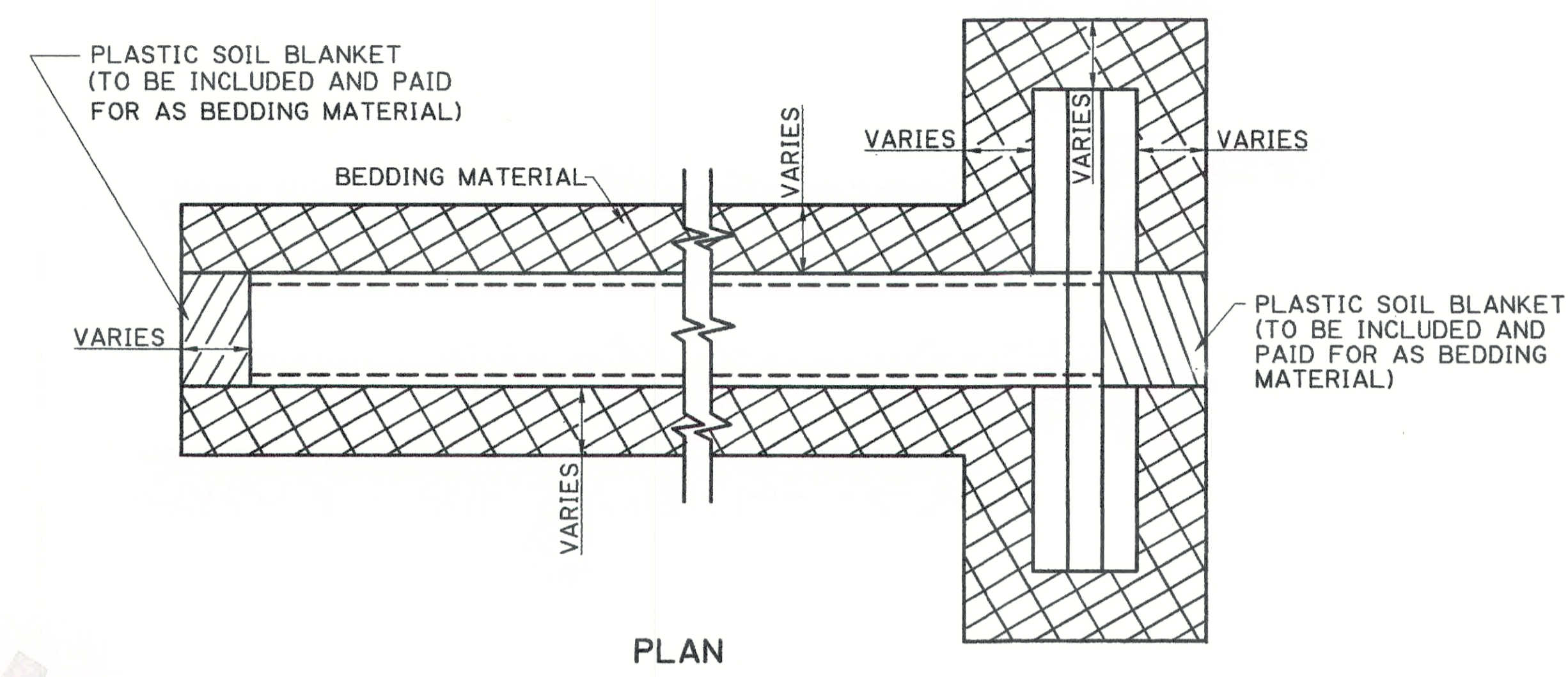


PLAN OF TYPICAL CATCH BASIN (MANHOLE OR JUNCTION BOX) AND PIPE

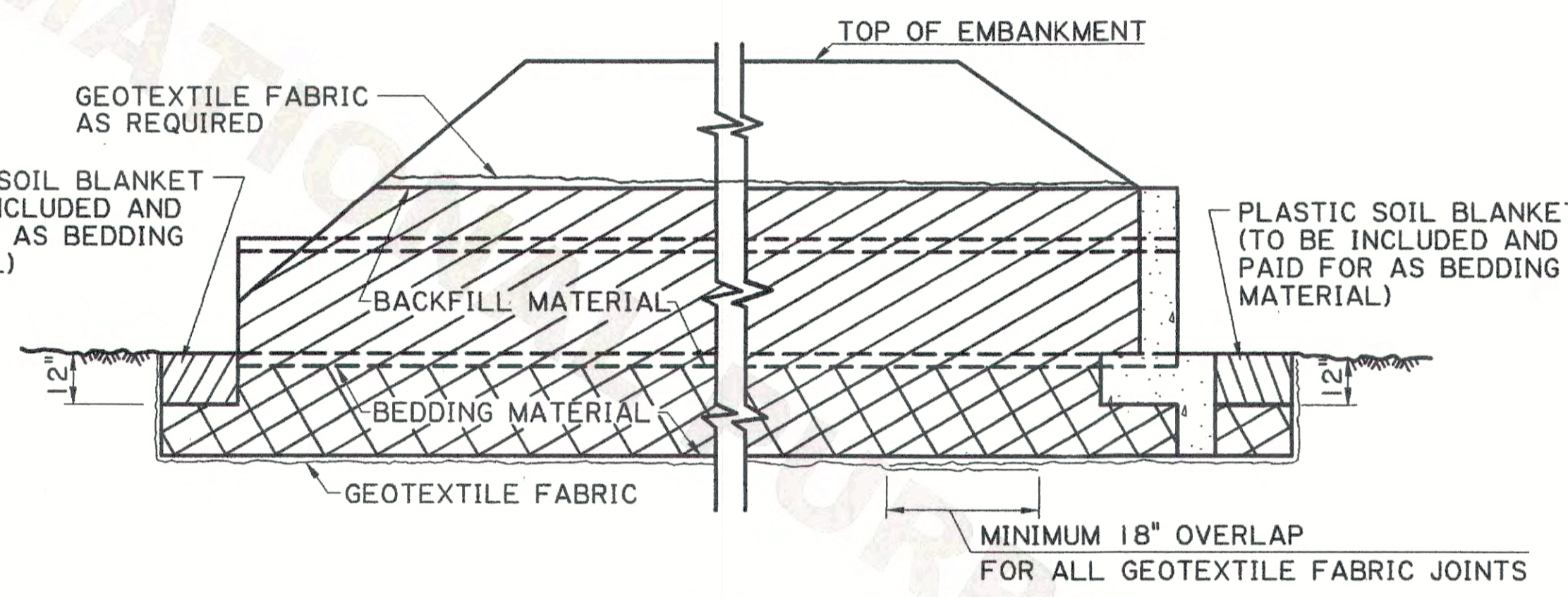


PROFILE OF TYPICAL CATCH BASIN (MANHOLE OR JUNCTION BOX) AND PIPE

### TYPICAL CROSS DRAIN INSTALLATION WITH BEDDING MATERIAL

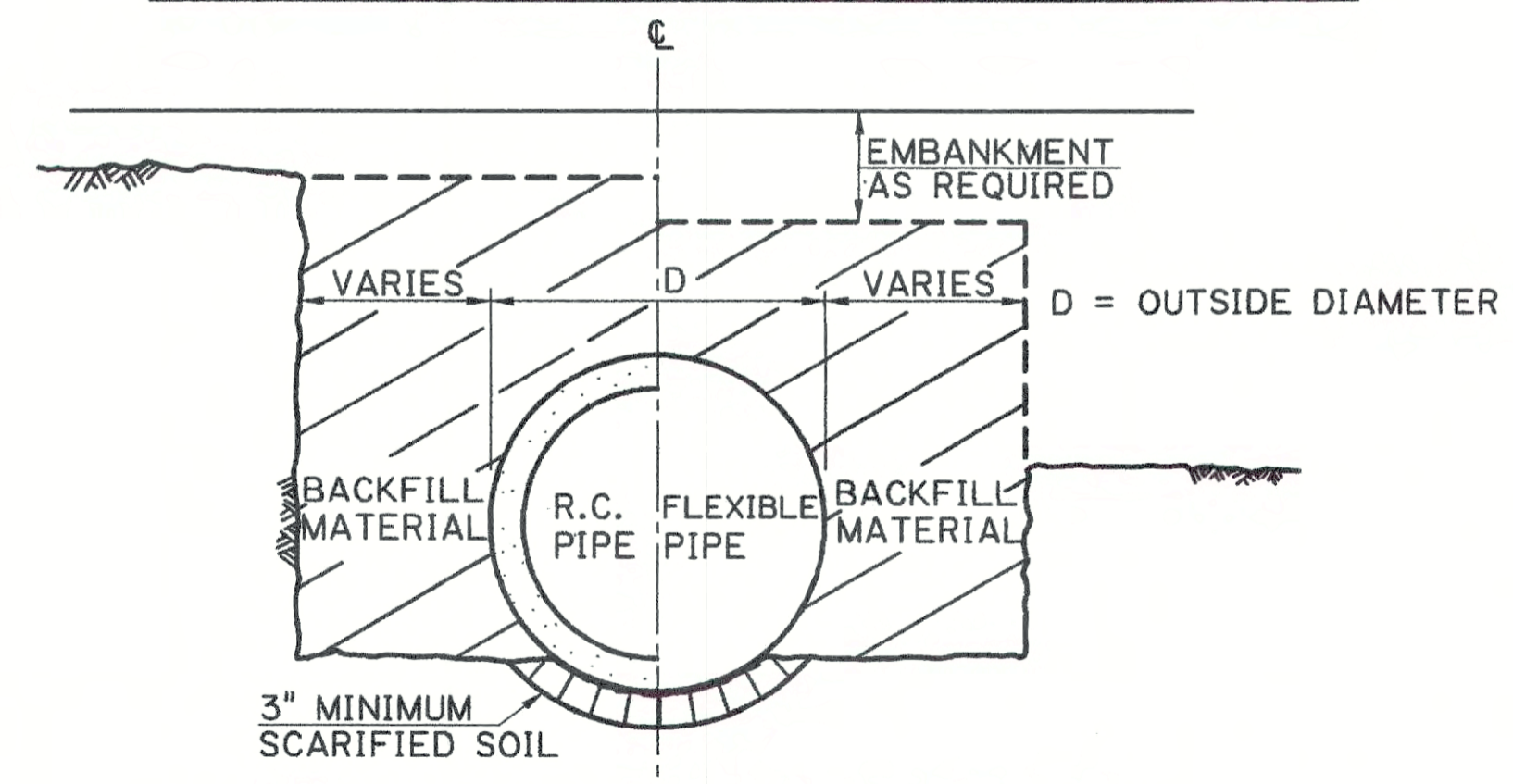


PLAN



PROFILE

### TYPICAL PIPE INSTALLATION WITHOUT BEDDING MATERIAL



SECTION THRU TRENCH/EMBANKMENT

HALF-SECTION SHOWING TOP OF PIPE GREATER THAN 12" BELOW ORIGINAL GROUND (TRENCH INSTALLATION)

HALF-SECTION SHOWING TOP OF PIPE ABOVE ORIGINAL GROUND (EMBANKMENT INSTALLATION)

#### GENERAL NOTES

1. CONSTRUCTION SPECIFICATIONS: LATEST APPROVED LA DOTD STANDARD SPECIFICATIONS
2. STANDARD DOTD PIPE INSTALLATION, BEDDING, BACKFILL (TYPE "A" OR "B") AND TRENCH WIDTH ARE DEFINED IN SECTIONS 701 AND 726 OF THE LA DOTD STANDARD SPECIFICATIONS.
3. THE NEED AND/OR THE THICKNESS OF BEDDING MATERIAL WILL BE DETERMINED BY THE GEOTECHNICAL SECTION AND WILL BE SHOWN ON THE PLANS. ADDITIONAL BEDDING MATERIAL MAY BE REQUIRED BY THE PROJECT ENGINEER AT NO COST TO THE CONTRACTOR.
4. THE DETAILS ON THIS SHEET DEPICT PAY LIMITS FOR BEDDING MATERIALS. THE BEDDING MATERIAL PAY QUANTITIES ARE TO BE BASED ON THE THEORETICAL NET SECTION WITH NO PIPE DEDUCTIONS.
5. THE BACKFILL IS TO BE MEASURED AND PAID IN ACCORDANCE WITH SECTION 701 OF LA DOTD STANDARD SPECIFICATIONS.
6. BEDDING SHOWN ON THIS STANDARD PLAN CONFORMS TO THE CURRENT AASHTO SPECIFICATIONS.
7. FLEXIBLE PIPE CONSISTS OF ALL CORRUGATED METAL AND PLASTIC PIPE.
8. REINFORCED CONCRETE PIPE AND FLEXIBLE PIPE ARE SHOWN AS TYPICAL STRUCTURES. DETAILS FOR REINFORCED CONCRETE BOX, REINFORCED CONCRETE PIPE ARCH, CORRUGATED METAL PIPE ARCH AND CORRUGATED STRUCTURAL PLATE STRUCTURES ARE SIMILAR.
9. MINIMUM COVER IS 12" FOR ALL PIPE. THERE IS NO MINIMUM COVER REQUIREMENT FOR RCB.

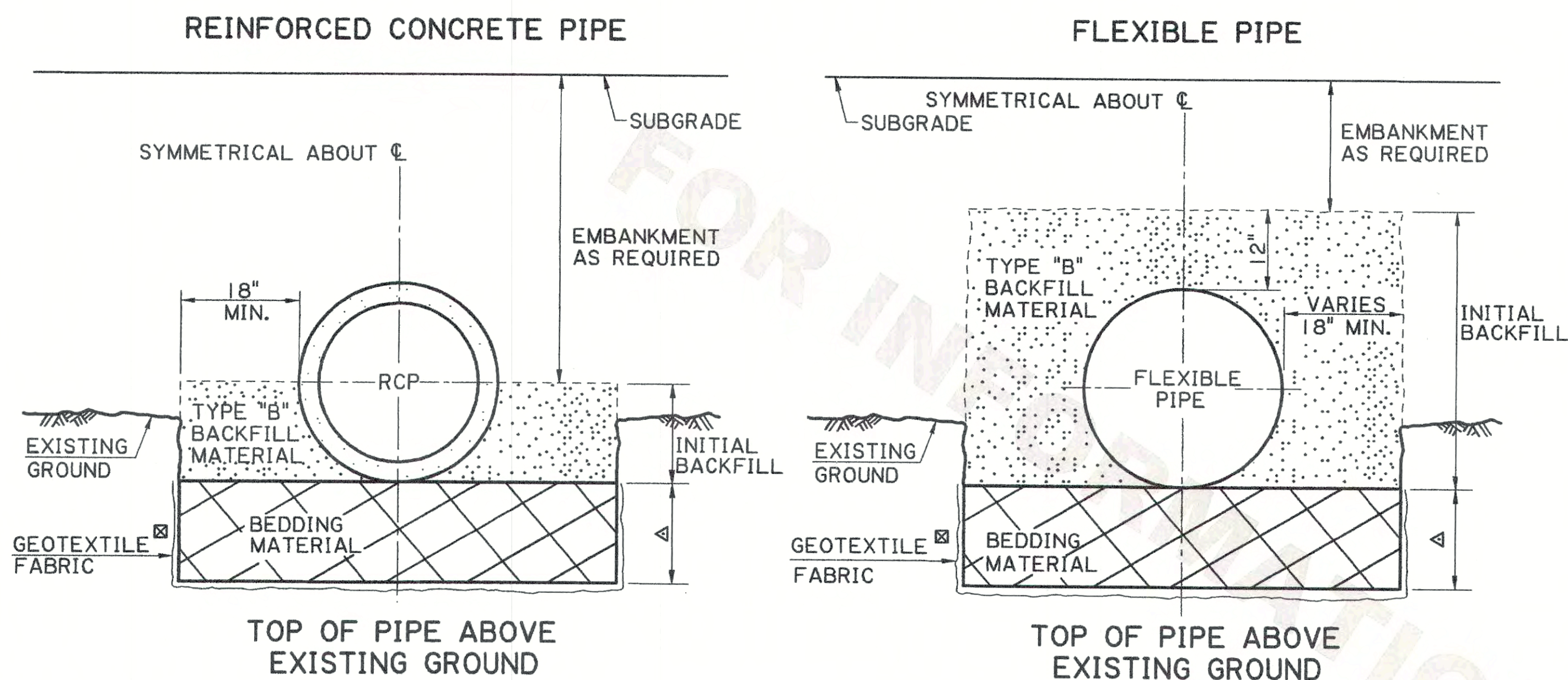
SHEET NUMBER		PARISH		FEDERAL PROJECT		STATE PROJECT	
DESIGNED	CHECKED	DATE	BY	DATE	BY	DATE	BY
8-22-07	1-8-07	7-11-05	JDK	8-22-07	JDK	6-8-71	JDK
REVISION TO COMPLY WITH CURRENT SPECIFICATIONS				REVISION DESCRIPTION			
ADDED FINAL AND INITIAL BACKFILL				A & B BACKFILL			
REDRAFTED, REVISED FOR TYPE A & B BACKFILL				JDK			
APPROVED BY				DATE			
CHIEF ENGINEER: <i>W. A. Temple</i>				8-22-07			
BEDDING AND BACKFILL FOR DRAINAGE STRUCTURES							
STANDARD PLAN BM-01							
HYDRAULICS SECTION							



# TYPICAL PIPE INSTALLATION WITH BEDDING MATERIAL

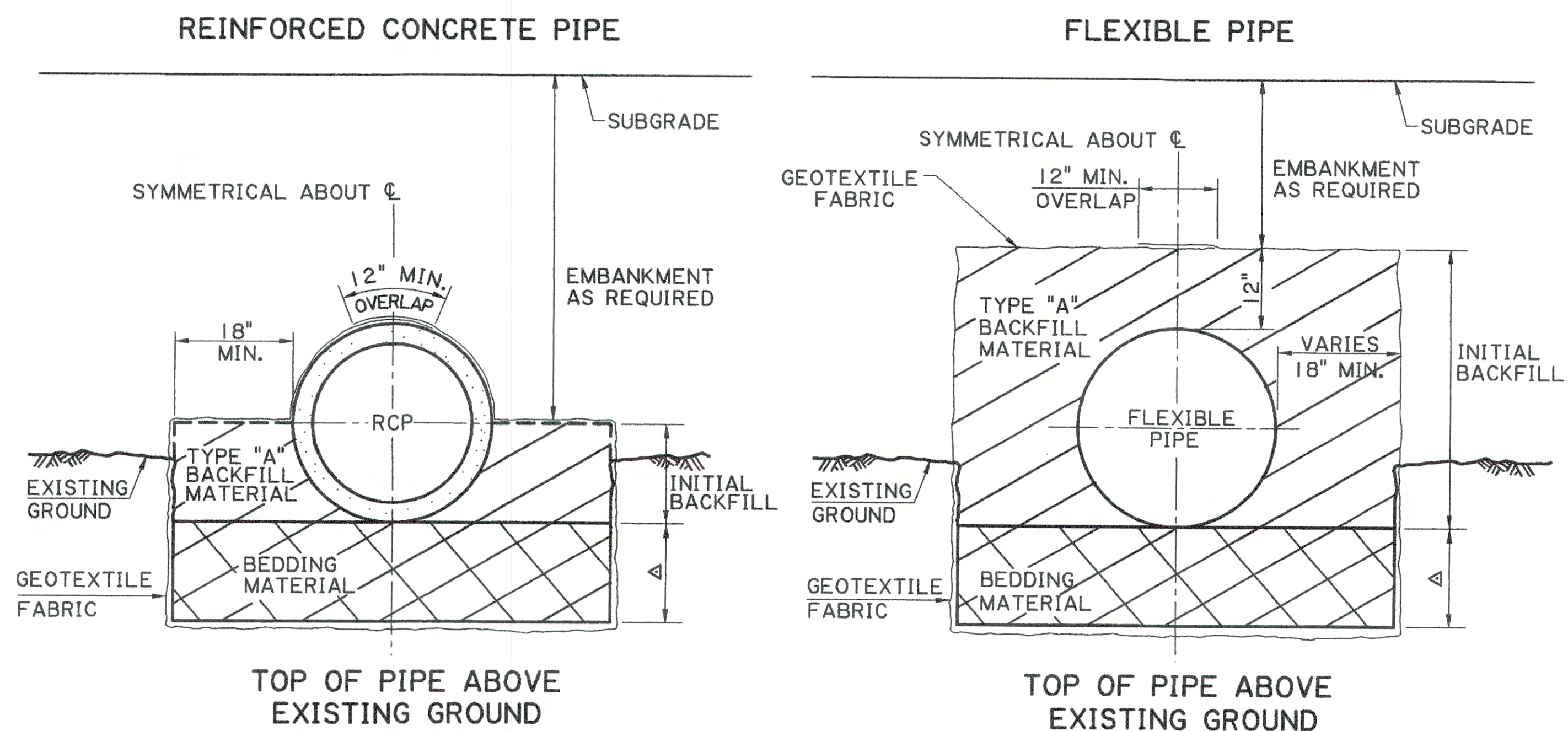
## EMBANKMENT INSTALLATION

① FOR RIGID PAVEMENTS, FLEXIBLE PAVEMENTS OR OTHER AREAS



- ① FOR RIGID PAVEMENTS: APPLIES TO ALL PIPE UNDER RIGID PAVEMENT, EXCEPT AS NOTED FOR FLEXIBLE PAVEMENT NOTE ③ BELOW.
- FOR FLEXIBLE PAVEMENTS: APPLIES TO PIPES THAT DO NOT CROSS THE CENTERLINE OF NEW OR EXISTING ROADWAY
- FOR OTHER AREAS: APPLIES TO PIPES IN NONPAVED AREAS OR PAVED AREAS THAT SERVE AS DRIVEWAYS OR SHOULDERS
- ☒ IF DIRECTED BY THE PROJECT ENGINEER, GEOTEXTILE FABRIC WILL BE INSTALLED AROUND THE TYPE "B" BACKFILL AND PAID UNDER THE PAY ITEM FOR GEOTEXTILE FABRIC, SECTION 711 OR 203 OF LA DOTD STANDARD SPECIFICATIONS OR BY CHANGE ORDER.

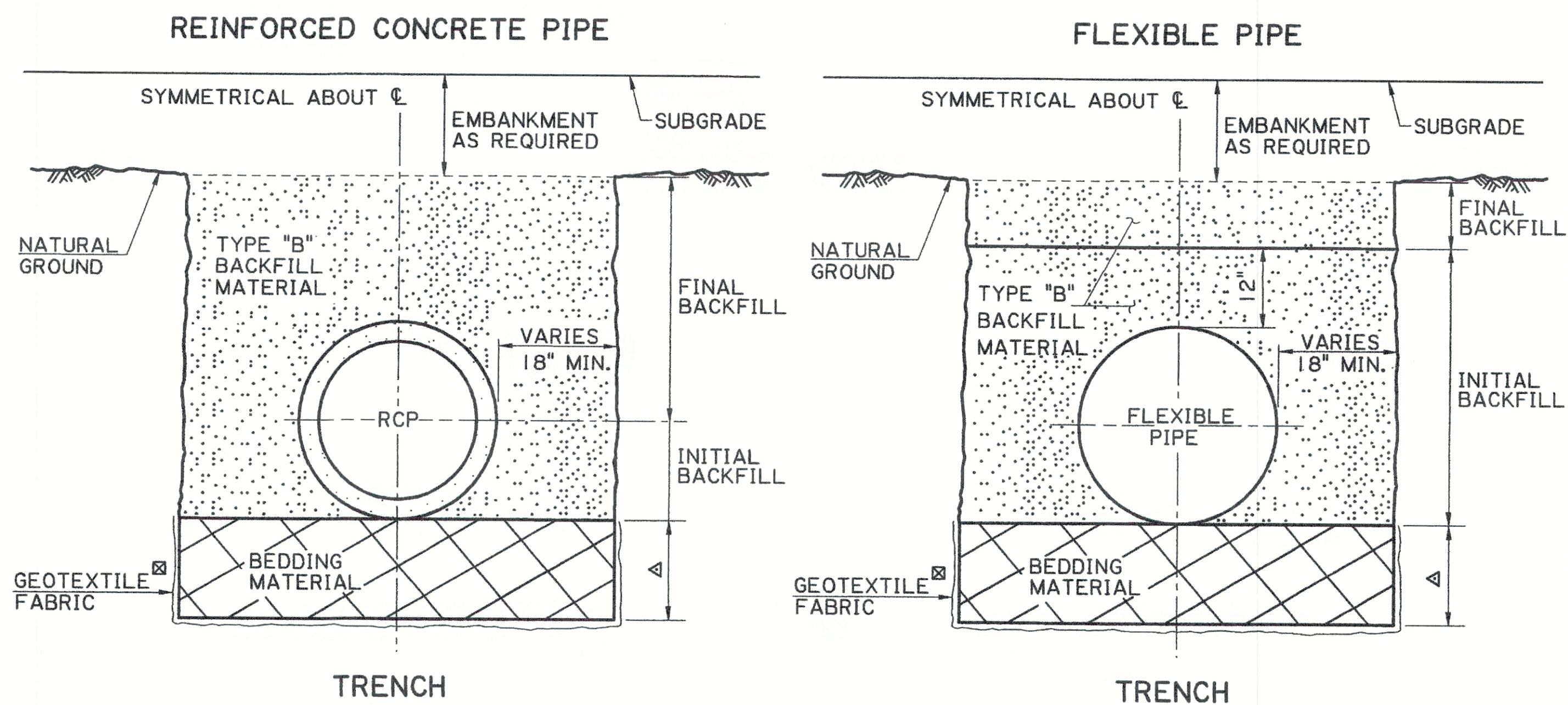
## FOR FLEXIBLE PAVEMENTS ② ③



- ② APPLIES TO PIPE CROSSING THE CENTERLINE OF NEW OR EXISTING ROADWAYS
- ③ ALSO APPLIES UNDER RIGID PAVEMENTS FOR PIPES CROSSING THE CENTERLINE OF NEW OR EXISTING PAVEMENTS WHEN THE PROJECT IS BID USING A RIGID VS FLEXIBLE ALTERNATE (A + B + C) BID MODEL.
- △ THICKNESS AS SHOWN ON PLANS (6" MIN.) OR AS DIRECTED BY THE PROJECT ENGINEER

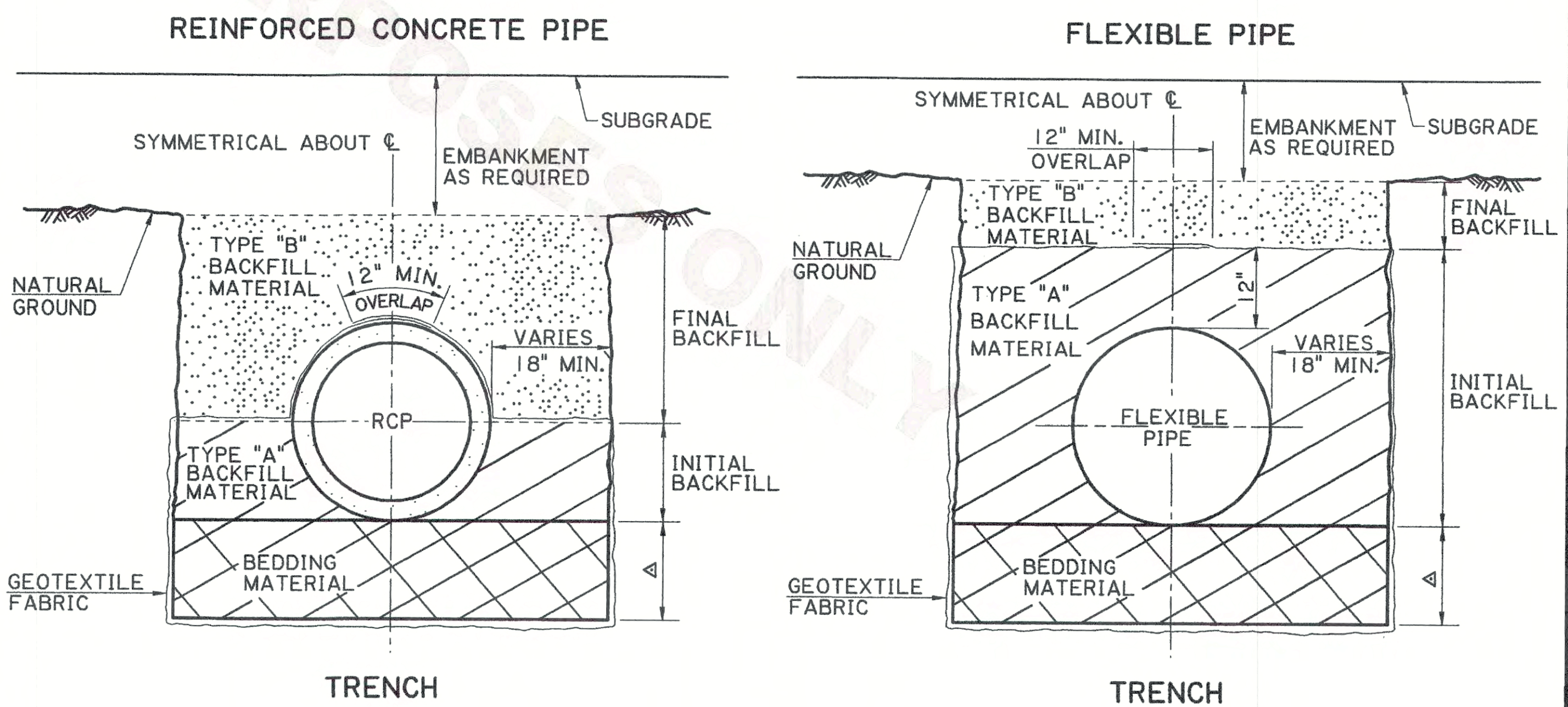
## TRENCH INSTALLATION

① FOR RIGID PAVEMENTS, FLEXIBLE PAVEMENTS OR OTHER AREAS



- ① FOR RIGID PAVEMENTS: APPLIES TO ALL PIPE UNDER RIGID PAVEMENT, EXCEPT AS NOTED FOR FLEXIBLE PAVEMENT NOTE ③ BELOW.
- FOR FLEXIBLE PAVEMENTS: APPLIES TO PIPES THAT DO NOT CROSS THE CENTERLINE OF NEW OR EXISTING ROADWAY
- FOR OTHER AREAS: APPLIES TO PIPES IN NONPAVED AREAS OR PAVED AREAS THAT SERVE AS DRIVEWAYS OR SHOULDERS
- ☒ IF DIRECTED BY THE PROJECT ENGINEER, GEOTEXTILE FABRIC WILL BE INSTALLED AROUND THE TYPE "B" BACKFILL AND PAID UNDER THE PAY ITEM FOR GEOTEXTILE FABRIC, SECTION 711 OR 203 OF LA DOTD STANDARD SPECIFICATIONS OR BY CHANGE ORDER.

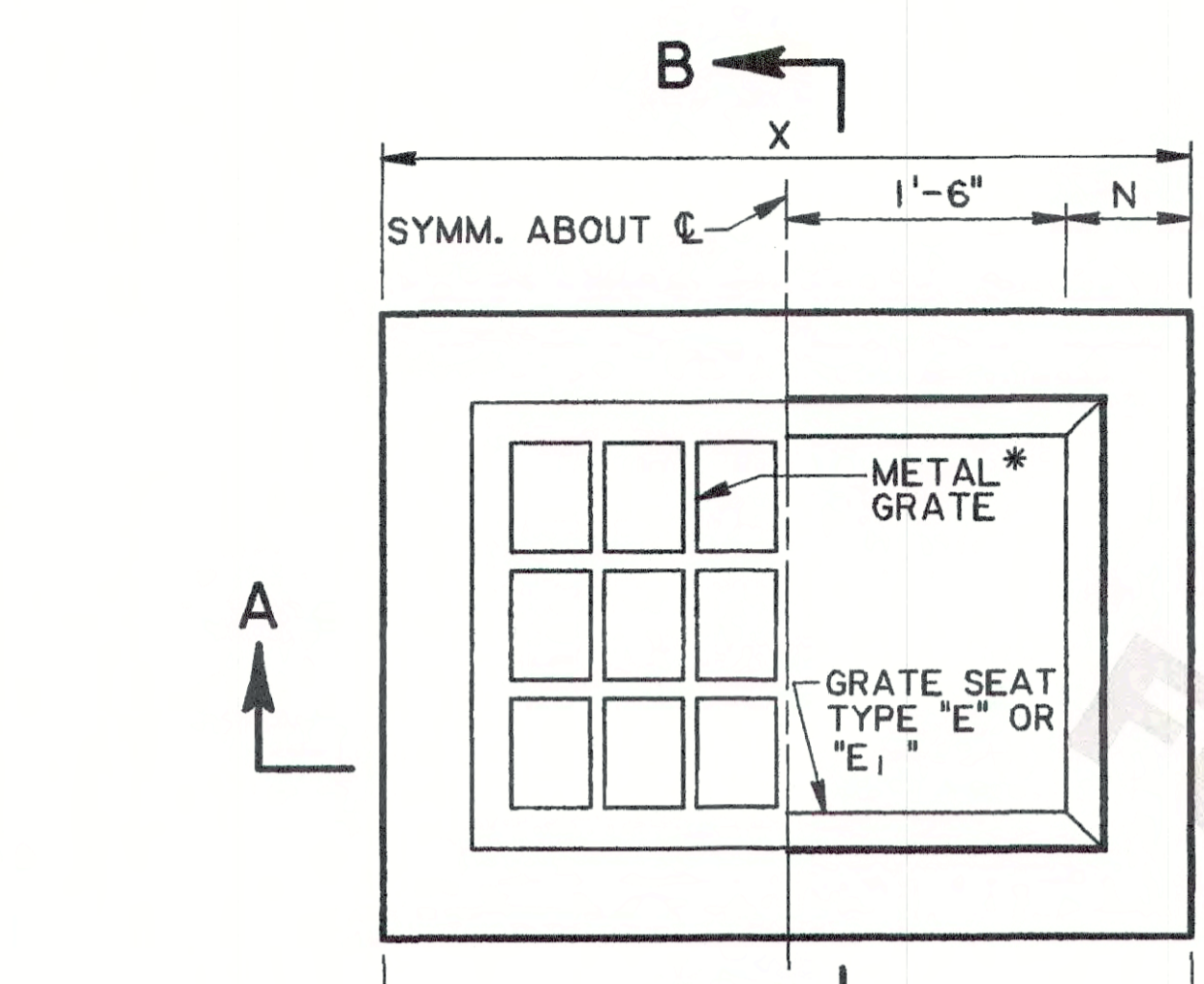
## FOR FLEXIBLE PAVEMENTS ② ③



- ② APPLIES TO PIPE CROSSING THE CENTERLINE OF NEW OR EXISTING ROADWAYS
- ③ ALSO APPLIES UNDER RIGID PAVEMENTS FOR PIPES CROSSING THE CENTERLINE OF NEW OR EXISTING PAVEMENTS WHEN THE PROJECT IS BID USING A RIGID VS FLEXIBLE ALTERNATE (A + B + C) BID MODEL.
- △ THICKNESS AS SHOWN ON PLANS (6" MIN.) OR AS DIRECTED BY THE PROJECT ENGINEER

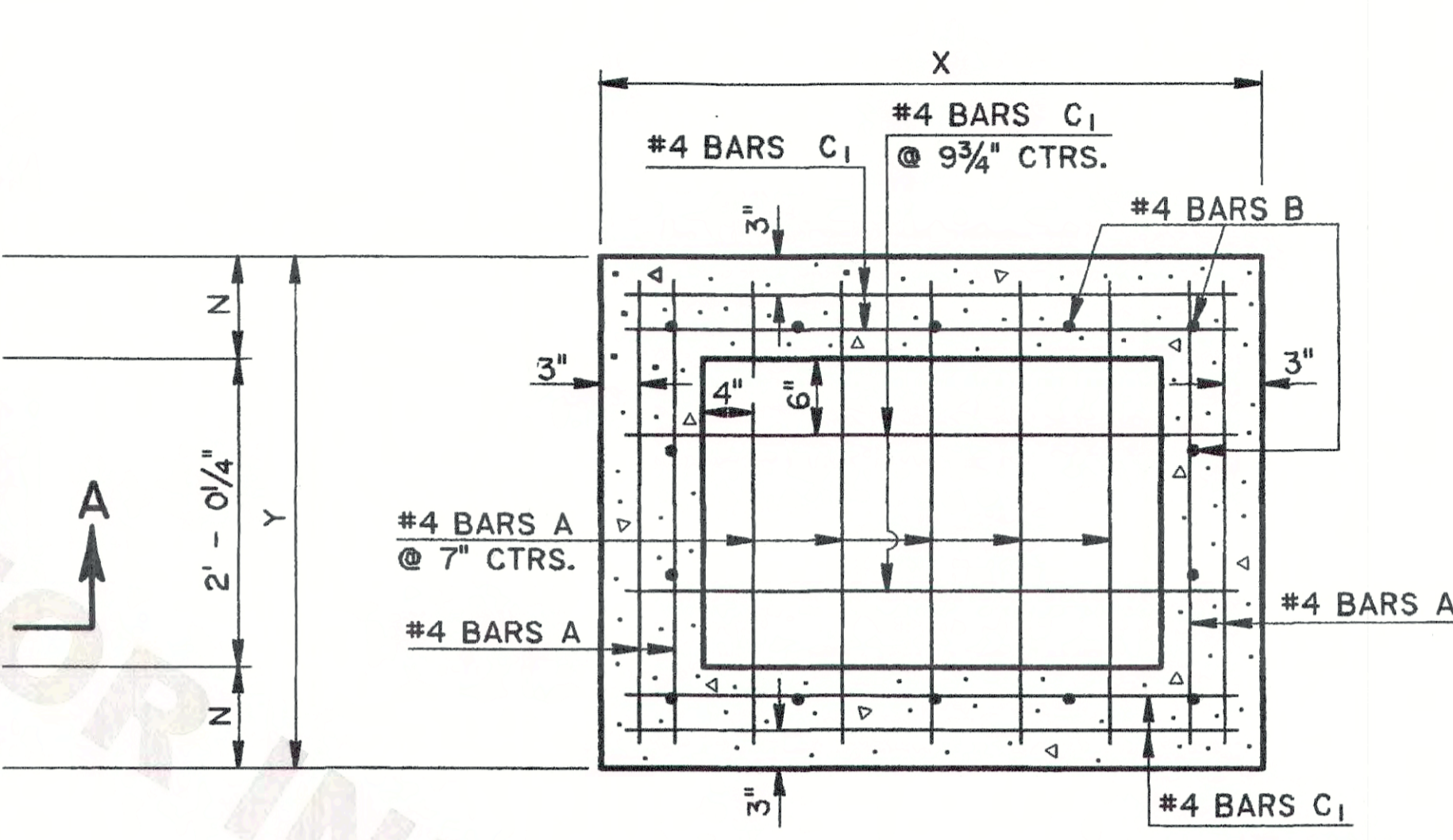
SHEET NUMBER		PARISH		FEDERAL PROJECT		STATE PROJECT	
DESIGNED	JDK	CHECKED	JDK	DATE	6-8-71	2 OF 2	
REVISION DESCRIPTION							
8-22-07	REVISION TO COMPLY WITH CURRENT SPECIFICATIONS						
1-8-07	ADDED FINAL AND INITIAL BACKFILL						
7-11-05	REDAFTED, REVISED FOR TYPE A & B BACKFILL						
DATE	BY	DATE: 8-22-07					
APPROVED BY	DATE: 8-22-07						
CHIEF ENGINEER	DATE: 8-22-07						
<b>BEDDING AND BACKFILL FOR DRAINAGE STRUCTURES</b>							
HYDRAULICS SECTION							





**PLAN**

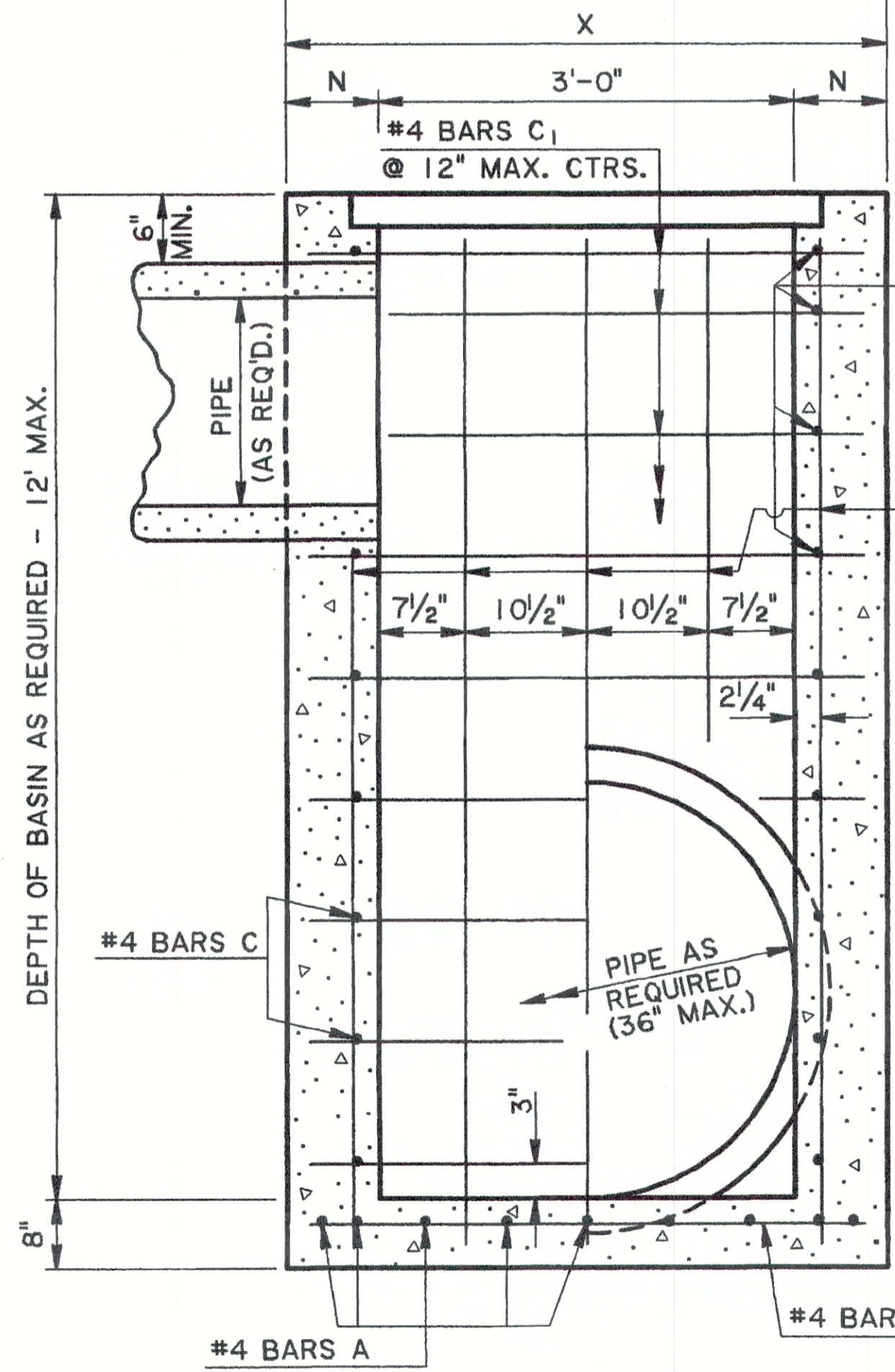
\* GRATE TO BE TYPE "B" OR "C"  
TYPE "B" SHOWN.



**HORIZONTAL SECTION**

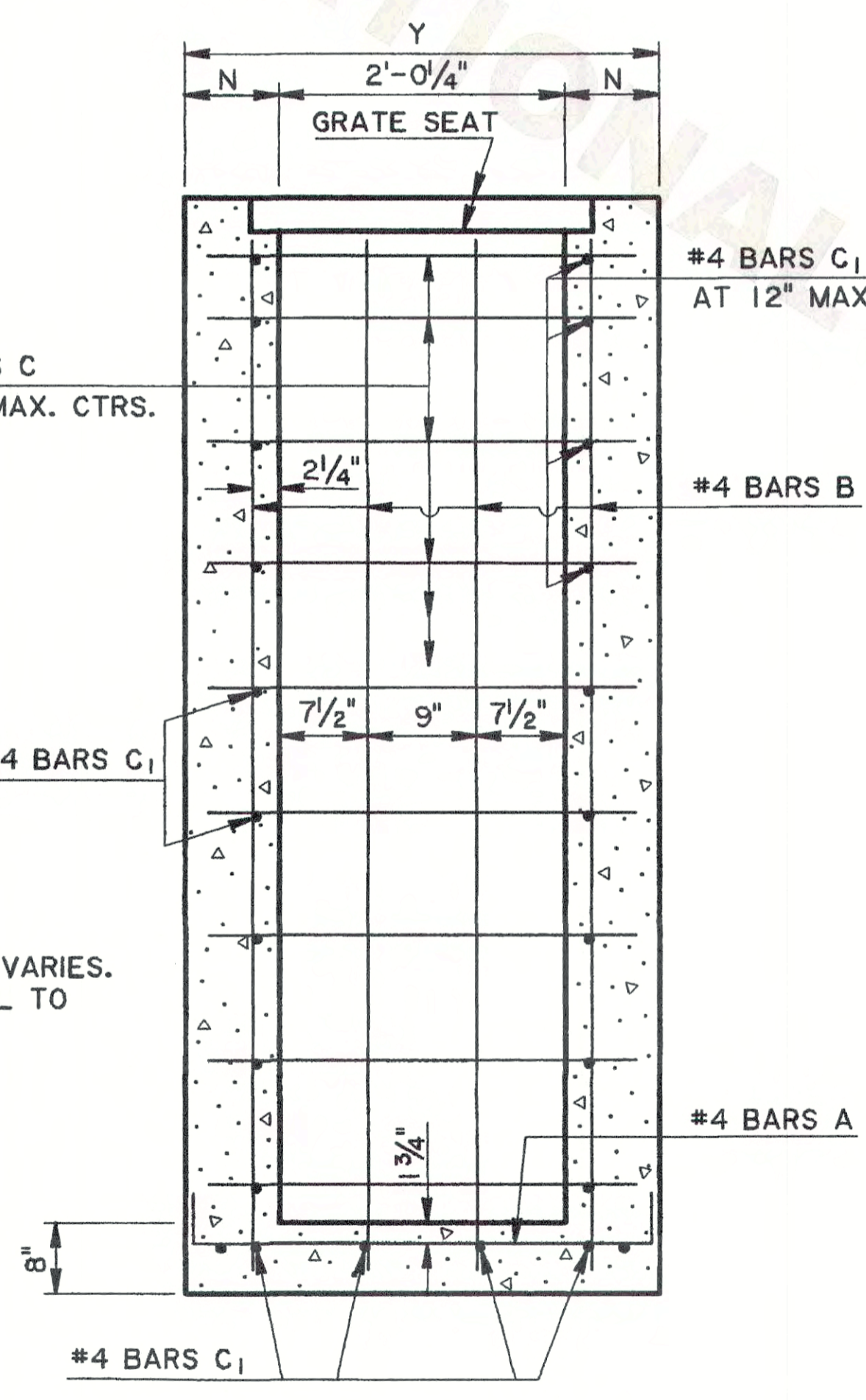
SHOWING BOTTOM SLAB REINFORCING STEEL

NOTE: TYPE "B" GRATE TO BE USED WHERE NO PEDESTRIAN TRAFFIC IS EXPECTED.  
TYPE "C" GRATE TO BE USED WHERE PEDESTRIAN TRAFFIC IS EXPECTED.



**SECTION A-A**

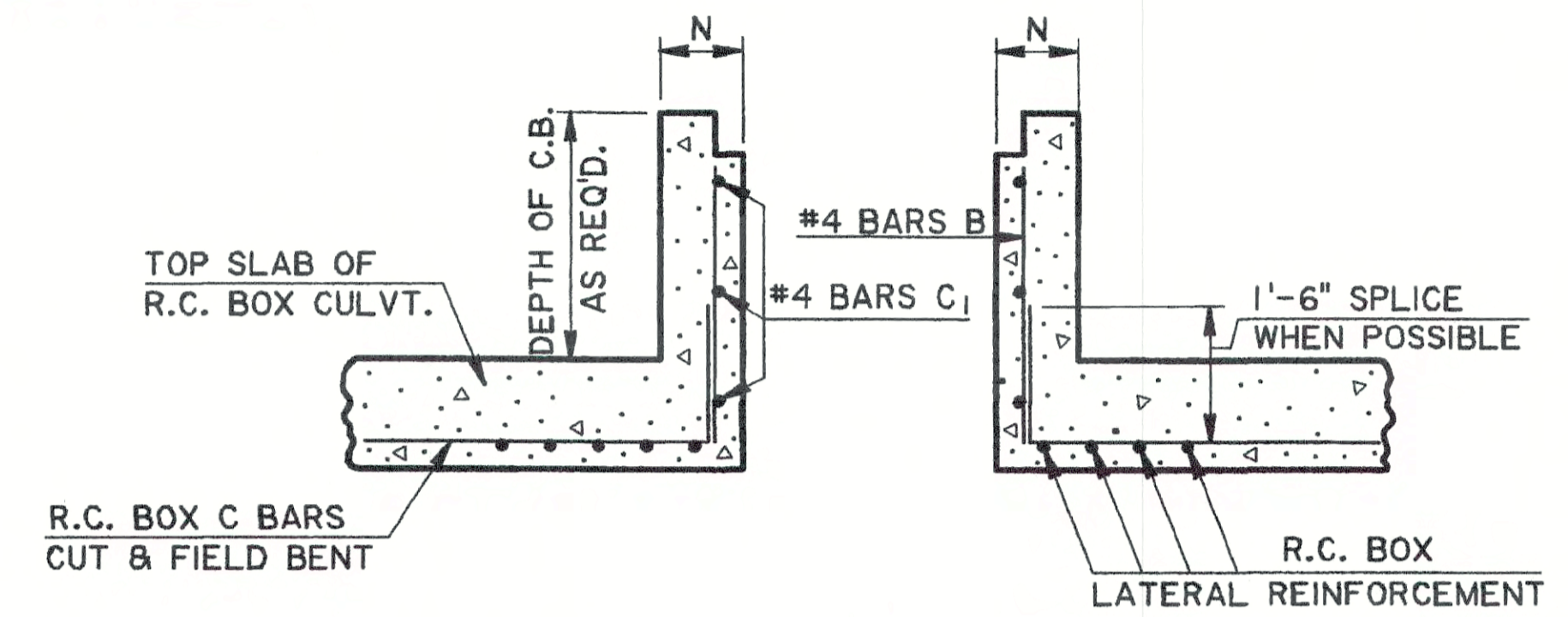
DEPTH OF BASIN AS REQUIRED - 12' MAX.



**SECTION B-B**

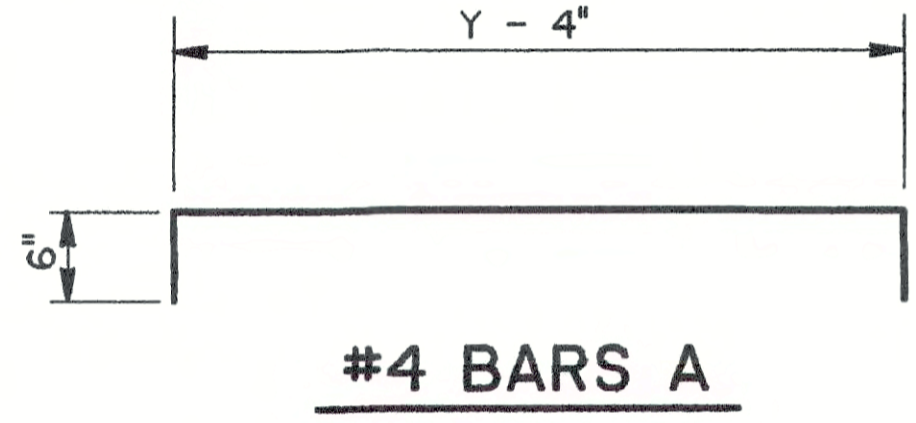
NOTE: PIPE SIZE & LOCATION VARIES. CUT REINFORCING STEEL TO CLEAR, AS REQUIRED.

DIMENSIONS			
DEPTH OF BASIN	N	X	Y
FT.	IN.	FT.- IN.	FT.- IN.
0 - 8	7	4-2	3-2 1/4
8.1 - 12	8	4-4	3-4 1/4

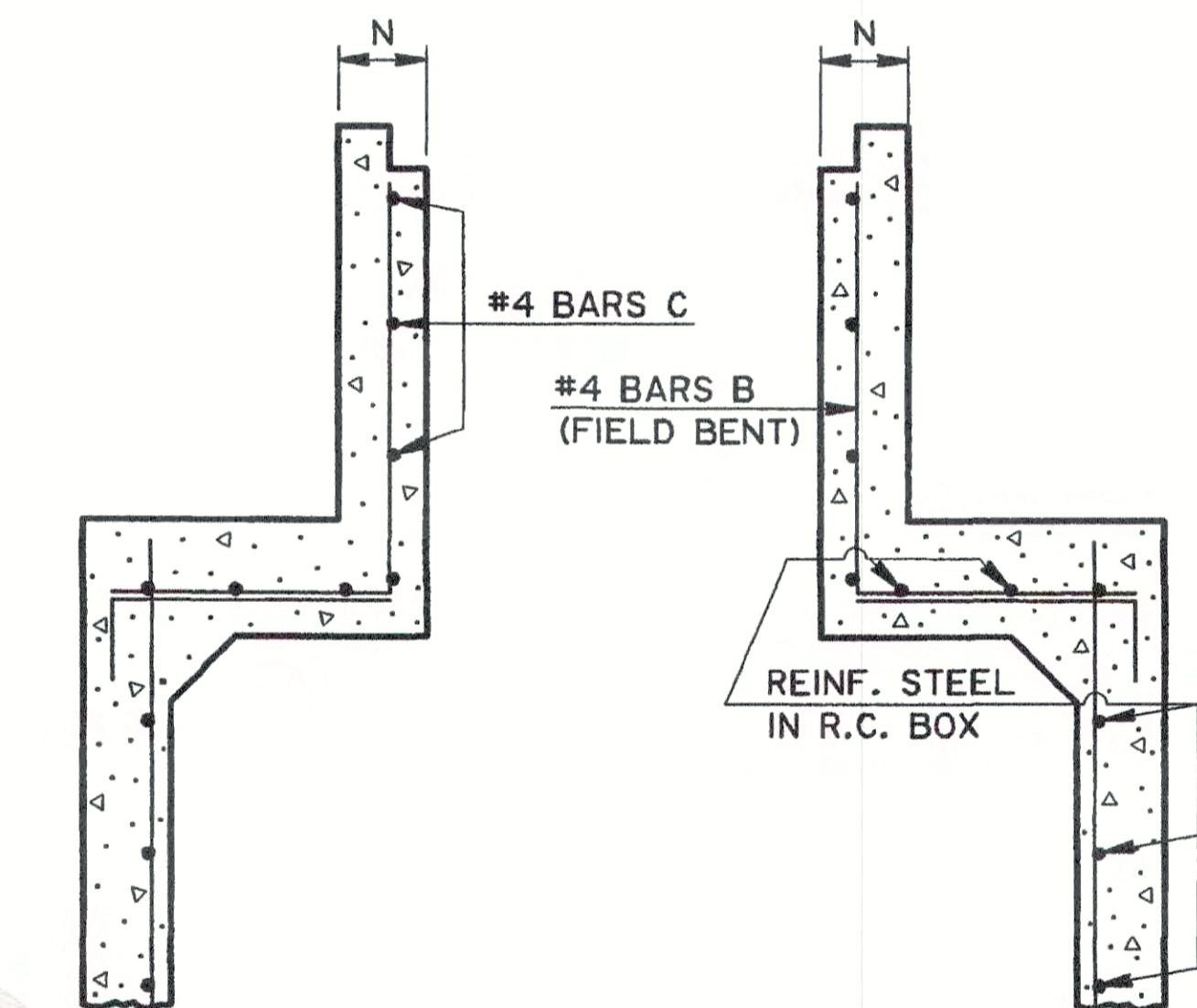


**LONGITUDINAL SECTION**

SHOWING CATCH BASIN USED WITH R.C. BOX CULVERT.



**#4 BARS A**

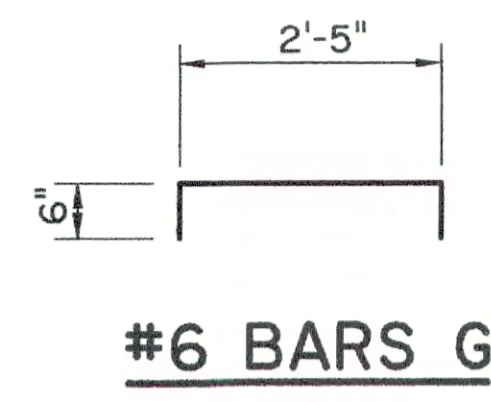
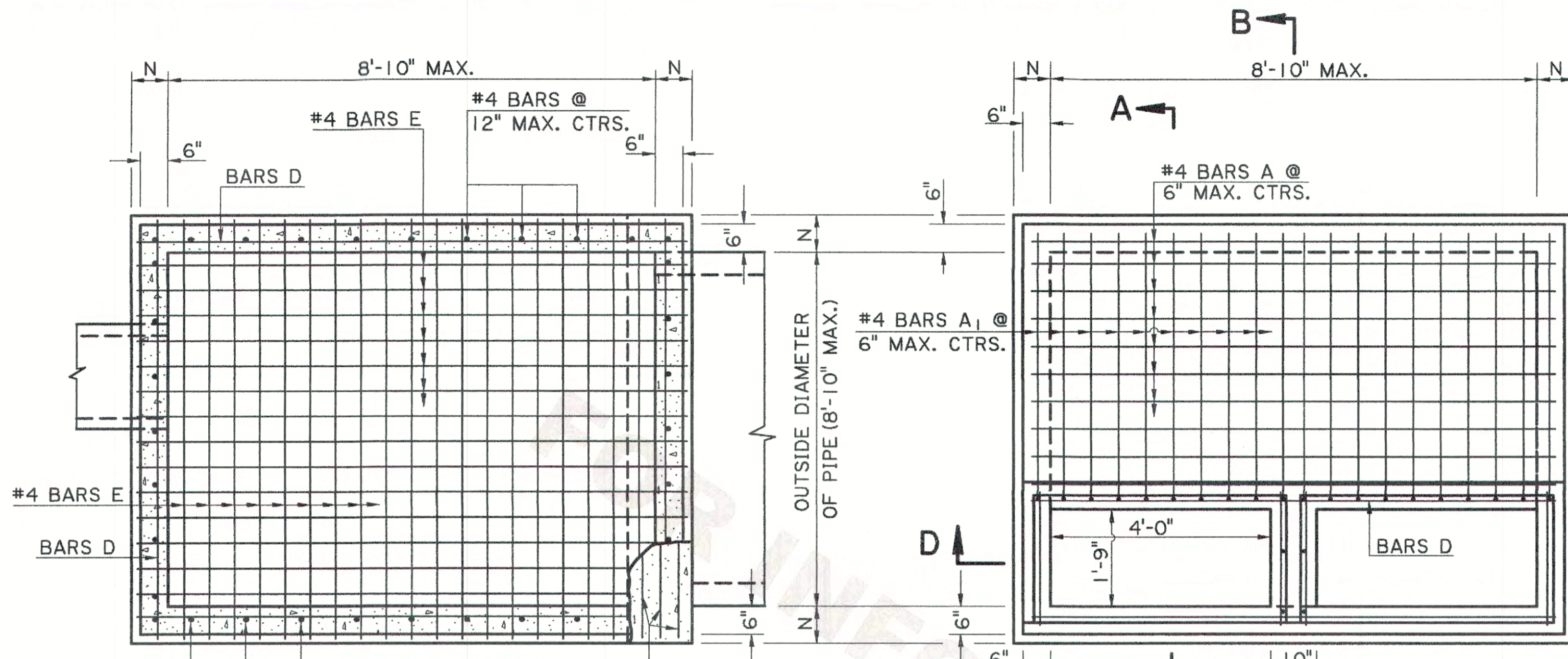


**TRANSVERSE SECTION**

SHOWING CATCH BASIN USED WITH R.C. BOX CULVERT.

**GENERAL NOTES:**  
SECTION 702 OF THE CURRENT DOTD STANDARD SPECIFICATIONS SHALL APPLY.  
DIMENSIONS RELATING TO REINFORCING STEEL ARE TO BAR CENTERS.  
VERTICAL REINFORCING STEEL MAY BE SPLICED. SPLICE LENGTH IS 35 DIAMETERS.  
FOR DETAILS OF GRATE AND SEAT, SEE STD. PLAN MC-01 (TYPE B or C).  
SEE PLANS FOR TYPE OF GRATE TO BE USED FOR EACH CATCH BASIN.



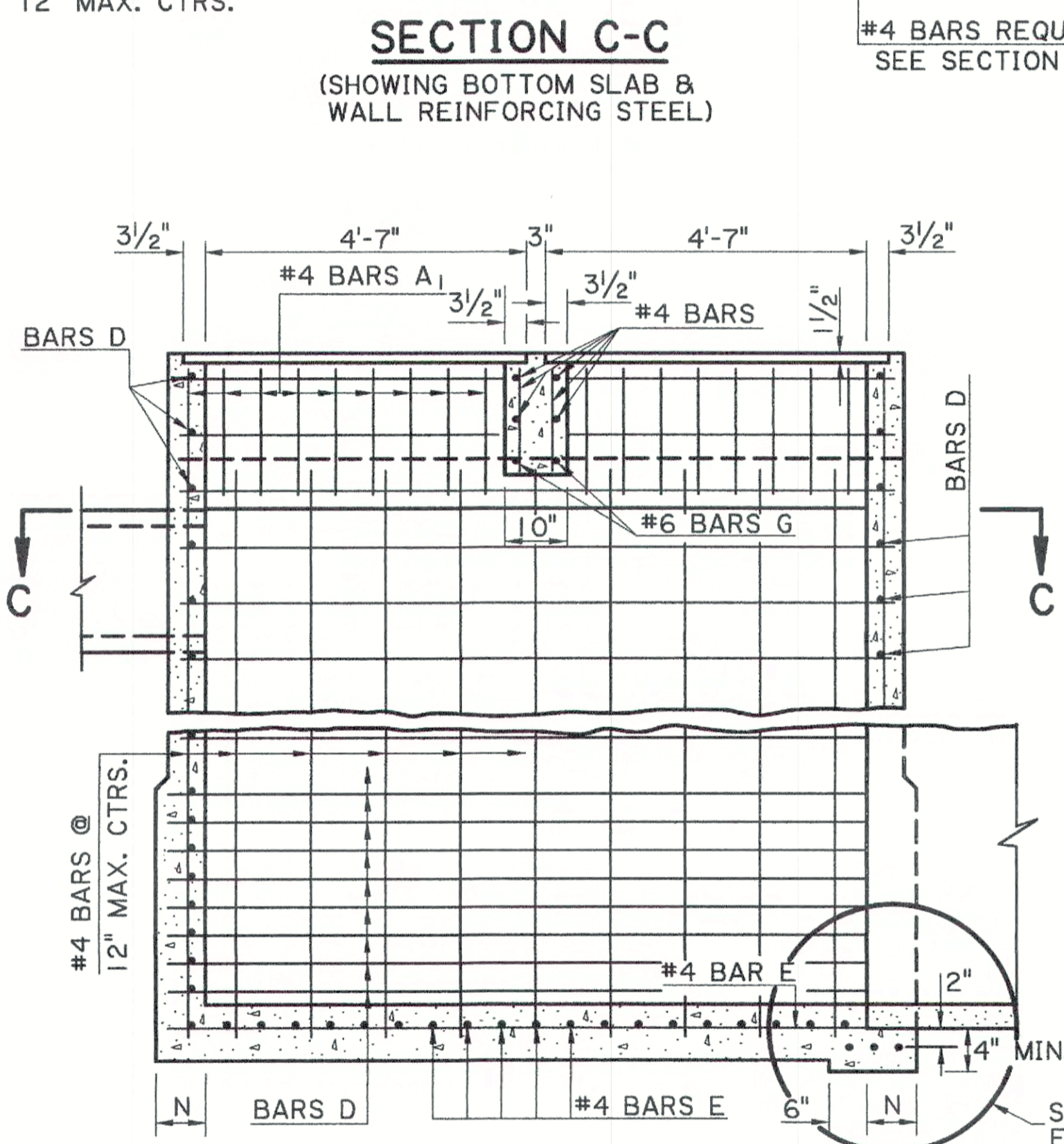


GENERAL NOTES:

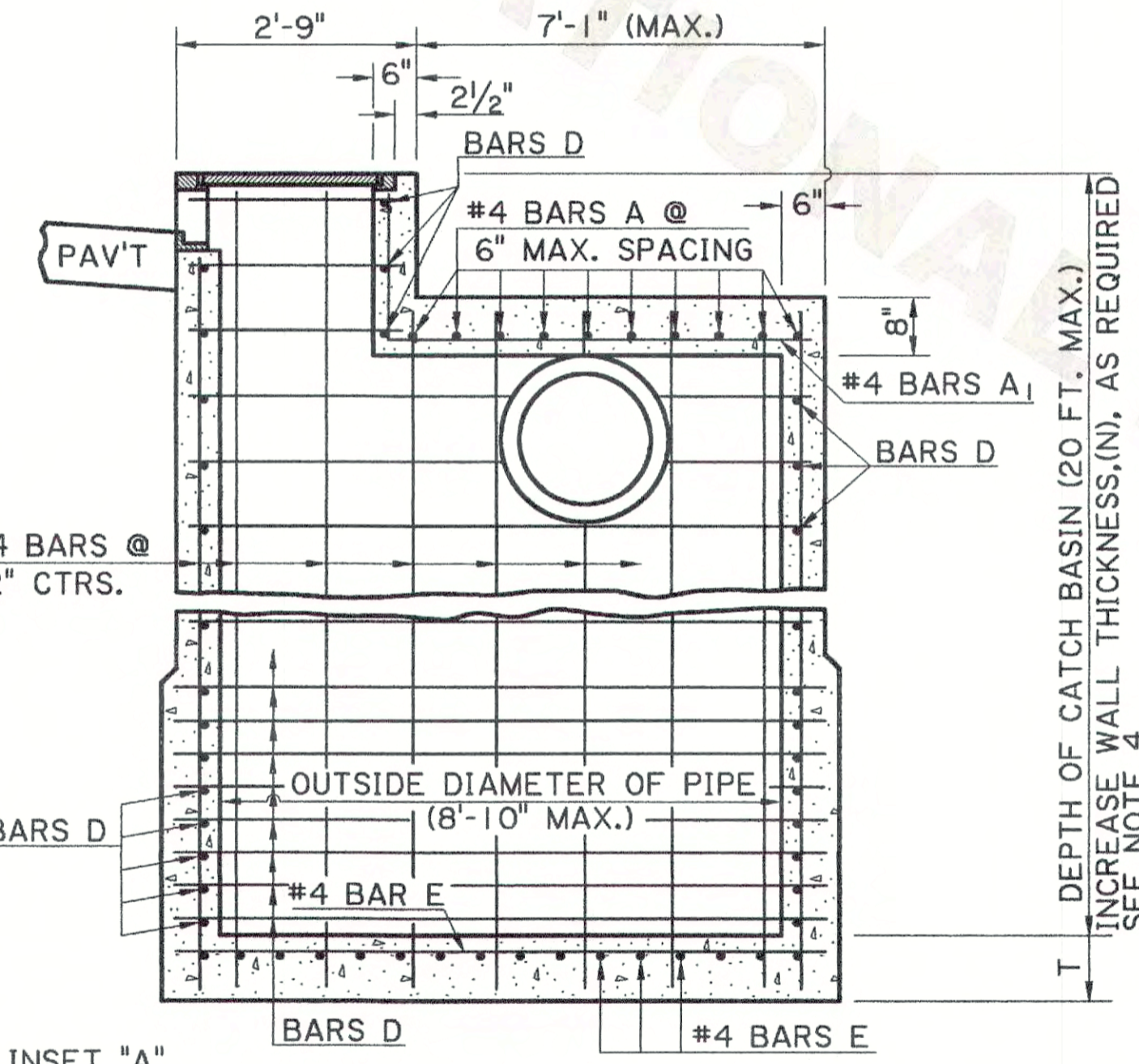
- CATCH BASIN IS DESIGNED ACCORDING TO 4TH ED. 2007 AASHTO LRFD PROCEDURES. SECTION 702 OF THE DOTD STANDARD SPECIFICATIONS SHALL APPLY.
- CONCRETE: ALL CONCRETE SHALL BE CLASS "M" MINOR STRUCTURE. ALL EXPOSED EDGES SHALL BE CHAMFERED 3/4 IN. EXCEPT AS NOTED.
- REINFORCING STEEL: REINFORCING STEEL SHALL BE GRADE 60. DIMENSIONS ARE TO BAR CENTERS. MINIMUM COVER FOR REINFORCING BARS SHALL BE 2 IN. CLEAR UNLESS SHOWN OTHERWISE.
- AS DEPTH INCREASES THE WALL AND SLAB THICKNESSES AND REINFORCEMENT SHOULD BE INCREASED AS SHOWN IN THE TABLE BELOW. THE CONTRACTOR HAS THE OPTION TO PROVIDE THE MAXIMUM REQUIRED WALL THICKNESS FOR THE FULL DEPTH OF THE STRUCTURE.

DEPTH RANGE	WALLS		BOTTOM SLAB	
	N IN.	D BARS SIZE SPAC.,IN.	T IN.	E BARS SIZE SPAC.,IN.
0' TO 7'	6.0	4 4.5	6.0	4 7.5
7'-1" TO 11'	7.0	4 5.0	6.5	4 5.5
11'-1" TO 18'	8.0	5 5.5	7.5	4 4.5
18'-1" TO 20'	8.5	5 5.5	8.0	4 4.0

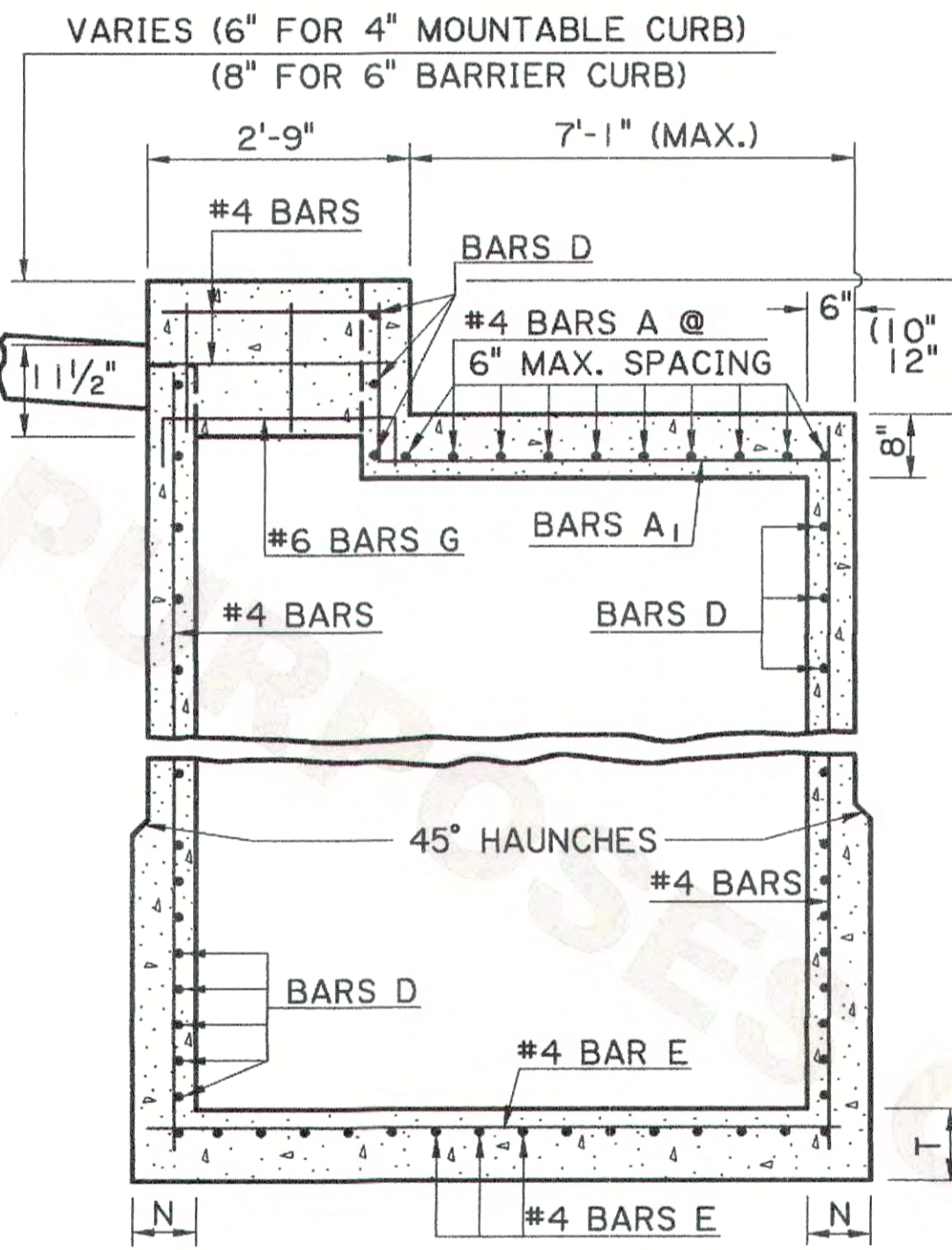
- FOR DETAILS OF METAL COVER, FRAME, AND GRATE, SEE STD. PLAN MC-01, TYPE H & TYPE I.
- THE CONTRACTOR WILL NOT POUR ABOVE THE BOTTOM OF THE SLAB UNTIL THE PAVING ADJACENT TO THE CATCH BASIN HAS BEEN COMPLETED.



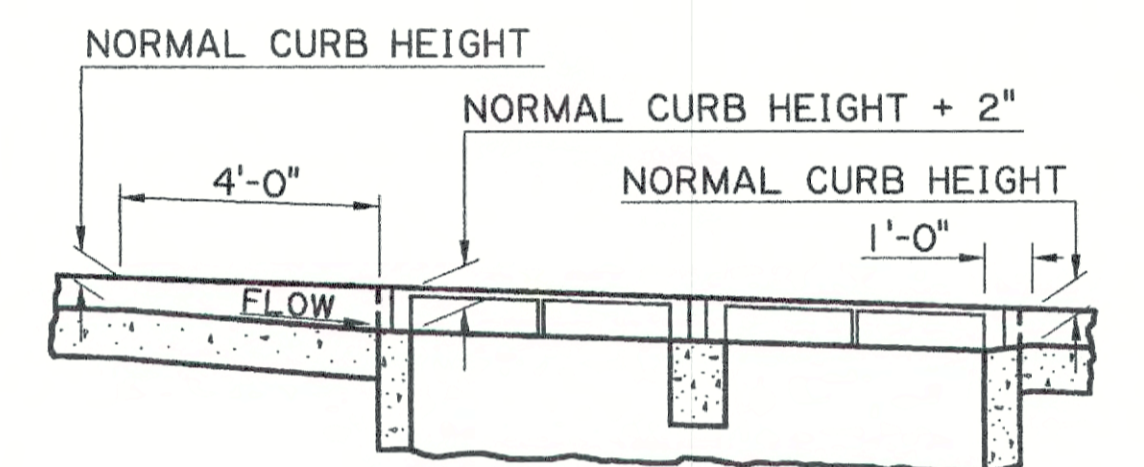
SECTION D-D



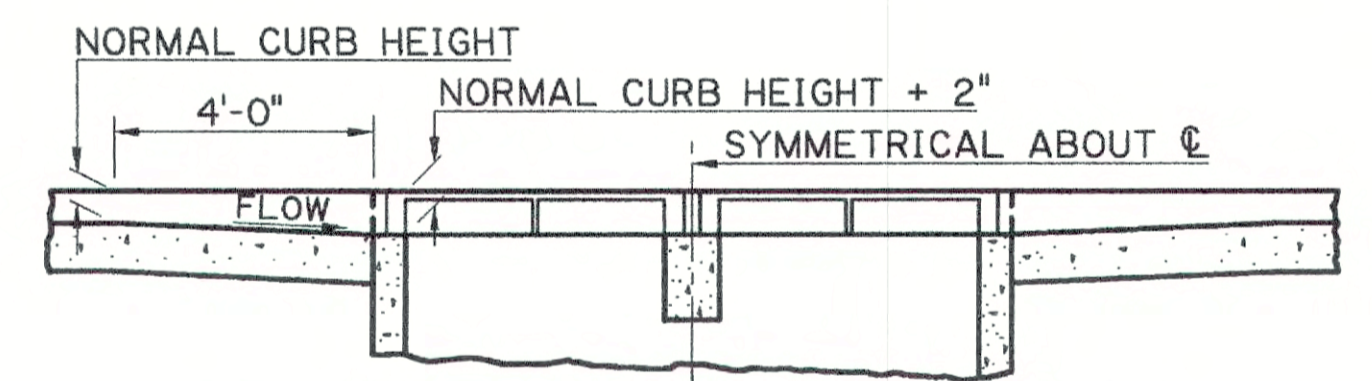
SECTION A-A



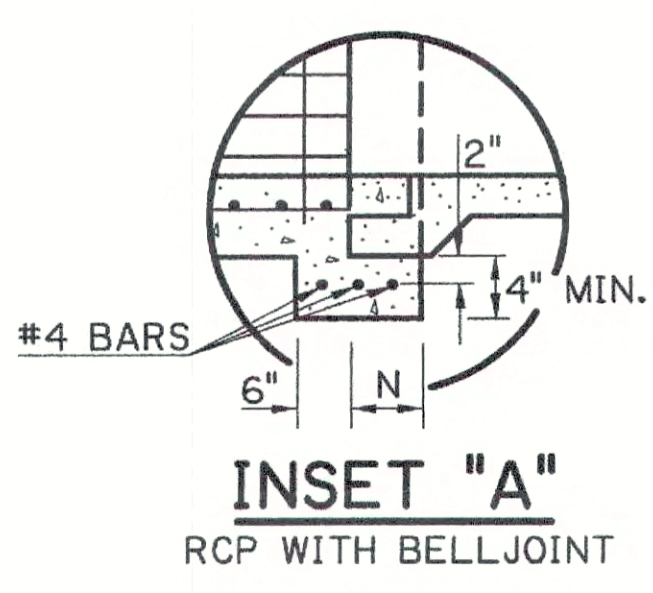
SECTION B-B



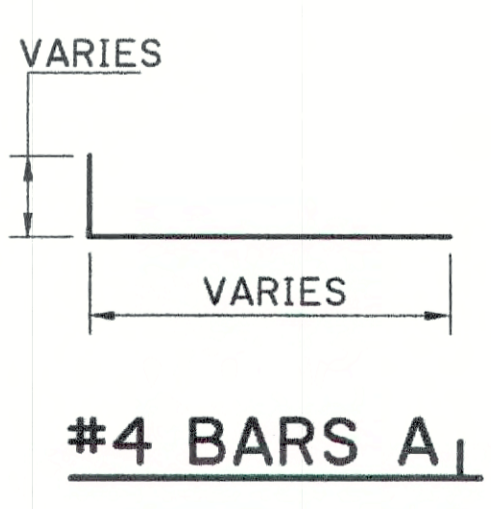
TRANSITION IN CURB HEIGHT CATCH BASIN ON A GRADE



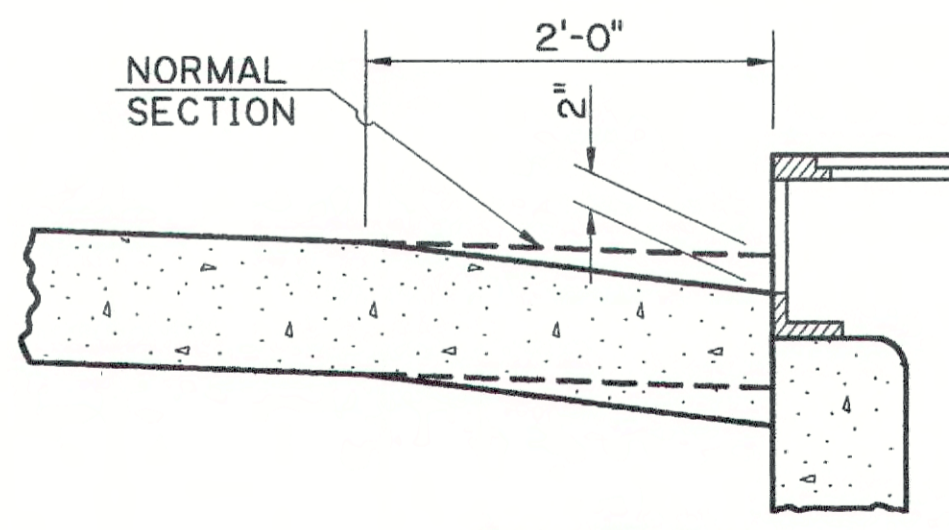
TRANSITION IN CURB HEIGHT CATCH BASIN AT LOW POINT



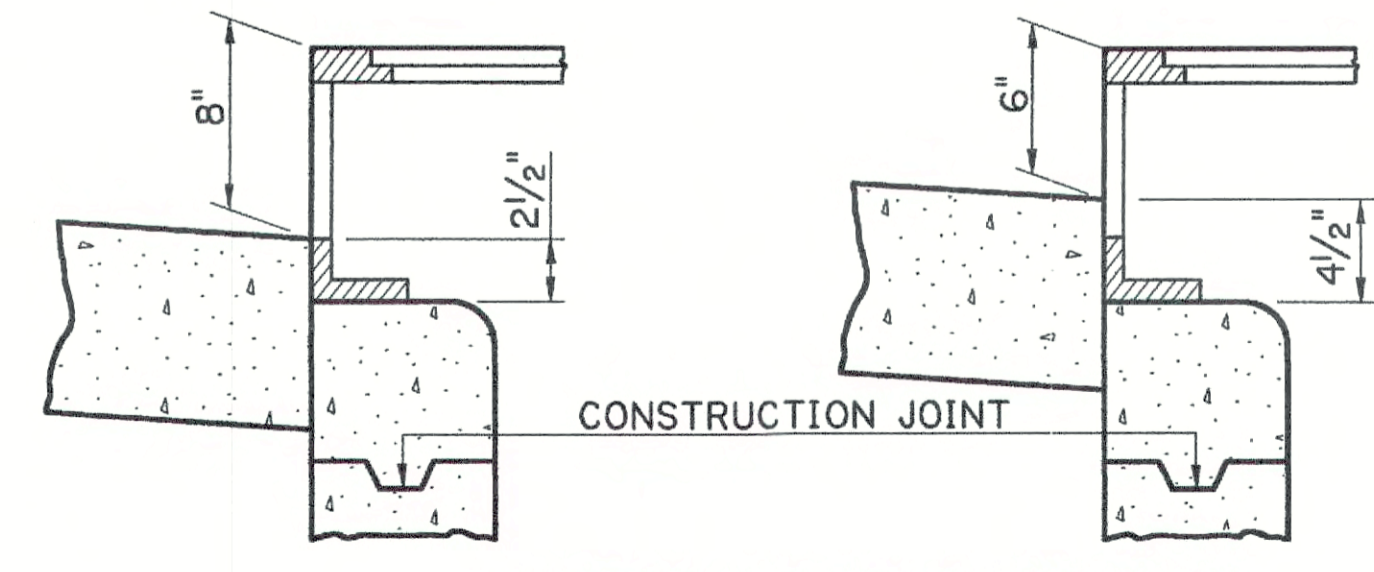
INSET "A" RCP WITH BELLJOINT



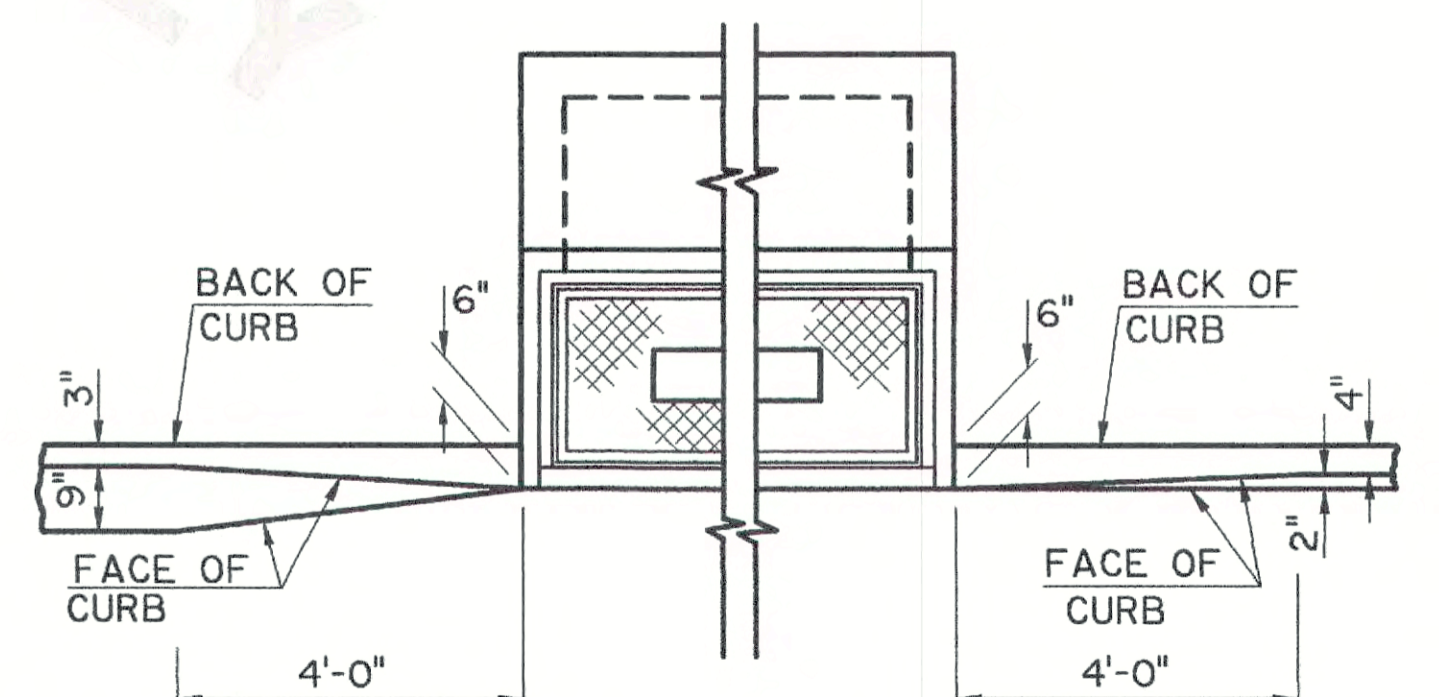
#4 BARS A1



SECTION SHOWING PAVEMENT SUMP TYPICAL



INLET CONFIGURATION  
WHEN USED WITH 6" BARRIER CURB  
WHEN USED WITH 4" MOUNTABLE CURB

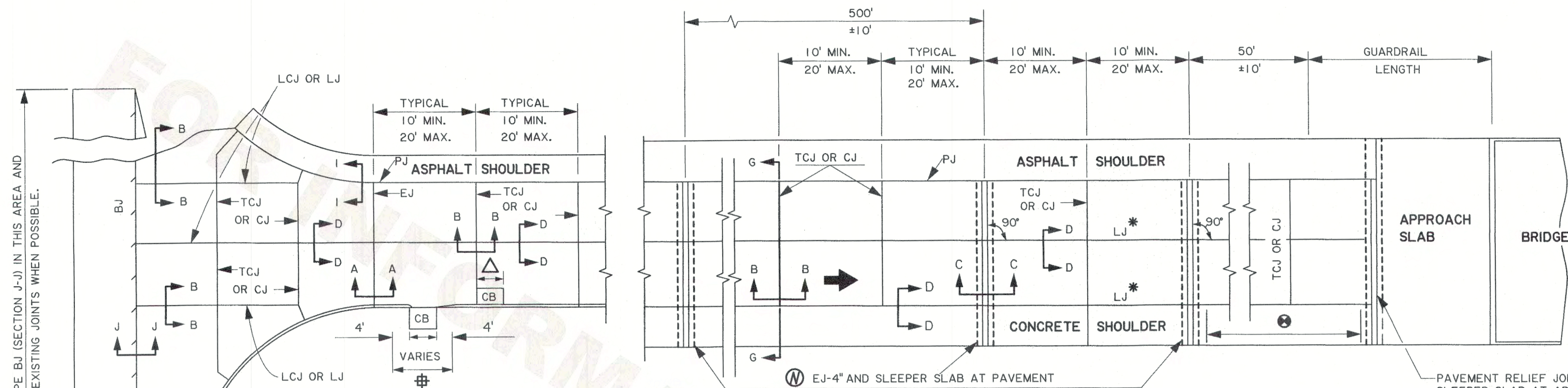


TRANSITION IN CURB WIDTH (TYPICAL)

SHEET NUMBER	PARISH	LAB	DESIGNED	WNR	NO.
	FEDERAL PROJECT	CHECKED	PA	REV. MAX. DIMENSION IN SECTION A-A	DATE
	STATE PROJECT	DETAILED	KAJ	CHANGED SHEET BORDER AND ADDED NAME	NO.
	PROJECT	CHECKED	PA	DATE	NO.
		DATE	11-15-90		
		SHEET	1 OF 1		
<p>CONCRETE CATCH BASIN DOUBLE CURB OPENING 4" Mountable Or 6" Barrier Curb Max. Size: 8'-10" x 8'-10", Max. Depth 20"</p>					
<p>HYDRAULICS SECTION</p>					



**PLAN VIEW**  
**ROADWAY SHOWING JOINTS**



- JOINT ABBREVIATIONS:**
- LJ - LONGITUDINAL JOINT
  - EJ - TRANSVERSE EXPANSION JOINT
  - TCJ - TRANSVERSE CONTRACTION JOINT
  - CJ - CONSTRUCTION JOINT
  - LCJ - LONGITUDINAL CONSTRUCTION JOINT
  - LBJ - LONGITUDINAL BUTT JOINT
  - BJ - TRANSVERSE BUTT JOINT
  - PJ - PAVEMENT EDGE SEAL JOINT

USE TYPE BJ (SECTION J-J) IN THIS AREA AND MATCH EXISTING JOINTS WHEN POSSIBLE.

USE TYPE LBJ (SECTION H-H) IN THIS AREA AND MATCH EXISTING JOINTS AT EQUAL SPACES NOT EXCEEDING 20' MAX.

- \* USE TYPE LCJ JOINT WITH SPLIT SLAB CONSTRUCTION.
  - ⊕ WHEN POSSIBLE, AT CATCH BASINS NO JOINTS SHALL BE PLACED IN THE LIMITS SHOWN.
  - △ TRANSVERSE JOINTS NEAR CATCH BASIN (CB-07, 08 & 09) THAT EXTEND INTO THE PAVEMENT SHALL BE ADJUSTED TO COINCIDE WITH ONE EDGE OF THE CATCH BASIN OR THE CENTER OF THE CATCH BASIN. SEE DETAIL E (SHEET 3 OF 3).
  - Ⓜ SEE SECTION C-C (SHEET 2 OF 3) AND DETAIL "G" (SHEET 3 OF 3) FOR EJ-4" JOINT, SLEEPER SLAB AND DRAINAGE DETAILS. (REQUIRED (3) PLACES.)
  - ⊙ CJ OR TCJ JOINTS AT 20' MAX. CTRS.
- NOTE:** MAXIMUM JOINT SPACING AT 18' WHEN PAVEMENT IS PLACED ON PERMEABLE BASE. (SEE SECTION 307)

**TABLE I - SCHEDULE OF DIMENSIONS**  
(ALL DIMENSIONS ARE IN INCHES)

SLAB THICKNESS "T"	SMOOTH DOWEL BARS ⊙			DEFORMED TIE BARS ⊠			KEYWAY ⊕	
	SIZE (DIA.)	LENGTH	SPACING	SIZE (DIA.)	LENGTH	SPACING	A ±1/4"	B ±1/4"
8	1 1/4	18	12	1/2	24	24	2 1/2	1 1/4
9	1 1/4	18	12	1/2	24	24	2 1/2	1 1/4
10	1 1/2	18	12	1/2	24	24	2 1/2	1 1/4
11	1 1/2	18	12	5/8	30	24	2 1/2	1 1/4
12	1 1/2	18	12	5/8	30	24	3	1 1/2
13	1 1/2	18	12	5/8	30	24	3	1 1/2
14	1 1/2	18	12	5/8	30	24	3	1 1/2

**NOTES:**

- 1 PAVEMENT EDGES SHALL BE SLIGHTLY ROUNDED (1/4" APPROX.).
- 2 ASPHALT CONCRETE SHOULDER: THE SHOULDER JOINTS SHALL BE SAW CUT AND CONSTRUCTED IN ACCORDANCE WITH SECTION 1-1 (SHEET 2 OF 3).
- 3 FOR SECTIONS A-A THROUGH J-J (SEE SHEET 2 OF 3).
- 4 ALL JOINTS TO BE USED WHERE SHOWN ON THIS SHEET OR AS SHOWN ELSEWHERE IN THE PLANS OR AS OTHERWISE DIRECTED BY THE ENGINEER.
- 5 ON TYPE EJ ALTERNATE JOINTS, SPOT WELD ALTERNATE ENDS OF DOWEL BARS TO DOWEL BASKETS AND PLACE EXPANSION TUBES ON FREE ENDS OF DOWEL BARS.
- 6 FOR DESIGN SPEEDS GREATER THAN 45MPH: SAW CUT AND CONSTRUCT THE TYPE LJ, TCJ, AND CJ JOINTS AS IN DETAILS "A, B OR C" TO A DEPTH OF T/3 INCHES. THOROUGHLY CLEAN THE JOINT FACES BY SANDBLASTING; FOLLOWED BY AN OIL-FREE AIR JET IMMEDIATELY PRIOR TO SEALING WITH A Poured OR EXTRUDED SEALANT CONFORMING TO SECTION 1005.
- 7 FOR DESIGN SPEEDS OF 45MPH OR LESS:
  - A. SAW CUT AND SEAL TYPE LJ JOINTS AS DESCRIBED IN NOTE 6.
  - B. CONSTRUCT TYPE TCJ OR CJ JOINTS AS DESCRIBED IN NOTE 6 OR CONSTRUCT WITH A REMOVABLE FORMING DEVICE AS SPECIFIED IN DETAIL "C" (SHEET 3 OF 3). THOROUGHLY CLEAN THE JOINT FACES BY SAND-BLASTING; FOLLOWED BY AN OIL-FREE AIR JET IMMEDIATELY PRIOR TO SEALING WITH A Poured OR EXTRUDED SEALANT CONFORMING TO SECTIONS 601 AND 1005. WITH A COMBINATION JOINT FORMER/SEALER AS SHOWN IN DETAIL "D" (SHEET 3 OF 3), THE SEALER SHALL CONFORM TO SECTION 1005 AND BE INSTALLED IN ACCORDANCE WITH SECTION 601 AND NO ADDITIONAL SEALANT IS REQUIRED.
- 8 EXCEPT AS NOTED BELOW, DOWEL BARS & TIE BARS SHALL BE HELD IN PLACE BY SUPPORTS SIMILAR TO THE ONES SHOWN, OR APPROVED EQUALS. APPROVED MECHANICAL PLACEMENT OF DOWEL BARS AND TIE BARS WILL BE ALLOWED WITH ALL PAVING METHODS.
- 9 INSTALL GEOTEXTILE FABRIC (TYPE B, C, OR D) UNDER ALL TCJ, CJ, AND EJ ALTERNATE JOINTS WHEN CONCRETE PAVEMENT IS PLACED ON ANYTHING OTHER THAN ASPHALT BASE. WHEN DOWEL BARS ARE MECHANICALLY IMPLANTED, THE GEOTEXTILE FABRIC SHALL BE ANCHORED TO THE BASE COURSE WITH PINS.
- 10 WHEN CONSTRUCTING CONCRETE CURB AND GUTTER ADJACENT TO NEW P.C.C. PAVEMENT, USE TYPE LCJ JOINT. WHEN ADJACENT TO EXISTING P.C.C. PAVEMENT, USE TYPE LBJ JOINT. THE FIRST LOAD TRANSFER DEVICE SHALL BE INSTALLED 18" FROM THE PAVEMENT EDGE.
- 11 TRANSVERSE EXPANSION JOINTS ARE NOT TO BE USED FOR CONSTRUCTION JOINTS.
- 12 CONCRETE SHOULDERS:
  - A. CONSTRUCT TCJ JOINTS IN ACCORDANCE WITH SECTION B-B (SHEET 2 OF 3).
  - B. CONSTRUCT LCJ JOINTS IN ACCORDANCE WITH TYPE LCJ DETAIL AND LJ JOINTS IN ACCORDANCE WITH TYPE LJ DETAIL. SEE SECTION D-D (SHEET 2 OF 3).
  - C. USE THE MAXIMUM SHOULDER THICKNESS WHEN DETERMINING DOWEL BAR AND TIE BAR SIZES IN TABLE 1.
  - D. WHEN SKEWED JOINTS ARE USED ON MAINLINE PAVING THE SHOULDER TCJ JOINTS MAY BE SKEWED OR CONSTRUCTED AT 90°.
  - E. SHOULDER JOINTS AND JOINT MATERIALS SHALL MATCH THE MAIN LINE.
  - F. HEIGHT OF DOWEL BASKET SHALL BE BASED ON THE THINNEST SHOULDER THICKNESS. VARYING HEIGHT DOWEL BASKETS WILL BE ALLOWED TO KEEP THE DOWEL BAR LOCATED WITHIN TOLERANCE.
- 13 TIE BARS SHALL NOT BE PLACED WITHIN 18" OF CONTRACTION OR EXPANSION JOINTS.



SHEET NUMBER

DESIGNED BY: H. DANG  
CHECKED BY: S. ARDOIN  
DATE: 5-11-2017

CONTROL SECTION: H. DANG  
CHECKED BY: S. ARDOIN  
SERIES NUMBER: 1 OF 3

REVISION OR CHANGE ORDER DESCRIPTION: BY DATE

APPROVED BY: Louis P. Williams  
CHIEF ENGINEER

**PORTLAND CEMENT CONCRETE PAVEMENT DETAILS**

CP-01 - STANDARD PLAN

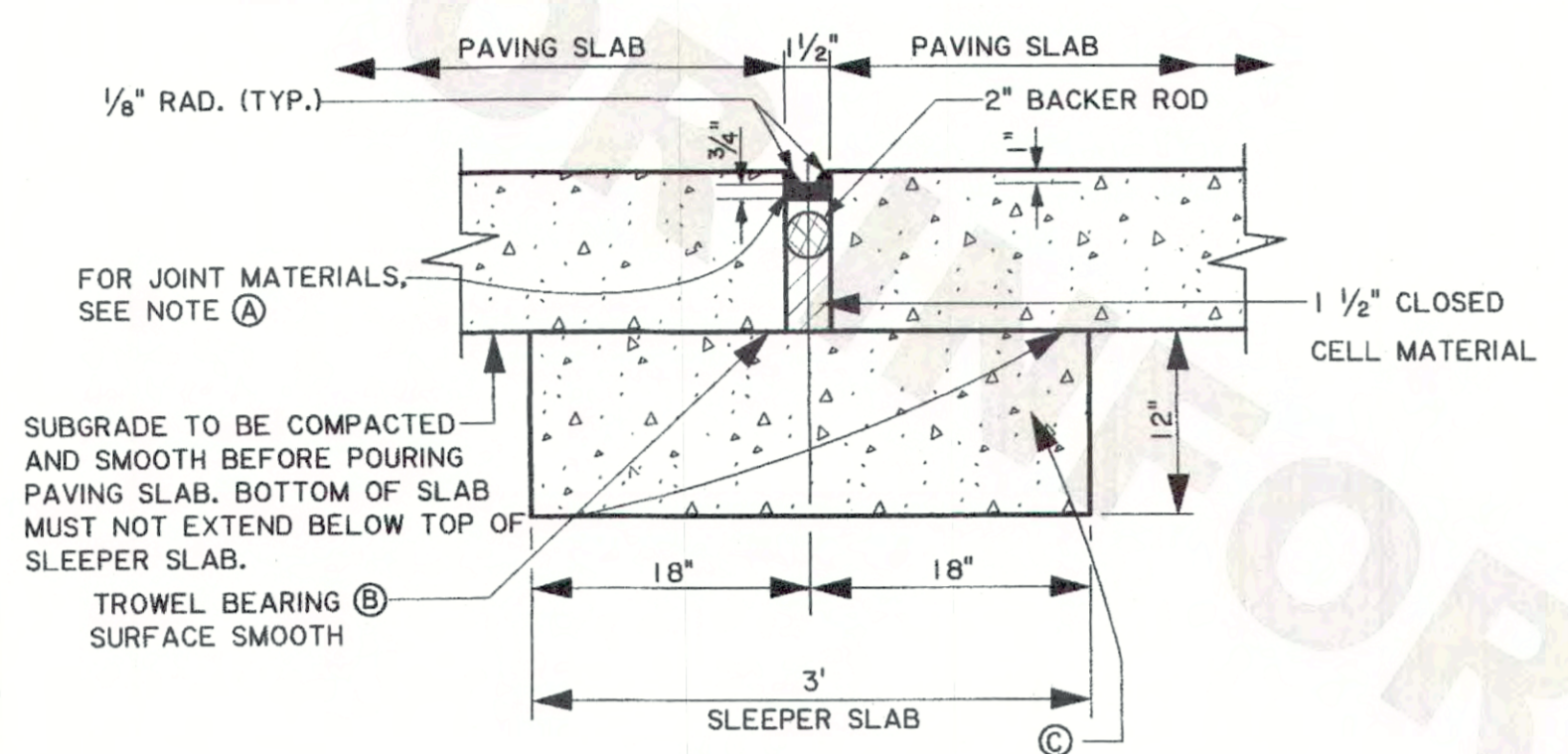
DOTD  
LOUISIANA  
DEPARTMENT OF TRANSPORTATION AND DEVELOPMENT

NOT TO SCALE

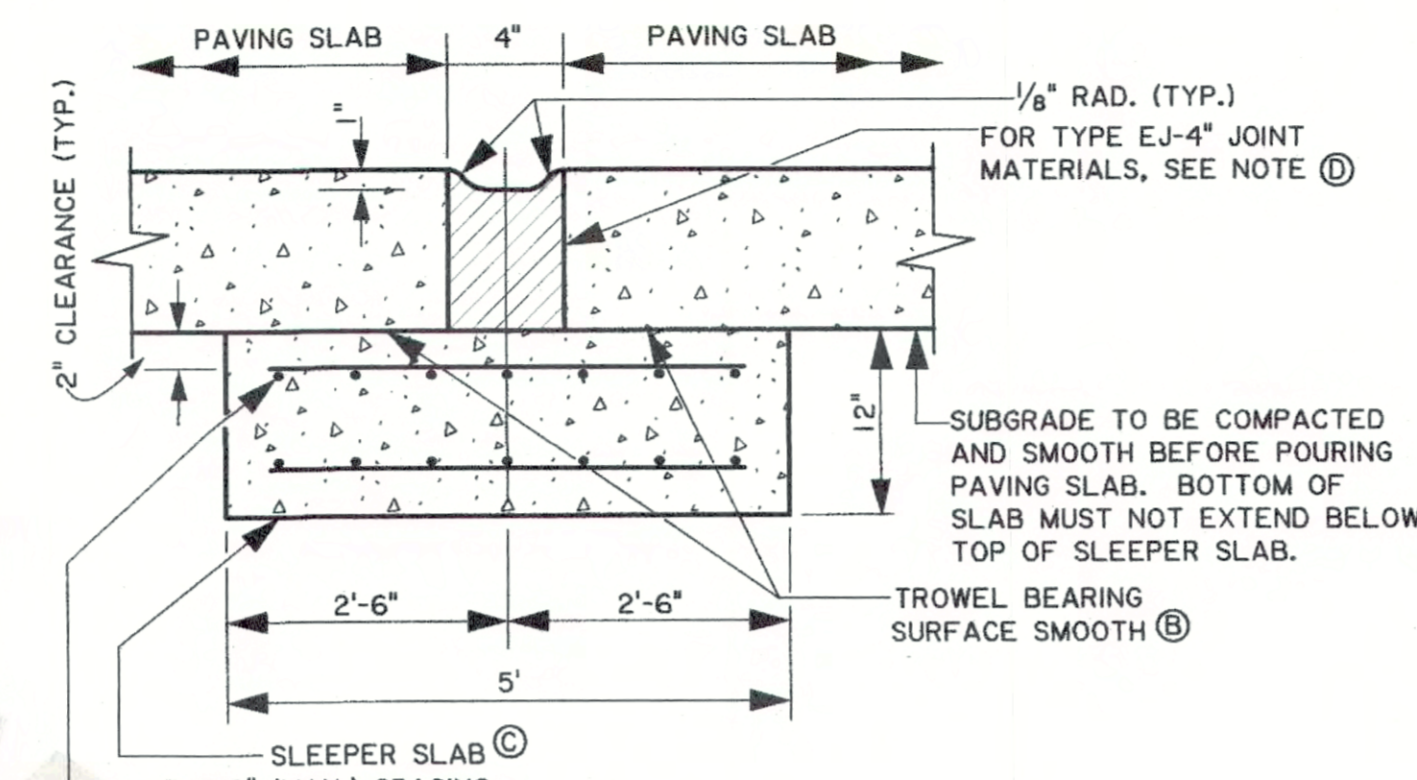


**NOTES:**

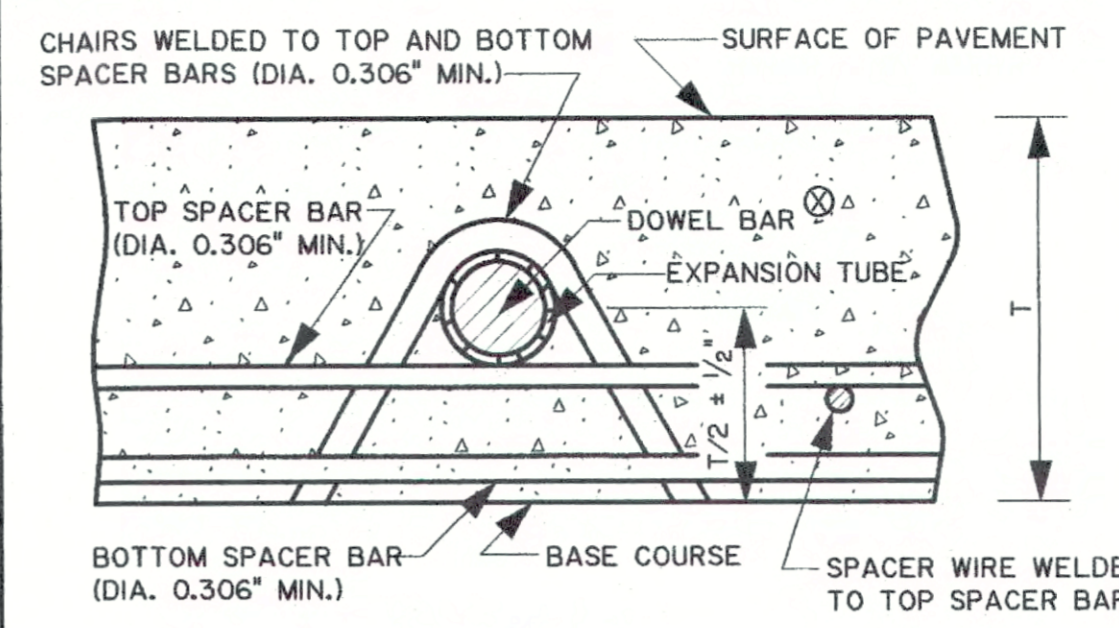
- (A) ONE OR TWO COMPONENT SILICONE CONFORMING TO SECTION 1005.
- (B) TAR PAPER EQUIVALENT TO 30 lbs./100 ft<sup>2</sup> SHALL BE PLACED BETWEEN THE SLEEPER SLAB AND THE PAVING SLAB.
- (C) SLEEPER SLAB SHALL BE CONSTRUCTED OF CLASS "A1" OR PAVEMENT TYPE CONCRETE AND INCLUDED IN THE COST OF THE PAVEMENT. PROVIDE DEFORMED GRADE 60 REINFORCING STEEL.
- (D) JOINT SHALL BE FILLED WITH A PREFORMED POLYURETHANE FOAM TYPE FILLER CONFORMING TO SECTION 1005.
- (E) SEE DETAIL "G" - EJ-4" BASE DRAIN OUTLET FOR UNDERDRAIN DETAILS (SHEET 3 OF 3)



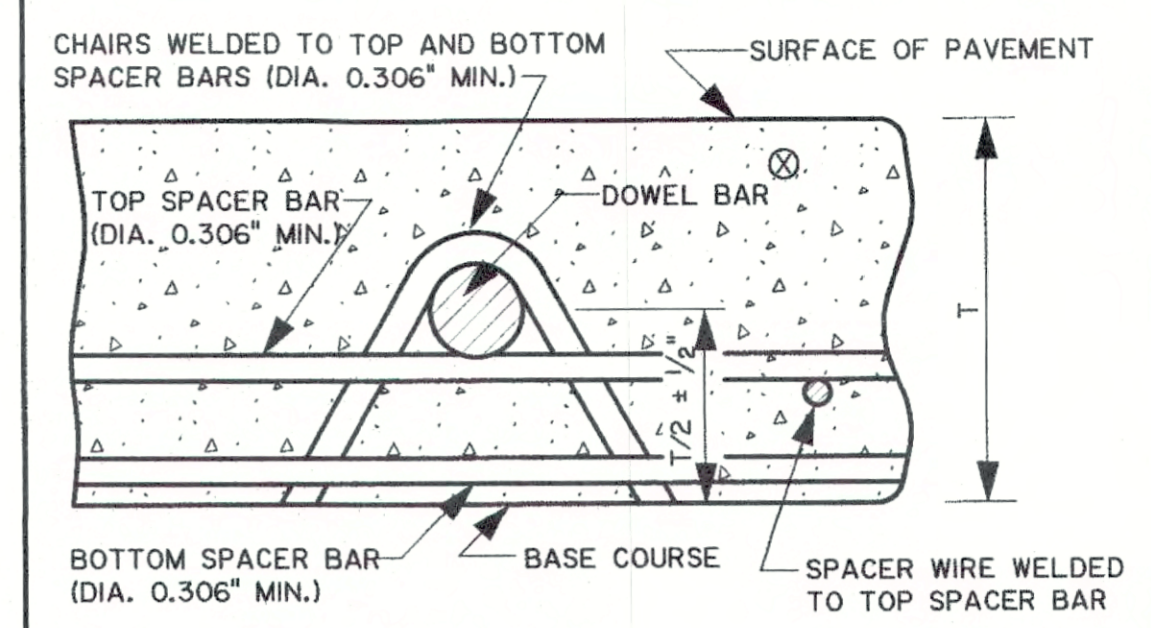
**SECTION A-A  
TYPE EJ-1 1/2"**



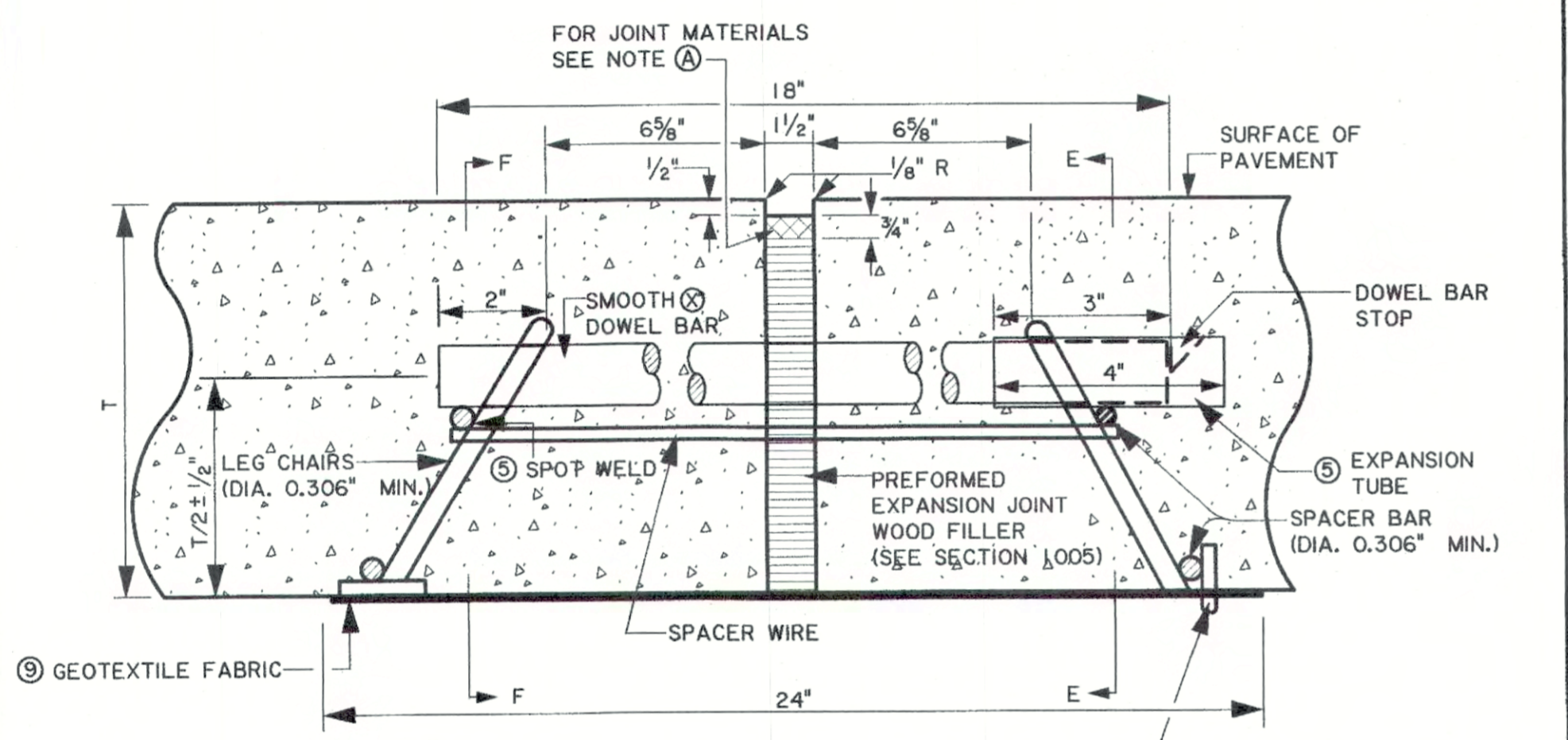
**SECTION C-C  
TYPE EJ-4" JOINT  
AND SLEEPER SLAB**



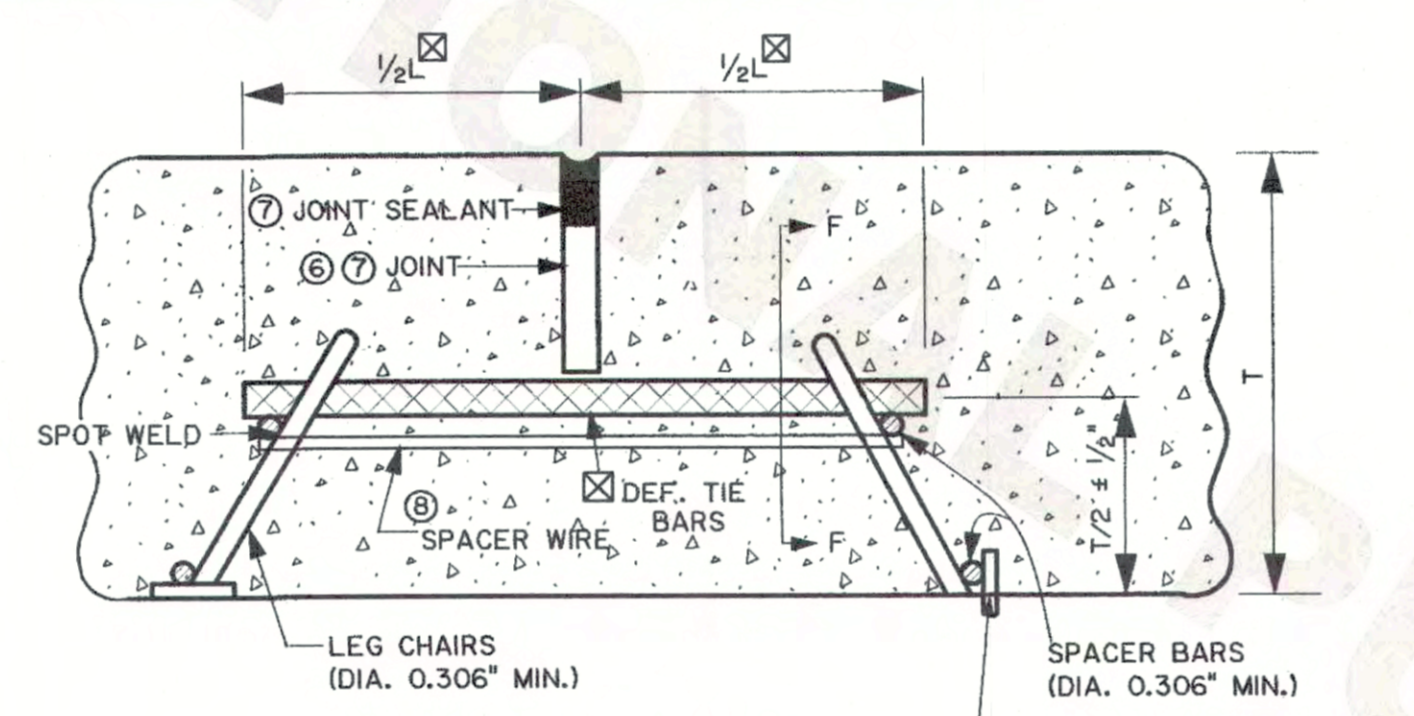
**SECTION E-E**  
SEE TABLE I (SHEET 1 OF 3)



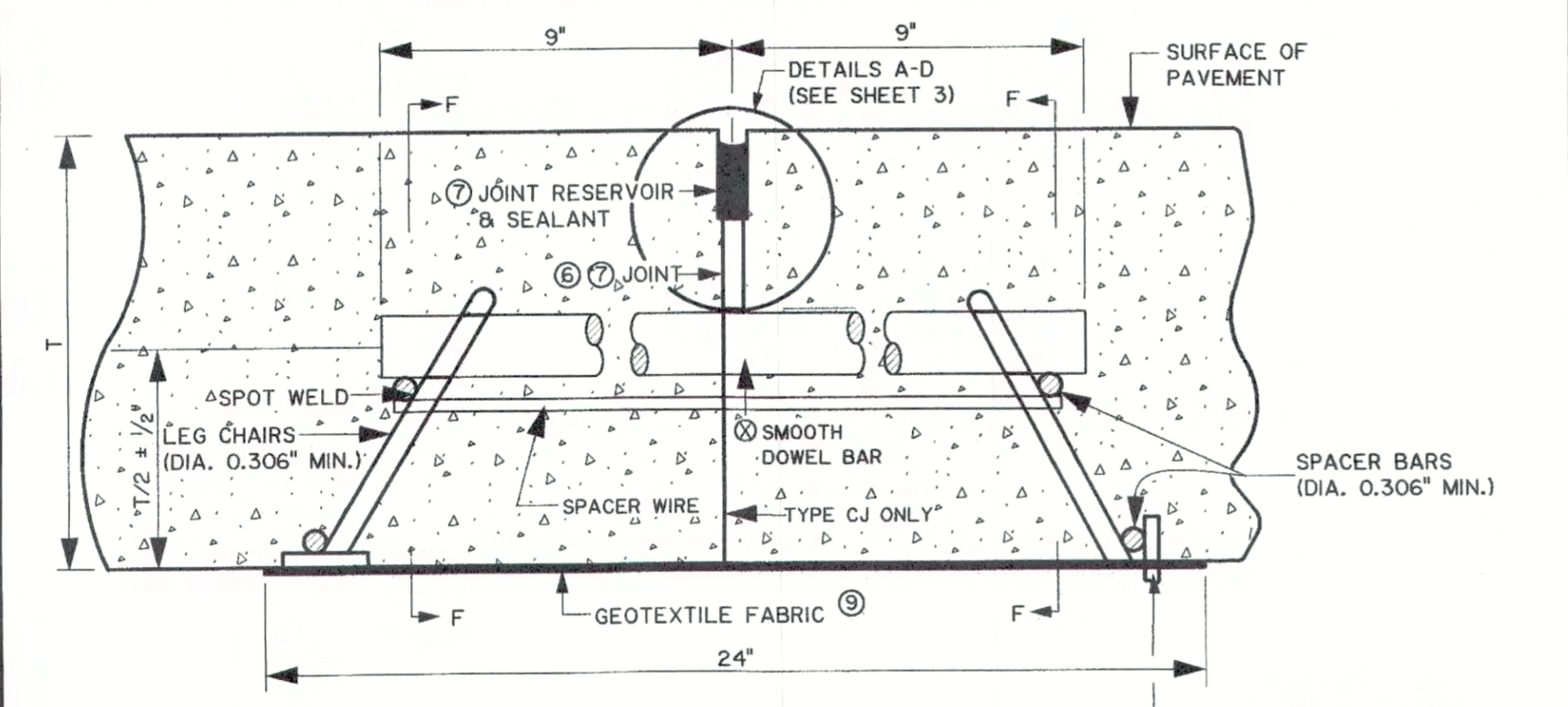
**SECTION F-F**  
SEE TABLE I (SHEET 1 OF 3)



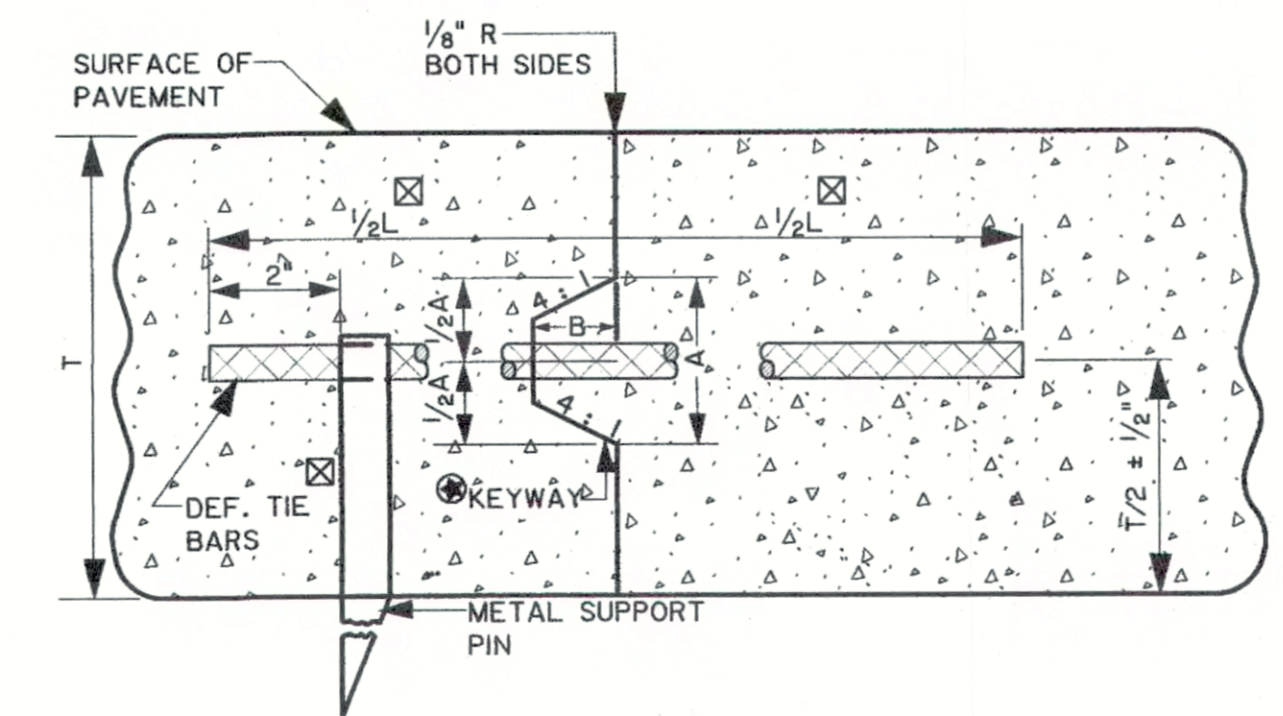
**TYPE EJ ALTERNATE (TRANSVERSE EXPANSION JOINT)**  
(NOT ALLOWED FOR DESIGN SPEED > 45 MPH)  
SEE TABLE I (SHEET 1 OF 3)



**SECTION D-D  
TYPE LJ (WITHOUT KEYWAY)  
(LONGITUDINAL JOINT)**  
(REQUIRED WHEN PAVEMENT WIDTH EXCEEDS 15') (SEE NOTE C)  
SEE TABLE I (SHEET 1 OF 3)

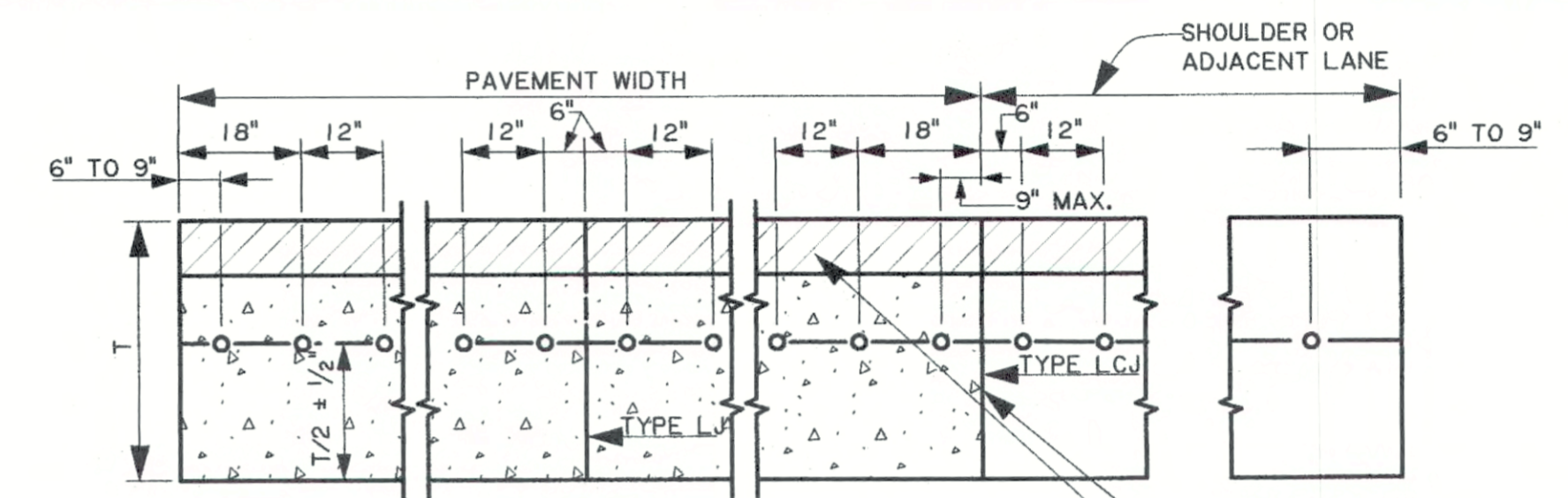


**SECTION B-B  
TYPE TCJ OR CJ (TRANSVERSE CONTRACTION JOINT OR CONSTRUCTION JOINT)**  
SEE TABLE I (SHEET 1 OF 3)

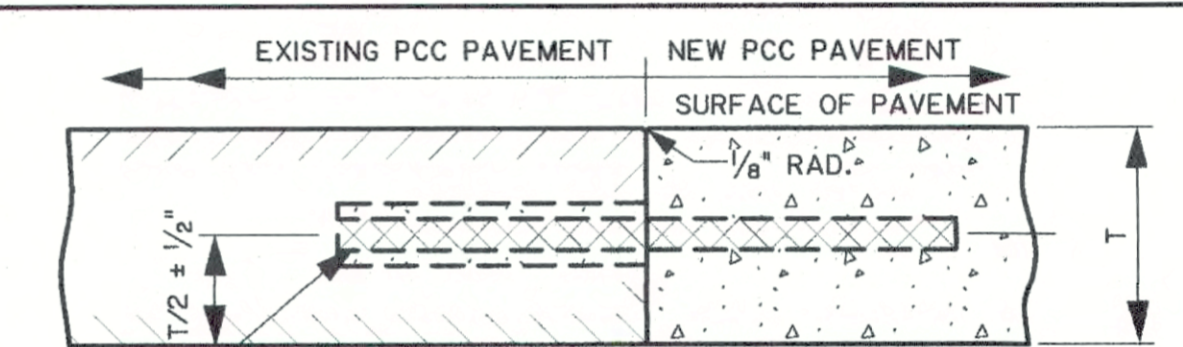


**SECTION D-D  
TYPE LCJ (WITH KEYWAY)  
(LONGITUDINAL CONSTRUCTION JOINT)**

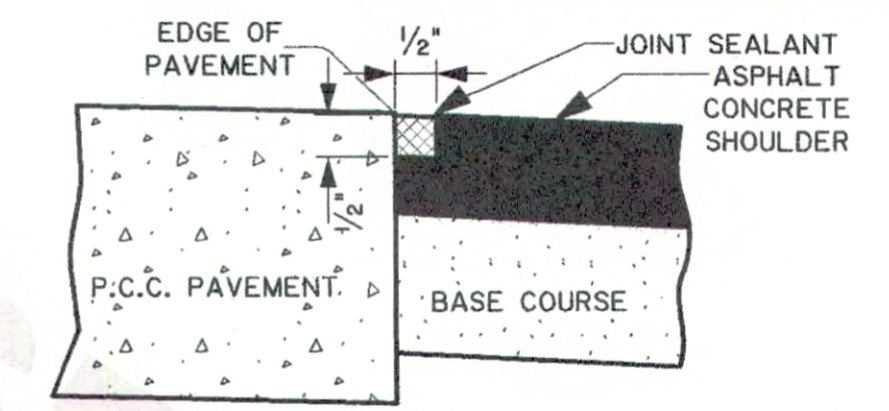
FOR KEYWAY DIMENSIONS A & B SEE TABLE I. IN LIEU OF THE KEYWAY, ONE OF THE FOLLOWING OPTIONS WILL BE ALLOWED:  
A. INSTALL TIE BARS OF THE SIZE SHOWN IN TABLE I, AT 1/2 THE SPACING.  
B. INSTALL TIE BARS 1/4" LARGER THAN THE TIE BAR DIAMETER SHOWN IN TABLE I, AT THE SAME SPACING.  
SEE TABLE I (SHEET 1 OF 3)



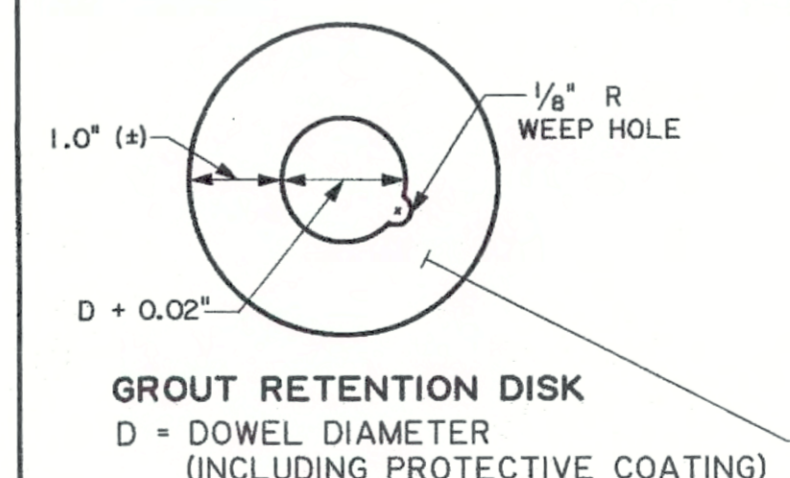
**SECTION G-G  
DOWEL BAR SPACING FOR TYPE TCJ, CJ, AND EJ JOINTS**



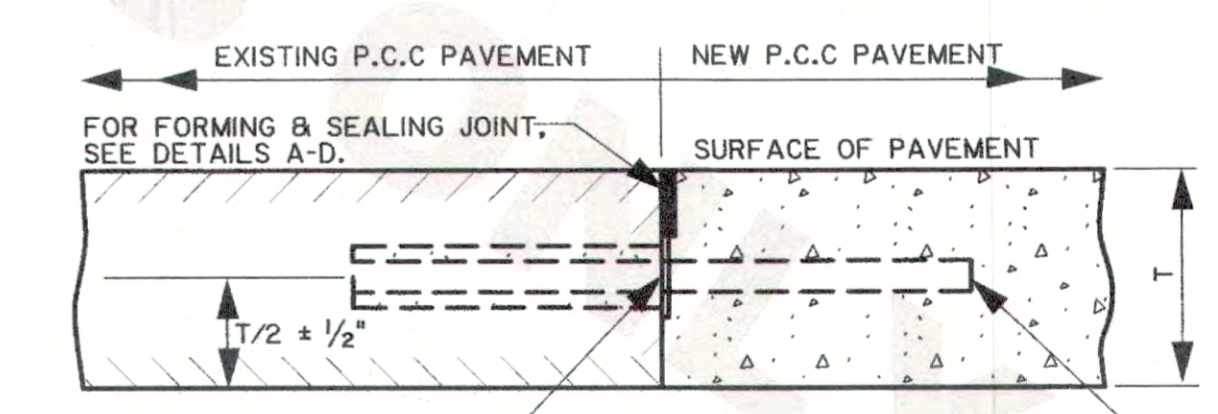
**SECTION H-H  
TYPE LBJ (LONGITUDINAL BUTT JOINT)**  
DEFORMED TIE BARS OF THE SIZE, LENGTH AND ONE HALF THE SPACING SPECIFIED IN TABLE I SHALL BE USED. THE BARS SHALL BE INSTALLED IN EXISTING PAVEMENT BY DRILLING HOLES 1/8" LARGER THAN THE BAR DIAMETER TO A REQUIRED DEPTH OF 1/2 THE BAR LENGTH. THE HOLES SHALL BE DRILLED AND FILLED IN ACCORDANCE WITH SECTION 601 BEFORE INSERTION OF THE TIE BARS.



**SECTION I-I  
TYPE PJ (HOT POURED SEALANT SECTION 1005)**



**GROUT RETENTION DISK (INCLUDING PROTECTIVE COATING)**  
D = DOWEL DIAMETER



**SECTION J-J  
TYPE BJ (TRANSVERSE BUTT JOINT)**

SMOOTH DOWEL BARS OF THE SIZE, LENGTH AND SPACING SPECIFIED IN TABLE I SHALL BE USED. THE BARS SHALL BE INSTALLED IN EXISTING PAVEMENT BY DRILLING HOLES 1/8" LARGER THAN THE BAR DIAMETER TO A REQUIRED DEPTH OF 1/2 THE BAR LENGTH. THE HOLES SHALL BE DRILLED AND FILLED IN ACCORDANCE WITH SECTION 601 BEFORE INSERTION OF THE DOWEL BARS.



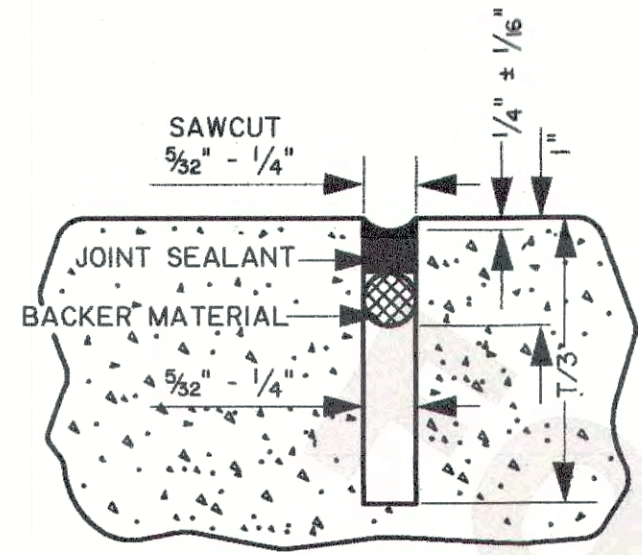
Hoan D. Dang  
5/19/17

NOT TO SCALE

SHEET NUMBER	PARISH	CONTROL SECTION	STATE PROJECT
DESIGNED BY: H. DANG	CHECKED BY: S. ARDOIN	DETAILED BY: H. DANG	CHECKED BY: S. ARDOIN
NO.	DATE	REVISION OR CHANGE ORDER DESCRIPTION	BY
	5-11-2017		Janece P. Williams
PORTLAND CEMENT CONCRETE PAVEMENT DETAILS			CP-01 - STANDARD PLAN

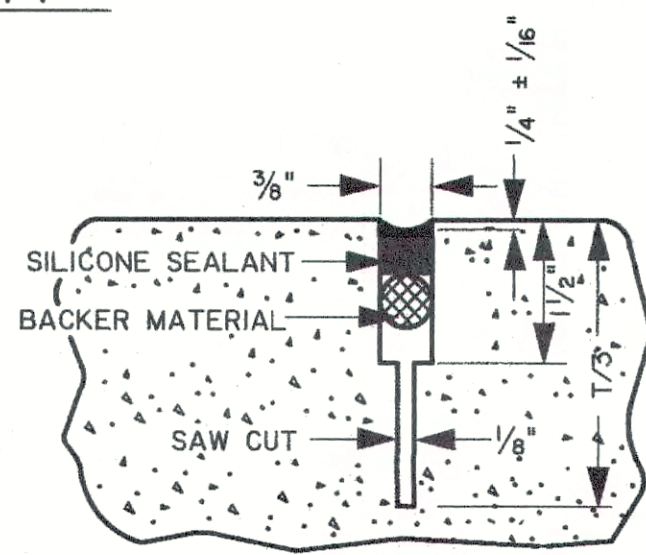


**DETAILS "A-F"**



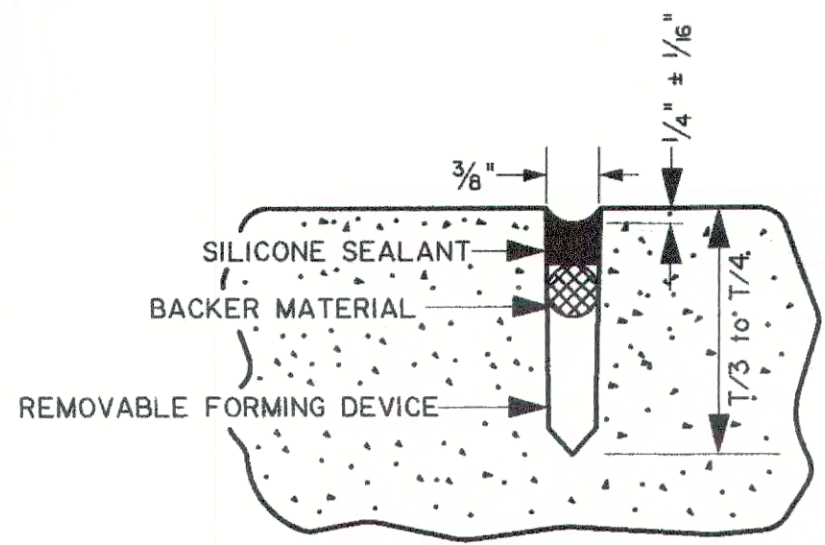
**DETAIL "A"**

USE THIS DETAIL IN CONJUNCTION WITH TYPE TCJ (SECTION B-B) AND TYPE LJ JOINT (SECTION D-D) AND NOTES (6) & (7) ON SHEET #1.



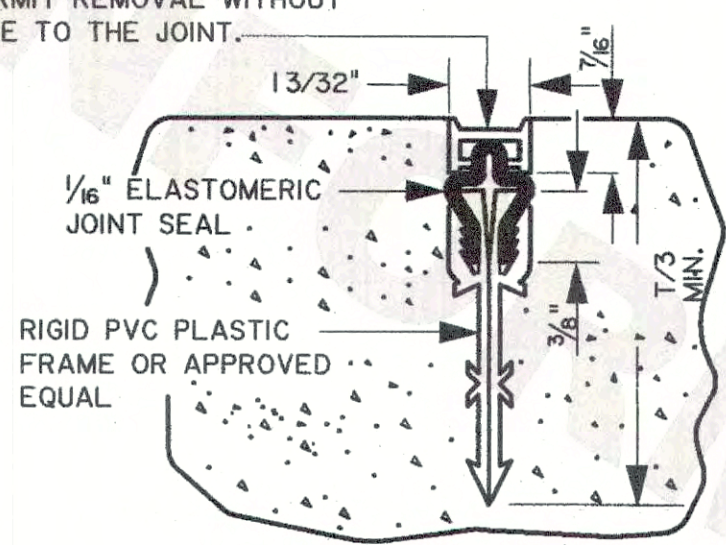
**DETAIL "B"**

REMOVE CAP AFTER CONCRETE HAS HARDENED SUFFICIENTLY TO PERMIT REMOVAL WITHOUT DAMAGE TO THE JOINT.



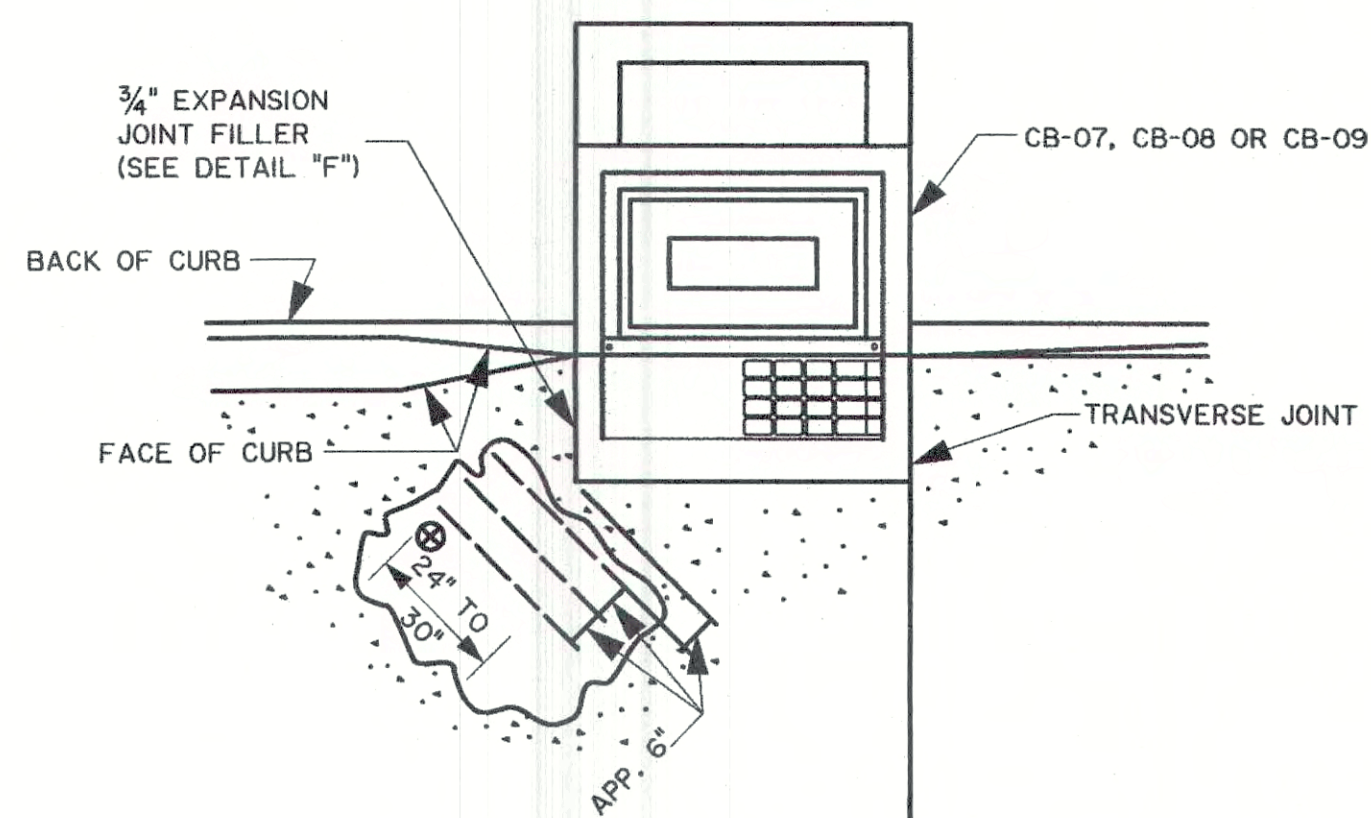
**DETAIL "C"**

NOT ALLOWED FOR DESIGN SPEEDS GREATER THAN 45 MPH.



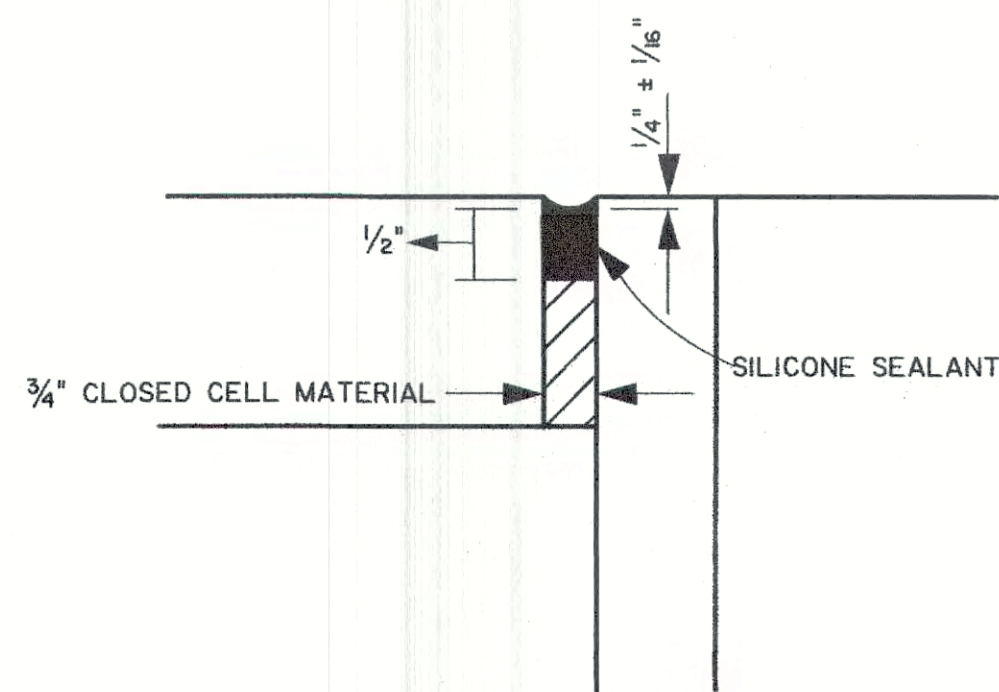
**DETAIL "D"**

NOT ALLOWED WHEN THE PAVEMENT IS PLACED ON PERMEABLE BASES  
NOT ALLOWED FOR DESIGN SPEEDS GREATER THAN 45 MPH.



**DETAIL "E"**

TRANSVERSE JOINT AT CATCH BASIN



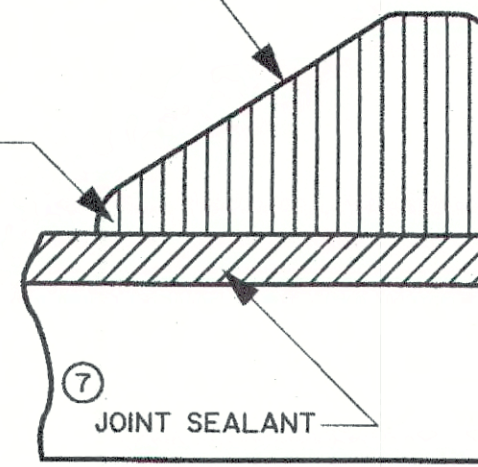
**DETAIL "F"**

AFTER CATCH BASIN TOP IS POURED, THE TOP OF THE 3/4" JOINT FILLER IS TO BE REMOVED TO THE DEPTH SHOWN PRIOR TO SEALING. THE CURB FACES ADJACENT TO THE BASIN SHALL ALSO BE SEALED. JOINT FACES SHALL BE CLEANED IN ACCORDANCE WITH SECTION 601.

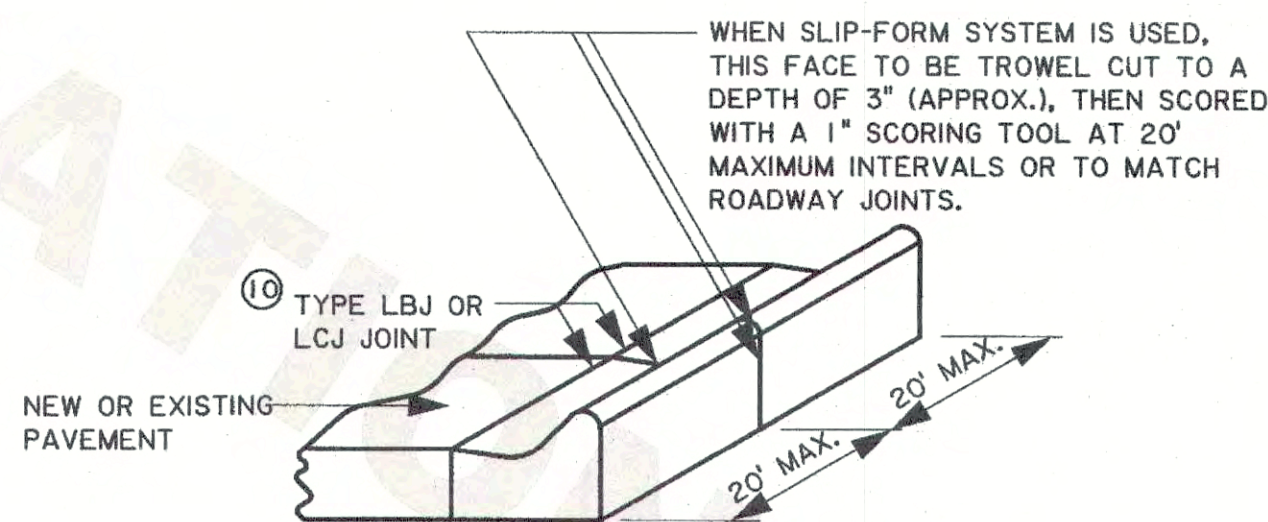
**NOTE:**

WHEN CURB IS POURED MONOLITHICALLY WITH PAVEMENT, THE BITUMINOUS PREFORMED EXPANSION JOINT FILLER SHALL EXTEND TO THE TOP OF JOINT INSERT. WHEN TRANSVERSE JOINTS ARE CONSTRUCTED BY SAWING, THE INITIAL SAW CUT SHALL EXTEND THRU THE CURBED SECTION (CURB AND UNDERLYING PAVEMENT). THE SUBSEQUENT WIDENING CUT FOR THE JOINT SEALANT RESERVOIR SHALL EXTEND INTO THE CURB FOR A DISTANCE NECESSARY TO ENSURE THE SPECIFIED RESERVOIR DEPTH IS BEING MAINTAINED AT THE GUTTER LINE. ALL CURB FACES REGARDLESS OF CURB TYPE SHALL BE SEALED WHEN TRANSVERSE JOINT IS SAWED THROUGH CURB.

3/8" BITUMINOUS PREFORMED EXPANSION JOINT FILLER

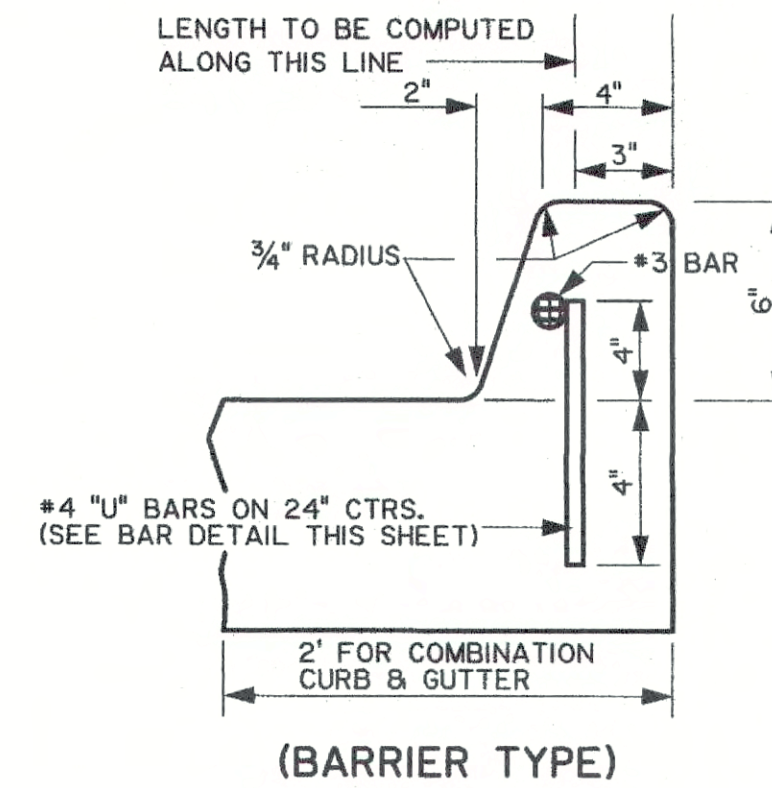


**JOINT FILLER DETAIL FOR INTEGRAL CONCRETE CURB (MOUNTABLE OR BARRIER TYPE)**

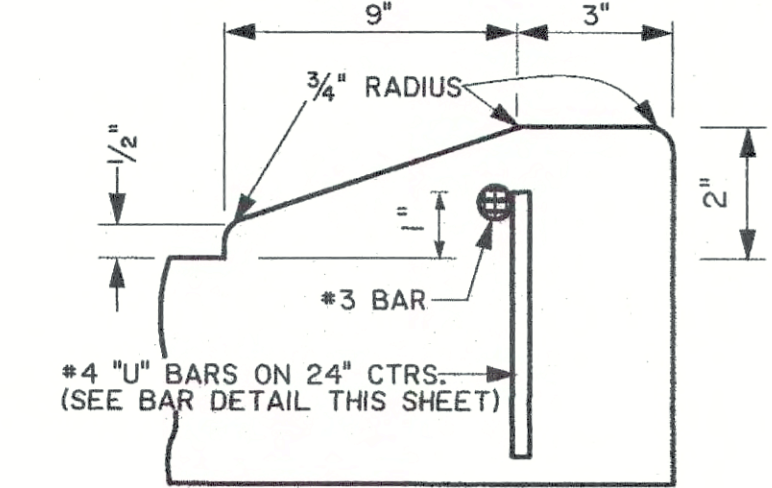


**DETAIL SHOWING JOINTS IN CONCRETE CURB AND GUTTER (EXTEND ALL TCJ THROUGH CURB & GUTTER)**

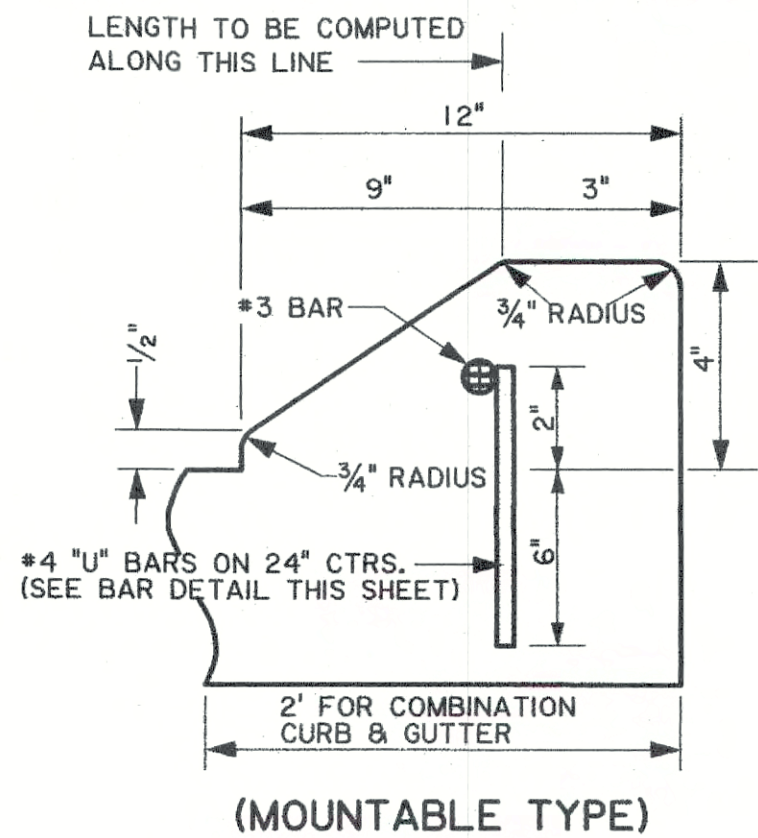
**NOTE: SEE STANDARD PLAN DW-01 AND PLANS FOR CURB PLACEMENT DETAILS.**



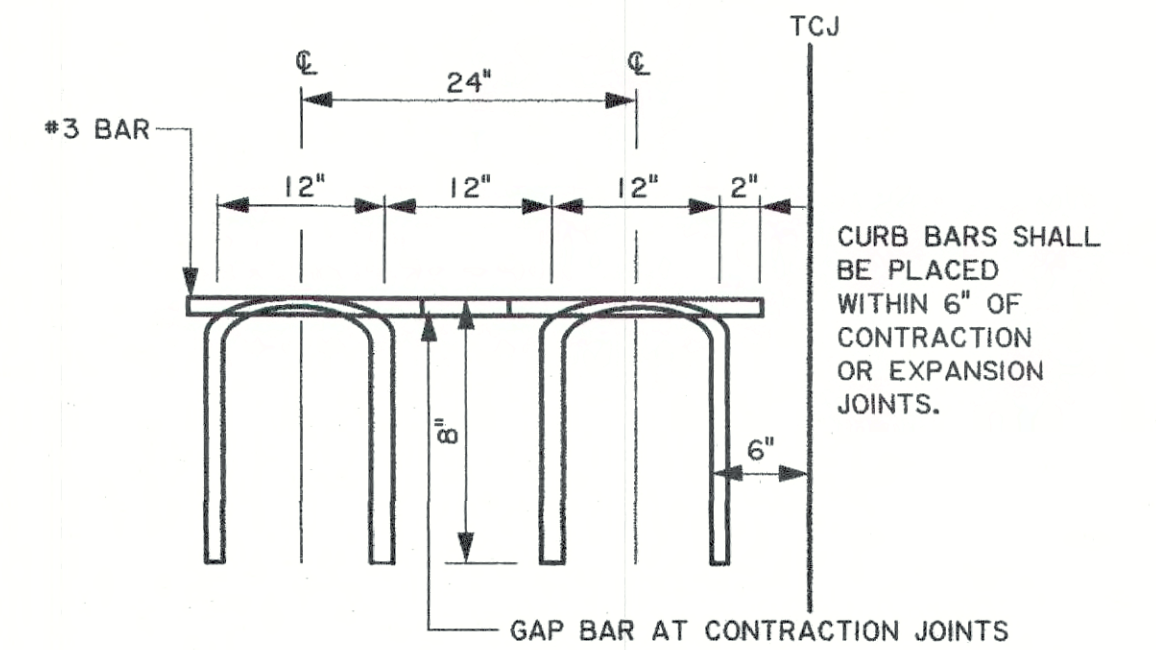
**(BARRIER TYPE)**



**MODIFIED BARRIER OR MOUNTABLE CURB THRU DRIVEWAY**



**(MOUNTABLE TYPE)**



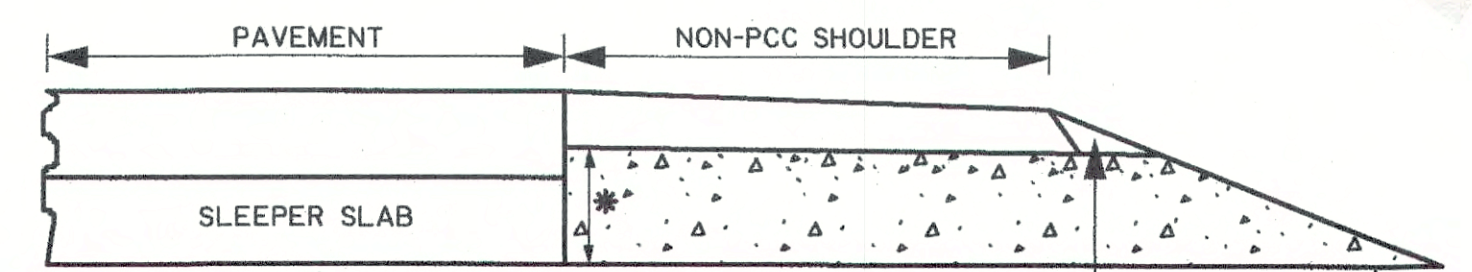
**BAR DETAIL**

SHOWING DIMENSIONS AND SPACING OF #4 BARS AND LONGITUDINAL BARS FOR CONC. CURB

**CURB DETAILS**

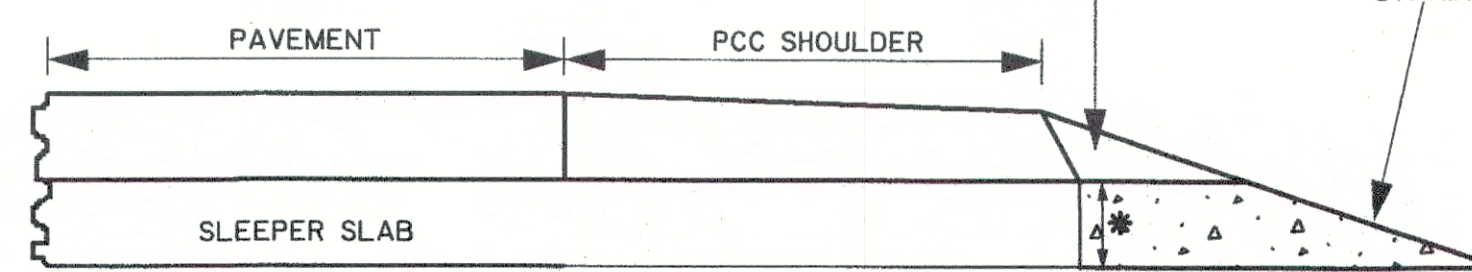
**NOTES:**

- POUR CURB INTEGRAL WITH PCC PAVEMENT OR GUTTER TO INSURE MONOLITHIC CONSTRUCTION UNLESS OTHERWISE APPROVED BY THE ENGINEER. CURB BARS ARE NOT REQUIRED WHERE CURB IS CONSTRUCTED MONOLITHIC WITH THE PAVEMENT.
- ALL BARS SHOWN SHALL BE DEFORMED REINFORCING STEEL.
- WHEN REPLACING OR ADDING CONCRETE CURB TO EXISTING PAVEMENT, CONNECT THE NEW CONCRETE CURB TO THE PAVEMENT WITH THE DEFORMED REINFORCING STEEL SHOWN BY DRILLING HOLES INTO THE EXISTING PAVEMENT 1/8" LARGER THAN THE BAR DIAMETER. ANCHOR THE BARS WITH AN APPROVED EPOXY RESIN SYSTEM FROM THE DOTD AML. APPLY EPOXY ADHESIVE, COMPLYING WITH AASHTO M235, TYPE V, TO THE SURFACE AREA WHERE THE CONCRETE CURB WILL BE PLACED. INCLUDE ALL COST RELATED TO THE CONSTRUCTION OF THE CURB, INCLUDING THE DRILLED HOLES, DEFORMED REINFORCING BARS, AND EPOXY, IN THE UNIT PRICE FOR THE CURB ITEM.

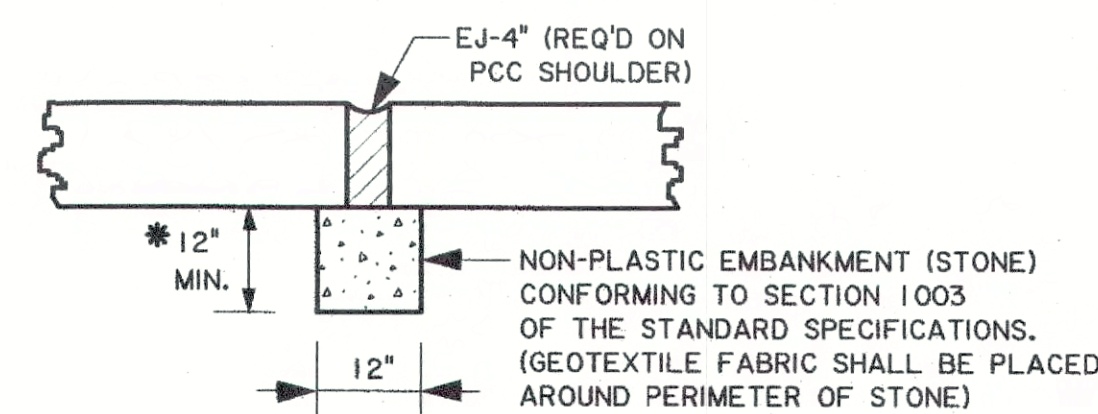


**SECTION K-K**

\* SEE TYPICAL SECTION FOR DEPTH (12" MIN.)

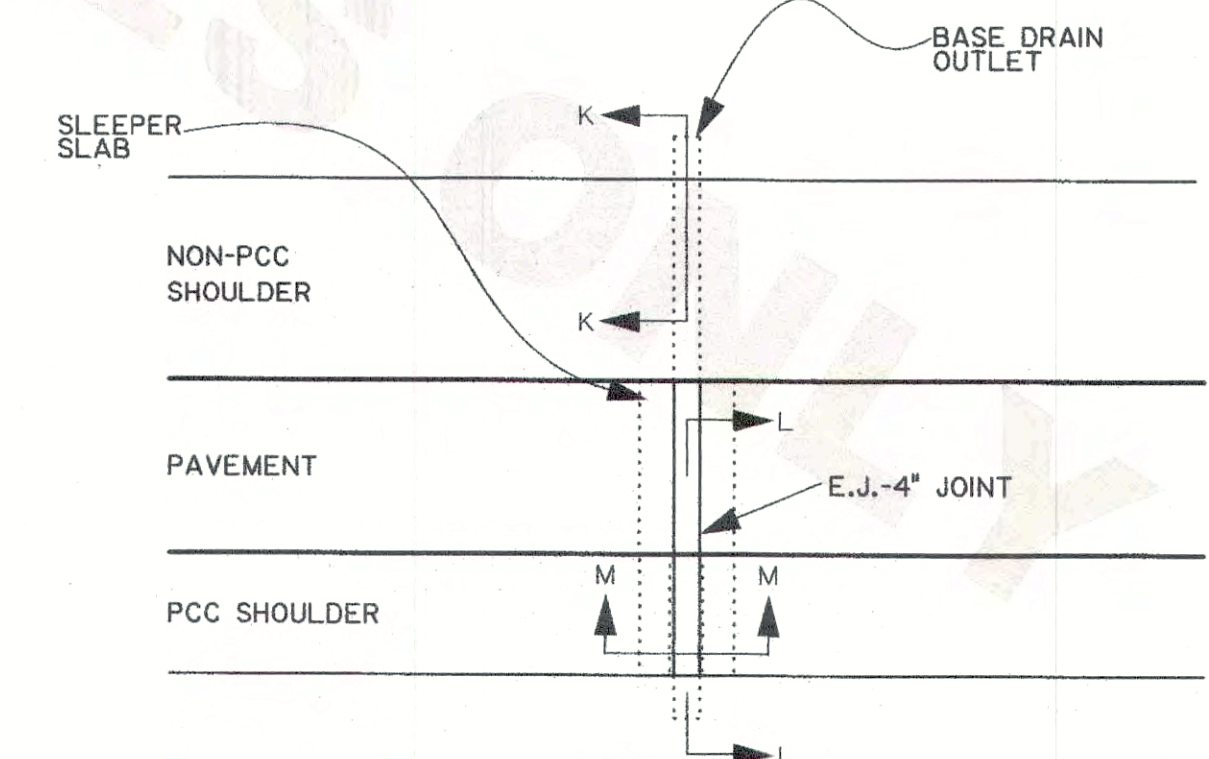


**SECTION L-L (WITH CONCRETE SHOULDER)**



**SECTION M-M (SLEEPER SLAB NOT SHOWN)**

A BASE DRAIN OUTLET WILL BE REQUIRED AT E.J.-4 JOINTS UNLESS A SHOULDER UNDER DRAIN SYSTEM IS SPECIFIED ON THE PLANS, IN WHICH CASE, THE SHOULDER UNDER DRAIN FOR THE E.J. JOINT SHALL BE CONNECTED TO THE NEAREST STORM SEWER OR DISCHARGED THROUGH A HEADWALL. THE COST FOR THE BASE DRAIN OUTLET FOR THE E.J. JOINT IS TO BE INCLUDED IN THE COST OF THE PAVEMENT.

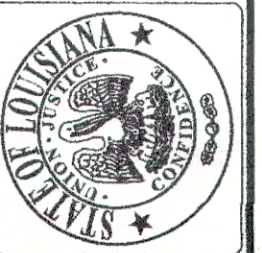


**PLAN - BASE DRAIN OUTLET AT 4" E.J. EJ-4 JOINTS**

**DETAIL "G" - EJ-4" BASE DRAIN OUTLET**

NOT TO SCALE

SHEET NUMBER	PARISH	CONTROL SECTION	STATE PROJECT
DESIGNED BY: H. DANG	CHECKED BY: S. ARDOIN	DATE: 5-11-2017	3 OF 3
DATE: 5-11-2017	REVISION OR CHANGE ORDER DESCRIPTION	BY	NO.
APPROVED BY: <i>J. Williams</i>	CHIEF ENGINEER		

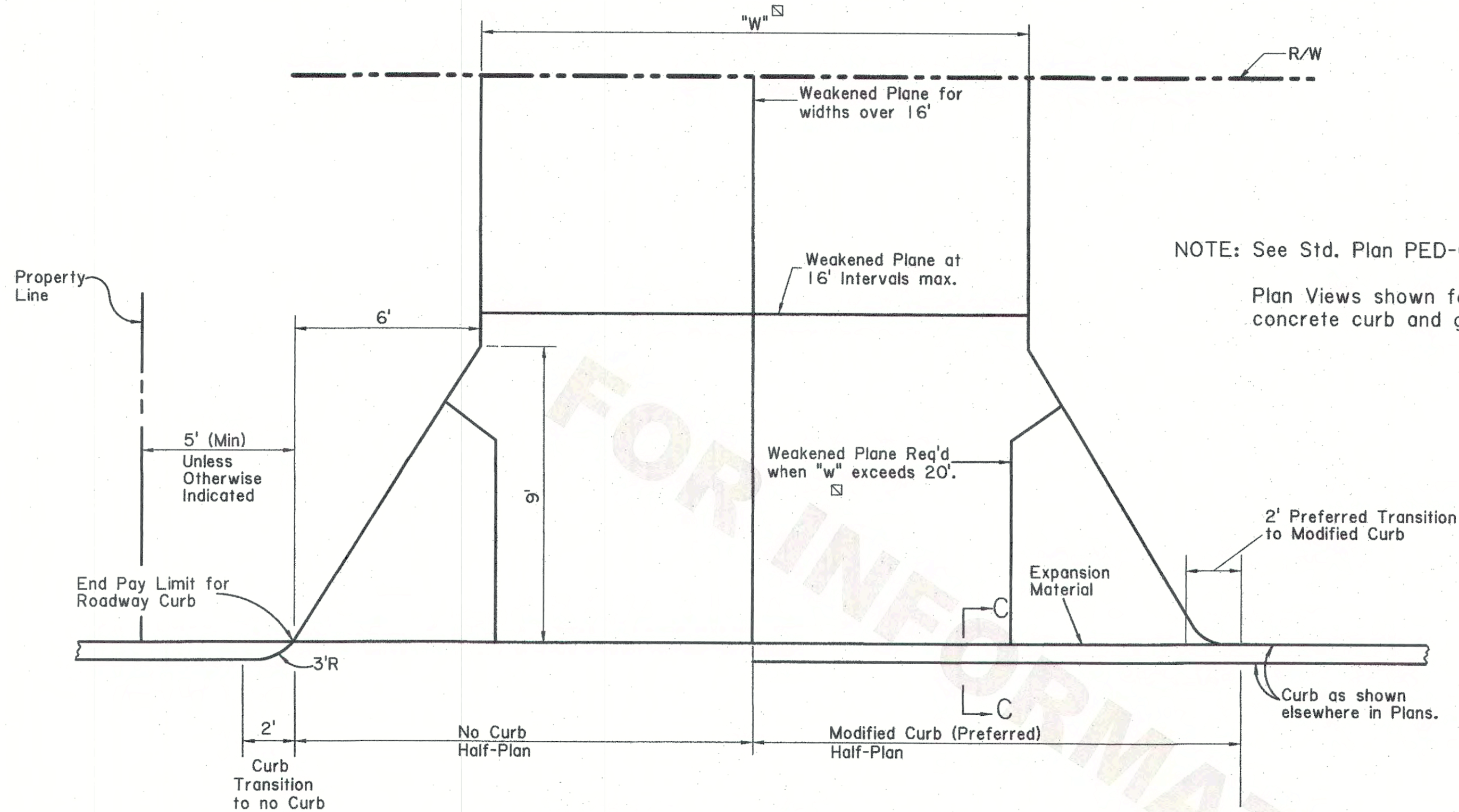


PORTLAND CEMENT CONCRETE PAVEMENT DETAILS  
CP-01 - STANDARD PLAN





11/7/2017 08:22

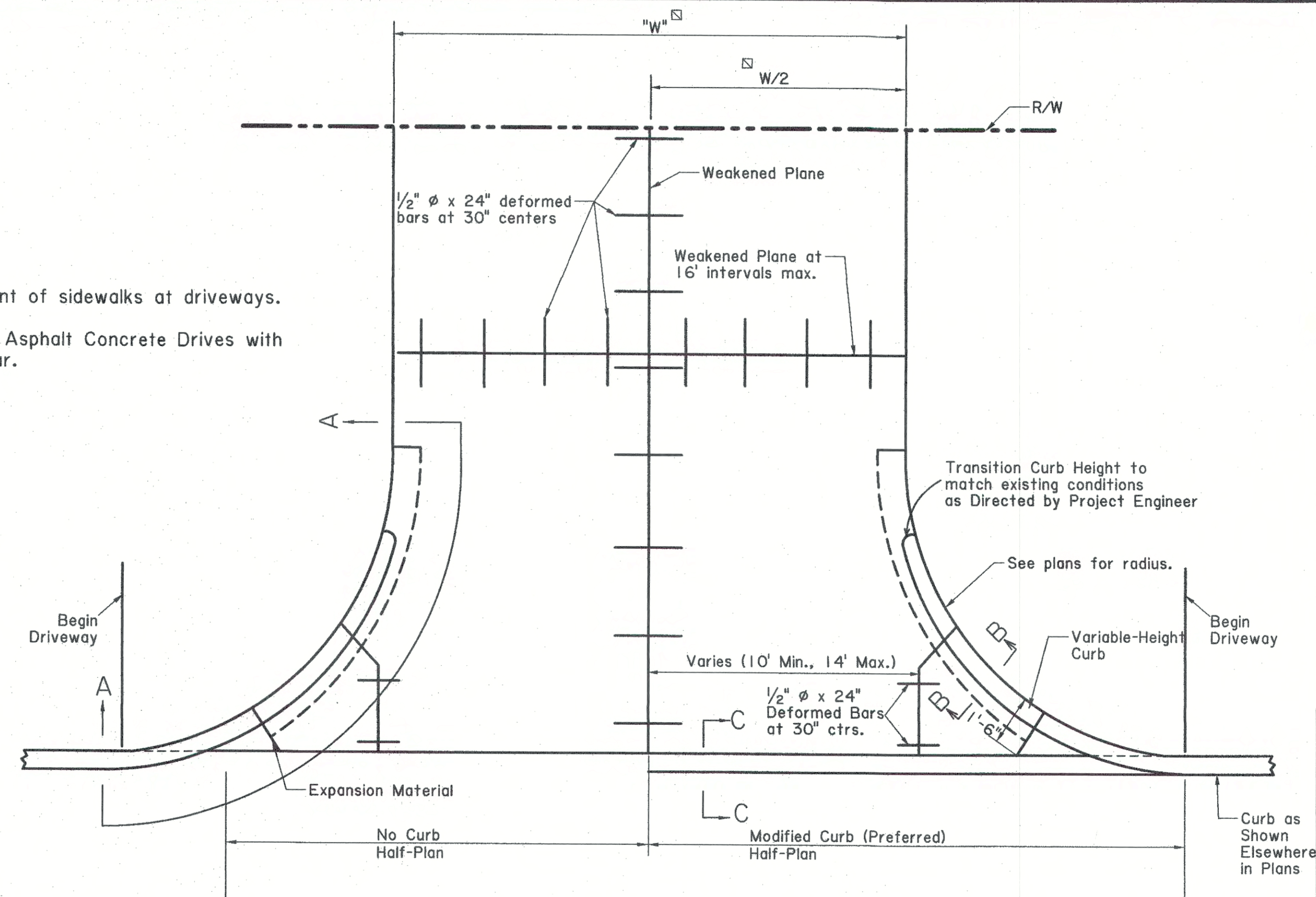


**PLAN OF RESIDENTIAL DRIVEWAY**

NOTE: Modified Curb to be Paid for as Normal Curb and will be used as shown in the plans or when directed by Project Engineer.  
Radii transition shape may be used in lieu of flare.

NOTE: See Std. Plan PED-01 for treatment of sidewalks at driveways.  
Plan Views shown for PCC Drives. Asphalt Concrete Drives with concrete curb and gutter are similar.

☐ "W" = Width as per plans

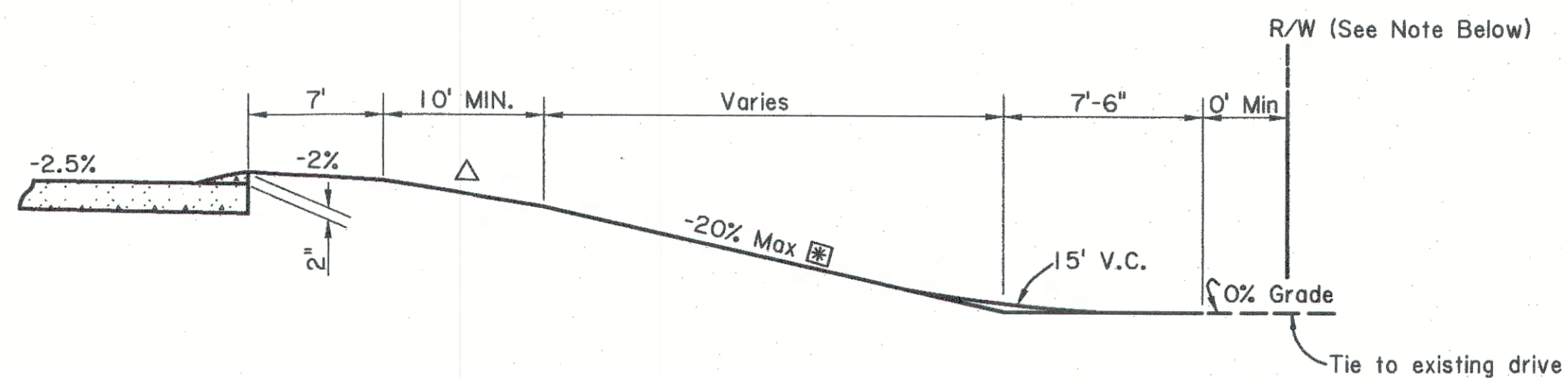


**PLAN OF COMMERCIAL DRIVEWAY**

NOTE: Modified Curb to be paid for as Normal Curb and will be used as shown in the plans or when directed by Project Engineer.

When Curb is Required along Radii of Driveway, Payment for Toe Wall and Curb will be included in the price for Driveway items.

When Curb is not Required along Radii, Transition Curb as shown on Residential Driveway.

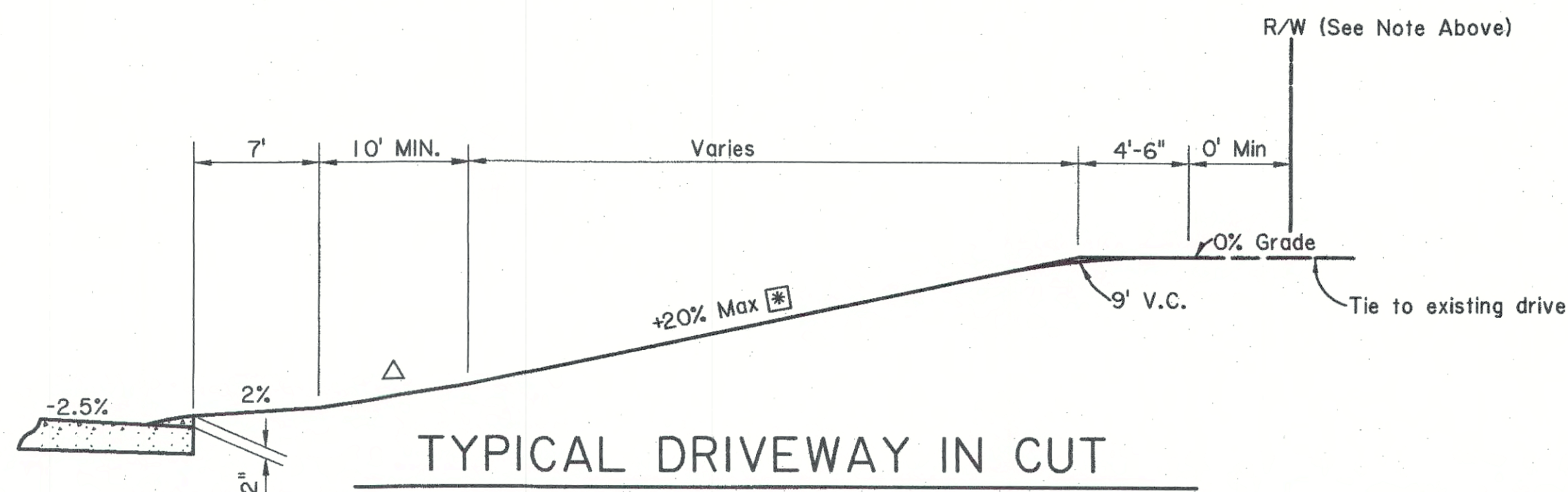


**TYPICAL DRIVEWAY IN FILL**

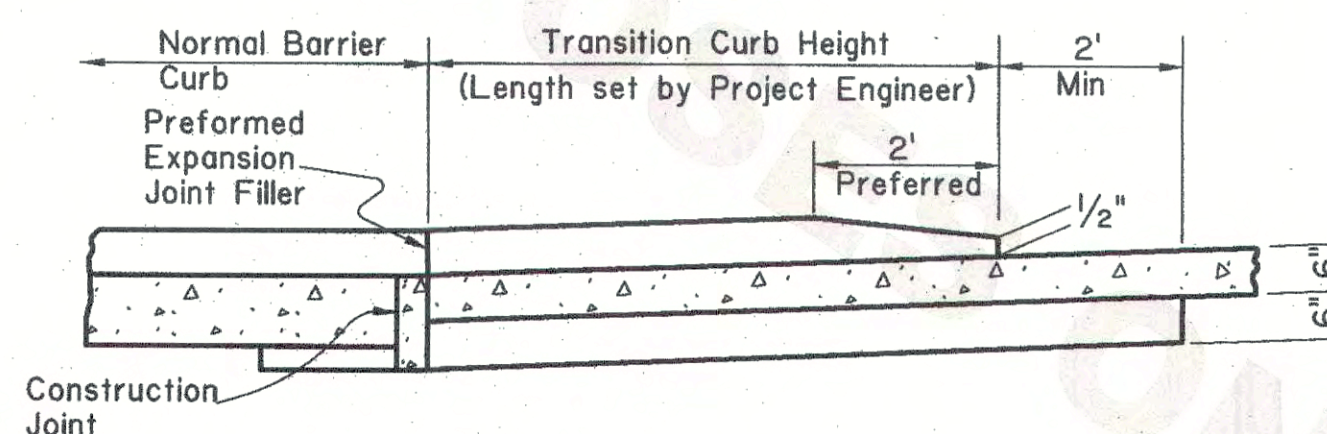
NOTE: Driveway Grades shown are Maximum. If R/W is not sufficient to construct Driveway, R/W Agreement or Construction Servitude should be secured to permit Construction of Driveway as shown.

☒ 25% Max Grade may be used in Special Cases, provided that Vertical Curve Lengths are increased accordingly.

△ Maximum change in grade shall be 10% for Crests and 9% for Sags for any combination of grades without Vertical Curves. These Maximum Grade changes should be at least 10' apart.

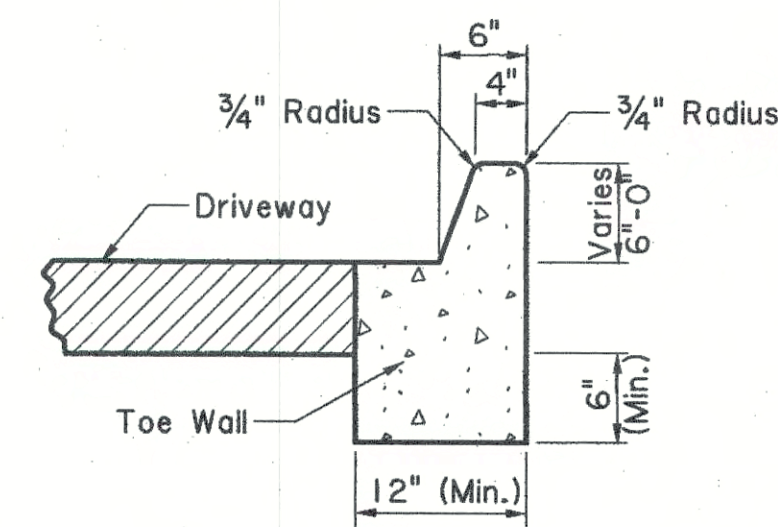


**TYPICAL DRIVEWAY IN CUT**



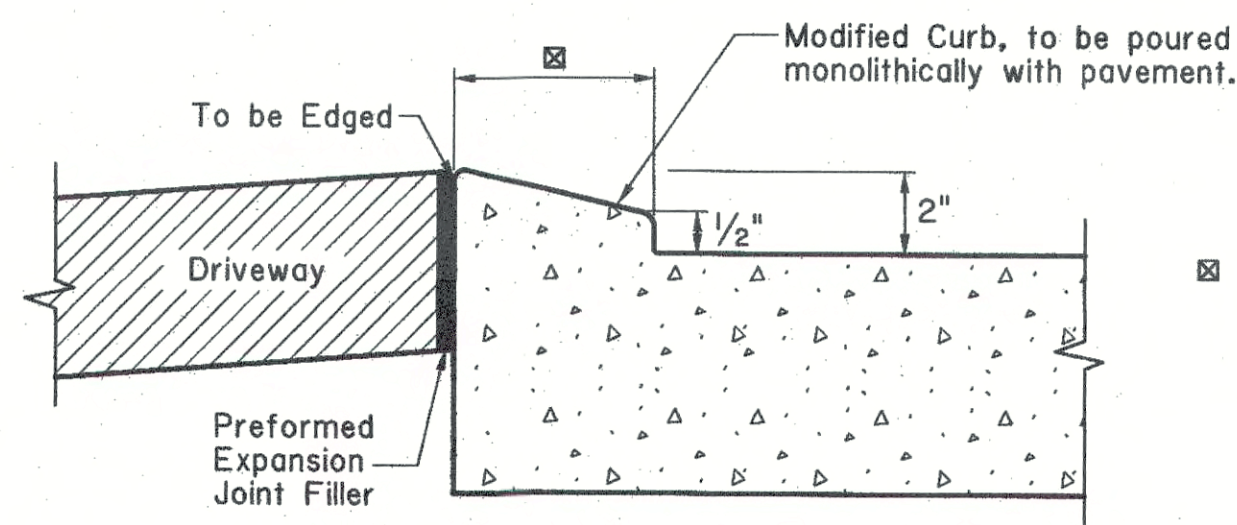
**SECTION A-A**

(Weakened Plane not shown.)



**SECTION B-B**

NOTE: For PCC Driveway, Curb, Toe Wall & Driveway to be poured monolithically.

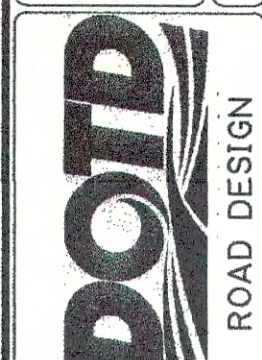


**SECTION C-C**

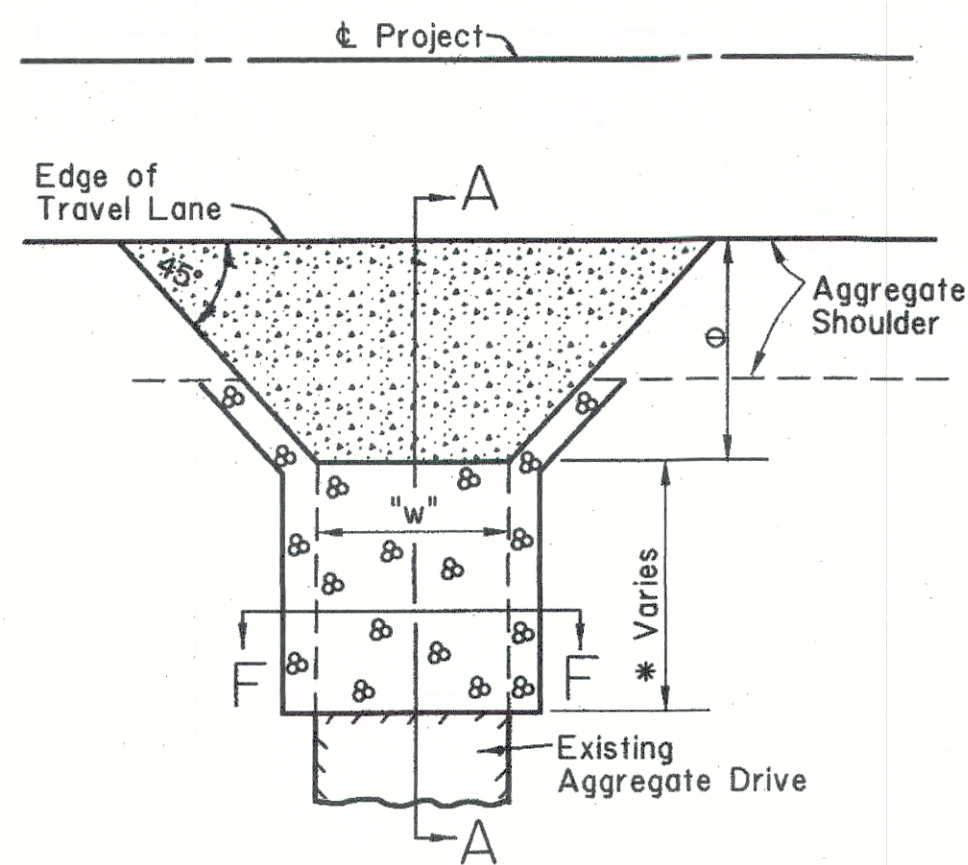
NOTE: See Std. Plan CP-01 for Curb construction

☒ 6" to match Barrier Curb  
12" to match Mountable Curb



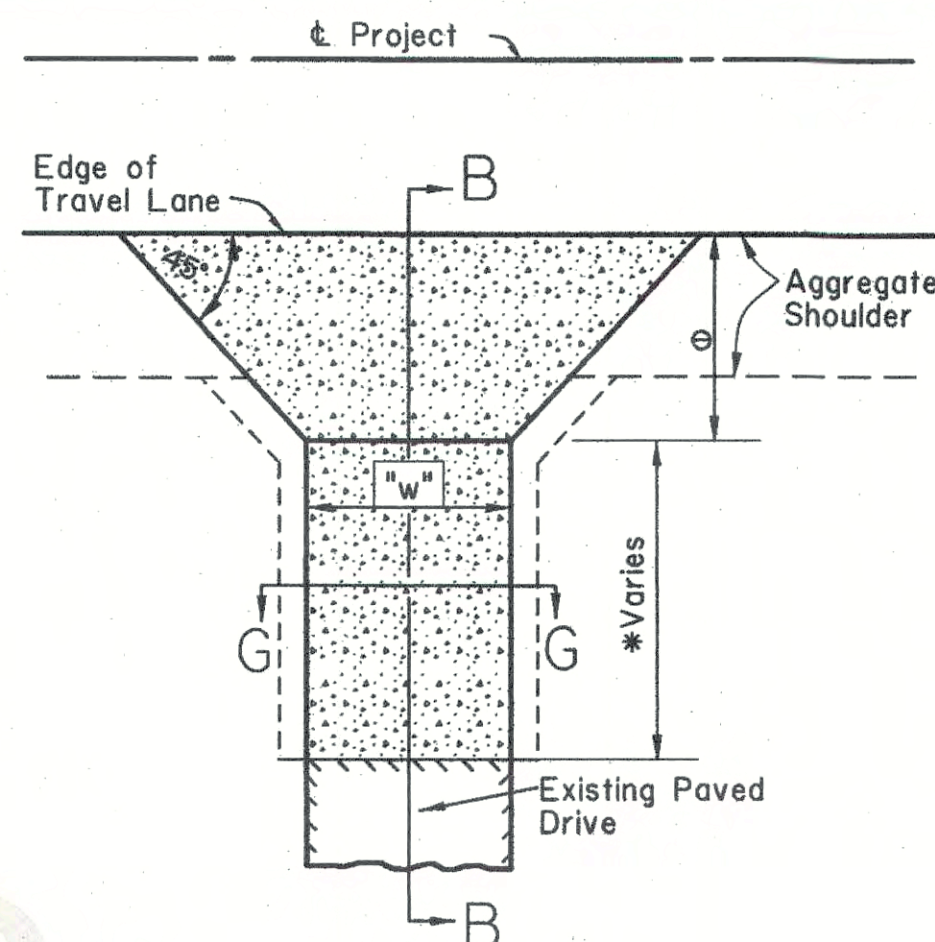
SHEET NUMBER	PARISH	CONTROL SECTION	STATE PROJECT
DESIGNED BY: P. TONEY	CHECKED BY: D. SMITH	DESIGNED BY: P. TONEY	CHECKED BY: D. SMITH
NO.	DATE	REVISION DESCRIPTION	BY
APPROVED BY: J. Williams	DATE: 11-7-17		
DRIVEWAYS ON CURBED ROADWAYS			
STANDARD PLAN DW-01			
			





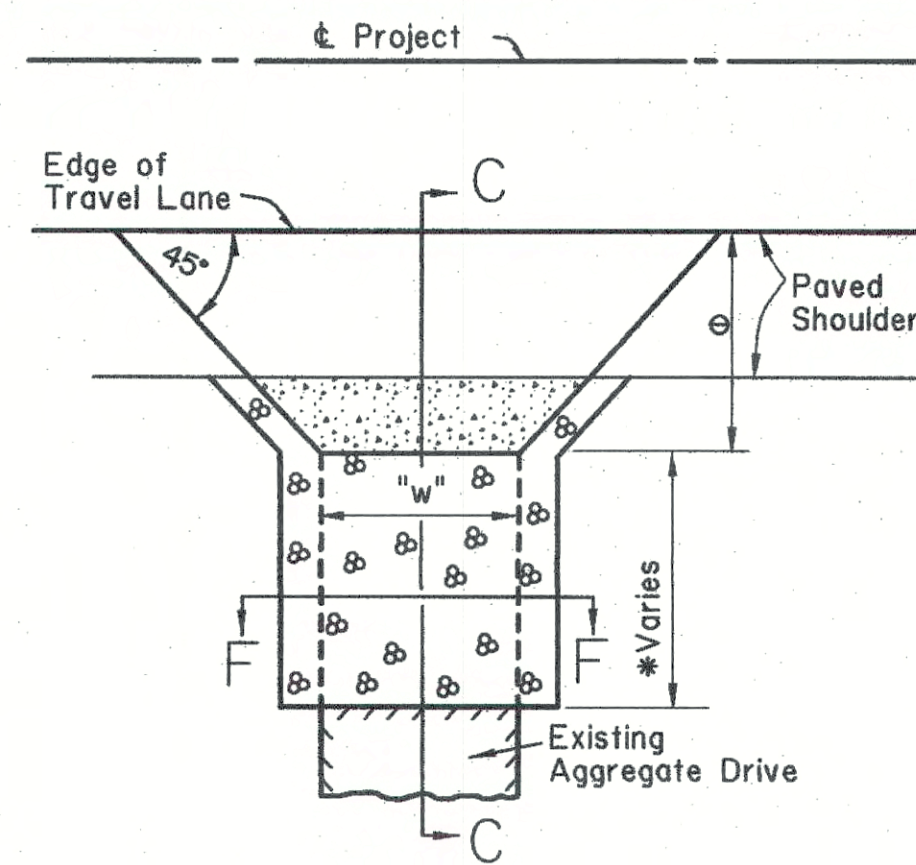
TYPE "A"

Paved Drive Along Aggregate Shoulder



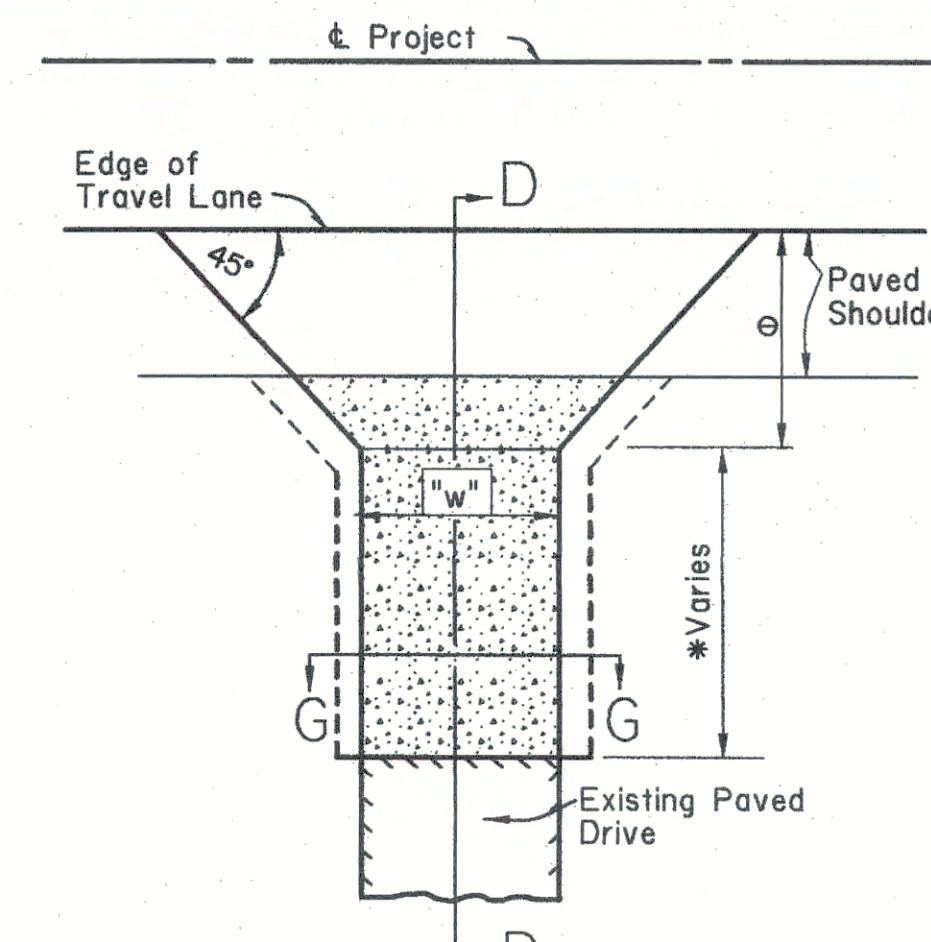
TYPE "B"

Paved Drive Along Aggregate Shoulder Connecting Existing Paved Drive



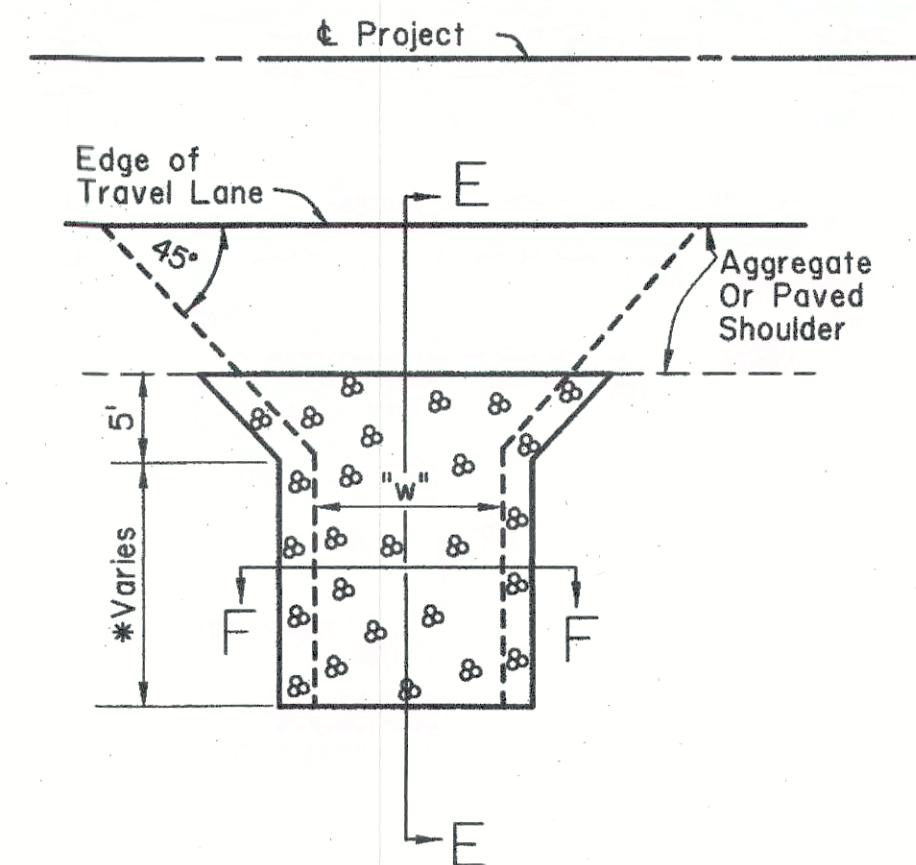
TYPE "C"

Paved Drive Along Paved Shoulder



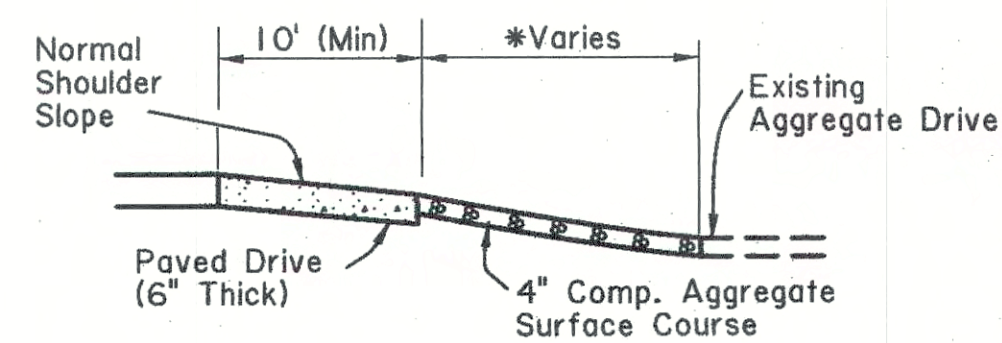
TYPE "D"

Paved Drive Along Paved Shoulder Connecting Existing Paved Drive

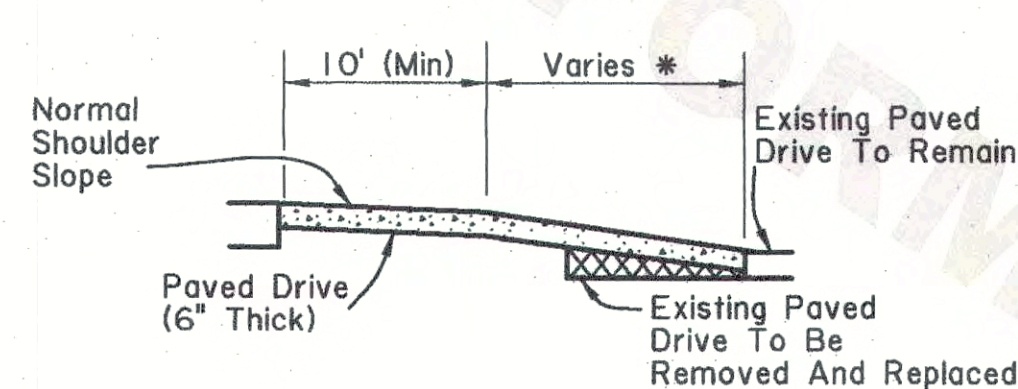


TYPE "E"

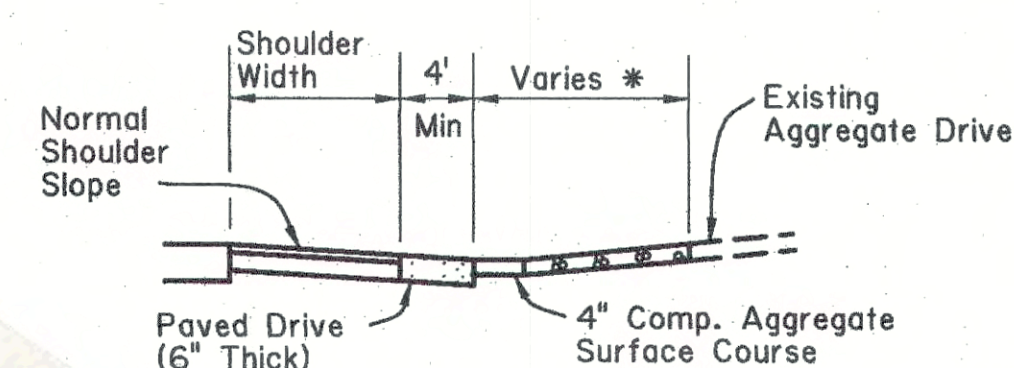
Aggregate Surface Course Drive To Be Used At Locations Where Drive Does Not Connect To Residence Or Commercial Establishments



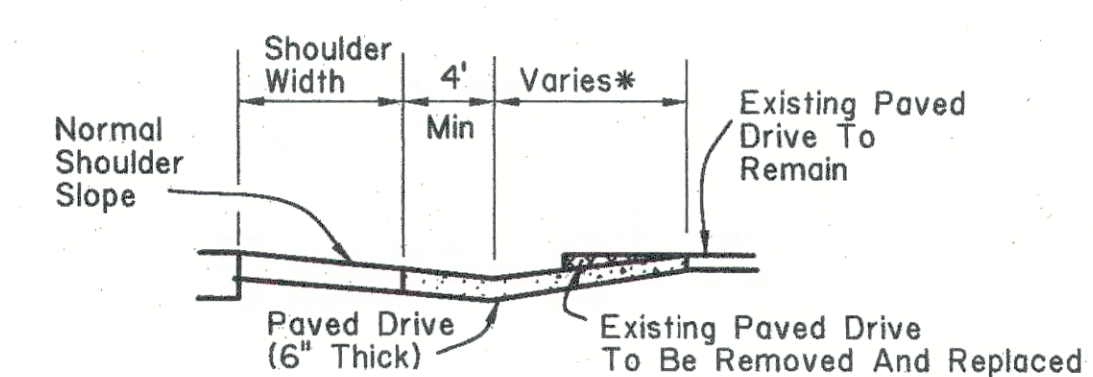
SECTION A-A



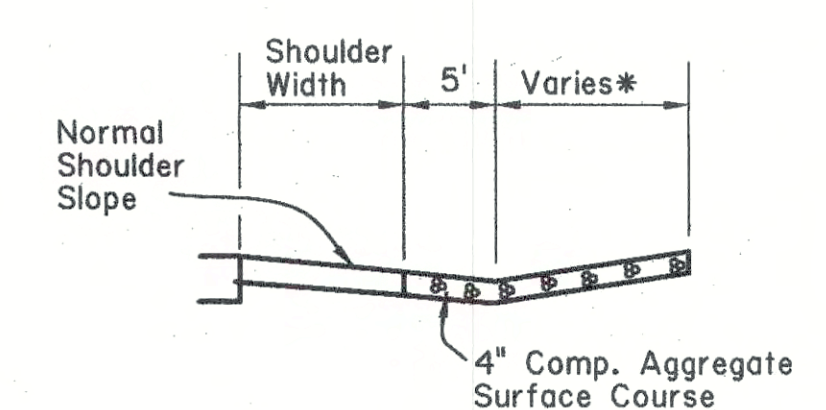
SECTION B-B



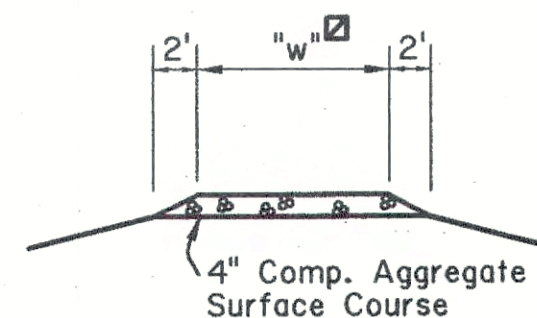
SECTION C-C



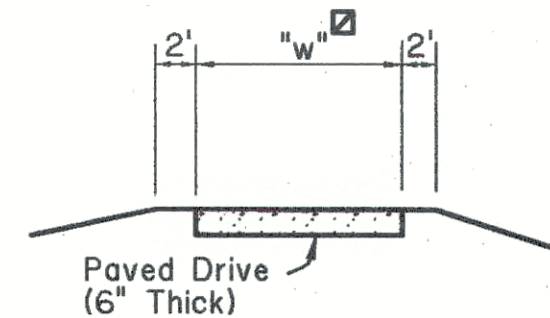
SECTION D-D



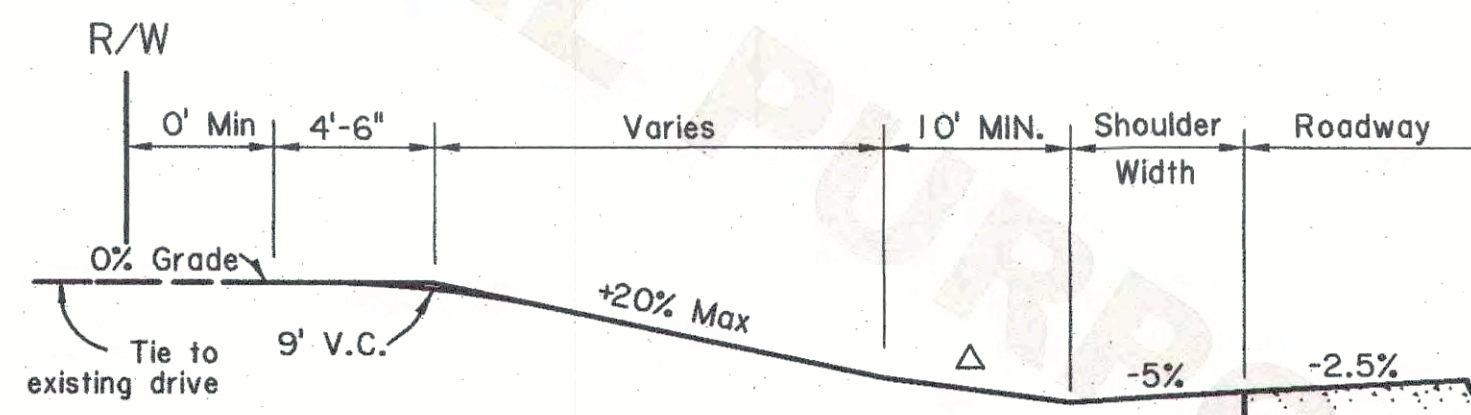
SECTION E-E



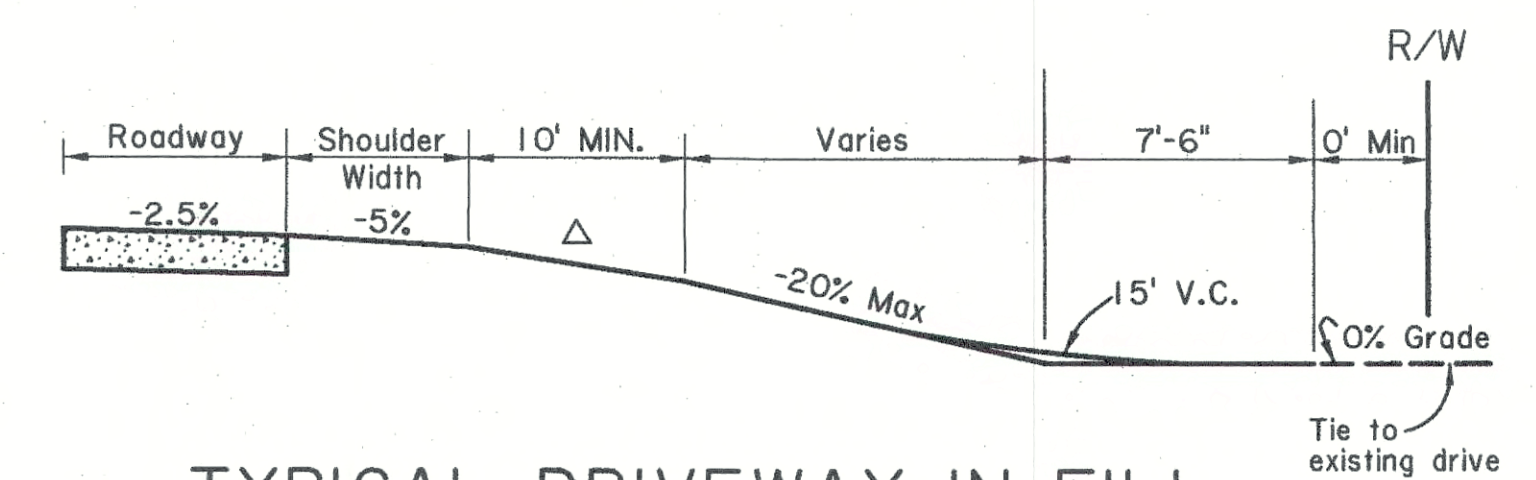
SECTION F-F



SECTION G-G



TYPICAL DRIVEWAY IN CUT



TYPICAL DRIVEWAY IN FILL

□ "W" = Width as per plans

NOTES:

1. PORTLAND CEMENT CONCRETE DRIVES WILL BE CONSTRUCTED TO REPLACE OR CONNECT TO EXISTING CONCRETE DRIVES. ALL OTHER DRIVES ARE TO BE ASPHALT CONCRETE, EXCEPT AGGREGATE SURFACE COURSE IS TO BE USED ON INFREQUENTLY USED DRIVES WHICH DO NOT CONNECT TO RESIDENCES OR COMMERCIAL ESTABLISHMENTS.
- \* 2. SEE PLANS: APPLIES WHERE EXISTING DRIVE IS TO BE REMOVED FOR ROADWAY CONSTRUCTION AND/OR TO ACHIEVE VERTICAL GEOMETRY REQUIREMENTS.
3. PAVEMENT SHALL EXTEND 10' MIN FROM EDGE OF PAVED ROADWAY SURFACE (TRAVEL LANE) FOR SINGLE-FAMILY RESIDENTIAL/NON-COMMERICAL AGRICULTURE TYPE CONNECTIONS, AND 25' FOR TRAFFIC GENERATOR (COMMERCIAL) TYPE CONNECTIONS, OR AS PER THE PLANS. PAVED DRIVEWAY FLARE SHALL EXTEND 4' MINIMUM FROM EDGE OF PAVED SHOULDER. RADIUS TRANSITION SHAPE MAY BE USED IN LIEU OF FLARE.
4. WHEN PAVED DRIVES ARE PLACED IN TWO LIFTS, BINDER COURSE MAY BE USED IN THE FIRST LIFT.
5. COMPACTION OF SUBGRADE AND GRADING WORK FOR CONSTRUCTION OF THE PAVED DRIVES SHALL BE SATISFACTORY TO THE ENGINEER AND PAYMENT SHALL BE INCLUDED IN THE DRIVEWAY ITEMS.
- Δ 6. MAXIMUM DRIVEWAY GRADE SHALL BE 20% (25% FOR SPECIAL CASES). MAXIMUM BREAK IN GRADE WITHOUT A VERTICAL CURVE SHALL BE 10% FOR CRESTS AND 9% FOR SAGS, AT NOT LESS THAN 10' INTERVALS.

NOTES FOR OVERLAY PROJECTS:

1. WHEN PAVED DRIVES ARE PLACED IN TWO LIFTS, BINDER COURSE MAY BE USED IN THE FIRST LIFT.
2. DRIVE WIDTHS AND FLARE DIMENSIONS TO BE ADJUSTED TO MATCH EXISTING CONDITIONS AS DIRECTED BY THE PROJECT ENGINEER.
3. LENGTH OF OVERLAY TRANSITION TO BE SET BY PROJECT ENGINEER TO ACHIEVE A SUITABLE CONNECTION FOR EXISTING DRIVE.

LEGEND

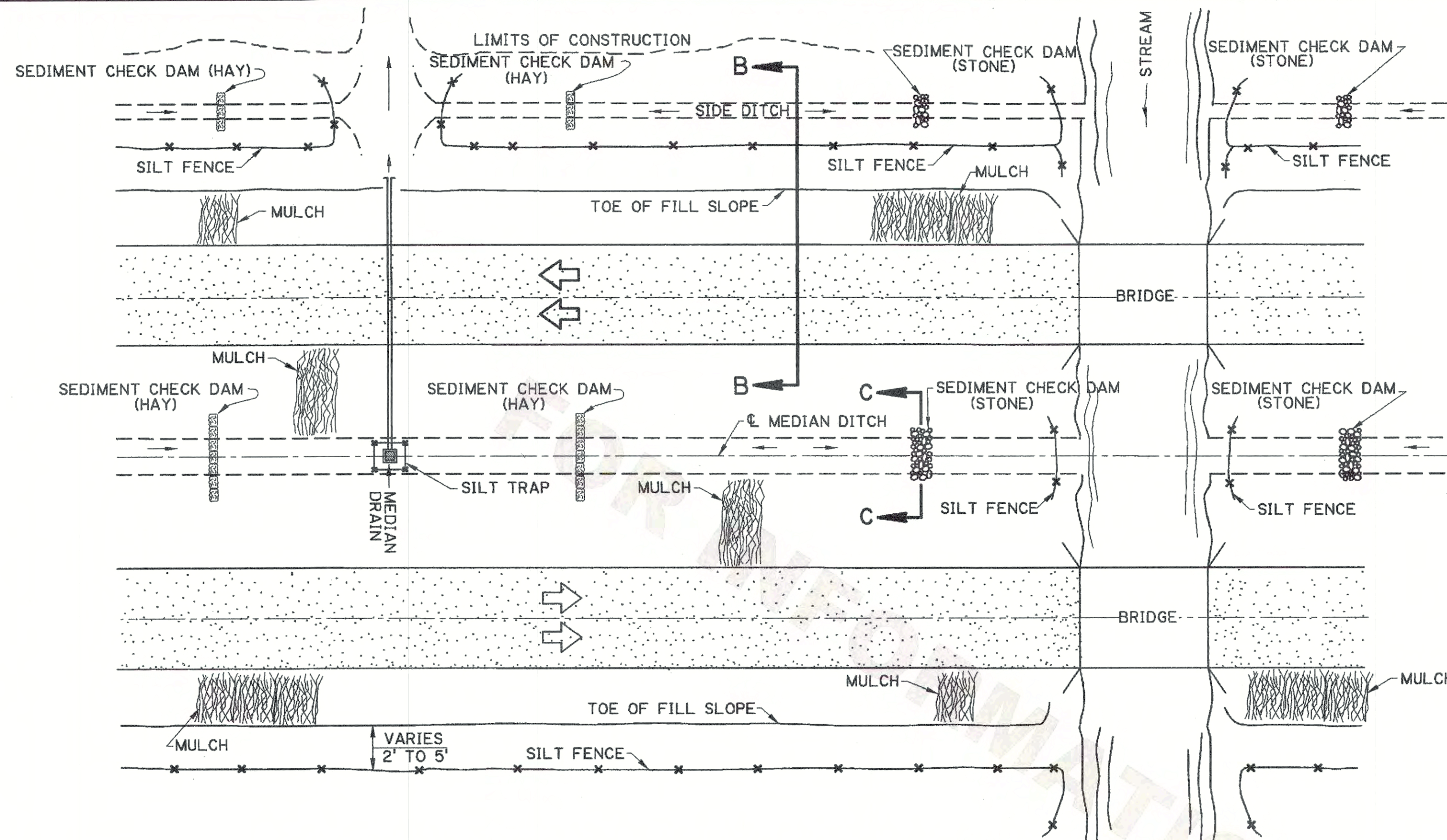
- PAVED
- AGGREGATE
- REMOVAL

11/7/2017



SHEET NUMBER	PARISH	CONTROL SECTION	STATE PROJECT
DESIGNED BY: P. TONEY	CHECKED BY: D. SMITH	DESIGNED BY: P. TONEY	CHECKED BY: D. SMITH
SERIES NUMBER	1	OF	1
REVISION DESCRIPTION	DATE: 11/7/17		
APPROVED BY: Tawnee P. Williams	CHIEF ENGINEER		
DRIVEWAYS ON NON-CURBED ROADWAYS STANDARD PLAN DW-02			



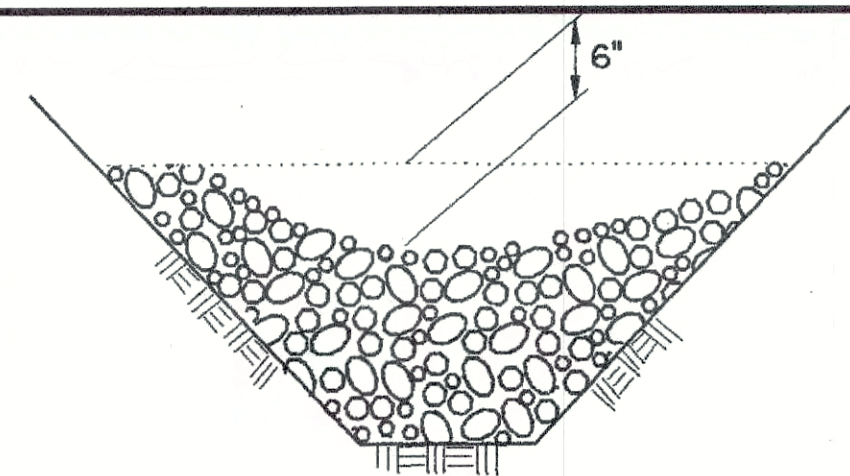


PLAN SHOWING TYPICAL TEMPORARY EROSION CONTROL

**MULCHES**

MULCHES ARE THE APPLICATION OF MATS OF MATERIAL PLACED ON THE SOIL SURFACE TO PREVENT EROSION BY PROTECTING THE SOIL SURFACE FROM RAINDROP IMPACT AND TO REDUCE THE VELOCITY OF OVERLAND FLOW. MULCHES CAN BE ORGANIC OR SYNTHETIC. MULCHES SHALL BE IN ACCORDANCE WITH PROJECT SPECIFICATIONS FOR TEMPORARY EROSION CONTROL. A FEW GUIDELINES FOR THE USE OF MULCHES ARE:

1. USE ON CUT AND EMBANKMENT SLOPES WHICH HAVE NOT BEEN COMPLETED TO PLAN GRADE OR WHERE THE WEATHER OR SOIL CONDITIONS WILL NOT PERMIT COMPLETING THEM WITHIN A REASONABLE TIME
2. USE ON CLEARED, GRUBBED, AND SCALPED AREAS WHERE SOIL EROSION IS LIKELY TO OCCUR
3. USE WITH TEMPORARY SEEDING



SECTION C-C

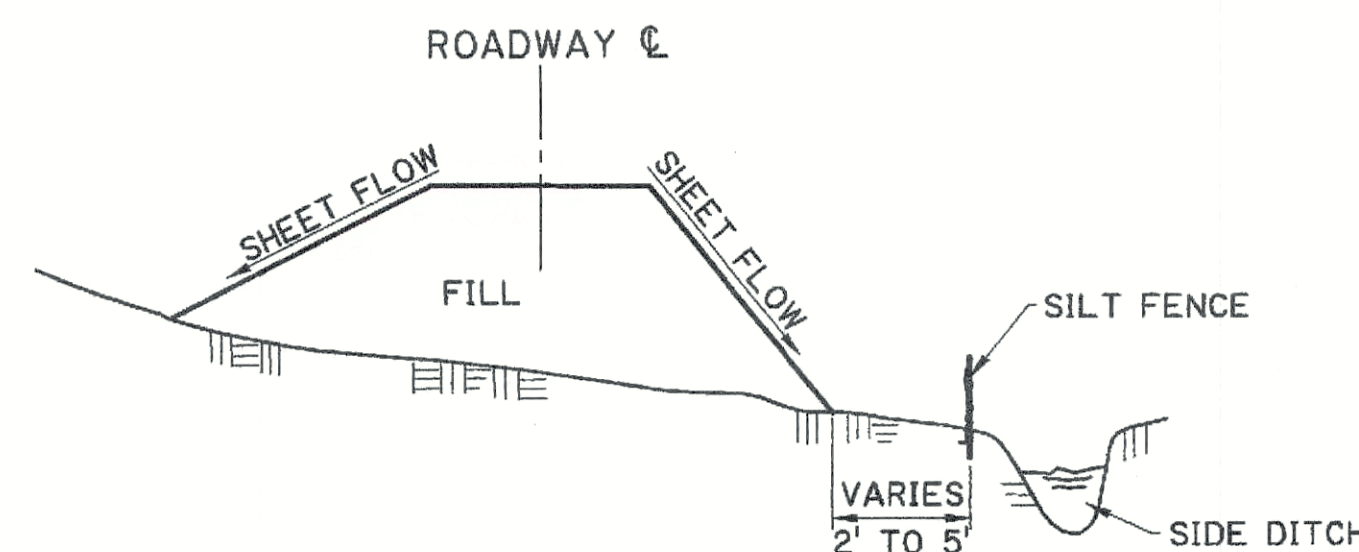
**TEMPORARY SEDIMENT CHECK DAM (STONE)**

PAY ITEM: TEMPORARY SEDIMENT CHECK DAM (STONE)

**NOTES:**

A STONE CHECK DAM IS A SMALL TEMPORARY DAM CONSTRUCTED ACROSS A SWALE OR DRAINAGE DITCH. THE PURPOSE OF THIS MEASURE IS TO REDUCE THE VELOCITY OF CONCENTRATED STORM WATER FLOWS, THEREBY REDUCING EROSION OF THE SWALE OR DITCH. THE STONE CHECK DAM WILL TRAP SMALL AMOUNTS OF SEDIMENTS GENERATED IN THE DITCH ITSELF, HOWEVER IT SHOULD NOT BE USED AS A SEDIMENT TRAPPING DEVICE. A FEW BASIC DESIGN GUIDELINES FOR THE USE OF STONE CHECK DAMS ARE:

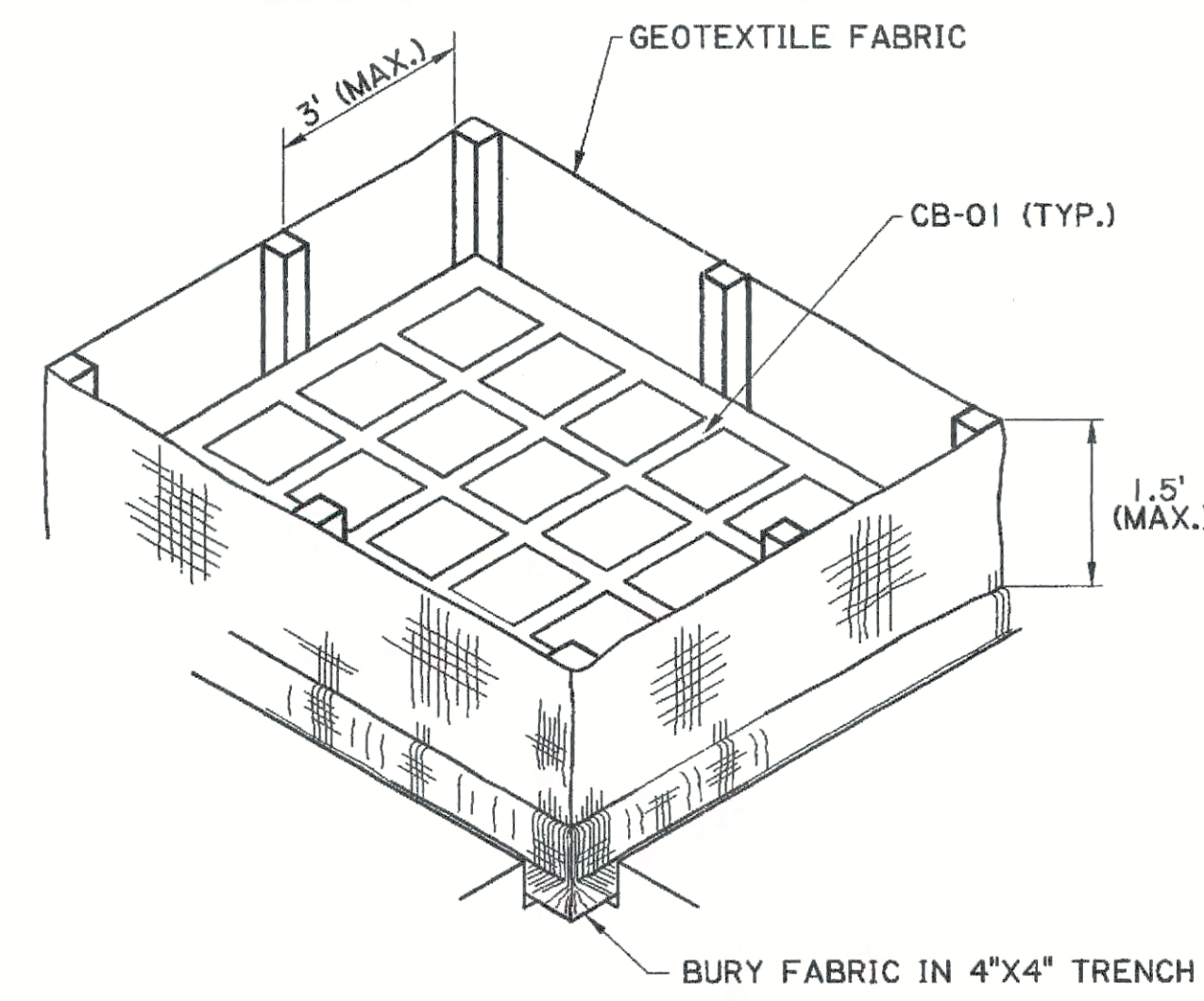
1. USE IN SMALL OPEN CHANNELS WHICH DRAIN 10 ACRES OR LESS
2. DO NOT USE IN A LIVE STREAM
3. USE IN A TEMPORARY DITCH OR SWALE WHICH, BECAUSE OF THEIR SHORT LENGTH OF SERVICE, CANNOT RECEIVE A NON-ERODIBLE LINING
4. USE IN PERMANENT DITCHES OR SWALES WHICH WILL NOT RECEIVE A PERMANENT LINING FOR AN EXTENDED PERIOD OF TIME
5. USE IN TEMPORARY OR PERMANENT DITCHES OR SWALES WHICH NEED PROTECTION DURING THE ESTABLISHMENT OF GRASS LININGS
6. FOR STONE SPECIFICATIONS, SEE PROJECT SPECIFICATIONS FOR RIPRAP, (CLASS 2 LB)



SECTION B-B

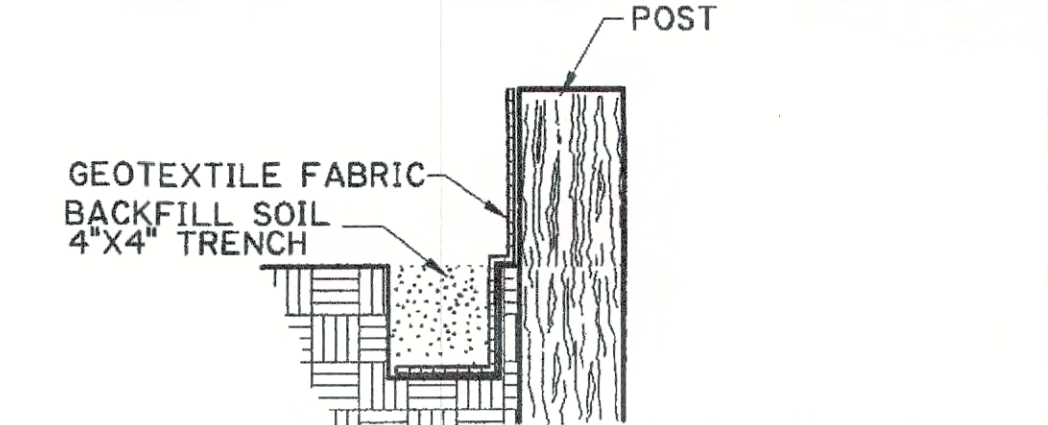
**TEMPORARY SILT FENCE APPLICATION**

(FOR CONSTRUCTION DETAILS AND SPECIFICATIONS SEE SHEET 2 OF 2.)

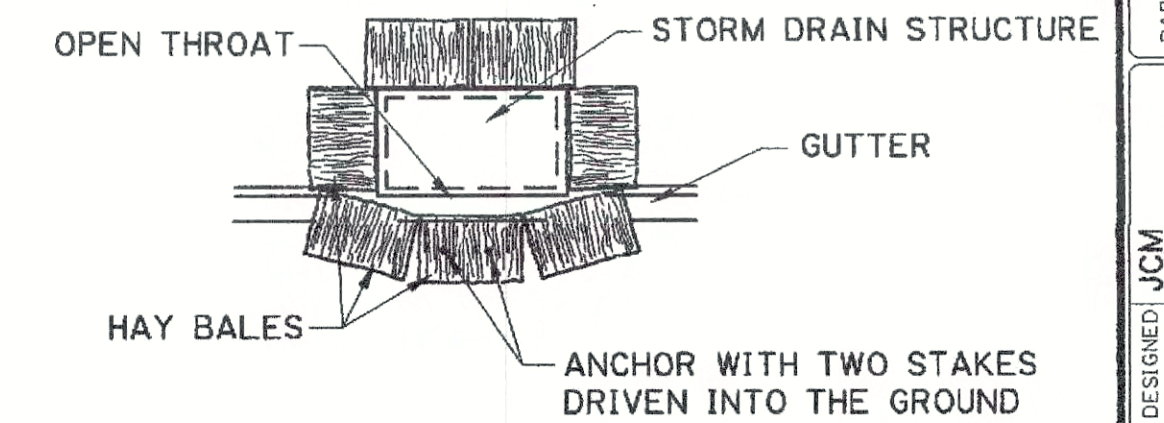


ISOMETRIC VIEW SHOWING GEOTEXTILE FABRIC

(BACKFILL SOIL NOT SHOWN)



SECTION THRU TRENCH SHOWING GEOTEXTILE FABRIC



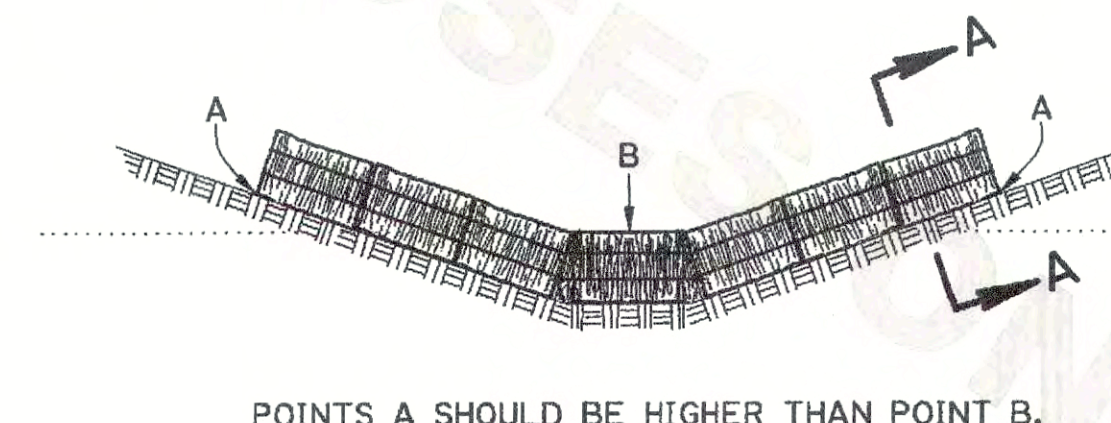
PLAN SHOWING HAY BALES

PAY ITEM: TEMPORARY HAY OR STRAW BALES

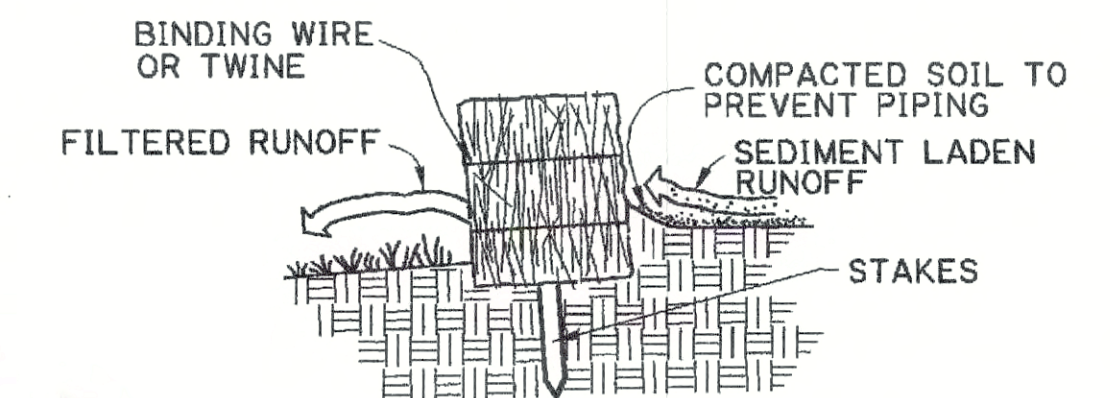
**TEMPORARY INLET SILT TRAP**

THE TEMPORARY DROP INLET SILT TRAP IS TO BE USED FOR SMALL DRAINAGE AREAS (LESS THAN 1 ACRE) WHERE THE STORM DRAIN IS FUNCTIONAL BEFORE THE AREA IS STABILIZED. THE TRAP CAN BE EITHER GEOTEXTILE FABRIC OR HAY BALES.

1. THE GEOTEXTILE FABRIC SHALL CONFORM TO PROJECT SPECIFICATIONS FOR GEOTEXTILE FABRIC (CLASS G).
2. WOODEN STAKES SUPPORTING THE FABRIC SHALL BE 2" X 2" OR 2" X 4" WITH A MINIMUM LENGTH OF 3 FEET. THE STAKES SHALL BE SPACED AROUND THE INLET AT A MAXIMUM SPACING OF 3 FEET.
3. THE HEIGHT OF THE FABRIC ABOVE THE INLET SHALL BE LIMITED TO 1.5' AND THE BOTTOM OF THE FABRIC SHALL BE BURIED IN A TRENCH APPROXIMATELY 4" WIDE BY 4" DEEP. THE FABRIC SHALL BE STAPLED TO THE POST WITH 1/2" STAPLES.
4. THE TRAP SHOULD BE INSPECTED REGULARLY AND AFTER EACH STORM. THE SEDIMENT SHOULD BE REMOVED AND EACH STAKE SHOULD BE FIRMLY IN THE GROUND.
5. HAY BALES SHALL BE PLACED SO THAT THE BINDING WIRE OR TWINE IS NOT IN CONTACT WITH THE GROUND.



ELEVATION





SECTION A-A

**TEMPORARY SEDIMENT CHECK DAM (HAY)**

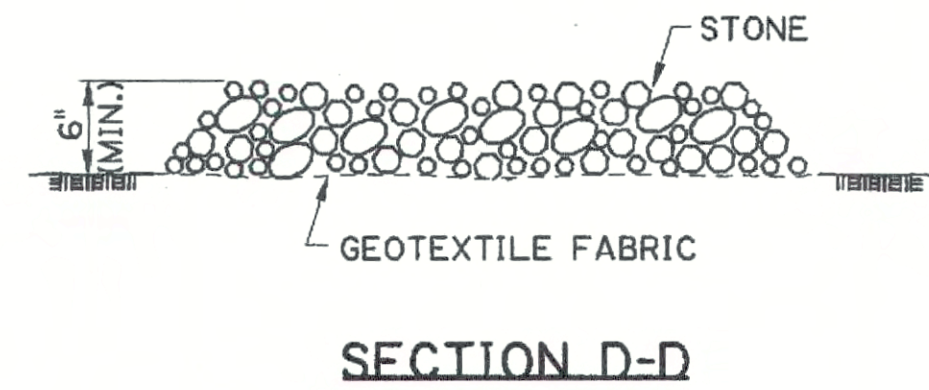
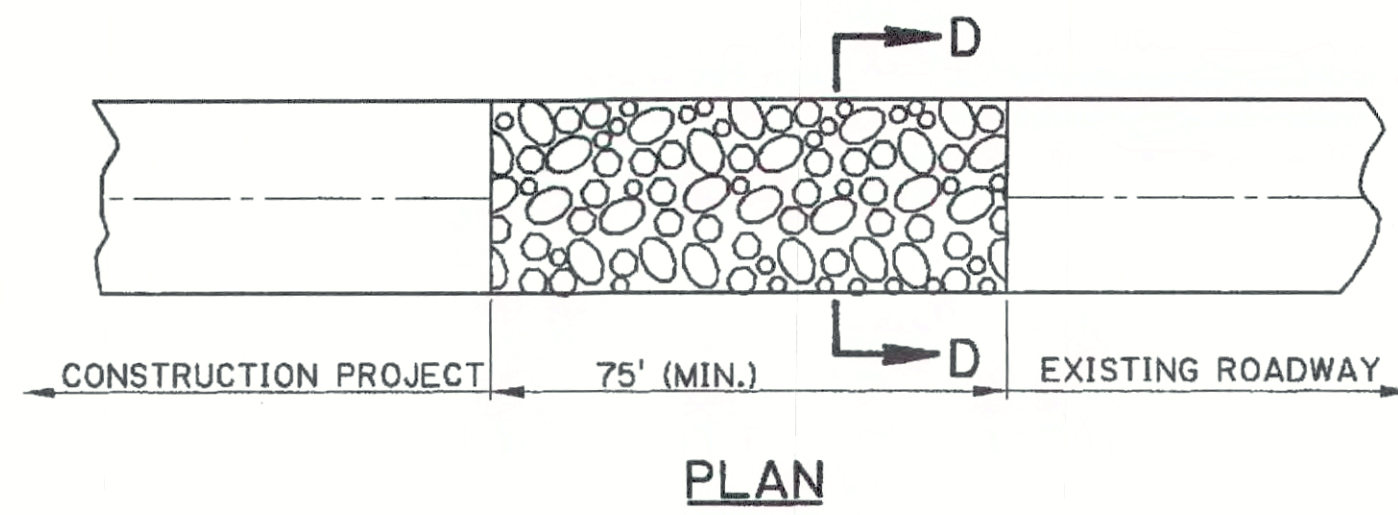
PAY ITEM: TEMPORARY SEDIMENT CHECK DAM (HAY)

**NOTES:**

- A HAY BALE BARRIER IS A TEMPORARY SEDIMENT BARRIER CONSISTING OF A ROW OF ENTRENCHED AND ANCHORED BALES OF STRAW OR HAY. THE HAY BALE BARRIER IS ALSO USED AS A CHECK DAM TO REDUCE THE VELOCITY IN SMALL DITCHES OR SWALES. THE HAY BALES SHALL BE IN ACCORDANCE WITH PROJECT SPECIFICATIONS FOR TEMPORARY EROSION CONTROL. A FEW BASIC DESIGN GUIDELINES FOR THE USE OF A HAY BALE BARRIER ARE:
1. USE WHERE EROSION WOULD OCCUR IN THE FORM OF SHEET AND RILL EROSION
  2. USE IN MINOR SWALES OR DITCHES WHERE THE MAXIMUM DRAINAGE AREA IS 2 ACRES
  3. ONLY USE WHERE THE EFFECTIVENESS IS REQUIRED FOR LESS THAN 3 MONTHS
  4. DO NOT USE IN LIVE STREAMS OR IN SWALES OR DITCHES WHERE THERE IS A POSSIBILITY OF A WASHOUT

SHEET NUMBER	PARISH	FEDERAL PROJECT	STATE PROJECT
DESIGNED	JCM	DETAILED	KAV
CHECKED		CHECKED	JCM
DATE	1-14-94	DATE	1-14-94
REVISION DESCRIPTION		REVISION DESCRIPTION	
10-1-08 REMOVE SPECIFIC PAY ITEM NOS., GENERAL REVISIONS	MH	BY	W. H. Temple
DATE		DATE	10-1-08
APPROVED BY		CHIEF ENGINEER	
			
<b>TEMPORARY EROSION CONTROL DETAILS</b>			
STANDARD PLAN EC-01			
			
HYDRAULICS SECTION			





### TEMPORARY STONE CONSTRUCTION ENTRANCE

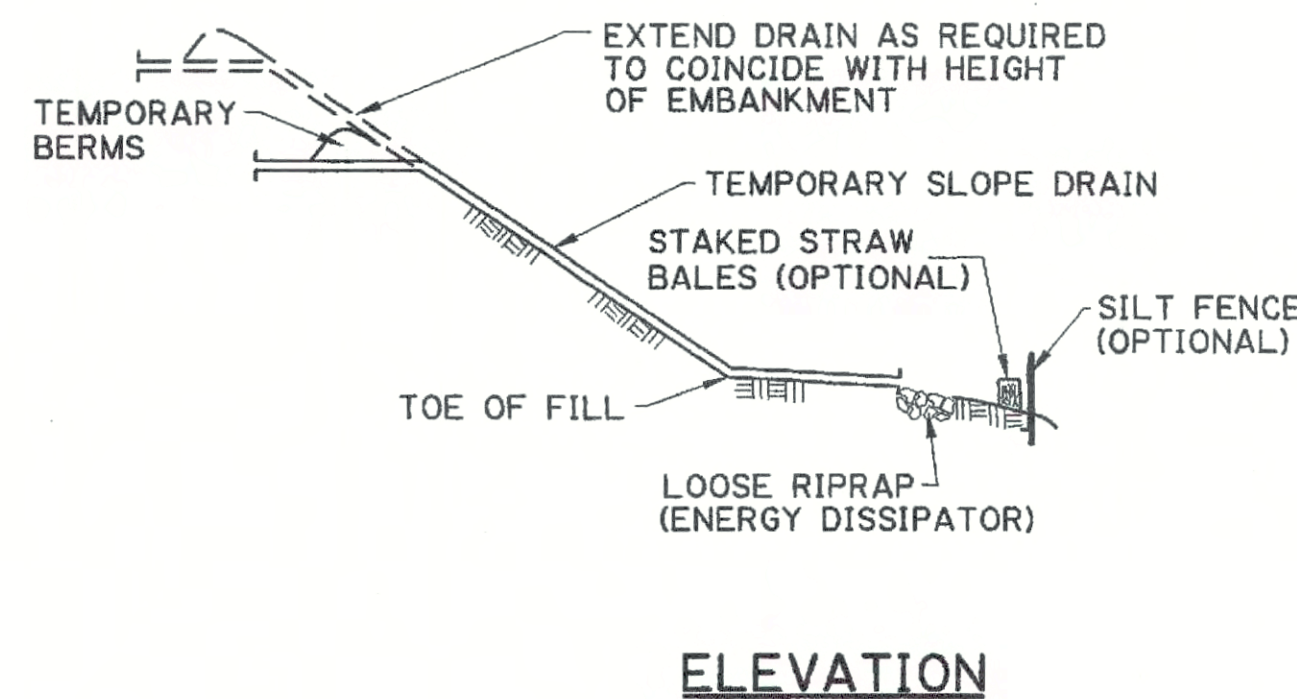
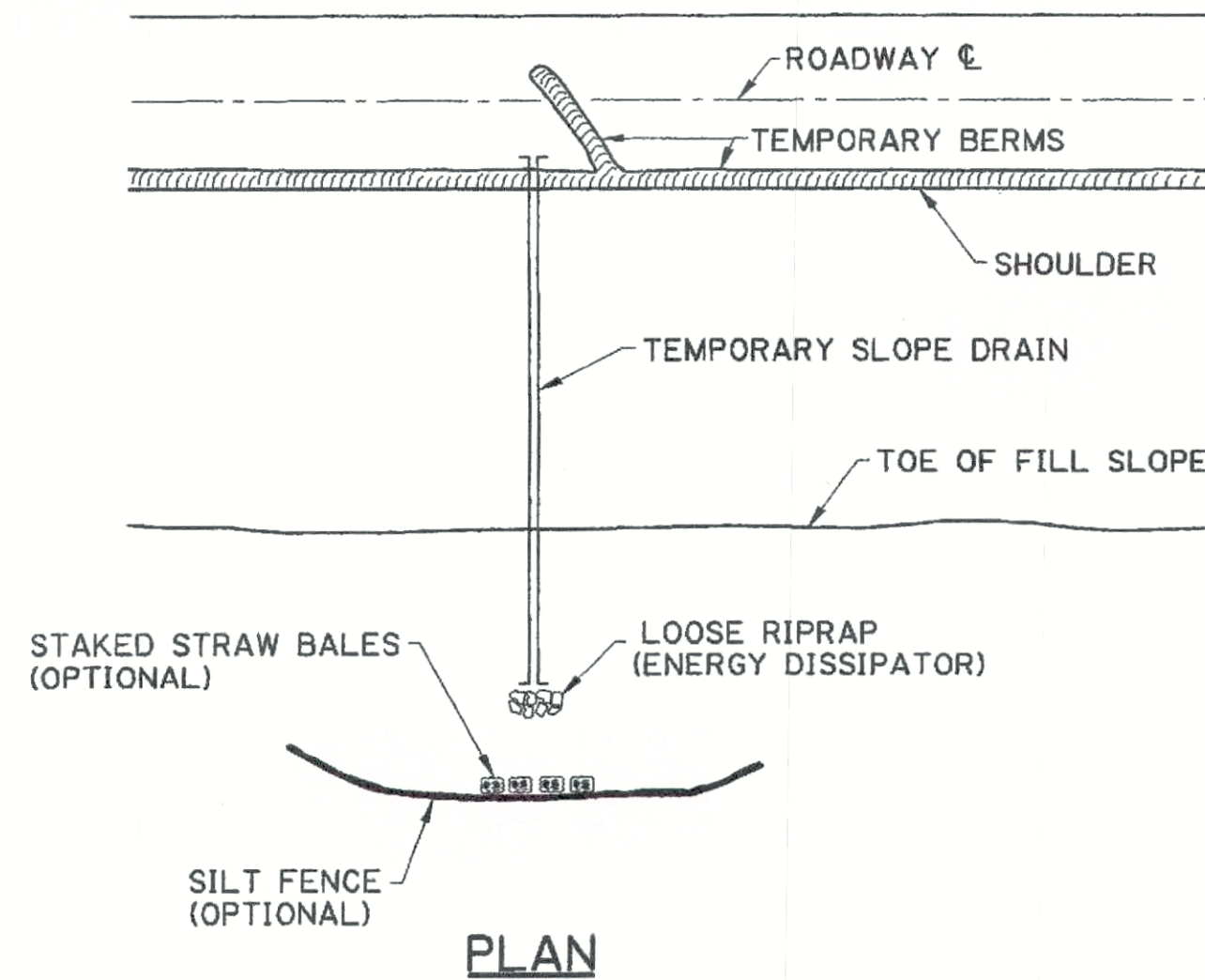
PAY ITEM: TEMPORARY STONE CONSTRUCTION ENTRANCE

**NOTES:**

**TEMPORARY STONE CONSTRUCTION ENTRANCE AND/OR WASH RACK**

A STONE STABILIZED PAD LOCATED AT POINTS OF VEHICULAR INGRESS AND EGRESS ON THE CONSTRUCTION SITE TO REDUCE THE AMOUNT OF MUD TRANSPORTED ONTO PUBLIC ROADS. IF THE ACTION OF THE VEHICLE TRAVELING OVER THE GRAVEL PAD IS NOT SUFFICIENT TO REMOVE THE MAJORITY OF THE MUD, THEN THE TIRES MUST BE WASHED BEFORE THE VEHICLE ENTERS A PUBLIC ROAD. A FEW BASIC DESIGN GUIDELINES FOR THE USE OF A STONE ENTRANCE AND/OR WASH RACKS ARE:

1. THE STONE LAYER MUST BE AT LEAST 6 INCHES THICK.
2. THE STONE SHALL CONFORM TO PROJECT SPECIFICATIONS FOR RIPRAP (CLASS 2 LB).
3. THE LENGTH OF THE PAD MUST BE A LEAST 75 FEET AND IT MUST EXTEND THE FULL WIDTH OF THE VEHICULAR INGRESS AND EGRESS.
4. A GEOTEXTILE FABRIC UNDERLINER IS REQUIRED. THE GEOTEXTILE FABRIC SHALL BE IN ACCORDANCE WITH PROJECT SPECIFICATIONS FOR GEOTEXTILE FABRIC (CLASS D).
5. IF A WASH RACK IS NECESSARY, PROVISIONS MUST BE MADE TO INTERCEPT THE WASH WATER AND TRAP THE SEDIMENT BEFORE IT IS CARRIED OFF-SITE.

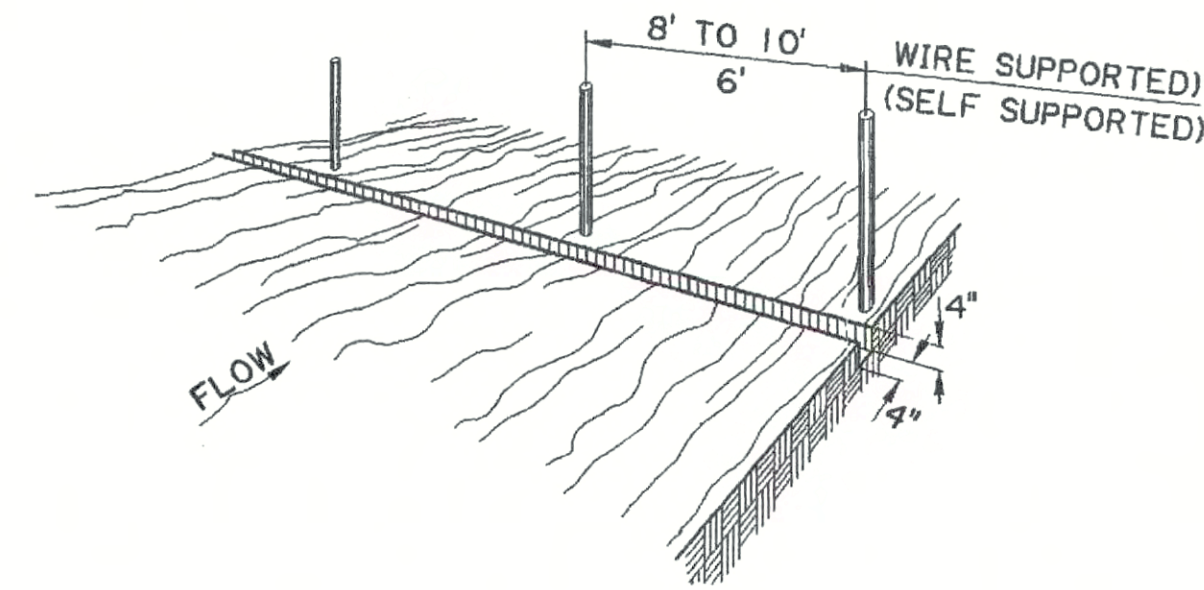


### TEMPORARY SLOPE DRAIN

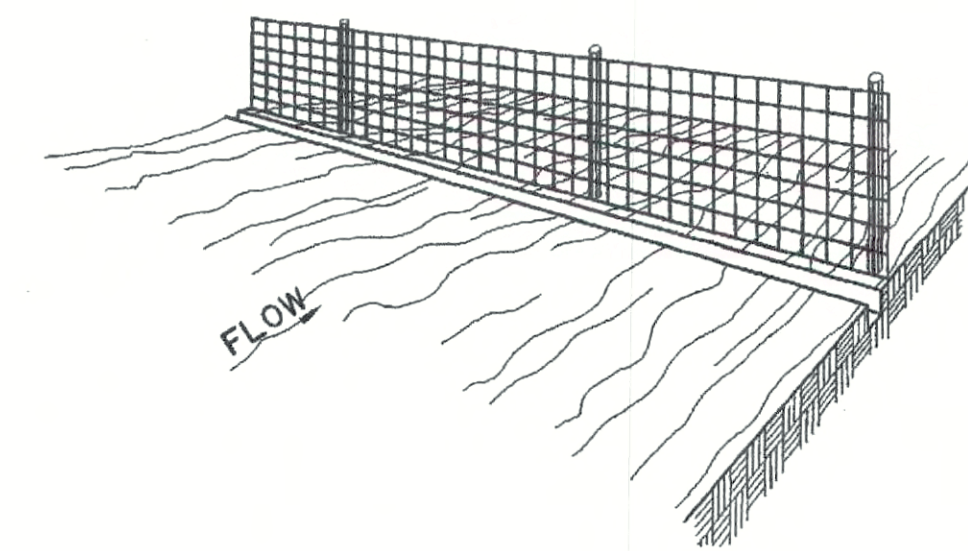
A TEMPORARY SLOPE DRAIN IS A DEVICE USED TO CARRY WATER FROM THE CONSTRUCTION WORK AREA TO A LOWER ELEVATION. SLOPE DRAINS MAY BE PLASTIC SHEET, METAL OR PLASTIC PIPE, STONE GUTTERS, FIBER MATS, OR CONCRETE OR ASPHALT DITCHES. A FEW BASIC DESIGN GUIDELINES FOR THE USE OF A TEMPORARY SLOPE DRAIN ARE:

1. THE SPACING OF THE SLOPE DRAINS VARIES WITH THE ROAD GRADE.  
FOR GRADES: 0.0% - 2.0% USE 500' SPACING  
2.1% - 5.0% USE 200' SPACING  
GREATER THAN 5.0% USE 100' SPACING
2. SLOPE DRAIN MATERIAL: SMOOTH PIPE - 8" MINIMUM - 3 MILS THICK MIN.  
CORRUGATED PIPE - 12" MINIMUM  
PLASTIC SHEETING - 4' WIDE MINIMUM  
PLASTIC SHEETING - 3 MILS THICK MIN.
3. PLASTIC SHEETING CAN BE STAKED DOWN OR WEIGHTED WITH ROCKS OR LOGS. THE AREA UNDER THE SHEETING SHOULD BE SHAPED TO PROVIDE AN ADEQUATE CHANNEL.
4. THE OUTLET END SHOULD BE PROTECTED OR HAVE SOME MEANS OF DISSIPATING ENERGY. THE FLOW SHOULD BE DIRECTED THROUGH A SEDIMENT TRAP SUCH AS A SILT FENCE, HAY BALES, OR OTHER APPROVED SEDIMENT CONTROL DEVICES.
5. TO INSURE PROPER OPERATION, TEMPORARY SLOPE DRAINS SHOULD BE INSPECTED REGULARLY AND AFTER EACH STORM, FOR CLOGGING OR DISPLACEMENT. EROSION AT THE OUTLET SHOULD BE CHECKED AND THE SILT TRAPS CLEANED IF NECESSARY.

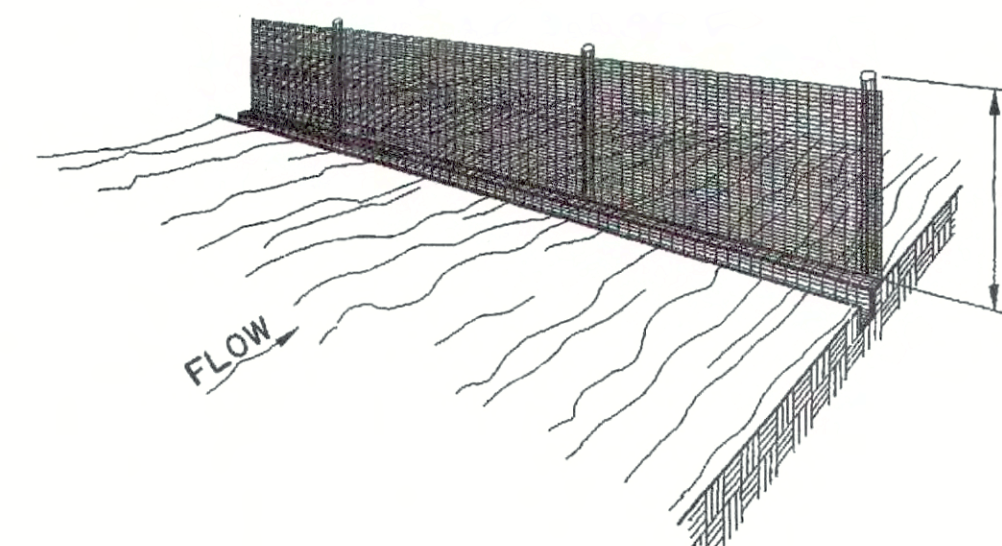
1. SET POSTS AND EXCAVATE A 4" X 4" TRENCH UPSLOPE ALONG THE LINE OF POSTS.



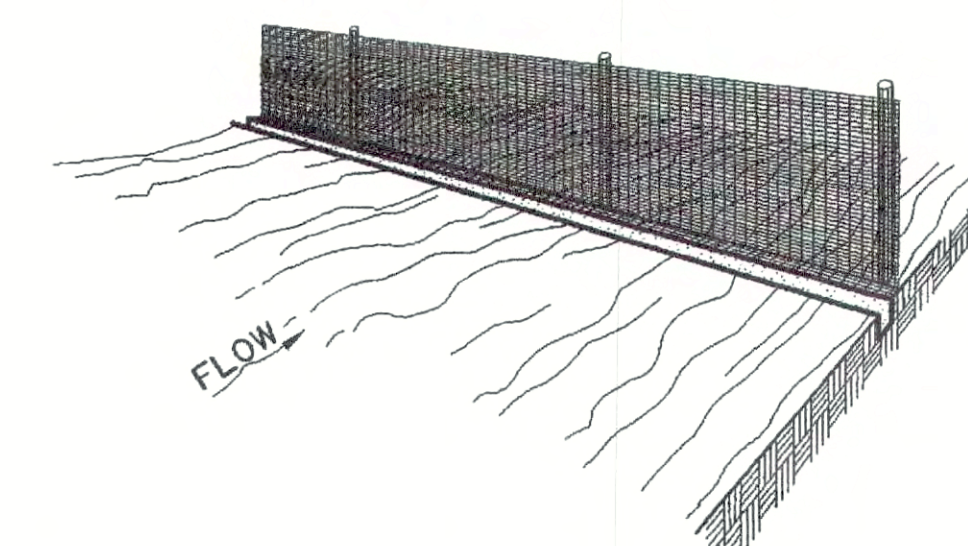
2. STAPLE WIRE FENCING TO THE POSTS.



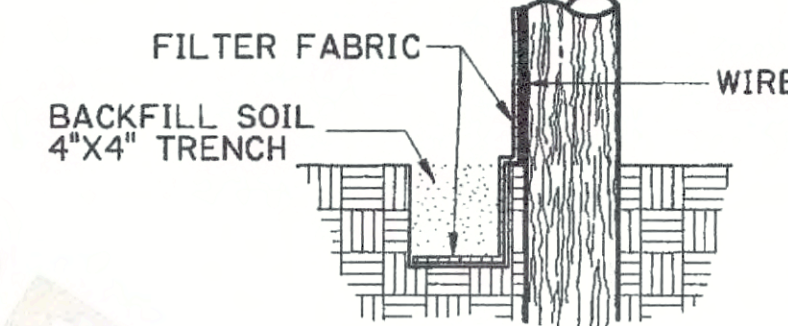
3. ATTACH THE FILTER FABRIC TO THE WIRE FENCE AND EXTEND IT INTO THE TRENCH.



4. BACKFILL AND COMPACT EXCAVATED SOIL.



EXTENSION OF FABRIC INTO THE TRENCH.



### CONSTRUCTION OF TEMPORARY SILT FENCING

(WIRE SUPPORTED SILT FENCE IS SHOWN. SELF SUPPORTED SILT FENCE WILL BE CONSTRUCTED ACCORDING TO MANUFACTURERS SPECIFICATIONS.)

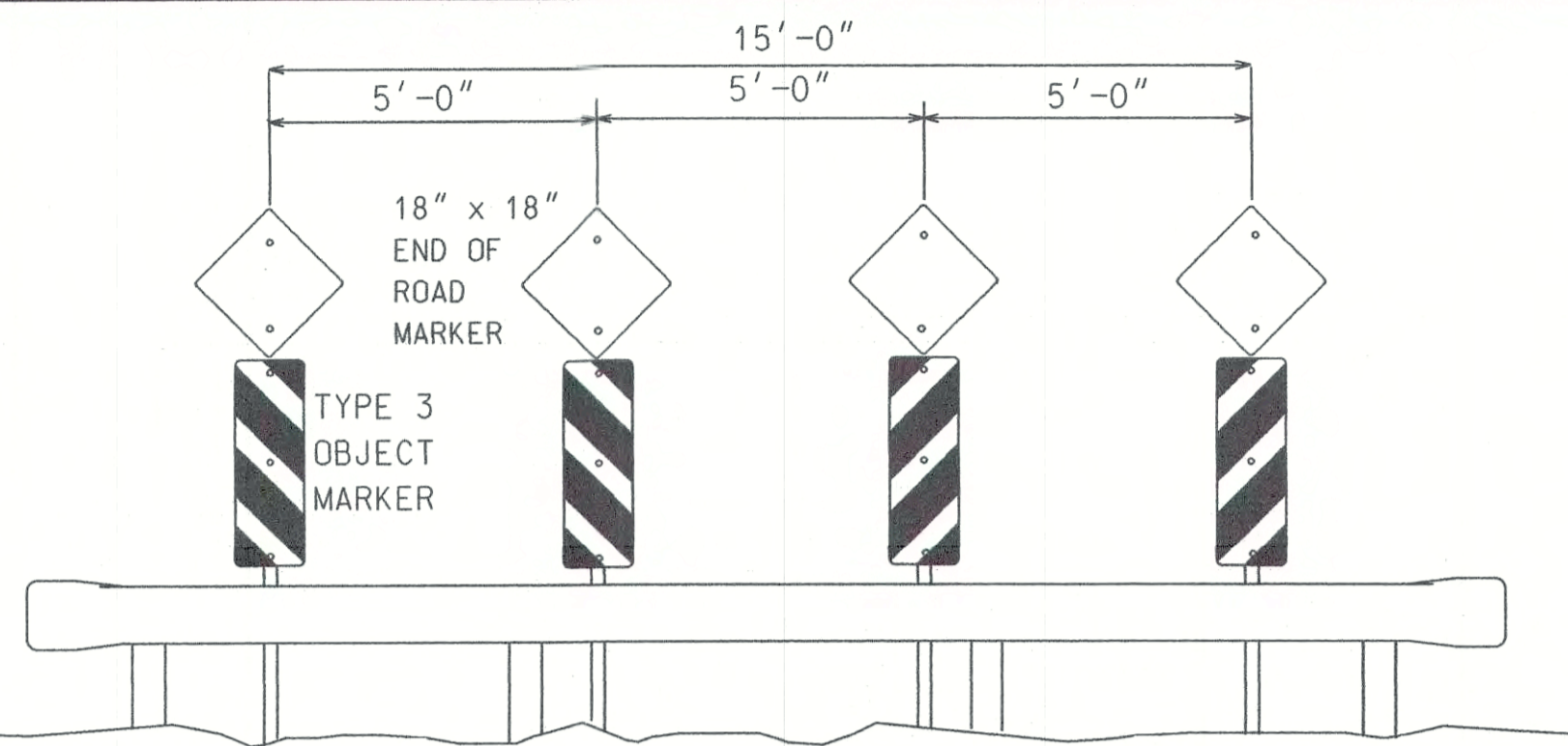
**NOTES:**

SILT FENCING IS A TEMPORARY SEDIMENT BARRIER CONSISTING OF A FILTER FABRIC SUPPORTED BY POSTS AND STRETCHED ACROSS AN AREA TO INTERCEPT AND DETAIN SMALL AMOUNTS OF SEDIMENT. THE SILT FENCING SHALL BE IN ACCORDANCE WITH PROJECT SPECIFICATIONS FOR TEMPORARY EROSION CONTROL. A FEW BASIC GUIDELINES FOR THE USE OF SILT FENCING ARE:

1. USE WHERE EROSION WOULD OCCUR IN THE FORM OF SHEET AND RILL EROSION
2. USE WHERE THE MAXIMUM DRAINAGE AREA BEHIND THE SILT FENCE IS 1/4 ACRE PER 100 FEET OF SILT FENCE LENGTH
3. USE WHERE THE MAXIMUM SLOPE LENGTH BEHIND THE BARRIER IS 100 FEET
4. USE THERE THE MAXIMUM GRADIENT BEHIND THE BARRIER IS 2:1
5. DO NOT USE SILT FENCES IN LIVE STREAMS OR IN DITCHES OR SWALES WHERE FLOWS EXCEED ONE CUBIC FOOT PER SECOND

SHEET NUMBER	
PARISH	
FEDERAL PROJECT	
STATE PROJECT	
DESIGNED / CHECKED	JCM
DETAILED / CHECKED	KAJ / JCM
DATE	1-14-94
SHEET	2 OF 2
REVISION DESCRIPTION	
DATE	10-1-08
APPROVED BY	W. H. Temple
CHEF ENGINEER	
<b>TEMPORARY EROSION CONTROL DETAILS</b>	
STANDARD PLAN EC-01	
HYDRAULICS SECTION	



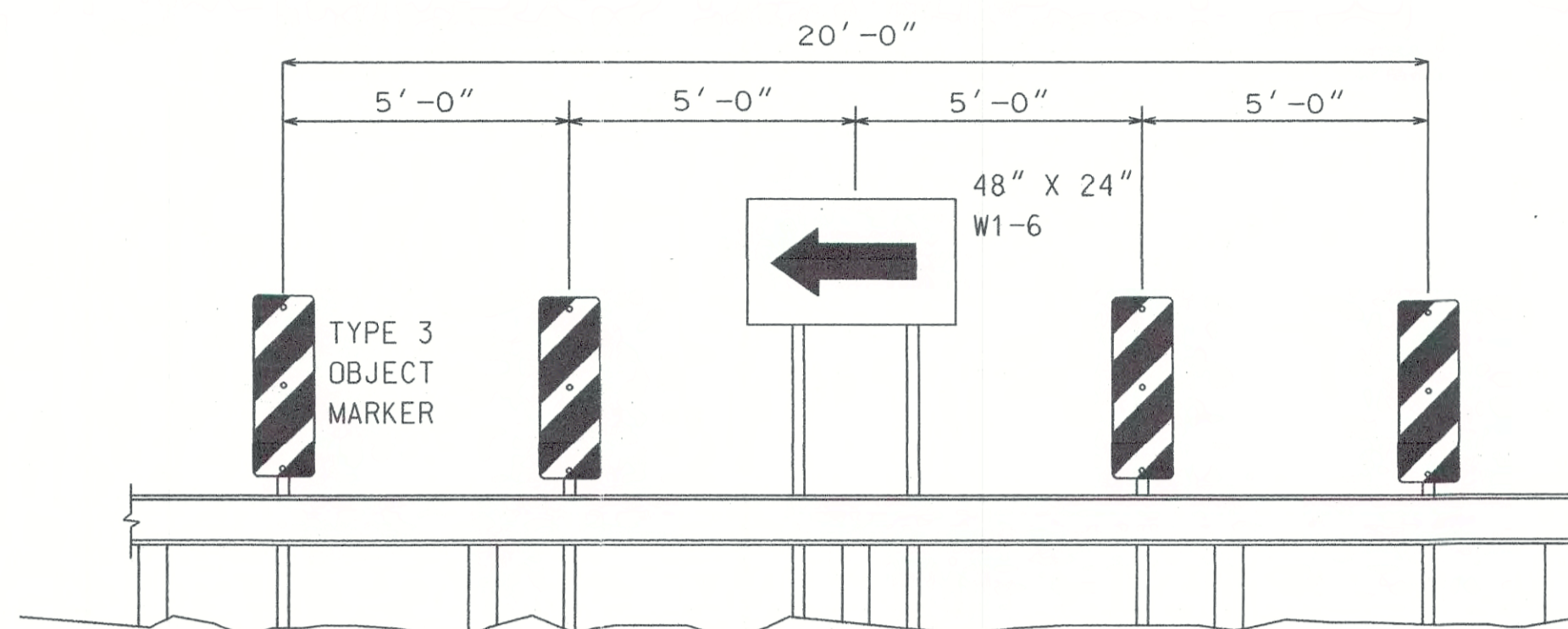


### END-OF-ROADWAY INSTALLATION

DEAD END ROAD INSTALLATION  
(TYPE A - WITH GUARD RAIL, TYPE D - WITHOUT GUARDRAIL)

For End of Road installation Object Marker stripes shall slope downward toward the center.

Guardrail to be installed in accordance with guardrail Standard Plans. Typical installation requires 25 ft. of rail with flared end sections.

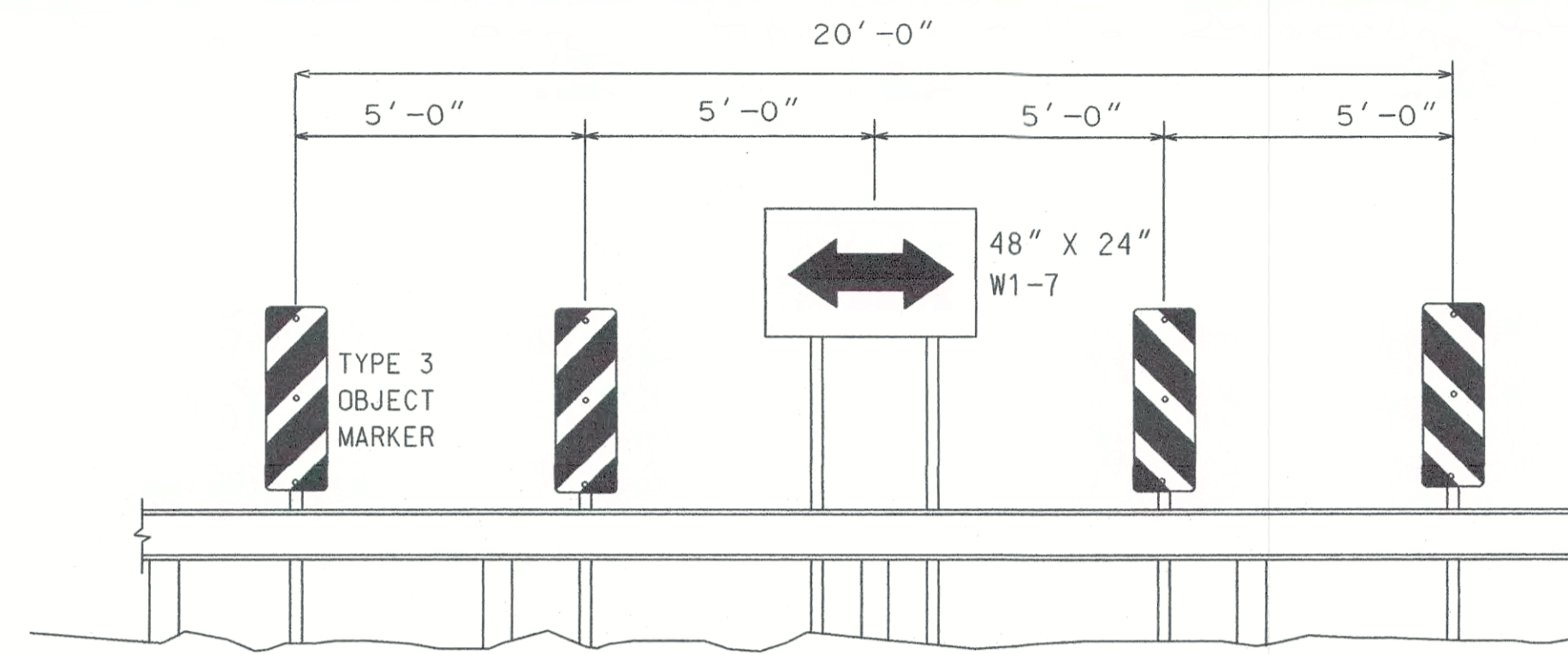


### TURN INSTALLATION

DEAD END ROAD INSTALLATION  
(TYPE B - WITH GUARD RAIL, TYPE C - WITHOUT GUARDRAIL)

For Turn installations Object Marker stripes shall slope downward toward the direction of travel.

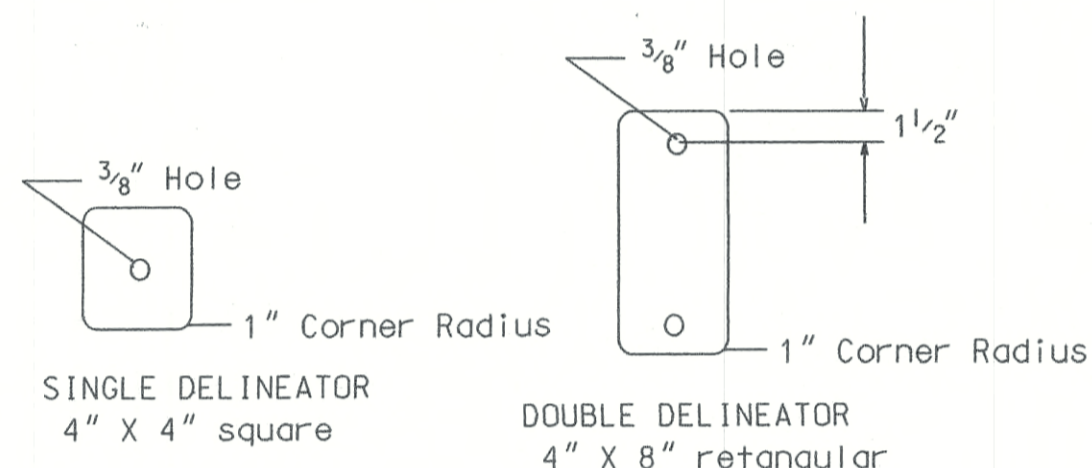
Guard rail to be installed in accordance with guardrail Standard Plans. Typical installation requires 25 ft. of rail with flared end sections.



### T-INTERSECTION INSTALLATION

DEAD END ROAD INSTALLATION  
(TYPE B - WITH GUARD RAIL, TYPE C - WITHOUT GUARDRAIL)

For T-intersection installations Object Marker stripes shall slope away from center. Guardrail to be installed in accordance with guardrail Standard Plans. Typical installation requires 25 ft. of rail with flared end sections.



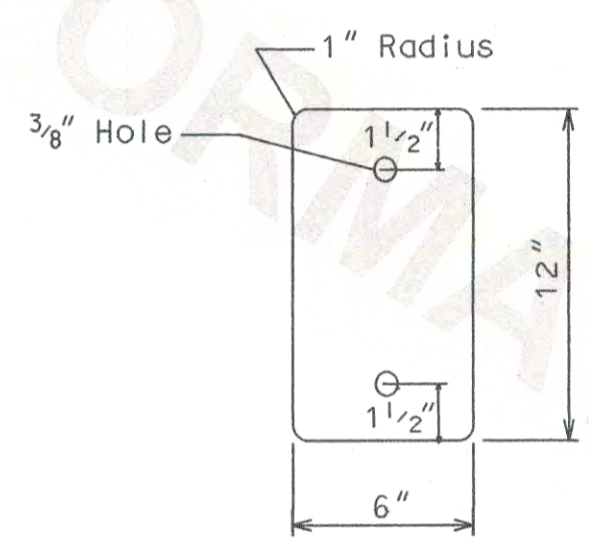
### DETAIL OF DELINEATORS

Colors shall be red, white, or yellow. The sheeting shall be in accordance with DOTD Standard Specification

For alternate Delineator/Flexible Post systems see the DOTD Approved Materials List. Alternates shall have an equivalent area of sheeting and shall not be less than 3 in. wide.

The mounting height shall be the same as for Milepost Markers.

Post penetration in ground shall be a minimum of 2 ft.

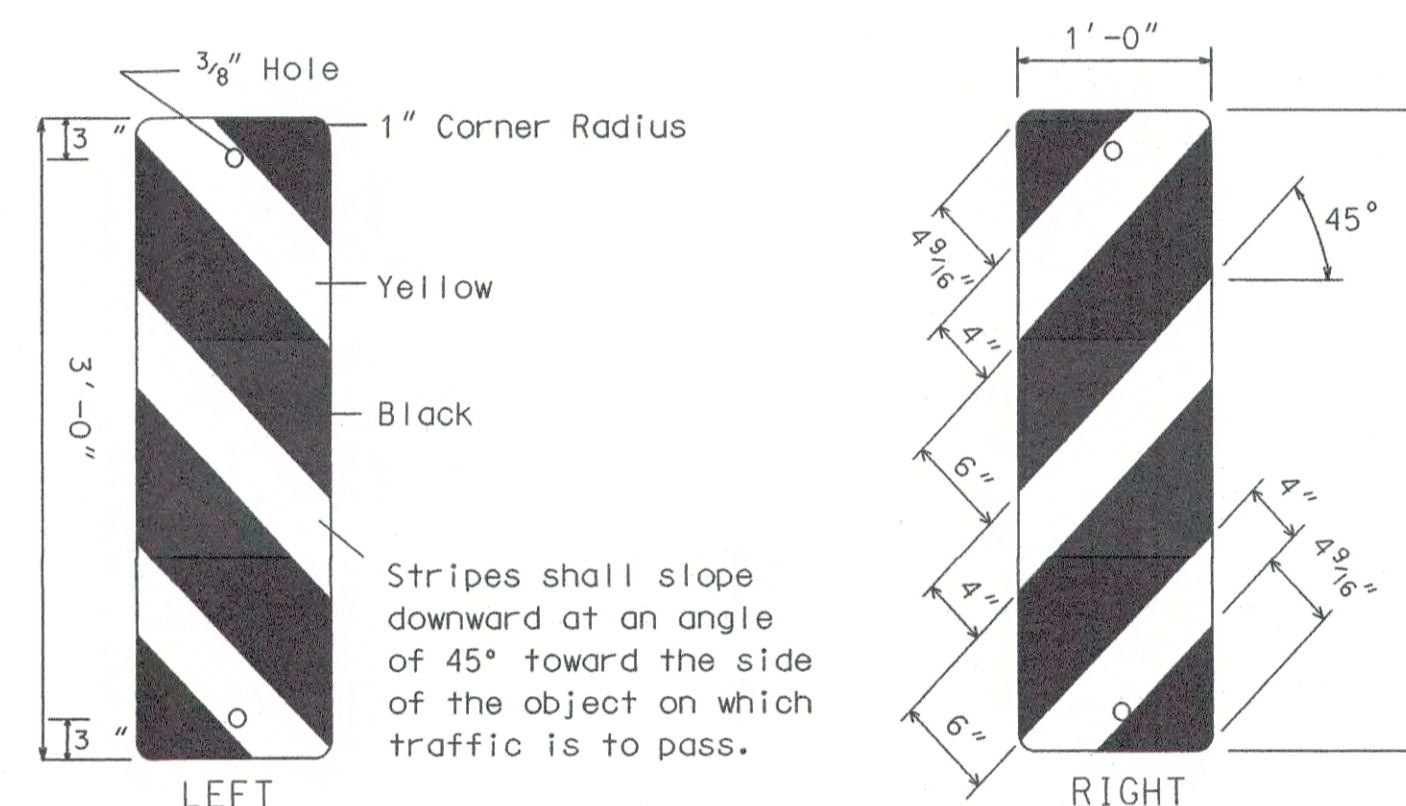


### DETAIL OF TYPE 2 OBJECT MARKER

The face shall be yellow. The sheeting shall be in accordance with DOTD Standard Specification. The typical mounting height from the ground line to the bottom of the object marker shall be 36 in.

Post penetration in ground shall be a minimum of 2 ft.

Type 2 Object Markers are typically used in the right-of-way to mark objects for mowing operations.



### DETAIL OF TYPE 3 OBJECT MARKER

The markings on the Object Markers shall be diagonal, black and yellow stripes. The sheeting shall be in accordance with DOTD Standard Specifications.

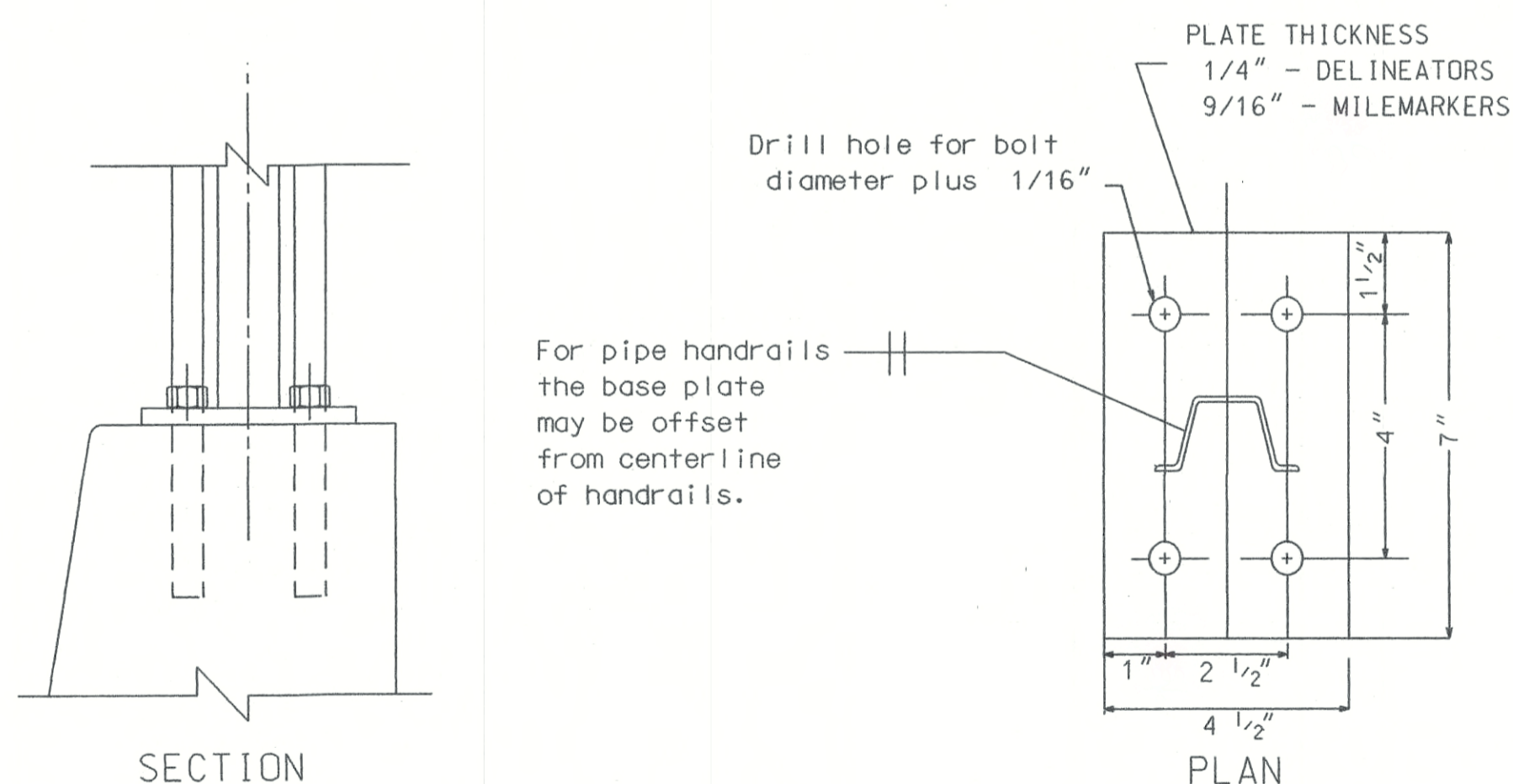
Post penetration in ground shall be a minimum of 3 ft.

Type 3 Object Markers are typically used to mark objects in the roadway (travel lanes and shoulder) and to mark guard rail installation (see guard rail Standard Plans).

When used for marking objects in the roadway or objects that are 8 ft. or less from the shoulder or curb, the mounting height to the bottom of the object marker should be at least 4 ft. above the surface of the nearest traffic lane.

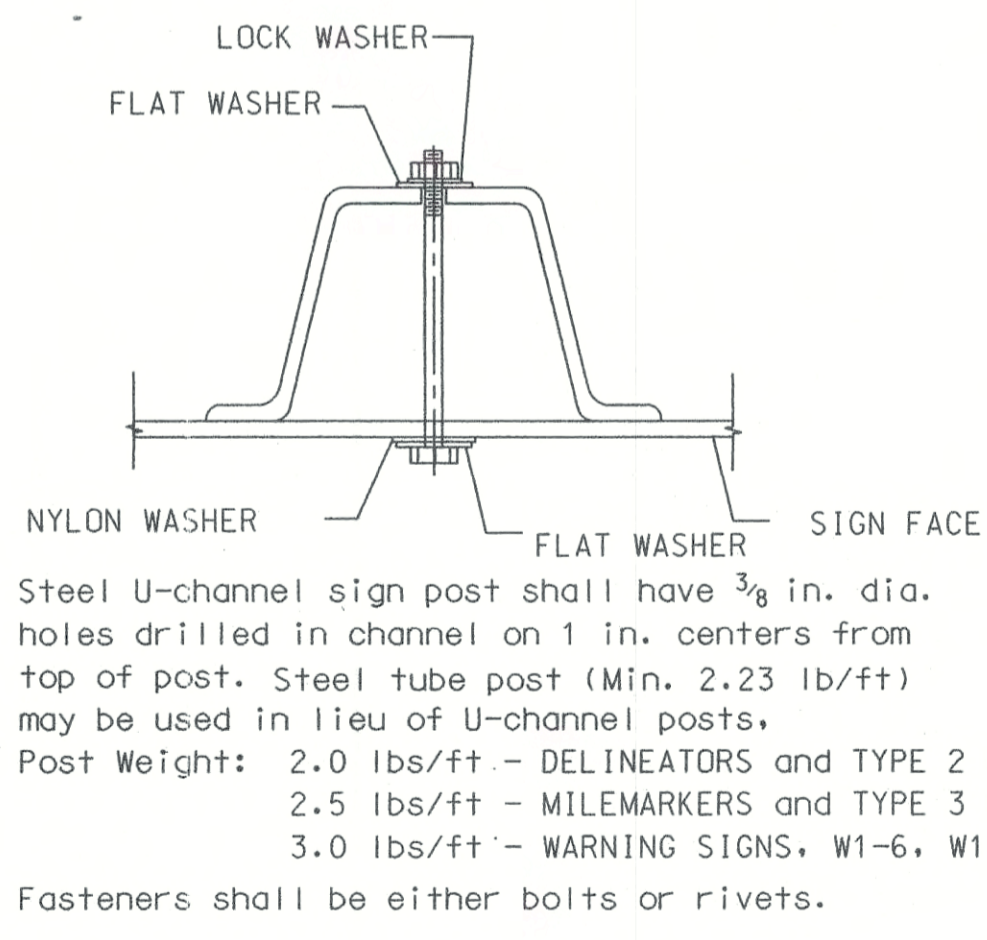
When used to mark objects more than 8 ft. from the shoulder or curb, the mounting height to the bottom of the object marker should be at least 4 ft. above the ground.

Note: For mile markers on conventional roads. See the details shown on the Special Signing Details sheets-B. This is in accordance with MUTCD signs D10-4 & D10-5 in Figure 2H-4.



Anchor Bolts  
1/4 in. plate - 5/16 in. x 4 in. bolt  
3/16 in. plate - 1/2 in. x 5 in. bolt  
For bolt anchors see DOTD Approved Materials List.

### DETAIL FOR MOUNTING SIGN POST TO CONCRETE BARRIER RAIL



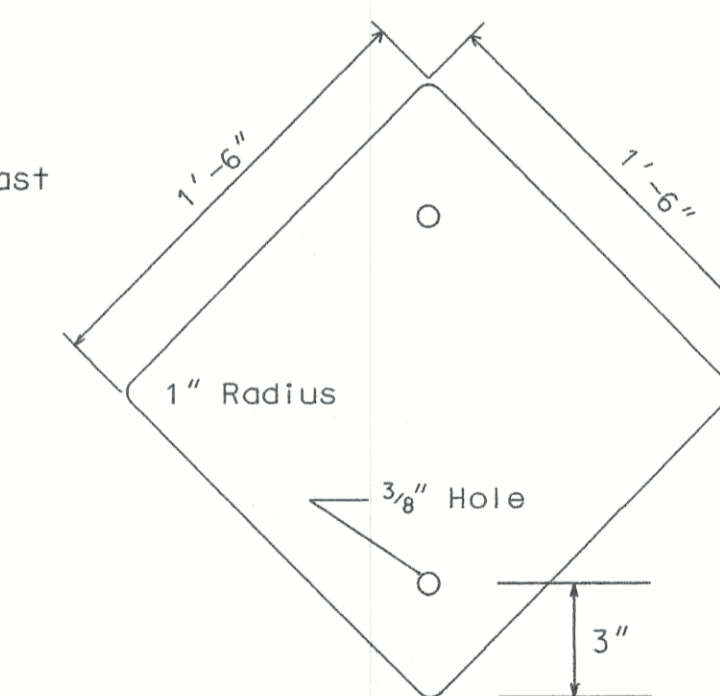
Steel U-channel sign post shall have 3/8 in. dia. holes drilled in channel on 1 in. centers from top of post. Steel tube post (Min. 2.23 lb/ft) may be used in lieu of U-channel posts.  
Post Weight: 2.0 lbs/ft - DELINEATORS and TYPE 2 OBJECT MARKERS  
2.5 lbs/ft - MILEMARKERS and TYPE 3 OBJECT MARKERS  
3.0 lbs/ft - WARNING SIGNS, W1-6, W1-7  
Fasteners shall be either bolts or rivets.

Bolts shall be 5/16 in. diameter electroplated steel hex head bolts with one nylon washer, two flat washers, one lock washer, and one vandal resistant hex nut.

Rivets shall be vandal resistant 1/4 in. diameter aluminum blind rivets with smooth, low profile heads on each end.

### DETAIL FOR MOUNTING SIGN TO U-CHANNEL POST

### MOUNTING DETAILS

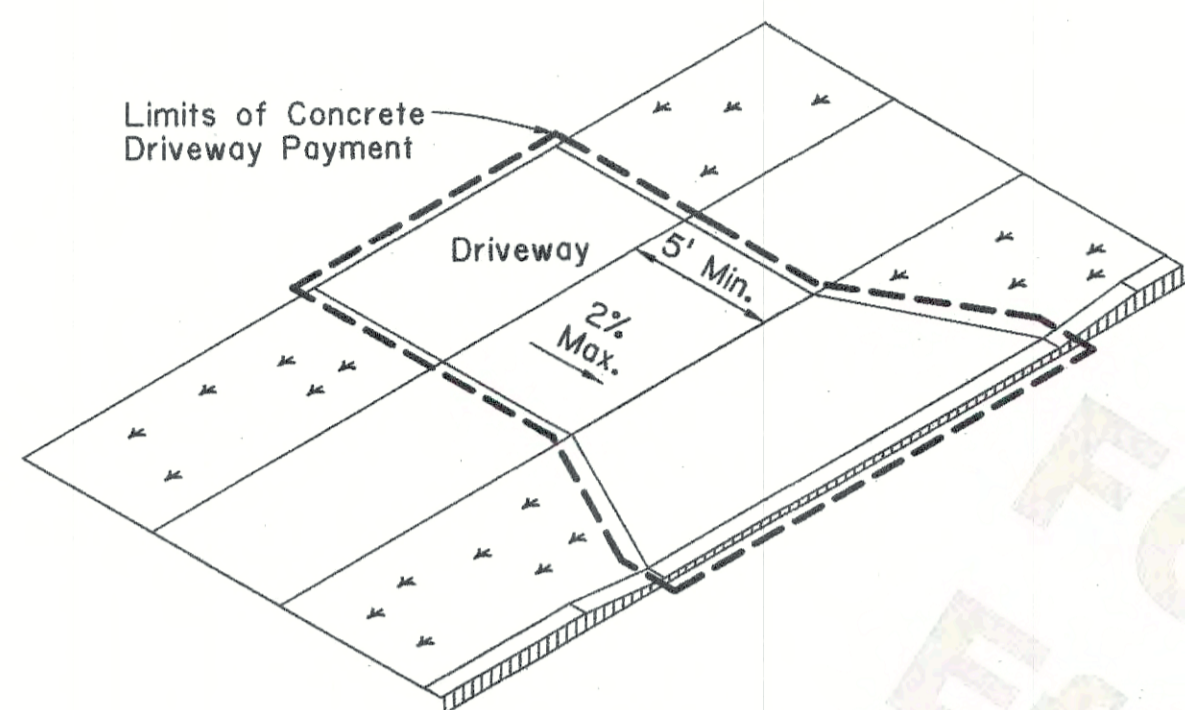


### DETAIL OF END OF ROAD MARKER

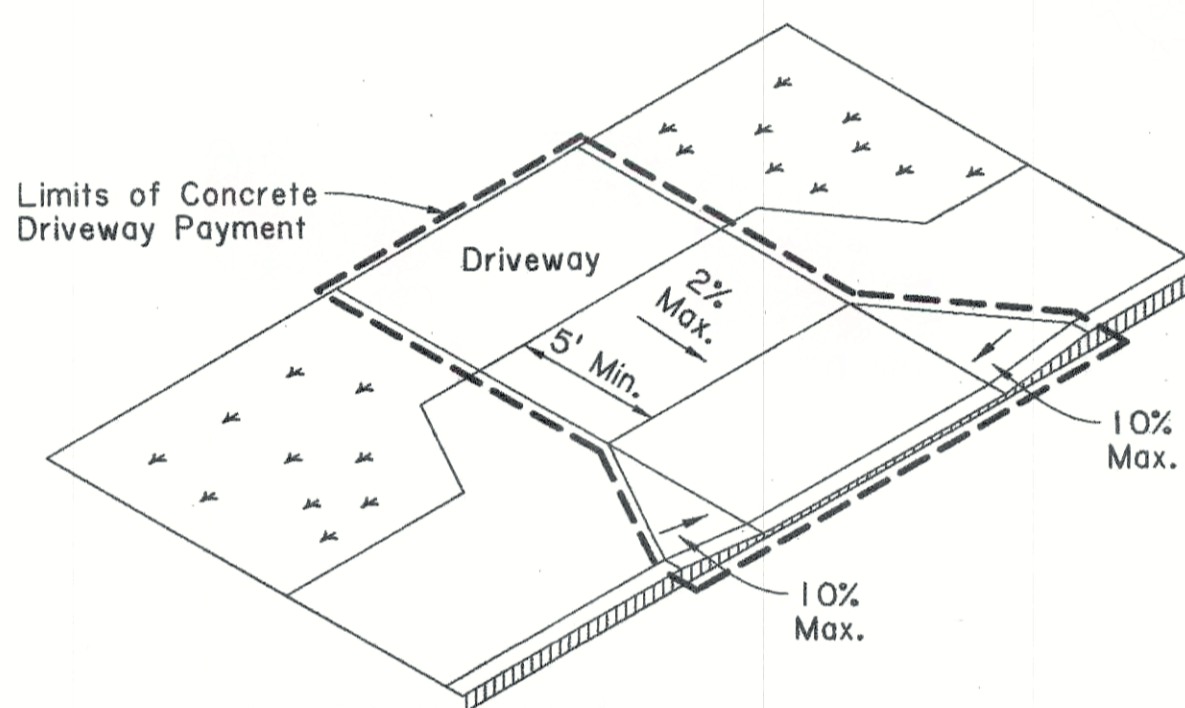
Colors shall be red. The sheeting shall be in accordance with DOTD Standard Specification. The minimum mounting height from the ground line to the bottom of the marker shall be 5 ft. Post penetration in ground shall be a minimum of 3 ft.

SHEET NUMBER	
DESIGNED BY	J. COLVIN
CHECKED BY	P. ALLAIN
DATE	02/13/2013
REVISION DESCRIPTION	
BY	J. Williams
DATE	4-7-2014
CHIEF ENGINEER	
STANDARD PLAN	HS-03
OBJECT MARKERS AND DEAD END ROAD INSTALLATION	
TRAFFIC ENGINEERING	

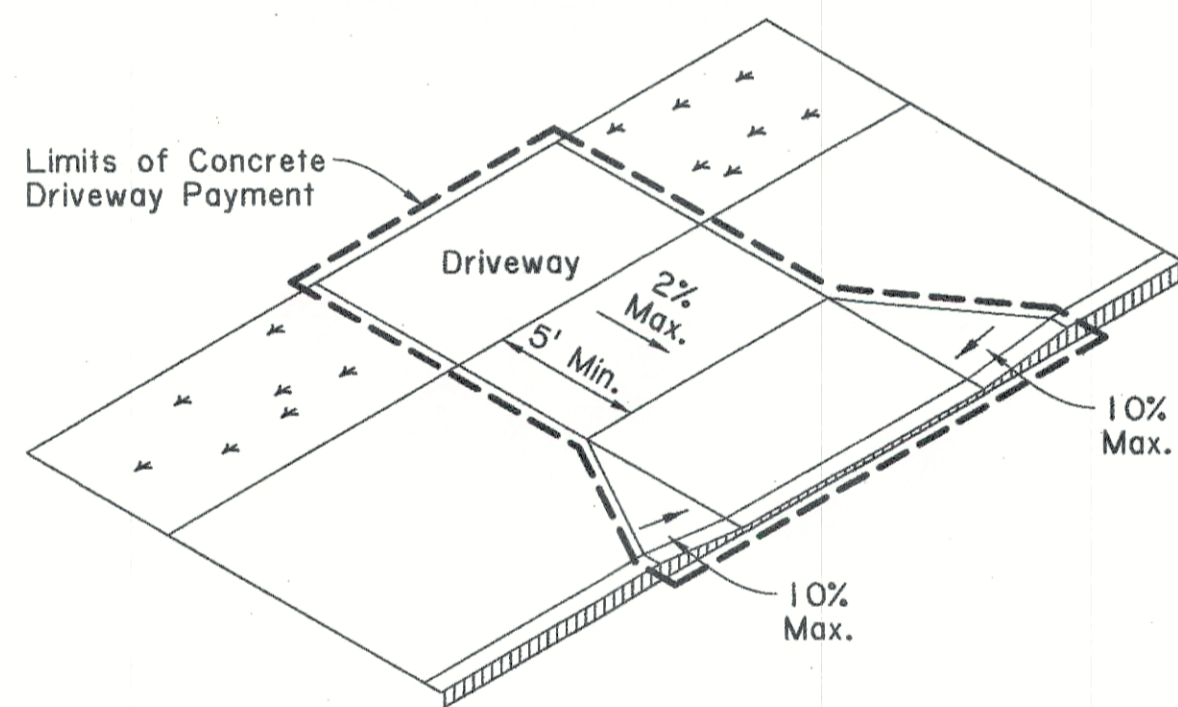




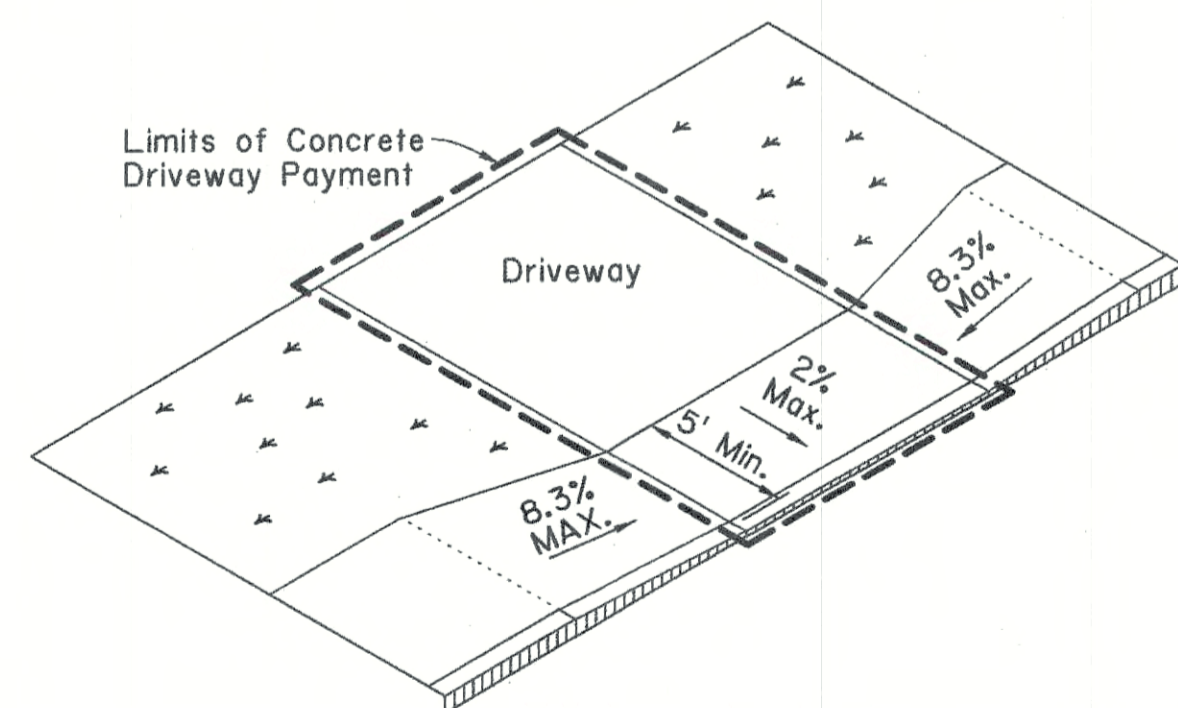
SETBACK SIDEWALK



APRON OFFSET SIDEWALK

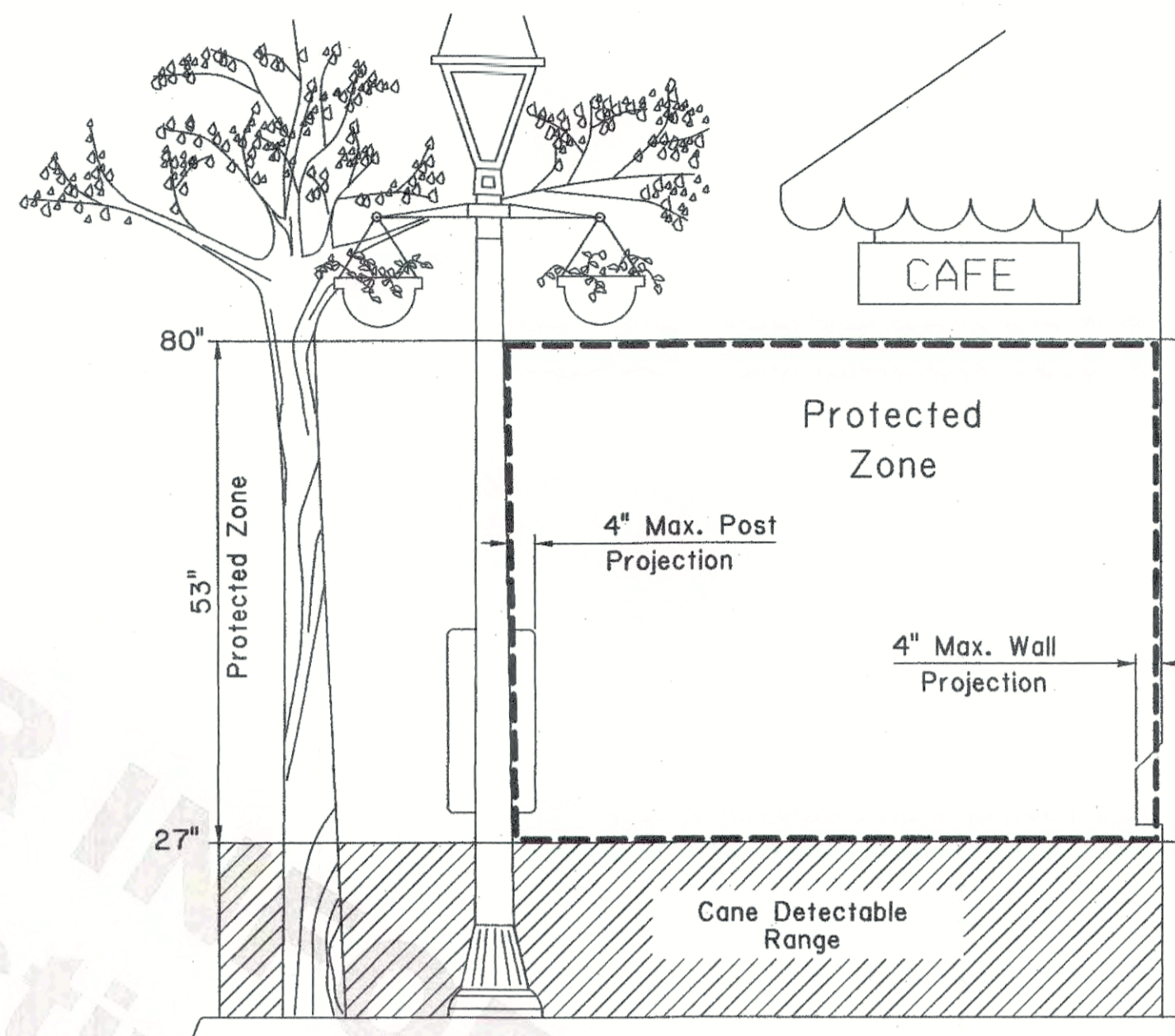


WIDE SIDEWALK



RAMP SIDEWALK

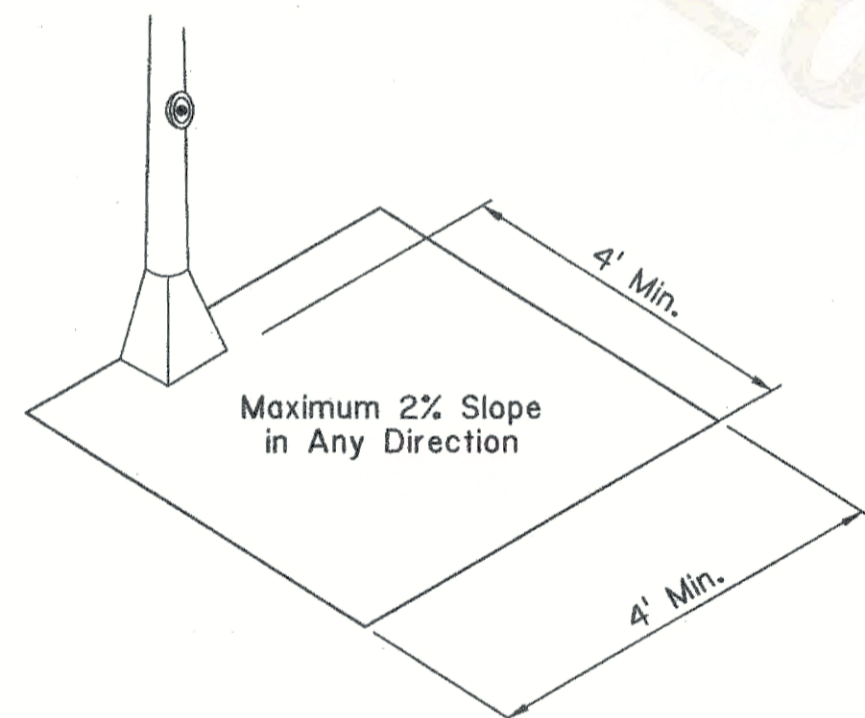
**SIDEWALK TREATMENT AT DRIVEWAYS**  
REFER TO DRIVEWAY STANDARD PLANS FOR FURTHER DETAILS.



PROTECTED ZONE

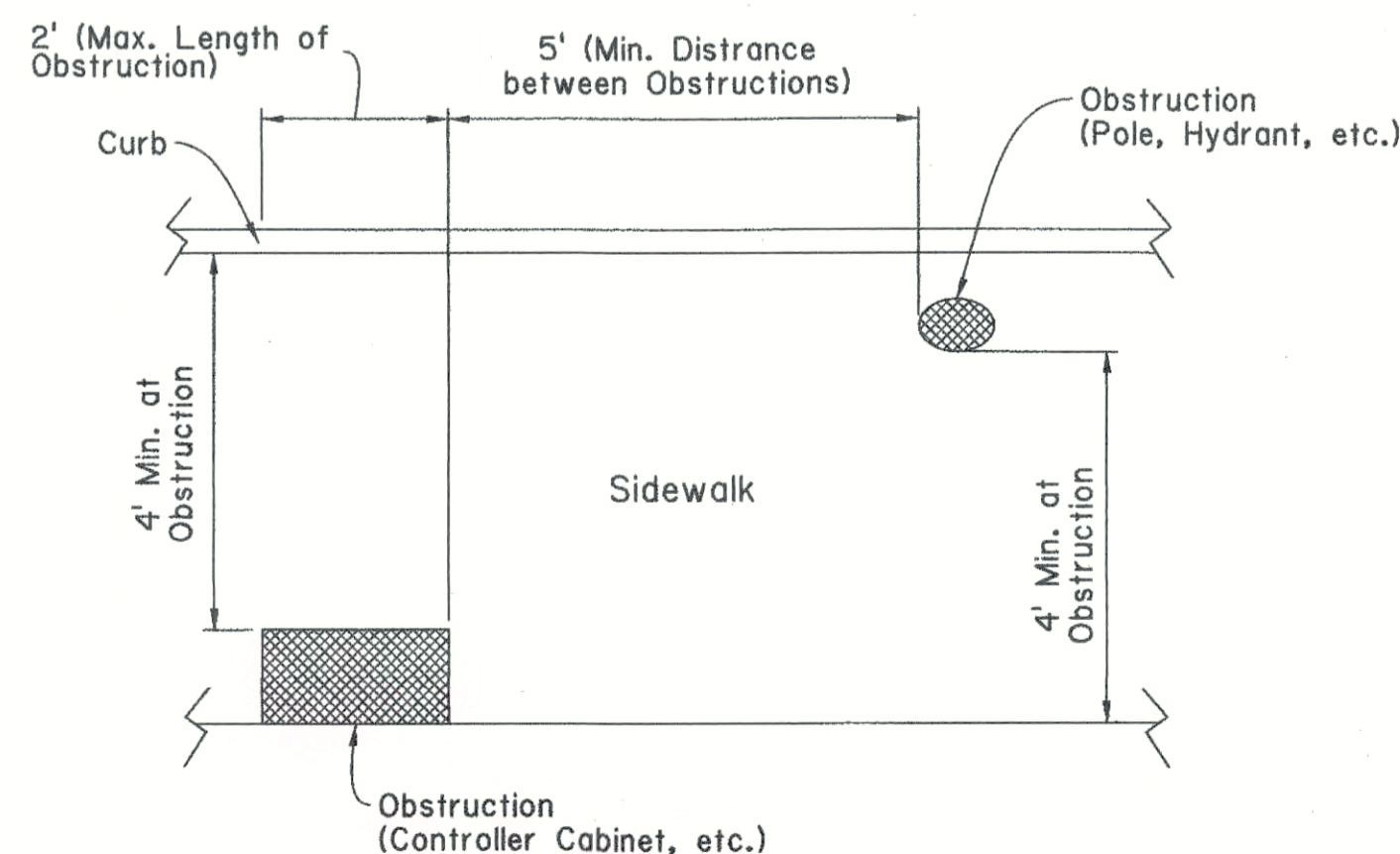
Notes:

- In pedestrian circulation area, maximum 4" projection for post or wall mounted objects between 27" and 80" above the surface.
- When an obstruction of a height greater than 27" from the surface would create a protrusion of more than 4" into the pedestrian circulation area, construct additional curb or foundation at the bottom to provide a maximum 4" overhang.
- Protruding objects of a height less than 27" are detectable by cane and do not require additional treatment.



**CLEAR GROUND SPACE ADJACENT TO PEDESTRIAN PUSH BUTTON**

Minimum 4' x 4' clear space required at public use fixtures.



PLAN VIEW

**PLACEMENT OF OBSTRUCTIONS**  
Items not intended for public use.

**PEDESTRIAN FACILITIES GENERAL NOTES**

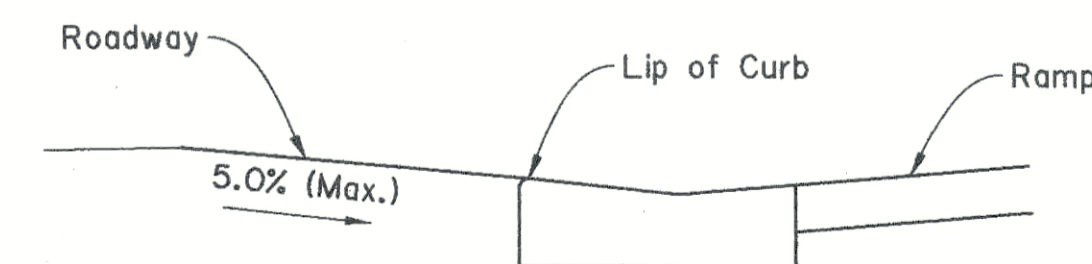
**Handicap Curb Ramps**

- Maximum allowable cross slope of curb ramp surfaces is 2%; desired cross slope is 1.5%.
- The maximum longitudinal slope of a curb ramp shall be 8.33% (1:12). Where existing restricted conditions preclude the installation of a 1:12 ramp slope, a ramp slope between 1:12 and 1:10 is permitted for a maximum rise of 6" or a ramp slope between 1:10 and 1:8 is permitted for a maximum rise of 3".
- Grade breaks at the top and bottom of curb ramp runs shall be perpendicular to the direction of the ramp run.
- Where curb ramps are located adjacent to a walking surface, a flare must be provided; otherwise a curb may be provided. For an example, refer to curb ramp Type 2 on sheet 2.
- The landing dimensions are 5'x5' with a maximum 2% slope in any direction. The landing clear width shall be at least as wide as the widest ramp run leading to the landing.
- Small raised channelization islands, which cannot provide a minimum 5'x5' landing at the top of ramps, shall be cut through level with the surface of the street.
- Raised medians should be a minimum of 6' wide in the direction of pedestrian travel to serve as a pedestrian refuge area. Medians with pedestrian access routes through them shall be designed in accordance with Draft PROWAG.
- Maneuvering space at the bottom of curb ramps shall be a minimum of 4'x4' completely contained within the crosswalk and completely outside the parallel vehicle travel lane.
- It is desirable to provide a no-parking zone 50' from crosswalks on each intersection approach or provide a curb extension.
- Drainage structures should be located on the upstream side of the ramp and located to prevent ponding near the curb ramp. Drainage structures should be placed outside the crosswalk.
- Slopes of adjoining gutters and roadway surfaces immediately adjacent to the curb ramp shall not exceed 5%. Refer to the Transition from the Curb Ramp to Roadway Detail on sheet 1.
- Curb ramps should be aligned with the direction of pedestrian travel on the crosswalk or theoretical crosswalk. Refer to sheet 4 for typical crossing layouts and refer to the pavement marking standard plans for crosswalk markings.
- Crosswalk markings shall be placed a distance of 24" from the flare on each side of a diagonal curb ramp. Refer to sheet 4 for an example.
- Handicap curb ramps shall include detectable warning surfaces. Refer to sheet 5 for details of detectable warning surfaces.
- Where a handicap curb ramp is constructed within existing curb, curb and gutter and/or sidewalk, the existing curb or curb and gutter shall be removed to the nearest joint beyond the curb transition or the extent that no remaining section of curb or curb and gutter is less than 5' long or as directed by the Project Engineer. Existing sidewalks shall be removed to the nearest joint beyond the flare slope or to the extent that no remaining section of sidewalk is less than 5' long or as directed by the Project Engineer.

**Sidewalks**

- Where a 5' sidewalk cannot be provided due to site constraints, 5'x5' passing areas at intervals not to exceed 200' are required.
- Where sidewalks and crosswalks are contained within street or highway right-of-way, the grade of the sidewalk or crosswalk shall not exceed the grade of the adjacent street or highway. Where sidewalks are not contained within a street or highway right-of-way, the grade of the sidewalk shall be 5% maximum.
- Maximum allowable cross slope of sidewalk surfaces is 2%; desired cross slope is 1.5%.
- Vertical surface discontinuities along a sidewalk shall be 1/2" maximum. Discontinuities between 1/4" and 1/2" shall be beveled at a 1:2 maximum slope.
- Where sidewalks intersect with streets, detectable warning surfaces are required. Refer to sheet 5 for details of detectable warning surfaces.
- Traffic signal or illumination poles, ground boxes, controller boxes, signs, drainage facilities and other items shall be placed so as not to obstruct the accessible route.
- Where an existing driveway is in good condition and meets slope requirements, construct only as much as required for satisfactory connection with new work. When a sidewalk crosses a driveway and exceeds the 2% maximum cross slope, the driveway or driveway portion shall be reconstructed to meet the 2% maximum cross slope requirement. Refer to driveway standard plans for driveway details.
- Handrails are not required on sidewalks unless site specific conditions dictate. Where handrails are provided, they must comply with ADAAG 505.
- To prevent tracking of gravel onto the sidewalk, gravel driveways should be paved from the roadway edge to a point 10' behind the sidewalk or to the right-of-way, whichever is less.

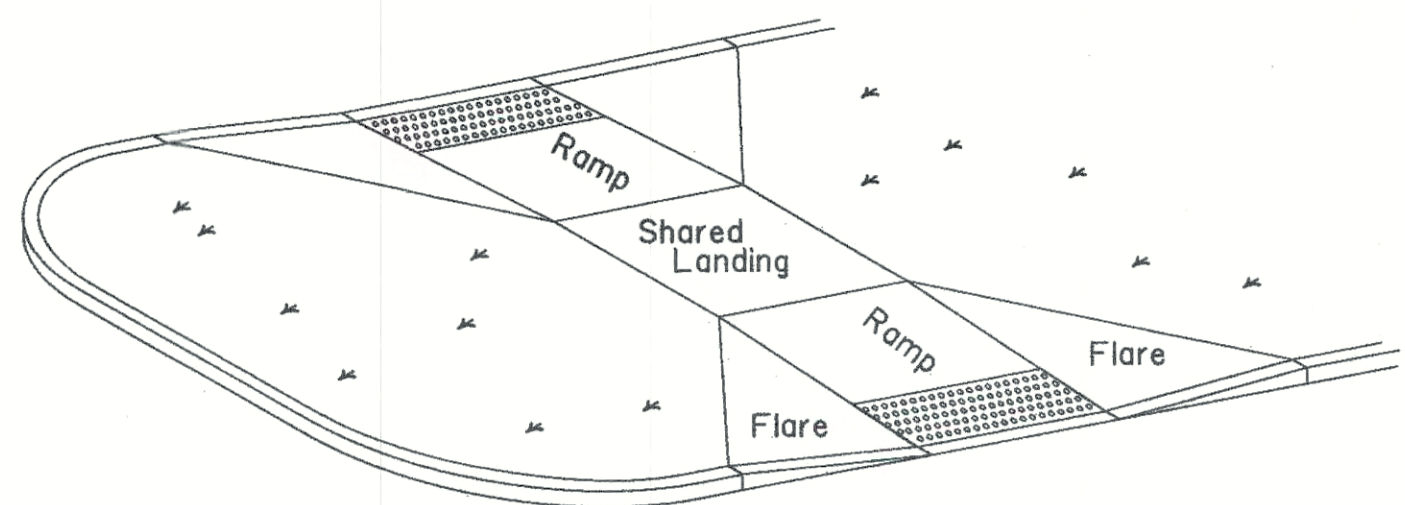
ADA - Americans with Disabilities Act  
ADAAG - Americans with Disabilities Act Accessibility Guidelines  
Draft PROWAG - Draft Public Rights-of-Way Accessibility Guidelines



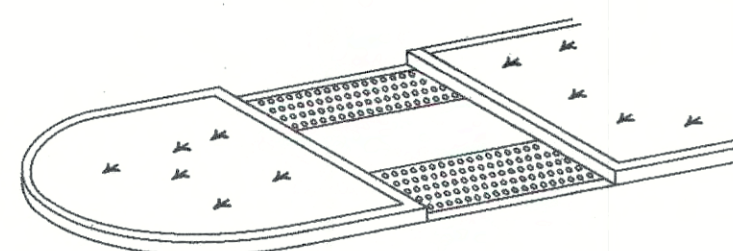
TRANSITION FROM CURB RAMP TO ROADWAY

SHEET NUMBER		PARISH		CONTROL SECTION		STATE PROJECT	
DESIGN	CHECK	MAL	BPW	DETAIL	CHECK	REVIEW	SERIES
MELISSA LEBAS License No. 39111 PROFESSIONAL ENGINEER IN CIVIL ENGINEERING		Melissa Lebas 6/12/19		APPROVED BY CHIEF ENGINEER: <i>[Signature]</i>		DATE: 6/13/19	
PEDESTRIAN FACILITIES GENERAL NOTES AND MISC. DETAILS		PEDESTRIAN FACILITIES GENERAL NOTES AND MISC. DETAILS		PEDESTRIAN FACILITIES GENERAL NOTES AND MISC. DETAILS		PEDESTRIAN FACILITIES GENERAL NOTES AND MISC. DETAILS	
DOTD LOUISIANA DEPARTMENT OF TRANSPORTATION & DEVELOPMENT		ROAD DESIGN		ROAD DESIGN		ROAD DESIGN	

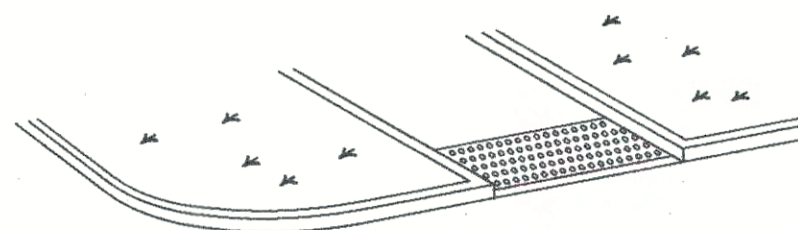




ISOMETRIC VIEW



ISOMETRIC VIEW



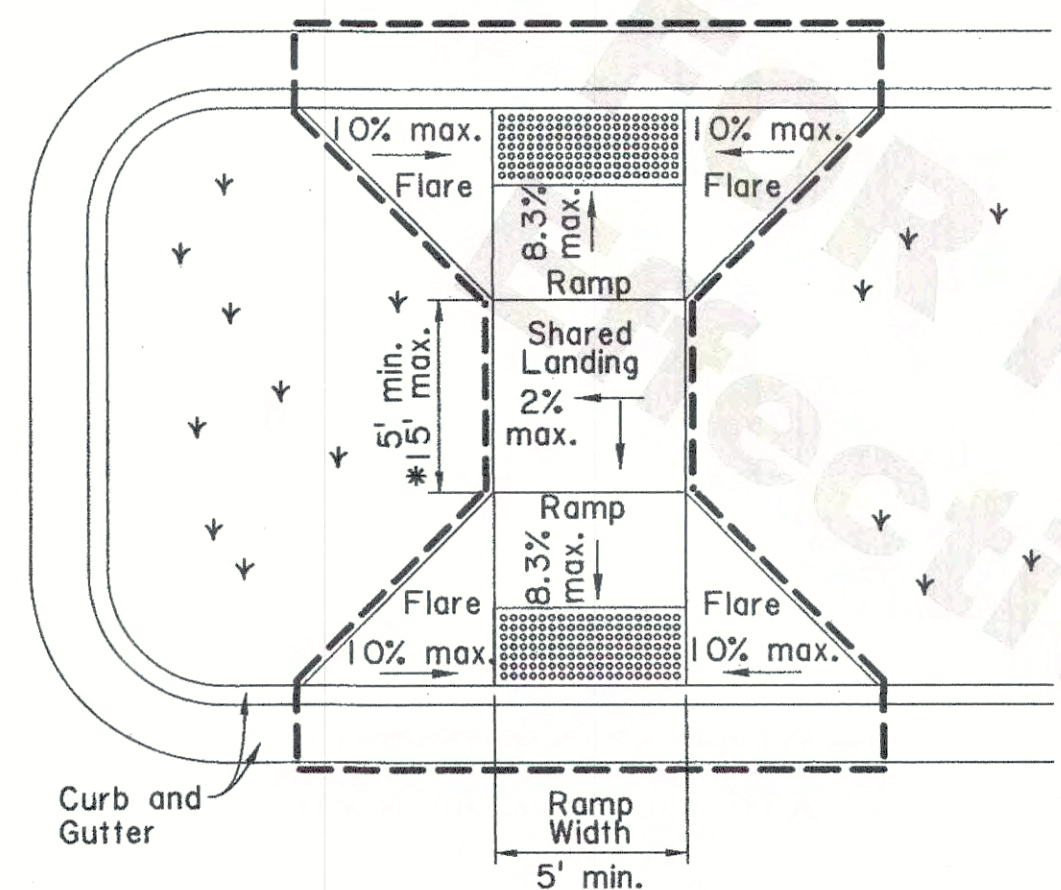
ISOMETRIC VIEW

**LEGEND OF PATTERNS**

- Denotes Non-Walking Surface Not Part of Pedestrian Path
- Detectable Warning Surface
- Limits of Payment
- Non-ADA Compliant Walking Surface
- Slope

All slopes shown are maximum allowable. The least possible slope that will drain properly should be used.

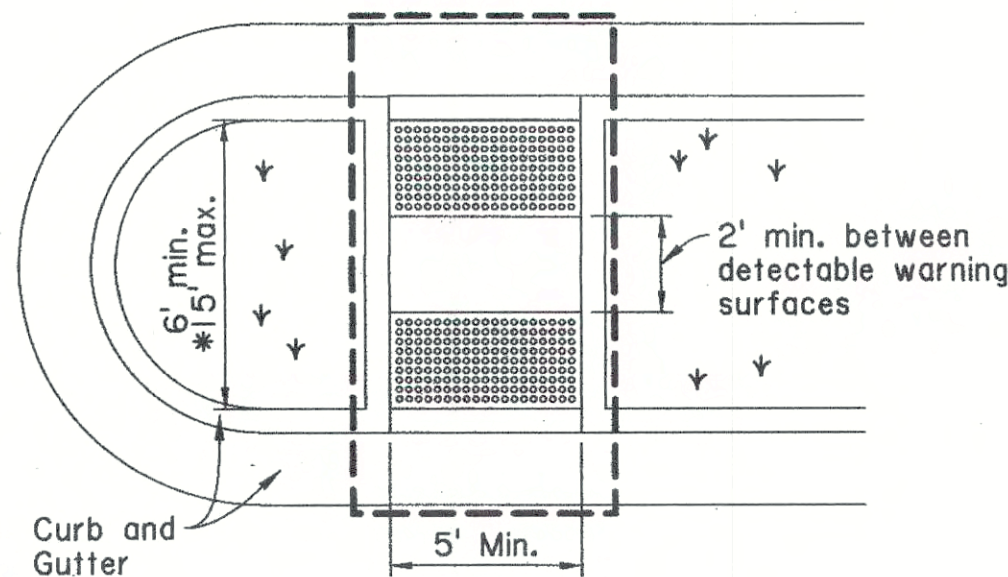
Curb ramps shall be placed and designed where ponding does not occur at the bottom or on the curb ramp.



PLAN VIEW

**TYPE 9  
RAISED MEDIAN RAMP**

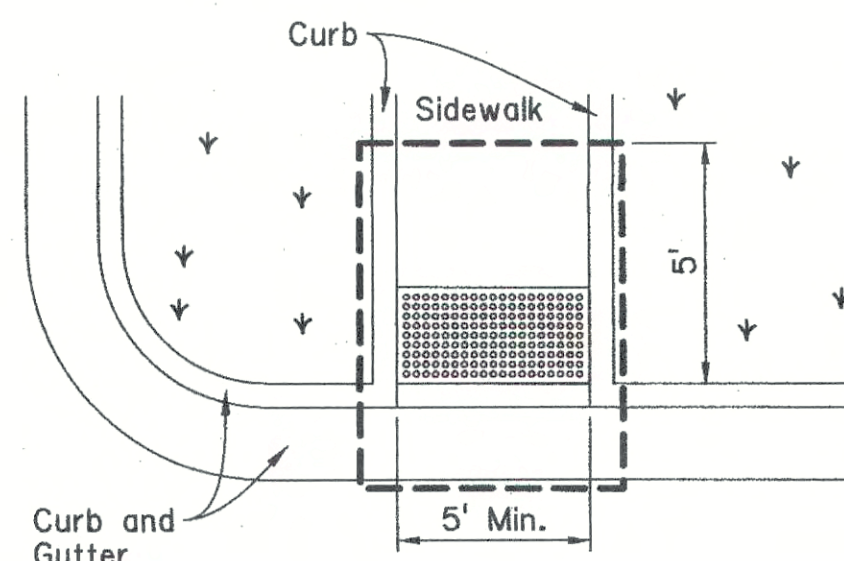
\* For raised medians with landings greater than 15', place 2 handicap curb ramps on each side of the median with a concrete walk inbetween.



PLAN VIEW

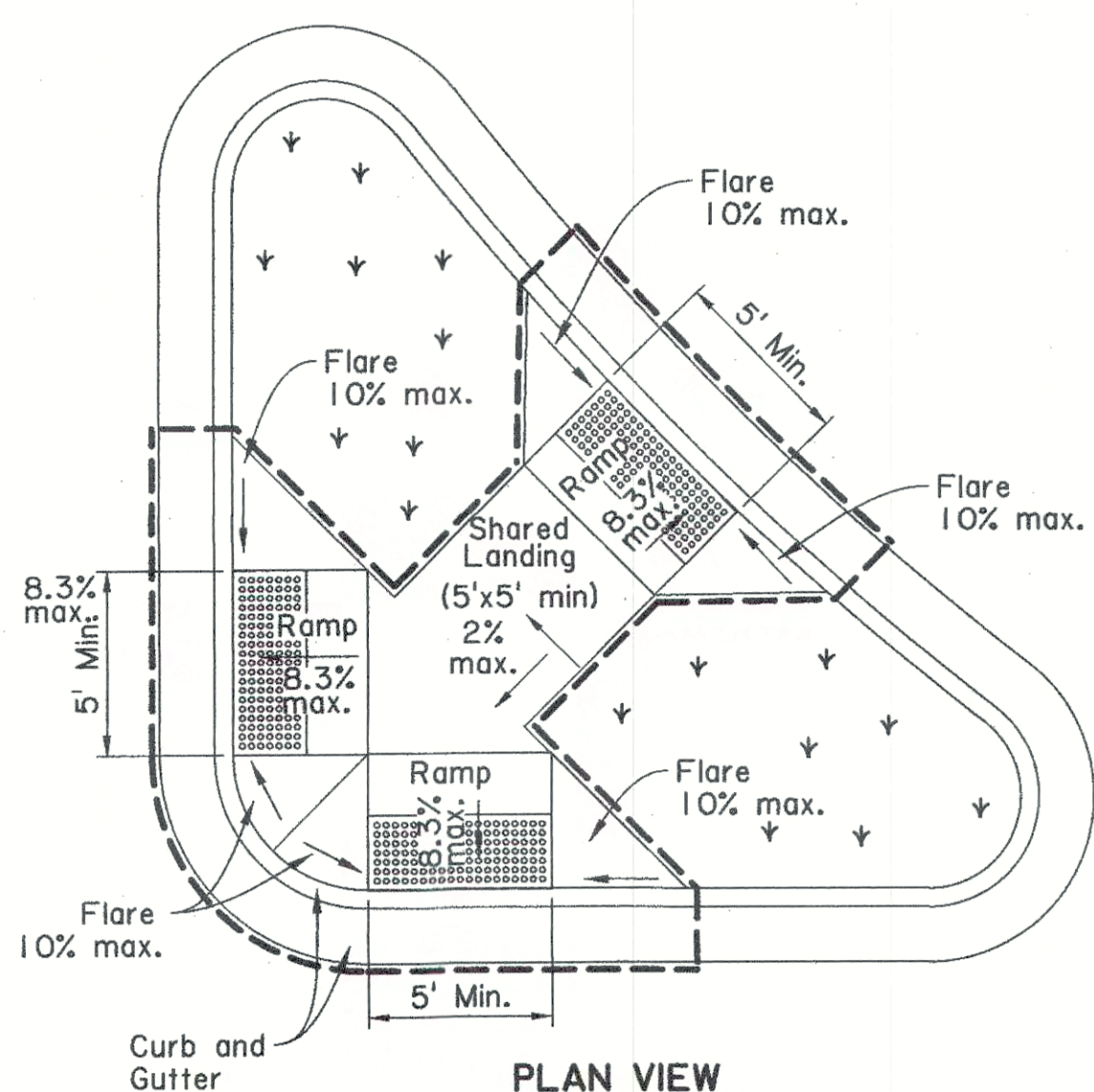
**TYPE 10  
CUT THROUGH MEDIAN RAMP**

\* For cut through medians greater than 15', place 2 handicap curb ramps on each side of the median with concrete walk and curb inbetween.



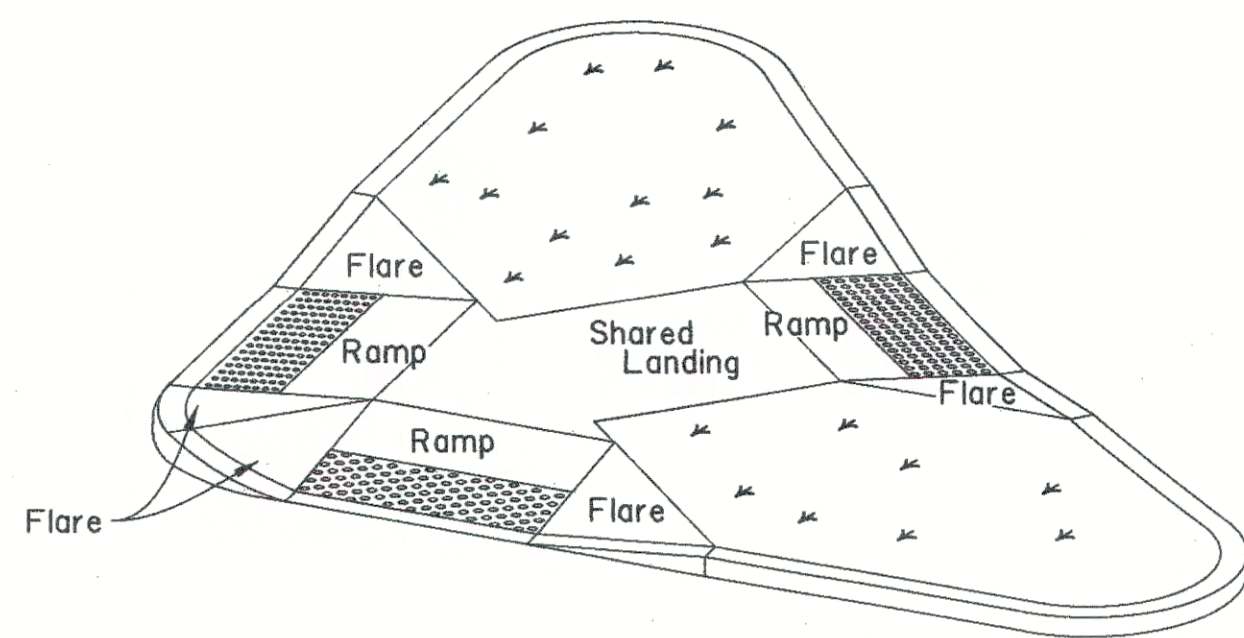
PLAN VIEW

**TYPE 11  
CUT THROUGH MEDIAN RAMP**

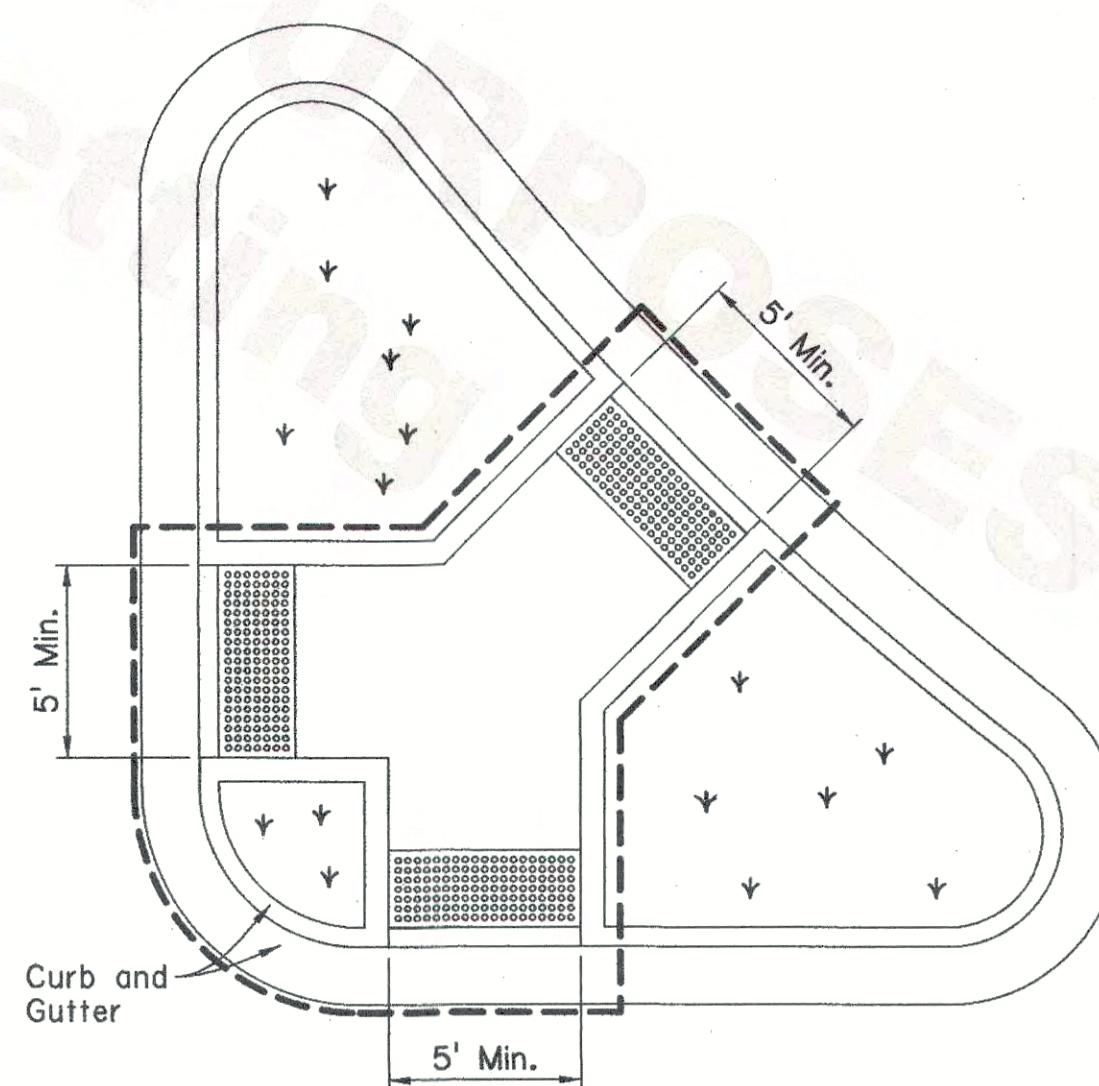


PLAN VIEW

**TYPE 12  
RAISED ISLAND RAMP**

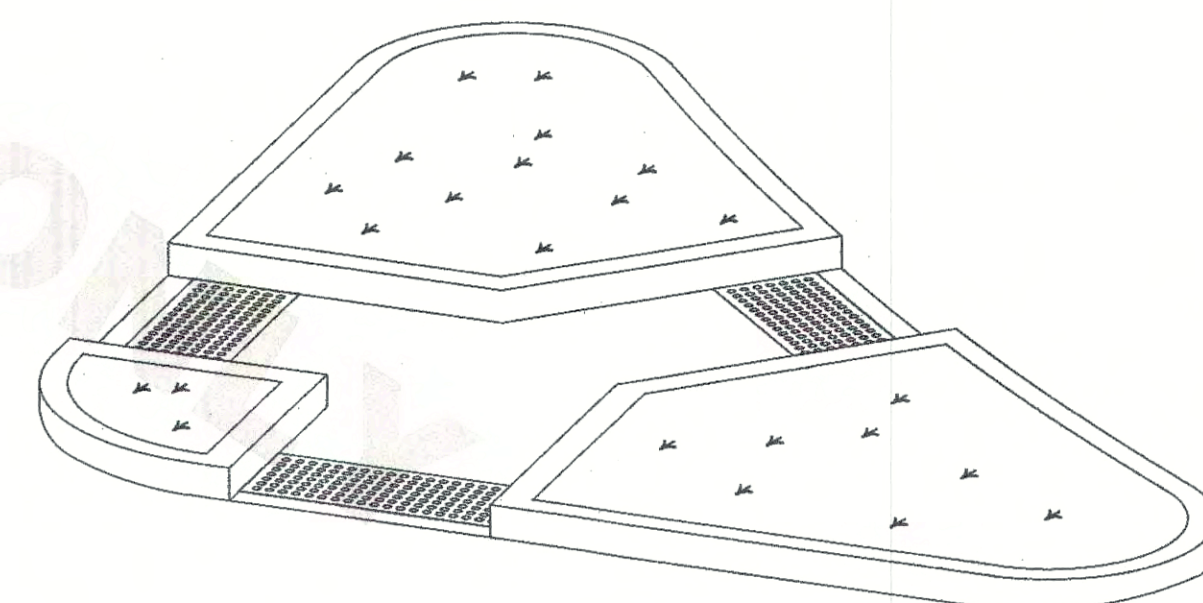


ISOMETRIC VIEW



PLAN VIEW

**TYPE 13  
CUT THROUGH ISLAND RAMP**

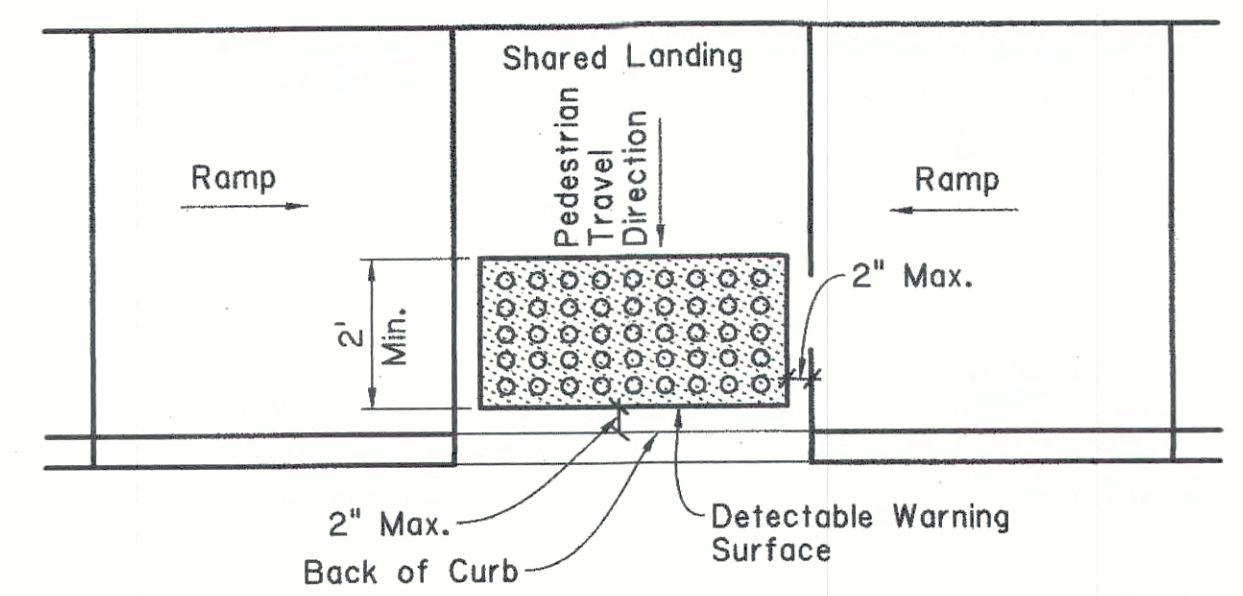


ISOMETRIC VIEW

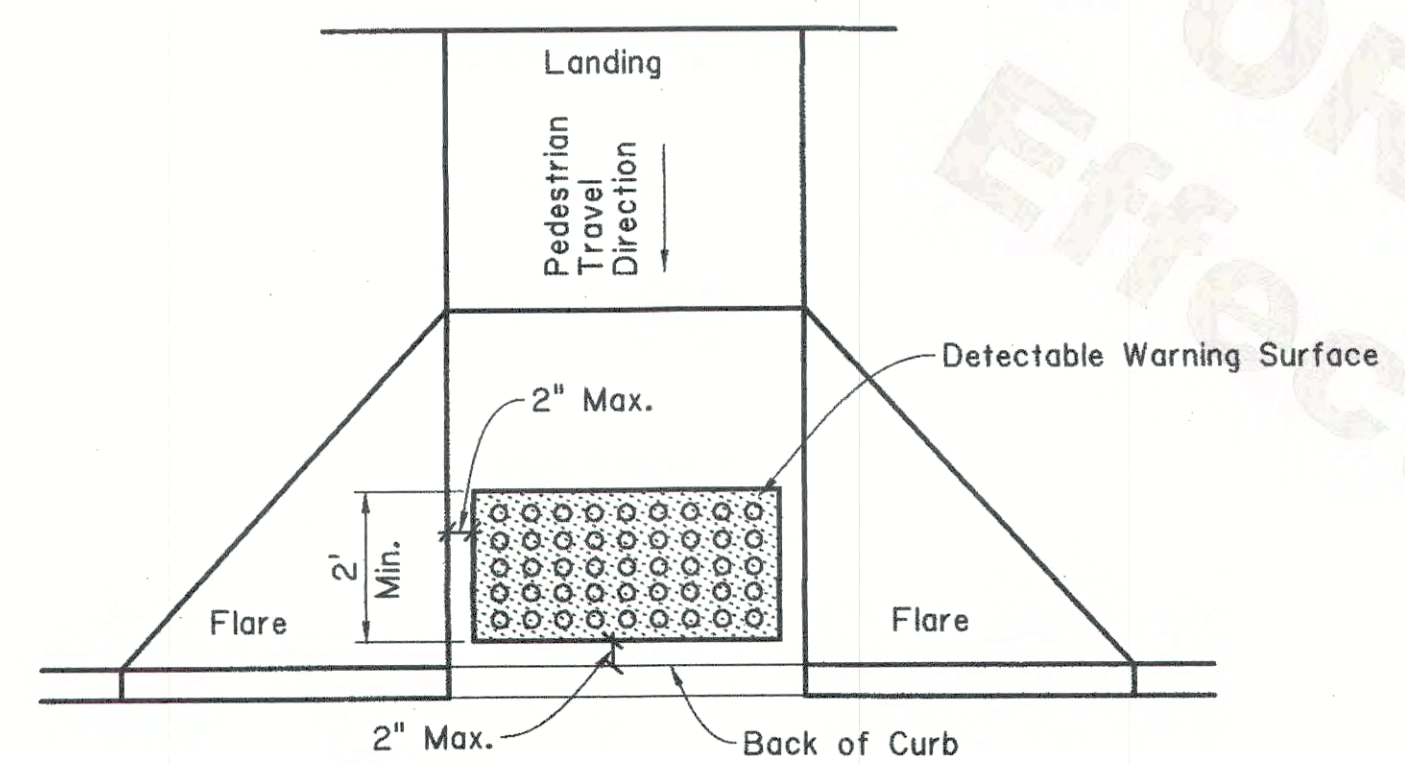
MEDIAN AND ISLAND RAMPS

SHEET NUMBER		PARISH		CONTROL SECTION		STATE PROJECT	
DESIGN	MAL	BPW	MAL	BPW	REVIEW	SERIES # 3 of 6	
CHECK			CHECK				
APPROVED BY CHIEF ENGINEER: <i>Melissa Lebas</i> DATE: 6/13/19							
<b>PEDESTRIAN FACILITIES CURB RAMPS AND DETECTABLE WARNING LOCATION</b>							
ROAD DESIGN							

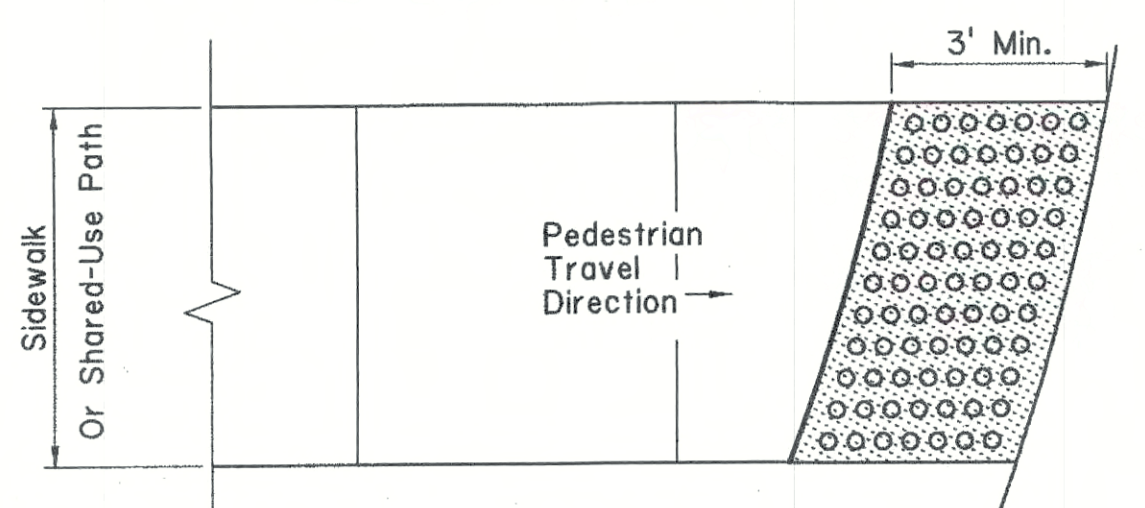




PARALLEL CURB RAMP

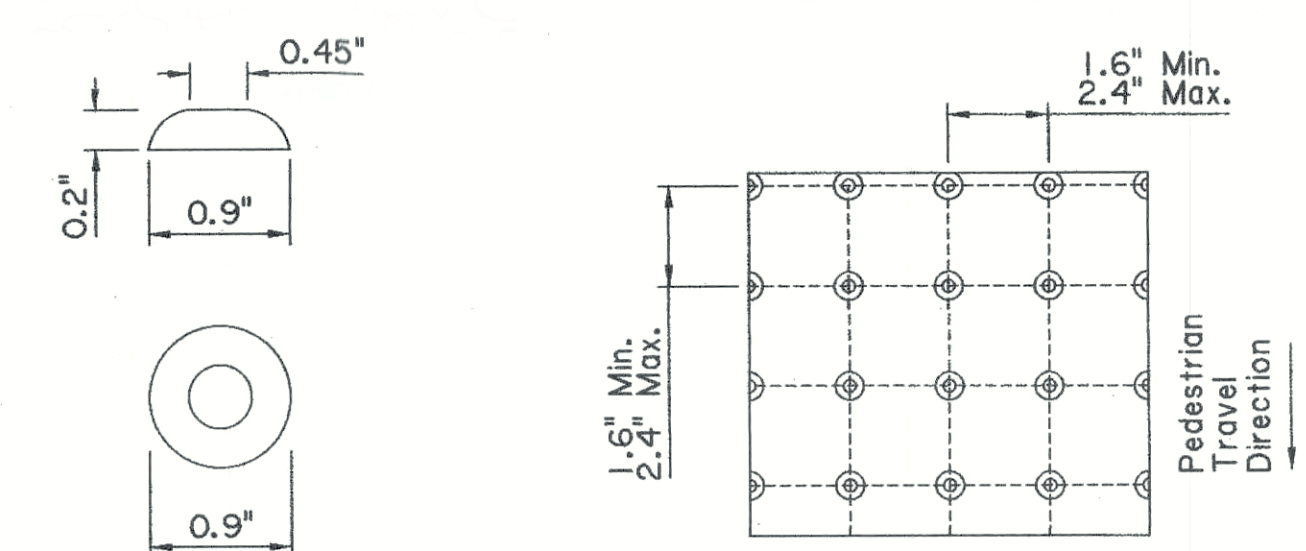


PERPENDICULAR CURB RAMP



AT-GRADE SIDEWALK OR SHARED-USE PATH

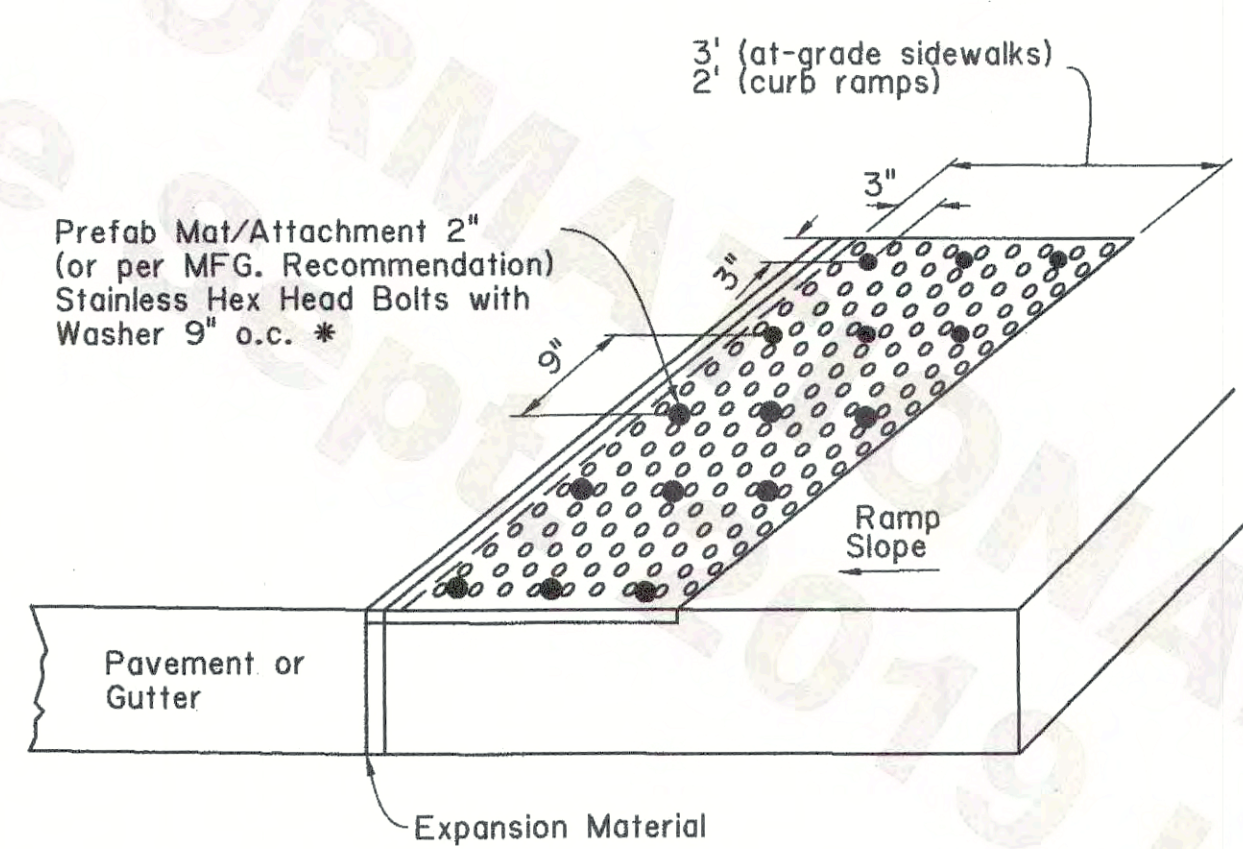
TYPICAL PLACEMENT OF DETECTABLE WARNING SURFACE



TRUNCATED DOME TRUNCATED DOME SPACING

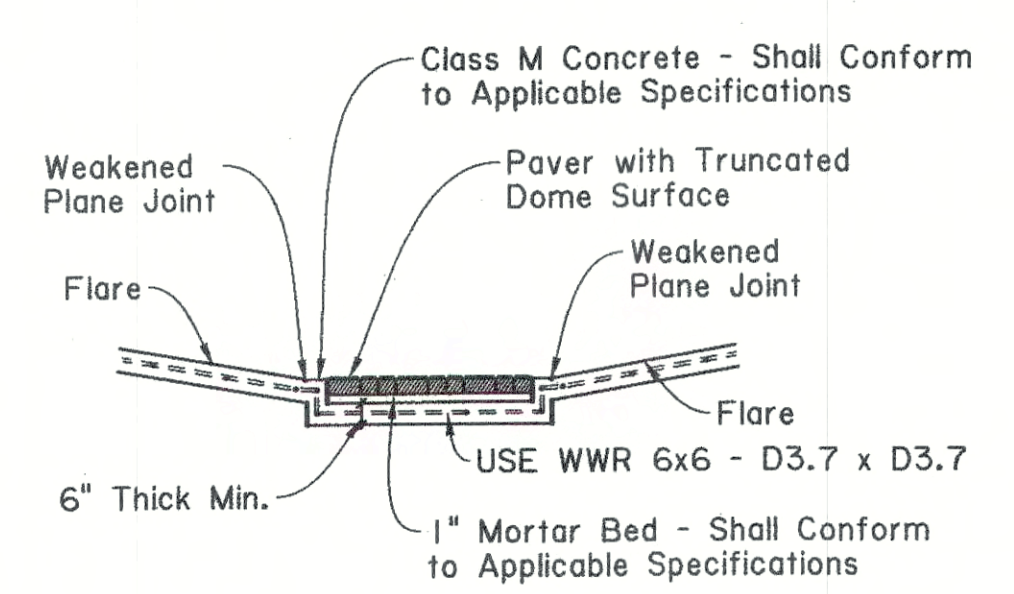
Notes:  
Place truncated domes detectable warning texture in the lower 2' of throat of ramp only and a 3' wide pattern at "at-grade" sidewalk intersections with roadways. Domes shall be arranged in a square in-line pattern or radial pattern.  
Color Fastness: Paver's composite coloring and ultra-violet stabilization must be homogeneous and throughout the product. No painted surfaces will be allowed.

TRUNCATED DOME DETAILS

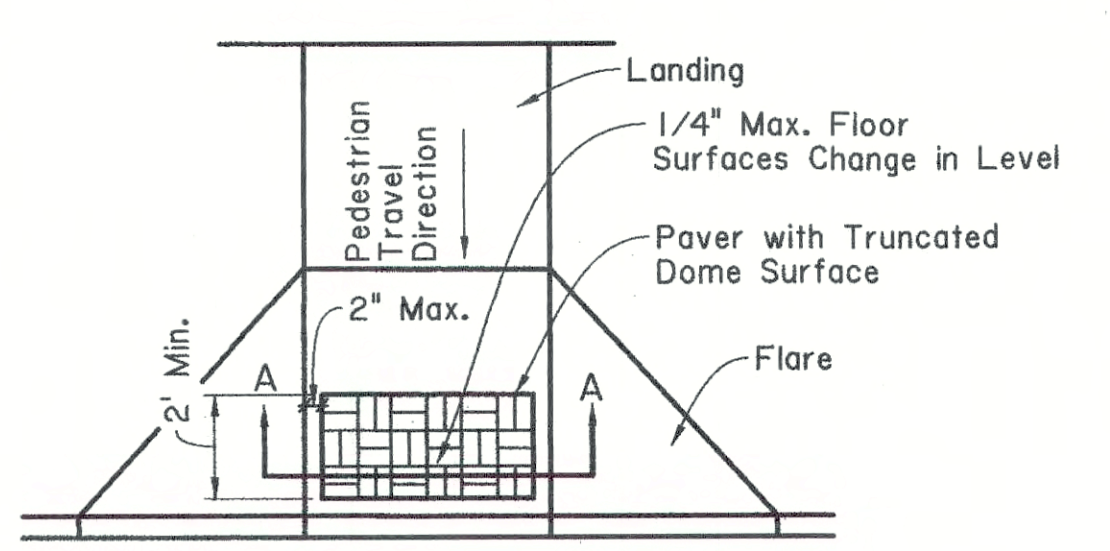


\*Note: Retrofit application placed on top of existing ramp with drilled and epoxied bolts. Epoxy full surface area per manufacturer's recommendations.

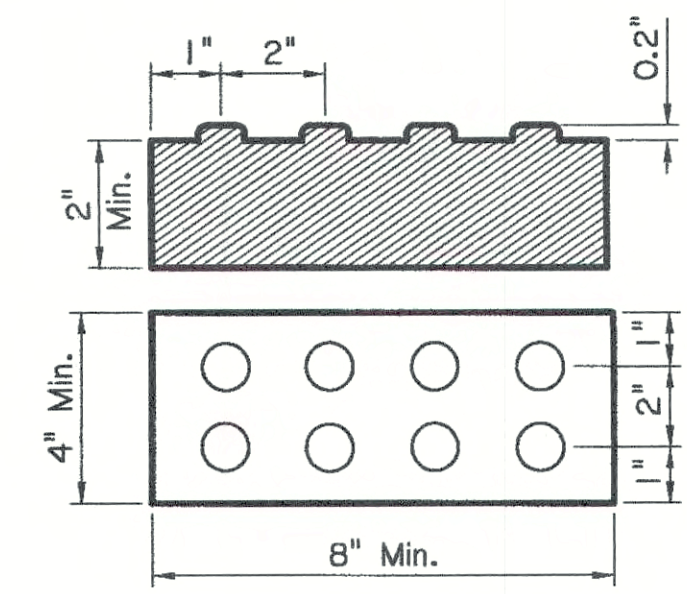
PREFABRICATED MAT OPTION (INLAID)



SECTION A-A



TRUNCATED DOME PATTERN CURB RAMP



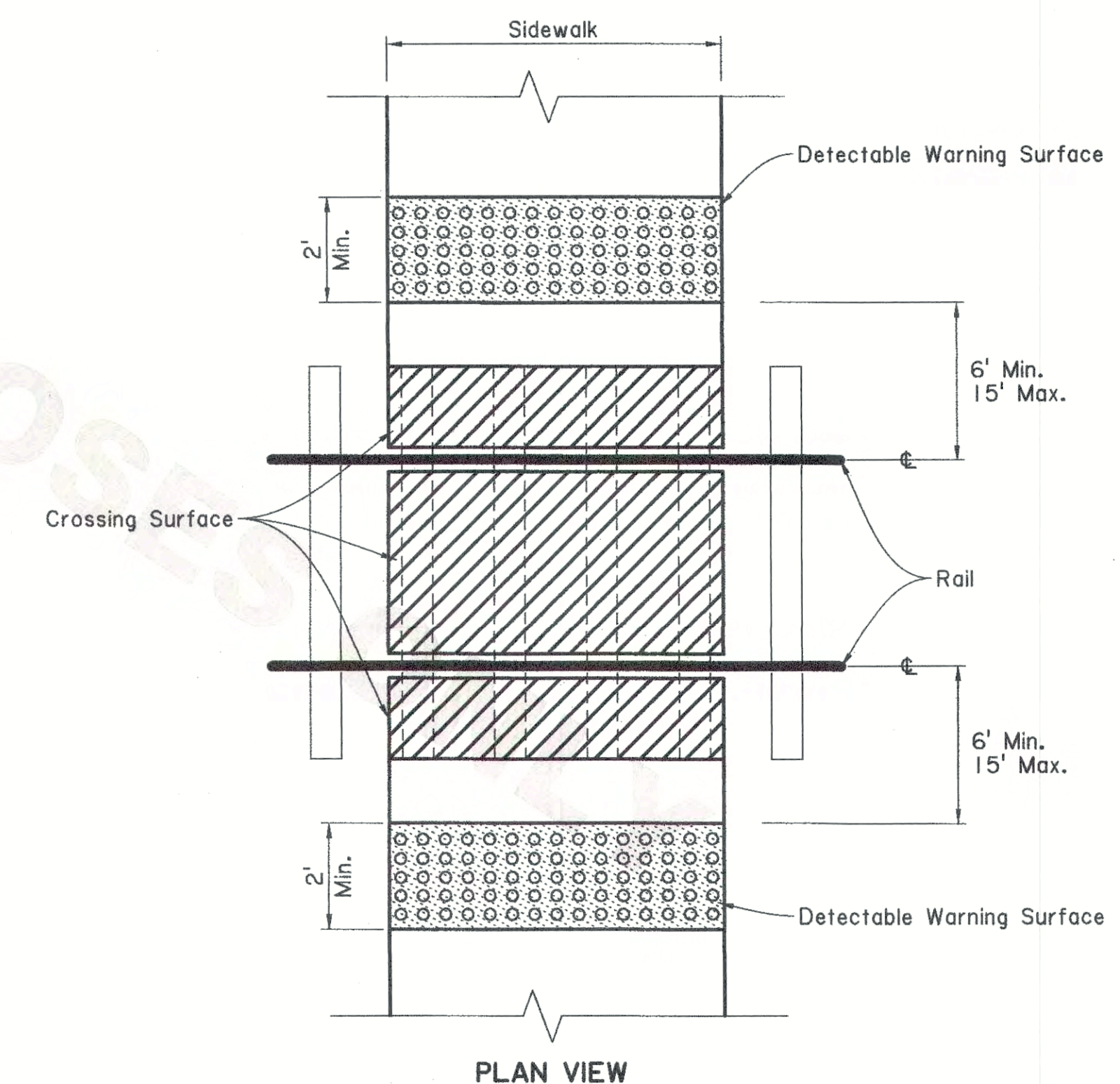
PAVER WITH TRUNCATED DOME SURFACE

Notes: Paver units shall meet all requirements of the applicable ASTM Standards. Layout pattern shall be appropriate for size of paver used. 4"x8" pavers shall be laid out in a 2x2 basket weave pattern. 12"x12" pavers shall be laid out in a block pattern. Paver units shall be saw cut only and any cut unit shall not be less than 25 percent of a full unit. Installation should meet compliance with Draft PROWAG R302.7.2 (Vertical Surface Discontinuities). Vertical surface discontinuities shall be 1/2" maximum. Discontinuities between 1/4" and 1/2" shall be beveled at a 1:2 maximum slope.

DETECTABLE WARNINGS PAVER OPTION

DETECTABLE WARNINGS GENERAL NOTES:

- For ADA compliance, detectable warning surfaces must be provided on all pedestrian curb ramps, medians and pedestrian refuge islands (width 6' or greater), railroad crossings and at-grade sidewalk and shared-use paths intersecting with roadways.
- Curb ramps must contain a detectable warning surface that consists of raised truncated domes complying with ADA guidelines. The surface must contrast visually with adjoining surfaces, including side flares, in accordance with Section 706 of the Standard Specifications. Color for detectable warning surface shall contrast visually with adjoining surfaces, either light-on-dark, or dark-on-light.
- Detectable warning surfaces must be slip resistant and not allow water to accumulate.
- Truncated domes should be aligned perpendicular or radial to the grade break between the curb ramp or at-grade sidewalk and the street.
- Detectable warning surfaces shall be a minimum of 24" in depth in the direction of pedestrian travel and extend the full width of the ramp run or landing where the pedestrian access route enters the street. Some detectable warning products may require a concrete border. The concrete border should not exceed 2'.
- Detectable warning surfaces shall be placed at the back of curb or no greater than 5' from the back of curb. Detectable warning surfaces may be curved along the corner radius. Refer to sheets 2 and 3 for typical placement of detectable warning surfaces.
- Detectable warning surfaces (truncated domes) may be stamped, constructed of brick pavers or inlaid prefabricated mats attached by epoxy adhesive and mechanical attachment.
- Any retrofit application of detectable warning surfaces must have beveled edges. The beveled edge shall not exceed a slope greater than 1:2.



LOCATION OF DETECTABLE WARNING SURFACE AT RAILROAD CROSSINGS

Note: Rows of truncated domes should be aligned parallel with the direction of wheelchair travel.

SHEET NUMBER		PARISH		CONTROL SECTION		STATE PROJECT	
DESIGN	MAL	BPW	DESIGN	MAL	BPW	REVIEW	SERIES # 5 of 6
CHECK			DETAIL			CHECK	

APPROVED BY CHIEF ENGINEER: *Melissa Lebas* DATE: 6/13/19

STATE OF LOUISIANA  
MELISSA LEBAS  
License No. 39111  
PROFESSIONAL ENGINEER  
IN  
CIVIL ENGINEERING

PEDESTRIAN FACILITIES  
DETECTABLE WARNING SURFACES  
PED-01

DOTD  
LOUISIANA DEPARTMENT OF TRANSPORTATION & DEVELOPMENT  
ROAD DESIGN

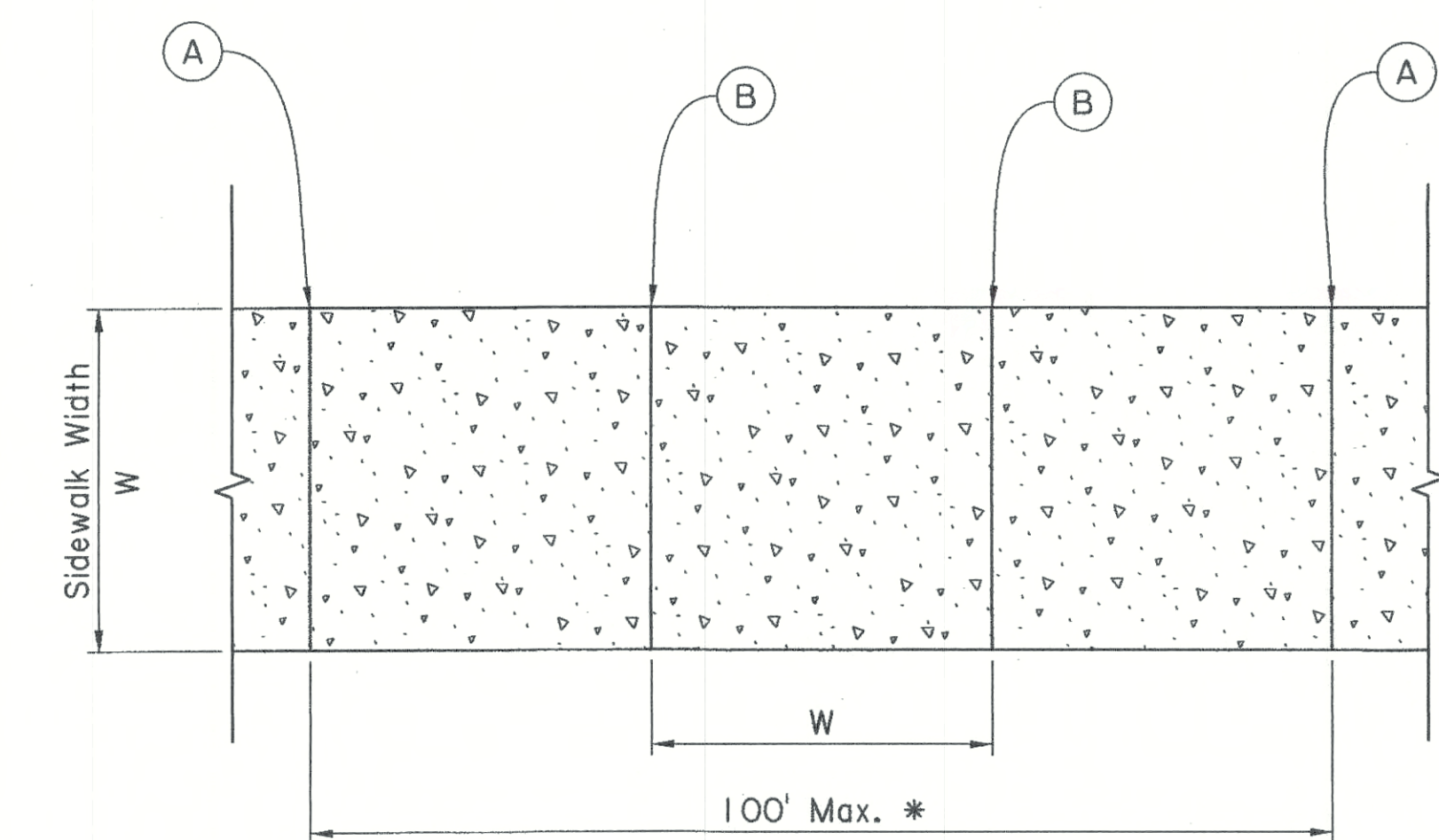
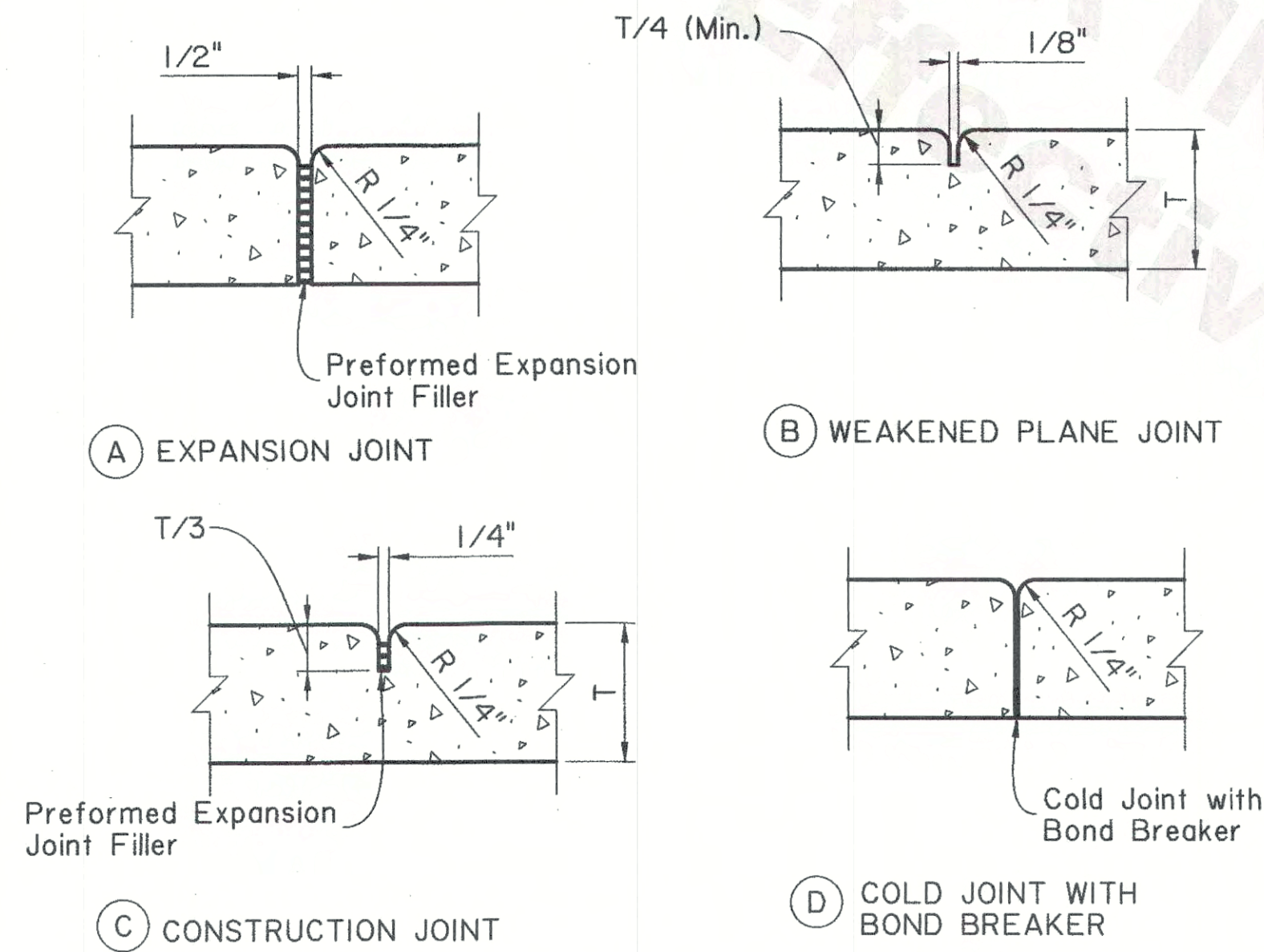


**GENERAL NOTES:**

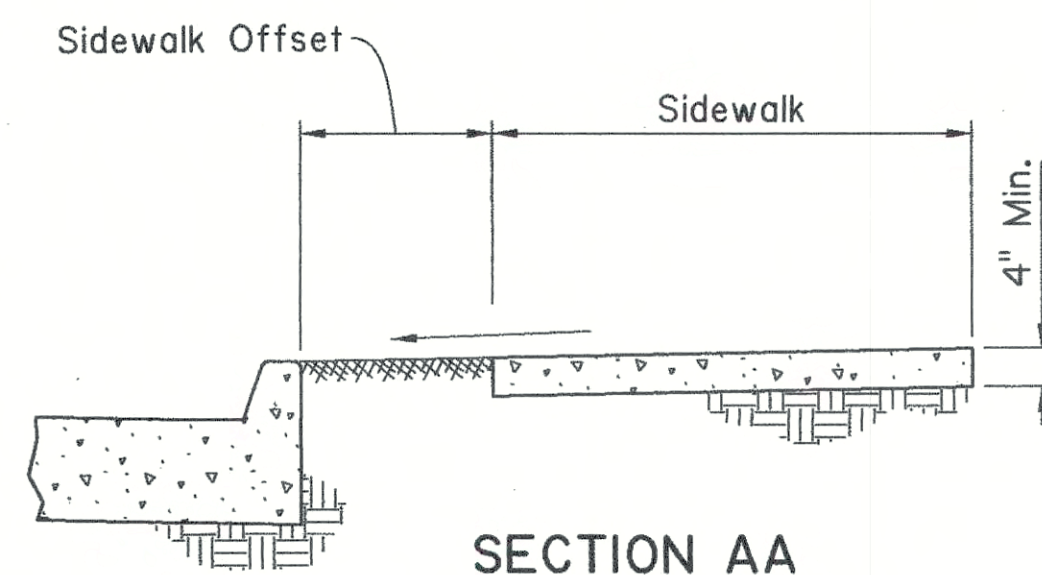
1. Weakened plane joints are required at all sidewalk ramps or driveways slope break lines.
2. Separate curb ramps and landings from adjacent sidewalk with preformed joint filler of 1/2".

**JOINT LEGEND**

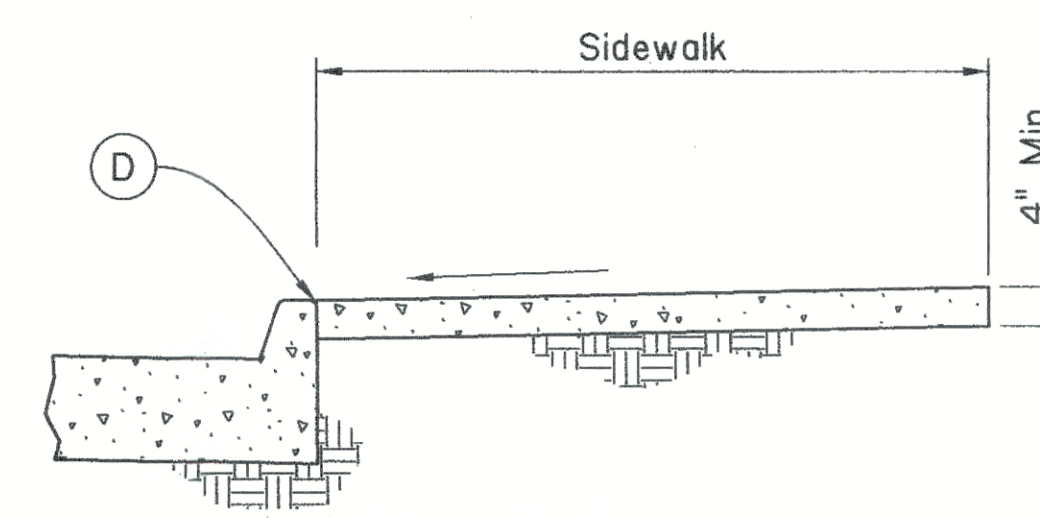
- (A) 1/2" Expansion Joints (Preformed Joint Filler)
- (B) 1/8" Weakened Plane Joint
- (C) Construction Joint
- (D) Cold Joint with Bond Breaker



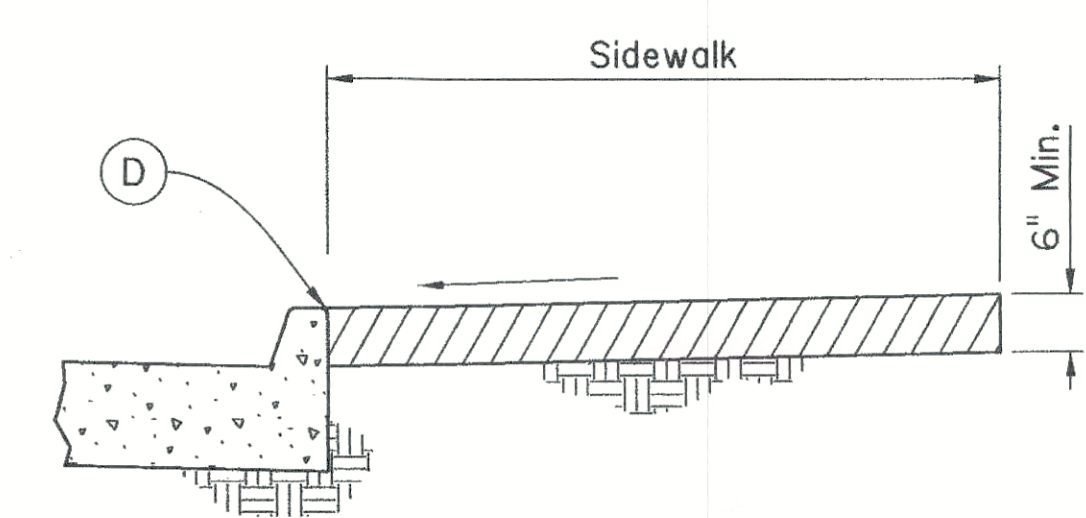
**PLAN VIEW  
SIDEWALK JOINT LAYOUT**  
\* Joint spacing to be approved by Project Engineer



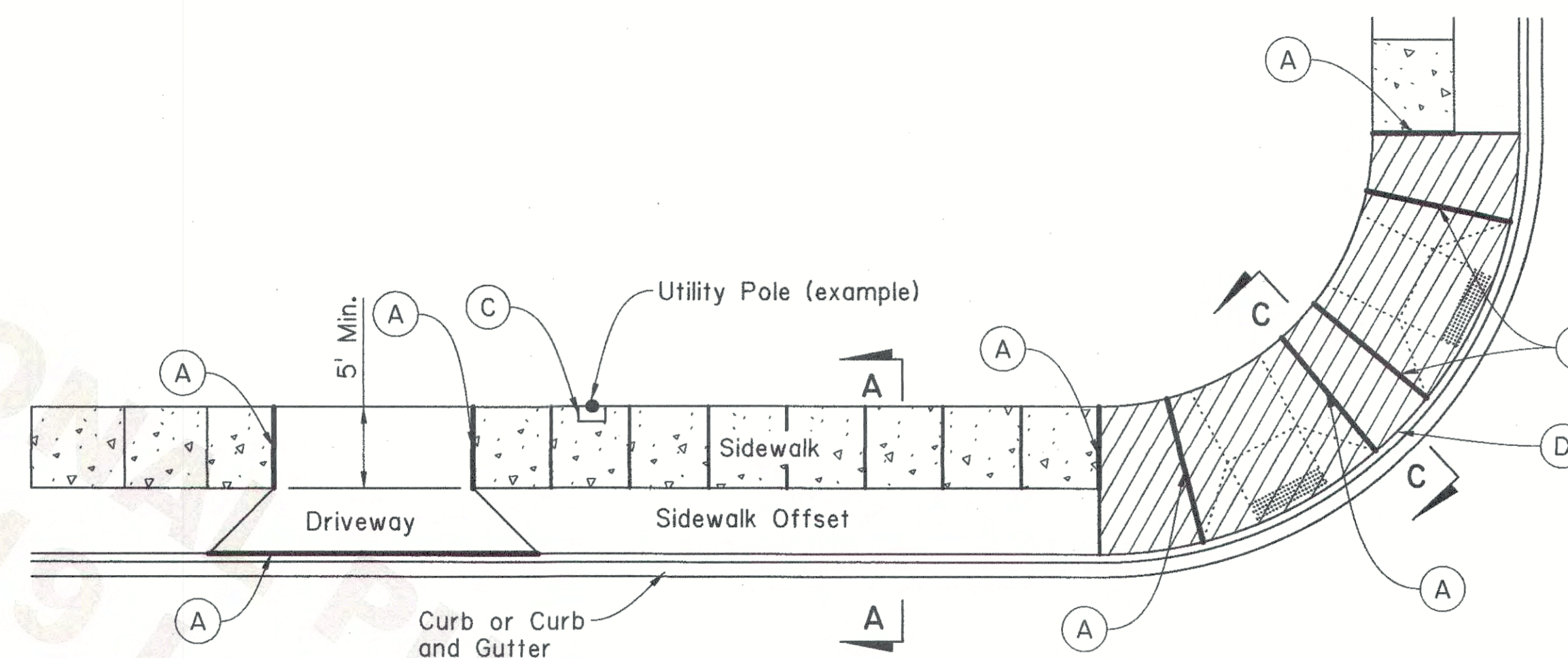
**SECTION AA  
OFFSET SIDEWALK**



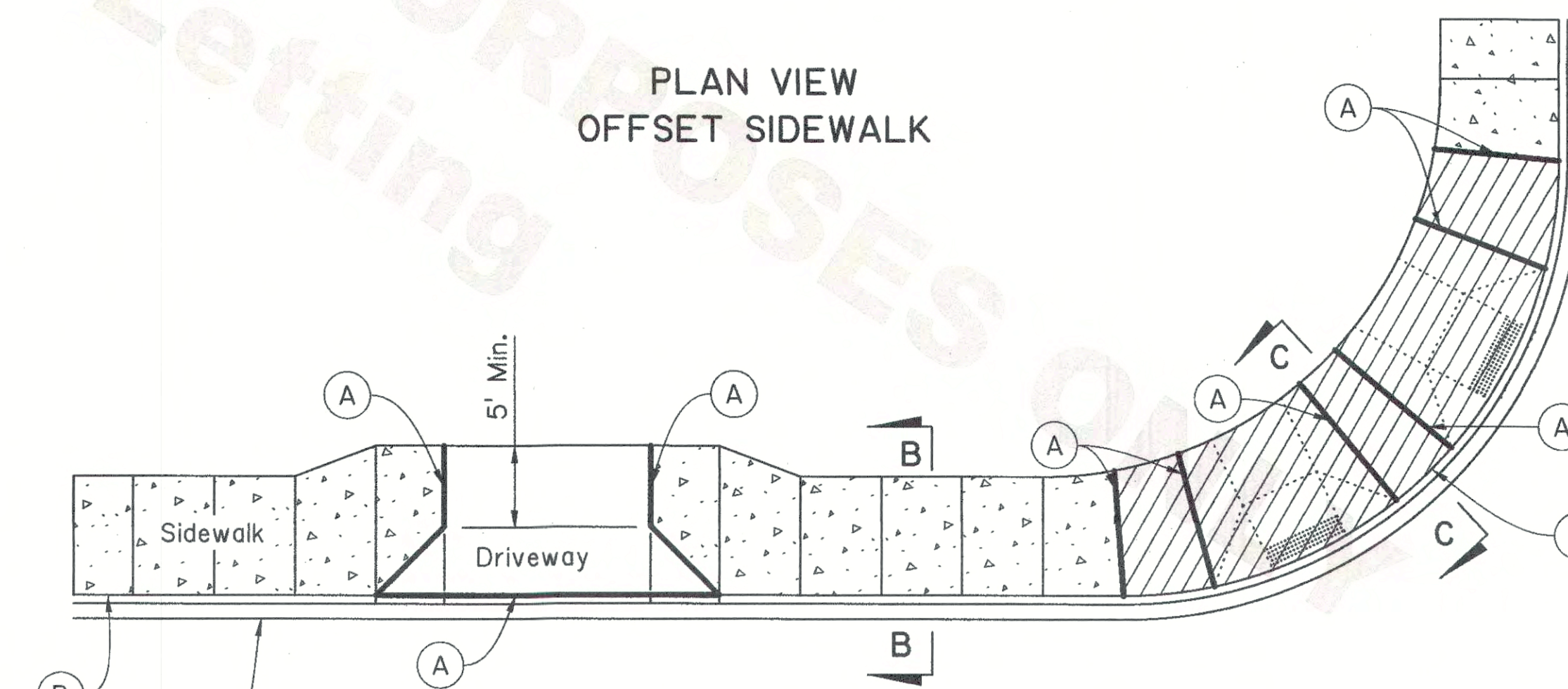
**SECTION BB  
SIDEWALK ADJACENT TO CURB**



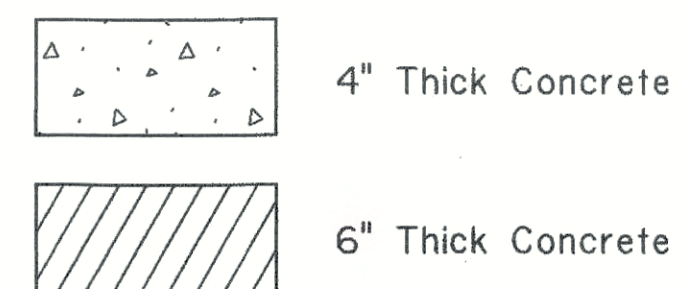
**SECTION CC  
SIDEWALK ADJACENT TO CURB  
(WITHIN RADIUS OF TURNOUT)**



**PLAN VIEW  
OFFSET SIDEWALK**



**PLAN VIEW  
SIDEWALK ADJACENT TO CURB**



**NOTE:**  
Driveways and curb ramps are shown for reference only. Refer to the driveway standard plans and curb ramps sheets for details.

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REVIEW				SERIES # 6 of 6			

STATE OF LOUISIANA  
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Melissa Lebas  
6/12/19

APPROVED BY CHIEF ENGINEER:  
*Christina P. Hebert*  
DATE: 6/13/19

STATE OF LOUISIANA  
DEPARTMENT OF TRANSPORTATION & DEVELOPMENT

**PEDESTRIAN FACILITIES  
JOINT DETAILS**  
PED-01

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TRANSPORTATION & DEVELOPMENT  
ROAD DESIGN



