



ST. TAMMANY PARISH

MICHAEL B. COOPER
PARISH PRESIDENT

NOTICE TO BIDDERS

ST. TAMMANY PARISH

Sealed bids will be received by the Department of Procurement until **2:00 p.m., Tuesday, March 24, 2026**, and then opened and read publicly at that time by the Procurement Staff for the following project:

Bid #26-11-2– Tammany Trace Bridge #24

This bid package is available online at www.bidexpress.com or LaPAC <https://wwwcfprd.doa.louisiana.gov/osp/lapac/dspBid.cfm?search=department&term=185>. It is the Vendor's responsibility to check Bid Express, or LaPAC 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.

The project classification is:

Highway, Street, & Bridge Construction

Paper Bids must be sealed. In addition, the outside of the envelope, box, or package containing the Bid shall be marked with the following information. 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 Bid Name, and the Bid Number. Bids submitted without this information may be deemed non-responsive.

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.

The Procurement Department can be contacted by telephone at (985) 898-2520 or via e-mail at Procurement@stpgov.org. St. Tammany Parish Government reserves the right to reject any or all quotes and to waive informalities.

BID PROPOSAL

ST. TAMMANY PARISH
GOVERNMENT



BID PACKAGE FOR
TAMMANY TRACE BRIDE # 24

BID NO.: 26-11-2

February 2, 2026

PREPARED BY:

DANIEL BINET, P.E.
T. BAKER SMITH, LLC

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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 **two hundred forty (240) 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 and is the responsibility of the contractor to obtain tax exemption if applicable. 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. Contractor shall be liable without limitation to the Parish for any and all injury, death, damage, loss, destruction, damages, costs, fines, penalties, judgments, forfeitures, assessments, expenses (including attorney fees), obligations, and other liabilities of every name and description, which may occur or in any way arise out of any act or omission of Contractor, its owners, agents, employees, partners or subcontractors.
22. Upon notice of any claim, demand, suit, or cause of action against the Parish, alleged to arise out of or be related to this Contract, Contractor shall investigate, handle, respond to, provide defense for, and defend at its sole expense, even if the claim, demand, suit, or cause of action is groundless, false, or fraudulent. The Parish may, but is not required to, consult with or assist the Contractor, but this assistance shall not affect the Contractor's obligations, duties, and responsibilities under this section. Contractor shall obtain the Parish's written consent before entering into any settlement or dismissal.
23. It is understood and agreed that neither party can foresee the exigencies beyond the control of each party which arise by reason of an Act of God or force majeure; therefore, neither party shall be liable for any delay or failure in performance beyond its control resulting from an Act of God or force majeure. The Parish shall determine whether a delay or failure results from an Act of God or force majeure based on its review of all facts and circumstances. The parties shall use reasonable efforts, including but not limited to, use of continuation of operations plans (COOP), business continuity plans, and disaster recovery plans, to eliminate or minimize the effect of such events upon the performance of their respective duties under this Contract.
24. Contractor shall fully indemnify and hold harmless the Parish, without limitation, for any and all injury, death, damage, loss, destruction, damages, costs, fines, penalties, judgments, forfeitures, assessments, expenses (including attorney fees), obligations, and other liabilities of every name and description, which may occur or in any way arise out of any act or omission of Contractor, its owners, agents, employees, partners or subcontractors. The Contractor shall not indemnify for the portion of any loss or damage arising from the Parish's act or failure to act.
25. Contractor shall fully indemnify and hold harmless the Parish, without limitation, from and against damages, costs, fines, penalties, judgments, forfeitures, assessments, expenses (including attorney fees), obligations, and other liabilities in any action for infringement of any intellectual property right, including but not limited to, trademark, trade-secret, copyright, and patent rights.

When a dispute or claim arises relative to a real or anticipated infringement, the Contractor, at its sole expense, shall submit information and documentation, including formal patent attorney opinions, as required by the Parish.

If the use of the product, material, service, or any component thereof is enjoined for any reason or if the Contractor believes that it may be enjoined, Contractor, while ensuring appropriate migration and implementation, data integrity, and minimal delays of performance, shall at its sole expense and in the following order of precedence: (i) obtain for the Parish the right to continue using such product, material, service, or component thereof; (ii) modify the product, material, service, or component thereof so that it becomes a non-infringing product, material, or service of at least equal quality and performance; (iii) replace the product, material, service, or component thereof so that it becomes a non-infringing product, material, or service of at least equal quality and performance; or, (iv) provide the Parish monetary compensation for all payments made under the Contract related to the infringing product, material, service, or component, plus for all costs incurred to procure and implement a non-infringing product, material, or service of at least equal quality and performance. Until this obligation has been satisfied, the Contractor remains in default.

The Contractor shall not be obligated to indemnify that portion of a claim or dispute based upon the Parish's unauthorized: i) modification or alteration of the product, material or service; ii) use of the product, material or service in combination with other products not

furnished by Contractor; or, iii) use of the product, material or service in other than the specified operating conditions and environment.

26. 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.
27. 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.
28. 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.
29. 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.
30. 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.
31. In accordance with Louisiana Law, all Corporations (See LA R.S. 12:26.1) and Limited Liability Companies (See LA R.S. 12:1308.2) should be registered and in good standing with the Louisiana Secretary of State in order to hold a contract.
32. 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 ensure that bids are delivered in a timely fashion. **Late bids, regardless of reason, will not be considered, and will be returned to bidder.**
33. 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**

34. See Notice to Bidders for availability of Drawings, Specifications and Contract Documents via electronic methods.

35. The successful Bidder shall be required to post in each direction a public information sign, 4' x 4' in size, at the location of the project containing information required by the Owner. The Owner shall supply this information.
36. 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 and qualifications 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.
37. At least three days prior to the execution of the Contract, the Contractor shall deliver to the Owner the required Bonds.
38. Failure of the successful Bidder to execute the Contract and deliver the required Bonds within ten (10) 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.
39. 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.
40. 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.
41. 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.

42. 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.

43. 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.
44. 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.
45. 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.
46. 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.
47. 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.
48. 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.
49. 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.
50. Deductibles: Any and all deductibles in the described insurance policies shall be assumed by and be at the sole risk of the Contractor.
51. 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.
52. 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.

53. 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.
54. 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.
55. 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.
56. 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 two (2) working days of the bid opening. 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).
57. 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 protestor can request additional methods of notification.

58. The last day to submit questions to Procurement shall be no later than 2:00 pm CST, seven (7) working days prior to the opening of bids, and verification on comparable products will be no later than 2:00 pm CST, fourteen (14) working days prior to the opening date of the bid/proposal due date. Further, any questions or inquiries must be submitted via fax to 985-898-5227, or via email to Procurement@stpgov.org. Any questions or inquiries received after the required deadline to submit questions or inquiries will not be answered.

Schedule of Events

	<u>Date</u>	<u>Time (CT)</u>
Bid Due Date	March 24, 2026	2:00 PM
Inquiry Deadline	March 13, 2026	2:00 PM
Addendum Deadline	March 19, 2026	2:00 PM

NOTE: The Parish reserves the right to revise this schedule. Any such revision will be formalized by the issuance of an addendum to the Bid Request.

59. 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.
60. 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).
61. Failure to complete or deliver within the time specified or to provide the services as specified in the bid or response will constitute a default and may cause cancellation of the contract. Where the Parish has determined the contractor to be in default. The Parish reserves the right to purchase any or all products or services covered by the contract on the open market and to charge the contractor with the cost in excess of the contract price. Until such assessed charges have been paid, no subsequent bid or response from the defaulting contractor will be considered.
62. 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:

The work to be included under this contract shall consist of furnishing all labor, materials, equipment, tools, supervision, and incidentals necessary for the removal and replacement of the existing bridge structure, earthwork and path base, relocation of existing drainage ditches, installation of concrete and asphalt paving, fabrication and installation of pedestrian handrail, installation of concrete bridge foundations, and installation of prefabricated steel truss pedestrian bridge, as required, per the construction drawings and specifications.

II. Location of Work:

The project is located at Tammany Trace Bridge #24. More specifically, 30°28'33.59"N, 90°02'07.55"W.

III. Documents: Bid Documents dated February 2, 2026, and entitled:

Tammany Trace Bridge #24

Bid No.: 26-11-2

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 (2016 Edition of Louisiana Standard Specifications for Roads and Bridges).

Table 3.1

Liquidated Damages	
Original Contract Amount	Daily Charge
Dollars	Dollars
0 - 250,000	500
250,000 – 1 Million	1,000
> 1 Million – 5 Million	1,500
> 5 Million – 10 Million	2,000
> 10 Million	3,000

- Parish reserves the right to increase the Daily charge rate due to additional provisions required in order to complete the project as described in the specifications

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: Tammany Trace Bridge #24
Bid No.: 26-11-2

(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: _____ and dated: _____.

(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 *(Owner to provide description of alternate and state whether add or deduct)* 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:

_____ Dollars (\$ _____)

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

_____ 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:

Tammany Trace Bridge #24
 Bid No.: 26-11-2
(OWNER TO PROVIDE PROJECT NAME & OTHER IDENTIFYING INFO)

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

Description: <input checked="" type="checkbox"/> BASE BID OR <input type="checkbox"/> ALT # CLEARING AND GRUBBING (est. 0.80 ACRES)				
REF NO.:	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times unit price)
201-01-00100	1	LUMP		
Description: <input checked="" type="checkbox"/> BASE BID OR <input type="checkbox"/> ALT # REMOVAL OF ASPHALT PAVEMENT				
REF NO.:	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times unit price)
202-02-02020	99.3	SQYD		
Description: <input checked="" type="checkbox"/> BASE BID OR <input type="checkbox"/> ALT # REMOVAL OF BASE - SOIL CEMENT, ASPHALT, OR BCS				
REF NO.:	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times unit price)
202-02-03000	99.3	SQYD		
Description: <input checked="" type="checkbox"/> BASE BID OR <input type="checkbox"/> ALT # REMOVAL OF BRIDGE (STA. 106+68.31; 12' (CLR.) x 66' TTTRES)				
REF NO.:	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times unit price)
202-02-04000	1	EACH		

Wording for "description" is to be provided by the Owner. All Quantities Estimated. The Contractor will be paid based upon actual quantities as verified by the Owner.

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

Description: <input checked="" type="checkbox"/> BASE BID OR <input type="checkbox"/> ALT # DRAINAGE EXCAVATION				
REF NO.:	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times unit price)
203-02-00100	119	CUYD		
Description: <input checked="" type="checkbox"/> BASE BID OR <input type="checkbox"/> ALT # EXCAVATION AND EMBANKMENT				
REF NO.:	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times unit price)
203-05-00100	1	LUMP		
Description: <input checked="" type="checkbox"/> BASE BID OR <input type="checkbox"/> ALT # TEMPORARY SEDIMENT CHECK DAMS (HAY)				
REF NO.:	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times unit price)
204-05-00100	4	EACH		
Description: <input checked="" type="checkbox"/> BASE BID OR <input type="checkbox"/> ALT # TEMPORARY SILT FENCING				
REF NO.:	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times unit price)
204-06-00100	337	LNFT		
Description: <input checked="" type="checkbox"/> BASE BID OR <input type="checkbox"/> ALT # CLASS II BASE COURSE (CRUSHED STONE)				
REF NO.:	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times unit price)
302-01-00300	68.4	CUYD		
Description: <input checked="" type="checkbox"/> BASE BID OR <input type="checkbox"/> ALT # THIN ASPHALT CONCRETE (DENSE MIX)				
REF NO.:	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times unit price)
501-01-00100	3.8	TON		

Wording for "description" is to be provided by the Owner. All Quantities Estimated. The Contractor will be paid based upon actual quantities as verified by the Owner.

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

Description: <input checked="" type="checkbox"/> BASE BID OR <input type="checkbox"/> ALT # ASPHALT CONCRETE				
REF NO.:	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times unit price)
502-01-00100	7.6	TON		
Description: <input checked="" type="checkbox"/> BASE BID OR <input type="checkbox"/> ALT # RIPRAP (30 LB, 18" THICK)				
REF NO.:	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times unit price)
711-01-03020	152	SQYD		
Description: <input checked="" type="checkbox"/> BASE BID OR <input type="checkbox"/> ALT # GEOTEXTILE FABRIC				
REF NO.:	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times unit price)
711-04-00100	152	SQYD		
Description: <input checked="" type="checkbox"/> BASE BID OR <input type="checkbox"/> ALT # TEMPORARY SIGNS AND BARRICADES				
REF NO.:	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times unit price)
713-01-00100	1	LUMP		
Description: <input checked="" type="checkbox"/> BASE BID OR <input type="checkbox"/> ALT # MULCH (VEGETATIVE)				
REF NO.:	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times unit price)
716-01-00100	0.1	TON		
Description: <input checked="" type="checkbox"/> BASE BID OR <input type="checkbox"/> ALT # SEEDING				
REF NO.:	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times unit price)
717-01-00100	2	LB		

Wording for "description" is to be provided by the Owner. All Quantities Estimated. The Contractor will be paid based upon actual quantities as verified by the Owner.

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

Description: <input checked="" type="checkbox"/> BASE BID OR <input type="checkbox"/> ALT # FERTILIZER				
REF NO.:	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times unit price)
718-01-00100	76	LB		
Description: <input checked="" type="checkbox"/> BASE BID OR <input type="checkbox"/> ALT # MOBILIZATION				
REF NO.:	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times unit price)
727-01-00100	1	LUMP		
Description: <input checked="" type="checkbox"/> BASE BID OR <input type="checkbox"/> ALT # CONSTRUCTION LAYOUT				
REF NO.:	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times unit price)
740-01-00100	1	LUMP		
Description: <input checked="" type="checkbox"/> BASE BID OR <input type="checkbox"/> ALT # PRECAST CONCRETE PILES (14")				
REF NO.:	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times unit price)
804-01-00200	800	LNFT		
Description: <input checked="" type="checkbox"/> BASE BID OR <input type="checkbox"/> ALT # CONSTRUCTION SITE SURVEY				
REF NO.:	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times unit price)
804-17-00100	1	LUMP		
Description: <input checked="" type="checkbox"/> BASE BID OR <input type="checkbox"/> ALT # VIBRATION MONITORING				
REF NO.:	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times unit price)
804-18-00100	8	DAY		

Wording for "description" is to be provided by the Owner. All Quantities Estimated. The Contractor will be paid based upon actual quantities as verified by the Owner.

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

Description: <input checked="" type="checkbox"/> BASE BID OR <input type="checkbox"/> ALT # CLASS A1 CONCRETE (DECK)				
REF NO.:	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times unit price)
805-01-00200	17.78	CUYD		
Description: <input checked="" type="checkbox"/> BASE BID OR <input type="checkbox"/> ALT # CLASS A1 CONCRETE (BENT CAP)				
REF NO.:	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times unit price)
805-01-00300	37.6	CUYD		
Description: <input checked="" type="checkbox"/> BASE BID OR <input type="checkbox"/> ALT # CONCRETE FINISH (CLASS 2 RUBBED FINISH)				
REF NO.:	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times unit price)
805-18-00100	194	SQFT		
Description: <input checked="" type="checkbox"/> BASE BID OR <input type="checkbox"/> ALT # CONCRETE FINISH (CLASS 3 SPECIAL FINISH)				
REF NO.:	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times unit price)
805-18-00200	194	SQFT		
Description: <input checked="" type="checkbox"/> BASE BID OR <input type="checkbox"/> ALT # DEFORMED REINFORCING STEEL				
REF NO.:	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times unit price)
806-01-00100	6348	LB		
Description: <input checked="" type="checkbox"/> BASE BID OR <input type="checkbox"/> ALT # STRUCTURAL METALWORK (ANCHOR BOLTS)				
REF NO.:	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times unit price)
807-02-00100	1	LUMP		

Wording for "description" is to be provided by the Owner. All Quantities Estimated. The Contractor will be paid based upon actual quantities as verified by the Owner.

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

Description: <input checked="" type="checkbox"/> BASE BID OR <input type="checkbox"/> ALT # CONCRETE APPROACH SLABS (CAST-IN-PLACE)				
REF NO.:	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times unit price)
813-01-00100	278	SQFT		
Description: <input checked="" type="checkbox"/> BASE BID OR <input type="checkbox"/> ALT # SEALED EXPANSION JOINT (END DAMS AND PREFORMED NEOPRENE SEAL)				
REF NO.:	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times unit price)
815-02-00100	72	LNFT		
Description: <input checked="" type="checkbox"/> BASE BID OR <input type="checkbox"/> ALT # SAW CUTTING ASPHALT CONCRETE PAVEMENT				
REF NO.:	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times unit price)
NS-500-00340	80	INLF		
Description: <input checked="" type="checkbox"/> BASE BID OR <input type="checkbox"/> ALT # BOLLARD				
REF NO.:	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times unit price)
NS-700-00011	2	EACH		
Description: <input checked="" type="checkbox"/> BASE BID OR <input type="checkbox"/> ALT # PEDESTRIAN BRIDGE				
REF NO.:	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times unit price)
TS-800-00100	1	LUMP		
Description: <input checked="" type="checkbox"/> BASE BID OR <input type="checkbox"/> ALT # HAND RAILING				
REF NO.:	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times unit price)
TS-800-00300	36	LNFT		

Wording for "description" is to be provided by the Owner. All Quantities 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: _____



Section 06

INSURANCE REQUIREMENTS*

Construction Project: Tammany Trace Bridge #24

Bid#: 26-11-2

*****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. 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 \$1,000,000 CSL each occurrence / \$1,000,000 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 as an "all-risk" policy providing coverage in an amount at or greater than one hundred percent (100%) of the completed value of the contracted project. 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 named as a Loss Payee 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 named as a Loss Payee 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: 985-898-5226
Email: riskman@stpgov.org**

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

Project Name
Description of
Project Work

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

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

Total Dollar \$
amount specified here

Example of a Completed Parish Project Sign:



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 Contractor with whom the Owner has executed the Agreement.
- 01.16 Defective Work When 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 based on **Table 3.1** 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 per **Table 3.1** 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 Contractor, 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 fourteen working days prior to the opening of bids. Within ten 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/\$2,000,000 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 Office of Risk Management prior to execution of a contract for services.

For inquiries regarding insurance requirements, please contact:

**St. Tammany Parish Government
Office of Risk Management
P. O. Box 628
Covington, LA 70434
Telephone: 985-898-5226
Email: 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 protester can request additional methods of notification.

CORPORATE RESOLUTION

EXCERPT FROM MINUTES OF MEETING OF THE BOARD OF DIRECTORS OF INCORPORATED.

AT THE MEETING OF DIRECTORS OF _____ INCORPORATED, DULY NOTICED AND HELD ON _____, A QUORUM BEING THERE PRESENT, ON MOTION DULY MADE AND SECONDED. IT WAS:

RESOLVED THAT _____, BE AND IS HEREBY APPOINTED, CONSTITUTED AND DESIGNATED AS AGENT AND ATTORNEY-IN-FACT OF THE CORPORATION WITH FULL POWER AND AUTHORITY TO ACT ON BEHALF OF THIS CORPORATION IN ALL NEGOTIATIONS, BIDDING, CONCERNS AND TRANSACTIONS WITH THE PARISH OF ST. TAMMANY OR ANY OF ITS AGENCIES, DEPARTMENTS, EMPLOYEES OR AGENTS, INCLUDING BUT NOT LIMITED TO, THE EXECUTION OF ALL BIDS, PAPERS, DOCUMENTS, AFFIDAVITS, BONDS, SURETIES, CONTRACTS AND ACTS AND TO RECEIVE ALL PURCHASE ORDERS AND NOTICES ISSUED PURSUANT TO THE PROVISIONS OF ANY SUCH BID OR CONTRACT, THIS CORPORATION HEREBY RATIFYING, APPROVING, CONFIRMING, AND ACCEPTING EACH AND EVERY SUCH ACT PERFORMED BY SAID AGENT AND ATTORNEY-IN-FACT.

I HEREBY CERTIFY THE FOREGOING TO BE A TRUE AND CORRECT COPY OF AN EXCERPT OF THE MINUTES OF THE ABOVE DATED MEETING OF THE BOARD OF DIRECTORS OF SAID CORPORATION, AND THE SAME HAS NOT BEEN REVOKED OR RESCINDED.

SECRETARY-TREASURER

DATE

Section 10

Certificate of Insurance Instructions

The below information is intended to guide Contractors on what information is needed to be listed on the Certificate of Insurance. All Insurance limit requirements can be found in Attachment D.

- **Certificate Holder** – STPG must be listed as the certificate holder, and it must include our address of: P.O. Box 628, Covington, LA 70434
 - Reason: the certificate holder is where cancellations of coverage, or updated certificates are mailed. If a vendor terminates a policy, we will be notified.
- **Additional Insured** – We must be named as an additional insured so that if there is a lawsuit against the vendor for a project, their coverage will cover STPG as well if we are named in the lawsuit.
 - We must be named in the Description of Operations box – reason: there could be other additional insureds, and we want to have no doubt that we are one of the additional insureds.
 - We must be named as additional insured on the following coverages: General liability, Auto Liability, Umbrella/Excess Liability, Environmental/Pollution Liability.
 - Professional Liability policies do not allow for an additional insured by most carriers.
- **Project Name & Contract #** - We need this listed in the Description of Operations, again so that if there is a lawsuit, we have proof that coverage was active for that project.
- **Waiver of Subrogation** – This can either be listed in the Description of Operations or checked off in the appropriate columns.

From the Insurance Requirement form:

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.

- **Owners Protective Liability (OPL) or (OCP)** – Certificate of Insurance for OCP names St. Tammany Parish Government as the Insured and the Certificate Holder.
- Sample of Certificate of Insurance (COI) can be found on page 2.
- Please refer to this section in the package labeled “Insurance Requirements” for limits required for this project

Any questions regarding insurance requirements please contact the Risk Department at 985-898-5226 or email riskman@stpgov.org



CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY)

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AFFIRMATIVELY OR NEGATIVELY AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW. THIS CERTIFICATE OF INSURANCE DOES NOT CONSTITUTE A CONTRACT BETWEEN THE ISSUING INSURER(S), AUTHORIZED REPRESENTATIVE OR PRODUCER, AND THE CERTIFICATE HOLDER.

IMPORTANT: If the certificate holder is an ADDITIONAL INSURED, the policy(ies) must be endorsed. If SUBROGATION IS WAIVED, subject to the terms and conditions of the policy, certain policies may require an endorsement. A statement on this certificate does not confer rights to the certificate holder in lieu of such endorsement(s).

PRODUCER	CONTACT NAME:		
	PHONE (A/C, No. Ext):	FAX (A/C, No):	
	E-MAIL ADDRESS:		
	INSURER(S) AFFORDING COVERAGE		NAIC #
INSURED	INSURER A :		
	INSURER B :		
	INSURER C :		
	INSURER D :		
	INSURER E :		
	INSURER F :		

COVERAGES

CERTIFICATE NUMBER:

REVISION NUMBER:

THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

INSR LTR	TYPE OF INSURANCE	ADDL INSR	SUBR WVD	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS
	GENERAL LIABILITY <input type="checkbox"/> COMMERCIAL GENERAL LIABILITY <input type="checkbox"/> CLAIMS-MADE <input type="checkbox"/> OCCUR GEN'L AGGREGATE LIMIT APPLIES PER: <input type="checkbox"/> POLICY <input type="checkbox"/> PRO-JECT <input type="checkbox"/> LOC						EACH OCCURRENCE \$ DAMAGE TO RENTED PREMISES (Ea occurrence) \$ MED EXP (Any one person) \$ PERSONAL & ADV INJURY \$ GENERAL AGGREGATE \$ PRODUCTS - COMP/OP AGG \$ \$
	AUTOMOBILE LIABILITY <input type="checkbox"/> ANY AUTO <input type="checkbox"/> ALL OWNED AUTOS <input type="checkbox"/> HIRED AUTOS <input type="checkbox"/> SCHEDULED AUTOS <input type="checkbox"/> NON-OWNED AUTOS						COMBINED SINGLE LIMIT (Ea accident) \$ BODILY INJURY (Per person) \$ BODILY INJURY (Per accident) \$ PROPERTY DAMAGE (Per accident) \$ \$
	UMBRELLA LIAB <input type="checkbox"/> OCCUR EXCESS LIAB <input type="checkbox"/> CLAIMS-MADE DED <input type="checkbox"/> RETENTION \$						EACH OCCURRENCE \$ AGGREGATE \$ \$
	WORKERS COMPENSATION AND EMPLOYERS' LIABILITY ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? (Mandatory in NH) If yes, describe under DESCRIPTION OF OPERATIONS below						<input type="checkbox"/> WC STATUTORY LIMITS <input type="checkbox"/> OTHER E.L. EACH ACCIDENT \$ E.L. DISEASE - EA EMPLOYEE \$ E.L. DISEASE - POLICY LIMIT \$

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (Attach ACORD 101, Additional Remarks Schedule, if more space is required)

Project Name:
Contract #:

(Name St. Tammany Parish Government as an additional insured).

CERTIFICATE HOLDER**CANCELLATION**St. Tammany Parish Government
P.O. Box 628
Covington, LA 70434

SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS.

AUTHORIZED REPRESENTATIVE

SECTION 11

Bond No.: _____

**CONTRACT AGREEMENT
BETWEEN PARISH AND CONTRACTOR**

BY: ST. TAMMANY PARISH GOVERNMENT

WITH: «TXTCOMPANYNAME»

UNITED STATES OF

AMERICA

STATE OF LOUISIANA

ST. TAMMANY PARISH

This agreement is entered into this _____ day of _____, 20____, by and between: «TXTCOMPANYNAME», hereinafter called the "Contractor", whose business address is «TXTADDRESS», «TXTCITY», «TXTSTATE» «txtZip» and the St. Tammany Parish Government, hereinafter called the "Parish", whose business address is P.O. Box 628, Covington, LA 70434 (collectively, the "Parties") for «TXTPROJECTNAME» project. Witnessed that the Contractor and the Parish, in consideration of premises and the mutual covenants, consideration and agreement herein contained, agree as follows:

1. SCOPE OF SERVICES

«txtScopeSummary»

2. CONSTRUCTION DOCUMENTS

It is recognized by the Parties herein that said Construction Documents, including by way of example and not of limitation, the plans and Specifications, General Conditions, Supplementary General Conditions, any addenda thereto, the drawings (if any), and the bid, quote or other procurement documents impose duties and obligations upon the Parties herein, and said Parties thereby agree that they shall be bound by said duties and obligations. For these purposes, all of the provisions contained in the aforementioned Construction Documents are incorporated herein by reference with the same force and effect as though said Construction Documents were herein set out in full. Copies of the aforementioned Construction Documents are in the possession of both the Contractor and the Parish for reference.

3. TIME FOR COMPLETION

The work shall be commenced on a date to be specified in a written order of the Parish and shall be completed within «intCompletionTime» () calendar days from and after said date.

4. COMPENSATION TO BE PAID TO THE CONTRACTOR

The Parish will pay and the Contractor will accept in full consideration for the performance of the Contract the sum of «curREQGrandTotal».

5. RETAINAGE

A retainage fee will be applied to all contracts with a total price of \$100,000.00 or more. For contracts priced between \$100,000.00 and \$499,999.99, the retainage shall be 10% of the amount. For contracts priced at \$500,000.00 or more, the retainage shall be 5%. Retainage will be deducted from each payment and released in accordance with the contract closeout and acceptance requirements.

6. PERFORMANCE AND PAYMENT BOND

To these presents personally came and intervened _____,
(Name of Attorney in Fact)
herein acting for _____, a corporation organized
(Surety)
and existing under the laws of the State of _____, and duly authorized to transact business in the State of Louisiana, as surety, who declared that having taken cognizance of this Contract and of the Construction Documents mentioned

herein, he hereby in his capacity as its Attorney in Fact obligates his company, as surety for the said Contractor, unto the said Parish, up to the sum of «curREQGrandTotal». The condition of this performance and payment bond shall be that should the Contractor herein not perform the Contract in accordance with the terms and conditions hereof, or should said Contractor not fully indemnify and save harmless the Parish from all costs and damages which he may suffer by said Contractor's non-performance or should said Contractor not pay all persons who have fulfilled obligations to perform labor and/or furnish materials in the prosecution of the work provided for herein, including by way of example, workmen, laborers, mechanics, and furnishers of materials, machinery, equipment and fixtures, then said surety agrees and is bound to so perform the Contract and make said payment(s).

Contractor and Parish specifically agree to and recognize (1) the statutory employer relationship existing between the Parish and any employees performing work under this Contract as employees of the Contractor or employees of the “Sub-Contractor”, and (2) that the work performed by the employees of the Contractor and the employees of the “Sub-Contractor” is part of the Parish’s

business, occupation or trade and is essential to the ability of the Parish to generate their products or services, all of which is in accordance with LSA-R.S. 23:1061, and as may be amended.

7. LIABILITY AND INDEMNIFICATION

A. Duty to Defend

Upon notice of any claim, demand, suit, or cause of action against the Parish, alleged to arise out of or be related to this Contract, Contractor shall investigate, handle, respond to, provide defense for, and defend at its sole expense, even if the claim, demand, suit, or cause of action is groundless, false, or fraudulent. The Parish may, but is not required to, consult with or assist the Contractor, but this assistance shall not affect the Contractor's obligations, duties, and responsibilities under this section. Contractor shall obtain the Parish's written consent before entering into any settlement or dismissal.

B. Contractor Liability

Contractor shall be liable without limitation to the Parish for any and all injury, death, damage, loss, destruction, damages, costs, fines, penalties, judgments,

forfeitures, assessments, expenses (including attorney fees), obligations, and other liabilities of every name and description, which may occur or in any way arise out of any act or omission of Contractor, its owners, agents, employees, partners or subcontractors.

C. Force Majeure

It is understood and agreed that neither party can foresee the exigencies beyond the control of each party which arise by reason of an Act of God or force majeure; therefore, neither party shall be liable for any delay or failure in performance beyond its control resulting from an Act of God or force majeure. The Parish shall determine whether a delay or failure results from an Act of God or force majeure based on its review of all facts and circumstances. The parties shall use reasonable efforts, including but not limited to, use of continuation of operations plans (COOP), business continuity plans, and disaster recovery plans, to eliminate or minimize the effect of such events upon the performance of their respective duties under this Contract.

D. Indemnification

Contractor shall fully indemnify and hold harmless the Parish, without limitation, for any and all injury, death, damage, loss, destruction, damages, costs, fines, penalties, judgments, forfeitures, assessments, expenses (including attorney fees), obligations, and other liabilities of every name and description, which may occur or in any way arise out of any act or omission of Contractor, its owners, agents, employees, partners or subcontractors. The Contractor shall not indemnify for the portion of any loss or damage arising from the Parish's act or failure to act.

E. Intellectual Property Indemnification

Contractor shall fully indemnify and hold harmless the Parish, without limitation, from and against damages, costs, fines, penalties, judgments, forfeitures, assessments, expenses (including attorney fees), obligations, and other liabilities in any action for infringement of any intellectual property right, including but not limited to, trademark, trade-secret, copyright, and patent rights.

When a dispute or claim arises relative to a real or anticipated infringement, the Contractor, at its sole expense, shall submit information and documentation,

including formal patent attorney opinions, as required by the Parish.

If the use of the product, material, service, or any component thereof is enjoined for any reason or if the Contractor believes that it may be enjoined, Contractor, while ensuring appropriate migration and implementation, data integrity, and minimal delays of performance, shall at its sole expense and in the following order of precedence: (i) obtain for the Parish the right to continue using such product, material, service, or component thereof; (ii) modify the product, material, service, or component thereof so that it becomes a non-infringing product, material, or service of at least equal quality and performance; (iii) replace the product, material, service, or component thereof so that it becomes a non-infringing product, material, or service of at least equal quality and performance; or, (iv) provide the Parish monetary compensation for all payments made under the Contract related to the infringing product, material, service, or component, plus for all costs incurred to procure and implement a non-infringing product, material, or service of at least equal quality and performance. Until this obligation has been satisfied, the Contractor remains in default.

The Contractor shall not be obligated to indemnify that portion of a claim or dispute based upon the Parish's unauthorized: i) modification or alteration of the product, material or service; ii) use of the product, material or service in combination with other products not furnished by Contractor; or, iii) use of the product, material or service in other than the specified operating conditions and environment.

8. MODIFICATION OF CONTRACT TERMS

Provided that any alterations which may be made in the terms of the Contract or in the work to be done under it, or the giving by the Parish of any extensions of time for the performance of the Contract, or any other forbearance on the part of either the Parish or the Contractor to the other shall not in any way release the Contractor or the Surety from their liability hereunder, notice to the Surety of any such alterations, extensions or other forbearance being hereby waived.

8. TERMINATION, CANCELLATION, AND SUSPENSION

A. Termination

The term of this Contract shall be binding upon the Parties hereto until the work has been

completed by the Contractor and accepted by the Parish, and all payments required to be made to the Contractor have been made. But, this Contract may be terminated upon thirty (30) days written notice under any or all of the following conditions:

- 1) By mutual agreement and consent of the Parties hereto;
- 2) By the Parish as a consequence of the failure of the Contractor to comply with the terms, progress, or quality of the work in a satisfactory manner, proper allowances being made for circumstances beyond the control of the Contractor;
- 3) By either party upon failure of the other party to fulfill its obligations as set forth in this Contract;
- 4) By the Parish with less than thirty (30) days' notice due to budgetary reductions and changes in funding priorities by the Parish;
- 5) In the event of the abandonment of the project by the Parish.

Upon termination, the Contractor shall be paid for actual work performed prior to the Notice of Termination, either based upon the established hourly rate for services actually performed, or on a pro-rata share of the basic fee based upon the phase or percentage of

work actually completed, depending on the type of compensation previously established under this Contract.

Upon Termination, the Contractor shall deliver to the Parish all original documents, notes, drawings, tracings, computer files, and other files pertaining to this Contract or the Work performed, except for the Contractor's personal and administrative files.

B. Cancellation

The continuation of this Contract is contingent upon the appropriation of funds to fulfill the requirements of the Contract by the Parish. If the Parish fails to appropriate sufficient monies to provide for the continuation of this or any other Contract, or if such appropriation is reduced by the veto of Parish President by any means provided in the appropriations Ordinance to prevent the total appropriation for the year from exceeding revenues for that year, or for any other lawful purpose, and the effect of such reduction is to provide insufficient monies for the continuation of the Contract, the Contract shall terminate on the date of the beginning of the first fiscal year for which funds are not appropriated. It is understood and agreed that paragraph (9)(C) below may preempt this paragraph, all at the exclusive and unilateral option of the Parish.

C. Suspension

Should the Parish desire to suspend the work, but not definitely terminate the Contract, the Parish shall supply the Contractor with thirty (30) days' notice. The Parish will also supply Contractor thirty (30) days' notice that the work is to be reinstated and resumed in full force. Contractor shall receive no additional compensation during the suspension period. The Parties may revisit the terms of this Contract during the suspension period. The suspension shall not exceed six (6) months, unless mutually agreed upon between the Parties.

D. Failure to complete or deliver within the time specified or to provide the services as specified in the bid or response will constitute a default and may cause cancellation of the contract. Where the Parish has determined the contractor to be in default. The Parish reserves the right to purchase any or all products or services covered by the contract on the open market and to charge the contractor with the cost in excess of the contract price. Until such assessed charges have been paid, no subsequent bid or response from the defaulting contractor will be considered.

E. In the event of a default and/or breach of this agreement and this matter is forwarded to

legal counsel, then the prevailing party may be entitled to collect a reasonable attorney fees and all costs associated therewith whether or not litigation is initiated. Attorney fees shall be based upon the current, reasonable prevailing rate for counsel in the private sector. The Parties agree to be responsible for such attorney fees, together for all with legal interest from date of agreement breach, plus all costs of collection.

F. Termination or cancellation of this agreement will not affect any rights or duties arising under any term or condition herein.

G. As to the filing of voluntary or involuntary bankruptcy by Contractor, Contractor agrees that if any execution or legal process is levied upon its interest in this Contract, or if any liens or privileges are filed against its interest, or if a petition in bankruptcy is filed against it, or if it is adjudicated bankrupt in involuntary proceedings, or if it should breach this Contract in any material respect, the Parish shall have the right, at its unilateral option, to immediately cancel and terminate this Contract. In the event that Contractor is placed in any chapter of bankruptcy, voluntarily or involuntarily, or otherwise triggers any provision of the preceding sentence herein, it is understood and agreed that all materials, goods and/or services provided shall be and remain the property of the Parish. All rights of Contractor as to goods, wares, products, services, materials and the like

supplied to Parish shall be deemed forfeited.

9. AUTHORITY TO ENTER CONTRACT

The undersigned representative of Contractor warrants and personally guarantees that he/she has the requisite and necessary authority to enter and sign this Contract on behalf of the corporate entity, partnership, etc. The undersigned Parties warrant and represent that they each have the respective authority and permission to enter this Contract. In the event that Contractor is a member of a corporation, partnership, L.L.C., L.L.P., or any other juridical entity, the Parish requires, as an additional provision, that Contractor supply a certified copy of a corporate resolution authorizing the undersigned to enter and sign this Contract. Another option to fulfill this additional provision he/she can supply Louisiana Secretary of State Business filings confirming that he/she is a managing member of a corporation, partnership, L.L.C., L.L.P., or any other juridical entity which authorizes the undersigned to enter and sign this Contract.

Bond No.: _____

In Witness thereof, the Parties hereto on the day and year first above written have executed this Contract in **One (1)** counterpart, each of which shall, without proof or accountancy for the other counterparts, be deemed an original thereof.

WITNESSES:

CONTRACTOR:

Signature

Signature

Print Name

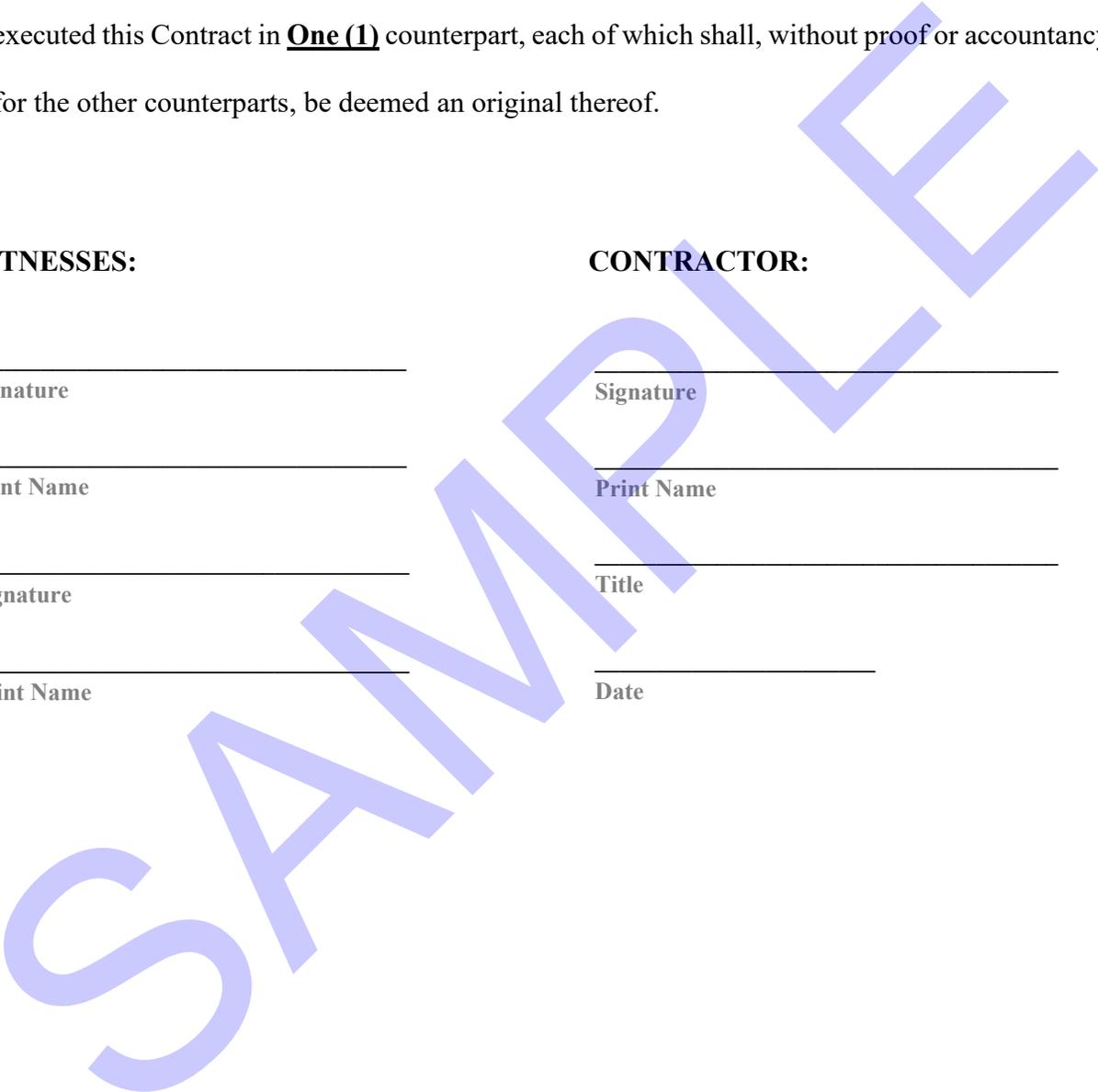
Print Name

Signature

Title

Print Name

Date



Bond No.: _____

WITNESSES:

Signature

Print Name

Signature

Print Name

**ST. TAMMANY PARISH
GOVERNMENT:**

Michael B. Cooper
Parish President

Date

APPROVED BY:

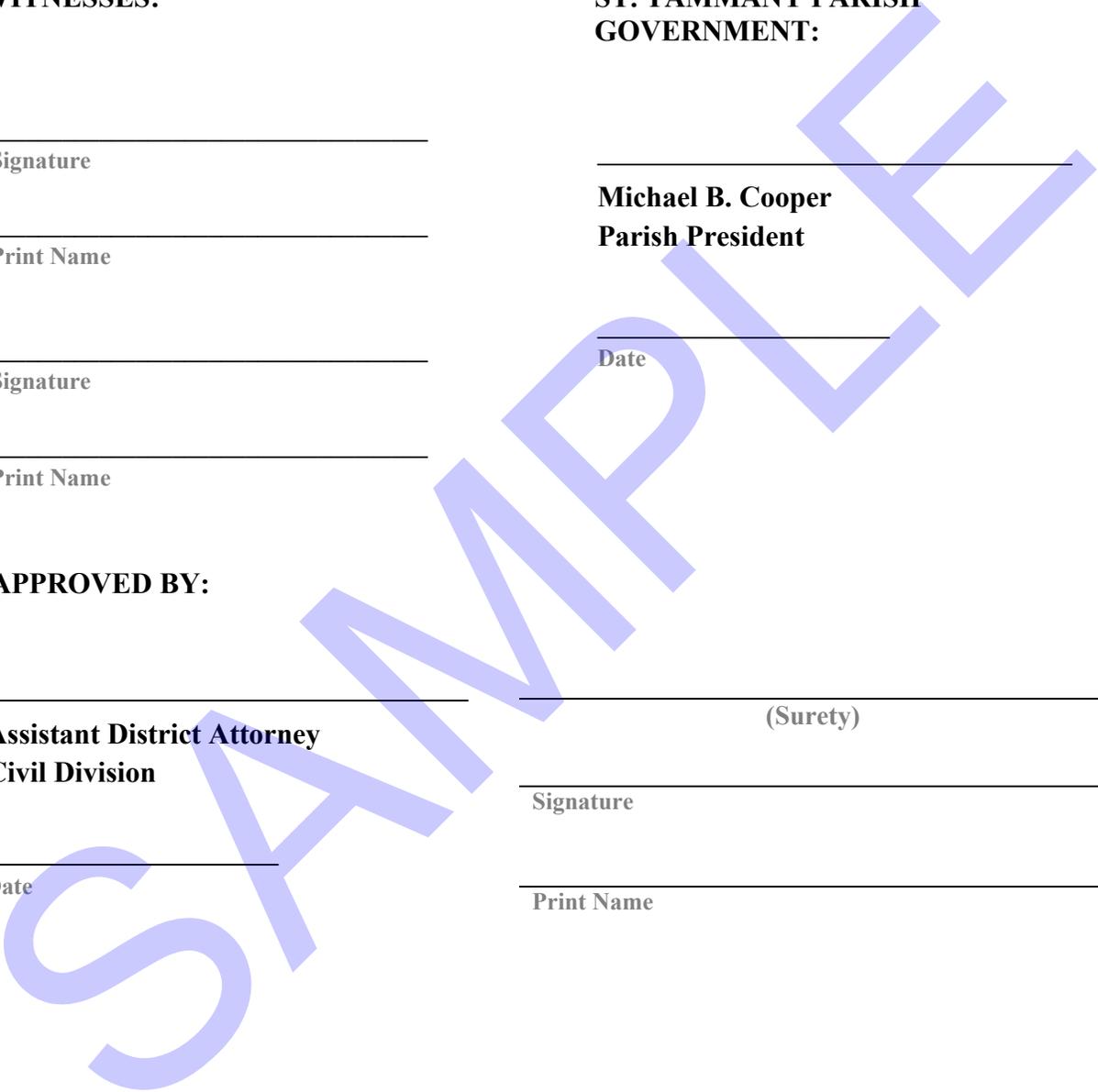
Assistant District Attorney
Civil Division

(Surety)

Signature

Date

Print Name



Section 12

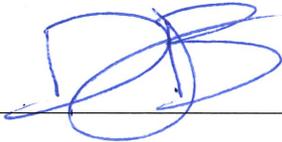
ST. TAMMANY PARISH DEPARTMENT OF ENGINEERING

TAMMANY TRACE BRIDGE # 24

BID No. 26-11-2

The following Non-Standard and Technical specifications have been prepared by or under the direct supervision of the licensed Civil Engineer whose seal/stamp appears below.

- NS-500-00340 SAW CUTTING ASPHALT CONCRETE PAVEMENT
- NS-700-00011 BOLLARD
- TS-800-00100 PEDESTRIAN BRIDGE
- TS-800-00300 HAND RAILING



Daniel Binet, P.E.
Lead Transportation Engineer, Bridges
T. Baker Smith, LLC

Date: 10.2.2025



Section 01 - Special Specifications for Saw Cutting Asphalt Concrete Pavement

1.0 DESCRIPTION

This work consists of furnishing all equipment, labor, materials and incidentals to perform saw cutting of existing asphalt concrete pavement as shown on the plans or directed by the Project Engineer.

2.0 MATERIALS

Vacant

3.0 CONSTRUCTION REQUIREMENTS

Vacant

4.0 MEASUREMENT

Saw cutting will be measured and paid at the contract unit price, per inch depth times the linear foot of cut, of the asphalt concrete pavement.

5.0 PAYMENT

Saw cutting will be measured and paid at the contract unit price, per inch depth times the linear foot of cut of the asphalt concrete pavement. Payment will be made under:

<u>Item No.</u>	<u>Pay Item</u>	<u>Pay Unit</u>
NS-500-00340	Saw Cutting Asphalt Concrete Pavement	INLF

Section 02 - Special Specifications for Bollard

1.0 DESCRIPTION

This work shall consist of furnishing and installing plastic, breakaway bollards at the locations shown on the plans and/or as directed by the project engineer.

2.0 MATERIALS

Bollards shall be a flexible plastic delineating post at least 36" tall. Bollard shall be connected to asphalt/concrete path via adhesive Butyl pad or anchor bolts. Bollard to be high visibility yellow with reflectorized bands.

3.0 CONSTRUCTION REQUIREMENTS

Bollard components shall be constructed such that all work shall be free of blemishes or defects which could affect durability, strength or appearance. Bollards shall be set vertical and true to grade and be uniform in height and line. The contractor shall protect all parts of the bollards and maintain them in an undamaged condition until completion and acceptance of the contract. Any sections damaged at any time prior to final acceptance shall be repaired or replaced at the contractor's expense.

4.0 MEASUREMENT

This work will be measured as the number of bollards properly furnished and installed in accordance with the plans, specifications, manufacturer's recommendations, and directions of the project engineer.

5.0 PAYMENT

The unit price bid shall include the cost of furnishing all labor, tools, equipment, and materials required to satisfactorily assemble and erect the bollards as directed by the project engineer.

<u>Item No.</u>	<u>Pay Item</u>	<u>Pay Unit</u>
NS-700-00011	Bollard	Each

Section 03 - Special Specifications for Pedestrian Bridge

1.0 GENERAL

1.1 Scope

These specifications are for a fully engineered clear span bridge of steel construction and shall be regarded as minimum standards for design and construction. Bridge shall be designed as a CONTECH Connector® (Half-Thru Pratt truss) or approved equal.

1.2 Qualified Suppliers

Each bidder is required to identify their intended bridge supplier as part of the bid submittal. Qualified suppliers must have at least 10 years of experience fabricating these types of structures.

The supplier must provide the following documentation at least seven (7) working days prior to bid:

1. Product Literature

2. All documentation to insure the proposed substitution will be in compliance with these specifications. This shall include:

- Representative design calculations
- Representative drawings
- Splicing and erection procedures
- Warranty information
- Inspection and Maintenance procedures
- AISC Shop Certification
- AWS Certified Fabricator Certification
- Welder Qualifications
- Evidence of 2 Certified Weld Inspectors (CWI's) on staff

3. Proposed suppliers must have at least ten (10) years of experience designing and fabricating these type of structures and a minimum of ten (10) successful bridge projects, of similar construction, each of which has been in service at least seven (7) years. List the location, bridge size, owner, and a contact for reference for each project.

The engineer will evaluate and verify the accuracy of the submittal prior to bid. If the engineer determines that the qualifying criteria have not been met, the proposed supplier shall be rejected.

The engineer's ruling shall be final.

4. The Manufacturer's representative is to attend the project pre-bid and/or pre-construction meeting.

2.0 GENERAL FEATURES OF DESIGN

2.1 Span

Bridge span shall be 80'-0" (straight line dimension) and shall be as measured from each end of the bridge structure (out to out dimension).

2.2 Width

Bridge width shall be 12'-0" clear and shall be as measured from the Inside face of the elements comprising the safety system or truss structural members (chords and verticals)

2.3 Bridge System Type

Bridge shall be designed as a CONTECH Connector® (Half-Thru Pratt truss) or approved equal, that has one diagonal per truss panel and plumb end vertical members. Interior vertical members shall be perpendicular to the chord faces.

2.3.1

Bridge shall be designed utilizing an H-Section configuration where the floor beams are placed up inside the trusses and attached to the truss verticals.

2.3.2

The bridge manufacturer shall determine the distance from the top of the deck to the top and bottom truss members based upon structural and/or shipping requirements.

2.3.3

The top of the top chord shall not be less than 48 inches above the deck (measured from the high point of the riding surface) on bike path structures.

2.4 Member Components

All members of the vertical trusses (top and bottom chords, verticals, and diagonals) shall be fabricated from square and/or rectangular structural steel tubing. Other structural members and bracing shall be fabricated from structural steel shapes or square and rectangular structural steel tubing.

Unless the floor and fastenings are specifically designed to provide adequate lateral support to the top flange of open shape stringers (w-shapes or channels), a minimum of one stiffener shall be provided in each stringer at every floor beam location.

2.5 Attachments

2.5.1 Safety Rails – Horizontal system

Safety rails will consist only of horizontal steel tubes. Horizontal tube safety rails shall be placed on the structure up to a minimum height of 3'-6" above the deck surface. Steel tubing shall be placed so as to

prevent a 4" sphere from passing through the truss up to 3'-6" and an 8" sphere from 3'-6" to 4'-6" above deck surface. Safety rails shall be placed on the inside of the structure. Safety rails placed on the inside of the truss, flush with interior verticals and shall have their ends sealed and ground smooth so as to produce no sharp edges.

The safety rail system shall be designed for an infill loading of 200 pounds, applied horizontally at right angles, to a one square foot area at any point in the system.

2.5.2 Toe Rail

The bridge shall be supplied with a steel channel toe rail with radiused edges mounted to the inside face of both trusses. The toe rail shall be a minimum of 4 inches high. Toe rail shall be welded to the truss members at a height adequate to provide a 2" gap between the bottom of the rail and the top of the deck.

2.5.3 Rub Rails

The bridge shall be supplied with a steel channel rub rail with radiused edges. The steel channel shall be a minimum of 4" high. Ends of each piece shall have their ends sealed and ground smooth so as to produce no sharp edges.

Rub rails shall be welded flush to the inside face of the bridge truss verticals at each support location.

The top of the rub rail shall be 3'-6" above the top of the deck (measured at the outside edge of the deck).

2.6 Camber

The bridge shall have a vertical camber dimension at mid-span equal to 100% of the full dead load deflection plus 1% of the full length of the bridge.

2.7 Elevation Difference

The bridge abutments shall be constructed at the same elevation on both ends of the bridge.

3.0. ENGINEERING

Structural design of the bridge structure shall be performed by or under the direct supervision of a licensed professional engineer and done in accordance with recognized engineering practices and principles. The Licensed Professional Engineer is to hold a current P.E. license in Louisiana.

3.1 Design Loads

In considering design and fabrication issues, this structure shall be assumed to be statically loaded. No dynamic analysis shall be required nor shall fabrication

issues typically considered for dynamically loaded structures be considered for this bridge. The Fracture Critical requirements have been waived, including article 8.2.3 of the AASHTO LRFD Guide Specification for Design of Pedestrian Bridges, December 2009.

3.1.1 Dead Load

The bridge structure design shall consider its own dead load (superstructure and original decking), as well as the additional loads listed below.

3.1.2 Uniform Live Load

3.1.2.1 Pedestrian Live Load

Main Members: Main supporting members shall be designed for a pedestrian live load of 90 pounds per square foot of bridge walkway area. The pedestrian live load shall be applied to those areas of the walkway so as to produce maximum factored load in the member being designed.

3.1.3 Concentrated Loads

The bridge superstructure, floor system and decking shall be designed for each of the following point load conditions:

A four wheeled vehicle with the appropriate wheelbase, tire track and tire print area shall be applied. The vehicle load applied is dependent on the bridge width. Bridge widths 7 feet and lower shall be designed for a 4,000 pound vehicle with a 50% wheel distribution, widths between 7 and including 10 feet shall be designed for an H-5 vehicle load, and widths greater than 10 feet shall be designed for an H-10 vehicle load. Both H-5 and H-10 loads shall be considered with an 80% rear wheel distribution.

A vehicle impact allowance is not required.

3.1.4 Wind Load

3.1.4.1 Horizontal Forces

The bridge shall be designed for a minimum wind load of 35 pounds per square foot on the full vertical projected area of the bridge as if enclosed. Wind load shall be considered in accordance with AASHTO Signs and Luminaires, but in no case will the wind load be taken as less than 35 pounds per square foot. The wind load shall be applied horizontally at right angles to the longitudinal axis of the structure.

The wind loading shall be considered both in the design of the lateral load bracing system and in the design of the truss vertical members, floor beams and their connections.

3.1.4.2 Overturning Forces

The effect of forces tending to overturn structures shall be calculated assuming that the wind direction is at right angles to the longitudinal axis of the structure. In addition, an upward force shall be applied at the windward quarter point of the transverse superstructure width. This force shall be 20 pounds per square foot of deck.

3.1.5 Top Chord/Railing Loads

The top chord, truss verticals, and floor beams shall be designed for lateral wind loads (per section 3.1.4.1) and for any loads required to provide top chord stability as outlined in Section 3.3.6; however, in no case shall the load be less than 50 pounds per lineal foot or a 200 pound point load, whichever produces greater stresses, applied in any direction at any point along the top chord or at the top of the safety system (42" or 54" above deck level), if higher than the top chord.

3.1.6 Load Combinations

The load combinations shall follow AASHTO LRFD "Standard Specifications for Highway Bridges" latest edition. It shall be the responsibility of the foundation engineer to determine any additional loads (i.e. earth pressure, stream force on abutments, wind loads other than those applied perpendicular to the long axis of the bridge, etc.) and load combinations required for design of the abutments.

3.2 Design Limitations

3.2.1 Deflection

3.2.1.1 Vertical Deflection

The vertical deflection of the main trusses due to service pedestrian live load shall not exceed $1/360$ of the span.

The deflection of the floor system members (floor beams and stringers) due to service pedestrian live load shall not exceed $1/360$ of their respective spans.

Deflection limits due to occasional vehicular traffic shall not be considered.

3.2.1.2 Horizontal Deflection

The horizontal deflection of the structure due to lateral wind loads shall not exceed $1/360$ of the span under design wind load.

3.2.2 Vibration

Vibration of the structure shall not cause discomfort or concern to users. Except as specified herein, the fundamental frequency in a

vertical mode without live load shall be greater than 3.0 hertz. In the lateral direction, the fundamental frequency of the bridge shall be greater than 1.3 hertz. If the bridge cannot satisfy these limitations in the vertical direction, the bridge may be proportioned to satisfy the following criteria:

$$f \geq 2.86 \ln (180/w)$$

Where:

f = the fundamental frequency in the vertical direction (Hz)

W = the weight of the supported structure, including only dead load (kips)

From bridge design and fabrication experience, bridges with spans between 90 & 110 feet with concrete decks have exhibited vibration problems. To address this issue, the previous equation is limited and a fundamental frequency of at least 2.6 hertz must be met in the vertical direction when the bridge has a span in the 90 to 100 foot range and a concrete deck.

3.2.3 Minimum Thickness of Metal

The minimum thickness of all structural steel members shall be 1/4" nominal and be in accordance with the AISC Manual of Steel Construction's "Standard Mill Practice Guidelines". For ASTM A500 and ASTM A847 tubing, the section properties used for design shall be per the Steel Tube Institute of North America's Hollow Structural Sections "Dimensions and Section Properties".

3.3 Governing Design Codes/References

Structural members shall be designed in accordance with recognized engineering practices and principles as follows:

3.3.1 Structural Steel

American Association of State Highway and Transportation Officials (AASHTO). Shall be in accordance with "LRFD Guide Specification for the Design of Pedestrian Bridges" latest edition (AASHTO).

3.3.2 Welded Tubular Connections

American Association of State Highway and Transportation Officials / American Welding Society (AASHTO/AWS) and the American Institute of Steel Construction (AISC).

All welded tubular connections shall be checked, when within applicable limits, for the limiting failure modes outlined in AASHTO or in accordance with the "Manual of Steel Construction: LRFD; (Load Resistance Factor Design)" as published by the American Institute of Steel Construction (AISC).

3.3.3 Concrete

American Association of State Highway and Transportation Officials (AASHTO).

Shall be in accordance with AASHTO, "LRFD Bridge Design Specifications", latest edition.

3.3.4 Top Chord Stability

Structural Stability Research Council (SSRC), formerly Column Research Council.

The top chord shall be considered as a column with elastic lateral supports at the panel points. The critical buckling force of the column, so determined, shall exceed the maximum force from dead load and live load (uniform or vehicular) in any panel of the top chord by not less than 50 percent for parallel chord truss bridges or 100 percent for bowstring bridges. The design approach to prevent top chord buckling shall be as outlined by E.C. Holt's research work in conjunction with the Column Research Council on the stability of the top chord of a half-through truss.

For uniformly loaded bridges, the vertical truss members, the floor beams and their connections (transverse frames) shall be proportioned to resist a lateral force of not less than $1/100k$ times the top chord compressive load, but not less than .004 times that top chord load, applied at the top chord panel points of each truss. The top chord load is determined by using the larger top chord axial force in the members on either side of the "U-frame" being analyzed. For end frames, the same concept applies except the transverse force is 1% of the axial load in the end post member.

For bridges with vehicle loads, the lateral force applied at the top chord elevation for design of the transverse frames shall not be less than 1% of the top chord compression due to dead load plus any vehicle loading. The bending forces in the transverse frames, as determined above, act in conjunction with all forces produced by the actual bridge loads as determined by an appropriate analysis which assumes that the floor beams are "fixed" to the trusses at each end.

NOTE: The effects of three dimensional loading (including "U-frame" requirements) shall be considered in the design of the structure. The "U-frame" forces shall be added to the forces derived from a three dimensional analysis of the bridge.

4.0 MATERIALS

4.1 Steel

4.1.1 Unpainted Weathering Steel

Bridges shall be fabricated from high strength, low alloy, atmospheric corrosion resistant ASTM A847 cold-formed welded square and rectangular tubing and/or ASTM A588, or ASTM A242, ASTM A606 plate and structural steel shapes ($F_y = 50,000$ psi). The minimum corrosion index of atmospheric corrosion resistant steel, as determined in accordance with ASTM G101, shall be 6.0.

4.2 Decking

4.2.1 Concrete Deck

The bridge must be furnished with edge deck supports and a stay-in-place galvanized steel form deck suitable for pouring a reinforced concrete slab. The form deck shall be designed to carry the dead load of the wet concrete, weight of the form decking, plus a construction load of 20 PSF uniform load or a 145-pound concentrated load on a 1'-0" wide section of deck. Edge support deflections are limited to $1/180$ of the span or $3/4$ ", whichever is less.

The form deck shall be either smooth or composite. Composite decking shall not be used as reinforcing when designing for vehicular wheel loads. The form deck material shall be supplied in accordance with ASTM A653 and galvanized to a minimum G90 coating weight. The deck slab shall be constructed using normal weight concrete (145 pcf) with a minimum 28- day strength of 4,000 psi.

Concrete deck design shall be performed by the bridge manufacturer. Concrete decks shall be designed for concentrated loads as specified in Section 3.1.3. The wheel loads used for deck design shall be distributed per the Structural Engineering Handbook, 4th Ed., by Gaylord, Gaylord and Stallmeyer. The load distribution width is equal to the tire width plus 0.6 times the slab span but in no case will it be greater than the smallest of the following values:

1. $1/2$ the deck width,
2. 75% of the wheel track spacing, or
3. $4' + 0.06S$, per AASHTO, where S = slab span in feet

5.0 WELDING

5.1 Welding

Welding and weld procedure qualification tests shall conform to the provisions of ANSI/AWS D1.1 "Structural Welding Code", latest edition. Filler metal shall be in accordance with the applicable AWS Filler Metal Specification. For exposed, bare, unpainted applications of corrosion resistant steels (i.e. ASTM A588 and A847), the filler metal shall be in accordance with AWS D1.1.

5.2 Welders

Welders shall be properly certified, each of whom shall submit certification of satisfactorily passing AWS standard qualification tests for all positions with unlimited thickness of base metal, have a minimum of 6 months experience in welding tubular structures and have demonstrated the ability to make uniform sound welds of the type required.

6.0 SUBMITTALS

6.1 Submittal Drawings

Schematic drawings and diagrams shall be submitted to the customer for their review after receipt of order. Submittal drawings shall be unique drawings, prepared to illustrate the specific portion of the work to be done. All relative design information such as member sizes, bridge reactions, and general notes shall be clearly specified on the drawings. Drawings shall have cross referenced details and sheet numbers. All drawings shall be signed and sealed by a Professional Engineer who is licensed in accordance with Section 3.0.

6.2 Structural Calculations

Structural calculations for the bridge superstructure shall be submitted by the bridge manufacturer and reviewed by the approving engineer. All calculations shall be signed and sealed by a Professional Engineer who is licensed in accordance with Section 3.0. The calculations shall include all design information necessary to determine the structural adequacy of the bridge. The calculations shall include the following:

- All AASHTO LRFD checks for axial, bending and shear forces in the critical member of each truss member type (i.e. top chord, bottom chord, floor beam, vertical, etc.).
- Checks for the critical connection failure modes for each truss member type (i.e. vertical, diagonal, floor beam, etc.). Special attention shall be given to all welded tube on tube connections.
- All bolted splice connections.
- Main truss deflection checks.

- U-Frame stiffness checks (used to determine K factors for out-of-plane buckling of the top chord).
- Deck design.

NOTE: The analysis and design of triangulated truss bridges shall account for moments induced in members due to joint fixity where applicable. Moments due to both truss deflection and joint eccentricity must be considered.

6.3 Welder certifications in compliance with AWS standard qualification tests.

6.4 Welding procedures in compliance with Section 5.1.

7.0 FABRICATION

7.1 General Requirements

7.1.1 Drain Holes

When the collection of water inside a structural tube is a possibility, either during construction or during service, the tube shall be provided with a drain hole at its lowest point to let water out.

7.1.2 Welds

Special attention shall be given to developing sufficient weld throats on tubular members. Fillet weld details shall be in accordance with AWS D1.1, Section 3.9.2. Unless determined otherwise by testing, the loss factor "Z" for heel welds shall be in accordance with AWS Table 2.9. Fillet welds which run onto the radius of a tube shall be built up to obtain the full throat thickness. The maximum root openings of fillet welds shall not exceed 3/16" in conformance with AWS D1.1, Section 5.22. Weld size or effective throat dimensions shall be increased in accordance with this same section when applicable (i.e. fit-up gaps > 1/16").

7.2 Quality Certification

Bridge shall be fabricated by a fabricator who is currently certified by the American Institute of Steel Construction to have the personnel, organization, experience, capability, and commitment to produce fabricated structural steel for the category Intermediate "Major Steel Bridges" as set forth in the AISC Certification Program with Fracture Critical Endorsement. Bridge fabricator shall also be currently certified by the American Welding Society (AWS) as an AWS Certified Fabricator. Quality control shall be in accordance with procedures outlined for AISC certification.

7.3 Weld Testing

All weld testing shall be done by a person qualified in accordance with ASNT SNT-TC-1A. All full penetration welds in the chords are to be ultrasonically tested in accordance with AWS specifications. All fillet and partial penetration

groove welds shall be 100 percent visually inspected with 10 percent also being magnetic particle tested in accordance with AWS specifications. A written testing report shall be submitted upon completion.

8.0 FINISHING

8.1 Blast Cleaning

8.1.1

Bare applications of enhanced corrosion resistant steels.

All Blast Cleaning shall be done in a dedicated OSHA approved indoor facility. Blast operations shall use Best Management Practices and exercise environmentally friendly blast media recovery systems.

To aid in providing a uniformly “weathered” appearance, all exposed surfaces of steel shall be blast cleaned in accordance with Steel Structures Painting Council Surface Preparation Specifications No. 7 Brush-Off Blast Cleaning, SSPC-SP7 latest edition.

Exposed surfaces of steel shall be defined as those surfaces seen from the deck and from outside of the structure. Stringers, floor beams, lower brace diagonals and the inside face of the truss below deck and bottom face of the bottom chord need not be blasted.

9.0 STORAGE, DELIVERY AND ERECTION

9.1 Storage

At no additional cost, supplier shall provide a secure storage area for all manufactured bridge materials up to 120 days following fabrication of the final component required for delivery of the complete structure.

9.2 Delivery

Delivery is made to a location nearest the site which is easily accessible to normal over-the-road tractor/trailer equipment. All trucks delivering bridge materials will need to be unloaded at the time of arrival.

9.3 Installation

The manufacturer will provide detailed, written instruction in the proper lifting procedures and splicing procedures (if required). The method and sequence of erection shall be the responsibility of others.

9.4 Splicing

Chord splices shall have loose splice plates that are inserted into the tubular chord members. The splice plates shall have a splice nut retention device consisting of a capture plate(s) with hexagonal holes held in place by either an angle on each side of the capture plate(s) or C channel(s). Tack welding of splice

nuts to splice plates is not acceptable unless an approved Weld Procedure Specification (WPS) can be provided. The sections are then bolted together by bolting through the wall of the tube, nut capture assembly and nut.

9.5 Maintenance

The bridge manufacturer shall provide written inspection and maintenance procedures (operations and maintenance manual) to be followed by the bridge owner.

10.0 BEARINGS

10.1 Bearing Devices

Bridge bearings shall consist of a steel setting or slide plate placed on the abutment or grout pad and a fabric reinforced elastomeric pad with Teflon on top of the setting plate. The bridge bearing plate which is welded to the bridge structure shall have a stainless steel plate welded to bottom side acting as a slide surface and shall bear on bearing pad and setting plate. One end of the bridge will be fixed and will have fully tightened nuts on the anchor bolts. The expansion end will have finger tight only nuts to allow movement under thermal expansion or contraction. Both ends of bridge shall have slotted holes to facilitate installation tolerance.

10.2 Elastomeric Bearings

Bridge shall be supplied with a fabric reinforced elastomeric pad. The bridge bearings shall sit in a recessed pocket on the concrete abutment. The bearing seat shall be a minimum of 16" wide. The step height (from bottom of bearing to top-of-deck) shall be determined by the bridge manufacturer.

Bridges shall have stainless steel on teflon slide bearings placed between the bridge bearing plate and the fabric reinforced elastomeric pad. The top slide plate shall be large enough to cover the lower teflon slide surface at both temperature extremes.

11.0 COVER PLATES

Bridges in excess of 100 feet will be provided with two cover plates (one on each end of bridge). Cover plates shall be hot dipped galvanized and must extend past the gap between the foundation backwall and the end of the bridge.

12.0 FOUNDATIONS

The bridge manufacturer shall be provided the attached abutment foundation drawings included with these specifications.

Information as to bridge support reactions and anchor bolt locations will be furnished by the bridge manufacturer after receipt of order and after the bridge design is complete.

13.0 WARRANTY

The bridge manufacturer shall warrant their steel structure(s) are free of design, material and workmanship defects for a period of ten years from the date of delivery.

This warranty shall not cover defects in the bridge caused by abuse, misuse, overloading, accident, improper installation, maintenance, alteration or any other cause not the result of defective materials or workmanship. This warranty does not cover damage resulting from or relating to the use of any kind of de-icing material. This warranty shall be void unless owner's records can be supplied which shall indicate compliance with the minimum guidelines specified in the inspection and maintenance procedures.

Repair, replacement or adjustment shall be the exclusive remedy for defects under this warranty. The bridge manufacturer shall not be liable for any consequential or incidental damages for breach of any express or implied warranty on their structure.

Any claim under this warranty shall be made promptly and directly to the manufacturer, who shall have the option, at its sole discretion, to repair, replace or adjust any covered defect without charge to the original purchaser.

14.0 APPROVAL CHECKLIST

The following checklist will be used in the evaluation of all submittals to assure compliance with the Special Specifications for Prefabricated Bridge. This checklist is considered the minimum acceptable requirements for compliance with these specifications. Any deviations from this checklist shall be considered grounds for rejection of the submittal. Any costs associated with delays caused by the rejection of the submittal, due to non-compliance with this checklist, shall be fully borne by the bidder and bridge supplier.

SUBMITTAL DRAWINGS

Data Required to be Shown:

- | | |
|---------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------|
| <input type="checkbox"/> Bridge Elevation | <input type="checkbox"/> Weld Failure Checks (Ultimate) |
| <input type="checkbox"/> Bridge Cross Section | <input type="checkbox"/> Local Buckling of the Main Member Face Checks |
| <input type="checkbox"/> All Member Sizes | <input type="checkbox"/> Main Member Yielding Failure Checks |
| <input type="checkbox"/> All Vertical Truss Members are Square or Rectangular Tubing | <input type="checkbox"/> Main Member Crippling Failure Checks |
| <input type="checkbox"/> Bridge Reactions | <input type="checkbox"/> Main Member Buckling Failure Checks |
| <input type="checkbox"/> General Notes Indicating | <input type="checkbox"/> Main Member Shear Failure Checks |
| <input type="checkbox"/> AASHTO LRFD Conformance | <input type="checkbox"/> All Bolted Splice Checks (if applicable) |
| <input type="checkbox"/> Material Specifications to be Followed | <input type="checkbox"/> Main Truss Deflection Checks |
| <input type="checkbox"/> Design Live Load | <input type="checkbox"/> Decking Material Checks |
| <input type="checkbox"/> Design Vehicle Load (If Applicable) | <input type="checkbox"/> "U-Frame" Stiffness Checks (if applicable) |
| <input type="checkbox"/> Design Wind Load | <input type="checkbox"/> Interior and End Portal Design Checks (if applicable) |
| <input type="checkbox"/> Other Specified Design Loads | <input type="checkbox"/> Determination of Top Chord K Factor Based on "U-Frame" Stiffness (if applicable) |
| <input type="checkbox"/> Welding Process | <input type="checkbox"/> Consideration of Individual Member Moments Due to Truss Deflection, Joint Fixity and Joint Eccentricity |
| <input type="checkbox"/> Blast Cleaning | |
| <input type="checkbox"/> Detailed Bolted Splices (If Applicable) | |
| <input type="checkbox"/> Bolted Splice Location (If applicable) | |
| <input type="checkbox"/> Signature and Seal of Professional Engineer, licensed in Accordance with Section 3.0 | |

DESIGN CALCULATIONS

Data Required to be Shown:

- Data Input for 3-D Analysis of Bridge
- Joint Coordinates & Member Incidences
- Joint and Member Loads
- Member Properties
- Load Combinations
- AASHTO LRFD Checks for Each Member Type
- Critical Connection Failure Mode Checks For Each Member Type
- Chord Face Plastification Checks
- Punching Shear Checks
- Material Failure Checks (Truss Webs)
- Weld Failure Checks (Effective Length)

FABRICATION SUBMITTALS

Data Required to be Shown:

- ** Written Installation Instructions
- ** Written Splicing Instructions
- ** Written Maintenance & Inspection Instructions
- ** Welder Certifications
- ** Welding Procedures
- Material Certifications
- Structural Steel
- Decking (if applicable)
- Structural Bolts (if applicable)
- Weld Testing Reports

** NOTE: These items are required to be submitted along with Submittal Drawings and Design Calculations. Those Fabrication Submittal Items not marked are to be submitted prior to shipment of the bridge.

15.0 MEASUREMENT

Pedestrian Bridge will be measured on a lump sum basis, which will be considered as the complete assembly & installation consisting of bridge truss, deck, safety system, anchor bolts, and all associated appendages.

16.0 PAYMENT

Payment for Pedestrian Bridge will be made at the contract lump sum price that includes all labor, materials, equipment, erection and other incidentals necessary to complete the work.

Payment will be made under:

<u>Item No.</u>	<u>Pay Item</u>	<u>Pay Unit</u>
TS-800-00100	Pedestrian Bridge	Lump Sum

Section 04 - Special Specifications for Hand Railing

1.0 DESCRIPTION

This work consists of furnishing and installing hand railing in accordance with the plans. It shall include all labor, materials, and equipment necessary to complete the work.

2.0 MATERIALS

All materials for hand railing shall comply with sections 805, 806, 807, 810 and 811 of the Standard Specifications as applicable, except as noted in the plans.

3.0 CONSTRUCTION REQUIREMENTS

Hand railing fabrication, inspection, and installation shall be done in accordance with the plans, specifications, and as directed by the engineer.

4.0 MEASUREMENT

Hand Railing will be measured by the linear foot (LNFT) of length.

5.0 PAYMENT

Payment for Hand Railing will be made by the linear foot (LNFT) of length at the contract unit price. Payment will be made under:

<u>Item No.</u>	<u>Pay Item</u>	<u>Pay Unit</u>
TS-800-00300	Hand Railing	LNFT

Section 13

PREPARED FOR:



St. Tammany Parish Department of Engineering

TAMMANY TRACE BRIDGE # 24

ST. TAMMANY PARISH, LOUISIANA



PREPARED BY: DANIEL BINET, P.E.



October 2, 2025

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TAMMANY TRACE BRIDGE # 24

ST. TAMMANY PARISH

I.PREFACE

This report serves to document design investigations, computations, and decisions relative to the selection of a hydraulically suitable replacement for the existing 66' long, 12' (clr.) wide timber trestle with asphalt overlay bridge supported on timber piles along Tammany Trace located at Latitude 30.475996, Longitude -90.035432, about 0.21 miles Southwest of Abita Springs, Louisiana in St. Tammany Parish. It is also intended to fulfill the requirements of the Federal Highway Administration FHPM 6-7-3-2, "Location and Hydraulic Design of Encroachments on Flood Plains".

Considering the project feasibility, area of opening, effective width of channel, discharge, and backwater created by the proposed structure for the 25 YR DESIGN discharge of 576 CFS, it is recommended that the existing concrete bridge supported on timber piles be replaced by the following structural selection:

80'-0" Pre-Fabricated Steel Truss Bridge
Proposed Approximate Low Finish Grade: 26.59' (NAVD 88)

TAMMANY TRACE BRIDGE # 24

ST. TAMMANY PARISH

II. GENERAL PROJECT INFORMATION

A. Bridge Location

The subject bridge site is located within St. Tammany Parish, about 0.21 miles Southwest of Abita Springs, Louisiana. The structure is used as a pedestrian & bike path along the Tammany Trace. The location is shown more precisely in Figure 1 (Vicinity Map).

B. Existing Structure

The existing structure is a 5-span, 66-ft long and 12-ft clear width timber trestle bridge with 12" timber piles, and timber bent caps. The structure has been recommended for replacement due to structural deficiency. There appears to be accumulation of debris at this bridge site, but there is no evidence of scouring. The existing bridge site plan and profile are shown in Figures 2 and 3, respectively. The lowest point of the roadway is 25.98' at the surveyed centerline approximately 100' to the east of the existing bridge. The existing low chord elevation of the bridge is 23.26' (NAVD 88) and the lowest finished grade elevation is approximately 26.14' (NAVD 88).

Figure 1 - Vicinity Map of Bridge Site

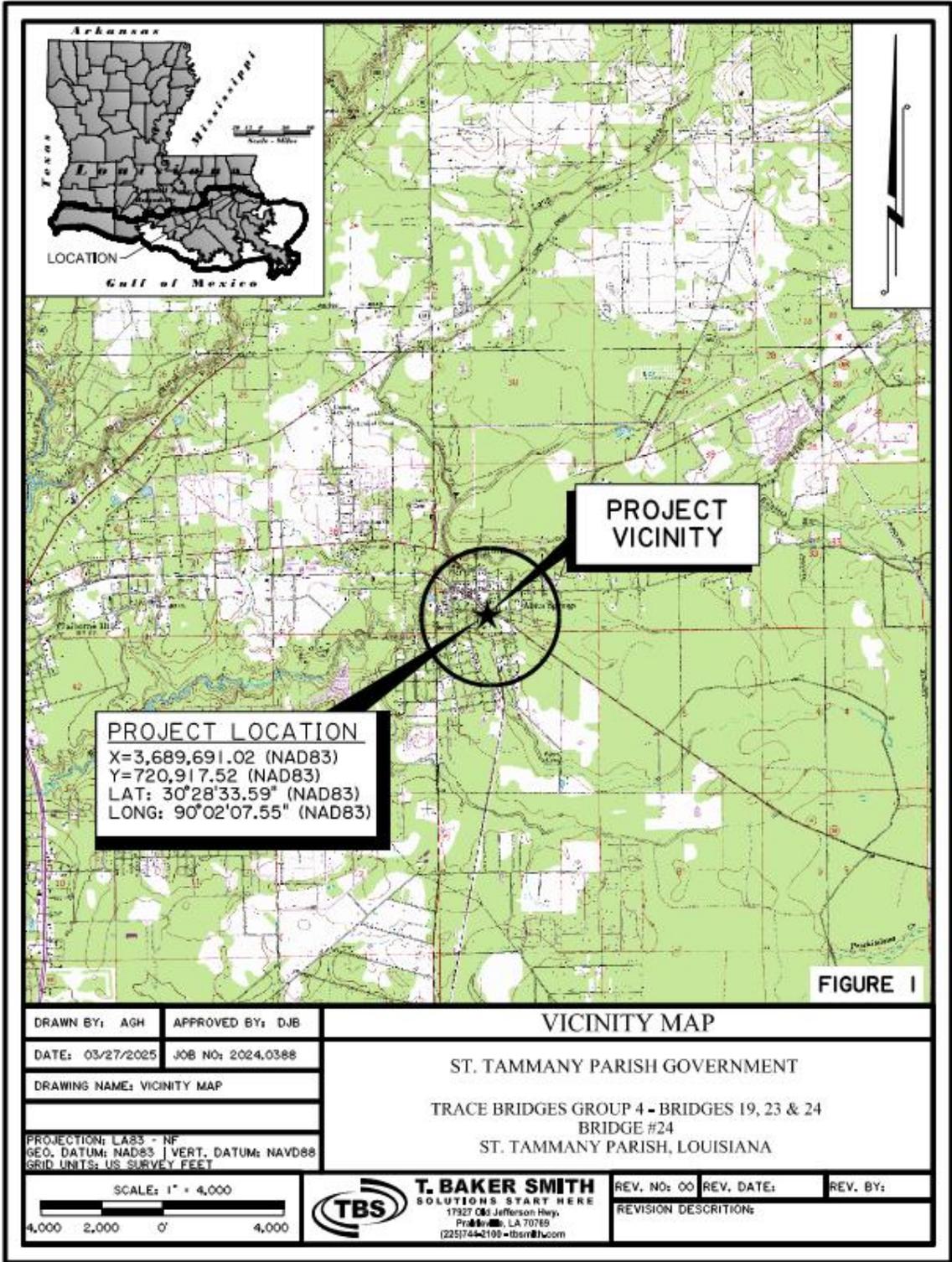


Figure 2 - Existing Bridge Site Plan

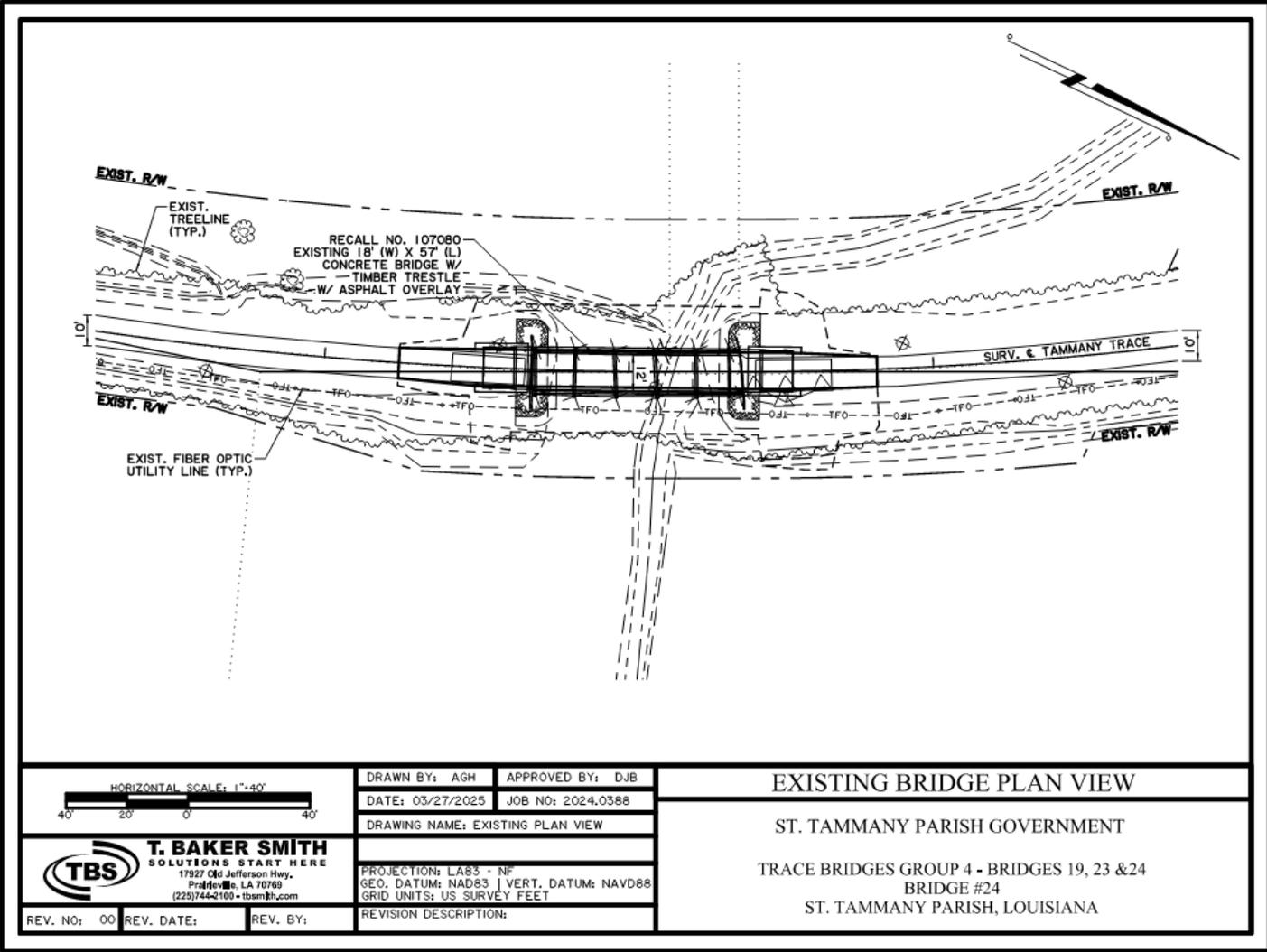
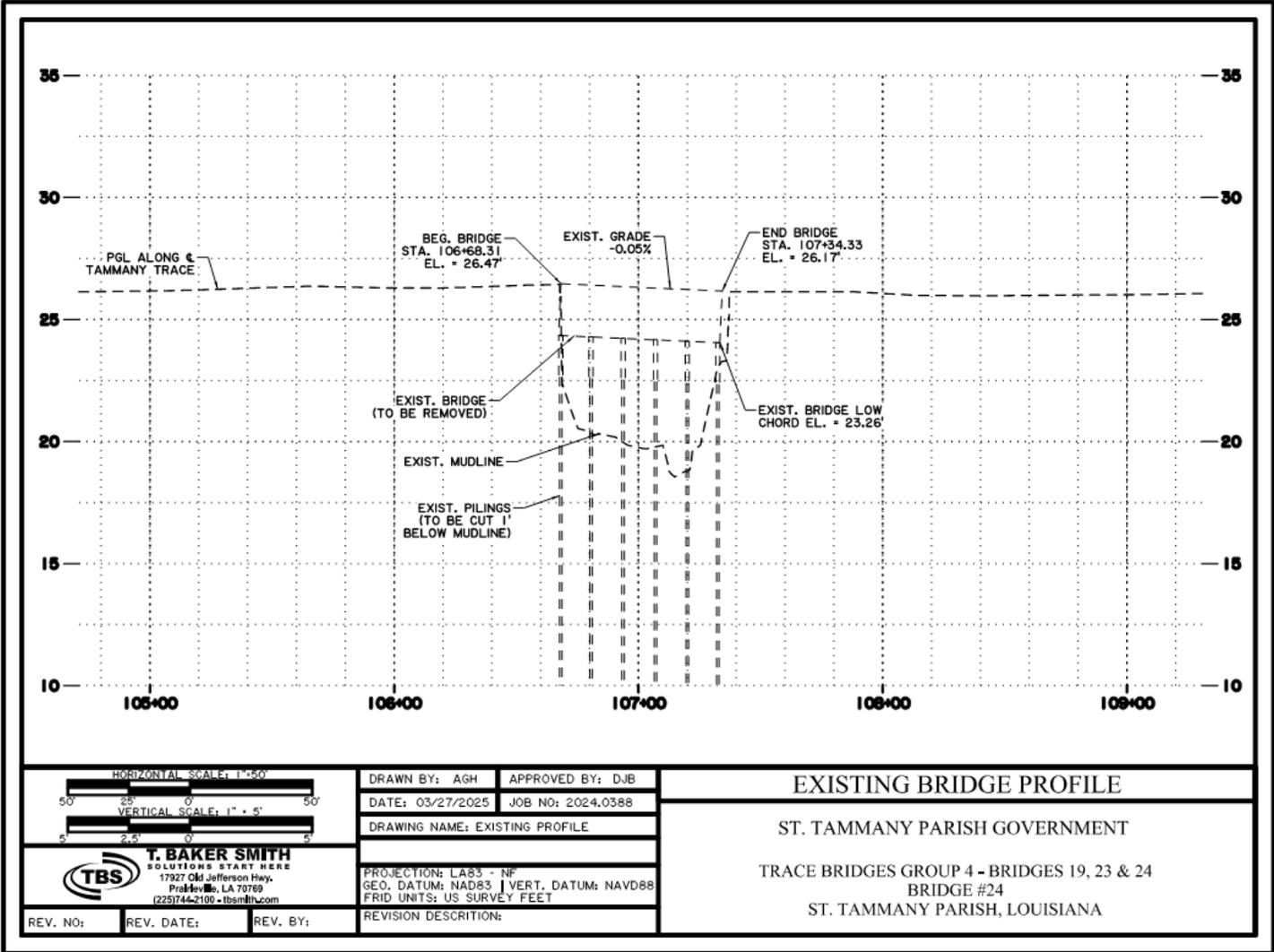


Figure 3 - Existing Bridge Profile



TAMMANY TRACE BRIDGE # 24

ST. TAMMANY PARISH

III. DESIGN CONSIDERATIONS

A. Historical Flood Information

1. FEMA Flood Insurance Study and Rate Maps

According to the effective flood insurance rate map (FIRM) dated 05/17/1988 the proposed bridge site is located in #2201990002C St. Tammany Parish (Eff. 05/17/1988) Areas in Zone AE special flood hazard areas inundated by 100-year flood.

There is a Flood Insurance Study (FIS) for St. Tammany Parish that includes unincorporated areas, but this crossing feature is not included in the detailed study area.

2. Available Gauge Data

No gauge data was found through USGS pertaining to this channel.

B. Coordination with St. Tammany Parish

TBS will coordinate with St. Tammany Parish and review flood and overtopping history in the next stage of analysis to ensure adequate clearance.

C. Potential for Watershed Development

The watershed is mostly rural in nature. Due to the number of residents, any potential development is assumed to be from low density residential, without any significant increase in the density of areas with existing development. No substantial development is expected to take place in the next 20 years that would significantly impact the hydraulics at the bridge.

D. Utility Conflicts

There are no existing utilities attached to the existing bridge. There is also an underground fiberoptic utility line to the east approximately 13' from the centerline of the road. This utility line may need to be relocated to construct the proposed drainage improvements in this area.

E. Detour Distance

There will be no required detour route for the replacement of this bridge.

F. Structure Alignment

As shown in Figure 2, the existing structure intersects the channel at approximately a 90° angle. With minor channel improvements a standard 90° structure could be used for this alignment.

G. Debris/Existing Erosion Problems/Scour Potential

No evidence of active or historical scour was observed beneath the bridge at the existing intermediate bents or abutments during the inspection. Scour, which refers to the localized removal of soil or bed material due to hydraulic forces, can compromise foundation stability if present; however, the absence of such conditions indicates minimal erosive action in proximity to the substructure. Some drift and debris accumulation were identified beneath the bridge, and a more substantial concentration of debris was noted downstream, which suggests periodic flow obstructions. Importantly, scour-related concerns are mitigated for the proposed structure since no piles will be situated within the active channel, eliminating the risk pier scour. A contraction scour model was ran for the proposed structure and no scour is anticipated. For the proposed replacement structure, the design incorporates revetment slopes with a 3:1 configuration extending from the abutments. This slope ratio is consistent with standard hydraulic engineering practices, providing both slope stability and effective channel protection against erosive forces.

H. Design Criteria

The lowest point of the roadway that was in the surveyed area is at an elevation of 25.98' and is approximately 4.66' higher than the high water mark elevation of 21.32' (NAVD 88) as determined by TBS' survey. The bridge is not presumed to have overtopping.

The design storm will be the 25-year flood event. This design storm was chosen since the lowest point of the roadway exceeds the water surface elevation of the 25 year event.

The proposed bridge deck is recommended to be set with a minimum low chord that matches or exceeds the existing low chord. The proposed low chord will be the same as the existing bridge low chord of 23.26'.

The existing bridge is a pedestrian bridge with approximately 12' of clear roadway. The proposed replacement structure will also have 12' clear width and was chosen due to horizontal alignment constraints. The proposed type, size, and location were selected to match that of the completed Jackson Avenue Bridge on the Tammany Trace.

There are no expected hydraulic related design exceptions for the proposed bridge. The DWSE is governed by the water level in the channel, which is generated by a basin of 1.16 square miles.

I. Maintenance of Traffic

This site can be closed during construction; therefore, no diversion bridge will be needed.

TAMMANY TRACE BRIDGE # 24

ST. TAMMANY PARISH

IV. DESIGN ANALYSIS

A. Hydrology

Due to the size of the drainage area studied (1.16 sq.mi.), the USGS method was used to determine the peak discharge of the watershed for the 2, 5, 10, 25, 50, and 100-year storm events. The following paragraphs will summarize how the input data was determined for the project site.

Drainage Basin

The total drainage area for the bridge was determined to be 1.16 sq. mi. The overall hydraulic length is 11,697 ft., the 85% elevation is equal to +34.00', and the 10% elevation is equal to +24.00', resulting in an average watershed slope of 6.02 ft/mi. Elevations used for watershed analysis are from a combination of survey, published quad maps and published LIDAR data.

Land Use

The contributing watershed of the bridge site extends approximately two miles east mostly through wooded areas. The watershed runs west towards the bridge site along through undeveloped land. The northern portion of the area runs along level street in Abita Springs which contains most of the urbanized watershed area. Much of the southern boundary consists primarily of rural and agricultural land with patches of densely wooded areas. The terrain steadily decreases in elevation from the western end of the watershed at about +34' to the bridge site at approximately +24'.

Rainfall

The Region I rainfall for the 24-hour duration at each return period was determined using the LADOTD 2011 Hydraulics Manual, Table 3.4-2 Louisiana Depths (inches) for NRCS method.

Slope

The slope of the channel was determined to be 6.02 ft/mi, which is considered conservative and appropriate for this channel.

Peak Discharge and Flow Distribution

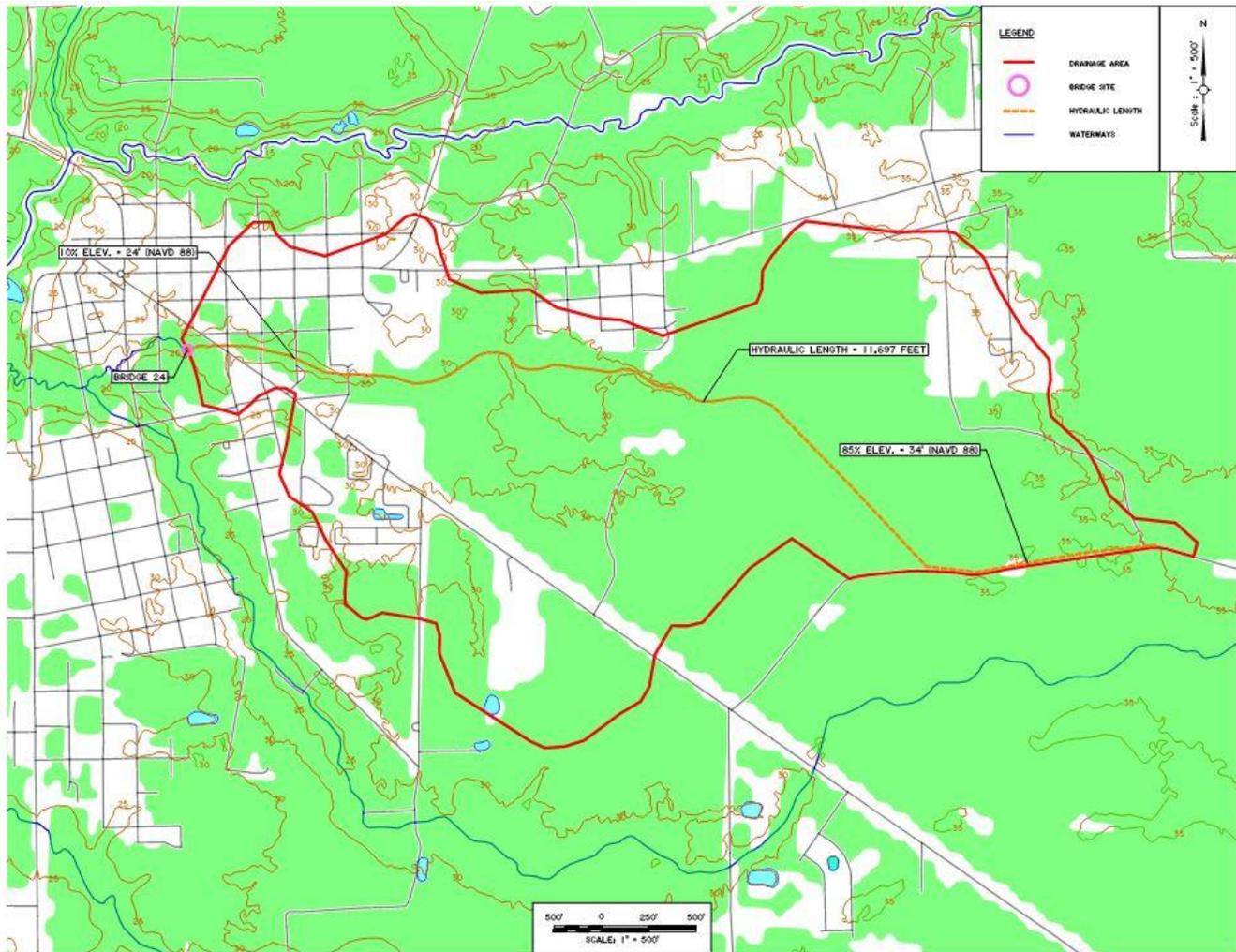
HYDR1130 was used to approximate the peak discharge for the entire watershed using an area of 1.16 sq. mi. and a channel slope of 6.02 ft/mi. The results of this input generated a 25-yr peak discharge of 576 cfs.

The peak discharges found using HYDR1130 Peak Runoff program (USGS method) at the bridge site are summarized below in Table 1. The drainage area map (Figure 4) shows the drainage basin & hydraulic length. The HYDR1130 output is included in Section 1 of Appendix B.

Table 1 – Peak Discharge Summary

HYDR 1130 OUTPUT							
Basin	Area (sq.mi.)	Q ₂ (cfs)	Q ₅ (cfs)	Q ₁₀ (cfs)	Q ₂₅ (cfs)	Q ₅₀ (cfs)	Q ₁₀₀ (cfs)
HYDR1130	1.16	230	348	431	576	661	719

1. Drainage Area Exhibit (Figure 4)



B. Hydraulics

The USACE's GEOHEC-RAS software was used to determine the water surface elevations for the 2, 5, 10, 25, 50, and 100-year events with existing and proposed conditions and to confirm hydrologic assumptions made in the section above. Cross sections from field survey data were used to model channel conditions near the bridge. Additional data came from USGS topographic maps, state LIDAR data, and the FIRM map prepared by FEMA. All elevations were adjusted to NAVD88 conform to field survey data. The floodplain roughness coefficients were estimated from the USGS quadrangle maps, the *LA DOTD Hydraulics Manual*, and the FHWA publication, *Guide for Selecting Manning's Roughness Coefficients for Natural Channels and Flood Plains*.

The model was run locally at the bridge site, using the surveyed cross section data and the discharges calculated by LADOTD HYDR1130.

The peak discharges of the channel (HYDR1130) were utilized in GEOHEC-RAS to review and confirm water surface elevations just upstream of the bridge site. In determining an appropriate low chord elevation of the proposed bridge, the water surface elevation of the 25-year storm found from the GEOHEC-RAS model at the bridge site was considered (22.66').

For proposed conditions, the model was updated to incorporate the geometry of the proposed bridge at the alignment. The channel was surveyed by TBS, and cross sections were performed 15' and 150' upstream and downstream of the bridge site, as well as on the upstream and downstream face of the bridge. In addition to topographic survey data obtained on site, LIDAR data was downloaded from atlas.ga.lsu.edu and imported into GEOHEC-RAS to provide additional data of the adjacent drainage basin. The cross sections described above were used in the GEOHEC-RAS model.

The results of the GEOHEC-RAS model for the existing and proposed bridge can be found in Appendix B of this report. All results within the Hydraulic Data Table were calculated using GEOHEC-RAS.

The existing bridge is a four-span, 66' long structure with 12" timber piles. The proposed bridge will be a 80' Pre-Fabricated Steel Truss Bridge. Piles are not expected to have an effect on backwater conditions as the new bridge will have no piles in the channel.

The GEOHEC-RAS input and output data summarized in the following tables for the existing and proposed bridges are included in Appendix B.

TYPE OF STRUCTURE	DESIGN FLOW	WATER SURFACE ELEVATION NAVD	CONDITION @ UPSTREAM CROSS SECTION 998	BACKWATER
None	348	23.40	Unconstricted 5 YR Design Flow	-
None	576	24.47	Unconstricted 25 YR Design Flow	-
Existing Bridge	348	23.50	Constricted 5 YR Design Flow	0.10
Proposed Bridge	348	22.02	Constricted 5 YR Design Flow	NEGL.
Proposed Bridge	576	22.66	Constricted 25 YR Design Flow	NEGL.

Proposed Low Chord Elevation	Dimension from the Low Concrete to the Finish Grade Elevation	Finish Grade Based on Proposed Low Chord
23.26'	2.83'	26.59'

C. Recommendations

After careful consideration of the different alternates and considering the project feasibility, area of opening, effective width of the existing stream, discharge, and backwater created by the proposed structure for 25 YR DESIGN of 576 CFS, the following structural alternate is recommended for replacing the existing Bridge #24 on the Tammany Trace in St. Tammany Parish:

80'-0" Pre-Fabricated Steel Truss Bridge
Proposed Approximate Finish Grade: 26.59' (NAVD 88)

Bridge Hydraulic Data Table

PARISH PROJECT:	STREAM NAME: N/A
PARISH: St. Tammany Parish	BEGINNING STATION: 106+63.00
RECALL: N/A	FINISHED GRADE (ft/NAVD): 26.59'
PREPARED BY: Daniel Binet, P.E. T. Baker Smith, L.L.C.	BRIDGE LENGTH (FT): 80'
DATE: February 2025	LOW ROADWAY ELEV. (FT): 25.98'

HYDRAULIC DATA TABLE					
Drainage Area (sq.mi.)	1.16				
Channel Slope (ft/mi)	6.02			Predicted Scour	
Flood Frequency (yrs.)	Design Year (25)	Design Year (25)	100	Flood Frequency (yrs.)	500
Discharge (cfs)	576	576	719	Discharge (cfs)	945
Structure	Existing Bridge	Proposed Bridge	Proposed Bridge	Contraction Scour Depth (ft)	0.00
Size & Type	66' (L) x 12' (W)	80' (L) x 12' (W)	80' (L) x 12' (W)	Max. (Pier) Scour Depth (ft)	N/A
Design W. S. El (ft.)	24.96	22.66	22.98	Abutment Scour Depth (ft)	N/A
Average Velocity (ft/sec)	3.10	2.05	2.33		
Area of Opening (sq. ft.)	136.43	327.89	327.89	Bridge Scour Elev. (ft./M.S.L.)	18.55'
Backwater (ft.)	0.10	NEGL.	NEGL.		

REMARKS: The Finish Grade shown is approximate and will be adjusted per finalized Plans

EXISTING BRIDGE: 80' long concrete bridge

DETOUR BRIDGE: Not required.

SCOUR: The proposed bridge site was evaluated, and it was determined that there are no concerns of scour. This is due to the lack of intermediate bents, utilizing riprap at each abutment, and a low channel velocity. When performing the scour calculations, a 500-year flow was used to provide the worst-case scenario which resulted in no contraction scour. The calculation outputs can be found in Appendix D.

V. APPENDICES

Appendix A

Bridge Photographs



Photograph 1 – Looking Upstream from Bridge



Photograph 2 – Looking Downstream from Bridge



Photograph 3 – Bridge Looking North at Bridge



Photograph 4 – Bridge Looking South at Bridge



Photograph 5 – Looking North



Photograph 6 – Bridge Looking South



Photograph 7 – Bridge Looking Downstream



Photograph 8 – Bridge Looking Upstream

Appendix B

Hydraulic Calculations

1. HYDR1130 (USGS) Results

LOUISIANA DEPARTMENT OF TRANSPORTATION AND DEVELOPMENT
HYDRAULICS SECTION
DESIGNER:
REMARKS:

HYDR1130-071498

DATE: 02-20-2025

STATE PROJECT NUMBER 000-00-0000

USGS PEAK DISCHARGE

STATION	1
DRAINAGE AREA (SQ. MI.)	1.16
URBAN ADJUSTMENT RATIO	1.00
SLOPE (FT./MI.)	6.02
MEAN ANNUAL PRECIPITATION (IN.)	62.00

Q2 (CFS)	230.
Q5 (CFS)	348.
Q10 (CFS)	431.
Q25 (CFS)	576.
Q50 (CFS)	661.
Q100 (CFS)	719.

Appendix B

Bridge Hydraulic Calculations

2. Un-Constricted Conditions GEOHEC-RAS Model

Plan: UNCONSTRICTED 24 Channel 24 RS: 998 Profile: Q2

E.G. Elev (ft)	22.75	Element	Left OB	Channel	Right OB
Vel Head (ft)	0.15	Wt. n-Val.	0.160	0.060	0.160
W.S. Elev (ft)	22.60	Reach Len. (ft)	21.37	21.37	21.37
Crit W.S. (ft)		Flow Area (sq ft)	53.68	22.28	11.22
E.G. Slope (ft/ft)	0.025187	Area (sq ft)	53.68	22.28	11.22
Q Total (cfs)	230.00	Flow (cfs)	122.90	91.26	15.83
Top Width (ft)	40.98	Top Width (ft)	22.61	10.11	8.27
Vel Total (ft/s)	2.64	Avg. Vel. (ft/s)	2.29	4.10	1.41
Max Chl Dpth (ft)	3.98	Hydr. Depth (ft)	2.37	2.20	1.36
Conv. Total (cfs)	1449.2	Conv. (cfs)	774.4	575.1	99.8
Length Wtd. (ft)	21.37	Wetted Per. (ft)	41.22	20.95	12.09
Min Ch El (ft)	18.62	Shear (lb/sq ft)	2.05	1.67	1.46
Alpha	1.38	Stream Power (lb/ft s)	4.69	6.85	2.06
Frctn Loss (ft)	0.63	Cum Volume (acre-ft)	0.57	0.16	1.04
C & E Loss (ft)	0.04	Cum SA (acres)	0.48	0.06	1.38

Plan: UNCONSTRICTED 24 Channel 24 RS: 998 Profile: Q5

E.G. Elev (ft)	23.58	Element	Left OB	Channel	Right OB
Vel Head (ft)	0.17	Wt. n-Val.	0.160	0.060	0.160
W.S. Elev (ft)	23.40	Reach Len. (ft)	21.37	21.37	21.37
Crit W.S. (ft)		Flow Area (sq ft)	72.72	31.00	19.63
E.G. Slope (ft/ft)	0.024187	Area (sq ft)	72.72	31.00	19.63
Q Total (cfs)	348.00	Flow (cfs)	178.69	138.46	30.85
Top Width (ft)	49.24	Top Width (ft)	25.04	11.71	12.50
Vel Total (ft/s)	2.82	Avg. Vel. (ft/s)	2.46	4.47	1.57
Max Chl Dpth (ft)	4.78	Hydr. Depth (ft)	2.90	2.65	1.57
Conv. Total (cfs)	2237.6	Conv. (cfs)	1148.9	890.3	198.4
Length Wtd. (ft)	21.37	Wetted Per. (ft)	50.94	24.82	18.22
Min Ch El (ft)	18.62	Shear (lb/sq ft)	2.16	1.89	1.63
Alpha	1.41	Stream Power (lb/ft s)	5.30	8.42	2.56
Frctn Loss (ft)	0.77	Cum Volume (acre-ft)	0.76	0.18	1.57
C & E Loss (ft)	0.08	Cum SA (acres)	0.53	0.06	1.42

Plan: UNCONSTRICTED 24 Channel 24 RS: 998 Profile: Q10

E.G. Elev (ft)	24.02	Element	Left OB	Channel	Right OB
Vel Head (ft)	0.20	Wt. n-Val.	0.160	0.060	0.160
W.S. Elev (ft)	23.82	Reach Len. (ft)	21.37	21.37	21.37
Crit W.S. (ft)		Flow Area (sq ft)	83.50	36.09	25.51
E.G. Slope (ft/ft)	0.025186	Area (sq ft)	83.50	36.09	25.51
Q Total (cfs)	431.00	Flow (cfs)	217.74	172.73	40.53
Top Width (ft)	54.93	Top Width (ft)	26.32	12.55	16.06
Vel Total (ft/s)	2.97	Avg. Vel. (ft/s)	2.61	4.79	1.59
Max Chl Dpth (ft)	5.20	Hydr. Depth (ft)	3.17	2.88	1.59
Conv. Total (cfs)	2715.8	Conv. (cfs)	1372.0	1088.4	255.4
Length Wtd. (ft)	21.37	Wetted Per. (ft)	56.04	26.86	22.88
Min Ch El (ft)	18.62	Shear (lb/sq ft)	2.34	2.11	1.75
Alpha	1.46	Stream Power (lb/ft s)	6.11	10.11	2.79
Frctn Loss (ft)	0.79	Cum Volume (acre-ft)	0.89	0.20	1.89
C & E Loss (ft)	0.08	Cum SA (acres)	0.57	0.06	1.45

Plan: UNCONSTRICTED 24 Channel 24 RS: 998 Profile: Q25

E.G. Elev (ft)	24.78	Element	Left OB	Channel	Right OB
Vel Head (ft)	0.31	Wt. n-Val.	0.160	0.060	0.160
W.S. Elev (ft)	24.47	Reach Len. (ft)	21.37	21.37	21.37
Crit W.S. (ft)		Flow Area (sq ft)	103.41	44.55	37.99
E.G. Slope (ft/ft)	0.034160	Area (sq ft)	103.41	44.55	37.99
Q Total (cfs)	576.00	Flow (cfs)	222.14	272.71	81.15
Top Width (ft)	102.76	Top Width (ft)	42.19	13.29	47.28
Vel Total (ft/s)	3.10	Avg. Vel. (ft/s)	2.15	6.12	2.14
Max Chl Dpth (ft)	5.85	Hydr. Depth (ft)	2.45	3.35	0.80
Conv. Total (cfs)	3116.5	Conv. (cfs)	1201.9	1475.5	439.1
Length Wtd. (ft)	21.37	Wetted Per. (ft)	76.65	28.81	55.05
Min Ch El (ft)	18.62	Shear (lb/sq ft)	2.88	3.30	1.47
Alpha	2.10	Stream Power (lb/ft s)	6.18	20.19	3.14
Frctn Loss (ft)	0.94	Cum Volume (acre-ft)	1.11	0.22	2.41
C & E Loss (ft)	0.08	Cum SA (acres)	0.61	0.06	1.49

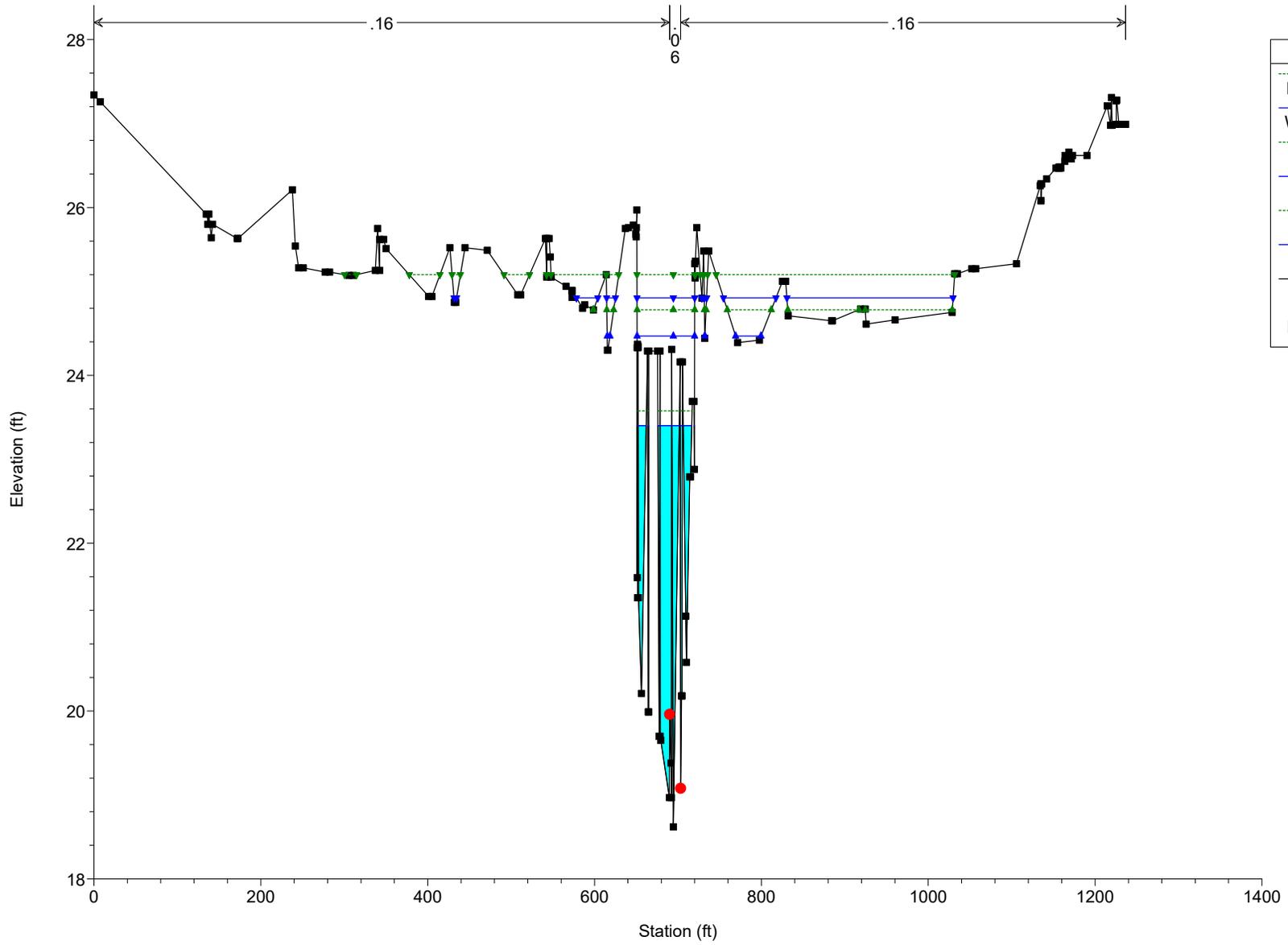
Plan: UNCONSTRICTED 24 Channel 24 RS: 998 Profile: Q50

E.G. Elev (ft)	25.06	Element	Left OB	Channel	Right OB
Vel Head (ft)	0.31	Wt. n-Val.	0.160	0.060	0.160
W.S. Elev (ft)	24.75	Reach Len. (ft)	21.37	21.37	21.37
Crit W.S. (ft)	22.70	Flow Area (sq ft)	115.71	48.23	65.25
E.G. Slope (ft/ft)	0.031907	Area (sq ft)	115.71	48.23	65.25
Q Total (cfs)	661.00	Flow (cfs)	253.80	300.83	106.37
Top Width (ft)	305.01	Top Width (ft)	46.69	13.29	245.03
Vel Total (ft/s)	2.88	Avg. Vel. (ft/s)	2.19	6.24	1.63
Max Chl Dpth (ft)	6.13	Hydr. Depth (ft)	2.48	3.63	0.27
Conv. Total (cfs)	3700.5	Conv. (cfs)	1420.8	1684.1	595.5
Length Wtd. (ft)	21.37	Wetted Per. (ft)	81.46	28.81	253.16
Min Ch El (ft)	18.62	Shear (lb/sq ft)	2.83	3.33	0.51
Alpha	2.40	Stream Power (lb/ft s)	6.21	20.80	0.84
Frctn Loss (ft)	0.90	Cum Volume (acre-ft)	1.23	0.23	2.70
C & E Loss (ft)	0.08	Cum SA (acres)	0.63	0.06	1.55

Plan: UNCONSTRICTED 24 Channel 24 RS: 998 Profile: Q100

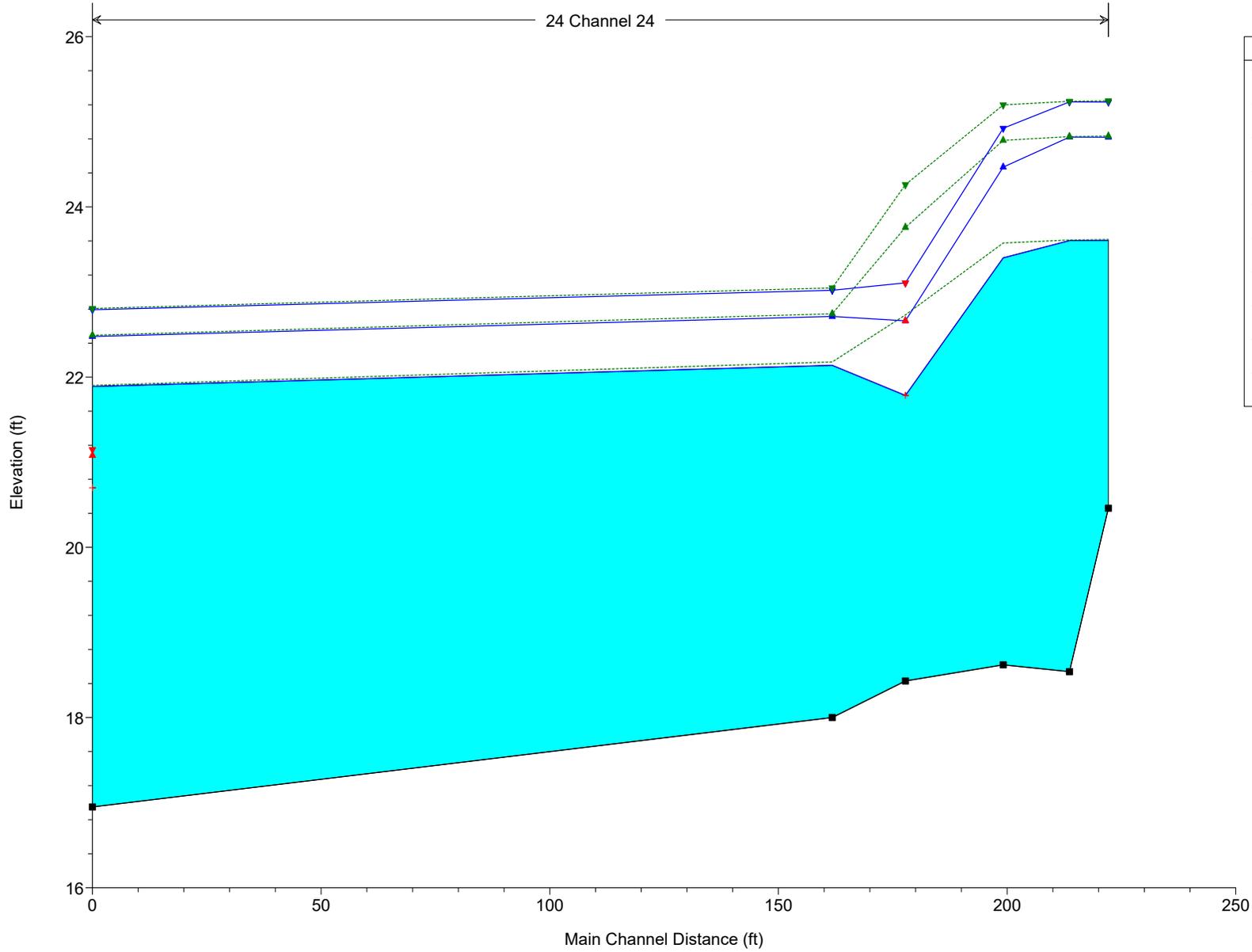
E.G. Elev (ft)	25.20	Element	Left OB	Channel	Right OB
Vel Head (ft)	0.28	Wt. n-Val.	0.160	0.060	0.160
W.S. Elev (ft)	24.92	Reach Len. (ft)	21.37	21.37	21.37
Crit W.S. (ft)		Flow Area (sq ft)	126.73	50.61	113.59
E.G. Slope (ft/ft)	0.028370	Area (sq ft)	126.73	50.61	113.59
Q Total (cfs)	719.00	Flow (cfs)	265.86	307.31	145.83
Top Width (ft)	373.49	Top Width (ft)	78.39	13.29	281.81
Vel Total (ft/s)	2.47	Avg. Vel. (ft/s)	2.10	6.07	1.28
Max Chl Dpth (ft)	6.30	Hydr. Depth (ft)	1.62	3.81	0.40
Conv. Total (cfs)	4268.8	Conv. (cfs)	1578.5	1824.5	865.8
Length Wtd. (ft)	21.37	Wetted Per. (ft)	113.36	28.81	290.21
Min Ch El (ft)	18.62	Shear (lb/sq ft)	1.98	3.11	0.69
Alpha	2.90	Stream Power (lb/ft s)	4.15	18.89	0.89
Frctn Loss (ft)	0.85	Cum Volume (acre-ft)	1.31	0.24	2.89
C & E Loss (ft)	0.09	Cum SA (acres)	0.65	0.06	1.56

HEC-RAS Model Plan: UNCONSTRICTED 2/26/2025



HEC-RAS Model Plan: UNCONSTRICTED 2/26/2025

24 Channel 24



Legend	
EG Q100	—▲—
WS Q100	—▲—
EG Q25	—▲—
WS Q25	—▲—
EG Q5	—▲—
WS Q5	—▲—
Crit Q100	—▲—
Crit Q25	—▲—
Crit Q5	—▲—
Ground	■

Appendix B

Bridge Hydraulic Calculations

3. Existing Conditions GEOHEC-RAS Model

Plan: EXISTING BRIDGE 24 Channel 24 RS: 998 Profile: Q2

E.G. Elev (ft)	22.87	Element	Left OB	Channel	Right OB
Vel Head (ft)	0.13	Wt. n-Val.	0.160	0.060	0.160
W.S. Elev (ft)	22.74	Reach Len. (ft)	1.77	1.77	1.77
Crit W.S. (ft)	21.25	Flow Area (sq ft)	56.85	23.70	12.40
E.G. Slope (ft/ft)	0.021400	Area (sq ft)	56.85	23.70	12.40
Q Total (cfs)	230.00	Flow (cfs)	122.10	91.30	16.60
Top Width (ft)	42.13	Top Width (ft)	23.03	10.38	8.72
Vel Total (ft/s)	2.47	Avg. Vel. (ft/s)	2.15	3.85	1.34
Max Chl Dpth (ft)	4.12	Hydr. Depth (ft)	2.47	2.28	1.42
Conv. Total (cfs)	1572.3	Conv. (cfs)	834.7	624.1	113.5
Length Wtd. (ft)	1.77	Wetted Per. (ft)	42.91	21.62	12.75
Min Ch El (ft)	18.62	Shear (lb/sq ft)	1.77	1.46	1.30
Alpha	1.38	Stream Power (lb/ft s)	3.80	5.64	1.74
Frctn Loss (ft)	0.05	Cum Volume (acre-ft)	0.57	0.16	1.03
C & E Loss (ft)	0.00	Cum SA (acres)	0.48	0.06	1.38

Plan: EXISTING BRIDGE 24 Channel 24 RS: 998 Profile: Q5

E.G. Elev (ft)	23.66	Element	Left OB	Channel	Right OB
Vel Head (ft)	0.16	Wt. n-Val.	0.160	0.060	0.160
W.S. Elev (ft)	23.50	Reach Len. (ft)	1.77	1.77	1.77
Crit W.S. (ft)	21.74	Flow Area (sq ft)	75.19	32.15	20.87
E.G. Slope (ft/ft)	0.021953	Area (sq ft)	75.19	32.15	20.87
Q Total (cfs)	348.00	Flow (cfs)	177.70	138.45	31.85
Top Width (ft)	50.18	Top Width (ft)	25.34	11.91	12.94
Vel Total (ft/s)	2.71	Avg. Vel. (ft/s)	2.36	4.31	1.53
Max Chl Dpth (ft)	4.88	Hydr. Depth (ft)	2.97	2.70	1.61
Conv. Total (cfs)	2348.7	Conv. (cfs)	1199.3	934.4	215.0
Length Wtd. (ft)	1.77	Wetted Per. (ft)	52.13	25.30	18.94
Min Ch El (ft)	18.62	Shear (lb/sq ft)	1.98	1.74	1.51
Alpha	1.42	Stream Power (lb/ft s)	4.67	7.50	2.30
Frctn Loss (ft)	0.05	Cum Volume (acre-ft)	0.76	0.18	1.57
C & E Loss (ft)	0.00	Cum SA (acres)	0.53	0.06	1.42

Plan: EXISTING BRIDGE 24 Channel 24 RS: 998 Profile: Q10

E.G. Elev (ft)	24.12	Element	Left OB	Channel	Right OB
Vel Head (ft)	0.18	Wt. n-Val.	0.160	0.060	0.160
W.S. Elev (ft)	23.93	Reach Len. (ft)	1.77	1.77	1.77
Crit W.S. (ft)	22.02	Flow Area (sq ft)	86.43	37.49	27.30
E.G. Slope (ft/ft)	0.022702	Area (sq ft)	86.43	37.49	27.30
Q Total (cfs)	431.00	Flow (cfs)	216.04	172.45	42.51
Top Width (ft)	55.68	Top Width (ft)	26.66	12.77	16.25
Vel Total (ft/s)	2.85	Avg. Vel. (ft/s)	2.50	4.60	1.56
Max Chl Dpth (ft)	5.31	Hydr. Depth (ft)	3.24	2.94	1.68
Conv. Total (cfs)	2860.5	Conv. (cfs)	1433.8	1144.6	282.1
Length Wtd. (ft)	1.77	Wetted Per. (ft)	57.39	27.39	23.29
Min Ch El (ft)	18.62	Shear (lb/sq ft)	2.13	1.94	1.66
Alpha	1.46	Stream Power (lb/ft s)	5.34	8.92	2.59
Frctn Loss (ft)	0.05	Cum Volume (acre-ft)	0.89	0.20	1.89
C & E Loss (ft)	0.00	Cum SA (acres)	0.57	0.06	1.45

Plan: EXISTING BRIDGE 24 Channel 24 RS: 998 Profile: Q25

E.G. Elev (ft)	25.12	Element	Left OB	Channel	Right OB
Vel Head (ft)	0.17	Wt. n-Val.	0.160	0.060	0.160
W.S. Elev (ft)	24.96	Reach Len. (ft)	1.77	1.77	1.77
Crit W.S. (ft)	22.47	Flow Area (sq ft)	129.66	51.07	123.54
E.G. Slope (ft/ft)	0.017121	Area (sq ft)	129.66	51.07	123.54
Q Total (cfs)	576.00	Flow (cfs)	211.03	242.41	122.56
Top Width (ft)	388.44	Top Width (ft)	89.73	13.29	285.43
Vel Total (ft/s)	1.89	Avg. Vel. (ft/s)	1.63	4.75	0.99
Max Chl Dpth (ft)	6.34	Hydr. Depth (ft)	1.45	3.84	0.43
Conv. Total (cfs)	4402.1	Conv. (cfs)	1612.8	1852.6	936.7
Length Wtd. (ft)	1.77	Wetted Per. (ft)	124.76	28.81	293.88
Min Ch El (ft)	18.62	Shear (lb/sq ft)	1.11	1.89	0.45
Alpha	2.97	Stream Power (lb/ft s)	1.81	8.99	0.45
Frctn Loss (ft)	0.06	Cum Volume (acre-ft)	1.11	0.22	2.41
C & E Loss (ft)	0.02	Cum SA (acres)	0.61	0.05	1.48

Plan: EXISTING BRIDGE 24 Channel 24 RS: 998 Profile: Q50

E.G. Elev (ft)	25.61	Element	Left OB	Channel	Right OB
Vel Head (ft)	0.06	Wt. n-Val.	0.160	0.060	0.160
W.S. Elev (ft)	25.56	Reach Len. (ft)	1.77	1.77	1.77
Crit W.S. (ft)	22.70	Flow Area (sq ft)	285.78	59.02	330.70
E.G. Slope (ft/ft)	0.006770	Area (sq ft)	285.78	59.02	330.70
Q Total (cfs)	661.00	Flow (cfs)	232.32	193.97	234.71
Top Width (ft)	837.32	Top Width (ft)	416.97	13.29	407.05
Vel Total (ft/s)	0.98	Avg. Vel. (ft/s)	0.81	3.29	0.71
Max Chl Dpth (ft)	6.94	Hydr. Depth (ft)	0.69	4.44	0.81
Conv. Total (cfs)	8033.3	Conv. (cfs)	2823.5	2357.4	2852.5
Length Wtd. (ft)	1.77	Wetted Per. (ft)	453.38	28.81	416.31
Min Ch El (ft)	18.62	Shear (lb/sq ft)	0.27	0.87	0.34
Alpha	3.74	Stream Power (lb/ft s)	0.22	2.85	0.24
Frctn Loss (ft)	0.03	Cum Volume (acre-ft)	1.22	0.23	2.69
C & E Loss (ft)	0.04	Cum SA (acres)	0.63	0.05	1.50

Plan: EXISTING BRIDGE 24 Channel 24 RS: 998 Profile: Q100

E.G. Elev (ft)	26.61	Element	Left OB	Channel	Right OB
Vel Head (ft)	0.01	Wt. n-Val.	0.160	0.060	0.160
W.S. Elev (ft)	26.60	Reach Len. (ft)	1.77	1.77	1.77
Crit W.S. (ft)	22.86	Flow Area (sq ft)	852.66	72.90	779.05
E.G. Slope (ft/ft)	0.000985	Area (sq ft)	852.66	72.90	779.05
Q Total (cfs)	719.00	Flow (cfs)	295.74	105.25	318.01
Top Width (ft)	1098.79	Top Width (ft)	620.01	13.29	465.49
Vel Total (ft/s)	0.42	Avg. Vel. (ft/s)	0.35	1.44	0.41
Max Chl Dpth (ft)	7.98	Hydr. Depth (ft)	1.38	5.49	1.67
Conv. Total (cfs)	22903.5	Conv. (cfs)	9420.7	3352.6	10130.2
Length Wtd. (ft)	1.77	Wetted Per. (ft)	657.10	28.81	474.92
Min Ch El (ft)	18.62	Shear (lb/sq ft)	0.08	0.16	0.10
Alpha	2.41	Stream Power (lb/ft s)	0.03	0.22	0.04
Frctn Loss (ft)	0.01	Cum Volume (acre-ft)	1.31	0.24	2.89
C & E Loss (ft)	0.05	Cum SA (acres)	0.64	0.05	1.52

Plan: EXISTING BRIDGE 24 Channel 24 RS: 997.54 Profile: Q2

		Element	Inside BR US	Inside BR DS
E.G. US. (ft)	22.87			
W.S. US. (ft)	22.74	E.G. Elev (ft)	22.82	22.36
Q Total (cfs)	230.00	W.S. Elev (ft)	22.68	21.87
Q Bridge (cfs)	230.00	Crit W.S. (ft)	21.30	21.35
Q Weir (cfs)		Max Chl Dpth (ft)	4.06	3.44
Weir Sta Lft (ft)		Vel Total (ft/s)	2.80	3.84
Weir Sta Rgt (ft)		Flow Area (sq ft)	82.01	59.89
Weir Submerg		Froude # Chl	0.45	0.68
Weir Max Depth (ft)		Specif Force (cu ft)	134.01	107.32
Min EI Weir Flow (ft)	25.99	Hydr Depth (ft)	2.14	1.64
Min EI Prs (ft)	24.33	W.P. Total (ft)	84.86	61.60
Delta EG (ft)	0.79	Conv. Total (cfs)	1275.5	1165.7
Delta WS (ft)	1.20	Top Width (ft)	38.30	36.50
BR Open Area (sq ft)	136.43	Frctn Loss (ft)	0.43	0.28
BR Open Vel (ft/s)	3.84	C & E Loss (ft)	0.04	0.00
BR Sluice Coef		Shear Total (lb/sq ft)	1.96	2.36
BR Sel Method	Energy only	Power Total (lb/ft s)	5.50	9.07

Plan: EXISTING BRIDGE 24 Channel 24 RS: 997.54 Profile: Q5

		Element	Inside BR US	Inside BR DS
E.G. US. (ft)	23.66			
W.S. US. (ft)	23.50	E.G. Elev (ft)	23.61	23.14
Q Total (cfs)	348.00	W.S. Elev (ft)	23.44	22.58
Q Bridge (cfs)	348.00	Crit W.S. (ft)	21.79	22.01
Q Weir (cfs)		Max Chl Dpth (ft)	4.82	4.15
Weir Sta Lft (ft)		Vel Total (ft/s)	3.07	3.90
Weir Sta Rgt (ft)		Flow Area (sq ft)	113.48	89.33
Weir Submerg		Froude # Chl	0.27	0.52
Weir Max Depth (ft)		Specif Force (cu ft)	221.85	181.64
Min EI Weir Flow (ft)	25.99	Hydr Depth (ft)	2.58	1.92
Min EI Prs (ft)	24.33	W.P. Total (ft)	105.88	80.40
Delta EG (ft)	0.93	Conv. Total (cfs)	1918.9	1726.0
Delta WS (ft)	1.71	Top Width (ft)	43.93	46.52
BR Open Area (sq ft)	136.43	Frctn Loss (ft)	0.44	0.37
BR Open Vel (ft/s)	3.90	C & E Loss (ft)	0.04	0.04
BR Sluice Coef		Shear Total (lb/sq ft)	2.20	2.82
BR Sel Method	Energy only	Power Total (lb/ft s)	6.75	10.99

Plan: EXISTING BRIDGE 24 Channel 24 RS: 997.54 Profile: Q10

		Element	Inside BR US	Inside BR DS
E.G. US. (ft)	24.12			
W.S. US. (ft)	23.93	E.G. Elev (ft)	24.06	23.57
Q Total (cfs)	431.00	W.S. Elev (ft)	23.87	22.98
Q Bridge (cfs)	431.00	Crit W.S. (ft)	22.08	22.39
Q Weir (cfs)		Max Chl Dpth (ft)	5.25	4.55
Weir Sta Lft (ft)		Vel Total (ft/s)	3.26	3.97
Weir Sta Rgt (ft)		Flow Area (sq ft)	132.28	108.64
Weir Submerg		Froude # Chl	0.28	0.51
Weir Max Depth (ft)		Specif Force (cu ft)	285.60	236.55
Min EI Weir Flow (ft)	25.99	Hydr Depth (ft)	3.11	2.13
Min EI Prs (ft)	24.33	W.P. Total (ft)	121.12	90.13
Delta EG (ft)	0.97	Conv. Total (cfs)	2300.7	2104.2
Delta WS (ft)	1.80	Top Width (ft)	42.48	51.00
BR Open Area (sq ft)	136.43	Frctn Loss (ft)	0.46	0.38
BR Open Vel (ft/s)	3.97	C & E Loss (ft)	0.04	0.04

Plan: EXISTING BRIDGE 24 Channel 24 RS: 997.54 Profile: Q10 (Continued)

BR Sluice Coef		Shear Total (lb/sq ft)	2.39	3.16
BR Sel Method	Energy only	Power Total (lb/ft s)	7.80	12.52

Plan: EXISTING BRIDGE 24 Channel 24 RS: 997.54 Profile: Q25

E.G. US. (ft)	25.12	Element	Inside BR US	Inside BR DS
W.S. US. (ft)	24.96	E.G. Elev (ft)	25.05	24.21
Q Total (cfs)	576.00	W.S. Elev (ft)	24.73	23.44
Q Bridge (cfs)	576.00	Crit W.S. (ft)	22.53	22.91
Q Weir (cfs)		Max Chl Dpth (ft)	6.11	5.01
Weir Sta Lft (ft)		Vel Total (ft/s)	3.87	4.30
Weir Sta Rgt (ft)		Flow Area (sq ft)	148.68	133.95
Weir Submerg		Froude # Chl	0.32	0.55
Weir Max Depth (ft)		Specif Force (cu ft)	441.37	331.66
Min EI Weir Flow (ft)	25.99	Hydr Depth (ft)		2.78
Min EI Prs (ft)	24.33	W.P. Total (ft)	175.14	115.39
Delta EG (ft)	1.36	Conv. Total (cfs)	1949.6	2527.2
Delta WS (ft)	2.30	Top Width (ft)		48.20
BR Open Area (sq ft)	136.43	Frctn Loss (ft)	0.79	0.42
BR Open Vel (ft/s)	4.30	C & E Loss (ft)	0.04	0.03
BR Sluice Coef		Shear Total (lb/sq ft)	4.63	3.76
BR Sel Method	Energy only	Power Total (lb/ft s)	17.92	16.19

Plan: EXISTING BRIDGE 24 Channel 24 RS: 997.54 Profile: Q50

E.G. US. (ft)	25.61	Element	Inside BR US	Inside BR DS
W.S. US. (ft)	25.56	E.G. Elev (ft)	25.54	24.34
Q Total (cfs)	661.00	W.S. Elev (ft)	25.12	23.21
Q Bridge (cfs)	661.00	Crit W.S. (ft)	22.75	23.21
Q Weir (cfs)		Max Chl Dpth (ft)	6.50	4.78
Weir Sta Lft (ft)		Vel Total (ft/s)	4.45	5.47
Weir Sta Rgt (ft)		Flow Area (sq ft)	148.68	120.87
Weir Submerg		Froude # Chl	0.36	0.69
Weir Max Depth (ft)		Specif Force (cu ft)	524.13	346.68
Min EI Weir Flow (ft)	25.99	Hydr Depth (ft)		2.18
Min EI Prs (ft)	24.33	W.P. Total (ft)	175.14	97.76
Delta EG (ft)	1.54	Conv. Total (cfs)	1949.6	2345.8
Delta WS (ft)	2.62	Top Width (ft)		55.49
BR Open Area (sq ft)	136.43	Frctn Loss (ft)	1.14	
BR Open Vel (ft/s)	5.47	C & E Loss (ft)	0.07	
BR Sluice Coef		Shear Total (lb/sq ft)	6.09	6.13
BR Sel Method	Energy only	Power Total (lb/ft s)	27.08	33.51

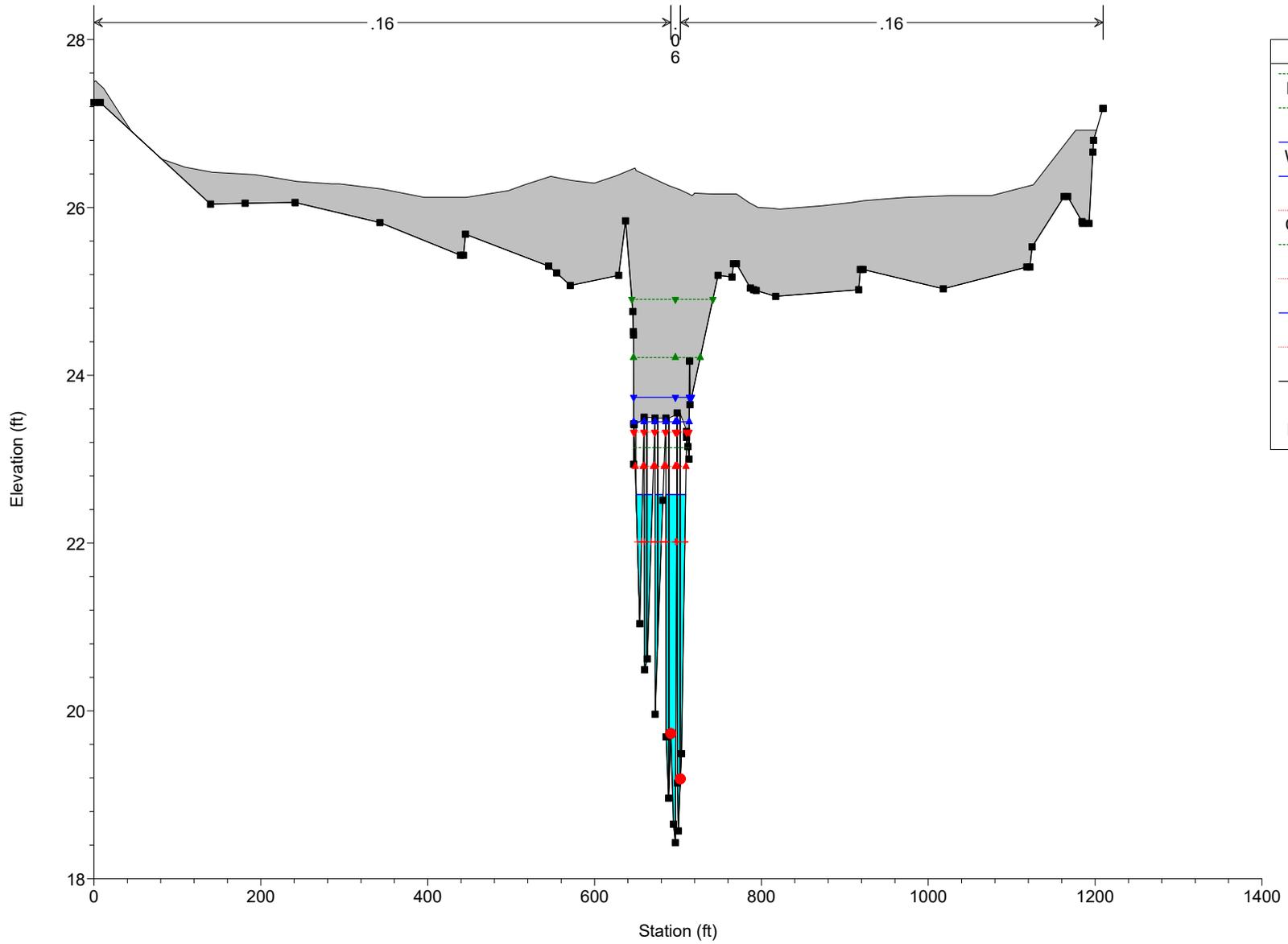
Plan: EXISTING BRIDGE 24 Channel 24 RS: 997.54 Profile: Q100

E.G. US. (ft)	26.61	Element	Inside BR US	Inside BR DS
W.S. US. (ft)	26.60	E.G. Elev (ft)	26.55	24.91
Q Total (cfs)	719.00	W.S. Elev (ft)	26.06	23.74
Q Bridge (cfs)	716.00	Crit W.S. (ft)	22.93	23.32
Q Weir (cfs)		Max Chl Dpth (ft)	7.44	5.31
Weir Sta Lft (ft)		Vel Total (ft/s)	4.64	5.27
Weir Sta Rgt (ft)		Flow Area (sq ft)	155.12	136.43
Weir Submerg		Froude # Chl	0.36	0.66
Weir Max Depth (ft)		Specif Force (cu ft)	681.28	432.67
Min EI Weir Flow (ft)	25.99	Hydr Depth (ft)	1.22	
Min EI Prs (ft)	24.33	W.P. Total (ft)	302.73	165.10

Plan: EXISTING BRIDGE 24 Channel 24 RS: 997.54 Profile: Q100 (Continued)

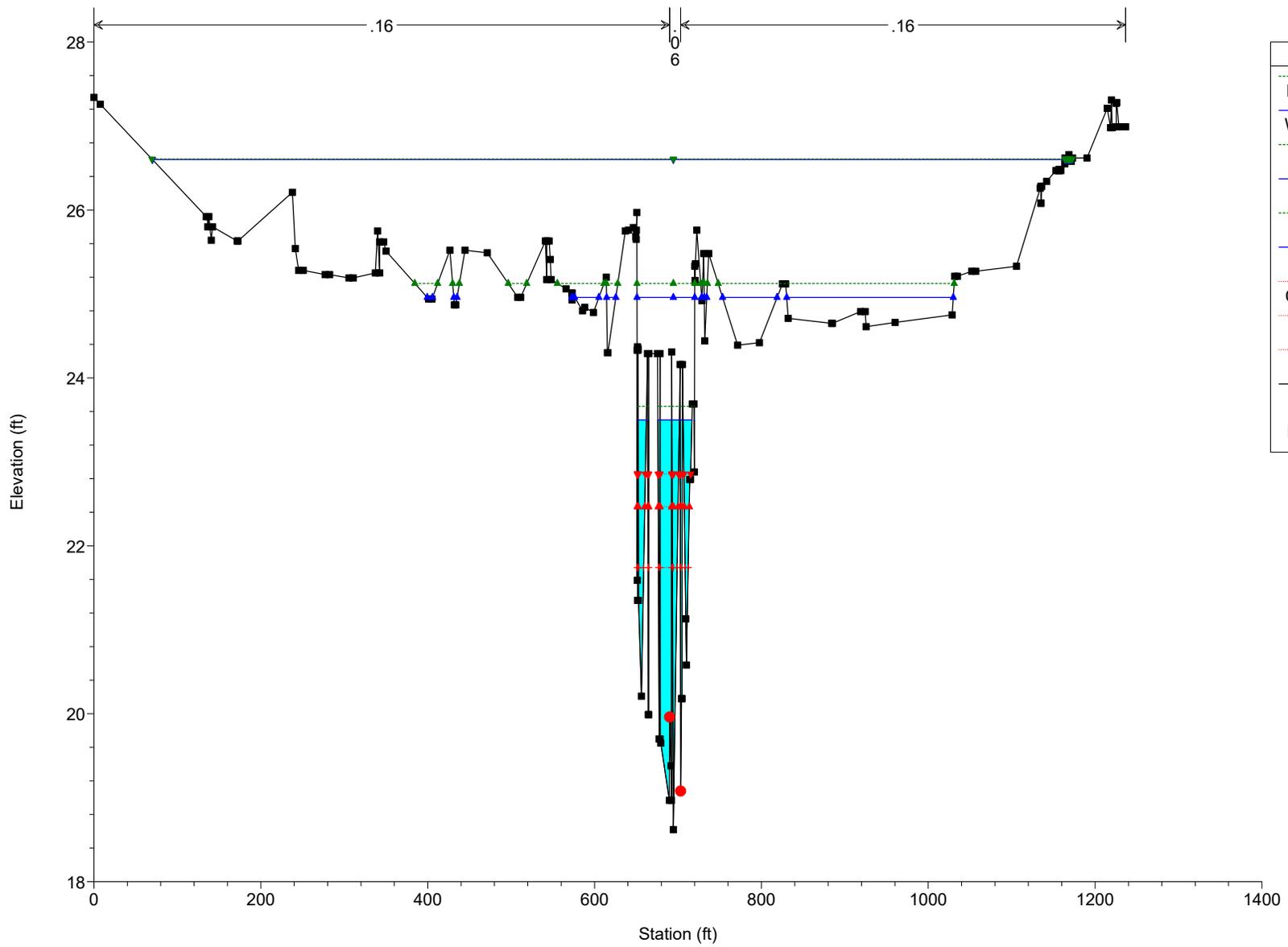
Delta EG (ft)	2.35	Conv. Total (cfs)	1957.7	2004.3
Delta WS (ft)	3.50	Top Width (ft)	127.59	
BR Open Area (sq ft)	136.43	Frctn Loss (ft)	1.58	0.64
BR Open Vel (ft/s)	5.25	C & E Loss (ft)	0.07	0.00
BR Sluice Coef		Shear Total (lb/sq ft)	4.31	6.64
BR Sel Method	Energy only	Power Total (lb/ft s)	20.00	34.99

HEC-RAS Model Plan: EXISTING BRIDGE 2/26/2025



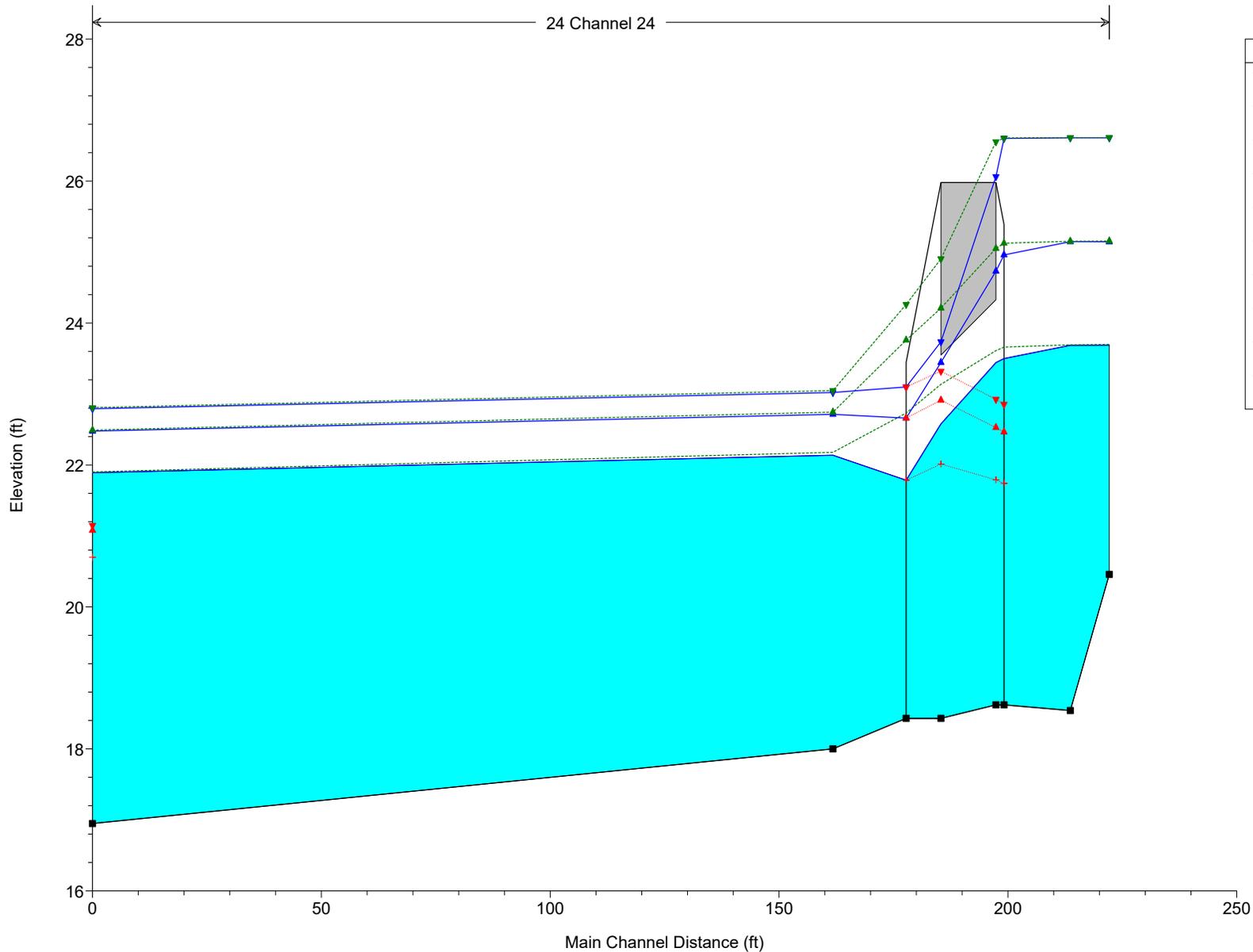
- Legend**
- EG Q100
 - EG Q25
 - WS Q100
 - WS Q25
 - Crit Q100
 - EG Q5
 - Crit Q25
 - WS Q5
 - Crit Q5
 - Ground
 - Bank Sta

HEC-RAS Model Plan: EXISTING BRIDGE 2/26/2025



HEC-RAS Model Plan: EXISTING BRIDGE 2/26/2025

24 Channel 24



Legend	
EG Q100	Green dashed line with inverted triangle
WS Q100	Blue solid line with inverted triangle
EG Q25	Green dashed line with triangle
WS Q25	Blue solid line with triangle
EG Q5	Red dotted line with triangle
WS Q5	Blue solid line with triangle
Crit Q100	Red dotted line with inverted triangle
Crit Q25	Red dotted line with triangle
Crit Q5	Red dotted line with plus sign
Ground	Black solid line with square

Appendix B

Bridge Hydraulic Calculations

4. Proposed Conditions GEOHEC-RAS Model

Plan: PROPOSED BRIDGE 24 Channel 24 RS: 998 Profile: Q2

E.G. Elev (ft)	21.63	Element	Left OB	Channel	Right OB
Vel Head (ft)	0.02	Wt. n-Val.		0.030	
W.S. Elev (ft)	21.61	Reach Len. (ft)	1.77	1.77	1.77
Crit W.S. (ft)	19.37	Flow Area (sq ft)		197.92	
E.G. Slope (ft/ft)	0.000157	Area (sq ft)		197.92	
Q Total (cfs)	230.00	Flow (cfs)		230.00	
Top Width (ft)	76.58	Top Width (ft)		76.58	
Vel Total (ft/s)	1.16	Avg. Vel. (ft/s)		1.16	
Max Chl Dpth (ft)	3.06	Hydr. Depth (ft)		2.58	
Conv. Total (cfs)	18339.4	Conv. (cfs)		18339.4	
Length Wtd. (ft)	1.77	Wetted Per. (ft)		77.35	
Min Ch El (ft)	18.55	Shear (lb/sq ft)		0.03	
Alpha	1.00	Stream Power (lb/ft s)		0.03	
Frctn Loss (ft)	0.00	Cum Volume (acre-ft)	0.40	0.62	0.79
C & E Loss (ft)	0.00	Cum SA (acres)	0.36	0.24	1.29

Plan: PROPOSED BRIDGE 24 Channel 24 RS: 998 Profile: Q5

E.G. Elev (ft)	22.06	Element	Left OB	Channel	Right OB
Vel Head (ft)	0.04	Wt. n-Val.		0.030	
W.S. Elev (ft)	22.02	Reach Len. (ft)	1.77	1.77	1.77
Crit W.S. (ft)	19.62	Flow Area (sq ft)		230.27	
E.G. Slope (ft/ft)	0.000230	Area (sq ft)		230.27	
Q Total (cfs)	348.00	Flow (cfs)		348.00	
Top Width (ft)	79.79	Top Width (ft)		79.79	
Vel Total (ft/s)	1.51	Avg. Vel. (ft/s)		1.51	
Max Chl Dpth (ft)	3.47	Hydr. Depth (ft)		2.89	
Conv. Total (cfs)	22949.7	Conv. (cfs)		22949.7	
Length Wtd. (ft)	1.77	Wetted Per. (ft)		80.67	
Min Ch El (ft)	18.55	Shear (lb/sq ft)		0.04	
Alpha	1.00	Stream Power (lb/ft s)		0.06	
Frctn Loss (ft)	0.00	Cum Volume (acre-ft)	0.55	0.72	1.32
C & E Loss (ft)	0.00	Cum SA (acres)	0.39	0.25	1.37

Plan: PROPOSED BRIDGE 24 Channel 24 RS: 998 Profile: Q10

E.G. Elev (ft)	22.32	Element	Left OB	Channel	Right OB
Vel Head (ft)	0.05	Wt. n-Val.	0.160	0.030	0.160
W.S. Elev (ft)	22.27	Reach Len. (ft)	1.77	1.77	1.77
Crit W.S. (ft)	19.78	Flow Area (sq ft)	0.03	249.92	0.03
E.G. Slope (ft/ft)	0.000269	Area (sq ft)	0.03	249.92	0.03
Q Total (cfs)	431.00	Flow (cfs)	0.00	431.00	0.00
Top Width (ft)	80.53	Top Width (ft)	0.29	80.00	0.24
Vel Total (ft/s)	1.72	Avg. Vel. (ft/s)	0.03	1.72	0.03
Max Chl Dpth (ft)	3.72	Hydr. Depth (ft)	0.11	3.12	0.11
Conv. Total (cfs)	26260.7	Conv. (cfs)	0.1	26260.6	0.0
Length Wtd. (ft)	1.77	Wetted Per. (ft)	0.36	80.89	0.32
Min Ch El (ft)	18.55	Shear (lb/sq ft)	0.00	0.05	0.00
Alpha	1.00	Stream Power (lb/ft s)	0.00	0.09	0.00
Frctn Loss (ft)	0.00	Cum Volume (acre-ft)	0.64	0.77	1.64
C & E Loss (ft)	0.00	Cum SA (acres)	0.42	0.25	1.40

Plan: PROPOSED BRIDGE 24 Channel 24 RS: 998 Profile: Q25

E.G. Elev (ft)	22.72	Element	Left OB	Channel	Right OB
Vel Head (ft)	0.07	Wt. n-Val.	0.160	0.030	0.160
W.S. Elev (ft)	22.66	Reach Len. (ft)	1.77	1.77	1.77
Crit W.S. (ft)	20.03	Flow Area (sq ft)	0.24	280.92	0.20
E.G. Slope (ft/ft)	0.000326	Area (sq ft)	0.24	280.92	0.20
Q Total (cfs)	576.00	Flow (cfs)	0.02	575.97	0.01
Top Width (ft)	81.47	Top Width (ft)	0.81	80.00	0.66
Vel Total (ft/s)	2.05	Avg. Vel. (ft/s)	0.07	2.05	0.06
Max Chl Dpth (ft)	4.11	Hydr. Depth (ft)	0.30	3.51	0.30
Conv. Total (cfs)	31911.1	Conv. (cfs)	0.9	31909.6	0.7
Length Wtd. (ft)	1.77	Wetted Per. (ft)	1.01	80.89	0.90
Min Ch El (ft)	18.55	Shear (lb/sq ft)	0.00	0.07	0.00
Alpha	1.00	Stream Power (lb/ft s)	0.00	0.14	0.00
Frctn Loss (ft)	0.00	Cum Volume (acre-ft)	0.80	0.86	2.15
C & E Loss (ft)	0.00	Cum SA (acres)	0.46	0.25	1.44

Plan: PROPOSED BRIDGE 24 Channel 24 RS: 998 Profile: Q50

E.G. Elev (ft)	22.93	Element	Left OB	Channel	Right OB
Vel Head (ft)	0.08	Wt. n-Val.	0.160	0.030	0.160
W.S. Elev (ft)	22.86	Reach Len. (ft)	1.77	1.77	1.77
Crit W.S. (ft)	20.17	Flow Area (sq ft)	0.43	296.87	0.35
E.G. Slope (ft/ft)	0.000357	Area (sq ft)	0.43	296.87	0.35
Q Total (cfs)	661.00	Flow (cfs)	0.04	660.94	0.03
Top Width (ft)	81.95	Top Width (ft)	1.07	80.00	0.88
Vel Total (ft/s)	2.22	Avg. Vel. (ft/s)	0.08	2.23	0.08
Max Chl Dpth (ft)	4.31	Hydr. Depth (ft)	0.40	3.71	0.40
Conv. Total (cfs)	34990.1	Conv. (cfs)	1.9	34986.7	1.5
Length Wtd. (ft)	1.77	Wetted Per. (ft)	1.34	80.89	1.19
Min Ch El (ft)	18.55	Shear (lb/sq ft)	0.01	0.08	0.01
Alpha	1.01	Stream Power (lb/ft s)	0.00	0.18	0.00
Frctn Loss (ft)	0.00	Cum Volume (acre-ft)	0.89	0.91	2.42
C & E Loss (ft)	0.00	Cum SA (acres)	0.48	0.25	1.45

Plan: PROPOSED BRIDGE 24 Channel 24 RS: 998 Profile: Q100

E.G. Elev (ft)	23.07	Element	Left OB	Channel	Right OB
Vel Head (ft)	0.09	Wt. n-Val.	0.160	0.030	0.160
W.S. Elev (ft)	22.98	Reach Len. (ft)	1.77	1.77	1.77
Crit W.S. (ft)	20.26	Flow Area (sq ft)	0.58	307.12	0.48
E.G. Slope (ft/ft)	0.000377	Area (sq ft)	0.58	307.12	0.48
Q Total (cfs)	719.00	Flow (cfs)	0.05	718.90	0.04
Top Width (ft)	82.26	Top Width (ft)	1.24	80.00	1.02
Vel Total (ft/s)	2.33	Avg. Vel. (ft/s)	0.09	2.34	0.09
Max Chl Dpth (ft)	4.43	Hydr. Depth (ft)	0.47	3.84	0.47
Conv. Total (cfs)	37027.0	Conv. (cfs)	2.8	37022.0	2.2
Length Wtd. (ft)	1.77	Wetted Per. (ft)	1.56	80.89	1.38
Min Ch El (ft)	18.55	Shear (lb/sq ft)	0.01	0.09	0.01
Alpha	1.01	Stream Power (lb/ft s)	0.00	0.21	0.00
Frctn Loss (ft)	0.00	Cum Volume (acre-ft)	0.95	0.94	2.60
C & E Loss (ft)	0.00	Cum SA (acres)	0.49	0.25	1.46

Plan: PROPOSED BRIDGE 24 Channel 24 RS: 997.54 Profile: Q2

		Element	Inside BR US	Inside BR DS
E.G. US. (ft)	21.63			
W.S. US. (ft)	21.61	E.G. Elev (ft)	21.63	21.58
Q Total (cfs)	230.00	W.S. Elev (ft)	21.61	21.56
Q Bridge (cfs)	230.00	Crit W.S. (ft)	19.35	19.35
Q Weir (cfs)		Max Chl Dpth (ft)	3.06	3.01
Weir Sta Lft (ft)		Vel Total (ft/s)	1.15	1.17
Weir Sta Rgt (ft)		Flow Area (sq ft)	200.10	196.24
Weir Submerg		Froude # Chl	0.12	0.13
Weir Max Depth (ft)		Specif Force (cu ft)	298.59	288.39
Min EI Weir Flow (ft)	25.99	Hydr Depth (ft)	2.71	2.66
Min EI Prs (ft)	23.26	W.P. Total (ft)	75.19	75.09
Delta EG (ft)	0.06	Conv. Total (cfs)	3568.7	3457.8
Delta WS (ft)	0.06	Top Width (ft)	73.78	73.78
BR Open Area (sq ft)	327.89	Frctn Loss (ft)	0.05	0.00
BR Open Vel (ft/s)	1.17	C & E Loss (ft)	0.00	0.00
BR Sluice Coef		Shear Total (lb/sq ft)	0.69	0.72
BR Sel Method	Energy only	Power Total (lb/ft s)	0.79	0.85

Plan: PROPOSED BRIDGE 24 Channel 24 RS: 997.54 Profile: Q5

		Element	Inside BR US	Inside BR DS
E.G. US. (ft)	22.06			
W.S. US. (ft)	22.02	E.G. Elev (ft)	22.06	21.98
Q Total (cfs)	348.00	W.S. Elev (ft)	22.02	21.95
Q Bridge (cfs)	348.00	Crit W.S. (ft)	19.60	19.60
Q Weir (cfs)		Max Chl Dpth (ft)	3.47	3.40
Weir Sta Lft (ft)		Vel Total (ft/s)	1.51	1.55
Weir Sta Rgt (ft)		Flow Area (sq ft)	230.58	224.89
Weir Submerg		Froude # Chl	0.15	0.16
Weir Max Depth (ft)		Specif Force (cu ft)	395.65	378.50
Min EI Weir Flow (ft)	25.99	Hydr Depth (ft)	3.13	3.05
Min EI Prs (ft)	23.26	W.P. Total (ft)	76.02	75.87
Delta EG (ft)	0.08	Conv. Total (cfs)	4486.9	4309.8
Delta WS (ft)	0.08	Top Width (ft)	73.78	73.78
BR Open Area (sq ft)	327.89	Frctn Loss (ft)	0.08	0.01
BR Open Vel (ft/s)	1.55	C & E Loss (ft)	0.00	0.00
BR Sluice Coef		Shear Total (lb/sq ft)	1.14	1.21
BR Sel Method	Energy only	Power Total (lb/ft s)	1.72	1.87

Plan: PROPOSED BRIDGE 24 Channel 24 RS: 997.54 Profile: Q10

		Element	Inside BR US	Inside BR DS
E.G. US. (ft)	22.32			
W.S. US. (ft)	22.27	E.G. Elev (ft)	22.31	22.22
Q Total (cfs)	431.00	W.S. Elev (ft)	22.27	22.17
Q Bridge (cfs)	431.00	Crit W.S. (ft)	19.76	19.76
Q Weir (cfs)		Max Chl Dpth (ft)	3.72	3.62
Weir Sta Lft (ft)		Vel Total (ft/s)	1.73	1.78
Weir Sta Rgt (ft)		Flow Area (sq ft)	248.65	241.73
Weir Submerg		Froude # Chl	0.17	0.17
Weir Max Depth (ft)		Specif Force (cu ft)	461.24	438.90
Min EI Weir Flow (ft)	25.99	Hydr Depth (ft)	3.37	3.28
Min EI Prs (ft)	23.26	W.P. Total (ft)	76.51	76.32
Delta EG (ft)	0.10	Conv. Total (cfs)	5066.5	4841.6
Delta WS (ft)	0.10	Top Width (ft)	73.78	73.78
BR Open Area (sq ft)	327.89	Frctn Loss (ft)	0.09	0.01
BR Open Vel (ft/s)	1.78	C & E Loss (ft)	0.00	0.00

Plan: PROPOSED BRIDGE 24 Channel 24 RS: 997.54 Profile: Q10 (Continued)

BR Sluice Coef		Shear Total (lb/sq ft)	1.47	1.57
BR Sel Method	Energy only	Power Total (lb/ft s)	2.55	2.79

Plan: PROPOSED BRIDGE 24 Channel 24 RS: 997.54 Profile: Q25

E.G. US. (ft)	22.72	Element	Inside BR US	Inside BR DS
W.S. US. (ft)	22.66	E.G. Elev (ft)	22.72	22.60
Q Total (cfs)	576.00	W.S. Elev (ft)	22.65	22.52
Q Bridge (cfs)	576.00	Crit W.S. (ft)	20.01	20.01
Q Weir (cfs)		Max Chl Dpth (ft)	4.10	3.97
Weir Sta Lft (ft)		Vel Total (ft/s)	2.06	2.14
Weir Sta Rgt (ft)		Flow Area (sq ft)	279.40	268.99
Weir Submerg		Froude # Chl	0.18	0.19
Weir Max Depth (ft)		Specif Force (cu ft)	577.03	542.80
Min EI Weir Flow (ft)	25.99	Hydr Depth (ft)	3.49	3.36
Min EI Prs (ft)	23.26	W.P. Total (ft)	83.52	83.27
Delta EG (ft)	0.13	Conv. Total (cfs)	5837.6	5479.8
Delta WS (ft)	0.14	Top Width (ft)	80.02	80.02
BR Open Area (sq ft)	327.89	Frctn Loss (ft)	0.12	0.01
BR Open Vel (ft/s)	2.14	C & E Loss (ft)	0.00	0.00
BR Sluice Coef		Shear Total (lb/sq ft)	2.03	2.23
BR Sel Method	Energy only	Power Total (lb/ft s)	4.19	4.77

Plan: PROPOSED BRIDGE 24 Channel 24 RS: 997.54 Profile: Q50

E.G. US. (ft)	22.93	Element	Inside BR US	Inside BR DS
W.S. US. (ft)	22.86	E.G. Elev (ft)	22.93	22.79
Q Total (cfs)	661.00	W.S. Elev (ft)	22.85	22.71
Q Bridge (cfs)	661.00	Crit W.S. (ft)	20.14	20.14
Q Weir (cfs)		Max Chl Dpth (ft)	4.30	4.16
Weir Sta Lft (ft)		Vel Total (ft/s)	2.24	2.33
Weir Sta Rgt (ft)		Flow Area (sq ft)	295.34	283.85
Weir Submerg		Froude # Chl	0.19	0.20
Weir Max Depth (ft)		Specif Force (cu ft)	643.34	603.63
Min EI Weir Flow (ft)	25.99	Hydr Depth (ft)	3.69	3.55
Min EI Prs (ft)	23.26	W.P. Total (ft)	83.92	83.64
Delta EG (ft)	0.15	Conv. Total (cfs)	6402.9	5993.3
Delta WS (ft)	0.15	Top Width (ft)	80.01	80.02
BR Open Area (sq ft)	327.89	Frctn Loss (ft)	0.14	0.01
BR Open Vel (ft/s)	2.33	C & E Loss (ft)	0.00	0.00
BR Sluice Coef		Shear Total (lb/sq ft)	2.34	2.58
BR Sel Method	Energy only	Power Total (lb/ft s)	5.24	6.00

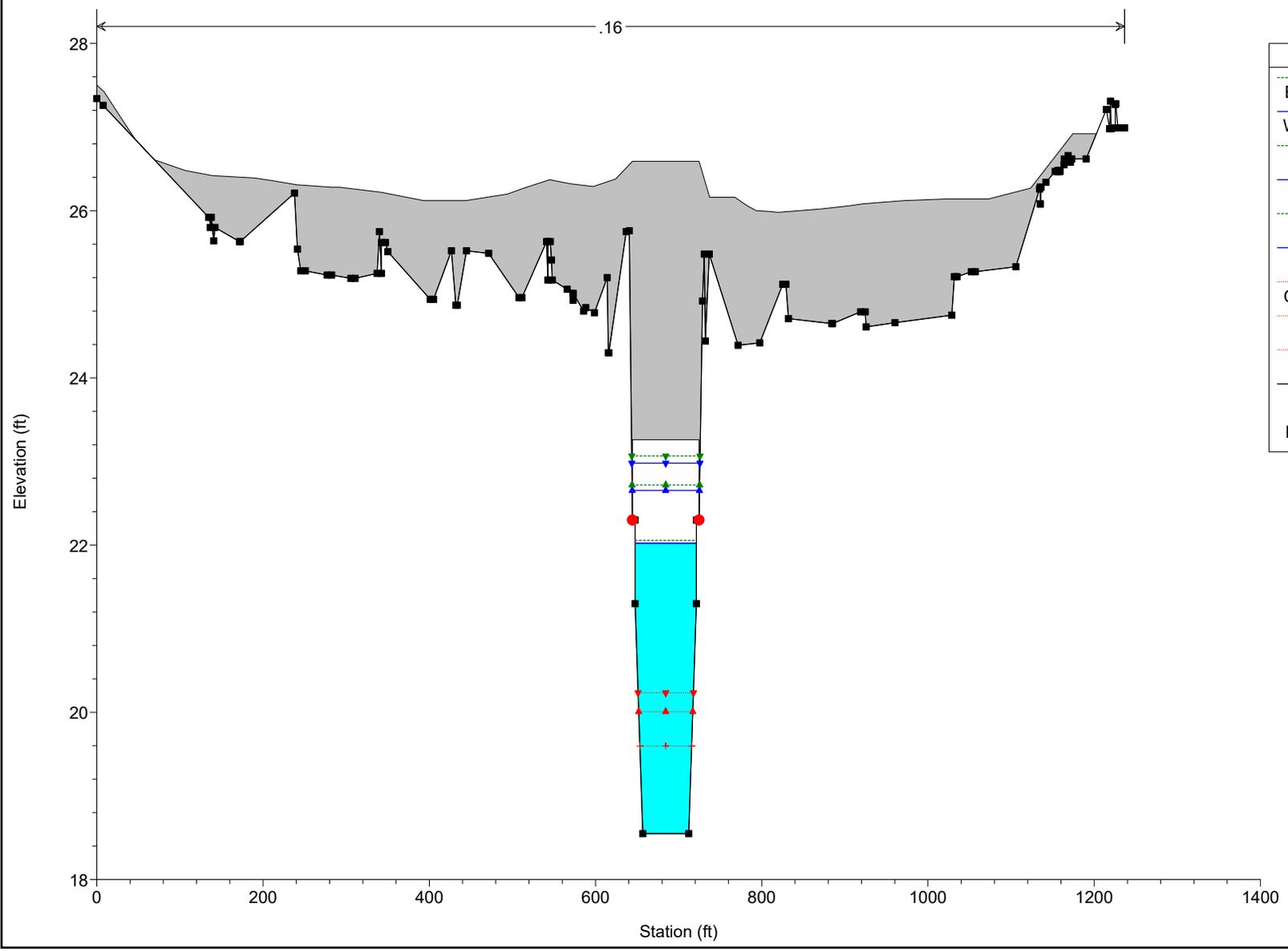
Plan: PROPOSED BRIDGE 24 Channel 24 RS: 997.54 Profile: Q100

E.G. US. (ft)	23.07	Element	Inside BR US	Inside BR DS
W.S. US. (ft)	22.98	E.G. Elev (ft)	23.07	22.92
Q Total (cfs)	719.00	W.S. Elev (ft)	22.98	22.83
Q Bridge (cfs)	719.00	Crit W.S. (ft)	20.23	20.23
Q Weir (cfs)		Max Chl Dpth (ft)	4.43	4.28
Weir Sta Lft (ft)		Vel Total (ft/s)	2.35	2.45
Weir Sta Rgt (ft)		Flow Area (sq ft)	305.57	293.37
Weir Submerg		Froude # Chl	0.20	0.21
Weir Max Depth (ft)		Specif Force (cu ft)	688.36	644.89
Min EI Weir Flow (ft)	25.99	Hydr Depth (ft)	3.82	3.67
Min EI Prs (ft)	23.26	W.P. Total (ft)	84.17	83.88

Plan: PROPOSED BRIDGE 24 Channel 24 RS: 997.54 Profile: Q100 (Continued)

Delta EG (ft)	0.16	Conv. Total (cfs)	6776.8	6332.0
Delta WS (ft)	0.16	Top Width (ft)	80.01	80.01
BR Open Area (sq ft)	327.89	Frctn Loss (ft)	0.14	0.01
BR Open Vel (ft/s)	2.45	C & E Loss (ft)	0.00	0.00
BR Sluice Coef		Shear Total (lb/sq ft)	2.55	2.82
BR Sel Method	Energy only	Power Total (lb/ft s)	6.00	6.90

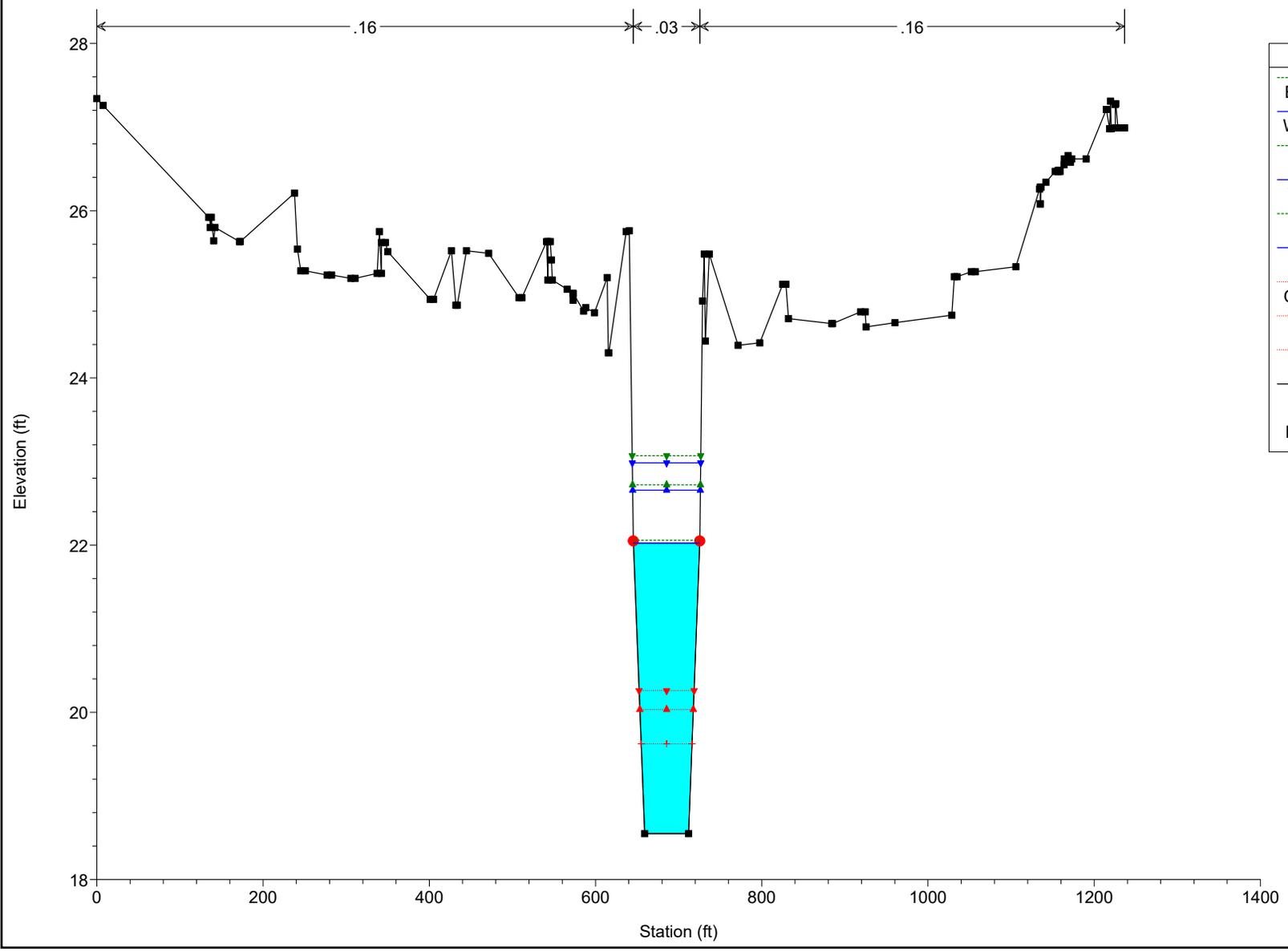
HEC-RAS Model Plan: PROPOSED BRIDGE 2/26/2025



Legend

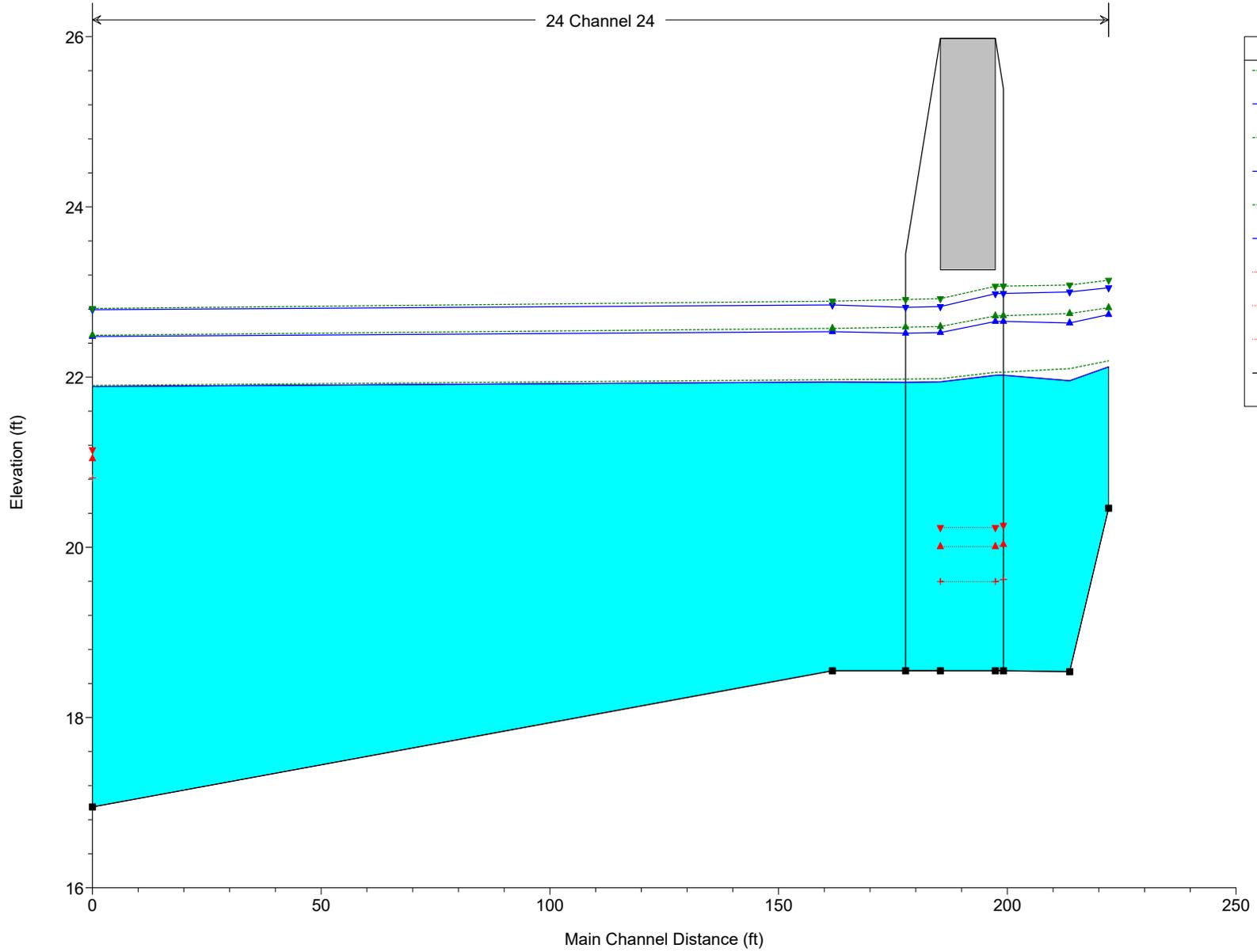
- EG Q100 (Green dashed line with inverted triangle)
- WS Q100 (Blue solid line with inverted triangle)
- EG Q25 (Green dashed line with triangle)
- WS Q25 (Blue solid line with triangle)
- EG Q5 (Green dashed line)
- WS Q5 (Blue solid line)
- Crit Q100 (Red dotted line with inverted triangle)
- Crit Q25 (Red dotted line with triangle)
- Crit Q5 (Red dotted line with plus sign)
- Ground (Black solid line with square)
- Bank Sta (Red solid circle)

HEC-RAS Model Plan: PROPOSED BRIDGE 2/26/2025



HEC-RAS Model Plan: PROPOSED BRIDGE 2/26/2025

24 Channel 24



Legend	
EG Q100	Green dashed line with inverted triangles
WS Q100	Blue solid line with inverted triangles
EG Q25	Green dashed line with triangles
WS Q25	Blue solid line with triangles
EG Q5	Green dashed line with crosses
WS Q5	Blue solid line with crosses
Crit Q100	Red dashed line with inverted triangles
Crit Q25	Red dashed line with triangles
Crit Q5	Red dashed line with crosses
Ground	Black solid line with squares

Appendix C

FEMA FIRM Panel #2201990002C
St. Tammany Parish, LA



- ### LEGEND
- SPECIAL FLOOD HAZARD AREAS INUNDED BY 100-YEAR FLOOD**
 - ZONE A** No base flood elevations determined.
 - ZONE AE** Base flood elevations determined.
 - ZONE AH** Flood depths of 1 to 3 feet (usually areas of ponding); base flood elevations determined.
 - ZONE A0** Flood depths of 1 to 3 feet (usually sheet flow on sloping terrain); average depths determined. For areas of alluvial fan flooding, velocities also determined.
 - ZONE A99** To be protected from 100-year flood by Federal flood protection system under construction; no base elevations determined.
 - ZONE V** Coastal flood with velocity hazard (wave action); no base flood elevations determined.
 - ZONE VE** Coastal flood with velocity hazard (wave action); base flood elevation determined.
 - FLOODWAY AREAS IN ZONE AE**
 - OTHER FLOOD AREAS**
 - ZONE X** Areas of 500-year flood; areas of 100-year flood with average depths of less than 1 foot or with drainage areas less than 1 square mile; and areas protected by levees from 100-year flood.
 - OTHER AREAS**
 - ZONE X** Areas determined to be outside 500-year flood plain.
 - ZONE D** Areas in which flood hazards are undetermined.
 - Flood Boundary**
 - Floodway Boundary**
 - Zone D Boundary**
 - Boundary Dividing Special Flood Hazard Zones, and Boundary Dividing Areas of Different Coastal Base Flood Elevations Within Special Flood Hazard Zones.**
 - Base Flood Elevation Line; Elevation in Feet***
 - Cross Section Line**
 - Base Flood Elevation in Feet Where Uniform Within Zone***
 - Elevation Reference Mark**

NOTES

This map is for use in administering the National Flood Insurance Program; it does not necessarily identify all areas subject to flooding, particularly from local drainage sources of small size, or all planimetric features outside special flood hazard areas. The coastal flooding elevations shown may differ significantly from those developed by the National Weather Service for hurricane evacuation planning.

Certain areas not in Special Flood Hazard Areas may be protected by flood control structures.

Boundaries of the floodways were computed at cross sections and interpolated between cross sections. The floodways were based on hydraulic considerations with regard to requirements of the Federal Emergency Management Agency.

Floodway widths in some areas may be too narrow to show to scale. Floodway widths are provided in the Flood Insurance Study Report.

Elevation reference marks are described in the Flood Insurance Study Report.

Coastal base flood elevations apply only landward of 0.0 NCVD. Coastal base flood elevations shown on this map include the effects of wave action.

For adjoining map panels see separately printed Map Index.

MAP REPOSITORY
Town Hall, Level Street, Abita Springs, Louisiana, 70420 (Maps available for reference only, not for distribution.)

INITIAL IDENTIFICATION:
MAY 17, 1974

FLOOD HAZARD BOUNDARY MAP REVISIONS:
DECEMBER 26, 1976 AND MAY 1, 1979

FLOOD INSURANCE RATE MAP EFFECTIVE:
MAY 17, 1988

FLOOD INSURANCE RATE MAP REVISIONS:

Refer to Flood Insurance Rate Map Effective date shown below to determine when actuarial rates apply to structures in zones where elevations or depths have been established.

To determine if flood insurance is available, contact an insurance agent or call the National Flood Insurance Program at (800) 638-6626.



NATIONAL FLOOD INSURANCE PROGRAM

FIRM FLOOD INSURANCE RATE MAP

TOWN OF ABITA SPRINGS, LOUISIANA ST. TAMMANY PARISH

PANEL 2 OF 2 (SEE MAP INDEX FOR PANELS NOT PRINTED)



COMMUNITY-PANEL NUMBER 220199 0002 C

EFFECTIVE DATE: MAY 17, 1988



Federal Emergency Management Agency

Appendix D
Scour Calculations

Contraction Scour

	Left	Channel	Right
Input Data			
Average Depth (ft):		3.51	
Approach Velocity (ft/s):		7.41	
Br Average Depth (ft):		3.49	
BR Opening Flow (cfs):		945.00	
BR Top WD (ft):		80.00	
Grain Size D50 (mm):		.3	
Approach Flow (cfs):		360.17	
Approach Top WD (ft):		13.85	
K1 Coefficient:		0.690	
Results			
Scour Depth Ys (ft):		0.00	
Critical Velocity (ft/s):		1.37	
Equation:		Live	

INDEX TO SHEETS

SHEET NO.	DESCRIPTION
1	TITLE SHEET & LAYOUT MAP
2	CONSTRUCTION NOTES
3-3a	SUMMARY OF ESTIMATED QUANTITIES
4	TYPICAL SECTIONS & DETAILS
5	REFERENCE POINTS & BENCH MARK ELEVATIONS

BRIDGE PLANS
101-114 BRIDGE PLANS

STANDARD PLANS
201-202 EC-01

REV. DATE
10-01-2008

TOTAL SHEETS = 23

SURVEY

HORIZONTAL CONTROL:
LOUISIANA STATE PLANE COORDINATES
ZONE 1702 (NAD 83 (2011) EPOCH 2010.00)

VERTICAL CONTROL: NAVD 88 (GEIOD 18)
FIELD BOOK 5135 (MISC. TOPO AND LEVELS)

BASE STATION:
PID: DG6568, CORS ID: COVG
DESIGNATION: COVINGTON CORS ARP
L.A.T. = N30°28'33.26965"
L.O.N. = W90°05'43.92270"
NORTHING/Y= 720,676.12
EASTING/X= 3,670,759.09

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

TYPE OF CONSTRUCTION: PEDESTRIAN SPOT BRIDGE REPLACEMENT
REMOVAL OF TIMBER BRIDGE WITH ASPHALT OVERLAY, ASPHALT
SURFACING AND BASE, CONSTRUCTION OF PRE-FABRICATED STEEL
TRUSS PEDESTRIAN BRIDGE

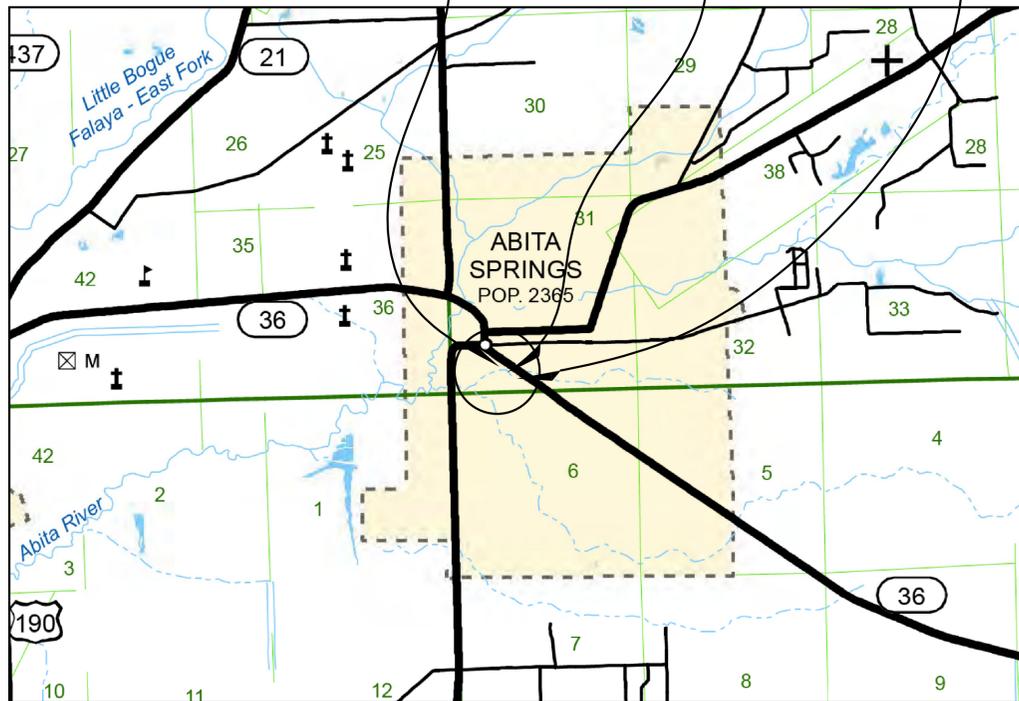
Section 14

ST. TAMMANY PARISH DEPARTMENT OF ENGINEERING

TAMMANY TRACE BRIDGE # 24

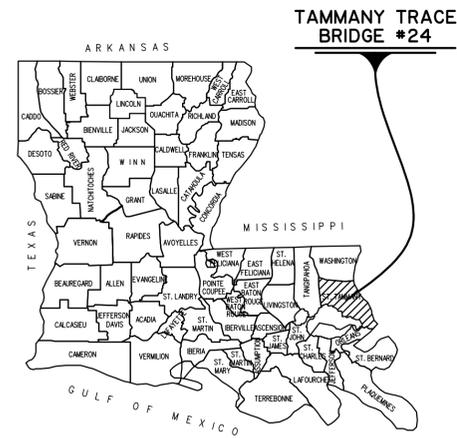
BID No. 26-11-2 ST. TAMMANY PARISH

BEG. PROJECT STA. 106+24.50 TAMMANY TRACE BRIDGE #24 END PROJECT STA. 107+81.50



LAYOUT MAP

SCALE: 1 INCH = 1 MILE



VICINITY MAP

PARISH PRESIDENT
MICHAEL B. COOPER

COUNCIL MEMEBERS

RICK SMITH	PAT BURKE
LARRY ROLLING	DAVID COUGLE
MARTHA J. CAZAUBON	MAUREEN O'BRIEN
KATHY SEIDEN	ARTHUR LAUGHLIN
PAT PHILLIPS	JERRY BINDER
CHERYL TANNER	JEFF CORBIN
JOE IMPASTATO	JIMMY STRICKLAND

PREPARED

T. BAKER SMITH, LLC.

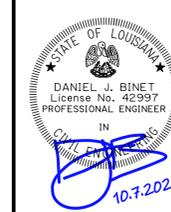
DATE 10.7.2025

APPROVED

ST. TAMMANY PARISH

DATE _____

T. BAKER SMITH
A CENTURY OF SOLUTIONS
6660 Riverside Dr., Suite 101
Metairie, LA 70003
(504)323-3460 - tbsmith.com
LA Eng Firm #: EF.0003388



PROJECT NO:
PPSL-VSF No. 24-35-5

DRAWN BY: D. FONT.

APPROVED BY: D. BINET

DATE: 10/2/2025

TITLE SHEET & LAYOUT MAP
TAMMANY TRACE BRIDGE #24
DRAWING NUMBER: 1



10/3/2025

FINAL PLANS

P:\Y-2024\2024.0388\ENG\Drawings\Bridges\24\100% Final Plans\001 - Title Sheet & Index.dgn

NO.	DATE:	DESCRIPTION:	BY:	CHK:	APP:

GENERAL NOTES

- 1. CONTRACTOR SHALL VERIFY ALL QUANTITIES AND MEASUREMENTS.
- 2. PRIOR TO BEGINNING WORK, CONTRACTOR SHALL FURNISH, INSTALL, AND MAINTAIN PROJECT AND CONSTRUCTION SIGNS.
- 3. ANY ADDITIONAL WORK PERFORMED BY THE CONTRACTOR WITHOUT PRIOR APPROVAL FROM THE ST. TAMMANY PARISH DEPT. OF ENGINEERING SHALL BE BORNE BY THE CONTRACTOR AND WILL NOT BE REIMBURSED BY THE PARISH.
- 4. ALL SIGNS AND BOLLARDS THAT ARE DISTURBED SHALL BE MOVED OR REPLACED AT NO DIRECT COST.

DRAINAGE

- 1. THE CONTRACTOR SHALL MAINTAIN DRAINAGE DURING CONSTRUCTION OF THE PROJECT.

UTILITIES

- 1. BEFORE ANY EXCAVATION, THE CONTRACTOR IS REQUIRED TO CALL LOUISIANA ONE CALL FOR LOCATION OF UTILITIES AND SHALL BE RESPONSIBLE TO PROTECT ALL EXISTING UTILITIES.

ENVIRONMENTAL COMPLIANCE

- 1. CONTRACTOR SHALL CAREFULLY REVIEW ALL PERMITS AND PERFORM ALL WORK IN ACCORDANCE WITH PERMIT CONDITIONS
- 2. CONTRACTOR SHALL KEEP A COPT OF PERMITS AT THE JOB SITE AT ALL TIMES DURING OPERATIONS.
- 3. CONTRACTOR SHALL PROVIDE ON-GROUND PRE AND POST-CONSTRUCTION PHOTOGRAPHIC DOCUMENTATION, INCLUDING A PHOTOGRAPH KEY THAT SHOWS LOCATION AND DIRECTION OF EACH PHOTOGRAPH, THAT CLEARLY SHOWS ALL VEGETATED WETLANDS OCCURRING WITHIN THE PERMITTED PROJECT AREA. THE POST-CONSTRUCTION PHOTOS SHALL BE TAKEN AT THE SAME LOCATION AND IN THE SAME DIRECTION AS THE PRE CONSTRUCTION PHOTOS. THE POST CONSTRUCTION SHALL BE TAKEN WITHIN 60 DAYS OF THE END OF THE FIRST FULL GROWING SEASON FOLLOWING COMPLETION OF THE PROJECT.

EROSION AND SEDIMENT CONTROL

- 1. TEMPORARY EROSION CONTROL MEASURES SHALL CONSIST OF SILT FENCING AND HAY BALES. MEASURES SHALL BE IN PLACE AROUND ERODIBLE AREAS TO PREVENT SILT FROM ENTERING WATERWAYS. SILT FENCING SHALL BE INSTALLED AROUND PERIMETER OF DISTURBED AREAS.
- 2. ALL AREAS DISTURBED BY THE CONTRACTOR OUTSIDE OF THE PROJECT FOOTPRINT SHALL BE SEEDED AS DIRECTED BY THE PROJECT ENGINEER OR INSPECTOR AT NO DIRECT PAY.
- 3. CONTROL TECHNIQUES SHALL BE INSTALLED PRIOR TO THE COMMENCEMENT OF EARTHWORK ACTIVITIES AND MAINTAINED UNTIL THE PROJECT IS COMPLETE AND/OR THE SUBJECT AREAS ARE STABILIZED. UPON THE COMPLETION OF CONSTRUCTION ACTIVITIES OR IF AT ANY TIME CONSTRUCTION ACTIVITIES CEASE FOR MORE THAN 14 DAYS, ALL DISTURBED SOILS SHALL BE RE-VEGETATED BY SOD, SEED, OR ANOTHER ACCEPTABLE METHOD, AS NECESSARY, TO RESTORE COVER AND PREVENT EROSION.

NO.	DATE:	DESCRIPTION:	BY:	CHK:	APP:




PROJECT NO: PPSL-VSF No. 24-35-5

DRAWN BY: D. FONT.

APPROVED BY: D. BINET

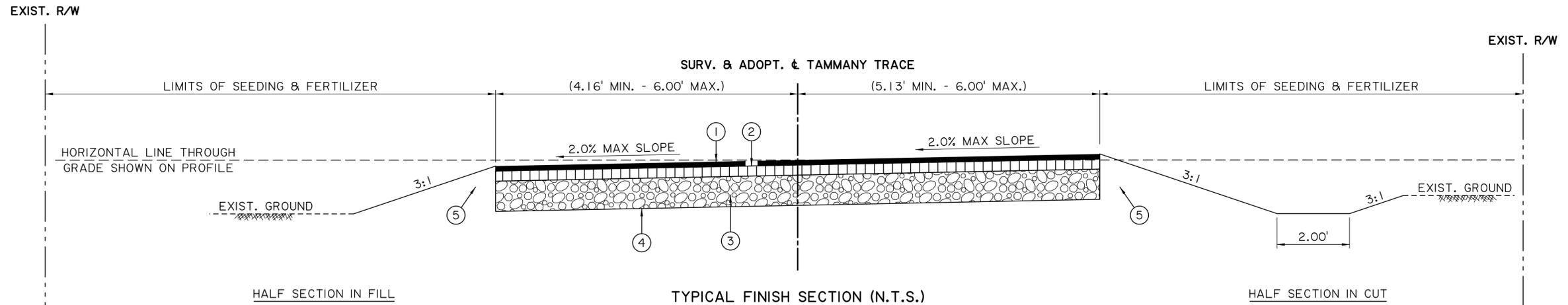
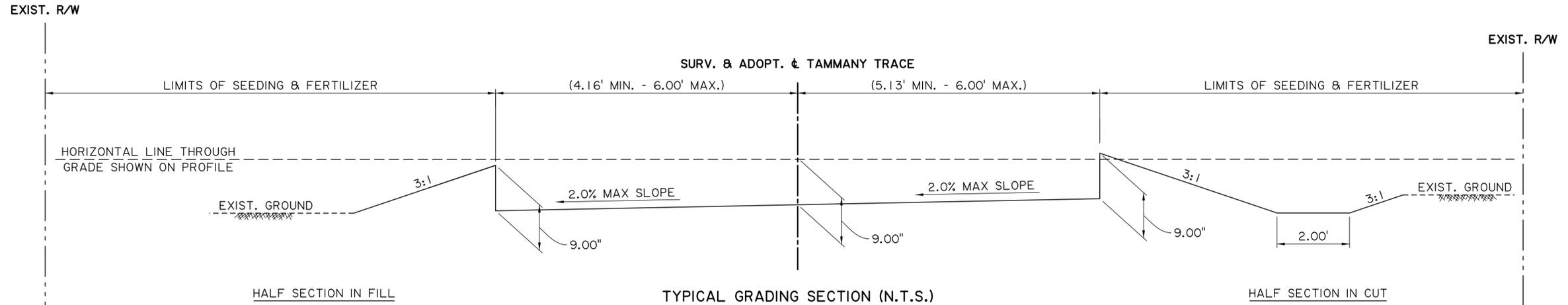
DATE: 10/2/2025

CONSTRUCTION NOTES

TAMMANY TRACE BRIDGE #24

DRAWING NUMBER: 2



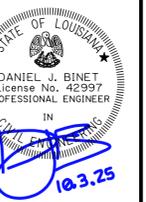


LEGEND

- ① REQ'D THIN ASPHALT CONCRETE (DENSE MIX) WEARING (1" THICK)
- ② REQ'D ASPHALT CONCRETE BINDER (2" THICK) (PG 67-22 ALLOWED)
- ③ REQ'D CLASS II BASE COURSE (6" THICK) (CRUSHED STONE)
- ④ GEOTEXTILE FABRIC
- ⑤ REQ'D EMBANKMENT

NO.	DATE:	DESCRIPTION:	BY:	CHK:	APP:

T. BAKER SMITH
A CENTURY OF SOLUTIONS
6660 Riverside Dr., Suite 101
Metairie, LA 70003
(504)323-3460 - tbsmith.com
LA Eng Firm #: EF.0003388



PROJECT NO:
PPSL-VSF No. 24-35-5

DRAWN BY: D. FONT.

APPROVED BY: D. BINET

DATE: 10/2/2025

TYPICAL SECTION
TAMMANY TRACE BRIDGE #24
DRAWING NUMBER: 2



EARTHWORK (CU. YDS.)				
STATION	STATION	203-02-00100		203-05-00100
		DRAINAGE EXCAVATION	GENERAL EXCAVATION	EMBANKMENT
106+24.50	106+40.00	-	4	1
106+40.00	106+62.17	-	6	15
BRIDGE		119	-	-
107+43.84	107+60.00	-	2	18
107+60.00	107+80.00	-	4	6
107+80.00	107+81.50	-	1	1
TOTALS		119	17	41

REMOVAL						
STATION	STATION	SIDE ☿	DESCRIPTION	LENGTH	202-02-03030	
					REMOVAL OF PAVEMENT STRUCTURE	
					AVG. WIDTH	AREA
				LNFT	LNFT	SQYD
106+24.50	106+52.17	LT./RT.	BEFORE BRIDGE	27.67	16.02	49.3
107+53.85	107+81.50	LT./RT.	AFTER BRIDGE	27.65	16.27	50.0
TOTAL						99.3

STATION	STATION	SIDE ☿	DESCRIPTION	204-05-00100	204-06-00100
				TEMPORARY SEDIMENT CHECK DAMS (HAY)	TEMPORARY SILT FENCING
				EACH	LNFT
106+24.50	106+62.17	LT.	SILT FENCE - BEFORE BRIDGE	-	78
106+24.50	106+62.17	RT.	SILT FENCE - BEFORE BRIDGE	-	80
106+60.00	-	RT.	CHECK DAM (HAY)	1	-
106+60.00	-	LT.	CHECK DAM (HAY)	1	-
107+43.84	107+81.50	LT.	SILT FENCE - AFTER BRIDGE	-	98
107+43.84	107+81.50	RT.	SILT FENCE - AFTER BRIDGE	-	81
107+50.00	-	RT.	CHECK DAM (HAY)	1	-
107+50.00	-	LT.	CHECK DAM (HAY)	1	-
TOTALS				4	337

ASPHALT CONCRETE & BASE COURSE												
STATION	STATION	SIDE ☿	DESCRIPTION	LENGTH	501-01-00100			502-01-00100			302-01-00300	
					THIN ASPHALT CONCRETE (DENSE MIX)			ASPHALT CONCRETE			CLASS II BASE COURSE (6" THICK) (CRUSHED STONE)	
					1" THICK			2.0" BINDER COURSE			WIDTH	AREA
					WIDTH	AREA	WEIGHT	WIDTH	AREA	WEIGHT	LNFT	SQYD
				LNFT	LNFT	SQYD	TON	LNFT	SQYD	TON	LNFT	SQYD
106+24.50	106+52.17	LT./RT.	ROADWAY BEFORE BRIDGE	27.67	11.14	34.26	1.9	11.14	34.26	3.8	11.14	34.3
107+53.85	107+81.50	LT./RT.	ROADWAY AFTER BRIDGE	27.65	11.10	34.11	1.9	11.10	34.11	3.8	11.10	34.1
TOTALS						3.8			7.6			68.4

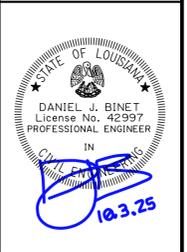
STATION	STATION	SIDE ☿	ACRES	716-01-00100	717-01-00100	718-01-00100
				MULCH (VEGETATIVE)	SEEDING	FERTILIZER
				TON	LB	LB
106+24.50	106+62.17	LT.	0.018	0.0	1	18
106+24.50	106+62.17	RT.	0.018	0.0	1	18
107+43.84	107+81.50	LT.	0.018	0.0	1	18
107+43.84	107+81.50	RT.	0.022	0.0	1	22
TOTALS				0.1	2	76

SAWCUTTING					
STATION	SIDE ☿	DESCRIPTION	DEPTH	LENGTH	NS-500-00340
					SAW CUTTING ASPHALT CONCRETE PAVEMENT
					INLF
106+24.50	LT./RT.	BEGIN SITE	4.00	10.04	40
107+81.50	LT./RT.	END SITE	4.00	9.93	40
TOTAL					80

HAND RAILING				
NS-800-00260				
STATION	STATION	SIDE ☿	LENGTH	
			LNFT	
106+52.25	106+61.25	LT.	9	
106+52.25	106+61.25	RT.	9	
107+44.75	107+53.75	LT.	9	
107+44.75	107+53.75	RT.	9	
TOTAL			36	

NO.	DATE	DESCRIPTION	BY	CHK	APP

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6660 Riverside Dr., Suite 101
Metairie, LA 70003
(504)323-3460 - tbsmith.com
LA Eng Firm #: EF.0003388

DANIEL J. BINET
License No. 42997
PROFESSIONAL ENGINEER
IN
LOUISIANA
10.3.25

PROJECT NO: PPSL-VSF No. 24-35-5
DRAWN BY: D. FONT.
APPROVED BY: D. BINET
DATE: 10/2/2025

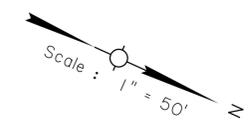
SUMMARY SHEET
TAMMANY TRACE BRIDGE #24
DRAWING NUMBER: 3



10/3/2025

FINAL PLANS

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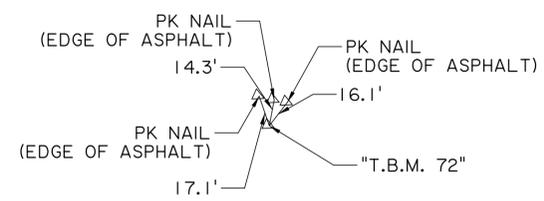
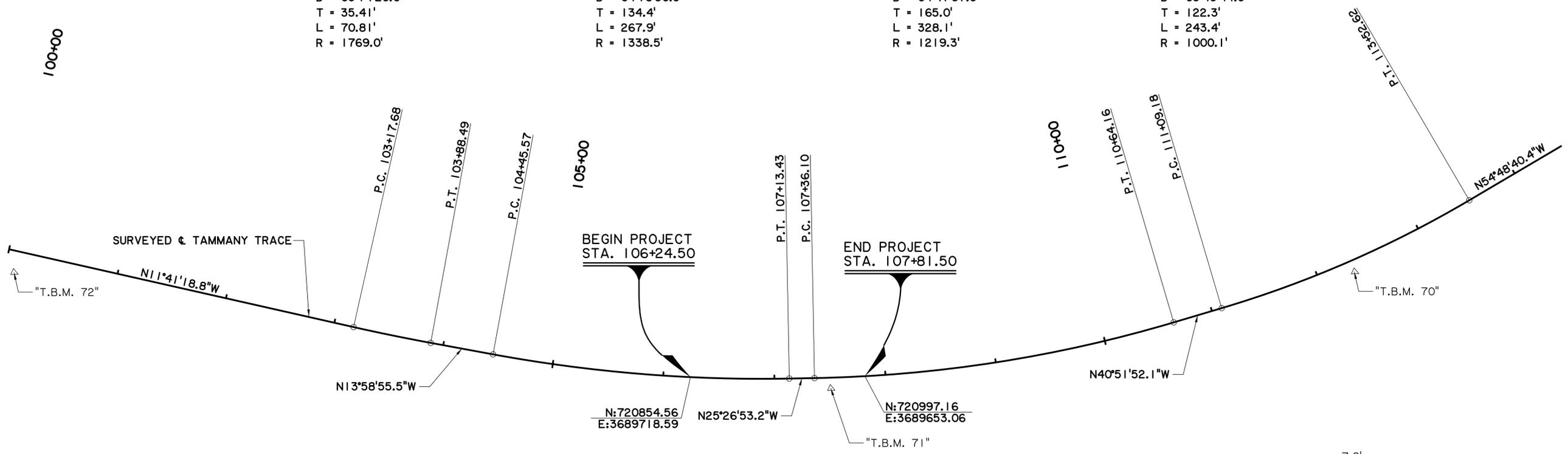


SURV. & ADOPT. &
TAMMANY TRACE
CURVE DATA
P.I. STA. 103+53.09
Δ = 02°17'36.7" LT.
D = 03°14'20.0"
T = 35.41'
L = 70.81'
R = 1769.0'

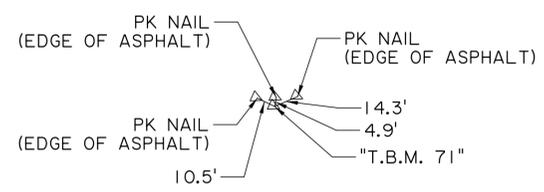
SURV. & ADOPT. &
TAMMANY TRACE
CURVE DATA
P.I. STA. 105+79.95
Δ = 11°27'57.6" LT.
D = 04°16'50.5"
T = 134.4'
L = 267.9'
R = 1338.5'

SURV. & ADOPT. &
TAMMANY TRACE
CURVE DATA
P.I. STA. 109+01.13
Δ = 15°24'58.9" LT.
D = 04°41'57.3"
T = 165.0'
L = 328.1'
R = 1219.3'

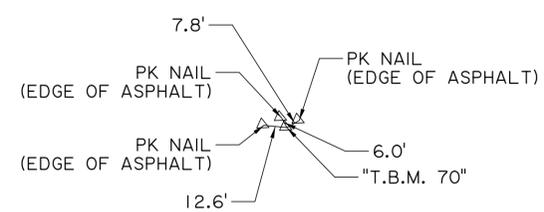
SURV. & ADOPT. &
TAMMANY TRACE
CURVE DATA
P.I. STA. 112+31.51
Δ = 13°56'48.2" LT.
D = 05°43'44.3"
T = 122.3'
L = 243.4'
R = 1000.1'



"T.B.M. 72"
1/2 IN IRON ROD
W/ ALUM. CAP
STA. 100+06.4, 21.8' RT.
ELEV. 27.22'
N: 720262.48
E: 3689884.22



"T.B.M. 71"
1/2 IN IRON ROD
W/ ALUM. CAP
STA. 107+54.2, 11.4" RT.
ELEV. 25.48'
N: 720974.87
E: 3689675.69



"T.B.M. 70"
1/2 IN IRON ROD
W/ ALUM. CAP
STA. 112+34.9, 13.4' RT.
ELEV. 26.98'
N: 721361.02
E: 3689385.92

NO.	DATE:	DESCRIPTION:	BY:	CHK:	APP:

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DANIEL J. BINET
License No. 42997
PROFESSIONAL ENGINEER
IN
LOUISIANA
10.3.25

PROJECT NO: PPSL-VSF No. 24-35-5
DRAWN BY: D. FONT.
APPROVED BY: D. BINET
DATE: 10/2/2025

REFERENCE POINTS &
BENCH MARK ELEVATIONS
TAMMANY TRACE BRIDGE #24
DRAWING NUMBER: 4



BRIDGE GENERAL NOTES

1. **CONSTRUCTION SPECIFICATIONS:** CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE LOUISIANA DEPARTMENT OF TRANSPORTATION AND DEVELOPMENT, STANDARD SPECIFICATIONS FOR ROADS AND BRIDGES, 2016 EDITION, EXCEPT AS SUPPLEMENTED OR AMENDED BY THE PLANS, SUPPLEMENTAL SPECIFICATIONS AND/OR SPECIAL PROVISIONS.
2. **ELEVATIONS:** ALL ELEVATIONS ARE BASED ON NAVD 88.
3. **DIMENSIONS:** ALL DIMENSIONS ARE GIVEN AT NORMAL TEMPERATURE (68° F).
4. **LIVE LOADING:** LIVE LOADING SHALL BE AASHTO H-10 VEHICLE + PSF PEDESTRIAN LOAD.
5. **CONCRETE:** ALL CONCRETE FOR THE APPROACH SLABS, FOUNDATION, AND DECK SHALL BE CLASS A1 CONCRETE. CHAMFER ALL EXPOSED EDGES OF CONCRETE 3/4".
6. **CONCRETE SURFACE FINISH:** SURFACES SHALL BE FINISHED IN ACCORDANCE WITH 805.08. "CONCRETE SURFACE FINISHES" OF THE LOUISIANA STANDARD SPECIFICATIONS FOR ROADS AND BRIDGES, 2016 EDITION.
7. **REINFORCING STEEL:** DIMENSIONS RELATING TO REINFORCING STEEL SPACING ARE CENTER TO CENTER OF BAR. MINIMUM COVER FROM SURFACE OF CONCRETE TO FACE OF ANY DEFORMED REINFORCING BAR SHALL NOT BE LESS THAN THE FOLLOWING:

 TOP OF SLAB = 2 1/2"
 ALL OTHER = 2"

 ALL REINFORCING STEEL SHALL BE GRADE 60 STEEL. THE FIRST DIGIT OF REINFORCING BAR NUMBER INDICATES BAR SIZE.

FINAL DETAILS OF PREFABRICATED STEEL TRUSS TO BE PROVIDED BY MANUFACTURER

PEDESTRIAN BRIDGE

APPROX. FINAL ASSEMBLED WEIGHT: 82,800 LBS. TO BE PROCURED BY CONTRACTOR AND DELIVERED ON SITE BY MANUFACTURER IN APPROX. 2 SECTIONS. CONTRACTOR TO UNLOAD, ASSEMBLE, AND SET STRUCTURE INTO POSITION. PEDESTRIAN BRIDGE TO BE CONTECH CONTINENTAL, PIONEER TRAILBLAZER, OR APPROVED EQUAL.

INDEX

SHEET NO.	DESCRIPTION
101	BRIDGE NOTES & INDEX
102-102a	SUMMARY OF BRIDGE QUANTITIES
103	GENERAL PLAN & ELEVATION
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106	FOUNDATION LAYOUT
107	PILE DATA & ELEVATIONS
108	APPROACH SLAB DETAILS
109-110	BRIDGE ABUTMENT & WINGWALL DETAILS
111-112	PEDESTRIAN HANDRAIL DETAILS
113	BD.2.11.3.2.01 (FR-01)
114	CONCRETE SURFACE FINISH SUMMARY TABLE

TOTAL BRIDGE SHEETS = 15

NO.	DATE:	DESCRIPTION:	BY:	CHK:	APP:

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PROFESSIONAL ENGINEER
IN
10.3.25

PROJECT NO:
PPSL-VSF No. 24-35-5

DRAWN BY: D. FONT.

APPROVED BY: D. BINET

DATE: 10/2/2025

BRIDGE NOTES & INDEX

TAMMANY TRACE BRIDGE #24

DRAWING NUMBER: 101



SUMMARY OF CONCRETE FINISH QUANTITIES			
STRUCTURE COMPONENT	LOCATION	805-18-00100	805-18-00200
		CONCRETE FINISH (CLASS 2 RUBBED FINISH)	CONCRETE FINISH (CLASS 3 SPECIAL FINISH)
ABUTMENT WINGWALLS	ABUTMENT 1	37	37
BRIDGE ABUTMENT	(STA. 106+49.50 - 106+67.00)	60	60
BRIDGE ABUTMENT	ABUTMENT 2	60	60
ABUTMENT WINGWALLS	(STA. 107+39.00 - 107+56.50)	37	37
TOTALS		194	194

STRUCTURAL METALWORK		
807-02-00100		
ANCHOR BOLTS		
STRUCTURE COMPONENT	LOCATION	WEIGHT LBS
(4) 1" DIA. THREADED ROD	ABUTMENT 1 (STA. 106+63.00)	6
(4) 1" DIA. THREADED ROD	ABUTMENT 2 (STA. 107+43.00)	6
* TOTAL		12

* FOR INFORMATIONAL PURPOSES ONLY. TO BE PAID FOR UNDER STRUCTURAL METALWORK (ANCHOR BOLTS), LUMP SUM.

DECK REBAR				
ESTIMATED QUANTITIES (DECK)				
BAR	NO.	UNIT LENGTH	TOTAL LENGTH	LOCATION
501	22	79'-8"	1,752'-8"	LONGITUDINAL IN DECK
502	106	11'-8"	1,236'-8"	TRANSVERSE IN DECK
TOTAL NO. 5 BARS = 2,989'-4" = 3,118 LBS.				
TOTAL DEFORMED REINFORCING STEEL				= 3,118 LBS.
CLASS A1 CONCRETE				= 17.78 CU. YDS.

ABUTMENT REBAR				
ESTIMATED QUANTITIES (ONE ABUTMENT)				
BAR	NO.	UNIT LENGTH	TOTAL LENGTH	LOCATION
601	10	15'-6"	155'-0"	LONGIT. TOP & BOT. OF ABUTMENT CAP
602	4	8'-7"	34'-4"	LONGIT. BOTTOM OF ABUTMENT CAP BTWN. PILES
603	12	13'-0"	156'-0"	LONGIT. IN WINGWALL
604	16	14'-0"	224'-0"	LONGIT. IN WINGWALL CAP
TOTAL NO. 6 BARS = 569'-4" = 855 LBS.				
501	8	15'-6"	124'-0"	LONGIT. IN ABUTMENT BACKWALL
502	3	15'-6"	46'-6"	LONGIT. IN BACKWALL CORBEL
TOTAL NO. 5 BARS = 124'-0" = 129 LBS.				
401	4	15'-6"	62'-0"	LONGIT. MIDDLE OF ABUTMENT CAP
402	13	9'-9"	126'-9"	STIRRUPS IN ABUTMENT BACKWALL
403	14	4'-5"	61'-10"	BACKWALL CORBEL STIRRUPS
404	28	10'-2"	284'-8"	STIRRUPS IN WINGWALL
TOTAL NO. 4 BARS = 535'-3" = 358 LBS.				
301	40	13'-4"	533'-4"	STIRRUPS IN ABUTMENT CAP
302	22	8'-9"	192'-6"	STIRRUPS IN WINGWALL CAP
TOTAL NO. 3 BARS = 725'-10" = 273 LBS.				
TOTAL DEFORMED REINFORCING STEEL				= 1,615 LBS.
CLASS A1 CONCRETE (BENT CAP)				= 18.80 CU. YDS.

NO.	DATE:	DESCRIPTION:	BY:	CHK:	APP:

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PROJECT NO:
PPSL-VSF No. 24-35-5

DRAWN BY: D. FONT.

APPROVED BY: D. BINET

DATE: 10/2/2025

SUMMARY OF BRIDGE QUANTITIES

TAMMANY TRACE BRIDGE #24

DRAWING NUMBER: 102



10/3/2025

FINAL PLANS

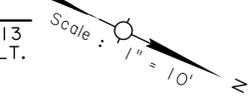
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SURV. & ADOPT ϕ
TAMMANY TRACE
CURVE DATA

P.I. STA 105+79.95
 $\Delta = 11^{\circ}27'57.7''$ LT.
D = $04^{\circ}16'50.5''$
T = 134.38'
L = 267.85'
R = 1338.47'

SURV. & ADOPT ϕ
TAMMANY TRACE
CURVE DATA

P.I. STA 109+01.13
 $\Delta = 15^{\circ}24'58.9''$ LT.
D = $04^{\circ}41'57.3''$
T = 165.03'
L = 328.06'
R = 1219.25'



HYDRAULIC DATA				
DRAINAGE AREA (SQ. MI.): 1.16		PROJECTED SCOUR		
BASIN SLOPE (FT./MI.): 6.02		FLOOD FREQUENCY (YRS.): 500		
FLOOD FREQUENCY (YRS.)	25	25	100	FLOOD FREQUENCY (YRS.): 500
DISCHARGE (C.F.S.)	576	576	719	DISCHARGE (C.F.S.): 945
STRUCTURE	EXIST. BRIDGE	PROP. BRIDGE	CONTRACTION SCOUR DEPTH (FT.): 0.00	
SIZE & TYPE	66' (L) x 12' (W)	80' (L) x 12' (W)	MAX. PIER SCOUR DEPTH (FT.): N/A	
DESIGN W.S. EL.: (FT.)	24.96	22.66	22.98	ABUTMENT SCOUR DEPTH (FT.): N/A
VELOCITY (FT./SEC.)	3.10	2.05	2.33	BRIDGE SCOUR ELEV. (FT./M.S.L.): 18.55'
BACKWATER (FT.)	0.10	NEGL.	NEGL.	
AREA OF OPENING (SQ. FT.)	136.43	327.89	327.89	

STA. 106+62.92
END 9" ABUTMENT BACKWALL
BEG. BRIDGE

STA. 106+62.17
END CONCRETE APPR. SLAB
BEG. 9" ABUTMENT BACKWALL

STA. 106+52.17
END 12' ASPHALT RDWY.
BEG. CONCRETE APPR. SLAB

STA. 107+43.09
END BRIDGE

STA. 107+43.84
END 9" ABUTMENT BACKWALL
BEG. CONCRETE APPR. SLAB

STA. 107+53.85
END CONCRETE APPR. SLAB
BEG. 12' ASPHALT RDWY.

PLAN
SCALE = 1" = 10'

NOTES:

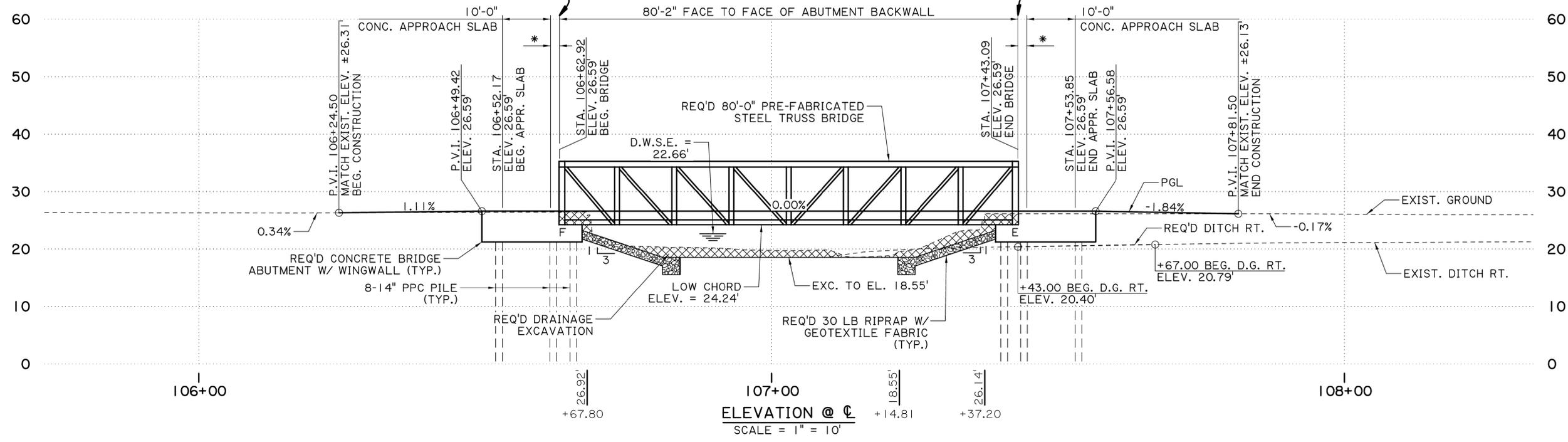
- RIPRAP NOT DRAWN TO SCALE (LIMITS OF RIPRAP SHOWN FOR ESTIMATION PURPOSES ONLY).
- BRIDGE TO BE CONSTRUCTED STRAIGHT WHILE THE SURVEYED ϕ ALIGNMENT IS CURVED.

* 9" ABUTMENT BACKWALL

IN PLACE TO BE REMOVED:
STA. 106+68.31 TO STA. 107+34.33
12' (CL.) X 66' TIMBER TRESTLE
W/ ASPHALT OVERLAY

LEGEND:

- REQ'D ASPHALT & BASE COURSE
- REQ'D BRIDGE STRUCTURE
- REQ'D RIP RAP
- REMOVAL OF PAVEMENT STRUCTURE / DRAINAGE EXCAVATION



ELEVATION @ ϕ
SCALE = 1" = 10'

NO.	DATE	DESCRIPTION	BY	CHK	APP

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PROFESSIONAL ENGINEER

PROJECT NO: PPSL-VSF No. 24-35-5
DRAWN BY: D. FONT
APPROVED BY: D. BINET
DATE: 10/2/2025

GENERAL PLAN & ELEVATION
TAMMANY TRACE BRIDGE #24
DRAWING NUMBER: 103



Tammany Trace Bridge - Multiple Locations
 St. Tammany Trace | Abita Springs, LA
 Terracon Project No. ET235063



Boring Log No. AS-01

Model Layer	Graphic Log	Location: See Exploration Plan Latitude: 30.4759° Longitude: -90.0354°	Depth (Ft.)	Water Level Observations	Sample Type	Field Test Results	Strength Test			Water Content (%)	Dry Unit Weight (pcf)	Atterberg Limits	
							Test Type	Compressive Strength (tsf)	Strain (%)			Confining Pressure (psi)	LL-PL-PI
		Depth (Ft.) Elevation: 26 (Ft.) +/-											
	0.3	ASPHALT , 3 Inches	25.75										
	4.0	LEAN CLAY WITH SAND (CL) , brownish red, stiff	22			1.25 (HP)			17.4			31-13-18	
	8.0	LEAN CLAY WITH SILT (CL) , light gray and tan, soft to medium stiff	18			0.25 (HP)	UU	15	17.8	124		34-14-20	
	17.0	FAT CLAY (CH) , with silt, tan and light gray, stiff to very stiff	9			2.5 (HP)							
	17.0	LEAN CLAY WITH SILT (CL) , light brownish gray, stiff	9			1.75 (HP)			39.3			74-28-46	
2	38.0	CLAYEY SAND (SC) , light gray, very loose	-12			2.5 (HP)	UU	13.6	8	15.3	120		14
	48.0	POORLY GRADED SAND WITH CLAY (SP-SC) , tan and light gray, very dense	-22			2.0 (HP)							
3	55.0	Boring Terminated at 55 Feet	-29			2.5 (HP)	UU	9.7	12	23.5	97		25-16-9
	55.0					1.0 (HP)							
	55.0					0.5 (HP)				19.9			
	55.0					0-1-2 N=3				22.0			35
	55.0					50/4"							
	55.0					50/4"				22.6			8

Notes
 See Exploration and Testing Procedures for a description of field and laboratory procedures used and additional data (if any).
 See Supporting Information for explanation of symbols and abbreviations.

Water Level Observations
 No free water observed during augering

Drill Rig
ATV

Hammer Type
Rope and Cathead

Driller
J. Anslem

Logged by
G. Brooks

Boring Started
10-19-2023

Boring Completed
10-19-2023

Advancement Method

Abandonment Method
 Boring backfilled with Auger Cuttings and/or Bentonite
 Surface Capped with Asphalt

Notes
 Elevation Reference: Elevations were estimated from Google Earth Imagery

10/07/2025

Facilities | Environmental | **Geotechnical** | Materials



GEOTECHNICAL EXPLORATION LOG
 TAMMANY TRACE BRIDGE #24

DRAWING NUMBER: 104



PROJECT NO:
PPSL-VSF No. 24-35-5

DRAWN BY:

APPROVED BY:

DATE: 10/2/2025



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REVISIONS

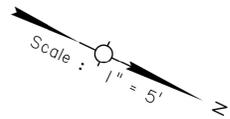
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10/3/2025

FINAL PLANS

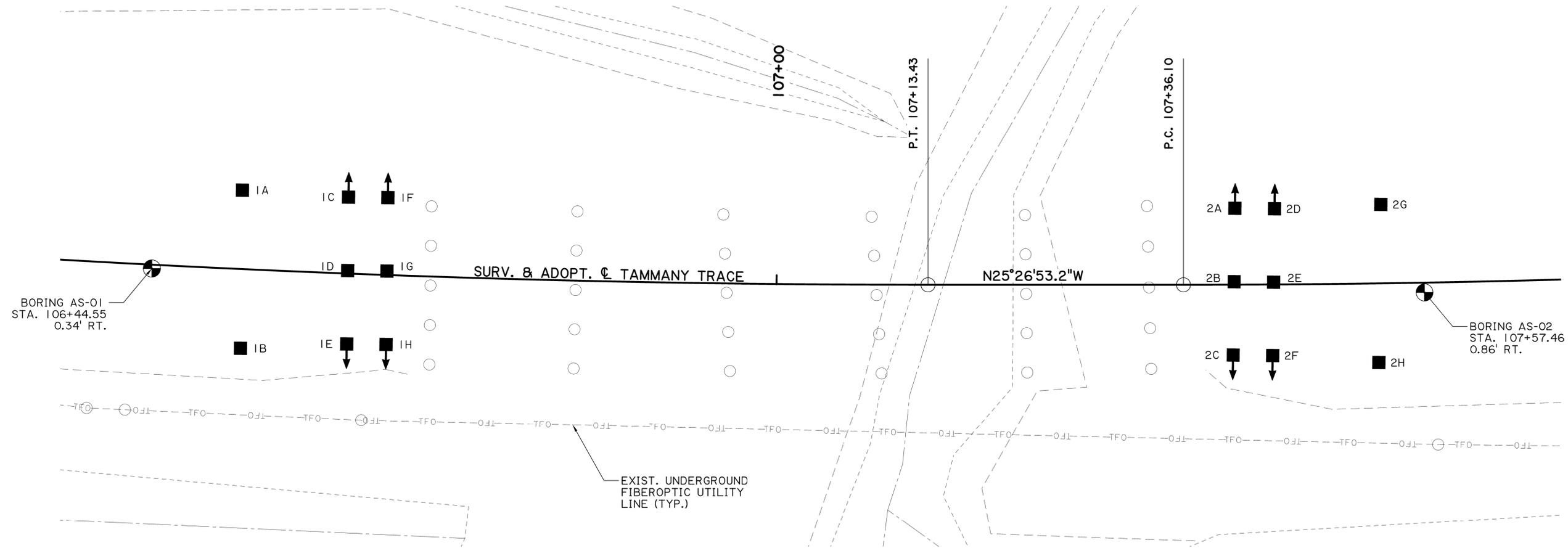
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- LEGEND:**
- REQ'D 14" Ø P.P.C. PILE
 - EXISTING TIMBER PILE
 - ➔ PILE BATTER (1 1/2 ON 12)
 - ⊙ BORING LOCATIONS



SURV. & ADOPT ϕ
TAMMANY TRACE
CURVE DATA
P.I. STA 105+79.95
 $\Delta = 11^{\circ}27'57.7''$ LT.
D = 04°16'50.5"
T = 134.38'
L = 267.85'
R = 1338.47'

SURV. & ADOPT ϕ
TAMMANY TRACE
CURVE DATA
P.I. STA 109+01.13
 $\Delta = 15^{\circ}24'58.9''$ LT.
D = 04°41'57.3"
T = 165.03'
L = 328.06'
R = 1219.25'



PILE LOCATIONS		
PILE IDENTIFICATION	STATION	OFFSET
IA	106+52.27	6.98' LT.
IB	106+52.73	7.01' RT.
IC	106+61.74	6.76' LT.
ID	106+61.91	0.26' LT.
IE	106+62.08	6.24' RT.
IF	106+65.26	6.85' LT.
IG	106+65.41	0.35' LT.
IH	106+65.56	6.15' RT.
2A	107+40.70	6.76' LT.
2B	107+40.60	0.26' LT.
2C	107+40.49	6.24' RT.
2D	107+44.22	6.70' LT.
2E	107+44.10	0.20' LT.
2F	107+43.98	6.30' RT.
2G	107+53.70	6.98' LT.
2H	107+53.33	7.01' RT.

NO.	DATE	DESCRIPTION	BY	CHK	APP

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STATE OF LOUISIANA
DANIEL J. BINET
License No. 42997
PROFESSIONAL ENGINEER
IN
10.3.25

PROJECT NO:
PPSL-VSF No. 24-35-5
DRAWN BY: D. FONT.
APPROVED BY: D. BINET
DATE: 10/2/2025

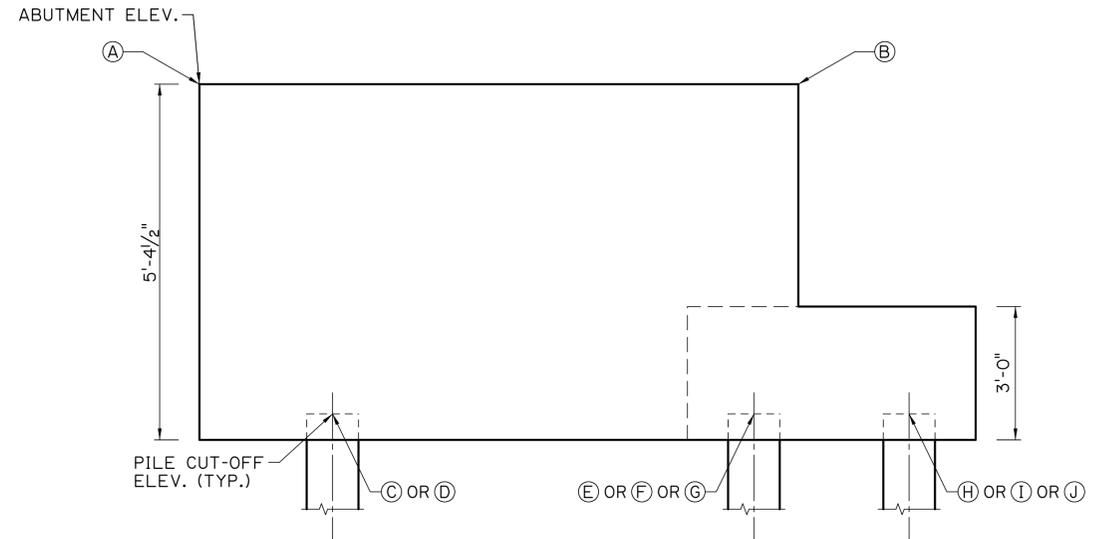
FOUNDATION LAYOUT
TAMMANY TRACE BRIDGE #24
DRAWING NUMBER: 106



TAMMANY TRACE BRIDGE 24 - PILE DATA TABLE

ABUTMENT NO.	ABUTMENT STATION @ P.G.L.	NO. OF PILES	PILE TYPE AND SIZE	MONITOR PILES REQUIRED (Y OR N)	LOAD (TONS)						SOIL RESISTANCE FACTOR (φ)				MAX. CUTOFF EL. (FT)	PLAN LENGTH (FT)	PLAN TIP EL. (FT)	ORDER LENGTH (FT)	AS-BUILT TIP EL. (FT)			REQUIRED NOMINAL RESISTANCE (TONS)	
					SERVICE		STRENGTH		EXTREME		SERVICE	STRENGTH		EXTREME					MAX.	MIN.	AVG.	WITHOUT PREBORING	PREBORING TO SCOUR DEPTH
					PERMANENT LOAD	TRANSIENT LOAD	COMPRESSION	TENSION	COMPRESSION	TENSION		COMPRESSION	TENSION										
1WW	106+52.50	2	14" ∅ P.P.C.	N	12	-	14				1.0	0.5		22.72	46	-23.28	50				95	91	
1	106+63.00	6	14" ∅ P.P.C.	N	15	6	25				1.0	0.5		22.72	46	-23.28	50				117	113	
2	107+43.00	6	14" ∅ P.P.C.	N	15	6	25				1.0	0.5		22.72	46	-23.28	50				117	113	
2WW	107+52.50	2	14" ∅ P.P.C.	N	12	-	14				1.0	0.5		22.72	46	-23.28	50				95	91	

CAP AND PILE CUTOFF ELEVATION (CAST-IN-PLACE)											
ABUTMENT NO.	CAP ELEVATION (FT.)		CAP SLOPE	PILE CUTOFF ELEVATION (FT.)							
	A	B		C	D	E	F	G	H	I	J
1	27.34	27.34	0.00%	22.72	22.72	22.72	22.72	22.72	22.72	22.72	22.72
2	27.34	27.34	0.00%	22.72	22.72	22.72	22.72	22.72	22.72	22.72	22.72



ELEVATION BRIDGE ABUTMENT
N.T.S.

PILES: ALL PILE REQUIREMENTS INCLUDING SIZE, TYPE, LOCATION, AND MAXIMUM DESIGN LOAD SHALL BE AS DESCRIBED IN THE CONTRACT DOCUMENTS. THE MINIMUM PILE TIP ELEVATION WILL BE THE PLAN TIP ELEVATION AS SHOWN IN THE PRODUCTION PILE DATA TABLE, UNLESS OTHERWISE NOTED OR OTHERWISE DIRECTED BY THE GEOTECHNICAL ENGINEER. PLAN LENGTHS PROVIDED IN THE PRODUCTION PILE DATA TABLE ARE ORDER LENGTHS.

PILE CAPACITY VERIFICATION: SHALL BE BASE ON THE MODIFIED GATES DYNAMIC FORMULA:

ENGLISH DYNAMIC FORMULA

$$R = \frac{(1.75\sqrt{Er})\log(10Nb)}{2} - 100$$

R = Pile Bearing Capacity (Tons)

Er = Manufacturer's Rated Energy at the field

observed ram stroke (foot-pounds)

Nb = Number of Hammer Blows/Inch

REQUIRED NOMINAL RESISTANCE: REQUIRED NOMINAL RESISTANCE "WITHOUT PREBORING" SHALL BE USED TO VERIFY PILE CAPACITY IF NO PREBORING IS PERFORMED. IF PREBORING TO THE SCOUR ELEVATION IS PERFORMED, THE REQUIRED NOMINAL RESISTANCE "PREBORING TO SCOUR" SHALL BE USED FOR PILE CAPACITY VERIFICATION.

NO.	DATE:	DESCRIPTION:	BY:	CHK:	APP:

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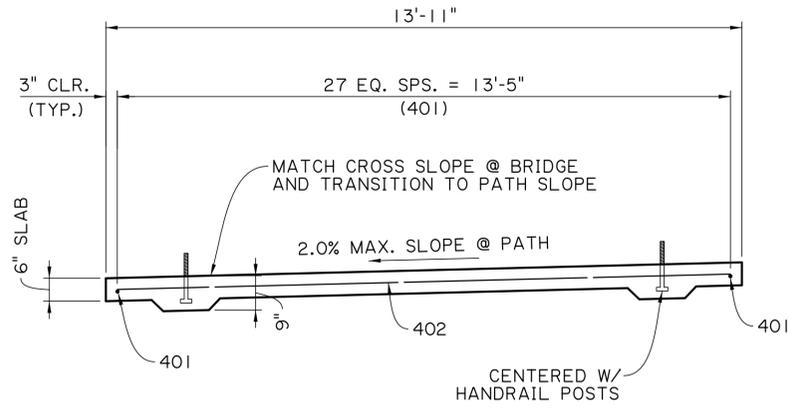
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IN
CIVIL ENGINEERING
10.3.25

PROJECT NO:
PPSL-VSF No. 24-35-5
DRAWN BY: D. FONT.
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DATE: 10/2/2025

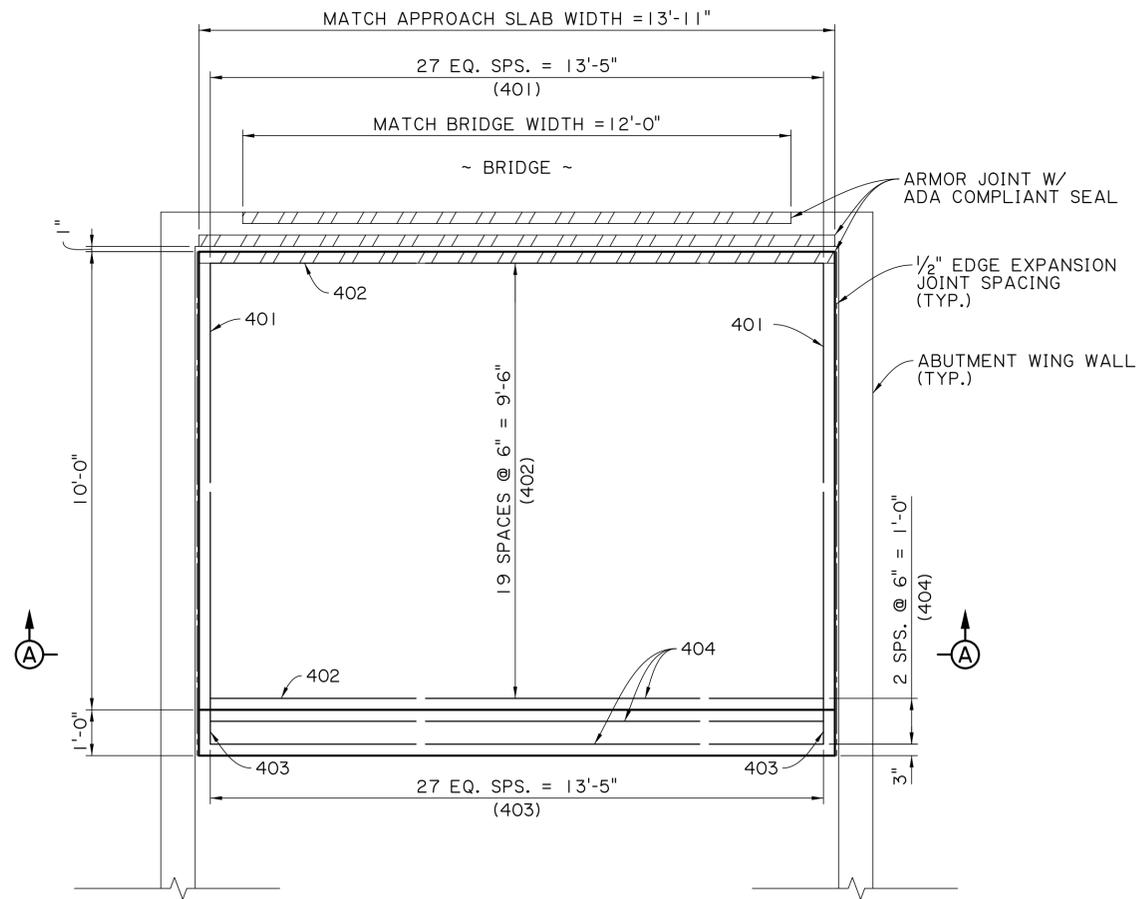
PILE DATA & ELEVATIONS
TAMMANY TRACE BRIDGE #24
DRAWING NUMBER: 107

ANJELICA MORAN
License No. 48910
PROFESSIONAL ENGINEER
IN
CIVIL ENGINEERING
10/07/2025
GEOTECHNICAL ANALYSIS & DESIGN

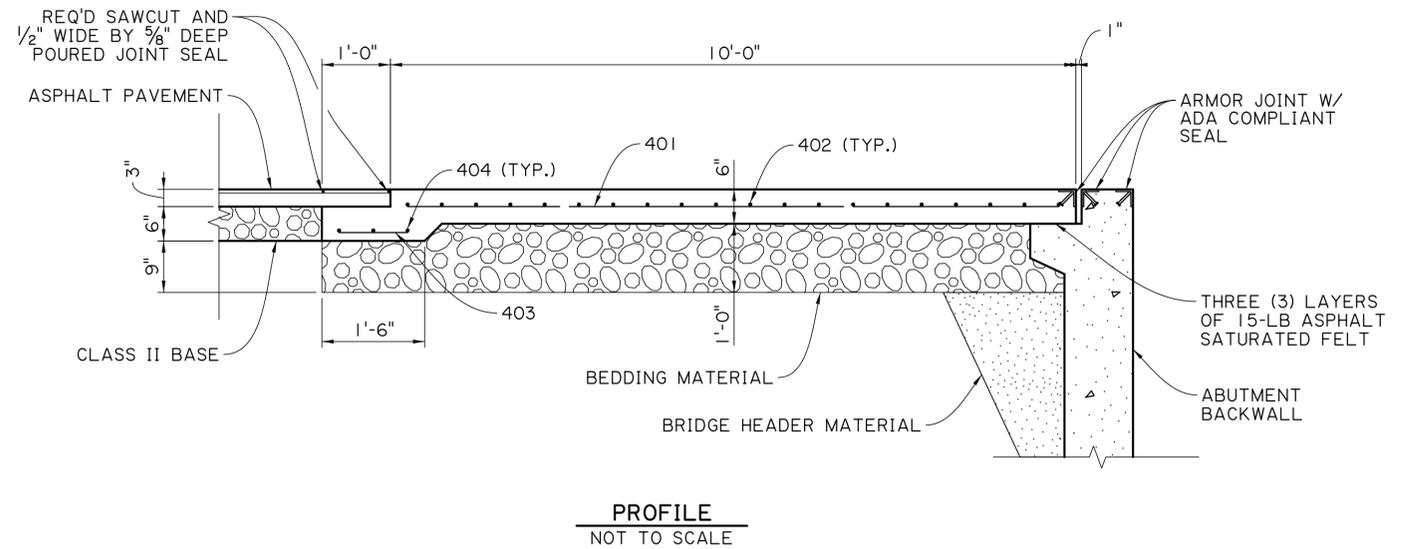




SECTION A-A
SCALE: 1/2" = 1'-0"



PLAN
SCALE: 1/2" = 1'-0"



PROFILE
NOT TO SCALE

ESTIMATED QUANTITIES (ONE APPROACH SLAB)				
BAR	NO.	UNIT LENGTH	TOTAL LENGTH	LOCATION
401	28	9'-6"	266'-0"	LONGITUDINAL SLAB
402	20	13'-5"	268'-4"	TRANSVERSE SLAB
403	28	1'-0"	28'-0"	LONGITUDINAL SLEEPER SLAB
404	3	13'-5"	40'-3"	TRANSVERSE SLEEPER SLAB
TOTAL NO. 4 BARS = 602'-6" = 403 LBS.				
* TOTAL DEFORMED REINFORCING STEEL				= 403 LBS.
* CLASS A1 CONCRETE				= 3.03 CU. YDS.
* SAWCUT & SEAL				= 28 LIN. FT.
* BEDDING MATERIAL				= 5.2 CU. YD.
SEALED EXPANSION JOINT				= 36 LN. FT
CONCRETE APPROACH SLAB				= 139 SQ. FT

* FOR INFORMATIONAL PURPOSES ONLY, ALL LABOR AND MATERIALS TO BE PAID FOR UNDER CONCRETE APPROACH SLABS (CAST-IN-PLACE)

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10.3.25

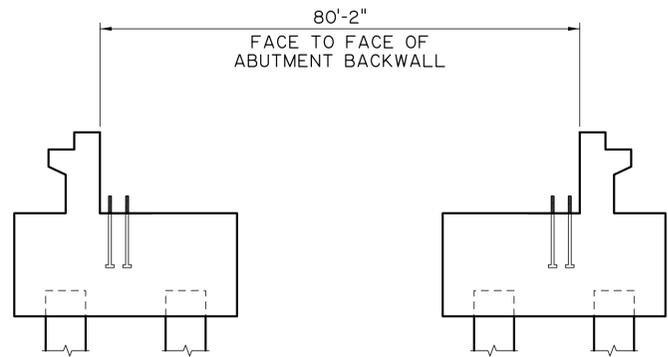
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DRAWN BY: D. FONT.
APPROVED BY: D. BINET
DATE: 10/2/2025

APPROACH SLAB DETAILS
TAMMANY TRACE BRIDGE #24
DRAWING NUMBER: 108

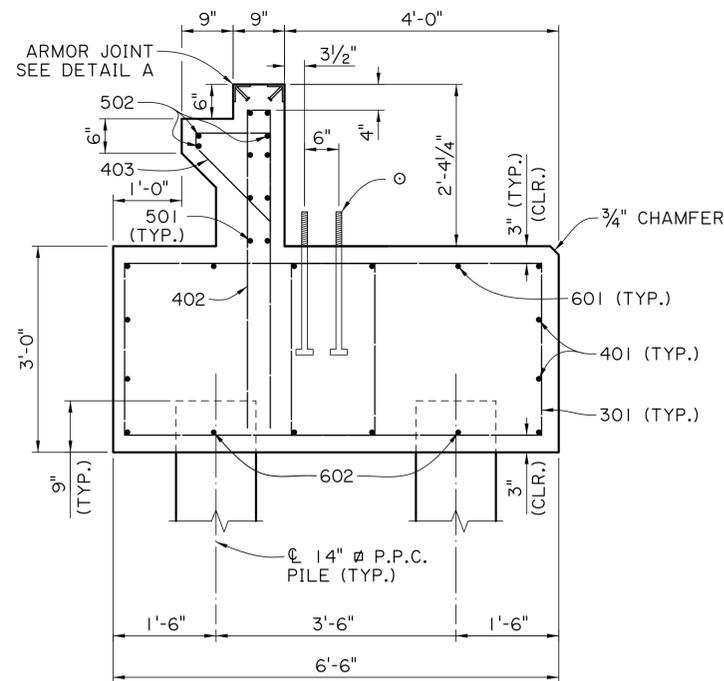


NOTES:

- 1. ALL CONCRETE SHALL BE CLASS A1.
- 2. ALL REINFORCING SHALL BE ASTM A615 GR 60.
- 3. ALL REBAR BENDS SHALL CONFORM TO CURRENT ACI DETAILING REQUIREMENTS.

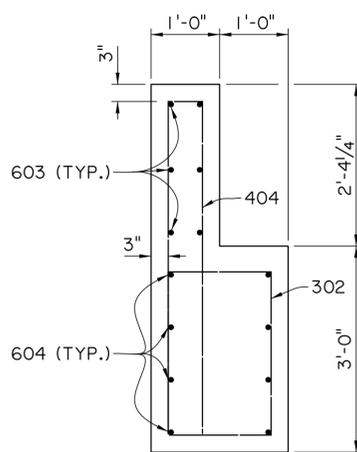


BRIDGE ABUTMENT ELEVATION
SCALE: N.T.S.

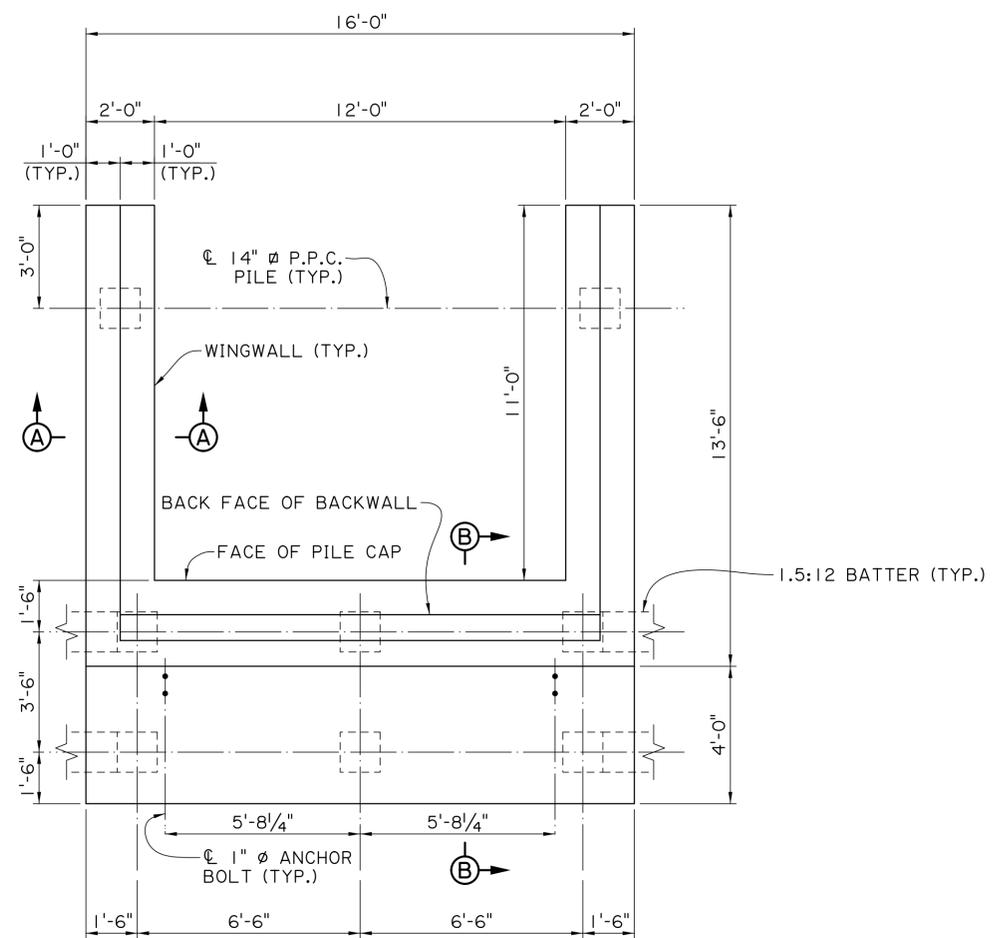


SECTION B-B
SCALE: 3/4" = 1'-0"

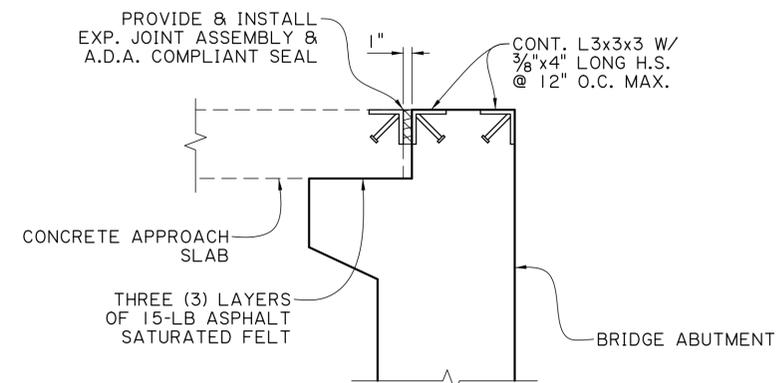
○ 4 ANCHOR BOLTS PER ABUTMENT
1" Ø X 2'-0" F1554 GR. 105
GALVANIZED THREADED ROD W/
2 NUTS & 2 1/2" O.D. WASHER TOP
W/ BOT NUT REF DETAIL 2 FOR
ROD LOCATIONS PROVIDE 10"
ROD PROJECTION (TYP.)



SECTION A-A
SCALE: 3/4" = 1'-0"



BRIDGE ABUTMENT PLAN
SCALE: 3/4" = 1'-0"



DETAIL A
N.T.S.

NOTE: HEADED STUDS & ANGLES
SHALL BE HOT DIP GALVANIZED
AFTER WELDING STUDS TO ANGLES

NO.	DATE:	DESCRIPTION:	BY:	CHK:	APP:

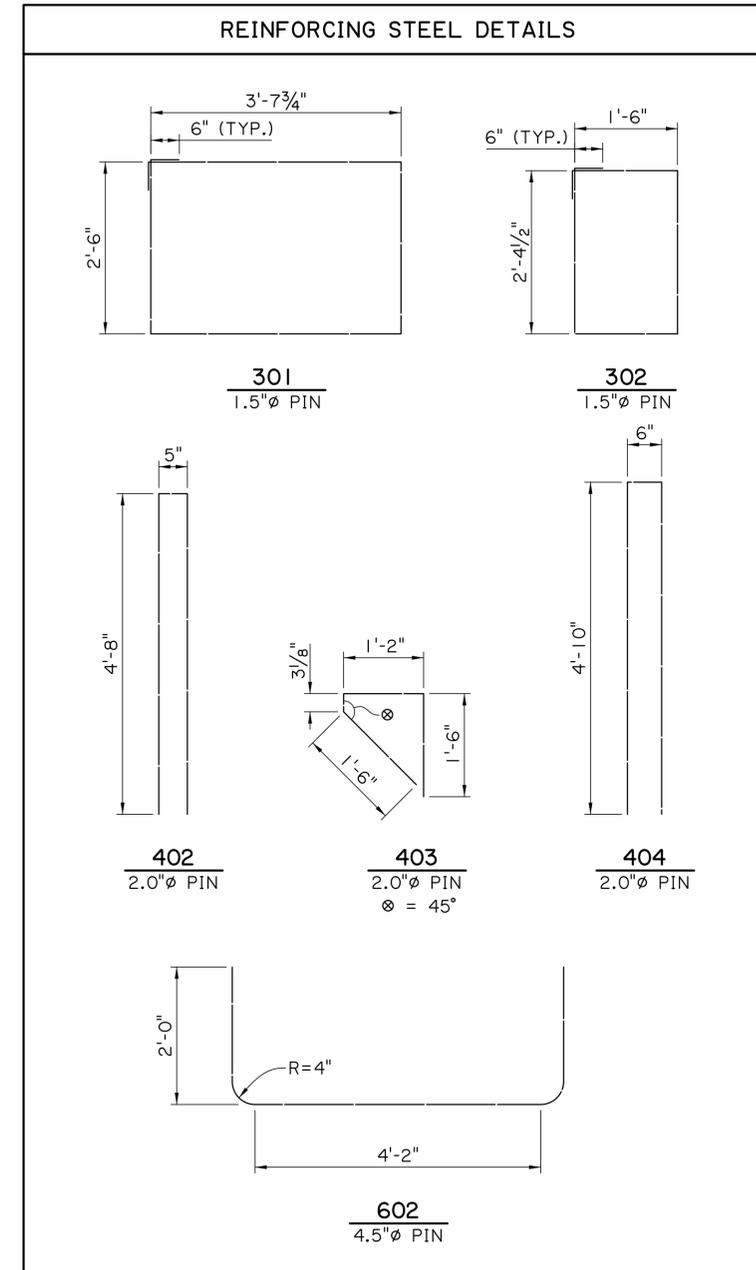
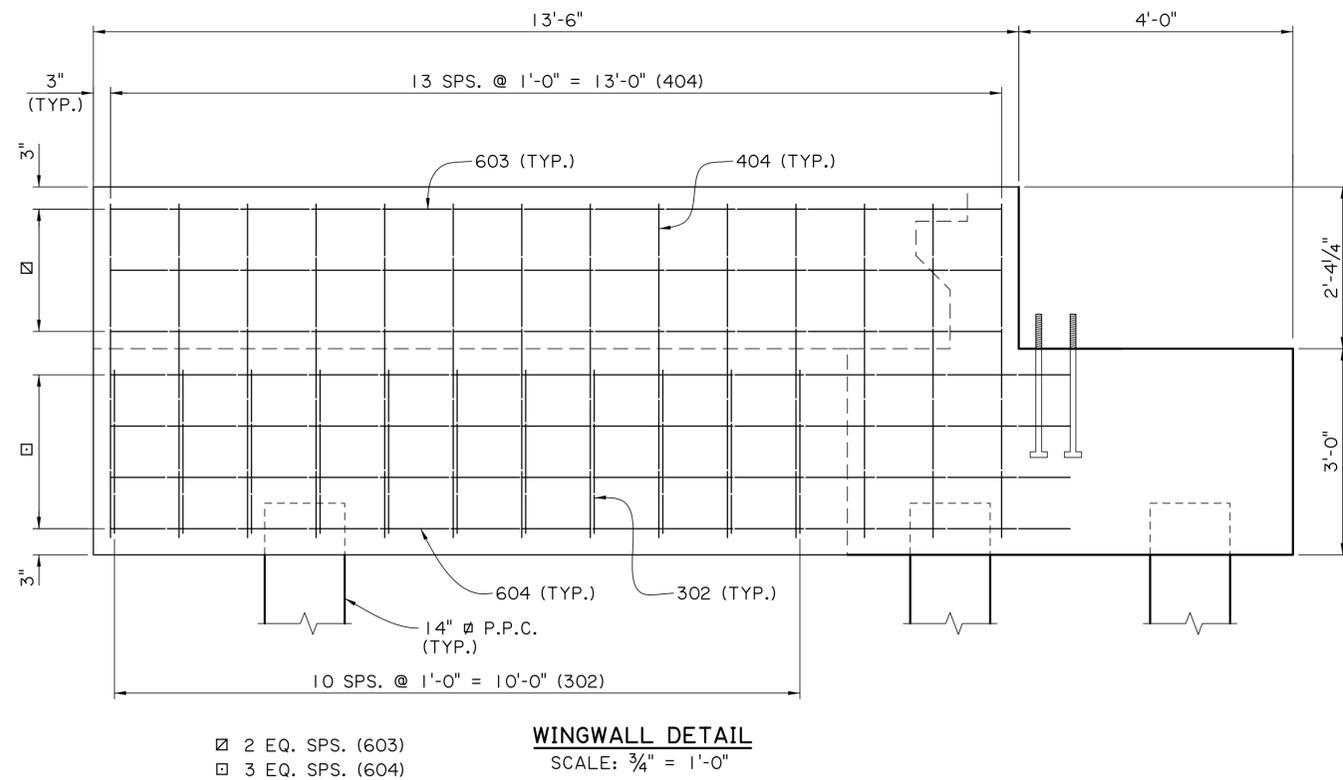
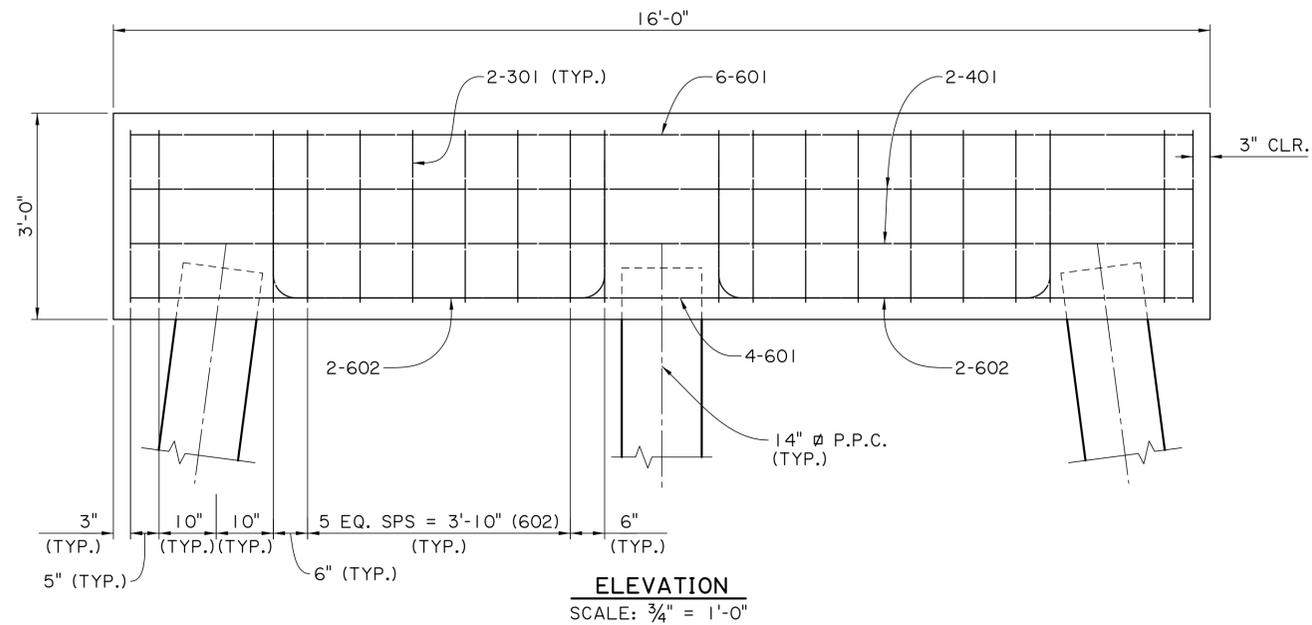
T. BAKER SMITH
A CENTURY OF SOLUTIONS
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Metairie, LA 70003
(504) 323-3460 - tbsmith.com
LA Eng Firm #: EF.0003388

DANIEL J. BINET
License No. 42997
PROFESSIONAL ENGINEER
IN
LOUISIANA
10.3.25

PROJECT NO: PPSL-VSF No. 24-35-5
DRAWN BY: D. FONT.
APPROVED BY: D. BINET
DATE: 10/2/2025

BRIDGE ABUTMENT & WINGWALL DETAILS
TAMMANY TRACE BRIDGE #24
DRAWING NUMBER: 109





NO.	DATE	DESCRIPTION	BY	CHK	APP

T. BAKER SMITH
A CENTURY OF SOLUTIONS
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(504) 323-3460 - tbsmith.com
LA Eng Firm # EF.0003388

STATE OF LOUISIANA
DANIEL J. BINET
License No. 42997
PROFESSIONAL ENGINEER
IN
10.3.25

PROJECT NO:
PPSL-VSF No. 24-35-5

DRAWN BY: D. FONT.

APPROVED BY: D. BINET

DATE: 10/2/2025

BRIDGE ABUTMENT &
WINGWALL DETAILS

TAMMANY TRACE BRIDGE #24

DRAWING NUMBER: 110

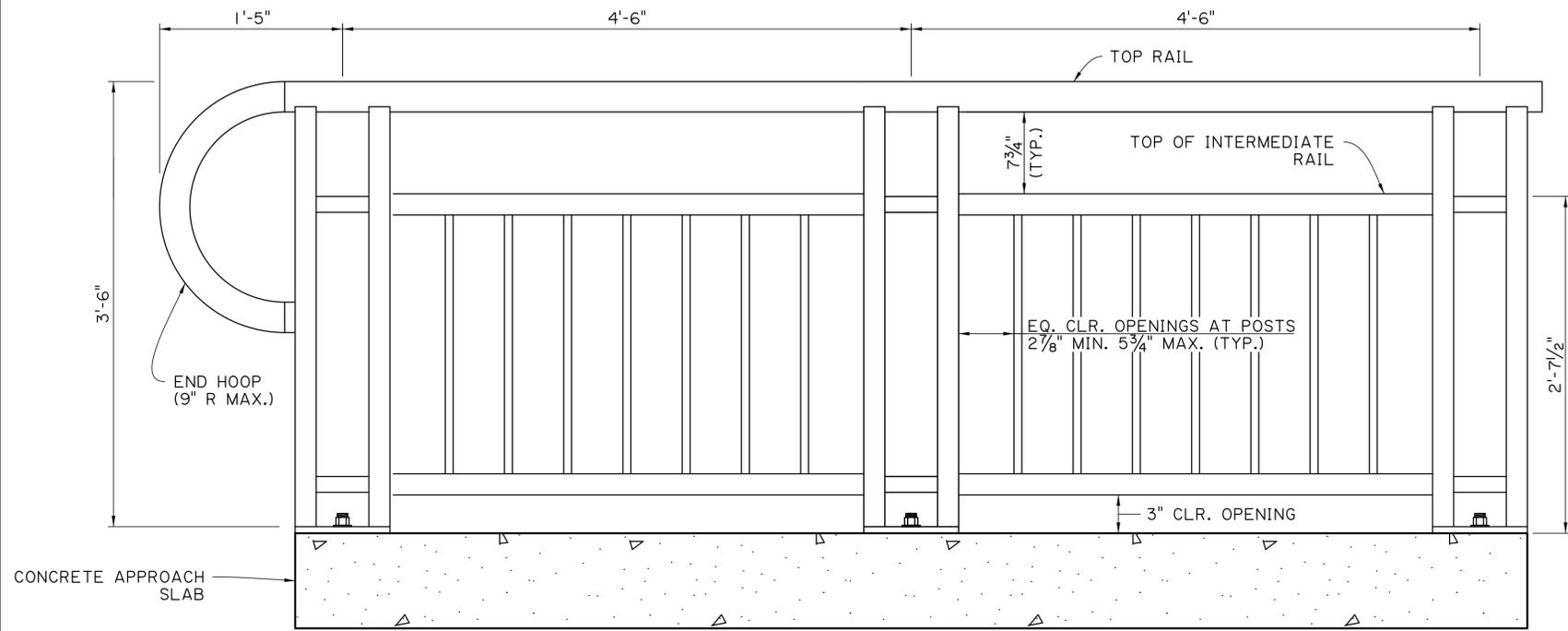


10/3/2025

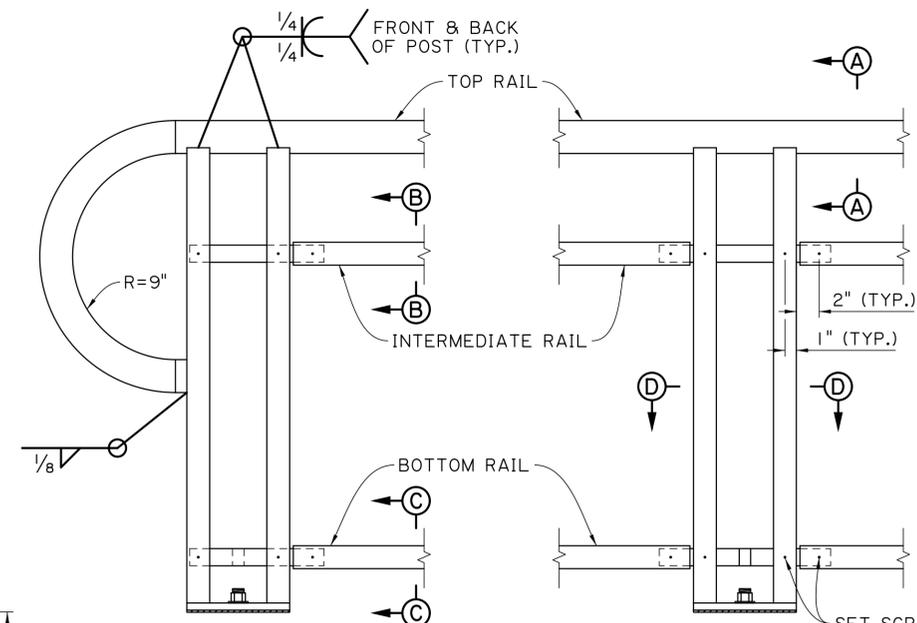
FINAL PLANS

P:\Y-2024\2024.0388\ENG\Drawings\Bridges\24100% Final Plans\111 - Pedestrian Handrail.dgn

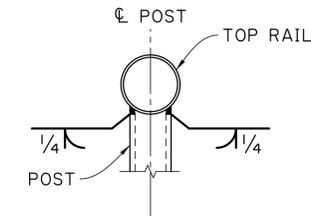
RAILING MEMBERS				
MEMBER	ALLOY	DESIGNATION	OUTER DIMENSION	WALL THICKNESS
POSTS	6061-T6	RT 2x2x0.250	2.00" x 2.00"	0.250"
TOP RAIL	6061-T6	2 1/2" NPS (SCH. 10)	2.875"	0.120"
END HOOPS	6063-T5	2 1/2" NPS (SCH. 10)	2.875"	0.120"
INT. & BOT. RAIL	6061-T6	RT 2x2x0.250	2.00" x 2.00"	0.250"
INT. & BOT. RAIL POST CONNECTION SLEEVE	6063-T5	1.50" OD x 0.125 WALL	1.500"	0.125"
PICKETS	6061-T6	3/4" ϕ ROUND BAR	0.750"	N/A
BASE PLATE	6061-T6	5/8" PL	0.625"	N/A
ALUMINUM SCREWS	2024-T4 OR 7075-T73	1/4" ϕ x 3/4" PAN HEAD	0.250"	N/A
STAINLESS STEEL SCREWS	TYPE 316 OR 18-8	1/4" ϕ x 3/4" PAN HEAD	0.250"	N/A



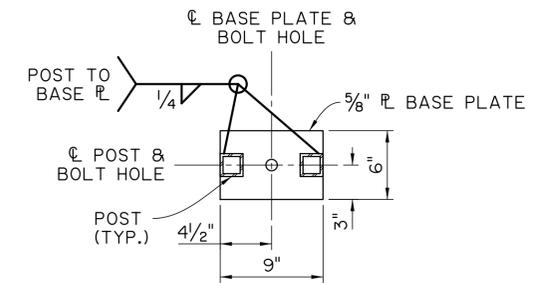
ELEVATION
(SHOWING OUTSIDE FACE OF RAILING)
TYPICAL RAILING DETAILS



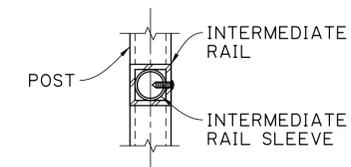
RAIL CONNECTIONS DETAIL
SHOWING INSIDE FACE OF RAILING
(PICKETS/PANELS NOT SHOWN FOR CLARITY)



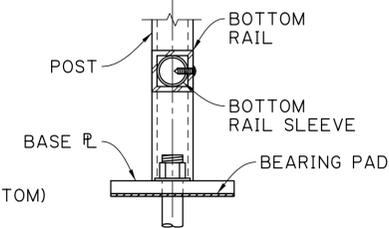
SECTION A-A
TOP RAIL CONNECTION



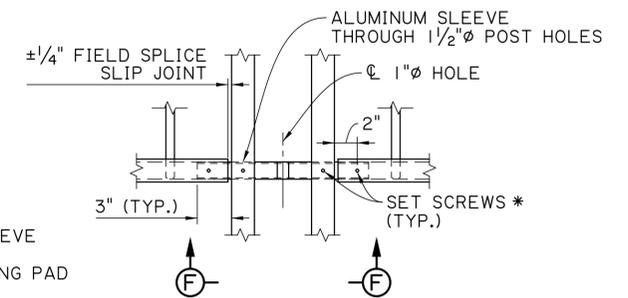
SECTION D-D
BASE PLATE DETAILS



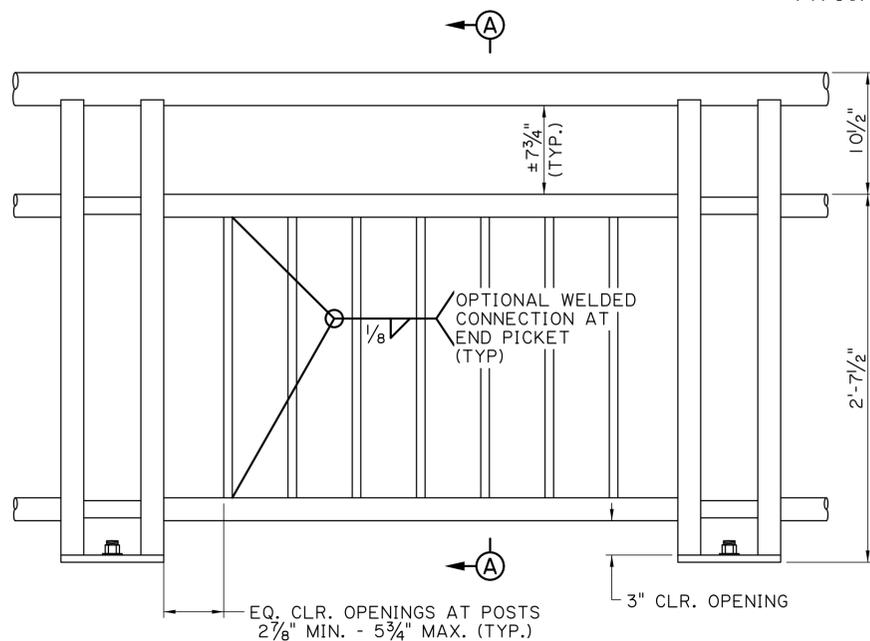
SECTION B-B
INTERMEDIATE RAIL CONNECTION



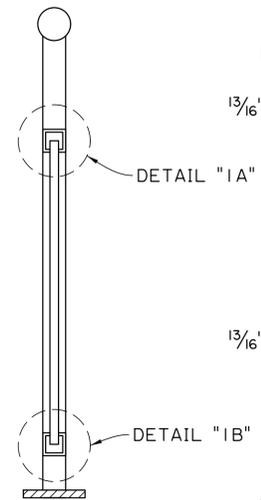
SECTION C-C
BOTTOM RAIL CONNECTION



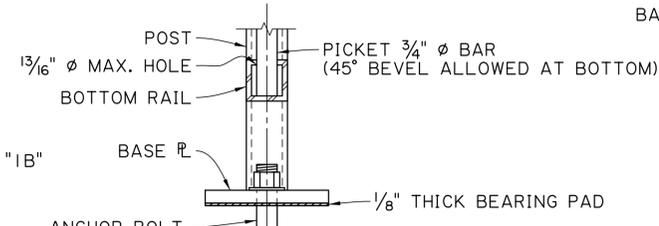
INTERMEDIATE OR BOTTOM RAIL (SQUARE)



PICKET INFILL PANEL
N.T.S



DETAIL "A"
(TOP OF PICKET CONNECTION)



DETAIL "B"
(BOTTOM OF PICKET CONNECTION)

RAIL CONNECTION NOTES:

* 1/4" ϕ x 3/4" PAN HEAD ALUMINUM OR STAINLESS STEEL SET SCREWS. SCREWS MUST BE SET FLUSH AGAINST THE OUTSIDE FACE OF RAILS & POSTS AND UNDERSIDE OF HANDRAILS. A SINGLE TACK WELD (1/2" MAX. LENGTH) AT TOP OF THE SLEEVE FOR EACH POST MAY BE SUBSTITUTED FOR THE SET SCREWS.

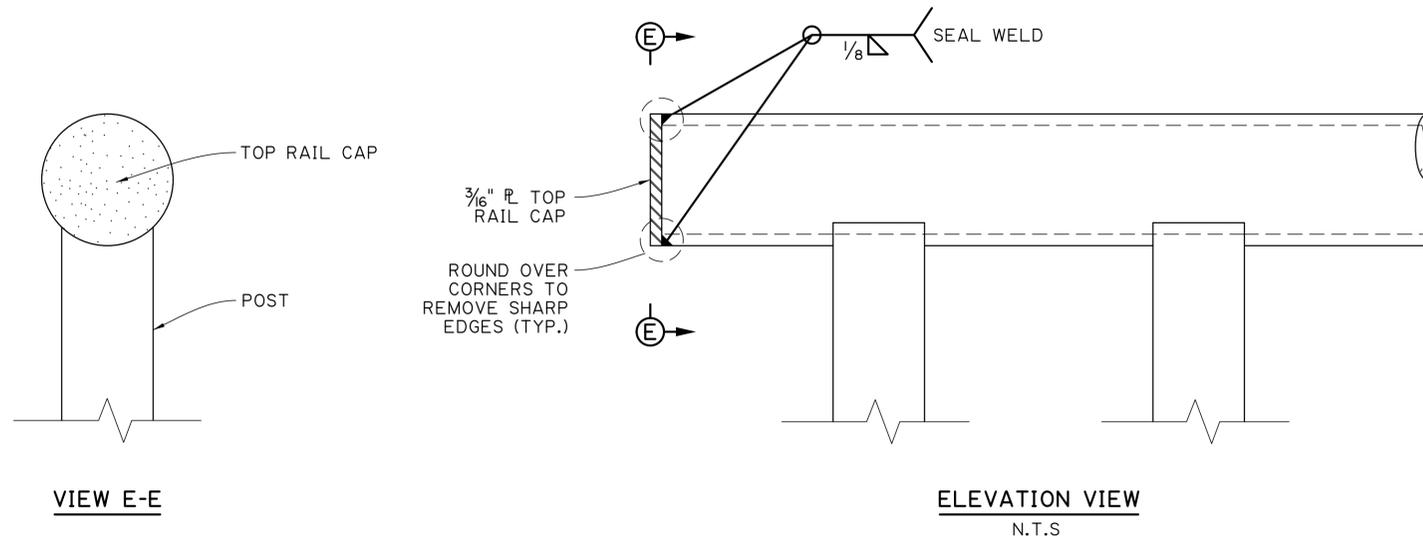
T. BAKER SMITH
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IN
STATE OF LOUISIANA
10.3.25

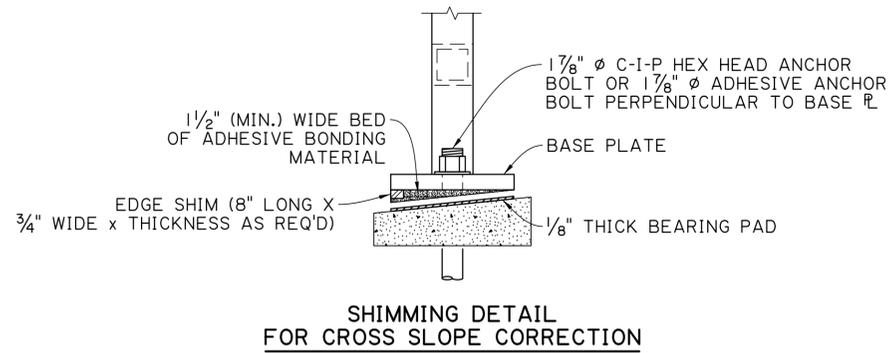
PROJECT NO: PPSL-VSF No. 24-35-5
DRAWN BY: D. FONT.
APPROVED BY: D. BINET
DATE: 10/2/2025

PEDESTRIAN HANDRAIL
DETAILS
TAMMANY TRACE BRIDGE #24
DRAWING NUMBER: 111

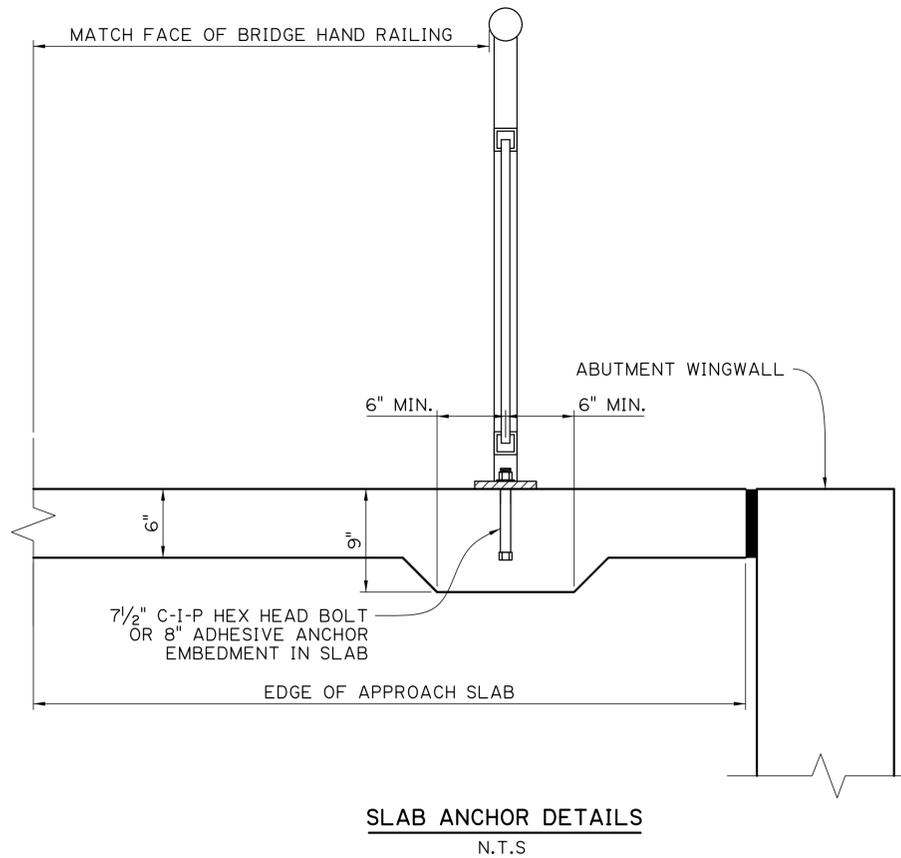




RAIL TERMINATION DETAILS
(WHEN END HOOP IS NOT USED)



SHIMMING DETAIL
FOR CROSS SLOPE CORRECTION



SLAB ANCHOR DETAILS
N.T.S

NO.	DATE:	DESCRIPTION:	BY:	CHK:	APP:

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IN
LOUISIANA
10.3.25

PROJECT NO:
PPSL-VSF No. 24-35-5

DRAWN BY: D. FONT.

APPROVED BY: D. BINET

DATE: 10/2/2025

PEDESTRIAN HANDRAIL
DETAILS

TAMMANY TRACE BRIDGE #24

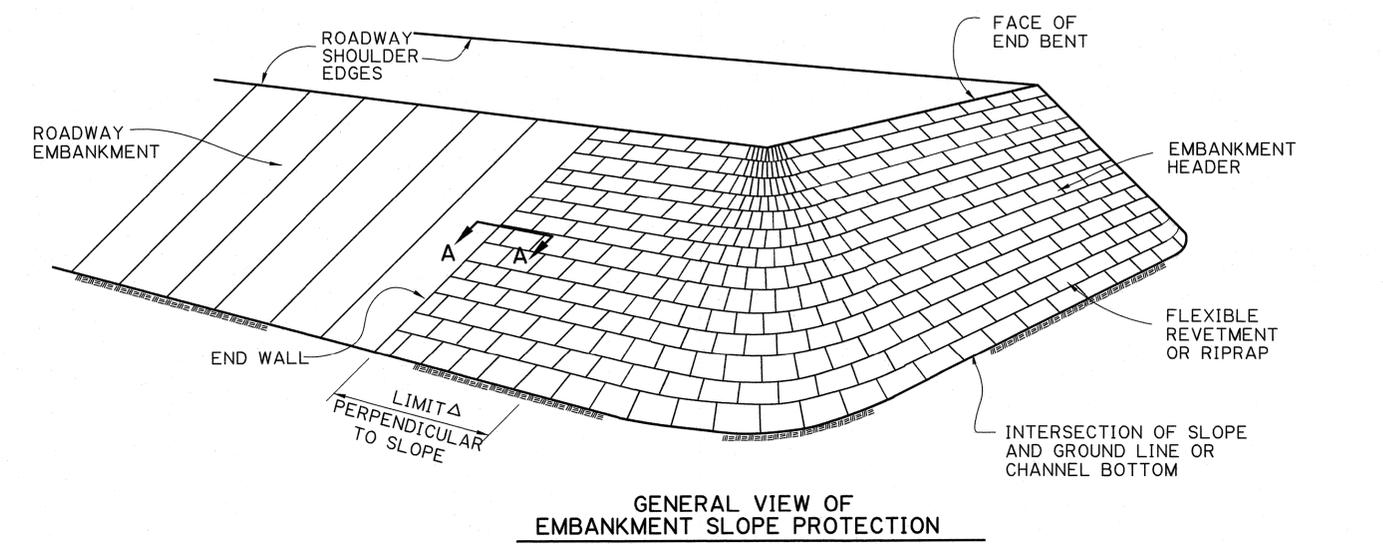
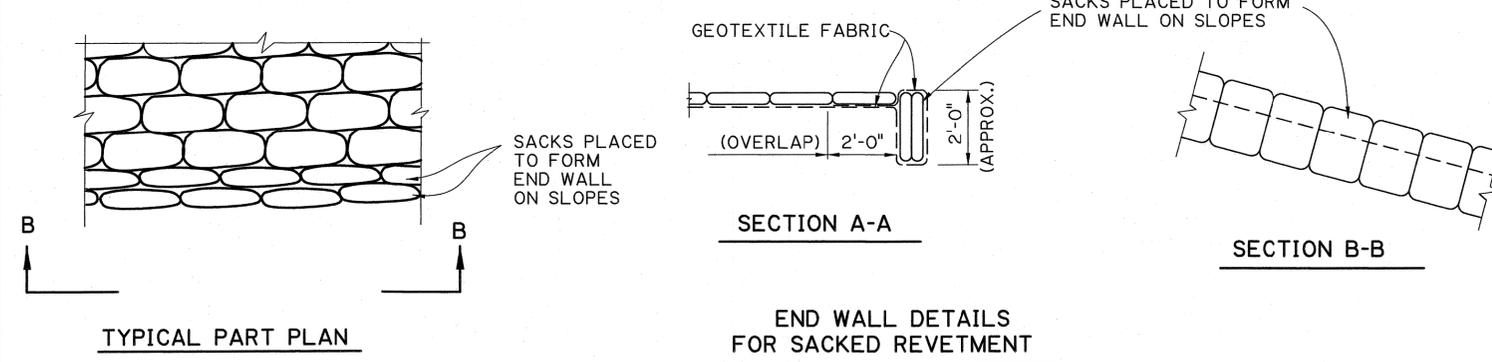
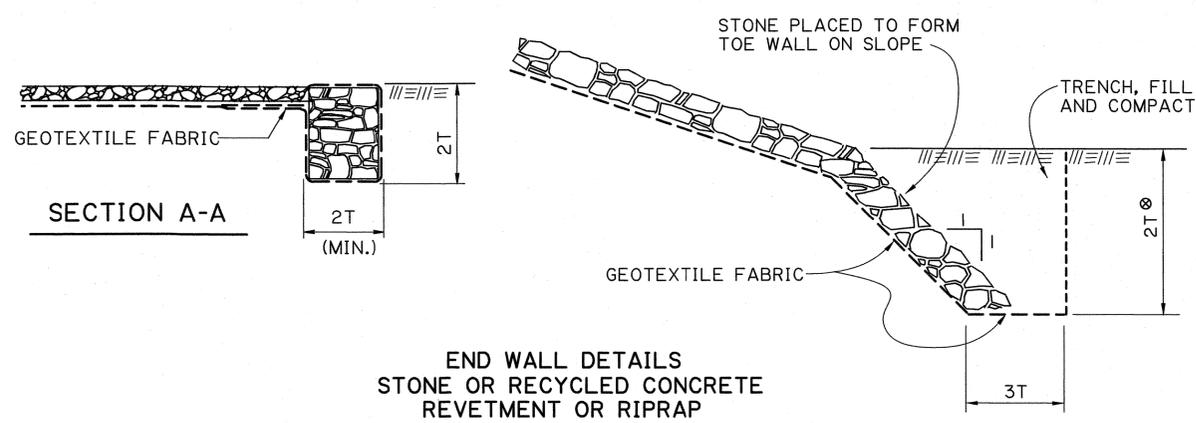
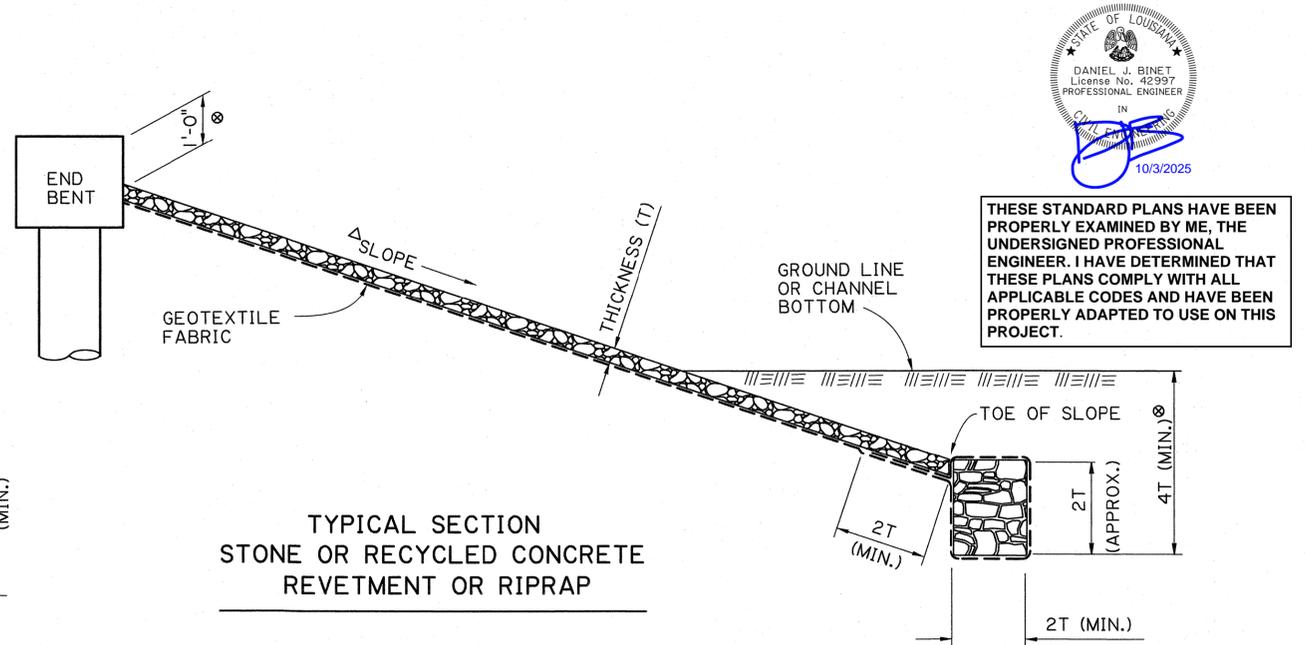
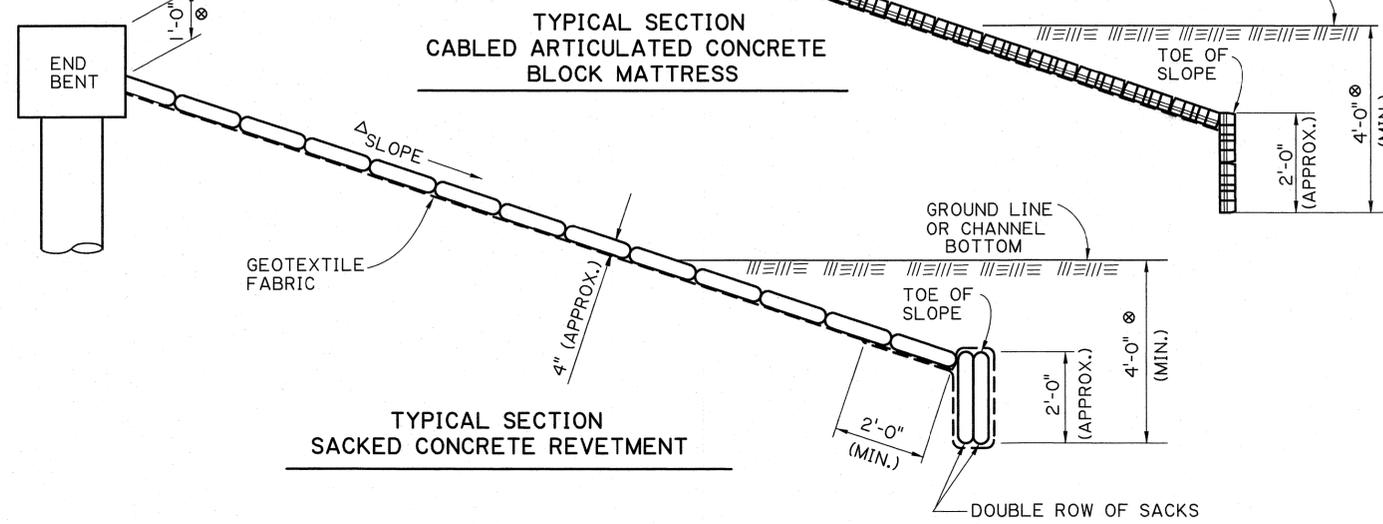
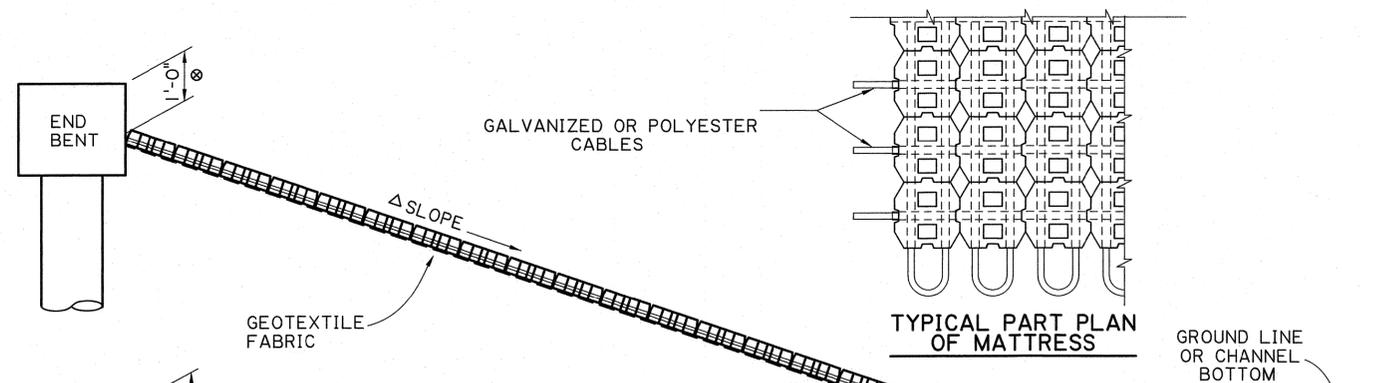
DRAWING NUMBER: 112





THESE STANDARD PLANS HAVE BEEN PROPERLY EXAMINED BY ME, THE UNDERSIGNED PROFESSIONAL ENGINEER. I HAVE DETERMINED THAT THESE PLANS COMPLY WITH ALL APPLICABLE CODES AND HAVE BEEN PROPERLY ADAPTED TO USE ON THIS PROJECT.

SHEET NUMBER	113
DESIGNED BY	A. ALLEN
CHECKED BY	G. GRASS
DATE	MAY, 2000
PROJECT	ARTICULATED CONCRETE MATTRESS
STATE	LA
REVISION	
BY	P.B.F.
DATE	12-18-09
NO.	1
REVISION DESCRIPTION	ARTICULATED CONCRETE MATTRESS
DETAIL	
STANDARD	BD.2.11.3.2.01 (FR-01)
BRIDGE AND STRUCTURAL DESIGN	



GENERAL NOTES:

RIPRAP AND FLEXIBLE REVETMENT SHALL BE PLACED IN ACCORDANCE WITH THE LATEST SECTIONS 711 AND 712 OF THE LOUISIANA STANDARD SPECIFICATIONS FOR ROADS AND BRIDGES.

GEOTEXTILE FABRIC WILL BE MEASURED AND PAID FOR UNDER ITS OWN PAY ITEM WHEN USED WITH RIPRAP BUT WILL BE CONSIDERED AN INCIDENTAL ITEM AND BE INCLUDED IN THE PAY ITEM FOR REVETMENT.

ALTERNATE DESIGNS MAY BE SUBMITTED TO THE HYDRAULIC ENGINEER FOR APPROVAL.

ELEVATION OF TOE OF SLOPE TO REMAIN CONSTANT FOR ALL PROTECTED SIDES OF THE EMBANKMENT, UNLESS OTHERWISE NOTED.

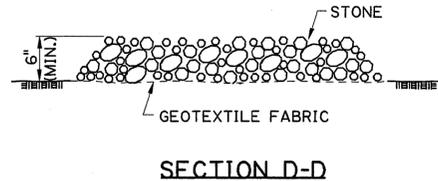
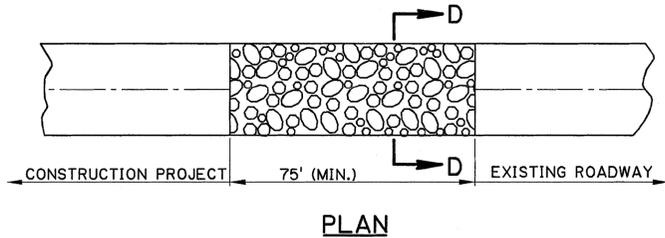
WHERE SLOPE PROTECTION FOR ADJACENT EMBANKMENTS INTERSECT, TERMINATE EACH WITH A TOE WALL AS DETAILED ON THIS SHEET EXCEPT WALLS ABUT.

RIPRAP CLASS (LBS.)	MINIMUM THICKNESS (T) (INCHES)
□ 30	14
* 55	18
* 130	24
* 250	30

- * STONE ONLY
- EQUIVALENT TO STONE OR RECYCLED CONCRETE REVETMENT.
- ⊗ UNLESS OTHERWISE SHOWN ON PLANS.
- Δ SEE GENERAL PLAN FOR EMBANKMENT HEADER SLOPE AND LIMITS OF SLOPE PROTECTION ALONG ROADWAY EMBANKMENT.



ALL DETAILS NTS



TEMPORARY STONE CONSTRUCTION ENTRANCE

PAY ITEM: TEMPORARY STONE CONSTRUCTION ENTRANCE

NOTES:

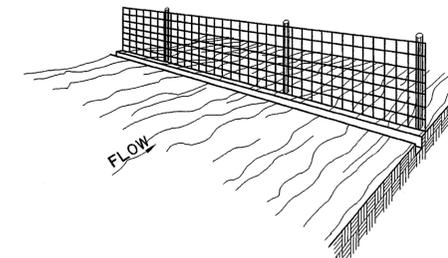
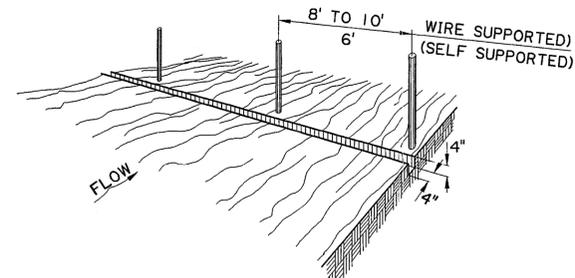
TEMPORARY STONE CONSTRUCTION ENTRANCE AND/OR WASH RACK

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.

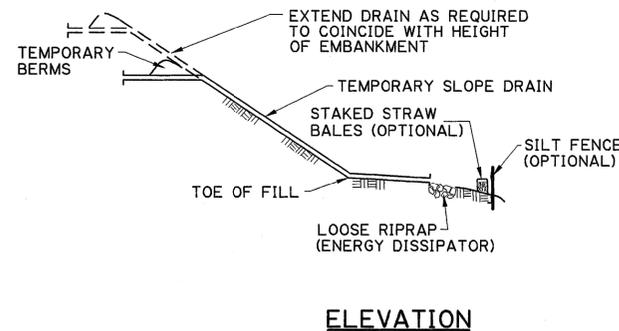
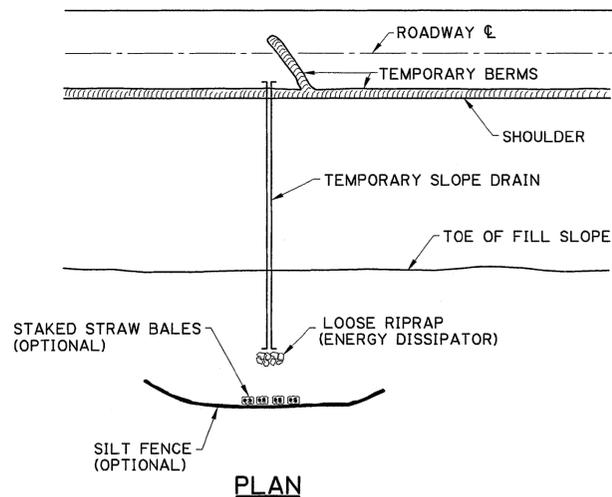
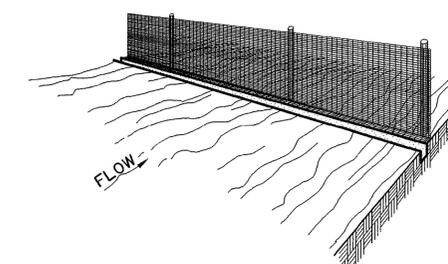
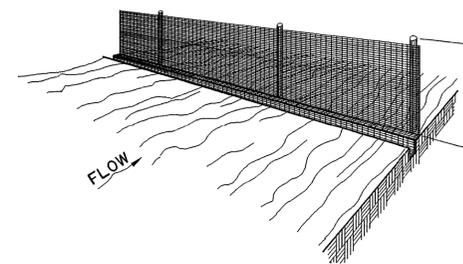
1. SET POSTS AND EXCAVATE A 4" X 4" TRENCH UPSLOPE ALONG THE LINE OF POSTS.

2. STAPLE WIRE FENCING TO THE POSTS.



3. ATTACH THE FILTER FABRIC TO THE WIRE FENCE AND EXTEND IT INTO THE TRENCH.

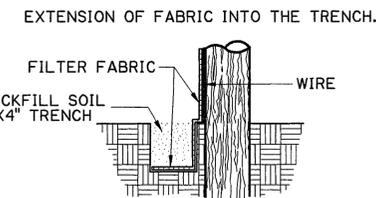
4. BACKFILL AND COMPACT EXCAVATED SOIL.



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.



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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	211
DESIGNED	JCM
CHECKED	KAJ
DATE	1-14-94
SHEET	2 OF 2
PARISH	LINCOLN 8 JACKSON
FEDERAL PROJECT	H01 4264
STATE PROJECT	H.O1 4264
REVISION DESCRIPTION	REVISIONS
DATE	DATE
10-1-08 REMOVE SPECIFIC PAY ITEM NOS., GENERAL REVISIONS	10-1-08
APPROVED BY	DATE
CHIEF ENGINEER: <i>W. H. Tenge</i>	10/3/2025
TEMPORARY EROSION CONTROL DETAILS	EC-01
HYDRAULICS SECTION	