



COUNTY OF GALVESTON

SPECIFICATIONS AND CONTRACT DOCUMENTS

LEE & JOE JAMAIL BAY PARK

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COUNTY OF GALVESTON
SPECIFICATIONS AND CONTRACT DOCUMENTS

LEE & JOE JAMAIL BAY PARK



Kristin Landry 4-28-15

Kristin L. Landry, P.E.
AECOM Technical Services, Inc.
TBPE Reg. No. F-3580

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SECTION I
Invitation to Bid
General Provisions
Vendor Qualification Packet
Instructions to Bidders

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ITB #B151017
OPEN: 06/04/2015
TIME: 2:00 P.M.

INVITATION TO BID LEE & JOE JAMAIL BAY PARK GALVESTON COUNTY, TEXAS

Sealed bids in sets of five (5), one (1) original and four (4) copies will be received in the office of the County Purchasing Agent until 2:00 P.M. CST, on 06/04/2015 and opened immediately in that office in the presence of the Galveston County Auditor and the Purchasing Agent. Sealed bids are to be delivered to Rufus G. Crowder, CPPO CPPB, Galveston County Purchasing Agent at the Galveston County Courthouse, 722 Moody (21st Street), Floor 5, Purchasing, Galveston, Texas 77550, (409) 770-5372. **The time stamp clock located in the Purchasing Agent's office shall serve as the official time keeping piece for this solicitation process. Any bid received after 2:00 P.M. CST on the specified date will be returned unopened.**

Purpose: Galveston County has heretofore developed plans and specifications dated April 2015, prepared by AECOM Technical Services, Inc., for the construction of the Lee & Joe Jamail Bay Park in the City of Galveston. Included in the package are construction plans for the 61st Street Boat Ramp, Washington Park, and the 61st Street Pedestrian Bridge. These plans include paving, drainage, structural, electrical, and landscaping work to be completed upon being awarded the project.

All proposals must be marked on the outside of the envelope:
ITB #B151017
LEE & JOE JAMAIL BAY PARK

Bidders name, return address, and the enclosed label should be prominently displayed on the bid package for identification purposes.

Specifications can be obtained on application at the office of the Galveston County Purchasing Agent, located in the Galveston County Courthouse, 722 Moody, (21st Street), Floor 5, Purchasing, Galveston, Texas 77550, or by visiting the Galveston County website @ <http://www.galvestoncountytexas.gov/pu/Pages/BidListing.aspx>.

Bid prices shall be either lump sum or unit prices as shown on the proposal sheet, if applicable. The net price will be delivered to Galveston County, including all freight, shipping, and license fees. Galveston County is tax exempt and no taxes should be included in your proposal pricing.

Upon satisfaction of contractual terms (e.g., goods delivered in promised condition, services rendered as agreed, etc.), contractor shall be paid via Galveston County's normal accounts payable process.

Bonding Requirements:

- **BID GUARANTEE:** Evidencing its firm commitment to engage in the contract if Bidder is selected for award of contract, each Bidder is required to furnish with their bid a Cashier's Check, or an acceptable Bidder's Bond in the amount of five percent (5%) of the total contract price. The Bidder's Bond must be executed with a surety company authorized to do business in the State of Texas. Failure to furnish the bid guarantee in the proper form and amount, by the time set for opening of bids may be cause or rejection of the bid.

- **PERFORMANCE AND PAYMENT BONDS**

Successful proposer, before beginning work, shall execute a performance bond and a payment bond, each of which must be in the amount of the contract. The required payment and performance bonds must each be executed by a corporate surety in accordance with Section 1, Chapter 87, Acts of the 56th Legislature, Regular Session, 1959 (Article 7.19-1, Vernon's Texas Insurance Code).

The Galveston County Commissioners' Court reserves the right to waive any informality and to reject any and all bids and to accept the bid or bids which, in its opinion, is most advantageous to Galveston County with total respect the governing laws.

Rufus G. Crowder, CPPO CPPB
Purchasing Agent
Galveston County

**LEE & JOE JAMAIL BAY PARK
GALVESTON COUNTY, TEXAS**

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GALVESTON COUNTY, TEXAS**

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**GENERAL PROVISIONS
LEE & JOE JAMAIL BAY PARK
GALVESTON COUNTY, TEXAS**

1. BID PACKAGE:

The Invitation to Bid, general and special provisions, drawings, specifications/line item details, contract documents and the Bid sheet are all part of the Bid package. BIDs must be submitted in sets of five (5), one (1) original and four (4) copies on the forms provided by the County if provided, including the Bid sheets completed in their entirety and signed by an authorized representative by original signature. Failure to complete and sign the Bid sheets/contract page(s) may disqualify the Bid from being considered by the Commissioners' Court. Any individual signing on behalf of the Bidder expressly affirms that he or she is duly authorized to tender this Bid and to sign the Bid sheet/contract under the terms and conditions in this bid. Bidder further understands that the signing of the contract shall be of no effect unless subsequently awarded and the contract properly executed by the Commissioners' Court. All figures must be written in ink or typed. Figures written in pencil or with erasures are not acceptable. However, mistakes may be crossed out, corrections inserted, and initialed in ink by the individual signing the bid. If there are discrepancies between unit prices quoted and extensions, the unit price shall prevail. Each Bidder is required to thoroughly review this entire Bid package to familiarize themselves with the Bid procedures, the plans and specifications for the requested work, as well as the terms, and conditions of the contract the successful Bidder will execute with the County.

2. BIDDER'S RESPONSIBILITY

The Bidder must affirmatively demonstrate its responsibility. The Bidder must also meet the following minimum requirements:

- A. have adequate financial resources or the ability to obtain such resources as required;
- B. be able to comply with all federal, state, and local laws, rules, regulations, ordinances and orders regarding this Request for Bid;
- C. have a satisfactory record of performance;
- D. have a satisfactory record of integrity and ethics;
- E. and be otherwise qualified and eligible to receive an award.

The criteria utilized for determining responsibility of Bidder(s) includes, but is not limited to, the Bidder's experience, skill, ability, business judgment, financial capacity, integrity, honesty, possession of the necessary facilities or equipment, previous performance, reputation, promptness, and any other factor deemed relevant by the County. The Bidders shall furnish any information requested by the County in order for the County to determine whether a Bidder is responsible.

3. TIME FOR RECEIVING BIDS:

Bids received prior to the submission deadline will be maintained unopened until the specified time for opening. If the Bidder fails to identify the Bid Number on the outside of the envelope as required, the Purchasing Agent will open the envelope for the sole purpose of identifying the Bid number for which the submission was made. The envelope will then be resealed. No liability will attach to a County office or employee for the premature opening of a bid. If you do not submit a bid, return this Invitation to Bid and state reason, otherwise your name may be removed from the Purchasing Agent's mailing list.

4. BID OPENING:

The names of the bidders and the pricing will be read aloud at the bid opening. Sealed bids will be received in the office of the County Purchasing Agent and opened immediately in that office in the presence of the County Auditor and the Purchasing Agent. No Bid may be withdrawn for a period of sixty (60) calendar days of the Bid opening date.

5. COMMISSIONERS' COURT:

No contract is binding on the County until it is properly placed on the Commissioners' Court agenda, approved in open Court, authorized to be executed by the County Judge, and fully executed by both parties.

**GENERAL PROVISIONS
LEE & JOE JAMAIL BAY PARK
GALVESTON COUNTY, TEXAS**

Department heads and elected officials are not authorized to enter into any type of agreement or contract on behalf of the County. Only the Commissioners' Court acting as a body may enter into a contract on behalf of and contractually bind the County. Additionally, department heads and elected officials are not authorized to agree to any type of supplemental agreements or contracts for goods or services. Supplemental agreements are subject to review by the County Legal Department prior to being accepted and signed by the County's authorized representative.

6. REJECTION OF BIDS/DISQUALIFICATION:

Galveston County, acting through its Commissioners' Court, reserves the right to :

- reject any and all Bids in whole or in part received by reason of this request for bid;
- to waive any informality in the Bids received;
- to disregard the Bid of any Bidder determined to be not responsible and/or;
- to discontinue its efforts for any reason under this Bid package at any time prior to actual execution of contract by the County.

Bidders may be disqualified and rejection of Bids may be recommended to the Commissioners' Court for any of (but not limited to) the following causes:

- A. Lack of signature by an authorized representative on the Bid form(s);
- B. Failure to properly complete the Bid;
- C. Bids that do not meet the mandatory requirements; and/or;
- D. Evidence of collusion among Bidders.
- E. Failure to use the Bid form(s) furnished by the County.

7. RESTRICTIVE OR AMBIGUOUS SPECIFICATIONS:

It is the responsibility of the prospective Bidder to review the entire Invitation to Bid packet and to notify the Purchasing Department if the specifications are formulated in a manner that would restrict competition or appear ambiguous. Any protest or question(s) regarding the specifications or Bid procedures must be received in the Purchasing Department not less than seventy-two (72) hours prior to the time set for Bid opening. Vendors are to submit Bid as specified herein or propose an approved equal.

8. SUBSTITUTES/DESCRIPTION OF MATERIALS AND EQUIPMENT:

Any brand name or manufacturer reference used herein is intended to be descriptive and not restrictive, unless otherwise noted, and is used to indicate the type and quality of material. The term "or equal" if used, identifies commercially produced items that have the essential performance and salient characteristics of the brand name stated in the item description. All supplies, material, or equipment shall be new and of the most suitable grade for the purpose intended. It is not the County's intent to discriminate against any materials or equipment of equal merit to those specified. However, if Bidder desires to use any substitutions, prior written approval must be obtained from the County Purchasing Agent and sufficiently in advance such that an addendum may be issued. All material supplied must be one hundred percent (100%) asbestos free. Bidder, by submission of its bid, certifies that if awarded any portion of this procurement, the bidder will supply only material and equipment that is 100% asbestos free.

9. EXCEPTIONS TO BID:

The Bidder will list on a separate sheet of paper any exceptions to the conditions of the bid. This sheet will be labeled, "Exceptions to Bid Conditions", and will be attached to the bid. If no exceptions are stated, it will be understood that all general and specific conditions will be complied with, without exception.

The Bidder must specify in its Bid any alternatives it wishes to propose for consideration by the County. Each alternative should be sufficiently described and labeled within the Bid and should indicate its possible or actual advantage to the program being offered.

**GENERAL PROVISIONS
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GALVESTON COUNTY, TEXAS**

The County reserves the right to offer these alternatives to other Bidders.

10. PRICING:

Bids will be either lump sum or unit prices as shown on the Bid sheet. The net priced items will be delivered to Galveston County, including all freight or shipping charges. Cash discount must be shown on bid, otherwise prices will be considered net. Unless prices and all information requested are complete, Bid may be disregarded and given no consideration. In case of default by the contractor, the County of Galveston may procure the articles or services from other sources and may deduct from any monies due, or that may thereafter become due to the contractor, the difference between the price named in the contract of purchase order and the actual cost thereof to the County of Galveston. Prices paid by the County of Galveston shall be considered the prevailing market price at the time such purchase is made. Periods of performance may be extended if the facts as to the cause of delay justify such extension in the opinion of the Purchasing Agent and the Commissioners' Court.

11. PROCUREMENT CARD PROGRAM:

The County of Galveston participates in a Procurement Card (P-Card) program that allows payments made to a vendor by credit card. This method normally results in substantially faster bill payments, sometimes within three (3) to five (5) days of the actual transaction date. All transaction fees from the card provider are to be paid by the successful contractor. If your company will accept payment via credit card (Visa, MasterCard), please notate this in your Bid submittal.

12. PASS THROUGH COST ADJUSTMENTS:

Except in instances of extreme extenuating circumstances Contractor prices shall remain firm throughout the Contract period and any renewals. Examples of extreme extenuating circumstances include such situations as a nationwide rail strike, oil shortage or oil embargo.

In extreme extenuating circumstances, Contractors may be allowed to temporarily "pass through" additional costs they are forced to incur through no fault of their own. A request for a pass through cost increase will not be considered unless a Contractor's cost for his product exceeds 10% over the original cost for the product. Also, the increase in cost must be nationwide and consistent for a minimum period of sixty (60) days. Costs that historically are anticipated to rise over a period of time (for example only, such as wages or insurance costs) do not qualify for pass through. If a Contractor thinks he will be asking for a pass through cost adjustment during the term of the contract, then the original cost of the product to Contractor must be stated in Contractor's original bid.

A request for a pass through cost does not guarantee that one will be granted. Contractors must submit such information on each request as is required by the County Purchasing Agent. The County Purchasing Agent will review each request on a case-by-case basis and determine the appropriateness of each request as well as amount and duration of increase. Contractors will not be permitted any additional compensation for mark-ups or profits based on the increase in price. Rather, such additional compensation will be limited to the actual increase in original cost to the Contractor as such increase is reflected by the original cost stated in the bid. But in no event will the amount of additional compensation exceed 25% increase in Contractor's original cost for his product as such cost is reflected in Contractor's original Bid or the duration exceed a period of sixty (60) days. In addition, should, during the period of the pass through, cost return to normal or decrease to below pre pass through prices, appropriate downward adjustments will be made. No more than one pass through adjustment will be permitted per year.

13. MODIFICATION OF BIDS:

A Bidder may modify a bid by letter at any time prior to the submission deadline for receipt of Bids. Modification requests must be received prior to the submission deadline. Modifications made before opening time must be initialed by Bidder guaranteeing authenticity. Bids may not be amended or altered after the official opening with the single exception that any product literature and/or supporting data required by the actual specifications, if any, will be accepted at any time prior to the Commissioners' Court considering of same.

**GENERAL PROVISIONS
LEE & JOE JAMAIL BAY PARK
GALVESTON COUNTY, TEXAS**

14. SIGNATURE OF BIDS:

Each Bid shall give the complete mailing address of the Bidder and be signed by an authorized representative by original signature with the authorized representative's name and legal title typed below the signature line. Each bid shall include the Bidder's Federal Employer Identification Number (FEIN). Failure to sign the Contract page(s) and bid response sheets may disqualify the bid from being considered by the County. The person signing on behalf of the Bidder expressly affirms that the person is duly authorized to tender the bid and to sign the bid sheets and contract under the terms and conditions of this Invitation to Bid and to bind the Bidder thereto and further understands that the signing of the contract shall be of no effect until it is properly placed on the Commissioners' Court agenda, approved in open Court, authorized to be executed by the County Judge, and fully executed by both parties.

15. AWARD OF BIDS:

The award will be made to the responsive, responsible Bidder whose bid is determined to be the best evaluated, lowest cost offer demonstrating the best ability to fulfill the requirements set forth in this Invitation to Bid. **The proposed cost to the County will be considered firm and cannot be altered after the submission deadline, unless the County invokes its right to request a best and final offer.**

Each Bidder, by submitting a bid, agrees that if their bid is accepted by the Commissioners' Court, such Bidder will furnish all items and services upon which prices have been tendered and upon the terms and conditions in this bid and contract.

The contractor shall commence work only after the transmittal of a fully executed contract and after receiving written notification to proceed from the County Purchasing Agent. The contractor will perform all services indicated in the bid in compliance with this contract.

Neither department heads nor elected officials are authorized to sign any binding contracts or agreements prior to being properly placed on the Commissioners' Court agenda and approved in open court. Department heads and other elected officials are not authorized to enter into any type of agreement or contract on behalf of Galveston County. Only the Commissioners' Court, acting as a body, may enter into a contract on behalf of the County. Additionally, department heads and other elected officials are not authorized to agree to any type of supplemental agreements or contracts for goods or services. Supplemental agreements are subject to review by the County Legal Department prior to being signed by the County's authorized representatives.

The County of Galveston reserves the right to accept bids on individual items listed, or group items, or on the bid as a whole; to reject any and all bids; to waive any informality in the bids; and to accept the bid that appears to be in the best interest of the County. The selection process may, however, include a request for additional information or an oral presentation to support the written bid.

The County reserves the right to reject any or all Bids in whole or in part received by reason of this Invitation to Bid and may discontinue its efforts under this Invitation to Bid for any reason or no reason or solely for the County's convenience at any time prior to actual execution of the contract by the County.

A Bidder whose bid does not meet the mandatory requirements set forth in this Invitation to Bid will be considered non-compliant.

The invitation to submit a bid which appears in the newspaper, or other authorized advertising mediums, these general provisions, the specifications which follow, the Bid sheets, and any addenda issued are all considered part of the Bid.

Each Bidder, by submitting a bid, agrees that if its bid is accepted by the Commissioners' Court, such Bidder will furnish all items and services upon the terms and conditions in this Invitation to Bid and the resultant contract.

**GENERAL PROVISIONS
LEE & JOE JAMAIL BAY PARK
GALVESTON COUNTY, TEXAS**

Notice of contract award will be made within ninety (90) days of opening of Bids to the lowest responsive and responsible contractor, whose bid complies with all the requirements in the Invitation to Bid.

Contractor shall submit to the County, for approval, within ten (10) days from notice of contract award, all Certificates of Insurance evidencing the required coverage as described under Insurance in the schedule of the Invitation to Bid.

The contractor shall not commence work under these terms and conditions of the contract until all required and applicable Certificates of Insurance, Performance and Payment Bonds, and Irrevocable Letters of Credit have been approved by the County of Galveston and the Contractor has received notice to proceed in writing and an executed copy of the contract from the County Purchasing Agent.

16. DISPUTE AFTER AWARD/PROTEST:

Any actual or prospective Bidder who is allegedly aggrieved in connection with the solicitation of this Invitation to Bid or award of a contract resulting therefrom may protest. The protest shall be submitted in writing to the Purchasing Agent within seven (7) calendar days after such aggrieved person knows of or should have known of the facts giving rise thereto. If the protest is not resolved by mutual agreement, the Purchasing Agent will promptly issue a decision in writing to the protestant. If the protestant wishes to appeal the decision rendered by the Purchasing Agent, such appeal must be made to the Commissioners' Court through the Purchasing Agent. The decision of the Commissioners' Court will be final. The Commissioners' Court need not consider protests unless this procedure is followed.

17. PUBLIC INFORMATION ACT:

The parties agree that the County is a governmental body for purposes of the Public Information Act, codified as Chapter 552 of the Texas Government Code and as such is required to release information in accordance with the Public Information Act. Bidder agrees that it has **clearly and conspicuously** marked any information that it considers to be confidential, proprietary, and/or trade secret in its Bid. County agrees to provide notice to Bidder in accordance with the Public Information Act in the event the County receives a request for information under the Public Information Act for information that the Bidder has marked as confidential, proprietary, and/or trade secret.

18. BIDDER'S EMAIL ADDRESSES:

Notwithstanding the foregoing Section 17, Bidder acknowledges and agrees that the confidentiality of any and all email addresses it uses or discloses in communicating with the County are open to the public in accordance with Section 552.137 of the Government Code and consents to the release of its email addresses.

19. RESULTANT CONTRACT:

Bidder shall correctly and fully execute the resultant contract first. Afterwards, the contract shall be set for consideration by the Commissioners' Court. If the Commissioners' Court authorizes the execution of the contract, the resultant contract shall become effective upon the Commissioners' Court execution of same. Contract documents shall consist of the contract, the general and special provisions, the drawings, bid package (including best and final offer(s) if such is utilized), any addenda issued, and any change orders issued during the work.

If applicable to the attached, Bidder must sign three (3) original contracts and return with their bid submittal.

Bidder should submit a proposed contract with its Bid or its sample material terms and conditions.

20. CONTRACT TERM:

The term of the resultant contract will begin on the date of execution by the Commissioners' Court and will terminate on the date specified in the resultant contract unless terminated earlier as herein set forth.

**GENERAL PROVISIONS
LEE & JOE JAMAIL BAY PARK
GALVESTON COUNTY, TEXAS**

21. TERMINATION FOR DEFAULT:

Failure of either party in the performance of any of the provisions of this contract shall constitute a breach of contract, in which case either party may require corrective action within ten (10) days from date of receipt of written notice citing the exact nature of such breach. Failure of the party being notified to take corrective action within the prescribed ten (10) days, or failure to provide written reply of why no breach has occurred, shall constitute a Default of Contract.

All notices relating to default by Bidder of the provisions of the contract shall be issued by County by its Legal Department, and all replies shall be made in writing to the County Legal Department. Notices issued by or issued to anyone other than the County Legal Department shall be null and void and shall be considered as not having been issued or received.

Galveston County reserves the right to enforce the performance of this contract in any manner prescribed by law in the event of breach or default of this contract, and may contract with another party, with or without solicitation of bids or further negotiations. At a minimum, Bidder shall be required to pay any difference in service or materials, should it become necessary to contract with another source, plus reasonable administrative costs and attorney fees.

In the event of Termination for Default, Galveston County, its agents or representatives shall not be liable for loss of any profits anticipated to be made by Bidder.

In addition to the remedies stated herein, the County has the right to pursue other remedies permitted by law or in equity.

No waiver by either party of any event of default under this agreement shall operate as a waiver of any subsequent default under the terms of this agreement.

County reserves the right to terminate this contract immediately in the event Bidder:

- A. Fails to meet delivery or completion schedules; and/or
- B. Fails to otherwise perform in accordance with the accepted Bid and the contract.

22. TERMINATION FOR CONVENIENCE:

County may terminate this contract upon at least thirty (30) calendar days prior written notice for its convenience or for any reason deemed by the County to serve the public interest. County may terminate this contract upon thirty (30) calendar days prior written notice for any reason resulting from any governmental law, order, ordinance, regulations, or court order. In no event shall County be liable for loss of any profits anticipated to be made hereunder by Bidder should this contract be terminated early.

23. FORCE MAJEURE:

If by reason of Force Majeure either Party shall be rendered unable, wholly or in part, to carry out its responsibilities under this contract by any occurrence by reason of Force Majeure, then the Party unable to carry out its responsibility shall give the other Party notice and full particulars of such Force Majeure in writing within a reasonable time after the occurrence of the event, and such notice shall suspend the Party's responsibility for the continuance of the Force Majeure claimed, but for no longer period.

Force Majeure means acts of God, floods, hurricanes, tropical storms, tornadoes, earthquakes, or other natural disasters, acts of a public enemy, acts of terrorism, sovereign conduct, riots, civil commotion, strikes or lockouts, and other causes that are not occasioned by either Party's conduct which by the exercise of due diligence the Party is unable to overcome and which substantially interferes with operations.

**GENERAL PROVISIONS
LEE & JOE JAMAIL BAY PARK
GALVESTON COUNTY, TEXAS**

24. ESTIMATED QUANTITIES:

Any reference to quantities shown in the Invitation to Bid is an estimate only. Since the exact quantities cannot be predetermined, the County reserves the right to adjust quantities as deemed necessary to meet its requirements.

25. CONTRACTOR INVESTIGATION:

Before submitting a bid, each Bidder shall make all investigations and examinations necessary to ascertain all site conditions and requirements affecting the full performance of the contract and to verify any representations made by the County upon which the contractor will rely. If the contractor receives an award as a result of its bid submission, failure to have made such investigations and examinations will in no way relieve the contractor from its obligation to comply in every detail with all provisions and requirements of the contract, nor will a plea of ignorance of such conditions and requirements be accepted as a basis for any claim whatsoever by the contractor for additional compensation.

26. NO COMMITMENT BY COUNTY OF GALVESTON:

This Invitation to Bid does not commit the County of Galveston to award any costs or pay any costs, or to award any contract, or to pay any costs associated with or incurred in the preparation of a bid in response to this Invitation to Bid and does not commit the County of Galveston to procure or contract for services or supplies.

27. BID COSTS BORNE BY BIDDER:

Galveston County shall not be liable for any costs incurred by Bidder in preparation, production, or submission of a bid and shall not be liable for any work performed by Bidder prior to issuance of fully executed contract and properly issued notice to proceed. Galveston County shall not be liable for any costs incurred by Bidder by reason of attending a pre-Bid conference. Galveston County shall not be liable for any costs incurred by Bidder by reason of the County invoking use of best and final offers.

28. SINGLE BID RESPONSE:

If only one bid is received in response to the Invitation to Bid, a detailed cost bid may be requested of the single contractor. A cost/price analysis and evaluation and/or audit may be performed of the cost bid in order to determine if the price is fair and reasonable.

29. CHANGES IN SPECIFICATIONS:

If it becomes necessary to revise any part of this bid, a written notice of such revision will be provided to all Bidders in the form of addenda. The County is not bound by any oral representations, clarifications, or changes made in the written specifications by the County's employees, unless such clarification or change is provided to Bidders in a written addendum from the Purchasing Agent.

The County of Galveston reserves the right to revise or amend the specifications up to the time set for opening of bids. Such revisions and amendments, if any, shall be announced by amendments to the solicitation. Copies of such amendments shall be furnished to all prospective contractors in the form of an addendum. Prospective contractors are defined as those contractors listed on the County's Invitation to Bid list for this material/service or those who have obtained documents subsequent to the advertisement. If revisions and amendments require changes in quantities or prices proposed, or both, the date set for opening of bids may be postponed by such number of days as in the opinion of the County shall enable contractors to revise their bids. In any case, the bid opening shall be at least five (5) working days after the last amendment, and the amendment shall include an announcement of the new date if applicable, for the opening of bids.

30. BID IDEAS AND CONCEPTS:

The County reserves to itself the right to adopt or use for its benefit, any concept, plan, or idea contained in any bid.

**GENERAL PROVISIONS
LEE & JOE JAMAIL BAY PARK
GALVESTON COUNTY, TEXAS**

31. BID DISCLOSURES:

The names of those who submitted bids will not be made public information unless in conformity with the County Purchasing Act. No pricing or staffing information will be released. Bidders are requested to withhold all inquiries regarding their bid or other submissions until after an award is made. No communication is to be had with any County employee or official, other than the County Purchasing Agent, regarding whether a bid was received. Violations of this provision may result in the rejection of a bid.

32. WITHDRAWAL OF BID:

Bidders may request withdrawal of a sealed bid prior to the scheduled bid opening time provided the request for withdrawal is submitted to the Purchasing Agent in writing. No bids may be withdrawn for a period of sixty (60) calendar days after opening of the bids.

33. INDEMNIFICATION:

The contractor shall agree to assume all risks and responsibility for, and agrees to indemnify, defend, and save harmless, the County of Galveston, its elected and appointed officials and department heads, and its agents and employees from and against all claims, demands, suits, actions, recoveries, judgments, and costs and expenses including reasonable attorney's fees for the defense thereof in connection therewith on account of the loss of life, property or injury or damage to the person which shall arise from contractor's operations under this contract, its use of County facilities and/or equipment or from any other breach on the part of the contractor, its employees, agents or any person(s), in or about the County's facilities with the expressed or implied consent of the County. Contractor shall pay any judgment with cost which may be obtained against Galveston County resulting from contractor's operations under this contract.

Contractor agrees to indemnify and hold the County harmless from all claims of subcontractors, laborers incurred in the performance of this contract. Contractor shall furnish satisfactory evidence that all obligations of this nature herein above designated have been paid, discharged or waived. If Contractor fails to do so, then the County reserves the right to pay unpaid bills of which County has written notice direct and withhold from Contractor's unpaid compensation a sum of money reasonably sufficient to liquidate any and all such lawful claims.

34. REQUIREMENT OF AND PROOF OF INSURANCE:

The successful Bidder shall furnish evidence of insurance to the County Purchasing Agent and shall maintain such insurance as required hereunder or as may be required in the Special Provisions or resultant contract, if different. Contractor shall obtain and thereafter continuously maintain in full force and effect, commercial general liability insurance, including but not limited to bodily injury, property damage, and contractual liability, with combined single limits as listed below or as may be required by State or Federal law, whichever is greater.

- A. For damages arising out of bodily injury to or death of one person in any one accident :
ONE HUNDRED THOUSAND AND NO/100 (\$100,000.00) DOLLARS.
- B. For damages arising out of bodily injury to or death of two or more persons in any one accident:
THREE HUNDRED THOUSAND AND NO/100 (\$300,000.00) DOLLARS.
- C. For any injury to or destruction of property in any one accident :
ONE HUNDRED THOUSAND AND NO/100 (\$100,000.00) DOLLARS.

Insurance shall be placed with insurers having an A.M. Best's rating of no less than A. Such insurance must be issued by a casualty company authorized to do business in the State of Texas, and in standard form approved by the Board of Insurance Commissioners of the State of Texas, with coverage provisions insuring the public from loss or damage that may arise to any person or property by reason of services rendered by Contractor.

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Galveston County shall be listed as the additional insured on policy certificates and shall be provided with no less than thirty (30) calendar days prior notice of any changes to the policy during the contractual period.

Certificates of Insurance, fully executed by a licensed representative of the insurance company written or countersigned by an authorized Texas state agency, shall be filed with the County Purchasing Agent within ten (10) business days of issuance of notification from the County Purchasing Agent to Bidder that the contract is being activated as written proof of such insurance and further provided that Bidder shall not commence work under this contract until it has obtained all insurance required herein, provided written proof as required herein, and received written notice to proceed issued from the County Purchasing Agent.

Proof of renewal/replacement coverage shall be provided upon expiration, termination, or cancellation of any policy. Said insurance shall not be cancelled, permitted to expire, or changed without thirty (30) days prior written notice to the County.

Insurance required herein shall be maintained in full force and effect during the life of this contract and shall be issued on an occurrence basis. Contractor shall require that any and all subcontractors that are not protected under the Contractor's own insurance policies take and maintain insurance of the same nature and in the same amounts as required of Contractor and provide written proof of such insurance to Contractor. Proof of renewed/replacement coverage shall be provided upon expiration, termination, or cancellation of any policy. Contractor shall not allow any subcontractor to commence work on the subcontract until such insurance required for the subcontractor has been obtained and approved.

Workers' Compensation Insurance: Successful Bidder shall carry in full force Workers' Compensation Insurance Policy(ies), if there is more than one employee, for all employees, including but not limited to full time, part time, and emergency employees employed by the successful Bidder. Current insurance certificates certifying that such policies as specified above are in full force and effect shall be furnished by successful Bidder to the County.

Insurance is to be placed with insurers having a Best rating of no less than A. The Bidder shall furnish the County with certificates of insurance and original endorsements affecting coverage required by these insurance clauses within ten (10) business days of receiving notification from the County Purchasing Agent that the contract is being activated. The certificates and endorsements for each insurance policy are to be signed by a person authorized by the insurer to bind coverage on its behalf. The Bidder shall be required to submit annual renewals for the term of this contract prior to expiration of any policy.

In addition to the remedies stated herein, the County has the right to pursue other remedies permitted by law or in equity.

The County agrees to provide Bidder with reasonable and timely notice of any claim, demand, or cause of action made or brought against the County arising out of or related to utilization of the property. Bidder shall have the right to defend any such claim, demand, or cause of action at its sole cost and expense and within its sole and exclusive discretion. The County agrees not to compromise or settle any claim or cause of action arising out of or related to the utilization of the property without the prior written consent of the Bidder.

In no event shall the County be liable for any damage to or destruction of any property belonging to the Bidder.

35. BID GUARANTEE:

Unless specified differently within the Special Provisions of this procurement, each Bidder shall be required to submit a bid guarantee with its proposal as required within this Section Evidencing its firm commitment to engage in contract if Bidder is selected for award of contract, each Bidder is required to furnish with their bid a Cashier's Check or an acceptable Bidder's Bond in the amount of five percent (5%) of the total contract price. If Bidder is using a bond,

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then the bidder's bond must be executed with a surety company authorized to do business in the State of Texas. Failure to furnish the bid guarantee in the proper form and amount, by the time set for opening of bids may be cause for rejection of the bid.

The Cashier's Check or Bidder Bond (as applicable) will be returned to each respective unsuccessful Bidder(s) subsequent to the Commissioners' Court award of contract, and shall be returned to the successful Bidder upon the completion and submission of all contract documents. Provided, however, that the Cashier's Check or Bidder Bond will be forfeited to the County as liquidated damages should successful Bidder fail to execute the contract within thirty (30) days after receiving notice of the acceptance of its bid.

36. PERFORMANCE AND PAYMENT BONDS:

Successful Bidder, before beginning work, shall execute a performance bond and a payment bond, each of which must be in the amount of the contract. The required payment and performance bonds must each be executed by a corporate surety in accordance with Section 1, Chapter 87, Acts of the 56th Legislature, Regular Session, 1959 (Article 7.19-1, Vernon's Texas Insurance Code).

The performance and payment bonds must clearly and prominently display on the bond or on an attachment to the bond:

- A. The name, mailing address, physical address, and telephone number, including the area code, of the surety company to which any notice of claim should be sent; or
- B. The toll-free telephone number maintained by the Texas Department of Insurance under Subchapter B, Chapter 521, Insurance Code, and a statement that the address of the surety company to which any notice of claim should be sent may be obtained from the Texas Department of Insurance by calling the toll free-telephone number.

The performance bond shall be solely for the protection of Galveston County, in the full amount of the contract, and conditioned on the faithful performance of the work in accordance with the plans, specifications, and contract documents. The payment bond is solely for the protection and use of payment bond beneficiaries who have a direct contractual relationship with the prime contractor or a subcontractor to supply public work labor or material, and in the amount of the contract.

The payment and performance bonds required to be furnished herein must be furnished before the contractor begins work and are a requirement for issuance of a Notice to Proceed. Such bonds must be furnished to the Galveston County Purchasing Agent within thirty (30) days after the date of signing of the contract or receiving notice from the Purchasing Agent that the contract has been fully executed. Failure to provide the required payment and performance bonds within the required business days shall constitute an event of default under this contract. Contractor shall not commence work until all applicable certificates of insurance, performance, and payment bonds have been received and approved by the County Purchasing Agent and the Contractor receives notice to proceed in writing that has been issued by the County Purchasing Agent.

Additionally, if this Invitation To Bid is for the award of a public works contract, then compliance with Chapter 2253 of the Texas Government Code, which is known as the McGregor Act, is mandatory. Performance and payment bonds are required to be furnished in accordance with Chapter 2253 of the Texas Government Code. Bidder should familiarize itself with the entire provisions of Chapter 2253 of the Texas Government Code.

37. PATENT AND COPYRIGHT PROTECTION:

The Bidder agrees at its sole expense to protect the County from claims involving infringement of patents or copyrights. **Bidder shall indemnify and save harmless the County of Galveston, its officers, employees, and**

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agents, from liability of any nature and kind whatsoever, including without limitation cost and expenses, for or on account of any copyrighted, patented or un-patented invention, process, or article manufactured or used in the performance of the contract, including its use by the County. Bidder also agrees that if Bidder is awarded this contract, that no work performed hereunder shall be subject to patent, copyright, or other intellectual property by Bidder.

38. CONFLICT OF INTEREST DISCLOSURE REPORTING:

Bidder may be required under Chapter 176 of the Texas Local Government Code to complete and file a conflict of interest questionnaire (CIQ Form). If so, the completed CIQ Form must be filed with the County Clerk of Galveston County, Texas.

If Bidder has an employment or other business relationship with an officer of Galveston County or with a family member of an officer of Galveston County that results in the officer or family member of the officer receiving taxable

income that exceeds \$2,500.00 during the preceding 12-month period, then Bidder **MUST** complete a CIQ Form and file the original of the CIQ Form with the County Clerk of Galveston County.

If Bidder has given an officer of Galveston County or a family member of an officer of Galveston County one or more gifts with an aggregate value of more than \$250.00 during the preceding 12-months, then Bidder **MUST** complete a CIQ Form and file the original of the CIQ Form with the County Clerk of Galveston County.

The Galveston County Clerk has offices at the following locations:

Galveston County Clerk
Galveston County Justice Center, Suite 2001
600 59th Street
Galveston, Texas 77551

Galveston County Clerk
North County Annex, 1st Floor
174 Calder Road
League City, Texas 77573

Again, if Bidder is required to file a CIQ Form, the original completed form is filed with the Galveston County Clerk (not the Purchasing Agent).

For Bidder's convenience, a blank CIQ Form is enclosed with this bid package. Blank CIQ Forms may also be obtained by visiting the Galveston County Clerk's website and/or the Purchasing Agent's website – both of these websites are linked from the Galveston County homepage, at <http://www.co.galveston.tx.us>.

As well, blank CIQ Forms may be obtained by visiting the Texas Ethics Commission website, specifically at http://www.ethics.state.tx.us/whatsnew/conflict_forms.htm.

Chapter 176 specifies deadlines for the filing of CIQ Forms (both initial filings and updated filings).

It is Bidder's sole responsibility to file a true and complete CIQ Form with the Galveston County Clerk if Bidder is required to file by the requirements of Chapter 176 of the Local Government Code. Bidder is advised that it is an offense to fail to comply with the disclosure reporting requirements dictated under Chapter 176 of the Texas Local Government Code.

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If you have questions about compliance with Chapter 176, please consult your own legal counsel. Compliance is the individual responsibility of each person, business, and agent who is subject to Chapter 176 of the Texas Local Government Code.

39. COMPETITIVENESS AND INTEGRITY:

To prevent biased evaluations and to preserve the competitiveness and integrity of such acquisition efforts, **Bidders are to direct all communications regarding this Bid to the Galveston County Purchasing Agent, unless otherwise specifically noted.**

Do not contact the requesting department. Attempts by offering firms to circumvent this requirement will be viewed negatively and may result in rejection of the offer of the firm found to be in non-compliance.

All questions regarding this Request for Bid must be submitted in writing to:

**Rufus Crowder, CPPO CPPB
Galveston County Purchasing Agent
722 Moody, (21st Street)
Fifth (5th) Floor, Purchasing
Galveston, Texas 77550 Fax: (409) 621-7997
E-mail: rufus.crowder@co.galveston.tx.us**

An authorized person from the submitting firm must sign all bids. This signature acknowledges that the Bidder has read the bid documents thoroughly before submitting a bid and will fulfill the obligations in accordance to the terms, conditions, and specifications.

Please carefully review this Invitation to Bid. It provides specific information necessary to aid participating firms in formulating a thorough response.

40. ENTIRETY OF AGREEMENT AND MODIFICATION:

This contract contains the entire agreement between the parties. Any prior agreement, promise, negotiation or representation not expressly set forth in this contract has no force or effect. Any subsequent modification to this contract must be in writing, signed by both parties. An official representative, employee, or agent of the County does not have the authority to modify or amend this contract except pursuant to specific authority to do so granted by the Galveston County Commissioners' Court.

41. NON-COLLUSION AFFIDAVIT:

Bidder certifies, by signing and submitting a bid, that the bid is not made in the interest of, or on behalf of, any undisclosed person, partnership, company, association, organization, or corporation; that the bid is genuine and not collusive or sham; that the contractor has not directly or indirectly induced or solicited another contractor to put in a false or sham bid, and has not directly or indirectly colluded, conspired, connived, or agreed with any contractor or anyone else to put in a sham Bid or that anyone shall refrain from bidding; that the contractor has not in any manner, directly or indirectly, sought by agreement, communications, or conference with anyone to fix the bid price of the contractor of any other bidder, or to fix any overhead, profit or cost element of the bid price, or that of any other contractor, or to secure any advantage against the public body awarding the contract or anyone interested in the proposed contract; that all statements contained in the bid are true; and further, that the contractor has not, directly or indirectly, submitted his or her bid price or any breakdown thereof, or the contents thereof, or divulged information or data relative thereto, or paid, and will not pay, any fee to any cooperation, partnership, company association, organization, Bid depository, or to any member or agent thereof to effectuate a collusive or sham bid.

A blank Non-Collusion Affidavit is included with this Bid packet. Bidder must enclose a truthful and fully executed original Non-Collusion Affidavit with the submission of its bid. This is a mandatory requirement of

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this Invitation to Bid. Failure to include the truthfully and fully executed Non-Collusion Affidavit in the submission of its Bid shall be considered non-compliance with the requirements of this Invitation to Bid by the Bidder and grounds for the rejection of Bidder's submission.

No negotiations, decisions, or actions shall be initiated by any company as a result of any verbal discussion with any County employee prior to the opening of responses to this Invitation to Bid.

No officer or employee of the County of Galveston, and no other public or elected official, or employee, who may exercise any function or responsibilities in the review or approval of this undertaking shall have any personal or financial interest, direct or indirect, in any contract or negotiation process thereof. The above compliance request will be part of all County of Galveston contracts for this service.

42. SOVEREIGN IMMUNITY:

The County specifically reserves any claim it may have to sovereign, qualified, or official immunity as a defense to any action arising in conjunction with this contract.

43. CONTROLLING LAW AND VENUE:

Bidder acknowledges and agrees that the contract is and shall be governed and construed by the laws of the State of Texas and that venue shall lie exclusively in Galveston County, Texas.

44. MERGERS, ACQUISITIONS:

The Bidder shall be required to notify the County of any potential for merger or acquisition of which there is knowledge at the time that a bid is submitted.

If subsequent to the award of any contract resulting from this Invitation to Bid the Bidder shall merge or be acquired by another firm, the following documents must be submitted to the County:

- A. Corporate resolutions prepared by the awarded Bidder and the new entity ratifying acceptance of the original contract, terms, conditions and prices;
- B. New Bidder's Federal Identification Number (FEIN) and;
- C. New Bidder's proposed operating plans.

Moreover, Bidder is required to provide the County with notice of any anticipated merger or acquisition as soon as Bidder has actual knowledge of the anticipated merger or acquisition. The New Bidder's proposed plan of operation must be submitted prior to merger to allow time for submission of such plan to the Commissioners' Court for its approval.

45. DELAYS:

The County reserves the right to delay the scheduled commencement date of the contract if it is to the advantage of the County. There shall be no additional costs attributed to these delays should any occur. Bidder agrees it will make no claims for damages, for damages for lost revenues, for damages caused by breach of contract with third parties, or any other claim by Bidder attributed to these delays, should any occur. In addition, Bidder agrees that any contract it enters into with any third party in anticipation of the commencement of the contract will contain a statement that the third party will similarly make no claim for damages based on delay of the scheduled commencement date of the contract.

46. ACCURACY OF DATA:

Information and data provided through this Invitation to Bid are believed to be reasonably accurate.

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47. SUBCONTRACTING/ASSIGNMENT:

Bidder shall not assign, sell, or otherwise transfer its contract in whole or in part without prior written permission of Commissioners' Court. Such consent, if granted, shall not relieve the Bidder of any of its responsibilities under this contract.

48. INDEPENDENT CONTRACTOR:

Bidder expressly acknowledges that it is an independent contractor. Nothing in this agreement is intended nor shall be construed to create an agency relationship, an employer/employee relationship, a joint venture relationship, or any other relationship allowing County to exercise control or direction over the manner or method by which Bidder or its subcontractors perform in providing the requirements stated in the Invitation to Bid.

49. MONITORING PERFORMANCE:

The County shall have the unfettered right to monitor and audit the Bidder's work in every respect. In this regard, the Bidder shall provide its full cooperation and insure the cooperation of its employees, agents, assigns, and subcontractors. Further, the Bidder shall make available for inspection and/or copying when requested, original data, records, and accounts relating to the Bidder's work and performance under this contract. In the event any such material is not held by the Bidder in its original form, a true copy shall be provided.

50. PROCUREMENT ETHICS:

Galveston County is committed to the highest ethical standards. Therefore, it is a serious breach of the public trust to subvert the public purchasing process by directing purchases to certain favored vendors, or to tamper with the competitive bidding process, whether it's done for kickbacks, friendship or any other reason. Since misuse of the purchasing power of a local government carries criminal penalties, and many such misuses are from a lack of clear guidelines about what constitutes an abuse of office, the Code of Ethics outlined below must be strictly followed.

Galveston County also requires ethical conduct from those who do business with the County.

CODE OF ETHICS – Statement of Purchasing Policy:

"Public employment is a public trust. It is the policy of Galveston County to promote and balance the objective of protecting the County's integrity and the objective of facilitating the recruitment and retention of personnel needed by Galveston County. Such policy is implemented by prescribing essential standards of ethical conduct without creating unnecessary obstacles to entering public office.

Public employees must discharge their duties impartially so as to assure fair competitive access to governmental procurement by responsible contractors. Moreover, they should conduct themselves in such a manner as to foster public confidence in the integrity of the Galveston County procurement organization.

To achieve the purpose of this Article, it is essential that those doing business with Galveston County also observe the ethical standards prescribed here."

General Ethical Standards:

It shall be a breach of ethics to attempt to realize personal gain through public employment with Galveston County by any conduct inconsistent with the proper discharge of the employee's duties.

It shall be a breach of ethics to attempt to influence any public employee of Galveston County to breach the standards of ethical conduct set forth in this code.

It shall be a breach of ethics for any employee of Galveston County to participate directly or indirectly in a procurement when the employee knows that:

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The employee or any member of the employee's immediate family, has a financial interest pertaining to the procurement;

A business or organization in which the employee or any member of the employee's immediate family, has a financial interest pertaining to the procurement; or

Any other person, business, or organization with which the employee or any member of the employee's immediate family is negotiating or has an arrangement concerning prospective employment is involved in the procurement.

Gratuities:

It shall be a breach of ethics for any person to offer, give, or agree to give any employee or former employee of Galveston County, or for any employee or former employee of Galveston County to solicit, demand, accept or agree to accept from another person, a gratuity or an offer of employment in connection with any decision, approval, disapproval, recommendation, preparation of any part of a program requirement or a purchase request, influencing the content of any specification or procurement standard, rendering of advice, investigation, auditing, or in any other advisory capacity in any proceeding or application, request for ruling, determination, claim or controversy, or other particular matter, pertaining to any program requirement or a contract or subcontract, or to any solicitation or bid thereof.

Kickbacks:

It shall be a breach of ethics for any payment, gratuity or offer of employment to be made by or on behalf of a subcontractor under a contract to the prime contractor or higher tier subcontractor or to any person associated therewith as an inducement for the award of a subcontract or order.

Contract Clause:

The prohibition against gratuities and kickbacks prescribed above shall be conspicuously set forth in every contract and solicitation by Galveston County.

Confidential Information:

It shall be a breach of ethics for any employee or former employee of Galveston County to knowingly use confidential information for actual or anticipated personal gain, or for the actual or anticipated gain of any other person.

Prohibition against Contingent Fees:

It shall be a breach of ethical standards for a person to be retained, or to retain a person, to solicit or secure a Galveston County contract upon an agreement or understanding for a commission, percentage, brokerage, or contingent fee, except for retention of bona fide employees or bona fide established commercial selling agencies for the purpose of securing business. Failure to abide by this section constitutes a breach of ethical standards.

Representation:

Bidder represents and warrants, by signing and submitting its bid, that it has not retained anyone in violation of this section prohibiting contingent fees.

Contract Clause:

The representation prescribed above shall be conspicuously set forth in every contract and solicitation thereof.

51. SUBJECT TO APPROPRIATION OF FUNDS:

State law prohibits the obligation and expenditure of public funds beyond the fiscal year for which a budget has been approved by the Commissioners' Court. Galveston County anticipates this to be an integral part of future budgets to be approved during the periods of this contract, except for unanticipated needs or events which may prevent such payments against this contract. However, Galveston County cannot guarantee the availability of funds, and enters into this contract

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only to the extent such funds are made available through appropriation (allocation) by the Commissioners' Court. This contract shall not be construed as creating any debt on behalf of the County of Galveston in violation of TEX. CONST. art. XI, § 7, and it is understood that all obligations of Galveston County are subject to the availability of funds.

52. NOTICE:

All notices or other communications required or permitted under this contract shall be in writing and shall be deemed to have been duly given if delivered personally in hand, transmitted by facsimile, or mailed certified mail, return receipt requested with proper postage affixed and addressed to the appropriate party at the following address or at such other address as may have been previously given in writing to the parties (Bidder shall provide its notice information with its Bid submission). If mailed, the notice shall be deemed delivered when actually received, or if earlier, on the third day following deposit in a United States Postal Service post office or receptacle, duly certified, return receipt requested, with proper postage affixed. If delivered in person, notice shall be deemed delivered when received for by, or actually received by, the receiving Party.

If transmitted by facsimile, notice shall be deemed delivered when receipt of such transmission is acknowledged.

To the County at:

Hon. Mark Henry,
County Judge of Galveston County
722 Moody (21st Street), Second (2nd) Floor
Galveston, Texas 77550
Fax: (409) 765-2653

With copies to:

Rufus Crowder, CPPO CPPB,
Galveston County Purchasing Agent
722 Moody (21st Street), Fifth (5th) Floor
Galveston, Texas 77550
Fax: (409) 621-7997

Robert Boemer, Director,
Galveston County Legal Department
722 Moody (21st Street), Fifth (5th) Floor
Galveston, Texas 77550
Fax: (409) 770-5560

To the Contractor at:

(Bidder to provide its contact name, address, and facsimile number for notice hereunder.)

53. NON-DISCRIMINATION:

- A. **Equal Employment Opportunity:** Bidder will not discriminate against any employee or applicant for employment because of race, color, religion, national origin, sex, disability, genetic information or veteran status. Bidder will take affirmative action to ensure that applicants are employed, and that employees are treated during employment, without regard to their race, color, religion, national origin, sex, disability, genetic information or veteran status. Such action shall include, but not be limited to, the following: employment; upgrading; demotion or transfer; recruitment or recruitment advertising; layoff or termination; rates of pay or other forms of compensation; and selection for training, including apprenticeship. Bidder agrees to post in conspicuous places, available to employees and applicants for employment, notices of employment.

Bidder will, in all solicitation or advertisements for employees placed by or on behalf of Bidder, state that all qualified applicants will receive consideration for employment without regard to race, color, religion, national origin, sex, disability, genetic information, or veteran status.

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Bidder will cause the foregoing provisions to be inserted in all subcontracts for any work covered by this Agreement so that such provisions will be binding upon each subcontractor, provided that the foregoing provisions shall not apply to contracts or subcontracts for standard commercial supplies or raw materials.

Bidder will include the provisions herein in every subcontract or purchase order unless exempted.

- B. **Drug Free Work Place Act:** Bidder shall comply with all applicable requirements of the Drug-Free Workplace Act of 1988 and implementing regulations.
 - C. **Americans with Disabilities Act:** Bidder shall comply with all applicable provisions of the Americans with Disabilities Act and implementing regulations.
 - D. **OSHA Regulations:** Bidder agrees to maintain and to display any applicable materials for its employees in accordance with OSHA regulations.
 - E. **Compliance with Immigration Laws and Use of E-Verify:** Bidder agrees to comply with all requirements of the U.S. Immigration Reform and Control Act of 1986, as amended, and any implementing regulations thereto. Bidder further agrees to utilize the E-Verify system through the Department of Homeland Security on its employees. Bidder shall not employ unauthorized aliens, and shall not assign services to be performed to any supplier or subcontractor who are unauthorized aliens. If any personnel performing any services hereunder are discovered to be an unauthorized alien, then Bidder will immediately remove such personnel from performing services hereunder and shall replace such personnel with personnel who are not unauthorized alien(s).
 - F. **State and Federal Law Compliance:** Bidder agrees to comply with all other State and Federal laws and regulations applicable to the provision of services under this contract.
- 54. RECORD RETENTION AND RIGHT TO AUDIT:**
Bidder shall keep and maintain all records associated with this contract for a minimum of five (5) years from the close of the contract or as required by Federal or State law or regulation, whichever period is longer. If awarded this contract, Bidder shall allow the County reasonable access to the records in Bidder's possession, custody, or control that the County deems necessary to assist it in auditing the services, costs, and payments provided hereunder. If this contract involves the use of Federal or State funds, then Bidder shall also allow reasonable access to representatives of the Office of Inspector General, the General Accounting Office, and the other Federal and/or State agencies overseeing the funds that such entities deem necessary to facilitate review by such agencies and Bidder shall maintain fiscal records and supporting documentation for all expenditures in a manner that conforms with OMB Circular A-87 (relocated to 2 C.F.R. Part 225) and this contract.

55. TITLE VI ASSURANCES/TxDOT:

The County is subject to Title VI of the Civil Rights Act of 1964 and the Federal and State laws and regulations of the United States Department of Transportation and Texas Department of Transportation (TxDOT). Pursuant to these requirements, the County must have its contractors provide required assurances on compliance with non-discrimination by itself and its subcontractors. The Title VI Assurances within this Subsection are not exhaustive – whenever any Federal, State, or Local requirement requires additional clauses, this list shall not be construed as limiting. Contractor agrees as follows:

- A. **Compliance with Regulations:** The Contractor shall comply with the Regulations relative to nondiscrimination in Federally-assisted programs of the Department of Transportation (hereinafter, DOT) Title 49, Code of Federal Regulations, Part 21, as they may be amended from time to time (hereinafter referred to as the Regulations), which are incorporated herein by reference and made a part of this contract.

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- B. **Non-discrimination:** The Contractor, with regard to the work performed by it during the contract, shall not discriminate on the basis of race, color, national origin, religion, sex, age, disability or Veteran status in the selection and retention of subcontractors, including procurements of materials and leases of equipment. The Contractor shall not participate either directly or indirectly in the discrimination prohibited by Section 21.5 of the Regulations, including employment practices when the contract covers a program set forth in Appendix B of the Regulations.
- C. **Solicitations for Subcontractors, Including Procurement of Materials and Equipment:** In all solicitations either by competitive bidding or negotiation made by the Contractor for work to be performed under a subcontract, including procurement of materials or leases of equipment, each potential subcontractor or supplier shall be notified by the Contractor of the Contractor's obligations under this contract and the Regulations relative to nondiscrimination on the grounds of race, color, national origin, religion, sex, age, disability or Veteran status.
- D. **Information and Reports:** The Contractor shall provide all information and reports required by the Regulations or directives issued pursuant thereto, and shall permit access to its books, records, accounts, other sources of information and its facilities as may be determined by the Galveston County or the Texas Department of Transportation to be pertinent to ascertain compliance with such Regulations, orders and instructions. Where any information required of the Contractor is in the exclusive possession of another who fails or refuses to furnish this information the Contractor shall so certify to Galveston County or the Texas Department of Transportation as appropriate, and shall set forth what efforts it has made to obtain the information.
- E. **Sanctions for Non-compliance:** In the event of the Contractor's noncompliance with the nondiscrimination provisions of this contract, Galveston County shall impose such contract sanctions as it or the Texas Department of Transportation may determine to be appropriate, including, but not limited to:
- 1) withholding of payments to the Contractor under the contract until the Contractor complies, and/or;
 - 2) cancellation, termination, or suspension of the contract, in whole or in part.
- F. **Incorporation of Provisions.** The Contractor shall include the provisions of paragraphs (1) through (6) in every subcontract, including procurement of materials and leases of equipment, unless exempt by the Regulations, or directives issued pursuant thereto. The Contractor shall take such action with respect to any subcontract or procurement as Galveston County or the Texas Department of Transportation may direct as a means of enforcing such provisions including sanctions for non-compliance: Provided, however, that, in the event Contractor becomes involved in, or is threatened with, litigation with a subcontractor or supplier as a result of such direction, the Contractor may request Galveston County to enter into such litigation to protect the interests of Galveston County, and, in addition, the Contractor may request the United States to enter into such litigation to protect the interests of the United States.

56. CERTIFICATION REGARDING DEBARMENT, SUSPENSION, PROPOSED DEBARMENT, AND OTHER RESPONSIBILITY MATTERS:

Bidder certifies that neither it, nor any of its Principals, are presently debarred, suspended, proposed for debarment, disqualified, excluded, or in any way declared ineligible for the award of contracts by any Federal agency. Contractor agrees that it shall refund Galveston County for any payments made to Contractor while ineligible. Contractor acknowledges that Contractor's uncured failure to perform under this Agreement, if such should occur, may result in Contractor being debarred from performing additional work for the County, the GLO, the State, HUD, and other Federal and State entities. Further, Bidder has executed the Certification Regarding Debarment, Suspension, Proposed Debarment, and Other Responsibility Matters and returned the fully completed and executed original certification with the submission of its bid. **The truthful and fully completed and executed original of the**

**GENERAL PROVISIONS
LEE & JOE JAMAIL BAY PARK
GALVESTON COUNTY, TEXAS**

Certification Regarding Debarment, Suspension, Proposed Debarment, and Other Responsibility Matters must be included with the submission of Bidder's Bid and is a mandatory requirement of this Invitation to Bid. Bidder's failure to include the fully completed and executed original of this Certification shall be considered non-compliance with the requirements of this Invitation to Bid and grounds for the rejection of Bidder's Bid.

57. SECTION 231.006, FAMILY CODE/DELINQUENT CHILD SUPPORT:

Pursuant to Title 5, Section 231.006 of the Texas Family Code, as applicable, Bidder certifies that it, including all of its principals, is/are current in child support payments and therefore, that it is eligible to receive payments from State funds under a contract for property, materials, or services. Bidder acknowledges and agrees that if it is awarded this contract, then the ensuing agreement may be terminated and payment withheld if this certification is inaccurate. Finally, by the submission of its bid, the Bidder certifies that it has included the names and social security numbers of each person with at least 25% ownership interest in Bidder within its response to the Invitation to Bid and that all such persons are current in child support payments.

58. LABOR STANDARDS:

If applicable to this solicitation, Bidder acknowledges that the contract to be awarded pursuant to this solicitation is on a grant program funded with Federal funds.

Bidder shall comply with the requirements of 29 CFR Part 5 and CFR Part 30 and shall be in conformity with Executive Order 11246, entitled "Equal Employment Opportunity", Copeland, "Anti-Kickback" Act (29 C.F.R. Part 3), the Davis-Bacon and Related Acts (29 C.F.R. Parts 1,3, and 5), the Contract Work Hours and Safety Standards Act (40 U.S.C. 3701 et seq.), and all other applicable Federal, State, and local laws and regulations pertaining to labor standards, insofar as those acts apply to the performance of this Agreement. Bidder is also responsible for ensuring that all subcontractors comply with the requirements of 29 CFR Part 5 and CFR Part 30 and shall be in conformity with Executive Order 11246, entitled "Equal Employment Opportunity", Copeland "Anti-Kickback" Act, the Davis-Bacon and Related Acts (29 CFR Parts 1, 3 and 5), the Contract Work Hours and Safety Standards Act (40 U.S.C. 3701 et seq.), and all other applicable Federal, State, and local laws and regulations pertaining to labor standards, insofar as those acts apply to the performance of this Agreement.

End of General Provision Section

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County of Galveston Purchasing Department Vendor Qualification Packet

(rev. 1.2, January 27, 2012)

All interested parties seeking consideration for qualified vendor status with the County of Galveston should complete and return only the following attached forms to:

Galveston County Purchasing Department
722 Moody Avenue, (21st Street), 5th Floor
Galveston, Texas 77550
(409) 770-5371 office
(409) 621-7987 fax

Form PEID: Person /Entity Information Data

Form W-9: Request for Taxpayer Identification Number and Certification

(please note that the included form may not be the latest revised form issued by the Internal Revenue Service. Please check the IRS website at <http://www.irs.gov/pub/irs-pdf/fw9.pdf> for the latest revision of this form.)

Form CIQ: Conflict of Interest Questionnaire

(please note that the included form may not be the latest revised form issued by the State of Texas Ethics Commission. Please check the Texas Ethics Commission website at for the latest revision of this form. Please note that Galveston County Purchasing Agent is not responsible for the filing of this form with the Galveston County Clerk per instructions of the State of Texas Ethics Commission).

Certificate(s) of Insurance: **If the person or entity seeking qualified vendor status with the County will be performing work at or on any County owned facility and/or property, Certificate(s) of Insurance are required to be submitted prior to performing any work.**

Insurance requirements are as follows:

Public Liability and Property Damage Insurance:

Successful vendor agrees to keep in full force and effect, a policy of public liability and property damage insurance issued by a casualty company authorized to do business in the State of Texas, and in standard form approved by the Board of Insurance Commissioners of the State of Texas, with coverage provisions insuring the public from any loss or damage that may arise to any person or property by reason of services rendered by vendor. Vendor shall at its own expense be required to carry the following minimum insurance coverages:

- For damages arising out of bodily injury to or death of one person in any one occurrence – one hundred thousand and no/100 dollars (\$100,000.00);
- For damages arising out of bodily injury to or death of two or more persons in any one occurrence – three hundred thousand and no/100 dollars (\$300,000.00); and
- For injury to or destruction of property in any one occurrence – one hundred thousand and no/100 dollars (\$100,000.00).

This insurance shall be either on an occurrence basis or on a claims made basis. Provided however, that if the coverage is on a claims made basis, then the vendor shall be required to purchase, at the termination of this agreement, tail coverage for the County for the period of the County's relationship with the vendor under this agreement. Such coverage shall be in the amounts set forth in subparagraphs (1), (2), and (3) above.

Worker's Compensation Insurance:

Successful vendor shall also carry in full force Workers' Compensation Insurance policy(ies), if there is more than one employee, for all employees, including but not limited to full time, part time, and emergency employees employed by the vendor. Current insurance certificates certifying that such policies as specified above are in full force and effect shall be furnished by the vendor to the County.

The County of Galveston shall be named as additional insured on policies listed in subparagraphs above and shall be notified of any changes to the policy(ies) during the contractual period.

Insurance is to be placed with insurers having a Best rating of no less than A. The vendor shall furnish the County with certificates of insurance and original endorsements affecting coverage required by these insurance clauses. The certificates and endorsements for each insurance policy are to be signed by a person authorized by the insurer to bind coverage on its behalf. The vendor shall be required to submit annual renewals for the term of any contractual agreement, purchase order or term contract, with Galveston County prior to expiration of any policy.

In addition to the remedies stated herein, the County has the right to pursue other remedies permitted by law or in equity.

The County agrees to provide vendor with reasonable and timely notice of any claim, demand, or cause of action made or brought against the County arising out of or related to utilization of the property. Vendor shall have the right to defend any such claim, demand, or cause of action at its sole cost and expense and within its sole and exclusive discretion. The County agrees not to compromise or settle any claim or cause of action arising out of or related to the utilization of the property without the prior written consent of the vendor.

In no event shall the County be liable for any damage to or destruction of any property belonging to the vendor unless specified in writing and agreed upon by both parties.

Procurement Policy - Special Note:

Understand that it is, according to Texas Local Government Code, Section 262.011, Purchasing Agents, subsections (d), (e), and (f), the sole responsibility of the Purchasing Agent to supervise all procurement transactions.

Therefore, be advised that all procurement transactions require proper authorization in the form of a Galveston County purchase order from the Purchasing Agent's office prior to commitment to deliver supplies, materials, equipment, including contracts for repair, service, and maintenance agreements. Any commitments made without proper authorization from the Purchasing Agent's office, pending Commissioners' Court approval, may become the sole responsibility of the individual making the commitment including the obligation of payment.

Code of Ethics - Statement of Purchasing Policy:

Public employment is a public trust. It is the policy of Galveston County to promote and balance the objective of protecting the County's integrity and the objective of facilitating the recruitment and

retention of personnel needed by Galveston County. Such policy is implemented by prescribing essential standards of ethical conduct without creating unnecessary obstacles to entering public office.

Public employees must discharge their duties impartially so as to assure fair competitive access to governmental procurement by responsible contractors. Moreover, they should conduct themselves in such a manner as to foster public confidence in the integrity of the Galveston County procurement organization.

To achieve the purpose of these instructions, it is essential that those doing business with Galveston County also observe the ethical standards prescribed here.

General Ethical Standards: It shall be a breach of ethics to attempt to realize personal gain through public employment with Galveston County by any conduct inconsistent with the proper discharge of the employee's duties.

It shall be a breach of ethics to attempt to influence any public employee of Galveston County to breach the standards of ethical conduct set forth in this code.

It shall be a breach of ethics for any employee of Galveston County to participate directly or indirectly in procurement when the employee knows that:

- The employee or any member of the employee's immediate family has a financial interest pertaining to the procurement.
- A business or organization in which the employee, or any member of the employee's immediate family, has a financial interest pertaining to the procurement.
- Any other person, business or organization with which the employee or any member of the employee's immediate family is negotiating or has an arrangement concerning prospective employment is involved in the procurement.

Gratuities: It shall be a breach of ethics to offer, give or agree to give any employee of Galveston County, or for any employee or former employee of Galveston County to solicit, demand, accept or agree to accept from another person, a gratuity or an offer of employment in connection with any decision, approval, disapproval, recommendation, preparation of any part of a program requirement or purchase request, influencing the content of any specification or procurement standard, rendering of advice, investigation, auditing, or in any other advisory capacity in any program requirement or a contract or subcontract, or to any solicitation or proposal therefore pending before this government.

Kickbacks: It shall be a breach of ethics for any payment, gratuity or offer of employment to be made by or on behalf of a subcontractor under a contract to the prime contractor or higher tier subcontractor for any contract for Galveston County, or any person associated therewith, as an inducement for the award of a subcontract or order.

Contract Clause: The prohibition against gratuities and kickbacks prescribed above shall be conspicuously set forth in every contract and solicitation by Galveston County.

Confidential Information: It shall be a breach of ethics for any employee or former employee of Galveston County to knowingly use confidential information for actual or anticipated personal gain, or for the actual or anticipated gain of any person.

Questions/Concerns:

If you have any questions or concerns regarding the information or instructions contained within this packet, please contact any member of the Purchasing Department staff at (409) 770-5371.

CONFLICT OF INTEREST DISCLOSURE REPORTING

Proposer may be required under Chapter 176 of the Texas Local Government Code to complete and file a conflict of interest questionnaire (CIQ Form). If so, the completed CIQ Form must be filed with the County Clerk of Galveston County, Texas.

- If Proposer has an employment or other business relationship with an officer of Galveston County or with a family member of an officer of Galveston County that results in the officer or family member of the officer receiving taxable income that exceeds \$2,500.00 during the preceding 12-month period, then Proposer **MUST** complete a CIQ Form and file the original of the CIQ Form with the County Clerk of Galveston County.

If Proposer has given an officer of Galveston County or a family member of an officer of Galveston County one or more gifts with an aggregate value of more than \$250.00 during the preceding 12-months, then Proposer **MUST** complete a CIQ Form and file the original of the CIQ Form with the County Clerk of Galveston County.

The Galveston County Clerk has offices at the following locations:

Galveston County Clerk
Galveston County Justice Center, Suite 2001
600 59th Street
Galveston, Texas 77551

Galveston County Clerk
North County Annex, 1st Floor
174 Calder Road
League City, Texas 77573

Again, if Proposer is required to file a CIQ Form, the original completed form is filed with the Galveston County Clerk (not the Purchasing Agent).

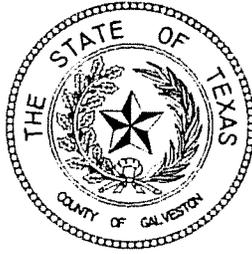
For Proposer's convenience, a blank CIQ Form is enclosed with this proposal. Blank CIQ Forms may also be obtained by visiting the Galveston County Clerk's website and/or the Purchasing Agent's website – both of these web sites are linked to the Galveston County homepage, at <http://www.co.galveston.tx.us>.

As well, blank CIQ Forms may be obtained by visiting the Texas Ethics Commission website, specifically at http://www.ethics.state.tx.us/whatsnew/conflict_forms.htm.

Chapter 176 specifies deadlines for the filing of CIQ Forms (both initial filings and updated filings).

It is Proposer's sole responsibility to file a true and complete CIQ Form with the Galveston County Clerk if Proposer is required to file by the requirements of Chapter 176. Proposer is advised that it is an offense to fail to comply with the disclosure reporting requirements dictated under Chapter 176 of the Texas Local Government Code.

If you have questions about compliance with Chapter 176, please consult your own legal counsel. Compliance is the individual responsibility of each person, business, and agent who is subject to Chapter 176 of the Texas Local Government Code.



**COUNTY of GALVESTON
Purchasing Department**

rev. 1.3, March 29, 2010

FORM PEID:	Request for Person-Entity Identification Data
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Instructions: Please type or print clearly when completing sections 1 thru 4 and return completed form to:

Galveston County Purchasing Agent
722 Moody Avenue (21st. Street), 5th Floor
Galveston, Texas 77550
(409) 770-5371 office
(409) 621-7987 fax

1.	Business Name:			
	Attention Line:			
2.	Physical Address:			
	City:		State:	Zip+4:
3.	Billing / Remit Address:			
	City:		State:	Zip+4
4.	Main Contact Person:			
	Main Phone Number:			
	Fax Number:			
	E-mail Address:			

Areas below are for County use only.

Requested By:	Phone / Ext. #	
Department:	Date:	
Action Requested - Check One:	IFAS PEID Vendor Number:	
<input type="checkbox"/> Add New	<input type="checkbox"/> Change Data	<input type="checkbox"/> Re-activate
<input type="checkbox"/> Inactivate	<input type="checkbox"/> Employee	<input type="checkbox"/> Attorney
<input type="checkbox"/> Landlord	<input type="checkbox"/> Foster Parent	<input type="checkbox"/> Refund
<input type="checkbox"/> One Time	<input type="checkbox"/> Foster Child	

Request for Taxpayer Identification Number and Certification

**Give Form to the
requester. Do not
send to the IRS.**

Print or type See Specific Instructions on page 2.	Name (as shown on your income tax return)	
	Business name/disregarded entity name, if different from above	
	Check appropriate box for federal tax classification: <input type="checkbox"/> Individual/sole proprietor <input type="checkbox"/> C Corporation <input type="checkbox"/> S Corporation <input type="checkbox"/> Partnership <input type="checkbox"/> Trust/estate <input type="checkbox"/> Limited liability company. Enter the tax classification (C=C corporation, S=S corporation, P=partnership) ▶ _____ <input type="checkbox"/> Other (see instructions) ▶ _____	
	<input type="checkbox"/> Exempt payee	
	Address (number, street, and apt. or suite no.)	Requester's name and address (optional)
City, state, and ZIP code		
List account number(s) here (optional)		

Part I Taxpayer Identification Number (TIN)

Enter your TIN in the appropriate box. The TIN provided must match the name given on the "Name" line to avoid backup withholding. For individuals, this is your social security number (SSN). However, for a resident alien, sole proprietor, or disregarded entity, see the Part I instructions on page 3. For other entities, it is your employer identification number (EIN). If you do not have a number, see *How to get a TIN* on page 3.

Note. If the account is in more than one name, see the chart on page 4 for guidelines on whose number to enter.

Social security number									

Employer identification number									

Part II Certification

Under penalties of perjury, I certify that:

1. The number shown on this form is my correct taxpayer identification number (or I am waiting for a number to be issued to me), and
2. I am not subject to backup withholding because: (a) I am exempt from backup withholding, or (b) I have not been notified by the Internal Revenue Service (IRS) that I am subject to backup withholding as a result of a failure to report all interest or dividends, or (c) the IRS has notified me that I am no longer subject to backup withholding, and
3. I am a U.S. citizen or other U.S. person (defined below).

Certification instructions. You must cross out item 2 above if you have been notified by the IRS that you are currently subject to backup withholding because you have failed to report all interest and dividends on your tax return. For real estate transactions, item 2 does not apply. For mortgage interest paid, acquisition or abandonment of secured property, cancellation of debt, contributions to an individual retirement arrangement (IRA), and generally, payments other than interest and dividends, you are not required to sign the certification, but you must provide your correct TIN. See the instructions on page 4.

Sign Here	Signature of U.S. person ▶	Date ▶
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General Instructions

Section references are to the Internal Revenue Code unless otherwise noted.

Purpose of Form

A person who is required to file an information return with the IRS must obtain your correct taxpayer identification number (TIN) to report, for example, income paid to you, real estate transactions, mortgage interest you paid, acquisition or abandonment of secured property, cancellation of debt, or contributions you made to an IRA.

Use Form W-9 only if you are a U.S. person (including a resident alien), to provide your correct TIN to the person requesting it (the requester) and, when applicable, to:

1. Certify that the TIN you are giving is correct (or you are waiting for a number to be issued),
2. Certify that you are not subject to backup withholding, or
3. Claim exemption from backup withholding if you are a U.S. exempt payee. If applicable, you are also certifying that as a U.S. person, your allocable share of any partnership income from a U.S. trade or business is not subject to the withholding tax on foreign partners' share of effectively connected income.

Note. If a requester gives you a form other than Form W-9 to request your TIN, you must use the requester's form if it is substantially similar to this Form W-9.

Definition of a U.S. person. For federal tax purposes, you are considered a U.S. person if you are:

- An individual who is a U.S. citizen or U.S. resident alien,
- A partnership, corporation, company, or association created or organized in the United States or under the laws of the United States,
- An estate (other than a foreign estate), or
- A domestic trust (as defined in Regulations section 301.7701-7).

Special rules for partnerships. Partnerships that conduct a trade or business in the United States are generally required to pay a withholding tax on any foreign partners' share of income from such business. Further, in certain cases where a Form W-9 has not been received, a partnership is required to presume that a partner is a foreign person, and pay the withholding tax. Therefore, if you are a U.S. person that is a partner in a partnership conducting a trade or business in the United States, provide Form W-9 to the partnership to establish your U.S. status and avoid withholding on your share of partnership income.

The person who gives Form W-9 to the partnership for purposes of establishing its U.S. status and avoiding withholding on its allocable share of net income from the partnership conducting a trade or business in the United States is in the following cases:

- The U.S. owner of a disregarded entity and not the entity,
- The U.S. grantor or other owner of a grantor trust and not the trust, and
- The U.S. trust (other than a grantor trust) and not the beneficiaries of the trust.

Foreign person. If you are a foreign person, do not use Form W-9. Instead, use the appropriate Form W-8 (see Publication 515, *Withholding of Tax on Nonresident Aliens and Foreign Entities*).

Nonresident alien who becomes a resident alien. Generally, only a nonresident alien individual may use the terms of a tax treaty to reduce or eliminate U.S. tax on certain types of income. However, most tax treaties contain a provision known as a "saving clause." Exceptions specified in the saving clause may permit an exemption from tax to continue for certain types of income even after the payee has otherwise become a U.S. resident alien for tax purposes.

If you are a U.S. resident alien who is relying on an exception contained in the saving clause of a tax treaty to claim an exemption from U.S. tax on certain types of income, you must attach a statement to Form W-9 that specifies the following five items:

1. The treaty country. Generally, this must be the same treaty under which you claimed exemption from tax as a nonresident alien.
2. The treaty article addressing the income.
3. The article number (or location) in the tax treaty that contains the saving clause and its exceptions.
4. The type and amount of income that qualifies for the exemption from tax.
5. Sufficient facts to justify the exemption from tax under the terms of the treaty article.

Example. Article 20 of the U.S.-China income tax treaty allows an exemption from tax for scholarship income received by a Chinese student temporarily present in the United States. Under U.S. law, this student will become a resident alien for tax purposes if his or her stay in the United States exceeds 5 calendar years. However, paragraph 2 of the first Protocol to the U.S.-China treaty (dated April 30, 1984) allows the provisions of Article 20 to continue to apply even after the Chinese student becomes a resident alien of the United States. A Chinese student who qualifies for this exception (under paragraph 2 of the first protocol) and is relying on this exception to claim an exemption from tax on his or her scholarship or fellowship income would attach to Form W-9 a statement that includes the information described above to support that exemption.

If you are a nonresident alien or a foreign entity not subject to backup withholding, give the requester the appropriate completed Form W-8.

What is backup withholding? Persons making certain payments to you must under certain conditions withhold and pay to the IRS a percentage of such payments. This is called "backup withholding." Payments that may be subject to backup withholding include interest, tax-exempt interest, dividends, broker and barter exchange transactions, rents, royalties, nonemployee pay, and certain payments from fishing boat operators. Real estate transactions are not subject to backup withholding.

You will not be subject to backup withholding on payments you receive if you give the requester your correct TIN, make the proper certifications, and report all your taxable interest and dividends on your tax return.

Payments you receive will be subject to backup withholding if:

1. You do not furnish your TIN to the requester,
2. You do not certify your TIN when required (see the Part II instructions on page 3 for details),
3. The IRS tells the requester that you furnished an incorrect TIN,
4. The IRS tells you that you are subject to backup withholding because you did not report all your interest and dividends on your tax return (for reportable interest and dividends only), or
5. You do not certify to the requester that you are not subject to backup withholding under 4 above (for reportable interest and dividend accounts opened after 1983 only).

Certain payees and payments are exempt from backup withholding. See the instructions below and the separate Instructions for the Requester of Form W-9.

Also see *Special rules for partnerships* on page 1.

Updating Your Information

You must provide updated information to any person to whom you claimed to be an exempt payee if you are no longer an exempt payee and anticipate receiving reportable payments in the future from this person. For example, you may need to provide updated information if you are a C corporation that elects to be an S corporation, or if you no longer are tax exempt. In addition, you must furnish a new Form W-9 if the name or TIN changes for the account, for example, if the grantor of a grantor trust dies.

Penalties

Failure to furnish TIN. If you fail to furnish your correct TIN to a requester, you are subject to a penalty of \$50 for each such failure unless your failure is due to reasonable cause and not to willful neglect.

Civil penalty for false information with respect to withholding. If you make a false statement with no reasonable basis that results in no backup withholding, you are subject to a \$500 penalty.

Criminal penalty for falsifying information. Willfully falsifying certifications or affirmations may subject you to criminal penalties including fines and/or imprisonment.

Misuse of TINs. If the requester discloses or uses TINs in violation of federal law, the requester may be subject to civil and criminal penalties.

Specific Instructions

Name

If you are an individual, you must generally enter the name shown on your income tax return. However, if you have changed your last name, for instance, due to marriage without informing the Social Security Administration of the name change, enter your first name, the last name shown on your social security card, and your new last name.

If the account is in joint names, list first, and then circle, the name of the person or entity whose number you entered in Part I of the form.

Sole proprietor. Enter your individual name as shown on your income tax return on the "Name" line. You may enter your business, trade, or "doing business as (DBA)" name on the "Business name/disregarded entity name" line.

Partnership, C Corporation, or S Corporation. Enter the entity's name on the "Name" line and any business, trade, or "doing business as (DBA)" name on the "Business name/disregarded entity name" line.

Disregarded entity. Enter the owner's name on the "Name" line. The name of the entity entered on the "Name" line should never be a disregarded entity. The name on the "Name" line must be the name shown on the income tax return on which the income will be reported. For example, if a foreign LLC that is treated as a disregarded entity for U.S. federal tax purposes has a domestic owner, the domestic owner's name is required to be provided on the "Name" line. If the direct owner of the entity is also a disregarded entity, enter the first owner that is not disregarded for federal tax purposes. Enter the disregarded entity's name on the "Business name/disregarded entity name" line. If the owner of the disregarded entity is a foreign person, you must complete an appropriate Form W-8.

Note. Check the appropriate box for the federal tax classification of the person whose name is entered on the "Name" line (Individual/sole proprietor, Partnership, C Corporation, S Corporation, Trust/estate).

Limited Liability Company (LLC). If the person identified on the "Name" line is an LLC, check the "Limited liability company" box only and enter the appropriate code for the tax classification in the space provided. If you are an LLC that is treated as a partnership for federal tax purposes, enter "P" for partnership. If you are an LLC that has filed a Form 8832 or a Form 2553 to be taxed as a corporation, enter "C" for C corporation or "S" for S corporation. If you are an LLC that is disregarded as an entity separate from its owner under Regulation section 301.7701-3 (except for employment and excise tax), do not check the LLC box unless the owner of the LLC (required to be identified on the "Name" line) is another LLC that is not disregarded for federal tax purposes. If the LLC is disregarded as an entity separate from its owner, enter the appropriate tax classification of the owner identified on the "Name" line.

Other entities. Enter your business name as shown on required federal tax documents on the "Name" line. This name should match the name shown on the charter or other legal document creating the entity. You may enter any business, trade, or DBA name on the "Business name/disregarded entity name" line.

Exempt Payee

If you are exempt from backup withholding, enter your name as described above and check the appropriate box for your status, then check the "Exempt payee" box in the line following the "Business name/disregarded entity name," sign and date the form.

Generally, individuals (including sole proprietors) are not exempt from backup withholding. Corporations are exempt from backup withholding for certain payments, such as interest and dividends.

Note. If you are exempt from backup withholding, you should still complete this form to avoid possible erroneous backup withholding.

The following payees are exempt from backup withholding:

1. An organization exempt from tax under section 501(a), any IRA, or a custodial account under section 403(b)(7) if the account satisfies the requirements of section 401(f)(2),
 2. The United States or any of its agencies or instrumentalities,
 3. A state, the District of Columbia, a possession of the United States, or any of their political subdivisions or instrumentalities,
 4. A foreign government or any of its political subdivisions, agencies, or instrumentalities, or
 5. An international organization or any of its agencies or instrumentalities.
- Other payees that may be exempt from backup withholding include:
6. A corporation,
 7. A foreign central bank of issue,
 8. A dealer in securities or commodities required to register in the United States, the District of Columbia, or a possession of the United States,
 9. A futures commission merchant registered with the Commodity Futures Trading Commission,
 10. A real estate investment trust,
 11. An entity registered at all times during the tax year under the Investment Company Act of 1940,
 12. A common trust fund operated by a bank under section 584(a),
 13. A financial institution,
 14. A middleman known in the investment community as a nominee or custodian, or
 15. A trust exempt from tax under section 664 or described in section 4947.

The following chart shows types of payments that may be exempt from backup withholding. The chart applies to the exempt payees listed above, 1 through 15.

IF the payment is for . . .	THEN the payment is exempt for . . .
Interest and dividend payments	All exempt payees except for 9
Broker transactions	Exempt payees 1 through 5 and 7 through 13. Also, C corporations.
Barter exchange transactions and patronage dividends	Exempt payees 1 through 5
Payments over \$600 required to be reported and direct sales over \$5,000 ¹	Generally, exempt payees 1 through 7 ²

¹ See Form 1099-MISC, Miscellaneous Income, and its instructions.

² However, the following payments made to a corporation and reportable on Form 1099-MISC are not exempt from backup withholding: medical and health care payments, attorneys' fees, gross proceeds paid to an attorney, and payments for services paid by a federal executive agency.

Part I. Taxpayer Identification Number (TIN)

Enter your TIN in the appropriate box. If you are a resident alien and you do not have and are not eligible to get an SSN, your TIN is your IRS individual taxpayer identification number (ITIN). Enter it in the social security number box. If you do not have an ITIN, see *How to get a TIN* below.

If you are a sole proprietor and you have an EIN, you may enter either your SSN or EIN. However, the IRS prefers that you use your SSN.

If you are a single-member LLC that is disregarded as an entity separate from its owner (see *Limited Liability Company (LLC)* on page 2), enter the owner's SSN (or EIN, if the owner has one). Do not enter the disregarded entity's EIN. If the LLC is classified as a corporation or partnership, enter the entity's EIN.

Note. See the chart on page 4 for further clarification of name and TIN combinations.

How to get a TIN. If you do not have a TIN, apply for one immediately. To apply for an SSN, get Form SS-5, Application for a Social Security Card, from your local Social Security Administration office or get this form online at www.ssa.gov. You may also get this form by calling 1-800-772-1213. Use Form W-7, Application for IRS Individual Taxpayer Identification Number, to apply for an ITIN, or Form SS-4, Application for Employer Identification Number, to apply for an EIN. You can apply for an EIN online by accessing the IRS website at www.irs.gov/businesses and clicking on Employer Identification Number (EIN) under Starting a Business. You can get Forms W-7 and SS-4 from the IRS by visiting IRS.gov or by calling 1-800-TAX-FORM (1-800-829-3676).

If you are asked to complete Form W-9 but do not have a TIN, write "Applied For" in the space for the TIN, sign and date the form, and give it to the requester. For interest and dividend payments, and certain payments made with respect to readily tradable instruments, generally you will have 60 days to get a TIN and give it to the requester before you are subject to backup withholding on payments. The 60-day rule does not apply to other types of payments. You will be subject to backup withholding on all such payments until you provide your TIN to the requester.

Note. Entering "Applied For" means that you have already applied for a TIN or that you intend to apply for one soon.

Caution: A disregarded domestic entity that has a foreign owner must use the appropriate Form W-8.

Part II. Certification

To establish to the withholding agent that you are a U.S. person, or resident alien, sign Form W-9. You may be requested to sign by the withholding agent even if item 1, below, and items 4 and 5 on page 4 indicate otherwise.

For a joint account, only the person whose TIN is shown in Part I should sign (when required). In the case of a disregarded entity, the person identified on the "Name" line must sign. Exempt payees, see *Exempt Payee* on page 3.

Signature requirements. Complete the certification as indicated in items 1 through 3, below, and items 4 and 5 on page 4.

1. Interest, dividend, and barter exchange accounts opened before 1984 and broker accounts considered active during 1983. You must give your correct TIN, but you do not have to sign the certification.

2. Interest, dividend, broker, and barter exchange accounts opened after 1983 and broker accounts considered inactive during 1983. You must sign the certification or backup withholding will apply. If you are subject to backup withholding and you are merely providing your correct TIN to the requester, you must cross out item 2 in the certification before signing the form.

3. Real estate transactions. You must sign the certification. You may cross out item 2 of the certification.

4. Other payments. You must give your correct TIN, but you do not have to sign the certification unless you have been notified that you have previously given an incorrect TIN. "Other payments" include payments made in the course of the requester's trade or business for rents, royalties, goods (other than bills for merchandise), medical and health care services (including payments to corporations), payments to a nonemployee for services, payments to certain fishing boat crew members and fishermen, and gross proceeds paid to attorneys (including payments to corporations).

5. Mortgage interest paid by you, acquisition or abandonment of secured property, cancellation of debt, qualified tuition program payments (under section 529), IRA, Coverdell ESA, Archer MSA or HSA contributions or distributions, and pension distributions. You must give your correct TIN, but you do not have to sign the certification.

Note. If no name is circled when more than one name is listed, the number will be considered to be that of the first name listed.

Secure Your Tax Records from Identity Theft

Identity theft occurs when someone uses your personal information such as your name, social security number (SSN), or other identifying information, without your permission, to commit fraud or other crimes. An identity thief may use your SSN to get a job or may file a tax return using your SSN to receive a refund.

To reduce your risk:

- Protect your SSN,
- Ensure your employer is protecting your SSN, and
- Be careful when choosing a tax preparer.

If your tax records are affected by identity theft and you receive a notice from the IRS, respond right away to the name and phone number printed on the IRS notice or letter.

If your tax records are not currently affected by identity theft but you think you are at risk due to a lost or stolen purse or wallet, questionable credit card activity or credit report, contact the IRS Identity Theft Hotline at 1-800-908-4490 or submit Form 14039.

For more information, see Publication 4535, Identity Theft Prevention and Victim Assistance.

Victims of identity theft who are experiencing economic harm or a system problem, or are seeking help in resolving tax problems that have not been resolved through normal channels, may be eligible for Taxpayer Advocate Service (TAS) assistance. You can reach TAS by calling the TAS toll-free case intake line at 1-877-777-4778 or TTY/TDD 1-800-829-4059.

Protect yourself from suspicious emails or phishing schemes.

Phishing is the creation and use of email and websites designed to mimic legitimate business emails and websites. The most common act is sending an email to a user falsely claiming to be an established legitimate enterprise in an attempt to scam the user into surrendering private information that will be used for identity theft.

The IRS does not initiate contacts with taxpayers via emails. Also, the IRS does not request personal detailed information through email or ask taxpayers for the PIN numbers, passwords, or similar secret access information for their credit card, bank, or other financial accounts.

If you receive an unsolicited email claiming to be from the IRS, forward this message to phishing@irs.gov. You may also report misuse of the IRS name, logo, or other IRS property to the Treasury Inspector General for Tax Administration at 1-800-366-4484. You can forward suspicious emails to the Federal Trade Commission at: spam@uce.gov or contact them at www.ftc.gov/idtheft or 1-877-IDTHEFT (1-877-438-4338).

Visit IRS.gov to learn more about identity theft and how to reduce your risk.

What Name and Number To Give the Requester

For this type of account:	Give name and SSN of:
1. Individual	The individual
2. Two or more individuals (joint account)	The actual owner of the account or, if combined funds, the first individual on the account ¹
3. Custodian account of a minor (Uniform Gift to Minors Act)	The minor ²
4. a. The usual revocable savings trust (grantor is also trustee) b. So-called trust account that is not a legal or valid trust under state law	The grantor-trustee ¹ The actual owner ¹
5. Sole proprietorship or disregarded entity owned by an individual	The owner ³
6. Grantor trust filing under Optional Form 1099 Filing Method 1 (see Regulation section 1.671-4(b)(2)(i)(A))	The grantor [*]
For this type of account:	Give name and EIN of:
7. Disregarded entity not owned by an individual	The owner
8. A valid trust, estate, or pension trust	Legal entity ⁴
9. Corporation or LLC electing corporate status on Form 8832 or Form 2553	The corporation
10. Association, club, religious, charitable, educational, or other tax-exempt organization	The organization
11. Partnership or multi-member LLC	The partnership
12. A broker or registered nominee	The broker or nominee
13. Account with the Department of Agriculture in the name of a public entity (such as a state or local government, school district, or prison) that receives agricultural program payments	The public entity
14. Grantor trust filing under the Form 1041 Filing Method or the Optional Form 1099 Filing Method 2 (see Regulation section 1.671-4(b)(2)(i)(B))	The trust

¹ List first and circle the name of the person whose number you furnish. If only one person on a joint account has an SSN, that person's number must be furnished.

² Circle the minor's name and furnish the minor's SSN.

³ You must show your individual name and you may also enter your business or "DBA" name on the "Business name/disregarded entity" name line. You may use either your SSN or EIN (if you have one), but the IRS encourages you to use your SSN.

⁴ List first and circle the name of the trust, estate, or pension trust. (Do not furnish the TIN of the personal representative or trustee unless the legal entity itself is not designated in the account title.) Also see *Special rules for partnerships* on page 1.

^{*}Note. Grantor also must provide a Form W-9 to trustee of trust.

Privacy Act Notice

Section 6109 of the Internal Revenue Code requires you to provide your correct TIN to persons (including federal agencies) who are required to file information returns with the IRS to report interest, dividends, or certain other income paid to you; mortgage interest you paid; the acquisition or abandonment of secured property; the cancellation of debt; or contributions you made to an IRA, Archer MSA, or HSA. The person collecting this form uses the information on the form to file information returns with the IRS, reporting the above information. Routine uses of this information include giving it to the Department of Justice for civil and criminal litigation and to cities, states, the District of Columbia, and U.S. possessions for use in administering their laws. The information also may be disclosed to other countries under a treaty, to federal and state agencies to enforce civil and criminal laws, or to federal law enforcement and intelligence agencies to combat terrorism. You must provide your TIN whether or not you are required to file a tax return. Under section 3406, payers must generally withhold a percentage of taxable interest, dividend, and certain other payments to a payee who does not give a TIN to the payer. Certain penalties may also apply for providing false or fraudulent information.

CONFLICT OF INTEREST QUESTIONNAIRE

FORM CIQ

For vendor or other person doing business with local governmental entity

This questionnaire reflects changes made to the law by H.B. 1491, 80th Leg., Regular Session. This questionnaire is being filed in accordance with Chapter 176, Local Government Code by a person who has a business relationship as defined by Section 176.001(1-a) with a local governmental entity and the person meets requirements under Section 176.006(a).

By law this questionnaire must be filed with the records administrator of the local governmental entity not later than the 7th business day after the date the person becomes aware of facts that require the statement to be filed. See Section 176.006, Local Government Code.

A person commits an offense if the person knowingly violates Section 176.006, Local Government Code. An offense under this section is a Class C misdemeanor.

OFFICE USE ONLY

Date Received

1 Name of person who has a business relationship with local governmental entity.

2 Check this box if you are filing an update to a previously filed questionnaire.

(The law requires that you file an updated completed questionnaire with the appropriate filing authority not later than the 7th business day after the date the originally filed questionnaire becomes incomplete or inaccurate.)

3 Name of local government officer with whom filer has employment or business relationship.

Name of Officer

This section (item 3 including subparts A, B, C & D) must be completed for each officer with whom the filer has an employment or other business relationship as defined by Section 176.001(1-a), Local Government Code. Attach additional pages to this Form CIQ as necessary.

A. Is the local government officer named in this section receiving or likely to receive taxable income, other than investment income, from the filer of the questionnaire?

Yes No

B. Is the filer of the questionnaire receiving or likely to receive taxable income, other than investment income, from or at the direction of the local government officer named in this section AND the taxable income is not received from the local governmental entity?

Yes No

C. Is the filer of this questionnaire employed by a corporation or other business entity with respect to which the local government officer serves as an officer or director, or holds an ownership of 10 percent or more?

Yes No

D. Describe each employment or business relationship with the local government officer named in this section.

4

Signature of person doing business with the governmental entity

Date

INSTRUCTIONS TO BIDDERS

1. BID PACKAGE

This bid package consists of the Invitation to Bid, the Instructions to Bidders, the bid proposal, the unexecuted Notice of Contract Award, the Special and General Terms and Conditions, any drawings and specifications, and any addenda which the County may issue prior to receipt of bids.

2. REVIEW

Each bidder is required to thoroughly review this entire bid packet to familiarize themselves with the bidding procedures, the plans and specifications for the requested work as well as the terms, and conditions of the contract the successful bidder will execute with the County.

3. PRE-BID MODIFICATIONS

Any modification to any portion of this bid packet will be in writing in the form of addenda. All addenda will be mailed to all holders of plans and specifications at least three (3) days prior to the date of opening bids. Bidders should inquire whether addenda have been issued inasmuch as Bidders shall be bound by such addenda whether or not received.

4. BID FORMS

All bids must be submitted on forms furnished by County.

5. TIME FOR RECEIVING BIDS

Bids received prior to the submission deadline will be maintained unopened until the specified time for bid opening. If the bidder fails to identify the Bid Number on the outside of the envelope as required, the Purchasing Agent will open the

envelope for the sole purpose of identifying the Bid Number for which the submission was made. The envelope will then be resealed. No liability will attach to a County officer or employee for the premature opening of a bid.

6. **TERM**

The term of the contract will begin on the date of execution by the County and will terminate on the date specified in the document entitled "Contract Award".

7. **AWARD OF BID**

The award will be to the responsive, responsible bidder(s) who submits the lowest and best bid. Criteria utilized for determining responsibility of bidder(s) includes, the bidder's experience, skill, ability, business judgment, financial capacity, integrity, honesty, possession of the necessary facilities or equipment, previous performance, reputation, promptness and any other factor deemed relevant by the County. The bidder shall furnish any information requested by the County in order for the County to determine whether a bidder is responsible.

8. **SUBSTITUTES**

It is not the County's intent to discriminate against any materials of equal merit to those specified; however, should the Bidder desire to use any substitutions, prior written approval shall be obtained from the County sufficiently in advance in order that an addendum might be issued.

9. **REJECTION OF BIDS**

The County, acting through its County Commissioners' Court reserves the right to: (1) reject any and all bids and waive any informality in the bids received; (2) disregard the bid of any Bidder determined to be not responsible.

10. BID BOND

Each Bidder will be required to furnish with his bid a Cashier's or Certified Check from any bank in the State of Texas or an acceptable Bidder's Bond for the sum of 5% of the total highest bid payable to the County of Galveston. The certified check or Bid Bond will be returned to the unsuccessful Bidder(s) and to the successful Bidder on the completion of execution of all contract documents and the furnishing of any necessary payment and performance bonds and insurance certificates.

The bid bond or check will be forfeited to the County as liquidated damages should the successful Bidder fail to give the required payment and performance bonds and insurance certificates and execute the contract with the said County within thirty (30) days after receiving notice of acceptance of its bid.

11. PERFORMANCE AND PAYMENT BOND

V.T.C.A., Government Code Chapter 2253, requires a Performance Bond (for contracts in excess of \$100,000) and a Payment Bond (for contracts in excess of \$25,000), be provided by the Contractor. Each bond required shall be equal to the total contract price and shall be issued by a satisfactory surety company. The bond(s) will remain in full force and effect until final completion and acceptance of the work.

The bond(s) are to be made payable to the County of Galveston. They shall be written on forms provided by the surety for public works projects in Texas. They shall also be executed by a surety and licensed to do business in Texas. Bidders should familiarize themselves with the entire provisions of V.T.C.A., Chapter 2253 and the penalties provided for its violations before submitting their bid.

12. CONTRACT

The contract shall become effective upon the Commissioners' Court's execution of same. The contract documents shall consist of the contract, the general and special conditions, the drawings, the bid package, any addenda issued, and any change orders issued during the work.

13. TAX EXEMPTION

This contract is issued by a political subdivision of the State of Texas which qualifies for exemption from sales, excise and use taxes pursuant to Section 151.309, Texas Tax Code.

The Contractor performing this contract may purchase, rent or lease all materials, supplies, equipment used or consumed in the performance of this contract by issuing to his supplier an exemption certificate complying with State Comptroller's Ruling #95-9.07 in lieu of the tax. Any such exemption certificate issued by the Contractor in lieu of the tax shall be subject to the provisions of the State Comptroller's ruling #95.05 (effective October 2, 1968) or as hereafter amended.

SECTION II
Bid Proposal
Contract Award

THIS SHEET INTENTIONALLY LEFT BLANK

BID #B151017

BID PROPOSAL

The bidder hereby proposes to furnish all labor, material, equipment and incidentals for:

LEE & JOE JAMAIL BAY PARK

Enclosed is a Certified Check, Cashier's Check or Bid Bond in the sum of 5% of the greatest amount bid.

Bidder agrees to perform in accordance with the requirements of the contract documents in consideration of payment by the County of the prices in this proposal.

IN CASE OF DISCREPANCY BETWEEN UNIT PRICES AND EXTENDED PRICES, UNIT PRICES WILL GOVERN.

This bid sheet must be completely filled out in ink or typewritten with any necessary supplemental information attached.

The undersigned hereby agrees to all of the foregoing terms and provisions and to all terms and provisions of the contract, if awarded, which includes all provisions of Sections I - VI of this bid package.

BIDDER	_____
SIGNATURE	_____
PRINT NAME	_____
TITLE	_____
ADDRESS	_____
CITY, STATE	_____
ZIP	_____
TELEPHONE	_____
FAX NO	_____
DATE	_____
TAX I.D. No.	_____

BID # B151017

BID FORM

61ST STREET BOAT RAMP

ITEM NO.	SPEC. NO.	ITEM DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	TOTAL PRICE
1	104	Removing Concrete (Boat Ramp)	200	SY		
2	104	Removing Concrete (Curb)	25	LF		
3	110	Excavation (Roadway, Including Removal of All Grass, Soil, Gravel, Concrete, Asphalt, Base, and Debris)	2,515	CY		
4	132	Embankment (Final) (Dens Cont) (Ty C)	5,290	CY		
5	162	Block Sodding	50	SY		
6	216	Proof Rolling to 95% Standard Proctor Density (When Requested by Contractor and Approved by Owner)	10	HR		
7	247	Flexible Base (12" Depth) (Type E) (Complete In Place) (Boat Ramp), Including Filter Fabric	212	SY		
8	260	Lime (Hydrated, Commercial or Quicklime) (Slurry) or Quicklime (Dry)	60	TON		
9	260	When Requested by Owner, in Lieu of 2' Vegetation Strip, Contractor to Continue Use of Lime (Hydrated, Commercial or Quicklime) (Slurry) or Quicklime (Dry) up to and Conforming to Geometrics of Bulkhead	1.8	TON		
10	260	Lime Treatment (Subgrade) (DC) (6")	4,836	SY		
11	260	When Requested by Owner, in Lieu of 2' Vegetation Strip, Contractor to Continue Lime Treatment (Subgrade) (DC) (6") up to and Conforming to Geometrics of Bulkhead	145	SY		
12	360	Concrete Pavement (JRCP) (7") (Parking Lot, Including Header at Edge of Pavement)	4,836	SY		
13	360	When Requested by Owner, in Lieu of 2' Vegetation Strip, Contractor to Continue Placement of Concrete Pavement (JRCP) (7") (Parking Lot) up to and Conforming to Geometrics of Bulkhead	145	SY		
14	360	Concrete Pavement (JRCP) (8") (Boat Ramp)	210	SY		
15	406	Treated Timber Piling (15" Diameter, 60' Length)	480	LF		
16	406	Treated Timber Piling (18" Diameter, 75' Length)	1,500	LF		
17	407	Steel Piling (PZ 27), Coated	23,550	SF		
18	407	Steel Piling (PZ 22), Coated	4,466	SF		

BID # B151017

BID FORM

61ST STREET BOAT RAMP

ITEM NO.	SPEC. NO.	ITEM DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	TOTAL PRICE
19	420	Coping (Sheetpile Cap)	524	LF		
20	420	Coping (Pile Cap Underwater at Base of Boat Ramp)	32	LF		
21	423	Retaining Wall (Cast-In-Place, See Plans)	52	SF		
22	432	Riprap (6"-18") (Special Riprap)	200	CY		
23	490-492	Treated Timber Docks, Including All Treated Timber, Fasteners, Hangers, and Other Hardware as Needed (Excludes Timber Piling)	1	LS		
24	496	Removing Structures (Bollard)	4	EA		
25	496	Removing Structures (Existing Timber Piles, of the 56 Total, as Required for Installation of Proposed Boat Ramp and Docks)	20	EA		
26	496	Removing Structures (Existing 400 SF Boat Dock, Excluding Timber Piles)	2	EA		
27	500	Mobilization (5% Max)	1	LS		
28	502	Barricades, Signs, and Traffic Handling	7	MO		
29	506	Construction Exists (Install) (TY 3)	25	SY		
30	506	Construction Exists (Remove) (TY 3)	25	SY		
31	506	Temporary Sediment Control Fence	135	LF		
32	506	Sandbags for Erosion Control	6	EA		
33	529	Concrete Curb (Dowel) (6")	80	LF		
34	644	Install Small Roadside Sign Supports and Assemblies (10BWG) (1) (SA) (P)	2	EA		
35	666	Reflectorized Pavement Markings (W) (4") (Solid) (Ty I) (100 MIL)	1,285	LF		
36	666	Reflectorized Pavement Markings (Y) (4") (Double Solid) (Ty I) (100 MIL)	10	LF		
37	666	Reflectorized Pavement Markings (Y) (4") (Broken) (Ty I) (100 MIL)	80	LF		
38	666	Reflectorized Pavement Markings (W) (12") (Solid) (Ty I) (100 MIL)	175	LF		
39	666	Reflectorized Pavement Markings (W) (Arrow) (Ty I) (100 MIL)	1	EA		

BID # B151017

BID FORM

61ST STREET BOAT RAMP

ITEM NO.	SPEC. NO.	ITEM DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	TOTAL PRICE
40	666	Pavement Sealer (4")	1,375	LF		
41	666	Pavement Sealer (12")	175	LF		
42	666	Pavement Sealer (Arrow)	1	EA		
43	678	Pavement Surface Preparation for Markings (4")	1,375	LF		
44	678	Pavement Surface Preparation for Markings (12")	175	LF		
45	678	Pavement Surface Preparation for Markings (Arrow)	1	EA		
46	See Plans	Install Steel Pipe Bollard	3	EA		
47	See Plans	Remove 10' (+/-) of 1' Wide Concrete Median, Inclusive of Cement Stabilized Subgrade, Pavement Repair, Nosing of Remaining 1' Median, and Adjustment of Turn Lane Striping	10	LF		
48	See Plans	Remove and Dispose of Unsuitable (Consisting of Riprap with Reinforcing Steel and/or Unacceptable Gradation) Existing Riprap Shore Protection, as Directed by Owner	315	CY		
49	See Plans	Remove Suitable Existing Riprap Shore Protection, Stockpile, and Relocate Evenly Along Shoreline Below Mean Higher High Water Elevation, as Directed by Owner	315	CY		
TOTAL BASE BID						

BID FORM

61ST STREET BOAT RAMP

Alternate No. 1 - Electrical

ITEM NO.	SPEC. NO.	ITEM DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	TOTAL PRICE
1	16050	Trench and Backfill (24" Deep)	550	LF		
2	16050	1" Schedule 80 PVC Electrical Conduit	600	LF		
3	16050	#8awg Electrical Wire	2,100	LF		
4	16050	Light Pole w/ Single Fixture, Including Foundation	3	EA		
5	16050	Light Pole w/ Dual Fixtures, Including Foundation	1	EA		
6	16050	24"x36"x36" IN GROUND PULL BOX	1	EA		
7	16050	3/4" Ground Clamp	4	EA		
8	16050	3/4"x10" Copper Clad Steel Ground Rod	4	EA		

TOTAL ALTERNATE NO. 1	
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BID # B151017

BID FORM

61ST STREET BOAT RAMP

Alternate No. 2 - Landscaping

ITEM NO.	SPEC. NO.	ITEM DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	TOTAL PRICE
1	160	Furnishing and Placing Topsoil (Vegetation Strip and Palm Tree Area)	55	CY		
2	192	Plant Material (10' Palm Tree)	1	EA		
3	192	Plant Material (Plugs at 18" Cntr)	347	EA		
4	247	Flexible Base (18" Depth) (Type E) (Complete In Place) (Vegetation Strip), Including Filter Fabric	145	SY		

TOTAL ALTERNATE NO. 2	
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TOTAL BASE BID AND ALTERNATE NOS. 1 & 2 (61st Street Boat Ramp)	
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THIS PROPOSAL CONSISTS OF A BASE BID AND ALTERNATE BIDS. FOR A BID TO BE CONSIDERED RESPONSIVE, ALL SECTIONS MUST BE COMPLETED. ANY COMBINATION OF BASE BID AND ALTERNATE BID(S) MAY BE AWARDED; HOWEVER, IN NO CASE WILL THE ALTERNATE BID(S) ONLY BE AWARDED. THE AWARD OF THE CONTRACT WILL BE BASED ON THE BID TO BE IN THE BEST INTEREST OF GALVESTON COUNTY.

ALL ITEMS OF WORK REQUIRED UNDER THIS CONTRACT NOT SPECIFICALLY CALLED FOR IN THE PROPOSAL AS PAY ITEMS SHALL BE CONSIDERED INCIDENTAL TO THE VARIOUS BID ITEMS AND NO SEPARATE PAYMENT SHALL BE MADE FOR SAME.

BID FORM

WASHINGTON PARK RECREATIONAL AREA

ITEM NO.	SPEC. NO.	ITEM DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	TOTAL PRICE
1	104	Removing Concrete (Slabs, Sidewalks, Etc.)	337	SY		
2	104	Removing Concrete (Curb, Including Wheelstops)	394	LF		
3	105	Removing Stabilized Base and Asphalt Pavement (Estimated on a Depth of 1 1/2" Asphalt and 4 1/2" Base; Actual Depths May Vary)	2,680	SY		
4	110	Excavation (Roadway) (Estimated on a Depth of 12" Surficial Soil)	720	CY		
5	132	Embankment (Final) (Dens Cont) (Ty C)	4,100	CY		
6	162	Block Sodding	360	SY		
7	216	Proof Rolling to 95% Standard Proctor Density (When Requested by Contractor and Approved by Owner)	10	HR		
8	260	Lime (Hydrated, Commercial or Quicklime) (Slurry) or Quicklime (Dry)	26	TON		
9	260	When Requested by Owner, in Lieu of 2' Vegetation Strip between Sta. 22+83.78 and Sta. 27+10.09, Contractor to Continue Use of Lime (Hydrated, Commercial or Quicklime) (Slurry) or Quicklime (Dry) up to and Conforming to Geometrics of Bulkhead	1.4	TON		
10	260	Lime Treatment (Subgrade) (DC) (6")	2,100	SY		
11	260	When Requested by Owner, in Lieu of 2' Vegetation Strip between Sta. 22+83.78 and Sta. 27+10.09, Contractor to Continue Lime Treatment (Subgrade) (DC) (6") up to and Conforming to Geometrics of Bulkhead	110	SY		
12	360	Concrete Pavement (JRCP) (6") (Parking Lot, Including Header at Edge of Pavement)	1,942	SY		
13	360	When Requested by Owner, in Lieu of 2' Vegetation Strip between Sta. 22+83.78 and Sta. 27+10.09, Contractor to Continue Placement of Concrete Pavement (JRCP) (6") (Parking Lot) up to and Conforming to Geometrics of Bulkhead	110	SY		
14	406	Treated Timber Piling (15" Diameter, 50' Length)	2,000	LF		
15	407	Steel Piling (PZ 27), Coated	16,680	SF		
16	407	Steel Piling (PZ 22), Coated	10,940	SF		

BID FORM

WASHINGTON PARK RECREATIONAL AREA

ITEM NO.	SPEC. NO.	ITEM DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	TOTAL PRICE
17	420	Coping (Sheetpile Cap)	855	LF		
18	423	Retaining Wall (Cast-In-Place, See Plans)	69	SF		
19	432	Riprap (6"-18") (Special Riprap)	64	CY		
20	490-492	2"x2" Treated Timber (Estimated Based on 8' Commercial Length Timber)	3.416	MBF		
21	490-492	2"x4" Treated Timber (Estimated Based on 8' Commercial Length Timber)	0.048	MBF		
22	490-492	2"x6" Treated Timber (Estimated Based on 12' Commercial Length Timber)	4.352	MBF		
23	490-492	2"x12" Treated Timber (Estimated Based on 14' Commercial Length Timber)	2.786	MBF		
24	490-492	3"x12" Treated Timber (Estimated Based on 14' Commercial Length Timber)	0.392	MBF		
25	490-492	3"x12" Treated Timber (Estimated Based on 18' Commercial Length Timber)	0.216	MBF		
26	490-492	4"x4" Treated Timber (Estimated Based on 8' Commercial Length Timber)	0.432	MBF		
27	496	Removing Structures (Bollard)	4	EA		
28	496	Removing Structures (Existing Timber Piles, of the 20 Total, Including Any Pile Connections as Required for Installation of Proposed Fishing Pier)	6	EA		
29	500	Mobilization (5% Max)	1	LS		
30	502	Barricades, Signs, and Traffic Handling	9	MO		
31	506	Construction Exists (Install) (TY 3)	380	SF		
32	506	Construction Exists (Remove) (TY 3)	380	SF		
33	506	Temporary Sediment Control Fence	175	LF		
34	506	Sandbags for Erosion Control	8	EA		
35	529	Concrete Curb (Dowel) (6")	728	LF		
36	529	Slotted Concrete Curb (Dowel) (6") (Includes Wheelstops)	380	LF		

BID FORM

WASHINGTON PARK RECREATIONAL AREA

ITEM NO.	SPEC. NO.	ITEM DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	TOTAL PRICE
37	644	Install Small Roadside Sign Supports and Assemblies (10BWG) (1) (SA) (P)	6	EA		
38	666	ReflectORIZED Pavement Markings (W) (4") (Solid) (Ty I) (100 MIL)	650	LF		
39	666	ReflectORIZED Pavement Markings (W) (Symbol) (Ty I) (100 MIL)	2	EA		
40	666	Pavement Sealer (4")	650	LF		
41	666	Pavement Sealer (Symbol)	2	EA		
42	678	Pavement Surface Preparation for Markings (4")	650	LF		
43	678	Pavement Surface Preparation for Markings (Symbol)	2	EA		
44	See Plans	Install Steel Pipe Bollard, as Directed by Owner	1	EA		
45	See Plans	Transition Plate, 3'-3"x5'x3/8" Diamond Plate, Galvanized	3	EA		
46	See Plans	Remove and Dispose of Unsuitable (Consisting of Riprap with Reinforcing Steel and/or Unacceptable Gradation) Existing Riprap Shore Protection, as Directed by Owner	461	CY		
47	See Plans	Remove Suitable Existing Riprap Shore Protection, Stockpile, and Relocate Evenly Along Shoreline Below Mean Higher High Water Elevation, as Directed by Owner	461	CY		

TOTAL BASE BID	
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Alternate No. 1 - 105' South Fishing Pier Extension (Bents 20 to 30)

ITEM NO.	SPEC. NO.	ITEM DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	TOTAL PRICE
1	406	Treated Timber Piling (15" Diameter, 50' Length)	1,000	LF		
2	490-492	2"x2" Treated Timber (Estimated Based on 8' Commercial Length Timber)	1.704	MBF		
3	490-492	2"x4" Treated Timber (Estimated Based on 8' Commercial Length Timber)	0.032	MBF		
4	490-492	2"x6" Treated Timber (Estimated Based on 12' Commercial Length Timber)	3.132	MBF		
5	490-492	2"x12" Treated Timber (Estimated Based on 14' Commercial Length Timber)	1.498	MBF		
6	490-492	3"x12" Treated Timber (Estimated Based on 14' Commercial Length Timber)	0.224	MBF		

BID FORM

WASHINGTON PARK RECREATIONAL AREA

ITEM NO.	SPEC. NO.	ITEM DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	TOTAL PRICE
7	490-492	3"x12" Treated Timber (Estimated Based on 18' Commercial Length Timber)	0.072	MBF		
8	490-492	4"x4" Treated Timber (Estimated Based on 8' Commercial Length Timber)	0.216	MBF		
9	See Plans	Transition Plate, 3'-3"x5'x3/8" Diamond Plate, Galvanized	1	EA		

TOTAL ALTERNATE NO. 1	
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Alternate No. 2 - 194' North Fishing Pier

ITEM NO.	SPEC. NO.	ITEM DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	TOTAL PRICE
1	406	Treated Timber Piling (15" Diameter, 50' Length)	2,000	LF		
2	490-492	2"x2" Treated Timber (Estimated Based on 8' Commercial Length Timber)	3.344	MBF		
3	490-492	2"x4" Treated Timber (Estimated Based on 8' Commercial Length Timber)	0.048	MBF		
4	490-492	2"x6" Treated Timber (Estimated Based on 8' Commercial Length Timber)	4.288	MBF		
5	490-492	2"x12" Treated Timber (Estimated Based on 14' Commercial Length Timber)	2.058	MBF		
6	490-492	3"x12" Treated Timber (Estimated Based on 10' Commercial Length Timber)	0.28	MBF		
7	490-492	3"x12" Treated Timber (Estimated Based on 14' Commercial Length Timber)	0.168	MBF		
8	490-492	4"x4" Treated Timber (Estimated Based on 8' Commercial Length Timber)	0.424	MBF		
9	531	Concrete Sidewalk (4 1/2"), Including Compacted Bedding	149	SY		
10	See Plans	Transition Plate, 3'-3"x5'x3/8" Diamond Plate, Galvanized	3	EA		

TOTAL ALTERNATE NO. 2	
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Alternate No. 3 - Large Pavilion (18'X24')

ITEM NO.	SPEC. NO.	ITEM DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	TOTAL PRICE
1	531	Concrete Sidewalk (4 1/2"), Including Compacted Bedding	22	SY		
2	02870	Trash Receptacle	1	EA		

BID FORM

WASHINGTON PARK RECREATIONAL AREA

ITEM NO.	SPEC. NO.	ITEM DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	TOTAL PRICE
3	02870	Stainless Steel Grill	1	EA		
4	02870	Aluminum Picnic Table	4	EA		
5	02870	Aluminum Picnic Table (ADA Accessible)	2	EA		
6	02870	18'x24' Pavilion w/ 28'x34' Concrete Slab	1	EA		

TOTAL ALTERNATE NO. 3	
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Alternate No. 4 - Small Pavilion (16'X16')

ITEM NO.	SPEC. NO.	ITEM DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	TOTAL PRICE
1	02870	Trash Receptacle	1	EA		
2	02870	Stainless Steel Grill	1	EA		
3	02870	Aluminum Picnic Table	3	EA		
4	02870	Aluminum Picnic Table (ADA Accessible)	1	EA		
5	02870	16'x16' Pavilion w/ 26'x26' Concrete Slab	1	EA		

TOTAL ALTERNATE NO. 4	
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Alternate No. 5 - Small Pavilion (16'X16')

ITEM NO.	SPEC. NO.	ITEM DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	TOTAL PRICE
1	02870	Trash Receptacle	1	EA		
2	02870	Stainless Steel Grill	1	EA		
3	02870	Aluminum Picnic Table	3	EA		
4	02870	Aluminum Picnic Table (ADA Accessible)	1	EA		
5	02870	16'x16' Pavilion w/ 26'x26' Concrete Slab	1	EA		

TOTAL ALTERNATE NO. 5	
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BID FORM

WASHINGTON PARK RECREATIONAL AREA

Alternate No. 6 - Electrical

ITEM NO.	SPEC. NO.	ITEM DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	TOTAL PRICE
1	16050	Trench and Backfill (24" Deep)	900	LF		
2	16050	1" Schedule 80 PVC Electrical Conduit	2,100	LF		
3	16050	1 1/2" Schedule 80 PVC Electrical Conduit	50	LF		
4	16050	3/4" Ground Clamp	11	EA		
5	16050	3/4"x10" Copper Clad Steel Ground Rod	11	EA		
6	16050	1 1/2" PVC Weatherhead	1	EA		
7	16050	#3awg Electrical Wire	150	LF		
8	16050	#4awg Ground Wire	3,000	LF		
9	16050	#8awg Electrical Wire	3,000	LF		
10	16050	#12awg Electrical Wire	1,100	LF		
11	16050	Meter Socket 100A, 120/240V	1	EA		
12	16050	24"x36"x90" Stainless Steel NEMA 4X Enclosure	1	EA		
13	16050	4'x8'x18" High Equipment Pad	1	EA		
14	16050	100A, Single Phase, 120/240V Panelboard, 14 Circuit	1	EA		
15	16050	Photocell	1	EA		
16	16050	24-hour, Dial Type Electric Timer	1	EA		
17	16050	4 Pole, 30A Rated, Lighting Contactor	1	EA		
18	16050	Light Pole w/ Single Fixture, Including Foundation	5	EA		
19	16050	GFCI Receptacle in Weatherproof Enclosure	4	EA		
20	16050	Pedestrian Light Pole w/ Single Fixture, Including Foundation	5	EA		
21	16050	24"x36"x36" In Ground Pull Box	1	EA		

TOTAL ALTERNATE NO. 6	
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BID # B151017

BID FORM

WASHINGTON PARK RECREATIONAL AREA

Alternate No. 7 - Landscaping

ITEM NO.	SPEC. NO.	ITEM DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	TOTAL PRICE
1	160	Furnishing and Placing Topsoil (Vegetation Strip and Palm Tree Areas)	92	CY		
2	192	Plant Material (10' Palm Tree)	7	EA		
3	192	Plant Material (Plugs at 18" Cntr)	432	EA		
4	247	Flexible Base (18" Depth) (Type E) (Complete In Place) (Vegetation Strip, Including Filter Fabric)	180	SY		

TOTAL ALTERNATE NO. 7	
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TOTAL BASE BID AND ALTERNATE NOS. 1 THRU 7 (Washington Park)	
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THIS PROPOSAL CONSISTS OF A BASE BID AND ALTERNATE BIDS. FOR A BID TO BE CONSIDERED RESPONSIVE, ALL SECTIONS MUST BE COMPLETED. ANY COMBINATION OF BASE BID AND ALTERNATE BID(S) MAY BE AWARDED; HOWEVER, IN NO CASE WILL THE ALTERNATE BID(S) ONLY BE AWARDED. THE AWARD OF THE CONTRACT WILL BE BASED ON THE BID TO BE IN THE BEST INTEREST OF GALVESTON COUNTY.

ALL ITEMS OF WORK REQUIRED UNDER THIS CONTRACT NOT SPECIFICALLY CALLED FOR IN THE PROPOSAL AS PAY ITEMS SHALL BE CONSIDERED INCIDENTAL TO THE VARIOUS BID ITEMS AND NO SEPARATE PAYMENT SHALL BE MADE FOR SAME.

BID FORM

61st STREET PEDESTRIAN BRIDGE

Pedestrian Bridge

ITEM NO.	SPEC. NO.	ITEM DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	TOTAL PRICE
1	500	BARGE MOBILIZATION	1	LS		
2	409	PRESTR CONC PIL (16 IN)	830	LF		
3	420	CL C CONC (CAP)	34.5	CY		
4	420	CL C CONC (RETAINING WALL)	43	CY		
5	422	REINF CONC SLAB	3,870	SF		
6	425	PRESTR CONC SLAB BEAM (4SB12)	412.7	LF		
7	450	RAIL (TY PR1)	468	LF		
8	15001	PREFABRICATED PEDESTRIAN STEEL BRIDGE SPANS (1-80")	2	EA		

TOTAL	
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Electrical

ITEM NO.	SPEC. NO.	ITEM DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	TOTAL PRICE
1	16050	1" Schedule 80 PVC Electrical Conduit	520	LF		
2	16050	Pull Box Embedded in Pedestrian Bridge Concrete Deck	11	EA		
3	16050	#8awg Electrical Wire	800	LF		
4	16050	#12awg Electrical Wire	1,000	LF		
5	16050	Pedestrian Light Pole w/ Single Fixture, Installed on Pedestrian Bridge	5	EA		

TOTAL Electrical	
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TOTAL BASE BID 61st Pedestrian Bridge	
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BID FORM

61st STREET PEDESTRIAN BRIDGE

Alternate No. 1 - Pedestrain Bridge*

ITEM NO.	SPEC. NO.	ITEM DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	TOTAL PRICE
1	422	REINF CONC SLAB	3,870	SF		
2	15001	PREFABRICATED PEDESTRIAN STEEL BRIDGE SPANS (1-41')	1	EA		
3	15001	PREFABRICATED PEDESTRIAN STEEL BRIDGE SPANS (1-38')	1	EA		
4	15001	PREFABRICATED PEDESTRIAN STEEL BRIDGE SPANS (1-30')	1	EA		
5	15001	PREFABRICATED PEDESTRIAN STEEL BRIDGE SPANS (1-28.57)	1	EA		

TOTAL ALTERNATE NO. 1	
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*Prefabricated sections are in substitution for Item 5 "Reinf Conc Slab" & Item 6 "Prestr Conc Slab Beams"

TOTAL BASE BID WITH ALTERNATE NO. 1	
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TOTAL PROJECT BID (Boat Ramp, Washington Park, and Pedestrian Bridge)	
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THIS PROPOSAL CONSISTS OF A BASE BID AND ALTERNATE BIDS. FOR A BID TO BE CONSIDERED RESPONSIVE, ALL SECTIONS MUST BE COMPLETED. ANY COMBINATION OF BASE BID AND ALTERNATE BID(S) MAY BE AWARDED; HOWEVER, IN NO CASE WILL THE ALTERNATE BID(S) ONLY BE AWARDED. THE AWARD OF THE CONTRACT WILL BE BASED ON THE BID TO BE IN THE BEST INTEREST OF GALVESTON COUNTY.

ALL ITEMS OF WORK REQUIRED UNDER THIS CONTRACT NOT SPECIFICALLY CALLED FOR IN THE PROPOSAL AS PAY ITEMS SHALL BE CONSIDERED INCIDENTAL TO THE VARIOUS BID ITEMS AND NO SEPARATE PAYMENT SHALL BE MADE FOR SAME.

BID #B151017

Proposal – Page 16 of 16

State of Texas Tax Statement of Materials and other charges:

The cost of in-place materials to be
incorporated into the project

\$ _____

The cost of labor, profit, materials
not in-place and all other charges

\$ _____

TOTAL: (Must agree with bid)

\$ _____

CONTRACT AWARD

CONTRACT FOR: LEE & JOE JAMAIL BAY PARK

THIS CONTRACT IS ENTERED INTO BETWEEN GALVESTON COUNTY AND THE CONTRACTOR NAMED BELOW PURSUANT TO SUBCHAPTER B, CHAPTER 271, TEXAS LOCAL GOVERNMENT CODE, AND THE REFERENCED INVITATION TO BID.

Contract No: _____

Bid No: _____

Contractor: _____

The Specifications and Drawings are enumerated as follows:

Standard Specifications: **Standard Specifications for Construction And Maintenance of Highways, Streets, and Bridges; Adopted by the Texas Department Of Transportation, November 1, 2014**

Special Provisions: **To Items 1 thru 9
To Item 110
To Item 247
To Item 491
To Item 506**

Special Items: **15001 Prefabricated Bridge
16050 Electrical Construction**

DRAWINGS: **Lee & Joe Jamail Bay Park Sheets 1 Thru 97**
ADDENDA: _____

Contract Award (continued)

Sections I (Invitation to Bid; General Provisions; Vendor Qualification Packet; Instructions to Bidders), II (Bid Proposal; Contract Award), III (Special Terms and Conditions, [including Addenda]; Wage Rates & AIA Forms), IV (General Terms and Conditions; Debarment Acknowledgement Form), V (Specifications) and VI (Plans) attached to this Contract Award are all made a part of this Contract and collectively evidence and constitute the entire contract. Contractor shall furnish all materials, perform all of the work required to be done and do everything else required by these documents.

Time of Completion: The Contractor shall complete the work within 210 Calendar Days of the issuance of the notice to proceed. The time set forth for completion of the work is an essential element of the Contract.

The Contract Sum: The County shall pay the Contractor for performance of the Contract, the sum of _____ Dollars and ___/100 (\$ _____), payments to be made as described herein.

Performance Bond required: (x) yes () no
Payment Bond required: (x) yes () no

This Contract is issued pursuant to award made by Commissioners' Court on _____.

EXECUTED this ____ day of _____, 20__.

COUNTY OF GALVESTON, TEXAS

BY: _____
MARK HENRY, County Judge

ATTEST:

DWIGHT D. SULLIVAN, County Clerk

CONTRACTOR

BY: _____
Signature - Title

Printed Name

SECTION III

Special Terms and Conditions

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SPECIAL TERMS AND CONDITIONS

CONTRACT FOR: LEE & JOE JAMAIL BAY PARK

In the event of a conflict between any provision of these Special Terms and Conditions and any other section or provision of this bid package or a contract awarded under this bid, the Special Terms and Provisions control. If you need additional information, contact the Project Administrator.

SCOPE:

It is the intent of these specifications to secure a contract to furnish labor, equipment, materials and incidentals as required to:

Boat Ramp:

- a) Remove existing riprap and construct the sheetpile bulkhead/boat ramp foundation;
- b) Build boat ramp to the lines and grades shown on the plans;
- c) Install concrete retaining wall as shown on the plans;
- d) Drive piles for boat docks and construct dock decking;
- e) Install relocated/new riprap to the lines and grades shown on the plans;
- f) Remove asphalt surface and base and excavate surficial material in the area of the parking lot, provide and compact fill material to the lines and grades shown on the plans, treat subgrade, and install concrete parking lot; and
- g) Install lighting, landscaping, drainage, and miscellaneous features.

Washington Park:

- a) Remove existing riprap and construct the sheetpile bulkhead;
- b) Install concrete retaining wall as shown on the plans;
- c) Drive piles for fishing piers and construction pier decking;
- d) Install relocated/new riprap to the lines and grades shown on the plans;
- e) Remove asphalt surface and base and excavate surficial material in the area of the parking lot/sidewalk, provide and compact fill material to the lines and grades shown on the plans, treat subgrade, and install concrete parking lot/sidewalk; and
- f) Install lighting, landscaping, and drainage features; and
- g) Install pavilions, picnic table, and other site furnishings

Pedestrian Bridge:

- a) Install concrete abutments and cast-in-place decking as shown in plans;
- b) Drive piles for bents and install prefabricated bridge section;
- c) Install decking to the lines and grades shown on the plans;
- d) Install bridge railing and lighting

The work to be performed will be administered by the County's Program Administrator,

for purposes of this Contract is:

Name: G. Michael Fitzgerald, P.E., County Engineer
Address: 722 Moody, 1st Floor, Galveston, Texas 77550
Telephone No.: (409) 770-5549

GENERAL

All advance warning signs to be set two weeks prior to the start of construction activities and to remain in place until all construction activities are complete and accepted by Galveston County.

For this project the Contractor will furnish and maintain all barricades and warning signs, including all temporary and portable traffic control devices necessary during the various phases of construction. These barricades and warning signs shall be constructed and placed in accordance with the barricades and construction standards, latest Texas MUTCD, and typical construction layouts, or as directed by the Engineer.

The Contractor shall be responsible for controlling excess dust, loose rocks and any other material produced by the work. The Contractor shall use methods which are reasonable and practical to control these problems.

SURVEY DATA

The plans reflect conditions based on both a pre-Hurricane Ike survey and a post-Hurricane Ike survey. The entire project was surveyed pre-Hurricane Ike. After Hurricane Ike, new bathymetric survey was obtained only. Quantities shown in the Proposal related to surface improvements are estimated quantities based on the pre-Hurricane Ike survey. Quantities shown in the Proposal related to sub-surface improvements are estimated quantities based on the post-Hurricane Ike survey.

COORDINATION

The Contractor will be required to coordinate his efforts with the Galveston County Department of Parks & Cultural Services Director or his designee at (409) 934-8100 for access to the site and allowable working hours.

MATERIAL STORAGE

Mixing of materials, storing of materials, storing of equipment, or repairing of equipment on top of pavement or bridge decks will not be permitted unless specifically authorized by the ENGINEER. Permission will be granted to store materials on subject surfaces if no damage or discoloration will result.

MATERIAL HAULING

Hauling of materials will not be paid for directly, but shall be considered as subsidiary work pertaining to the respective bid items. Haul routes for full and empty loads shall be restricted to State Highways. Hauling of equipment is also restricted to State Highways. The Contractor shall be responsible for clean-up of any material spilled or dropped on roadways.

VERTICAL AND HORIZONTAL CONTROL

Vertical and horizontal control points will be provided by the Design Engineer. All construction surveying and staking will be done by the Contractor.

SUSPENSION OF WORK

In case of suspension of work for any cause, the Contractor shall be responsible for the preservation of all materials. He shall provide suitable drainage of the site and shall erect temporary structures where required. The Contractor shall maintain the site in good and passable condition until final acceptance.

ABATEMENT AND MITIGATION OF EXCESSIVE OR UNNECESSARY CONSTRUCTION NOISE

Throughout all phases of the construction of this project, including the moving, unloading, operating and handling of construction equipment prior to commencement of work, during the project and after the work is complete, the Contractor shall make every reasonable effort to minimize the noise imposed upon the immediate neighborhood surrounding the area of construction. Particular and special efforts shall be exercised by the Contractor to avoid the creation of unnecessary noise impacts on adjacent sensitive receptors in the placement of non-mobile equipment such as air compressors, generators, pumps, etc. The placement of temporary parked mobile equipment with the engine running shall be such as to cause the least disruption of normal adjacent activities not associated with the work to be performed by the Contractor.

All equipment associated with the work shall be equipped with components designed by the manufacturer wholly or in part to suppress excessive noise and these components shall be maintained in their original operating condition considering normal depreciation. Noise-attenuation devices installed by the manufacturer such as mufflers, engine covers, insulation, etc., shall not be removed nor rendered ineffectual nor be permitted to remain off the equipment while the equipment is in use.

WORKING HOURS

Work shall not be commenced by the Contractor before sunrise and shall be so conducted that all equipment is off the road and safely stored by sunset. Specific permission shall be obtained by the Contractor from the Engineer for work during those hours between 7:00 P.M. and 6:00 A.M. of the following day.

LIQUIDATED DAMAGES

Liquidated damages in the amount of One Thousand dollars (\$ 1,000) per day will be assessed for each day beyond the time of completion that the work is not substantially complete.

TIME OF COMPLETION

Time of Completion of this project is 210 calendar days from the date of the Notice to Proceed.

PIPELINE, UTILITY LOCATIONS AND CONTRACTOR RESPONSIBILITY

An effort to determine all pipelines and utilities which may impact the project has been made. All known pipelines and utilities have been approximately located and shown on the plans. The Contractor shall notify all utility and pipeline owners before beginning the work. Additional unknown utilities and pipelines may be found. Adjustments of these utilities or pipelines shall be done by others at no expense to the Contractor. However, the Contractor shall cooperate and coordinate his work with the adjustment.

The Contractor will anticipate this in making his bid. The Contractor will not be allowed claims for damages or delays for these adjustments should they be necessary. However, additional time will be considered for the contract period.

This action, however, shall in no way be interpreted as relieving the Contractor of his responsibilities under the terms of the contract as set out in the plans and specifications. The Contractor shall repair any damage to the facilities caused by his operations at the Contractor's expense and shall restore facilities to service in a timely manner.

BUILDER'S RISK INSURANCE

Builder's Risk Insurance at this time is applicable to the boat docks. Professional Liability Insurance will not be required for this project.

EXPERIENCE

All bidders must have done a like project within the last two years.

EXCESS, WASTE MATERIAL AND DEBRIS

All excess material, waste material and debris shall become the property of the Contractor and shall be properly disposed of off-site. No separate payment shall be made for same.

LABOR AND EQUIPMENT

All labor and equipment furnished by the Contractor will be considered subsidiary to the various bid items and will not be paid for directly.

FIELD OFFICE

For this project the Contractor will not have to provide a field office.

INCIDENTALS

All items of work required under this contract not specifically called for in the proposal as pay items shall be considered incidental to the various bid items and no separate payment shall be made for same.

FLAGMEN

During certain phases of construction flagmen may be required to direct and control traffic. This work will not be paid for directly, but shall be considered incidental to all other bid items.

SHOP DRAWINGS AND SUBMITTALS

Within 30 days after the date of Notice to Proceed, Contractor to submit for Engineer's review a complete Shop Drawing Submittal List. The list to include shop drawings for all equipment and manufactured materials to be furnished under this Contract. List should include, but not be limited to, the following.

- 1) Each submittal to be numbered with a consecutive numbering system.
- 2) Name (description) of submittal.
- 3) Applicable specification number or drawing number.
- 4) Scheduled submission date.
- 5) Latest date acceptable submittal required to prevent delay in purchase.

The Engineer may waive all or portions of the submittal requirements for any shop drawing on the Submittal List.

The Contractor may not begin construction on the Project until the Submittal List is accepted by the Engineer.

Contractor's Duties. The Contractor is to review shop drawings prior to submittal to verify field measurements, field construction criteria, manufacturer model number and other pertinent data, conformance to Contract Documents, coordination with other submittals, and schedule for submittal and review.

Contractor to stamp and sign submittals with stamp which states "This submittal is certified to be in conformance with Contract Documents unless noted herein." All submittals without this certification will not be reviewed but will be returned to the Contractor for proper submission. The Engineer will rely on this statement when performing the review of the submittal.

Contractor to schedule submittals to allow sufficient time for review process and to coordinate submittals with schedule to prevent delay to Work.

No Work to be performed in connection with fabrication, manufacturer, or purchase of materials or equipment until submittals have been reviewed and marked "No Exception Taken" or "Make Corrections Noted." Work performed on submittals marked "Make Corrections Noted" to be in accordance with all corrections noted thereon.

Contractor to correct submittal and resubmit or to prepare new submittal for review by Engineer for all submitted Items marked "Submit Specified Item," "Rejected," or "Revise and Resubmit." No claims for extra time or delays will be considered due to time required for review of submittals or resubmittals.

Engineer's Duties. Engineer to review submittals as quickly as possible consistent with a thorough review and consistent with type of information submitted.

Such review by the Engineer shall be for the sole purpose of determining the general conformity of said shop drawings or schedules to the Contract and shall not relieve the Contractor of his duty as an independent Contractor as previously set forth, it being expressly understood and agreed that the Engineer does not assume any duty to pass upon the propriety or adequacy of such drawings or schedules or any means or methods reflected thereby, in relation to the safety of either person or property during Contractor's performance hereunder. The Engineer's review of drawings will not constitute an acceptance of all dimensions, quantities, and details of the material, equipment, device, or item shown and does not relieve the Contractor from any responsibility for errors or deviations from the Contract requirements.

Engineer will provide an electronic copy of submittals with required corrections.

Engineer will stamp drawing noting the appropriate action and will sign and date stamp.

Form of Submittal. Contractor will submit four copies of all submittals. Once copy of appropriately marked submittal will be retained at the Engineer's office, one copy will be retained at the Engineer's field office, and two copies will be returned to the Contractor for Contractor's use. Engineer will not mark additional copies for the Contractor. If the Contractor desires additional copies, they must be marked by the Contractor. Alternatively, the Contractor may submit the shop drawing and submittals electronically.

Contractor to submit a complete copy of relevant Contract Document items which has been marked by the manufacturer to certify each point of the Contract Document item noting compliance and each point of deviation.

Contractor to submit relevant literature, catalog cuts, or written descriptive matter backing up all points of the Contract Document item compliance.

Contractor to submit comparative life cycle, cost, performance, or other data supporting consideration of all points of the Contract Document item deviation.

All information supplied to be carefully and completely cross-referenced to the relevant

Contract Document item requirement.

When required by an individual Contract Document item, Contractor to submit written step-by-step test plan for functional checkout and demonstration test of respective equipment. Submissions that do not conform to the Form of Submittal as outlined herein will not be considered and will be returned to the Contractor for proper submission.

Contractor to have acceptable shop drawings at the site of the Work. Failure of the Contractor to supply acceptable drawings will be deemed sufficient cause to delay the Work until such drawings are available. This procedure shall not be considered cause for claims for delay.

Installation Drawings. When required by individual Items of the Technical Specifications, provide, for the Engineer's use, two copies of installation drawings and instructions consisting of all necessary details required for field assembly, erection, and installation of a particular component of Work, including, but not limited to, unloading and storage instructions, layout/placement drawings, erection sequences, assembly drawings, connection details, and wiring diagrams.

SPECIAL REQUIREMENTS:

- 1) The attached schedule of wages per hour for this Contract follow:

General Decision Number: TX150056 01/02/2015 TX56

Superseded General Decision Number: TX20140056

State: Texas

Construction Type: Highway

Counties: Austin, Brazoria, Chambers, Fort Bend, Galveston, Hardin, Harris, Jefferson, Liberty, Montgomery, Orange, San Jacinto and Waller Counties in Texas.

HIGHWAY CONSTRUCTION PROJECTS (excluding tunnels, building structures in rest area projects & railroad construction; bascule, suspension & spandrel arch bridges designed for commercial navigation, bridges involving marine construction; and other major bridges).

Note: Executive Order (EO) 13658 establishes an hourly minimum wage of \$10.10 for 2015 that applies to all contracts subject to the Davis-Bacon Act for which the solicitation is issued on or after January 1, 2015. If this contract is covered by the EO, the contractor must pay all workers in any classification listed on this wage determination at least \$10.10 (or the applicable wage rate listed on this wage determination, if it is higher) for all hours spent performing on the contract. The EO minimum wage rate will be adjusted annually. Additional information on contractor requirements and worker protections under the EO is available at www.dol.gov/whd/govcontracts.

Modification Number 0 Publication Date 01/02/2015

* SUTX2011-013 08/10/2011

	Rates	Fringes
CEMENT MASON/CONCRETE FINISHER (Paving and Structures).....	\$ 12.98	
ELECTRICIAN.....	\$ 27.11	
FORM BUILDER/FORM SETTER		
Paving & Curb.....	\$ 12.34	
Structures.....	\$ 12.23	
LABORER		
Asphalt Raker.....	\$ 12.36	
Flagger.....	\$ 10.33	
Laborer, Common.....	\$ 11.02	
Laborer, Utility.....	\$ 11.73	
Pipelayer.....	\$ 12.12	
Work Zone Barricade Servicer.....	\$ 11.67	
PAINTER (Structures).....	\$ 18.62	

POWER EQUIPMENT OPERATOR:

Asphalt Distributor.....	\$ 14.06
Asphalt Paving Machine.....	\$ 14.32
Broom or Sweeper.....	\$ 12.68
Concrete Pavement Finishing Machine.....	\$ 13.07
Concrete Paving, Curing, Float, Texturing Machine....	\$ 11.71
Concrete Saw.....	\$ 13.99
Crane, Hydraulic 80 Tons or less.....	\$ 13.86
Crane, Lattice boom 80 tons or less.....	\$ 14.97
Crane, Lattice boom over 80 Tons.....	\$ 15.80
Crawler Tractor.....	\$ 13.68
Excavator, 50,000 pounds or less.....	\$ 12.71
Excavator, Over 50,000 pounds.....	\$ 14.53
Foundation Drill, Crawler Mounted.....	\$ 17.43
Foundation Drill, Truck Mounted.....	\$ 15.89
Front End Loader 3 CY or Less.....	\$ 13.32
Front End Loader, Over 3 CY.	\$ 13.17
Loader/Backhoe.....	\$ 14.29
Mechanic.....	\$ 16.96
Milling Machine.....	\$ 13.53
Motor Grader, Fine Grade....	\$ 15.69
Motor Grader, Rough.....	\$ 14.23
Off Road Hauler.....	\$ 14.60
Pavement Marking Machine....	\$ 11.18
Piledriver.....	\$ 14.95
Roller, Asphalt.....	\$ 11.95
Roller, Other.....	\$ 11.57
Scraper.....	\$ 13.47
Spreader Box.....	\$ 13.58

Servicer.....\$ 13.97

Steel Worker

Reinforcing Steel.....	\$ 15.15
Structural Steel Welder.....	\$ 12.85
Structural Steel.....	\$ 14.39

TRUCK DRIVER

Low Boy Float.....	\$ 16.03
Single Axle.....	\$ 11.46
Single or Tandem Axle Dump..	\$ 11.48
Tandem Axle Tractor w/Semi Trailer.....	\$ 12.27

WELDERS - Receive rate prescribed for craft performing operation to which welding is incidental.

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Unlisted classifications needed for work not included within the scope of the classifications listed may be added after award only as provided in the labor standards contract clauses (29CFR 5.5 (a) (1) (ii)).

The body of each wage determination lists the classification and wage rates that have been found to be prevailing for the cited type(s) of construction in the area covered by the wage determination. The classifications are listed in alphabetical order of "identifiers" that indicate whether the particular rate is a union rate (current union negotiated rate for local), a survey rate (weighted average rate) or a union average rate (weighted union average rate).

Union Rate Identifiers

A four letter classification abbreviation identifier enclosed in dotted lines beginning with characters other than "SU" or "UAVG" denotes that the union classification and rate were prevailing for that classification in the survey. Example: PLUM0198-005 07/01/2014. PLUM is an abbreviation identifier of the union which prevailed in the survey for this classification, which in this example would be Plumbers. 0198 indicates the local union number or district council number where applicable, i.e., Plumbers Local 0198. The next number, 005 in the example, is an internal number used in processing the wage determination. 07/01/2014 is the effective date of the most current negotiated rate, which in this example is July 1, 2014.

Union prevailing wage rates are updated to reflect all rate changes in the collective bargaining agreement (CBA) governing this classification and rate.

Survey Rate Identifiers

Classifications listed under the "SU" identifier indicate that no one rate prevailed for this classification in the survey and the published rate is derived by computing a weighted average rate based on all the rates reported in the survey for that classification. As this weighted average rate includes all rates reported in the survey, it may include both union and non-union rates. Example: SULA2012-007 5/13/2014. SU indicates the rates are survey rates based on a weighted average calculation of rates and are not majority rates. LA indicates the State of Louisiana. 2012 is the year of survey on which these classifications and rates are based. The next number, 007 in the example, is an internal number used in producing the wage determination. 5/13/2014 indicates the survey completion date for the classifications and rates under that identifier.

Survey wage rates are not updated and remain in effect until a new survey is conducted.

Union Average Rate Identifiers

Classification(s) listed under the UAVG identifier indicate

that no single majority rate prevailed for those classifications; however, 100% of the data reported for the classifications was union data. EXAMPLE: UAVG-OH-0010 08/29/2014. UAVG indicates that the rate is a weighted union average rate. OH indicates the state. The next number, 0010 in the example, is an internal number used in producing the wage determination. 08/29/2014 indicates the survey completion date for the classifications and rates under that identifier.

A UAVG rate will be updated once a year, usually in January of each year, to reflect a weighted average of the current negotiated/CBA rate of the union locals from which the rate is based.

WAGE DETERMINATION APPEALS PROCESS

1.) Has there been an initial decision in the matter? This can be:

- * an existing published wage determination
- * a survey underlying a wage determination
- * a Wage and Hour Division letter setting forth a position on a wage determination matter
- * a conformance (additional classification and rate) ruling

On survey related matters, initial contact, including requests for summaries of surveys, should be with the Wage and Hour Regional Office for the area in which the survey was conducted because those Regional Offices have responsibility for the Davis-Bacon survey program. If the response from this initial contact is not satisfactory, then the process described in 2.) and 3.) should be followed.

With regard to any other matter not yet ripe for the formal process described here, initial contact should be with the Branch of Construction Wage Determinations. Write to:

Branch of Construction Wage Determinations
Wage and Hour Division
U.S. Department of Labor
200 Constitution Avenue, N.W.
Washington, DC 20210

2.) If the answer to the question in 1.) is yes, then an interested party (those affected by the action) can request review and reconsideration from the Wage and Hour Administrator (See 29 CFR Part 1.8 and 29 CFR Part 7). Write to:

Wage and Hour Administrator
U.S. Department of Labor
200 Constitution Avenue, N.W.
Washington, DC 20210

The request should be accompanied by a full statement of the interested party's position and by any information (wage payment data, project description, area practice material, etc.) that the requestor considers relevant to the issue.

3.) If the decision of the Administrator is not favorable, an interested party may appeal directly to the Administrative Review Board (formerly the Wage Appeals Board). Write to:

Administrative Review Board
U.S. Department of Labor
200 Constitution Avenue, N.W.
Washington, DC 20210

4.) All decisions by the Administrative Review Board are final.

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END OF GENERAL DECISION



Power equipment operators:

Excavator.....	\$ 16.74	
Backhoe.....	\$ 13.25	
Bulldozer.....	\$ 14.00	
Crane.....	\$ 14.91	0.58
Front End Loader.....	\$ 11.75	0.92
Grader.....	\$ 12.20	1.48
Tractor.....	\$ 12.38	1.51

TRUCK DRIVER.....\$ 12.28 0.98

WELDERS - Receive rate prescribed for craft performing operation to which welding is incidental.

Unlisted classifications needed for work not included within the scope of the classifications listed may be added after award only as provided in the labor standards contract clauses (29CFR 5.5 (a) (1) (ii)).

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A UAVG rate will be updated once a year, usually in January of each year, to reflect a weighted average of the current negotiated/CBA rate of the union locals from which the rate is based.

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Administrative Review Board
U.S. Department of Labor
200 Constitution Avenue, N.W.
Washington, DC 20210

4.) All decisions by the Administrative Review Board are final.

=====

END OF GENERAL DECISION



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CONSENT OF SURETY COMPANY TO FINAL PAYMENT

TO (Owner):

PROJECT NO:

PROJECT:
(name, address)

CONTRACT FOR:

CONTRACT DATE:

CONTRACTOR:

In accordance with the provisions of the Contract between the Owner and the Contractor as indicated above, the
(here insert name and address of Surety as it appears in the bond).

, SURETY COMPANY,

on bond of (here insert name and address of Contractor)

, CONTRACTOR,

hereby approves of the final payment to the Contractor, and agrees that final payment to the Contractor shall not relieve the Surety
company of any of its obligations to (here insert name and address of Owner)

, OWNER,

as set forth in the said Surety Company's bond.

IN WITNESS WHEREOF,
the Surety Company has hereunto set its had this

day of 20 .

Surety Company

Signature of Authorized Representative

Title

ATTEST:
(Seal):

NOTE: This form is to be use as a companion document to Contractor's Affidavit of Payment of Debts and Claims.

CONTRACTOR'S AFFIDAVIT OF RELEASE OF LIEN

TO (Owner):

PROJECT NO:

CONTRACT FOR:

PROJECT:
(name, address)

CONTRACT DATE:

State of:

County of:

The undersigned, hereby certifies that, to the best of his knowledge, information and belief, except as listed below, the Releases or Waivers of Lien attached hereto include the Contractor, all Subcontractors, all suppliers of materials and equipment, and all performers of Work, labor or services who have or may have liens against any property of the Owner arising in any manner out of the performance of the Contract referenced above.

EXCEPTIONS: (If none, write "None". If required by the Owner, the Contractor shall furnish bond satisfactory to the Owner for each exception.)

SUPPORTING DOCUMENTS ATTACHED HERETO:

1. Contractor's Release or Waiver of Liens, conditional upon receipt of final payment.
2. Separate Releases or Waivers of Liens from Sub-contractors and material and equipment suppliers, to the extent required by the Owner, accompanied by a list thereof.

CONTRACTOR:

Address:

BY:

Subscribed and sworn to before me this

day of 20

Notary Public:

My Commission Expires:

CONTRACTOR'S AFFIDAVIT OF PAYMENT OF DEBTS AND CLAIMS

TO (Owner):

PROJECT NO:

CONTRACT FOR:

PROJECT:
(name, address)

CONTRACT DATE:

State of:

County of:

The undersigned, hereby certifies that, except as listed below, he has paid in full or has otherwise satisfied all obligations for all materials and equipment furnished, for all work, labor, and services performed, and for all known indebtedness and claims against the Contractor for damages arising in any manner in connection with the performance of the Contract referenced above for which the Owner or his property might in any way be held responsible.

EXCEPTIONS: (If none, write "None". If required by the Owner, the Contractor shall furnish bond satisfactory to the Owner for each exception.)

SUPPORTING DOCUMENTS ATTACHED HERETO:

1. Consent of Surety to Final Payment.
Whenever Surety is involved, consent of Surety is required. CONSENT OF SURETY, may be used for this purpose.
Indicate attachment: yes _____ no _____

CONTRACTOR:

Address:

BY:

Subscribed and sworn to before me this

day of _____ 20

Notary Public:

My Commission Expires:

The following supporting documents should be attached hereto if required by the Owner:

1. Contractor's Release or Waiver of Liens, conditional upon receipt of final payment.
2. Separate Releases or Waivers of Liens from Subcontractors and material and equipment suppliers to the extent required by the Owner, accompanied by a list thereof.
3. Contractor's Affidavit of Release of Liens.

CONSENT OF SURETY TO REDUCTION IN OR PARTIAL RELEASE OF RETAINAGE

TO (Owner):

PROJECT NO:

PROJECT:
(name, address)

CONTRACT FOR:

CONTRACT DATE:

In accordance with the provisions of the Contract between the Owner and the Contractor as indicated above, the
(here insert name and address of Surety as it appears in the bond).

, SURETY,

on bond of (here insert name and address of Contractor as it appears in the bond)

, CONTRACTOR,

hereby approves the reduction in or partial release of retainage to the contractor as follows:

The Surety agrees that such reduction in or partial release of retainage to the Contractor shall not relieve the Surety of any of its
obligations to (here insert name and address of Owner)

, OWNER,

as set forth in the said Surety's bond.

IN WITNESS WHEREOF,
the Surety has hereunto set its had this

day of

20 .

Surety

Signature of Authorized Representative

Title

ATTEST:
(Seal):

SECTION IV
General Terms and Conditions

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GENERAL TERMS AND CONDITIONS

1. COUNTY AS OWNER

The word "County" in this contract refers to the County of Galveston.

2. CONTRACTOR

The word "Contractor" refers to the person or entity agreeing to perform the work in this contract.

3. PROGRAM ADMINISTRATOR

The term "Program Administrator" refers to the person designated by County to act on its behalf in administering this contract.

4. STATUS OF CONTRACTOR

The Contractor shall at all times be considered to be an independent contractor, and will not hold itself or its employees out to be employees or agents of the County of Galveston.

The Contractor shall provide, at the Contractor's expense, competent, full-time supervision of the work while actually in progress.

5. ASSIGNMENT AND SUBLETTING

The Contractor will retain full control over this contract and will not assign or subcontract said contract without the prior written consent of the County. The Contractor further agrees that the subcontracting of any portion or feature of the work shall not relieve the Contractor from its full obligations under this contract.

6. EQUAL OPPORTUNITY

The Contractor and all Subcontractors shall not discriminate against any employee or applicant for employment because of race, religion, color, sex, or national origin.

The Contractor agrees to post in conspicuous places, available to employees and applicants for employment, notices setting forth the policies of non-discrimination.

7. CONTRACT

This contract consists of the following documents; Invitation to Bid, Instructions to Bidders, Bid Proposal, Contract Award, Special Terms and Conditions (including specifications, drawings and addenda), General Terms and Conditions, and any other documents referenced herein or attached hereto for the work. Collectively these documents may also be referred to as the Plans and Specifications.

8. DISCREPANCIES AND OMISSIONS

In the event of any discrepancy between the Plans and Specifications, or otherwise, or in the event of any doubt as to the meaning and intent of any portion of the Plans and Specifications, the Program Administrator shall define which is intended to apply to the work. Such definition shall be final and binding on Contractor.

9. COLLATERAL CONTRACT

The County reserves the rights to provide by separate contract or otherwise, in such manner as not to delay its programs or damage said Contractor, all labor and material essential to the completion of the work that is not included in this contract.

10. TIME

The Contractor is advised that time for completion will consist of the number of calendar days set out in the Contract Award.

The time for completion will begin to run on the day after the issuance of a notice to proceed by the Program Administrator. The Contractor is required to start work no later than ten (10) working days after the issuance of the written notice to proceed. Failure to timely commence operations may be deemed by the County to be a default. The Contractor will complete the work at that site within the time period specified. If there is more than one site listed on the notice to proceed, work for all sites must be completed not later than is specified for each site by the Program Administrator.

11. TIME AND ORDER OF COMPLETION

The Contractor will commence work within ten (10) working days after the issuance of the notice to proceed and will substantially complete it within the time specified in the Contract Award.

By the term "substantially completed" is meant that work shall be fully completed with the exception of minor miscellaneous work and adjustment.

12. EXTENSION OF TIME

Should the Contractor be delayed in the completion of the work by an act or neglect of the County or Program Administrator, or by any employee of either, or by other Contractors employed by the County, or by changes ordered in the work, or by strikes, lockouts, fire, or unusual delays by common carriers, or unavoidable cause or causes beyond the Contractor's control or by any cause which the Program Administrator shall decide justifies the delay, then an extension of time shall be allowed for completing the work sufficient to compensate for the delay. The Contractor shall give the Program Administrator prompt notice in writing of the cause of such delay. The amount of the extension will be determined by the Program Administrator.

13. LOSSES FROM NATURAL CAUSES

All damage to the work from the action of the elements, or from any unforeseen circumstances in the prosecution of the work shall be repaired by the Contractor at his own cost.

14. KEEPING OF PLANS AND SPECIFICATIONS ACCESSIBLE

The Contractor shall keep one (1) copy of all Plans and Specifications constantly accessible at the work site and available for inspection at all times.

15. PERFORMANCE OF WORK

All work shall be performed and completed in a thorough, workmanlike manner and in accordance with the latest proven practices of the trade by thoroughly skilled and experienced workers.

16. STORAGE AND CLEANUP

The County does not assume responsibility for any materials, tools, or equipment stored on or about the worksite. The worksite shall be cleared of debris by the Contractor continuously through the progress of the work and also upon final completion of the work.

17. WORKING HOURS

Contractor may perform work twenty four hours a day, seven days a week, unless otherwise restricted by the Special Conditions of this contract.

18. WORKSITE SECURITY

Contractor shall maintain the security of the worksite and shall restrict access to the site to the following:

- a) its employees;
- b) employees of subcontractors;
- c) representatives of manufacturers whose goods are utilized in the work and are called to the site by either the Contractor or the Program Administrator; and
- d) agents and/or employees of the County.

Contractor shall provide adequate protection to persons on the worksite, adjacent properties, and utilities as is necessary to keep each free of damage or injury. Contractor shall furnish all barricades, warning lights and other safety devices necessary for the safety and protection of the public and shall remove them upon completion of the work performed on those premises under the terms of this contract.

Contractor will have complete control over the work site and shall be fully responsible for any loss of or damage to any County property from any cause and will reimburse County in the event of any loss or damage to County's property from any cause.

Contractor shall take proper means to protect adjacent or adjoining properties which might be injured or seriously effected by construction undertaken under this Agreement from any damage or injury by reason of said process of construction. Contractor shall be liable for any and all claims for such damage on account of its failure to fully protect all adjoining properties.

19. ALCOHOL/DRUG FREE WORKPLACE

The County is committed to maintaining an alcohol and drug free workplace. Possession, use or being under the influence of alcohol or controlled substances by the Contractor's employees while in the performance of this Contract is prohibited. Violation of this requirement shall constitute grounds for immediate termination of the contract.

20. LABOR

Contractor is encouraged to use local labor, but not at the expense of poor workmanship and higher cost.

Contractor will not discriminate against any employee or applicant for employment because of race, religion, creed, color or national origin. Contractor agrees to post in a conspicuous place a notice setting forth provisions of this non-discrimination clause.

In the event of Contractor's non-compliance with the non-discrimination clause of this contract, the contract entered into may be canceled in whole or in part.

21. WAGE RATES

This Contract is a Public Works Contract governed by V.T.C.A., Government Code, Chapter 2258. That Act requires Contractor to pay workers not less than the general prevailing rate of per diem wages for work of a similar character in the locality in which the work is performed and not less than the general prevailing rate of per diem wages for legal holiday and overtime work.

Prevailing wage rates determined by the United States Department of Labor in accordance with the Davis-Bacon Act (40 U.S.C. Section 276a et seq) are used in this contract and are incorporated and made a part hereof.

In the event other crafts or types of workers are required than are listed therein, such workers shall be paid at a rate not less than the prevailing rate for similar workers in the Galveston County area.

Contractor acknowledges that:

A) Pursuant to V.T.C.A., Government Code §2258.022, a violation of the obligation to pay workers the prevailing wages shall result in Contractor paying the County the amount of \$60.00 for each worker employed for each calendar day or part of the day that the worker is paid less than the wage rates stipulated in the Contract; and

B) Contractors and Subcontractors shall be required to keep a record showing the name and occupation of each worker employed by Contractor or Subcontractor in the construction of the work called for in the contract and the actual per diem wages paid to each worker. The record shall be open at all reasonable hours to inspection by the officers and agents of the County.

Contractor represents it has read this law and the penalties provided prior to entering into this agreement.

22. UTILITIES

Contractor shall be responsible for any charges which may be made by any city or utility companies for the work to be performed by Contractor.

23. PARKING

Contractor shall be responsible for the expense of parking the Contractor's vehicle(s) in a legal manner and at no expense or inconvenience to the County.

24. FIRE AND SAFETY

Contractor is completely responsible for fire protection at the job site as well as the safety of its own employees as well as those entering onto the job site.

25. CONTRACTOR'S BUILDINGS

The building of structures for housing men, or the erection of tents or other forms of protection will be permitted only at such places as the Program Administrator shall permit, and the sanitary conditions of the grounds in or about such structures shall at all times be maintained in the manner satisfactory to the Program Administrator.

26. INSURANCE

Contractor shall obtain and pay for insurance set forth below prior to commencing work, and shall file with the Program Administrator certificates or copies of policies for approval and as proof of coverage:

- 1) Workmen's Compensation
 - a. State Statutory
 - b. Applicable - Statutory

- 2) Comprehensive General Liability (including Premises – Operations; Independent Contractor's Protective; Products and Completed Operations; Broad Form Property Damage)
 - a. Bodily Injury –
 - \$100,000.00 each person, each occurrence
 - \$300,000.00 Aggregate, each occurrence
 - b. Property Damage including loss of use –
 - \$100,000.00 Each occurrence
 - c. Products and Completed Operations to be maintained for 1 year after Final Payment
 - d. Property Damage Liability Insurance will provide X, C or U coverage as applicable

- 3) Contractual Liability
 - a. Bodily Injury
 - \$100,000.00 Each Person
 - \$300,000.00 Each occurrence
 - b. Property Damage
 - \$100,000.00 Each occurrence

- 4) Personal injury, with Employment Exclusion deleted:
 - \$100,000.00 Each occurrence

- 5) Comprehensive Automobile Liability (including owned, non-owned and hired motor vehicles):
 - a. Bodily Injury
 - \$100,000.00 Each Person
 - \$300,000.00 Each occurrence
 - b. Property Damage
 - \$100,000.00 Each occurrence

- 6) Builders Risk Insurance

The Contractor shall furnish one copy of each Certificate of Insurance herein required with each signed copy of the Agreement and prior to commencement of the work. The Contractor shall furnish to the Owner copies of any endorsements that are subsequently issued amending coverage or limits. Receipt of all required notices shall be evidenced by return receipt of registered or Certified letter. The policies shall contain provision that coverages will not be cancelled until at least thirty days' prior written notice has been given to the County. In the event of such notice of cancellation being given the Contractor will provide substitute policies with the same provisions to county prior to the effective date of such cancellation.

The above requirements do not establish limits of Contractor's liability.

Contractor shall at all times during the term of this contract and any extensions thereof maintain such insurance coverage.

Such insurance is to be provided at the sole cost of Contractor.

All policies of insurance shall waive all rights of subrogation against County, its officers, employees and agents.

The County shall be named as "additional insured" on such policies as are specified above.

The County reserves the right to require additional insurance should it be deemed necessary.

27. SANITATION

Necessary sanitary conveniences for the use of laborers at the worksite, properly secluded from the public observation, shall be constructed and maintained by Contractor in such manner at such points as shall be approved by the Program Administrator, and their use shall be strictly enforced.

28. DAILY CLEANUP

Contractor shall confine to the work site all materials and refuse generated by Contractor's operations. Materials which are stored on-site shall be stored in an orderly manner. Materials or refuse from demolition and/or removal operations which become scattered in adjacent areas shall be collected and returned to the work site and satisfactorily removed. Truck hauling materials must be covered to keep materials from littering streets.

29. FINAL GRADING

If grading is required, when work is complete, Contractor shall grade the site to fill in holes and make a presentable appearance without disturbing trees and add fill dirt if needed. Contractor may not leave voids in the grading and compaction of the property. The land shall have a smooth appearance without concrete, bricks, building materials, and other debris on the surface.

30. RIGHT OF ENTRY

County reserves the right to enter the property or location at which the work is being conducted, by such agents as it may elect, for the purpose of inspecting the work, or for the purpose of constructing or installing such collateral work as County may desire, or for any other purpose deemed necessary by County.

31. INSPECTION

County reserves the right to inspect the work done by Contractor at any time.

The inspection may include examination of the material furnished and the work done under this agreement to ensure compliance with the plans and specifications.

Contractor shall furnish all reasonable aid and assistance required by the inspector(s) for the proper inspection and examination of the work. The inspector(s) may make any order requiring remedy of deficient performance at any time. Should Contractor object to any order by any inspector, Contractor may, within 24 hours, make written appeal to the Program Administrator for his decision, which decision shall be final and binding on Contractor.

The approval or failure of an inspector to reject non complying work or materials shall not relieve Contractor of his obligation to perform the work in full compliance with the plans and specifications for the work.

Contractor shall be responsible for the costs associated by the exposing and covering of any item of concealed work for which an inspection is performed.

32. DEFECTS AND THEIR REMEDIES

It is further agreed that if the work or any part thereof, or any material brought on the ground for use in the work or selected for the same, shall be deemed by the Program Administrator as unsuitable or not in conformity with the specifications Contractor shall, after receipt of written notice thereof from the Program Administrator, forthwith remove such material and rebuild or otherwise remedy such work so that it shall be in full accordance with this contract.

33. SUBSTANTIAL COMPLETION

When the Contractor determines that the work is substantially complete, he shall advise the Program Administrator of such and schedule a time for the Program Administrator to inspect the work. Contractor shall have all systems fully functional and operational for the inspection of the Program Administrator. All phases of the work will be examined by the Program Administrator, who will note any deficiencies in the work and notify Contractor of the same.

The Program Administrator may acknowledge that the project is substantially complete if the work has been completed to the point where the work can be utilized for the general purpose for which it was undertaken; however, if the project is found not to be substantially complete, the Program Administrator will so advise the Contractor.

34. FINAL COMPLETION AND ACCEPTANCE

Within ten (10) days after Contractor has given the Program Administrator written notice that the work has been completed, or substantially completed, the Program Administrator shall inspect the work and, within said time, if the work be found to be completed or substantially completed in accordance with the plans and specifications, the Program Administrator shall issue a substantial completion certificate.

Should such inspection reveal deficiencies on the work, the Program Administrator will deliver a list of deficiencies to Contractor for immediate repair. No final payment will be made until all deficiencies have been remedied.

35. PARAGRAPH 35 HAS BEEN DELETED

36. PROGRESS PAYMENTS AND RETAINAGE

If this contract provides for the making of progress payments, Contractor shall make application to County for payment utilizing forms provided by County for that purpose. Contractor shall state the percentage or the limits of the work performed and request payment for the amount of acceptable work performed. Applications for payment shall be made monthly by Contractor.

The County shall then pay the Contractor on or before 45 days thereafter, the total amount of the request, less 5% of the amount thereof, which 5% shall be retained until final payments, and further less all previous payments, and further less all further sums that may be retained by the County under the terms of this agreement.

Upon the attainment of substantial completion, payment will be made so that the sum of all payments made under the contract equals Ninety Five Percent (95%) of the total contract amount.

37. ESTIMATED QUANTITIES

This Contract, including the specifications, plans and estimates, is intended to show clearly all the work to be done and material to be furnished hereunder. The estimated quantities of the various classes of work to be done and material to be furnished under this contract are approximate and are to be used as a basis for estimating the probable cost of the work and for comparing the proposals offered for the work. It is understood and agreed that the actual amount of work to be done and material to be furnished under this contract may differ somewhat from these estimates, and that the basis for payment under this contract shall be the plan quantity or actual amount of such work done whichever is specified. It is further understood that the County does not guarantee any minimum amount of work under this Contract.

Contractor agrees that it will make no claim for damages, anticipated profits or otherwise on account of any differences which may be found between the quantities of work actually done, the material actually furnished under this Contract and the estimated quantities contemplated and contained in the proposals.

38. CHANGES AND ALTERATIONS

Contractor further agrees that Program Administrator may make such changes and alterations as County may see fit, in the line, grade, form dimensions, plans or materials for the work herein contemplated, or any part thereof, either before or after the beginning of the contract construction, without affecting the validity of this Contract and the accompanying bonds.

If such changes or alterations diminish the quantity of the work to be done, they shall not constitute the basis for a claim for damages, or anticipated profits on the work that may be dispensed with. If they increase the amount of the work, and the increased work can fairly be classified under the specifications, such increase shall be paid for according to the quantity actually done and at the unit price established for such work under this contract; otherwise such additional work shall be paid for as provided under the paragraph entitled "EXTRA WORK". In case Program Administrator shall make such changes or alterations as shall make useless any work already done or material already furnished or used in said work, then County shall recompense Contractor for any material or labor so used, and for any actual loss occasioned by such change due to actual expenses incurred in preparation for the work as originally planned.

39. EXTRA WORK

The term "Extra Work" as used in this contract shall be understood to mean and include all work that may be required by the Program Administrator to be done by Contractor to accomplish any change, alteration or addition to the work shown in the plans and specifications.

It is agreed that Contractor shall perform all Extra Work under the direction of the Program Administrator when presented with a Written Work Order signed by the Program Administrator: subject, however, to the right of Contractor to require a written confirmation of such Extra Work Order by the County Commissioners' Court. It is also agreed that the compensation to be paid Contractor for performing said Extra Work shall be determined by one or more of the following methods:

Method (a) - By agreed unit prices; or

Method (b) - By agreed lump sum: or

Method (c) - If Neither Method (a) nor Method (b) can be agreed upon before the Extra Work is commenced, then Contractor shall be paid the "Actual field cost" of the work plus fifteen (15) percent.

In the event said Extra Work be performed and paid for under Method (c), then the provisions of this paragraph shall apply and the "actual field cost" is hereby defined to include the cost of all workmen, such as foremen, timekeepers, merchants, and laborers, and materials, supplies, teams, trucks, rentals on machinery and equipment for time actually employed or used on such Extra Work plus actual transportation charges necessarily incurred, if the kind of equipment or machinery is not already on the job, together with all power, fuel, lubricants, water and similar operating expenses, also all necessary incidental expenses incurred directly on account of such Extra Work including Social Security, Old Age Benefits and other payroll taxes, and a ratable proportion of premiums on Construction and Maintenance Bonds, Public Liability and Property Damage and Workmen's Compensation, and all other insurance as may be required by any law or ordinance, or directed by the Program Administrator or by him agreed. The Program Administrator may direct the form in which accounts of the "actual field cost" shall be kept and may also specify in writing, before the work commences, the method of doing the work and the type and kind of machinery and equipment to be used, otherwise these matters shall be determined by Contractor. Unless otherwise agreed upon, the prices for the use of machinery and equipment shall be determined by using the one hundred (100) percent of the actual hourly or daily rate (for the time used plus time in moving to and from Job) of the latest schedule of Equipment Ownership Expense adopted by the Association General Contractors of America. Where practicable the terms and prices for the use of Machinery and Equipment shall be incorporated in the Written Extra Work Order. The fifteen (15) percent of the "Actual Field Cost" to be paid Contractor shall cover and compensate him for his profit, overhead, general superintendence and field office expense, and all other elements of cost and expense not embraced within the 'actual field cost' as herein defined, save that where the Contractor's Camp or Field Office must be maintained primarily on account of such extra work, then the cost to

maintain and operate same shall be included in the "actual field cost".

No claim for extra work of any kind will be allowed unless ordered in writing by the Program Administrator. In case any orders or instructions, either oral or written appear to Contractor to involve extra work for which he should receive compensation, it shall make written request to the Program Administrator for written order authorizing Extra Work. Should a difference of opinion arise as to what does or does not constitute extra work, or as to the payment therefor, and the Program Administrator insists upon its performance, Contractor shall proceed with the work after making written order and shall keep an accurate account of the "actual field cost" thereof, as provided under Method (c) and by this action Contractor will thereby preserve the right to submit the matter of payment to litigation.

40. FINAL PAYMENT

Upon the issuance of the approval for payment, the Program Administrator shall certify same to County, who shall pay to Contractor the balance due Contractor under the terms of this agreement, provided it has fully performed its contractual obligations under the terms of this contract; and has provided County with a release of liens from all materialmen, suppliers and subcontractors utilized in the work.

41. HINDRANCES AND DELAYS

No charge shall be made by Contractor for hindrances or delays from any cause (except when work is stopped by order of the County) during the progress of any portion of the work embraced in this contract. In case said work shall be stopped by the act of Program Administrator then such expense as in the judgment of the Program Administrator is caused by stopping of said work shall be paid by County to Contractor.

42. TIME OF FILING CLAIMS

It is further agreed by both parties hereto that all questions of dispute or adjustment presented by Contractor shall be in writing and filed with the Program Administrator within a reasonable time after the Program Administrator has given any directions, order, or instruction to which Contractor desires to take exception. The Program Administrator shall reply to such written exceptions by Contractor and render his final decision in writing.

43. LIQUIDATED DAMAGES FOR DELAY

Contractor agrees that time is of the essence of this contract and that for each day of a delay of a day beyond the number of working days or calendar days herein agreed upon the completion of the work herein specified and contracted for (after due allowance for such extension of time as is provided for under Extension of Time hereinabove) County may withhold permanently from Contractor's total compensation the sum specified in the special conditions as liquidated damages for such delay.

44. ABANDONMENT BY CONTRACTOR

Should Contractor fail to start or resume work within ten (10) days after written notification from the Program Administrator or if Contractor fails to comply with a change order or instruction of the Program Administrator, Contractor shall be declared to be in default and the Surety on the bonds shall be notified in writing and directed to complete the work, and a copy of said notice shall be delivered to Contractor.

In case the Surety should fail to commence compliance with the notice for completion hereinbefore provided for within ten (10) days after services of such notice, or in the event there is no Surety, then County may provide for completion of the work in any manner it deems appropriate.

45. TERMINATION

County may terminate this Contract:

- i. immediately by giving written notice, if Contractor breaches its obligation under the Contract; or
- ii. with or without cause, after giving 30 days written notice of termination to Contractor.

In the event this Contract is terminated Contractor will be paid for work satisfactorily completed. The amount of such payment will be determined by the Program Administrator.

46. SALVAGE

Any materials, equipment and fixtures specifically ordered to be salvaged under these specifications shall remain the property of County and will be delivered to the site designated by the Program Administrator. All other items shall be disposed of by Contractor in compliance with all applicable laws and regulations.

47. COMPLIANCE WITH CODES

Contractor shall comply with all city, county, and state codes, laws, and ordinances in force at the time of award of contract and applicable to such work. Contractor shall obtain, at Contractor's own expense such permits, certificates, and licenses as may be required in the performance of the specified work.

48. INDEMNITY

Contractor shall defend, indemnify, and save whole and harmless Galveston County, and its officers, agents, and employees from and against all claims and suits of whatever character, arising from the performance of this contract.

49. PROTECTION AGAINST CLAIMS OF SUBCONTRACTORS, LABORERS, MATERIALMEN AND FURNISHERS OF MACHINERY EQUIPMENT AND SUPPLIES

Contractor agrees to indemnify and hold County harmless from all claims of subcontractors, laborers, workmen, mechanics, material men and furnishers of equipment, and all supplies incurred in the performance of this contract. Contractor shall furnish satisfactory evidence that all obligations of the nature hereinabove designated have been paid, discharged or waived. If Contractor fails to do so, then County reserves the right to pay unpaid bills of which County has written notice direct and withhold from Contractor's unpaid compensation a sum of money reasonably sufficient to liquidate any and all such lawful claims.

50. PROTECTION AGAINST ROYALTIES, PATENTED INVENTIONS OR PROCESS, OR PATENT INFRINGEMENT

Contractor shall, at its own expense, settle or defend any claim, suit or action brought against County and shall protect and save harmless County from all and every demand for damages, royalties or fees for any patented invention or process used by it in connection with the work done, process used or material furnished under this Contract, and shall pay any final judgement for damages, attorneys fees and costs which may be awarded against County.

51. LAWS AND ORDINANCES

Contractor shall at all times observe and comply with all Federal, State and Local Laws, ordinances and regulations which in any manner effect the contract or the work, and shall indemnify and save harmless the County against any claim arising from the violation of any such laws and ordinances, whether by Contractor or its employees.

52. WARRANTY

Contractor and/or its Surety will be required by County to repair, replace, restore, and/or to make such corrections as are required of it to comply strictly in all things with this contract and the Plans and Specifications and any and all of said work and/or materials, which, within a period of one year from and after the date of the passing, approval, and/or acceptance of any such work or materials, are found to be defective or to fail in any way to comply with this contract or with the Plans and Specifications.

53. PERMITS AND LICENSES

Contractor shall be responsible for obtaining and furnishing all necessary permits and licenses, City, County, State or Federal as are required for the performance of this contract.

54. NOTICE

Any notice required or permitted between the parties under this contract must be in writing and shall be delivered in person or mailed, certified mail, return receipt requested, or may be transmitted by fax as follows:
to County at:

Hon. Mark Henry, County Judge
Galveston County Courthouse, 2nd floor
Galveston, TX 77550
Fax (409) 765-2653

and to Contractor at the address listed in Contractor's Bid Proposal.

55. FORCE MAJEURE

If the performance by County of any of its obligations under this contract is delayed by any occurrence not of its own conduct, whether an act of God or the common enemy or the result of war, riot, civil commotion, sovereign conduct, or the act or conduct of any person not a party or privy to this contract, the County is excused from its performance for a period of time as is reasonably necessary after the occurrence to remedy the effects of the occurrence.

56. APPLICABLE LAWS

Contractor acknowledges that County is a governmental entity and this Agreement is an open record under the Open Records Act and will be discussed and voted upon in a public meeting.

57. ENTIRETY OF AGREEMENT AND MODIFICATION

This contract contains the entire agreement between the parties. A prior agreement, promise, negotiation or representation not expressly set forth in this contract has no force or effect. A subsequent modification to this contract must be in writing, signed by both parties.

An official representative, employee, or agent of the County does not have authority to modify or amend this contract except pursuant to specific authority to do so granted by the Commissioners' Court.

58. SEVERABILITY; CONFORMITY WITH LEGAL LIMITATIONS

If a provision contained in this contract is held invalid for any reason, the invalidity does not affect other provisions of the contract that can be given effect without the invalid provision, and to this end the provisions of this contract are severable.

59. GOVERNING LAW; VENUE

This contract shall be governed by the laws of the State of Texas. Venue for an action arising under this contract shall be exclusively in Galveston County.

60. LINES AND GRADES

The Engineer will furnish points for horizontal and vertical control. Any additional stakes required by the Contractor shall be set at his expense. Whenever necessary, work shall be suspended to permit this work, but such suspension will be as brief as practicable and the Contractor shall be allowed no extra compensation therefor. The Contractor shall give the Engineer ample notice of the time and place where control lines and bench marks will be needed. All control stakes, marks, etc. shall be carefully preserved by the Contractor, and in case of careless destruction or removal by him or his employees, such control stakes, marks, etc. shall be replaced by the Engineer at the Contractor's expense.

61. EMPLOYMENT VERIFICATION

The Immigration Reform and Control Act (IRCA) of 1986 prohibits contractors from knowingly hiring illegal workers. Accordingly, Contractors and Subcontractors must collect information regarding an employee's identity and employment eligibility and document that information on Form I-9. In addition, Contractors and Subcontractors will be required to utilize E-Verify to verify that the information their employees provided was valid or that the documents presented were genuine. Contractors and Subcontractors shall also be required to keep a record on each employee showing compliance with this requirement. The records shall be open at all reasonable hours to inspection by the Galveston County Wage Compliance Officer. Each violation of this requirement shall result in the Contractor and/or Subcontractor paying the County the amount of \$60.00 for each employee employed for each calendar day or part of the day that the Contractor and Subcontractor failed to comply with the requirements of this general condition.

62. CERTIFICATION REGARDING DEBARMENT, SUSPENSION INELIGIBILITY, AND VOLUNTARY EXCLUSION

By submission of its proposal, proposer certifies that it is not ineligible for participation in federal or state assistance program under Executive Order 12549, "Debarment and Suspension." Proposer further agrees to include this certification in all contracts between itself and any subcontractors in connection with services performed under this contract. Proposer also certifies that it shall notify Galveston County in writing immediately if contractor is not in compliance with Executive Order 12549 during the term of this contract. Proposer agrees that it shall refund Galveston County for any payments made to it while ineligible.



County of Galveston

ACKNOWLEDGMENT AND CERTIFICATION REGARDING DEBARMENT,
SUSPENSION, AND OTHER INELGIBILITY

Executive Orders 12549 & 12689 Certification, Debarment and Suspension

Solicitation Number: RFP #B151017

Solicitation Title: Lee & Joe Jamail Bay Park

Contractor hereby CERTIFIES that:

Contractor, and all of its principals, is not presently debarred, suspended, proposed for debarment, proposed for suspension, or declared ineligible under Executive Order 12549 or Executive Order 12689, Debarment and Suspension, and is not in any other way ineligible for participation in Federal or State assistance programs;

Contractor, and all of its principals, were not and have not been debarred, suspended, proposed for debarment, proposed for suspension, or declared ineligible under Executive Order 12549 or Executive Order 12689, Debarment and Suspension, and were not and have not been in any other way ineligible for participation in Federal or State assistance programs at the time its' proposal was submitted in the procurement identified herein and at any time since submission of its' proposal;

Contractor has included, and shall continue to include, this certification in all contracts between itself and any sub-contractors in connection with services performed under this contract; **and**

Contractor shall notify Galveston County in writing immediately, through written notification to the Galveston County Purchasing Agent, if Contractor is not in compliance with Executive Order 12549 or 12689 during the term of its contract with Galveston County.

Contractor **Represents** and **Warrants** that the individual executing this Acknowledgment and Certification on its behalf has the full power and authority to do so and can legally bind the Contractor hereto.

Name of Business

Date

By: _____

Signature

Printed Name & Title

GENERAL NOTES AND SPECIFICATION DATA

1. The Contractor shall carefully examine the drawings and specifications, visit the site of this work, and check the proposed locations of all new work. The Contractor shall inform himself, in detail, as to all existing conditions, limitations, available clearances, and shall thoroughly check all facilities, which are to be removed and/or relocated.
2. Where a material or product is referred to on the drawings by a manufacturer's brand or trade name, it is for the purpose of establishing a standard or quality. Similar materials or products of equal quality (meeting design requirements) from other manufacturer's will be given due consideration provided they are submitted to and approved by the Engineer as per the provisions of the general conditions.
3. An effort to determine all the pipelines and utilities which may impact the project has been made. All known pipelines and utilities have been approximately located and shown on the plans. The Contractor shall notify all utility and pipeline owners before beginning the work. Additional unknown utilities and pipelines may be found. Adjustment of these utilities or pipelines shall be done by others at no expense to the Contractor. However, the Contractor shall cooperate and coordinate his work with the adjustment. The Contractor will anticipate this in making his bid. The Contractor will not be allowed claims for damages or delays for these adjustments should they be necessary. However, additional time will be considered for the contract period. This action, however, shall in no way be interpreted as relieving the Contractor of his responsibilities under the terms of the contract as set out in the plans and specifications. The Contractor shall repair any damage to the County's facilities caused by his operations at the Contractor's expense and shall restore facilities to service in a timely manner.
4. The drawings and specifications are correlative and have equal authority and priority. Should they disagree in themselves, or with each other, base the bids on the most expensive combination of quality and quantity of the work indicated. The Engineer will clarify the project requirements in the event of the above mentioned disagreements.
5. All items of work required under this contract not specifically called for in the proposal as pay items shall be considered incidental and no separate payment shall be made for same.
6. Mixing of materials, storing of materials, storing of equipment or repairing of equipment on top of pavement or bridge decks will not be permitted unless specially authorized by the Engineer. Permission will be granted to store materials on subject surfaces if no damage or discoloration will result.
7. All removed, demolished, obliterated, excess and waste materials shall become the property of the Contractor and shall be properly disposed of off-site. Handling, hauling and disposal shall be considered subsidiary to the various bid items and no separate payment shall be made for same.

8. Item 110: Excavation

In those instances where manipulation of the excavated materials requires that the materials shall be removed more than once to accomplish the desired results, the excavation will be measured and paid for once only regardless of the manipulation required.

9. Item 500: Mobilization

The total lump sum payment for the bid item "Mobilization" shall not exceed 5% of the total bid.

10. Item 502: Barricades, Signs And Traffic Handling

For this project the Contractor will furnish and maintain all barricades and warning signs, including all temporary and portable traffic control devices necessary during the various phases of construction. These barricades and warning signs shall be constructed and placed in accordance with the latest Texas MUTCD and typical construction layouts, or as directed by the Engineer.

Two weeks prior to any alteration in traffic patterns, the Contractor will provide the Engineer, for his approval, a layout showing all signs, barricades, striping and signalization. The approval of this layout by the Engineer will not relieve the Contractor of his responsibility for the protection of the traveling public.

All advance warning signs are to be set prior to the start of construction activities and to remain in place until all construction activities are complete and accepted by Galveston County. The Contractor will coordinate with the Galveston County Engineering Department in establishing traffic routes and location of signs.

The Contractor shall provide, install, move, replace and maintain in a clean and good condition all barricades, signs, barriers, cones, lights, signals, and other such type devices as may be required by Item 502, "Barricades, Signs And Traffic Handling". Upon completion of the work, all barricades, signs, barriers, etc. and evidences there of shall be removed by the Contractor.

The Contractor will not block traffic without prior approval of the Engineer.

All equipment shall be off the road by dark and before dawn.

Existing drainage shall be maintained at all times.

During certain phases of construction flagmen may be required to direct and control traffic. This work will not be paid for directly but shall be considered incidental to Item 502, Barricades, Signs And Traffic Handling".

The Contractor shall be responsible for controlling excess dust, loose rocks and any other material produced by the work. The Contractor shall use methods which are reasonable and practical to control these problems.

The Contractor shall sweep and remove any material spilled or dropped from trucks along the haul route.

**SECTION V
SPECIFICATIONS**

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GOVERNING SPECIFICATIONS AND SPECIAL PROVISIONS

All Specifications and Special Provisions applicable to this Project are identified as follows:

STANDARD SPECIFICATIONS:

"Standard Specifications For Construction and Maintenance of Highways, Streets and Bridges" as adopted by the Texas Department of Transportation, November 1, 2014, shall govern for the consideration of this project. Said specifications in their entirety are hereby incorporated into the contract documents, and the Contractor shall comply with all provisions contained in said specifications and shall be bound by them in their entirety, except where modified in the project plans and specifications.

SPECIAL PROVISIONS:

Special Provisions to Items 1 thru 9, Item 110, Item 247, Item 491, and Item 506

SPECIAL ITEMS:

15001 – Prefabricated Metal Bridges
16050 – Electrical Construction

SPECIAL PROVISION TO ITEM 1

"DEFINITION OF TERMS"

For this project, Item 1 of the Texas Standard Specifications is hereby amended with respect to the clauses cited below and no other clauses or requirements of this Item are waived or changed hereby:

THE TERM "DEPARTMENT," "STATE," "STATE HIGHWAY DEPARTMENT OF TEXAS", "TXDOT", "TEXAS DEPARTMENT OF TRANSPORTATION", "STATE DEPARTMENT OF HIGHWAYS AND PUBLIC TRANSPORTATION," "STATE DEPARTMENT OF HIGHWAYS AND PUBLIC TRANSPORTATION COMMISSION," "COMMISSION," AND "STATE HIGHWAY COMMISSION," SHALL, IN THE USE OF THE STANDARD SPECIFICATIONS FOR ALL WORK IN CONNECTION WITH THIS PROJECT, BE DEEMED TO MEAN GALVESTON COUNTY, PARTY OF THE FIRST PART IN ACCOMPANYING CONTRACT OR CONTRACTS. ANY REFERENCE IN THE TEXAS STANDARD SPECIFICATIONS TO THE STATE OF TEXAS, ITS OFFICIALS, EMPLOYEES, OR AGENTS SHALL BE DEEMED TO MEAN GALVESTON COUNTY, ITS OFFICIALS, EMPLOYEES, OR AGENTS.

Articles 3.27, "Certificate of Insurance" ; 3.29, "Commission", 3.49, "Department", 3.74 "Letting Official " and 3.132 "State" are deleted.

Article 3.56, "ENGINEER", is revised to read in its entirety as follows:

3.56 ENGINEER. Galveston County Engineer or his authorized representatives. If a representative is authorized to function as the ENGINEER'S representative with respect to certain of the ENGINEER'S activities, that representative's responsibilities and obligations shall be limited as provided in Article 3.159.

Article 3.68, "INSPECTOR," is revised to read in its entirety as follows:

3.68 INSPECTOR. The representative of the ENGINEER assigned and authorized to observe or inspect any or all parts of the work and the material to be used therein. A representative is authorized to function as the ENGINEER'S representative with respect to certain of the activities, and that representative's responsibilities and obligations shall be limited as provided in Article 3.159.

Special Provisions to Item 1

"DEFINITION OF TERMS"

ADDITIONAL ARTICLES ARE ADDED AS FOLLOWS:

3.159 CONSULTING ENGINEER. Independent engineering firms contracting with Galveston County for the providing of professional engineering services. The engineering firms are the representatives of Galveston County only to the extent provided in the Contract documents and in such special instances where they are specifically authorized by Galveston County so to act. All powers and rights assigned by Galveston County to the engineering firms with respect to the work are solely and exclusively for the benefit of Galveston County -- and not for the CONTRACTOR. In carrying out of its powers and rights assigned by Galveston County the engineering firms shall function as a representative of Galveston County and shall act by and for Galveston County. Irrespective of what authority may be assigned by Galveston County to the engineering firms, CONTRACTOR remains fully and solely responsible and liable for its obligations to perform the work in accordance with the requirements of the plans and specifications; to insure against failures in safety precautions; to carry out his work pursuant to safe methods of construction; to select and fulfill the proper manner, means, and methods in performing the work in order to meet the plans and specifications; and to complete the work in accordance with the contract documents.

SPECIAL PROVISION TO ITEM 2

INSTRUCTIONS TO BIDDERS

For this project, Item 2 of the Texas Standard Specifications is hereby deleted in its entirety.

The Instructions To Bidders is included elsewhere in the Contract Documents.

SPECIAL PROVISION TO ITEM 3
AWARD AND EXECUTION OF CONTRACT

For this project, Item 3 of the Texas Standard Specifications is hereby deleted in its entirety.
The Award and Execution of Contract is included elsewhere in the Contract Documents.

SPECIAL PROVISION TO ITEM 4

SCOPE OF WORK

For this project, Item 4 of the Texas Standard Specifications is hereby amended with respect to the clauses cited below and no other clauses or requirements of this Item are waived or changed hereby.

ARTICLE 4.4 "CHANGES IN WORK;" ARTICLE 4.5 "DIFFERING SITE CONDITIONS" and ARTICLE 4.6 "REQUESTS AND CLAIMS FOR ADDITIONAL COMPENSATION" are deleted in their entirety and replaced by Article 38 "CHANGES and ALTERATIONS" and ARTICLE 39 "EXTRA WORK" of Section IV, "General Terms and Conditions".

SPECIAL PROVISION TO ITEM 5

CONTROL OF THE WORK

For this project, Item 5 of the Texas Standard Specifications is hereby amended with respect to the clauses cited below and no other clauses or requirements of this Item are waived or changed hereby.

ARTICLE 5.2 "PLANS AND WORKING DRAWINGS." The first sentence of the first paragraph is hereby revised to read as follows:

When required, the Contractor shall provide working drawings to supplement the plans with all necessary details not included on the Contract plans.

ARTICLE 5.5 "COOPERATION OF CONTRACTOR." The following sentence shall be added to the last line of the first paragraph:

The Contractor will be supplied with three (3) copies of the plans, specifications and special provisions and he shall have one (1) copy of each available on the project at all times.

ARTICLE 5.9 "CONSTRUCTION SURVEYING," is hereby deleted in its entirety.

ARTICLE 5.10 "INSPECTION." The sixth sentence of the second paragraph is hereby revised to read as follows:

If the uncovered work is acceptable, the costs to uncover, remove and replace or make good the parts removed will be paid for in accordance with Article 38. "Changes And Alterations" of Section IV, "General Terms And Conditions".

ARTICLE 5.12 "FINAL ACCEPTANCE," is hereby deleted in its entirety. It is replaced by Article 34. "Final Completion And Acceptance" of Section IV, "General Terms And Conditions".

SPECIAL PROVISION TO ITEM 6

CONTROL OF MATERIALS

For this project, Item 6 of the Texas Standard Specifications is hereby amended with respect to the clauses cited below and no other clauses or requirements of this Item are waived or changed hereby.

ARTICLE 6.1.2 "SOURCE CONTROL." Paragraph B. "Buy Texas" is hereby deleted in its entirety.

ARTICLE 6.7 "Department-furnished Material" is hereby deleted in its entirety.

SPECIAL PROVISION TO ITEM 7

LEGAL RELATIONS AND RESPONSIBILITIES

For this project, Item 7 of the Texas Standard Specifications is hereby amended with respect to the clauses cited below and no other clauses or requirements of this Item are waived or changed hereby.

ARTICLE 7.14 "RESTORING SURFACES OPENED BY PERMISSION." The third sentence of the first paragraph is hereby revised to read as follows:

Payment for repair of surfaces opened by permission will be made in accordance with Article 38. "Changes And Alterations" of Section IV, "General Terms And Conditions".

SPECIAL PROVISION TO ITEM 8

PROSECUTION AND PROGRESS

For this project, Item 8 of the Texas Standard Specifications is hereby amended with respect to the clauses cited below and no other clauses or requirements of this Item are waived or changed hereby.

ARTICLE 8.1 "PROSECUTION OF WORK" The first sentence in the first paragraph is hereby revised to read as follows:

"The Contractor shall begin the work to be performed under the contract within ten (10) days after the date of the authorization to begin work as shown on the work order.

ARTICLE 8.5.2 "PROGRESS SCHEDULES", B. "CONSTRUCTION CONTRACTS" The first sentence in the first paragraph is hereby revised to read as follows:

If required by the Engineer, before starting work on a construction Contract, prepare and submit a progress schedule based on the sequence of work and traffic control plan shown in the Contract.

SPECIAL PROVISION TO ITEM 9

MEASUREMENT AND PAYMENT

For this project, Item 9 of the Texas Standard Specifications is hereby amended with respect to the clauses cited below and no other clauses or requirements of this Item are waived or changed hereby.

ARTICLE 9.2 "PLANS QUANTITY MEASUREMENT" is hereby deleted in its entirety and replaced by ARTICLE 37 "ESTIMATED QUANTITIES" of Section IV, "General Terms and Conditions".

ARTICLE 9.7 "PAYMENT FOR EXTRA WORK AND FORCE ACCOUNT METHOD" is hereby revised to read as follows:

Extra work ordered, performed and accepted will be paid for in accordance with ARTICLE 39, "EXTRA WORK" of Section IV, "General Terms and Conditions".

ARTICLE 9.5 "PROGRESS PAYMENTS" is hereby deleted in its entirety and replaced by ARTICLE 36, "PROGRESS PAYMENTS AND RETAINAGE" of Section IV, "General Terms and Conditions".

ARTICLE 9.10 "FINAL PAYMENT" is hereby deleted in its entirety and replaced by ARTICLE 34, "FINAL COMPLETION AND ACCEPTANCE" and ARTICLE 40, "FINAL PAYMENT" of Section IV, "General Terms and Conditions".

SPECIAL PROVISION TO ITEM 110

EXCAVATION

For this project, Item 110 of the Texas Standard Specifications is hereby amended with respect to the clauses cited below and no other clauses or requirements of this Item are waived or changed hereby.

ARTICLE 110.3 "Measurement." The second paragraph is hereby deleted in its entirety and replaced by the following:

The quantity shown in the Proposal is an estimated quantity based on both a pre-Hurricane Ike survey and a post-Hurricane Ike survey. The entire project was surveyed pre-Hurricane Ike. After Hurricane Ike, new bathymetric survey was obtained only. Quantities shown in the Proposal related to surface improvements are estimated quantities based on the pre-Hurricane Ike survey. Quantities shown in the Proposal related to sub-surface improvements are estimated quantities based on the post-Hurricane Ike survey. The final quantity will be computed based on pre and post construction surveys.

SPECIAL PROVISION TO ITEM 247

FLEXIBLE BASE

For this project, Item 247 of the Texas Standard Specifications is hereby amended with respect to the clauses cited below and no other clauses or requirements of this Item are waived or changed hereby.

ARTICLE 247.5 "Measurement." The first paragraph after the bulleted section is hereby deleted in its entirety. The second sentence in Subparagraph D is hereby deleted in its entirety.

ARTICLE 247.6 "Payment." The second sentence in the first paragraph is hereby revised to read as follows:

No additional payment will be made for thickness exceeding that shown on the typical section or provided on the plans for cubic yard in the final position or square yard measurement.

SPECIAL PROVISION TO ITEM 491

TIMBER FOR STRUCTURES

For this project, Item 491 of the Texas Standard Specifications is hereby amended with respect to the clauses cited below and no other clauses or requirements of this Item are waived or changed hereby.

ARTICLES 491.5 "Measurement" and 491.6 "Payment." These paragraphs are hereby deleted in their entirety and replaced by the following:

491.5. Measurement and Payment. This Item will be measured by the lump sum. The work performed and materials furnished in accordance with this Item will be paid for at the lump sum price bid for the timber structure being constructed. This price is full compensation for installation, materials, equipment, labor, tools, and incidentals.

SPECIAL PROVISION TO ITEM 506

TEMPORARY EROSION, SEDIMENTATION, AND ENVIRONMENTAL CONTROLS

For this project, Item 506 is hereby amended with respect to the clauses cited below and no other clauses or requirements of this Item are waived or changed hereby.

ARTICLES 5.6 "Measurement" and 6.8 "Payment". Both paragraphs are hereby deleted in their entirety and replaced by the following:

6.11. Measurement and Payment. No separate measurement or payment will be made for filter fabric as part of the work. Include cost of same in Contract price bid for work of which filter fabric is a component part.

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SPECIAL ITEM 15001

PREFABRICATED METAL BRIDGES

PART 1 - GENERAL

1.01 SUMMARY

This section includes materials and installation of fully engineered clear span prefabricated metal bridges.

1.02 RELATED REQUIREMENTS

- A. Steel Structures: 441
- B. Metal for Structures: 442
- C. Galvanizing: 445
- D. Structural Bolting: 447
- E. Structural Field Welding: 448
- F. Anchor Bolts: 449

1.03 SUBMITTALS

- A. Submit shop drawings in accordance with the General Conditions.
- B. Submit manufacturer's catalog data describing the bridge construction and components. Submit design and erection drawings; shop painting and finishing specifications; instruction manuals; and other data to describe the design, materials, sizes, layouts, construction details, fasteners, and erection.
- C. For metal bridge design, submit engineering design calculations for structural components, bracing, equipment supports, and anchor bolts. Design calculations shall be signed by a civil or structural engineer registered in the state of Texas.
- D. Submit certificate that the design meets the applicable local and regional building codes.
- E. Submit erection drawings and diagrams. Show base anchor details and anchor bolt sizes. Show girder and/or truss bracing.
- F. Manufacturer's Schematic Drawings Diagrams: Shop drawings shall be unique drawings, prepared to illustrate the specific portion of the work to be done. Manufacturer's standard forms requiring only filling in of blank spaces

shall not be acceptable unless all nonapplicable information is deleted and such standard forms are modified to reflect exact requirements and conditions unique to the project. All relative design information such as member sizes, reactions, and general notes shall be clearly specified in the drawings. Shop drawings shall be accurately prepared by skilled draftsmen to be complete in every respect. Drawings shall have cross-referenced details and sheet numbers. All drawings shall be signed and sealed by a registered professional engineer, registered in the state of Texas.

1.04 GUARANTEE

Bridges shall be guaranteed against detrimental weathering or structural defects caused by ordinary wear and tear by the elements for a period of five years. Such guarantee is in addition to the guarantee required in the General Conditions and shall start upon final acceptance of the work by the Owner.

PART 2 - MATERIALS

2.01 MANUFACTURERS

Prefabricated metal bridges shall be manufactured by Contech Engineered Solutions LLC, or approved other.

2.02 DESIGN CRITERIA

- A. The bike path bridge shall be of the size and shape shown, complete with all accessories. Determine anchor bolt layouts before placing concrete footings, walls, or slabs to support the bridge.
- B. The design of the bridge and components shall be in accordance with American Association of State Highway and Transportation Officials (AASHTO).
- C. Span and Width:
 - 1. Bridge shall have spans as shown on the drawings.
 - 2. Bridge inside deck width shall be 10 feet 2 inches.
- D. Geometry:
 - 1. Half through (pony truss) utilizing an "H" section design where the floor system is raised above the truss bottom chord.
 - 2. One diagonal per panel. Chords, diagonals, verticals, and stringers to be of tube steel. Floor beams to be wide flange material that bolts in place in the field.

- E. Camber: Bridge camber at center of bridge span shall be for dead load camber only.
- F. Structural Materials:
1. All fabrications shall be fabricated using ASTM A500 Grade C cold-formed welded square and rectangular tubing ($F_y = 50,000$ psi) and/or ASTM A588, ASTM A242, ASTM A572, ASTM A606 ($F_y = 50,000$ psi) and/or ASTM A36 ($F_y = 36,000$ psi) plate and/or structural steel shapes ASTM A992. Splice plates, if required, shall be ASTM A588.
 2. Field splices shall be fully bolted with ASTM A 325 Type 3 high strength bolts in accordance with "Specifications for Structural Joints Using ASTM A 325 or A 490 Bolts."
 3. Decking: Bridge shall be provided with a concrete 10-foot 2-inch walkway. Walkway shall have toe plates or channels on each side of the decking.
- G. Design all bridges for the dead load, specified live load, and the combinations of these loads as set forth in the AASHTO publication. Reduction of loads due to tributary loaded area is permitted. Include the following loads in addition to the dead load:
1. Live load and wind load as required by AASHTO, as modified by the drawings.
 2. Weights of all equipment supported by the structure.
- H. Design Loads:
1. Uniform Live Load:
 - a. Main supporting members (girders, trusses, and arches) shall be designed for a pedestrian live load of 100 psf of bridge walkway area.
 - b. Secondary Members: Bridge decks and supporting floor systems, including secondary stringers, floor beams, and their connections to main supporting members shall be designed for a live load of 100 psf, with no reduction allowed.
 2. Wind Load:
 - a. The bridge(s) shall be designed for a wind load of 130 mph, 3 sec gust on the full vertical projected area of the bridge as if enclosed. The wind load shall be applied horizontally at right angles to the longitudinal axis of the structure.

3. Top Chord Stability:

- a. The top chord of a half-through truss 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) in any panel of the top chord by not less than 50% for parallel chord truss bridges or 100% for tied arch 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.
 - b. For uniformly loaded bridges, the vertical truss members, the floor beams, and their connections (transverse frames) in half-through truss spans shall be proportioned to resist a lateral force of not less than $1/100k$ times the top chord compressive load, but not less than 0.004 times that top chord load, applied at the top chord panel points of each truss.
 - c. 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.
 - d. NOTE: The effects of three-dimensional loading (including "U-frame" requirements) shall be considered in the design of the structure. The "U-frame" forces in half-through spans shall be added to the forces derived from a three-dimensional analysis of the bridge.
- K. Design structural steel members in accordance with the "Manual of Steel Construction: Allowable Stress Design" as adopted by the American Institute of Steel Construction (AISC), latest edition. Design structural cold formed steel framing members in accordance with AISI publication, "Specification for the Design of Cold-Formed Steel Structural Members."
- L. Welded tubular structural design shall be in accordance with the Structural Welding Code (ANSI/AWS D1.1), Chapter 10, "Tubular Structures."

2.03 BRACING

Provide erection bracing and layout. Base size of bracing upon a wind load as specified hereinbefore. Provide flange bracing.

2.04 ASSEMBLY AND DISASSEMBLY

The size of the prefabricated components and the field connections required for erection shall permit efficient assembly and disassembly. The maximum size of any shop-assembled component of the bridge shall permit transportation from factory to site by commercial carrier. Fabricate components in such a manner that once assembled, they may be disassembled, repackaged, and reassembled with a minimum amount of labor and maximum salvageability. Clearly and legibly mark each and every piece and part of the assembly to correspond with previously prepared erection drawings, diagrams, and/or instruction manuals.

2.05 FINISHING

All structural steel, after fabrication, will be blast cleaned in accordance with SSPC SP-10 commercial blast cleaning, latest edition.

2.06 GALVANIZING

All bridge components shall be galvanized as per Item 445.

PART 3 - EXECUTION

3.01 STORAGE AND PROTECTION

Deliver, store, handle, and erect prefabricated components, sheets, panels, and other manufactured items such that they will not be damaged or deformed. Stock materials stored on the site before erection on platforms or pallets and cover with tarpaulins or other weatherproof covering. Store metal sheets, panels, or frames so that water accumulated during transit or storage will drain off. Do not store components in contact with materials that may cause staining. Upon arrival on the jobsite, remove moisture on sheets and panels, restack, and protect until used.

3.02 FABRICATION

- A. Workmanship, fabrication, and shop connections shall be in accordance with AASHTO specifications.
- B. Welding operators shall be properly accredited, experienced operators, each of whom shall submit satisfactory evidence of experience and skill in welding structural steel with the kind of welding to be used in the work and who has demonstrated the ability to make uniform good welds of the type required.

3.03 ERECTION

- A. Delivery and Erection:
 - 1. Delivery of the bridge shall be made to a location nearest the site which is accessible to over-the-road trucks.

2. The Contractor will be responsible for unloading the bridges and towers from the truck at the time of arrival. Bridge Manufacturer will notify the Contractor in advance of the expected time of arrival at the site.
 3. The manufacturer or his representative will instruct the Contractor or his representative in the proper lifting procedure for the unloading of the bridge. Care must be taken to prevent damage to the finish of the bridge.
 4. The unloading, splicing (if required), and placement of the bridge will be the responsibility of the Contractor. The procedure for bolting field splices will be given to the Contractor by the manufacturer.
- B. Erect in accordance with the manufacturer's erection instructions and drawings and the requirements herein. Insulate incompatible dissimilar materials which are in contact by means of gaskets or insulating compounds. Keep exposed surfaces clean and free from sealant, metal cuttings, and other foreign materials.
- C. Accurately set anchor bolts by template while the concrete is in a plastic state. Provide uniform bearing under baseplates and sill members using a nonshrinking grouting mortar. Accurately space members to assure proper fitting of covering. As erection progresses, securely fasten the work and brace to resist vertical loads and horizontal wind loads.

3.04 FOUNDATIONS

- A. Engineering design and construction of the supporting foundations (abutment, pier, or footing) will be the responsibility of the Owner.
- B. Information as to bridge support reactions and anchor bolt location and placement will be furnished by Bridge Manufacturer.

3.05 FIELD TOUCH UP

Repair galvanized surfaces as stated in Item 445 using Zinc-based solder or sprayed Zinc (metallizing).

END OF SECTION

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SPECIAL ITEM 16050
ELECTRICAL CONSTRUCTION

PART 1 GENERAL

1.01 SUMMARY

Provide all materials, equipment, supplies, supervision, tools, labor, and all other appurtenances required to install, test, adjust, and place in operation the electrical system as shown on PLANS and specified herein. CONTRACTOR to furnish all component pieces, wiring, piping, and accessories necessary for a complete and workable system placed in operation.

1.02 RELATED REQUIREMENTS

- A. PLANS and other Technical Specification Sections show and/or specify those features required to describe and illustrate functional requirements of the electrical system.
- B. Work Shown on PLANS
 - 1. The locations of electrical equipment shown on the PLANS are approximate only and are to be located exactly as necessary to fit the location of the equipment and not conflict with the installation of construction of the other trades.
 - 2. Wire sizes are based on the loads indicated on the One-Line Diagrams and panel schedules as reflected by relevant Sections of Technical Specification Sections. Final wire sizes to be in accordance with the latest edition of the National Electrical Code (NEC), based on the requirements of the equipment actually furnished.
 - 3. All relocation of electrical equipment and changes in wire and conduit sizes to be at no additional cost to the OWNER.

1.03 - 1.04 (NOT USED)

1.05 SYSTEM DESCRIPTION

- A. Manufacturers
 - 1. Furnish products of manufacturers specified in PART 2 of this Section. All products to be approved in writing prior to installation.
 - 2. The products as described herein are applicable when required by the PLANS and/or other Technical Specification Sections and are included

to complement the electrical characteristics, ratings, and/or modifications as shown on PLANS.

3. All products of a given type to be furnished by a single manufacturer.
4. Material to bear Underwriters' Laboratory label if available for applicable product.
5. All products as described as follows to provide satisfactory operation and to require minimal maintenance under the following environmental conditions.
 - a. Non-weatherproof Products/Controlled Environment: Indoors protected from corrosive atmosphere and elements of the weather.
 - 1) Temperature: 60°F to 100°F.
 - 2) Relative Humidity: 95 percent.
 - b. Weatherproof Products/Noncontrolled Environment: Outdoors and indoors subjected to corrosive atmosphere or elements of the weather.
 - 1) Temperature: 10°F to 120°F.
 - 2) Relative Humidity: 100 percent.
6. Minimum interrupting ratings of the products to be at least equal to the available RMS symmetrical short-circuit current at the line terminals of the product, when applicable.

B. Construction

Comply with all National Electrical Code (NEC) requirements, local ordinances, and all other pertinent codes and standards.

1.06 SUBMITTALS

Furnish the following in accordance with Specification Section 01300 SUBMITTALS and as further required hereinafter.

- A. Submitted literature to be marked in ink to show the paragraph in the Technical Specification Section(s) for which the material applies.
- B. Summary Sheet: List any and all deviations in dimensions, capacities, or ratings from the dimensions, capacities, or ratings as shown on PLANS or in Technical Specification Section(s).

- C. Tabulated Data: Furnish tabulated data for all required products that are described in PART 2 of this Section.
- D. Catalog Data: Furnish catalog data cut sheets for all required products that are described in PART 2 of this Section, including highlighted indication of the following information when applicable for each submitted product.
 - 1. Manufacturer's product name and model number.
 - 2. Tag number identical to the one designated on PLANS.
 - 3. Functional name.
 - 4. Features.
 - 5. Options.
 - 6. Dimensions.
 - 7. Description of construction, including enclosure rating.
 - 8. Service requirements (e.g., power, water, etc.)
 - 9. Short-circuit current rating.
- E. Control Schematics and Instrumentation Diagrams: Furnish control schematics and instrumentation diagrams, when required, made from reproductions of the control schematics shown on PLANS with modifications as required but not redrawn in another format.

1.07 QUALITY ASSURANCE (NOT USED)

1.08 DELIVERY, STORAGE, AND HANDLING

- A. Maintain materials and equipment in new condition, including the use of heat lamps and suitable coverings to prevent accumulation of excess condensation and construction dirt.
- B. Protect materials and equipment from the weather, moisture, impact, corrosive liquids, gases, dust, and other agents that could cause damage.

1.09 PROJECT/SITE CONDITIONS (NOT USED)

1.10 SEQUENCING

- A. Conform to the construction schedule and progress of the other trades.
- B. Set all electrical apparatus in place whether supplied herein or under other Technical Specification Sections. Connect, test, service, and place equipment in operation.

1.11 SCHEDULING

A. Electrical and Telephone Service

The CONTRACTOR to contact, arrange for, and schedule initial service from the utility companies, as required. Any and all charges required by these utility companies for permanent service will be paid by the OWNER.

PART 2 - PRODUCTS

2.01 MANUFACTURER(S)

Manufacturer(s) to be as specified herein or as identified within other Specification Sections.

2.02 MATERIALS AND/OR EQUIPMENT

A. Conduit and Appurtenances

1. Rigid Steel Conduit

- a. UL-listed, mild steel hot-dipped galvanized inside and outside with hot-dipped galvanized threads in accordance with the latest editions of ANSI C80.1, UL6, Federal Specification WW-C-581E, and UL General Information Card #DYIX.

2. Rigid Aluminum Conduit

- a. UL-listed, No. 6063 aluminum alloy with T-1 temper designation in accordance with applicable standards as stated in paragraph 2.02 A.1.a. and including the latest edition of ANSI C80.5.

3. Rigid Polyvinyl Chloride (PVC) Conduit

- a. UL-listed, type 40, heavy wall PVC with 90°C wire rating suitable for direct sunlight applications in accordance with the latest editions of UL651 and NEMA TC-2.
- b. UL-listed, schedule 80, extra-heavy wall PVC with 90°C wire rating suitable for direct sunlight applications in accordance with the standards as listed in paragraph 2.02 A.3.a.

4. PVC-Coated Rigid Steel Conduit

- a. UL-listed, hot-dipped galvanized mild steel inside and outside with hot-dipped galvanized threads in accordance with the standards as stated in paragraph 2.02 A.1.a. Conduit to also include a PVC outer coating with minimal thickness of 40 mils and a phenolic inner coating with minimal thickness of 4 mils.

Coated conduit to comply with all requirements of the latest edition of NEMA RN-1.

- b. Manufacturer to be Ocal, Inc., Perma-Cote Industries, or Robroy Industries.

5. Flexible Metallic Conduit

- a. UL-listed, hot-dipped galvanized steel core with thermoplastic cover in accordance with the latest edition of UL360. Conduit also to be liquid tight and oil resistant.
- b. Manufacturer and type to be Anaconda Company-Sealtite Type U.A., Electri-Flex Company-Liquatite Type L.A., or equal.

6. Conduit Fitting

- a. Material of construction of fitting to be similar to the conduit it is used in conjunction with and to conform to the applicable standards of the conduit. Fitting also to be in accordance with the latest edition of UL514.
- b. Manufacturer to be Crouse-Hinds, Appleton, or equal.

B. Conductor, Cable, and Appurtenances

- 1. Conductor to be soft annealed bare copper per ASTM B3, Class B strand per ASTM B8. Size 12 AWG and 10 AWG for power circuits to be solid above ground; all other wire including all control wire to be stranded.

2. Power and Control Cable

- a. Above Ground: UL-listed Type THW or Type THWN rated for 600 volts AC and 75°C minimum. Insulation to be PVC. Conductors and insulation to be in accordance with the latest edition of UL83. Type THWN to have abrasion-resistant nylon jacket over insulation.
- b. Below Ground. UL-listed Type XHHW-1 rated for 600 volts AC and 90°C dry and 75°C wet. Insulation to be cross-linked thermosetting polyethylene. Conductors and insulation to be in accordance with UL44 NEMA WC-7, ICEA-S-66-524.
- c. Manufacturer to be Cablec, Okonite, Pirelli, Phelps Dodge, Triangle, Rome, or Kerite.

3. Shielded Instrumentation Cable

- a. UL-listed Type VW-1 rated for 300 volts DC and 60°C minimum. Insulation to be polyethylene with aluminum polyester, 100 percent shield coverage, and chrome PVC jacket. Conductors to be twisted, stranded, tinned copper with stranded tinned copper drain wire.
 - b. Manufacturer and catalog numbers to be Belden #8760 or #8770 as required, Eaton-Dekoron #1852 or #1862 as required, or equal.
4. Wire Connector
- a. UL-listed with fire-resistant, flame-retardant, thermoplastic shell in accordance with latest edition of Federal Specification W-S-610c.
 - b. Manufacturer and type to be 3M Company Type Scotchlock, Ideal Industrial Inc. Type Wire-Nut, or equal.
5. All-Purpose Electrical Tape
- a. UL-listed, flame-retardant, weather-resistant vinyl plastic construction in accordance with latest editions of UL510 and either Federal Specification HHI-595b or Federal Specification HHI-595c.
 - b. Manufacturer, type, and model number to be 3M Company Type Scotch #33+, Plymouth Rubber Company Inc. Type Premium Black #4453, or equal.
6. Fire and Electric Arc-Proofing Tape
- a. Flexible, conformable, unsupported intumescent elastomer with self-extinguishing characteristics in accordance with UL94.
 - b. Manufacturer, type, and model number to be 3M Company Type Scotch #77, Plymouth Rubber Company Inc. Type Slipknot #30, or equal.
7. Conductor Splice
- a. Material properties, heat-shrink, cross-link polyolefin wrap-around sleeve affixed with positive mechanical closure with raised rail and water-tight seal. Include compression connector.
 - b. Manufacturer, type, and model number to be Ray-Chem CRSM and CRSM-CT, or equal.

C. Lighting Contactor

1. Contactor is to have a minimum of four (4) normally open 30A rated contacts.
2. Contactor is to have an electrically held 120V coil.
3. Contactor is to have a NEMA 4X enclosure.
4. Contactor is to have factory installed "Hand-Off-Auto" selector switch.

D. Photocell

1. 120V working voltage with 15A rated contact.
2. ½" stem mount with gasket and locknut
3. Adjustable light level slide.
4. Intermatic #K4121C or approved equal

E. Receptacle and Appurtenances

1. Receptacle
 - a. UL-listed, duplex ground fault circuit interrupting type with ivory face rated 125 volts AC, 20 amps continuous.
 - b. Manufacturer and catalog number to be Hubbel #GF20ALL or equal.
2. Cover Plate: Type, manufacturer, and catalog number to be as follows.
 - a. Non-weatherproof ivory thermoplastic type to be manufactured by receptacle manufacturer with compatible catalog number as required.
 - b. Non-weatherproof steel type to be Crouse-Hinds #DS23, Appleton #FSK-1DR, or equal.
 - c. Weatherproof UV-Stabilized polycarbonate type to be Intermatic WP1000 series, or equal.

F. Lighting Panel

1. UL-listed and in accordance with the latest edition of Federal Specification WP-115A, Type 1, Class 1. Panel to include a UL service entrance label when required.

2. System voltage rating to be 120/240 volts AC or 480/277 volts AC as shown on PLANS. Minimum integrated rating of 240 volts AC rated panel to be 10,000 RMS symmetrical amps, and minimum integrated rating of 480/277 volts AC rated panel to be 14,000 RMS symmetrical amps unless shown otherwise on PLANS.
3. Buses to be silver plated copper. Minimum size of buses and breaker frames to be 100 amps unless shown otherwise on PLANS.
4. Transformer-fed panels to have main breaker to match system. Breakers to be plug-in type in accordance with the latest edition of Federal Specification W-C-375b.
5. Enclosure to be NEMA 1 for controlled environment and NEMA 3R for noncontrolled environment unless shown otherwise on PLANS.
6. Rating, manufacturer, and type to be as follows.
 - a. 240 volts AC to be Square D Type NQO or equal by General Electric, Siemens, or Cutler-Hammer.
 - b. 480/277 volts AC to be Square D Type NEHB or equal by General Electric, Siemens, or Cutler-Hammer.

G. Molded Case Circuit Breaker

1. UL-listed, thermal magnetic type in accordance with latest editions of NEMA AB1 and Federal Specification W-C-375B.
2. Breaker to include the following features.
 - a. Toggle type handle with quick-make, quick-break, over-center switching mechanism.
 - b. Handle position trip indication.
 - c. Inverse time delay and instantaneous circuit protection to be provided by each pole.
 - d. Common trip for two-pole and three-pole types.
 - e. 100 amp frame size minimum.
 - f. Single adjustment variable magnetic trip elements for frame sizes greater than 100 amps.
 - g. Enclosures, when required, to be as specified in paragraph 2.02 J.2.

3. Manufacturer to be Cutler-Hammer, General Electric, Square D, or Siemens.

H. Lighting Fixtures

1. General: Provide lighting fixtures, of the size, type, and rating indicated on PLANS, complete with, but not necessarily limited to, lamps, lampholders, reflectors, ballasts, support hardware, and wiring.
2. Ballasts - Fluorescent: Provide ballasts with high-power factor, rapid start, class "P," low noise with "A" sound rating, thermally protected, encased and potted. Ballasts to have 0°F temperature rating.
3. Ballasts – High-Intensity Discharge (HID): Provide HID ballasts with high-power factor, "B" sound rating. Ballasts to have 0°F temperature rating.

I. Over voltage Surge Protection

1. Lightning or Surge Arrester
 - a. 260 volt minimum rated unit in accordance with the latest edition of ANSI C62.2.
 - b. Weatherproof enclosure with corrosion resistant mounting bracket and hardware required for installation as shown on PLANS.
 - c. Manufacturer, type, and catalog number to be General Electric Tranquil Series #9LI5°C or equal by Culter-Hammer or Square D.

J. Electrical Enclosure

1. Free standing 4X enclosure with water and dust tight gasket.
2. 24"x36"x90". Single door along 36" side with continuous hinge, three point latching mechanism, and pad lockable handle.
3. 12 gauge Type 304 stainless steel with welded horizontal interior mounting rails and top mounted heavy duty lifting eyes.
4. Hoffman # A903624SSFSN4 or approved equal.

PART 3 - EXECUTION

3.01 General

- A. Install all equipment and materials in accordance with the recommendations of each equipment manufacturer.
- B. Use only persons skilled in type of work required by PLANS, and Technical Specification Sections.

3.02 PREPARATION (NOT USED)

3.03 ERECTION/INSTALLATION/APPLICATION AND/OR CONSTRUCTION

A. General

- 1. Install all conduits concealed where possible, unless indicated otherwise on the PLANS. All conduits underground to be encased in concrete.
- 2. Level and plumb all equipment. All junction boxes, equipment enclosures, raceways, etc. mounted on water-bearing or earth-bearing walls or other surfaces to be separated from the surface not less than ¼-inch by corrosion-resistant spacers.
- 3. Install pipe caps for conduits marked "spare" and capped bushings for conduits marked "telephone." Leave a nylon pull wire (200# tensile strength) in each spare conduit. Allow 12 inches minimum of slack at each end.
- 4. Identification
 - a. Provide 3-ply black-white-black phenolic nameplates with 3/8-inch-high lettering which properly identifies all electrical equipment and devices such as disconnect switches, control stations, panelboards, etc., as to what they are and the load with which they are associated. Attach nameplates to the equipment with brass screws where possible. Locate adjacent to the equipment if it is not possible to attach to it.
 - b. Provide polyethylene or polyvinyl chloride identification tags which properly identifies all equipment and devices mounted inside all control centers and panels. Manufacturer and type to be Almetek Type Mini-Tags or equal.
 - c. Proper identification of equipment and devices to include tag numbers as shown on PLANS, and/or in Technical Specification Sections.

B. Rigid Steel Conduit - Above Ground - Indoors - Dry Locations

1. Installation practices to be in accordance with AISI Design Manual "Steel Electrical Raceways" and the NEC.
2. Exposed Conduits
 - a. Install conduits parallel or perpendicular to walls, structural members, and ceilings.
 - b. Install groups of conduits on Unistrut P-1000 supports or equal. Surface mount on structural members.
 - c. Two or more conduits in the same direction must have symmetrical bends for changes in direction. Use fittings to make changes in direction for conduits larger than 1-inch.
 - d. Support conduits with screw clamp backs, U-bolts, parallel or right angle conduit clamps, as applicable.
 - e. Use locknuts inside and outside of an enclosure and insulating bushings by O-Z/Gedney or equal to connect conduits.
 - f. Cap all conduits during construction.
 - g. Install insulating type grounding bushings equal to O-Z/Gedney Type BLG at the conduit entrance to all electrical equipment such as transformers, motor control centers, and control panels.
 - h. Install conduits to avoid moisture traps. Provide a "T" fitting at the bottom of long vertical conduit runs. Install a Crouse-Hinds ECD or equal drain in the bottom openings of the fitting.
 - i. Install conduit system complete with outlet boxes and fittings before pulling in wiring.
 - j. Support conduits in accordance with the NEC, between couplings, on either side of bends, at terminations, and fittings.
 - k. Use liquid tight flexible conduit in lengths of 24 to 36 inches to connect to motors, solenoid valves, and any equipment subject to vibration.

C. Rigid Aluminum Conduit - Above Ground - Exposed Outdoors, Wet or Damp Locations

1. Install per paragraph 3.02 B.

2. Conduits in damp locations to be installed so that they are exposed to air circulation on all sides.
3. Use Myers Scru-Tite hubs or equal at all conduit entries to sheet metal enclosures outdoors.

D. Conduits - In Concrete Construction

1. Use rigid steel except where concrete is in contact with water or earth, Schedule 40 PVC to be used in these conditions.
2. Install an O-Z/Gedney Type DX or equal watertight expansion fitting where conduit crosses expansion joints.
3. Install conduit in the middle one-third of the slab or wall thickness.
4. Do not install conduits in slabs or walls if their outside diameter exceeds one-third of the thickness of the slab or wall.
5. Provide 1-½ inches separation between conduits except at panelboard and motor control center locations where conduits have to be grouped.
6. Install conduits at entrance to or exit from concrete construction so that curved portions are not visible externally.
7. Terminate conduits designated for future use with flush conduit coupling and Crouse-Hinds PLG plug or equal. Adjust pipe plug so that it is flush with the finished surface.
8. Sleeves through footings for exterior runs to be O-Z/ Gedney Type FSK or WSK as required or equal by 3M Company or G&W Electric Company.
9. Provide PVC coated rigid steel long radius fittings for all elbows greater than 45 degrees.

E. Conduits - Below Ground

1. PVC Schedule 80
 - a. Install for individual runs and for grouped conduits.
 - d. Grade conduits to pull boxes.
 - e. Draw cleaning mandrel and rag through conduits before installing conductors.
 - f. Transition to be of same material as above ground conduit when connecting to below ground conduit indoors. PVC-coated rigid steel coupling with approved adaptor to be used when

transitioning from below ground conduit to above ground conduit outdoors.

- g. Provide PVC coated rigid steel long radius fittings for bends 45 degrees and larger. For bends less than 45 degrees, make bends with an approved hot box bender.
- h. Install in accordance with the conduit manufacturer's recommendations. Use solvent weld cement sparingly. Do not use the clear-type fast-drying cement.
- i. Install markers at the beginning and end of each run, every 100 feet in straight runs, and at all direction changes. Use 12-inches square by 6-inches deep Class C minimum concrete with "ELEC." cast in the concrete. Set top of concrete 1-inch above finished grade. Letters to be 2 inches wide and 3 inches high with ½-inch spacing between letters. Top edge of marker to have 1-inch chamfer at 45E.

F. Plastic Conduit - Above Ground: Where specifically shown on PLANS, use PVC Schedule 80 heavy wall conduit installed in accordance with manufacturer's recommendations and with a continuous grounding wire.

G. Wire and Cable

- 1. Size: Not smaller than 12 AWG, except control wire to be minimum 14 AWG stranded.
- 2. Color Coding: Provide color coding as follows unless otherwise specified by local ordinances:
 - a. Single phase, 120/240 volts - Red (L1), Black (L2), White (N).
 - b. Three phase 120/240 volts - Black (Phase A), Orange (Phase B) Blue (Phase C), Gray (Neutral)
 - c. Three phase, 120/208 volts - Black (Phase A), Red (Phase B), Blue (Phase C), White (Neutral).
 - d. Three phase, 480/277 volts - Brown (Phase A), Purple (Phase B), Yellow (Phase C), Gray (Neutral).
 - e. Control conductors - red.
 - f. Ground wire - green.
- 3. Where factory color-coded wire is not available, a 1-inch band of colored Scotch tape or equal may be used near the ends of each

conductor. Conductors smaller than No. 8 are not to be taped for color-code.

4. Use Polywater J lubricant to pull all wires.
5. Make all splices and terminations in boxes and only where shown on PLANS. Size per boxes NEC.
6. Use compression type lug connectors on all motor connections and at other equipment subject to vibration.
7. Use compression type connectors on all other connections involving conductors 6 AWG and larger.
8. Use spring lock connectors where compression type are not specified.
9. Do not install more than two 120/240 volt circuits or one 480 volt circuit in one conduit unless indicated otherwise on PLANS.
10. Remove all burrs and swab conduits clean before pulling in wiring.
11. Do not exceed maximum pulling tension or sidewall pressure when installing cable.
12. Terminate stranded wiring by use of lugs or pressure type connectors. Do not terminate stranded wiring by wrapping stranded wire around terminals.
13. Ground shielded cable only at one point, i.e., at the panel, if possible or as recommended by manufacturer of device which shielded cable is connected to. Shields to be continuous throughout the length of the wiring run.
14. Mark all instrumentation and control wiring at each end of a run. Use Brady or approved equal adhesive wire markers.
15. Use cable tags to tag all main and feeder cables in all pull boxes, wireways, wire gutters, panels, and motor control centers. Identify wire or cable number and equipment served.
16. Leave sufficient length on all spare cables and wires to make a connection anywhere within an enclosure. Terminate with insulating tape and tag with a cable tag.

H. Junction and Pull Boxes

1. Install where shown on the PLANS and elsewhere as required to facilitate installation of the wiring system.

2. Plug all unused openings with suitable conduit plug equal to Crouse-Hinds Type PLG.
3. Install in concrete so that the front edge will not set back of the finished surface more than ¼-inch.
4. Provide adequate supports.
5. Install so that covers are accessible for easy removal.
6. Provide enclosures rated for NEMA 4 with breather and drain for outdoor installations.

I. Light Switches and Receptacles

1. Install at the approximate locations shown on PLANS.
2. Light switch mounting height to be 4 feet, 6 inches above finished floor unless otherwise noted.
3. Receptacle mounting height to be 18 inches above finished floor in office and laboratory areas, 8 inches above all counters, 4 feet, 6 inches in all other places unless special mounting height is required by equipment being served or unless otherwise noted.

J. Panelboards

1. Surface mounted as indicated on PLANS.
2. Provide spare conduits stubbed out for future use, as indicated on PLANS.
3. Mount to have top breaker AT 6 feet, 6 inches above finished floor.
4. Type in all circuits on the panel directory card immediately prior to job completion.

K. Grounding

1. Furnish a grounding system as required by the NEC and as further described herein.
2. Ground all electrical equipment, lights, receptacles, etc., with a separate equipment ground wire or a continuous metallic raceway system. Provide a ground conductor for all non-metallic and metallic raceways.
3. Install grounding system electrically and mechanically continuous throughout. Do not bond to the system neutral except at the service entrance.

4. Ground transformer neutrals to their housing, and bond the housing to the equipment grounding conductor.
5. Connect equipment grounding conductors to ground bars or buses provided at panelboards, motor control centers, disconnect switches, switchgear, etc., from which the equipment is served. Install a bonding jumper from the grounding lug on each conduit to the ground bar or bus.
6. Where the equipment has no facility to attach an equipment ground wire, use a Burndy Quicklug or equal. Clean the metal surface under the lug to bright metal so that good contact can be made.
7. Connect equipment grounds to motors using a grounding stud threaded into the stationary frame of the motor in the motor junction box.
8. Make ground connections to equipment by using ground lugs or ground bars where they are provided. Do not make connections to equipment anchor bolts.
9. Use a fusion process, Burndy Thermoweld, Cadweld, or equal, to make connections to ground rods and at any joint or connection which will be inaccessible after construction.
11. Use ground clamps where grounding bushings are not specified. Use copper clamps on copper, brass, or lead pipe. Use galvanized iron on galvanized or iron pipe.
12. Furnish bonding jumpers as shown or as otherwise required by the NEC. Use stranded copper wire.
13. Coat fusion-welded connections with coal tar pitch.
14. Provide a PVC sleeve where ground wire passes through concrete slab.
15. Install sufficient ground rods and wiring so the resistance between metal equipment or structural members and ground is 5 ohms or less.
16. Exposed grounding conductors to be insulated.
17. Connect ground wires entering outlet boxes in such a manner that removal of the receptacle will not interrupt the continuity of the grounding circuit.
18. Connect each motor control center ground bus to the grounding system in at least two locations.

19. Grounding conductor to be same size as phase conductor if required by local code in any part of circuit routed in nonmetallic conduit.
20. Grounding Electrode System (GES) to be provided in compliance with NEC Articles 250-81 and 250-83 and in accordance with the following.
 - a. Metal underground water pipe, metal building frame, concrete-encased electrode, and ground ring to be utilized when available per NEC Article 250-81.
 - b. In addition to items previously listed, a ¾-inch-diameter copper-clad ground rod with 10-foot minimum length to be installed as part of GES per NEC Article 250-83.

3.04 - 3.05 (NOT USED)

3.06 ADJUSTING

- A. General: Provide all equipment and labor required for calibration, setting, and testing as described herein or otherwise required. All tests to be witnessed by the OWNER and ENGINEER. Give written notification of the tests at least 7 days prior. Repair or replace all defective material, equipment, or workmanship disclosed as a result of these tests at no cost to the OWNER.
- B. Records: Provide the OWNER with a written record of all tests, including the piece of equipment tested, the date tested, weather conditions, test values, and results.
- C. Megger Tests
 1. Use a minimum 500-volt megohmmeter.
 2. Take each reading for at least one minute.
 3. Include the following tests:
 - a. 115-volt and 230-volt motors: 5.0 megohms.
 - b. 460-volt motors: 7.0 megohms.
 - c. 480-volt transformer windings: 100.0 megohms.
 - d. 600-volt wiring up to 1,000 ft.: 25.0 megohms.
 4. Test all transformer windings as follows:
 - a. Primary to ground.
 - b. Secondary to ground.

c. Primary to secondary.

D. Ground Testing

1. Take ground resistance measurements in normally dry weather, not less than 48 hours after rainfall, with the ground under test isolated from other grounds.
2. Measure the resistance of each ground rod. Submit in writing to the OWNER a record indicating the rod location, the resistance measures, and the soil condition at the time.
3. Take ground resistance measurements on the building water service when used as a ground.
4. Install additional grounding if the resistance to ground measures more than 5 ohms at any location.

E. Motors

1. Megger test motors per paragraph 3.06 C.
2. Dry out any wet insulation by use of space heaters or other approved methods.
3. Check coupling alignment, shaft end play, lubrication, and other mechanical checks as required. Follow manufacturer's instructions.
4. Check for proper rotation.

F. Receptacles: Test all receptacles for proper connections and grounding. Use an approved plug in tester, Hubbell 5200, Woodhead 1750, or equal.

G. Control Circuits

1. Check all circuits for continuity, proper connection, and proper operations.
2. Set all time-delay relays and timers for the desired operation. Record the settings indicating the relay or timer, its location, and the setting used. Verify all settings with a stopwatch.

H. Lighting

1. Install lighting fixtures in accordance with fixture manufacturer's written instructions and recognized industry practices.
2. Fasten fixtures securely to structural support members. Ensure that all fixtures are plumb or level.

3. Testing

- a. Upon completion of installation of lighting fixtures and after circuitry has been energized, apply electrical energy to demonstrate proper operation of lighting fixtures and controls.
- b. Install all new incandescent lamps just prior to final inspection. Replace gaseous discharge and fluorescent lamps that are defective, show discolorations, or have exceeded more than 1/3 of their rated life with new lamps for final inspection.
- c. Immediately before final inspection thoroughly clean all fixtures inside and out, including plastics and glassware, adjust all trim to properly fit adjacent surfaces, replace broken or damaged parts and lamp, and test all fixtures for electrical and mechanical operation.

3.07 - 3.10 (NOT USED)

3.11 MEASUREMENT AND PAYMENT

Measurement and payment for electrical items shall be per item and unit description as specified in the bid proposal.

END OF SECTION

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ENGINEER'S ESTIMATE

61ST STREET BOAT RAMP

ITEM NO.	SPEC. NO.	ITEM DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	TOTAL PRICE
1	104	Removing Concrete (Boat Ramp)	200	SY	\$15.00	\$3,000.00
2	104	Removing Concrete (Curb)	25	LF	\$6.00	\$150.00
3	110	Excavation (Roadway, Including Removal of All Grass, Soil, Gravel, Concrete, Asphalt, Base, and Debris)	2,515	CY	\$10.00	\$25,150.00
4	132	Embankment (Final) (Dens Cont) (Ty C)	5,290	CY	\$12.00	\$63,480.00
5	162	Block Sodding	50	SY	\$10.00	\$500.00
6	216	Proof Rolling to 90% Standard Proctor Density	10	HR	\$100.00	\$1,000.00
7	247	Flexible Base (12" Depth) (Type E) (Complete In Place) (Boat Ramp), Including Filter Fabric	212	SY	\$25.00	\$5,300.00
8	260	Lime (Hydrated, Commercial or Quicklime) (Slurry) or Quicklime (Dry)	60	TON	\$225.00	\$13,500.00
9	260	When Requested by Owner, in Lieu of 2' Vegetation Strip, Contractor to Continue Use of Lime (Hydrated, Commercial or Quicklime) (Slurry) or Quicklime (Dry) up to and Conforming to Geometrics of Bulkhead	1.8	TON	\$225.00	\$405.00
10	260	Lime Treatment (Subgrade) (DC) (6")	4,836	SY	\$5.00	\$24,180.00
11	260	When Requested by Owner, in Lieu of 2' Vegetation Strip, Contractor to Continue Lime Treatment (Subgrade) (DC) (6") up to and Conforming to Geometrics of Bulkhead	145	SY	\$5.00	\$725.00
12	360	Concrete Pavement (JRCP) (7") (Parking Lot, Including Header at Edge of Pavement)	4,836	SY	\$50.00	\$241,800.00
13	360	When Requested by Owner, in Lieu of 2' Vegetation Strip, Contractor to Continue Placement of Concrete Pavement (JRCP) (7") (Parking Lot) up to and Conforming to Geometrics of Bulkhead	145	SY	\$50.00	\$7,250.00
14	360	Concrete Pavement (JRCP) (8") (Boat Ramp)	210	SY	\$60.00	\$12,600.00
15	406	Treated Timber Piling (15" Diameter, 60' Length)	480	LF	\$44.00	\$21,120.00
16	406	Treated Timber Piling (18" Diameter, 75' Length)	1,500	LF	\$61.00	\$91,500.00
17	407	Steel Piling (PZ 27), Coated	23,550	SF	\$33.00	\$777,150.00
18	407	Steel Piling (PZ 22), Coated	4,466	SF	\$31.00	\$138,446.00

ENGINEER'S ESTIMATE

61ST STREET BOAT RAMP

ITEM NO.	SPEC. NO.	ITEM DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	TOTAL PRICE
19	420	Coping (Sheetpile Cap)	524	LF	\$150.00	\$78,600.00
20	420	Coping (Pile Cap Underwater at Base of Boat Ramp)	32	LF	\$300.00	\$9,600.00
21	423	Retaining Wall (Cast-In-Place, See Plans)	52	SF	\$100.00	\$5,200.00
22	432	Riprap (6"-18") (Special Riprap)	200	CY	\$125.00	\$25,000.00
23	490-492	Treated Timber Docks, Including All Treated Timber, Fasteners, Hangers, and Other Hardware as Needed (Excludes Timber Piling)	1	LS	\$71,500.00	\$71,500.00
24	496	Removing Structures (Bollard)	4	EA	\$100.00	\$400.00
25	496	Removing Structures (Existing Timber Piles, of the 56 Total, as Required for Installation of Proposed Boat Ramp and Docks)	20	EA	\$450.00	\$9,000.00
26	496	Removing Structures (Existing 400 SF Boat Dock, Excluding Timber Piles)	2	EA	\$3,000.00	\$6,000.00
27	500	Mobilization (5% Max)	1	LS	\$87,500.00	\$87,500.00
28	502	Barricades, Signs, and Traffic Handling	7	MO	\$1,500.00	\$10,500.00
29	506	Construction Exists (Install) (TY 3)	25	SY	\$20.00	\$500.00
30	506	Construction Exists (Remove) (TY 3)	25	SY	\$10.00	\$250.00
31	506	Temporary Sediment Control Fence	135	LF	\$5.00	\$675.00
32	506	Sandbags for Erosion Control	6	EA	\$25.00	\$150.00
33	529	Concrete Curb (Dowel) (6")	80	LF	\$20.00	\$1,600.00
34	644	Install Small Roadside Sign Supports and Assemblies (10BWG) (1) (SA) (P)	2	EA	\$750.00	\$1,500.00
35	666	Reflectorized Pavement Markings (W) (4") (Solid) (Ty I) (100 MIL)	1,285	LF	\$2.00	\$2,570.00
36	666	Reflectorized Pavement Markings (Y) (4") (Double Solid) (Ty I) (100 MIL)	10	LF	\$2.00	\$20.00
37	666	Reflectorized Pavement Markings (Y) (4") (Broken) (Ty I) (100 MIL)	80	LF	\$2.00	\$160.00
38	666	Reflectorized Pavement Markings (W) (12") (Solid) (Ty I) (100 MIL)	175	LF	\$5.00	\$875.00
39	666	Reflectorized Pavement Markings (W) (Arrow) (Ty I) (100 MIL)	1	EA	\$175.00	\$175.00

ENGINEER'S ESTIMATE

61ST STREET BOAT RAMP

ITEM NO.	SPEC. NO.	ITEM DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	TOTAL PRICE
40	666	Pavement Sealer (4")	1,375	LF	\$0.50	\$687.50
41	666	Pavement Sealer (12")	175	LF	\$1.00	\$175.00
42	666	Pavement Sealer (Arrow)	1	EA	\$30.00	\$30.00
43	678	Pavement Surface Preparation for Markings (4")	1,375	LF	\$0.30	\$412.50
44	678	Pavement Surface Preparation for Markings (12")	175	LF	\$0.50	\$87.50
45	678	Pavement Surface Preparation for Markings (Arrow)	1	EA	\$20.00	\$20.00
46	See Plans	Install Steel Pipe Bollard	3	EA	\$250.00	\$750.00
47	See Plans	Remove 10' (+/-) of 1' Wide Concrete Median, Inclusive of Cement Stabilized Subgrade, Pavement Repair, Nosing of Remaining 1' Median, and Adjustment of Turn Lane Striping	10	LF	\$250.00	\$2,500.00
48	See Plans	Remove and Dispose of Unsuitable (Consisting of Riprap with Reinforcing Steel and/or Unacceptable Gradation) Existing Riprap Shore Protection, as Directed by Owner	315	CY	\$20.00	\$6,300.00
49	See Plans	Remove Suitable Existing Riprap Shore Protection, Stockpile, and Relocate Evenly Along Shoreline Below Mean Higher High Water Elevation, as Directed by Owner	315	CY	\$30.00	\$9,450.00
TOTAL BASE BID						\$1,760,000.00

ENGINEER'S ESTIMATE

61ST STREET BOAT RAMP

Alternate No. 1 - Electrical

ITEM NO.	SPEC. NO.	ITEM DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	TOTAL PRICE
1	16050	Trench and Backfill (24" Deep)	550	LF	\$6.00	\$3,300.00
2	16050	1" Schedule 80 PVC Electrical Conduit	600	LF	\$3.00	\$1,800.00
3	16050	#8awg Electrical Wire	2,100	LF	\$1.19	\$2,499.00
4	16050	Light Pole w/ Single Fixture, Including Foundation	3	EA	\$5,000.00	\$15,000.00
5	16050	Light Pole w/ Dual Fixtures, Including Foundation	1	EA	\$6,000.00	\$6,000.00
6	16050	24"x36"x36" In Ground Pull Box	1	EA	\$1,500.00	\$1,500.00
7	16050	3/4" Ground Clamp	4	EA	\$30.00	\$120.00
8	16050	3/4"x10" Copper Clad Steel Ground Rod	4	EA	\$100.00	\$400.00

TOTAL ALTERNATE NO. 1	\$30,619.00
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Alternate No. 2 - Landscaping

ITEM NO.	SPEC. NO.	ITEM DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	TOTAL PRICE
1	160	Furnishing and Placing Topsoil (Vegetation Strip and Palm Tree Area)	55	CY	\$40.00	\$2,200.00
2	192	Plant Material (10' Palm Tree)	1	EA	\$1,000.00	\$1,000.00
3	192	Plant Material (Plugs at 18" Cntr)	347	EA	\$10.00	\$3,470.00
4	247	Flexible Base (18" Depth) (Type E) (Complete In Place) (Vegetation Strip), Including Filter	145.	SY	\$45.00	\$6,525.00

TOTAL ALTERNATE NO. 2	\$13,195.00
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TOTAL BASE BID AND ALTERNATE NOS. 1 & 2	\$1,804,000.00
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ENGINEER'S ESTIMATE

WASHINGTON PARK RECREATIONAL AREA

ITEM NO.	SPEC. NO.	ITEM DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	TOTAL PRICE
1	104	Removing Concrete (Slabs, Sidewalks, Etc.)	337	SY	\$10.00	\$3,370.00
2	104	Removing Concrete (Curb, Including Wheelstops)	394	LF	\$6.00	\$2,364.00
3	105	Removing Stabilized Base and Asphalt Pavement (Estimated on a Depth of 1 1/2" Asphalt and 4 1/2" Base; Actual Depths May Vary)	2,680	SY	\$6.00	\$16,080.00
4	110	Excavation (Roadway) (Estimated on a Depth of 12" Surficial Soil)	720	CY	\$10.00	\$7,200.00
5	132	Embankment (Final) (Dens Cont) (Ty C)	4,100	CY	\$12.00	\$49,200.00
6	162	Block Sodding	360	SY	\$10.00	\$3,600.00
7	216	Proof Rolling to 95% Standard Proctor Density (When Requested by Contractor and Approved by Owner)	10	HR	\$100.00	\$1,000.00
8	260	Lime (Hydrated, Commercial or Quicklime) (Slurry) or Quicklime (Dry)	26	TON	\$225.00	\$5,850.00
9	260	When Requested by Owner, in Lieu of 2' Vegetation Strip between Sta. 22+83.78 and Sta. 27+10.09, Contractor to Continue Use of Lime (Hydrated, Commercial or Quicklime) (Slurry) or Quicklime (Dry) up to and Conforming to Geometrics of Bulkhead	1.4	TON	\$225.00	\$315.00
10	260	Lime Treatment (Subgrade) (DC) (6")	2,100	SY	\$5.00	\$10,500.00
11	260	When Requested by Owner, in Lieu of 2' Vegetation Strip between Sta. 22+83.78 and Sta. 27+10.09, Contractor to Continue Lime Treatment (Subgrade) (DC) (6") up to and Conforming to Geometrics of Bulkhead	110	SY	\$5.00	\$550.00
12	360	Concrete Pavement (JRCP) (6") (Parking Lot, Including Header at Edge of Pavement)	1,942	SY	\$40.00	\$77,680.00
13	360	When Requested by Owner, in Lieu of 2' Vegetation Strip between Sta. 22+83.78 and Sta. 27+10.09, Contractor to Continue Placement of Concrete Pavement (JRCP) (6") (Parking Lot) up to and Conforming to Geometrics of Bulkhead	110	SY	\$40.00	\$4,400.00
14	406	Treated Timber Piling (15" Diameter, 50' Length)	2,000	LF	\$44.00	\$88,000.00
15	407	Steel Piling (PZ 27), Coated	16,680	SF	\$33.00	\$550,440.00
16	407	Steel Piling (PZ 22), Coated	10,940	SF	\$31.00	\$339,140.00

ENGINEER'S ESTIMATE

WASHINGTON PARK RECREATIONAL AREA

ITEM NO.	SPEC. NO.	ITEM DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	TOTAL PRICE
17	420	Coping (Sheetpile Cap)	855	LF	\$150.00	\$128,250.00
18	423	Retaining Wall (Cast-In-Place, See Plans)	69	SF	\$100.00	\$6,900.00
19	432	Riprap (6"-18") (Special Riprap)	64	CY	\$125.00	\$8,000.00
20	490-492	Treated Timber Fishing Pier (South Fishing Pier Bents 1 to 19), Including All Treated Timber, Fasteners, Hangers, and Other Hardware as Needed (Excludes Timber Piling)	1	LS	\$44,000.00	\$44,000.00
21	496	Removing Structures (Bollard)	4	EA	\$100.00	\$400.00
22	496	Removing Structures (Existing Timber Piles, of the 20 Total, Including Any Pile Connections as Required for Installation of Proposed Fishing Pier)	6	EA	\$450.00	\$2,700.00
23	500	Mobilization (5% Max)	1	LS	\$95,000.00	\$95,000.00
24	502	Barricades, Signs, and Traffic Handling	9	MO	\$1,500.00	\$13,500.00
25	506	Construction Exists (Install) (TY 3)	380	SF	\$20.00	\$7,600.00
26	506	Construction Exists (Remove) (TY 3)	380	SF	\$10.00	\$3,800.00
27	506	Temporary Sediment Control Fence	175	LF	\$5.00	\$875.00
28	506	Sandbags for Erosion Control	8	EA	\$25.00	\$200.00
29	529	Concrete Curb (Dowel) (6")	728	LF	\$20.00	\$14,560.00
30	529	Slotted Concrete Curb (Dowel) (6") (Includes Wheelstops)	380	LF	\$20.00	\$7,600.00

ENGINEER'S ESTIMATE

WASHINGTON PARK RECREATIONAL AREA

ITEM NO.	SPEC. NO.	ITEM DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	TOTAL PRICE
31	644	Install Small Roadside Sign Supports and Assemblies (10BWG) (1) (SA) (P)	6	EA	\$750.00	\$4,500.00
32	666	Reflectorized Pavement Markings (W) (4") (Solid) (Ty I) (100 MIL)	650	LF	\$2.00	\$1,300.00
33	666	Reflectorized Pavement Markings (W) (Symbol) (Ty I) (100 MIL)	2	EA	\$175.00	\$350.00
34	666	Pavement Sealer (4")	650	LF	\$0.50	\$325.00
35	666	Pavement Sealer (Symbol)	2	EA	\$30.00	\$60.00
36	678	Pavement Surface Preparation for Markings (4")	650	LF	\$0.30	\$195.00
37	678	Pavement Surface Preparation for Markings (Symbol)	2	EA	\$20.00	\$40.00
38	See Plans	Install Steel Pipe Bollard, as Directed by Owner	1	EA	\$250.00	\$250.00
39	See Plans	Transition Plate, 3'-3"x5'x3/8" Diamond Plate, Galvanized	3	EA	\$600.00	\$1,800.00
40	See Plans	Remove and Dispose of Unsuitable (Consisting of Riprap with Reinforcing Steel and/or Unacceptable Gradation) Existing Riprap Shore Protection, as Directed by Owner	461	CY	\$20.00	\$9,220.00
41	See Plans	Remove Suitable Existing Riprap Shore Protection, Stockpile, and Relocate Evenly Along Shoreline Below Mean Higher High Water Elevation, as Directed by Owner	461	CY	\$30.00	\$13,830.00
TOTAL BASE BID						\$1,525,000.00

ENGINEER'S ESTIMATE

WASHINGTON PARK RECREATIONAL AREA

Alternate No. 1 - 105' South Fishing Pier Extension (Bents 20 to 30)

ITEM NO.	SPEC. NO.	ITEM DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	TOTAL PRICE
1	406	Treated Timber Piling (15" Diameter, 50' Length)	1,000	LF	\$44.00	\$44,000.00
2	490-492	Treated Timber Fishing Pier, Including All Treated Timber, Fasteners, Hangers, and Other Hardware as Needed (Excludes Timber Piling)	1	LS	\$27,500.00	\$27,500.00
3	See Plans	Transition Plate, 3'-3"x5'x3/8" Diamond Plate, Galvanized	1	EA	\$600.00	\$600.00

TOTAL ALTERNATE NO. 1	\$72,100.00
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Alternate No. 2 - 194' North Fishing Pier

ITEM NO.	SPEC. NO.	ITEM DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	TOTAL PRICE
1	406	Treated Timber Piling (15" Diameter, 50' Length)	2,000	LF	\$44.00	\$88,000.00
2	490-492	Treated Timber Fishing Pier, Including All Treated Timber, Fasteners, Hangers, and Other Hardware as Needed (Excludes Timber Piling)	1	LS	\$35,500.00	\$35,500.00
3	531	Concrete Sidewalk (4 1/2"), Including Compacted Bedding	149	SY	\$40.00	\$5,960.00
4	See Plans	Transition Plate, 3'-3"x5'x3/8" Diamond Plate, Galvanized	3	EA	\$600.00	\$1,800.00

TOTAL ALTERNATE NO. 2	\$131,260.00
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Alternate No. 3 - Large Pavilion (18'X24')

ITEM NO.	SPEC. NO.	ITEM DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	TOTAL PRICE
1	531	Concrete Sidewalk (4 1/2"), Including Compacted Bedding	22	SY	\$40.00	\$880.00
2	02870	Trash Receptacle	1	EA	\$1,300.00	\$1,300.00

ENGINEER'S ESTIMATE

WASHINGTON PARK RECREATIONAL AREA

ITEM NO.	SPEC. NO.	ITEM DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	TOTAL PRICE
3	02870	Stainless Steel Grill	1	EA	\$600.00	\$600.00
4	02870	Aluminum Picnic Table	4	EA	\$1,500.00	\$6,000.00
5	02870	Aluminum Picnic Table (ADA Accessible)	2	EA	\$1,500.00	\$3,000.00
6	02870	18'x24' Pavilion w/ 28'x34' Concrete Slab	1	EA	\$35,000.00	\$35,000.00

TOTAL ALTERNATE NO. 3	\$46,780.00
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Alternate No. 4 - Small Pavilion (16'X16')

ITEM NO.	SPEC. NO.	ITEM DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	TOTAL PRICE
1	02870	Trash Receptacle	1	EA	\$1,300.00	\$1,300.00
2	02870	Stainless Steel Grill	1	EA	\$600.00	\$600.00
3	02870	Aluminum Picnic Table	3	EA	\$1,500.00	\$4,500.00
4	02870	Aluminum Picnic Table (ADA Accessible)	1	EA	\$1,500.00	\$1,500.00
5	02870	16'x16' Pavilion w/ 26'x26' Concrete Slab	1	EA	\$25,000.00	\$25,000.00

TOTAL ALTERNATE NO. 4	\$32,900.00
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Alternate No. 5 - Small Pavilion (16'X16')

ITEM NO.	SPEC. NO.	ITEM DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	TOTAL PRICE
1	02870	Trash Receptacle	1	EA	\$1,300.00	\$1,300.00
2	02870	Stainless Steel Grill	1	EA	\$600.00	\$600.00
3	02870	Aluminum Picnic Table	3	EA	\$1,500.00	\$4,500.00
4	02870	Aluminum Picnic Table (ADA Accessible)	1	EA	\$1,500.00	\$1,500.00
5	02870	16'x16' Pavilion w/ 26'x26' Concrete Slab	1	EA	\$25,000.00	\$25,000.00

TOTAL ALTERNATE NO. 5	\$32,900.00
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ENGINEER'S ESTIMATE

WASHINGTON PARK RECREATIONAL AREA

Alternate No. 6 - Electrical

ITEM NO.	SPEC. NO.	ITEM DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	TOTAL PRICE
1	16050	Trench and Backfill (24" Deep)	900	LF	\$6.00	\$5,400.00
2	16050	1" Schedule 80 PVC Electrical Conduit	2,100	LF	\$3.00	\$6,300.00
3	16050	1 1/2" Schedule 80 PVC Electrical Conduit	50	LF	\$6.00	\$300.00
4	16050	3/4" Ground Clamp	11	EA	\$30.00	\$330.00
5	16050	3/4"x10" Copper Clad Steel Ground Rod	11	EA	\$100.00	\$1,100.00
6	16050	1 1/2" PVC Weatherhead	1	EA	\$50.00	\$50.00
7	16050	#3awg Electrical Wire	150	LF	\$2.75	\$412.50
8	16050	#4awg Ground Wire	3,000	LF	\$2.30	\$6,900.00
9	16050	#8awg Electrical Wire	3,000	LF	\$1.19	\$3,570.00
10	16050	#12awg Electrical Wire	1,100	LF	\$0.75	\$825.00
11	16050	Meter Socket 100A, 120/240V	1	EA	\$150.00	\$150.00
12	16050	24"x36"x90" Stainless Steel NEMA 4X Enclosure	1	EA	\$10,000.00	\$10,000.00
13	16050	4'x8'x18" High Equipment Pad	1	EA	\$2,000.00	\$2,000.00
14	16050	100A, Single Phase, 120/240V Panelboard, 14 Circuit	1	EA	\$1,000.00	\$1,000.00
15	16050	Photocell	1	EA	\$50.00	\$50.00
16	16050	24-hour, Dial Type Electric Timer	1	EA	\$300.00	\$300.00
17	16050	4 Pole, 30A Rated, Lighting Contactor	1	EA	\$600.00	\$600.00
18	16050	Light Pole w/ Single Fixture, Including Foundation	5	EA	\$5,000.00	\$25,000.00
19	16050	GFCI Receptacle in Weatherproof Enclosure	4	EA	\$200.00	\$800.00
20	16050	Pedestrian Light Pole w/ Single Fixture, Including Foundation	5	EA	\$3,500.00	\$17,500.00
21	16050	24"x36"x36" In Ground Pull Box	1	EA	\$1,500.00	\$1,500.00
TOTAL ALTERNATE NO. 6						\$84,087.50

ENGINEER'S ESTIMATE

WASHINGTON PARK RECREATIONAL AREA

Alternate No. 7 - Landscaping

ITEM NO.	SPEC. NO.	ITEM DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	TOTAL PRICE
1	160	Furnishing and Placing Topsoil (Vegetation Strip and Palm Tree Areas)	92	CY	\$40.00	\$3,680.00
2	192	Plant Material (10' Palm Tree)	7	EA	\$1,000.00	\$7,000.00
3	192	Plant Material (Plugs at 18" Cntr)	432	EA	\$10.00	\$4,320.00
4	247	Flexible Base (18" Depth) (Type E) (Complete In Place) (Vegetation Strip, Including Filter Fabric)	180	SY	\$45.00	\$8,100.00

TOTAL ALTERNATE NO. 7	\$23,100.00
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TOTAL BASE BID AND ALTERNATE NOS. 1 THRU 7	\$1,949,000.00
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ENGINEER'S ESTIMATE

61st STREET PEDESTRIAN BRIDGE

ITEM NO.	SPEC. NO.	ITEM DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	TOTAL PRICE
1	500	BARGE MOBILIZATION	1	LS	\$ 20,000.00	\$ 20,000.00
2	409	PRESTR CONC PIL (16 IN)	830	LF	\$ 50.00	\$ 41,500.00
3	420	CL C CONC (CAP)	34.5	CY	\$ 1,100.00	\$ 37,950.00
4	420	CL C CONC (RETAINING WALL)	43	CY	\$ 1,400.00	\$ 60,200.00
5	422	REINF CONC SLAB	3,870	SF	\$ 15.00	\$ 58,050.00
6	425	PRESTR CONC SLAB BEAM (4SB12)	412.7	LF	\$ 225.00	\$ 92,857.50
7	450	RAIL (TY PR1)	468	LF	\$ 100.00	\$ 46,800.00
8	15001	PREFABRICATED PEDESTRIAN STEEL BRIDGE SPANS (1-80")	2	EA	\$ 165,000.00	\$ 330,000.00

TOTAL	\$687,357.50
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Electrical

ITEM NO.	SPEC. NO.	ITEM DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	TOTAL PRICE
1	16050	1" Schedule 80 PVC Electrical Conduit	520	LF	\$3.00	\$1,560.00
2	16050	Pull Box Embedded in Pedestrian Bridge Concrete Deck	11	EA	\$50.00	\$550.00
3	16050	#8awg Electrical Wire	800	LF	\$1.19	\$952.00
4	16050	#12awg Electrical Wire	1,000	LF	\$0.75	\$750.00
5	16050	Pedestrian Light Pole w/ Single Fixture, Installed on Pedestrian Bridge	5	EA	\$3,500.00	\$17,500.00

TOTAL Electrical	\$21,312.00
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TOTAL BASE BID	\$708,669.50
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ENGINEER'S ESTIMATE

61st STREET PEDESTRIAN BRIDGE

Alternate No. 1 - Pedestrian Bridge*

ITEM NO.	SPEC. NO.	ITEM DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	TOTAL PRICE
1	422	REINF CONC SLAB	3,870	SF	\$ 15.00	\$ 58,050.00
2	15001	PREFABRICATED PEDESTRIAN STEEL BRIDGE SPANS (1-41')	1	EA	\$ 51,800.00	\$ 51,800.00
3	15001	PREFABRICATED PEDESTRIAN STEEL BRIDGE SPANS (1-38')	1	EA	\$ 51,800.00	\$ 51,800.00
4	15001	PREFABRICATED PEDESTRIAN STEEL BRIDGE SPANS (1-30')	1	EA	\$ 51,800.00	\$ 51,800.00
5	15001	PREFABRICATED PEDESTRIAN STEEL BRIDGE SPANS (1-28.5')	1	EA	\$ 51,800.00	\$ 51,800.00

TOTAL ALTERNATE NO. 1	\$207,200.00
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*Prefabricated sections are in substitution for Item 5 "Reinf Conc Slab" & Item 6 "Prestr Conc Slab Beams"

TOTAL PROJECT BID (Boat Ramp, Washington Park, and Pedestrian Bridge)	\$4,461,669.50
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TOTAL PROJECT BID (Boat Ramp, Washington Park, and Pedestrian Bridge)**	\$4,576,012.00
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**This cost is using Alternate No 1. for the Pedestrian Bridge.

THIS PROPOSAL CONSISTS OF A BASE BID AND ALTERNATE BIDS. FOR A BID TO BE CONSIDERED RESPONSIVE, ALL SECTIONS MUST BE COMPLETED. ANY COMBINATION OF BASE BID AND ALTERNATE BID(S) MAY BE AWARDED; HOWEVER, IN NO CASE WILL THE ALTERNATE BID(S) ONLY BE AWARDED. THE AWARD OF THE CONTRACT WILL BE BASED ON THE BID TO BE IN THE BEST INTEREST OF GALVESTON COUNTY.

ALL ITEMS OF WORK REQUIRED UNDER THIS CONTRACT NOT SPECIFICALLY CALLED FOR IN THE PROPOSAL AS PAY ITEMS SHALL BE CONSIDERED INCIDENTAL TO THE VARIOUS BID ITEMS AND NO SEPARATE PAYMENT SHALL BE MADE FOR SAME.





Form 1058
(Rev. 9/2004)
(GSD-EPC)
Page 1 of 2

REC'D MAR 02 2015

Permit to Construct Access Driveway Facilities on Highway Right of Way

To: **AECOM**
5444 Westheimer Rd., Ste. 200
Houston, TX 77057

Hwy. **SS 342**
Control **51**
713-267-2949
(Phone)

Permit No. **10-1216 R**
Section **8**

The Texas Department of Transportation, hereinafter called the State, hereby authorizes AECOM, hereinafter called the Permittee, to construct/reconstruct a Public access driveway on the highway right of way abutting highway number SS 342 in Galveston County, located Avenue L.

Subject to the Following:

1. The Permittee is responsible for all costs associated with the construction of this access driveway.
2. Design of facilities shall be as follows and/or as shown on sketch and is subject to conditions stated below:
Modify 3 existing driveways as shown on the attached drawing dated 01-10-13.

Access Only (No developed flow to TxDOT)

All Construction and materials shall be subject to inspection and approval by the State.

3. Maintenance of facilities constructed hereunder shall be the responsibility of the Permittee, and the State reserves the right to require any changes, maintenance or repairs as may be necessary to provide protection of life or property on or adjacent to the highway. Changes in design will be made only with approval of the State.
4. The Permittee shall hold harmless the State and its duly appointed agents and employees against any action for personal injury or property damage sustained by reason of exercise of this permit.
5. Except for regulatory and guide signs at county roads and city streets, the Permittee shall not erect any sign on or extending over any portion of the highway right of way, and vehicle service fixtures such as service pumps, vendor stands, or tanks shall be located at least 12 feet from the right of way line to ensure that any vehicle services from these fixtures will be off the highway right of way.
6. The State reserves the right to require a new access driveway permit in the event of a land use change or change in driveway traffic volume or vehicle types.
7. This permit will become null and void if the above-referenced driveway facilities are not constructed within six (6) months from the issuance date of this permit.
8. The Permittee will contact the State's representative Kerry V. Kipp at telephone (409) 978-2553 at least twenty-four (24) hours prior to beginning the work authorized by this permit.

April 03, 2013

Date of Issuance

Texas Department of Transportation
James V. Hunt, P.E.

James V. Hunt, P.E.
Director of Maintenance
Houston District

The undersigned hereby agrees to comply with the terms and conditions set forth in this permit for construction of an access driveway on the highway right of way.

Date: Feb. 24, 2015
(Date)

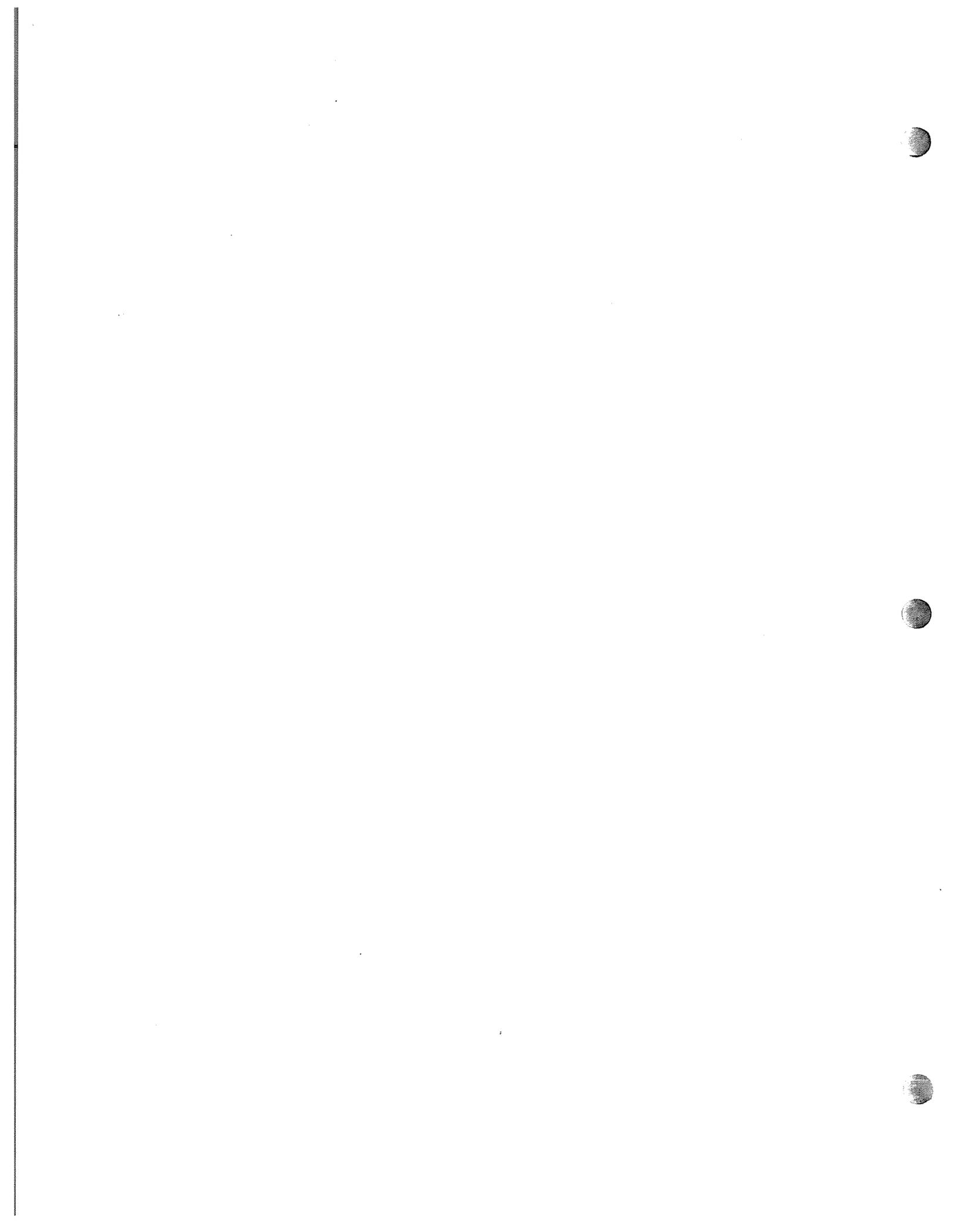
Signed: _____
(Property owner or owner's representative)

Time extension of 6 months is granted.

Expires on (date) Aug. 24, 2015

S. K. O., P.E.

for Director of Maintenance





Texas Department of Transportation[®]

P.O. BOX 1386 • HOUSTON, TEXAS 77251-1386 • (713) 802-5000

February 5, 2015

Galveston County Department of Parks & Senior Services
c/o Kristin L. Landry, P.E.
AECOM
5444 Westheimer Road
Houston, Texas 77056

RE: Landscape Permit
Permit No. 13-001R
Galveston County
SP 342
Control Section 0051-08

Dear Ms. Landry:

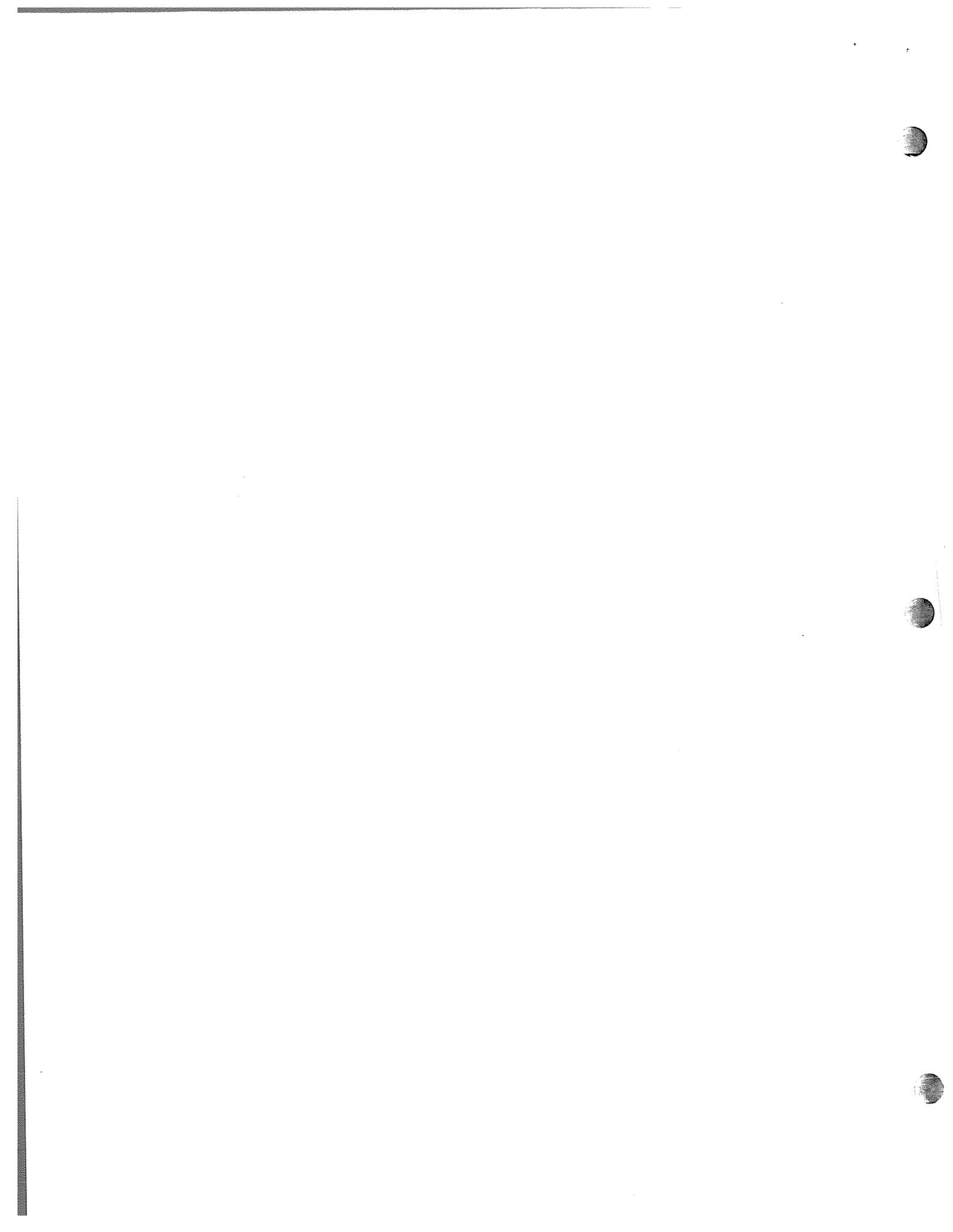
Reference is made to your request dated January 12, 2015, covering a revision to the landscape development project (see attachment) within the right-of-way of SP 342. The revision to the project is the termination date (see No. 14 of this permit). We offer no objection to your request, subject to the following provisions:

1. It is expressly understood that the State does not purport hereby to grant any right, claim, title, or easement in or upon this highway. It is also understood that the State may remove, without notification or reimbursement to the grantee, any landscape development which may be deemed necessary to provide protection of life or property. It is also understood that the State may remove, without notification or reimbursement to the grantee, any landscape development which interferes with the safety of the traveling public, any construction work, or maintenance work that may be done on this road. Upon notification by the State the grantee may remove, at their expense, all or any portion of the landscape development originally installed as part of this permit.
2. It is mutually agreed and understood that the grantee is responsible as provided by law for its individual acts and deeds as well as the acts and deeds of its contractors, employees, representatives, and agents. The grantee shall hold harmless the State and its duly appointed agents and employees against any action for personal injury or property damage sustained by reason of exercise of this permit.

OUR GOALS

MAINTAIN A SAFE SYSTEM • ADDRESS CONGESTION • CONNECT TEXAS COMMUNITIES • BEST IN CLASS STATE AGENCY

An Equal Opportunity Employer



3. The grantee acknowledges and fully accepts responsibility and liability for the design, construction, maintenance, and operation of this project. Maintenance and operation of the project hereunder shall be the responsibility of the grantee for the life of the project. The State reserves the right to cancel the project or to require any changes, maintenance, repairs or removal as may be necessary to provide protection of life or property. Changes will be made only with approval of the State.
4. The grantee acknowledges and understands the project shall not display any religious, political, special interest, private, or commercial messages of any sort.
5. Grantee shall obtain overall environmental clearance with all appropriate regulatory agencies prior to beginning construction. Approval of this request by the Texas Department of Transportation does not relieve the grantee or its agent(s) of this obligation.
6. Grantee shall procure all permits and licenses, which are to be issued to the grantee or its agent(s) by the City, County or State.
7. Grantee shall locate all overhead and/or underground conduits and utilities. Any damage to utilities will be the responsibility of the grantee and will be repaired at the grantee's expense. It is also understood that the State and/or utility owner may remove, without notification or reimbursement to the grantee, any landscape development which interferes with any utility services, any utility construction work, or any utility maintenance work.
8. Grantee shall use Best Management Practices to minimize erosion and sedimentation resulting from proposed construction and maintenance activities.
9. Construction and maintenance of this project shall be in accordance with State and/or industry standards, and shall be as approved and/or directed by the State.
10. Construction and maintenance of this project shall not damage any part of the highway, and adequate provisions must be made to cause minimum inconvenience to traffic and adjacent property owners. The grantee shall repair or replace structures or surfaces damaged by grantee or its agent(s) during any phase of the project to the satisfaction of the State.
11. Construction and maintenance of this project shall not adversely affect or change the existing or proposed drainage patterns within the area. It is understood that the State may remove, without notification or reimbursement to the grantee, all or any portion of, the project which interferes with drainage.



- 12. Construction and maintenance of this project shall be so conducted that it will not interfere in any way with any highway construction or maintenance work that may be done on this road. In the event that such interference occurs, you will cease operations in the area involved until such time as the roadwork is completed.

- 13. This permit issued subject to a traffic control plan approved by the Area Engineer. It is understood that the grantee shall provide, erect and maintain barricades, signs and traffic handling devices necessary to protect the safety of the traveling public for the project. All placement of barricades, signs and traffic handling devices must conform to the Texas Manual on Uniform Traffic Control Devices required for adoption by the "Uniform Act Regulating Traffic on Highways" (V.C.S. 6701d). No work within State right-of-way shall begin until this approval has been given.

- 14. This approval shall be void if construction is not complete by May 1, 2016.

- 15. Performance of work within highway right-of-way will constitute your acceptance of the terms herein listed.

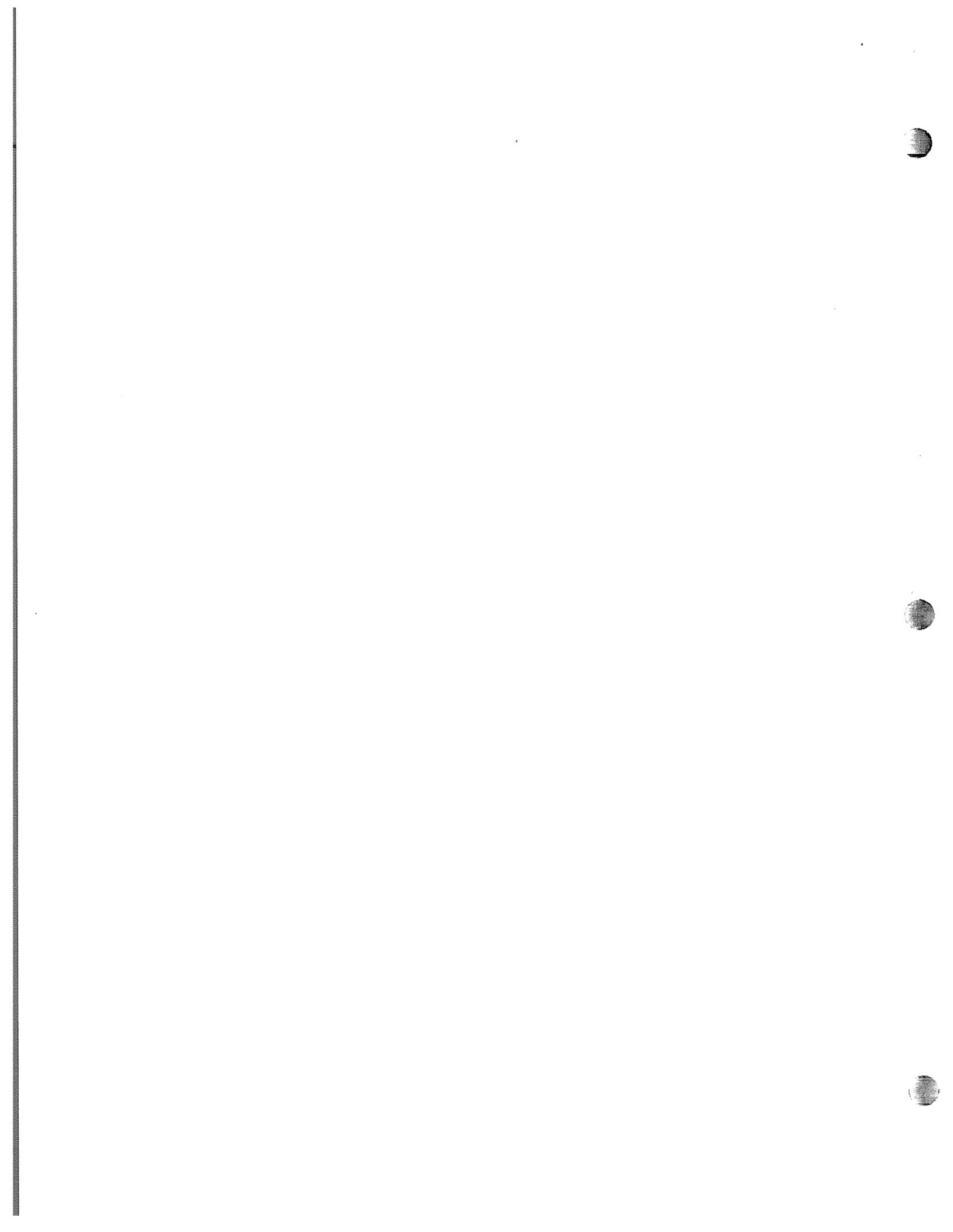
Please notify Muhammad J. Elahi, Area Engineer, at telephone number (409) 978-2500, at least 48 hours before beginning work so that he may have a representative present.

Sincerely,



James V. Hunt, P.E.
Director of Maintenance
Houston District

DC
Attachment
cc: Muhammad J. Elahi, P.E.



Attachment A



AECOM
5757 Woodway Drive
Suite 101 West
Houston, Texas 77057
www.aecom.com

713 780 4100 tel
713 278 4650 fax

August 3, 2010

Mr. Dana Cote
Texas Department of Transportation
7600 Washington Avenue
Houston, Texas 77007

**Subject: 61st Street Boat Ramp and Washington Park, Galveston County, Texas
Request for Landscaping Permit
AECOM Job No. 60073413**

Dear Mr. Cote:

AECOM is under contract with Galveston County Department of Parks & Senior Services to prepare plans and specifications for improvements to two adjacent park areas in Galveston off Spur 342 (61st Street). The proposed improvements for the 61st Street Boat Ramp area and Washington Park are shown on the attached Demolition and Proposed Layout sheet for each project. Part of the proposed improvements at each park involves the addition of landscaping features, which are detailed on the attached Planting Plan and Planting Details sheets for each project. Some of these features extend into the Spur 342 right-of-way, as shown on the Demolition and Proposed Layout sheet for each project.

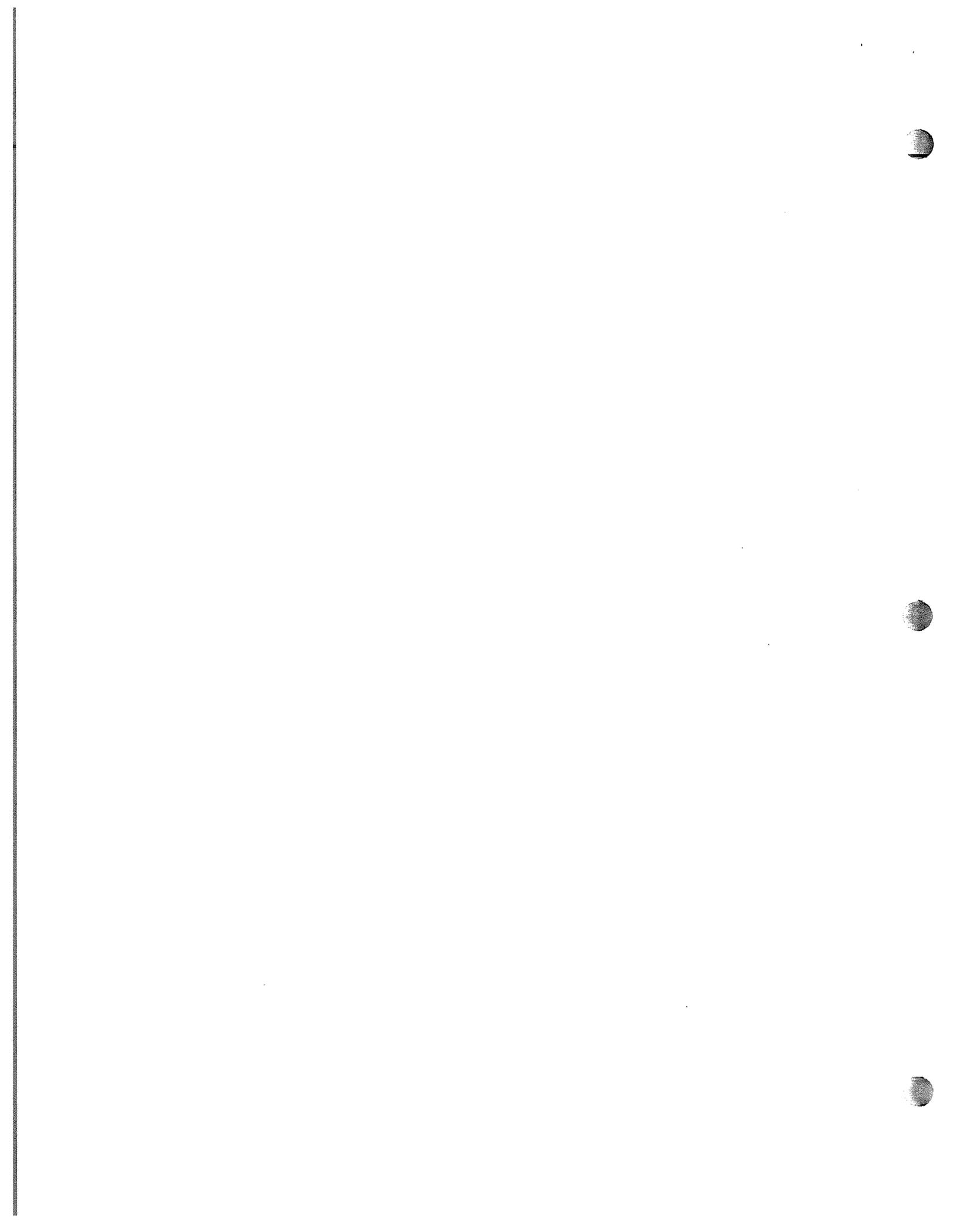
We are requesting a landscaping permit to allow installation of the landscaping features at the 61st Street Boat Ramp area and Washington Park. For your information, both projects are being funded by Galveston County, with partial funding through grants and FEMA as a result of Hurricane Ike. Galveston County maintains both park areas and will maintain the landscaping features installed as part of these two projects. The applicant requesting this landscaping permit is Galveston County Department of Parks & Senior Services.

Should you require any additional information to facilitate the Galveston County Department of Parks & Senior Services' request, please contact me at 713-287-2949 or kristin.landry@aecom.com. Thank you.

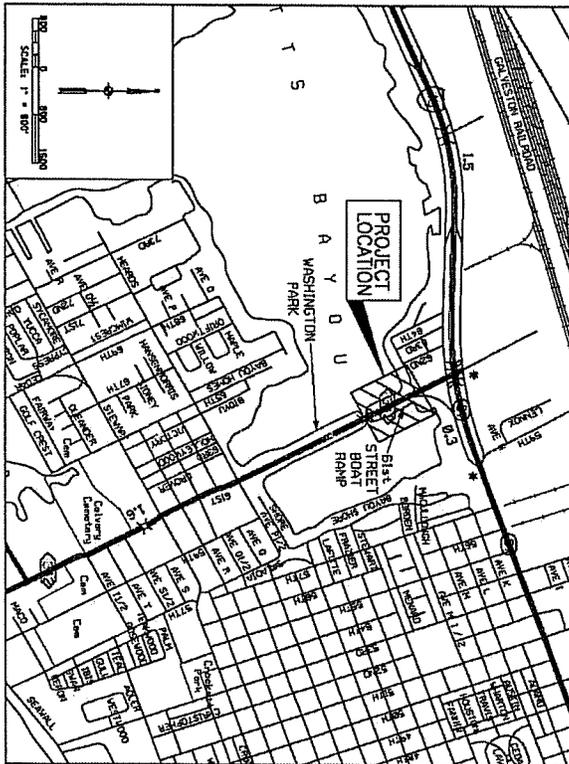
Sincerely,

Kristin Landry

Attachments: 61st Street Boat Ramp & Washington Park drawings



**GALVESTON COUNTY
DEPARTMENT OF PARKS & SENIOR SERVICES
PLANS FOR CONSTRUCTION OF
61st STREET BOAT RAMP
Galveston, Texas**



AECOM

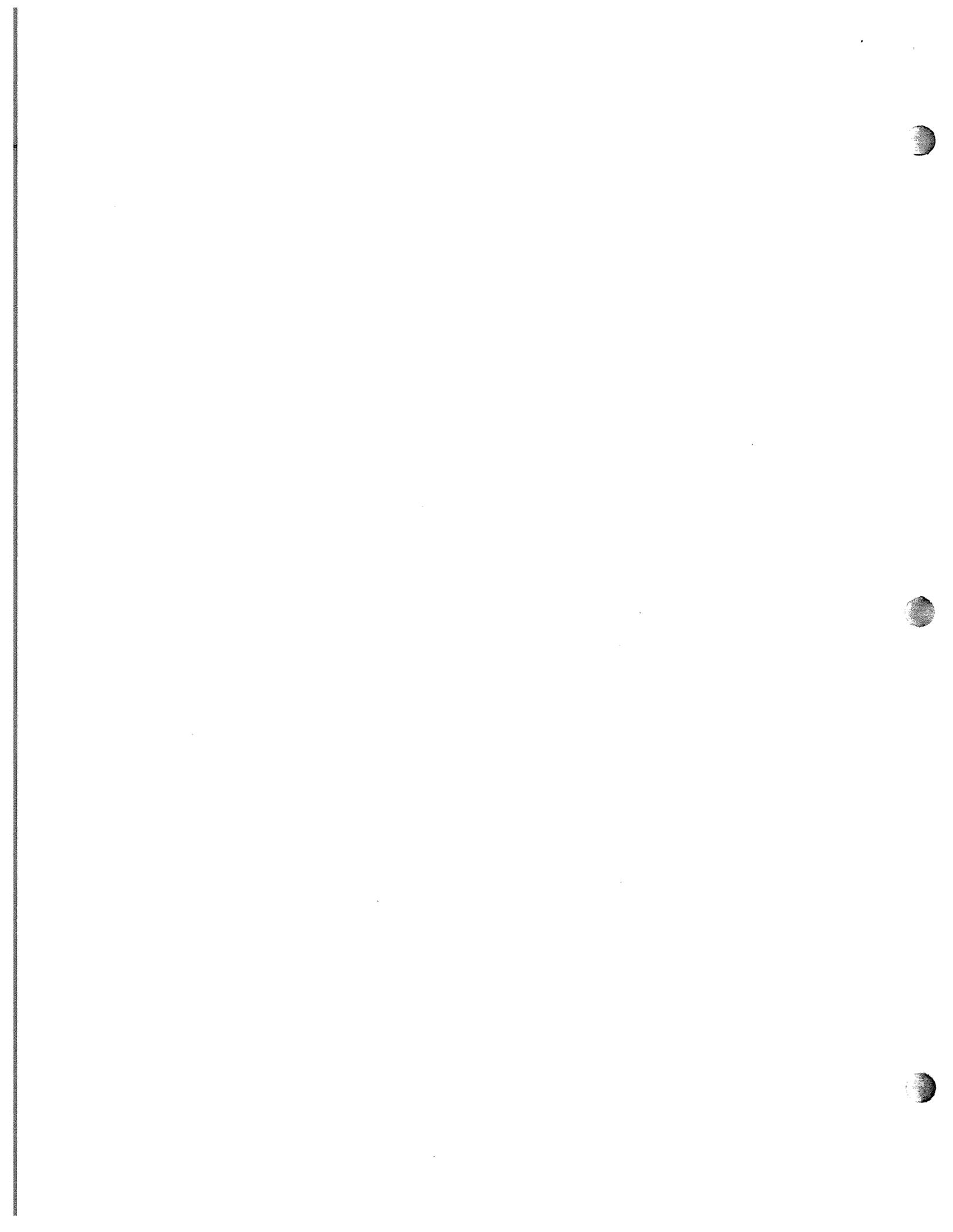
PROJECT NO. 60073413
JANUARY 2010

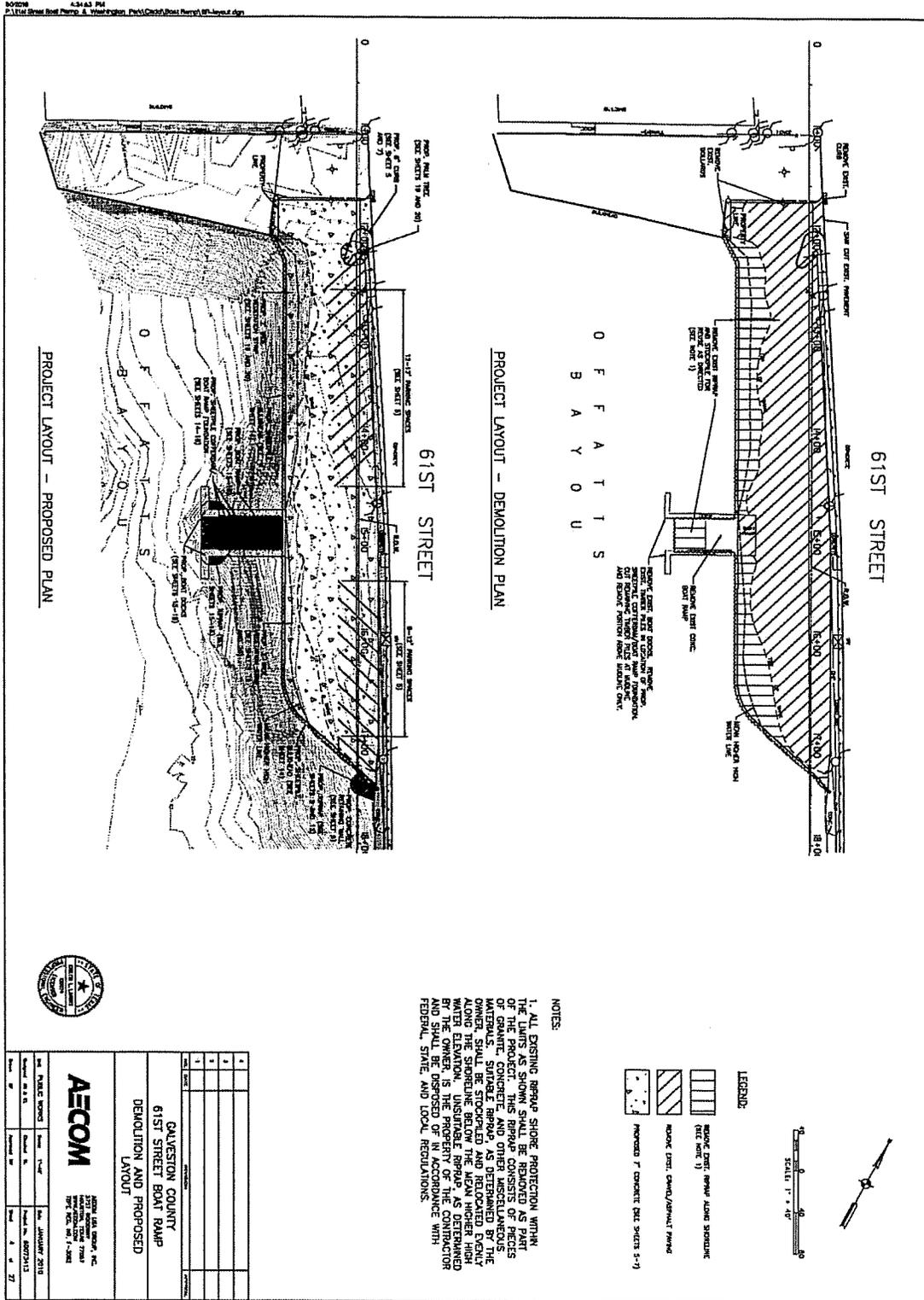


INDEX OF DRAWINGS

SHEET NO.	SHEET TITLE
1 OF 27	CIVIL SHEET AND INDEX OF DRAWINGS
2 OF 27	GENERAL CONSTRUCTION NOTES
3 OF 27	BOAT RAMP
4 OF 27	FOUNDATION AND PILE CAPS
5 OF 27	PILE CAPS AND PILING
6 OF 27	PILE CAPS AND PILING (CONT.)
7 OF 27	PILE CAPS AND PILING (CONT.)
8 OF 27	PILE CAPS AND PILING (CONT.)
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PROJECT LAYOUT - DEMOLITION PLAN

PROJECT LAYOUT - PROPOSED PLAN

61ST STREET

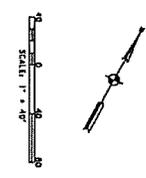
61ST STREET

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NOTES:
1. ALL EXISTING BRIDGE SHORE PROTECTION WITHIN THE LIMITS AS SHOWN SHALL BE REMOVED AS PART OF THE PROJECT. THIS REMOVAL CONSISTS OF PIECES OF GRANITE, CONCRETE AND OTHER MISCELLANEOUS MATERIALS. SHORTEL RAMP AS DETERMINED BY THE CONTRACTOR SHALL BE REMOVED AS SHOWN ALONG THE SHORELINE BELOW THE MEAN HIGHER HIGH WATER ELEVATION. UNSUITABLE REMOVAL AS DETERMINED BY THE OWNER, IS THE PROPERTY OF THE CONTRACTOR AND SHALL BE DISPOSED OF IN ACCORDANCE WITH FEDERAL, STATE AND LOCAL REGULATIONS.

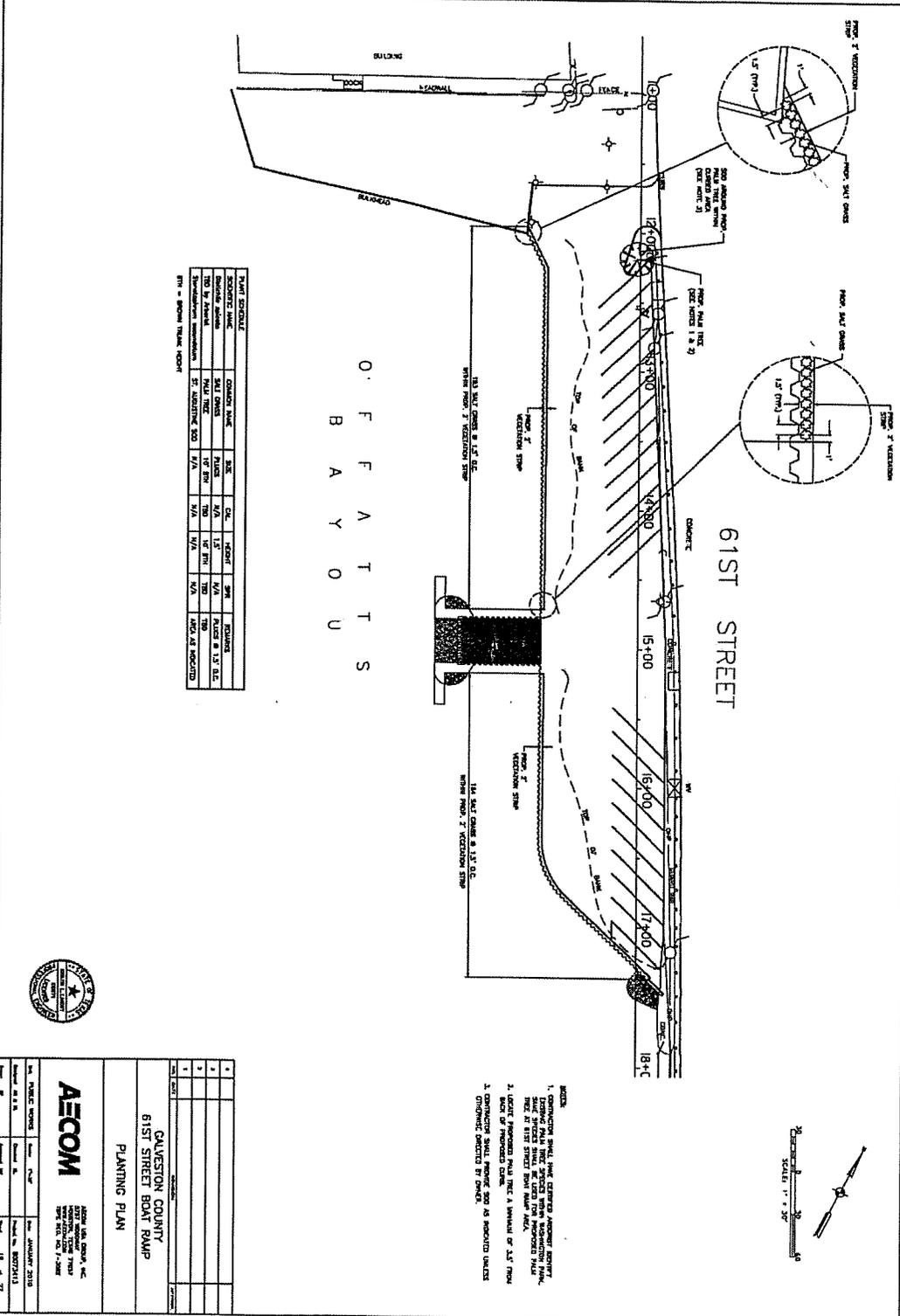
LEGEND:
 REMOVED CONCRETE/STRUCTURE
 REMOVED CONCRETE ALONG SHORELINE
 REMOVED CONCRETE CHANNEL/STRUCTURE



<p>AECOM 2000 LBJ FRIEDLAND BLVD. SUITE 1000 HOUSTON, TEXAS 77055 TEL: 713.861.1000 FAX: 713.861.1001</p>		<p>DATE: JANUARY 2015 PROJECT NO: 00072413 SHEET NO: 27</p>
<p>STATE OF TEXAS ENGINEER'S SEAL</p>		
<p>PROJECT: GALVESTON COUNTY 61ST STREET BOAT RAMP DEMOLITION AND PROPOSED LAYOUT</p>		



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ITEM	QUANTITY	UNIT	PRICE	TOTAL
1.00	1.00	LINEAL FOOT	1.00	1.00
2.00	1.00	SQ. YARD	1.00	1.00
3.00	1.00	LINEAL FOOT	1.00	1.00
4.00	1.00	SQ. YARD	1.00	1.00
5.00	1.00	LINEAL FOOT	1.00	1.00
6.00	1.00	SQ. YARD	1.00	1.00
7.00	1.00	LINEAL FOOT	1.00	1.00
8.00	1.00	SQ. YARD	1.00	1.00
9.00	1.00	LINEAL FOOT	1.00	1.00
10.00	1.00	SQ. YARD	1.00	1.00
11.00	1.00	LINEAL FOOT	1.00	1.00
12.00	1.00	SQ. YARD	1.00	1.00
13.00	1.00	LINEAL FOOT	1.00	1.00
14.00	1.00	SQ. YARD	1.00	1.00
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21.00	1.00	LINEAL FOOT	1.00	1.00
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ITEM - SQUARE FEET PRICE



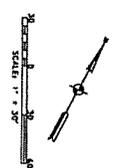
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2	CHECKED	12/15/13
3	APPROVED	12/15/13
4	ISSUED FOR PERMIT	12/15/13

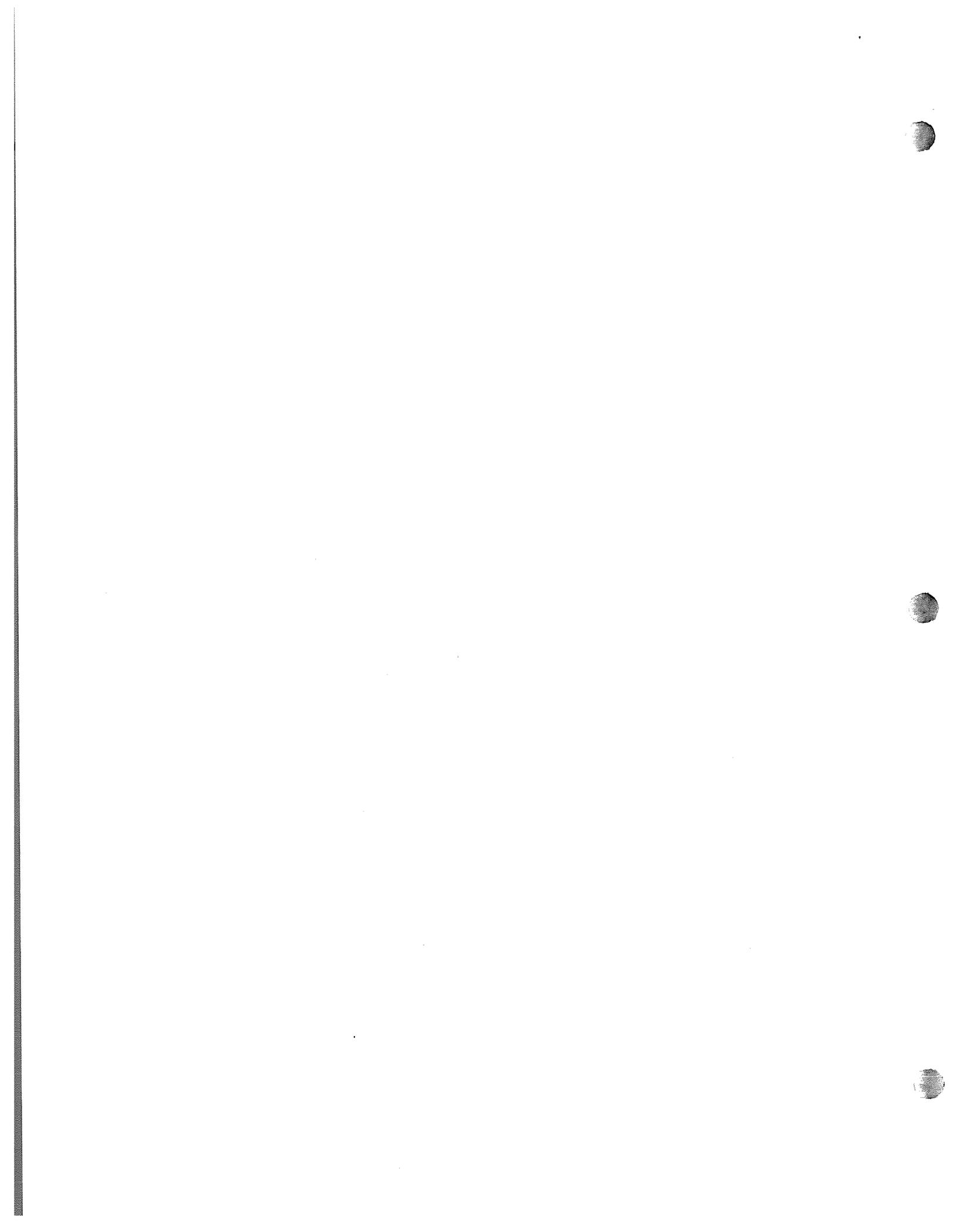
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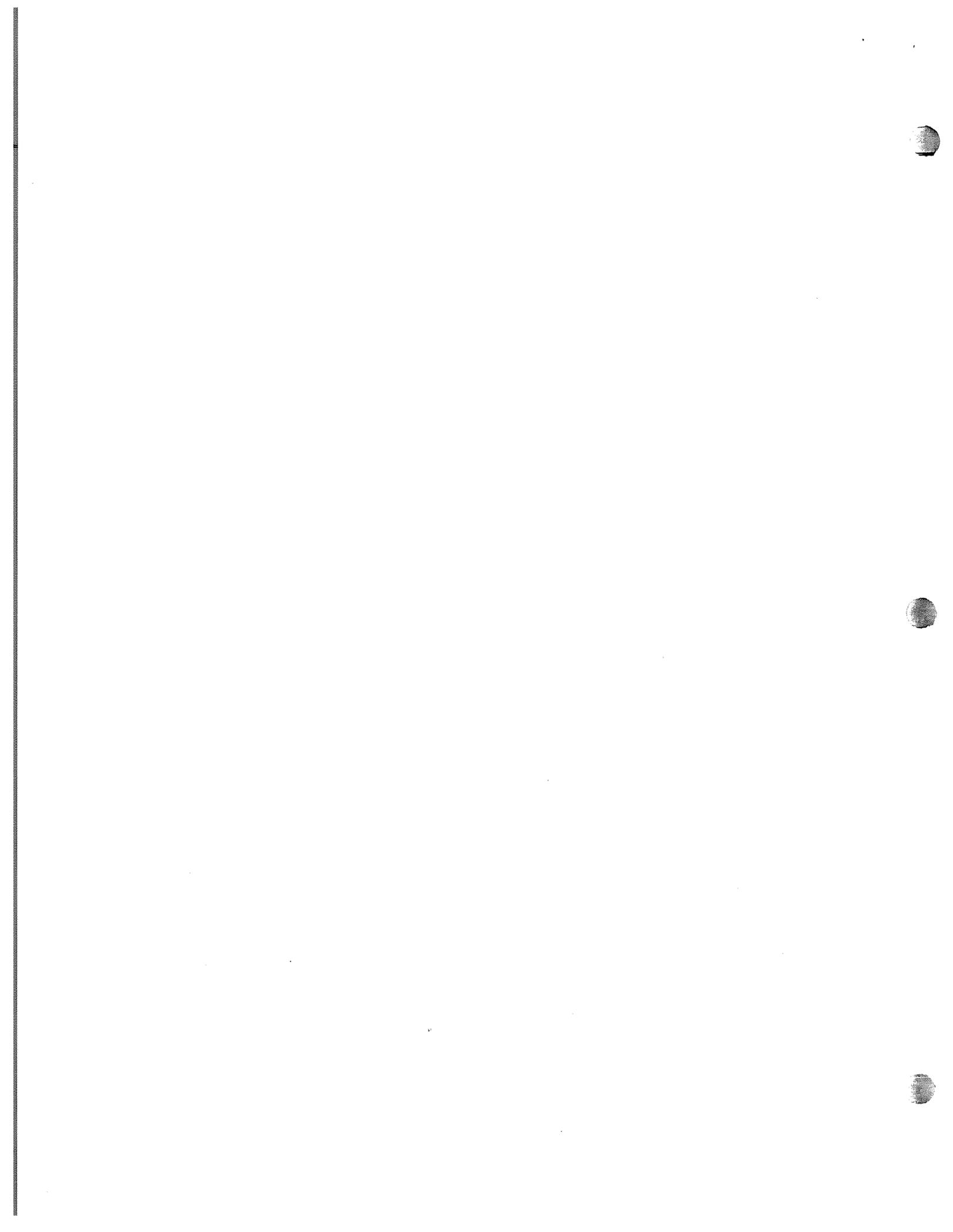
GALESTON COUNTY
 61ST STREET BOAT RAMP
 PLANNING PLAN

DATE: JANUARY 2014
 DRAWN BY: [Name]
 CHECKED BY: [Name]
 APPROVED BY: [Name]

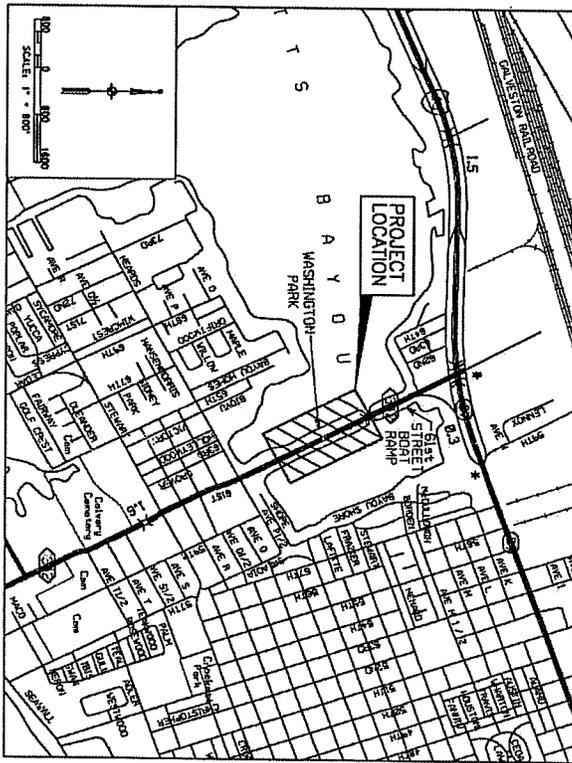
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 10. EXISTING PAVEMENT SHALL BE REPAIRED TO MATCH ADJACENT PAVEMENT.







**GALVESTON COUNTY
DEPARTMENT OF PARKS & SENIOR SERVICES
PLANS FOR CONSTRUCTION OF
Washington Park
Galveston, Texas**



AECOM
10000 DALLAS STREET, SUITE 1000
DALLAS, TEXAS 75243-1000
PHONE: 214.645.5000
FAX: 214.645.5001
WWW.AECOM.COM

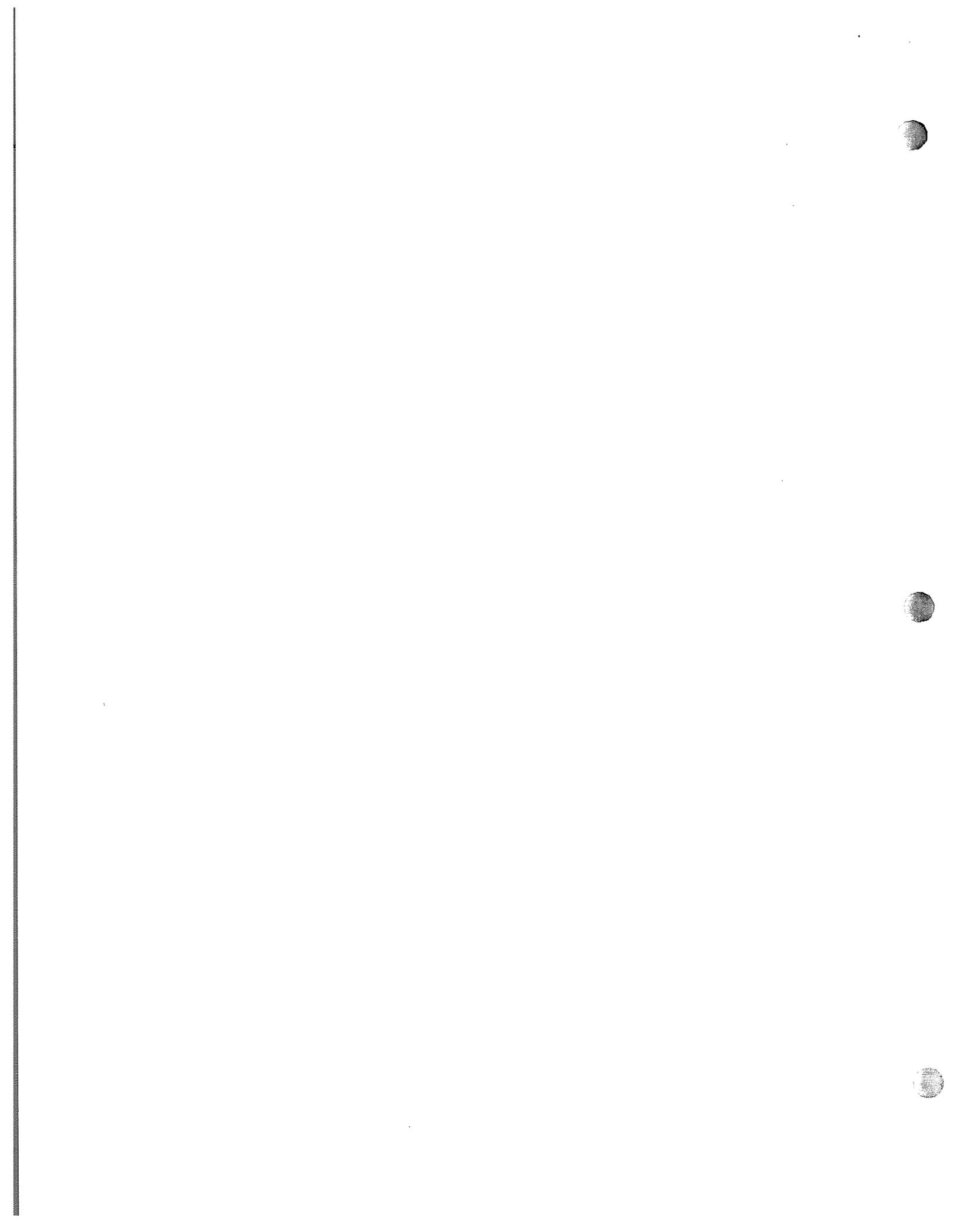
PROJECT NO. 60073413
JANUARY 2010

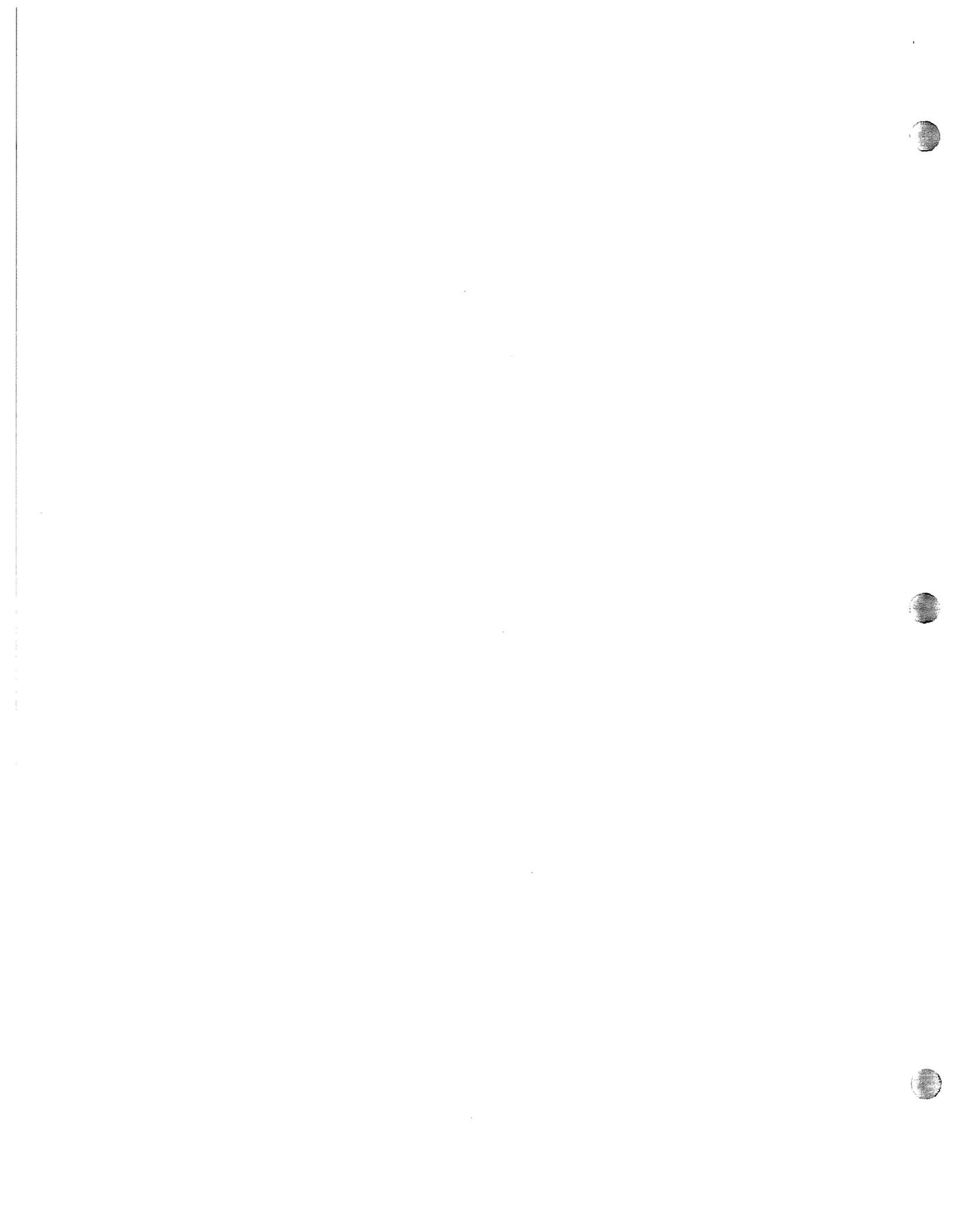


INDEX OF DRAWINGS

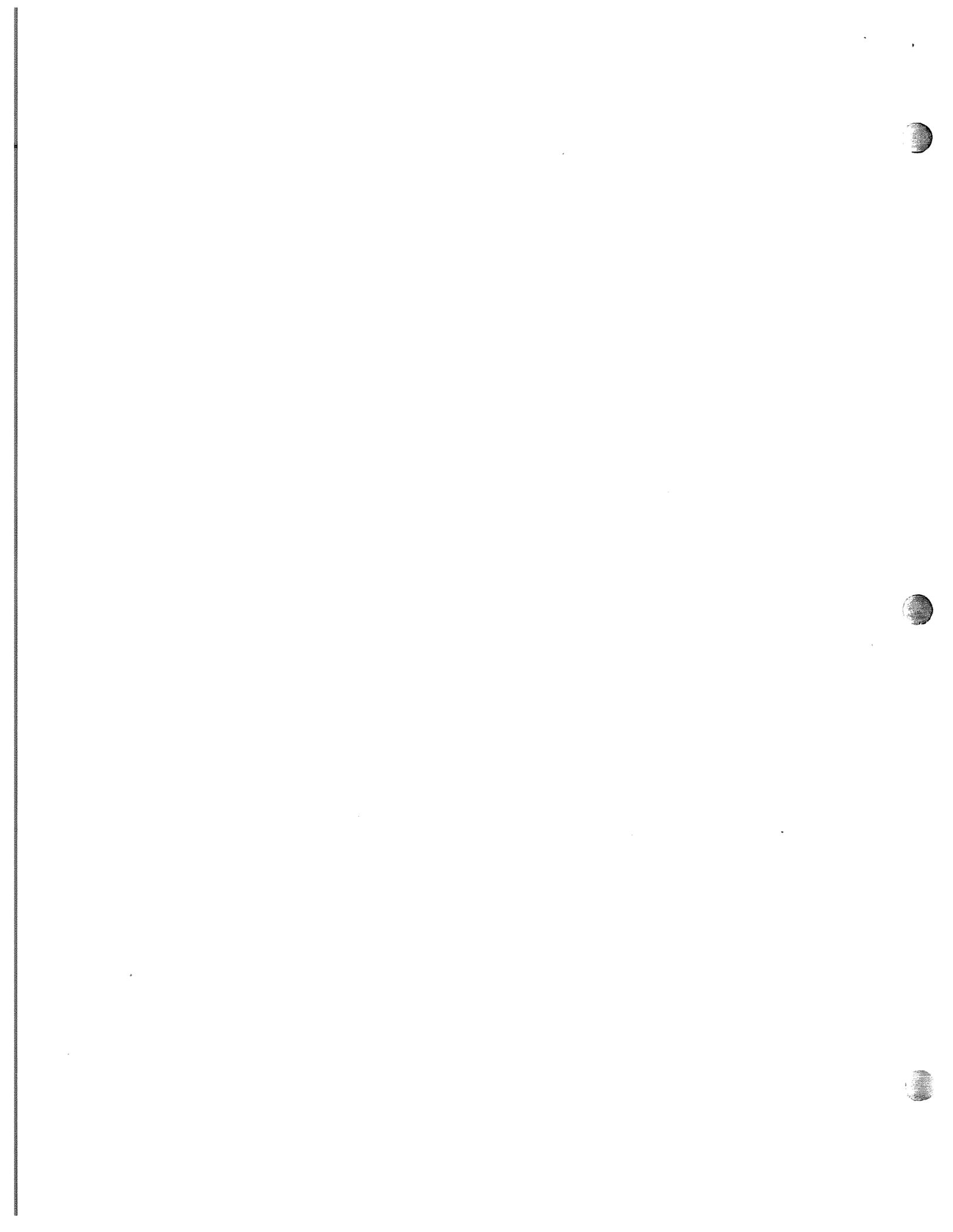
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3 OF 20	GENERAL CONTRACT
4 OF 20	EXHIBIT AND PRELIMINARY LAYOUT
5 OF 20	PLANS AND GENERAL LAYOUT
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28 OF 20	PROPOSED, EXISTING, AND RECONSTRUCTION SOCIAL SHEET 23 OF 13
29 OF 20	PROPOSED, EXISTING, AND RECONSTRUCTION SOCIAL SHEET 24 OF 13
30 OF 20	PROPOSED, EXISTING, AND RECONSTRUCTION SOCIAL SHEET 25 OF 13

NO.	DATE	BY	DESCRIPTION
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2			
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5			











COUNTY OF GALVESTON

SPECIFICATIONS AND CONTRACT DOCUMENTS

LEE & JOE JAMAIL BAY PARK

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COUNTY OF GALVESTON
SPECIFICATIONS AND CONTRACT DOCUMENTS

LEE & JOE JAMAIL BAY PARK



Kristin Landry 4-28-15

Kristin L. Landry, P.E.
AECOM Technical Services, Inc.
TBPE Reg. No. F-3580

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SECTION II	Bid Proposal Contract Award
SECTION III	Special Terms and Conditions Wage Rates & AIA Forms
SECTION IV	General Terms and Conditions Debarment Acknowledgement Form
SECTION V	Specifications
SECTION VI	Plans

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SECTION I

Invitation to Bid

General Provisions

Vendor Qualification Packet

Instructions to Bidders

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ITB #B151017
OPEN: 06/04/2015
TIME: 2:00 P.M.

INVITATION TO BID LEE & JOE JAMAIL BAY PARK GALVESTON COUNTY, TEXAS

Sealed bids in **sets of five (5), one (1) original and four (4) copies** will be received in the office of the County Purchasing Agent until **2:00 P.M. CST, on 06/04/2015** and opened immediately in that office in the presence of the Galveston County Auditor and the Purchasing Agent. Sealed bids are to be delivered to Rufus G. Crowder, CPPO CPPB, Galveston County Purchasing Agent at the Galveston County Courthouse, 722 Moody (21st Street), Floor 5, Purchasing, Galveston, Texas 77550, (409) 770-5372. **The time stamp clock located in the Purchasing Agent's office shall serve as the official time keeping piece for this solicitation process. Any bid received after 2:00 P.M. CST on the specified date will be returned unopened.**

Purpose: Galveston County has heretofore developed plans and specifications dated April 2015, prepared by AECOM Technical Services, Inc., for the construction of the Lee & Joe Jamail Bay Park in the City of Galveston. Included in the package are construction plans for the 61st Street Boat Ramp, Washington Park, and the 61st Street Pedestrian Bridge. These plans include paving, drainage, structural, electrical, and landscaping work to be completed upon being awarded the project.

All proposals must be marked on the outside of the envelope:

ITB #B151017

LEE & JOE JAMAIL BAY PARK

Bidders name, return address, and the enclosed label should be prominently displayed on the bid package for identification purposes.

Specifications can be obtained on application at the office of the Galveston County Purchasing Agent, located in the Galveston County Courthouse, 722 Moody, (21st Street), Floor 5, Purchasing, Galveston, Texas 77550, or by visiting the Galveston County website @ <http://www.galvestoncountytexas.gov/pu/Pages/BidListing.aspx>.

Bid prices shall be either lump sum or unit prices as shown on the proposal sheet, if applicable. The net price will be delivered to Galveston County, including all freight, shipping, and license fees. Galveston County is tax exempt and no taxes should be included in your proposal pricing.

Upon satisfaction of contractual terms (e.g., goods delivered in promised condition, services rendered as agreed, etc.), contractor shall be paid via Galveston County's normal accounts payable process.

Bonding Requirements:

- **BID GUARANTEE:** Evidencing its firm commitment to engage in the contract if Bidder is selected for award of contract, each Bidder is required to furnish with their bid a Cashier's Check, or an acceptable Bidder's Bond in the amount of five percent (5%) of the total contract price. The Bidder's Bond must be executed with a surety company authorized to do business in the State of Texas. Failure to furnish the bid guarantee in the proper form and amount, by the time set for opening of bids may be cause or rejection of the bid.

- **PERFORMANCE AND PAYMENT BONDS**

Successful proposer, before beginning work, shall execute a performance bond and a payment bond, each of which must be in the amount of the contract. The required payment and performance bonds must each be executed by a corporate surety in accordance with Section 1, Chapter 87, Acts of the 56th Legislature, Regular Session, 1959 (Article 7.19-1, Vernon's Texas Insurance Code).

The Galveston County Commissioners' Court reserves the right to waive any informality and to reject any and all bids and to accept the bid or bids which, in its opinion, is most advantageous to Galveston County with total respect the governing laws.

Rufus G. Crowder, CPPO CPPB
Purchasing Agent
Galveston County

**LEE & JOE JAMAIL BAY PARK
GALVESTON COUNTY, TEXAS**

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GALVESTON COUNTY, TEXAS**

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GALVESTON COUNTY, TEXAS**

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**GENERAL PROVISIONS
LEE & JOE JAMAIL BAY PARK
GALVESTON COUNTY, TEXAS**

1. BID PACKAGE:

The Invitation to Bid, general and special provisions, drawings, specifications/line item details, contract documents and the Bid sheet are all part of the Bid package. BIDs must be submitted in sets of five (5), one (1) original and four (4) copies on the forms provided by the County if provided, including the Bid sheets completed in their entirety and signed by an authorized representative by original signature. Failure to complete and sign the Bid sheets/contract page(s) may disqualify the Bid from being considered by the Commissioners' Court. Any individual signing on behalf of the Bidder expressly affirms that he or she is duly authorized to tender this Bid and to sign the Bid sheet/contract under the terms and conditions in this bid. Bidder further understands that the signing of the contract shall be of no effect unless subsequently awarded and the contract properly executed by the Commissioners' Court. All figures must be written in ink or typed. Figures written in pencil or with erasures are not acceptable. However, mistakes may be crossed out, corrections inserted, and initialed in ink by the individual signing the bid. If there are discrepancies between unit prices quoted and extensions, the unit price shall prevail. Each Bidder is required to thoroughly review this entire Bid package to familiarize themselves with the Bid procedures, the plans and specifications for the requested work, as well as the terms, and conditions of the contract the successful Bidder will execute with the County.

2. BIDDER'S RESPONSIBILITY

The Bidder must affirmatively demonstrate its responsibility. The Bidder must also meet the following minimum requirements:

- A. have adequate financial resources or the ability to obtain such resources as required;
- B. be able to comply with all federal, state, and local laws, rules, regulations, ordinances and orders regarding this Request for Bid;
- C. have a satisfactory record of performance;
- D. have a satisfactory record of integrity and ethics;
- E. and be otherwise qualified and eligible to receive an award.

The criteria utilized for determining responsibility of Bidder(s) includes, but is not limited to, the Bidder's experience, skill, ability, business judgment, financial capacity, integrity, honesty, possession of the necessary facilities or equipment, previous performance, reputation, promptness, and any other factor deemed relevant by the County. The Bidders shall furnish any information requested by the County in order for the County to determine whether a Bidder is responsible.

3. TIME FOR RECEIVING BIDS:

Bids received prior to the submission deadline will be maintained unopened until the specified time for opening. If the Bidder fails to identify the Bid Number on the outside of the envelope as required, the Purchasing Agent will open the envelope for the sole purpose of identifying the Bid number for which the submission was made. The envelope will then be resealed. No liability will attach to a County office or employee for the premature opening of a bid. If you do not submit a bid, return this Invitation to Bid and state reason, otherwise your name may be removed from the Purchasing Agent's mailing list.

4. BID OPENING:

The names of the bidders and the pricing will be read aloud at the bid opening. Sealed bids will be received in the office of the County Purchasing Agent and opened immediately in that office in the presence of the County Auditor and the Purchasing Agent. No Bid may be withdrawn for a period of sixty (60) calendar days of the Bid opening date.

5. COMMISSIONERS' COURT:

No contract is binding on the County until it is properly placed on the Commissioners' Court agenda, approved in open Court, authorized to be executed by the County Judge, and fully executed by both parties.

**GENERAL PROVISIONS
LEE & JOE JAMAIL BAY PARK
GALVESTON COUNTY, TEXAS**

Department heads and elected officials are not authorized to enter into any type of agreement or contract on behalf of the County. Only the Commissioners' Court acting as a body may enter into a contract on behalf of and contractually bind the County. Additionally, department heads and elected officials are not authorized to agree to any type of supplemental agreements or contracts for goods or services. Supplemental agreements are subject to review by the County Legal Department prior to being accepted and signed by the County's authorized representative.

6. REJECTION OF BIDS/DISQUALIFICATION:

Galveston County, acting through its Commissioners' Court, reserves the right to :

- reject any and all Bids in whole or in part received by reason of this request for bid;
- to waive any informality in the Bids received;
- to disregard the Bid of any Bidder determined to be not responsible and/or;
- to discontinue its efforts for any reason under this Bid package at any time prior to actual execution of contract by the County.

Bidders may be disqualified and rejection of Bids may be recommended to the Commissioners' Court for any of (but not limited to) the following causes:

- A. Lack of signature by an authorized representative on the Bid form(s);
- B. Failure to properly complete the Bid;
- C. Bids that do not meet the mandatory requirements; and/or;
- D. Evidence of collusion among Bidders.
- E. Failure to use the Bid form(s) furnished by the County.

7. RESTRICTIVE OR AMBIGUOUS SPECIFICATIONS:

It is the responsibility of the prospective Bidder to review the entire Invitation to Bid packet and to notify the Purchasing Department if the specifications are formulated in a manner that would restrict competition or appear ambiguous. Any protest or question(s) regarding the specifications or Bid procedures must be received in the Purchasing Department not less than seventy-two (72) hours prior to the time set for Bid opening. Vendors are to submit Bid as specified herein or propose an approved equal.

8. SUBSTITUTES/DESCRIPTION OF MATERIALS AND EQUIPMENT:

Any brand name or manufacturer reference used herein is intended to be descriptive and not restrictive, unless otherwise noted, and is used to indicate the type and quality of material. The term "or equal" if used, identifies commercially produced items that have the essential performance and salient characteristics of the brand name stated in the item description. All supplies, material, or equipment shall be new and of the most suitable grade for the purpose intended. It is not the County's intent to discriminate against any materials or equipment of equal merit to those specified. However, if Bidder desires to use any substitutions, prior written approval must be obtained from the County Purchasing Agent and sufficiently in advance such that an addendum may be issued. All material supplied must be one hundred percent (100%) asbestos free. Bidder, by submission of its bid, certifies that if awarded any portion of this procurement, the bidder will supply only material and equipment that is 100% asbestos free.

9. EXCEPTIONS TO BID:

The Bidder will list on a separate sheet of paper any exceptions to the conditions of the bid. This sheet will be labeled, "Exceptions to Bid Conditions", and will be attached to the bid. If no exceptions are stated, it will be understood that all general and specific conditions will be complied with, without exception.

The Bidder must specify in its Bid any alternatives it wishes to propose for consideration by the County. Each alternative should be sufficiently described and labeled within the Bid and should indicate its possible or actual advantage to the program being offered.

**GENERAL PROVISIONS
LEE & JOE JAMAIL BAY PARK
GALVESTON COUNTY, TEXAS**

The County reserves the right to offer these alternatives to other Bidders.

10. PRICING:

Bids will be either lump sum or unit prices as shown on the Bid sheet. The net priced items will be delivered to Galveston County, including all freight or shipping charges. Cash discount must be shown on bid, otherwise prices will be considered net. Unless prices and all information requested are complete, Bid may be disregarded and given no consideration. In case of default by the contractor, the County of Galveston may procure the articles or services from other sources and may deduct from any monies due, or that may thereafter become due to the contractor, the difference between the price named in the contract of purchase order and the actual cost thereof to the County of Galveston. Prices paid by the County of Galveston shall be considered the prevailing market price at the time such purchase is made. Periods of performance may be extended if the facts as to the cause of delay justify such extension in the opinion of the Purchasing Agent and the Commissioners' Court.

11. PROCUREMENT CARD PROGRAM:

The County of Galveston participates in a Procurement Card (P-Card) program that allows payments made to a vendor by credit card. This method normally results in substantially faster bill payments, sometimes within three (3) to five (5) days of the actual transaction date. All transaction fees from the card provider are to be paid by the successful contractor. If your company will accept payment via credit card (Visa, MasterCard), please notate this in your Bid submittal.

12. PASS THROUGH COST ADJUSTMENTS:

Except in instances of extreme extenuating circumstances Contractor prices shall remain firm throughout the Contract period and any renewals. Examples of extreme extenuating circumstances include such situations as a nationwide rail strike, oil shortage or oil embargo.

In extreme extenuating circumstances, Contractors may be allowed to temporarily "pass through" additional costs they are forced to incur through no fault of their own. A request for a pass through cost increase will not be considered unless a Contractor's cost for his product exceeds 10% over the original cost for the product. Also, the increase in cost must be nationwide and consistent for a minimum period of sixty (60) days. Costs that historically are anticipated to rise over a period of time (for example only, such as wages or insurance costs) do not qualify for pass through. If a Contractor thinks he will be asking for a pass through cost adjustment during the term of the contract, then the original cost of the product to Contractor must be stated in Contractor's original bid.

A request for a pass through cost does not guarantee that one will be granted. Contractors must submit such information on each request as is required by the County Purchasing Agent. The County Purchasing Agent will review each request on a case-by-case basis and determine the appropriateness of each request as well as amount and duration of increase. Contractors will not be permitted any additional compensation for mark-ups or profits based on the increase in price. Rather, such additional compensation will be limited to the actual increase in original cost to the Contractor as such increase is reflected by the original cost stated in the bid. But in no event will the amount of additional compensation exceed 25% increase in Contractor's original cost for his product as such cost is reflected in Contractor's original Bid or the duration exceed a period of sixty (60) days. In addition, should, during the period of the pass through, cost return to normal or decrease to below pre pass through prices, appropriate downward adjustments will be made. No more than one pass through adjustment will be permitted per year.

13. MODIFICATION OF BIDS:

A Bidder may modify a bid by letter at any time prior to the submission deadline for receipt of Bids. Modification requests must be received prior to the submission deadline. Modifications made before opening time must be initialed by Bidder guaranteeing authenticity. Bids may not be amended or altered after the official opening with the single exception that any product literature and/or supporting data required by the actual specifications, if any, will be accepted at any time prior to the Commissioners' Court considering of same.

**GENERAL PROVISIONS
LEE & JOE JAMAIL BAY PARK
GALVESTON COUNTY, TEXAS**

14. SIGNATURE OF BIDS:

Each Bid shall give the complete mailing address of the Bidder and be signed by an authorized representative by original signature with the authorized representative's name and legal title typed below the signature line. Each bid shall include the Bidder's Federal Employer Identification Number (FEIN). Failure to sign the Contract page(s) and bid response sheets may disqualify the bid from being considered by the County. The person signing on behalf of the Bidder expressly affirms that the person is duly authorized to tender the bid and to sign the bid sheets and contract under the terms and conditions of this Invitation to Bid and to bind the Bidder thereto and further understands that the signing of the contract shall be of no effect until it is properly placed on the Commissioners' Court agenda, approved in open Court, authorized to be executed by the County Judge, and fully executed by both parties.

15. AWARD OF BIDS:

The award will be made to the responsive, responsible Bidder whose bid is determined to be the best evaluated, lowest cost offer demonstrating the best ability to fulfill the requirements set forth in this Invitation to Bid. **The proposed cost to the County will be considered firm and cannot be altered after the submission deadline, unless the County invokes its right to request a best and final offer.**

Each Bidder, by submitting a bid, agrees that if their bid is accepted by the Commissioners' Court, such Bidder will furnish all items and services upon which prices have been tendered and upon the terms and conditions in this bid and contract.

The contractor shall commence work only after the transmittal of a fully executed contract and after receiving written notification to proceed from the County Purchasing Agent. The contractor will perform all services indicated in the bid in compliance with this contract.

Neither department heads nor elected officials are authorized to sign any binding contracts or agreements prior to being properly placed on the Commissioners' Court agenda and approved in open court. Department heads and other elected officials are not authorized to enter into any type of agreement or contract on behalf of Galveston County. Only the Commissioners' Court, acting as a body, may enter into a contract on behalf of the County. Additionally, department heads and other elected officials are not authorized to agree to any type of supplemental agreements or contracts for goods or services. Supplemental agreements are subject to review by the County Legal Department prior to being signed by the County's authorized representatives.

The County of Galveston reserves the right to accept bids on individual items listed, or group items, or on the bid as a whole; to reject any and all bids; to waive any informality in the bids; and to accept the bid that appears to be in the best interest of the County. The selection process may, however, include a request for additional information or an oral presentation to support the written bid.

The County reserves the right to reject any or all Bids in whole or in part received by reason of this Invitation to Bid and may discontinue its efforts under this Invitation to Bid for any reason or no reason or solely for the County's convenience at any time prior to actual execution of the contract by the County.

A Bidder whose bid does not meet the mandatory requirements set forth in this Invitation to Bid will be considered non-compliant.

The invitation to submit a bid which appears in the newspaper, or other authorized advertising mediums, these general provisions, the specifications which follow, the Bid sheets, and any addenda issued are all considered part of the Bid.

Each Bidder, by submitting a bid, agrees that if its bid is accepted by the Commissioners' Court, such Bidder will furnish all items and services upon the terms and conditions in this Invitation to Bid and the resultant contract.

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Notice of contract award will be made within ninety (90) days of opening of Bids to the lowest responsive and responsible contractor, whose bid complies with all the requirements in the Invitation to Bid.

Contractor shall submit to the County, for approval, within ten (10) days from notice of contract award, all Certificates of Insurance evidencing the required coverage as described under Insurance in the schedule of the Invitation to Bid.

The contractor shall not commence work under these terms and conditions of the contract until all required and applicable Certificates of Insurance, Performance and Payment Bonds, and Irrevocable Letters of Credit have been approved by the County of Galveston and the Contractor has received notice to proceed in writing and an executed copy of the contract from the County Purchasing Agent.

16. DISPUTE AFTER AWARD/PROTEST:

Any actual or prospective Bidder who is allegedly aggrieved in connection with the solicitation of this Invitation to Bid or award of a contract resulting therefrom may protest. The protest shall be submitted in writing to the Purchasing Agent within seven (7) calendar days after such aggrieved person knows of or should have known of the facts giving rise thereto. If the protest is not resolved by mutual agreement, the Purchasing Agent will promptly issue a decision in writing to the protestant. If the protestant wishes to appeal the decision rendered by the Purchasing Agent, such appeal must be made to the Commissioners' Court through the Purchasing Agent. The decision of the Commissioners' Court will be final. The Commissioners' Court need not consider protests unless this procedure is followed.

17. PUBLIC INFORMATION ACT:

The parties agree that the County is a governmental body for purposes of the Public Information Act, codified as Chapter 552 of the Texas Government Code and as such is required to release information in accordance with the Public Information Act. Bidder agrees that it has **clearly and conspicuously** marked any information that it considers to be confidential, proprietary, and/or trade secret in its Bid. County agrees to provide notice to Bidder in accordance with the Public Information Act in the event the County receives a request for information under the Public Information Act for information that the Bidder has marked as confidential, proprietary, and/or trade secret.

18. BIDDER'S EMAIL ADDRESSES:

Notwithstanding the foregoing Section 17, Bidder acknowledges and agrees that the confidentiality of any and all email addresses it uses or discloses in communicating with the County are open to the public in accordance with Section 552.137 of the Government Code and consents to the release of its email addresses.

19. RESULTANT CONTRACT:

Bidder shall correctly and fully execute the resultant contract first. Afterwards, the contract shall be set for consideration by the Commissioners' Court. If the Commissioners' Court authorizes the execution of the contract, the resultant contract shall become effective upon the Commissioners' Court execution of same. Contract documents shall consist of the contract, the general and special provisions, the drawings, bid package (including best and final offer(s) if such is utilized), any addenda issued, and any change orders issued during the work.

If applicable to the attached, Bidder must sign three (3) original contracts and return with their bid submittal.

Bidder should submit a proposed contract with its Bid or its sample material terms and conditions.

20. CONTRACT TERM:

The term of the resultant contract will begin on the date of execution by the Commissioners' Court and will terminate on the date specified in the resultant contract unless terminated earlier as herein set forth.

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21. TERMINATION FOR DEFAULT:

Failure of either party in the performance of any of the provisions of this contract shall constitute a breach of contract, in which case either party may require corrective action within ten (10) days from date of receipt of written notice citing the exact nature of such breach. Failure of the party being notified to take corrective action within the prescribed ten (10) days, or failure to provide written reply of why no breach has occurred, shall constitute a Default of Contract.

All notices relating to default by Bidder of the provisions of the contract shall be issued by County by its Legal Department, and all replies shall be made in writing to the County Legal Department. Notices issued by or issued to anyone other than the County Legal Department shall be null and void and shall be considered as not having been issued or received.

Galveston County reserves the right to enforce the performance of this contract in any manner prescribed by law in the event of breach or default of this contract, and may contract with another party, with or without solicitation of bids or further negotiations. At a minimum, Bidder shall be required to pay any difference in service or materials, should it become necessary to contract with another source, plus reasonable administrative costs and attorney fees.

In the event of Termination for Default, Galveston County, its agents or representatives shall not be liable for loss of any profits anticipated to be made by Bidder.

In addition to the remedies stated herein, the County has the right to pursue other remedies permitted by law or in equity.

No waiver by either party of any event of default under this agreement shall operate as a waiver of any subsequent default under the terms of this agreement.

County reserves the right to terminate this contract immediately in the event Bidder:

- A. Fails to meet delivery or completion schedules; and/or
- B. Fails to otherwise perform in accordance with the accepted Bid and the contract.

22. TERMINATION FOR CONVENIENCE:

County may terminate this contract upon at least thirty (30) calendar days prior written notice for its convenience or for any reason deemed by the County to serve the public interest. County may terminate this contract upon thirty (30) calendar days prior written notice for any reason resulting from any governmental law, order, ordinance, regulations, or court order. In no event shall County be liable for loss of any profits anticipated to be made hereunder by Bidder should this contract be terminated early.

23. FORCE MAJEURE:

If by reason of Force Majeure either Party shall be rendered unable, wholly or in part, to carry out its responsibilities under this contract by any occurrence by reason of Force Majeure, then the Party unable to carry out its responsibility shall give the other Party notice and full particulars of such Force Majeure in writing within a reasonable time after the occurrence of the event, and such notice shall suspend the Party's responsibility for the continuance of the Force Majeure claimed, but for no longer period.

Force Majeure means acts of God, floods, hurricanes, tropical storms, tornadoes, earthquakes, or other natural disasters, acts of a public enemy, acts of terrorism, sovereign conduct, riots, civil commotion, strikes or lockouts, and other causes that are not occasioned by either Party's conduct which by the exercise of due diligence the Party is unable to overcome and which substantially interferes with operations.

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24. ESTIMATED QUANTITIES:

Any reference to quantities shown in the Invitation to Bid is an estimate only. Since the exact quantities cannot be predetermined, the County reserves the right to adjust quantities as deemed necessary to meet its requirements.

25. CONTRACTOR INVESTIGATION:

Before submitting a bid, each Bidder shall make all investigations and examinations necessary to ascertain all site conditions and requirements affecting the full performance of the contract and to verify any representations made by the County upon which the contractor will rely. If the contractor receives an award as a result of its bid submission, failure to have made such investigations and examinations will in no way relieve the contractor from its obligation to comply in every detail with all provisions and requirements of the contract, nor will a plea of ignorance of such conditions and requirements be accepted as a basis for any claim whatsoever by the contractor for additional compensation.

26. NO COMMITMENT BY COUNTY OF GALVESTON:

This Invitation to Bid does not commit the County of Galveston to award any costs or pay any costs, or to award any contract, or to pay any costs associated with or incurred in the preparation of a bid in response to this Invitation to Bid and does not commit the County of Galveston to procure or contract for services or supplies.

27. BID COSTS BORNE BY BIDDER:

Galveston County shall not be liable for any costs incurred by Bidder in preparation, production, or submission of a bid and shall not be liable for any work performed by Bidder prior to issuance of fully executed contract and properly issued notice to proceed. Galveston County shall not be liable for any costs incurred by Bidder by reason of attending a pre-Bid conference. Galveston County shall not be liable for any costs incurred by Bidder by reason of the County invoking use of best and final offers.

28. SINGLE BID RESPONSE:

If only one bid is received in response to the Invitation to Bid, a detailed cost bid may be requested of the single contractor. A cost/price analysis and evaluation and/or audit may be performed of the cost bid in order to determine if the price is fair and reasonable.

29. CHANGES IN SPECIFICATIONS:

If it becomes necessary to revise any part of this bid, a written notice of such revision will be provided to all Bidders in the form of addenda. The County is not bound by any oral representations, clarifications, or changes made in the written specifications by the County's employees, unless such clarification or change is provided to Bidders in a written addendum from the Purchasing Agent.

The County of Galveston reserves the right to revise or amend the specifications up to the time set for opening of bids. Such revisions and amendments, if any, shall be announced by amendments to the solicitation. Copies of such amendments shall be furnished to all prospective contractors in the form of an addendum. Prospective contractors are defined as those contractors listed on the County's Invitation to Bid list for this material/service or those who have obtained documents subsequent to the advertisement. If revisions and amendments require changes in quantities or prices proposed, or both, the date set for opening of bids may be postponed by such number of days as in the opinion of the County shall enable contractors to revise their bids. In any case, the bid opening shall be at least five (5) working days after the last amendment, and the amendment shall include an announcement of the new date if applicable, for the opening of bids.

30. BID IDEAS AND CONCEPTS:

The County reserves to itself the right to adopt or use for its benefit, any concept, plan, or idea contained in any bid.

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31. BID DISCLOSURES:

The names of those who submitted bids will not be made public information unless in conformity with the County Purchasing Act. No pricing or staffing information will be released. Bidders are requested to withhold all inquiries regarding their bid or other submissions until after an award is made. No communication is to be had with any County employee or official, other than the County Purchasing Agent, regarding whether a bid was received. Violations of this provision may result in the rejection of a bid.

32. WITHDRAWAL OF BID:

Bidders may request withdrawal of a sealed bid prior to the scheduled bid opening time provided the request for withdrawal is submitted to the Purchasing Agent in writing. No bids may be withdrawn for a period of sixty (60) calendar days after opening of the bids.

33. INDEMNIFICATION:

The contractor shall agree to assume all risks and responsibility for, and agrees to indemnify, defend, and save harmless, the County of Galveston, its elected and appointed officials and department heads, and its agents and employees from and against all claims, demands, suits, actions, recoveries, judgments, and costs and expenses including reasonable attorney's fees for the defense thereof in connection therewith on account of the loss of life, property or injury or damage to the person which shall arise from contractor's operations under this contract, its use of County facilities and/or equipment or from any other breach on the part of the contractor, its employees, agents or any person(s), in or about the County's facilities with the expressed or implied consent of the County. Contractor shall pay any judgment with cost which may be obtained against Galveston County resulting from contractor's operations under this contract.

Contractor agrees to indemnify and hold the County harmless from all claims of subcontractors, laborers incurred in the performance of this contract. Contractor shall furnish satisfactory evidence that all obligations of this nature herein above designated have been paid, discharged or waived. If Contractor fails to do so, then the County reserves the right to pay unpaid bills of which County has written notice direct and withhold from Contractor's unpaid compensation a sum of money reasonably sufficient to liquidate any and all such lawful claims.

34. REQUIREMENT OF AND PROOF OF INSURANCE:

The successful Bidder shall furnish evidence of insurance to the County Purchasing Agent and shall maintain such insurance as required hereunder or as may be required in the Special Provisions or resultant contract, if different. Contractor shall obtain and thereafter continuously maintain in full force and effect, commercial general liability insurance, including but not limited to bodily injury, property damage, and contractual liability, with combined single limits as listed below or as may be required by State or Federal law, whichever is greater.

- A. For damages arising out of bodily injury to or death of one person in any one accident :
ONE HUNDRED THOUSAND AND NO/100 (\$100,000.00) DOLLARS.
- B. For damages arising out of bodily injury to or death of two or more persons in any one accident:
THREE HUNDRED THOUSAND AND NO/100 (\$300,000.00) DOLLARS.
- C. For any injury to or destruction of property in any one accident :
ONE HUNDRED THOUSAND AND NO/100 (\$100,000.00) DOLLARS.

Insurance shall be placed with insurers having an A.M. Best's rating of no less than A. Such insurance must be issued by a casualty company authorized to do business in the State of Texas, and in standard form approved by the Board of Insurance Commissioners of the State of Texas, with coverage provisions insuring the public from loss or damage that may arise to any person or property by reason of services rendered by Contractor.

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Galveston County shall be listed as the additional insured on policy certificates and shall be provided with no less than thirty (30) calendar days prior notice of any changes to the policy during the contractual period.

Certificates of Insurance, fully executed by a licensed representative of the insurance company written or countersigned by an authorized Texas state agency, shall be filed with the County Purchasing Agent within ten (10) business days of issuance of notification from the County Purchasing Agent to Bidder that the contract is being activated as written proof of such insurance and further provided that Bidder shall not commence work under this contract until it has obtained all insurance required herein, provided written proof as required herein, and received written notice to proceed issued from the County Purchasing Agent.

Proof of renewal/replacement coverage shall be provided upon expiration, termination, or cancellation of any policy. Said insurance shall not be cancelled, permitted to expire, or changed without thirty (30) days prior written notice to the County.

Insurance required herein shall be maintained in full force and effect during the life of this contract and shall be issued on an occurrence basis. Contractor shall require that any and all subcontractors that are not protected under the Contractor's own insurance policies take and maintain insurance of the same nature and in the same amounts as required of Contractor and provide written proof of such insurance to Contractor. Proof of renewed/replacement coverage shall be provided upon expiration, termination, or cancellation of any policy. Contractor shall not allow any subcontractor to commence work on the subcontract until such insurance required for the subcontractor has been obtained and approved.

Workers' Compensation Insurance: Successful Bidder shall carry in full force Workers' Compensation Insurance Policy(ies), if there is more than one employee, for all employees, including but not limited to full time, part time, and emergency employees employed by the successful Bidder. Current insurance certificates certifying that such policies as specified above are in full force and effect shall be furnished by successful Bidder to the County.

Insurance is to be placed with insurers having a Best rating of no less than A. The Bidder shall furnish the County with certificates of insurance and original endorsements affecting coverage required by these insurance clauses within ten (10) business days of receiving notification from the County Purchasing Agent that the contract is being activated. The certificates and endorsements for each insurance policy are to be signed by a person authorized by the insurer to bind coverage on its behalf. The Bidder shall be required to submit annual renewals for the term of this contract prior to expiration of any policy.

In addition to the remedies stated herein, the County has the right to pursue other remedies permitted by law or in equity.

The County agrees to provide Bidder with reasonable and timely notice of any claim, demand, or cause of action made or brought against the County arising out of or related to utilization of the property. Bidder shall have the right to defend any such claim, demand, or cause of action at its sole cost and expense and within its sole and exclusive discretion. The County agrees not to compromise or settle any claim or cause of action arising out of or related to the utilization of the property without the prior written consent of the Bidder.

In no event shall the County be liable for any damage to or destruction of any property belonging to the Bidder.

35. BID GUARANTEE:

Unless specified differently within the Special Provisions of this procurement, each Bidder shall be required to submit a bid guarantee with its proposal as required within this Section Evidencing its firm commitment to engage in contract if Bidder is selected for award of contract, each Bidder is required to furnish with their bid a Cashier's Check or an acceptable Bidder's Bond in the amount of five percent (5%) of the total contract price. If Bidder is using a bond,

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then the bidder's bond must be executed with a surety company authorized to do business in the State of Texas. Failure to furnish the bid guarantee in the proper form and amount, by the time set for opening of bids may be cause for rejection of the bid.

The Cashier's Check or Bidder Bond (as applicable) will be returned to each respective unsuccessful Bidder(s) subsequent to the Commissioners' Court award of contract, and shall be returned to the successful Bidder upon the completion and submission of all contract documents. Provided, however, that the Cashier's Check or Bidder Bond will be forfeited to the County as liquidated damages should successful Bidder fail to execute the contract within thirty (30) days after receiving notice of the acceptance of its bid.

36. PERFORMANCE AND PAYMENT BONDS:

Successful Bidder, before beginning work, shall execute a performance bond and a payment bond, each of which must be in the amount of the contract. The required payment and performance bonds must each be executed by a corporate surety in accordance with Section 1, Chapter 87, Acts of the 56th Legislature, Regular Session, 1959 (Article 7.19-1, Vernon's Texas Insurance Code).

The performance and payment bonds must clearly and prominently display on the bond or on an attachment to the bond:

- A. The name, mailing address, physical address, and telephone number, including the area code, of the surety company to which any notice of claim should be sent; or
- B. The toll-free telephone number maintained by the Texas Department of Insurance under Subchapter B, Chapter 521, Insurance Code, and a statement that the address of the surety company to which any notice of claim should be sent may be obtained from the Texas Department of Insurance by calling the toll free-telephone number.

The performance bond shall be solely for the protection of Galveston County, in the full amount of the contract, and conditioned on the faithful performance of the work in accordance with the plans, specifications, and contract documents. The payment bond is solely for the protection and use of payment bond beneficiaries who have a direct contractual relationship with the prime contractor or a subcontractor to supply public work labor or material, and in the amount of the contract.

The payment and performance bonds required to be furnished herein must be furnished before the contractor begins work and are a requirement for issuance of a Notice to Proceed. Such bonds must be furnished to the Galveston County Purchasing Agent within thirty (30) days after the date of signing of the contract or receiving notice from the Purchasing Agent that the contract has been fully executed. Failure to provide the required payment and performance bonds within the required business days shall constitute an event of default under this contract. Contractor shall not commence work until all applicable certificates of insurance, performance, and payment bonds have been received and approved by the County Purchasing Agent and the Contractor receives notice to proceed in writing that has been issued by the County Purchasing Agent.

Additionally, if this Invitation To Bid is for the award of a public works contract, then compliance with Chapter 2253 of the Texas Government Code, which is known as the McGregor Act, is mandatory. Performance and payment bonds are required to be furnished in accordance with Chapter 2253 of the Texas Government Code. Bidder should familiarize itself with the entire provisions of Chapter 2253 of the Texas Government Code.

37. PATENT AND COPYRIGHT PROTECTION:

The Bidder agrees at its sole expense to protect the County from claims involving infringement of patents or copyrights. **Bidder shall indemnify and save harmless the County of Galveston, its officers, employees, and**

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agents, from liability of any nature and kind whatsoever, including without limitation cost and expenses, for or on account of any copyrighted, patented or un-patented invention, process, or article manufactured or used in the performance of the contract, including its use by the County. Bidder also agrees that if Bidder is awarded this contract, that no work performed hereunder shall be subject to patent, copyright, or other intellectual property by Bidder.

38. CONFLICT OF INTEREST DISCLOSURE REPORTING:

Bidder may be required under Chapter 176 of the Texas Local Government Code to complete and file a conflict of interest questionnaire (CIQ Form). If so, the completed CIQ Form must be filed with the County Clerk of Galveston County, Texas.

If Bidder has an employment or other business relationship with an officer of Galveston County or with a family member of an officer of Galveston County that results in the officer or family member of the officer receiving taxable

income that exceeds \$2,500.00 during the preceding 12-month period, then Bidder **MUST** complete a CIQ Form and file the original of the CIQ Form with the County Clerk of Galveston County.

If Bidder has given an officer of Galveston County or a family member of an officer of Galveston County one or more gifts with an aggregate value of more than \$250.00 during the preceding 12-months, then Bidder **MUST** complete a CIQ Form and file the original of the CIQ Form with the County Clerk of Galveston County.

The Galveston County Clerk has offices at the following locations:

Galveston County Clerk

Galveston County Justice Center, Suite 2001
600 59th Street
Galveston, Texas 77551

Galveston County Clerk

North County Annex, 1st Floor
174 Calder Road
League City, Texas 77573

Again, if Bidder is required to file a CIQ Form, the original completed form is filed with the Galveston County Clerk (not the Purchasing Agent).

For Bidder's convenience, a blank CIQ Form is enclosed with this bid package. Blank CIQ Forms may also be obtained by visiting the Galveston County Clerk's website and/or the Purchasing Agent's website – both of these websites are linked from the Galveston County homepage, at <http://www.co.galveston.tx.us>.

As well, blank CIQ Forms may be obtained by visiting the Texas Ethics Commission website, specifically at http://www.ethics.state.tx.us/whatsnew/conflict_forms.htm.

Chapter 176 specifies deadlines for the filing of CIQ Forms (both initial filings and updated filings).

It is Bidder's sole responsibility to file a true and complete CIQ Form with the Galveston County Clerk if Bidder is required to file by the requirements of Chapter 176 of the Local Government Code. Bidder is advised that it is an offense to fail to comply with the disclosure reporting requirements dictated under Chapter 176 of the Texas Local Government Code.

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If you have questions about compliance with Chapter 176, please consult your own legal counsel. Compliance is the individual responsibility of each person, business, and agent who is subject to Chapter 176 of the Texas Local Government Code.

39. COMPETITIVENESS AND INTEGRITY:

To prevent biased evaluations and to preserve the competitiveness and integrity of such acquisition efforts, **Bidders are to direct all communications regarding this Bid to the Galveston County Purchasing Agent**, unless otherwise specifically noted.

Do not contact the requesting department. Attempts by offering firms to circumvent this requirement will be viewed negatively and may result in rejection of the offer of the firm found to be in non-compliance.

All questions regarding this Request for Bid must be submitted in writing to:

**Rufus Crowder, CPPO CPPB
Galveston County Purchasing Agent
722 Moody, (21st Street)
Fifth (5th) Floor, Purchasing
Galveston, Texas 77550 Fax: (409) 621-7997
E-mail: rufus.crowder@co.galveston.tx.us**

An authorized person from the submitting firm must sign all bids. This signature acknowledges that the Bidder has read the bid documents thoroughly before submitting a bid and will fulfill the obligations in accordance to the terms, conditions, and specifications.

Please carefully review this Invitation to Bid. It provides specific information necessary to aid participating firms in formulating a thorough response.

40. ENTIRETY OF AGREEMENT AND MODIFICATION:

This contract contains the entire agreement between the parties. Any prior agreement, promise, negotiation or representation not expressly set forth in this contract has no force or effect. Any subsequent modification to this contract must be in writing, signed by both parties. An official representative, employee, or agent of the County does not have the authority to modify or amend this contract except pursuant to specific authority to do so granted by the Galveston County Commissioners' Court.

41. NON-COLLUSION AFFIDAVIT:

Bidder certifies, by signing and submitting a bid, that the bid is not made in the interest of, or on behalf of, any undisclosed person, partnership, company, association, organization, or corporation; that the bid is genuine and not collusive or sham; that the contractor has not directly or indirectly induced or solicited another contractor to put in a false or sham bid, and has not directly or indirectly colluded, conspired, connived, or agreed with any contractor or anyone else to put in a sham Bid or that anyone shall refrain from bidding; that the contractor has not in any manner, directly or indirectly, sought by agreement, communications, or conference with anyone to fix the bid price of the contractor of any other bidder, or to fix any overhead, profit or cost element of the bid price, or that of any other contractor, or to secure any advantage against the public body awarding the contract or anyone interested in the proposed contract; that all statements contained in the bid are true; and further, that the contractor has not, directly or indirectly, submitted his or her bid price or any breakdown thereof, or the contents thereof, or divulged information or data relative thereto, or paid, and will not pay, any fee to any cooperation, partnership, company association, organization, Bid depository, or to any member or agent thereof to effectuate a collusive or sham bid.

A blank Non-Collusion Affidavit is included with this Bid packet. Bidder must enclose a truthful and fully executed original Non-Collusion Affidavit with the submission of its bid. This is a mandatory requirement of

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this Invitation to Bid. Failure to include the truthfully and fully executed Non-Collusion Affidavit in the submission of its Bid shall be considered non-compliance with the requirements of this Invitation to Bid by the Bidder and grounds for the rejection of Bidder's submission.

No negotiations, decisions, or actions shall be initiated by any company as a result of any verbal discussion with any County employee prior to the opening of responses to this Invitation to Bid.

No officer or employee of the County of Galveston, and no other public or elected official, or employee, who may exercise any function or responsibilities in the review or approval of this undertaking shall have any personal or financial interest, direct or indirect, in any contract or negotiation process thereof. The above compliance request will be part of all County of Galveston contracts for this service.

42. SOVEREIGN IMMUNITY:

The County specifically reserves any claim it may have to sovereign, qualified, or official immunity as a defense to any action arising in conjunction with this contract.

43. CONTROLLING LAW AND VENUE:

Bidder acknowledges and agrees that the contract is and shall be governed and construed by the laws of the State of Texas and that venue shall lie exclusively in Galveston County, Texas.

44. MERGERS, ACQUISITIONS:

The Bidder shall be required to notify the County of any potential for merger or acquisition of which there is knowledge at the time that a bid is submitted.

If subsequent to the award of any contract resulting from this Invitation to Bid the Bidder shall merge or be acquired by another firm, the following documents must be submitted to the County:

- A. Corporate resolutions prepared by the awarded Bidder and the new entity ratifying acceptance of the original contract, terms, conditions and prices;
- B. New Bidder's Federal Identification Number (FEIN) and;
- C. New Bidder's proposed operating plans.

Moreover, Bidder is required to provide the County with notice of any anticipated merger or acquisition as soon as Bidder has actual knowledge of the anticipated merger or acquisition. The New Bidder's proposed plan of operation must be submitted prior to merger to allow time for submission of such plan to the Commissioners' Court for its approval.

45. DELAYS:

The County reserves the right to delay the scheduled commencement date of the contract if it is to the advantage of the County. There shall be no additional costs attributed to these delays should any occur. Bidder agrees it will make no claims for damages, for damages for lost revenues, for damages caused by breach of contract with third parties, or any other claim by Bidder attributed to these delays, should any occur. In addition, Bidder agrees that any contract it enters into with any third party in anticipation of the commencement of the contract will contain a statement that the third party will similarly make no claim for damages based on delay of the scheduled commencement date of the contract.

46. ACCURACY OF DATA:

Information and data provided through this Invitation to Bid are believed to be reasonably accurate.

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47. SUBCONTRACTING/ASSIGNMENT:

Bidder shall not assign, sell, or otherwise transfer its contract in whole or in part without prior written permission of Commissioners' Court. Such consent, if granted, shall not relieve the Bidder of any of its responsibilities under this contract.

48. INDEPENDENT CONTRACTOR:

Bidder expressly acknowledges that it is an independent contractor. Nothing in this agreement is intended nor shall be construed to create an agency relationship, an employer/employee relationship, a joint venture relationship, or any other relationship allowing County to exercise control or direction over the manner or method by which Bidder or its subcontractors perform in providing the requirements stated in the Invitation to Bid.

49. MONITORING PERFORMANCE:

The County shall have the unfettered right to monitor and audit the Bidder's work in every respect. In this regard, the Bidder shall provide its full cooperation and insure the cooperation of its employees, agents, assigns, and subcontractors. Further, the Bidder shall make available for inspection and/or copying when requested, original data, records, and accounts relating to the Bidder's work and performance under this contract. In the event any such material is not held by the Bidder in its original form, a true copy shall be provided.

50. PROCUREMENT ETHICS:

Galveston County is committed to the highest ethical standards. Therefore, it is a serious breach of the public trust to subvert the public purchasing process by directing purchases to certain favored vendors, or to tamper with the competitive bidding process, whether it's done for kickbacks, friendship or any other reason. Since misuse of the purchasing power of a local government carries criminal penalties, and many such misuses are from a lack of clear guidelines about what constitutes an abuse of office, the Code of Ethics outlined below must be strictly followed.

Galveston County also requires ethical conduct from those who do business with the County.

CODE OF ETHICS – Statement of Purchasing Policy:

"Public employment is a public trust. It is the policy of Galveston County to promote and balance the objective of protecting the County's integrity and the objective of facilitating the recruitment and retention of personnel needed by Galveston County. Such policy is implemented by prescribing essential standards of ethical conduct without creating unnecessary obstacles to entering public office.

Public employees must discharge their duties impartially so as to assure fair competitive access to governmental procurement by responsible contractors. Moreover, they should conduct themselves in such a manner as to foster public confidence in the integrity of the Galveston County procurement organization.

To achieve the purpose of this Article, it is essential that those doing business with Galveston County also observe the ethical standards prescribed here."

General Ethical Standards:

It shall be a breach of ethics to attempt to realize personal gain through public employment with Galveston County by any conduct inconsistent with the proper discharge of the employee's duties.

It shall be a breach of ethics to attempt to influence any public employee of Galveston County to breach the standards of ethical conduct set forth in this code.

It shall be a breach of ethics for any employee of Galveston County to participate directly or indirectly in a procurement when the employee knows that:

**GENERAL PROVISIONS
LEE & JOE JAMAIL BAY PARK
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The employee or any member of the employee's immediate family, has a financial interest pertaining to the procurement;

A business or organization in which the employee or any member of the employee's immediate family, has a financial interest pertaining to the procurement; or

Any other person, business, or organization with which the employee or any member of the employee's immediate family is negotiating or has an arrangement concerning prospective employment is involved in the procurement.

Gratuities:

It shall be a breach of ethics for any person to offer, give, or agree to give any employee or former employee of Galveston County, or for any employee or former employee of Galveston County to solicit, demand, accept or agree to accept from another person, a gratuity or an offer of employment in connection with any decision, approval, disapproval, recommendation, preparation of any part of a program requirement or a purchase request, influencing the content of any specification or procurement standard, rendering of advice, investigation, auditing, or in any other advisory capacity in any proceeding or application, request for ruling, determination, claim or controversy, or other particular matter, pertaining to any program requirement or a contract or subcontract, or to any solicitation or bid thereof.

Kickbacks:

It shall be a breach of ethics for any payment, gratuity or offer of employment to be made by or on behalf of a subcontractor under a contract to the prime contractor or higher tier subcontractor or to any person associated therewith as an inducement for the award of a subcontract or order.

Contract Clause:

The prohibition against gratuities and kickbacks prescribed above shall be conspicuously set forth in every contract and solicitation by Galveston County.

Confidential Information:

It shall be a breach of ethics for any employee or former employee of Galveston County to knowingly use confidential information for actual or anticipated personal gain, or for the actual or anticipated gain of any other person.

Prohibition against Contingent Fees:

It shall be a breach of ethical standards for a person to be retained, or to retain a person, to solicit or secure a Galveston County contract upon an agreement or understanding for a commission, percentage, brokerage, or contingent fee, except for retention of bona fide employees or bona fide established commercial selling agencies for the purpose of securing business. Failure to abide by this section constitutes a breach of ethical standards.

Representation:

Bidder represents and warrants, by signing and submitting its bid, that it has not retained anyone in violation of this section prohibiting contingent fees.

Contract Clause:

The representation prescribed above shall be conspicuously set forth in every contract and solicitation thereof.

51. SUBJECT TO APPROPRIATION OF FUNDS:

State law prohibits the obligation and expenditure of public funds beyond the fiscal year for which a budget has been approved by the Commissioners' Court. Galveston County anticipates this to be an integral part of future budgets to be approved during the periods of this contract, except for unanticipated needs or events which may prevent such payments against this contract. However, Galveston County cannot guarantee the availability of funds, and enters into this contract

**GENERAL PROVISIONS
LEE & JOE JAMAIL BAY PARK
GALVESTON COUNTY, TEXAS**

only to the extent such funds are made available through appropriation (allocation) by the Commissioners' Court. This contract shall not be construed as creating any debt on behalf of the County of Galveston in violation of TEX. CONST. art. XI, § 7, and it is understood that all obligations of Galveston County are subject to the availability of funds.

52. NOTICE:

All notices or other communications required or permitted under this contract shall be in writing and shall be deemed to have been duly given if delivered personally in hand, transmitted by facsimile, or mailed certified mail, return receipt requested with proper postage affixed and addressed to the appropriate party at the following address or at such other address as may have been previously given in writing to the parties (Bidder shall provide its notice information with its Bid submission). If mailed, the notice shall be deemed delivered when actually received, or if earlier, on the third day following deposit in a United States Postal Service post office or receptacle, duly certified, return receipt requested, with proper postage affixed. If delivered in person, notice shall be deemed delivered when receipted for by, or actually received by, the receiving Party.

If transmitted by facsimile, notice shall be deemed delivered when receipt of such transmission is acknowledged.

To the County at:

Hon. Mark Henry,
County Judge of Galveston County
722 Moody (21st Street), Second (2nd) Floor
Galveston, Texas 77550
Fax: (409) 765-2653

With copies to:

Rufus Crowder, CPPO CPPB,
Galveston County Purchasing Agent
722 Moody (21st Street), Fifth (5th) Floor
Galveston, Texas 77550
Fax: (409) 621-7997

Robert Boemer, Director,
Galveston County Legal Department
722 Moody (21st Street), Fifth (5th) Floor
Galveston, Texas 77550
Fax: (409) 770-5560

To the Contractor at:

(Bidder to provide its contact name, address, and facsimile number for notice hereunder.)

53. NON-DISCRIMINATION:

- A. **Equal Employment Opportunity:** Bidder will not discriminate against any employee or applicant for employment because of race, color, religion, national origin, sex, disability, genetic information or veteran status. Bidder will take affirmative action to ensure that applicants are employed, and that employees are treated during employment, without regard to their race, color, religion, national origin, sex, disability, genetic information or veteran status. Such action shall include, but not be limited to, the following: employment; upgrading; demotion or transfer; recruitment or recruitment advertising; layoff or termination; rates of pay or other forms of compensation; and selection for training, including apprenticeship. Bidder agrees to post in conspicuous places, available to employees and applicants for employment, notices of employment.

Bidder will, in all solicitation or advertisements for employees placed by or on behalf of Bidder, state that all qualified applicants will receive consideration for employment without regard to race, color, religion, national origin, sex, disability, genetic information, or veteran status.

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Bidder will cause the foregoing provisions to be inserted in all subcontracts for any work covered by this Agreement so that such provisions will be binding upon each subcontractor, provided that the foregoing provisions shall not apply to contracts or subcontracts for standard commercial supplies or raw materials.

Bidder will include the provisions herein in every subcontract or purchase order unless exempted.

- B. **Drug Free Work Place Act:** Bidder shall comply with all applicable requirements of the Drug-Free Workplace Act of 1988 and implementing regulations.
- C. **Americans with Disabilities Act:** Bidder shall comply with all applicable provisions of the Americans with Disabilities Act and implementing regulations.
- D. **OSHA Regulations:** Bidder agrees to maintain and to display any applicable materials for its employees in accordance with OSHA regulations.
- E. **Compliance with Immigration Laws and Use of E-Verify:** Bidder agrees to comply with all requirements of the U.S. Immigration Reform and Control Act of 1986, as amended, and any implementing regulations thereto. Bidder further agrees to utilize the E-Verify system through the Department of Homeland Security on its employees. Bidder shall not employ unauthorized aliens, and shall not assign services to be performed to any supplier or subcontractor who are unauthorized aliens. If any personnel performing any services hereunder are discovered to be an unauthorized alien, then Bidder will immediately remove such personnel from performing services hereunder and shall replace such personnel with personnel who are not unauthorized alien(s).
- F. **State and Federal Law Compliance:** Bidder agrees to comply with all other State and Federal laws and regulations applicable to the provision of services under this contract.

54. RECORD RETENTION AND RIGHT TO AUDIT:

Bidder shall keep and maintain all records associated with this contract for a minimum of five (5) years from the close of the contract or as required by Federal or State law or regulation, whichever period is longer. If awarded this contract, Bidder shall allow the County reasonable access to the records in Bidder's possession, custody, or control that the County deems necessary to assist it in auditing the services, costs, and payments provided hereunder. If this contract involves the use of Federal or State funds, then Bidder shall also allow reasonable access to representatives of the Office of Inspector General, the General Accounting Office, and the other Federal and/or State agencies overseeing the funds that such entities deem necessary to facilitate review by such agencies and Bidder shall maintain fiscal records and supporting documentation for all expenditures in a manner that conforms with OMB Circular A-87 (relocated to 2 C.F.R. Part 225) and this contract.

55. TITLE VI ASSURANCES/TxDOT:

The County is subject to Title VI of the Civil Rights Act of 1964 and the Federal and State laws and regulations of the United States Department of Transportation and Texas Department of Transportation (TxDOT). Pursuant to these requirements, the County must have its contractors provide required assurances on compliance with non-discrimination by itself and its subcontractors. The Title VI Assurances within this Subsection are not exhaustive – whenever any Federal, State, or Local requirement requires additional clauses, this list shall not be construed as limiting. Contractor agrees as follows:

- A. **Compliance with Regulations:** The Contractor shall comply with the Regulations relative to nondiscrimination in Federally-assisted programs of the Department of Transportation (hereinafter, DOT) Title 49, Code of Federal Regulations, Part 21, as they may be amended from time to time (hereinafter referred to as the Regulations), which are incorporated herein by reference and made a part of this contract.

**GENERAL PROVISIONS
LEE & JOE JAMAIL BAY PARK
GALVESTON COUNTY, TEXAS**

- B. **Non-discrimination:** The Contractor, with regard to the work performed by it during the contract, shall not discriminate on the basis of race, color, national origin, religion, sex, age, disability or Veteran status in the selection and retention of subcontractors, including procurements of materials and leases of equipment. The Contractor shall not participate either directly or indirectly in the discrimination prohibited by Section 21.5 of the Regulations, including employment practices when the contract covers a program set forth in Appendix B of the Regulations.
- C. **Solicitations for Subcontractors, Including Procurement of Materials and Equipment:** In all solicitations either by competitive bidding or negotiation made by the Contractor for work to be performed under a subcontract, including procurement of materials or leases of equipment, each potential subcontractor or supplier shall be notified by the Contractor of the Contractor's obligations under this contract and the Regulations relative to nondiscrimination on the grounds of race, color, national origin, religion, sex, age, disability or Veteran status.
- D. **Information and Reports:** The Contractor shall provide all information and reports required by the Regulations or directives issued pursuant thereto, and shall permit access to its books, records, accounts, other sources of information and its facilities as may be determined by the Galveston County or the Texas Department of Transportation to be pertinent to ascertain compliance with such Regulations, orders and instructions. Where any information required of the Contractor is in the exclusive possession of another who fails or refuses to furnish this information the Contractor shall so certify to Galveston County or the Texas Department of Transportation as appropriate, and shall set forth what efforts it has made to obtain the information.
- E. **Sanctions for Non-compliance:** In the event of the Contractor's noncompliance with the nondiscrimination provisions of this contract, Galveston County shall impose such contract sanctions as it or the Texas Department of Transportation may determine to be appropriate, including, but not limited to:
- 1) withholding of payments to the Contractor under the contract until the Contractor complies, and/or;
 - 2) cancellation, termination, or suspension of the contract, in whole or in part.
- F. **Incorporation of Provisions.** The Contractor shall include the provisions of paragraphs (1) through (6) in every subcontract, including procurement of materials and leases of equipment, unless exempt by the Regulations, or directives issued pursuant thereto. The Contractor shall take such action with respect to any subcontract or procurement as Galveston County or the Texas Department of Transportation may direct as a means of enforcing such provisions including sanctions for non-compliance: Provided, however, that, in the event Contractor becomes involved in, or is threatened with, litigation with a subcontractor or supplier as a result of such direction, the Contractor may request Galveston County to enter into such litigation to protect the interests of Galveston County, and, in addition, the Contractor may request the United States to enter into such litigation to protect the interests of the United States.

56. CERTIFICATION REGARDING DEBARMENT, SUSPENSION, PROPOSED DEBARMENT, AND OTHER RESPONSIBILITY MATTERS:

Bidder certifies that neither it, nor any of its Principals, are presently debarred, suspended, proposed for debarment, disqualified, excluded, or in any way declared ineligible for the award of contracts by any Federal agency. Contractor agrees that it shall refund Galveston County for any payments made to Contractor while ineligible. Contractor acknowledges that Contractor's uncured failure to perform under this Agreement, if such should occur, may result in Contractor being debarred from performing additional work for the County, the GLO, the State, HUD, and other Federal and State entities. Further, Bidder has executed the Certification Regarding Debarment, Suspension, Proposed Debarment, and Other Responsibility Matters and returned the fully completed and executed original certification with the submission of its bid. **The truthful and fully completed and executed original of the**

**GENERAL PROVISIONS
LEE & JOE JAMAIL BAY PARK
GALVESTON COUNTY, TEXAS**

Certification Regarding Debarment, Suspension, Proposed Debarment, and Other Responsibility Matters must be included with the submission of Bidder's Bid and is a mandatory requirement of this Invitation to Bid. Bidder's failure to include the fully completed and executed original of this Certification shall be considered non-compliance with the requirements of this Invitation to Bid and grounds for the rejection of Bidder's Bid.

57. SECTION 231.006, FAMILY CODE/DELINQUENT CHILD SUPPORT:

Pursuant to Title 5, Section 231.006 of the Texas Family Code, as applicable, Bidder certifies that it, including all of its principals, is/are current in child support payments and therefore, that it is eligible to receive payments from State funds under a contract for property, materials, or services. Bidder acknowledges and agrees that if it is awarded this contract, then the ensuing agreement may be terminated and payment withheld if this certification is inaccurate. Finally, by the submission of its bid, the Bidder certifies that it has included the names and social security numbers of each person with at least 25% ownership interest in Bidder within its response to the Invitation to Bid and that all such persons are current in child support payments.

58. LABOR STANDARDS:

If applicable to this solicitation, Bidder acknowledges that the contract to be awarded pursuant to this solicitation is on a grant program funded with Federal funds.

Bidder shall comply with the requirements of 29 CFR Part 5 and CFR Part 30 and shall be in conformity with Executive Order 11246, entitled "Equal Employment Opportunity", Copeland, "Anti-Kickback" Act (29 C.F.R. Part 3), the Davis-Bacon and Related Acts (29 C.F.R. Parts 1,3, and 5), the Contract Work Hours and Safety Standards Act (40 U.S.C. 3701 et seq.), and all other applicable Federal, State, and local laws and regulations pertaining to labor standards, insofar as those acts apply to the performance of this Agreement. Bidder is also responsible for ensuring that all subcontractors comply with the requirements of 29 CFR Part 5 and CFR Part 30 and shall be in conformity with Executive Order 11246, entitled "Equal Employment Opportunity", Copeland "Anti-Kickback" Act, the Davis-Bacon and Related Acts (29 CFR Parts 1, 3 and 5), the Contract Work Hours and Safety Standards Act (40 U.S.C. 3701 et seq.), and all other applicable Federal, State, and local laws and regulations pertaining to labor standards, insofar as those acts apply to the performance of this Agreement.

End of General Provision Section

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County of Galveston Purchasing Department Vendor Qualification Packet

(rev. 1.2, January 27, 2012)

All interested parties seeking consideration for qualified vendor status with the County of Galveston should complete and return only the following attached forms to:

Galveston County Purchasing Department
722 Moody Avenue, (21st Street), 5th Floor
Galveston, Texas 77550
(409) 770-5371 office
(409) 621-7987 fax

- Form PEID:** Person /Entity Information Data
Form W-9: Request for Taxpayer Identification Number and Certification
(please note that the included form may not be the latest revised form issued by the Internal Revenue Service. Please check the IRS website at <http://www.irs.gov/pub/irs-pdf/fw9.pdf> for the latest revision of this form.)
Form CIQ: Conflict of Interest Questionnaire
(please note that the included form may not be the latest revised form issued by the State of Texas Ethics Commission. Please check the Texas Ethics Commission website at for the latest revision of this form. Please note that Galveston County Purchasing Agent is not responsible for the filing of this form with the Galveston County Clerk per instructions of the State of Texas Ethics Commission).

Certificate(s) of Insurance: **If the person or entity seeking qualified vendor status with the County will be performing work at or on any County owned facility and/or property, Certificate(s) of Insurance are required to be submitted prior to performing any work.**

Insurance requirements are as follows:

Public Liability and Property Damage Insurance:

Successful vendor agrees to keep in full force and effect, a policy of public liability and property damage insurance issued by a casualty company authorized to do business in the State of Texas, and in standard form approved by the Board of Insurance Commissioners of the State of Texas, with coverage provisions insuring the public from any loss or damage that may arise to any person or property by reason of services rendered by vendor. Vendor shall at its own expense be required to carry the following minimum insurance coverages:

- For damages arising out of bodily injury to or death of one person in any one occurrence – one hundred thousand and no/100 dollars (\$100,000.00);
- For damages arising out of bodily injury to or death of two or more persons in any one occurrence – three hundred thousand and no/100 dollars (\$300,000.00); and
- For injury to or destruction of property in any one occurrence – one hundred thousand and no/100 dollars (\$100,000.00).

This insurance shall be either on an occurrence basis or on a claims made basis. Provided however, that if the coverage is on a claims made basis, then the vendor shall be required to purchase, at the termination of this agreement, tail coverage for the County for the period of the County's relationship with the vendor under this agreement. Such coverage shall be in the amounts set forth in subparagraphs (1), (2), and (3) above.

Worker's Compensation Insurance:

Successful vendor shall also carry in full force Workers' Compensation Insurance policy(ies), if there is more than one employee, for all employees, including but not limited to full time, part time, and emergency employees employed by the vendor. Current insurance certificates certifying that such policies as specified above are in full force and effect shall be furnished by the vendor to the County.

The County of Galveston shall be named as additional insured on policies listed in subparagraphs above and shall be notified of any changes to the policy(ies) during the contractual period.

Insurance is to be placed with insurers having a Best rating of no less than A. The vendor shall furnish the County with certificates of insurance and original endorsements affecting coverage required by these insurance clauses. The certificates and endorsements for each insurance policy are to be signed by a person authorized by the insurer to bind coverage on its behalf. The vendor shall be required to submit annual renewals for the term of any contractual agreement, purchase order or term contract, with Galveston County prior to expiration of any policy.

In addition to the remedies stated herein, the County has the right to pursue other remedies permitted by law or in equity.

The County agrees to provide vendor with reasonable and timely notice of any claim, demand, or cause of action made or brought against the County arising out of or related to utilization of the property. Vendor shall have the right to defend any such claim, demand, or cause of action at its sole cost and expense and within its sole and exclusive discretion. The County agrees not to compromise or settle any claim or cause of action arising out of or related to the utilization of the property without the prior written consent of the vendor.

In no event shall the County be liable for any damage to or destruction of any property belonging to the vendor unless specified in writing and agreed upon by both parties.

Procurement Policy - Special Note:

Understand that it is, according to Texas Local Government Code, Section 262.011, Purchasing Agents, subsections (d), (e), and (f), the sole responsibility of the Purchasing Agent to supervise all procurement transactions.

Therefore, be advised that all procurement transactions require proper authorization in the form of a Galveston County purchase order from the Purchasing Agent's office prior to commitment to deliver supplies, materials, equipment, including contracts for repair, service, and maintenance agreements. Any commitments made without proper authorization from the Purchasing Agent's office, pending Commissioners' Court approval, may become the sole responsibility of the individual making the commitment including the obligation of payment.

Code of Ethics - Statement of Purchasing Policy:

Public employment is a public trust. It is the policy of Galveston County to promote and balance the objective of protecting the County's integrity and the objective of facilitating the recruitment and

retention of personnel needed by Galveston County. Such policy is implemented by prescribing essential standards of ethical conduct without creating unnecessary obstacles to entering public office.

Public employees must discharge their duties impartially so as to assure fair competitive access to governmental procurement by responsible contractors. Moreover, they should conduct themselves in such a manner as to foster public confidence in the integrity of the Galveston County procurement organization.

To achieve the purpose of these instructions, it is essential that those doing business with Galveston County also observe the ethical standards prescribed here.

General Ethical Standards: It shall be a breach of ethics to attempt to realize personal gain through public employment with Galveston County by any conduct inconsistent with the proper discharge of the employee's duties.

It shall be a breach of ethics to attempt to influence any public employee of Galveston County to breach the standards of ethical conduct set forth in this code.

It shall be a breach of ethics for any employee of Galveston County to participate directly or indirectly in procurement when the employee knows that:

- The employee or any member of the employee's immediate family has a financial interest pertaining to the procurement.
- A business or organization in which the employee, or any member of the employee's immediate family, has a financial interest pertaining to the procurement.
- Any other person, business or organization with which the employee or any member of the employee's immediate family is negotiating or has an arrangement concerning prospective employment is involved in the procurement.

Gratuities: It shall be a breach of ethics to offer, give or agree to give any employee of Galveston County, or for any employee or former employee of Galveston County to solicit, demand, accept or agree to accept from another person, a gratuity or an offer of employment in connection with any decision, approval, disapproval, recommendation, preparation of any part of a program requirement or purchase request, influencing the content of any specification or procurement standard, rendering of advice, investigation, auditing, or in any other advisory capacity in any program requirement or a contract or subcontract, or to any solicitation or proposal therefore pending before this government.

Kickbacks: It shall be a breach of ethics for any payment, gratuity or offer of employment to be made by or on behalf of a subcontractor under a contract to the prime contractor or higher tier subcontractor for any contract for Galveston County, or any person associated therewith, as an inducement for the award of a subcontract or order.

Contract Clause: The prohibition against gratuities and kickbacks prescribed above shall be conspicuously set forth in every contract and solicitation by Galveston County.

Confidential Information: It shall be a breach of ethics for any employee or former employee of Galveston County to knowingly use confidential information for actual or anticipated personal gain, or for the actual or anticipated gain of any person.

Questions/Concerns:

If you have any questions or concerns regarding the information or instructions contained within this packet, please contact any member of the Purchasing Department staff at (409) 770-5371.

CONFLICT OF INTEREST DISCLOSURE REPORTING

Proposer may be required under Chapter 176 of the Texas Local Government Code to complete and file a conflict of interest questionnaire (CIQ Form). If so, the completed CIQ Form must be filed with the County Clerk of Galveston County, Texas.

If Proposer has an employment or other business relationship with an officer of Galveston County or with a family member of an officer of Galveston County that results in the officer or family member of the officer receiving taxable income that exceeds \$2,500.00 during the preceding 12-month period, then Proposer **MUST** complete a CIQ Form and file the original of the CIQ Form with the County Clerk of Galveston County.

If Proposer has given an officer of Galveston County or a family member of an officer of Galveston County one or more gifts with an aggregate value of more than \$250.00 during the preceding 12-months, then Proposer **MUST** complete a CIQ Form and file the original of the CIQ Form with the County Clerk of Galveston County.

The Galveston County Clerk has offices at the following locations:

Galveston County Clerk
Galveston County Justice Center, Suite 2001
600 59th Street
Galveston, Texas 77551

Galveston County Clerk
North County Annex, 1st Floor
174 Calder Road
League City, Texas 77573

Again, if Proposer is required to file a CIQ Form, the original completed form is filed with the Galveston County Clerk (not the Purchasing Agent).

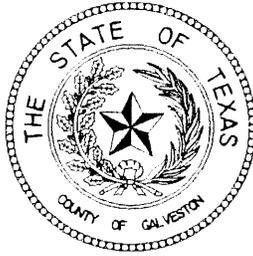
For Proposer's convenience, a blank CIQ Form is enclosed with this proposal. Blank CIQ Forms may also be obtained by visiting the Galveston County Clerk's website and/or the Purchasing Agent's website – both of these web sites are linked to the Galveston County homepage, at <http://www.co.galveston.tx.us>.

As well, blank CIQ Forms may be obtained by visiting the Texas Ethics Commission website, specifically at http://www.ethics.state.tx.us/whatsnew/conflict_forms.htm.

Chapter 176 specifies deadlines for the filing of CIQ Forms (both initial filings and updated filings).

It is Proposer's sole responsibility to file a true and complete CIQ Form with the Galveston County Clerk if Proposer is required to file by the requirements of Chapter 176. Proposer is advised that it is an offense to fail to comply with the disclosure reporting requirements dictated under Chapter 176 of the Texas Local Government Code.

If you have questions about compliance with Chapter 176, please consult your own legal counsel. Compliance is the individual responsibility of each person, business, and agent who is subject to Chapter 176 of the Texas Local Government Code.



**COUNTY of GALVESTON
Purchasing Department**

rev. 1.3, March 29, 2010

FORM PEID:	Request for Person-Entity Identification Data
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Instructions: Please type or print clearly when completing sections 1 thru 4 and return completed form to:

**Galveston County Purchasing Agent
722 Moody Avenue (21st. Street), 5th Floor
Galveston, Texas 77550
(409) 770-5371 office
(409) 621-7987 fax**

1.

Business Name:			
Attention Line:			

2.

Physical Address:			
City:		State:	Zip+4:

3.

Billing / Remit Address:			
City:		State:	Zip+4

4.

Main Contact Person:			
Main Phone Number:			
Fax Number:			
E-mail Address:			

Areas below are for County use only.

Requested By:	Phone / Ext. #
Department:	Date:

Action Requested - Check One:	IFAS PEID Vendor Number:	
<input type="checkbox"/> Add New	<input type="checkbox"/> Change Data	<input type="checkbox"/> Re-activate
<input type="checkbox"/> Inactivate	<input type="checkbox"/> Employee	<input type="checkbox"/> Attorney
<input type="checkbox"/> Landlord	<input type="checkbox"/> Foster Parent	<input type="checkbox"/> Refund
<input type="checkbox"/> One Time	<input type="checkbox"/> Foster Child	

Request for Taxpayer Identification Number and Certification

**Give Form to the
 requester. Do not
 send to the IRS.**

Print or type See Specific Instructions on page 2.	Name (as shown on your income tax return)	
	Business name/disregarded entity name, if different from above	
	Check appropriate box for federal tax classification: <input type="checkbox"/> Individual/sole proprietor <input type="checkbox"/> C Corporation <input type="checkbox"/> S Corporation <input type="checkbox"/> Partnership <input type="checkbox"/> Trust/estate <input type="checkbox"/> Limited liability company. Enter the tax classification (C=C corporation, S=S corporation, P=partnership) ▶ _____ <input type="checkbox"/> Exempt payee <input type="checkbox"/> Other (see instructions) ▶ _____	
	Address (number, street, and apt. or suite no.)	Requester's name and address (optional)
	City, state, and ZIP code	
List account number(s) here (optional)		

Part I Taxpayer Identification Number (TIN)

Enter your TIN in the appropriate box. The TIN provided must match the name given on the "Name" line to avoid backup withholding. For individuals, this is your social security number (SSN). However, for a resident alien, sole proprietor, or disregarded entity, see the Part I instructions on page 3. For other entities, it is your employer identification number (EIN). If you do not have a number, see *How to get a TIN* on page 3.

Social security number									

Note. If the account is in more than one name, see the chart on page 4 for guidelines on whose number to enter.

Employer identification number									

Part II Certification

Under penalties of perjury, I certify that:

1. The number shown on this form is my correct taxpayer identification number (or I am waiting for a number to be issued to me), and
2. I am not subject to backup withholding because: (a) I am exempt from backup withholding, or (b) I have not been notified by the Internal Revenue Service (IRS) that I am subject to backup withholding as a result of a failure to report all interest or dividends, or (c) the IRS has notified me that I am no longer subject to backup withholding, and
3. I am a U.S. citizen or other U.S. person (defined below).

Certification instructions. You must cross out item 2 above if you have been notified by the IRS that you are currently subject to backup withholding because you have failed to report all interest and dividends on your tax return. For real estate transactions, item 2 does not apply. For mortgage interest paid, acquisition or abandonment of secured property, cancellation of debt, contributions to an individual retirement arrangement (IRA), and generally, payments other than interest and dividends, you are not required to sign the certification, but you must provide your correct TIN. See the instructions on page 4.

Sign Here	Signature of U.S. person ▶	Date ▶
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General Instructions

Section references are to the Internal Revenue Code unless otherwise noted.

Purpose of Form

A person who is required to file an information return with the IRS must obtain your correct taxpayer identification number (TIN) to report, for example, income paid to you, real estate transactions, mortgage interest you paid, acquisition or abandonment of secured property, cancellation of debt, or contributions you made to an IRA.

Use Form W-9 only if you are a U.S. person (including a resident alien), to provide your correct TIN to the person requesting it (the requester) and, when applicable, to:

1. Certify that the TIN you are giving is correct (or you are waiting for a number to be issued),
2. Certify that you are not subject to backup withholding, or
3. Claim exemption from backup withholding if you are a U.S. exempt payee. If applicable, you are also certifying that as a U.S. person, your allocable share of any partnership income from a U.S. trade or business is not subject to the withholding tax on foreign partners' share of effectively connected income.

Note. If a requester gives you a form other than Form W-9 to request your TIN, you must use the requester's form if it is substantially similar to this Form W-9.

Definition of a U.S. person. For federal tax purposes, you are considered a U.S. person if you are:

- An individual who is a U.S. citizen or U.S. resident alien,
- A partnership, corporation, company, or association created or organized in the United States or under the laws of the United States,
- An estate (other than a foreign estate), or
- A domestic trust (as defined in Regulations section 301.7701-7).

Special rules for partnerships. Partnerships that conduct a trade or business in the United States are generally required to pay a withholding tax on any foreign partners' share of income from such business. Further, in certain cases where a Form W-9 has not been received, a partnership is required to presume that a partner is a foreign person, and pay the withholding tax. Therefore, if you are a U.S. person that is a partner in a partnership conducting a trade or business in the United States, provide Form W-9 to the partnership to establish your U.S. status and avoid withholding on your share of partnership income.

The person who gives Form W-9 to the partnership for purposes of establishing its U.S. status and avoiding withholding on its allocable share of net income from the partnership conducting a trade or business in the United States is in the following cases:

- The U.S. owner of a disregarded entity and not the entity,
- The U.S. grantor or other owner of a grantor trust and not the trust, and
- The U.S. trust (other than a grantor trust) and not the beneficiaries of the trust.

Foreign person. If you are a foreign person, do not use Form W-9. Instead, use the appropriate Form W-8 (see Publication 515, Withholding of Tax on Nonresident Aliens and Foreign Entities).

Nonresident alien who becomes a resident alien. Generally, only a nonresident alien individual may use the terms of a tax treaty to reduce or eliminate U.S. tax on certain types of income. However, most tax treaties contain a provision known as a "saving clause." Exceptions specified in the saving clause may permit an exemption from tax to continue for certain types of income even after the payee has otherwise become a U.S. resident alien for tax purposes.

If you are a U.S. resident alien who is relying on an exception contained in the saving clause of a tax treaty to claim an exemption from U.S. tax on certain types of income, you must attach a statement to Form W-9 that specifies the following five items:

1. The treaty country. Generally, this must be the same treaty under which you claimed exemption from tax as a nonresident alien.
2. The treaty article addressing the income.
3. The article number (or location) in the tax treaty that contains the saving clause and its exceptions.
4. The type and amount of income that qualifies for the exemption from tax.
5. Sufficient facts to justify the exemption from tax under the terms of the treaty article.

Example. Article 20 of the U.S.-China income tax treaty allows an exemption from tax for scholarship income received by a Chinese student temporarily present in the United States. Under U.S. law, this student will become a resident alien for tax purposes if his or her stay in the United States exceeds 5 calendar years. However, paragraph 2 of the first Protocol to the U.S.-China treaty (dated April 30, 1984) allows the provisions of Article 20 to continue to apply even after the Chinese student becomes a resident alien of the United States. A Chinese student who qualifies for this exception (under paragraph 2 of the first protocol) and is relying on this exception to claim an exemption from tax on his or her scholarship or fellowship income would attach to Form W-9 a statement that includes the information described above to support that exemption.

If you are a nonresident alien or a foreign entity not subject to backup withholding, give the requester the appropriate completed Form W-8.

What is backup withholding? Persons making certain payments to you must under certain conditions withhold and pay to the IRS a percentage of such payments. This is called "backup withholding." Payments that may be subject to backup withholding include interest, tax-exempt interest, dividends, broker and barter exchange transactions, rents, royalties, nonemployee pay, and certain payments from fishing boat operators. Real estate transactions are not subject to backup withholding.

You will not be subject to backup withholding on payments you receive if you give the requester your correct TIN, make the proper certifications, and report all your taxable interest and dividends on your tax return.

Payments you receive will be subject to backup withholding if:

1. You do not furnish your TIN to the requester,
2. You do not certify your TIN when required (see the Part II instructions on page 3 for details),
3. The IRS tells the requester that you furnished an incorrect TIN,
4. The IRS tells you that you are subject to backup withholding because you did not report all your interest and dividends on your tax return (for reportable interest and dividends only), or
5. You do not certify to the requester that you are not subject to backup withholding under 4 above (for reportable interest and dividend accounts opened after 1983 only).

Certain payees and payments are exempt from backup withholding. See the instructions below and the separate Instructions for the Requester of Form W-9.

Also see *Special rules for partnerships* on page 1.

Updating Your Information

You must provide updated information to any person to whom you claimed to be an exempt payee if you are no longer an exempt payee and anticipate receiving reportable payments in the future from this person. For example, you may need to provide updated information if you are a C corporation that elects to be an S corporation, or if you no longer are tax exempt. In addition, you must furnish a new Form W-9 if the name or TIN changes for the account, for example, if the grantor of a grantor trust dies.

Penalties

Failure to furnish TIN. If you fail to furnish your correct TIN to a requester, you are subject to a penalty of \$50 for each such failure unless your failure is due to reasonable cause and not to willful neglect.

Civil penalty for false information with respect to withholding. If you make a false statement with no reasonable basis that results in no backup withholding, you are subject to a \$500 penalty.

Criminal penalty for falsifying information. Willfully falsifying certifications or affirmations may subject you to criminal penalties including fines and/or imprisonment.

Misuse of TINs. If the requester discloses or uses TINs in violation of federal law, the requester may be subject to civil and criminal penalties.

Specific Instructions

Name

If you are an individual, you must generally enter the name shown on your income tax return. However, if you have changed your last name, for instance, due to marriage without informing the Social Security Administration of the name change, enter your first name, the last name shown on your social security card, and your new last name.

If the account is in joint names, list first, and then circle, the name of the person or entity whose number you entered in Part I of the form.

Sole proprietor. Enter your individual name as shown on your income tax return on the "Name" line. You may enter your business, trade, or "doing business as (DBA)" name on the "Business name/disregarded entity name" line.

Partnership, C Corporation, or S Corporation. Enter the entity's name on the "Name" line and any business, trade, or "doing business as (DBA) name" on the "Business name/disregarded entity name" line.

Disregarded entity. Enter the owner's name on the "Name" line. The name of the entity entered on the "Name" line should never be a disregarded entity. The name on the "Name" line must be the name shown on the income tax return on which the income will be reported. For example, if a foreign LLC that is treated as a disregarded entity for U.S. federal tax purposes has a domestic owner, the domestic owner's name is required to be provided on the "Name" line. If the direct owner of the entity is also a disregarded entity, enter the first owner that is not disregarded for federal tax purposes. Enter the disregarded entity's name on the "Business name/disregarded entity name" line. If the owner of the disregarded entity is a foreign person, you must complete an appropriate Form W-8.

Note. Check the appropriate box for the federal tax classification of the person whose name is entered on the "Name" line (Individual/sole proprietor, Partnership, C Corporation, S Corporation, Trust/estate).

Limited Liability Company (LLC). If the person identified on the "Name" line is an LLC, check the "Limited liability company" box only and enter the appropriate code for the tax classification in the space provided. If you are an LLC that is treated as a partnership for federal tax purposes, enter "P" for partnership. If you are an LLC that has filed a Form 8832 or a Form 2553 to be taxed as a corporation, enter "C" for C corporation or "S" for S corporation. If you are an LLC that is disregarded as an entity separate from its owner under Regulation section 301.7701-3 (except for employment and excise tax), do not check the LLC box unless the owner of the LLC (required to be identified on the "Name" line) is another LLC that is not disregarded for federal tax purposes. If the LLC is disregarded as an entity separate from its owner, enter the appropriate tax classification of the owner identified on the "Name" line.

Other entities. Enter your business name as shown on required federal tax documents on the "Name" line. This name should match the name shown on the charter or other legal document creating the entity. You may enter any business, trade, or DBA name on the "Business name/disregarded entity name" line.

Exempt Payee

If you are exempt from backup withholding, enter your name as described above and check the appropriate box for your status, then check the "Exempt payee" box in the line following the "Business name/disregarded entity name," sign and date the form.

Generally, individuals (including sole proprietors) are not exempt from backup withholding. Corporations are exempt from backup withholding for certain payments, such as interest and dividends.

Note. If you are exempt from backup withholding, you should still complete this form to avoid possible erroneous backup withholding.

The following payees are exempt from backup withholding:

1. An organization exempt from tax under section 501(a), any IRA, or a custodial account under section 403(b)(7) if the account satisfies the requirements of section 401(f)(2),
 2. The United States or any of its agencies or instrumentalities,
 3. A state, the District of Columbia, a possession of the United States, or any of their political subdivisions or instrumentalities,
 4. A foreign government or any of its political subdivisions, agencies, or instrumentalities, or
 5. An international organization or any of its agencies or instrumentalities.
- Other payees that may be exempt from backup withholding include:
6. A corporation,
 7. A foreign central bank of issue,
 8. A dealer in securities or commodities required to register in the United States, the District of Columbia, or a possession of the United States,
 9. A futures commission merchant registered with the Commodity Futures Trading Commission,
 10. A real estate investment trust,
 11. An entity registered at all times during the tax year under the Investment Company Act of 1940,
 12. A common trust fund operated by a bank under section 584(a),
 13. A financial institution,
 14. A middleman known in the investment community as a nominee or custodian, or
 15. A trust exempt from tax under section 664 or described in section 4947.

The following chart shows types of payments that may be exempt from backup withholding. The chart applies to the exempt payees listed above, 1 through 15.

IF the payment is for . . .	THEN the payment is exempt for . . .
Interest and dividend payments	All exempt payees except for 9
Broker transactions	Exempt payees 1 through 5 and 7 through 13. Also, C corporations.
Barter exchange transactions and patronage dividends	Exempt payees 1 through 5
Payments over \$600 required to be reported and direct sales over \$5,000 ¹	Generally, exempt payees 1 through 7 ²

¹ See Form 1099-MISC, Miscellaneous Income, and its instructions.

² However, the following payments made to a corporation and reportable on Form 1099-MISC are not exempt from backup withholding: medical and health care payments, attorneys' fees, gross proceeds paid to an attorney, and payments for services paid by a federal executive agency.

Part I. Taxpayer Identification Number (TIN)

Enter your TIN in the appropriate box. If you are a resident alien and you do not have and are not eligible to get an SSN, your TIN is your IRS individual taxpayer identification number (ITIN). Enter it in the social security number box. If you do not have an ITIN, see *How to get a TIN* below.

If you are a sole proprietor and you have an EIN, you may enter either your SSN or EIN. However, the IRS prefers that you use your SSN.

If you are a single-member LLC that is disregarded as an entity separate from its owner (see *Limited Liability Company (LLC)* on page 2), enter the owner's SSN (or EIN, if the owner has one). Do not enter the disregarded entity's EIN. If the LLC is classified as a corporation or partnership, enter the entity's EIN.

Note. See the chart on page 4 for further clarification of name and TIN combinations.

How to get a TIN. If you do not have a TIN, apply for one immediately. To apply for an SSN, get Form SS-5, Application for a Social Security Card, from your local Social Security Administration office or get this form online at www.ssa.gov. You may also get this form by calling 1-800-772-1213. Use Form W-7, Application for IRS Individual Taxpayer Identification Number, to apply for an ITIN, or Form SS-4, Application for Employer Identification Number, to apply for an EIN. You can apply for an EIN online by accessing the IRS website at www.irs.gov/businesses and clicking on Employer Identification Number (EIN) under Starting a Business. You can get Forms W-7 and SS-4 from the IRS by visiting IRS.gov or by calling 1-800-TAX-FORM (1-800-829-3676).

If you are asked to complete Form W-9 but do not have a TIN, write "Applied For" in the space for the TIN, sign and date the form, and give it to the requester. For interest and dividend payments, and certain payments made with respect to readily tradable instruments, generally you will have 60 days to get a TIN and give it to the requester before you are subject to backup withholding on payments. The 60-day rule does not apply to other types of payments. You will be subject to backup withholding on all such payments until you provide your TIN to the requester.

Note. Entering "Applied For" means that you have already applied for a TIN or that you intend to apply for one soon.

Caution: A disregarded domestic entity that has a foreign owner must use the appropriate Form W-8.

Part II. Certification

To establish to the withholding agent that you are a U.S. person, or resident alien, sign Form W-9. You may be requested to sign by the withholding agent even if item 1, below, and items 4 and 5 on page 4 indicate otherwise.

For a joint account, only the person whose TIN is shown in Part I should sign (when required). In the case of a disregarded entity, the person identified on the "Name" line must sign. Exempt payees, see *Exempt Payee* on page 3.

Signature requirements. Complete the certification as indicated in items 1 through 3, below, and items 4 and 5 on page 4.

1. Interest, dividend, and barter exchange accounts opened before 1984 and broker accounts considered active during 1983. You must give your correct TIN, but you do not have to sign the certification.

2. Interest, dividend, broker, and barter exchange accounts opened after 1983 and broker accounts considered inactive during 1983. You must sign the certification or backup withholding will apply. If you are subject to backup withholding and you are merely providing your correct TIN to the requester, you must cross out item 2 in the certification before signing the form.

3. Real estate transactions. You must sign the certification. You may cross out item 2 of the certification.

4. Other payments. You must give your correct TIN, but you do not have to sign the certification unless you have been notified that you have previously given an incorrect TIN. "Other payments" include payments made in the course of the requester's trade or business for rents, royalties, goods (other than bills for merchandise), medical and health care services (including payments to corporations), payments to a nonemployee for services, payments to certain fishing boat crew members and fishermen, and gross proceeds paid to attorneys (including payments to corporations).

5. Mortgage interest paid by you, acquisition or abandonment of secured property, cancellation of debt, qualified tuition program payments (under section 529), IRA, Coverdell ESA, Archer MSA or HSA contributions or distributions, and pension distributions. You must give your correct TIN, but you do not have to sign the certification.

Note. If no name is circled when more than one name is listed, the number will be considered to be that of the first name listed.

Secure Your Tax Records from Identity Theft

Identity theft occurs when someone uses your personal information such as your name, social security number (SSN), or other identifying information, without your permission, to commit fraud or other crimes. An identity thief may use your SSN to get a job or may file a tax return using your SSN to receive a refund.

To reduce your risk:

- Protect your SSN,
- Ensure your employer is protecting your SSN, and
- Be careful when choosing a tax preparer.

If your tax records are affected by identity theft and you receive a notice from the IRS, respond right away to the name and phone number printed on the IRS notice or letter.

If your tax records are not currently affected by identity theft but you think you are at risk due to a lost or stolen purse or wallet, questionable credit card activity or credit report, contact the IRS Identity Theft Hotline at 1-800-908-4490 or submit Form 14039.

For more information, see Publication 4535, Identity Theft Prevention and Victim Assistance.

Victims of identity theft who are experiencing economic harm or a system problem, or are seeking help in resolving tax problems that have not been resolved through normal channels, may be eligible for Taxpayer Advocate Service (TAS) assistance. You can reach TAS by calling the TAS toll-free case intake line at 1-877-777-4778 or TTY/TDD 1-800-829-4059.

Protect yourself from suspicious emails or phishing schemes. Phishing is the creation and use of email and websites designed to mimic legitimate business emails and websites. The most common act is sending an email to a user falsely claiming to be an established legitimate enterprise in an attempt to scam the user into surrendering private information that will be used for identity theft.

The IRS does not initiate contacts with taxpayers via emails. Also, the IRS does not request personal detailed information through email or ask taxpayers for the PIN numbers, passwords, or similar secret access information for their credit card, bank, or other financial accounts.

If you receive an unsolicited email claiming to be from the IRS, forward this message to phishing@irs.gov. You may also report misuse of the IRS name, logo, or other IRS property to the Treasury Inspector General for Tax Administration at 1-800-366-4484. You can forward suspicious emails to the Federal Trade Commission at: spam@uce.gov or contact them at www.ftc.gov/idtheft or 1-877-IDTHEFT (1-877-438-4338).

Visit IRS.gov to learn more about identity theft and how to reduce your risk.

What Name and Number To Give the Requester

For this type of account:	Give name and SSN of:
1. Individual	The individual
2. Two or more individuals (joint account)	The actual owner of the account or, if combined funds, the first individual on the account ¹
3. Custodian account of a minor (Uniform Gift to Minors Act)	The minor ²
4. a. The usual revocable savings trust (grantor is also trustee) b. So-called trust account that is not a legal or valid trust under state law	The grantor-trustee ³ The actual owner ¹
5. Sole proprietorship or disregarded entity owned by an individual	The owner ³
6. Grantor trust filing under Optional Form 1099 Filing Method 1 (see Regulation section 1.671-4(b)(2)(i)(A))	The grantor*
For this type of account:	Give name and EIN of:
7. Disregarded entity not owned by an individual	The owner
8. A valid trust, estate, or pension trust	Legal entity ⁴
9. Corporation or LLC electing corporate status on Form 8832 or Form 2553	The corporation
10. Association, club, religious, charitable, educational, or other tax-exempt organization	The organization
11. Partnership or multi-member LLC	The partnership
12. A broker or registered nominee	The broker or nominee
13. Account with the Department of Agriculture in the name of a public entity (such as a state or local government, school district, or prison) that receives agricultural program payments	The public entity
14. Grantor trust filing under the Form 1041 Filing Method or the Optional Form 1099 Filing Method 2 (see Regulation section 1.671-4(b)(2)(i)(B))	The trust

¹ List first and circle the name of the person whose number you furnish. If only one person on a joint account has an SSN, that person's number must be furnished.

² Circle the minor's name and furnish the minor's SSN.

³ You must show your individual name and you may also enter your business or "DBA" name on the "Business name/disregarded entity" name line. You may use either your SSN or EIN (if you have one), but the IRS encourages you to use your SSN.

⁴ List first and circle the name of the trust, estate, or pension trust. (Do not furnish the TIN of the personal representative or trustee unless the legal entity itself is not designated in the account title.) Also see *Special rules for partnerships* on page 1.

*Note. Grantor also must provide a Form W-9 to trustee of trust.

Privacy Act Notice

Section 6109 of the Internal Revenue Code requires you to provide your correct TIN to persons (including federal agencies) who are required to file information returns with the IRS to report interest, dividends, or certain other income paid to you; mortgage interest you paid; the acquisition or abandonment of secured property; the cancellation of debt; or contributions you made to an IRA, Archer MSA, or HSA. The person collecting this form uses the information on the form to file information returns with the IRS, reporting the above information. Routine uses of this information include giving it to the Department of Justice for civil and criminal litigation and to cities, states, the District of Columbia, and U.S. possessions for use in administering their laws. The information also may be disclosed to other countries under a treaty, to federal and state agencies to enforce civil and criminal laws, or to federal law enforcement and intelligence agencies to combat terrorism. You must provide your TIN whether or not you are required to file a tax return. Under section 3406, payers must generally withhold a percentage of taxable interest, dividend, and certain other payments to a payee who does not give a TIN to the payer. Certain penalties may also apply for providing false or fraudulent information.

CONFLICT OF INTEREST QUESTIONNAIRE

FORM CIQ

For vendor or other person doing business with local governmental entity

This questionnaire reflects changes made to the law by H.B. 1491, 80th Leg., Regular Session. This questionnaire is being filed in accordance with Chapter 176, Local Government Code by a person who has a business relationship as defined by Section 176.001(1-a) with a local governmental entity and the person meets requirements under Section 176.006(a).

By law this questionnaire must be filed with the records administrator of the local governmental entity not later than the 7th business day after the date the person becomes aware of facts that require the statement to be filed. See Section 176.006, Local Government Code.

A person commits an offense if the person knowingly violates Section 176.006, Local Government Code. An offense under this section is a Class C misdemeanor.

OFFICE USE ONLY

Date Received

1 Name of person who has a business relationship with local governmental entity.

2 Check this box if you are filing an update to a previously filed questionnaire.

(The law requires that you file an updated completed questionnaire with the appropriate filing authority not later than the 7th business day after the date the originally filed questionnaire becomes incomplete or inaccurate.)

3 Name of local government officer with whom filer has employment or business relationship.

Name of Officer

This section (item 3 including subparts A, B, C & D) must be completed for each officer with whom the filer has an employment or other business relationship as defined by Section 176.001(1-a), Local Government Code. Attach additional pages to this Form CIQ as necessary.

A. Is the local government officer named in this section receiving or likely to receive taxable income, other than investment income, from the filer of the questionnaire?

Yes No

B. Is the filer of the questionnaire receiving or likely to receive taxable income, other than investment income, from or at the direction of the local government officer named in this section AND the taxable income is not received from the local governmental entity?

Yes No

C. Is the filer of this questionnaire employed by a corporation or other business entity with respect to which the local government officer serves as an officer or director, or holds an ownership of 10 percent or more?

Yes No

D. Describe each employment or business relationship with the local government officer named in this section.

4

Signature of person doing business with the governmental entity

Date

INSTRUCTIONS TO BIDDERS

1. BID PACKAGE

This bid package consists of the Invitation to Bid, the Instructions to Bidders, the bid proposal, the unexecuted Notice of Contract Award, the Special and General Terms and Conditions, any drawings and specifications, and any addenda which the County may issue prior to receipt of bids.

2. REVIEW

Each bidder is required to thoroughly review this entire bid packet to familiarize themselves with the bidding procedures, the plans and specifications for the requested work as well as the terms, and conditions of the contract the successful bidder will execute with the County.

3. PRE-BID MODIFICATIONS

Any modification to any portion of this bid packet will be in writing in the form of addenda. All addenda will be mailed to all holders of plans and specifications at least three (3) days prior to the date of opening bids. Bidders should inquire whether addenda have been issued inasmuch as Bidders shall be bound by such addenda whether or not received.

4. BID FORMS

All bids must be submitted on forms furnished by County.

5. TIME FOR RECEIVING BIDS

Bids received prior to the submission deadline will be maintained unopened until the specified time for bid opening. If the bidder fails to identify the Bid Number on the outside of the envelope as required, the Purchasing Agent will open the

envelope for the sole purpose of identifying the Bid Number for which the submission was made. The envelope will then be resealed. No liability will attach to a County officer or employee for the premature opening of a bid.

6. **TERM**

The term of the contract will begin on the date of execution by the County and will terminate on the date specified in the document entitled "Contract Award".

7. **AWARD OF BID**

The award will be to the responsive, responsible bidder(s) who submits the lowest and best bid. Criteria utilized for determining responsibility of bidder(s) includes, the bidder's experience, skill, ability, business judgment, financial capacity, integrity, honesty, possession of the necessary facilities or equipment, previous performance, reputation, promptness and any other factor deemed relevant by the County. The bidder shall furnish any information requested by the County in order for the County to determine whether a bidder is responsible.

8. **SUBSTITUTES**

It is not the County's intent to discriminate against any materials of equal merit to those specified; however, should the Bidder desire to use any substitutions, prior written approval shall be obtained from the County sufficiently in advance in order that an addendum might be issued.

9. **REJECTION OF BIDS**

The County, acting through its County Commissioners' Court reserves the right to: (1) reject any and all bids and waive any informality in the bids received; (2) disregard the bid of any Bidder determined to be not responsible.

10. **BID BOND**

Each Bidder will be required to furnish with his bid a Cashier's or Certified Check from any bank in the State of Texas or an acceptable Bidder's Bond for the sum of 5% of the total highest bid payable to the County of Galveston. The certified check or Bid Bond will be returned to the unsuccessful Bidder(s) and to the successful Bidder on the completion of execution of all contract documents and the furnishing of any necessary payment and performance bonds and insurance certificates.

The bid bond or check will be forfeited to the County as liquidated damages should the successful Bidder fail to give the required payment and performance bonds and insurance certificates and execute the contract with the said County within thirty (30) days after receiving notice of acceptance of its bid.

11. **PERFORMANCE AND PAYMENT BOND**

V.T.C.A., Government Code Chapter 2253, requires a Performance Bond (for contracts in excess of \$100,000) and a Payment Bond (for contracts in excess of \$25,000), be provided by the Contractor. Each bond required shall be equal to the total contract price and shall be issued by a satisfactory surety company. The bond(s) will remain in full force and effect until final completion and acceptance of the work.

The bond(s) are to be made payable to the County of Galveston. They shall be written on forms provided by the surety for public works projects in Texas. They shall also be executed by a surety and licensed to do business in Texas. Bidders should familiarize themselves with the entire provisions of V.T.C.A., Chapter 2253 and the penalties provided for its violations before submitting their bid.

12. **CONTRACT**

The contract shall become effective upon the Commissioners' Court's execution of same. The contract documents shall consist of the contract, the general and special conditions, the drawings, the bid package, any addenda issued, and any change orders issued during the work.

13. **TAX EXEMPTION**

This contract is issued by a political subdivision of the State of Texas which qualifies for exemption from sales, excise and use taxes pursuant to Section 151.309, Texas Tax Code.

The Contractor performing this contract may purchase, rent or lease all materials, supplies, equipment used or consumed in the performance of this contract by issuing to his supplier an exemption certificate complying with State Comptroller's Ruling #95-9.07 in lieu of the tax. Any such exemption certificate issued by the Contractor in lieu of the tax shall be subject to the provisions of the State Comptroller's ruling #95.05 (effective October 2, 1968) or as hereafter amended.

SECTION II
Bid Proposal
Contract Award

THIS SHEET INTENTIONALLY LEFT BLANK

BID #B151017

BID PROPOSAL

The bidder hereby proposes to furnish all labor, material, equipment and incidentals for:

LEE & JOE JAMAIL BAY PARK

Enclosed is a Certified Check, Cashier's Check or Bid Bond in the sum of 5% of the greatest amount bid.

Bidder agrees to perform in accordance with the requirements of the contract documents in consideration of payment by the County of the prices in this proposal.

IN CASE OF DISCREPANCY BETWEEN UNIT PRICES AND EXTENDED PRICES, UNIT PRICES WILL GOVERN.

This bid sheet must be completely filled out in ink or typewritten with any necessary supplemental information attached.

The undersigned hereby agrees to all of the foregoing terms and provisions and to all terms and provisions of the contract, if awarded, which includes all provisions of Sections I - VI of this bid package.

BIDDER	_____
SIGNATURE	_____
PRINT NAME	_____
TITLE	_____
ADDRESS	_____
CITY, STATE	_____
ZIP	_____
TELEPHONE	_____
FAX NO	_____
DATE	_____
TAX I.D. No.	_____

BID # B151017

BID FORM

61ST STREET BOAT RAMP

ITEM NO.	SPEC. NO.	ITEM DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	TOTAL PRICE
1	104	Removing Concrete (Boat Ramp)	200	SY		
2	104	Removing Concrete (Curb)	25	LF		
3	110	Excavation (Roadway, Including Removal of All Grass, Soil, Gravel, Concrete, Asphalt, Base, and Debris)	2,515	CY		
4	132	Embankment (Final) (Dens Cont) (Ty C)	5,290	CY		
5	162	Block Sodding	50	SY		
6	216	Proof Rolling to 95% Standard Proctor Density (When Requested by Contractor and Approved by Owner)	10	HR		
7	247	Flexible Base (12" Depth) (Type E) (Complete In Place) (Boat Ramp), Including Filter Fabric	212	SY		
8	260	Lime (Hydrated, Commercial or Quicklime) (Slurry) or Quicklime (Dry)	60	TON		
9	260	When Requested by Owner, in Lieu of 2' Vegetation Strip, Contractor to Continue Use of Lime (Hydrated, Commercial or Quicklime) (Slurry) or Quicklime (Dry) up to and Conforming to Geometrics of Bulkhead	1.8	TON		
10	260	Lime Treatment (Subgrade) (DC) (6")	4,836	SY		
11	260	When Requested by Owner, in Lieu of 2' Vegetation Strip, Contractor to Continue Lime Treatment (Subgrade) (DC) (6") up to and Conforming to Geometrics of Bulkhead	145	SY		
12	360	Concrete Pavement (JRCP) (7") (Parking Lot, Including Header at Edge of Pavement)	4,836	SY		
13	360	When Requested by Owner, in Lieu of 2' Vegetation Strip, Contractor to Continue Placement of Concrete Pavement (JRCP) (7") (Parking Lot) up to and Conforming to Geometrics of Bulkhead	145	SY		
14	360	Concrete Pavement (JRCP) (8") (Boat Ramp)	210	SY		
15	406	Treated Timber Piling (15" Diameter, 60' Length)	480	LF		
16	406	Treated Timber Piling (18" Diameter, 75' Length)	1,500	LF		
17	407	Steel Piling (PZ 27), Coated	23,550	SF		
18	407	Steel Piling (PZ 22), Coated	4,466	SF		

BID # B151017

BID FORM

61ST STREET BOAT RAMP

ITEM NO.	SPEC. NO.	ITEM DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	TOTAL PRICE
19	420	Coping (Sheetpile Cap)	524	LF		
20	420	Coping (Pile Cap Underwater at Base of Boat Ramp)	32	LF		
21	423	Retaining Wall (Cast-In-Place, See Plans)	52	SF		
22	432	Riprap (6"-18") (Special Riprap)	200	CY		
23	490-492	Treated Timber Docks, Including All Treated Timber, Fasteners, Hangers, and Other Hardware as Needed (Excludes Timber Piling)	1	LS		
24	496	Removing Structures (Bollard)	4	EA		
25	496	Removing Structures (Existing Timber Piles, of the 56 Total, as Required for Installation of Proposed Boat Ramp and Docks)	20	EA		
26	496	Removing Structures (Existing 400 SF Boat Dock, Excluding Timber Piles)	2	EA		
27	500	Mobilization (5% Max)	1	LS		
28	502	Barricades, Signs, and Traffic Handling	7	MO		
29	506	Construction Exists (Install) (TY 3)	25	SY		
30	506	Construction Exists (Remove) (TY 3)	25	SY		
31	506	Temporary Sediment Control Fence	135	LF		
32	506	Sandbags for Erosion Control	6	EA		
33	529	Concrete Curb (Dowel) (6")	80	LF		
34	644	Install Small Roadside Sign Supports and Assemblies (10BWG) (1) (SA) (P)	2	EA		
35	666	Reflectorized Pavement Markings (W) (4") (Solid) (Ty I) (100 MIL)	1,285	LF		
36	666	Reflectorized Pavement Markings (Y) (4") (Double Solid) (Ty I) (100 MIL)	10	LF		
37	666	Reflectorized Pavement Markings (Y) (4") (Broken) (Ty I) (100 MIL)	80	LF		
38	666	Reflectorized Pavement Markings (W) (12") (Solid) (Ty I) (100 MIL)	175	LF		
39	666	Reflectorized Pavement Markings (W) (Arrow) (Ty I) (100 MIL)	1	EA		

BID # B151017

BID FORM

61ST STREET BOAT RAMP

ITEM NO.	SPEC. NO.	ITEM DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	TOTAL PRICE
40	666	Pavement Sealer (4")	1,375	LF		
41	666	Pavement Sealer (12")	175	LF		
42	666	Pavement Sealer (Arrow)	1	EA		
43	678	Pavement Surface Preparation for Markings (4")	1,375	LF		
44	678	Pavement Surface Preparation for Markings (12")	175	LF		
45	678	Pavement Surface Preparation for Markings (Arrow)	1	EA		
46	See Plans	Install Steel Pipe Bollard	3	EA		
47	See Plans	Remove 10' (+/-) of 1' Wide Concrete Median, Inclusive of Cement Stabilized Subgrade, Pavement Repair, Nosing of Remaining 1' Median, and Adjustment of Turn Lane Striping	10	LF		
48	See Plans	Remove and Dispose of Unsuitable (Consisting of Riprap with Reinforcing Steel and/or Unacceptable Gradation) Existing Riprap Shore Protection, as Directed by Owner	315	CY		
49	See Plans	Remove Suitable Existing Riprap Shore Protection, Stockpile, and Relocate Evenly Along Shoreline Below Mean Higher High Water Elevation, as Directed by Owner	315	CY		
TOTAL BASE BID						

BID # B151017

BID FORM

61ST STREET BOAT RAMP

Alternate No. 1 - Electrical

ITEM NO.	SPEC. NO.	ITEM DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	TOTAL PRICE
1	16050	Trench and Backfill (24" Deep)	550	LF		
2	16050	1" Schedule 80 PVC Electrical Conduit	600	LF		
3	16050	#8awg Electrical Wire	2,100	LF		
4	16050	Light Pole w/ Single Fixture, Including Foundation	3	EA		
5	16050	Light Pole w/ Dual Fixtures, Including Foundation	1	EA		
6	16050	24"x36"x36" IN GROUND PULL BOX	1	EA		
7	16050	3/4" Ground Clamp	4	EA		
8	16050	3/4"x10" Copper Clad Steel Ground Rod	4	EA		

TOTAL ALTERNATE NO. 1	
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BID # B151017

BID FORM

61ST STREET BOAT RAMP

Alternate No. 2 - Landscaping

ITEM NO.	SPEC. NO.	ITEM DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	TOTAL PRICE
1	160	Furnishing and Placing Topsoil (Vegetation Strip and Palm Tree Area)	55	CY		
2	192	Plant Material (10' Palm Tree)	1	EA		
3	192	Plant Material (Plugs at 18" Cntr)	347	EA		
4	247	Flexible Base (18" Depth) (Type E) (Complete In Place) (Vegetation Strip), Including Filter Fabric	145	SY		

TOTAL ALTERNATE NO. 2	
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TOTAL BASE BID AND ALTERNATE NOS. 1 & 2 (61st Street Boat Ramp)	
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THIS PROPOSAL CONSISTS OF A BASE BID AND ALTERNATE BIDS. FOR A BID TO BE CONSIDERED RESPONSIVE, ALL SECTIONS MUST BE COMPLETED. ANY COMBINATION OF BASE BID AND ALTERNATE BID(S) MAY BE AWARDED; HOWEVER, IN NO CASE WILL THE ALTERNATE BID(S) ONLY BE AWARDED. THE AWARD OF THE CONTRACT WILL BE BASED ON THE BID TO BE IN THE BEST INTEREST OF GALVESTON COUNTY.

ALL ITEMS OF WORK REQUIRED UNDER THIS CONTRACT NOT SPECIFICALLY CALLED FOR IN THE PROPOSAL AS PAY ITEMS SHALL BE CONSIDERED INCIDENTAL TO THE VARIOUS BID ITEMS AND NO SEPARATE PAYMENT SHALL BE MADE FOR SAME.

BID # B151017

BID FORM

WASHINGTON PARK RECREATIONAL AREA

ITEM NO.	SPEC. NO.	ITEM DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	TOTAL PRICE
1	104	Removing Concrete (Slabs, Sidewalks, Etc.)	337	SY		
2	104	Removing Concrete (Curb, Including Wheelstops)	394	LF		
3	105	Removing Stabilized Base and Asphalt Pavement (Estimated on a Depth of 1 1/2" Asphalt and 4 1/2" Base; Actual Depths May Vary)	2,680	SY		
4	110	Excavation (Roadway) (Estimated on a Depth of 12" Surficial Soil)	720	CY		
5	132	Embankment (Final) (Dens Cont) (Ty C)	4,100	CY		
6	162	Block Sodding	360	SY		
7	216	Proof Rolling to 95% Standard Proctor Density (When Requested by Contractor and Approved by Owner)	10	HR		
8	260	Lime (Hydrated, Commercial or Quicklime) (Slurry) or Quicklime (Dry)	26	TON		
9	260	When Requested by Owner, in Lieu of 2' Vegetation Strip between Sta. 22+83.78 and Sta. 27+10.09, Contractor to Continue Use of Lime (Hydrated, Commercial or Quicklime) (Slurry) or Quicklime (Dry) up to and Conforming to Geometrics of Bulkhead	1.4	TON		
10	260	Lime Treatment (Subgrade) (DC) (6")	2,100	SY		
11	260	When Requested by Owner, in Lieu of 2' Vegetation Strip between Sta. 22+83.78 and Sta. 27+10.09, Contractor to Continue Lime Treatment (Subgrade) (DC) (6") up to and Conforming to Geometrics of Bulkhead	110	SY		
12	360	Concrete Pavement (JRCP) (6") (Parking Lot, Including Header at Edge of Pavement)	1,942	SY		
13	360	When Requested by Owner, in Lieu of 2' Vegetation Strip between Sta. 22+83.78 and Sta. 27+10.09, Contractor to Continue Placement of Concrete Pavement (JRCP) (6") (Parking Lot) up to and Conforming to Geometrics of Bulkhead	110	SY		
14	406	Treated Timber Piling (15" Diameter, 50' Length)	2,000	LF		
15	407	Steel Piling (PZ 27), Coated	16,680	SF		
16	407	Steel Piling (PZ 22), Coated	10,940	SF		

BID # B151017

BID FORM

WASHINGTON PARK RECREATIONAL AREA

ITEM NO.	SPEC. NO.	ITEM DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	TOTAL PRICE
17	420	Coping (Sheetpile Cap)	855	LF		
18	423	Retaining Wall (Cast-In-Place, See Plans)	69	SF		
19	432	Riprap (6"-18") (Special Riprap)	64	CY		
20	490-492	2"x2" Treated Timber (Estimated Based on 8' Commercial Length Timber)	3.416	MBF		
21	490-492	2"x4" Treated Timber (Estimated Based on 8' Commercial Length Timber)	0.048	MBF		
22	490-492	2"x6" Treated Timber (Estimated Based on 12' Commercial Length Timber)	4.352	MBF		
23	490-492	2"x12" Treated Timber (Estimated Based on 14' Commercial Length Timber)	2.786	MBF		
24	490-492	3"x12" Treated Timber (Estimated Based on 14' Commercial Length Timber)	0.392	MBF		
25	490-492	3"x12" Treated Timber (Estimated Based on 18' Commercial Length Timber)	0.216	MBF		
26	490-492	4"x4" Treated Timber (Estimated Based on 8' Commercial Length Timber)	0.432	MBF		
27	496	Removing Structures (Bollard)	4	EA		
28	496	Removing Structures (Existing Timber Piles, of the 20 Total, Including Any Pile Connections as Required for Installation of Proposed Fishing Pier)	6	EA		
29	500	Mobilization (5% Max)	1	LS		
30	502	Barricades, Signs, and Traffic Handling	9	MO		
31	506	Construction Exists (Install) (TY 3)	380	SF		
32	506	Construction Exists (Remove) (TY 3)	380	SF		
33	506	Temporary Sediment Control Fence	175	LF		
34	506	Sandbags for Erosion Control	8	EA		
35	529	Concrete Curb (Dowel) (6")	728	LF		
36	529	Slotted Concrete Curb (Dowel) (6") (Includes Wheelstops)	380	LF		

BID # B151017

BID FORM

WASHINGTON PARK RECREATIONAL AREA

ITEM NO.	SPEC. NO.	ITEM DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	TOTAL PRICE
37	644	Install Small Roadside Sign Supports and Assemblies (10BWG) (1) (SA) (P)	6	EA		
38	666	Reflectorized Pavement Markings (W) (4") (Solid) (Ty I) (100 MIL)	650	LF		
39	666	Reflectorized Pavement Markings (W) (Symbol) (Ty I) (100 MIL)	2	EA		
40	666	Pavement Sealer (4")	650	LF		
41	666	Pavement Sealer (Symbol)	2	EA		
42	678	Pavement Surface Preparation for Markings (4")	650	LF		
43	678	Pavement Surface Preparation for Markings (Symbol)	2	EA		
44	See Plans	Install Steel Pipe Bollard, as Directed by Owner	1	EA		
45	See Plans	Transition Plate, 3'-3"x5'x3/8" Diamond Plate, Galvanized	3	EA		
46	See Plans	Remove and Dispose of Unsuitable (Consisting of Riprap with Reinforcing Steel and/or Unacceptable Gradation) Existing Riprap Shore Protection, as Directed by Owner	461	CY		
47	See Plans	Remove Suitable Existing Riprap Shore Protection, Stockpile, and Relocate Evenly Along Shoreline Below Mean Higher High Water Elevation, as Directed by Owner	461	CY		

TOTAL BASE BID	
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Alternate No. 1 - 105' South Fishing Pier Extension (Bents 20 to 30)

ITEM NO.	SPEC. NO.	ITEM DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	TOTAL PRICE
1	406	Treated Timber Piling (15" Diameter, 50' Length)	1,000	LF		
2	490-492	2"x2" Treated Timber (Estimated Based on 8' Commercial Length Timber)	1.704	MBF		
3	490-492	2"x4" Treated Timber (Estimated Based on 8' Commercial Length Timber)	0.032	MBF		
4	490-492	2"x6" Treated Timber (Estimated Based on 12' Commercial Length Timber)	3.132	MBF		
5	490-492	2"x12" Treated Timber (Estimated Based on 14' Commercial Length Timber)	1.498	MBF		
6	490-492	3"x12" Treated Timber (Estimated Based on 14' Commercial Length Timber)	0.224	MBF		

BID # B151017

BID FORM

WASHINGTON PARK RECREATIONAL AREA

ITEM NO.	SPEC. NO.	ITEM DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	TOTAL PRICE
7	490-492	3"x12" Treated Timber (Estimated Based on 18' Commercial Length Timber)	0.072	MBF		
8	490-492	4"x4" Treated Timber (Estimated Based on 8' Commercial Length Timber)	0.216	MBF		
9	See Plans	Transition Plate, 3'-3"x5'x3/8" Diamond Plate, Galvanized	1	EA		

TOTAL ALTERNATE NO. 1	
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Alternate No. 2 - 194' North Fishing Pier

ITEM NO.	SPEC. NO.	ITEM DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	TOTAL PRICE
1	406	Treated Timber Piling (15" Diameter, 50' Length)	2,000	LF		
2	490-492	2"x2" Treated Timber (Estimated Based on 8' Commercial Length Timber)	3.344	MBF		
3	490-492	2"x4" Treated Timber (Estimated Based on 8' Commercial Length Timber)	0.048	MBF		
4	490-492	2"x6" Treated Timber (Estimated Based on 8' Commercial Length Timber)	4.288	MBF		
5	490-492	2"x12" Treated Timber (Estimated Based on 14' Commercial Length Timber)	2.058	MBF		
6	490-492	3"x12" Treated Timber (Estimated Based on 10' Commercial Length Timber)	0.28	MBF		
7	490-492	3"x12" Treated Timber (Estimated Based on 14' Commercial Length Timber)	0.168	MBF		
8	490-492	4"x4" Treated Timber (Estimated Based on 8' Commercial Length Timber)	0.424	MBF		
9	531	Concrete Sidewalk (4 1/2"), Including Compacted Bedding	149	SY		
10	See Plans	Transition Plate, 3'-3"x5'x3/8" Diamond Plate, Galvanized	3	EA		

TOTAL ALTERNATE NO. 2	
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Alternate No. 3 - Large Pavilion (18'X24')

ITEM NO.	SPEC. NO.	ITEM DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	TOTAL PRICE
1	531	Concrete Sidewalk (4 1/2"), Including Compacted Bedding	22	SY		
2	02870	Trash Receptacle	1	EA		

BID # B151017

BID FORM

WASHINGTON PARK RECREATIONAL AREA

ITEM NO.	SPEC. NO.	ITEM DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	TOTAL PRICE
3	02870	Stainless Steel Grill	1	EA		
4	02870	Aluminum Picnic Table	4	EA		
5	02870	Aluminum Picnic Table (ADA Accessible)	2	EA		
6	02870	18'x24' Pavilion w/ 28'x34' Concrete Slab	1	EA		

TOTAL ALTERNATE NO. 3	
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Alternate No. 4 - Small Pavilion (16'X16')

ITEM NO.	SPEC. NO.	ITEM DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	TOTAL PRICE
1	02870	Trash Receptacle	1	EA		
2	02870	Stainless Steel Grill	1	EA		
3	02870	Aluminum Picnic Table	3	EA		
4	02870	Aluminum Picnic Table (ADA Accessible)	1	EA		
5	02870	16'x16' Pavilion w/ 26'x26' Concrete Slab	1	EA		

TOTAL ALTERNATE NO. 4	
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Alternate No. 5 - Small Pavilion (16'X16')

ITEM NO.	SPEC. NO.	ITEM DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	TOTAL PRICE
1	02870	Trash Receptacle	1	EA		
2	02870	Stainless Steel Grill	1	EA		
3	02870	Aluminum Picnic Table	3	EA		
4	02870	Aluminum Picnic Table (ADA Accessible)	1	EA		
5	02870	16'x16' Pavilion w/ 26'x26' Concrete Slab	1	EA		

TOTAL ALTERNATE NO. 5	
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BID # B151017

BID FORM

WASHINGTON PARK RECREATIONAL AREA

Alternate No. 6 - Electrical

ITEM NO.	SPEC. NO.	ITEM DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	TOTAL PRICE
1	16050	Trench and Backfill (24" Deep)	900	LF		
2	16050	1" Schedule 80 PVC Electrical Conduit	2,100	LF		
3	16050	1 1/2" Schedule 80 PVC Electrical Conduit	50	LF		
4	16050	3/4" Ground Clamp	11	EA		
5	16050	3/4"x10" Copper Clad Steel Ground Rod	11	EA		
6	16050	1 1/2" PVC Weatherhead	1	EA		
7	16050	#3awg Electrical Wire	150	LF		
8	16050	#4awg Ground Wire	3,000	LF		
9	16050	#8awg Electrical Wire	3,000	LF		
10	16050	#12awg Electrical Wire	1,100	LF		
11	16050	Meter Socket 100A, 120/240V	1	EA		
12	16050	24"x36"x90" Stainless Steel NEMA 4X Enclosure	1	EA		
13	16050	4'x8'x18" High Equipment Pad	1	EA		
14	16050	100A, Single Phase, 120/240V Panelboard, 14 Circuit	1	EA		
15	16050	Photocell	1	EA		
16	16050	24-hour, Dial Type Electric Timer	1	EA		
17	16050	4 Pole, 30A Rated, Lighting Contactor	1	EA		
18	16050	Light Pole w/ Single Fixture, Including Foundation	5	EA		
19	16050	GFCI Receptacle in Weatherproof Enclosure	4	EA		
20	16050	Pedestrian Light Pole w/ Single Fixture, Including Foundation	5	EA		
21	16050	24"x36"x36" In Ground Pull Box	1	EA		

TOTAL ALTERNATE NO. 6	
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BID # B151017

BID FORM

WASHINGTON PARK RECREATIONAL AREA

Alternate No. 7 - Landscaping

ITEM NO.	SPEC. NO.	ITEM DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	TOTAL PRICE
1	160	Furnishing and Placing Topsoil (Vegetation Strip and Palm Tree Areas)	92	CY		
2	192	Plant Material (10' Palm Tree)	7	EA		
3	192	Plant Material (Plugs at 18" Cntr)	432	EA		
4	247	Flexible Base (18" Depth) (Type E) (Complete In Place) (Vegetation Strip, Including Filter Fabric)	180	SY		

TOTAL ALTERNATE NO. 7	
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TOTAL BASE BID AND ALTERNATE NOS. 1 THRU 7 (Washington Park)	
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THIS PROPOSAL CONSISTS OF A BASE BID AND ALTERNATE BIDS. FOR A BID TO BE CONSIDERED RESPONSIVE, ALL SECTIONS MUST BE COMPLETED. ANY COMBINATION OF BASE BID AND ALTERNATE BID(S) MAY BE AWARDED; HOWEVER, IN NO CASE WILL THE ALTERNATE BID(S) ONLY BE AWARDED. THE AWARD OF THE CONTRACT WILL BE BASED ON THE BID TO BE IN THE BEST INTEREST OF GALVESTON COUNTY.

ALL ITEMS OF WORK REQUIRED UNDER THIS CONTRACT NOT SPECIFICALLY CALLED FOR IN THE PROPOSAL AS PAY ITEMS SHALL BE CONSIDERED INCIDENTAL TO THE VARIOUS BID ITEMS AND NO SEPARATE PAYMENT SHALL BE MADE FOR SAME.

BID # B151017

BID FORM

61st STREET PEDESTRIAN BRIDGE

Pedestrian Bridge

ITEM NO.	SPEC. NO.	ITEM DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	TOTAL PRICE
1	500	BARGE MOBILIZATION	1	LS		
2	409	PRESTR CONC PIL (16 IN)	830	LF		
3	420	CL C CONC (CAP)	34.5	CY		
4	420	CL C CONC (RETAINING WALL)	43	CY		
5	422	REINF CONC SLAB	3,870	SF		
6	425	PRESTR CONC SLAB BEAM (4SB12)	412.7	LF		
7	450	RAIL (TY PR1)	468	LF		
8	15001	PREFABRICATED PEDESTRIAN STEEL BRIDGE SPANS (1-80")	2	EA		

TOTAL						
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Electrical

ITEM NO.	SPEC. NO.	ITEM DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	TOTAL PRICE
1	16050	1" Schedule 80 PVC Electrical Conduit	520	LF		
2	16050	Pull Box Embedded in Pedestrian Bridge Concrete Deck	11	EA		
3	16050	#8awg Electrical Wire	800	LF		
4	16050	#12awg Electrical Wire	1,000	LF		
5	16050	Pedestrian Light Pole w/ Single Fixture, Installed on Pedestrian Bridge	5	EA		

TOTAL Electrical						
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TOTAL BASE BID 61st Pedestrian Bridge						
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BID FORM

61st STREET PEDESTRIAN BRIDGE

Alternate No. 1 - Pedestrain Bridge*

ITEM NO.	SPEC. NO.	ITEM DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	TOTAL PRICE
1	422	REINF CONC SLAB	3,870	SF		
2	15001	PREFABRICATED PEDESTRIAN STEEL BRIDGE SPANS (1-41')	1	EA		
3	15001	PREFABRICATED PEDESTRIAN STEEL BRIDGE SPANS (1-38')	1	EA		
4	15001	PREFABRICATED PEDESTRIAN STEEL BRIDGE SPANS (1-30')	1	EA		
5	15001	PREFABRICATED PEDESTRIAN STEEL BRIDGE SPANS (1-28.57')	1	EA		

TOTAL ALTERNATE NO. 1	
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*Prefabricated sections are in substitution for Item 5 "Reinf Conc Slab" & Item 6 "Prestr Conc Slab Beams"

TOTAL BASE BID WITH ALTERNATE NO. 1	
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TOTAL PROJECT BID (Boat Ramp, Washington Park, and Pedestrian Bridge)	
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THIS PROPOSAL CONSISTS OF A BASE BID AND ALTERNATE BIDS. FOR A BID TO BE CONSIDERED RESPONSIVE, ALL SECTIONS MUST BE COMPLETED. ANY COMBINATION OF BASE BID AND ALTERNATE BID(S) MAY BE AWARDED; HOWEVER, IN NO CASE WILL THE ALTERNATE BID(S) ONLY BE AWARDED. THE AWARD OF THE CONTRACT WILL BE BASED ON THE BID TO BE IN THE BEST INTEREST OF GALVESTON COUNTY.

ALL ITEMS OF WORK REQUIRED UNDER THIS CONTRACT NOT SPECIFICALLY CALLED FOR IN THE PROPOSAL AS PAY ITEMS SHALL BE CONSIDERED INCIDENTAL TO THE VARIOUS BID ITEMS AND NO SEPARATE PAYMENT SHALL BE MADE FOR SAME.

BID #B151017

Proposal – Page 16 of 16

State of Texas Tax Statement of Materials and other charges:

The cost of in-place materials to be
incorporated into the project

\$ _____

The cost of labor, profit, materials
not in-place and all other charges

\$ _____

TOTAL: (Must agree with bid)

\$ _____

CONTRACT AWARD

CONTRACT FOR: LEE & JOE JAMAIL BAY PARK

THIS CONTRACT IS ENTERED INTO BETWEEN GALVESTON COUNTY AND THE CONTRACTOR NAMED BELOW PURSUANT TO SUBCHAPTER B, CHAPTER 271, TEXAS LOCAL GOVERNMENT CODE, AND THE REFERENCED INVITATION TO BID.

Contract No: _____

Bid No: _____

Contractor: _____

The Specifications and Drawings are enumerated as follows:

Standard Specifications: **Standard Specifications for Construction And Maintenance of Highways, Streets, and Bridges; Adopted by the Texas Department Of Transportation, November 1, 2014**

Special Provisions: **To Items 1 thru 9
To Item 110
To Item 247
To Item 491
To Item 506**

Special Items: **15001 Prefabricated Bridge
16050 Electrical Construction**

DRAWINGS: **Lee & Joe Jamail Bay Park Sheets 1 Thru 97**

ADDENDA: _____

Contract Award (continued)

Sections I (Invitation to Bid; General Provisions; Vendor Qualification Packet; Instructions to Bidders), II (Bid Proposal; Contract Award), III (Special Terms and Conditions, [including Addenda]; Wage Rates & AIA Forms), IV (General Terms and Conditions; Debarment Acknowledgement Form), V (Specifications) and VI (Plans) attached to this Contract Award are all made a part of this Contract and collectively evidence and constitute the entire contract. Contractor shall furnish all materials, perform all of the work required to be done and do everything else required by these documents.

Time of Completion: The Contractor shall complete the work within 210 Calendar Days of the issuance of the notice to proceed. The time set forth for completion of the work is an essential element of the Contract.

The Contract Sum: The County shall pay the Contractor for performance of the Contract, the sum of _____ Dollars and ___/100 (\$_____), payments to be made as described herein.

Performance Bond required: (x) yes () no

Payment Bond required: (x) yes () no

This Contract is issued pursuant to award made by Commissioners' Court on _____.

EXECUTED this ____ day of _____, 20__.

COUNTY OF GALVESTON, TEXAS

BY: _____
MARK HENRY, County Judge

ATTEST:

DWIGHT D. SULLIVAN, County Clerk

CONTRACTOR

BY: _____
Signature - Title

Printed Name

SECTION III

Special Terms and Conditions

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SPECIAL TERMS AND CONDITIONS

CONTRACT FOR: LEE & JOE JAMAIL BAY PARK

In the event of a conflict between any provision of these Special Terms and Conditions and any other section or provision of this bid package or a contract awarded under this bid, the Special Terms and Provisions control. If you need additional information, contact the Project Administrator.

SCOPE:

It is the intent of these specifications to secure a contract to furnish labor, equipment, materials and incidentals as required to:

Boat Ramp:

- a) Remove existing riprap and construct the sheetpile bulkhead/boat ramp foundation;
- b) Build boat ramp to the lines and grades shown on the plans;
- c) Install concrete retaining wall as shown on the plans;
- d) Drive piles for boat docks and construct dock decking;
- e) Install relocated/new riprap to the lines and grades shown on the plans;
- f) Remove asphalt surface and base and excavate surficial material in the area of the parking lot, provide and compact fill material to the lines and grades shown on the plans, treat subgrade, and install concrete parking lot; and
- g) Install lighting, landscaping, drainage, and miscellaneous features.

Washington Park:

- a) Remove existing riprap and construct the sheetpile bulkhead;
- b) Install concrete retaining wall as shown on the plans;
- c) Drive piles for fishing piers and construction pier decking;
- d) Install relocated/new riprap to the lines and grades shown on the plans;
- e) Remove asphalt surface and base and excavate surficial material in the area of the parking lot/sidewalk, provide and compact fill material to the lines and grades shown on the plans, treat subgrade, and install concrete parking lot/sidewalk; and
- f) Install lighting, landscaping, and drainage features; and
- g) Install pavilions, picnic table, and other site furnishings

Pedestrian Bridge:

- a) Install concrete abutments and cast-in-place decking as shown in plans;
- b) Drive piles for bents and install prefabricated bridge section;
- c) Install decking to the lines and grades shown on the plans;
- d) Install bridge railing and lighting

The work to be performed will be administered by the County's Program Administrator,

for purposes of this Contract is:

Name: G. Michael Fitzgerald, P.E., County Engineer
Address: 722 Moody, 1st Floor, Galveston, Texas 77550
Telephone No.: (409) 770-5549

GENERAL

All advance warning signs to be set two weeks prior to the start of construction activities and to remain in place until all construction activities are complete and accepted by Galveston County.

For this project the Contractor will furnish and maintain all barricades and warning signs, including all temporary and portable traffic control devices necessary during the various phases of construction. These barricades and warning signs shall be constructed and placed in accordance with the barricades and construction standards, latest Texas MUTCD, and typical construction layouts, or as directed by the Engineer.

The Contractor shall be responsible for controlling excess dust, loose rocks and any other material produced by the work. The Contractor shall use methods which are reasonable and practical to control these problems.

SURVEY DATA

The plans reflect conditions based on both a pre-Hurricane Ike survey and a post-Hurricane Ike survey. The entire project was surveyed pre-Hurricane Ike. After Hurricane Ike, new bathymetric survey was obtained only. Quantities shown in the Proposal related to surface improvements are estimated quantities based on the pre-Hurricane Ike survey. Quantities shown in the Proposal related to sub-surface improvements are estimated quantities based on the post-Hurricane Ike survey.

COORDINATION

The Contractor will be required to coordinate his efforts with the Galveston County Department of Parks & Cultural Services Director or his designee at (409) 934-8100 for access to the site and allowable working hours.

MATERIAL STORAGE

Mixing of materials, storing of materials, storing of equipment, or repairing of equipment on top of pavement or bridge decks will not be permitted unless specifically authorized by the ENGINEER. Permission will be granted to store materials on subject surfaces if no damage or discoloration will result.

MATERIAL HAULING

Hauling of materials will not be paid for directly, but shall be considered as subsidiary work pertaining to the respective bid items. Haul routes for full and empty loads shall be restricted to State Highways. Hauling of equipment is also restricted to State Highways. The Contractor shall be responsible for clean-up of any material spilled or dropped on roadways.

VERTICAL AND HORIZONTAL CONTROL

Vertical and horizontal control points will be provided by the Design Engineer. All construction surveying and staking will be done by the Contractor.

SUSPENSION OF WORK

In case of suspension of work for any cause, the Contractor shall be responsible for the preservation of all materials. He shall provide suitable drainage of the site and shall erect temporary structures where required. The Contractor shall maintain the site in good and passable condition until final acceptance.

ABATEMENT AND MITIGATION OF EXCESSIVE OR UNNECESSARY CONSTRUCTION NOISE

Throughout all phases of the construction of this project, including the moving, unloading, operating and handling of construction equipment prior to commencement of work, during the project and after the work is complete, the Contractor shall make every reasonable effort to minimize the noise imposed upon the immediate neighborhood surrounding the area of construction. Particular and special efforts shall be exercised by the Contractor to avoid the creation of unnecessary noise impacts on adjacent sensitive receptors in the placement of non-mobile equipment such as air compressors, generators, pumps, etc. The placement of temporary parked mobile equipment with the engine running shall be such as to cause the least disruption of normal adjacent activities not associated with the work to be performed by the Contractor.

All equipment associated with the work shall be equipped with components designed by the manufacturer wholly or in part to suppress excessive noise and these components shall be maintained in their original operating condition considering normal depreciation. Noise-attenuation devices installed by the manufacturer such as mufflers, engine covers, insulation, etc., shall not be removed nor rendered ineffectual nor be permitted to remain off the equipment while the equipment is in use.

WORKING HOURS

Work shall not be commenced by the Contractor before sunrise and shall be so conducted that all equipment is off the road and safely stored by sunset. Specific permission shall be obtained by the Contractor from the Engineer for work during those hours between 7:00 P.M. and 6:00 A.M. of the following day.

LIQUIDATED DAMAGES

Liquidated damages in the amount of One Thousand dollars (\$ 1,000) per day will be assessed for each day beyond the time of completion that the work is not substantially complete.

TIME OF COMPLETION

Time of Completion of this project is 210 calendar days from the date of the Notice to Proceed.

PIPELINE, UTILITY LOCATIONS AND CONTRACTOR RESPONSIBILITY

An effort to determine all pipelines and utilities which may impact the project has been made. All known pipelines and utilities have been approximately located and shown on the plans. The Contractor shall notify all utility and pipeline owners before beginning the work. Additional unknown utilities and pipelines may be found. Adjustments of these utilities or pipelines shall be done by others at no expense to the Contractor. However, the Contractor shall cooperate and coordinate his work with the adjustment.

The Contractor will anticipate this in making his bid. The Contractor will not be allowed claims for damages or delays for these adjustments should they be necessary. However, additional time will be considered for the contract period.

This action, however, shall in no way be interpreted as relieving the Contractor of his responsibilities under the terms of the contract as set out in the plans and specifications. The Contractor shall repair any damage to the facilities caused by his operations at the Contractor's expense and shall restore facilities to service in a timely manner.

BUILDER'S RISK INSURANCE

Builder's Risk Insurance at this time is applicable to the boat docks. Professional Liability Insurance will not be required for this project.

EXPERIENCE

All bidders must have done a like project within the last two years.

EXCESS, WASTE MATERIAL AND DEBRIS

All excess material, waste material and debris shall become the property of the Contractor and shall be properly disposed of off-site. No separate payment shall be made for same.

LABOR AND EQUIPMENT

All labor and equipment furnished by the Contractor will be considered subsidiary to the various bid items and will not be paid for directly.

FIELD OFFICE

For this project the Contractor will not have to provide a field office.

INCIDENTALS

All items of work required under this contract not specifically called for in the proposal as pay items shall be considered incidental to the various bid items and no separate payment shall be made for same.

FLAGMEN

During certain phases of construction flagmen may be required to direct and control traffic. This work will not be paid for directly, but shall be considered incidental to all other bid items.

SHOP DRAWINGS AND SUBMITTALS

Within 30 days after the date of Notice to Proceed, Contractor to submit for Engineer's review a complete Shop Drawing Submittal List. The list to include shop drawings for all equipment and manufactured materials to be furnished under this Contract. List should include, but not be limited to, the following.

- 1) Each submittal to be numbered with a consecutive numbering system.
- 2) Name (description) of submittal.
- 3) Applicable specification number or drawing number.
- 4) Scheduled submission date.
- 5) Latest date acceptable submittal required to prevent delay in purchase.

The Engineer may waive all or portions of the submittal requirements for any shop drawing on the Submittal List.

The Contractor may not begin construction on the Project until the Submittal List is accepted by the Engineer.

Contractor's Duties. The Contractor is to review shop drawings prior to submittal to verify field measurements, field construction criteria, manufacturer model number and other pertinent data, conformance to Contract Documents, coordination with other submittals, and schedule for submittal and review.

Contractor to stamp and sign submittals with stamp which states "This submittal is certified to be in conformance with Contract Documents unless noted herein." All submittals without this certification will not be reviewed but will be returned to the Contractor for proper submission. The Engineer will rely on this statement when performing the review of the submittal.

Contractor to schedule submittals to allow sufficient time for review process and to coordinate submittals with schedule to prevent delay to Work.

No Work to be performed in connection with fabrication, manufacturer, or purchase of materials or equipment until submittals have been reviewed and marked "No Exception Taken" or "Make Corrections Noted." Work performed on submittals marked "Make Corrections Noted" to be in accordance with all corrections noted thereon.

Contractor to correct submittal and resubmit or to prepare new submittal for review by Engineer for all submitted Items marked "Submit Specified Item," "Rejected," or "Revise and Resubmit." No claims for extra time or delays will be considered due to time required for review of submittals or resubmittals.

Engineer's Duties. Engineer to review submittals as quickly as possible consistent with a thorough review and consistent with type of information submitted.

Such review by the Engineer shall be for the sole purpose of determining the general conformity of said shop drawings or schedules to the Contract and shall not relieve the Contractor of his duty as an independent Contractor as previously set forth, it being expressly understood and agreed that the Engineer does not assume any duty to pass upon the propriety or adequacy of such drawings or schedules or any means or methods reflected thereby, in relation to the safety of either person or property during Contractor's performance hereunder. The Engineer's review of drawings will not constitute an acceptance of all dimensions, quantities, and details of the material, equipment, device, or item shown and does not relieve the Contractor from any responsibility for errors or deviations from the Contract requirements.

Engineer will provide an electronic copy of submittals with required corrections.

Engineer will stamp drawing noting the appropriate action and will sign and date stamp.

Form of Submittal. Contractor will submit four copies of all submittals. Once copy of appropriately marked submittal will be retained at the Engineer's office, one copy will be retained at the Engineer's field office, and two copies will be returned to the Contractor for Contractor's use. Engineer will not mark additional copies for the Contractor. If the Contractor desires additional copies, they must be marked by the Contractor. Alternatively, the Contractor may submit the shop drawing and submittals electronically.

Contractor to submit a complete copy of relevant Contract Document items which has been marked by the manufacturer to certify each point of the Contract Document item noting compliance and each point of deviation.

Contractor to submit relevant literature, catalog cuts, or written descriptive matter backing up all points of the Contract Document item compliance.

Contractor to submit comparative life cycle, cost, performance, or other data supporting consideration of all points of the Contract Document item deviation.

All information supplied to be carefully and completely cross-referenced to the relevant

Contract Document item requirement.

When required by an individual Contract Document item, Contractor to submit written step-by-step test plan for functional checkout and demonstration test of respective equipment. Submissions that do not conform to the Form of Submittal as outlined herein will not be considered and will be returned to the Contractor for proper submission.

Contractor to have acceptable shop drawings at the site of the Work. Failure of the Contractor to supply acceptable drawings will be deemed sufficient cause to delay the Work until such drawings are available. This procedure shall not be considered cause for claims for delay.

Installation Drawings. When required by individual Items of the Technical Specifications, provide, for the Engineer's use, two copies of installation drawings and instructions consisting of all necessary details required for field assembly, erection, and installation of a particular component of Work, including, but not limited to, unloading and storage instructions, layout/placement drawings, erection sequences, assembly drawings, connection details, and wiring diagrams.

SPECIAL REQUIREMENTS:

- 1) The attached schedule of wages per hour for this Contract follow:

General Decision Number: TX150056 01/02/2015 TX56

Superseded General Decision Number: TX20140056

State: Texas

Construction Type: Highway

Counties: Austin, Brazoria, Chambers, Fort Bend, Galveston, Hardin, Harris, Jefferson, Liberty, Montgomery, Orange, San Jacinto and Waller Counties in Texas.

HIGHWAY CONSTRUCTION PROJECTS (excluding tunnels, building structures in rest area projects & railroad construction; bascule, suspension & spandrel arch bridges designed for commercial navigation, bridges involving marine construction; and other major bridges).

Note: Executive Order (EO) 13658 establishes an hourly minimum wage of \$10.10 for 2015 that applies to all contracts subject to the Davis-Bacon Act for which the solicitation is issued on or after January 1, 2015. If this contract is covered by the EO, the contractor must pay all workers in any classification listed on this wage determination at least \$10.10 (or the applicable wage rate listed on this wage determination, if it is higher) for all hours spent performing on the contract. The EO minimum wage rate will be adjusted annually. Additional information on contractor requirements and worker protections under the EO is available at www.dol.gov/whd/govcontracts.

Modification Number	Publication Date
0	01/02/2015

* SUTX2011-013 08/10/2011

	Rates	Fringes
CEMENT MASON/CONCRETE FINISHER (Paving and Structures).....	\$ 12.98	
ELECTRICIAN.....	\$ 27.11	
FORM BUILDER/FORM SETTER		
Paving & Curb.....	\$ 12.34	
Structures.....	\$ 12.23	
LABORER		
Asphalt Raker.....	\$ 12.36	
Flagger.....	\$ 10.33	
Laborer, Common.....	\$ 11.02	
Laborer, Utility.....	\$ 11.73	
Pipelayer.....	\$ 12.12	
Work Zone Barricade Servicer.....	\$ 11.67	
PAINTER (Structures).....	\$ 18.62	

POWER EQUIPMENT OPERATOR:

Asphalt Distributor.....	\$ 14.06
Asphalt Paving Machine.....	\$ 14.32
Broom or Sweeper.....	\$ 12.68
Concrete Pavement	
Finishing Machine.....	\$ 13.07
Concrete Paving, Curing,	
Float, Texturing Machine....	\$ 11.71
Concrete Saw.....	\$ 13.99
Crane, Hydraulic 80 Tons	
or less.....	\$ 13.86
Crane, Lattice boom 80	
tons or less.....	\$ 14.97
Crane, Lattice boom over	
80 Tons.....	\$ 15.80
Crawler Tractor.....	\$ 13.68
Excavator, 50,000 pounds	
or less.....	\$ 12.71
Excavator, Over 50,000	
pounds.....	\$ 14.53
Foundation Drill, Crawler	
Mounted.....	\$ 17.43
Foundation Drill, Truck	
Mounted.....	\$ 15.89
Front End Loader 3 CY or	
Less.....	\$ 13.32
Front End Loader, Over 3 CY.	\$ 13.17
Loader/Backhoe.....	\$ 14.29
Mechanic.....	\$ 16.96
Milling Machine.....	\$ 13.53
Motor Grader, Fine Grade....	\$ 15.69
Motor Grader, Rough.....	\$ 14.23
Off Road Hauler.....	\$ 14.60
Pavement Marking Machine....	\$ 11.18
Piledriver.....	\$ 14.95
Roller, Asphalt.....	\$ 11.95
Roller, Other.....	\$ 11.57
Scraper.....	\$ 13.47
Spreader Box.....	\$ 13.58

Servicer.....\$ 13.97

Steel Worker

Reinforcing Steel.....	\$ 15.15
Structural Steel Welder.....	\$ 12.85
Structural Steel.....	\$ 14.39

TRUCK DRIVER

Low Boy Float.....	\$ 16.03
Single Axle.....	\$ 11.46
Single or Tandem Axle Dump..	\$ 11.48
Tandem Axle Tractor w/Semi	
Trailer.....	\$ 12.27

WELDERS - Receive rate prescribed for craft performing operation to which welding is incidental.

=====

Unlisted classifications needed for work not included within the scope of the classifications listed may be added after award only as provided in the labor standards contract clauses (29CFR 5.5 (a) (1) (ii)).

The body of each wage determination lists the classification and wage rates that have been found to be prevailing for the cited type(s) of construction in the area covered by the wage determination. The classifications are listed in alphabetical order of "identifiers" that indicate whether the particular rate is a union rate (current union negotiated rate for local), a survey rate (weighted average rate) or a union average rate (weighted union average rate).

Union Rate Identifiers

A four letter classification abbreviation identifier enclosed in dotted lines beginning with characters other than "SU" or "UAVG" denotes that the union classification and rate were prevailing for that classification in the survey. Example: PLUM0198-005 07/01/2014. PLUM is an abbreviation identifier of the union which prevailed in the survey for this classification, which in this example would be Plumbers. 0198 indicates the local union number or district council number where applicable, i.e., Plumbers Local 0198. The next number, 005 in the example, is an internal number used in processing the wage determination. 07/01/2014 is the effective date of the most current negotiated rate, which in this example is July 1, 2014.

Union prevailing wage rates are updated to reflect all rate changes in the collective bargaining agreement (CBA) governing this classification and rate.

Survey Rate Identifiers

Classifications listed under the "SU" identifier indicate that no one rate prevailed for this classification in the survey and the published rate is derived by computing a weighted average rate based on all the rates reported in the survey for that classification. As this weighted average rate includes all rates reported in the survey, it may include both union and non-union rates. Example: SULA2012-007 5/13/2014. SU indicates the rates are survey rates based on a weighted average calculation of rates and are not majority rates. LA indicates the State of Louisiana. 2012 is the year of survey on which these classifications and rates are based. The next number, 007 in the example, is an internal number used in producing the wage determination. 5/13/2014 indicates the survey completion date for the classifications and rates under that identifier.

Survey wage rates are not updated and remain in effect until a new survey is conducted.

Union Average Rate Identifiers

Classification(s) listed under the UAVG identifier indicate

that no single majority rate prevailed for those classifications; however, 100% of the data reported for the classifications was union data. EXAMPLE: UAVG-OH-0010 08/29/2014. UAVG indicates that the rate is a weighted union average rate. OH indicates the state. The next number, 0010 in the example, is an internal number used in producing the wage determination. 08/29/2014 indicates the survey completion date for the classifications and rates under that identifier.

A UAVG rate will be updated once a year, usually in January of each year, to reflect a weighted average of the current negotiated/CBA rate of the union locals from which the rate is based.

WAGE DETERMINATION APPEALS PROCESS

1.) Has there been an initial decision in the matter? This can be:

- * an existing published wage determination
- * a survey underlying a wage determination
- * a Wage and Hour Division letter setting forth a position on a wage determination matter
- * a conformance (additional classification and rate) ruling

On survey related matters, initial contact, including requests for summaries of surveys, should be with the Wage and Hour Regional Office for the area in which the survey was conducted because those Regional Offices have responsibility for the Davis-Bacon survey program. If the response from this initial contact is not satisfactory, then the process described in 2.) and 3.) should be followed.

With regard to any other matter not yet ripe for the formal process described here, initial contact should be with the Branch of Construction Wage Determinations. Write to:

Branch of Construction Wage Determinations
Wage and Hour Division
U.S. Department of Labor
200 Constitution Avenue, N.W.
Washington, DC 20210

2.) If the answer to the question in 1.) is yes, then an interested party (those affected by the action) can request review and reconsideration from the Wage and Hour Administrator (See 29 CFR Part 1.8 and 29 CFR Part 7). Write to:

Wage and Hour Administrator
U.S. Department of Labor
200 Constitution Avenue, N.W.
Washington, DC 20210

The request should be accompanied by a full statement of the interested party's position and by any information (wage payment data, project description, area practice material, etc.) that the requestor considers relevant to the issue.

3.) If the decision of the Administrator is not favorable, an interested party may appeal directly to the Administrative Review Board (formerly the Wage Appeals Board). Write to:

Administrative Review Board
U.S. Department of Labor
200 Constitution Avenue, N.W.
Washington, DC 20210

4.) All decisions by the Administrative Review Board are final.

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END OF GENERAL DECISION



General Decision Number: TX150094 01/02/2015 TX94

Superseded General Decision Number: TX20140094

State: Texas

Construction Type: Heavy

County: Galveston County in Texas.

HEAVY CONSTRUCTION PROJECTS Including Water and Sewer Lines
(Does Not Include Flood Control)

Note: Executive Order (EO) 13658 establishes an hourly minimum wage of \$10.10 for 2015 that applies to all contracts subject to the Davis-Bacon Act for which the solicitation is issued on or after January 1, 2015. If this contract is covered by the EO, the contractor must pay all workers in any classification listed on this wage determination at least \$10.10 (or the applicable wage rate listed on this wage determination, if it is higher) for all hours spent performing on the contract. The EO minimum wage rate will be adjusted annually. Additional information on contractor requirements and worker protections under the EO is available at www.dol.gov/whd/govcontracts.

Modification Number	Publication Date
0	01/02/2015

* SFTX0669-001 07/01/2013

	Rates	Fringes
SPRINKLER FITTER (Fire Sprinklers).....	\$ 26.36	16.62

SUTX2005-021 08/05/2005		

HEAVY Including Water and Sewer Lines (Excluding Flood Control)

	Rates	Fringes
Carpenter.....	\$ 14.38	
Cement mason/concrete finisher.....	\$ 11.37	1.13
Electrician.....	\$ 18.40	1.34
FORM BUILDER/FORM SETTER.....	\$ 13.35	1.17
IRONWORKER, REINFORCING.....	\$ 11.29	
Laborers:		
Common.....	\$ 10.70	
Landscape.....	\$ 7.35	
Mason Tender Cement.....	\$ 9.96	
Pipelayer.....	\$ 10.07	
PIPEFITTER.....	\$ 17.00	0.04

Power equipment operators:

Excavator.....	\$ 16.74	
Backhoe.....	\$ 13.25	
Bulldozer.....	\$ 14.00	
Crane.....	\$ 14.91	0.58
Front End Loader.....	\$ 11.75	0.92
Grader.....	\$ 12.20	1.48
Tractor.....	\$ 12.38	1.51

TRUCK DRIVER.....\$ 12.28 0.98

WELDERS - Receive rate prescribed for craft performing operation to which welding is incidental.

=====
Unlisted classifications needed for work not included within the scope of the classifications listed may be added after award only as provided in the labor standards contract clauses (29CFR 5.5 (a) (1) (ii)).

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A UAVG rate will be updated once a year, usually in January of each year, to reflect a weighted average of the current negotiated/CBA rate of the union locals from which the rate is based.

WAGE DETERMINATION APPEALS PROCESS

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- * a survey underlying a wage determination
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Branch of Construction Wage Determinations

Wage and Hour Division
U.S. Department of Labor
200 Constitution Avenue, N.W.
Washington, DC 20210

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U.S. Department of Labor
200 Constitution Avenue, N.W.
Washington, DC 20210

The request should be accompanied by a full statement of the interested party's position and by any information (wage payment data, project description, area practice material, etc.) that the requestor considers relevant to the issue.

3.) If the decision of the Administrator is not favorable, an interested party may appeal directly to the Administrative Review Board (formerly the Wage Appeals Board). Write to:

Administrative Review Board
U.S. Department of Labor
200 Constitution Avenue, N.W.
Washington, DC 20210

4.) All decisions by the Administrative Review Board are final.

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END OF GENERAL DECISION



THIS SHEET INTENTIONALLY LEFT BLANK

CONSENT OF SURETY COMPANY TO FINAL PAYMENT

TO (Owner):

PROJECT NO:

PROJECT:
(name, address)

CONTRACT FOR:

CONTRACT DATE:

CONTRACTOR:

In accordance with the provisions of the Contract between the Owner and the Contractor as indicated above, the
(here insert name and address of Surety as it appears in the bond).

, SURETY COMPANY,

on bond of (here insert name and address of Contractor)

, CONTRACTOR,

hereby approves of the final payment to the Contractor, and agrees that final payment to the Contractor shall not relieve the Surety
Company of any of its obligations to (here insert name and address of Owner)

, OWNER,

as set forth in the said Surety Company's bond.

IN WITNESS WHEREOF,
the Surety Company has hereunto set its had this

day of _____ 20__ .

Surety Company

Signature of Authorized Representative

Title

ATTEST:
(Seal):

NOTE: This form is to be use as a companion document to Contractor's Affidavit of Payment of Debts and Claims.

CONTRACTOR'S AFFIDAVIT OF RELEASE OF LIEN

TO (Owner):

PROJECT NO:

CONTRACT FOR:

PROJECT:
(name, address)

CONTRACT DATE:

State of:

County of:

The undersigned, hereby certifies that, to the best of his knowledge, information and belief, except as listed below, the Releases or Waivers of Lien attached hereto include the Contractor, all Subcontractors, all suppliers of materials and equipment, and all performers of Work, labor or services who have or may have liens against any property of the Owner arising in any manner out of the performance of the Contract referenced above.

EXCEPTIONS: (If none, write "None". If required by the Owner, the Contractor shall furnish bond satisfactory to the Owner for each exception.)

SUPPORTING DOCUMENTS ATTACHED HERETO:

1. Contractor's Release or Waiver of Liens, conditional upon receipt of final payment.
2. Separate Releases or Waivers of Liens from Sub-contractors and material and equipment suppliers, to the extent required by the Owner, accompanied by a list thereof.

CONTRACTOR:

Address:

BY:

Subscribed and sworn to before me this

day of _____ 20__

Notary Public:

My Commission Expires:

CONTRACTOR'S AFFIDAVIT OF PAYMENT OF DEBTS AND CLAIMS

TO (Owner):

PROJECT NO:

CONTRACT FOR:

PROJECT:
(name, address)

CONTRACT DATE:

State of:

County of:

The undersigned, hereby certifies that, except as listed below, he has paid in full or has otherwise satisfied all obligations for all materials and equipment furnished, for all work, labor, and services performed, and for all known indebtedness and claims against the Contractor for damages arising in any manner in connection with the performance of the Contract referenced above for which the Owner or his property might in any way be held responsible.

EXCEPTIONS: (If none, write "None". If required by the Owner, the Contractor shall furnish bond satisfactory to the Owner for each exception.)

SUPPORTING DOCUMENTS ATTACHED HERETO:

1. Consent of Surety to Final Payment.
Whenever Surety is involved, consent of Surety is required. CONSENT OF SURETY, may be used for this purpose.
Indicate attachment: yes _____ no _____

The following supporting documents should be attached hereto if required by the Owner:

1. Contractor's Release or Waiver of Liens, conditional upon receipt of final payment.
2. Separate Releases or Waivers of Liens from Subcontractors and material and equipment suppliers to the extent required by the Owner, accompanied by a list thereof.
3. Contractor's Affidavit of Release of Liens.

CONTRACTOR:

Address:

BY:

Subscribed and sworn to before me this

day of _____ 20

Notary Public:

My Commission Expires:

CONSENT OF SURETY TO REDUCTION IN OR PARTIAL RELEASE OF RETAINAGE

TO (Owner):

PROJECT NO:

PROJECT:
(name, address)

CONTRACT FOR:

CONTRACT DATE:

In accordance with the provisions of the Contract between the Owner and the Contractor as indicated above, the
(here insert name and address of Surety as it appears in the bond).

, SURETY,

on bond of (here insert name and address of Contractor as it appears in the bond)

, CONTRACTOR,

hereby approves the reduction in or partial release of retainage to the contractor as follows:

The Surety agrees that such reduction in or partial release of retainage to the Contractor shall not relieve the Surety of any of its
obligations to (here insert name and address of Owner)

, OWNER,

as set forth in the said Surety's bond.

IN WITNESS WHEREOF,
the Surety has hereunto set its had this

day of

20 .

Surety

Signature of Authorized Representative

Title

ATTEST:
(Seal):

SECTION IV

General Terms and Conditions

THIS SHEET INTENTIONALLY LEFT BLANK

GENERAL TERMS AND CONDITIONS

1. COUNTY AS OWNER

The word "County" in this contract refers to the County of Galveston.

2. CONTRACTOR

The word "Contractor" refers to the person or entity agreeing to perform the work in this contract.

3. PROGRAM ADMINISTRATOR

The term "Program Administrator" refers to the person designated by County to act on its behalf in administering this contract.

4. STATUS OF CONTRACTOR

The Contractor shall at all times be considered to be an independent contractor, and will not hold itself or its employees out to be employees or agents of the County of Galveston.

The Contractor shall provide, at the Contractor's expense, competent, full-time supervision of the work while actually in progress.

5. ASSIGNMENT AND SUBLETTING

The Contractor will retain full control over this contract and will not assign or subcontract said contract without the prior written consent of the County. The Contractor further agrees that the subcontracting of any portion or feature of the work shall not relieve the Contractor from its full obligations under this contract.

6. EQUAL OPPORTUNITY

The Contractor and all Subcontractors shall not discriminate against any employee or applicant for employment because of race, religion, color, sex, or national origin.

The Contractor agrees to post in conspicuous places, available to employees and applicants for employment, notices setting forth the policies of non-discrimination.

7. CONTRACT

This contract consists of the following documents; Invitation to Bid, Instructions to Bidders, Bid Proposal, Contract Award, Special Terms and Conditions (including specifications, drawings and addenda), General Terms and Conditions, and any other documents referenced herein or attached hereto for the work. Collectively these documents may also be referred to as the Plans and Specifications.

8. DISCREPANCIES AND OMISSIONS

In the event of any discrepancy between the Plans and Specifications, or otherwise, or in the event of any doubt as to the meaning and intent of any portion of the Plans and Specifications, the Program Administrator shall define which is intended to apply to the work. Such definition shall be final and binding on Contractor.

9. COLLATERAL CONTRACT

The County reserves the rights to provide by separate contract or otherwise, in such manner as not to delay its programs or damage said Contractor, all labor and material essential to the completion of the work that is not included in this contract.

10. TIME

The Contractor is advised that time for completion will consist of the number of calendar days set out in the Contract Award.

The time for completion will begin to run on the day after the issuance of a notice to proceed by the Program Administrator. The Contractor is required to start work no later than ten (10) working days after the issuance of the written notice to proceed. Failure to timely commence operations may be deemed by the County to be a default. The Contractor will complete the work at that site within the time period specified. If there is more than one site listed on the notice to proceed, work for all sites must be completed not later than is specified for each site by the Program Administrator.

11. TIME AND ORDER OF COMPLETION

The Contractor will commence work within ten (10) working days after the issuance of the notice to proceed and will substantially complete it within the time specified in the Contract Award.

By the term "substantially completed" is meant that work shall be fully completed with the exception of minor miscellaneous work and adjustment.

12. EXTENSION OF TIME

Should the Contractor be delayed in the completion of the work by an act or neglect of the County or Program Administrator, or by any employee of either, or by other Contractors employed by the County, or by changes ordered in the work, or by strikes, lockouts, fire, or unusual delays by common carriers, or unavoidable cause or causes beyond the Contractor's control or by any cause which the Program Administrator shall decide justifies the delay, then an extension of time shall be allowed for completing the work sufficient to compensate for the delay. The Contractor shall give the Program Administrator prompt notice in writing of the cause of such delay. The amount of the extension will be determined by the Program Administrator.

13. LOSSES FROM NATURAL CAUSES

All damage to the work from the action of the elements, or from any unforeseen circumstances in the prosecution of the work shall be repaired by the Contractor at his own cost.

14. KEEPING OF PLANS AND SPECIFICATIONS ACCESSIBLE

The Contractor shall keep one (1) copy of all Plans and Specifications constantly accessible at the work site and available for inspection at all times.

15. PERFORMANCE OF WORK

All work shall be performed and completed in a thorough, workmanlike manner and in accordance with the latest proven practices of the trade by thoroughly skilled and experienced workers.

16. STORAGE AND CLEANUP

The County does not assume responsibility for any materials, tools, or equipment stored on or about the worksite. The worksite shall be cleared of debris by the Contractor continuously through the progress of the work and also upon final completion of the work.

17. WORKING HOURS

Contractor may perform work twenty four hours a day, seven days a week, unless otherwise restricted by the Special Conditions of this contract.

18. WORKSITE SECURITY

Contractor shall maintain the security of the worksite and shall restrict access to the site to the following:

- a) its employees;
- b) employees of subcontractors;
- c) representatives of manufacturers whose goods are utilized in the work and are called to the site by either the Contractor or the Program Administrator; and
- d) agents and/or employees of the County.

Contractor shall provide adequate protection to persons on the worksite, adjacent properties, and utilities as is necessary to keep each free of damage or injury. Contractor shall furnish all barricades, warning lights and other safety devices necessary for the safety and protection of the public and shall remove them upon completion of the work performed on those premises under the terms of this contract.

Contractor will have complete control over the work site and shall be fully responsible for any loss of or damage to any County property from any cause and will reimburse County in the event of any loss or damage to County's property from any cause.

Contractor shall take proper means to protect adjacent or adjoining properties which might be injured or seriously effected by construction undertaken under this Agreement from any damage or injury by reason of said process of construction. Contractor shall be liable for any and all claims for such damage on account of its failure to fully protect all adjoining properties.

19. ALCOHOL/DRUG FREE WORKPLACE

The County is committed to maintaining an alcohol and drug free workplace. Possession, use or being under the influence of alcohol or controlled substances by the Contractor's employees while in the performance of this Contract is prohibited. Violation of this requirement shall constitute grounds for immediate termination of the contract.

20. LABOR

Contractor is encouraged to use local labor, but not at the expense of poor workmanship and higher cost.

Contractor will not discriminate against any employee or applicant for employment because of race, religion, creed, color or national origin. Contractor agrees to post in a conspicuous place a notice setting forth provisions of this non-discrimination clause.

In the event of Contractor's non-compliance with the non-discrimination clause of this contract, the contract entered into may be canceled in whole or in part.

21. WAGE RATES

This Contract is a Public Works Contract governed by V.T.C.A., Government Code, Chapter 2258. That Act requires Contractor to pay workers not less than the general prevailing rate of per diem wages for work of a similar character in the locality in which the work is performed and not less than the general prevailing rate of per diem wages for legal holiday and overtime work.

Prevailing wage rates determined by the United States Department of Labor in accordance with the Davis-Bacon Act (40 U.S.C. Section 276a et seq) are used in this contract and are incorporated and made a part hereof.

In the event other crafts or types of workers are required than are listed therein, such workers shall be paid at a rate not less than the prevailing rate for similar workers in the Galveston County area.

Contractor acknowledges that:

A) Pursuant to V.T.C.A., Government Code §2258.022, a violation of the obligation to pay workers the prevailing wages shall result in Contractor paying the County the amount of \$60.00 for each worker employed for each calendar day or part of the day that the worker is paid less than the wage rates stipulated in the Contract; and

B) Contractors and Subcontractors shall be required to keep a record showing the name and occupation of each worker employed by Contractor or Subcontractor in the construction of the work called for in the contract and the actual per diem wages paid to each worker. The record shall be open at all reasonable hours to inspection by the officers and agents of the County.

Contractor represents it has read this law and the penalties provided prior to entering into this agreement.

22. UTILITIES

Contractor shall be responsible for any charges which may be made by any city or utility companies for the work to be performed by Contractor.

23. PARKING

Contractor shall be responsible for the expense of parking the Contractor's vehicle(s) in a legal manner and at no expense or inconvenience to the County.

24. FIRE AND SAFETY

Contractor is completely responsible for fire protection at the job site as well as the safety of its own employees as well as those entering onto the job site.

25. CONTRACTOR'S BUILDINGS

The building of structures for housing men, or the erection of tents or other forms of protection will be permitted only at such places as the Program Administrator shall permit, and the sanitary conditions of the grounds in or about such structures shall at all times be maintained in the manner satisfactory to the Program Administrator.

26. INSURANCE

Contractor shall obtain and pay for insurance set forth below prior to commencing work, and shall file with the Program Administrator certificates or copies of policies for approval and as proof of coverage:

- 1) Workmen's Compensation
 - a. State Statutory
 - b. Applicable - Statutory

- 2) Comprehensive General Liability (including Premises – Operations; Independent Contractor's Protective; Products and Completed Operations; Broad Form Property Damage)
 - a. Bodily Injury –
 - \$100,000.00 each person, each occurrence
 - \$300,000.00 Aggregate, each occurrence
 - b. Property Damage including loss of use –
 - \$100,000.00 Each occurrence
 - c. Products and Completed Operations to be maintained for 1 year after Final Payment
 - d. Property Damage Liability Insurance will provide X, C or U coverage as applicable

- 3) Contractual Liability
 - a. Bodily Injury
 - \$100,000.00 Each Person
 - \$300,000.00 Each occurrence
 - b. Property Damage
 - \$100,000.00 Each occurrence

- 4) Personal injury, with Employment Exclusion deleted:
 - \$100,000.00 Each occurrence

- 5) Comprehensive Automobile Liability (including owned, non-owned and hired motor vehicles):
 - a. Bodily Injury
 - \$100,000.00 Each Person
 - \$300,000.00 Each occurrence
 - b. Property Damage
 - \$100,000.00 Each occurrence

- 6) Builders Risk Insurance

The Contractor shall furnish one copy of each Certificate of Insurance herein required with each signed copy of the Agreement and prior to commencement of the work. The Contractor shall furnish to the Owner copies of any endorsements that are subsequently issued amending coverage or limits. Receipt of all required notices shall be evidenced by return receipt of registered or Certified letter. The policies shall contain provision that coverages will not be cancelled until at least thirty days' prior written notice has been given to the County. In the event of such notice of cancellation being given the Contractor will provide substitute policies with the same provisions to county prior to the effective date of such cancellation.

The above requirements do not establish limits of Contractor's liability.

Contractor shall at all times during the term of this contract and any extensions thereof maintain such insurance coverage.

Such insurance is to be provided at the sole cost of Contractor.

All policies of insurance shall waive all rights of subrogation against County, its officers, employees and agents.

The County shall be named as "additional insured" on such policies as are specified above.

The County reserves the right to require additional insurance should it be deemed necessary.

27. SANITATION

Necessary sanitary conveniences for the use of laborers at the worksite, properly secluded from the public observation, shall be constructed and maintained by Contractor in such manner at such points as shall be approved by the Program Administrator, and their use shall be strictly enforced.

28. DAILY CLEANUP

Contractor shall confine to the work site all materials and refuse generated by Contractor's operations. Materials which are stored on-site shall be stored in an orderly manner. Materials or refuse from demolition and/or removal operations which become scattered in adjacent areas shall be collected and returned to the work site and satisfactorily removed. Truck hauling materials must be covered to keep materials from littering streets.

29. FINAL GRADING

If grading is required, when work is complete, Contractor shall grade the site to fill in holes and make a presentable appearance without disturbing trees and add fill dirt if needed. Contractor may not leave voids in the grading and compaction of the property. The land shall have a smooth appearance without concrete, bricks, building materials, and other debris on the surface.

30. RIGHT OF ENTRY

County reserves the right to enter the property or location at which the work is being conducted, by such agents as it may elect, for the purpose of inspecting the work, or for the purpose of constructing or installing such collateral work as County may desire, or for any other purpose deemed necessary by County.

31. INSPECTION

County reserves the right to inspect the work done by Contractor at any time.

The inspection may include examination of the material furnished and the work done under this agreement to ensure compliance with the plans and specifications.

Contractor shall furnish all reasonable aid and assistance required by the inspector(s) for the proper inspection and examination of the work. The inspector(s) may make any order requiring remedy of deficient performance at any time. Should Contractor object to any order by any inspector, Contractor may, within 24 hours, make written appeal to the Program Administrator for his decision, which decision shall be final and binding on Contractor.

The approval or failure of an inspector to reject non complying work or materials shall not relieve Contractor of his obligation to perform the work in full compliance with the plans and specifications for the work.

Contractor shall be responsible for the costs associated by the exposing and covering of any item of concealed work for which an inspection is performed.

32. DEFECTS AND THEIR REMEDIES

It is further agreed that if the work or any part thereof, or any material brought on the ground for use in the work or selected for the same, shall be deemed by the Program Administrator as unsuitable or not in conformity with the specifications Contractor shall, after receipt of written notice thereof from the Program Administrator, forthwith remove such material and rebuild or otherwise remedy such work so that it shall be in full accordance with this contract.

33. SUBSTANTIAL COMPLETION

When the Contractor determines that the work is substantially complete, he shall advise the Program Administrator of such and schedule a time for the Program Administrator to inspect the work. Contractor shall have all systems fully functional and operational for the inspection of the Program Administrator. All phases of the work will be examined by the Program Administrator, who will note any deficiencies in the work and notify Contractor of the same.

The Program Administrator may acknowledge that the project is substantially complete if the work has been completed to the point where the work can be utilized for the general purpose for which it was undertaken; however, if the project is found not to be substantially complete, the Program Administrator will so advise the Contractor.

34. FINAL COMPLETION AND ACCEPTANCE

Within ten (10) days after Contractor has given the Program Administrator written notice that the work has been completed, or substantially completed, the Program Administrator shall inspect the work and, within said time, if the work be found to be completed or substantially completed in accordance with the plans and specifications, the Program Administrator shall issue a substantial completion certificate.

Should such inspection reveal deficiencies on the work, the Program Administrator will deliver a list of deficiencies to Contractor for immediate repair. No final payment will be made until all deficiencies have been remedied.

35. PARAGRAPH 35 HAS BEEN DELETED

36. PROGRESS PAYMENTS AND RETAINAGE

If this contract provides for the making of progress payments, Contractor shall make application to County for payment utilizing forms provided by County for that purpose. Contractor shall state the percentage or the limits of the work performed and request payment for the amount of acceptable work performed. Applications for payment shall be made monthly by Contractor.

The County shall then pay the Contractor on or before 45 days thereafter, the total amount of the request, less 5% of the amount thereof, which 5% shall be retained until final payments, and further less all previous payments, and further less all further sums that may be retained by the County under the terms of this agreement.

Upon the attainment of substantial completion, payment will be made so that the sum of all payments made under the contract equals Ninety Five Percent (95%) of the total contract amount.

37. ESTIMATED QUANTITIES

This Contract, including the specifications, plans and estimates, is intended to show clearly all the work to be done and material to be furnished hereunder. The estimated quantities of the various classes of work to be done and material to be furnished under this contract are approximate and are to be used as a basis for estimating the probable cost of the work and for comparing the proposals offered for the work. It is understood and agreed that the actual amount of work to be done and material to be furnished under this contract may differ somewhat from these estimates, and that the basis for payment under this contract shall be the plan quantity or actual amount of such work done whichever is specified. It is further understood that the County does not guarantee any minimum amount of work under this Contract.

Contractor agrees that it will make no claim for damages, anticipated profits or otherwise on account of any differences which may be found between the quantities of work actually done, the material actually furnished under this Contract and the estimated quantities contemplated and contained in the proposals.

38. CHANGES AND ALTERATIONS

Contractor further agrees that Program Administrator may make such changes and alterations as County may see fit, in the line, grade, form dimensions, plans or materials for the work herein contemplated, or any part thereof, either before or after the beginning of the contract construction, without affecting the validity of this Contract and the accompanying bonds.

If such changes or alterations diminish the quantity of the work to be done, they shall not constitute the basis for a claim for damages, or anticipated profits on the work that may be dispensed with. If they increase the amount of the work, and the increased work can fairly be classified under the specifications, such increase shall be paid for according to the quantity actually done and at the unit price established for such work under this contract; otherwise such additional work shall be paid for as provided under the paragraph entitled "EXTRA WORK". In case Program Administrator shall make such changes or alterations as shall make useless any work already done or material already furnished or used in said work, then County shall recompense Contractor for any material or labor so used, and for any actual loss occasioned by such change due to actual expenses incurred in preparation for the work as originally planned.

39. EXTRA WORK

The term "Extra Work" as used in this contract shall be understood to mean and include all work that may be required by the Program Administrator to be done by Contractor to accomplish any change, alteration or addition to the work shown in the plans and specifications.

It is agreed that Contractor shall perform all Extra Work under the direction of the Program Administrator when presented with a Written Work Order signed by the Program Administrator: subject, however, to the right of Contractor to require a written confirmation of such Extra Work Order by the County Commissioners' Court. It is also agreed that the compensation to be paid Contractor for performing said Extra Work shall be determined by one or more of the following methods:

Method (a) - By agreed unit prices; or

Method (b) - By agreed lump sum: or

Method (c) - If Neither Method (a) nor Method (b) can be agreed upon before the Extra Work is commenced, then Contractor shall be paid the "Actual field cost" of the work plus fifteen (15) percent.

In the event said Extra Work be performed and paid for under Method (c), then the provisions of this paragraph shall apply and the "actual field cost" is hereby defined to include the cost of all workmen, such as foremen, timekeepers, merchants, and laborers, and materials, supplies, teams, trucks, rentals on machinery and equipment for time actually employed or used on such Extra Work plus actual transportation charges necessarily incurred, if the kind of equipment or machinery is not already on the job, together with all power, fuel, lubricants, water and similar operating expenses, also all necessary incidental expenses incurred directly on account of such Extra Work including Social Security, Old Age Benefits and other payroll taxes, and a ratable proportion of premiums on Construction and Maintenance Bonds, Public Liability and Property Damage and Workmen's Compensation, and all other insurance as may be required by any law or ordinance, or directed by the Program Administrator or by him agreed. The Program Administrator may direct the form in which accounts of the "actual field cost" shall be kept and may also specify in writing, before the work commences, the method of doing the work and the type and kind of machinery and equipment to be used, otherwise these matters shall be determined by Contractor. Unless otherwise agreed upon, the prices for the use of machinery and equipment shall be determined by using the one hundred (100) percent of the actual hourly or daily rate (for the time used plus time in moving to and from Job) of the latest schedule of Equipment Ownership Expense adopted by the Association General Contractors of America. Where practicable the terms and prices for the use of Machinery and Equipment shall be incorporated in the Written Extra Work Order. The fifteen (15) percent of the "Actual Field Cost" to be paid Contractor shall cover and compensate him for his profit, overhead, general superintendence and field office expense, and all other elements of cost and expense not embraced within the 'actual field cost' as herein defined, save that where the Contractor's Camp or Field Office must be maintained primarily on account of such extra work, then the cost to

maintain and operate same shall be included in the "actual field cost".

No claim for extra work of any kind will be allowed unless ordered in writing by the Program Administrator. In case any orders or instructions, either oral or written appear to Contractor to involve extra work for which he should receive compensation, it shall make written request to the Program Administrator for written order authorizing Extra Work. Should a difference of opinion arise as to what does or does not constitute extra work, or as to the payment therefor, and the Program Administrator insists upon its performance, Contractor shall proceed with the work after making written order and shall keep an accurate account of the "actual field cost" thereof, as provided under Method (c) and by this action Contractor will thereby preserve the right to submit the matter of payment to litigation.

40. FINAL PAYMENT

Upon the issuance of the approval for payment, the Program Administrator shall certify same to County, who shall pay to Contractor the balance due Contractor under the terms of this agreement, provided it has fully performed its contractual obligations under the terms of this contract; and has provided County with a release of liens from all materialmen, suppliers and subcontractors utilized in the work.

41. HINDRANCES AND DELAYS

No charge shall be made by Contractor for hindrances or delays from any cause (except when work is stopped by order of the County) during the progress of any portion of the work embraced in this contract. In case said work shall be stopped by the act of Program Administrator then such expense as in the judgment of the Program Administrator is caused by stopping of said work shall be paid by County to Contractor.

42. TIME OF FILING CLAIMS

It is further agreed by both parties hereto that all questions of dispute or adjustment presented by Contractor shall be in writing and filed with the Program Administrator within a reasonable time after the Program Administrator has given any directions, order, or instruction to which Contractor desires to take exception. The Program Administrator shall reply to such written exceptions by Contractor and render his final decision in writing.

43. LIQUIDATED DAMAGES FOR DELAY

Contractor agrees that time is of the essence of this contract and that for each day of a delay of a day beyond the number of working days or calendar days herein agreed upon the completion of the work herein specified and contracted for (after due allowance for such extension of time as is provided for under Extension of Time hereinabove) County may withhold permanently from Contractor's total compensation the sum specified in the special conditions as liquidated damages for such delay.

44. ABANDONMENT BY CONTRACTOR

Should Contractor fail to start or resume work within ten (10) days after written notification from the Program Administrator or if Contractor fails to comply with a change order or instruction of the Program Administrator, Contractor shall be declared to be in default and the Surety on the bonds shall be notified in writing and directed to complete the work, and a copy of said notice shall be delivered to Contractor.

In case the Surety should fail to commence compliance with the notice for completion hereinbefore provided for within ten (10) days after services of such notice, or in the event there is no Surety, then County may provide for completion of the work in any manner it deems appropriate.

45. TERMINATION

County may terminate this Contract:

- i. immediately by giving written notice, if Contractor breaches its obligation under the Contract; or
- ii. with or without cause, after giving 30 days written notice of termination to Contractor.

In the event this Contract is terminated Contractor will be paid for work satisfactorily completed. The amount of such payment will be determined by the Program Administrator.

46. SALVAGE

Any materials, equipment and fixtures specifically ordered to be salvaged under these specifications shall remain the property of County and will be delivered to the site designated by the Program Administrator. All other items shall be disposed of by Contractor in compliance with all applicable laws and regulations.

47. COMPLIANCE WITH CODES

Contractor shall comply with all city, county, and state codes, laws, and ordinances in force at the time of award of contract and applicable to such work. Contractor shall obtain, at Contractor's own expense such permits, certificates, and licenses as may be required in the performance of the specified work.

48. INDEMNITY

Contractor shall defend, indemnify, and save whole and harmless Galveston County, and its officers, agents, and employees from and against all claims and suits of whatever character, arising from the performance of this contract.

49. PROTECTION AGAINST CLAIMS OF SUBCONTRACTORS, LABORERS, MATERIALMEN AND FURNISHERS OF MACHINERY EQUIPMENT AND SUPPLIES

Contractor agrees to indemnify and hold County harmless from all claims of subcontractors, laborers, workmen, mechanics, material men and furnishers of equipment, and all supplies incurred in the performance of this contract. Contractor shall furnish satisfactory evidence that all obligations of the nature hereinabove designated have been paid, discharged or waived. If Contractor fails to do so, then County reserves the right to pay unpaid bills of which County has written notice direct and withhold from Contractor's unpaid compensation a sum of money reasonably sufficient to liquidate any and all such lawful claims.

50. PROTECTION AGAINST ROYALTIES, PATENTED INVENTIONS OR PROCESS, OR PATENT INFRINGEMENT

Contractor shall, at its own expense, settle or defend any claim, suit or action brought against County and shall protect and save harmless County from all and every demand for damages, royalties or fees for any patented invention or process used by it in connection with the work done, process used or material furnished under this Contract, and shall pay any final judgement for damages, attorneys fees and costs which may be awarded against County.

51. LAWS AND ORDINANCES

Contractor shall at all times observe and comply with all Federal, State and Local Laws, ordinances and regulations which in any manner effect the contract or the work, and shall indemnify and save harmless the County against any claim arising from the violation of any such laws and ordinances, whether by Contractor or its employees.

52. WARRANTY

Contractor and/or its Surety will be required by County to repair, replace, restore, and/or to make such corrections as are required of it to comply strictly in all things with this contract and the Plans and Specifications and any and all of said work and/or materials, which, within a period of one year from and after the date of the passing, approval, and/or acceptance of any such work or materials, are found to be defective or to fail in any way to comply with this contract or with the Plans and Specifications.

53. PERMITS AND LICENSES

Contractor shall be responsible for obtaining and furnishing all necessary permits and licenses, City, County, State or Federal as are required for the performance of this contract.

54. NOTICE

Any notice required or permitted between the parties under this contract must be in writing and shall be delivered in person or mailed, certified mail, return receipt requested, or may be transmitted by fax as follows:
to County at:

Hon. Mark Henry, County Judge
Galveston County Courthouse, 2nd floor
Galveston, TX 77550
Fax (409) 765-2653

and to Contractor at the address listed in Contractor's Bid Proposal.

55. FORCE MAJEURE

If the performance by County of any of its obligations under this contract is delayed by any occurrence not of its own conduct, whether an act of God or the common enemy or the result of war, riot, civil commotion, sovereign conduct, or the act or conduct of any person not a party or privy to this contract, the County is excused from its performance for a period of time as is reasonably necessary after the occurrence to remedy the effects of the occurrence.

56. APPLICABLE LAWS

Contractor acknowledges that County is a governmental entity and this Agreement is an open record under the Open Records Act and will be discussed and voted upon in a public meeting.

57. ENTIRETY OF AGREEMENT AND MODIFICATION

This contract contains the entire agreement between the parties. A prior agreement, promise, negotiation or representation not expressly set forth in this contract has no force or effect. A subsequent modification to this contract must be in writing, signed by both parties.

An official representative, employee, or agent of the County does not have authority to modify or amend this contract except pursuant to specific authority to do so granted by the Commissioners' Court.

58. SEVERABILITY; CONFORMITY WITH LEGAL LIMITATIONS

If a provision contained in this contract is held invalid for any reason, the invalidity does not affect other provisions of the contract that can be given effect without the invalid provision, and to this end the provisions of this contract are severable.

59. GOVERNING LAW; VENUE

This contract shall be governed by the laws of the State of Texas. Venue for an action arising under this contract shall be exclusively in Galveston County.

60. LINES AND GRADES

The Engineer will furnish points for horizontal and vertical control. Any additional stakes required by the Contractor shall be set at his expense. Whenever necessary, work shall be suspended to permit this work, but such suspension will be as brief as practicable and the Contractor shall be allowed no extra compensation therefor. The Contractor shall give the Engineer ample notice of the time and place where control lines and bench marks will be needed. All control stakes, marks, etc. shall be carefully preserved by the Contractor, and in case of careless destruction or removal by him or his employees, such control stakes, marks, etc. shall be replaced by the Engineer at the Contractor's expense.

61. EMPLOYMENT VERIFICATION

The Immigration Reform and Control Act (IRCA) of 1986 prohibits contractors from knowingly hiring illegal workers. Accordingly, Contractors and Subcontractors must collect information regarding an employee's identity and employment eligibility and document that information on Form I-9. In addition, Contractors and Subcontractors will be required to utilize E-Verify to verify that the information their employees provided was valid or that the documents presented were genuine. Contractors and Subcontractors shall also be required to keep a record on each employee showing compliance with this requirement. The records shall be open at all reasonable hours to inspection by the Galveston County Wage Compliance Officer. Each violation of this requirement shall result in the Contractor and/or Subcontractor paying the County the amount of \$60.00 for each employee employed for each calendar day or part of the day that the Contractor and Subcontractor failed to comply with the requirements of this general condition.

62. CERTIFICATION REGARDING DEBARMENT, SUSPENSION INELIGIBILITY, AND VOLUNTARY EXCLUSION

By submission of its proposal, proposer certifies that it is not ineligible for participation in federal or state assistance program under Executive Order 12549, "Debarment and Suspension." Proposer further agrees to include this certification in all contracts between itself and any subcontractors in connection with services performed under this contract. Proposer also certifies that it shall notify Galveston County in writing immediately if contractor is not in compliance with Executive Order 12549 during the term of this contract. Proposer agrees that it shall refund Galveston County for any payments made to it while ineligible.



County of Galveston

ACKNOWLEDGMENT AND CERTIFICATION REGARDING DEBARMENT, SUSPENSION, AND OTHER INELGIBILITY Executive Orders 12549 & 12689 Certification, Debarment and Suspension

Solicitation Number: RFP #B151017

Solicitation Title: Lee & Joe Jamail Bay Park

Contractor hereby CERTIFIES that:

Contractor, and all of its principals, is not presently debarred, suspended, proposed for debarment, proposed for suspension, or declared ineligible under Executive Order 12549 or Executive Order 12689, Debarment and Suspension, and is not in any other way ineligible for participation in Federal or State assistance programs;

Contractor, and all of its principals, were not and have not been debarred, suspended, proposed for debarment, proposed for suspension, or declared ineligible under Executive Order 12549 or Executive Order 12689, Debarment and Suspension, and were not and have not been in any other way ineligible for participation in Federal or State assistance programs at the time its' proposal was submitted in the procurement identified herein and at any time since submission of its' proposal;

Contractor has included, and shall continue to include, this certification in all contracts between itself and any sub-contractors in connection with services performed under this contract; **and**

Contractor shall notify Galveston County in writing immediately, through written notification to the Galveston County Purchasing Agent, if Contractor is not in compliance with Executive Order 12549 or 12689 during the term of its contract with Galveston County.

Contractor **Represents** and **Warrants** that the individual executing this Acknowledgment and Certification on its behalf has the full power and authority to do so and can legally bind the Contractor hereto.

Name of Business

Date

By: _____
Signature

Printed Name & Title

GENERAL NOTES AND SPECIFICATION DATA

1. The Contractor shall carefully examine the drawings and specifications, visit the site of this work, and check the proposed locations of all new work. The Contractor shall inform himself, in detail, as to all existing conditions, limitations, available clearances, and shall thoroughly check all facilities, which are to be removed and/or relocated.
2. Where a material or product is referred to on the drawings by a manufacturer's brand or trade name, it is for the purpose of establishing a standard or quality. Similar materials or products of equal quality (meeting design requirements) from other manufacturer's will be given due consideration provided they are submitted to and approved by the Engineer as per the provisions of the general conditions.
3. An effort to determine all the pipelines and utilities which may impact the project has been made. All known pipelines and utilities have been approximately located and shown on the plans. The Contractor shall notify all utility and pipeline owners before beginning the work. Additional unknown utilities and pipelines may be found. Adjustment of these utilities or pipelines shall be done by others at no expense to the Contractor. However, the Contractor shall cooperate and coordinate his work with the adjustment. The Contractor will anticipate this in making his bid. The Contractor will not be allowed claims for damages or delays for these adjustments should they be necessary. However, additional time will be considered for the contract period. This action, however, shall in no way be interpreted as relieving the Contractor of his responsibilities under the terms of the contract as set out in the plans and specifications. The Contractor shall repair any damage to the County's facilities caused by his operations at the Contractor's expense and shall restore facilities to service in a timely manner.
4. The drawings and specifications are correlative and have equal authority and priority. Should they disagree in themselves, or with each other, base the bids on the most expensive combination of quality and quantity of the work indicated. The Engineer will clarify the project requirements in the event of the above mentioned disagreements.
5. All items of work required under this contract not specifically called for in the proposal as pay items shall be considered incidental and no separate payment shall be made for same.
6. Mixing of materials, storing of materials, storing of equipment or repairing of equipment on top of pavement or bridge decks will not be permitted unless specially authorized by the Engineer. Permission will be granted to store materials on subject surfaces if no damage or discoloration will result.
7. All removed, demolished, obliterated, excess and waste materials shall become the property of the Contractor and shall be properly disposed of off-site. Handling, hauling and disposal shall be considered subsidiary to the various bid items and no separate payment shall be made for same.

8. Item 110: Excavation

In those instances where manipulation of the excavated materials requires that the materials shall be removed more than once to accomplish the desired results, the excavation will be measured and paid for once only regardless of the manipulation required.

9. Item 500: Mobilization

The total lump sum payment for the bid item "Mobilization" shall not exceed 5% of the total bid.

10. Item 502: Barricades, Signs And Traffic Handling

For this project the Contractor will furnish and maintain all barricades and warning signs, including all temporary and portable traffic control devices necessary during the various phases of construction. These barricades and warning signs shall be constructed and placed in accordance with the latest Texas MUTCD and typical construction layouts, or as directed by the Engineer.

Two weeks prior to any alteration in traffic patterns, the Contractor will provide the Engineer, for his approval, a layout showing all signs, barricades, striping and signalization. The approval of this layout by the Engineer will not relieve the Contractor of his responsibility for the protection of the traveling public.

All advance warning signs are to be set prior to the start of construction activities and to remain in place until all construction activities are complete and accepted by Galveston County. The Contractor will coordinate with the Galveston County Engineering Department in establishing traffic routes and location of signs.

The Contractor shall provide, install, move, replace and maintain in a clean and good condition all barricades, signs, barriers, cones, lights, signals, and other such type devices as may be required by Item 502, "Barricades, Signs And Traffic Handling". Upon completion of the work, all barricades, signs, barriers, etc. and evidences there of shall be removed by the Contractor.

The Contractor will not block traffic without prior approval of the Engineer.

All equipment shall be off the road by dark and before dawn.

Existing drainage shall be maintained at all times.

During certain phases of construction flagmen may be required to direct and control traffic. This work will not be paid for directly but shall be considered incidental to Item 502, "Barricades, Signs And Traffic Handling".

The Contractor shall be responsible for controlling excess dust, loose rocks and any other material produced by the work. The Contractor shall use methods which are reasonable and practical to control these problems.

The Contractor shall sweep and remove any material spilled or dropped from trucks along the haul route.

**SECTION V
SPECIFICATIONS**

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GOVERNING SPECIFICATIONS AND SPECIAL PROVISIONS

All Specifications and Special Provisions applicable to this Project are identified as follows:

STANDARD SPECIFICATIONS:

"Standard Specifications For Construction and Maintenance of Highways, Streets and Bridges" as adopted by the Texas Department of Transportation, November 1, 2014, shall govern for the consideration of this project. Said specifications in their entirety are hereby incorporated into the contract documents, and the Contractor shall comply with all provisions contained in said specifications and shall be bound by them in their entirety, except where modified in the project plans and specifications.

SPECIAL PROVISIONS:

Special Provisions to Items 1 thru 9, Item 110, Item 247, Item 491, and Item 506

SPECIAL ITEMS:

15001 – Prefabricated Metal Bridges
16050 – Electrical Construction

SPECIAL PROVISION TO ITEM 1

"DEFINITION OF TERMS"

For this project, Item 1 of the Texas Standard Specifications is hereby amended with respect to the clauses cited below and no other clauses or requirements of this Item are waived or changed hereby:

THE TERM "DEPARTMENT," "STATE," "STATE HIGHWAY DEPARTMENT OF TEXAS", "TxDOT", "TEXAS DEPARTMENT OF TRANSPORTATION", "STATE DEPARTMENT OF HIGHWAYS AND PUBLIC TRANSPORTATION," "STATE DEPARTMENT OF HIGHWAYS AND PUBLIC TRANSPORTATION COMMISSION," "COMMISSION," AND "STATE HIGHWAY COMMISSION," SHALL, IN THE USE OF THE STANDARD SPECIFICATIONS FOR ALL WORK IN CONNECTION WITH THIS PROJECT, BE DEEMED TO MEAN GALVESTON COUNTY, PARTY OF THE FIRST PART IN ACCOMPANYING CONTRACT OR CONTRACTS. ANY REFERENCE IN THE TEXAS STANDARD SPECIFICATIONS TO THE STATE OF TEXAS, ITS OFFICIALS, EMPLOYEES, OR AGENTS SHALL BE DEEMED TO MEAN GALVESTON COUNTY, ITS OFFICIALS, EMPLOYEES, OR AGENTS.

Articles 3.27, "Certificate of Insurance" ; 3.29, "Commission", 3.49, "Department", 3.74 "Letting Official " and 3.132 "State" are deleted.

Article 3.56, "ENGINEER", is revised to read in its entirety as follows:

3.56 ENGINEER. Galveston County Engineer or his authorized representatives. If a representative is authorized to function as the ENGINEER'S representative with respect to certain of the ENGINEER'S activities, that representative's responsibilities and obligations shall be limited as provided in Article 3.159.

Article 3.68, "INSPECTOR," is revised to read in its entirety as follows:

3.68 INSPECTOR. The representative of the ENGINEER assigned and authorized to observe or inspect any or all parts of the work and the material to be used therein. A representative is authorized to function as the ENGINEER'S representative with respect to certain of the activities, and that representative's responsibilities and obligations shall be limited as provided in Article 3.159.

Special Provisions to Item 1

"DEFINITION OF TERMS"

ADDITIONAL ARTICLES ARE ADDED AS FOLLOWS:

3.159 CONSULTING ENGINEER. Independent engineering firms contracting with Galveston County for the providing of professional engineering services. The engineering firms are the representatives of Galveston County only to the extent provided in the Contract documents and in such special instances where they are specifically authorized by Galveston County so to act. All powers and rights assigned by Galveston County to the engineering firms with respect to the work are solely and exclusively for the benefit of Galveston County -- and not for the CONTRACTOR. In carrying out of its powers and rights assigned by Galveston County the engineering firms shall function as a representative of Galveston County and shall act by and for Galveston County. Irrespective of what authority may be assigned by Galveston County to the engineering firms, CONTRACTOR remains fully and solely responsible and liable for its obligations to perform the work in accordance with the requirements of the plans and specifications; to insure against failures in safety precautions; to carry out his work pursuant to safe methods of construction; to select and fulfill the proper manner, means, and methods in performing the work in order to meet the plans and specifications; and to complete the work in accordance with the contract documents.

SPECIAL PROVISION TO ITEM 2
INSTRUCTIONS TO BIDDERS

For this project, Item 2 of the Texas Standard Specifications is hereby deleted in its entirety.
The Instructions To Bidders is included elsewhere in the Contract Documents.

SPECIAL PROVISION TO ITEM 3
AWARD AND EXECUTION OF CONTRACT

For this project, Item 3 of the Texas Standard Specifications is hereby deleted in its entirety.

The Award and Execution of Contract is included elsewhere in the Contract Documents.

SPECIAL PROVISION TO ITEM 4

SCOPE OF WORK

For this project, Item 4 of the Texas Standard Specifications is hereby amended with respect to the clauses cited below and no other clauses or requirements of this Item are waived or changed hereby.

ARTICLE 4.4 "CHANGES IN WORK;" ARTICLE 4.5 "DIFFERING SITE CONDITIONS" and ARTICLE 4.6 "REQUESTS AND CLAIMS FOR ADDITIONAL COMPENSATION" are deleted in their entirety and replaced by Article 38 "CHANGES and ALTERATIONS" and ARTICLE 39 "EXTRA WORK" of Section IV, "General Terms and Conditions".

SPECIAL PROVISION TO ITEM 5

CONTROL OF THE WORK

For this project, Item 5 of the Texas Standard Specifications is hereby amended with respect to the clauses cited below and no other clauses or requirements of this Item are waived or changed hereby.

ARTICLE 5.2 "PLANS AND WORKING DRAWINGS." The first sentence of the first paragraph is hereby revised to read as follows:

When required, the Contractor shall provide working drawings to supplement the plans with all necessary details not included on the Contract plans.

ARTICLE 5.5 "COOPERATION OF CONTRACTOR." The following sentence shall be added to the last line of the first paragraph:

The Contractor will be supplied with three (3) copies of the plans, specifications and special provisions and he shall have one (1) copy of each available on the project at all times.

ARTICLE 5.9 "CONSTRUCTION SURVEYING," is hereby deleted in its entirety.

ARTICLE 5.10 "INSPECTION." The sixth sentence of the second paragraph is hereby revised to read as follows:

If the uncovered work is acceptable, the costs to uncover, remove and replace or make good the parts removed will be paid for in accordance with Article 38. "Changes And Alterations" of Section IV, "General Terms And Conditions".

ARTICLE 5.12 "FINAL ACCEPTANCE," is hereby deleted in its entirety. It is replaced by Article 34. "Final Completion And Acceptance" of Section IV, "General Terms And Conditions".

SPECIAL PROVISION TO ITEM 6

CONTROL OF MATERIALS

For this project, Item 6 of the Texas Standard Specifications is hereby amended with respect to the clauses cited below and no other clauses or requirements of this Item are waived or changed hereby.

ARTICLE 6.1.2 "SOURCE CONTROL." Paragraph B. "Buy Texas" is hereby deleted in its entirety.

ARTICLE 6.7 "Department-furnished Material" is hereby deleted in its entirety.

SPECIAL PROVISION TO ITEM 7

LEGAL RELATIONS AND RESPONSIBILITIES

For this project, Item 7 of the Texas Standard Specifications is hereby amended with respect to the clauses cited below and no other clauses or requirements of this Item are waived or changed hereby.

ARTICLE 7.14 "RESTORING SURFACES OPENED BY PERMISSION." The third sentence of the first paragraph is hereby revised to read as follows:

Payment for repair of surfaces opened by permission will be made in accordance with Article 38. "Changes And Alterations" of Section IV, "General Terms And Conditions".

SPECIAL PROVISION TO ITEM 8

PROSECUTION AND PROGRESS

For this project, Item 8 of the Texas Standard Specifications is hereby amended with respect to the clauses cited below and no other clauses or requirements of this Item are waived or changed hereby.

ARTICLE 8.1 "PROSECUTION OF WORK" The first sentence in the first paragraph is hereby revised to read as follows:

"The Contractor shall begin the work to be performed under the contract within ten (10) days after the date of the authorization to begin work as shown on the work order.

ARTICLE 8.5.2 "PROGRESS SCHEDULES", B. "CONSTRUCTION CONTRACTS" The first sentence in the first paragraph is hereby revised to read as follows:

If required by the Engineer, before starting work on a construction Contract, prepare and submit a progress schedule based on the sequence of work and traffic control plan shown in the Contract.

SPECIAL PROVISION TO ITEM 9

MEASUREMENT AND PAYMENT

For this project, Item 9 of the Texas Standard Specifications is hereby amended with respect to the clauses cited below and no other clauses or requirements of this Item are waived or changed hereby.

ARTICLE 9.2 "PLANS QUANTITY MEASUREMENT" is hereby deleted in its entirety and replaced by ARTICLE 37 "ESTIMATED QUANTITIES" of Section IV, "General Terms and Conditions".

ARTICLE 9.7 "PAYMENT FOR EXTRA WORK AND FORCE ACCOUNT METHOD" is hereby revised to read as follows:

Extra work ordered, performed and accepted will be paid for in accordance with ARTICLE 39, "EXTRA WORK" of Section IV, "General Terms and Conditions".

ARTICLE 9.5 "PROGRESS PAYMENTS" is hereby deleted in its entirety and replaced by ARTICLE 36, "PROGRESS PAYMENTS AND RETAINAGE" of Section IV, "General Terms and Conditions".

ARTICLE 9.10 "FINAL PAYMENT" is hereby deleted in its entirety and replaced by ARTICLE 34, "FINAL COMPLETION AND ACCEPTANCE" and ARTICLE 40, "FINAL PAYMENT" of Section IV, "General Terms and Conditions".

SPECIAL PROVISION TO ITEM 110

EXCAVATION

For this project, Item 110 of the Texas Standard Specifications is hereby amended with respect to the clauses cited below and no other clauses or requirements of this Item are waived or changed hereby.

ARTICLE 110.3 "Measurement." The second paragraph is hereby deleted in its entirety and replaced by the following:

The quantity shown in the Proposal is an estimated quantity based on both a pre-Hurricane Ike survey and a post-Hurricane Ike survey. The entire project was surveyed pre-Hurricane Ike. After Hurricane Ike, new bathymetric survey was obtained only. Quantities shown in the Proposal related to surface improvements are estimated quantities based on the pre-Hurricane Ike survey. Quantities shown in the Proposal related to sub-surface improvements are estimated quantities based on the post-Hurricane Ike survey. The final quantity will be computed based on pre and post construction surveys.

SPECIAL PROVISION TO ITEM 247

FLEXIBLE BASE

For this project, Item 247 of the Texas Standard Specifications is hereby amended with respect to the clauses cited below and no other clauses or requirements of this Item are waived or changed hereby.

ARTICLE 247.5 "Measurement." The first paragraph after the bulleted section is hereby deleted in its entirety. The second sentence in Subparagraph D is hereby deleted in its entirety.

ARTICLE 247.6 "Payment." The second sentence in the first paragraph is hereby revised to read as follows:

No additional payment will be made for thickness exceeding that shown on the typical section or provided on the plans for cubic yard in the final position or square yard measurement.

SPECIAL PROVISION TO ITEM 491

TIMBER FOR STRUCTURES

For this project, Item 491 of the Texas Standard Specifications is hereby amended with respect to the clauses cited below and no other clauses or requirements of this Item are waived or changed hereby.

ARTICLES 491.5 "Measurement" and 491.6 "Payment." These paragraphs are hereby deleted in their entirety and replaced by the following:

491.5. Measurement and Payment. This Item will be measured by the lump sum. The work performed and materials furnished in accordance with this Item will be paid for at the lump sum price bid for the timber structure being constructed. This price is full compensation for installation, materials, equipment, labor, tools, and incidentals.

SPECIAL PROVISION TO ITEM 506

TEMPORARY EROSION, SEDIMENTATION, AND ENVIRONMENTAL CONTROLS

For this project, Item 506 is hereby amended with respect to the clauses cited below and no other clauses or requirements of this Item are waived or changed hereby.

ARTICLES 5.6 "Measurement" and 6.8 "Payment". Both paragraphs are hereby deleted in their entirety and replaced by the following:

6.11. Measurement and Payment. No separate measurement or payment will be made for filter fabric as part of the work. Include cost of same in Contract price bid for work of which filter fabric is a component part.

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SPECIAL ITEM 15001
PREFABRICATED METAL BRIDGES

PART 1 - GENERAL

1.01 SUMMARY

This section includes materials and installation of fully engineered clear span prefabricated metal bridges.

1.02 RELATED REQUIREMENTS

- A. Steel Structures: 441
- B. Metal for Structures: 442
- C. Galvanizing: 445
- D. Structural Bolting: 447
- E. Structural Field Welding: 448
- F. Anchor Bolts: 449

1.03 SUBMITTALS

- A. Submit shop drawings in accordance with the General Conditions.
- B. Submit manufacturer's catalog data describing the bridge construction and components. Submit design and erection drawings; shop painting and finishing specifications; instruction manuals; and other data to describe the design, materials, sizes, layouts, construction details, fasteners, and erection.
- C. For metal bridge design, submit engineering design calculations for structural components, bracing, equipment supports, and anchor bolts. Design calculations shall be signed by a civil or structural engineer registered in the state of Texas.
- D. Submit certificate that the design meets the applicable local and regional building codes.
- E. Submit erection drawings and diagrams. Show base anchor details and anchor bolt sizes. Show girder and/or truss bracing.
- F. Manufacturer's Schematic Drawings Diagrams: Shop drawings shall be unique drawings, prepared to illustrate the specific portion of the work to be done. Manufacturer's standard forms requiring only filling in of blank spaces

shall not be acceptable unless all nonapplicable information is deleted and such standard forms are modified to reflect exact requirements and conditions unique to the project. All relative design information such as member sizes, reactions, and general notes shall be clearly specified in the drawings. Shop drawings shall be accurately prepared by skilled draftsmen to be complete in every respect. Drawings shall have cross-referenced details and sheet numbers. All drawings shall be signed and sealed by a registered professional engineer, registered in the state of Texas.

1.04 GUARANTEE

Bridges shall be guaranteed against detrimental weathering or structural defects caused by ordinary wear and tear by the elements for a period of five years. Such guarantee is in addition to the guarantee required in the General Conditions and shall start upon final acceptance of the work by the Owner.

PART 2 - MATERIALS

2.01 MANUFACTURERS

Prefabricated metal bridges shall be manufactured by Contech Engineered Solutions LLC, or approved other.

2.02 DESIGN CRITERIA

- A. The bike path bridge shall be of the size and shape shown, complete with all accessories. Determine anchor bolt layouts before placing concrete footings, walls, or slabs to support the bridge.
- B. The design of the bridge and components shall be in accordance with American Association of State Highway and Transportation Officials (AASHTO).
- C. Span and Width:
 - 1. Bridge shall have spans as shown on the drawings.
 - 2. Bridge inside deck width shall be 10 feet 2 inches.
- D. Geometry:
 - 1. Half through (pony truss) utilizing an "H" section design where the floor system is raised above the truss bottom chord.
 - 2. One diagonal per panel. Chords, diagonals, verticals, and stringers to be of tube steel. Floor beams to be wide flange material that bolts in place in the field.

- E. Camber: Bridge camber at center of bridge span shall be for dead load camber only.
- F. Structural Materials:
1. All fabrications shall be fabricated using ASTM A500 Grade C cold-formed welded square and rectangular tubing ($F_y = 50,000$ psi) and/or ASTM A588, ASTM A242, ASTM A572, ASTM A606 ($F_y = 50,000$ psi) and/or ASTM A36 ($F_y = 36,000$ psi) plate and/or structural steel shapes ASTM A992. Splice plates, if required, shall be ASTM A588.
 2. Field splices shall be fully bolted with ASTM A 325 Type 3 high strength bolts in accordance with "Specifications for Structural Joints Using ASTM A 325 or A 490 Bolts."
 3. Decking: Bridge shall be provided with a concrete 10-foot 2-inch walkway. Walkway shall have toe plates or channels on each side of the decking.
- G. Design all bridges for the dead load, specified live load, and the combinations of these loads as set forth in the AASHTO publication. Reduction of loads due to tributary loaded area is permitted. Include the following loads in addition to the dead load:
1. Live load and wind load as required by AASHTO, as modified by the drawings.
 2. Weights of all equipment supported by the structure.
- H. Design Loads:
1. Uniform Live Load:
 - a. Main supporting members (girders, trusses, and arches) shall be designed for a pedestrian live load of 100 psf of bridge walkway area.
 - b. Secondary Members: Bridge decks and supporting floor systems, including secondary stringers, floor beams, and their connections to main supporting members shall be designed for a live load of 100 psf, with no reduction allowed.
 2. Wind Load:
 - a. The bridge(s) shall be designed for a wind load of 130 mph, 3 sec gust on the full vertical projected area of the bridge as if enclosed. The wind load shall be applied horizontally at right angles to the longitudinal axis of the structure.

- b. 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 psf of deck.
 3. Top Chord Railing Loads: The top chord, truss verticals, and floor beams shall be designed for lateral wind loads (per paragraph 8.c) and for any loads required to provide top chord stability; 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.
 4. Load combinations shall be per AASHTO load combinations.
- I. Design Limitations:
1. Deflection: The vertical deflection of the main trusses due to service pedestrian live load shall not exceed 1/500 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. The horizontal deflection of the structure due to lateral wind loads shall not exceed 1/500 of the span under a 35-psf wind load.
 2. Minimum Thickness of Metal: The minimum thickness of all structural steel members shall be 5/16 inch nominal and be in accordance with the AISC Manual of Steel Construction's "Standard Mill Practice Guidelines." For ASTM A500 and ASTM A 847 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."
- J. Governing Design Codes/References:
1. Structural Steel Allowable Stresses: Allowable design stresses shall be in accordance with AASHTO "Standard Specifications for Highway Bridges" latest edition.
 2. Welded Tubular Connections: All welded tubular connections shall be checked, when within applicable limits, for the limiting failure modes outlined in the ANSI/AWS D1.1 Structural Welding Code or in accordance with the "Design Guide for Hollow Structural Section Connections" as published by the Canadian Institute of Steel Construction (CISC). When outside the "validity range" defined in these design guidelines, all applicable limit states or failure modes must be checked.

3. Top Chord Stability:

- a. The top chord of a half-through truss 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) in any panel of the top chord by not less than 50% for parallel chord truss bridges or 100% for tied arch 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.
 - b. For uniformly loaded bridges, the vertical truss members, the floor beams, and their connections (transverse frames) in half-through truss spans shall be proportioned to resist a lateral force of not less than $1/100k$ times the top chord compressive load, but not less than 0.004 times that top chord load, applied at the top chord panel points of each truss.
 - c. 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.
 - d. NOTE: The effects of three-dimensional loading (including "U-frame" requirements) shall be considered in the design of the structure. The "U-frame" forces in half-through spans shall be added to the forces derived from a three-dimensional analysis of the bridge.
- K. Design structural steel members in accordance with the "Manual of Steel Construction: Allowable Stress Design" as adopted by the American Institute of Steel Construction (AISC), latest edition. Design structural cold formed steel framing members in accordance with AISI publication, "Specification for the Design of Cold-Formed Steel Structural Members."
- L. Welded tubular structural design shall be in accordance with the Structural Welding Code (ANSI/AWS D1.1), Chapter 10, "Tubular Structures."

2.03 BRACING

Provide erection bracing and layout. Base size of bracing upon a wind load as specified hereinbefore. Provide flange bracing.

2.04 ASSEMBLY AND DISASSEMBLY

The size of the prefabricated components and the field connections required for erection shall permit efficient assembly and disassembly. The maximum size of any shop-assembled component of the bridge shall permit transportation from factory to site by commercial carrier. Fabricate components in such a manner that once assembled, they may be disassembled, repackaged, and reassembled with a minimum amount of labor and maximum salvageability. Clearly and legibly mark each and every piece and part of the assembly to correspond with previously prepared erection drawings, diagrams, and/or instruction manuals.

2.05 FINISHING

All structural steel, after fabrication, will be blast cleaned in accordance with SSPC SP-10 commercial blast cleaning, latest edition.

2.06 GALVANIZING

All bridge components shall be galvanized as per Item 445.

PART 3 - EXECUTION

3.01 STORAGE AND PROTECTION

Deliver, store, handle, and erect prefabricated components, sheets, panels, and other manufactured items such that they will not be damaged or deformed. Stock materials stored on the site before erection on platforms or pallets and cover with tarpaulins or other weatherproof covering. Store metal sheets, panels, or frames so that water accumulated during transit or storage will drain off. Do not store components in contact with materials that may cause staining. Upon arrival on the jobsite, remove moisture on sheets and panels, restack, and protect until used.

3.02 FABRICATION

- A. Workmanship, fabrication, and shop connections shall be in accordance with AASHTO specifications.
- B. Welding operators shall be properly accredited, experienced operators, each of whom shall submit satisfactory evidence of experience and skill in welding structural steel with the kind of welding to be used in the work and who has demonstrated the ability to make uniform good welds of the type required.

3.03 ERECTION

- A. Delivery and Erection:
 - 1. Delivery of the bridge shall be made to a location nearest the site which is accessible to over-the-road trucks.

2. The Contractor will be responsible for unloading the bridges and towers from the truck at the time of arrival. Bridge Manufacturer will notify the Contractor in advance of the expected time of arrival at the site.
 3. The manufacturer or his representative will instruct the Contractor or his representative in the proper lifting procedure for the unloading of the bridge. Care must be taken to prevent damage to the finish of the bridge.
 4. The unloading, splicing (if required), and placement of the bridge will be the responsibility of the Contractor. The procedure for bolting field splices will be given to the Contractor by the manufacturer.
- B. Erect in accordance with the manufacturer's erection instructions and drawings and the requirements herein. Insulate incompatible dissimilar materials which are in contact by means of gaskets or insulating compounds. Keep exposed surfaces clean and free from sealant, metal cuttings, and other foreign materials.
- C. Accurately set anchor bolts by template while the concrete is in a plastic state. Provide uniform bearing under baseplates and sill members using a nonshrinking grouting mortar. Accurately space members to assure proper fitting of covering. As erection progresses, securely fasten the work and brace to resist vertical loads and horizontal wind loads.

3.04 FOUNDATIONS

- A. Engineering design and construction of the supporting foundations (abutment, pier, or footing) will be the responsibility of the Owner.
- B. Information as to bridge support reactions and anchor bolt location and placement will be furnished by Bridge Manufacturer.

3.05 FIELD TOUCH UP

Repair galvanized surfaces as stated in Item 445 using Zinc-based solder or sprayed Zinc (metallizing).

END OF SECTION

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SPECIAL ITEM 16050
ELECTRICAL CONSTRUCTION

PART 1 GENERAL

1.01 SUMMARY

Provide all materials, equipment, supplies, supervision, tools, labor, and all other appurtenances required to install, test, adjust, and place in operation the electrical system as shown on PLANS and specified herein. CONTRACTOR to furnish all component pieces, wiring, piping, and accessories necessary for a complete and workable system placed in operation.

1.02 RELATED REQUIREMENTS

- A. PLANS and other Technical Specification Sections show and/or specify those features required to describe and illustrate functional requirements of the electrical system.
- B. Work Shown on PLANS
 - 1. The locations of electrical equipment shown on the PLANS are approximate only and are to be located exactly as necessary to fit the location of the equipment and not conflict with the installation of construction of the other trades.
 - 2. Wire sizes are based on the loads indicated on the One-Line Diagrams and panel schedules as reflected by relevant Sections of Technical Specification Sections. Final wire sizes to be in accordance with the latest edition of the National Electrical Code (NEC), based on the requirements of the equipment actually furnished.
 - 3. All relocation of electrical equipment and changes in wire and conduit sizes to be at no additional cost to the OWNER.

1.03 - 1.04 (NOT USED)

1.05 SYSTEM DESCRIPTION

- A. Manufacturers
 - 1. Furnish products of manufacturers specified in PART 2 of this Section. All products to be approved in writing prior to installation.
 - 2. The products as described herein are applicable when required by the PLANS and/or other Technical Specification Sections and are included

to complement the electrical characteristics, ratings, and/or modifications as shown on PLANS.

3. All products of a given type to be furnished by a single manufacturer.
4. Material to bear Underwriters' Laboratory label if available for applicable product.
5. All products as described as follows to provide satisfactory operation and to require minimal maintenance under the following environmental conditions.
 - a. Non-weatherproof Products/Controlled Environment: Indoors protected from corrosive atmosphere and elements of the weather.
 - 1) Temperature: 60°F to 100°F.
 - 2) Relative Humidity: 95 percent.
 - b. Weatherproof Products/Noncontrolled Environment: Outdoors and indoors subjected to corrosive atmosphere or elements of the weather.
 - 1) Temperature: 10°F to 120°F.
 - 2) Relative Humidity: 100 percent.
6. Minimum interrupting ratings of the products to be at least equal to the available RMS symmetrical short-circuit current at the line terminals of the product, when applicable.

B. Construction

Comply with all National Electrical Code (NEC) requirements, local ordinances, and all other pertinent codes and standards.

1.06 SUBMITTALS

Furnish the following in accordance with Specification Section 01300 SUBMITTALS and as further required hereinafter.

- A. Submitted literature to be marked in ink to show the paragraph in the Technical Specification Section(s) for which the material applies.
- B. Summary Sheet: List any and all deviations in dimensions, capacities, or ratings from the dimensions, capacities, or ratings as shown on PLANS or in Technical Specification Section(s).

- C. Tabulated Data: Furnish tabulated data for all required products that are described in PART 2 of this Section.
- D. Catalog Data: Furnish catalog data cut sheets for all required products that are described in PART 2 of this Section, including highlighted indication of the following information when applicable for each submitted product.
 - 1. Manufacturer's product name and model number.
 - 2. Tag number identical to the one designated on PLANS.
 - 3. Functional name.
 - 4. Features.
 - 5. Options.
 - 6. Dimensions.
 - 7. Description of construction, including enclosure rating.
 - 8. Service requirements (e.g., power, water, etc.)
 - 9. Short-circuit current rating.
- E. Control Schematics and Instrumentation Diagrams: Furnish control schematics and instrumentation diagrams, when required, made from reproductions of the control schematics shown on PLANS with modifications as required but not redrawn in another format.

1.07 QUALITY ASSURANCE (NOT USED)

1.08 DELIVERY, STORAGE, AND HANDLING

- A. Maintain materials and equipment in new condition, including the use of heat lamps and suitable coverings to prevent accumulation of excess condensation and construction dirt.
- B. Protect materials and equipment from the weather, moisture, impact, corrosive liquids, gases, dust, and other agents that could cause damage.

1.09 PROJECT/SITE CONDITIONS (NOT USED)

1.10 SEQUENCING

- A. Conform to the construction schedule and progress of the other trades.
- B. Set all electrical apparatus in place whether supplied herein or under other Technical Specification Sections. Connect, test, service, and place equipment in operation.

1.11 SCHEDULING

A. Electrical and Telephone Service

The CONTRACTOR to contact, arrange for, and schedule initial service from the utility companies, as required. Any and all charges required by these utility companies for permanent service will be paid by the OWNER.

PART 2 - PRODUCTS

2.01 MANUFACTURER(S)

Manufacturer(s) to be as specified herein or as identified within other Specification Sections.

2.02 MATERIALS AND/OR EQUIPMENT

A. Conduit and Appurtenances

1. Rigid Steel Conduit

- a. UL-listed, mild steel hot-dipped galvanized inside and outside with hot-dipped galvanized threads in accordance with the latest editions of ANSI C80.1, UL6, Federal Specification WW-C-581E, and UL General Information Card #DYIX.

2. Rigid Aluminum Conduit

- a. UL-listed, No. 6063 aluminum alloy with T-1 temper designation in accordance with applicable standards as stated in paragraph 2.02 A.1.a. and including the latest edition of ANSI C80.5.

3. Rigid Polyvinyl Chloride (PVC) Conduit

- a. UL-listed, type 40, heavy wall PVC with 90°C wire rating suitable for direct sunlight applications in accordance with the latest editions of UL651 and NEMA TC-2.
- b. UL-listed, schedule 80, extra-heavy wall PVC with 90°C wire rating suitable for direct sunlight applications in accordance with the standards as listed in paragraph 2.02 A.3.a.

4. PVC-Coated Rigid Steel Conduit

- a. UL-listed, hot-dipped galvanized mild steel inside and outside with hot-dipped galvanized threads in accordance with the standards as stated in paragraph 2.02 A.1.a. Conduit to also include a PVC outer coating with minimal thickness of 40 mils and a phenolic inner coating with minimal thickness of 4 mils.

Coated conduit to comply with all requirements of the latest edition of NEMA RN-1.

- b. Manufacturer to be Ocal, Inc., Perma-Cote Industries, or Robroy Industries.

5. Flexible Metallic Conduit

- a. UL-listed, hot-dipped galvanized steel core with thermoplastic cover in accordance with the latest edition of UL360. Conduit also to be liquid tight and oil resistant.
- b. Manufacturer and type to be Anaconda Company-Sealtite Type U.A., Electri-Flex Company-Liquatite Type L.A., or equal.

6. Conduit Fitting

- a. Material of construction of fitting to be similar to the conduit it is used in conjunction with and to conform to the applicable standards of the conduit. Fitting also to be in accordance with the latest edition of UL514.
- b. Manufacturer to be Crouse-Hinds, Appleton, or equal.

B. Conductor, Cable, and Appurtenances

- 1. Conductor to be soft annealed bare copper per ASTM B3, Class B strand per ASTM B8. Size 12 AWG and 10 AWG for power circuits to be solid above ground; all other wire including all control wire to be stranded.

2. Power and Control Cable

- a. Above Ground: UL-listed Type THW or Type THWN rated for 600 volts AC and 75°C minimum. Insulation to be PVC. Conductors and insulation to be in accordance with the latest edition of UL83. Type THWN to have abrasion-resistant nylon jacket over insulation.
- b. Below Ground. UL-listed Type XHHW-1 rated for 600 volts AC and 90°C dry and 75°C wet. Insulation to be cross-linked thermosetting polyethylene. Conductors and insulation to be in accordance with UL44 NEMA WC-7, ICEA-S-66-524.
- c. Manufacturer to be Cablec, Okonite, Pirelli, Phelps Dodge, Triangle, Rome, or Kerite.

3. Shielded Instrumentation Cable

- a. UL-listed Type VW-1 rated for 300 volts DC and 60°C minimum. Insulation to be polyethylene with aluminum polyester, 100 percent shield coverage, and chrome PVC jacket. Conductors to be twisted, stranded, tinned copper with stranded tinned copper drain wire.
 - b. Manufacturer and catalog numbers to be Belden #8760 or #8770 as required, Eaton-Dekoron #1852 or #1862 as required, or equal.
4. Wire Connector
- a. UL-listed with fire-resistant, flame-retardant, thermoplastic shell in accordance with latest edition of Federal Specification W-S-610c.
 - b. Manufacturer and type to be 3M Company Type Scotchlock, Ideal Industrial Inc. Type Wire-Nut, or equal.
5. All-Purpose Electrical Tape
- a. UL-listed, flame-retardant, weather-resistant vinyl plastic construction in accordance with latest editions of UL510 and either Federal Specification HHI-595b or Federal Specification HHI-595c.
 - b. Manufacturer, type, and model number to be 3M Company Type Scotch #33+, Plymouth Rubber Company Inc. Type Premium Black #4453, or equal.
6. Fire and Electric Arc-Proofing Tape
- a. Flexible, conformable, unsupported intumescent elastomer with self-extinguishing characteristics in accordance with UL94.
 - b. Manufacturer, type, and model number to be 3M Company Type Scotch #77, Plymouth Rubber Company Inc. Type Slipknot #30, or equal.
7. Conductor Splice
- a. Material properties, heat-shrink, cross-link polyolefin wrap-around sleeve affixed with positive mechanical closure with raised rail and water-tight seal. Include compression connector.
 - b. Manufacturer, type, and model number to be Ray-Chem CRSM and CRSM-CT, or equal.

C. Lighting Contactor

1. Contactor is to have a minimum of four (4) normally open 30A rated contacts.
2. Contactor is to have an electrically held 120V coil.
3. Contactor is to have a NEMA 4X enclosure.
4. Contactor is to have factory installed "Hand-Off-Auto" selector switch.

D. Photocell

1. 120V working voltage with 15A rated contact.
2. ½" stem mount with gasket and locknut
3. Adjustable light level slide.
4. Intermatic #K4121C or approved equal

E. Receptacle and Appurtenances

1. Receptacle
 - a. UL-listed, duplex ground fault circuit interrupting type with ivory face rated 125 volts AC, 20 amps continuous.
 - b. Manufacturer and catalog number to be Hubbel #GF20ALL or equal.
2. Cover Plate: Type, manufacturer, and catalog number to be as follows.
 - a. Non-weatherproof ivory thermoplastic type to be manufactured by receptacle manufacturer with compatible catalog number as required.
 - b. Non-weatherproof steel type to be Crouse-Hinds #DS23, Appleton #FSK-1DR, or equal.
 - c. Weatherproof UV-Stabilized polycarbonate type to be Intermatic WP1000 series, or equal.

F. Lighting Panel

1. UL-listed and in accordance with the latest edition of Federal Specification WP-115A, Type 1, Class 1. Panel to include a UL service entrance label when required.

2. System voltage rating to be 120/240 volts AC or 480/277 volts AC as shown on PLANS. Minimum integrated rating of 240 volts AC rated panel to be 10,000 RMS symmetrical amps, and minimum integrated rating of 480/277 volts AC rated panel to be 14,000 RMS symmetrical amps unless shown otherwise on PLANS.
3. Buses to be silver plated copper. Minimum size of buses and breaker frames to be 100 amps unless shown otherwise on PLANS.
4. Transformer-fed panels to have main breaker to match system. Breakers to be plug-in type in accordance with the latest edition of Federal Specification W-C-375b.
5. Enclosure to be NEMA 1 for controlled environment and NEMA 3R for noncontrolled environment unless shown otherwise on PLANS.
6. Rating, manufacturer, and type to be as follows.
 - a. 240 volts AC to be Square D Type NQO or equal by General Electric, Siemens, or Cutler-Hammer.
 - b. 480/277 volts AC to be Square D Type NEHB or equal by General Electric, Siemens, or Cutler-Hammer.

G. Molded Case Circuit Breaker

1. UL-listed, thermal magnetic type in accordance with latest editions of NEMA AB1 and Federal Specification W-C-375B.
2. Breaker to include the following features.
 - a. Toggle type handle with quick-make, quick-break, over-center switching mechanism.
 - b. Handle position trip indication.
 - c. Inverse time delay and instantaneous circuit protection to be provided by each pole.
 - d. Common trip for two-pole and three-pole types.
 - e. 100 amp frame size minimum.
 - f. Single adjustment variable magnetic trip elements for frame sizes greater than 100 amps.
 - g. Enclosures, when required, to be as specified in paragraph 2.02 J.2.

3. Manufacturer to be Cutler-Hammer, General Electric, Square D, or Siemens.

H. Lighting Fixtures

1. General: Provide lighting fixtures, of the size, type, and rating indicated on PLANS, complete with, but not necessarily limited to, lamps, lampholders, reflectors, ballasts, support hardware, and wiring.
2. Ballasts - Fluorescent: Provide ballasts with high-power factor, rapid start, class "P," low noise with "A" sound rating, thermally protected, encased and potted. Ballasts to have 0°F temperature rating.
3. Ballasts – High-Intensity Discharge (HID): Provide HID ballasts with high-power factor, "B" sound rating. Ballasts to have 0°F temperature rating.

I. Over voltage Surge Protection

1. Lightning or Surge Arrester
 - a. 260 volt minimum rated unit in accordance with the latest edition of ANSI C62.2.
 - b. Weatherproof enclosure with corrosion resistant mounting bracket and hardware required for installation as shown on PLANS.
 - c. Manufacturer, type, and catalog number to be General Electric Tranquil Series #9LI5°C or equal by Culter-Hammer or Square D.

J. Electrical Enclosure

1. Free standing 4X enclosure with water and dust tight gasket.
2. 24"x36"x90". Single door along 36" side with continuous hinge, three point latching mechanism, and pad lockable handle.
3. 12 gauge Type 304 stainless steel with welded horizontal interior mounting rails and top mounted heavy duty lifting eyes.
4. Hoffman # A903624SSFSN4 or approved equal.

PART 3 - EXECUTION

3.01 General

- A. Install all equipment and materials in accordance with the recommendations of each equipment manufacturer.
- B. Use only persons skilled in type of work required by PLANS, and Technical Specification Sections.

3.02 PREPARATION (NOT USED)

3.03 ERECTION/INSTALLATION/APPLICATION AND/OR CONSTRUCTION

A. General

- 1. Install all conduits concealed where possible, unless indicated otherwise on the PLANS. All conduits underground to be encased in concrete.
- 2. Level and plumb all equipment. All junction boxes, equipment enclosures, raceways, etc. mounted on water-bearing or earth-bearing walls or other surfaces to be separated from the surface not less than ¼-inch by corrosion-resistant spacers.
- 3. Install pipe caps for conduits marked "spare" and capped bushings for conduits marked "telephone." Leave a nylon pull wire (200# tensile strength) in each spare conduit. Allow 12 inches minimum of slack at each end.
- 4. Identification
 - a. Provide 3-ply black-white-black phenolic nameplates with 3/8-inch-high lettering which properly identifies all electrical equipment and devices such as disconnect switches, control stations, panelboards, etc., as to what they are and the load with which they are associated. Attach nameplates to the equipment with brass screws where possible. Locate adjacent to the equipment if it is not possible to attach to it.
 - b. Provide polyethylene or polyvinyl chloride identification tags which properly identifies all equipment and devices mounted inside all control centers and panels. Manufacturer and type to be Almetek Type Mini-Tags or equal.
 - c. Proper identification of equipment and devices to include tag numbers as shown on PLANS, and/or in Technical Specification Sections.

- B. Rigid Steel Conduit - Above Ground - Indoors - Dry Locations
1. Installation practices to be in accordance with AISI Design Manual "Steel Electrical Raceways" and the NEC.
 2. Exposed Conduits
 - a. Install conduits parallel or perpendicular to walls, structural members, and ceilings.
 - b. Install groups of conduits on Unistrut P-1000 supports or equal. Surface mount on structural members.
 - c. Two or more conduits in the same direction must have symmetrical bends for changes in direction. Use fittings to make changes in direction for conduits larger than 1-inch.
 - d. Support conduits with screw clamp backs, U-bolts, parallel or right angle conduit clamps, as applicable.
 - e. Use locknuts inside and outside of an enclosure and insulating bushings by O-Z/Gedney or equal to connect conduits.
 - f. Cap all conduits during construction.
 - g. Install insulating type grounding bushings equal to O-Z/Gedney Type BLG at the conduit entrance to all electrical equipment such as transformers, motor control centers, and control panels.
 - h. Install conduits to avoid moisture traps. Provide a "T" fitting at the bottom of long vertical conduit runs. Install a Crouse-Hinds ECD or equal drain in the bottom openings of the fitting.
 - i. Install conduit system complete with outlet boxes and fittings before pulling in wiring.
 - j. Support conduits in accordance with the NEC, between couplings, on either side of bends, at terminations, and fittings.
 - k. Use liquid tight flexible conduit in lengths of 24 to 36 inches to connect to motors, solenoid valves, and any equipment subject to vibration.
- C. Rigid Aluminum Conduit - Above Ground - Exposed Outdoors, Wet or Damp Locations
1. Install per paragraph 3.02 B.

2. Conduits in damp locations to be installed so that they are exposed to air circulation on all sides.
3. Use Myers Scru-Tite hubs or equal at all conduit entries to sheet metal enclosures outdoors.

D. Conduits - In Concrete Construction

1. Use rigid steel except where concrete is in contact with water or earth, Schedule 40 PVC to be used in these conditions.
2. Install an O-Z/Gedney Type DX or equal watertight expansion fitting where conduit crosses expansion joints.
3. Install conduit in the middle one-third of the slab or wall thickness.
4. Do not install conduits in slabs or walls if their outside diameter exceeds one-third of the thickness of the slab or wall.
5. Provide 1-½ inches separation between conduits except at panelboard and motor control center locations where conduits have to be grouped.
6. Install conduits at entrance to or exit from concrete construction so that curved portions are not visible externally.
7. Terminate conduits designated for future use with flush conduit coupling and Crouse-Hinds PLG plug or equal. Adjust pipe plug so that it is flush with the finished surface.
8. Sleeves through footings for exterior runs to be O-Z/ Gedney Type FSK or WSK as required or equal by 3M Company or G&W Electric Company.
9. Provide PVC coated rigid steel long radius fittings for all elbows greater than 45 degrees.

E. Conduits - Below Ground

1. PVC Schedule 80
 - a. Install for individual runs and for grouped conduits.
 - d. Grade conduits to pull boxes.
 - e. Draw cleaning mandrel and rag through conduits before installing conductors.
 - f. Transition to be of same material as above ground conduit when connecting to below ground conduit indoors. PVC-coated rigid steel coupling with approved adaptor to be used when

transitioning from below ground conduit to above ground conduit outdoors.

- g. Provide PVC coated rigid steel long radius fittings for bends 45 degrees and larger. For bends less than 45 degrees, make bends with an approved hot box bender.
 - h. Install in accordance with the conduit manufacturer's recommendations. Use solvent weld cement sparingly. Do not use the clear-type fast-drying cement.
 - i. Install markers at the beginning and end of each run, every 100 feet in straight runs, and at all direction changes. Use 12-inches square by 6-inches deep Class C minimum concrete with "ELEC." cast in the concrete. Set top of concrete 1-inch above finished grade. Letters to be 2 inches wide and 3 inches high with ½-inch spacing between letters. Top edge of marker to have 1-inch chamfer at 45E.
- F. Plastic Conduit - Above Ground: Where specifically shown on PLANS, use PVC Schedule 80 heavy wall conduit installed in accordance with manufacturer's recommendations and with a continuous grounding wire.
- G. Wire and Cable
- 1. Size: Not smaller than 12 AWG, except control wire to be minimum 14 AWG stranded.
 - 2. Color Coding: Provide color coding as follows unless otherwise specified by local ordinances:
 - a. Single phase, 120/240 volts - Red (L1), Black (L2), White (N).
 - b. Three phase 120/240 volts - Black (Phase A), Orange (Phase B) Blue (Phase C), Gray (Neutral)
 - c. Three phase, 120/208 volts - Black (Phase A), Red (Phase B), Blue (Phase C), White (Neutral).
 - d. Three phase, 480/277 volts - Brown (Phase A), Purple (Phase B), Yellow (Phase C), Gray (Neutral).
 - e. Control conductors - red.
 - f. Ground wire - green.
 - 3. Where factory color-coded wire is not available, a 1-inch band of colored Scotch tape or equal may be used near the ends of each

conductor. Conductors smaller than No. 8 are not to be taped for color-code.

4. Use Polywater J lubricant to pull all wires.
5. Make all splices and terminations in boxes and only where shown on PLANS. Size per boxes NEC.
6. Use compression type lug connectors on all motor connections and at other equipment subject to vibration.
7. Use compression type connectors on all other connections involving conductors 6 AWG and larger.
8. Use spring lock connectors where compression type are not specified.
9. Do not install more than two 120/240 volt circuits or one 480 volt circuit in one conduit unless indicated otherwise on PLANS.
10. Remove all burrs and swab conduits clean before pulling in wiring.
11. Do not exceed maximum pulling tension or sidewall pressure when installing cable.
12. Terminate stranded wiring by use of lugs or pressure type connectors. Do not terminate stranded wiring by wrapping stranded wire around terminals.
13. Ground shielded cable only at one point, i.e., at the panel, if possible or as recommended by manufacturer of device which shielded cable is connected to. Shields to be continuous throughout the length of the wiring run.
14. Mark all instrumentation and control wiring at each end of a run. Use Brady or approved equal adhesive wire markers.
15. Use cable tags to tag all main and feeder cables in all pull boxes, wireways, wire gutters, panels, and motor control centers. Identify wire or cable number and equipment served.
16. Leave sufficient length on all spare cables and wires to make a connection anywhere within an enclosure. Terminate with insulating tape and tag with a cable tag.

H. Junction and Pull Boxes

1. Install where shown on the PLANS and elsewhere as required to facilitate installation of the wiring system.

2. Plug all unused openings with suitable conduit plug equal to Crouse-Hinds Type PLG.
3. Install in concrete so that the front edge will not set back of the finished surface more than ¼-inch.
4. Provide adequate supports.
5. Install so that covers are accessible for easy removal.
6. Provide enclosures rated for NEMA 4 with breather and drain for outdoor installations.

I. Light Switches and Receptacles

1. Install at the approximate locations shown on PLANS.
2. Light switch mounting height to be 4 feet, 6 inches above finished floor unless otherwise noted.
3. Receptacle mounting height to be 18 inches above finished floor in office and laboratory areas, 8 inches above all counters, 4 feet, 6 inches in all other places unless special mounting height is required by equipment being served or unless otherwise noted.

J. Panelboards

1. Surface mounted as indicated on PLANS.
2. Provide spare conduits stubbed out for future use, as indicated on PLANS.
3. Mount to have top breaker AT 6 feet, 6 inches above finished floor.
4. Type in all circuits on the panel directory card immediately prior to job completion.

K. Grounding

1. Furnish a grounding system as required by the NEC and as further described herein.
2. Ground all electrical equipment, lights, receptacles, etc., with a separate equipment ground wire or a continuous metallic raceway system. Provide a ground conductor for all non-metallic and metallic raceways.
3. Install grounding system electrically and mechanically continuous throughout. Do not bond to the system neutral except at the service entrance.

4. Ground transformer neutrals to their housing, and bond the housing to the equipment grounding conductor.
5. Connect equipment grounding conductors to ground bars or buses provided at panelboards, motor control centers, disconnect switches, switchgear, etc., from which the equipment is served. Install a bonding jumper from the grounding lug on each conduit to the ground bar or bus.
6. Where the equipment has no facility to attach an equipment ground wire, use a Burndy Quicklug or equal. Clean the metal surface under the lug to bright metal so that good contact can be made.
7. Connect equipment grounds to motors using a grounding stud threaded into the stationary frame of the motor in the motor junction box.
8. Make ground connections to equipment by using ground lugs or ground bars where they are provided. Do not make connections to equipment anchor bolts.
9. Use a fusion process, Burndy Thermoweld, Cadweld, or equal, to make connections to ground rods and at any joint or connection which will be inaccessible after construction.
11. Use ground clamps where grounding bushings are not specified. Use copper clamps on copper, brass, or lead pipe. Use galvanized iron on galvanized or iron pipe.
12. Furnish bonding jumpers as shown or as otherwise required by the NEC. Use stranded copper wire.
13. Coat fusion-welded connections with coal tar pitch.
14. Provide a PVC sleeve where ground wire passes through concrete slab.
15. Install sufficient ground rods and wiring so the resistance between metal equipment or structural members and ground is 5 ohms or less.
16. Exposed grounding conductors to be insulated.
17. Connect ground wires entering outlet boxes in such a manner that removal of the receptacle will not interrupt the continuity of the grounding circuit.
18. Connect each motor control center ground bus to the grounding system in at least two locations.

19. Grounding conductor to be same size as phase conductor if required by local code in any part of circuit routed in nonmetallic conduit.
20. Grounding Electrode System (GES) to be provided in compliance with NEC Articles 250-81 and 250-83 and in accordance with the following.
 - a. Metal underground water pipe, metal building frame, concrete-encased electrode, and ground ring to be utilized when available per NEC Article 250-81.
 - b. In addition to items previously listed, a 3/4-inch-diameter copper-clad ground rod with 10-foot minimum length to be installed as part of GES per NEC Article 250-83.

3.04 - 3.05 (NOT USED)

3.06 ADJUSTING

- A. General: Provide all equipment and labor required for calibration, setting, and testing as described herein or otherwise required. All tests to be witnessed by the OWNER and ENGINEER. Give written notification of the tests at least 7 days prior. Repair or replace all defective material, equipment, or workmanship disclosed as a result of these tests at no cost to the OWNER.
- B. Records: Provide the OWNER with a written record of all tests, including the piece of equipment tested, the date tested, weather conditions, test values, and results.
- C. Megger Tests
 1. Use a minimum 500-volt megohmmeter.
 2. Take each reading for at least one minute.
 3. Include the following tests:
 - a. 115-volt and 230-volt motors: 5.0 megohms.
 - b. 460-volt motors: 7.0 megohms.
 - c. 480-volt transformer windings: 100.0 megohms.
 - d. 600-volt wiring up to 1,000 ft.: 25.0 megohms.
 4. Test all transformer windings as follows:
 - a. Primary to ground.
 - b. Secondary to ground.

c. Primary to secondary.

D. Ground Testing

1. Take ground resistance measurements in normally dry weather, not less than 48 hours after rainfall, with the ground under test isolated from other grounds.
2. Measure the resistance of each ground rod. Submit in writing to the OWNER a record indicating the rod location, the resistance measures, and the soil condition at the time.
3. Take ground resistance measurements on the building water service when used as a ground.
4. Install additional grounding if the resistance to ground measures more than 5 ohms at any location.

E. Motors

1. Megger test motors per paragraph 3.06 C.
2. Dry out any wet insulation by use of space heaters or other approved methods.
3. Check coupling alignment, shaft end play, lubrication, and other mechanical checks as required. Follow manufacturer's instructions.
4. Check for proper rotation.

F. Receptacles: Test all receptacles for proper connections and grounding. Use an approved plug in tester, Hubbell 5200, Woodhead 1750, or equal.

G. Control Circuits

1. Check all circuits for continuity, proper connection, and proper operations.
2. Set all time-delay relays and timers for the desired operation. Record the settings indicating the relay or timer, its location, and the setting used. Verify all settings with a stopwatch.

H. Lighting

1. Install lighting fixtures in accordance with fixture manufacturer's written instructions and recognized industry practices.
2. Fasten fixtures securely to structural support members. Ensure that all fixtures are plumb or level.

3. Testing

- a. Upon completion of installation of lighting fixtures and after circuitry has been energized, apply electrical energy to demonstrate proper operation of lighting fixtures and controls.
- b. Install all new incandescent lamps just prior to final inspection. Replace gaseous discharge and fluorescent lamps that are defective, show discolorations, or have exceeded more than 1/3 of their rated life with new lamps for final inspection.
- c. Immediately before final inspection thoroughly clean all fixtures inside and out, including plastics and glassware, adjust all trim to properly fit adjacent surfaces, replace broken or damaged parts and lamp, and test all fixtures for electrical and mechanical operation.

3.07 - 3.10 (NOT USED)

3.11 MEASUREMENT AND PAYMENT

Measurement and payment for electrical items shall be per item and unit description as specified in the bid proposal.

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**SECTION VI
PLANS**

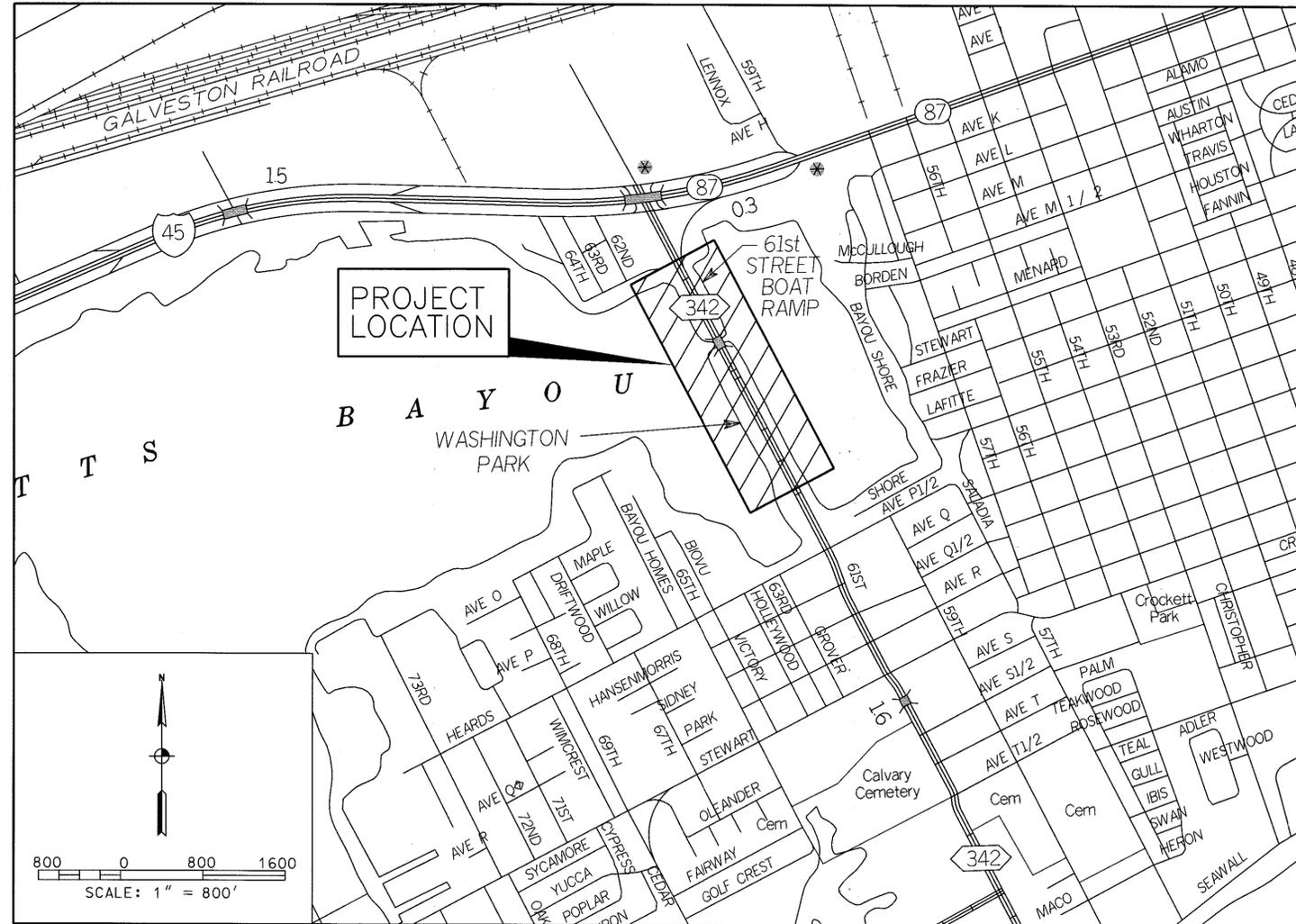
GALVESTON COUNTY DEPARTMENT OF PARKS & SENIOR SERVICES

PLANS FOR CONSTRUCTION OF

LEE & JOE JAMAIL BAY PARK

(61ST STREET BOAT RAMP & WASHINGTON PARK RECREATIONAL AREA)

Galveston, Texas



INDEX OF SET PACKAGES

SET NO.	NAME OF SET
1.	61st STREET BOAT RAMP
2.	WASHINGTON PARK
3.	61st STREET PEDESTRIAN BRIDGE



AECOM

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AECOM PROJECT NO. 60283923

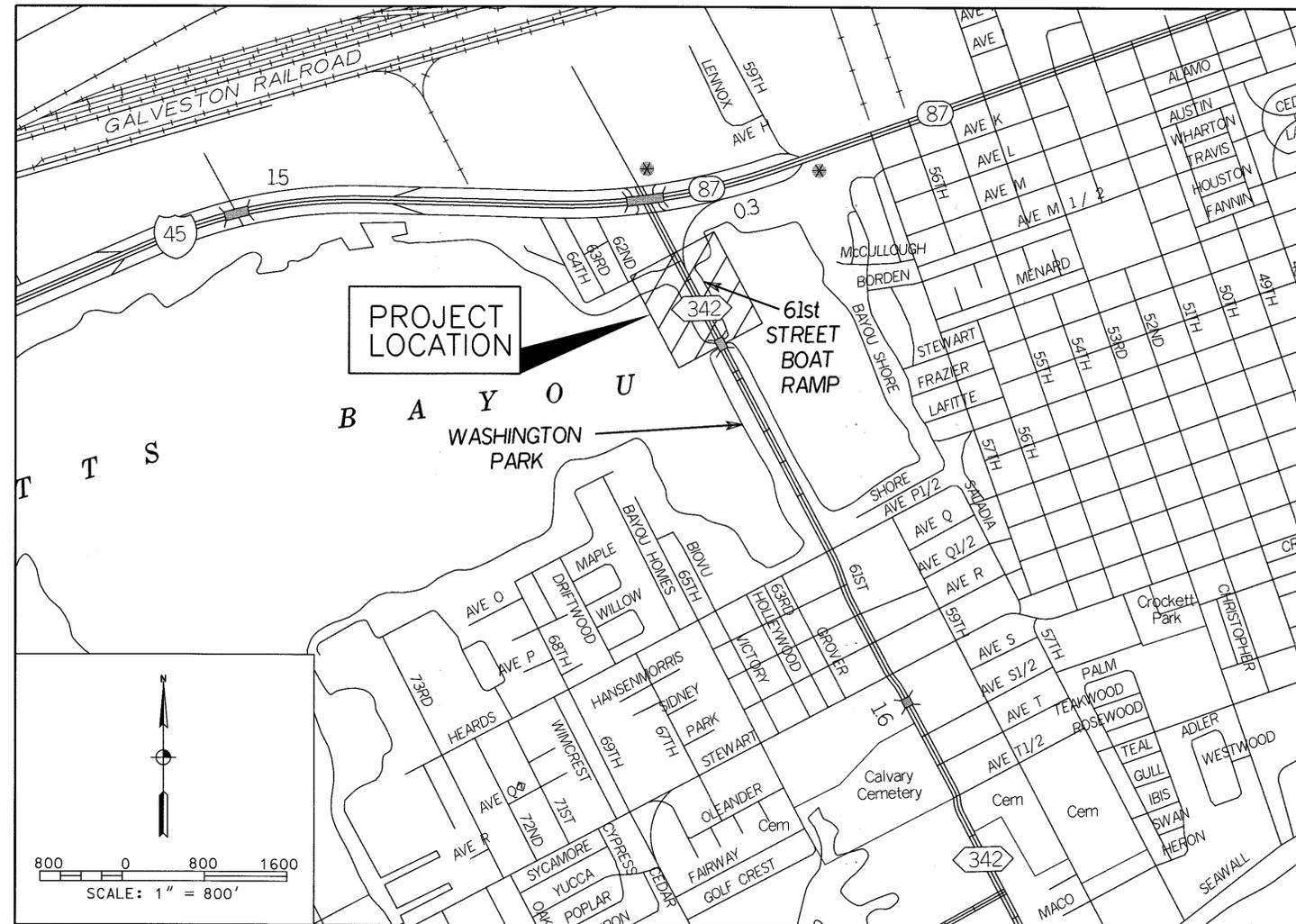
APRIL 2015

SHEET 1 OF 97

NO.	DATE	REVISION	APPROV.
4			
3			
2			
1			

GALVESTON COUNTY DEPARTMENT OF PARKS & SENIOR SERVICES

PLANS FOR CONSTRUCTION OF 61st STREET BOAT RAMP Galveston, Texas



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TBP REG. NO. F-3580



SET NO. 1

PROJECT NO. 60073413

APRIL 2015

SHEET 1 OF 33

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GENERAL CONSTRUCTION NOTES

1. THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES TO THE EXISTING PUBLIC OR PRIVATE LINES, INCLUDING BUT NOT LIMITED TO WATER LINES, WASTEWATER COLLECTION SYSTEMS AND STORM SEWERS, DURING CONSTRUCTION. ALL DAMAGES SHALL BE REPAIRED TO SATISFACTION OF OWNER.
2. THE CONTRACTOR TO GIVE NOTICE TO ALL AUTHORIZED INSPECTORS, SUPERINTENDENTS, OR PERSONS IN CHARGE OF PRIVATE AND PUBLIC UTILITIES AFFECTED BY HIS OPERATIONS PRIOR TO COMMENCEMENT OF WORK.
3. THE CONTRACTOR TO OBTAIN ALL REQUIRED CONSTRUCTION PERMITS PRIOR TO COMMENCEMENT OF WORK. THE CONTRACTOR TO ASSURE HIMSELF THAT ALL CONSTRUCTION PERMITS HAVE BEEN OBTAINED PRIOR TO COMMENCEMENT OF WORK. REQUIRED PERMITS THAT CAN BE ISSUED ONLY TO CONTRACTOR TO BE OBTAINED AT HIS EXPENSE.
4. CONTRACTOR TO VERIFY LOCATION AND ELEVATION OF EXISTING FACILITIES PRIOR TO CONSTRUCTION OF PROPOSED FACILITIES.
5. CONTRACTOR WILL TAKE ALL DUE PRECAUTIONS TO PROTECT EXISTING FACILITIES FROM DAMAGE. ANY DAMAGE TO EXISTING FACILITIES INCURRED AS A RESULT OF CONSTRUCTION OPERATIONS WILL BE REPAIRED BY THE CONTRACTOR AT HIS OWN EXPENSE.
6. THESE PLANS, PREPARED BY AECOM TECHNICAL SERVICES, INC., DO NOT EXTEND TO INCLUDE DESIGN OF SYSTEMS PERTAINING TO THE SAFETY OF THE CONSTRUCTION CONTRACTOR OF ITS EMPLOYEES, AGENTS OR REPRESENTATIVES IN THE PERFORMANCE OF THE WORK. THE SEAL OF AECOM TECHNICAL SERVICES, INC. REGISTERED PROFESSIONAL ENGINEER(S) HEREON DOES NOT EXTEND TO ANY SUCH SAFETY SYSTEMS THAT MAY NOW OR HERE AFTER BE INCORPORATED IN THESE PLANS. THE CONSTRUCTION CONTRACTOR SHALL PREPARE OR OBTAIN THE APPROPRIATE SAFETY SYSTEMS, INCLUDING THE PLANS AND SPECIFICATIONS REQUIRED BY THE HOUSE BILLS 662 AND 665 ENACTED BY THE TEXAS LEGISLATURE IN THE 70TH LEGISLATURE - REGULAR SESSION.
7. CONTRACTOR SHALL NOTIFY THE FOLLOWING AGENCIES 48-HOURS PRIOR TO EXCAVATING NEAR FACILITIES:
 TEXAS-ONE CALL 1-800-245-4545
 LONE STAR NOTIFICATION CENTER (713) 223-4567
 GALVESTON COUNTY (409) 770-5554
 MIKE FITZGERALD (409) 789-2217
 LAYNE HARDING
8. CONTRACTOR TO COMPLY WITH ALL FEDERAL, STATE, AND LOCAL LAWS AND ALL REGULATIONS OF UTILITY COMPANIES CONCERNING SAFETY AND HEALTH PRACTICES.
9. CONTRACTOR TO LOCATE OVERHEAD LINE PRIOR TO BEGINNING ANY CONSTRUCTION AND COMPLY WITH ANY SPECIAL RESTRICTIONS. TEXAS LAW, SESSION 752, HEALTH & CODE, GOVERNING ANY ACTIVITIES WHICH MAY CAUSE PEOPLE OR OBJECTS TO APPROACH LIVE OVERHEAD HIGH VOLTAGE LINE BE STRICTLY ADHERED TO. CONTRACTOR AND OWNER'S ARE LEGALLY RESPONSIBLE FOR SAFETY OF CONSTRUCTION WORKERS UNDER THIS LAW. THIS LAW CARRIES BOTH CRIMINAL AND CIVIL LIABILITY.
10. IT IS AECOM'S UNDERSTANDING THAT THE VOLTAGE OF EXISTING PRIMARY OVERHEAD LINES ON THE WEST SIDE OF 61ST STREET IS 12 KV. IT IS THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE WITH CENTERPOINT ENERGY TO VERIFY OVERHEAD LINE VOLTAGES PRIOR TO CONSTRUCTION TO DETERMINE LINE CLEARANCE DISTANCES THAT NEED TO BE ADHERED TO DURING CONSTRUCTION.
11. CONTRACTOR RESPONSIBLE FOR REMOVING ALL EXISTING EQUIPMENT NECESSARY TO FACILITATE WORK.
12. CONTRACTOR RESPONSIBLE FOR REINSTALLING ANY EQUIPMENT REMOVED DURING CONSTRUCTION.
13. CONTRACTOR RESPONSIBLE FOR PROVIDING A FULLY FUNCTIONAL SYSTEM FOR WORK PERFORMED UNDER THIS CONTRACT.
14. ALL CONNECTION HARDWARE SHALL BE 304 OR 316 STAINLESS. IF HARDWARE FOR DOCK CONSTRUCTION IS NOT SPECIFICALLY CALLED FOR, IT IS THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE THE HARDWARE TO MEET A SALTWATER ENVIRONMENT AND TO PROPERLY INSTALL AND SECURE THE DOCK. COST FOR ALL HARDWARE IS INCIDENTAL TO THE BID ITEM(S) TO WHICH THE WORK PERTAINS.
15. CONTRACTOR RESPONSIBLE FOR FURNISHING, INSTALLING, AND REMOVING TEMPORARY CONSTRUCTION FENCING USED TO SECURE THE JOB SITE. COST OF TEMPORARY CONSTRUCTION FENCING IS INCIDENTAL TO THE WORK.



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GALVESTON COUNTY
61ST STREET BOAT RAMP

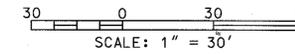
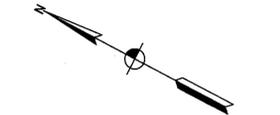
GENERAL CONSTRUCTION NOTES



AECOM TECHNICAL SERVICES, INC.
5444 WESTHEIMER RD, SUITE 200
HOUSTON, TEXAS 77056
WWW.AECOM.COM
TBPE REG. NO. F-3580

Unit PUBLIC WORKS	Scale: N/A	Date APRIL 2015
Designed LNH	Checked WRB	Project No. 60073413
Drawn JS	Approved LNH	Sheet 2 of 33

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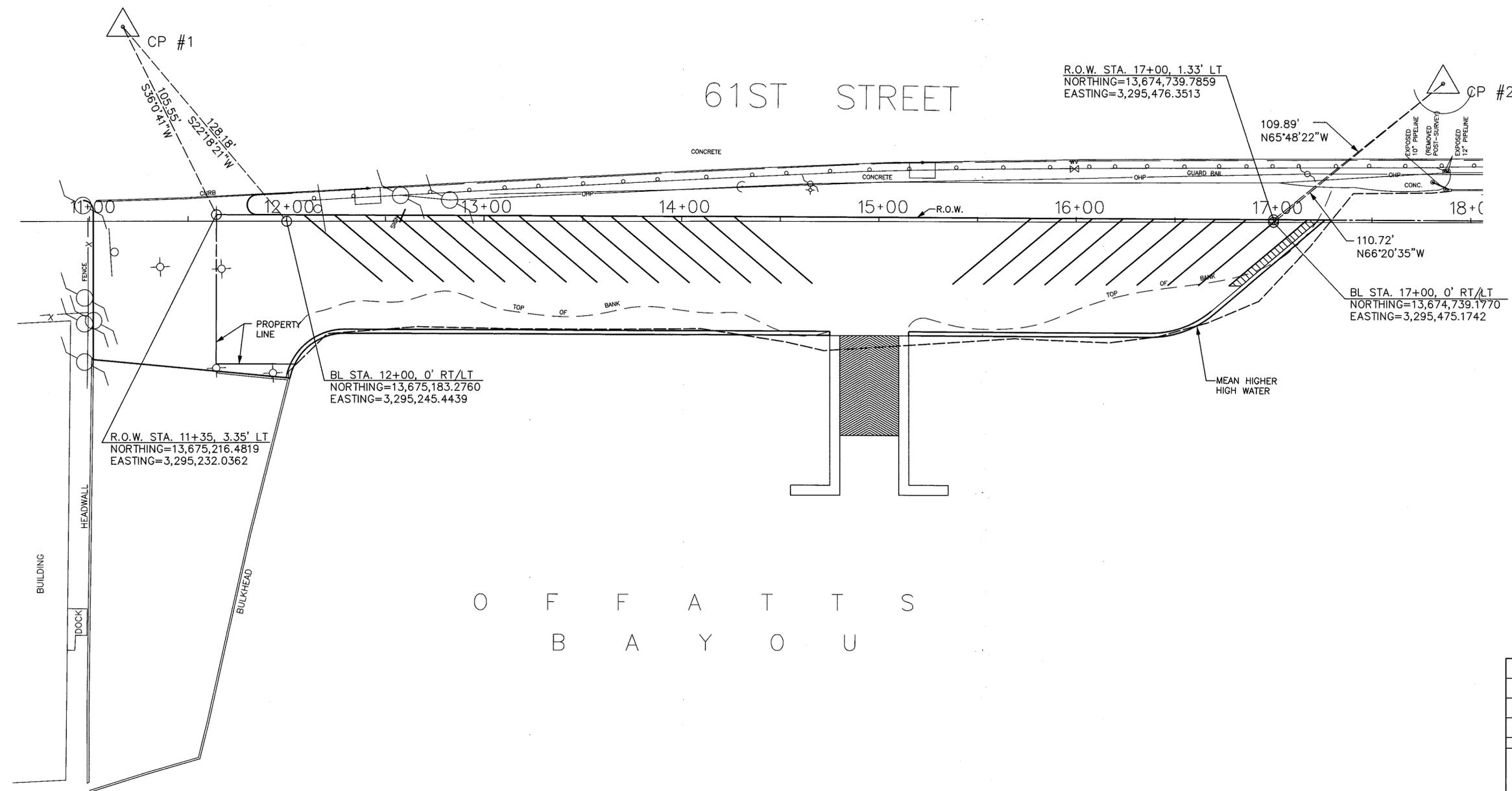
BENCHMARKS

CP #1 - SET COTTON SPINDAL
 2.6' WEST OF BACK OF CURB,
 109.5' SOUTH OF LIGHT POLE,
 47.4' SOUTHWEST OF END OF GUARDRAIL
 AND 65.4' NORTHWEST OF CURB INLET.
 NORTHING = 13675301.86
 EASTING = 3295294.093
 ELEV = 7.39.

CP #2 - SET 5/8" IR W/RED CAP
 4.3' EAST OF BACK OF CURB,
 6.4' WEST OF BACK OF CURB AND
 3.2' NORTH OF EDGE OF CONCRETE.
 NORTHING = 13674694.75
 EASTING = 3295576.589
 ELEV = 12.86.

NOTES

COORDINATES ARE REFERENCED TO NAD 83
 (1993 ADJUSTMENTS).
 ELEVATIONS ARE BASED ON NAVD 88 DATUM.



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GALVESTON COUNTY
 61ST STREET BOAT RAMP

SURVEY CONTROL

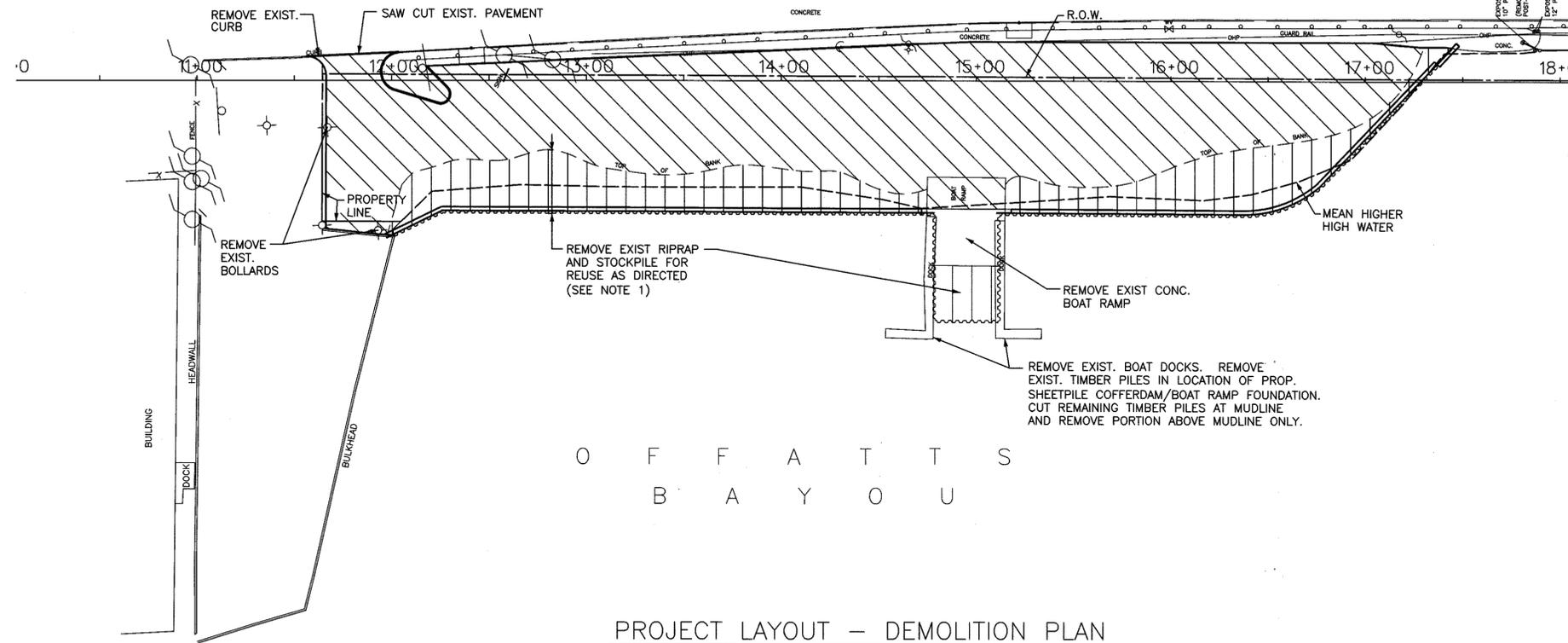


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Unit	PUBLIC WORKS	Scale:	1"=30'	Date	APRIL 2015
Designed	LNH	Checked	WRB	Project No.	60073413
Drawn	JS	Approved	LNH	Sheet	3 of 33

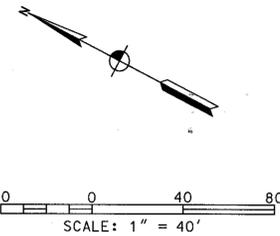
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61ST STREET

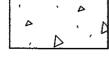


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PROJECT LAYOUT - DEMOLITION PLAN



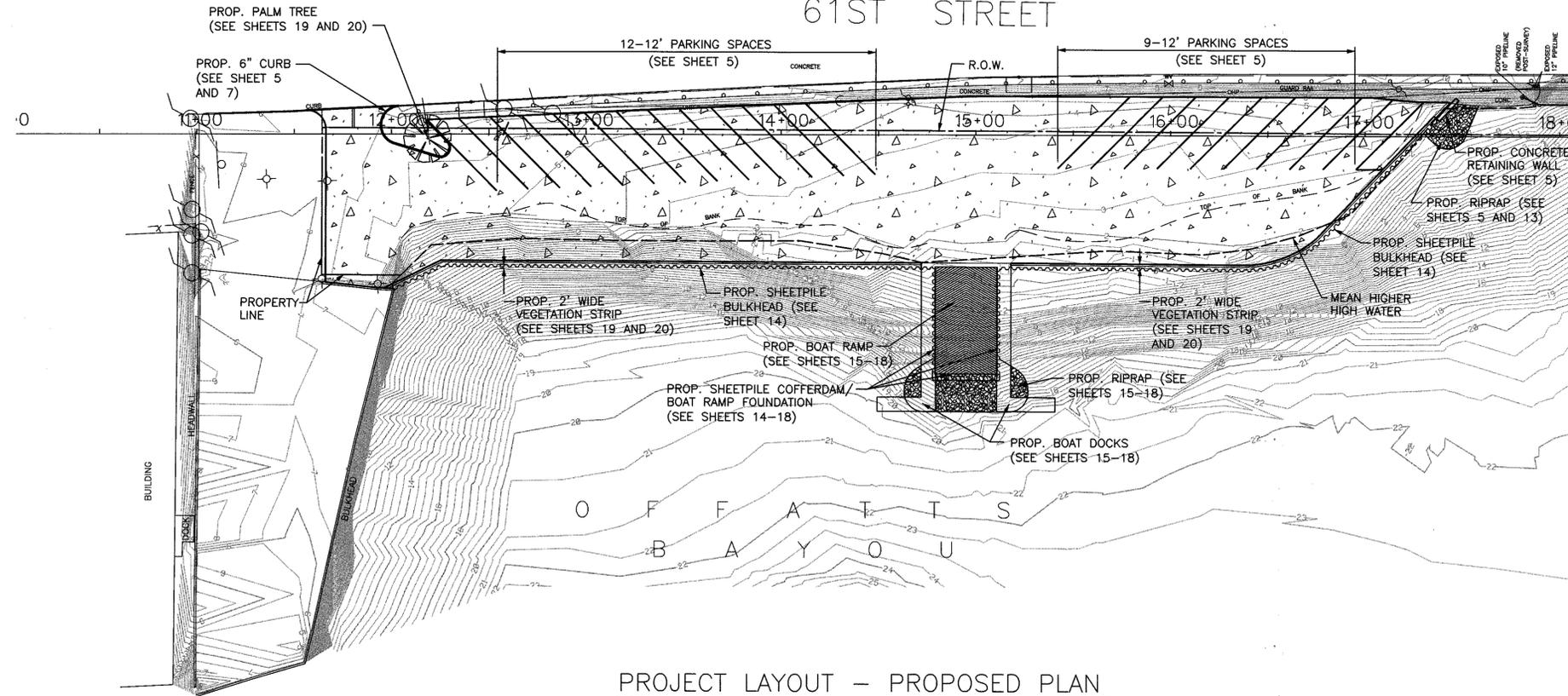
LEGEND:

-  REMOVE EXIST. RIPRAP ALONG SHORELINE (SEE NOTE 1)
-  REMOVE EXIST. GRAVEL/ASPHALT PAVING
-  PROPOSED 7" CONCRETE (SEE SHEETS 5-7)

NOTES:

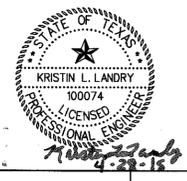
1. ALL EXISTING RIPRAP SHORE PROTECTION WITHIN THE LIMITS AS SHOWN SHALL BE REMOVED AS PART OF THE PROJECT. THIS RIPRAP CONSISTS OF PIECES OF GRANITE, CONCRETE, AND OTHER MISCELLANEOUS MATERIALS. SUITABLE RIPRAP, AS DETERMINED BY THE OWNER, SHALL BE STOCKPILED AND RELOCATED EVENLY ALONG THE SHORELINE BELOW THE MEAN HIGHER HIGH WATER ELEVATION. UNSUITABLE RIPRAP, AS DETERMINED BY THE OWNER, IS THE PROPERTY OF THE CONTRACTOR AND SHALL BE DISPOSED OF IN ACCORDANCE WITH FEDERAL, STATE, AND LOCAL REGULATIONS.

61ST STREET



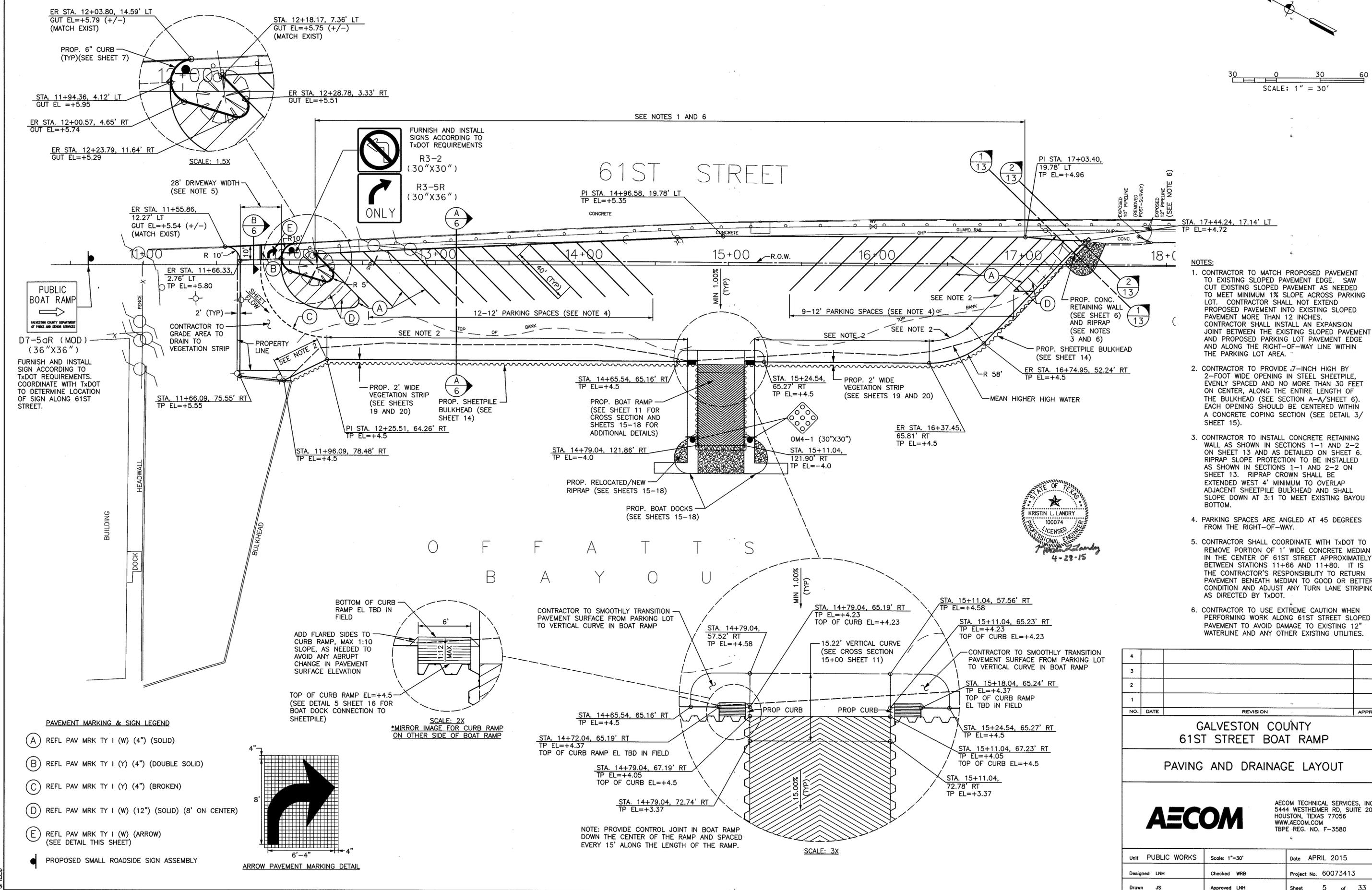
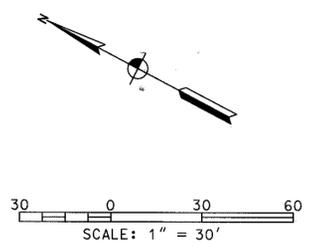
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PROJECT LAYOUT - PROPOSED PLAN



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NO.	DATE	REVISION	APPROV.
GALVESTON COUNTY 61ST STREET BOAT RAMP DEMOLITION AND PROPOSED LAYOUT			
		AECOM TECHNICAL SERVICES, INC. 5444 WESTHEIMER RD, SUITE 200 HOUSTON, TEXAS 77056 WWW.AECOM.COM TBPE REG. NO. F-3580	
Unit	PUBLIC WORKS	Scale:	1"=40'
Designed	LNH	Checked	WRB
Drawn	JS	Approved	LNH
Date	APRIL 2015	Project No.	60073413
Sheet	4	of	33

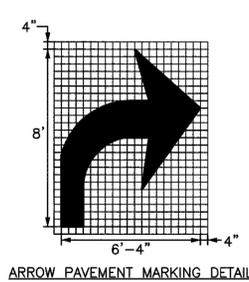
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- NOTES:**
- CONTRACTOR TO MATCH PROPOSED PAVEMENT TO EXISTING SLOPED PAVEMENT EDGE. SAW CUT EXISTING SLOPED PAVEMENT AS NEEDED TO MEET MINIMUM 1% SLOPE ACROSS PARKING LOT. CONTRACTOR SHALL NOT EXTEND PROPOSED PAVEMENT INTO EXISTING SLOPED PAVEMENT MORE THAN 12 INCHES. CONTRACTOR SHALL INSTALL AN EXPANSION JOINT BETWEEN THE EXISTING SLOPED PAVEMENT AND PROPOSED PARKING LOT PAVEMENT EDGE AND ALONG THE RIGHT-OF-WAY LINE WITHIN THE PARKING LOT AREA.
 - CONTRACTOR TO PROVIDE 7-INCH HIGH BY 2-FOOT WIDE OPENING IN STEEL SHEETPILE, EVENLY SPACED AND NO MORE THAN 30 FEET ON CENTER, ALONG THE ENTIRE LENGTH OF THE BULKHEAD (SEE SECTION A-A/SHEET 6). EACH OPENING SHOULD BE CENTERED WITHIN A CONCRETE COPING SECTION (SEE DETAIL 3/SHEET 15).
 - CONTRACTOR TO INSTALL CONCRETE RETAINING WALL AS SHOWN IN SECTIONS 1-1 AND 2-2 ON SHEET 13 AND AS DETAILED ON SHEET 6. RIPRAP SLOPE PROTECTION TO BE INSTALLED AS SHOWN IN SECTIONS 1-1 AND 2-2 ON SHEET 13. RIPRAP CROWN SHALL BE EXTENDED WEST 4' MINIMUM TO OVERLAP ADJACENT SHEETPILE BULKHEAD AND SHALL SLOPE DOWN AT 3:1 TO MEET EXISTING BAYOU BOTTOM.
 - PARKING SPACES ARE ANGLED AT 45 DEGREES FROM THE RIGHT-OF-WAY.
 - CONTRACTOR SHALL COORDINATE WITH TxDOT TO REMOVE PORTION OF 1' WIDE CONCRETE MEDIAN IN THE CENTER OF 61ST STREET APPROXIMATELY BETWEEN STATIONS 11+66 AND 11+80. IT IS THE CONTRACTOR'S RESPONSIBILITY TO RETURN PAVEMENT BENEATH MEDIAN TO GOOD OR BETTER CONDITION AND ADJUST ANY TURN LANE STRIPING AS DIRECTED BY TxDOT.
 - CONTRACTOR TO USE EXTREME CAUTION WHEN PERFORMING WORK ALONG 61ST STREET SLOPED PAVEMENT TO AVOID DAMAGE TO EXISTING 12" WATERLINE AND ANY OTHER EXISTING UTILITIES.



- PAVEMENT MARKING & SIGN LEGEND**
- (A) REFL PAV MRK TY I (W) (4") (SOLID)
 - (B) REFL PAV MRK TY I (Y) (4") (DOUBLE SOLID)
 - (C) REFL PAV MRK TY I (Y) (4") (BROKEN)
 - (D) REFL PAV MRK TY I (W) (12") (SOLID) (8' ON CENTER)
 - (E) REFL PAV MRK TY I (W) (ARROW) (SEE DETAIL THIS SHEET)
 - PROPOSED SMALL ROADSIDE SIGN ASSEMBLY



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**GALVESTON COUNTY
61ST STREET BOAT RAMP**

PAVING AND DRAINAGE LAYOUT

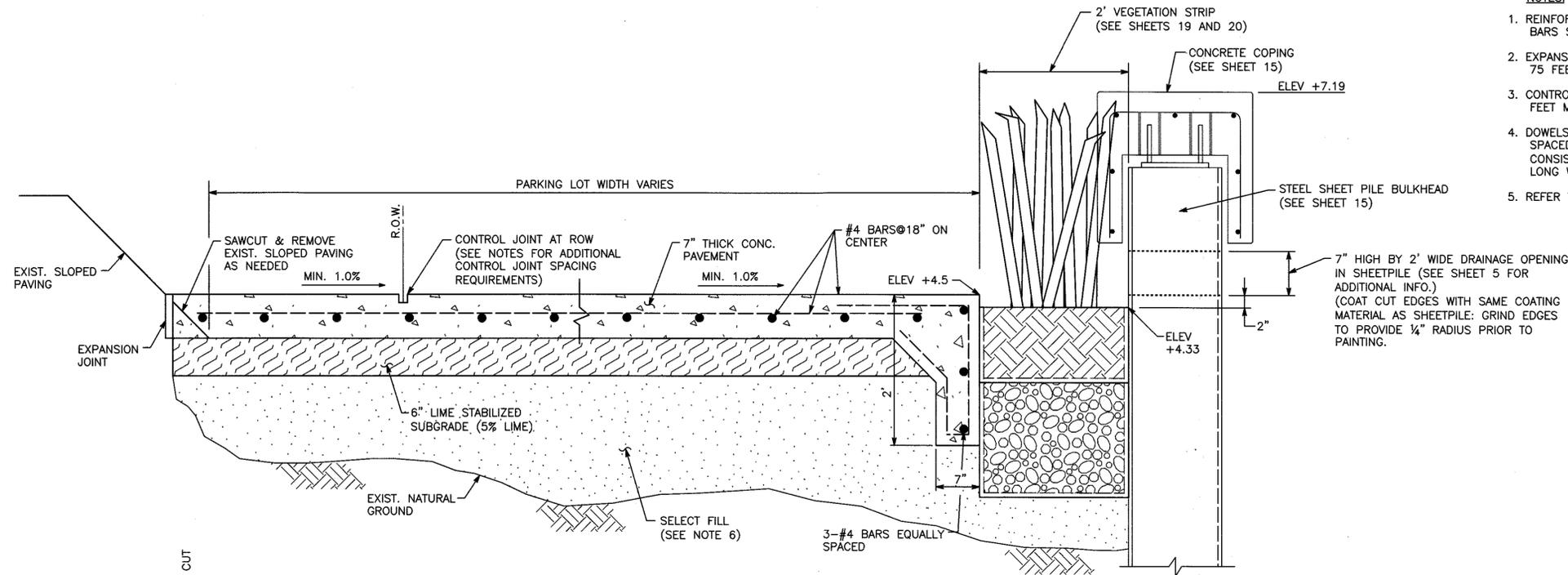
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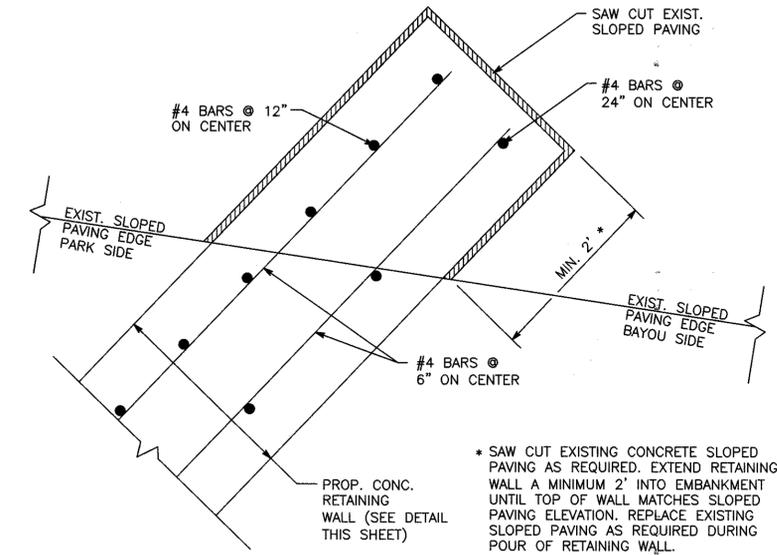
Unit	PUBLIC WORKS	Scale:	1"=30'	Date	APRIL 2015
Designed	LNH	Checked	WRB	Project No.	60073413
Drawn	JS	Approved	LNH	Sheet	5 of 33

NOTES:

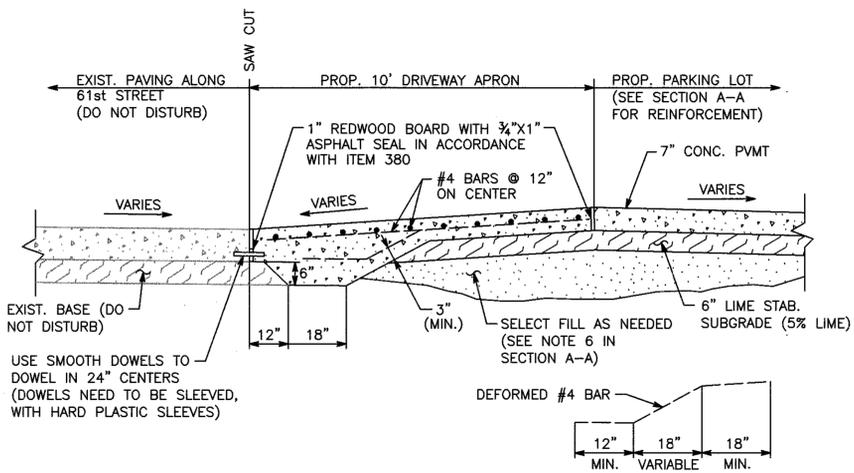
1. REINFORCING STEEL SHOULD CONSIST OF #4 BARS SPACED AT 18 INCHES ON CENTER.
2. EXPANSION JOINTS SHOULD BE PLACED EVERY 75 FEET MAXIMUM, EVENLY.
3. CONTROL JOINTS SHOULD BE PLACED EVERY 15 FEET MAXIMUM, EVENLY.
4. DOWELS AT EXPANSION JOINTS SHOULD BE SPACED EVERY 14-INCHES ON CENTER AND CONSIST OF 7/8-INCH DIAMETER, 14 INCHES LONG WITH 6-INCH EMBEDMENT.
5. REFER TO SHEET 5 FOR DRAINAGE INFORMATION.
6. SELECT FILL SHOULD BE COMPOSED OF CLEAN LEAN CLAY, SANDY LEAN CLAY, OR CLAYEY SAND SOILS WITH A PLASTICITY INDEX RANGING BETWEEN 10 AND 20 PERCENT. SELECT FILL SHOULD BE PLACED ON PREPARED SURFACES IN LIFTS NOT TO EXCEED 8 INCHES LOOSE MEASURE, WITH COMPACTED THICKNESS NOT TO EXCEED 6 INCHES. SELECT FILL SHOULD BE COMPACTED TO AT LEAST 95 PERCENT OF THE STANDARD EFFORT (ASTM D 698) MAXIMUM DRY DENSITY AT A MOISTURE CONTENT WITHIN 2 PERCENT OF THE OPTIMUM MOISTURE CONTENT.



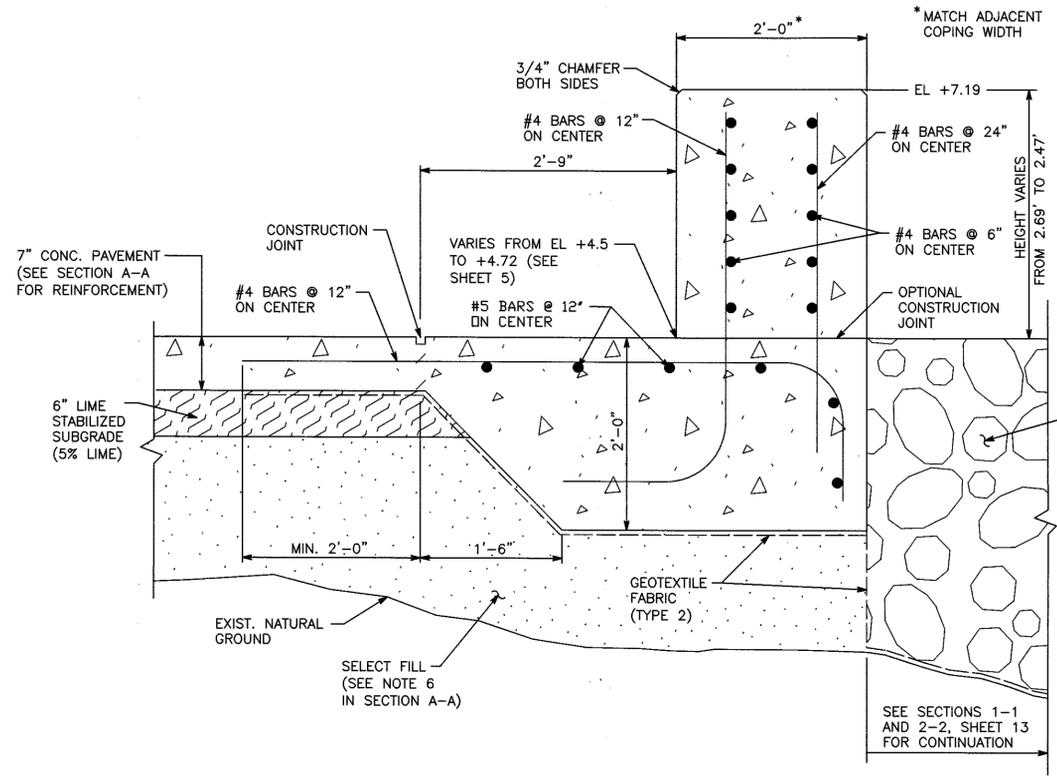
SECTION A-A
SCALE: 1"=1'



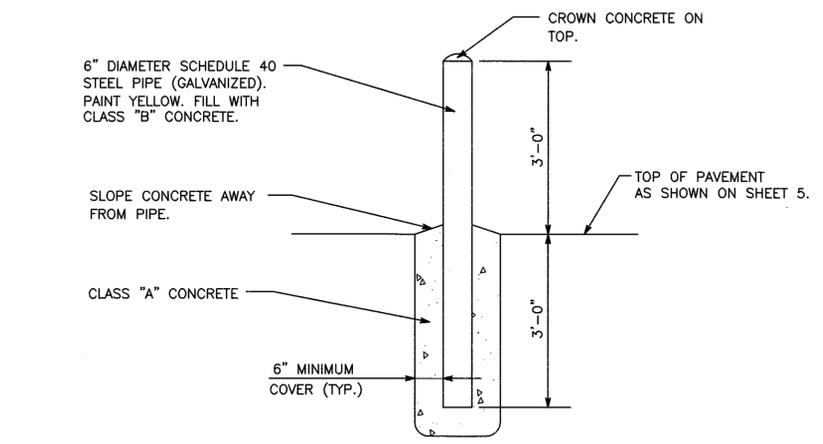
**SOUTH CLOSURE DETAIL
RETAINING WALL PLAN VIEW**
SCALE: NTS



SECTION B-B
SCALE: NTS

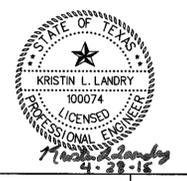


CONCRETE RETAINING WALL DETAIL
SCALE: NTS



STEEL PIPE BOLLARD DETAIL
SCALE: NTS

* SAW CUT EXISTING CONCRETE SLOPED PAVING AS REQUIRED. EXTEND RETAINING WALL A MINIMUM 2' INTO EMBANKMENT UNTIL TOP OF WALL MATCHES SLOPED PAVING ELEVATION. REPLACE EXISTING SLOPED PAVING AS REQUIRED DURING POUR OF RETAINING WALL.



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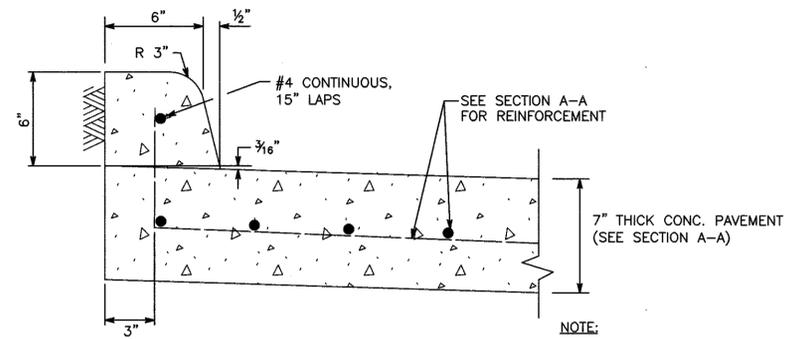
**GALVESTON COUNTY
61ST STREET BOAT RAMP**
PAVING, DRAINAGE, AND MISCELLANEOUS
DETAILS (SHEET 1 OF 2)



AECOM TECHNICAL SERVICES, INC.
5444 WESTHEIMER RD., SUITE 200
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Drawn	BS	Approved	MMH	Sheet	6 of 33

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NOTE:
 FINISH TO BE ACCOMPLISHED BY FLOATING,
 STEEL TROWELLING AND THEN BRUSHING. HAND
 FINISH NOT REQUIRED WHEN CURB IS POURED
 BY A MACHINE, BUT CURB WILL HAVE THE
 SAME OUTSIDE DIMENSIONS, AND HAVE A
 BRUSHED FINISH.

DOWELLED-ON CURB DETAIL
 SCALE: NTS



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GALVESTON COUNTY
 61ST STREET BOAT RAMP
 PAVING, DRAINAGE, AND MISCELLANEOUS
 DETAILS (SHEET 2 OF 2)



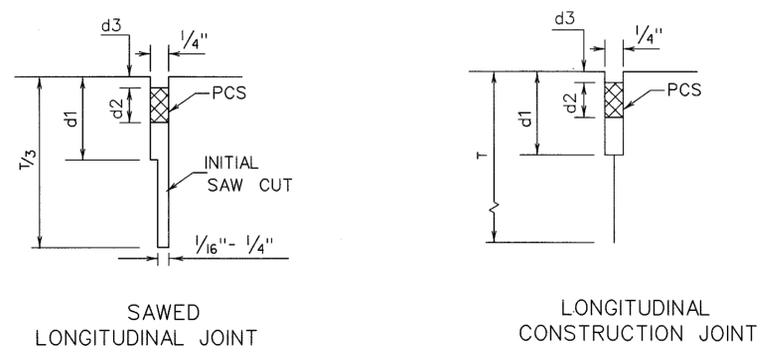
AECOM TECHNICAL SERVICES, INC.
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Unit	PUBLIC WORKS	Scale:	AS SHOWN	Date	APRIL 2015
Designed	LNH	Checked	WRB	Project No.	60073413
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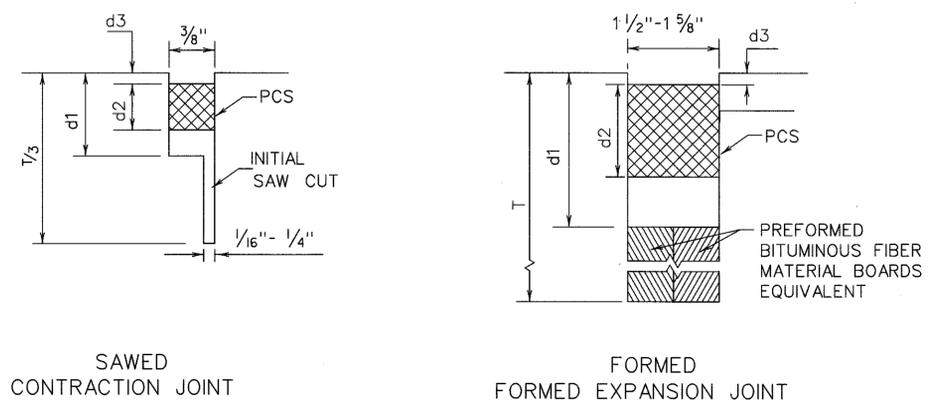
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LEVELS DISPLAYED:
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 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32
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 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63



LONGITUDINAL JOINT SEALS

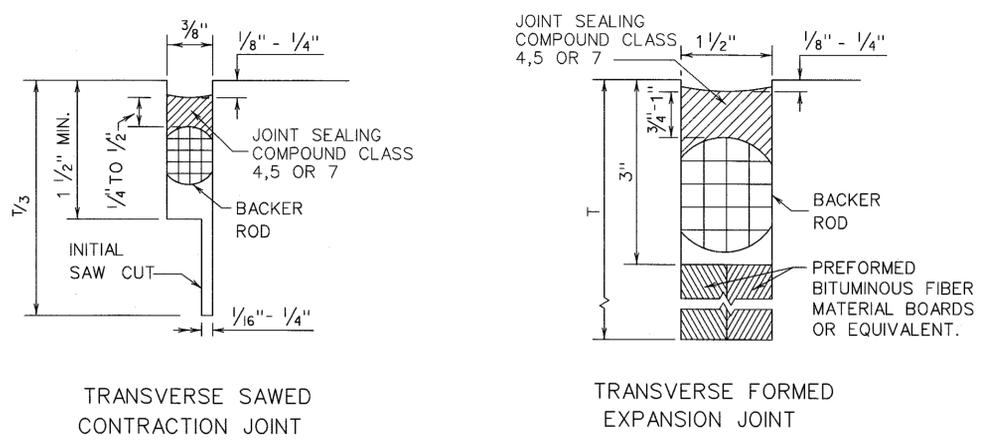
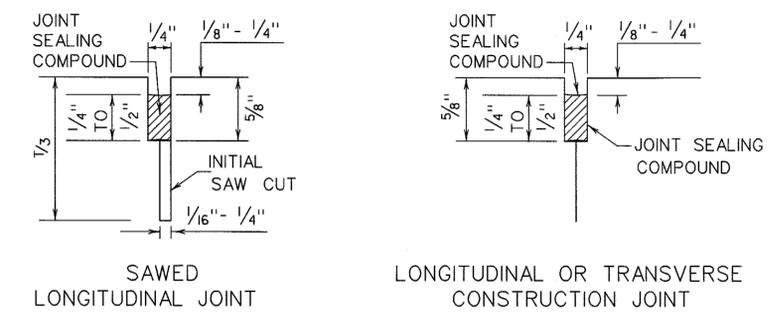


TRANSVERSE JOINT SEALS

METHOD A: PREFORMED COMPRESSION SEALS (PCS)
 (CLASS 6 PREFORMED JOINT SEALANT)

GENERAL NOTES FOR METHOD "A"

- UNLESS OTHERWISE SHOWN IN THE PLANS, EITHER METHOD "A" OR METHOD "B" MAY BE USED.
- THE LOCATION OF JOINTS SHALL BE AS SHOWN ELSEWHERE IN THE PLANS.
- DIMENSIONS d1, d2, AND d3 SHALL BE IN ACCORDANCE WITH THE PREFORMED COMPRESSION SEAL MANUFACTURER'S RECOMMENDATION.
- THE JOINT RESERVOIR FOR SEALANT SHALL BE SAWED UNLESS OTHERWISE SHOWN ON THE PLANS FOR THE LONGITUDINAL AND TRANSVERSE CONSTRUCTION AND THE TWO SAWED JOINTS.
- THE JOINTS SHALL BE CLEANED IN ACCORDANCE WITH THE ITEM 438 AND PRIOR TO BEGINNING OPERATIONS, THE CONTRACTOR SHALL SUBMIT A STATEMENT FROM THE SEALANT MANUFACTURER SHOWING THE RECOMMENDED EQUIPMENT AND INSTALLATION PROCEDURES TO BE USED.
- THE SAW CUT FOR THE LONGITUDINAL JOINT SHALL BE ONE FOURTH THE SLAB THICKNESS WHEN CRUSHED LIMESTONE IS USED AS THE COARSE AGGREGATE.



METHOD B: JOINT SEALING COMPOUND

GENERAL NOTES FOR METHOD "B"

- UNLESS OTHERWISE SHOWN IN THE PLANS, EITHER METHOD "A" OR METHOD "B" MAY BE USED.
- THE LOCATION OF JOINTS SHALL BE AS SHOWN ELSEWHERE IN THE PLANS.
- THE ENGINEER SHALL SELECT A TARGET PLACEMENT THICKNESS FOR THE SEALANT DETAILS WHICH SHOW RANGES IN THICKNESS. THE TARGET THICKNESS WILL NORMALLY BE THE MIDPOINT OF THE RANGE.
- THE JOINT RESERVOIR FOR SEALANT SHALL BE SAWED UNLESS OTHERWISE SHOWN ON THE PLANS FOR THE LONGITUDINAL AND TRANSVERSE CONSTRUCTION AND THE TWO SAWED JOINTS.
- THE JOINTS SHALL BE CLEANED IN ACCORDANCE WITH THE ITEM 438 AND PRIOR TO BEGINNING OPERATIONS, THE CONTRACTOR SHALL SUBMIT A STATEMENT FROM THE SEALANT MANUFACTURER SHOWING THE RECOMMENDED EQUIPMENT AND INSTALLATION PROCEDURES TO BE USED.
- THE SAW CUT FOR THE LONGITUDINAL JOINT SHALL BE ONE FOURTH THE SLAB THICKNESS WHEN CRUSHED LIMESTONE IS USED AS THE COARSE AGGREGATE.



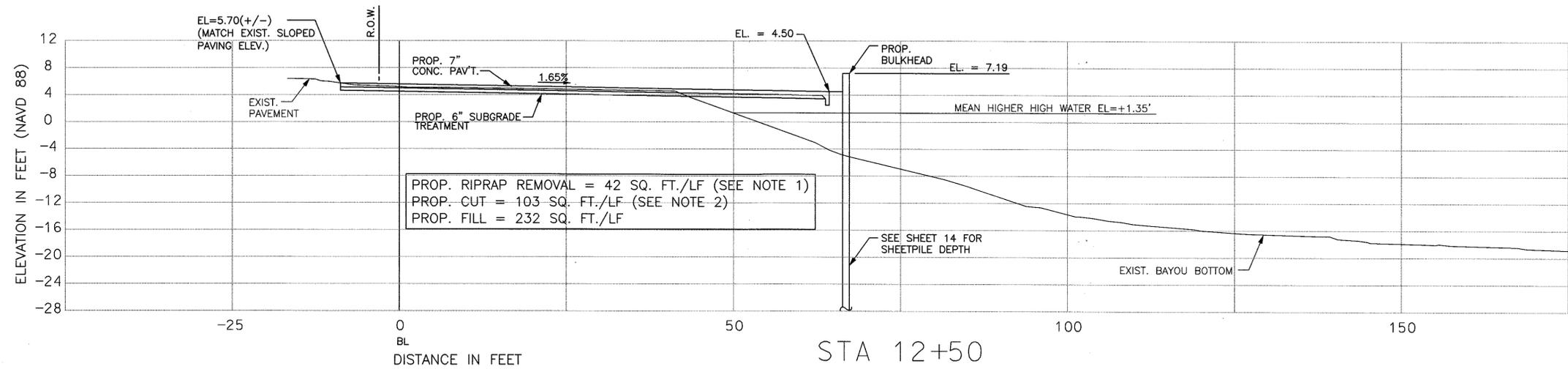
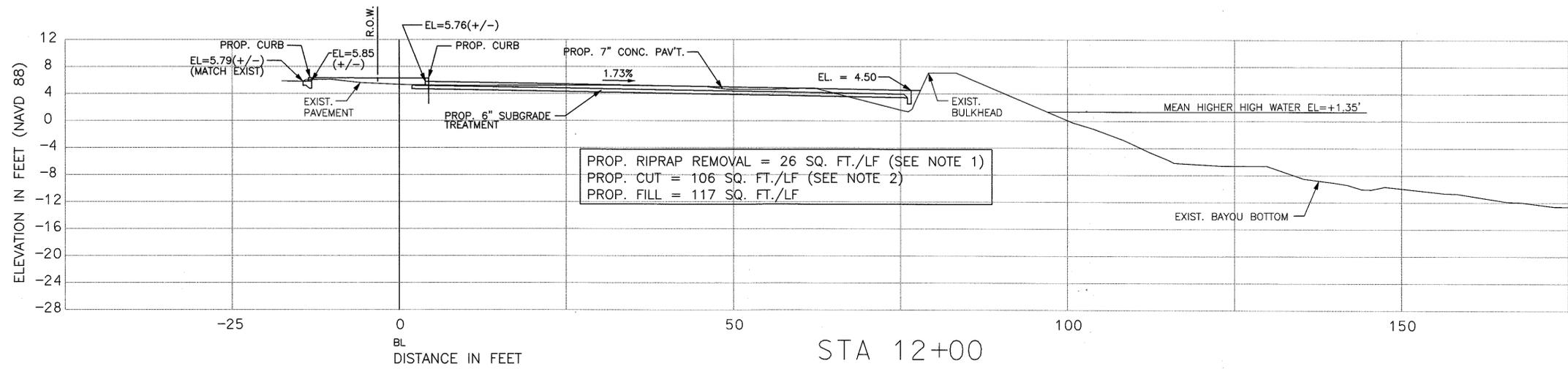
CONCRETE PAVING DETAILS
 JOINT SEALS

JS-94

© TxDOT SEPTEMBER 1994		DN- LJB	CK- LJB	DN- BGD	CK- GLG
MODIFICATIONS		DISTRICT	FEDERAL AID PROJECT		SHEET
		COUNTY	CONTROL SECTION	JOB	HIGHWAY

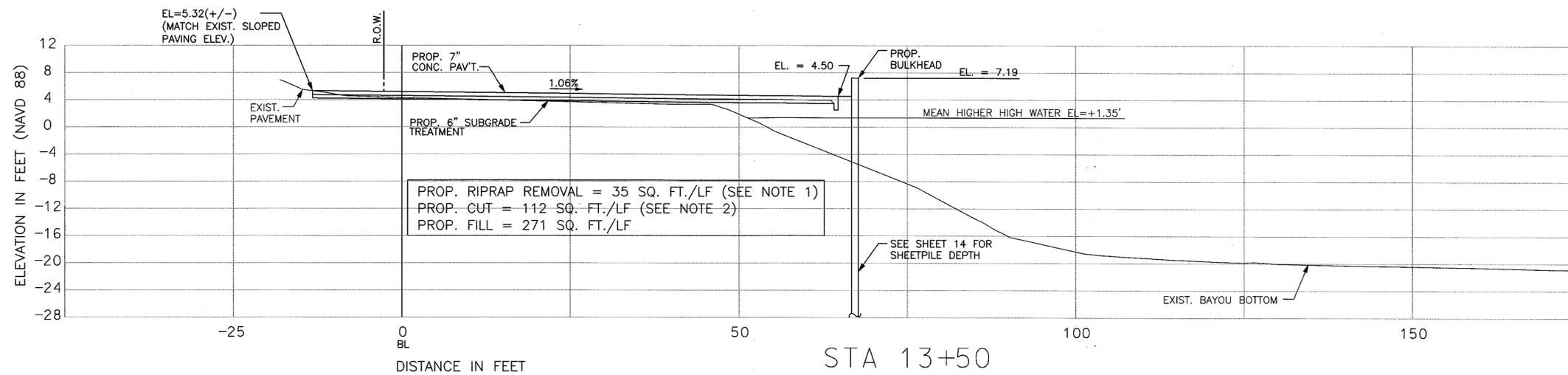
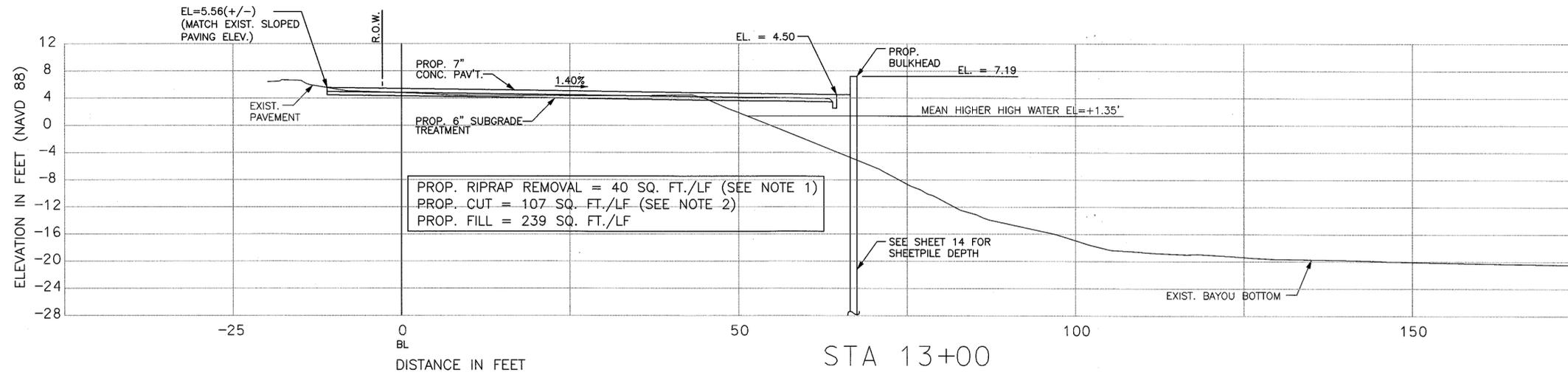
NOTES:

1. RIPRAP REMOVAL INVOLVES REMOVAL OF ALL EXISTING RIPRAP SHORE PROTECTION WITHIN THE PARK AREA UP TO THE BULKHEAD AND ASSUMES REMOVAL OF 18 INCHES OF EXISTING RIPRAP SHORE PROTECTION OVER THE ENTIRE AREA TO BE REMOVED.
2. CUT INVOLVES REMOVAL OF APPROXIMATELY 6 INCHES EXISTING SURFACE MATERIAL (INCLUDING GRASS, SOIL, GRAVEL, CONCRETE, ASPHALT, BASE, AND DEBRIS) AND MINIMUM 12 INCHES OF SURFICIAL SOILS BENEATH EXISTING SURFACE MATERIAL AND BENEATH EXISTING ROCK SHORE PROTECTION TO REMOVE EXISTING UNSUITABLE MATERIAL PRIOR TO PLACEMENT OF FILL SOIL IN AREAS WHERE PROPOSED PAVEMENT IS TO BE INSTALLED.



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NO.	DATE	REVISION	APPROV.
GALVESTON COUNTY 61ST STREET BOAT RAMP			
CROSS SECTIONS (SHEET 1 OF 5)			
		AECOM TECHNICAL SERVICES, INC. 5444 WESTHEIMER RD, SUITE 200 HOUSTON, TEXAS 77056 WWW.AECOM.COM TBPE REG. NO. F-3580	
Unit	PUBLIC WORKS	Scale:	1"=10 (H & V)
Designed	LNH	Checked	WRB
Drawn	JS	Approved	LNH
Date	APRIL 2015	Project No.	60073413
		Sheet	9 of 33

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NOTES:

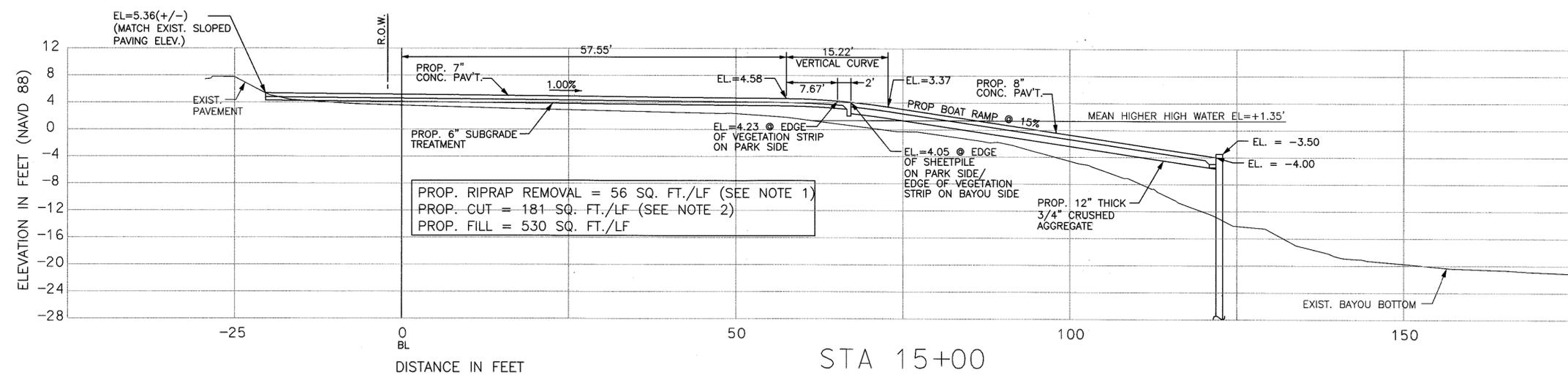
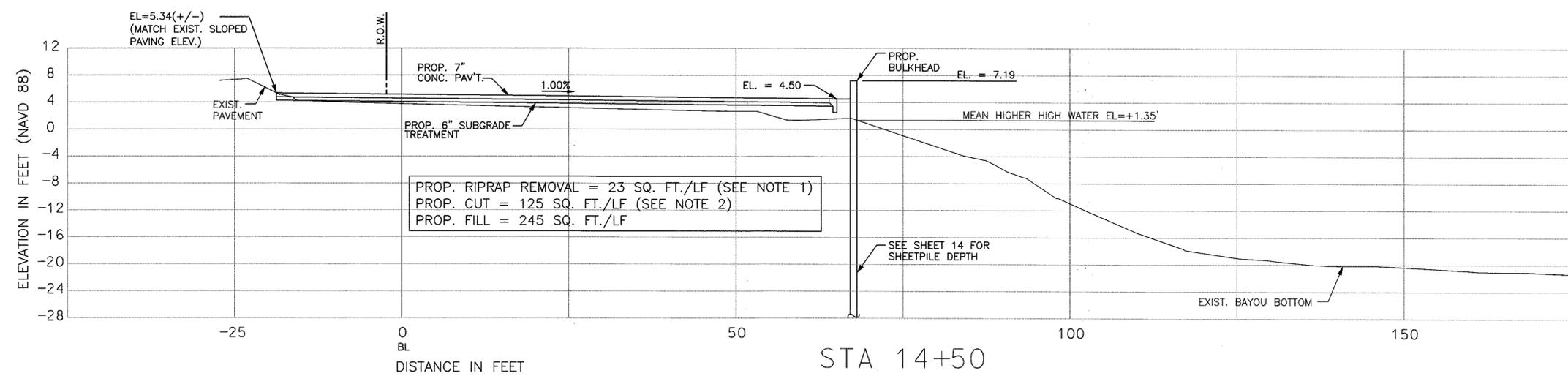
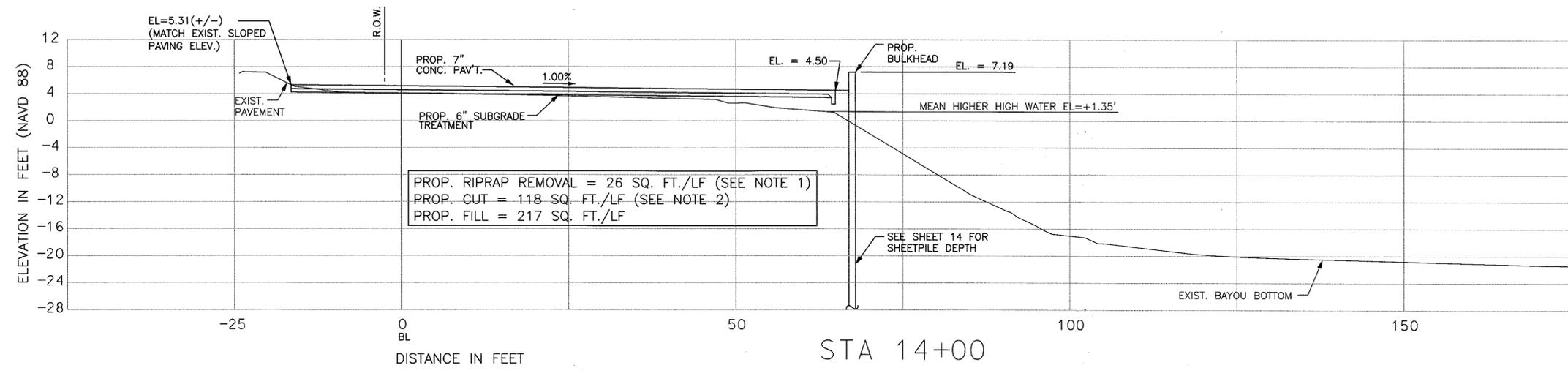
1. RIPRAP REMOVAL INVOLVES REMOVAL OF ALL EXISTING RIPRAP SHORE PROTECTION WITHIN THE PARK AREA UP TO THE BULKHEAD AND ASSUMES REMOVAL OF 18 INCHES OF EXISTING RIPRAP SHORE PROTECTION OVER THE ENTIRE AREA TO BE REMOVED.
2. CUT INVOLVES REMOVAL OF APPROXIMATELY 6 INCHES EXISTING SURFACE MATERIAL (INCLUDING GRASS, SOIL, GRAVEL, CONCRETE, ASPHALT, BASE, AND DEBRIS) AND MINIMUM 12 INCHES OF SURFICIAL SOILS BENEATH EXISTING SURFACE MATERIAL AND BENEATH EXISTING ROCK SHORE PROTECTION TO REMOVE EXISTING UNSUITABLE MATERIAL PRIOR TO PLACEMENT OF FILL SOIL IN AREAS WHERE PROPOSED PAVEMENT IS TO BE INSTALLED.



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NO.	DATE	REVISION	APPROV.
GALVESTON COUNTY 61ST STREET BOAT RAMP			
CROSS SECTIONS (SHEET 2 OF 5)			
		<small>AECOM TECHNICAL SERVICES, INC. 5444 WESTHEIMER RD, SUITE 200 HOUSTON, TEXAS 77056 WWW.AECOM.COM TBPE REG. NO. F-3580</small>	
Unit	PUBLIC WORKS	Scale:	1"=10 (H & V)
Designed	LNH	Checked	WRB
Drawn	JS	Approved	LNH
Date	APRIL 2015	Project No.	60073413
		Sheet	10 of 33

NOTES:

1. RIPRAP REMOVAL INVOLVES REMOVAL OF ALL EXISTING RIPRAP SHORE PROTECTION WITHIN THE PARK AREA UP TO THE BULKHEAD AND WITHIN THE AREA BETWEEN THE BOTTOM EDGE OF THE EXISTING BOAT RAMP (APPROXIMATE) AND THE BOTTOM EDGE OF THE PROPOSED BOAT RAMP. RIPRAP REMOVAL ASSUMES REMOVAL OF 18 INCHES OF EXISTING RIPRAP SHORE PROTECTION OVER THE ENTIRE AREA TO BE REMOVED.
2. CUT INVOLVES REMOVAL OF APPROXIMATELY 6 INCHES EXISTING SURFACE MATERIAL (INCLUDING GRASS, SOIL, GRAVEL, CONCRETE, ASPHALT, BASE, AND DEBRIS) AND MINIMUM 12 INCHES OF SURFICIAL SOILS BENEATH EXISTING SURFACE MATERIAL AND BENEATH EXISTING ROCK SHORE PROTECTION TO REMOVE EXISTING UNSUITABLE MATERIAL PRIOR TO PLACEMENT OF FILL SOIL IN AREAS WHERE PROPOSED PAVEMENT IS TO BE INSTALLED.

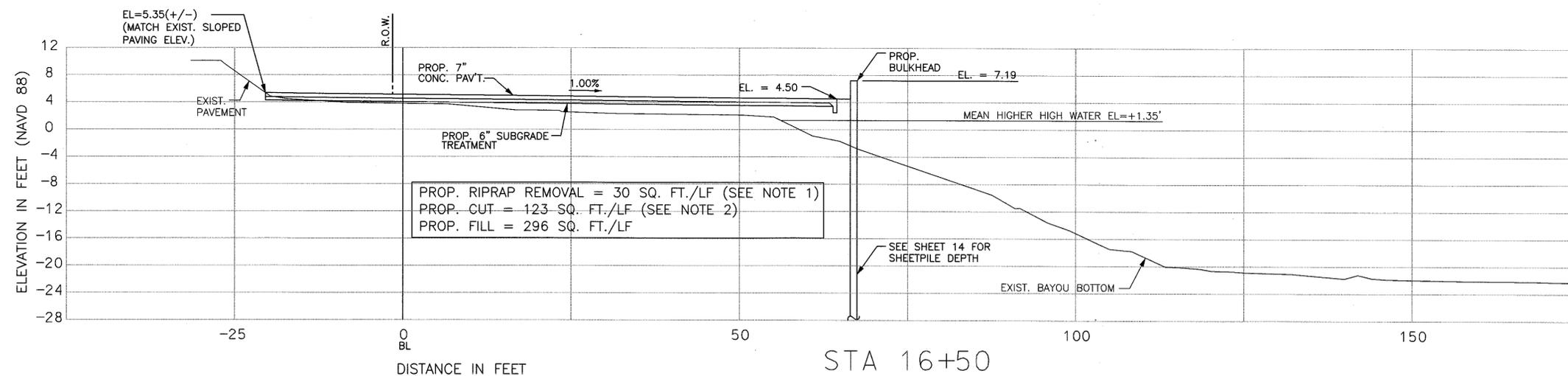
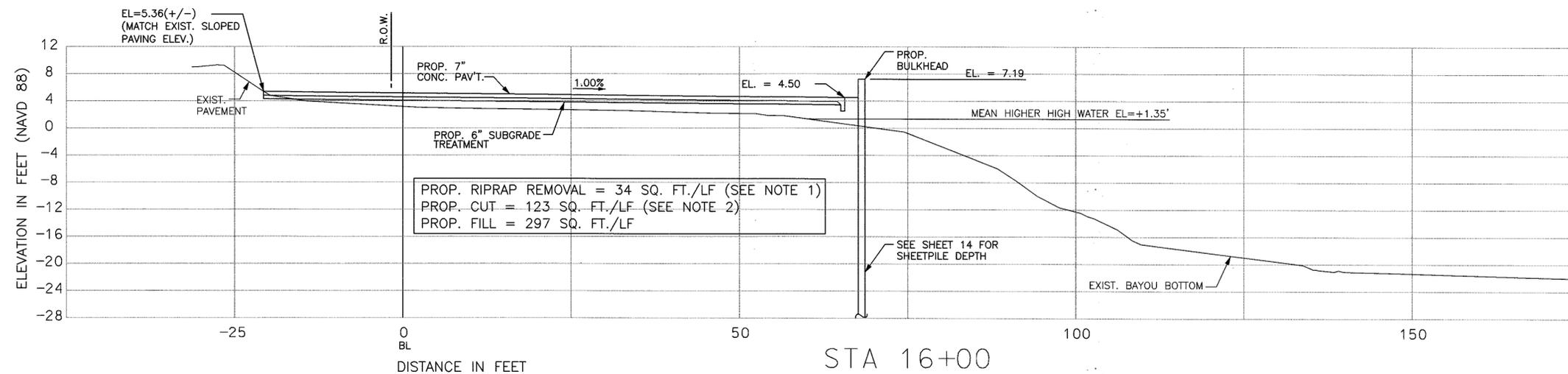
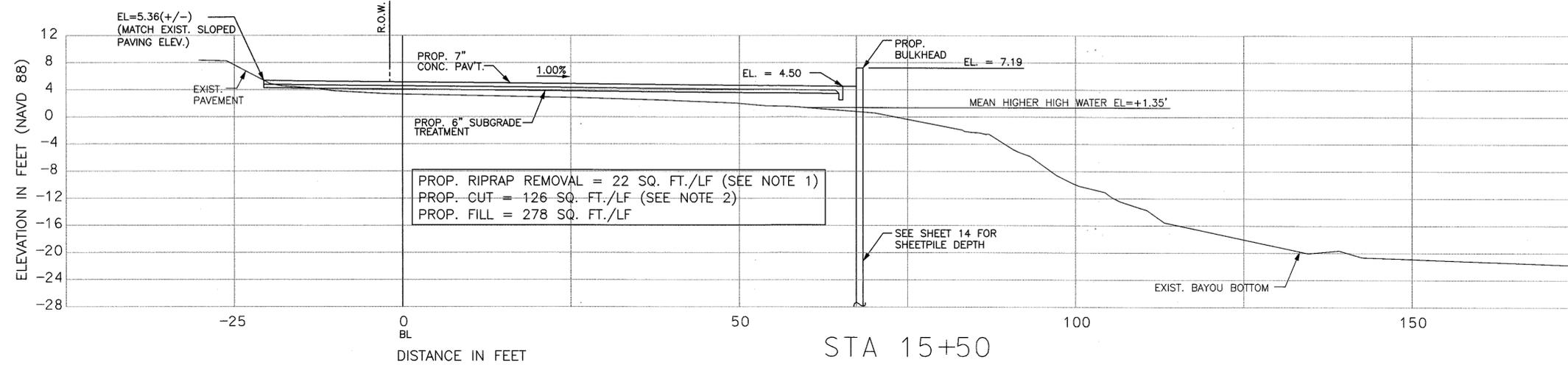


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NO.	DATE	REVISION	APPROV.
GALVESTON COUNTY 61ST STREET BOAT RAMP			
CROSS SECTIONS (SHEET 3 OF 5)			
AECOM		AECOM TECHNICAL SERVICES, INC. 5444 WESTHEIMER RD, SUITE 200 HOUSTON, TEXAS 77056 WWW.AECOM.COM TBPE REG. NO. F-3580	
Unit	PUBLIC WORKS	Scale:	1"=10 (H & V)
Designed	LNH	Checked	WRB
Drawn	JS	Approved	LNH
Date	APRIL 2015		Project No. 60073413
			Sheet 11 of 33

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NOTES:

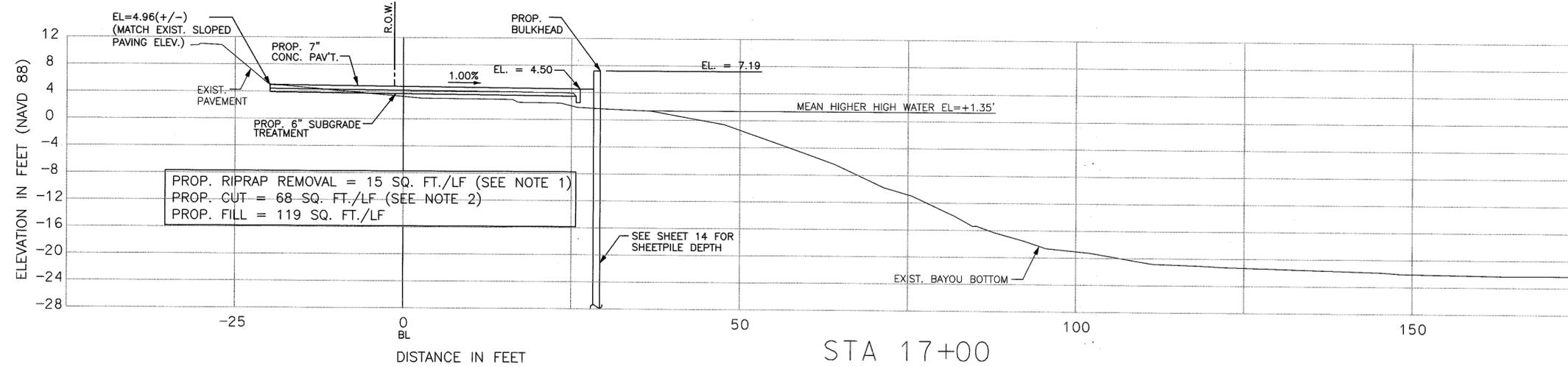
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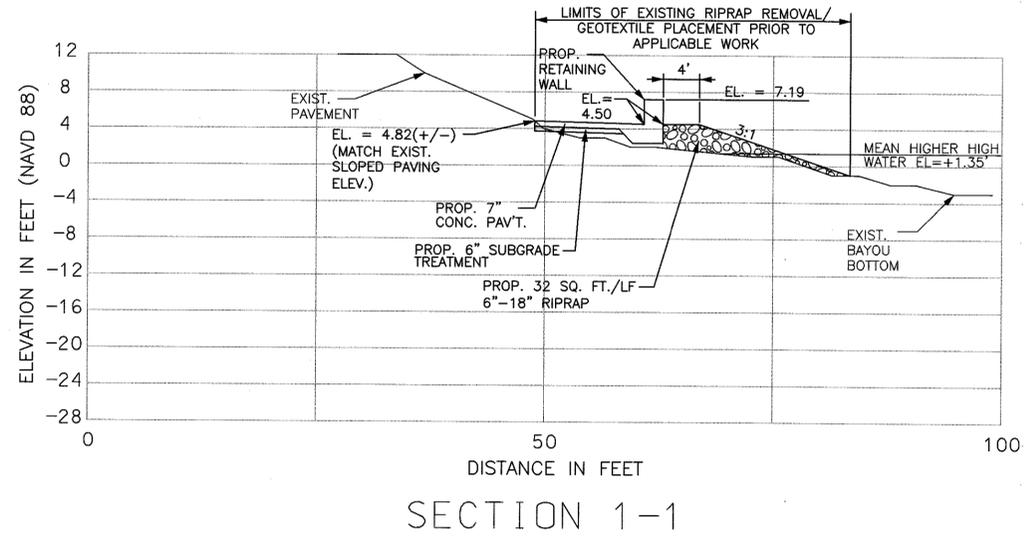
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NO.	DATE	REVISION	APPROV.
GALVESTON COUNTY 61ST STREET BOAT RAMP			
CROSS SECTIONS (SHEET 4 OF 5)			
		AECOM TECHNICAL SERVICES, INC. 5444 WESTHEIMER RD, SUITE 200 HOUSTON, TEXAS 77056 WWW.AECOM.COM TBPE REG. NO. F-3580	
Unit	PUBLIC WORKS	Scale:	1"=10 (H & V)
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Drawn	JS	Approved	LNH
Date	APRIL 2015	Project No.	60073413
		Sheet	12 of 33

NOTES:

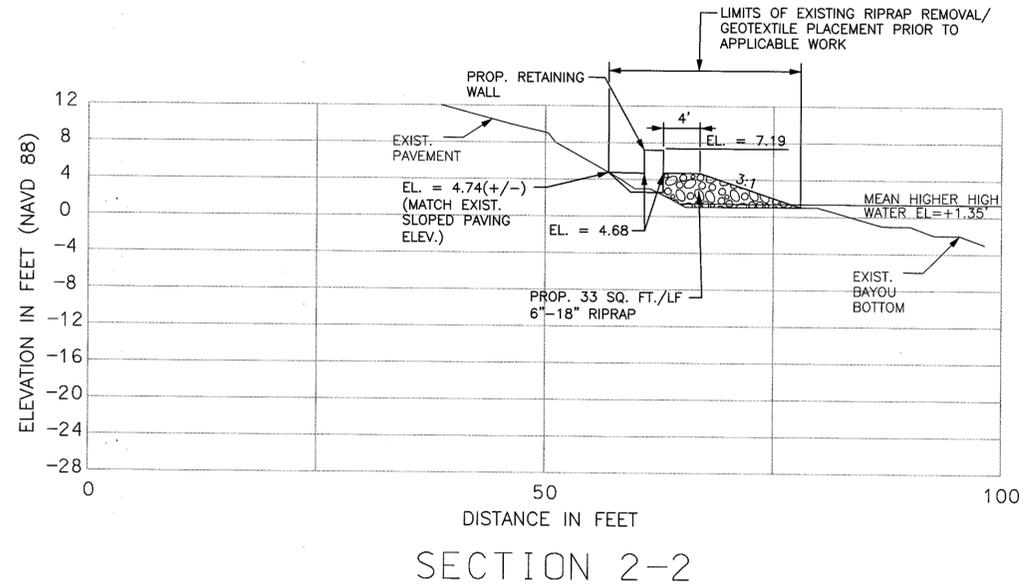
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PROP. RIPRAP REMOVAL = 15 SQ. FT./LF (SEE NOTE 1)
 PROP. CUT = 68 SQ. FT./LF (SEE NOTE 2)
 PROP. FILL = 119 SQ. FT./LF



SECTION 1-1



SECTION 2-2



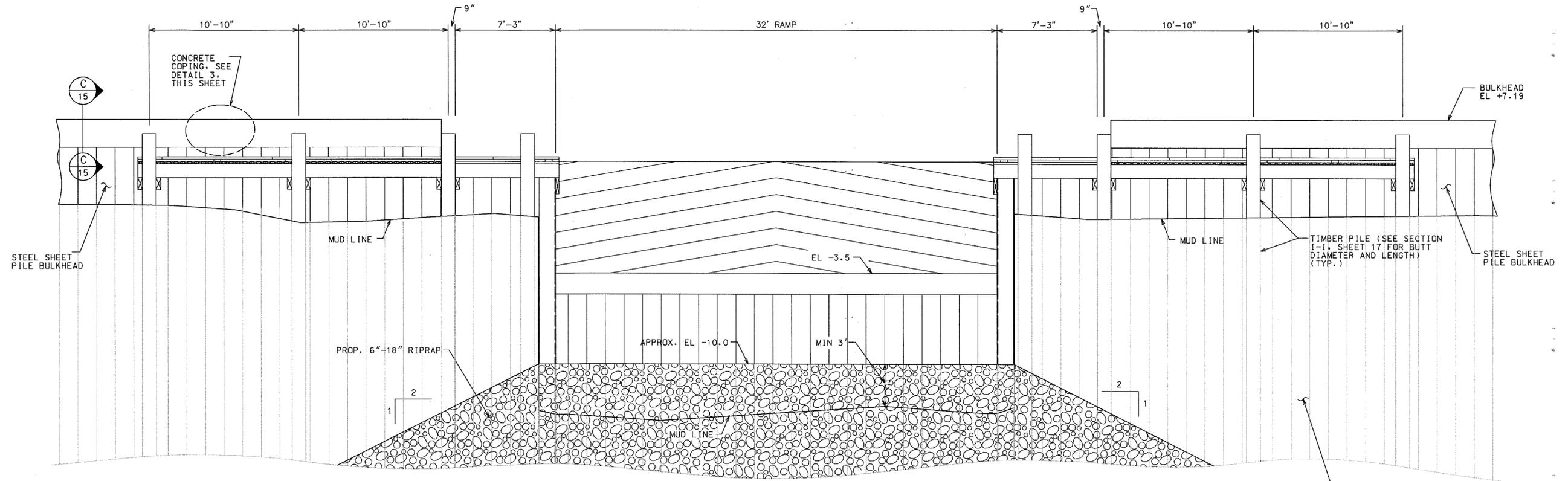
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GALVESTON COUNTY
 61ST STREET BOAT RAMP
 CROSS SECTIONS
 (SHEET 5 OF 5)

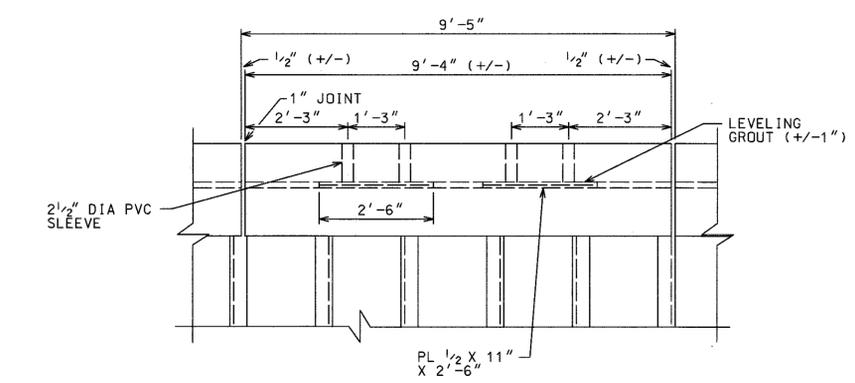
AECOM
 AECOM TECHNICAL SERVICES, INC.
 5444 WESTHEIMER RD, SUITE 200
 HOUSTON, TEXAS 77056
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Unit	PUBLIC WORKS	Scale:	1"=10 (H & V)	Date	APRIL 2015
Designed	LNH	Checked	WRB	Project No.	60073413
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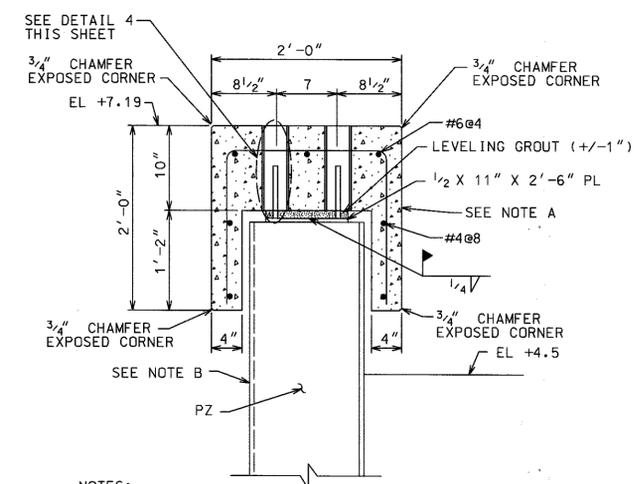
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FRONT VIEW
OF BOAT DOCK
SCALE: 1"=4'

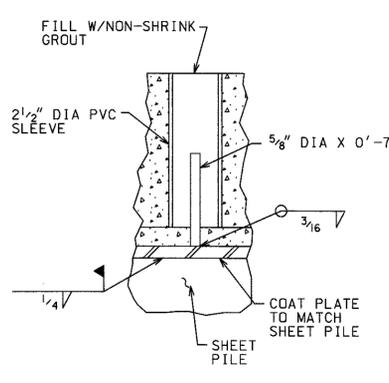


DETAIL 3
SCALE: 1"=2'



- NOTES:
- A) PROVIDE PRECAST CAPS IN 9'-5" LENGTHS (+/-). ADJUST AS REQUIRED TO FIT PILING DIMENSION. CONTRACTOR MAY SUBSTITUTE LONGER SECTION.
 - B) TOP 20 FEET OF SHEET PILE SHALL BE COATED WITH COAL TAR EPOXY. TOP 30 FEET OF SHEET PILE AT BOAT RAMP SHALL BE COATED WITH COAL TAR EPOXY. COAL TAR EPOXY COATING SHALL BE PRE-APPLIED TO SHEET PILE AND HAVE A MINIMUM THICKNESS OF 16 TO 20 MILS DFT (DRY FILM THICKNESS). ANY DAMAGE TO PRE-APPLIED EPOXY COATING ABOVE MUDLINE, AFTER INSTALLATION OF SHEET PILING, SHALL BE PRESSURE WATER BLASTED (MINIMUM 5,000 PSI) WITH AN ABRASIVE AND INHIBITOR INJECTION. DAMAGED AREAS SHALL THEN BE RECOATED WITH A MINIMUM 16 TO 20 MILS DFT OF COAL TAR EPOXY.
 - C) CONTRACTOR MAY SUBSTITUTE CAST-IN-PLACE CAP FOR PRECAST.

SECTION C-C
SCALE: 1"=1'

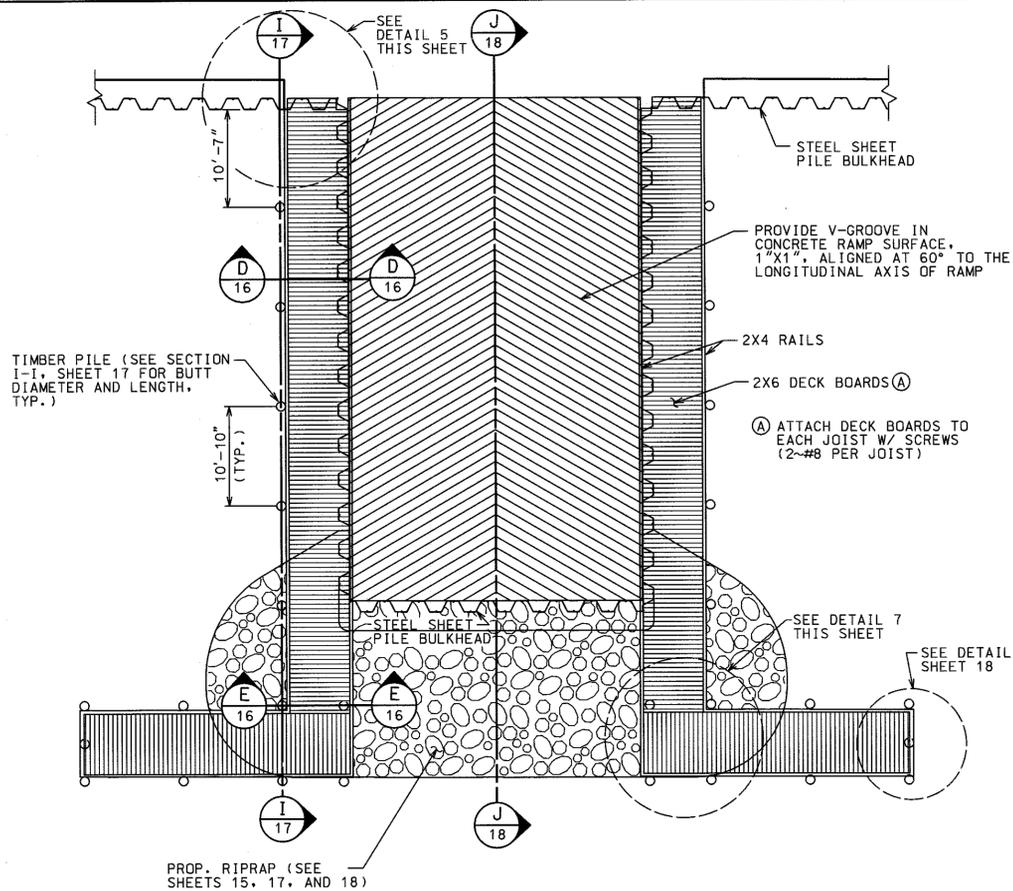


DETAIL 4
SCALE: 2X

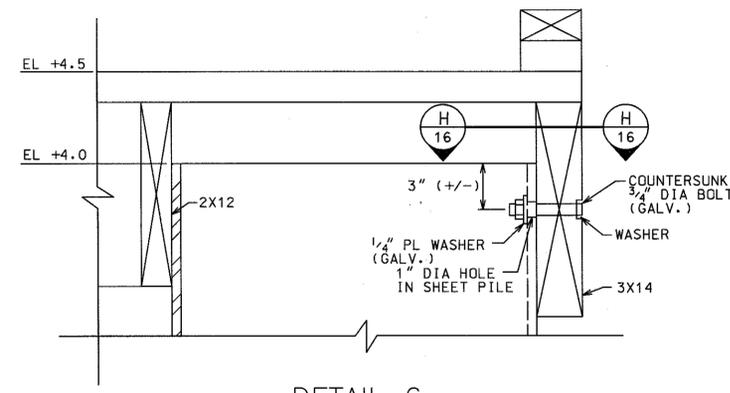
STATE OF TEXAS
WALLY R. BURNS
REGISTERED PROFESSIONAL ENGINEER
44162
Wally R. Burns 4/28/2015

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NO.	DATE	REVISION	APPROV.
GALVESTON COUNTY 61ST STREET BOAT RAMP BOAT RAMP/DOCK DETAILS (SHEET 1 OF 4)			
AECOM		AECOM TECHNICAL SERVICES, INC. 5444 WESTHEIMER RD, SUITE 200 HOUSTON, TEXAS 77056 WWW.AECOM.COM TBPE REG. NO. F-3580	
Unit	PUBLIC WORKS	Scale:	AS SHOWN
Designed	LNH	Checked	WRB & WB
Drawn	JS	Approved	LNH
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		Sheet	15 of 33

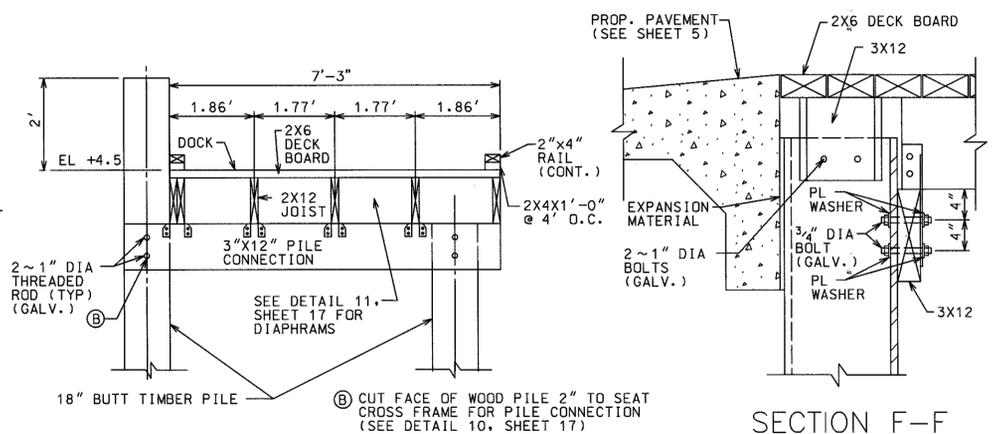
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PLAN VIEW OF BOAT DOCK
SCALE: 1"=10'

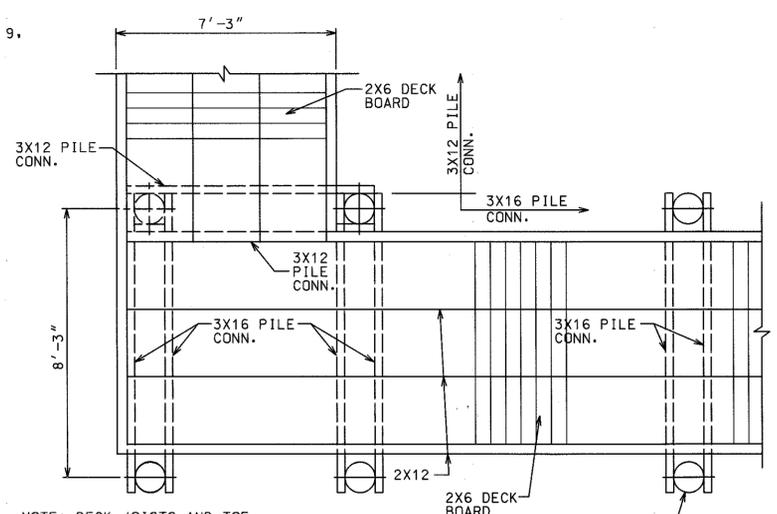


DETAIL 6
SCALE: 1/2"=1'



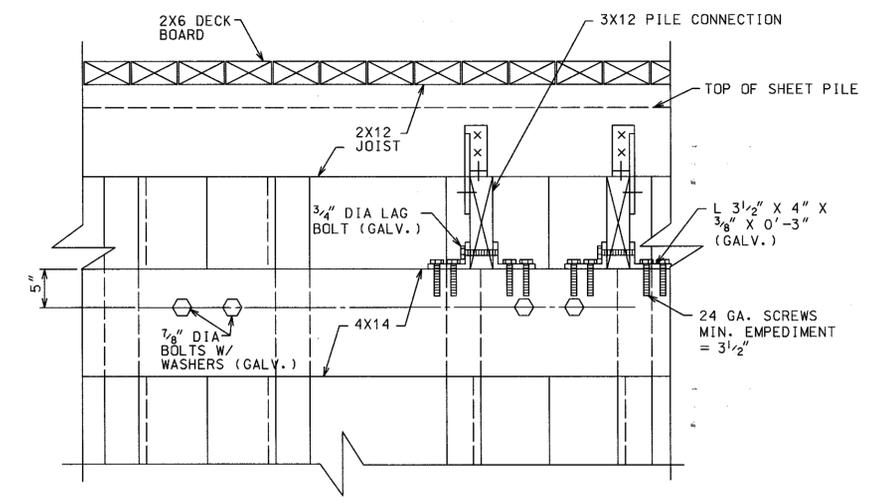
SECTION E-E
SCALE: 1"=2'

SECTION F-F
SCALE: 1"=1'

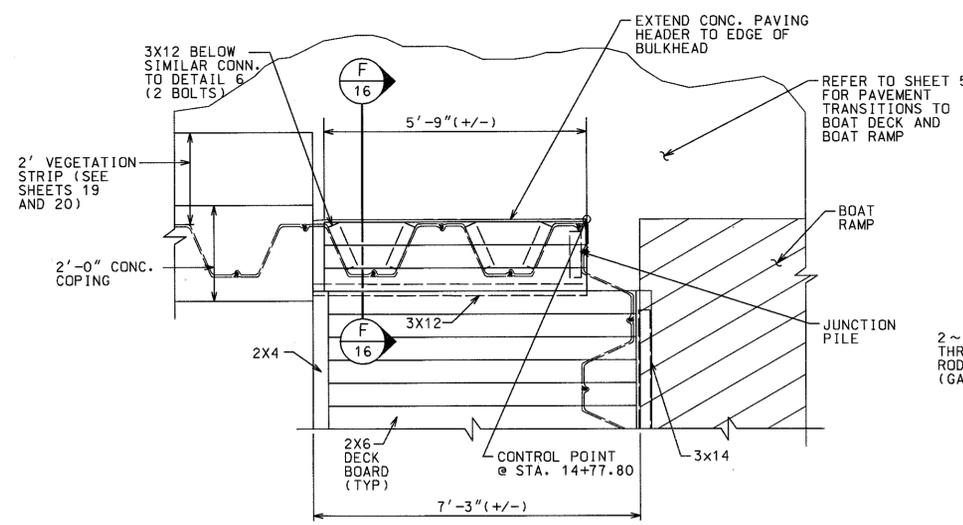


NOTE: DECK JOISTS AND TOE BOARDS ARE SHOWN PARTIAL FOR CLARITY.

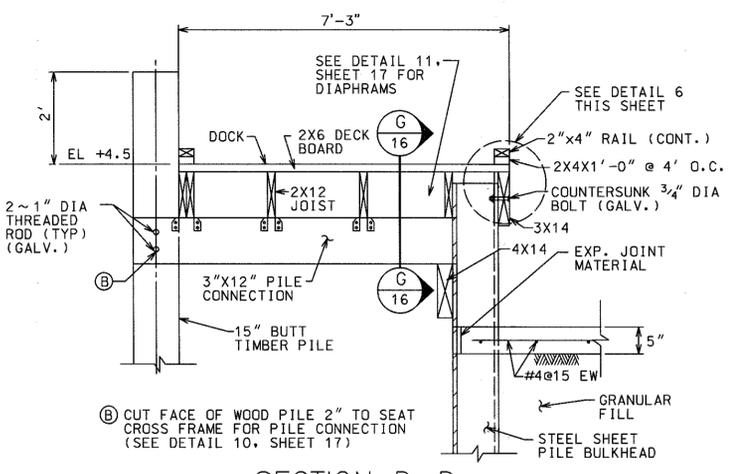
DETAIL 7
SCALE: 1"=3'



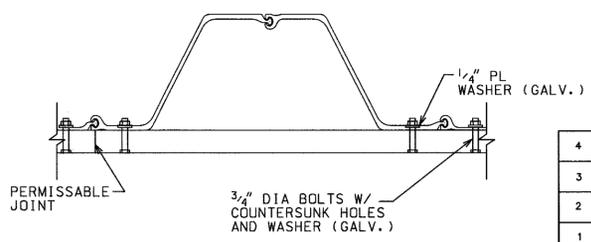
SECTION G-G
SCALE: 1"=1"



DETAIL 5
SCALE: 1"=2'



SECTION D-D
SCALE: 1"=2'



SECTION H-H
SCALE: 1"=1"

WALLY R. BURNS
REGISTERED PROFESSIONAL ENGINEER
44162
4/28/2015

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NO.	DATE	REVISION	APPROV.

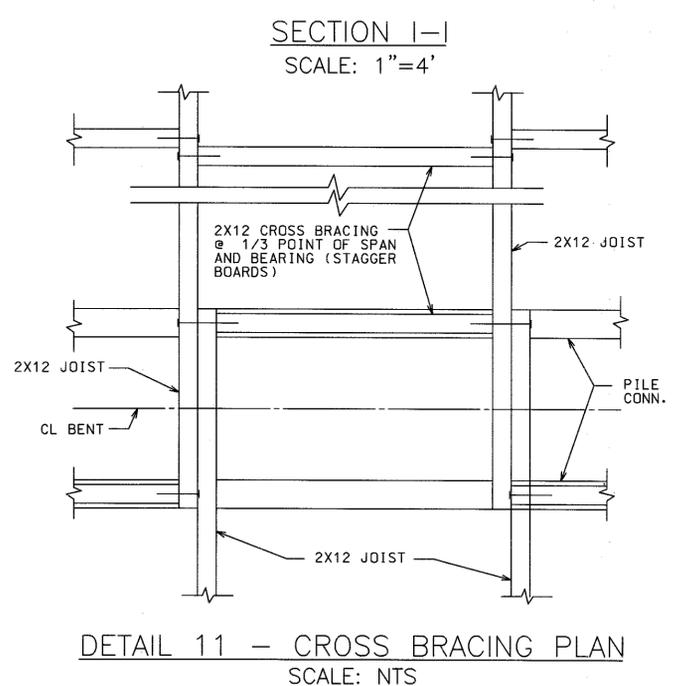
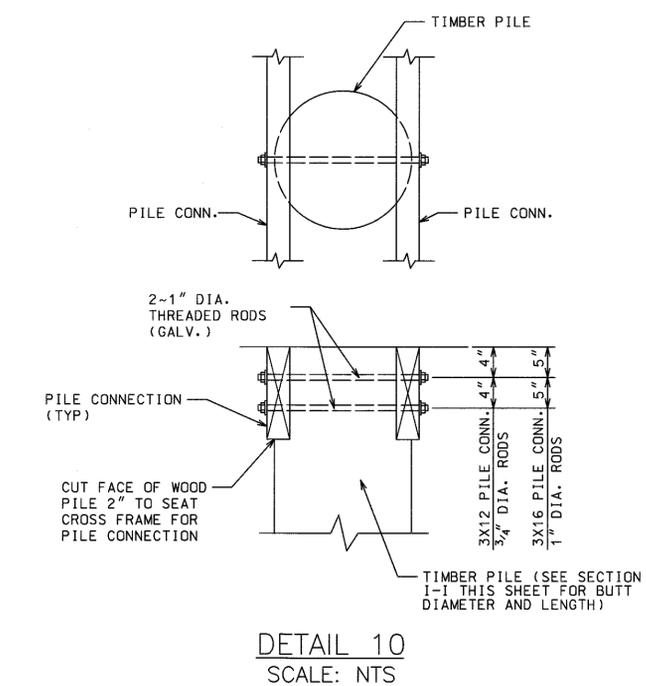
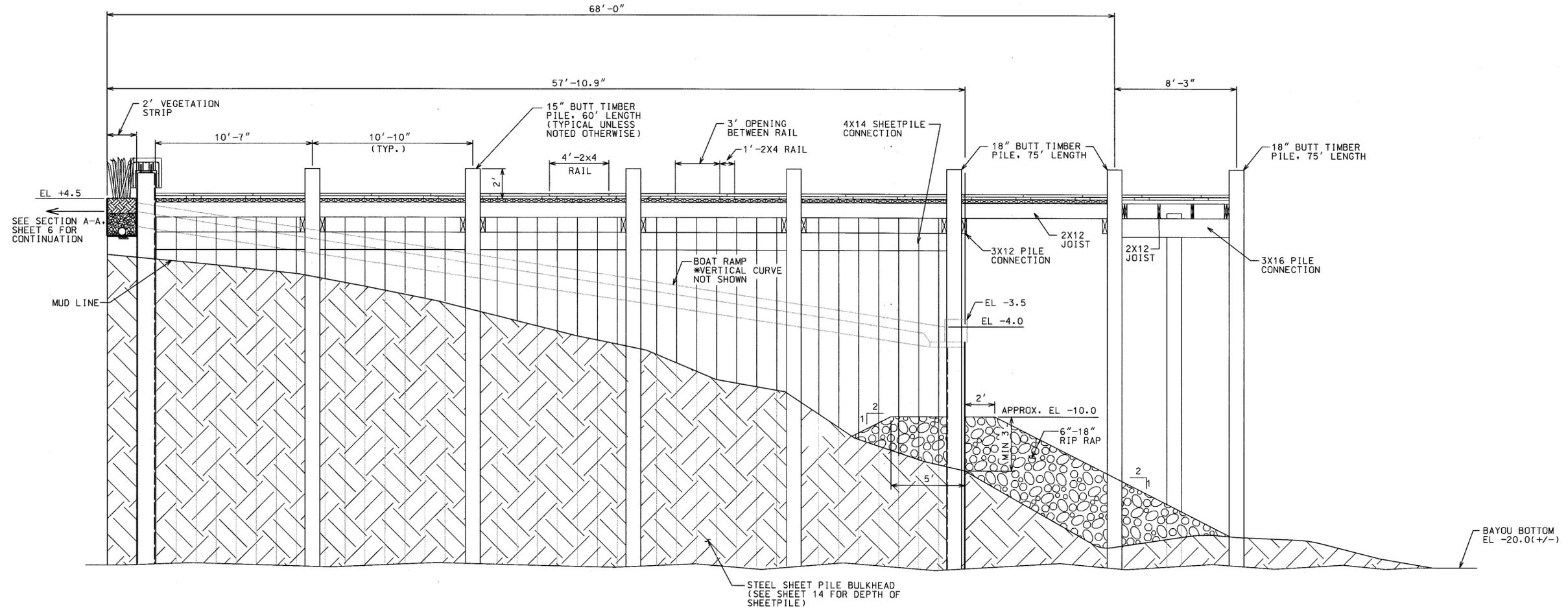
GALVESTON COUNTY
61ST STREET BOAT RAMP
BOAT RAMP/DOCK DETAILS
(SHEET 2 OF 4)



AECOM TECHNICAL SERVICES, INC.
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TBPE, REG. NO. F-3580

Unit	PUBLIC WORKS	Scale:	AS SHOWN	Date	APRIL 2015
Designed	LNH	Checked	WRB & WB	Project No.	60073413
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DATES & FILES

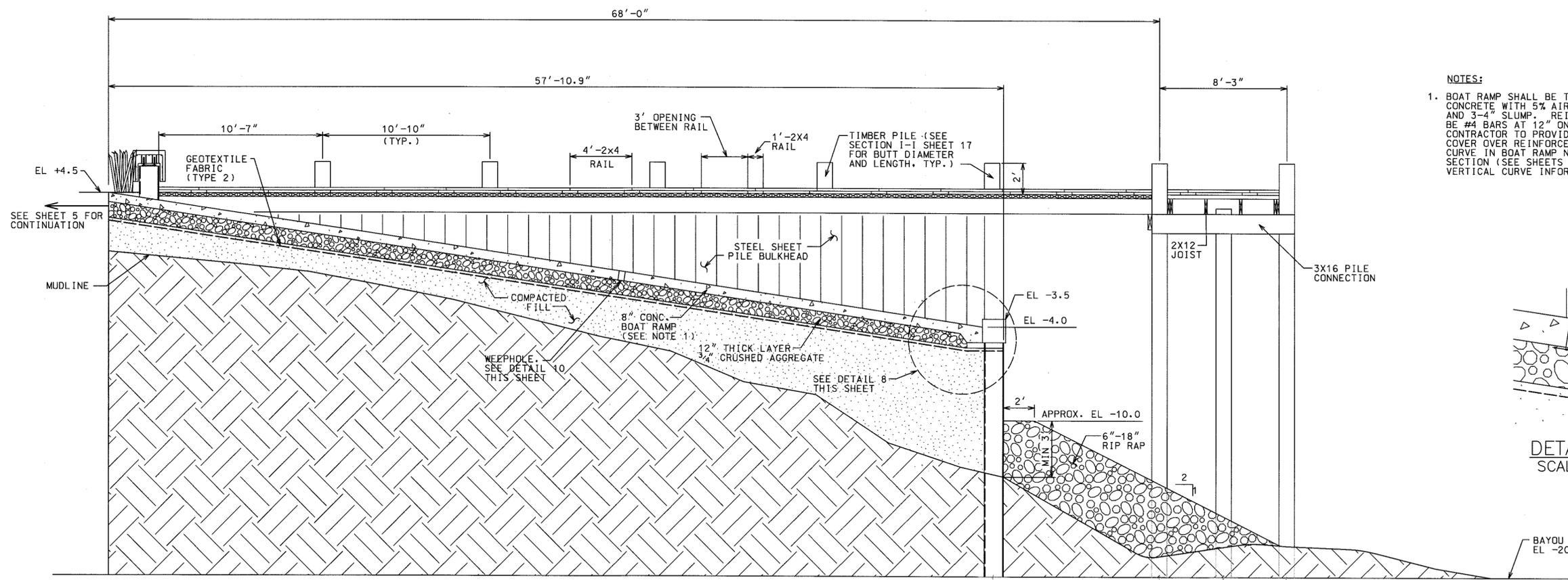


SECTION I-I
SCALE: 1"=4'

STATE OF TEXAS
WALLY R. BURNS
REGISTERED PROFESSIONAL ENGINEER
44162
Wally Burns 4/28/2015

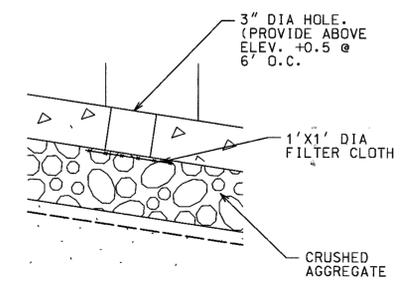
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NO.	DATE	REVISION	APPROV.
GALVESTON COUNTY 61ST STREET BOAT RAMP			
BOAT RAMP/DOCK DETAILS SHEET 3 OF 4			
		AECOM TECHNICAL SERVICES, INC. 5444 WESTHEIMER RD., SUITE 200 HOUSTON, TEXAS 77056 WWW.AECOM.COM TBPE REG. NO. F-3580	
Unit	PUBLIC WORKS	Scale:	AS SHOWN
Designed	LNH	Checked	WRB & WB
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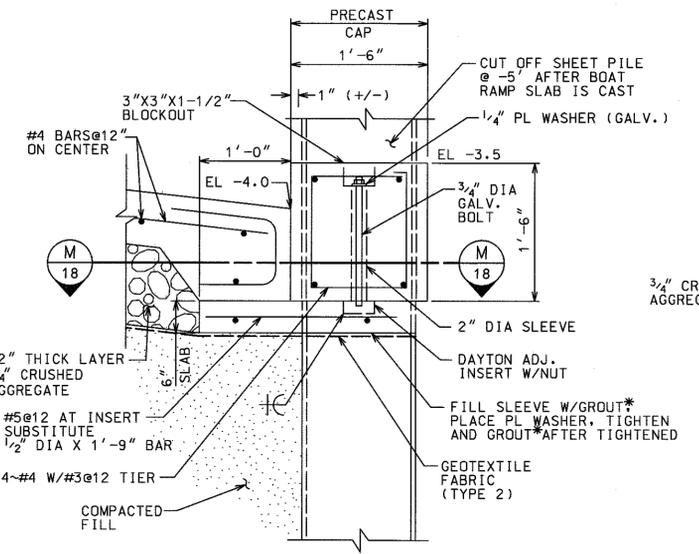
SECTION J-J
SCALE: 1"=4'

NOTES:
1. BOAT RAMP SHALL BE TYPE II, 4,000 PSI CONCRETE WITH 5% AIR ENTRAINMENT AND 3-4" SLUMP. REINFORCEMENT SHALL BE #4 BARS AT 12" ON CENTER, BOTH WAYS. CONTRACTOR TO PROVIDE MINIMUM 3" COVER OVER REINFORCEMENT. VERTICAL CURVE IN BOAT RAMP NOT SHOWN IN SECTION (SEE SHEETS 5 AND 11 FOR VERTICAL CURVE INFORMATION).



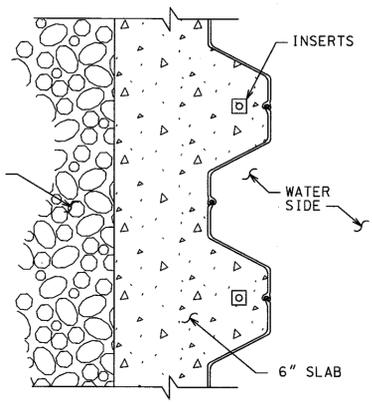
DETAIL 10
SCALE: NTS

BAYOU BOTTOM
EL -20.0(+/-)

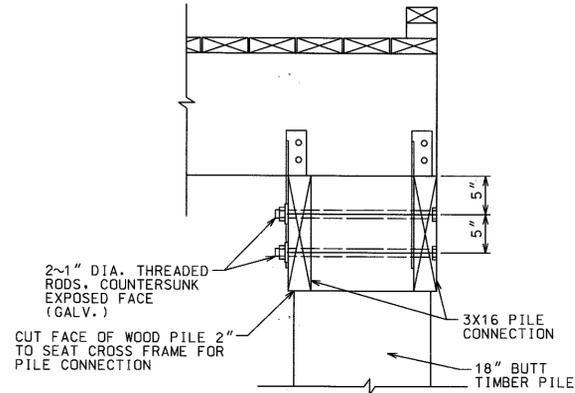


DETAIL 8
SCALE: 1"=1'

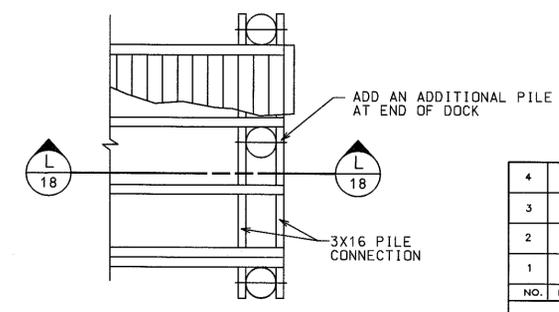
*EPOXY GEL GROUT BY CROWN PRO UNDERWATER PASTE #125 OR EQUAL



SECTION M-M
SCALE: NTS



SECTION L-L
SCALE: 1"=1'



DETAIL 9
SCALE: 1"=3'



Wally R. Burns 4/27/2015

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NO.	DATE	REVISION	APPROV.

GALVESTON COUNTY
61ST STREET BOAT RAMP
BOAT RAMP/DOCK DETAILS
(SHEET 4 OF 4)

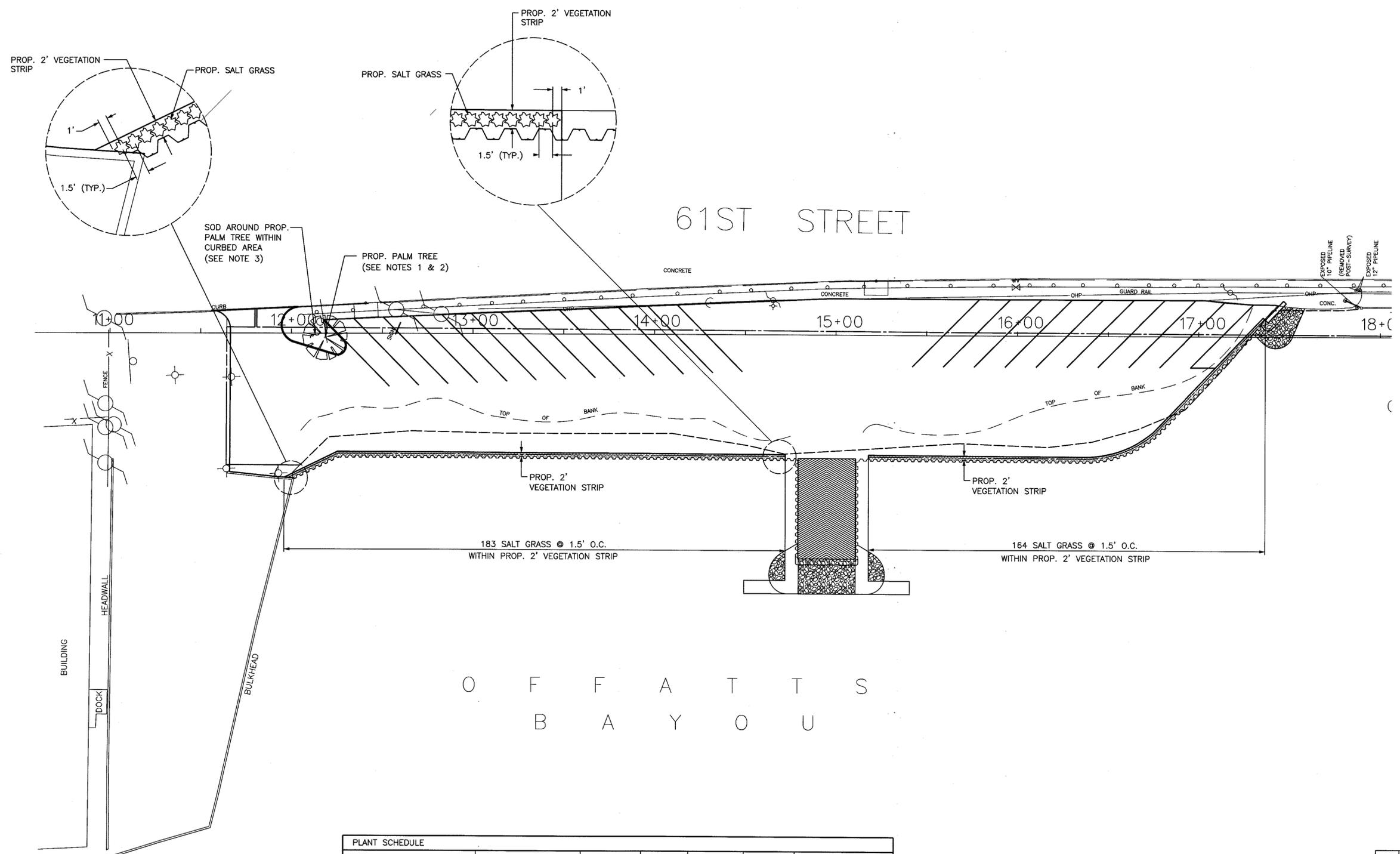
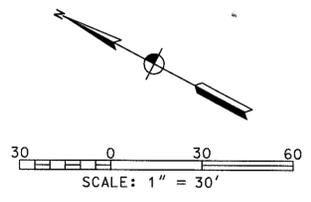


AECOM TECHNICAL SERVICES, INC.
5444 WESTHEIMER RD, SUITE 200
HOUSTON, TEXAS 77056
WWW.AECOM.COM
TBPE REG. NO. F-3580

Unit	PUBLIC WORKS	Scale:	AS SHOWN	Date	APRIL 2015
Designed	LNH	Checked	WRB & WB	Project No.	60073413
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STIMES

SEALES

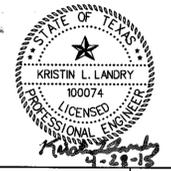


- NOTES:**
1. CONTRACTOR SHALL HAVE CERTIFIED ARBORIST IDENTIFY EXISTING PALM TREE SPECIES WITHIN WASHINGTON PARK. SAME SPECIES SHALL BE USED FOR PROPOSED PALM TREE AT 61ST STREET BOAT RAMP AREA.
 2. LOCATE PROPOSED PALM TREE A MINIMUM OF 3.5' FROM BACK OF PROPOSED CURB.
 3. CONTRACTOR SHALL PROVIDE SOD AS INDICATED UNLESS OTHERWISE DIRECTED BY OWNER.

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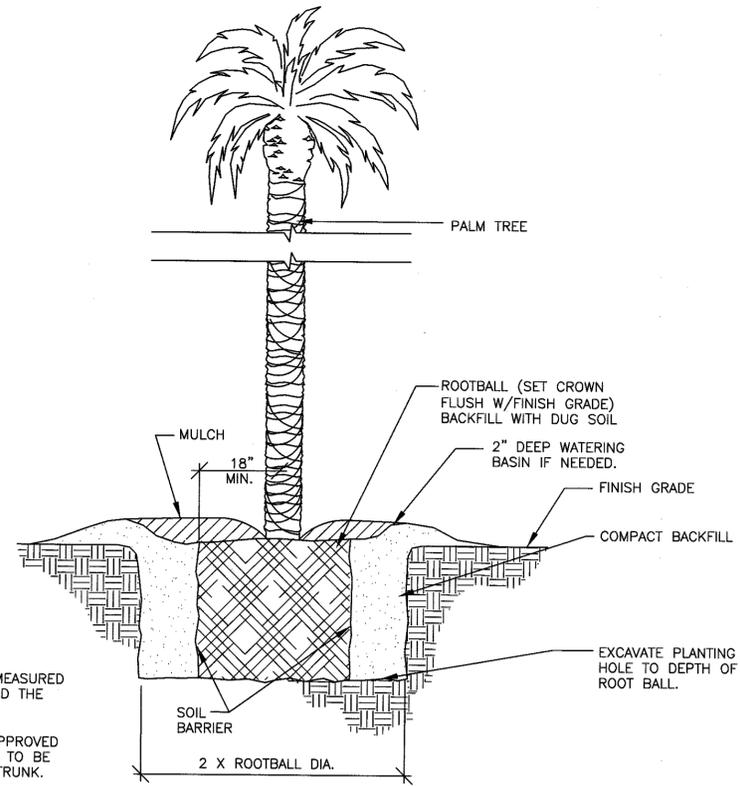
PLANT SCHEDULE						
SCIENTIFIC NAME	COMMON NAME	SIZE	CAL.	HEIGHT	SPR	REMARKS
<i>Distichlis spicata</i>	SALT GRASS	PLUGS	N/A	1.5'	N/A	PLUGS @ 1.5' O.C.
TBD by Arborist	PALM TREE	10' BTH	TBD	10' BTH	TBD	TBD
<i>Stenotaphrum secundatum</i>	ST. AUGUSTINE SOD	N/A	N/A	N/A	N/A	AREA AS INDICATED

BTH = BROWN TRUNK HEIGHT



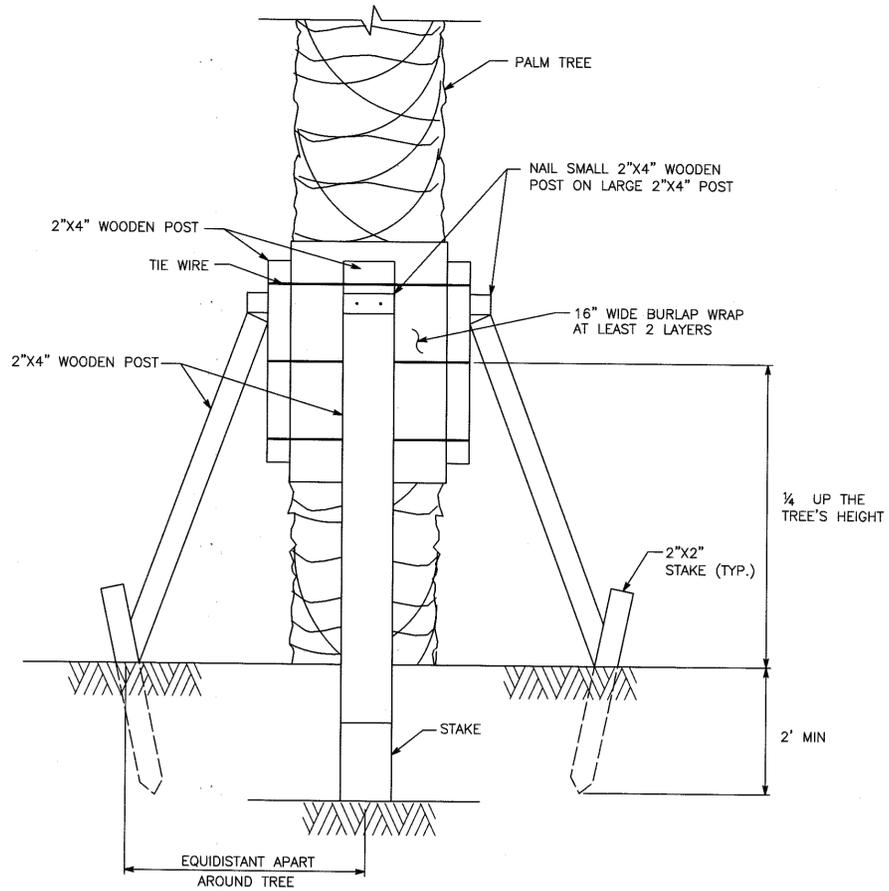
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NO.	DATE	REVISION	APPROV.
GALVESTON COUNTY 61ST STREET BOAT RAMP			
PLANTING PLAN			
		AECOM TECHNICAL SERVICES, INC. 5444 WESTHEIMER RD, SUITE 200 HOUSTON, TEXAS 77056 WWW.AECOM.COM TBPE REG. NO. F-3580	
Unit	PUBLIC WORKS	Scale:	1"=30'
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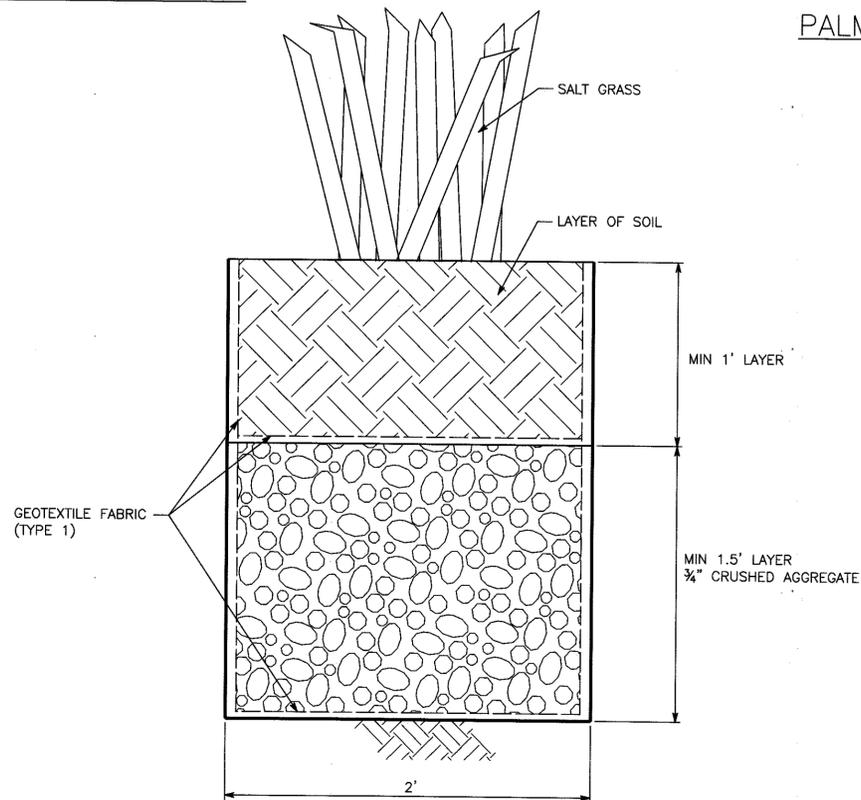
- NOTES:
- 1) PALM FRONDS TO BE TIED A MINIMUM OF 45 DAYS.
 - 2) PALM BROWN TRUNK TO BE MEASURED BETWEEN CROWN OF ROOTBALL AND THE BASE OF THE LOWEST FROND.
 - 3) PROVIDE 3-INCH LAYER OF APPROVED MULCH AT PLANT BASINS. MULCH TO BE 6-INCHES AWAY FROM THE TREE TRUNK.
 - 4) PLANTING INSTALLATION SHALL COMPLY WITH ALL APPLICABLE COUNTY STANDARDS.
 - 5) AMENDMENT PACKETS: 16-16-16 'NUTRIPAK', USE TWO PACKETS FOR EACH INCH OF TRUNK DIAMETER FOR TREES.

PALM PLANTING DETAIL - PLANTING AREA
SCALE: NTS



PALM STAKING DETAIL
SCALE: NTS

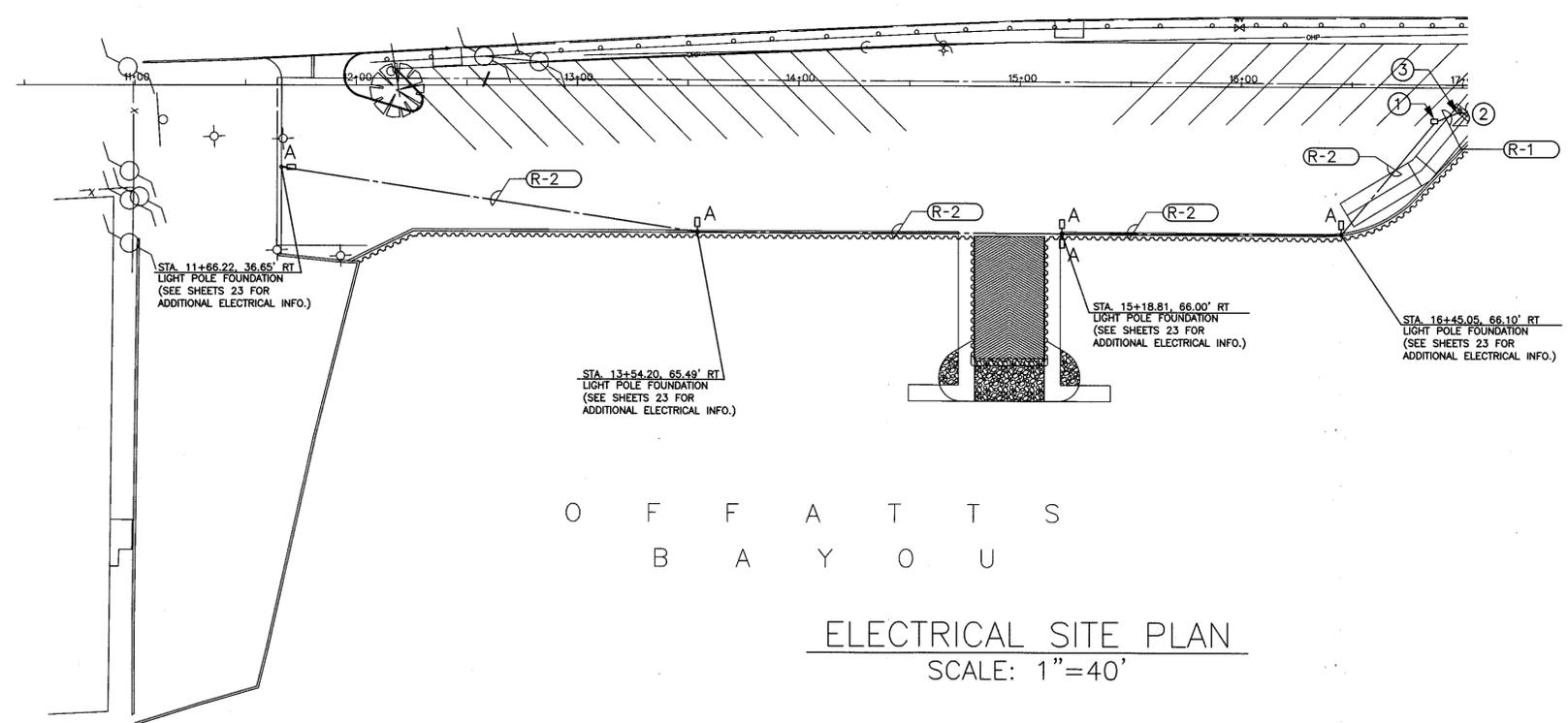
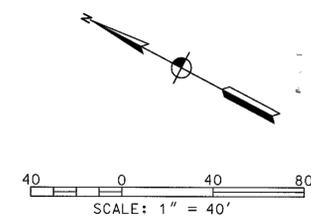
- NOTES:
- 1) BACKFILL AROUND PALM TREES SHALL BE NATIVE SOIL OR TOPSOIL.
 - 2) TOPSOIL FOR PLANTING WORK IS NOT AVAILABLE AT THE SITE AND MUST BE FURNISHED AS SPECIFIED. TOPSOIL SHALL BE A SANDY LOAM OR SANDY CLAY LOAM, LOOSE FRIABLE, NATURAL, SURFACE SOIL FREE OF SUBSOIL, CLAY LUMPS, BRUSH, WEEDS, PLANT ROOTS, STUMPS AND STONES OVER 1-1/2 INCHES IN ANY DIMENSION, AND ANY OTHER EXTRANEIOUS OR TOXIC MATTER HARMFUL TO PLANT GROWTH. ORGANIC CONTENT OF TOPSOIL SHALL BE NOT LESS THAN 5 PERCENT AND NOT GREATER THAN 20 PERCENT. CLAY CONTENT OF TOPSOIL SHALL RANGE BETWEEN 5 PERCENT AND 20 PERCENT.



VEGETATION STRIP DETAIL
SCALE: 1/2" = 1'



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PLANTING DETAILS			
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SHEET NOTES

- ① 24"x36"x36" IN GROUND PULL BOX.
- ② SEE BRIDGE PACKAGE FOR CONTINUATION
- ③ STUB UP CONDUIT AGAINST BENT. ROUTE CONDUIT UP TO BRIDGE DECK. INSTALL JUNCTION BOX FOR EMBEDDING CONDUIT IN BRIDGE DECK.

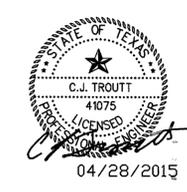
GENERAL NOTES

- 1. DIRECT BURY ALL UNDERGROUND CONDUIT 24" BELOW FINISHED GRADE.
- 2. SEE WASHINGTON PARK PACKAGE FOR PANEL SCHEDULE AND LIGHTING FIXTURE SCHEDULE.

ELECTRICAL SITE PLAN
SCALE: 1" = 40'

CONDUIT SCHEDULE

TAG	SIZE	CONDUCTORS	CIRCUIT
R-1	1"	2*8,*8GND	LA-1,3
	1"	SPARE	SPARE
R-2	1"	2*8,*8GND	LA-1,3



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1			
NO.	DATE	REVISION	APPROV.

**GALVESTON COUNTY
61ST STREET BOAT RAMP**

ELECTRICAL SITE PLAN



AECOM TECHNICAL SERVICES, INC.
5444 WESTHEIMER RD., SUITE 200
HOUSTON, TEXAS 77056
WWW.AECOM.COM
TBPE REG. NO. F-3580

Unit	PUBLIC WORKS	Scale:	AS SHOWN	Date	APRIL 2015
Designed	LNH	Checked	WRB	Project No.	60073413
Drawn	JS	Approved	LNH	Sheet	21 of 33

SDATES \$FILES\$

CLEAN SURFACE OF FIRST POUR OF ALL FOREIGN MATTER AND DAMPEN SURFACE. APPLY SUPERIOR CONCRETE BONDER AS PER MANUFACTURER'S RECOMMENDATIONS. SET ANCHOR BOLTS IN TEMPLATE AND MAKE SECOND POUR. DO NOT MAKE POUR BELOW 45 DEGREES F.

18" ROUND SEAMLESS SONOTUBE FORM PUT IN PLACE BEFORE FIRST POUR.

2" GROUT AFTER SETTING POLE PLUMB

CONCRETE FOUNDATION

ANCHOR BOLTS FURNISHED AND SET AS PER POLE MANUFACTURER SPEC'S

4 #7 VERTICAL AND #3 TIES AT 12" O/C

PVC-COATED RIGID ALUMINUM CONDUIT

CONCRETE TO BE POURED TO THIS LEVEL UNTIL CONDUITS ARE INSTALLED.

4 ADDITIONAL #7 REBARS 4 FT. LONG ACROSS BREAK IN POUR

GROUND WIRE TO LIGHTING FIXTURE
GROUNDING LUG TO POLE
HAND HOLE COVER (IF SUPPLIED)
INSULATED GROUNDING BUSHING OZ TYPE "IGB"
BASE COVER

3/4" X 10" COPPER CLAD GROUND ROD W/ #6 GROUND WIRE

2'-0" MIN

6"

3"

2'-6"

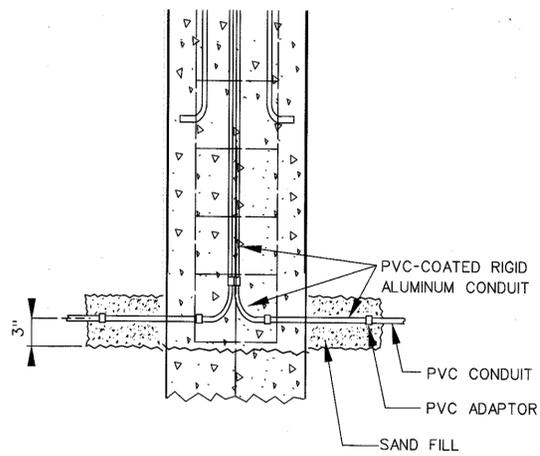
8'-0"

18" DIA.

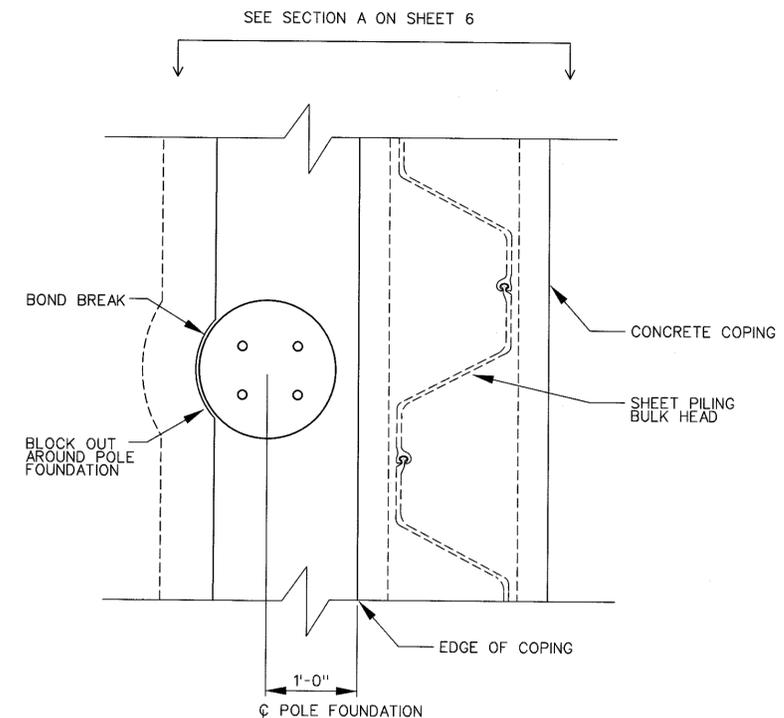
SECT. A

1 POLE FOUNDATION DETAIL

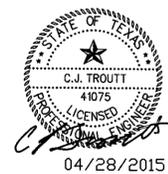
SCALE: NTS



SECT. A



PLAN VIEW



4			
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1			
NO.	DATE	REVISION	APPROV.

GALVESTON COUNTY
61ST STREET BOAT RAMP

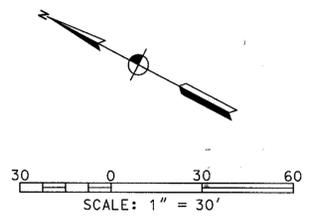
ELECTRICAL DETAILS



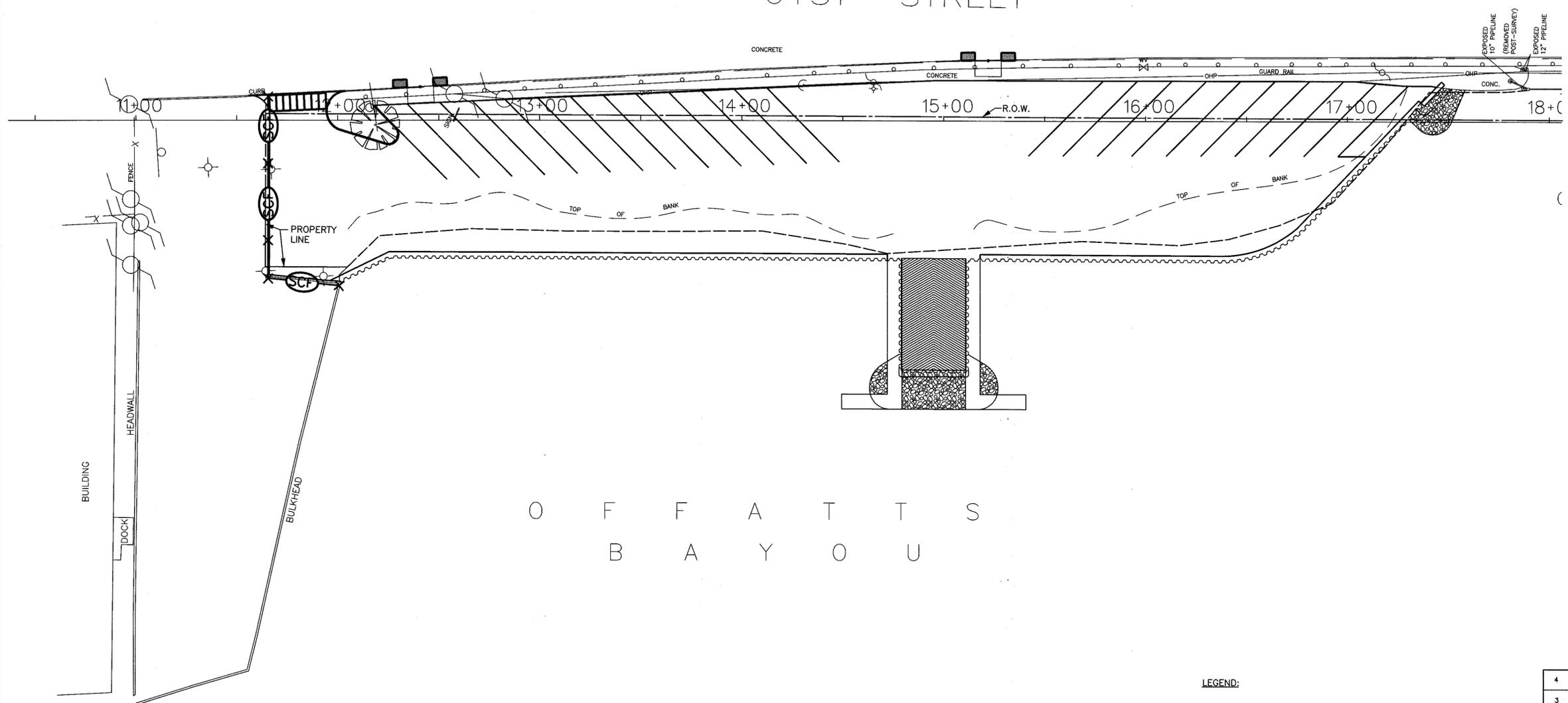
AECOM TECHNICAL SERVICES, INC.
5444 WESTHEIMER RD, SUITE 200
HOUSTON, TEXAS 77056
WWW.AECOM.COM
TBPE REG. NO. F-3580

Unit	PUBLIC WORKS	Scale:	AS SHOWN	Date	APRIL 2015
Designed	LNH	Checked	WRB	Project No.	60073413
Drawn	JS	Approved	LNH	Sheet	22 of 33

STIMES
\$FILES



61ST STREET



O F F A T T S
B A Y O U

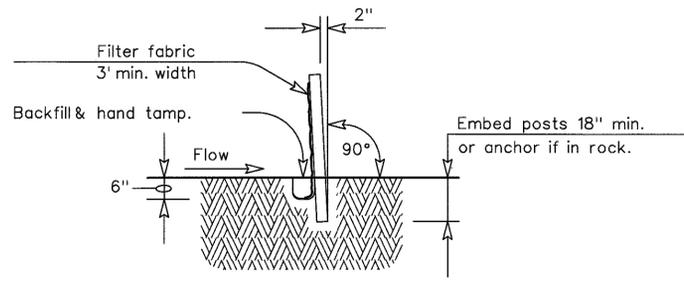
- NOTES:**
1. PRIOR TO START OF CONSTRUCTION CONTRACTOR SHALL INSTALL POLLUTION PREVENTION SYSTEMS AT LOCATION SHOWN ON PLANS.
 2. CONTRACTOR SHALL MAINTAIN, REPAIR AND/OR REPLACE DAMAGED EROSION AND SEDIMENTATION CONTROL SYSTEMS THROUGHOUT THE DURATION OF THE CONTRACT.
 3. CONTRACTOR SHALL PROVIDE PROTECTED STORAGE AREAS FOR CHEMICALS, PAINTS, SOLVENTS, FERTILIZERS AND OTHER POTENTIALLY TOXIC MATERIALS.
 4. CONTRACTOR SHALL LOCATE FUEL/MATERIAL STORAGE AREAS AWAY FROM STORM WATER CONVEYANCE SYSTEMS. CONTRACTOR SHALL USE A LINER UNDER ABOVE GROUND STORAGE TANKS. CONTRACTOR SHALL USE FILTER FABRIC FENCING, HAY BALES, OR BERMS AROUND FUEL STORAGE AREAS.
 5. CONTRACTOR SHALL ADVISE OWNER IMMEDIATELY, VERBALLY, AND IN WRITING, OF ANY FUEL OR TOXIC MATERIAL SPILLS ONTO THE PROJECT CONSTRUCTION AREA AND THE ACTIONS TAKEN TO REMEDY THE PROBLEM.
 6. CONTRACTOR IS RESPONSIBLE FOR DISPOSING OF HIS FUELS, MATERIALS, AND CONTAMINATED EXCAVATIONS IN A LEGALLY APPROVED MANNER.
 7. CONTRACTOR IS RESPONSIBLE FOR COMPLYING WITH ALL APPLICABLE ENVIRONMENTAL LAWS.
 8. CONTRACTOR IS RESPONSIBLE FOR PROVIDING ADEQUATE MAINTAINED SANITARY FACILITIES.
 9. CONTRACTOR SHALL BE RESPONSIBLE FOR STREET CLEANING, ON A DAILY BASIS, ALL MUD AND DIRT DEPOSITED ON THE EXISTING PAVEMENT DUE TO HIS CONSTRUCTION ACTIVITY.
 10. CONTRACTOR SHALL PROVIDE A STABILIZED CONSTRUCTION EXIT.
 11. SEDIMENT WILL BE REMOVED FROM BEHIND THE FILTER FABRIC FENCE WHEN IT BECOMES ABOUT ONE-THIRD OF THE HEIGHT OF THE FENCE.

- LEGEND:**
- STABILIZED CONSTRUCTION EXIT
 - SEDIMENT CONTROL FENCE
 - SANDBAGS (USE SANDBAGS ON INLETS ALONG 61st STREET ADJACENT TO PROJECT AND DOWNSTREAM OF PROJECT)



4			
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1			
NO.	DATE	REVISION	APPROV.
GALVESTON COUNTY 61ST STREET BOAT RAMP			
STORM WATER POLLUTION PREVENTION PLAN			
AECOM		AECOM TECHNICAL SERVICES, INC. 5444 WESTHEIMER RD, SUITE 200 HOUSTON, TEXAS 77056 WWW.AECOM.COM TBPE REG. NO. F-3580	
Unit	PUBLIC WORKS	Scale: 1"=30'	Date: APRIL 2015
Designed	LNH	Checked	WRB Project No. 60073413
Drawn	JS	Approved	LNH Sheet 24 of 33

SDATES \$ FILES



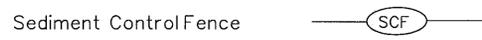
SECTION A-A

SEDIMENT CONTROL FENCE USAGE GUIDELINES

A sediment control fence may be constructed near the downstream perimeter of a disturbed area along a contour to intercept sediment from overland runoff. A 2 year storm frequency may be used to calculate the flow rate to be filtered.

Sediment control fence should be sized to filter a max. flow through rate of 100 GPM/FT. Sediment control fence is not recommended to control erosion from a drainage area larger than 2 acres.

PLAN SHEET LEGEND

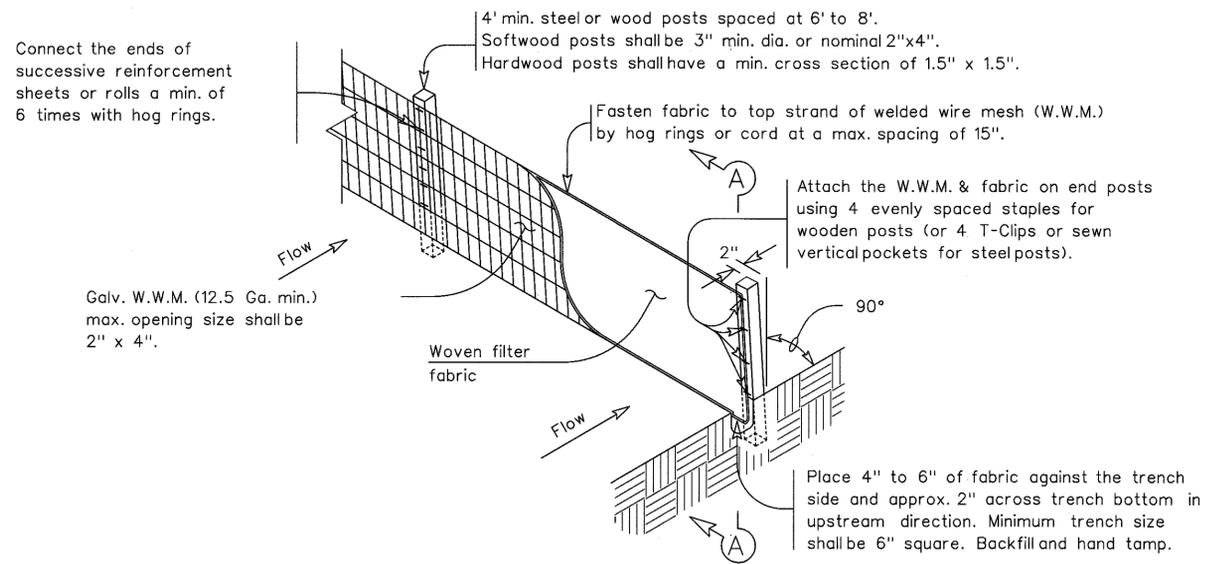


GENERAL NOTES

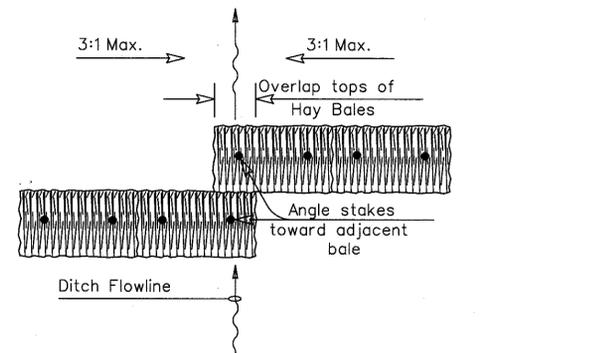
- The guidelines shown hereon are suggestions only and may be modified by the Engineer.

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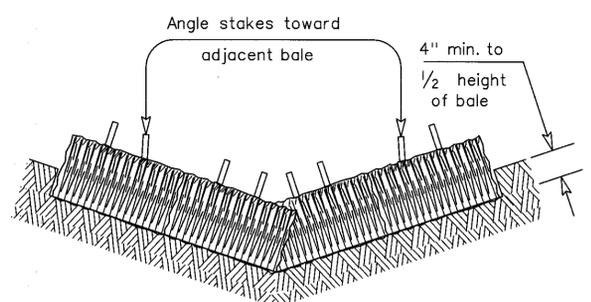
LEVELS DISPLAYED	1
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TEMPORARY SEDIMENT CONTROL FENCE



PLAN VIEW



PROFILE VIEW

PLANS SHEET LEGEND



BALED HAY USAGE GUIDELINES

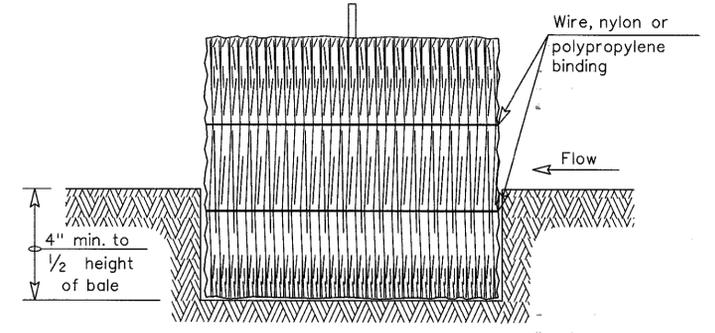
A Baled Hay installation may be constructed near the downstream perimeter of a disturbed area along a contour to intercept sediment from overland runoff. A two year storm frequency may be used to calculate the flow rate to be filtered. The installation should be sized to filter a maximum flow thru rate of 5 GPM/FT² of cross sectional area. Baled hay may be used at the following locations:

- Where the runoff approaching the baled hay flows over disturbed soil for less than 100'. If the slope of the disturbed soil exceeds 10%, the length of slope upstream the baled hay should be less than 50'.
- Where the installation will be required for less than 3 months.
- Where the contributing drainage area is less than 1/2 acre.

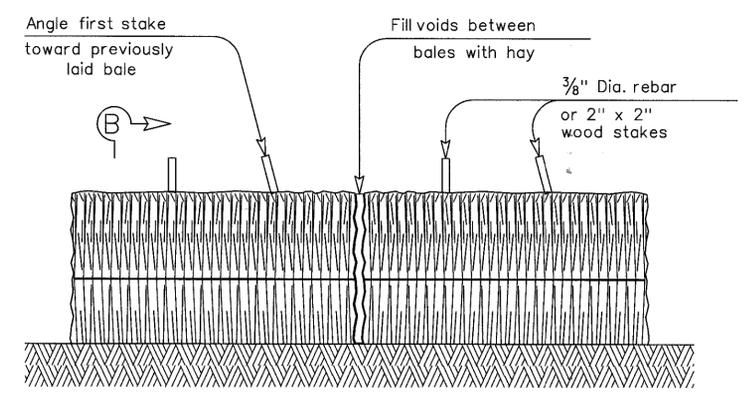
For Baled Hay installations in small ditches, the additional following considerations apply:

- The ditch sideslopes should be graded as flat as possible to maximize the drainage flowrate thru the hay.
- The ditch should be graded large enough to contain the overtopping drainage when sediment has filled to the top of the baled hay.

Bales should be replaced usually every 2 months or more often during wet weather when loss of structural integrity is accelerated.



SECTION B-B



BALED HAY FOR EROSION CONTROL



GENERAL NOTES

- Hay bales shall be a minimum of 30" in length and weigh a minimum of 50 Lbs.
- Hay bales shall be bound by either wire or nylon or polypropylene string. The bales shall be composed entirely of vegetative matter.
- Hay bales shall be embedded in the soil a minimum of 4" and where possible 1/2 the height of the bale.
- Hay bales shall be placed in a row with ends tightly abutting the adjacent bales. The bales shall be placed with bindings parallel to the ground.
- Hay bales shall be securely anchored in place with 3/8" Dia. rebar or 2" x 2" wood stakes, driven through the bales. The first stake shall be angled towards the previously laid bale to force the bales together.
- The guidelines shown hereon are suggestions only and may be modified by the Engineer.

Texas Department of Transportation
Design Division (Roadway)

TEMPORARY EROSION,
SEDIMENT AND WATER
POLLUTION CONTROL MEASURES

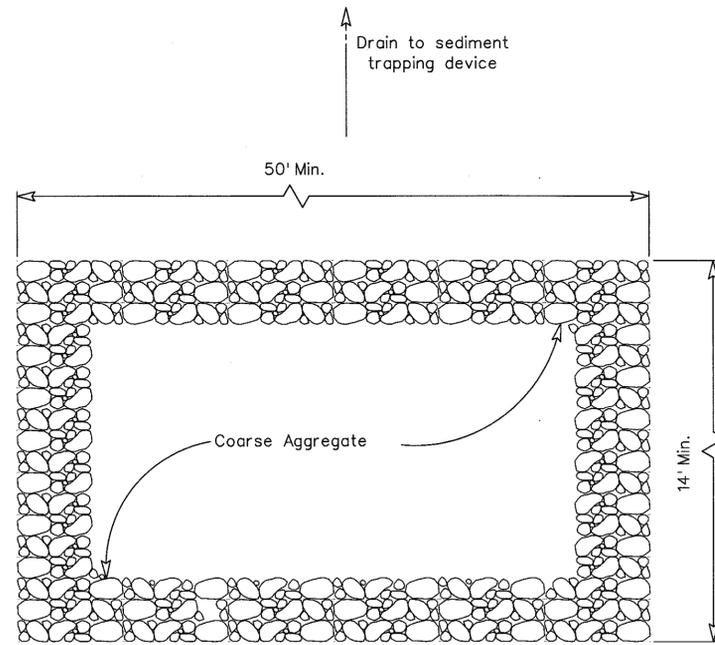
FENCE & BALED HAY

EC(1)-93

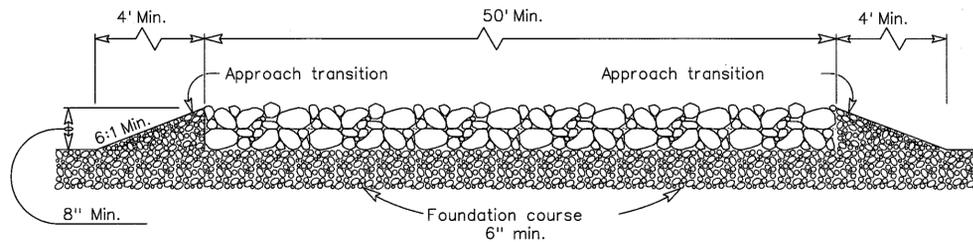
FILE: EC193.DGN	DN: HEJ	CK: HEJ	DW: BGD	CK:
© TxDOT JUNE 1993	DISTRICT	FEDERAL AID PROJECT		SHEET
REVISIONS				
	COUNTY	CONTROL SECT	JOB	HIGHWAY

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LEVELS DISPLAYED	
1	



PLAN

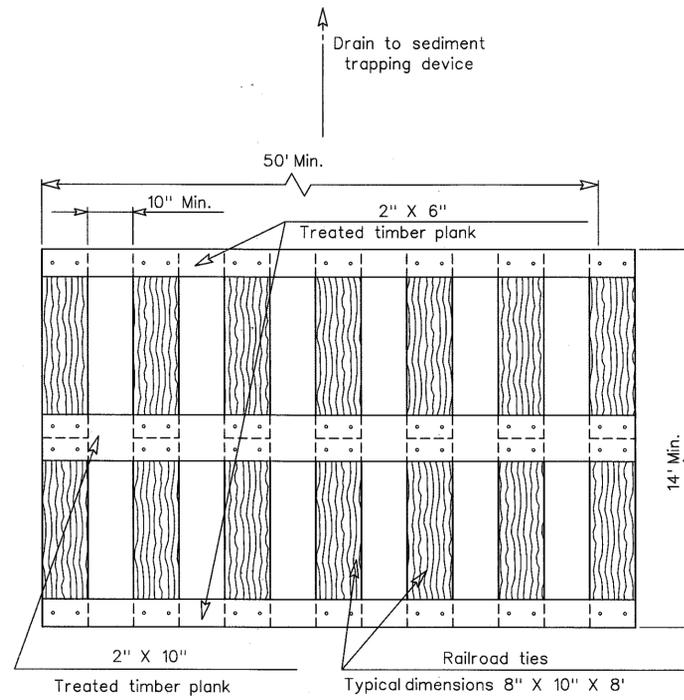


PROFILE

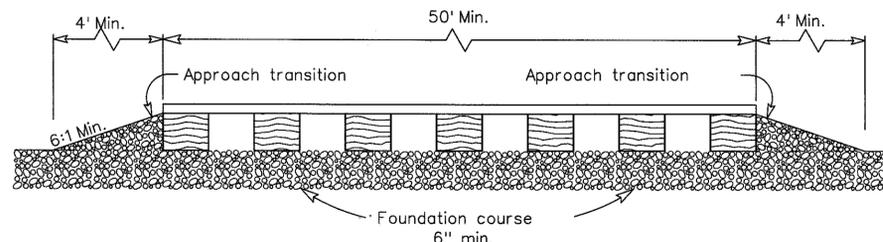
CONSTRUCTION EXIT (TYPE 1)

GENERAL NOTES

1. The length of the type 1 construction exit shall be as indicated on the plans, but not less than 50'.
2. The coarse aggregate should be open graded with a size of 4" to 8".
3. The approach transitions should be no steeper than 6:1 and constructed as directed by the Engineer.
4. The construction exit foundation course shall be flexible base, bituminous concrete, portland cement concrete or other material as approved by the Engineer.
5. The construction exit shall be graded to allow drainage to a sediment trapping device.
6. The guidelines shown hereon are suggestions only and may be modified by the Engineer.



PLAN

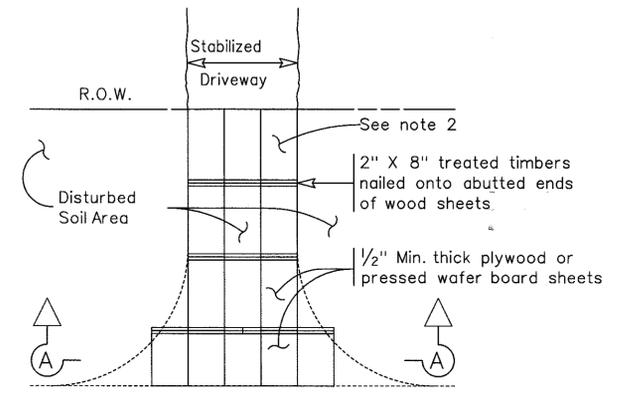


PROFILE

CONSTRUCTION EXIT (TYPE 2)

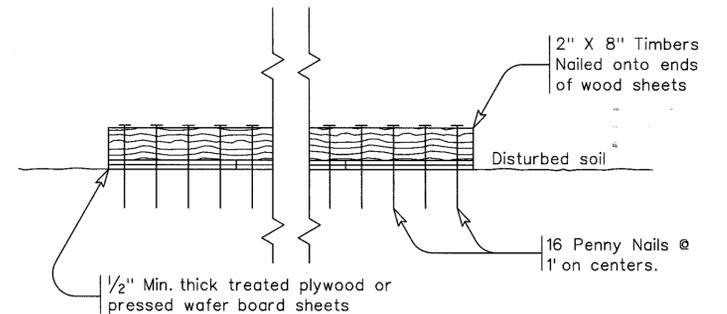
GENERAL NOTES

1. The length of the type 2 construction exit shall be as indicated on the plans, but not less than 50'.
2. The treated timber planks shall be attached to the railroad ties with 1/2" x 6" min. lag bolts. Other fasteners may be used as approved by the Engineer.
3. The treated timber planks shall be #2 grade min., and should be free from large and loose knots.
4. The approach transitions shall be no steeper than 6:1 and constructed as directed by the Engineer.
5. The construction exit foundation course shall be flexible base, bituminous concrete, portland cement concrete or other material as approved by the Engineer.
6. The construction exit should be graded to allow drainage to a sediment trapping device.
7. The guidelines shown hereon are suggestions only and may be modified by the Engineer.



Paved Roadway

PLAN



SECTION A-A

CONSTRUCTION EXIT (TYPE 3)

GENERAL NOTES

1. The length of the type 3 construction exit shall be as shown on the plans, or as directed by the Engineer.
2. The type 3 construction exit may be constructed from open graded crushed stone with a size of two to four inches spread a min. of 4" thick to the limits shown on the plans.
3. The treated timber planks shall be #2 grade min., and should be free from large and loose knots.
4. The guidelines shown hereon are suggestions only and may be modified by the Engineer.

Texas Department of Transportation
Design Division (Roadway)

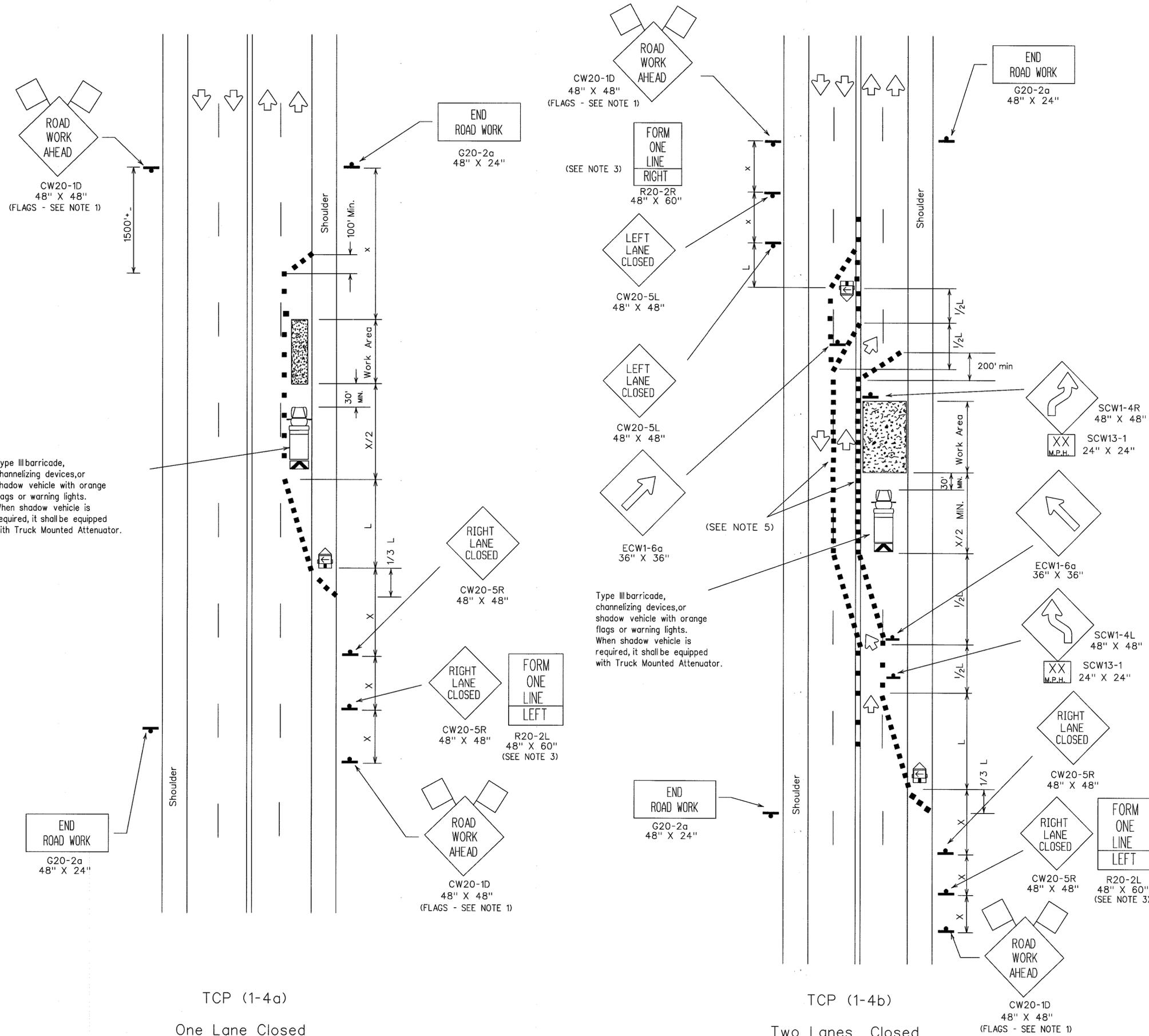
TEMPORARY EROSION,
SEDIMENT AND WATER
POLLUTION CONTROL MEASURES
CONSTRUCTION EXITS

EC(3)-93

FILE: EC393.DGN	DN: HEJ	CK: HEJ	DW: BGD	CK:
© TxDOT JUNE 1993	DISTRICT	FEDERAL AID PROJECT		SHEET
REVISIONS	COUNTY	CONTROL	SECT	JOB
				HIGHWAY

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DN:	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
CK:	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32
DW:	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48
CK:	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64



LEGEND

	Type III Barricade		Channelizing Devices		Flag
	Heavy Work Vehicle		Truck Mounted Attenuator		
	Trailer Mounted Flashing Arrow Panel		Portable Changeable Message Sign		
	Flagger		Sign Post		

Posted Speed X	Formula	Minimum Desirable Taper Lengths			Suggested Maximum Spacing of Device		Minimum Sign Spacing X Distance
		10' Offset	11' Offset	12' Offset	On a Taper	On a Tangent	
30	L = WS ² / 60	150'	165'	180'	30'	60'-75'	120'
35		205'	225'	245'	35'	70'-90'	160'
40		265'	295'	320'	40'	80'-100'	240'
45	L = WS	450'	495'	540'	45'	90'-110'	320'
50		500'	550'	600'	50'	100'-125'	400'
55		550'	605'	660'	55'	110'-140'	500'
60		600'	660'	720'	60'	120'-150'	* 600'
65		650'	715'	780'	65'	130'-165'	* 700'
70	700'	770'	840'	70'	140'-175'	* 800'	

* Conventional Roads Only
 * * Taper lengths have been rounded off.
 L- Length of Taper (FT.) W- Width of Offset (FT.) S- Posted Speed (MPH)

TYPICAL USAGE:

MOBILE	SHORT DURATION	SHORT TERM STATIONARY	INTERMEDIATE TERM STATIONARY	LONG TERM STATIONARY
	✓	✓		

- GENERAL NOTES:
- Unless otherwise stated in the plans, flags attached to the signs are REQUIRED.
 - All traffic control devices illustrated are REQUIRED, except those denoted with the triangle symbol may be omitted when stated elsewhere in the plans.
 - The FORM ONE LANE LEFT sign may be used following the RIGHT LANE CLOSED sign. Spacing distance between signs should be the minimum distance indicated.
 - ROAD WORK AHEAD sign may be repeated if the visibility of the work zone is less than 1500'.
 - If pavement markings are not removed and traffic is directed over a double yellow centerline, the maximum spacing of channelizing devices in a tangent section should be no greater than 10 feet.

Only pre-qualified products shall be used. A list of compliant products and their sources may be obtained by writing or faxing:
 Standards Engineer
 Traffic Operations Division - TE
 Texas Department of Transportation
 125 East 11th Street
 Austin, Texas 78701-2483
 Phone (512) 416-3335
 Fax (512) 416-3161
 E-mail TRF-STANDARD@mailgw.dot.state.tx.us

The requirement for shadow vehicles will be listed in the project GENERAL NOTES, Item 502, Barricades, Signs and Traffic Handling.

STANDARD PLANS
 TEXAS DEPARTMENT OF TRANSPORTATION
 Traffic Operations Division

TRAFFIC CONTROL PLAN

TCP(1-4)-98

© TxDOT December 1985		DN- LR	OK- MT	DN- DN	OK- MT	NEG NO.:
REVISIONS	STATE DISTRICT	FEDERAL REGION	FEDERAL AID PROJECT			SHEET
2-94		6				
8-95			COUNTY	CONTROL	SECTION	JOB
1-97						HIGHWAY
4-98						

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SIGN SUPPORT DESCRIPTIVE CODES

(Descriptive Codes correspond to project estimate and quantities sheets)

SM RD SGN ASSM TY XXXXX(X)XX(X-XXXX)

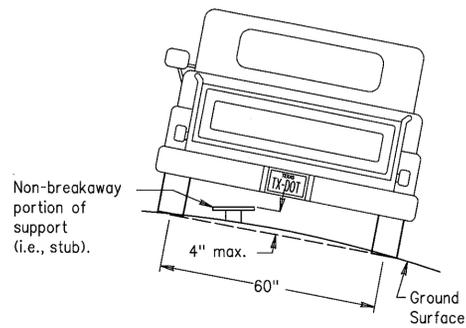
Post Type _____
 FRP = Fiberglass Reinforced Plastic Pipe (see SMD(FRP))
 TWT = Thin-Walled Tubing (see SMD(TWT))
 10BWG = 10 BWG Tubing (see SMD(SLIP-1) to (SLIP-3))
 S80 = Schedule 80 Pipe (see SMD(SLIP-1) to (SLIP-3))

Number of Posts (1 or 2) _____

Anchor Type _____
 UA = Universal Anchor - Concreted (see SMD(FRP) and (TWT))
 UB = Universal Anchor - Bolted down (see SMD(FRP) and (TWT))
 WS = Wedge Anchor Steel- (see SMD(TWT))
 WP = Wedge Anchor Plastic (see SMD(TWT))
 SA = Slipbase - Concreted (see SMD(SLIP-1) to (SLIP-3))
 SB = Slipbase - Bolted Down (see SMD(SLIP-1) to (SLIP-3))

Sign Mounting Designation
 P = Prefab. "Plain" (see SMD(SLIP-1) to (SLIP-3), (TWT), (FRP))
 T = Prefab. "T" (see SMD(SLIP-1) to (SLIP-3), (TWT))
 U = Prefab. "U" (see SMD(SLIP-1) to (SLIP-3))
 IF REQUIRED
 1EXT or 2EXT = Number of Extensions (see SMD(SLIP-1) to (SLIP-3), (TWT))
 BM = Extruded Wind Beam (see SMD(SLIP-1) to (SLIP-3))
 WC = 1.12 #/ft Wing Channel (see SMD(SLIP-1) to (SLIP-3))
 EXAL = Extruded Aluminum Sign Panels (see SMD(SLIP-3))

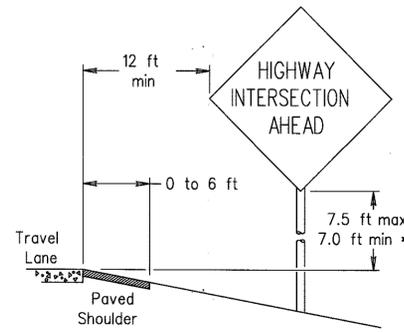
REQUIRED CLEARANCE FOR BREAKAWAY SUPPORT



To avoid vehicle undercarriage snagging, any substantial remains of a breakaway support, when it is broken away, should not project more than 4 inches above a 60-inch chord (i.e., typical space between wheelpaths).

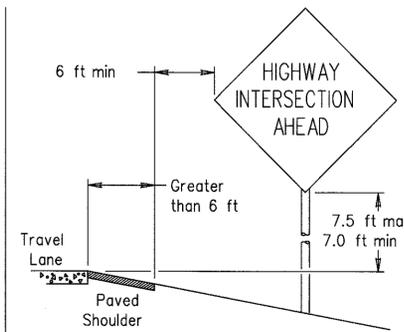
SIGN LOCATION

PAVED SHOULDERS



LESS THAN 6 FT. WIDE

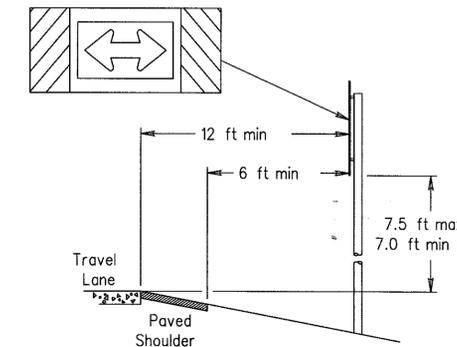
When the shoulder is 6 ft. or less in width, the sign must be placed at least 12 ft. from the edge of the travel lane.



GREATER THAN 6 FT. WIDE

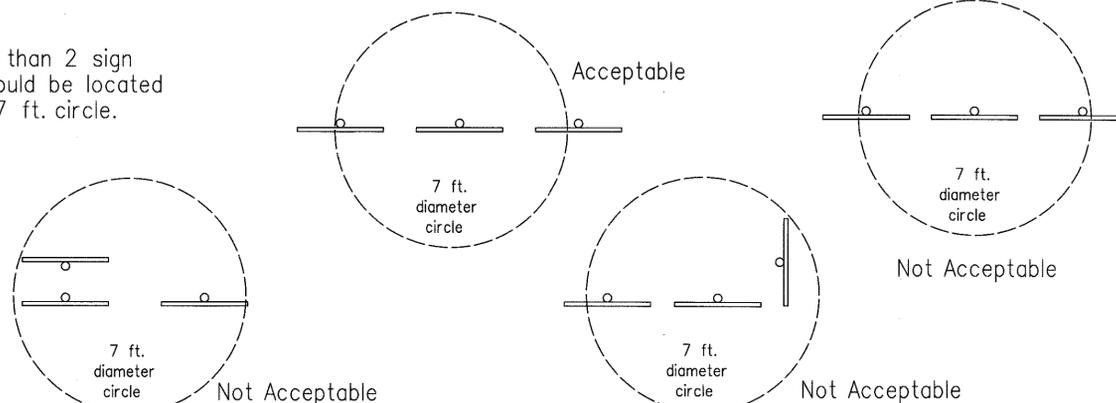
When the shoulder is greater than 6 ft in width, the sign must be placed at least 6 ft. from the edge of the shoulder.

T-INTERSECTION

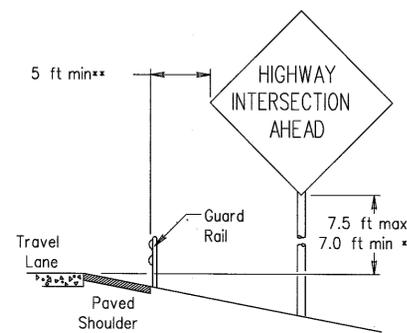


When this sign is needed at the end of a two-lane, two way roadway, the right edge of the sign should be in line with the centerline of the roadway. Place as close to ROW as practical.

No more than 2 sign posts should be located within a 7 ft. circle.

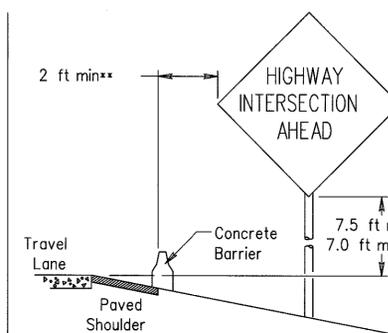


BEHIND BARRIER



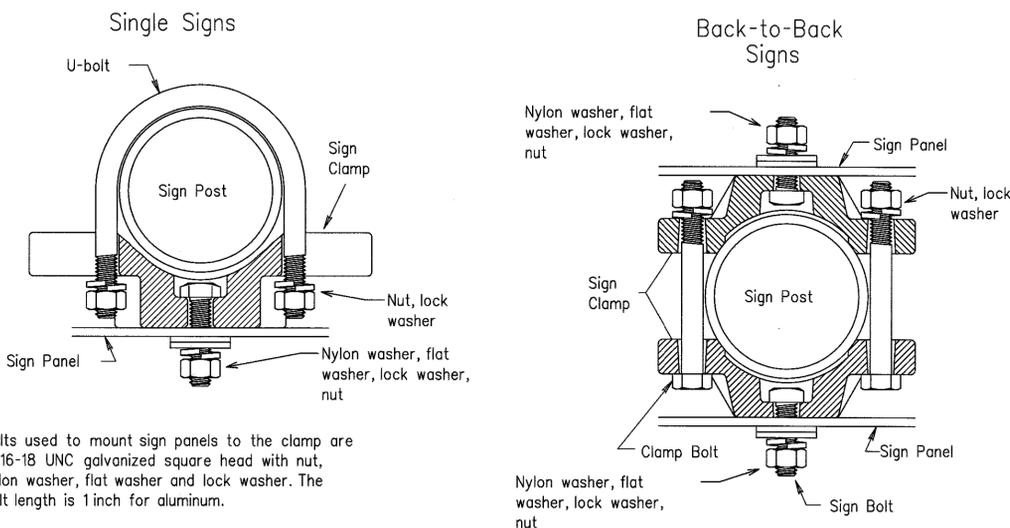
BEHIND GUARDRAIL

**Sign clearance based on distance required for proper guard rail or concrete barrier performance.



BEHIND CONCRETE BARRIER

TYPICAL SIGN ATTACHMENT DETAIL



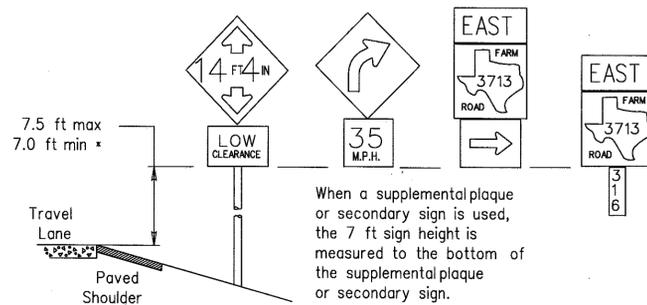
Bolts used to mount sign panels to the clamp are 5/16-18 UNC galvanized square head with nut, nylon washer, flat washer and lock washer. The bolt length is 1 inch for aluminum.

When two sign clamps are used to mount signs back-to-back, use a 5/16-18 UNC galvanized hex head per ASTM A307 with nut and helical-spring lock washer. The approximate bolt lengths for various post sizes and sign clamp types are given in the table at right. The bolt length may need to be adjusted depending upon field conditions.

Sign clamps may be either the specific size clamp or the universal clamp.

Pipe Diameter	Approximate Bolt Length	
	Specific Clamp	Universal Clamp
2" nominal	3"	3 or 3 1/2"
2 1/2" nominal	3 or 3 1/2"	3 1/2 or 4"
3" nominal	3 1/2 or 4"	4 1/2"

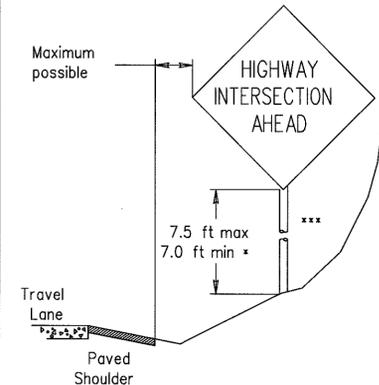
SIGNS WITH PLAQUES



When a supplemental plaque or secondary sign is used, the 7 ft sign height is measured to the bottom of the supplemental plaque or secondary sign.

RESTRICTED RIGHT-OF-WAY

(When 6 ft. min. is not possible.)

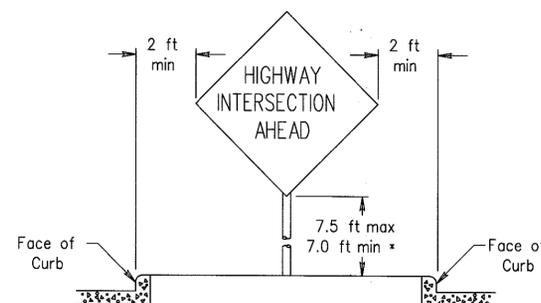


Right-of-way restrictions may be created by rocks, water, vegetation, forest, buildings, a narrow island, or other factors.

In situations where a lateral restriction prevents the minimum horizontal clearance from the edge of the travel lane, signs should be placed as far from the travel lane as practical.

*** Post may be shorter if protected by guardrail or if Engineer determines the post could not be hit due to extreme slope.

CURB & GUTTER OR RAISED ISLAND



* Signs shall be mounted using the following condition that results in the greatest sign elevation:

- (1) a minimum of 7 to a maximum of 7.5 feet above the edge of the travel lane or
- (2) a minimum of 7 to a maximum of 7.5 feet above the grade at the base of the support when sign is installed on the backslope.

The maximum values may be increased when directed by the Engineer.
 See the Traffic Operations Division website for detailed drawings of sign clamps, Triangular Slipbase System components and Wedge Anchor System components.

The website address is:
<http://www.txdot.gov/publications/traffic.htm>



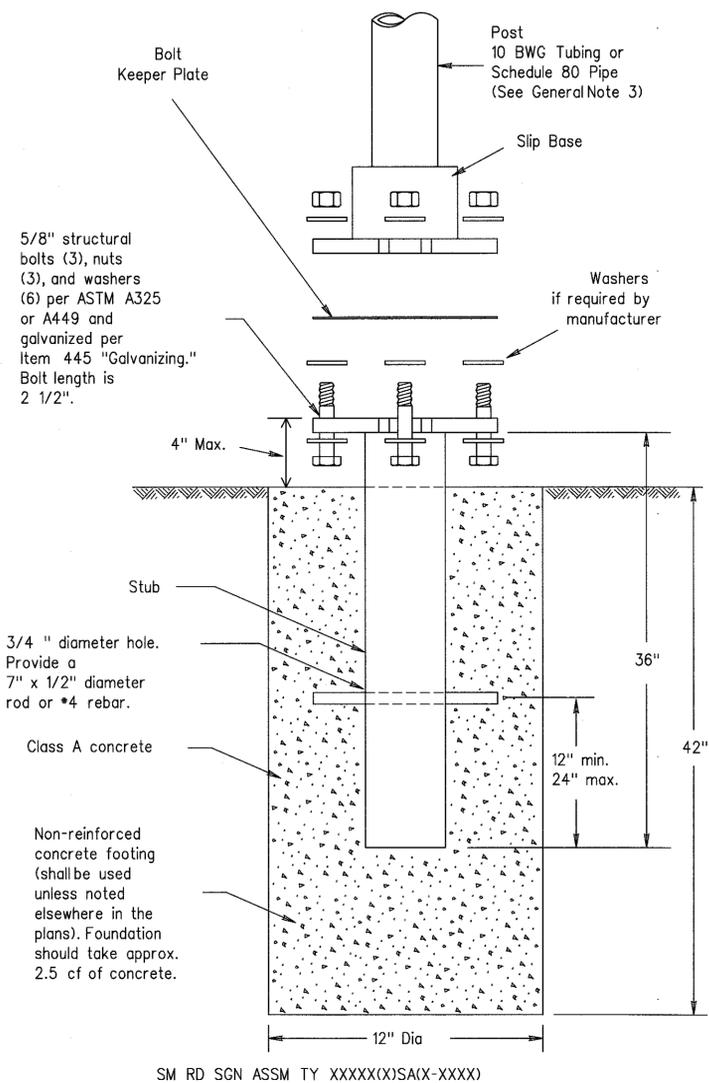
SIGN MOUNTING DETAILS SMALL ROADSIDE SIGNS GENERAL NOTES & DETAILS

SMD(GEN)-08

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			COUNTY	SHEET NO.

TRIANGULAR SLIPBASE INSTALLATION GENERAL REQUIREMENTS

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SM RD SGN ASSM TY XXXXX(X)SA(X-XXXX)

NOTE

There are various devices approved for the Triangular Slipbase System. Please reference the Material Producer List for approved slip base systems. http://www.txdot.gov/business/producer_list.htm The devices shall be installed per manufacturers' recommendations. Installation procedures shall be provided to the Engineer by Contractor.

GENERAL NOTES:

- Slip base shall be permanently marked to indicate manufacturer. Method, design, and location of marking are subject to approval of the TxDOT Traffic Standards Engineer.
- Material used as post with this system shall conform to the following specifications:
 - 10 BWG Tubing (2.875" outside diameter)
 - 0.134" nominal wall thickness
 - Seamless or electric-resistance welded steel tubing or pipe
 - Steel shall be HSLAS Gr 55 per ASTM A1011 or ASTM A1008
 - Other steels may be used if they meet the following:
 - 55,000 PSI minimum yield strength
 - 70,000 PSI minimum tensile strength
 - 20% minimum elongation in 2"
 - Wall thickness (uncoated) shall be within the range of 0.122" to 0.138"
 - Outside diameter (uncoated) shall be within the range of 2.867" to 2.883"
 - Galvanization per ASTM A123 or ASTM A653 G210. For pre-coated steel tubing (ASTM A653), recoat tube outside diameter weld seam by metallizing with zinc wire per ASTM B833.
 - Schedule 80 Pipe (2.875" outside diameter)
 - 0.276" nominal wall thickness
 - Steel tubing per ASTM A500 Gr C
 - Other seamless or electric-resistance welded steel tubing or pipe with equivalent outside diameter and wall thickness may be used if they meet the following:
 - 46,000 PSI minimum yield strength
 - 62,000 PSI minimum tensile strength
 - 21% minimum elongation in 2"
 - Wall thickness (uncoated) shall be within the range of 0.248" to 0.304"
 - Outside diameter (uncoated) shall be within the range of 2.855" to 2.895"
 - Galvanization per ASTM A123
- See the Traffic Operations Division website for detailed drawings of sign clamps and Texas Universal Triangular Slipbase System components. The website address is: <http://www.txdot.gov/publications/traffic.htm>
- Sign supports shall not be spliced except where shown. Sign support posts shall not be spliced.

ASSEMBLY PROCEDURE

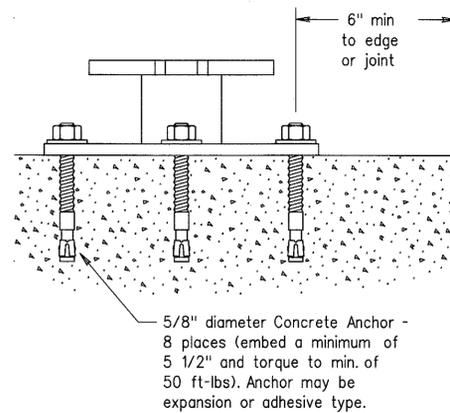
Foundation

- Prepare 12-inch diameter by 42-inch deep hole. If solid rock is encountered, the depth of the foundation may be reduced such that it is embedded a minimum of 18 inches into the solid rock.
- The Engineer may permit batches of concrete less than 2 cubic yards to be mixed with a portable, motor-driven concrete mixer. For small placements less than 0.5 cubic yards, hand mixing in a suitable container may be allowed by Engineer. Concrete shall be Class A.
- Push the pipe end of the slip base stub into the center of the concrete. Rotate the stub back and forth while pushing it down into the concrete to assure good contact between the concrete and stub. Continue to work the stub into the concrete until it is between 2 to 4 inches above the ground.
- Plumb the stub. Allow a minimum of 4 days to set, unless otherwise directed by the Engineer.
- The triangular slipbase system is multidirectional and is designed to release when struck from any direction.

Support

- Cut support so that the bottom of the sign will be 7 to 7.5 feet above the edge of the travelway (i.e., edge of the closest lane) when slip plate is below the edge of pavement or 7 to 7.5 feet above slip plate when the slip plate is above the edge of the travelway. The cut shall be plumb and straight.
- Attach sign to support using connections shown. When multiple signs are installed on the same support, ensure the minimum clearance between each sign is maintained. See SMD(SLIP-2) for clearances based on sign types.

CONCRETE ANCHOR



SM RD SGN ASSM TY XXXXX(X)SB(X-XXXX)

Concrete anchor consists of 5/8" diameter stud bolt with UNC series bolt threads on the upper end. Heavy hex nut per ASTM A563, and hardened washer per ASTM F436. The stud bolt shall have a minimum yield and ultimate tensile strength of 50 and 75 KSI, respectively. Nuts, bolts and washers shall be galvanized per Item 445, "Galvanizing." Adhesive type anchors shall have stud bolts installed with Type III epoxy per DMS-6100, "Epoxy and Adhesives." Adhesive anchors may be loaded after adequate epoxy cure time per the manufacturer's recommendations. Top of bolt shall extend at least flush with top of the nut when installed. The anchor, when installed in 4000 psi normal-weight concrete with a 5 1/2" minimum embedment, shall have a minimum allowable tension and shear of 3900 and 3100 psi, respectively.



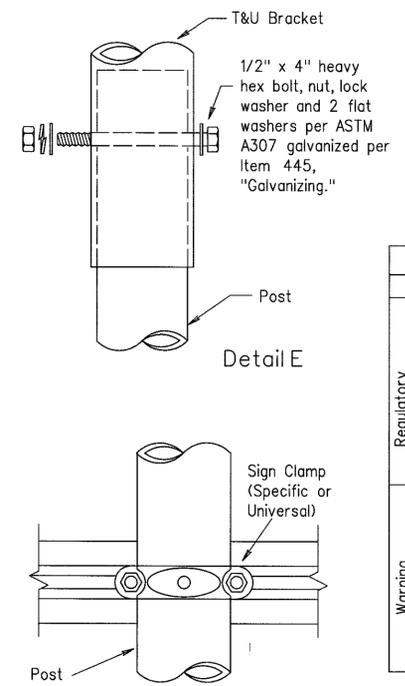
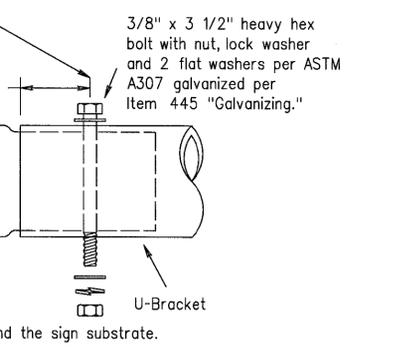
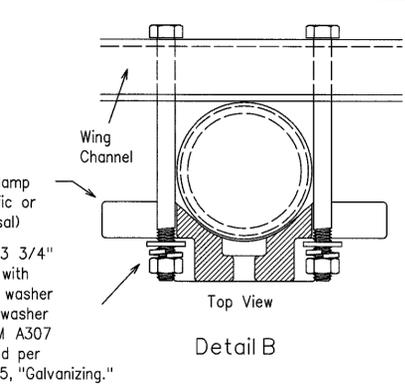
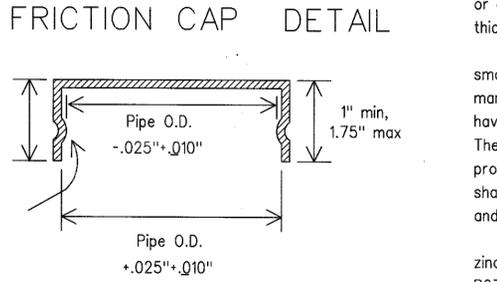
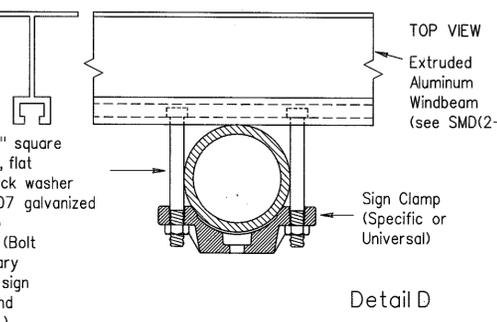
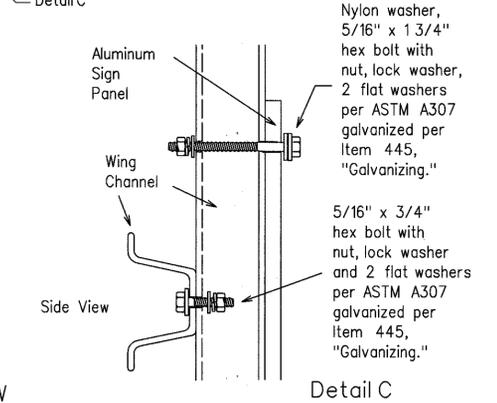
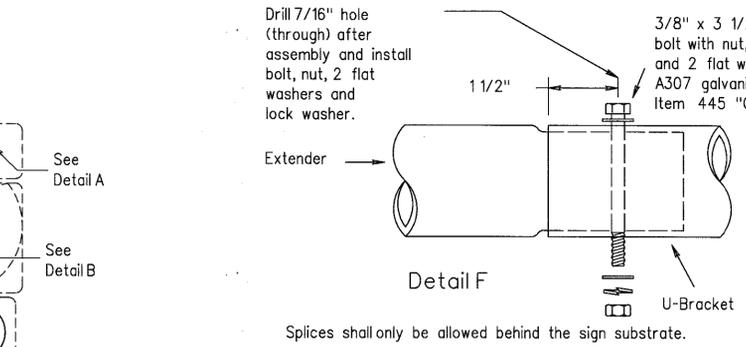
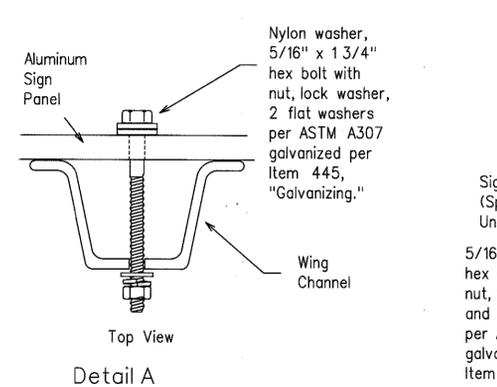
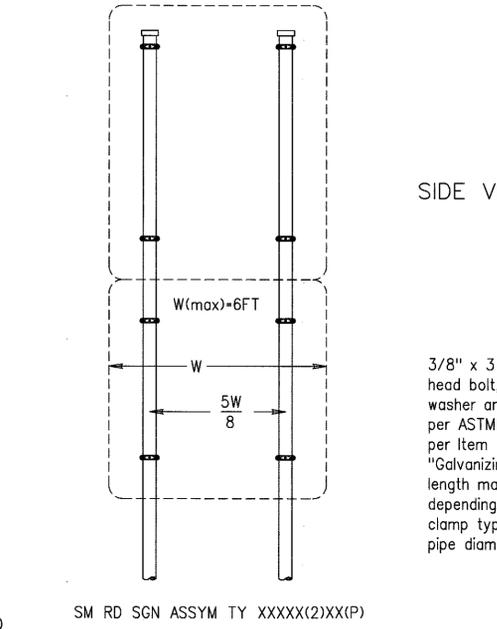
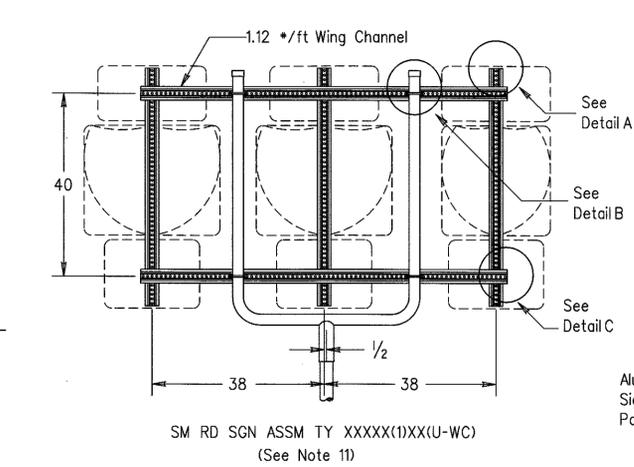
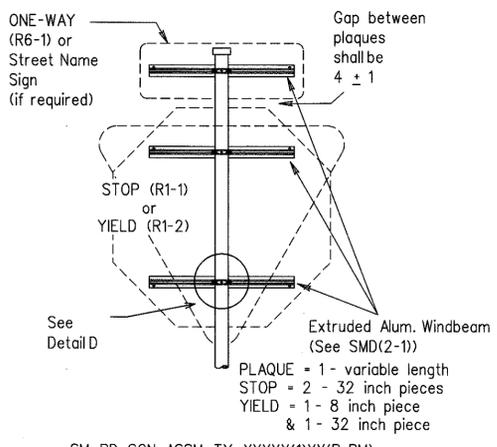
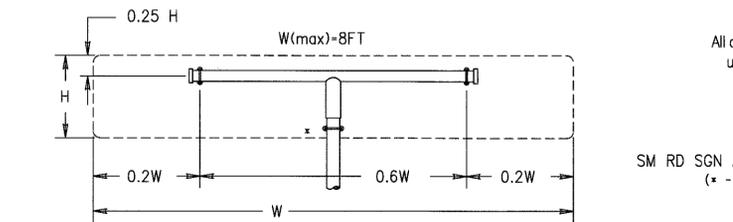
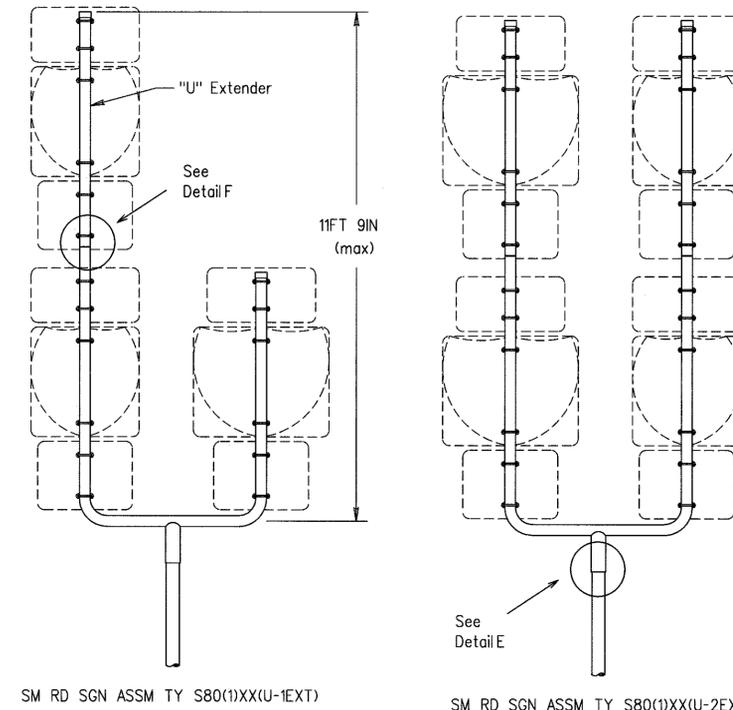
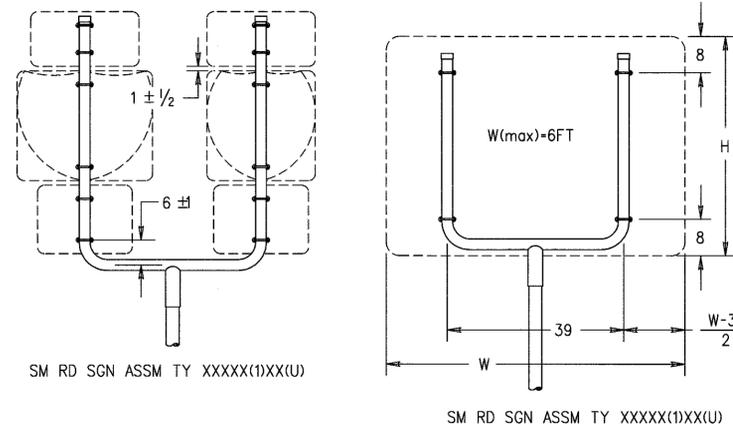
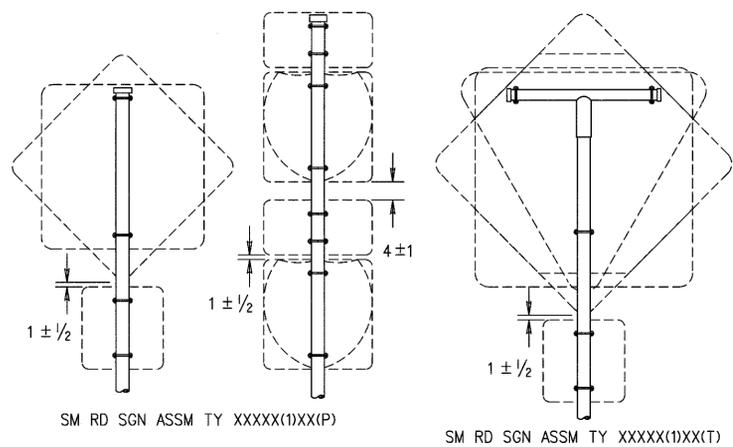
SIGN MOUNTING DETAILS SMALL ROADSIDE SIGNS TRIANGULAR SLIPBASE SYSTEM

SMD(SLIP-1)-08

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All dimensions are in english unless detailed otherwise.

Friction caps may be manufactured from hot rolled or cold rolled steelsheets. The minimum sheet metal thickness shall be 24 gauge for all cap sizes. The rim edges shall be reasonably straight and smooth. Caps shall be sized and formed in such a manner as to produce a drive-on friction fit and have no tendency to rock when seated on the pipe. The depth shall be sufficient to give positive protection against entrance of rainwater. They shall be free of sharp creases or indentations and show no evidence of metal fracture. Caps shall have an electrodeposited coating of zinc in accordance with the requirements of ASTM B633 Class FE/ZN 8.

GENERAL NOTES:

- | SIGN SUPPORT | OF POSTS | MAX. SIGN AREA |
|--------------|----------|----------------|
| 10 BWG | 1 | 16 SF |
| 10 BWG | 2 | 32 SF |
| Sch 80 | 1 | 32 SF |
| Sch 80 | 2 | 64 SF |
- The Engineer may require that a Schedule 80 post be used in place of a 10 BWG where a sign height is abnormally high due to a fill slope.
- Sign supports shall not be spliced except where shown. Sign support posts shall not be spliced.
- Aluminum sign blanks shall conform to Departmental Material Specifications DMS-7110 and shall have the following minimum thicknesses: 0.080 for signs less than 7.5 sq. ft., 0.100 for signs 7.5 to 15 sq. ft., and 0.125 for signs greater than 15 sq. ft.
- Signs that require specific supports due to reasons in addition to windloading are indicated on the "REQUIRED SUPPORT" table on this sheet.
- For horizontal rectangular signs fabricated from flat aluminum, T-brackets are used for signs 24 inches or less in height. U-brackets are used for signs of greater height.
- When two triangular slipbase supports are used to support a single sign, they shall not be "rigidly" connected to each other except through the sign panel. This will allow each support to act independently when impacted by an errant vehicle.
- Wing channel shall meet ASTM A 1011 SS Gr 50 and be galvanized per ASTM A 123.
- Excess pipe, wing channel, or windbeam shall be cut off so that it does not extend beyond the sign panel (i.e., excess support shall not be visible when the sign is viewed from the front.) Repair galvanized coating at cut support ends per Item 445, "Galvanizing."
- Additional route markers may be added vertically, provided the total sign area does not exceed the maximum allowable amount per Note 1.
- Additional sign clamp required on the "T-bracket" post for 24 inch height signs. Place the clamp 3 inches above bottom of sign when possible.
- Post open ends shall be fitted with Friction Caps.
- Sign blanks shall be the sizes and shapes shown on the plans.

REQUIRED SUPPORT	
SIGN DESCRIPTION	SUPPORT
48-inch STOP sign (R1-1)	TY 10BWG(1)XX(T) TY 10BWG(1)XX(P-BM)
60-inch YIELD sign (R1-2)	TY 10BWG(1)XX(T) TY 10BWG(1)XX(P-BM)
48x16-inch ONE-WAY sign (R6-1)	TY 10BWG(1)XX(T) TY 10BWG(1)XX(P-BM)
36x48, 48x36, and 48x48-inch signs	TY 10BWG(1)XX(T)
48x60-inch signs	TY S80(1)XX(T)
48x48-inch signs (diamond or square)	TY 10BWG(1)XX(T)
48x60-inch signs	TY S80(1)XX(T)
48-inch Advance School X-ing sign (S1-1)	TY 10BWG(1)XX(T)
48-inch School X-ing sign (S2-1)	TY 10BWG(1)XX(T)
Large Arrow sign (W1-6 & W1-7)	TY 10BWG(1)XX(T)

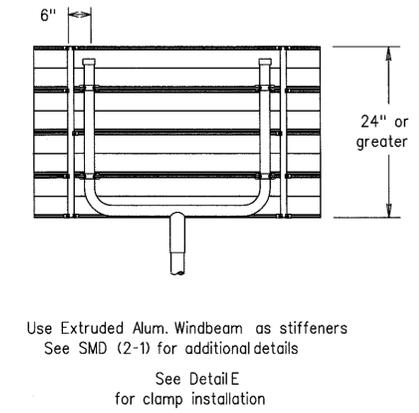
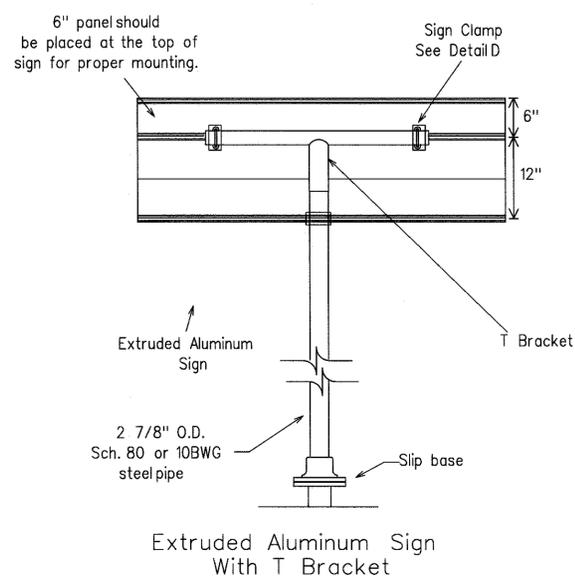
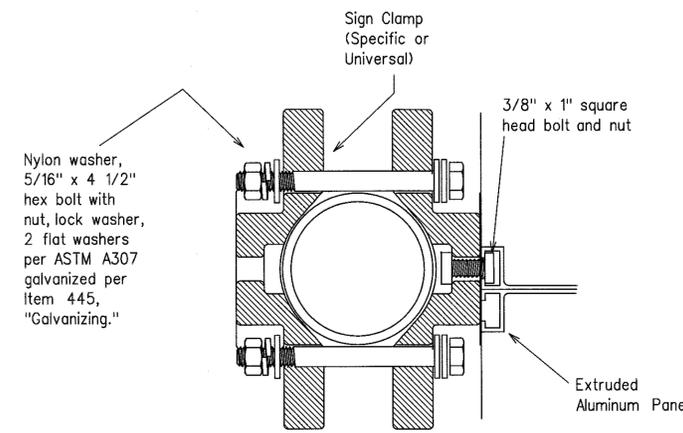
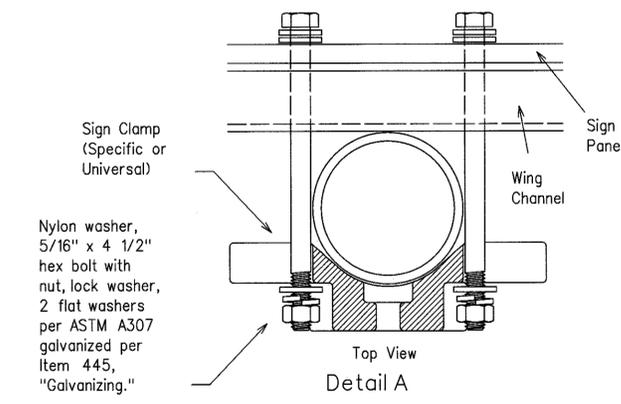
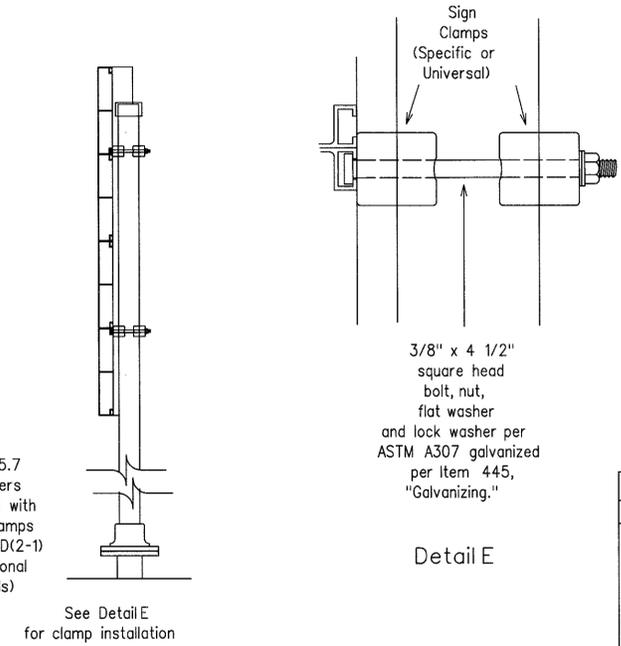
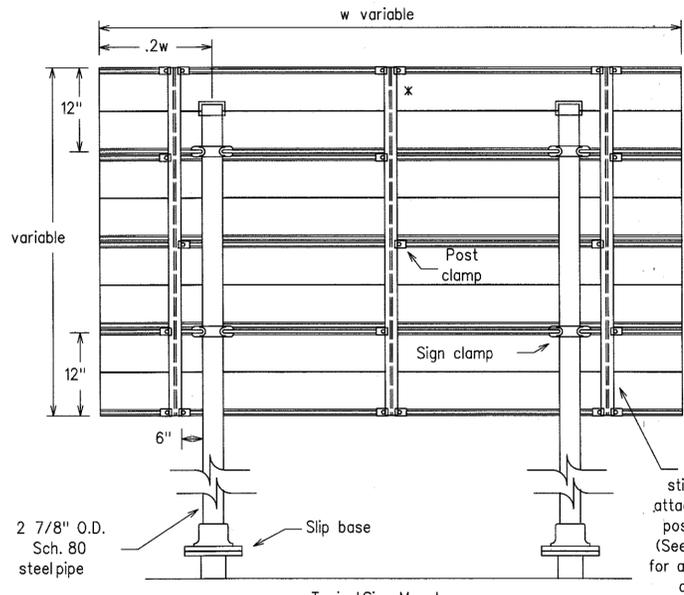
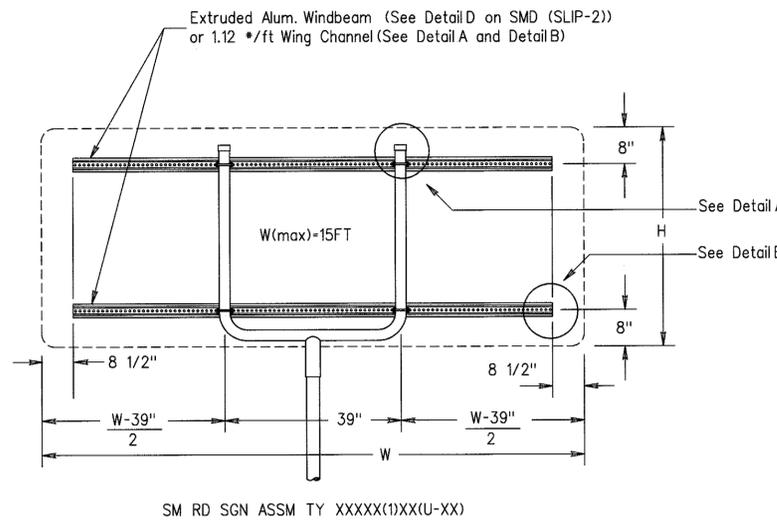
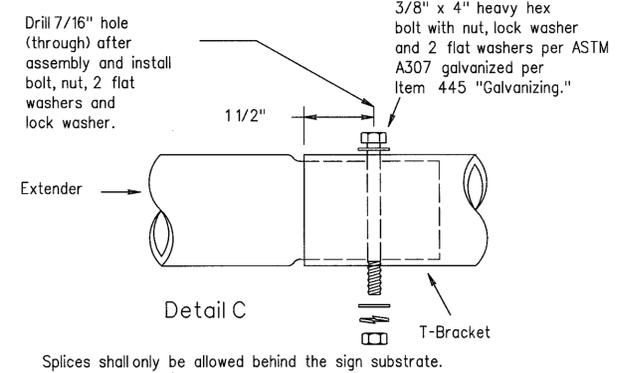
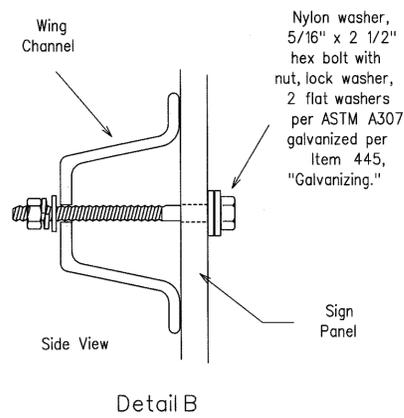
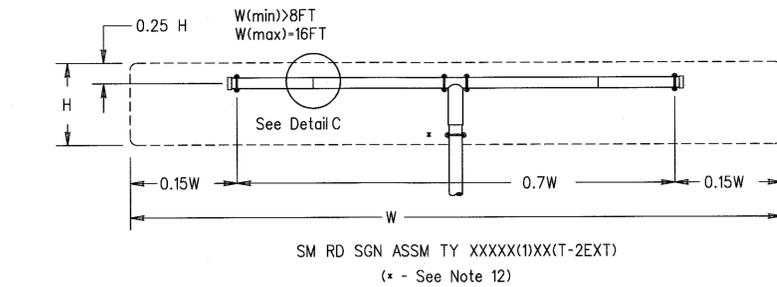


SIGN MOUNTING DETAILS
SMALL ROADSIDE SIGNS
TRIANGULAR SLIPBASE SYSTEM
SMD(SLIP-2)-08

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GENERAL NOTES:

SIGN SUPPORT	# OF POSTS	MAX. SIGN AREA
10 BWG	1	16 SF
10 BWG	2	32 SF
Sch 80	1	32 SF
Sch 80	2	64 SF

- The Engineer may require that a Schedule 80 post be used in place of a 10 BWG where a sign height is abnormally high due to a fill slope.
- Sign supports shall not be spliced except where shown. Sign support posts shall not be spliced.
- Aluminum sign blanks shall conform to Departmental Material Specifications DMS-7110 and shall have the following minimum thicknesses: 0.080 for signs less than 7.5 sq. ft., 0.100 for signs 7.5 to 15 sq. ft., and 0.125 for signs greater than 15 sq. ft.
- Signs that require specific supports due to reasons in addition to windloading are indicated on the "REQUIRED SUPPORT" table on this sheet.
- For horizontal rectangular signs fabricated from flat aluminum, T-brackets are used for signs 24 inches or less in height. U-brackets are used for signs of greater height.
- When two triangular slipbase supports are used to support a single sign, they shall not be "rigidly" connected to each other except through the sign panel. This will allow each support to act independently when impacted by an errant vehicle.
- Wing channel shall meet ASTM A 1011 SS Gr 50 and be galvanized per ASTM A 123.
- Excess pipe, wing channel, or windbeam shall be cut off so that it does not extend beyond the sign panel (i.e., excess support shall not be visible when the sign is viewed from the front.) Repair galvanized coating at cut support ends per Item 445, "Galvanizing."
- Sign blanks shall be the sizes and shapes shown on the plans.
- Additional sign clamp required on the "T-bracket" post for 24 inch high signs. Place the clamp 3 inches above bottom of sign when possible.
- Post open ends shall be fitted with Friction Caps.

REQUIRED SUPPORT		
	SIGN DESCRIPTION	SUPPORT
Regulatory	48-inch STOP sign (R1-1)	TY 10BWG(1)XX(T) TY 10BWG(1)XX(P-BM)
	60-inch YIELD sign (R1-2)	TY 10BWG(1)XX(T) TY 10BWG(1)XX(P-BM)
	48x16-inch ONE-WAY sign (R6-1)	TY 10BWG(1)XX(T) TY 10BWG(1)XX(P-BM)
	36x48, 48x36, and 48x48-inch signs	TY 10BWG(1)XX(T)
Warning	48x60-inch signs	TY S80(1)XX(T)
	48x48-inch signs (diamond or square)	TY 10BWG(1)XX(T)
	48x60-inch signs	TY S80(1)XX(T)
	48-inch Advance School X-ing sign (S1-1)	TY 10BWG(1)XX(T)
	48-inch School X-ing sign (S2-1)	TY 10BWG(1)XX(T)
	Large Arrow sign (W1-6 & W1-7)	TY 10BWG(1)XX(T)

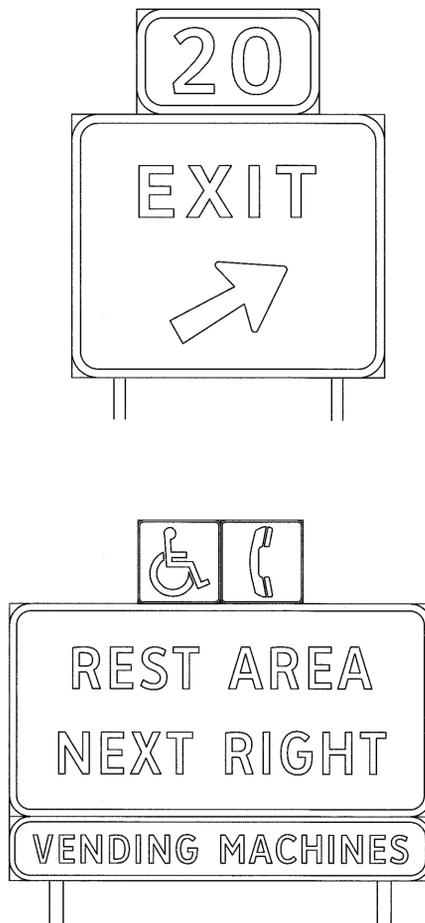
Texas Department of Transportation
Traffic Operations Division

SIGN MOUNTING DETAILS
SMALL ROADSIDE SIGNS
TRIANGULAR SLIPBASE SYSTEM
SMD(SLIP-3)-08

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REQUIREMENTS FOR E SERIES STANDARD GUIDE SIGNS

TYPICAL EXAMPLES



DEPARTMENTAL MATERIAL SPECIFICATIONS			
ALUMINUM SIGN BLANKS			DMS-7110
SIGN FACE MATERIALS			DMS-8300
FIBERGLASS SIGN SUBSTRATE			DMS-8305
GROUND-MOUNTED SIGNS			
USAGE	COLOR	SIGN FACE MATERIAL	
BACKGROUND	ALL	TYPE C SHEETING	
LEGEND & BORDERS	WHITE	TYPE D SHEETING	

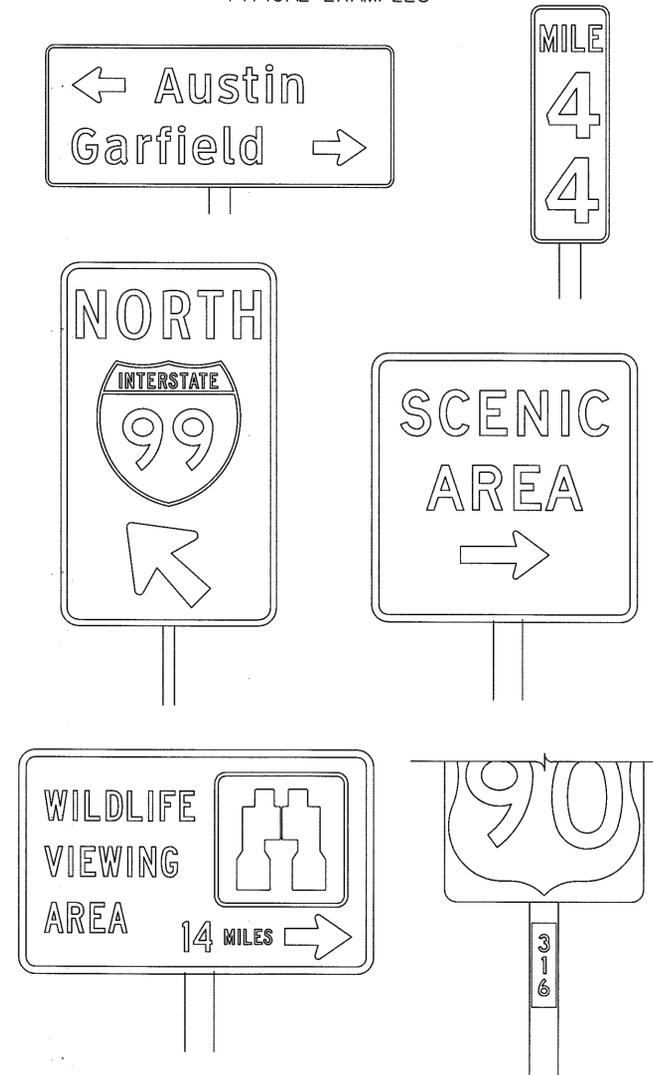
GENERAL NOTES:

- Signs to be furnished shall be as detailed elsewhere in the plans and/or as shown on sign tabulation sheet. Standard sign designs and arrow dimensions can be found in the "Standard Highway Sign Designs for Texas" (SHSD). Individual panel sizes shown in the plans may be adjusted to fit actual parent sign sizes if necessary.
- White legend shall use the Clearview Alphabet. The following Clearview fonts shall be used to replace the existing white Federal Highway Administration (FHWA) Standard Highway Alphabets, when not specified in the SHSD, or in the plans.

B	CV-1W
C	CV-2W
D	CV-3W
E	CV-4W
Emod	CV-5WR
F	CV-6W
- Lateral spacing between letters and numerals shall conform with the SHSD, and any approved changes thereto. Lateral spacing of legend shall provide a balanced appearance when spacing is not shown.
- White legend, symbols and borders shall be cut-out white sheeting applied to colored background sheeting.
- Information regarding borders and radii for signs is found in the "Standard Highway Sign Designs for Texas". Dimensions shown and described for borders and corner radii on parent sign are nominal. Borders may vary in width as much as 1/2 inch. Corner radii above 3 inches may vary in width as much as 1 inch. Borders and corner radii within a parent sign must be of matching widths. The sign area outside the corner radius need not be trimmed or rounded if fabricated from an extruded material.
- Sign substrate shall be any material that meets the Departmental Material Specification requirements of DMS-7110, or DMS-8305. Exit Number Panels attached above the parent sign shall be made with the same substrate and sheeting as the parent sign.
- Mounting details of attachments above and below parent sign are shown in the "SMD series" Standard Plan Sheets. Mounting details of roadside signs are shown in the "SMD series" Standard Plan Sheets.
- Cut all legend, symbols, and borders at panel joints.

REQUIREMENTS FOR BLUE, BROWN & GREEN D AND I SERIES GUIDE SIGNS

TYPICAL EXAMPLES



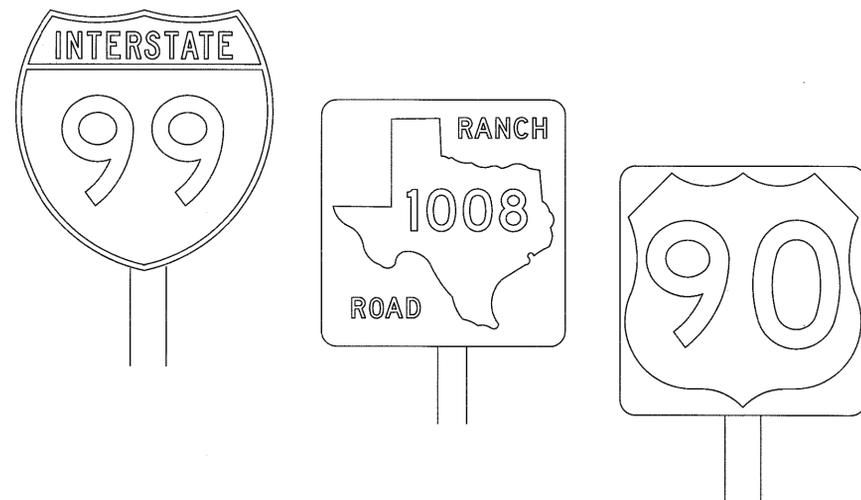
DEPARTMENTAL MATERIAL SPECIFICATIONS			
ALUMINUM SIGN BLANKS			DMS-7110
Square Ft.		Min. Thickness	
Less than 7.5		0.080	
7.5 to 15		0.100	
Greater than 15		0.125	
SIGN FACE MATERIALS			DMS-8300
FIBERGLASS SIGN SUBSTRATE			DMS-8305
GROUND-MOUNTED SIGNS			
USAGE	COLOR	SIGN FACE MATERIAL	
BACKGROUND	ALL	TYPE C SHEETING	
LEGEND & BORDERS	WHITE	TYPE D SHEETING	

GENERAL NOTES:

- Signs to be furnished shall be as detailed elsewhere in the plans and/or as shown on sign tabulation sheet. Standard sign designs and arrow dimensions can be found in the "Standard Highway Sign Designs for Texas" (SHSD).
- White legend shall use the Clearview Alphabet. The following Clearview fonts shall be used to replace the existing white Federal Highway Administration (FHWA) Standard Highway Alphabets, when not specified in the SHSD, or in the plans.

B	CV-1W
C	CV-2W
D	CV-3W
E	CV-4W
Emod	CV-5WR
F	CV-6W
- Lateral spacing between letters and numerals shall conform with the SHSD, and any approved changes thereto. Lateral spacing of legend shall provide a balanced appearance when spacing is not shown.
- White legend, symbols and borders shall be cut-out white sheeting applied to colored background sheeting.
- Information regarding borders and radii for signs is found in the "Standard Highway Sign Designs for Texas". Dimensions shown and described for borders and corner radii on parent sign are nominal. Borders may vary in width as much as 1/2 inch. Corner radii above 3 inches may vary in width as much as 1 inch. Borders and corner radii within a parent sign must be of matching widths. The sign area outside the corner radius should be trimmed or rounded.
- Sign substrate shall be any material that meets the Departmental Material Specification requirements of DMS-7110 or DMS-8305.
- Mounting details of roadside signs are shown in the "SMD series" Standard Plan Sheets.

REQUIREMENTS FOR INDEPENDENT MOUNTED ROUTE MARKERS



DEPARTMENTAL MATERIAL SPECIFICATIONS			
ALUMINUM SIGN BLANKS			DMS-7110
SIGN FACE MATERIALS			DMS-8300
USAGE	COLOR	SIGN FACE MATERIAL	
BACKGROUND	ALL	TYPE C SHEETING	
LEGEND & BORDERS	WHITE	TYPE C SHEETING	
LEGEND & BORDERS	BLACK	ACRYLIC NON-REFLECTIVE FILM	

GENERAL NOTES:

- Signs to be furnished shall be as detailed elsewhere in the plans and/or as shown on sign tabulation sheet. Standard sign designs and arrow dimensions can be found in the "Standard Highway Sign Designs for Texas" (SHSD).
- Route Marker legend (ie. IH, US, SH and FM shields) shall use the Federal Highway Administration (FHWA) Standard Highway Alphabets (B, C, D, E, Emod or F).
- Lateral spacing between letters and numerals shall conform with the SHSD, and any approved changes thereto. Lateral spacing of legend shall provide a balanced appearance when spacing is not shown.

- Black legend and borders shall be applied by screening process or cut-out acrylic non-reflective black film to white background sheeting, or combination thereof.
- White legend and borders shall be applied by screening process with transparent colored ink, transparent colored overlay film to white background sheeting or cut-out white sheeting to colored background sheeting, or combination thereof.
- Independent mounted Route Marker sign blanks, for 24 inch markers shall be 0.080 inch thick, and for 36 inch markers shall be 0.100 inch thick one piece sheet aluminum signs (Type A).
- Mounting details for roadside mounted signs are shown in the "SMD series" Standard Plan Sheets.

The Standard Highway Sign Designs for Texas (SHSD) can be found at the following website.

<http://www.txdot.gov/publications/traffic.htm>



TYPICAL SIGN REQUIREMENTS

TSR(3)-08

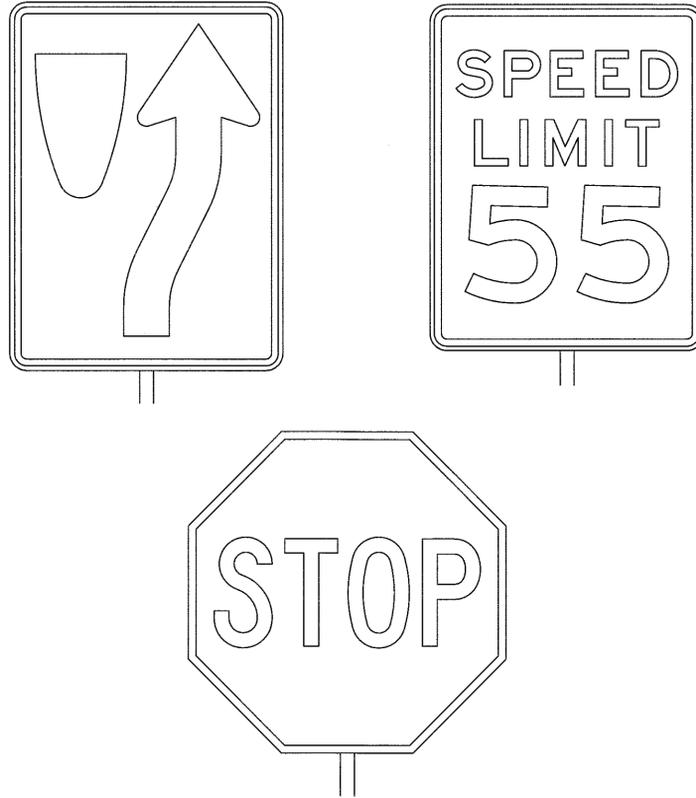
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REQUIREMENTS FOR REGULATORY SIGNS

TYPICAL EXAMPLES



DEPARTMENTAL MATERIAL SPECIFICATIONS

ALUMINUM SIGN BLANKS DMS-7110

Square Ft.	Min.	Thickness
Less than 7.5	0.080	0.080
7.5 to 15	0.100	0.100
Greater than 15	0.125	0.125

SIGN FACE MATERIALS DMS-8300

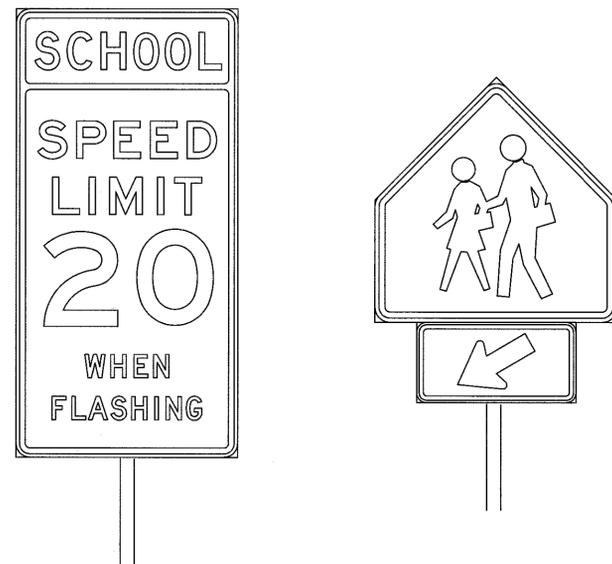
USAGE	COLOR	SIGN FACE MATERIAL
BACKGROUND	ALL	TYPE C SHEETING
LEGEND & BORDERS	WHITE	TYPE C SHEETING
LEGEND & BORDERS	BLACK	ACRYLIC NON-REFLECTIVE FILM

GENERAL NOTES:

1. Signs to be furnished shall be as detailed elsewhere in the plans and/or as shown on sign tabulation sheet. Standard sign designs and arrow dimensions can be found in the "Standard Highway Sign Designs for Texas" (SHSD).
2. Regulatory sign legend shall use the Federal Highway Administration (FHWA) Standard Highway Alphabets (B, C, D, E, Emod or F).
3. Lateral spacing between letters and numerals shall conform with the SHSD, and any approved changes thereto. Lateral spacing of legend shall provide a balanced appearance when spacing is not shown.
4. Black legend and borders shall be applied by screening process or cut-out acrylic non-reflective black film to white background sheeting, or combination thereof.
5. White legend and borders shall be applied by screening process with transparent colored ink, transparent colored overlay film to white background sheeting or cut-out white sheeting to colored background sheeting, or combination thereof.
6. Colored legend shall be applied by screening process with transparent colored ink, transparent colored overlay film or colored sheeting to background sheeting, or combination thereof.
7. Sign substrate shall be any material that meets the Departmental Material Specification requirements of DMS-7110.
8. Mounting details for roadside mounted signs are shown in the "SMD series" Standard Plan Sheets.

REQUIREMENTS FOR SCHOOL SIGNS

TYPICAL EXAMPLES



DEPARTMENTAL MATERIAL SPECIFICATIONS

ALUMINUM SIGN BLANKS DMS-7110

Square Ft.	Min.	Thickness
Less than 7.5	0.080	0.080
7.5 to 15	0.100	0.100
Greater than 15	0.125	0.125

SIGN FACE MATERIALS DMS-8300

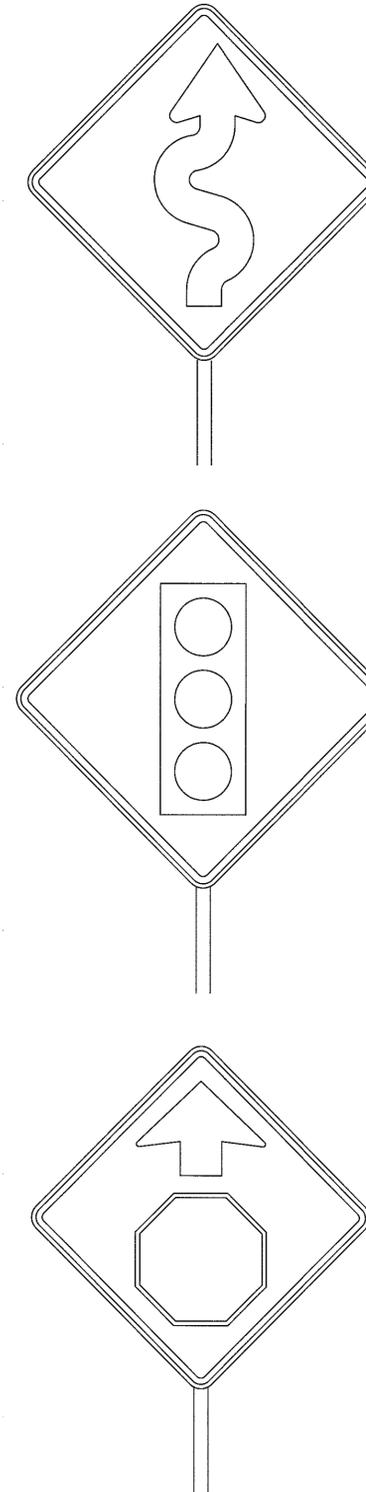
USAGE	COLOR	SIGN FACE MATERIAL
BACKGROUND	WHITE	TYPE C SHEETING
BACKGROUND	FLOR. YEL. GRN.	TYPE E SHEETING
LEGEND & BORDERS	BLACK	ACRYLIC NON-REFLECTIVE FILM

GENERAL NOTES:

1. Signs to be furnished shall be as detailed elsewhere in the plans and/or as shown on sign tabulation sheet. Standard sign designs and arrow dimensions can be found in the "Standard Highway Sign Designs for Texas" (SHSD).
2. School sign legend shall use the Federal Highway Administration (FHWA) Standard Highway Alphabets (B, C, D, E, Emod or F).
3. Lateral spacing between letters and numerals shall conform with the SHSD, and any approved changes thereto. Lateral spacing of legend shall provide a balanced appearance when spacing is not shown.
4. Black legend and borders shall be applied by screening process or cut-out acrylic non-reflective black film to background sheeting, or combination thereof.
5. Sign substrate shall be any material that meets the Departmental Material Specification requirements of DMS-7110.
6. Mounting details for roadside mounted signs are shown in the "SMD series" Standard Plan Sheets.

REQUIREMENTS FOR WARNING SIGNS

TYPICAL EXAMPLES



DEPARTMENTAL MATERIAL SPECIFICATIONS

ALUMINUM SIGN BLANKS DMS-7110

Square Ft.	Min.	Thickness
Less than 7.5	0.080	0.080
7.5 to 15	0.100	0.100
Greater than 15	0.125	0.125

SIGN FACE MATERIALS DMS-8300

USAGE	COLOR	SIGN FACE MATERIAL
BACKGROUND	YELLOW	TYPE E SHEETING
LEGEND & BORDERS	BLACK	ACRYLIC NON-REFLECTIVE FILM
LEGEND & SYMBOLS	ALL OTHER	TYPE D SHEETING

GENERAL NOTES:

1. Signs to be furnished shall be as detailed elsewhere in the plans and/or as shown on sign tabulation sheet. Standard sign designs and arrow dimensions can be found in the "Standard Highway Sign Designs for Texas" (SHSD).
2. Warning sign legend shall use the Federal Highway Administration (FHWA) Standard Highway Alphabets (B, C, D, E, Emod, or F).
3. Lateral spacing between letters and numerals shall conform with the SHSD, and any approved changes thereto. Lateral spacing of legend shall provide a balanced appearance when spacing is not shown.
4. Black legend and borders shall be applied by screening process or cut-out acrylic non-reflective black film to yellow background sheeting, or combination thereof.
5. Colored legend and symbols shall be applied by screening process with transparent colored ink, transparent colored overlay film, or colored sheeting to white sheeting, or combination thereof. The colored legend or symbols is then applied to the yellow background sheeting.
6. Sign substrate shall be any material that meets the Departmental Material Specification requirements of DMS-7110.
7. Mounting details for roadside mounted signs are shown in the "SMD series" Standard Plan Sheets.

The Standard Highway Sign Designs for Texas (SHSD) can be found at the following website.

<http://www.txdot.gov/publications/traffic.htm>



TYPICAL SIGN REQUIREMENTS

TSR(4)-08

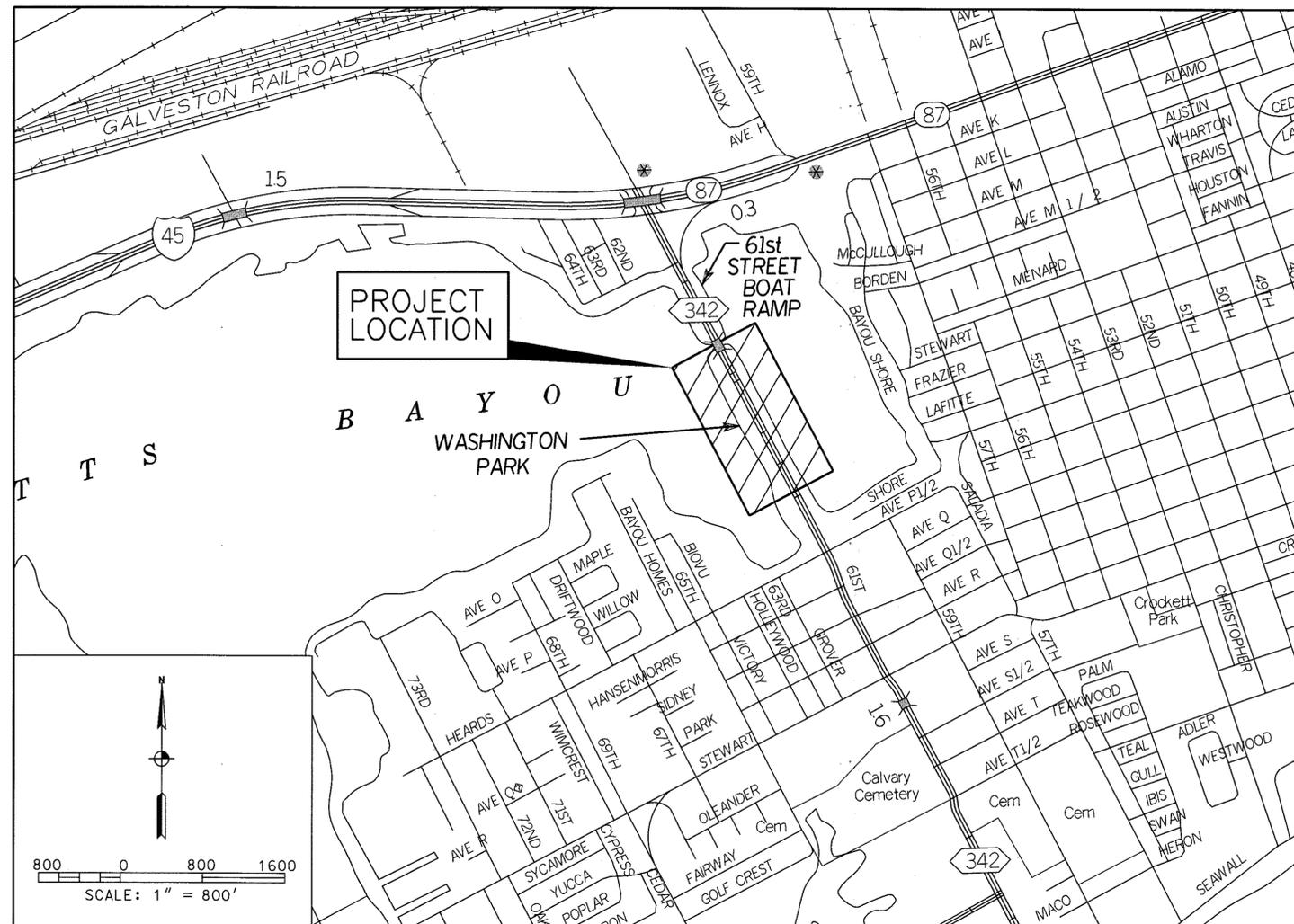
© TxDOT October 2003	DN: TXDOT	CK: TXDOT	DW: TXDOT	CK: TXDOT
REVISIONS	CONT	SECT	JOB	HIGHWAY
12-03				
9-08			COUNTY	SHEET NO.

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DATE:
FILE:

GALVESTON COUNTY DEPARTMENT OF PARKS & SENIOR SERVICES

PLANS FOR CONSTRUCTION OF Washington Park Recreational Area Galveston, Texas



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9 OF 35	PAVEMENT MARKINGS AND SIGNING FOR ACCESSIBLE PARKING PM(AP)-98
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16 OF 35	CROSS SECTIONS (SHEET 7 OF 7)
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18 OF 35	SHEETPILE BULKHEAD PLAN AND ELEVATION VIEW (SHEET 2 OF 2)
19 OF 35	SHEETPILE BULKHEAD DETAILS
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21 OF 35	FISHING PIER DETAILS
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24 OF 35	ELECTRICAL SITE PLAN
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34 OF 35	SIGN MOUNTING DETAILS - SMALL ROADSIDE SIGNS, TRIANGULAR SLIPBASE SYSTEM SMD(SLIP-3)-08
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AECOM

AECOM TECHNICAL SERVICES, INC.
5444 WESTHEIMER RD, SUITE 200
HOUSTON, TEXAS 77056
WWW.AECOM.COM
TBP REG. NO. F-3580

PROJECT NO. 60073413

APRIL 2015

SET NO. 2

SHEET 1 OF 35

NO.	DATE	REVISION	APPROV.
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GENERAL CONSTRUCTION NOTES

1. THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES TO THE EXISTING PUBLIC OR PRIVATE LINES, INCLUDING BUT NOT LIMITED TO WATER LINES, WASTEWATER COLLECTION SYSTEMS AND STORM SEWERS, DURING CONSTRUCTION. ALL DAMAGES SHALL BE REPAIRED TO SATISFACTION OF OWNER.
2. THE CONTRACTOR TO GIVE NOTICE TO ALL AUTHORIZED INSPECTORS, SUPERINTENDENTS, OR PERSONS IN CHARGE OF PRIVATE AND PUBLIC UTILITIES AFFECTED BY HIS OPERATIONS PRIOR TO COMMENCEMENT OF WORK.
3. THE CONTRACTOR TO OBTAIN ALL REQUIRED CONSTRUCTION PERMITS PRIOR TO COMMENCEMENT OF WORK. THE CONTRACTOR TO ASSURE HIMSELF THAT ALL CONSTRUCTION PERMITS HAVE BEEN OBTAINED PRIOR TO COMMENCEMENT OF WORK. REQUIRED PERMITS THAT CAN BE ISSUED ONLY TO CONTRACTOR TO BE OBTAINED AT HIS EXPENSE.
4. CONTRACTOR TO VERIFY LOCATION AND ELEVATION OF EXISTING FACILITIES PRIOR TO CONSTRUCTION OF PROPOSED FACILITIES.
5. CONTRACTOR WILL TAKE ALL DUE PRECAUTIONS TO PROTECT EXISTING FACILITIES FROM DAMAGE. ANY DAMAGE TO EXISTING FACILITIES INCURRED AS A RESULT OF CONSTRUCTION OPERATIONS WILL BE REPAIRED BY THE CONTRACTOR AT HIS OWN EXPENSE.
6. THESE PLANS, PREPARED BY AECOM USA GROUP, INC., DO NOT EXTEND TO INCLUDE DESIGN OF SYSTEMS PERTAINING TO THE SAFETY OF THE CONSTRUCTION CONTRACTOR OF ITS EMPLOYEES, AGENTS OR REPRESENTATIVES IN THE PERFORMANCE OF THE WORK. THE SEAL OF AECOM USA GROUP, INC.'S REGISTERED PROFESSIONAL ENGINEER(S) HEREON DOES NOT EXTEND TO ANY SUCH SAFETY SYSTEMS THAT MAY NOW OR HERE AFTER BE INCORPORATED IN THESE PLANS. THE CONSTRUCTION CONTRACTOR SHALL PREPARE OR OBTAIN THE APPROPRIATE SAFETY SYSTEMS, INCLUDING THE PLANS AND SPECIFICATIONS REQUIRED BY THE HOUSE BILLS 662 AND 665 ENACTED BY THE TEXAS LEGISLATURE IN THE 70TH LEGISLATURE - REGULAR SESSION.
7. CONTRACTOR SHALL NOTIFY THE FOLLOWING AGENCIES 48-HOURS PRIOR TO EXCAVATING NEAR FACILITIES:
 TEXAS-ONE CALL 1-800-245-4545
 LONE STAR NOTIFICATION CENTER (713) 223-4567
 GALVESTON COUNTY (409) 770-5554
 MIKE FITZGERALD
 LAYNE HARDING (409) 789-2217
8. CONTRACTOR TO COMPLY WITH ALL FEDERAL, STATE, AND LOCAL LAWS AND ALL REGULATIONS OF UTILITY COMPANIES CONCERNING SAFETY AND HEALTH PRACTICES.
9. CONTRACTOR TO LOCATE OVERHEAD LINE PRIOR TO BEGINNING ANY CONSTRUCTION AND COMPLY WITH ANY SPECIAL RESTRICTIONS. TEXAS LAW, SESSION 752, HEALTH & CODE, GOVERNING ANY ACTIVITIES WHICH MAY CAUSE PEOPLE OR OBJECTS TO APPROACH LIVE OVERHEAD HIGH VOLTAGE LINE BE STRICTLY ADHERED TO. CONTRACTOR AND OWNER'S ARE LEGALLY RESPONSIBLE FOR SAFETY OF CONSTRUCTION WORKERS UNDER THIS LAW. THIS LAW CARRIES BOTH CRIMINAL AND CIVIL LIABILITY.
10. IT IS AECOM'S UNDERSTANDING THAT THE VOLTAGE OF EXISTING PRIMARY OVERHEAD LINES ON THE WEST SIDE OF 61ST STREET IS 12 KV. IT IS THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE WITH CENTERPOINT ENERGY TO VERIFY OVERHEAD LINE VOLTAGES PRIOR TO CONSTRUCTION TO DETERMINE LINE CLEARANCE DISTANCES THAT NEED TO BE ADHERED TO DURING CONSTRUCTION.
11. CONTRACTOR RESPONSIBLE FOR REMOVING ALL EXISTING EQUIPMENT NECESSARY TO FACILITATE WORK.
12. CONTRACTOR RESPONSIBLE FOR REINSTALLING ANY EQUIPMENT REMOVED DURING CONSTRUCTION.
13. CONTRACTOR RESPONSIBLE FOR PROVIDING A FULLY FUNCTIONAL SYSTEM FOR WORK PERFORMED UNDER THIS CONTRACT.
14. ALL CONNECTION HARDWARE SHALL BE 304 OR 316 STAINLESS.
15. CONTRACTOR RESPONSIBLE FOR FURNISHING, INSTALLING, AND REMOVING TEMPORARY CONSTRUCTION FENCING USED TO SECURE THE JOB SITE. COST OF TEMPORARY CONSTRUCTION FENCING IS INCIDENTAL TO THE WORK.
16. ALL CONNECTION HARDWARE SHALL BE 304 OR 316 STAINLESS. IF HARDWARE FOR DOCK CONSTRUCTION IS NOT SPECIFICALLY CALLED FOR, IT IS THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE THE HARDWARE TO MEET A SALTWATER ENVIRONMENT AND TO PROPERLY INSTALL AND SECURE THE DOCK. COST FOR ALL HARDWARE IS INCIDENTAL TO THE BID ITEMS(S) TO WHICH THE WORK PERTAINS.



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NO.	DATE	REVISION	APPROV.

**GALVESTON COUNTY
WASHINGTON PARK**

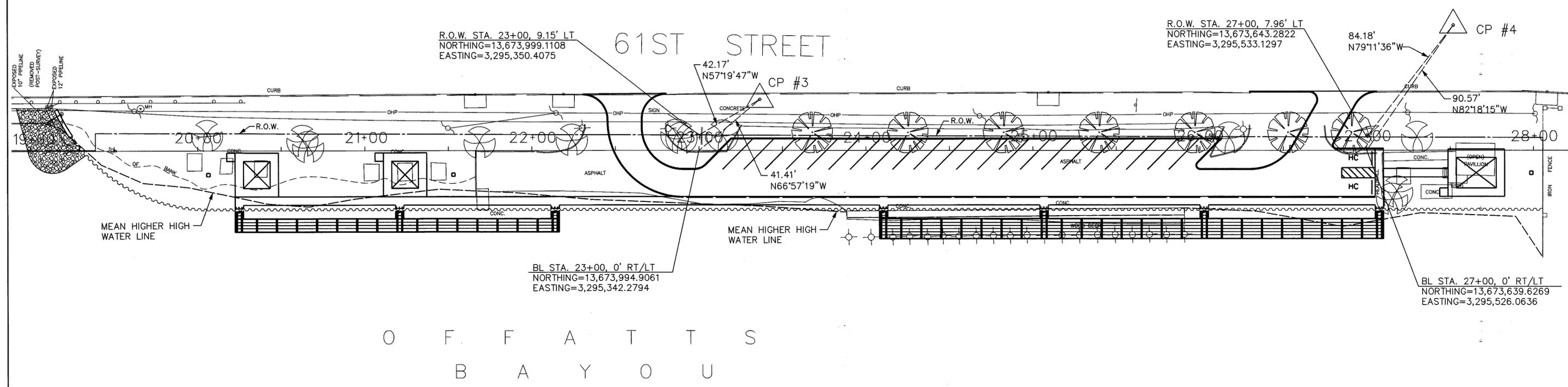
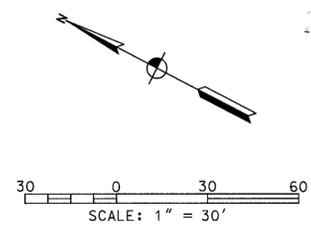
GENERAL CONSTRUCTION NOTES

AECOM

AECOM TECHNICAL SERVICES, INC.
 5444 WESTHEIMER RD, SUITE 200
 HOUSTON, TEXAS 77056
 WWW.AECOM.COM
 TBPE REG. NO. F-3580

Unit PUBLIC WORKS	Scale: N/A	Date APRIL 2015
Designed LNH	Checked WRB	Project No. 60073413
Drawn JS	Approved LNH	Sheet 2 of 35

SDATES
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O F F A T T S
B A Y O U

BENCHMARKS

CP #3 - SET COTTON SPINDAL FLUSH TOP
 3.0' EAST OF BACK OF CURB,
 38' SOUTH OF SIGN,
 116.5' SOUTH OF CURB INLET AND
 128.3' NORTH OF POWER POLE.
 NORTHING = 13674187.7
 EASTING = 3295794.476
 ELEV = 7.04.

CP #4 - SET 5/8" IR W/RED CAP
 5.3' WEST OF BACK OF CURB,
 5.3' EAST OF BACK OF CURB,
 28.5' SOUTH OF LIGHT POLE,
 23.5' NORTH OF WATER METER VALVE
 AND 37.3' NORTH OF EDGE OF CONCRETE.
 NORTHING = 13673838.85
 EASTING = 3296024.392
 ELEV = 7.81.

NOTES

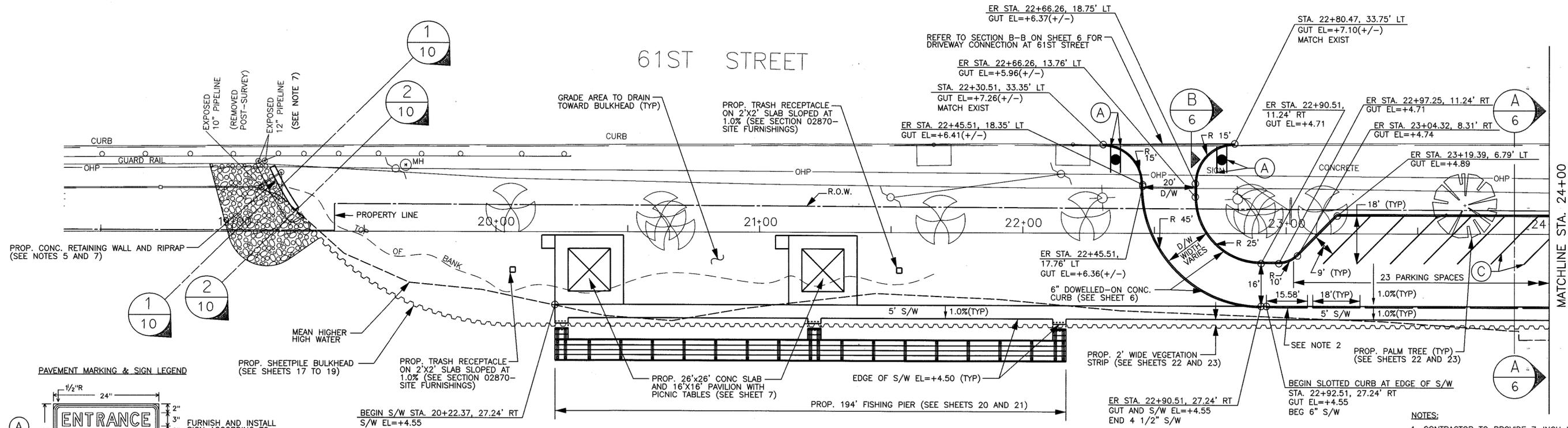
COORDINATES ARE REFERENCED TO NAD 83
 (1993 ADJUSTMENTS).
 ELEVATIONS ARE BASED ON NAVD 88 DATUM.



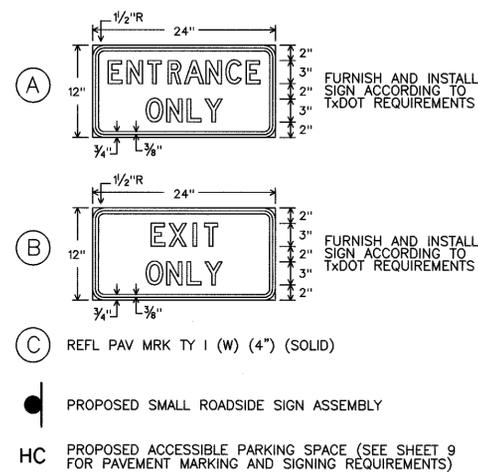
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NO.	DATE	REVISION	APPROV.		
GALVESTON COUNTY WASHINGTON PARK					
SURVEY CONTROL					
AECOM			AECOM TECHNICAL SERVICES, INC. 5444 WESTHEIMER RD, SUITE 200 HOUSTON, TEXAS 77056 WWW.AECOM.COM TBPE REG. NO. F-3580		
Unit	PUBLIC WORKS	Scale:	1"=30'	Date	APRIL 2015
Designed	LNH	Checked	WRB	Project No. 60073413	
Drawn	JS	Approved	LNH	Sheet 3 of 35	

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61ST STREET

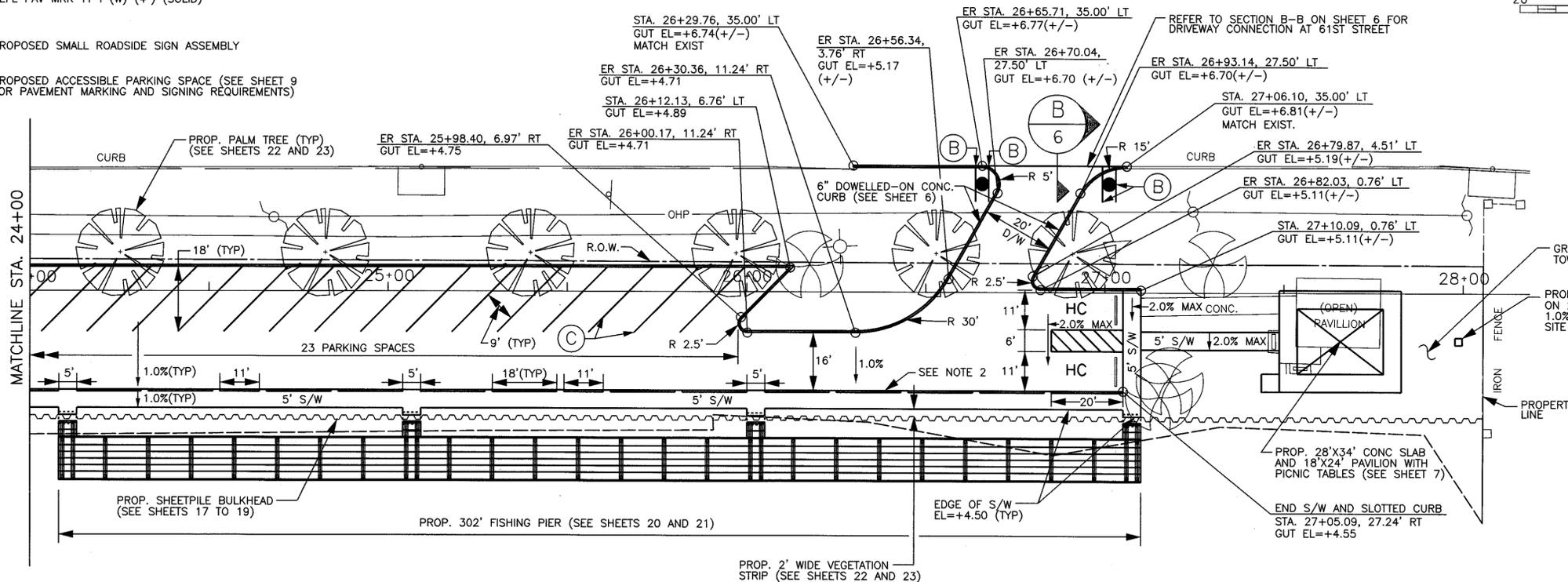
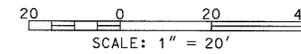


PAVEMENT MARKING & SIGN LEGEND



NOTES:

- CONTRACTOR TO PROVIDE 7-INCH HIGH BY 2-FOOT WIDE OPENING IN STEEL SHEETPILE, EVENLY SPACED AND NO MORE THAN 30 FEET ON CENTER, ALONG THE ENTIRE LENGTH OF THE BULKHEAD (SEE SECTION A-A/SHEET 6). EACH OPENING SHOULD BE CENTERED WITHIN A CONCRETE COPING SECTION (SEE DETAIL 1/SHEET 19).
- SLOTTED CURB SECTIONS ARE 18" LONG UNLESS OTHERWISE SHOWN. GAPS BETWEEN SLOTTED CURB SECTIONS ARE 2" LONG UNLESS OTHERWISE SHOWN.
- CONTRACTOR SHALL PROVIDE A SMOOTH PAVEMENT TRANSITION FROM EDGE OF DRIVEWAY AT 61ST STREET TO 16' AISLE/BEGINNING OF PARKING LOT.
- SEE SHEETS 24 TO 26 FOR PROPOSED ELECTRICAL WORK, INCLUDING INSTALLATION OF LIGHT POLES, ELECTRICAL EQUIPMENT ENCLOSURE AND UNDERGROUND CONDUIT.
- CONTRACTOR TO INSTALL CONCRETE RETAINING WALL AND RIPRAP SLOPE PROTECTION AS SHOWN ON SECTIONS 1-1 AND 2-2 ON SHEET 10 AND AS DETAILED ON SHEET 7. RIPRAP CROWN SHALL BE EXTENDED SOUTHWEST 4' MINIMUM TO OVERLAP ADJACENT SHEETPILE BULKHEAD AND SHALL SLOPE DOWN AT 3:1 TO MEET EXISTING BAYOU BOTTOM.
- CONTRACTOR TO GRADE PROJECT AREA TO DRAIN TOWARD BULKHEAD.
- CONTRACTOR TO USE EXTREME CAUTION WHEN PERFORMING WORK ALONG 61ST STREET SLOPED PAVEMENT TO AVOID DAMAGE TO EXISTING 12" WATERLINE AND ANY OTHER EXISTING UTILITIES.



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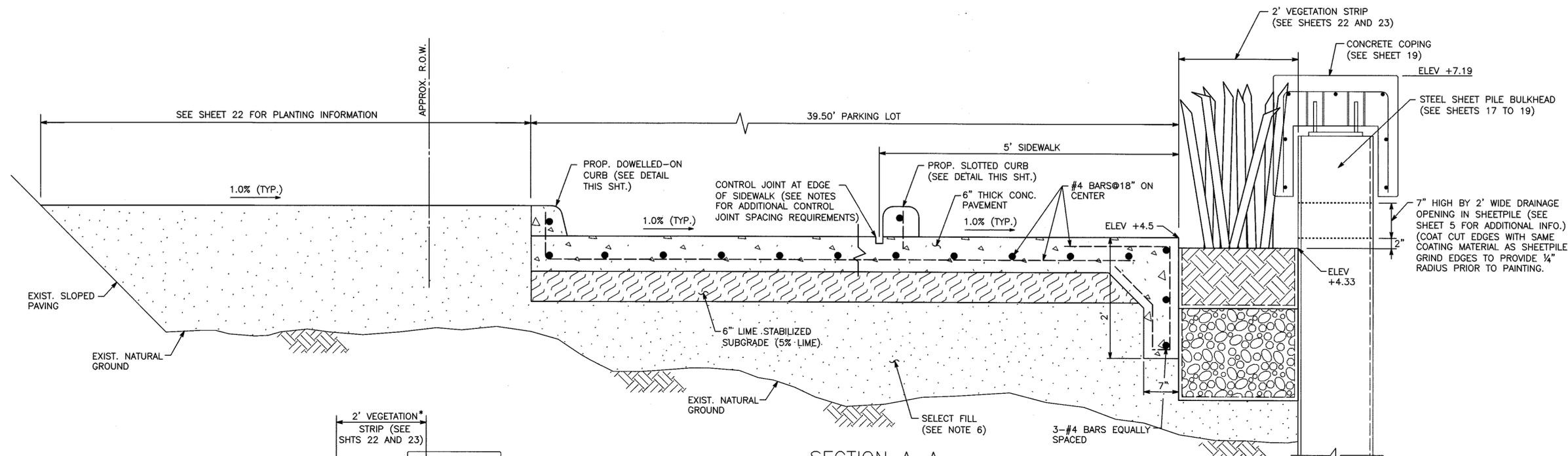
GALVESTON COUNTY
WASHINGTON PARK

PAVING AND DRAINAGE LAYOUT

AECOM

AECOM TECHNICAL SERVICES, INC.
5444 WESTHEIMER RD., SUITE 200
HOUSTON, TEXAS 77056
WWW.AECOM.COM
TBPE REG. NO. F-3580

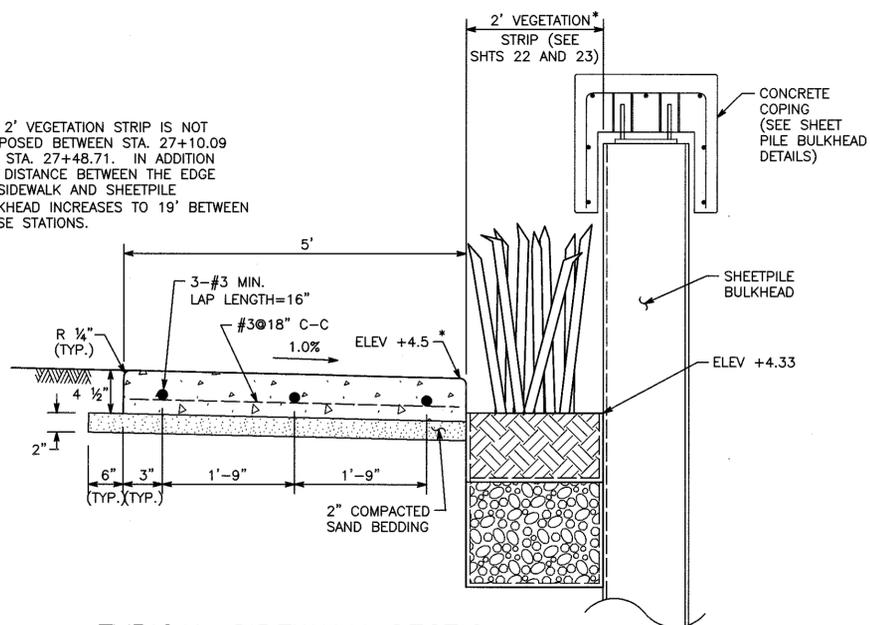
Unit	Scale	Date
PUBLIC WORKS	1"=20'	APRIL 2015
Designed LNH	Checked WRB	Project No. 60073413
Drawn JS	Approved LNH	Sheet 5 of 35



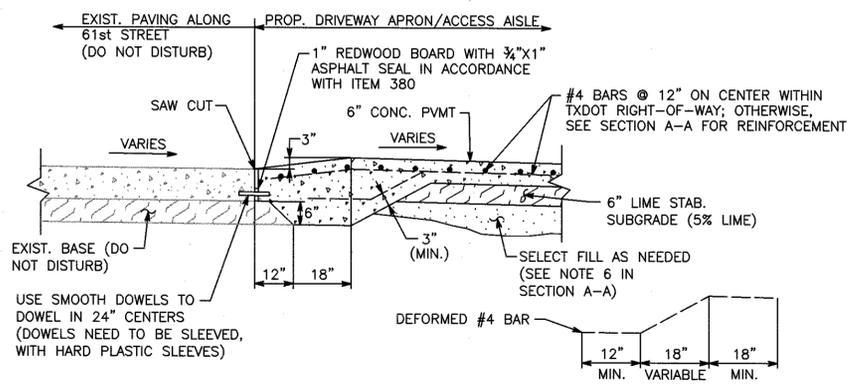
- NOTES:**
1. REINFORCING STEEL SHOULD CONSIST OF #4 BARS SPACED AT 18 INCHES ON CENTER.
 2. EXPANSION JOINTS SHOULD BE PLACED EVERY 75 FEET MAXIMUM, EVENLY.
 3. CONTROL JOINTS SHOULD BE PLACED EVERY 15 FEET MAXIMUM, EVENLY.
 4. DOWELS AT EXPANSION JOINTS SHOULD BE SPACED EVERY 14-INCHES ON CENTER AND CONSIST OF 3/4-INCH DIAMETER, 14 INCHES LONG WITH 6-INCH EMBEDMENT.
 5. REFER TO SHEET 5 FOR DRAINAGE INFORMATION.
 6. SELECT FILL SHOULD BE COMPOSED OF CLEAN LEAN CLAY, SANDY LEAN CLAY, OR CLAYEY SAND SOILS WITH A PLASTICITY INDEX RANGING BETWEEN 10 AND 20 PERCENT. SELECT FILL SHOULD BE PLACED ON PREPARED SURFACES IN LIFTS NOT TO EXCEED 8 INCHES LOOSE MEASURE, WITH COMPACTED THICKNESS NOT TO EXCEED 6 INCHES. SELECT FILL SHOULD BE COMPACTED TO AT LEAST 95 PERCENT OF THE STANDARD EFFORT (ASTM D 698) MAXIMUM DRY DENSITY AT A MOISTURE CONTENT WITHIN 2 PERCENT OF THE OPTIMUM MOISTURE CONTENT.

SECTION A-A
SCALE: 1"=1'

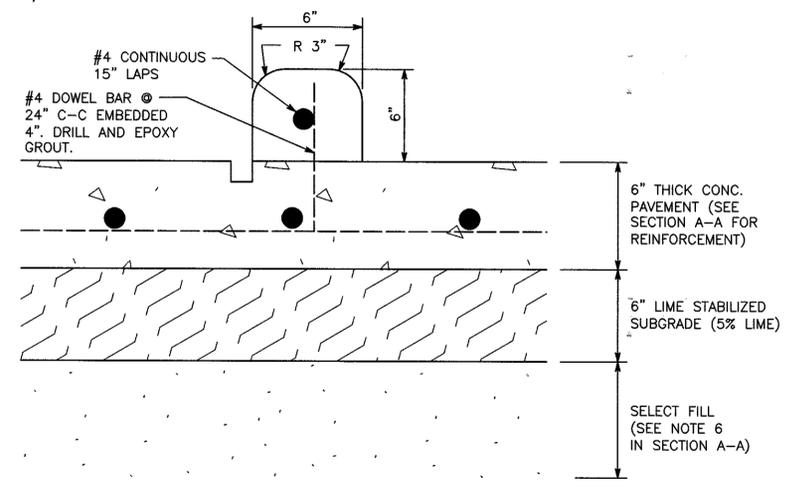
*THE 2' VEGETATION STRIP IS NOT PROPOSED BETWEEN STA. 27+10.09 AND STA. 27+48.71. IN ADDITION THE DISTANCE BETWEEN THE EDGE OF SIDEWALK AND SHEETPILE BULKHEAD INCREASES TO 19' BETWEEN THOSE STATIONS.



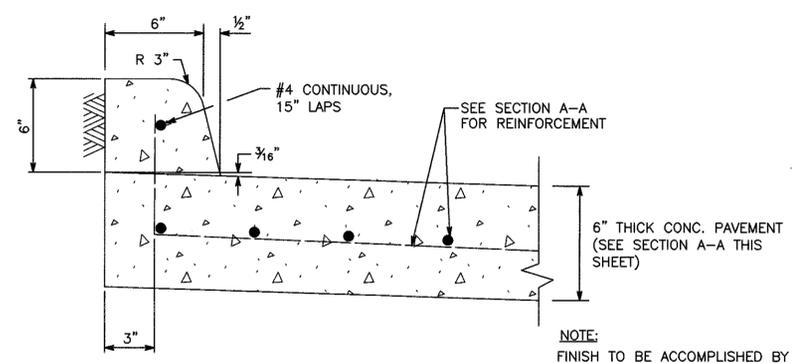
TYPICAL SIDEWALK SECTION
(FROM STA. 20+22.37 TO STA. 22+83.78 AND FROM STA. 27+10.09 TO STA. 27+48.71)*
SCALE: NTS



SECTION B-B
SCALE: NTS

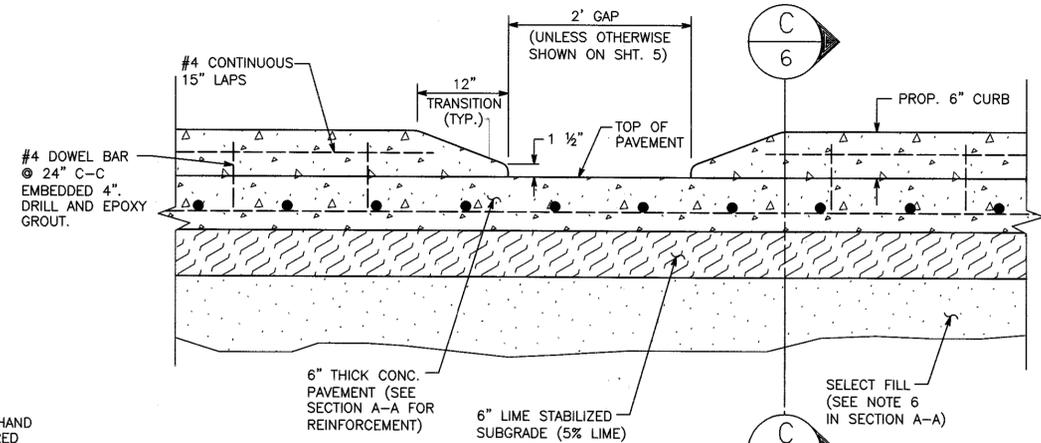


SECTION C-C
SCALE: 1"=1/2'



DOWELLED-ON CURB DETAIL
SCALE: NTS

NOTE:
FINISH TO BE ACCOMPLISHED BY FLOATING, STEEL TROWELLING AND THEN BRUSHING. HAND FINISH NOT REQUIRED WHEN CURB IS POURED BY A MACHINE, BUT CURB WILL HAVE THE SAME OUTSIDE DIMENSIONS, AND HAVE A BRUSHED FINISH.

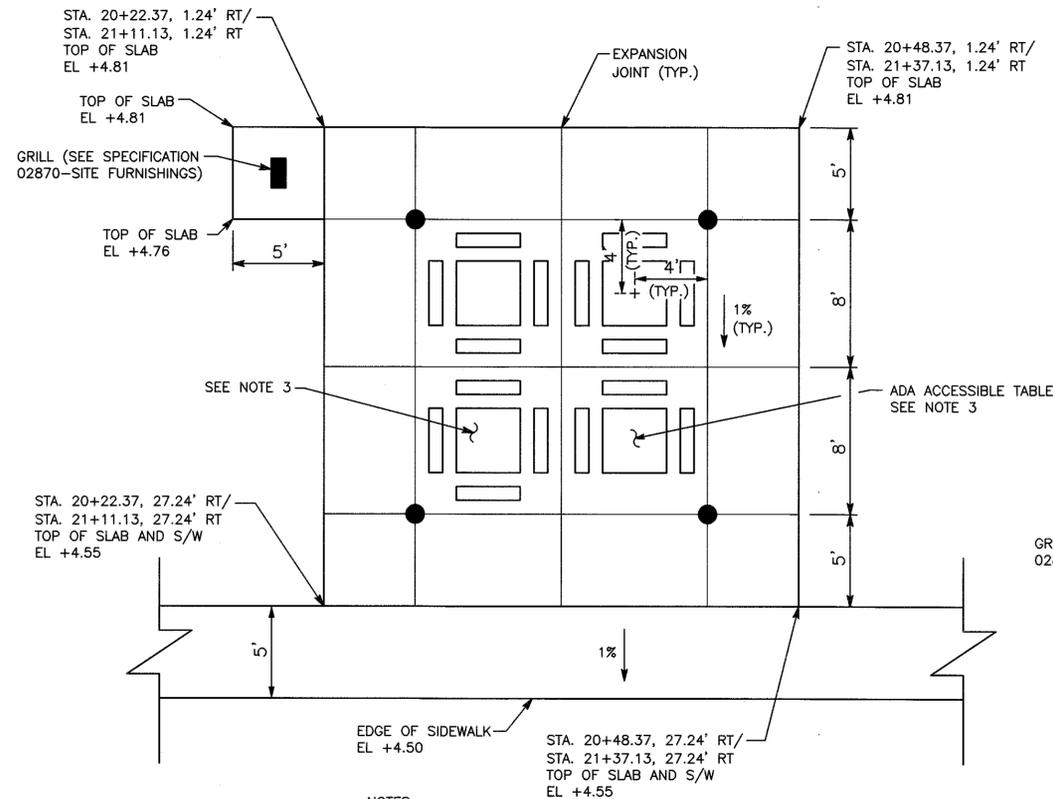


SLOTTED CURB DETAIL
SCALE: 1"=1'



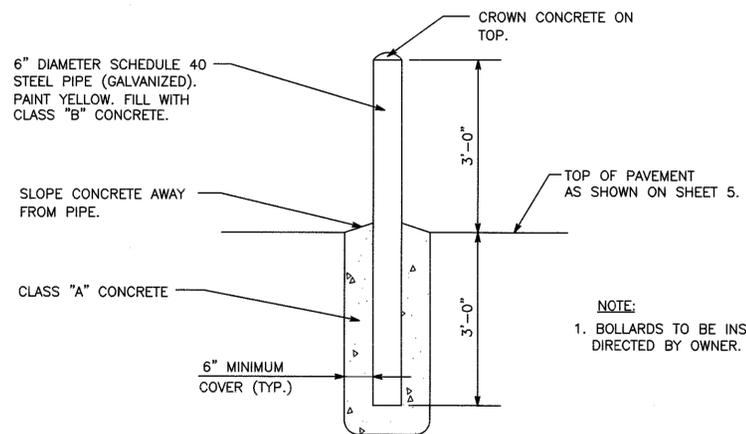
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NO.	DATE	REVISION	APPROV.
GALVESTON COUNTY WASHINGTON PARK			
PAVING, DRAINAGE, AND MISCELLANEOUS DETAILS (SHEET 1 OF 2)			
AECOM		AECOM TECHNICAL SERVICES, INC. 5444 WESTHEIMER RD., SUITE 200 HOUSTON, TEXAS 77056 WWW.AECOM.COM TBP REG. NO. F-3580	
Unit	PUBLIC WORKS	Scale:	AS SHOWN
Designed	LNH	Checked	WRB: WB
Drawn	JS	Approved	LNH
Date	APRIL 2015	Project No.	60073413
Sheet	6	of	35

SDATES: SFLES

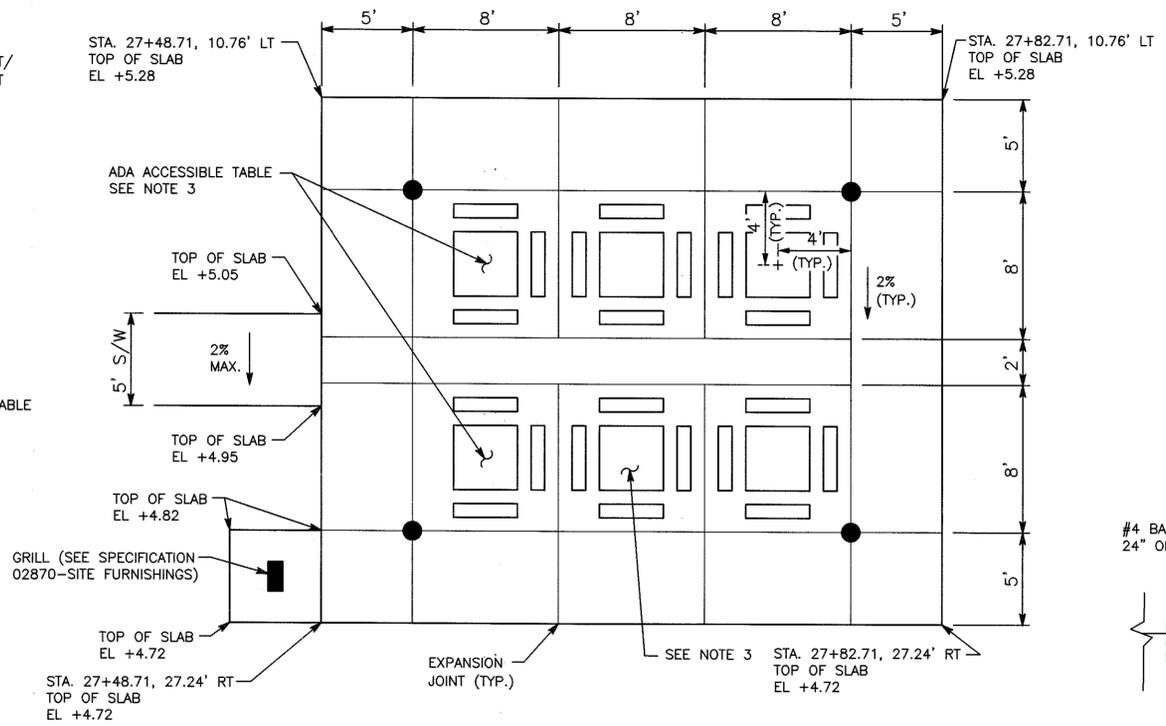


- NOTES:**
- PICNIC PAVILION TO BE 16'X16' PITTSBURG SHELTER AS PER SPECIFICATION 02870-SITE FURNISHINGS.
 - BACKFILL AROUND PAVILION WITH SAND TO WITHIN 1" FROM TOP OF SLAB.
 - PICNIC TABLE TO BE ALUMINUM AS PER SPECIFICATION 02870-SITE FURNISHINGS. PROVIDE 1 ADA ACCESSIBLE TABLE AS SHOWN.

SQUARE PAVILION DETAIL
 (STA. 20+22 TO STA. 20+49 AND STA. 21+11 TO STA. 21+38)
 SCALE: N.T.S.

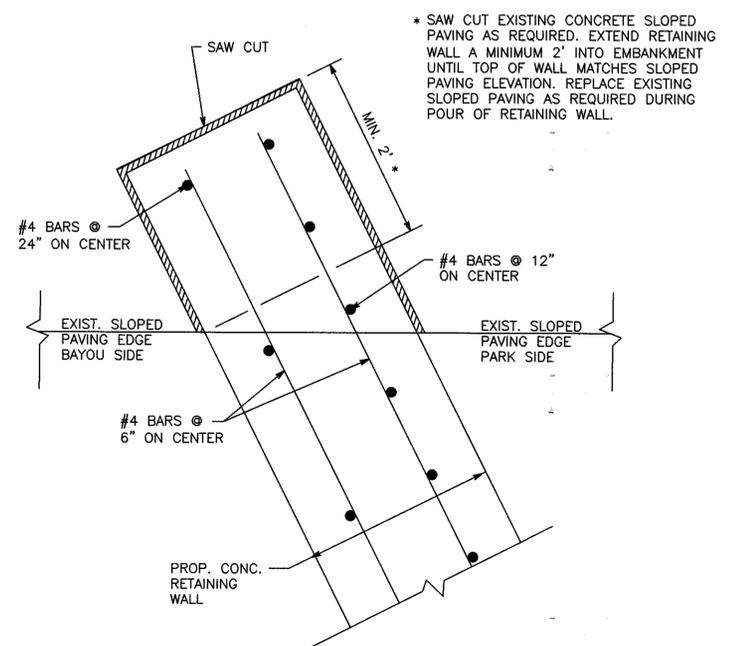


STEEL PIPE BOLLARD DETAIL
 SCALE: NTS

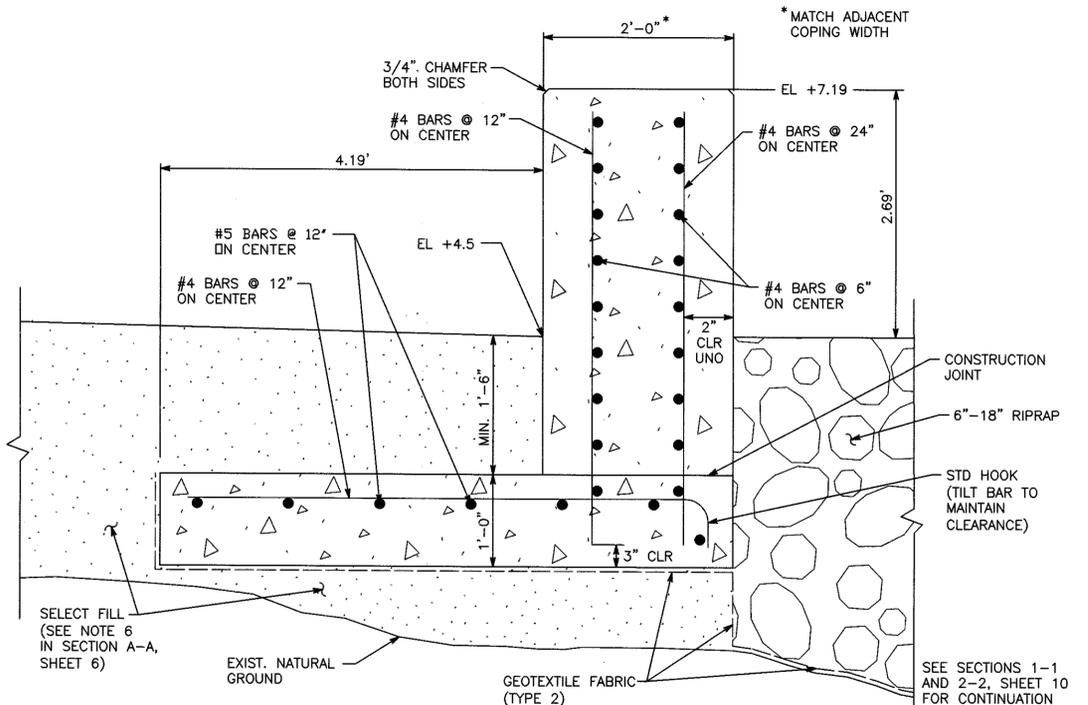


- NOTES:**
- PICNIC PAVILION TO BE 18'X24' PITTSBURG SHELTER AS PER SPECIFICATION 02870-SITE FURNISHINGS.
 - BACKFILL AROUND PAVILION WITH SAND TO WITHIN 1" FROM TOP OF SLAB.
 - PICNIC TABLE TO BE ALUMINUM AS PER SPECIFICATION 02870-SITE FURNISHINGS. PROVIDE 2 ADA ACCESSIBLE TABLES AS SHOWN.

LARGE PAVILION DETAIL
 (STA. 27+48 TO STA. 27+83)
 SCALE: N.T.S.



NORTH CLOSURE DETAIL
RETAINING WALL PLAN VIEW
 SCALE: NTS

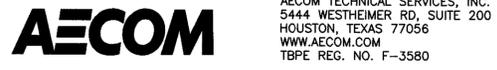


CONCRETE RETAINING WALL DETAIL
 SCALE: NTS



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NO.	DATE	REVISION	APPROV.

GALVESTON COUNTY
WASHINGTON PARK
 PAVING, DRAINAGE, AND MISCELLANEOUS
 DETAILS (SHEET 2 OF 2)

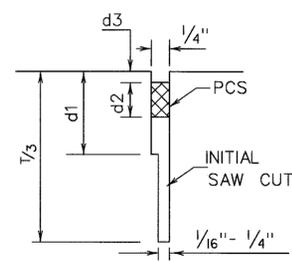


Unit	PUBLIC WORKS	Scale:	AS SHOWN	Date	APRIL 2015
Designed	LNH	Checked	WRB	Project No.	60073413
Drawn	JS	Approved	LNH	Sheet	7 of 35

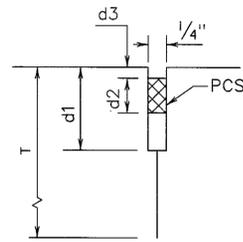
SDATL\$ SFIL\$

DISCLAIMER : The use of this standard is governed by the Texas Engineering Practice Act. No warranty of any kind is made by TxDOT for any purpose whatsoever. TxDOT assumes no responsibility for the conversion of this standard to other formats or for incorrect results or damages resulting from its use.

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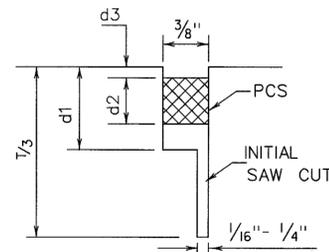


SAWED LONGITUDINAL JOINT

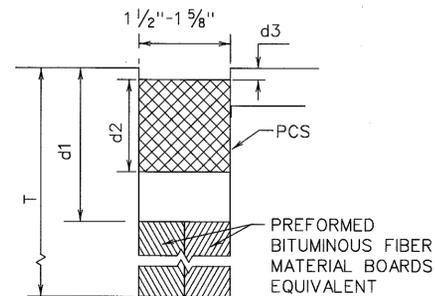


LONGITUDINAL CONSTRUCTION JOINT

LONGITUDINAL JOINT SEALS



SAWED CONTRACTION JOINT



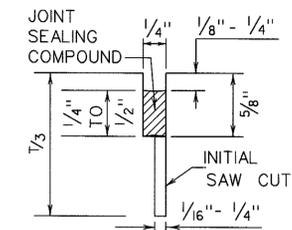
FORMED FORMED EXPANSION JOINT

TRANSVERSE JOINT SEALS

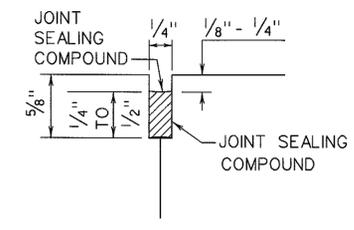
METHOD A: PREFORMED COMPRESSION SEALS (PCS)
 (CLASS 6 PREFORMED JOINT SEALANT)

GENERAL NOTES FOR METHOD "A"

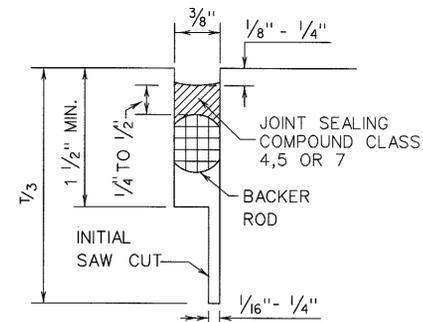
- UNLESS OTHERWISE SHOWN IN THE PLANS, EITHER METHOD "A" OR METHOD "B" MAY BE USED.
- THE LOCATION OF JOINTS SHALL BE AS SHOWN ELSEWHERE IN THE PLANS.
- DIMENSIONS d1, d2, AND d3 SHALL BE IN ACCORDANCE WITH THE PREFORMED COMPRESSION SEAL MANUFACTURERS RECOMMENDATION.
- THE JOINT RESERVOIR FOR SEALANT SHALL BE SAWED UNLESS OTHERWISE SHOWN ON THE PLANS FOR THE LONGITUDINAL AND TRANSVERSE CONSTRUCTION AND THE TWO SAWED JOINTS.
- THE JOINTS SHALL BE CLEANED IN ACCORDANCE WITH THE ITEM 438 AND PRIOR TO BEGINNING OPERATIONS, THE CONTRACTOR SHALL SUBMIT A STATEMENT FROM THE SEALANT MANUFACTURER SHOWING THE RECOMMENDED EQUIPMENT AND INSTALLATION PROCEDURES TO BE USED.
- THE SAW CUT FOR THE LONGITUDINAL JOINT SHALL BE ONE FOURTH THE SLAB THICKNESS WHEN CRUSHED LIMESTONE IS USED AS THE COARSE AGGREGATE.



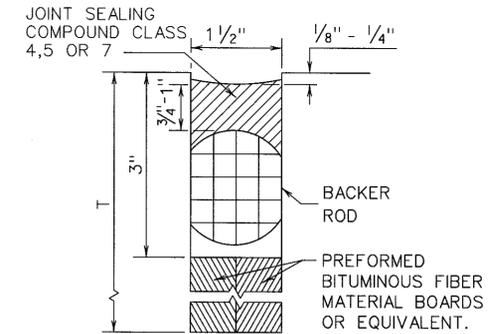
SAWED LONGITUDINAL JOINT



LONGITUDINAL OR TRANSVERSE CONSTRUCTION JOINT



TRANSVERSE SAWED CONTRACTION JOINT



TRANSVERSE FORMED EXPANSION JOINT

METHOD B: JOINT SEALING COMPOUND

GENERAL NOTES FOR METHOD "B"

- UNLESS OTHERWISE SHOWN IN THE PLANS, EITHER METHOD "A" OR METHOD "B" MAY BE USED.
- THE LOCATION OF JOINTS SHALL BE AS SHOWN ELSEWHERE IN THE PLANS.
- THE ENGINEER SHALL SELECT A TARGET PLACEMENT THICKNESS FOR THE SEALANT DETAILS WHICH SHOW RANGES IN THICKNESS. THE TARGET THICKNESS WILL NORMALLY BE THE MIDPOINT OF THE RANGE.
- THE JOINT RESERVOIR FOR SEALANT SHALL BE SAWED UNLESS OTHERWISE SHOWN ON THE PLANS FOR THE LONGITUDINAL AND TRANSVERSE CONSTRUCTION AND THE TWO SAWED JOINTS.
- THE JOINTS SHALL BE CLEANED IN ACCORDANCE WITH THE ITEM 438 AND PRIOR TO BEGINNING OPERATIONS, THE CONTRACTOR SHALL SUBMIT A STATEMENT FROM THE SEALANT MANUFACTURER SHOWING THE RECOMMENDED EQUIPMENT AND INSTALLATION PROCEDURES TO BE USED.
- THE SAW CUT FOR THE LONGITUDINAL JOINT SHALL BE ONE FOURTH THE SLAB THICKNESS WHEN CRUSHED LIMESTONE IS USED AS THE COARSE AGGREGATE.

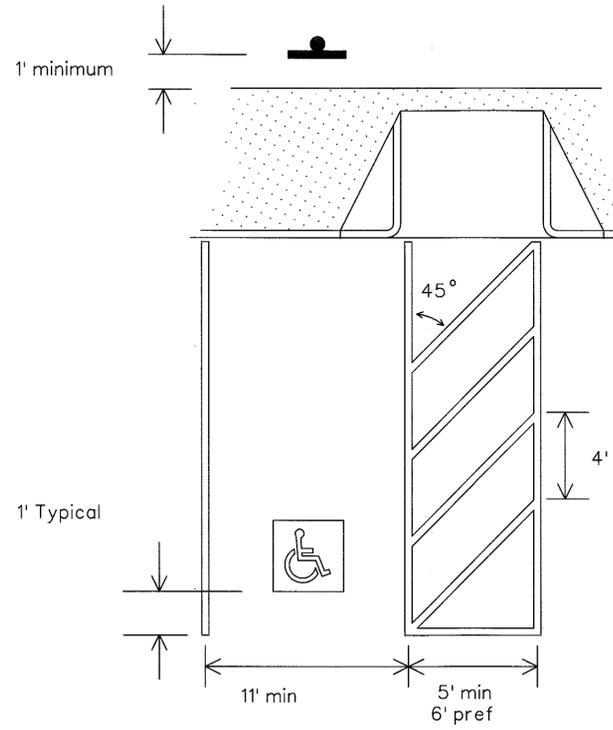
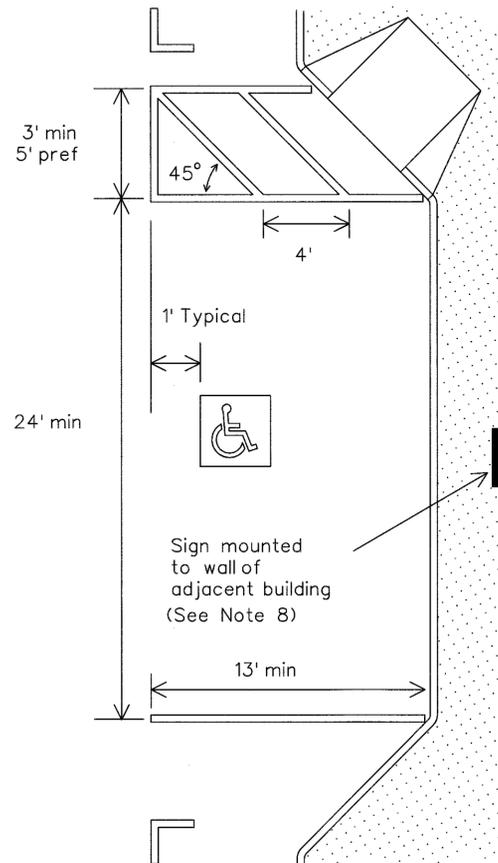
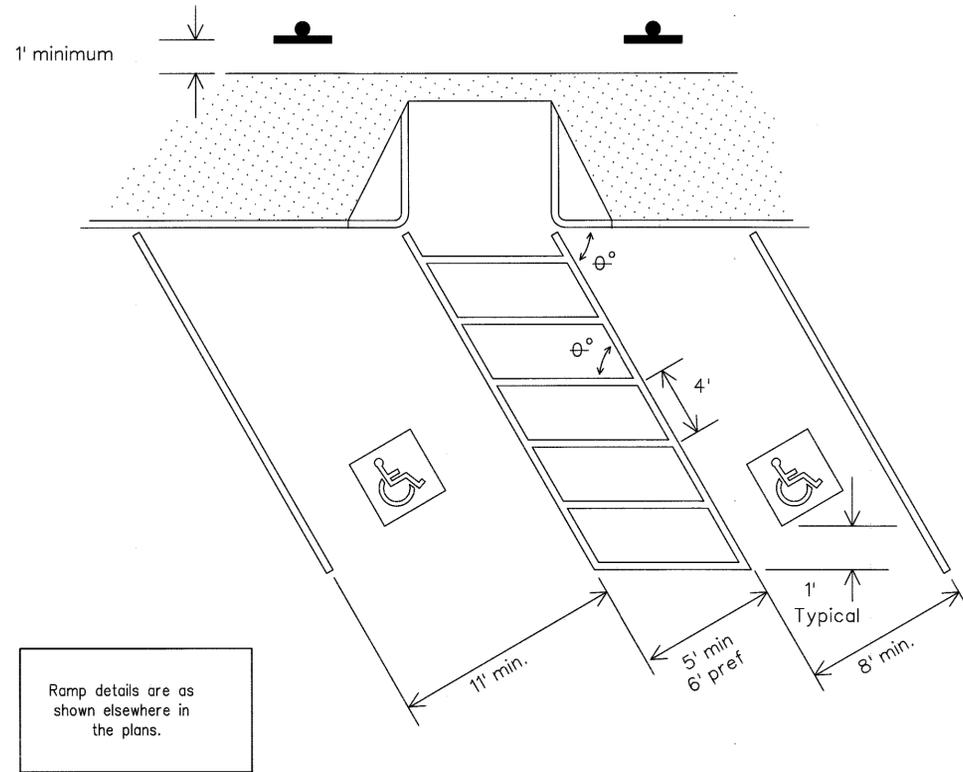
Texas Department of Transportation
 Construction Division (Pavement)

CONCRETE PAVING DETAILS
 JOINT SEALS

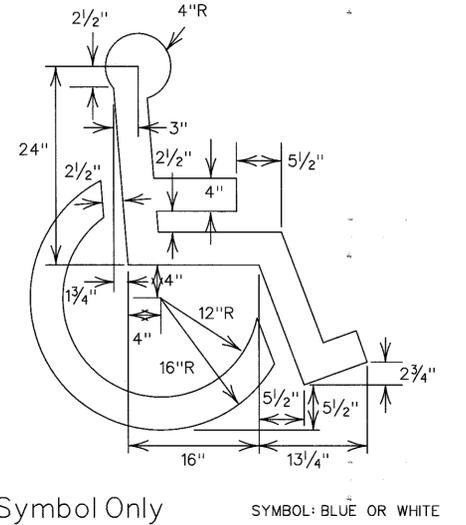
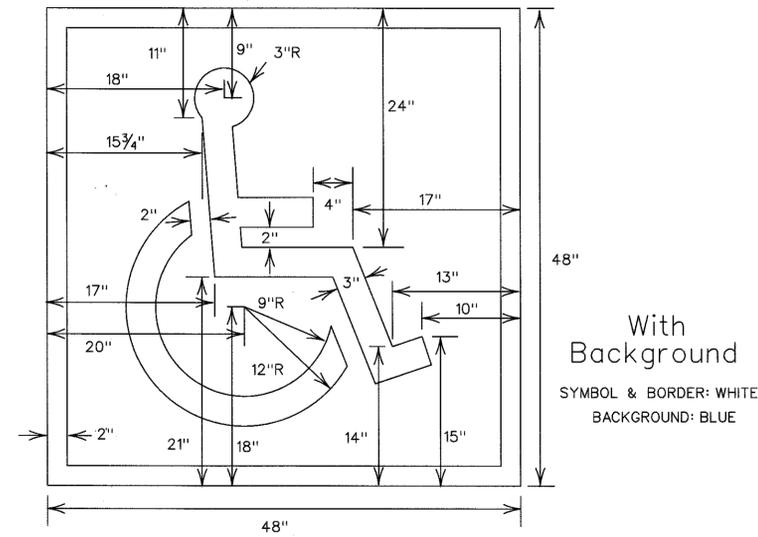
JS-94

© TxDOT SEPTEMBER 1994	DN: LJB	CK: LJB	DW: BGD	CK: GLG	
MODIFICATIONS	DISTRICT	FEDERAL AID PROJECT		SHEET	
	COUNTY	CONTROL SECTION	JOB	HIGHWAY	

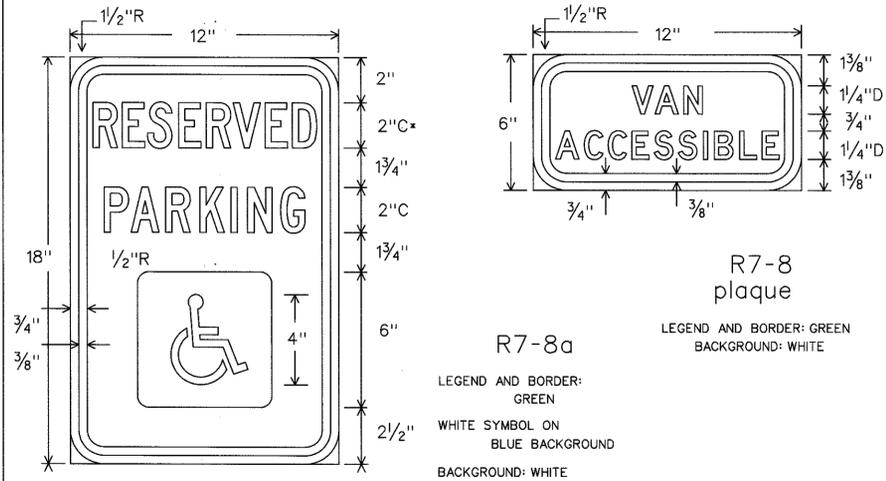
TYPICAL ACCESSIBLE PARKING SPACE DIMENSIONS



PAVEMENT MARKINGS



HANDICAPPED PARKING SIGN



SPECIFICATION REFERENCE TABLE	
MATERIALS AND TESTS DIVISION SPECIFICATIONS	D-9-7110
ALUMINUM SIGN BLANKS	
REFLECTIVE SHEETING, TYPE C (HIGH SPECIFIC INTENSITY)	D-9-8300

GENERAL SIGN NOTES:

The Alphabets and lateral spacing between letters and numerals shall conform with the Texas "Manual on Uniform Traffic Control Devices for Streets and Highways", latest edition, and any approved changes thereto. Lateral spacing of text shall provide a balanced appearance. All materials shall conform to Department Specifications.

Legend shall be applied by screening process of black and/or transparent colored ink, cut-out black vinyl non-reflective decal sheeting and/or reflective sheeting or combination thereof. Background shall be white reflective sheeting (Type C).

Sign blanks shall be one piece 0.08 inch thick sheet aluminum alloy (Type A), unless otherwise noted elsewhere in the plans.

GENERAL NOTES:

- All parking space limit lines shall be 4" solid white lines.
- Aisle markings shown are examples only. Other methods to indicate a NO PARKING area are acceptable. Aisle markings shall be white.
- Dimensions of limit lines, aisle markings, and symbol (with or without background) may vary + 10%.
- Pavement marking symbols (with background):
 - are REQUIRED unless stated elsewhere in the plans,
 - should be placed toward the far end of the parking spaces so as to be visible to motorists in the travel lane,
 - may be painted or prefabricated material, and
 - shall be 30" x 30" minimum.
- With approval of the Engineer, prefabricated pavement marking symbols with background of other dimensions exceeding the 30" x 30" minimum may be used. Alternative designs shall include a proportion sized symbol of accessibility, and shall conform to the illustrated colors for background, symbol and border.
- An R7-8 sign:
 - shall be REQUIRED for each accessible parking space,
 - shall NOT be placed between two accessible parking spaces,
 - shall NOT be placed in a location that restricts movement of wheelchairs within the adjacent sidewalk, and
 - shall have a minimum mounting height of 7 feet. If mounted to wall or located so as not to be near pedestrian traffic minimum mounting height may be 7 feet.
- Post mounted signs should be placed approximately 1 foot (or greater) behind the curb to prevent damage from vehicle overhang.
- Signs may be mounted directly to an adjacent wall of a building when post mounting is impractical.

STANDARD PLANS
TEXAS DEPARTMENT OF TRANSPORTATION
Traffic Operations Division

PAVEMENT MARKINGS AND SIGNING FOR ACCESSIBLE PARKING

PM(AP)-98

REVISIONS	DATE	BY	CHK'D	APP'D	FILE NO.
4-98					

STATE DISTRICT	FEDERAL REGION	FEDERAL AID PROJECT	SHEET
6			9 OF 30

COUNTY	CONTROL SECTION	JOB	HIGHWAY

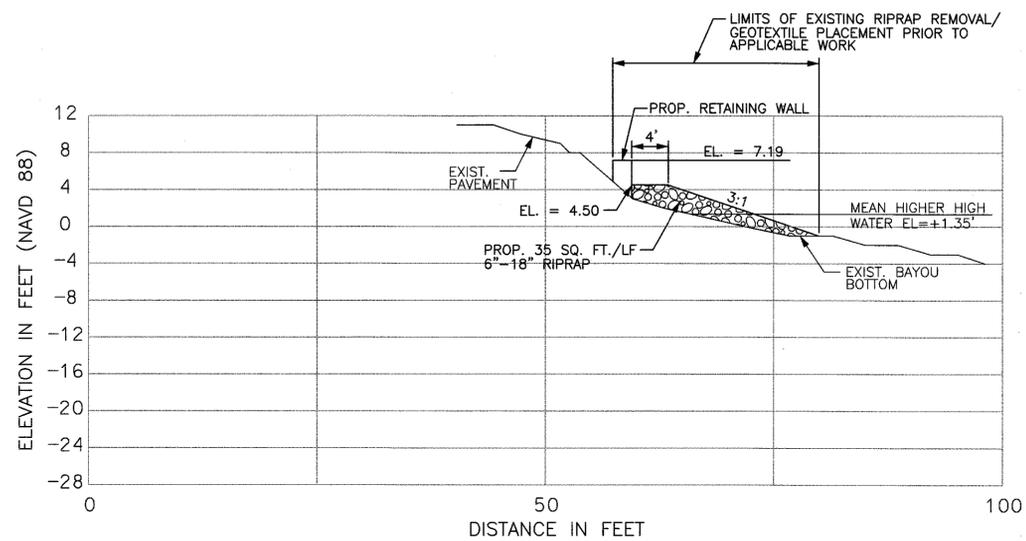
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CK:MT

LEVELS: DISPLAYED

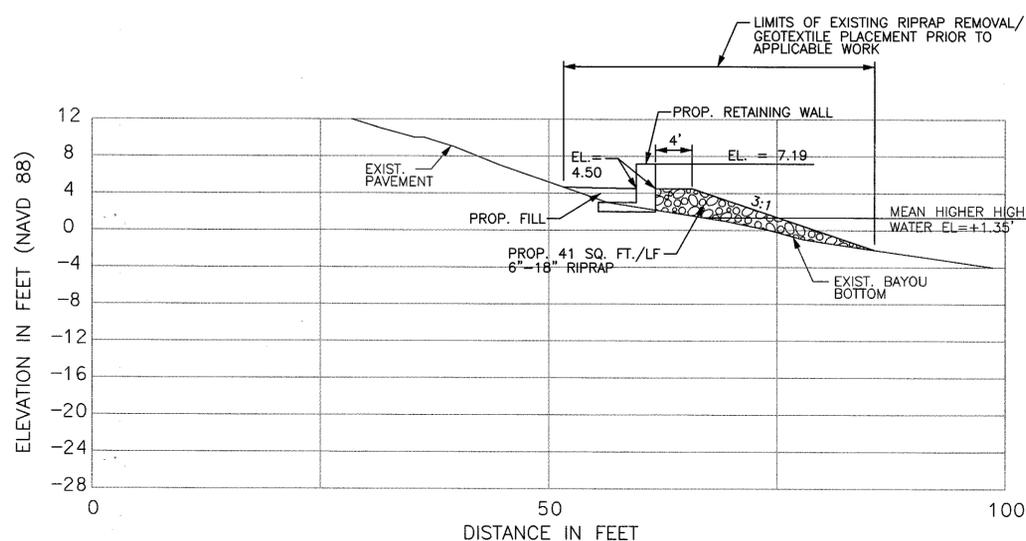
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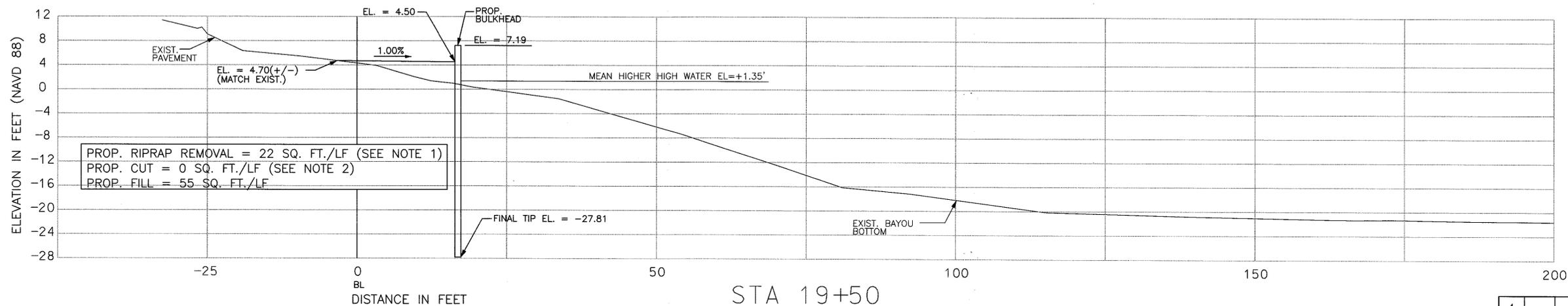
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SECTION 1-1



SECTION 2-2



STA 19+50

NOTES:

1. RIPRAP REMOVAL INVOLVES REMOVAL OF ALL EXISTING RIPRAP SHORE PROTECTION WITHIN THE PARK AREA UP TO THE BULKHEAD AND AN ADDITIONAL 15 FEET OF REMOVAL FROM THE BULKHEAD OUT INTO THE BAYOU IN AREAS WHERE PROPOSED FISHING PIER IS TO BE INSTALLED. RIPRAP REMOVAL ASSUMES REMOVING 18 INCHES OF EXISTING RIPRAP SHORE PROTECTION OVER THE ENTIRE AREA TO BE REMOVED.
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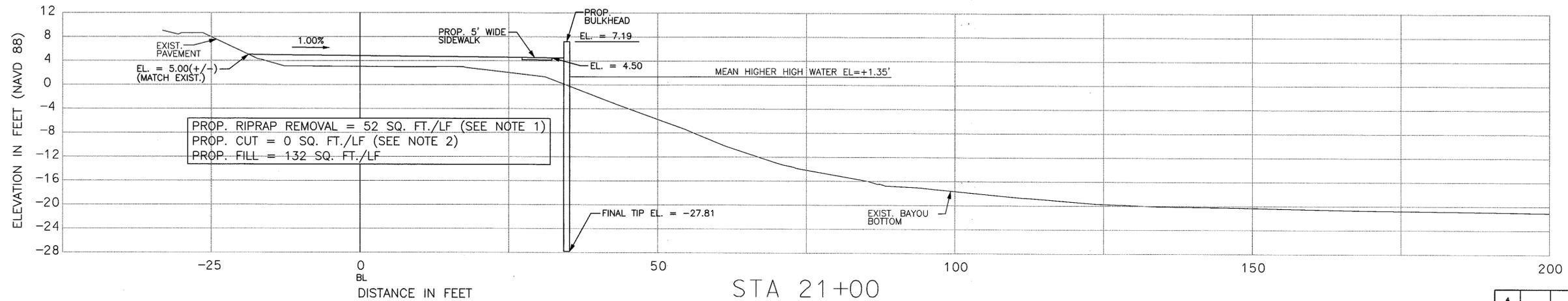
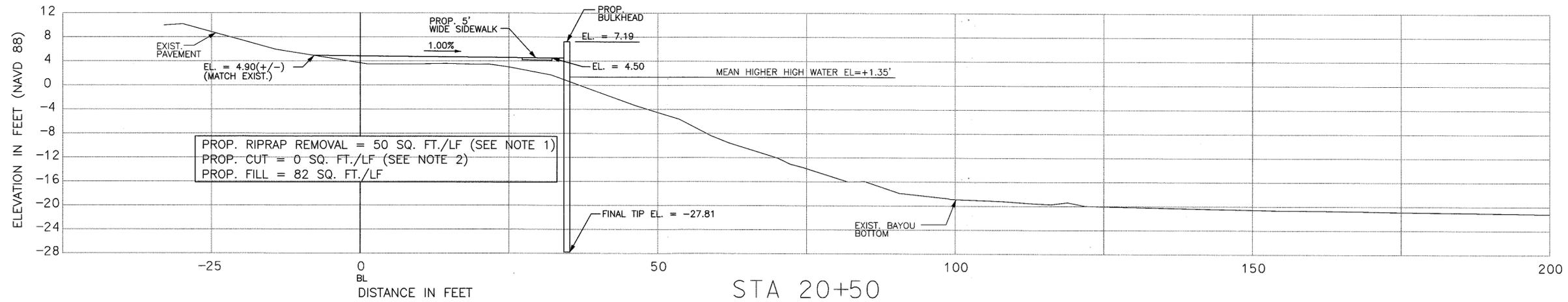
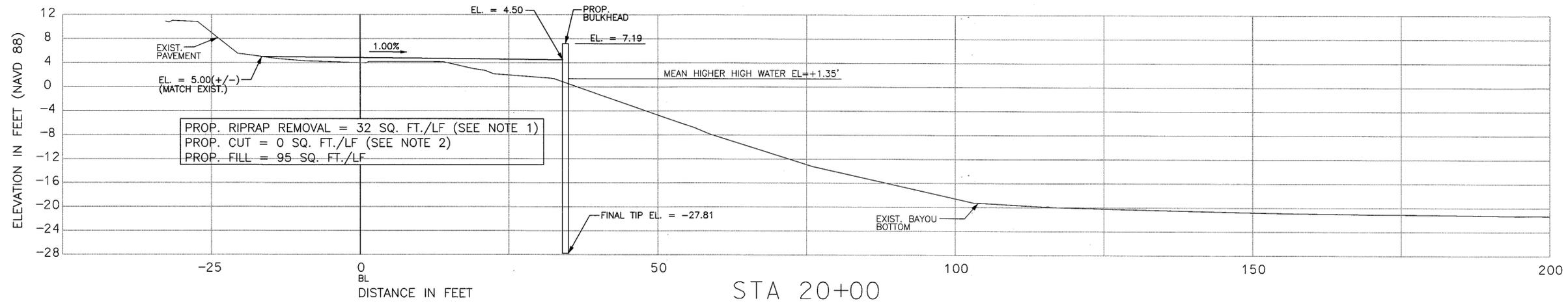
GALVESTON COUNTY
WASHINGTON PARK

CROSS SECTIONS
(SHEET 1 OF 7)



AECOM TECHNICAL SERVICES, INC.
5444 WESTHEIMER RD, SUITE 200
HOUSTON, TEXAS 77056
WWW.AECOM.COM
TBPE REG. NO. F-3580

Unit	PUBLIC WORKS	Scale:	H & V 1"=10'	Date	APRIL 2015
Designed	LNH	Checked	WRB	Project No.	60073413
Drawn	JS	Approved	LNH	Sheet	10 of 35



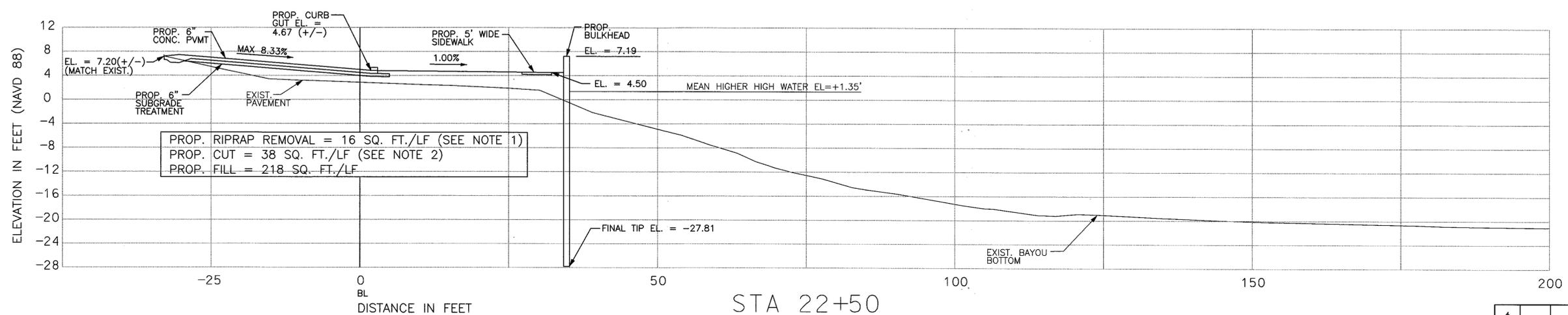
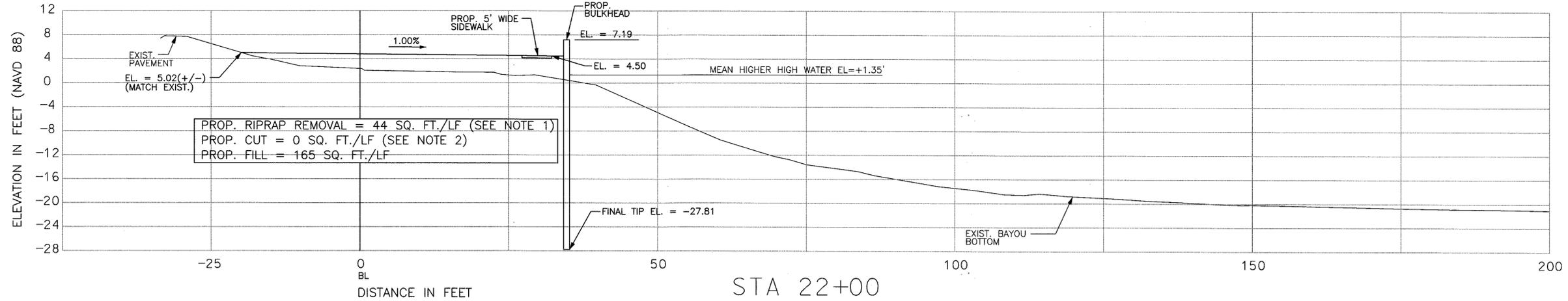
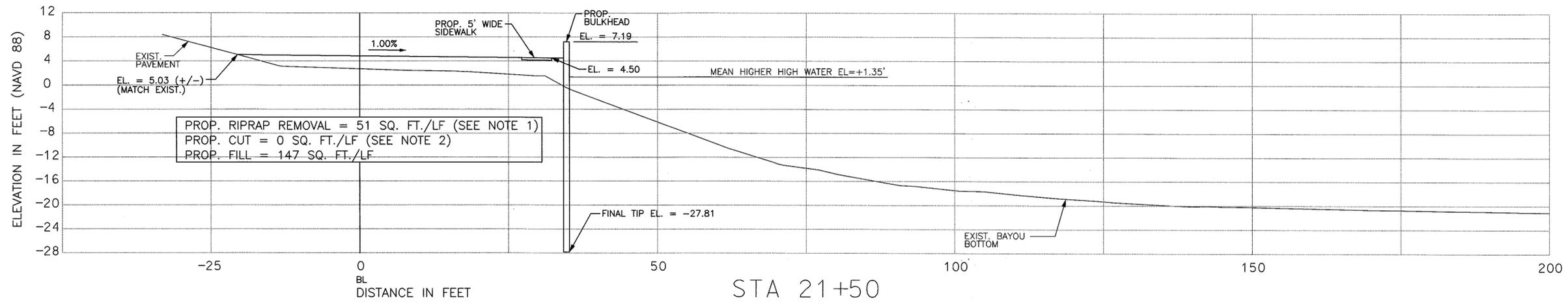
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4-28-15

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NO.	DATE	REVISION	APPROV.
GALVESTON COUNTY WASHINGTON PARK			
CROSS SECTIONS (SHEET 2 OF 7)			
		<small>AECOM TECHNICAL SERVICES, INC. 5444 WESTHEIMER RD, SUITE 200 HOUSTON, TEXAS 77056 WWW.AECOM.COM TBPE REG. NO. F-3580</small>	
Unit	PUBLIC WORKS	Scale:	H & V 1"=10'
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Drawn	JS	Approved	LNH
Date	APRIL 2015	Project No.	60073413
		Sheet	11 of 35



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Handwritten: Kristin Landry 4-28-15

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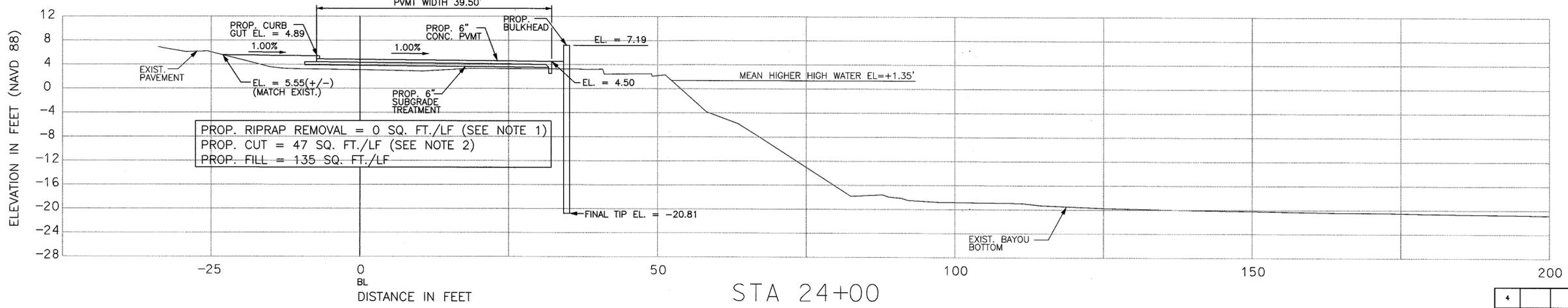
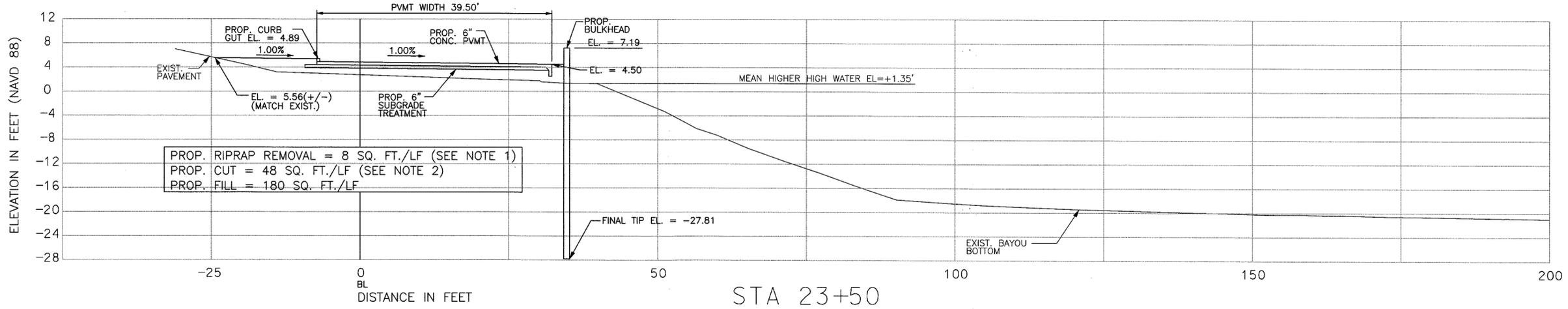
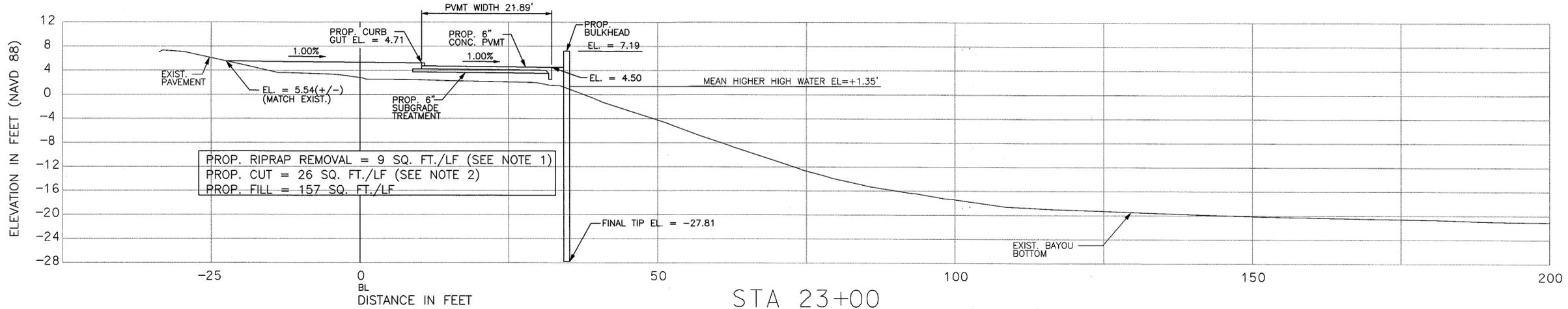
GALVESTON COUNTY
WASHINGTON PARK

CROSS SECTIONS
(SHEET 3 OF 7)



AECOM TECHNICAL SERVICES, INC.
5444 WESTHEIMER RD, SUITE 200
HOUSTON, TEXAS 77056
WWW.AECOM.COM
TBPE REG. NO. F-3580

Unit	PUBLIC WORKS	Scale:	H & V 1"=10'	Date	APRIL 2015
Designed	LNH	Checked	WRB	Project No.	60073413
Drawn	JS	Approved	LNH	Sheet	12 of 35



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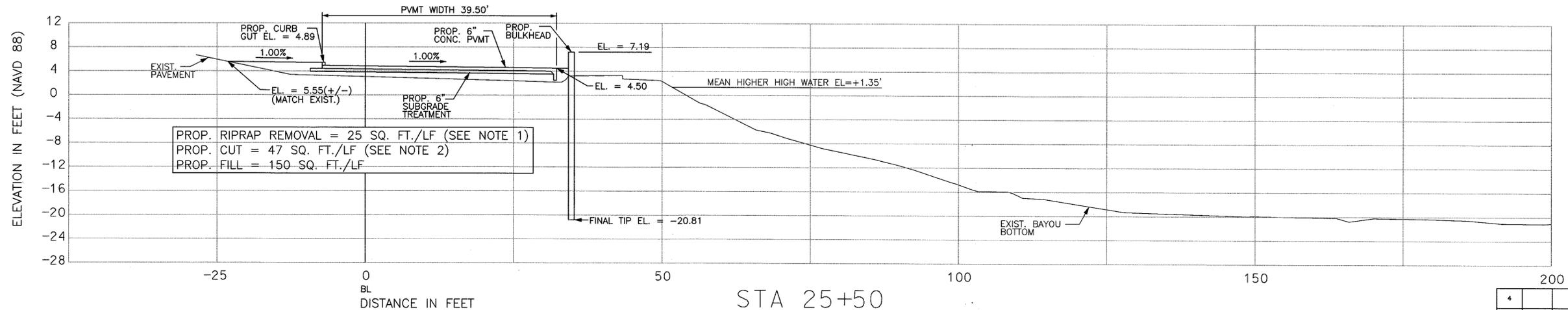
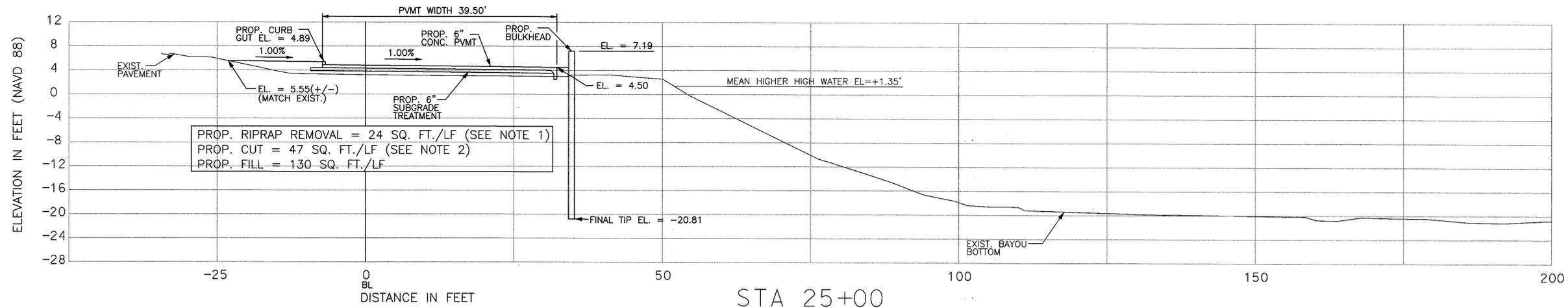
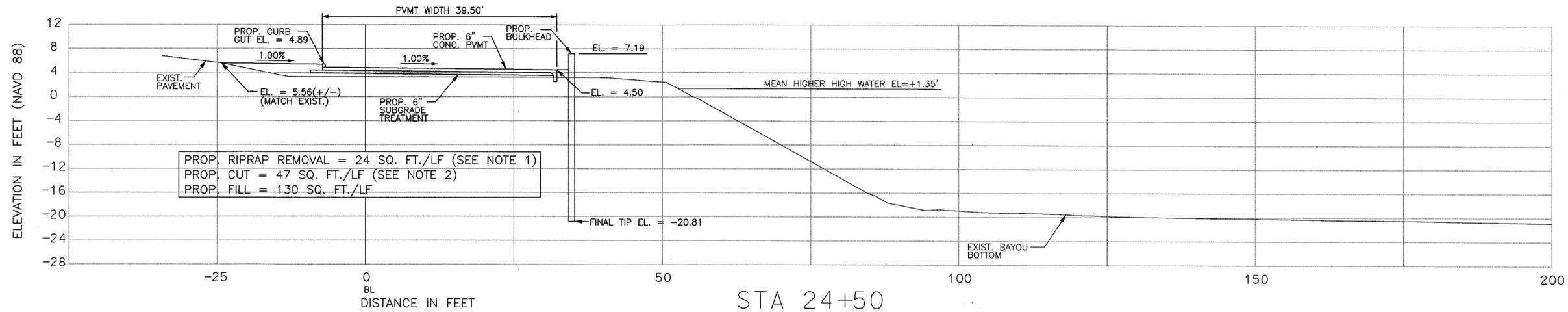
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1/20/15 Kristin L. Landry 4-28-15

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NO.	DATE	REVISION	APPROV.
GALVESTON COUNTY WASHINGTON PARK			
CROSS SECTIONS (SHEET 4 OF 7)			
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Unit	PUBLIC WORKS	Scale:	H & V 1"=10'
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Drawn	JS	Approved	LNH
Date	APRIL 2015	Project No.	60073413
		Sheet	13 of 35

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NOTES:

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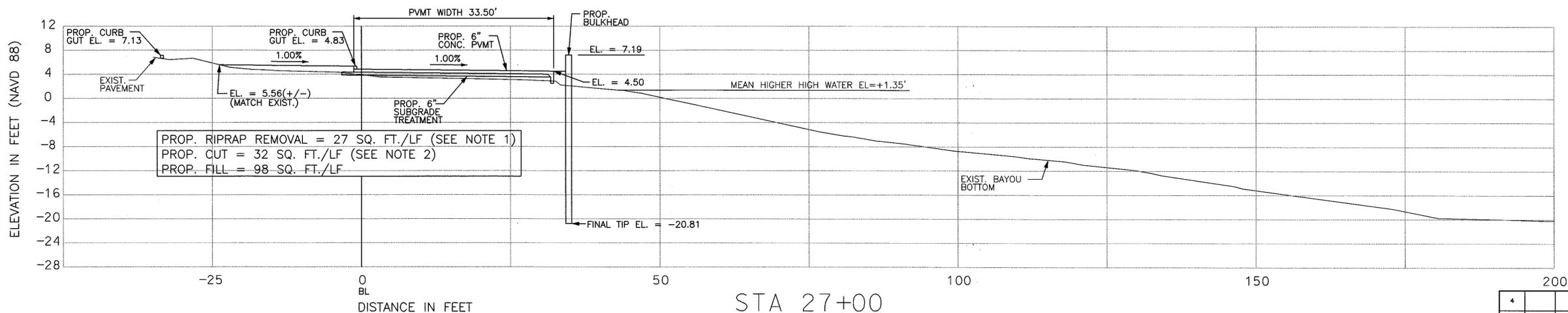
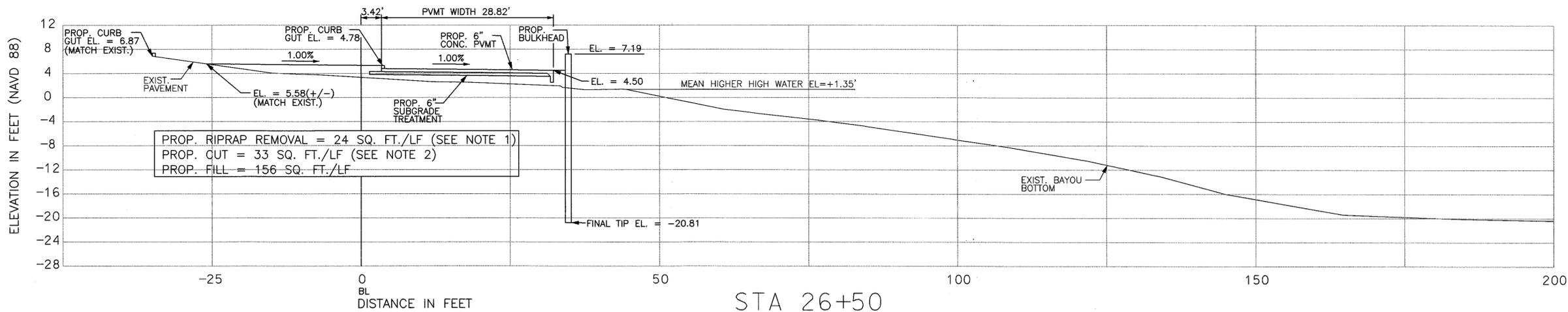
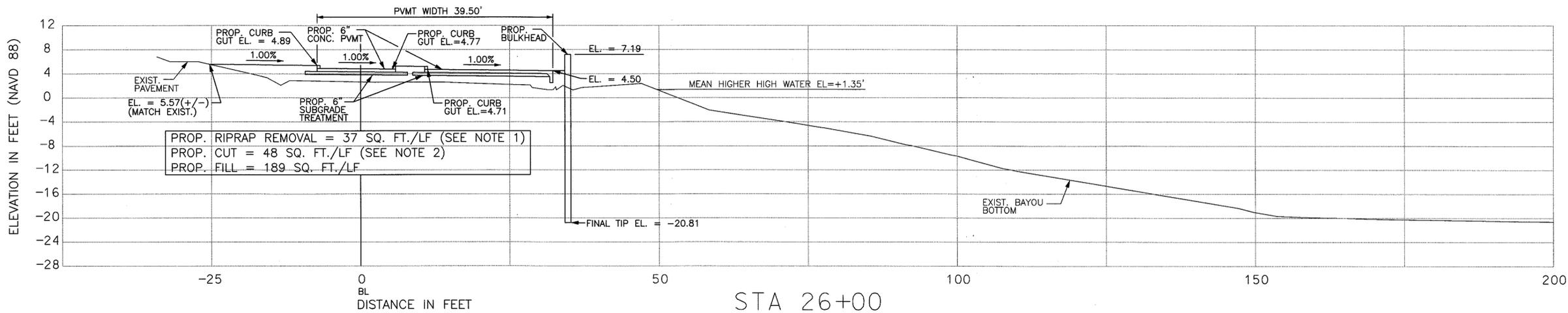
**GALVESTON COUNTY
WASHINGTON PARK
CROSS SECTIONS
(SHEET 5 OF 7)**

AECOM

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Unit	PUBLIC WORKS	Scale:	H & V 1"=10'	Date	APRIL 2015
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Drawn	JS	Approved	LNH	Sheet	14 of 35

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NOTES:

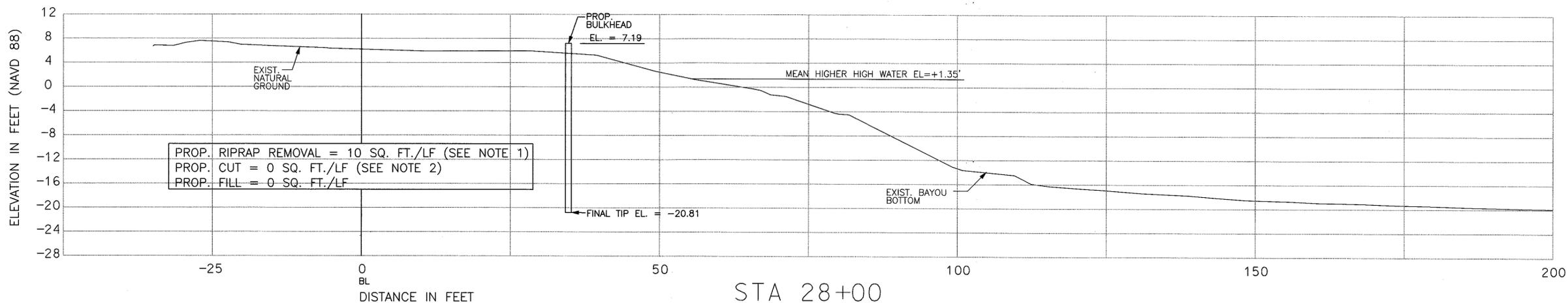
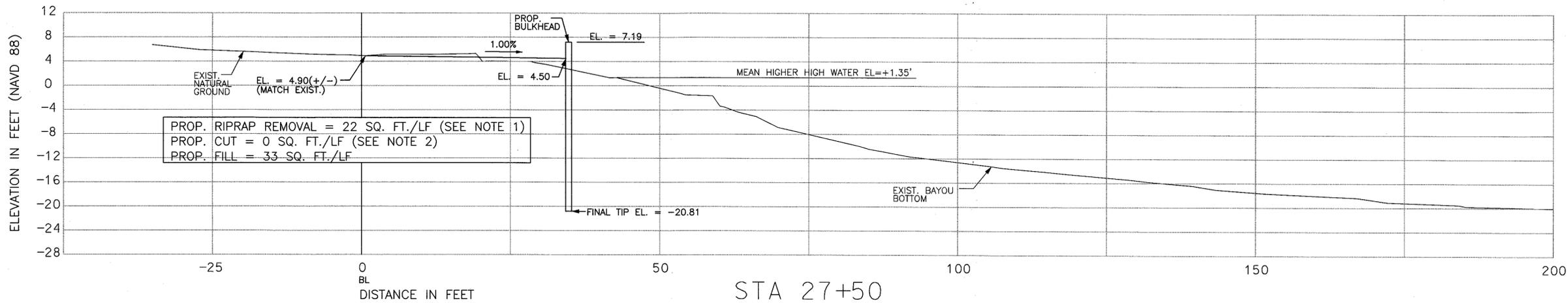
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Kristin Landry 4-28-15

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NO.	DATE	REVISION	APPROV.
GALVESTON COUNTY WASHINGTON PARK			
CROSS SECTIONS (SHEET 6 OF 7)			
		<small>AECOM TECHNICAL SERVICES, INC. 5444 WESTHEIMER RD, SUITE 200 HOUSTON, TEXAS 77056 WWW.AECOM.COM TBPE REG. NO. F-3580</small>	
Unit	PUBLIC WORKS	Scale:	H & V 1"=10'
Designed	LNH	Checked	WRB
Drawn	JS	Approved	LNH
Date	APRIL 2015	Project No.	60073413
		Sheet	15 of 35

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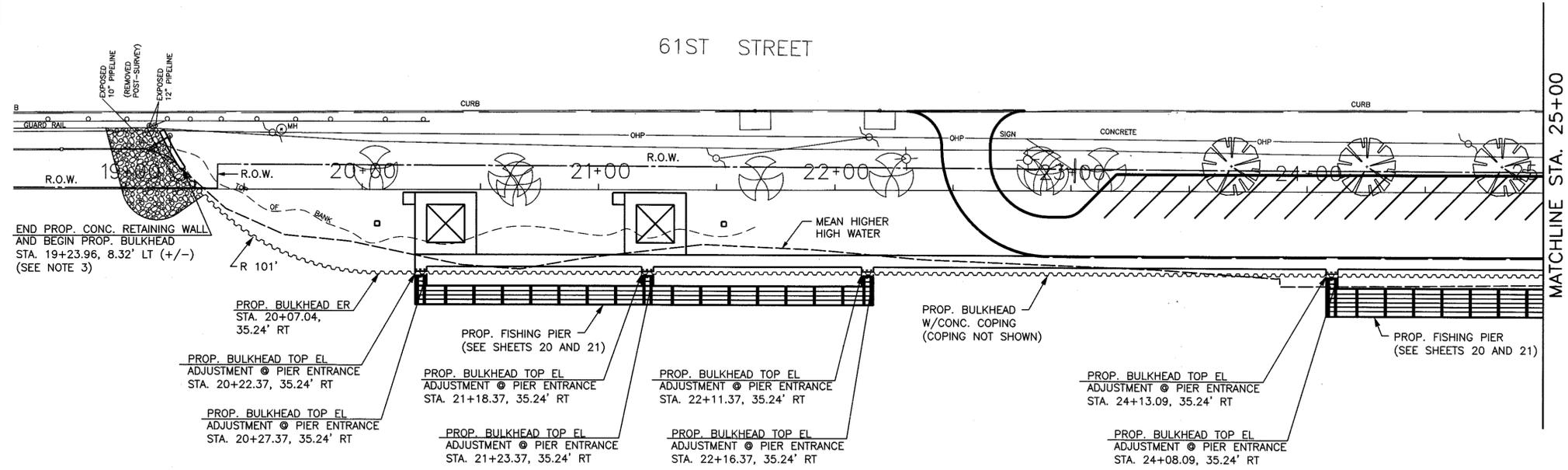


NOTES:

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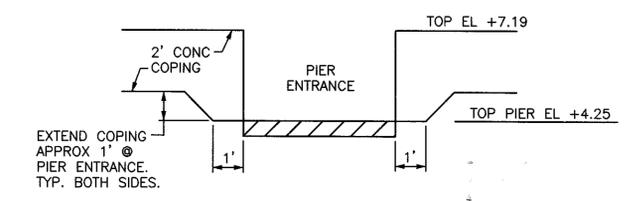
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NO.	DATE	REVISION	APPROV.
GALVESTON COUNTY WASHINGTON PARK			
CROSS SECTIONS (SHEET 7 OF 7)			
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		Sheet	16 of 35



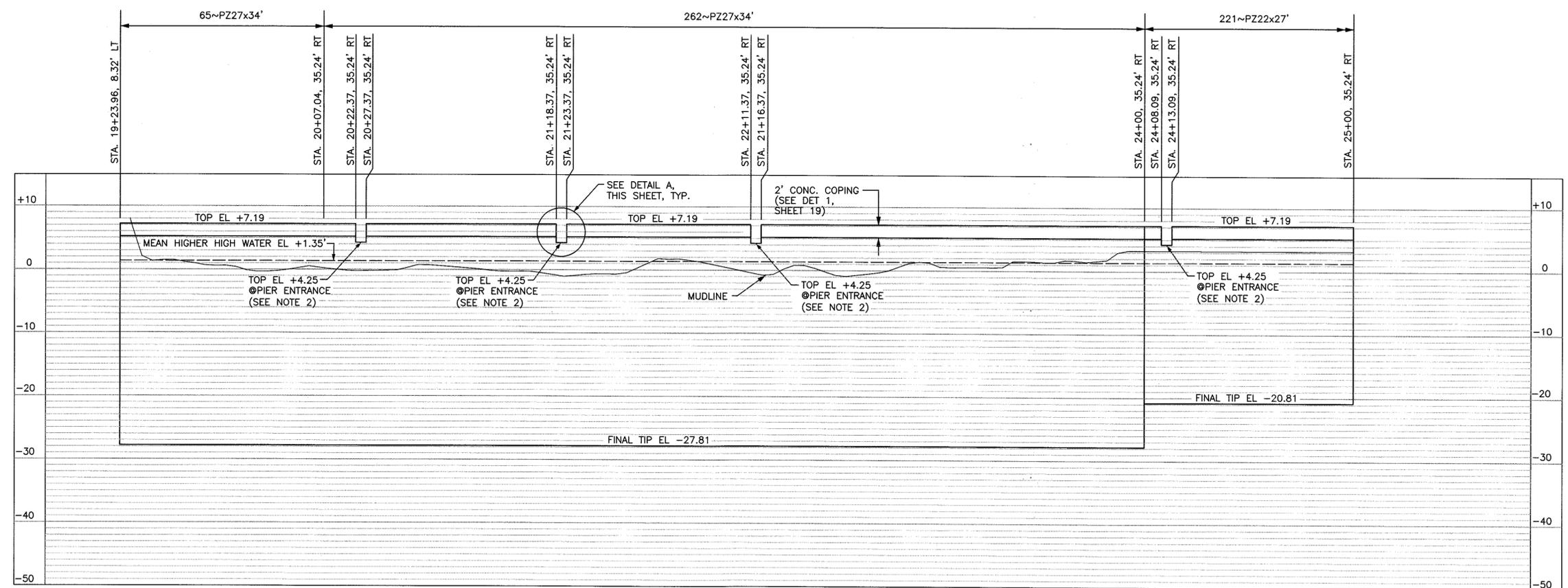
SHEETPILE BULKHEAD PLAN
SCALE: 1"=30'



- NOTES:
- STATIONS AND OFFSETS ARE TAKEN FROM FACE OF SHEETPILE, BAYOU SIDE.
 - FIELD CUT PILES AS NECESSARY. SEE 5' WIDE PIER ENTRANCE WALKWAY DETAIL, SHEET 21.
 - REFER TO SHEET 5 FOR CONCRETE RETAINING WALL INFORMATION.



DETAIL A
SCALE: NTS

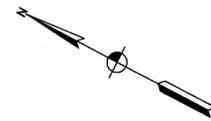
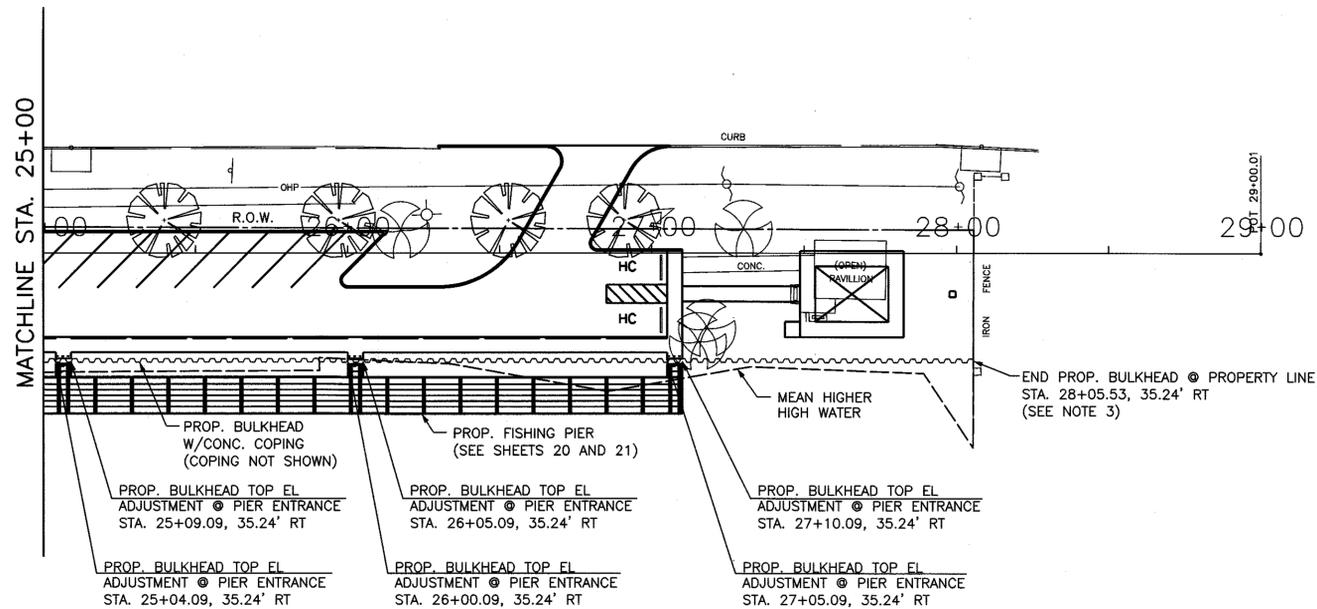


SHEETPILE BULKHEAD ELEVATION
SCALE: H 1"=30', V 1"=10'



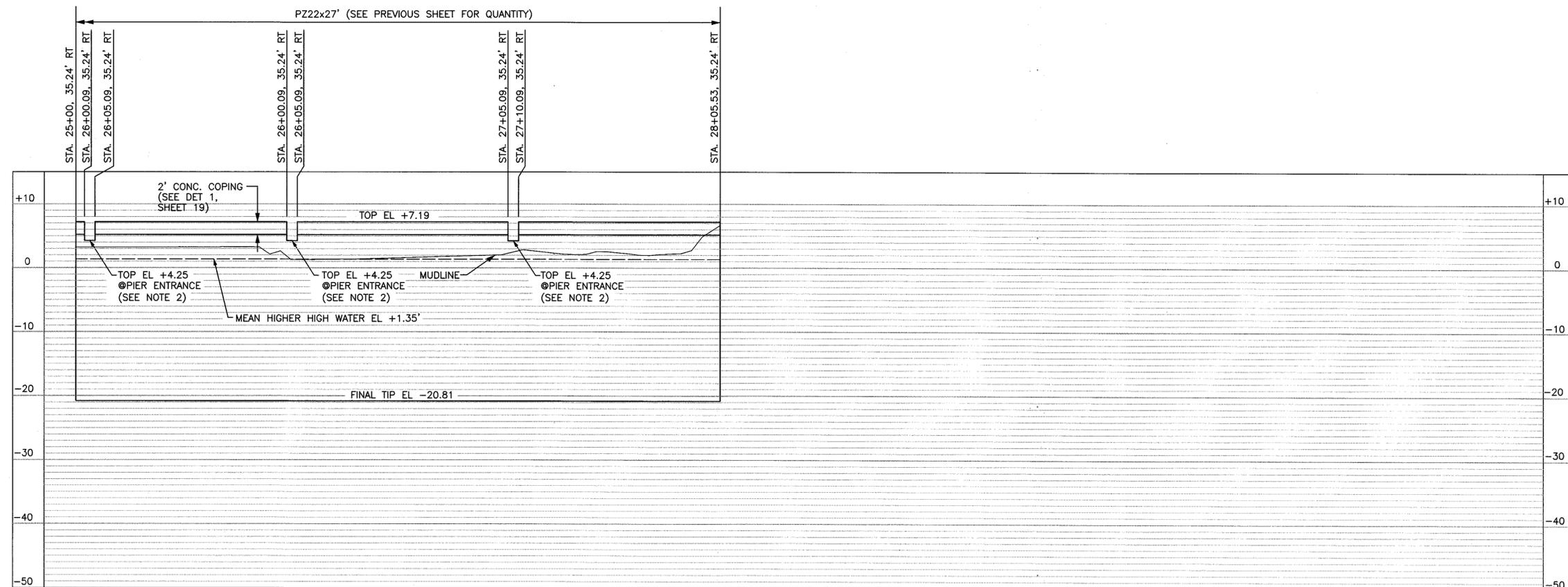
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NO.	DATE	REVISION	APPROV.
GALVESTON COUNTY WASHINGTON PARK			
SHEETPILE BULKHEAD PLAN AND ELEVATION VIEW (SHEET 1 OF 2)			
AECOM		AECOM TECHNICAL SERVICES, INC. 5444 WESTHEIMER RD, SUITE 200 HOUSTON, TEXAS 77056 WWW.AECOM.COM TBPE REG. NO. F-3580	
Unit	PUBLIC WORKS	Scale:	AS SHOWN
Designed	LNH	Checked	WRB& WB
Drawn	JS	Approved	LNH
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- NOTES:
1. STATIONS AND OFFSETS ARE TAKEN FROM FACE OF SHEETPILE, BAYOU SIDE.
 2. FIELD CUT PILES AS NECESSARY. SEE 5' WIDE PIER ENTRANCE WALKWAY DETAIL, SHEET 21.
 3. END BULKHEAD WITHIN HIGHER EMBANKMENT SUCH THAT TOP OF BULKHEAD ELEVATION IS LESS THAN OR EQUAL TO THE ELEVATION OF THE EMBANKMENT. EXISTING RIPRAP REMOVED IN THIS AREA SHALL BE RELOCATED ON THE BAYOU SIDE OF THE BULKHEAD AS CLOSE AS POSSIBLE TO THE END OF BULKHEAD TO PROTECT THE TERMINATION POINT OF THE BULKHEAD.

SHEETPILE BULKHEAD PLAN
SCALE: 1"=30'



SHEETPILE BULKHEAD ELEVATION
SCALE: H 1"=30', V 1"=10'

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SHEETPILE BULKHEAD PLAN AND ELEVATION VIEW (SHEET 2 OF 2)



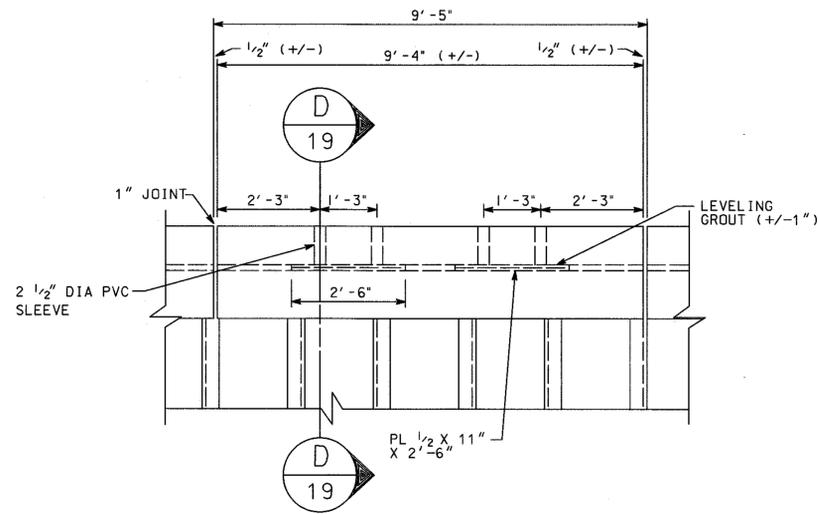
AECOM TECHNICAL SERVICES, INC.
5444 WESTHEIMER RD, SUITE 200
HOUSTON, TEXAS 77056
WWW.AECOM.COM
TBPE REG. NO. F-3580

Unit	PUBLIC WORKS	Scale:	AS SHOWN	Date	APRIL 2015
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Drawn	JS	Approved	LNH	Sheet	18 of 35

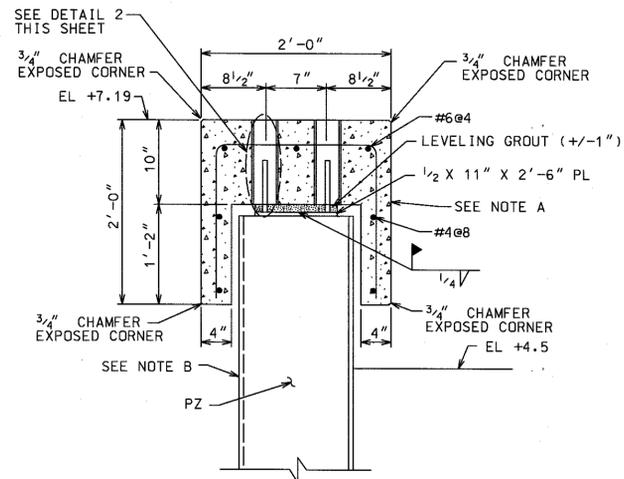


Wally Burns 4/22/2015

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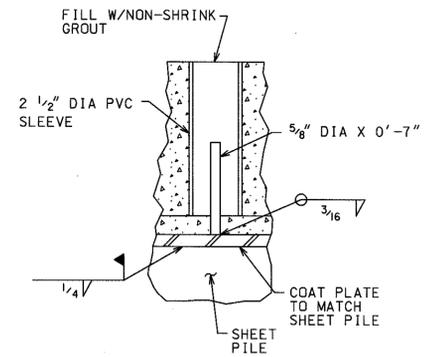
DETAIL 1
SCALE: 1"=2'



NOTES:

- A) PROVIDE PRECAST CAPS IN 9'-5" LENGTHS (+/-). ADJUST AS REQUIRED TO FIT PILING DIMENSION. CONTRACTOR MAY SUBSTITUTE LONGER SECTION.
- B) TOP 20 FEET OF SHEET PILE SHALL BE COATED WITH COAL TAR EPOXY.
- C) CONTRACTOR MAY SUBSTITUTE CAST-IN-PLACE CAP FOR PRECAST.

SECTION D-D
SCALE: 1"=1'

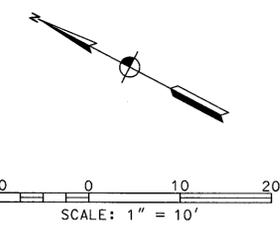
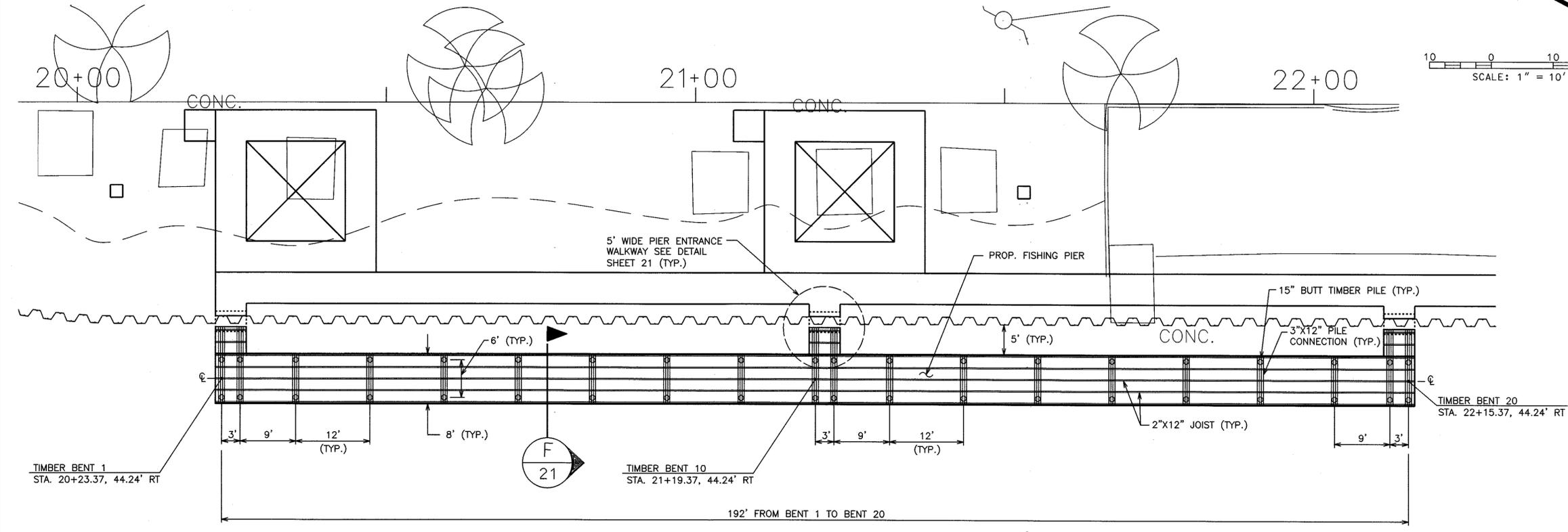
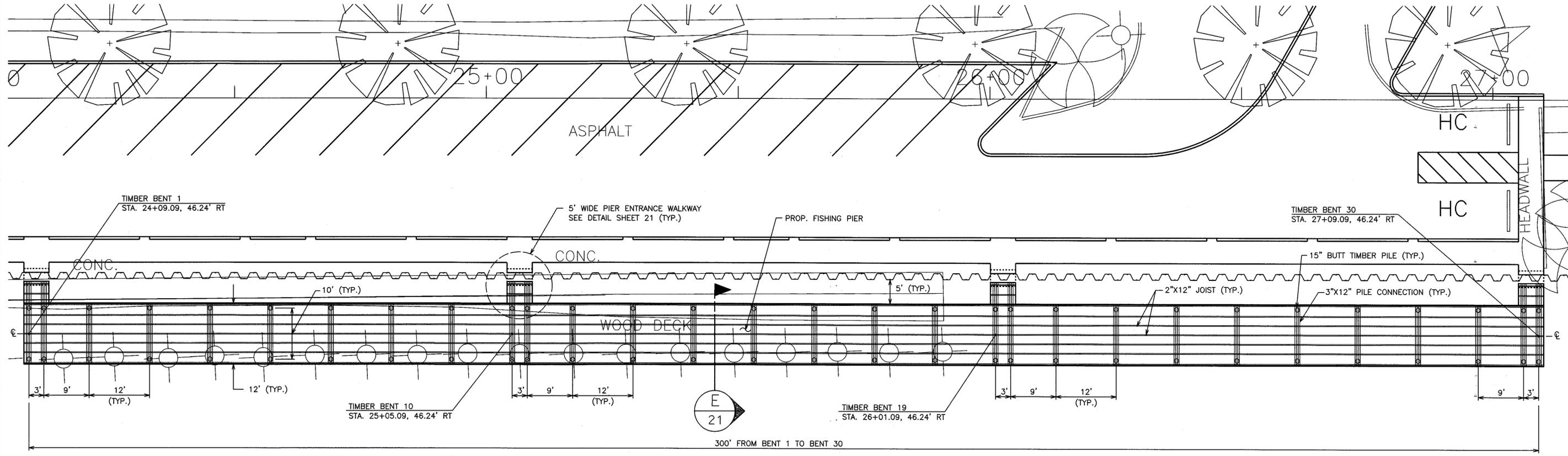


DETAIL 2
SCALE: 2X



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SHEETPILE BULKHEAD DETAILS			
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Unit	PUBLIC WORKS	Scale:	AS SHOWN
Designed	LNH	Checked	WRB& WB
Drawn	JS	Approved	LNH
Date	APRIL 2015	Project No.	60073413
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- NOTES:**
1. STATIONS AND OFFSETS ARE TAKEN FROM CENTERLINE OF PROPOSED PIER STRUCTURE.
 2. PIER TREADS AND RAILING DETAILS ARE NOT SHOWN ON THIS SHEET. SEE SHEET 21 FOR TREAD AND RAILING DETAILS.



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GALVESTON COUNTY
WASHINGTON PARK

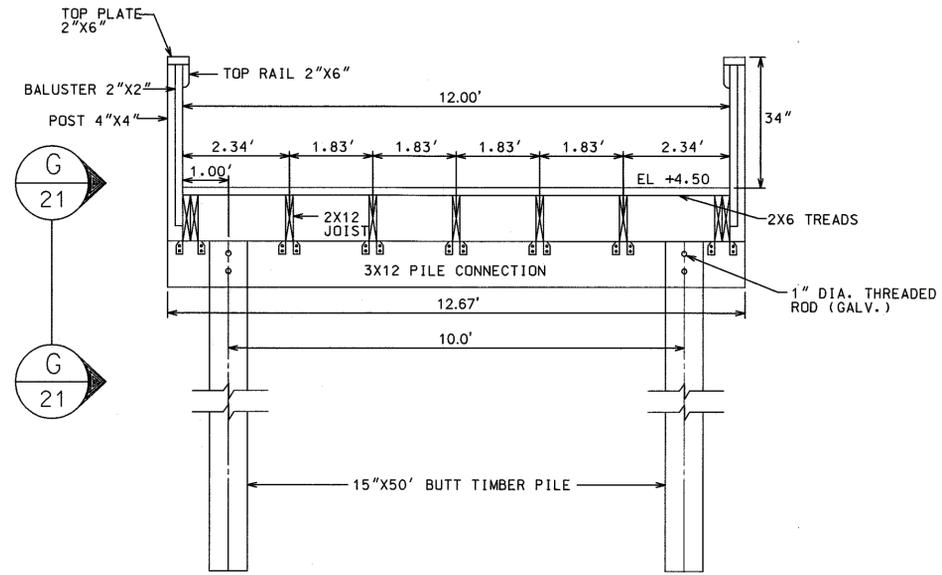
FISHING PIER LAYOUT

AECOM

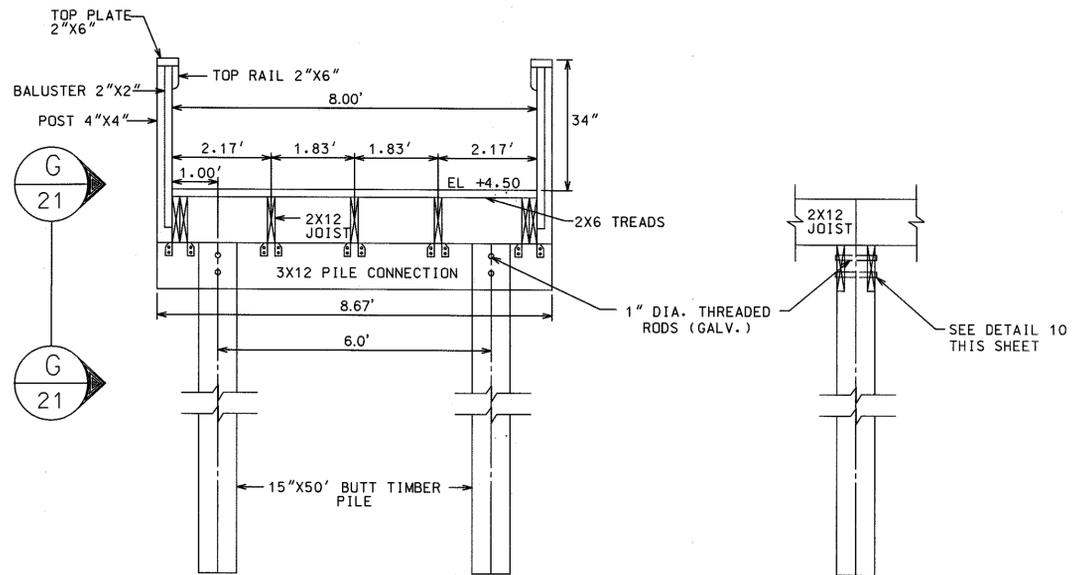
AECOM TECHNICAL SERVICES, INC.
5444 WESTHEIMER RD, SUITE 200
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Unit	PUBLIC WORKS	Scale:	1"=10'	Date	APRIL 2015
Designed	LNH	Checked	WRB & WB	Project No.	60073413
Drawn	JS	Approved	LNH	Sheet	20 of 35

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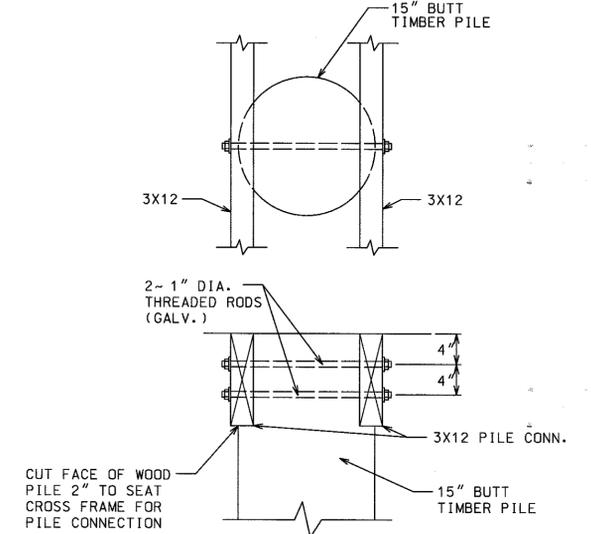


SECTION E-E
(FOR 12' WIDE PIER)
SCALE: NTS

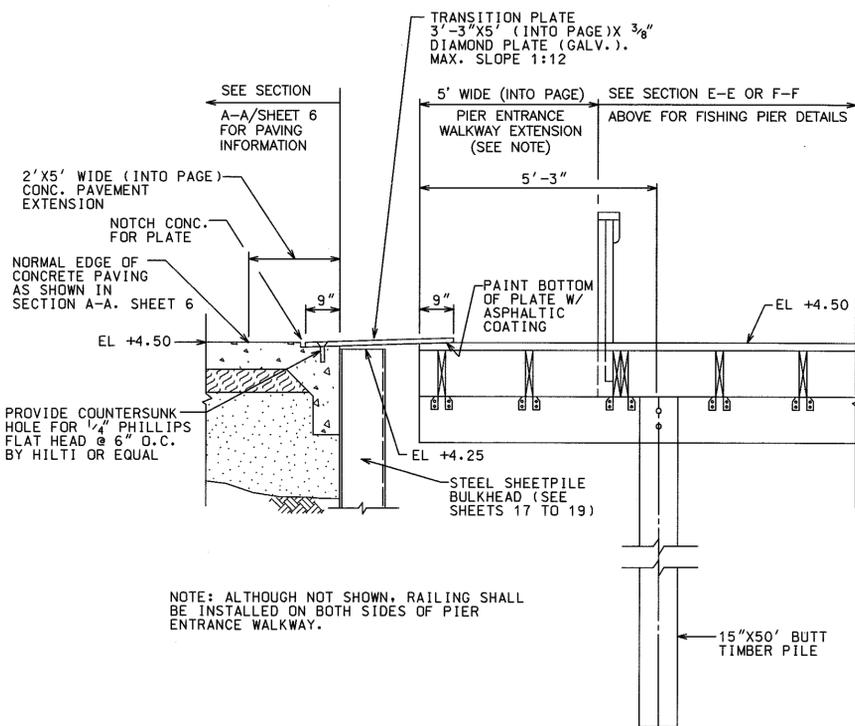


SECTION F-F
(FOR 8' WIDE PIER)
SCALE: NTS

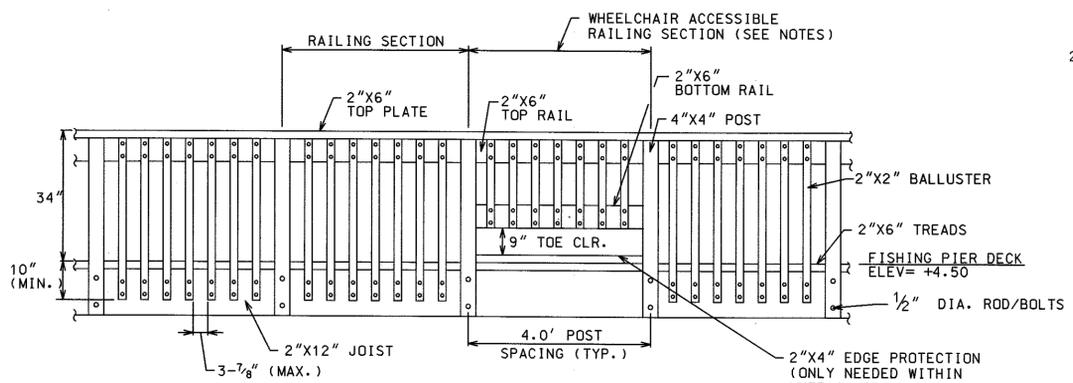
SECTION G-G
SCALE: NTS



DETAIL 10
SCALE: 1"=4'

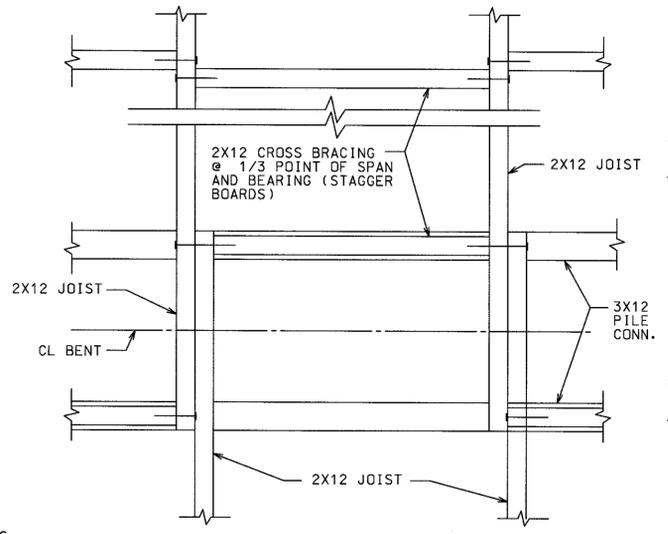


5' WIDE PIER ENTRANCE
WALKWAY DETAIL
SCALE: NTS



RAILING DETAIL
SCALE: NTS

NOTES:
ON THE BAYOU SIDE OF EACH FISHING PIER, CONTRACTOR SHALL INSTALL WHEELCHAIR ACCESSIBLE RAILING SECTIONS EVENLY SPACED ALONG THE LENGTH OF THE PIER AS FOLLOWS:
8' WIDE PIER: A TOTAL OF 12 WHEELCHAIR ACCESSIBLE RAILING SECTIONS, EVENLY SPACED.
12' WIDE PIER: A TOTAL OF 19 WHEELCHAIR ACCESSIBLE RAILING SECTIONS, EVENLY SPACED.

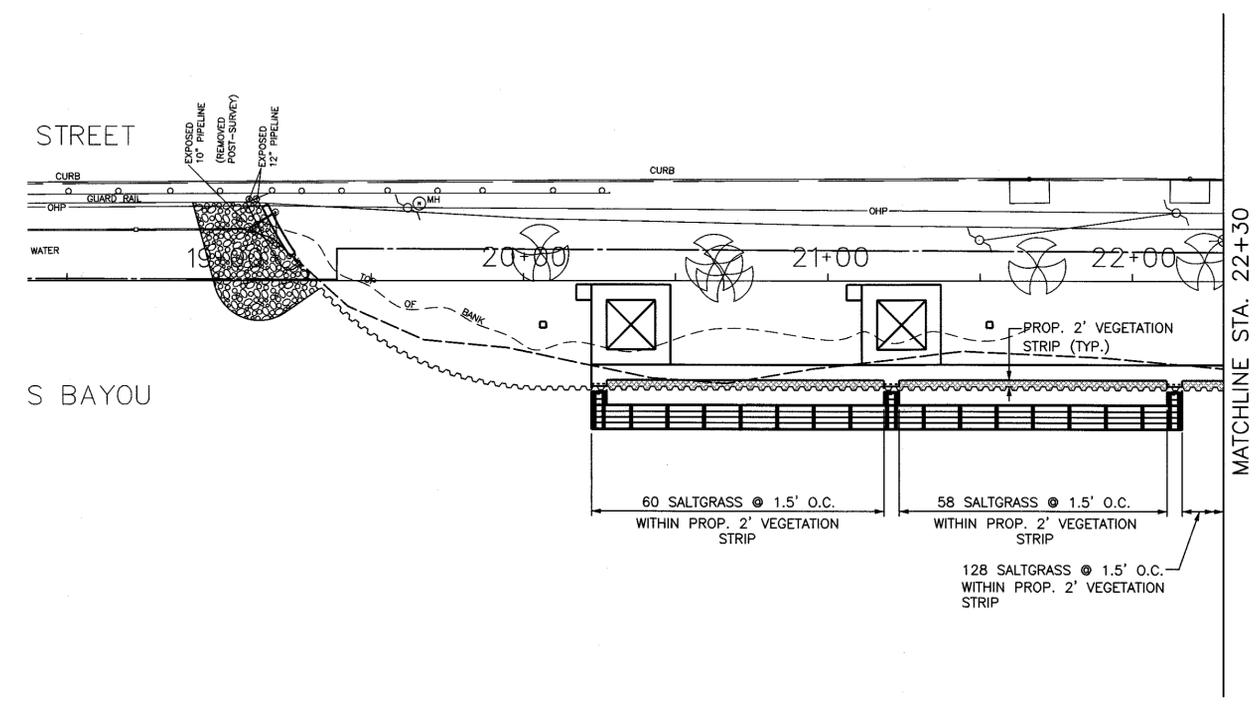
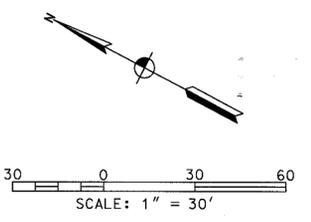


DETAIL 11 - CROSS BRACING PLAN
SCALE: NTS



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FISHING PIER DETAILS			
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Unit	PUBLIC WORKS	Scale:	AS SHOWN
Designed	LNH	Checked	WRB: WB
Drawn	JS	Approved	LNH
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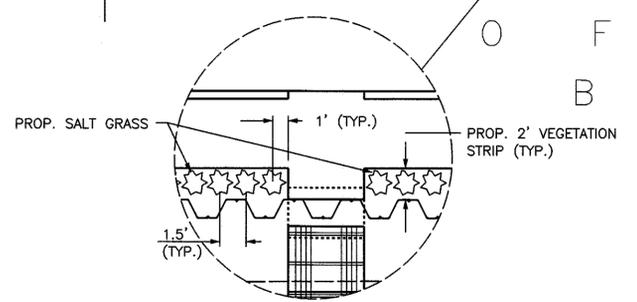
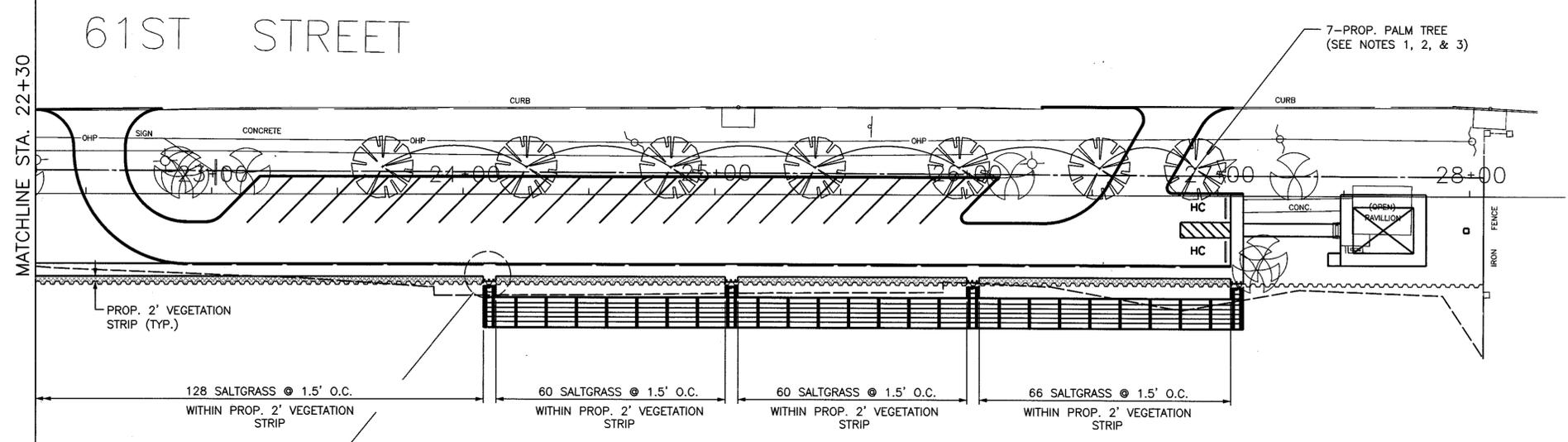
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PLANT SCHEDULE						
SCIENTIFIC NAME	COMMON NAME	SIZE	CAL.	HEIGHT	SPR	REMARKS
<i>Distichlis spicata</i>	SALT GRASS	PLUGS	N/A	1.5'	N/A	PLUGS @ 1.5' O.C.
TBD by Arborist	PALM TREE	10' BTH	TBD	10' BTH	TBD	TBD
<i>Stenotaphrum secundatum</i>	ST. AUGUSTINE SOD	N/A	N/A	N/A	N/A	AREA AS INDICATED

BTH = BROWN TRUNK HEIGHT

- NOTES:**
- CONTRACTOR SHALL HAVE CERTIFIED ARBORIST IDENTIFY EXISTING PALM TREE SPECIES WITHIN WASHINGTON PARK AND MATCH PROPOSED PALM TREES TO EXISTING PALM TREES WITHIN WASHINGTON PARK.
 - PLANT PROPOSED PALM TREES WITHIN WASHINGTON PARK IN LINE WITH AND PERPENDICULAR TO THE EXISTING PALM TREES WITHIN THE 61ST STREET MEDIAN.
 - LOCATE PROPOSED PALM TREES A MINIMUM OF 3.5' FROM BACK OF PROPOSED CURB.
 - CONTRACTOR SHALL APPLY A MINIMUM 2' WIDE STRIP OF SOD ALONG ALL PROPOSED IMPROVEMENTS AND ADDITIONAL SOD AS DIRECTED BY THE OWNER. PROVIDE SOD AS INDICATED UNLESS OTHERWISE DIRECTED BY OWNER.
 - CONTRACTOR SHALL PROTECT ALL EXISTING TREES WITHIN THE LIMITS OF CONSTRUCTION ACTIVITIES AT NO ADDITIONAL COST TO THE OWNER. PROTECT TRUNK WITH STRAPPED-ON WOOD PLANKING TO A VERTICAL HEIGHT OF 8 FEET (OR TO THE LIMITS OF THE LOWEST BRANCHING). TREE PLANKING TO BE 2X4 SOUTHERN YELLOW PINE, CONSTRUCTION GRADE, PLACED WITH SIDES TOUCHING AND SECURED AT THREE POINTS WITH GALVANIZED WIRE TWISTED, TAUGHT, AND STAPLED TO EACH PLANK.



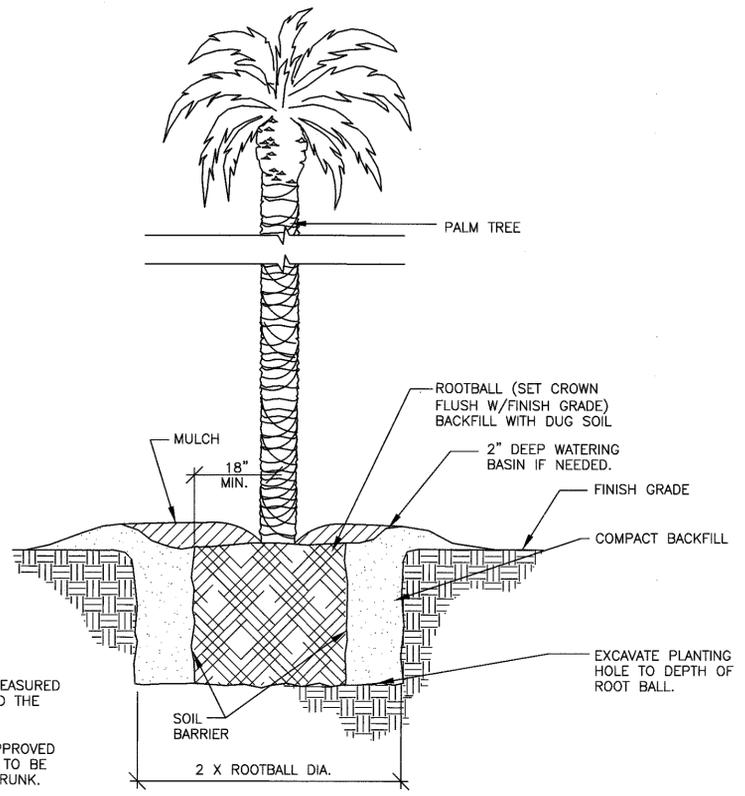
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Kristin Landry 4-28-15

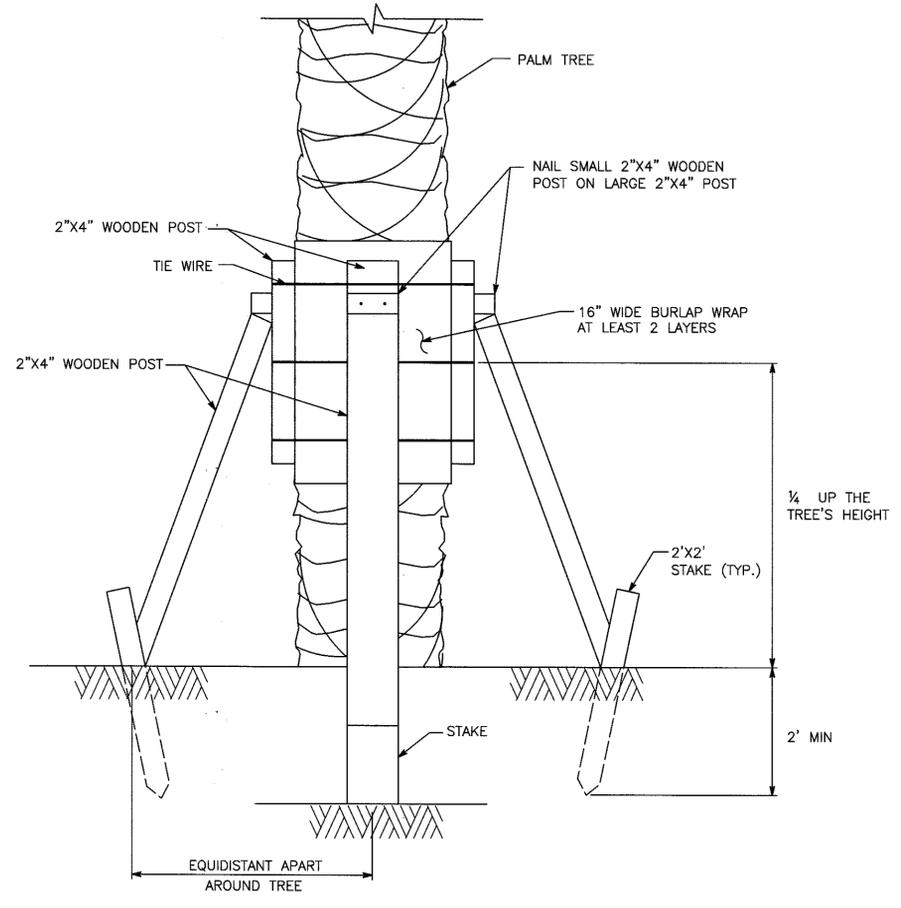
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NO.	DATE	REVISION	APPROV.
GALVESTON COUNTY WASHINGTON PARK			
PLANTING PLAN			
AECOM		AECOM TECHNICAL SERVICES, INC. 5444 WESTHEIMER RD. SUITE 200 HOUSTON, TEXAS 77056 WWW.AECOM.COM TBPE REG. NO. F-3580	
Unit	PUBLIC WORKS	Scale: 1"=30'	Date: APRIL 2015
Designed	LNH	Checked	WRB Project No. 60073413
Drawn	JS	Approved	LNH Sheet 22 of 35

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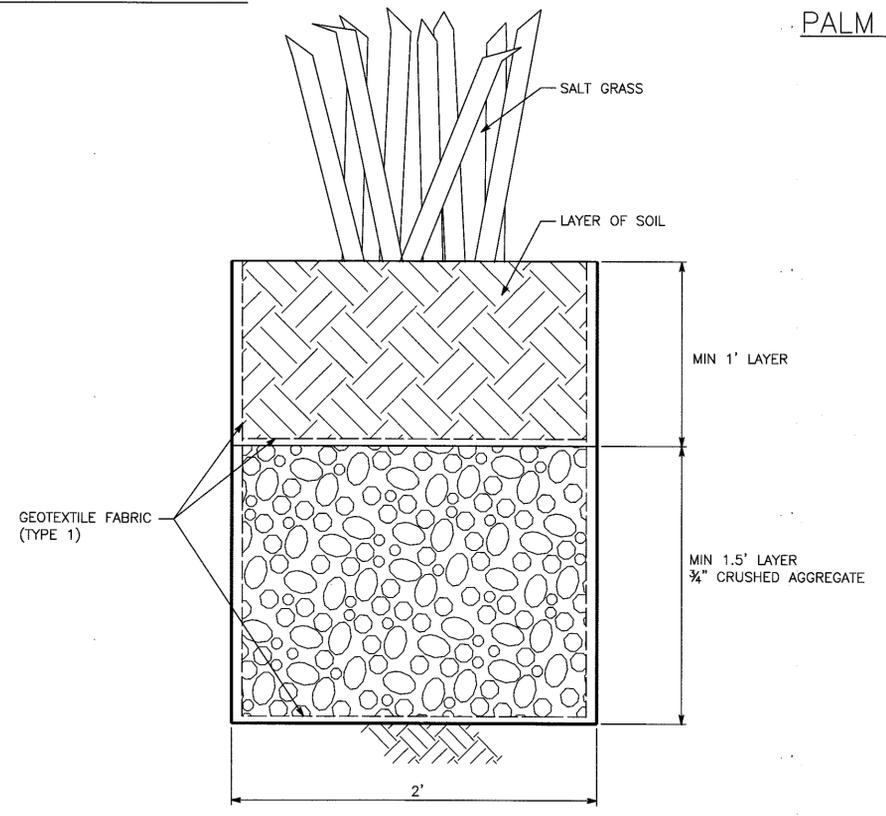
- NOTES:
- 1) PALM FRONDS TO BE TIED A MINIMUM OF 45 DAYS.
 - 2) PALM BROWN TRUNK TO BE MEASURED BETWEEN CROWN OF ROOTBALL AND THE BASE OF THE LOWEST FROND.
 - 3) PROVIDE 3-INCH LAYER OF APPROVED MULCH AT PLANT BASINS. MULCH TO BE 6-INCHES AWAY FROM THE TREE TRUNK.
 - 4) PLANTING INSTALLATION SHALL COMPLY WITH ALL APPLICABLE COUNTY STANDARDS.
 - 5) AMENDMENT PACKETS: 16-16-16 'NUTRIPAK', USE TWO PACKETS FOR EACH INCH OF TRUNK DIAMETER FOR TREES.

PALM PLANTING DETAIL — PLANTING AREA
SCALE: NTS



- NOTES:
- 1) BACKFILL AROUND PALM TREES SHALL BE NATIVE SOIL OR TOPSOIL.
 - 2) TOPSOIL FOR PLANTING WORK IS NOT AVAILABLE AT THE SITE AND MUST BE FURNISHED AS SPECIFIED. TOPSOIL SHALL BE A SANDY LOAM OR SANDY CLAY LOAM, LOOSE FRIABLE, NATURAL, SURFACE SOIL FREE OF SUBSOIL, CLAY LUMPS, BRUSH, WEEDS, PLANT ROOTS, STUMPS AND STONES OVER 1-1/2 INCHES IN ANY DIMENSION, AND ANY OTHER EXTRANEIOUS OR TOXIC MATTER HARMFUL TO PLANT GROWTH. ORGANIC CONTENT OF TOPSOIL SHALL BE NOT LESS THAN 5 PERCENT AND NOT GREATER THAN 20 PERCENT. CLAY CONTENT OF TOPSOIL SHALL RANGE BETWEEN 5 PERCENT AND 20 PERCENT.

PALM STAKING DETAIL
SCALE: NTS

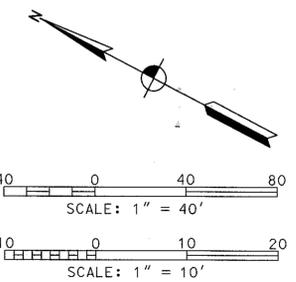


VEGETATION STRIP DETAIL
SCALE: 1/2" = 1'



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Unit	PUBLIC WORKS	Scale:	AS SHOWN
Designed	LNH	Checked	WRB
Drawn	JS	Approved	LNH
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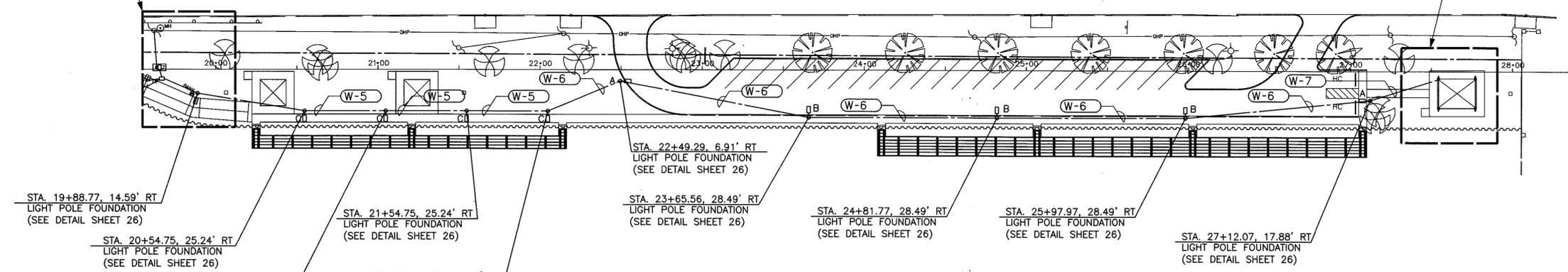
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SEE DETAIL 1 ON THIS SHEET FOR ENLARGED PLAN

SEE DETAIL 2 ON THIS SHEET FOR ENLARGED PLAN

61ST STREET



ELECTRICAL SITE PLAN

SCALE: 1"=40'

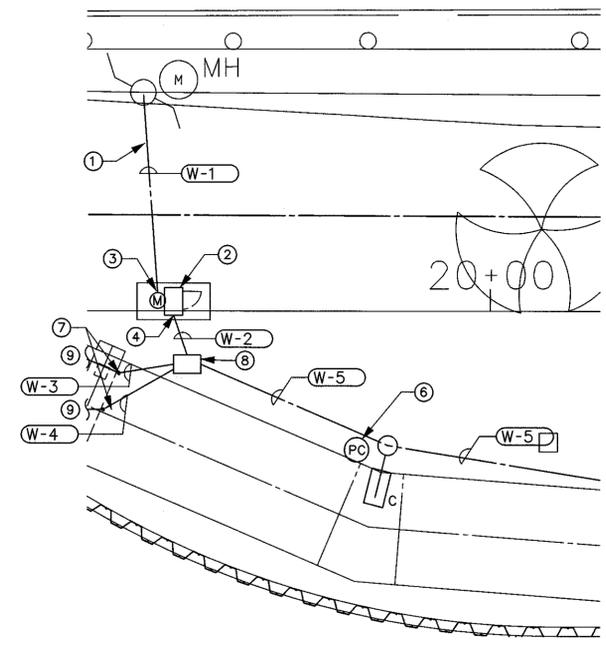
- ### SHEET NOTES
- ROUTE SERVICE LATERAL UNDERGROUND TO UTILITY POLE. ROUTE UP POLE TO 6"-18" FOR FROM SERVICE SECONDARY. INSTALL WEATHERHEAD IN ACCORDANCE WITH CENTERPOINT ENERGY STANDARDS.
 - ELECTRICAL EQUIPMENT ENCLOSURE. SEE DETAIL 2 ON SHEET 25.
 - STUB UP 1 1/2" SERVICE LATER NEXT TO ENCLOSURE UNDER METER SOCKET.
 - STUB UP CONDUITS FOR LIGHT FIXTURES AND RECEPTACLES IN ELECTRICAL EQUIPMENT ENCLOSURE.
 - GFI TYPE NEMA 5-20R RECEPTACLE IN WEATHER-PROOF BOX. SEE DETAIL 4 ON SHEET 25. TYPICAL FOR 4.
 - MOUNT PHOTOCEL ON TOP OF LIGHTING POLE. SEE DETAIL 3 ON SHEET 25 FOR WIRING DIAGRAM.
 - STUB UP CONDUIT AGAINST BENT. ROUTE CONDUIT UP TO BRIDGE DECK. INSTALL JUNCTION BOX FOR EMBEDDING CONDUIT IN BRIDGE DECK.
 - 24"x36"x26" IN GROUND PULL BOX.
 - SEE BRIDGE PACKAGE FOR CONTINUATION.

- ### GENERAL NOTES
- SEE SHEET 25 FOR PANELS SCHEDULE, LIGHTING FIXTURE SCHEDULE AND ONE LINE DIAGRAM.
 - DIRECT BURY ALL UNDERGROUND CONDUIT 24" BELOW FINISHED GRADE.

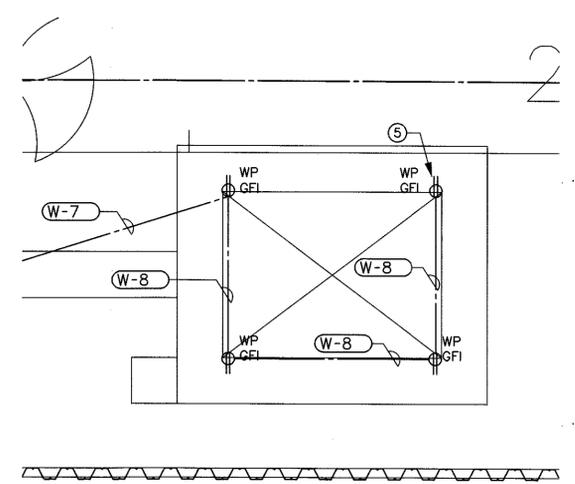


CODUIT SCHEDULE

TAG	SIZE	CONDUCTORS	CIRCUIT
(W-1)	1/2"	3*3	SERVICE LATERAL
(W-2)	1"	2*8,*8GND	LA-1,3
	1"	2*8,*8GND	LA-5,7
	1"	2*4,*4GND	LA-9
	1"	2*12,*12GND	LA-2,6
	2-1"	SPARES	SPARES
(W-3)	1"	2*12,*12GND	LA-2,6
(W-4)	1"	2*8,*8GND	LA-5,7
	1"	SPARE	SPARE
(W-5)	1"	2*8,*8GND	LA-1,3
	1"	2*4,*4GND	LA-9
	1"	2*12,*12GND	LA-2,6
(W-6)	1"	2*8,*8GND	LA-1,3
	1"	2*4,*4GND	LA-9
(W-7)	1"	2*4,*4GND	LA-9
(W-8)	1"	2*12,*12GND	LA-9



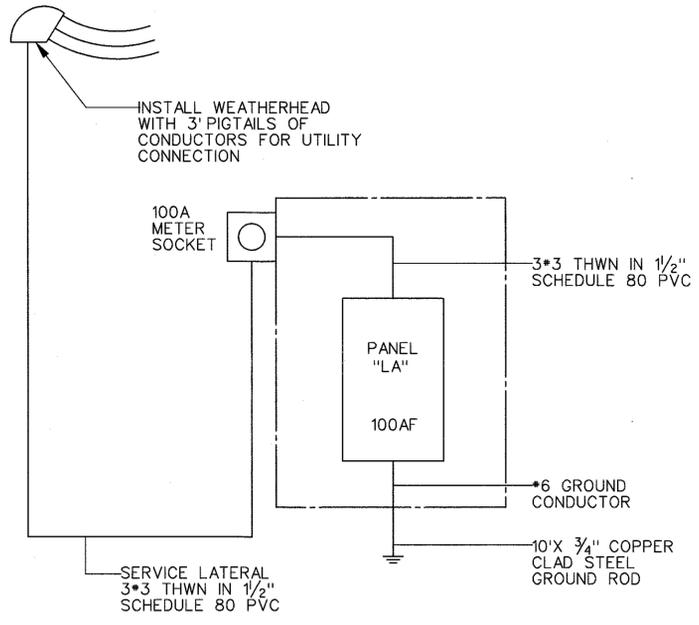
1 ENLARGED ELECTRICAL PLAN
SCALE: 1"=10'



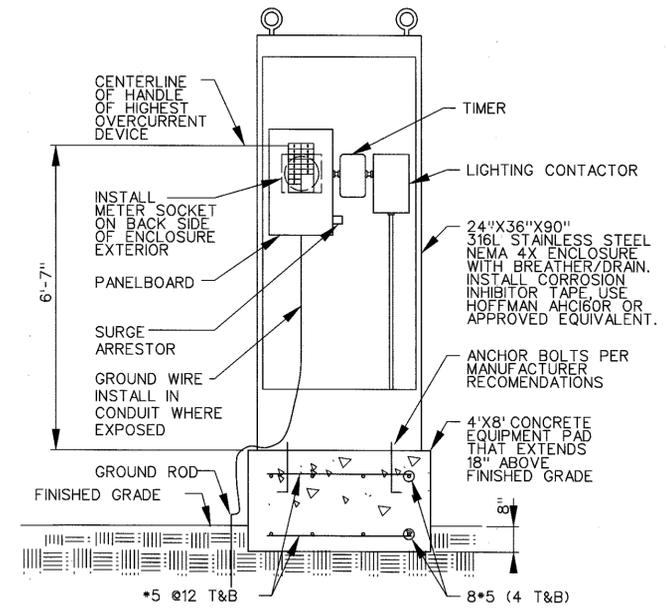
2 ENLARGED ELECTRICAL PLAN
SCALE: 1"=10'

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ELECTRICAL SITE PLAN			
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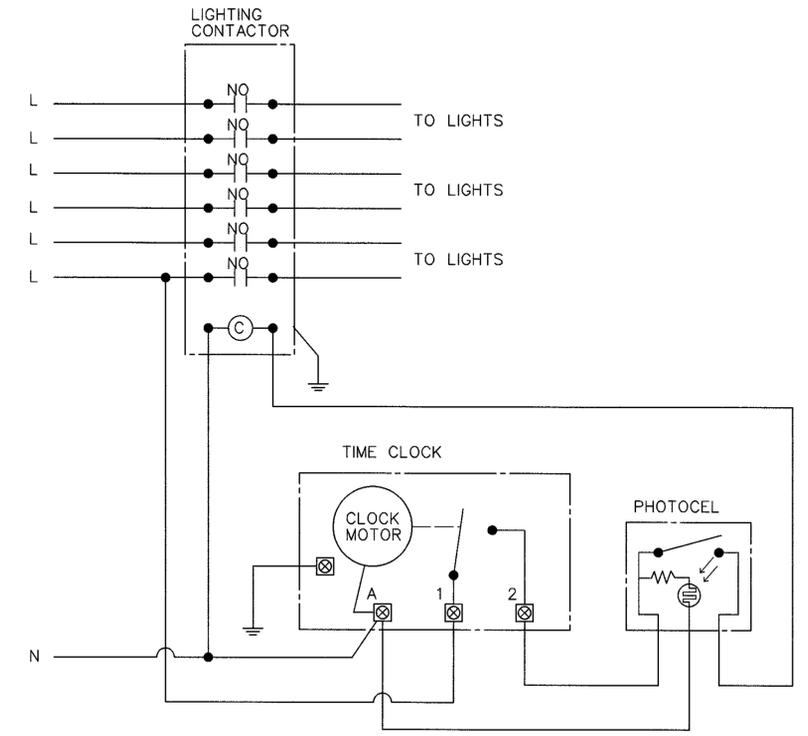
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1 ELECTRICAL RISER DIAGRAM
SCALE: NTS



2 DETAIL ELECTRICAL EQUIPMENT ENCLOSURE
SCALE: NTS



3 WIRING DIAGRAM LIGHTING CONTROL
SCALE: NTS

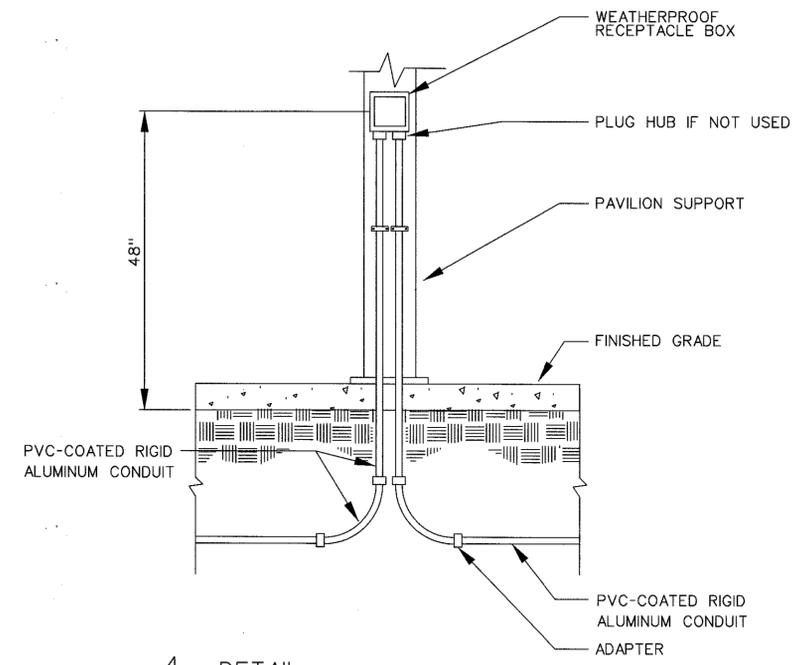
PANELBOARD "LA"									
MAIN BREAKER: 100A	GROUND BAR: COPPER	MANUFACTURER: SQUARE D							
TRIP SETTING: 100A	ISOLATED GROUND BAR: N.A.	MOUNTING & NEMA TYPE: SURFACE NEMA 1							
MAIN LUG OLNY: N.A.	SERVICE VOLTAGE: 120/240V 1 PH, 3 W	INTERRUPTING RATING: 14KAIC							
BUSSING: COPPER	INCOMING SUPPLY: SEE ONLINE	FED FROM PANEL OR XFMR: SEE ONE LINE							

LOAD	WIRE SIZE	CKT NO	TRIP	CONNECTED LOAD (VOLT AMPERES)		TRIP	CKT NO	WIRE SIZE	LOAD
				L-1	L-2				
WASHINGTON PARK LIGHT FIXTURES	8	1	20	900	225	20	2	10	BRIDGE/PEDESTRIAN LIGHTS FIXTURES
		3					4		
BOAT RAMP LIGHT FIXTURES	8	5	20	1125		20	6		SPARE
		7			1125	20	8		SPARE
RECEPTACLES		9	20	720		20	10		
SPARE		11	20			20	12		SURGE ARRESTOR

CONNECTED VOLT-AMPS	2970	2250	TOTAL CONNECTED LOAD (VA):	5,220
			MAX LINE CURRENT (AMPERES):	24.75

LIGHTING FIXTURE SCHEDULE						
TYPE	VOLT AMPS	VOLTS	DESCRIPTION	LAMPS		MOUNTING
				TYPE	NO. PER FIXTURE	
A	450	240	400W METAL HALIDE ROADWAY FIXTURE IN CORROSION RESISTANT ALUMINUM HOUSING WITH TYPE II DISTRIBUTION AND DARK BRONZE CORROSION RESISTANT POLYESTER POWDER COAT LITHONIA * AS2-400M-SR2-240-RPA-CR	400W METAL HALIDE	1	M400/U
B	450	240	SAME AS TYPE "A" WITH TYPE IV FORWARD THROW DISTRIBUTION LITHONIA * AS2-400M-SR4SC-240-RPA-CR	400W METAL HALIDE	1	M400/U
C	45	240	SAME FIXTURE FAMIL AS TYPE "A" WITH 42WATT FLUORESCENT LAMP LITHONIA * AS1-42TRT-SR3-MVOLT-RPA	42W FLUOR.	1	42WTRT

POLE SPECIFICATIONS:
 FOR TYPE "A" & "B" 18 FT. ROUND, STRAIGHT, 5 INCH DIAMETER, 0.188" THICK WALL, BASE PLATE MOUNTED, EXTRUDED 6063-T6 ALUMINUM POLE WITH 100MPH RATING WITH 1.3 GUST FOR THE PROJECTED AREA OF THE FIXTURES AND POLYESTER POWDER COAT FINISH TO MATCH FIXTURES LITHONIA* RSA-18-5G
 FOR TYPE "C" 12 FT. ROUND, STRAIGHT, 4 INCH DIAMETER, 0.125" THICK WALL, BASE PLATE MOUNTED, EXTRUDED 6063-T6 ALUMINUM POLE WITH 100MPH RATING WITH 1.3 GUST FOR THE PROJECTED AREA OF THE FIXTURES AND POLYESTER POWDER COAT FINISH TO MATCH FIXTURES LITHONIA* RSA-12-4C



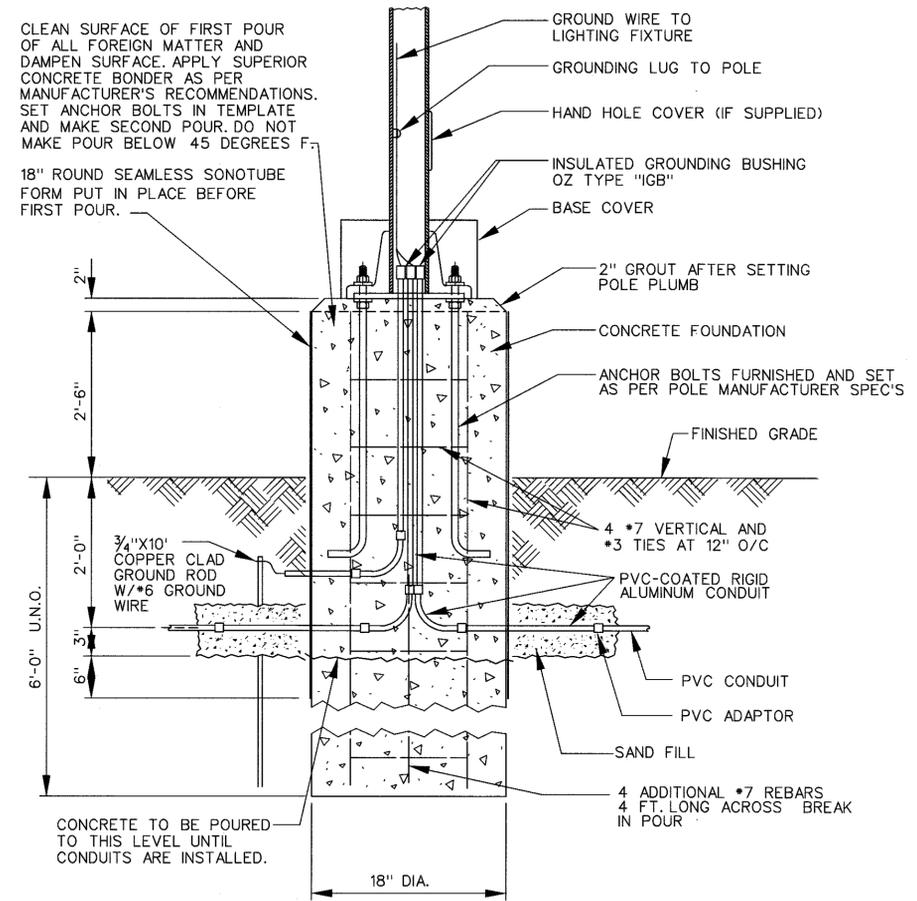
4 DETAIL RECEPTACLE INSTALLATION
SCALE: NTS



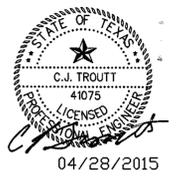
NO.	DATE	REVISION	APPROV.
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GALVESTON COUNTY WASHINGTON PARK		
ELECTRICAL DETAILS (SHEET 1 OF 2)		
AECOM		AECOM TECHNICAL SERVICES, INC. 5444 WESTHEIMER RD, SUITE 200 HOUSTON, TEXAS 77056 WWW.AECOM.COM TBPE REG. NO. F-3580
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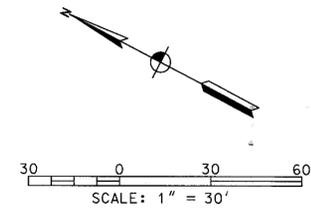
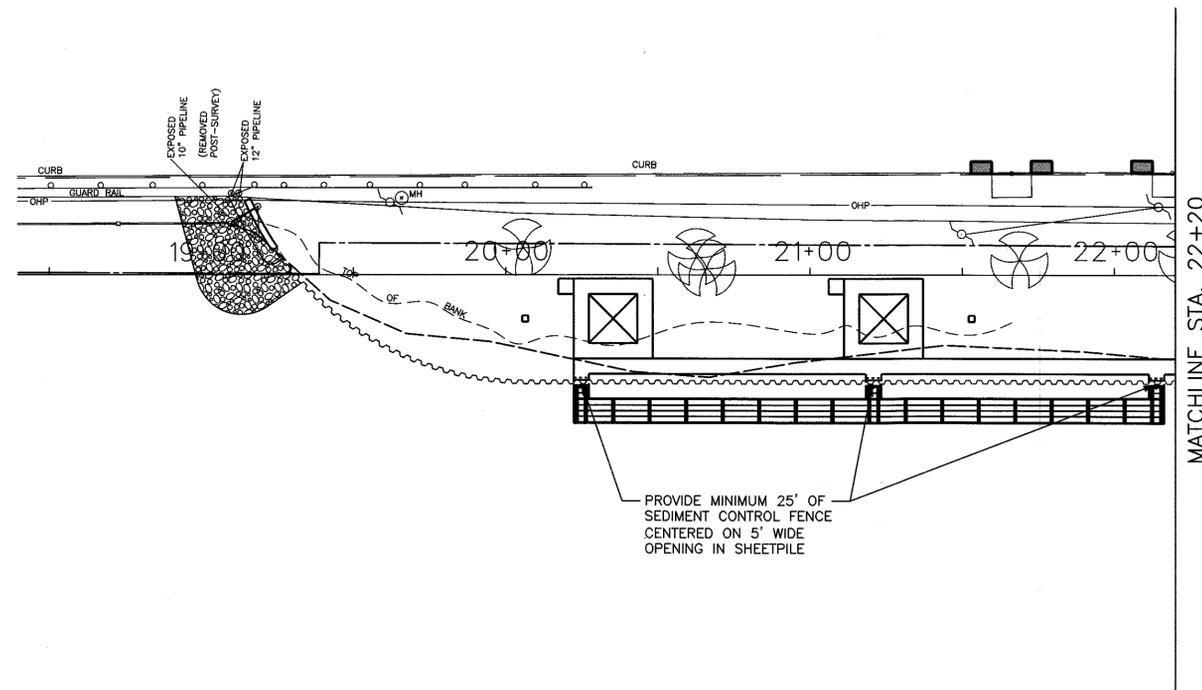


5 POLE FOUNDATION DETAIL
 SCALE: NTS



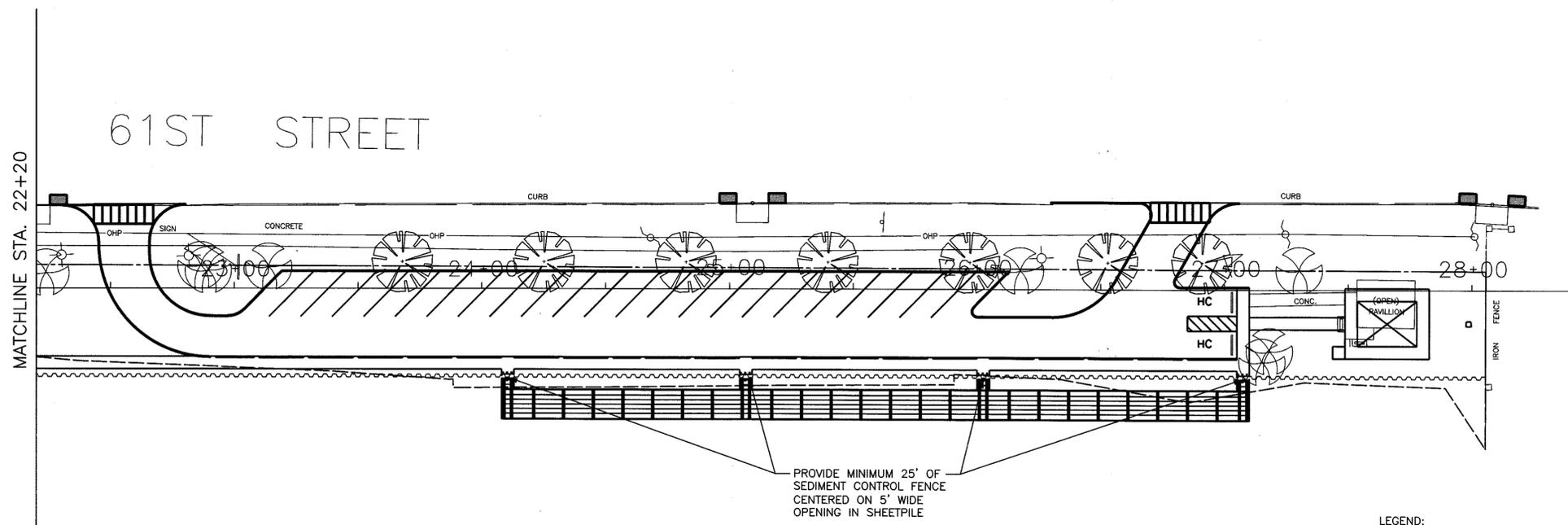
4			
3			
2			
1			
NO.	DATE	REVISION	APPROV.
GALVESTON COUNTY WASHINGTON PARK			
ELECTRICAL DETAILS (SHEET 2 OF 2)			
		AECOM TECHNICAL SERVICES, INC. 5444 WESTHEIMER RD, SUITE 200 HOUSTON, TEXAS 77056 WWW.AECOM.COM TBPE REG. NO. F-3580	
Unit	PUBLIC WORKS	Scale:	AS SHOWN
Designed	ZH	Checked	CT 3
Drawn	ZH	Approved	CT 1
Date	APRIL 2015	Project No.	60073413
		Sheet	26 of 35

SDATES
 SFILES
 STIMES



NOTES:

1. PRIOR TO START OF CONSTRUCTION CONTRACTOR SHALL INSTALL POLLUTION PREVENTION SYSTEMS AT LOCATION SHOWN ON PLANS.
2. CONTRACTOR SHALL MAINTAIN, REPAIR AND/OR REPLACE DAMAGED EROSION AND SEDIMENTATION CONTROL SYSTEMS THROUGHOUT THE DURATION OF THE CONTRACT.
3. CONTRACTOR SHALL PROVIDE PROTECTED STORAGE AREAS FOR CHEMICALS, PAINTS, SOLVENTS, FERTILIZERS AND OTHER POTENTIALLY TOXIC MATERIALS.
4. CONTRACTOR SHALL LOCATE FUEL/MATERIAL STORAGE AREAS AWAY FROM STORM WATER CONVEYANCE SYSTEMS. CONTRACTOR SHALL USE A LINER UNDER ABOVE GROUND STORAGE TANKS. CONTRACTOR SHALL USE FILTER FABRIC FENCING, HAY BALES, OR BERMS AROUND FUEL STORAGE AREAS.
5. CONTRACTOR SHALL ADVISE OWNER IMMEDIATELY, VERBALLY, AND IN WRITING, OF ANY FUEL OR TOXIC MATERIAL SPILLS ONTO THE PROJECT CONSTRUCTION AREA AND THE ACTIONS TAKEN TO REMEDY THE PROBLEM.
6. CONTRACTOR IS RESPONSIBLE FOR DISPOSING OF HIS FUELS, MATERIALS, AND CONTAMINATED EXCAVATIONS IN A LEGALLY APPROVED MANNER.
7. CONTRACTOR IS RESPONSIBLE FOR COMPLYING WITH ALL APPLICABLE ENVIRONMENTAL LAWS.
8. CONTRACTOR IS RESPONSIBLE FOR PROVIDING ADEQUATE MAINTAINED SANITARY FACILITIES.
9. CONTRACTOR SHALL BE RESPONSIBLE FOR STREET CLEANING, ON A DAILY BASIS, ALL MUD AND DIRT DEPOSITED ON THE EXISTING PAVEMENT DUE TO HIS CONSTRUCTION ACTIVITY.
10. CONTRACTOR SHALL PROVIDE A STABILIZED CONSTRUCTION EXIT.
11. SEDIMENT WILL BE REMOVED FROM BEHIND THE FILTER FABRIC FENCE WHEN IT BECOMES ABOUT ONE-THIRD OF THE HEIGHT OF THE FENCE.



O F F A T T S
B A Y O U

LEGEND:

- STABILIZED CONSTRUCTION EXIT
- SEDIMENT CONTROL FENCE
- SANDBAGS (USE SANDBAGS ON INLETS ALONG 61st STREET ADJACENT TO PROJECT AND DOWNSTREAM OF PROJECT)



Kristin L. Landry 4-28-15

4			
3			
2			
1			
NO.	DATE	REVISION	APPROV.

**GALVESTON COUNTY
WASHINGTON PARK**

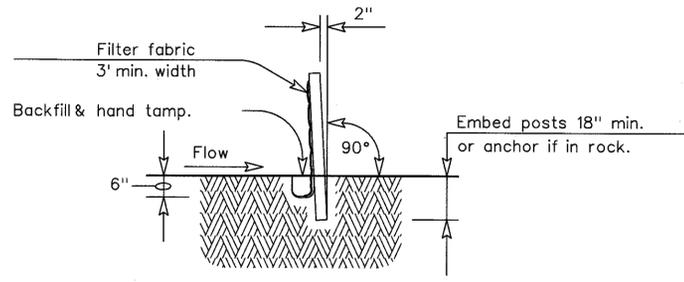
**STORM WATER POLLUTION
PREVENTION PLAN**

AECOM

AECOM TECHNICAL SERVICES, INC.
5444 WESTHEIMER RD, SUITE 200
HOUSTON, TEXAS 77056
WWW.AECOM.COM
TBPE REG. NO. F-3580

Unit	PUBLIC WORKS	Scale:	1"=30'	Date	APRIL 2015
Designed	LNH	Checked	WRB	Project No.	60073413
Drawn	JS	Approved	LNH	Sheet	27 of 35

SDATES \$
SFILES \$



SECTION A-A

SEDIMENT CONTROL FENCE USAGE GUIDELINES

A sediment control fence may be constructed near the downstream perimeter of a disturbed area along a contour to intercept sediment from overland runoff. A 2 year storm frequency may be used to calculate the flow rate to be filtered.

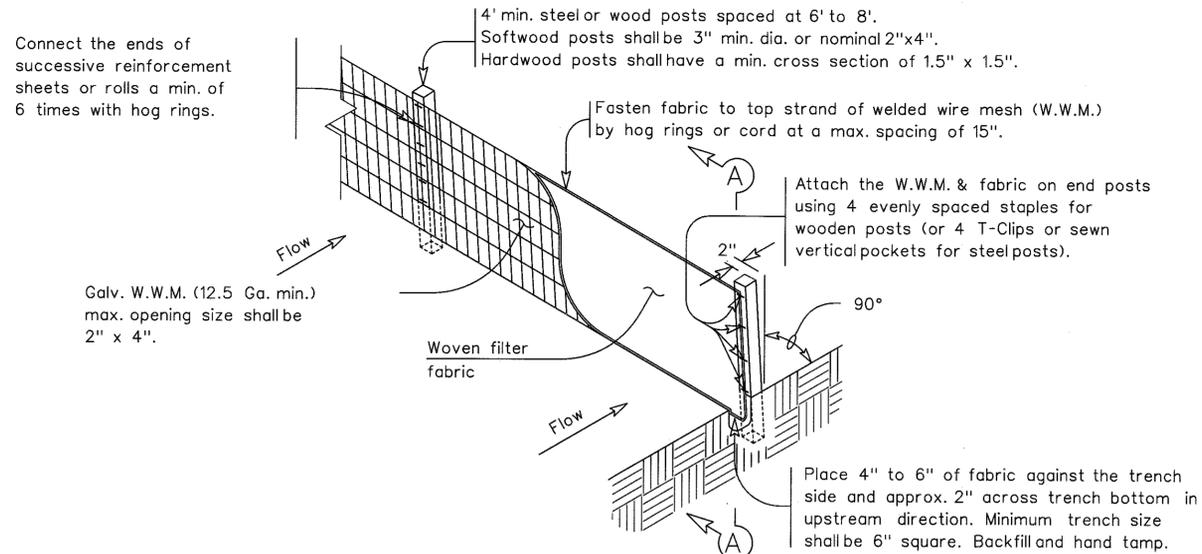
Sediment control fence should be sized to filter a max. flow through rate of 100 GPM/FT. Sediment control fence is not recommended to control erosion from a drainage area larger than 2 acres.

PLAN SHEET LEGEND

Sediment Control Fence — SCF —

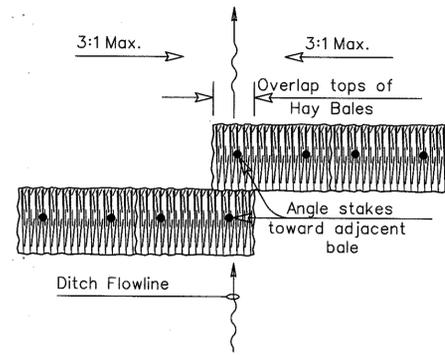
GENERAL NOTES

1. The guidelines shown hereon are suggestions only and may be modified by the Engineer.

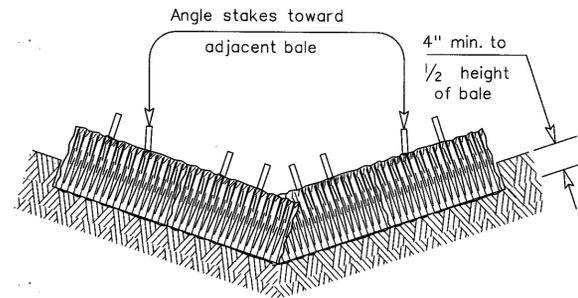


TEMPORARY SEDIMENT CONTROL FENCE

SCF



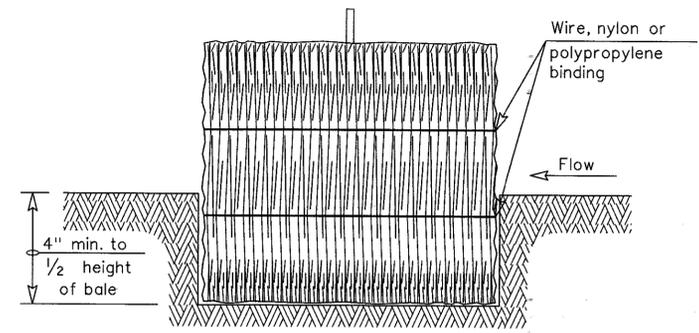
PLAN VIEW



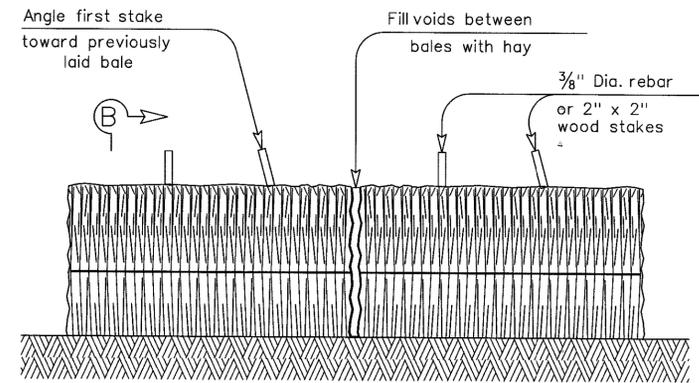
PROFILE VIEW

PLANS SHEET LEGEND

Baled Hay — BH —



SECTION B-B



BALED HAY FOR EROSION CONTROL

BH

GENERAL NOTES

- Hay bales shall be a minimum of 30" in length and weigh a minimum of 50 Lbs.
- Hay bales shall be bound by either wire or nylon or polypropylene string. The bales shall be composed entirely of vegetative matter.
- Hay bales shall be embedded in the soil a minimum of 4" and where possible 1/2 the height of the bale.
- Hay bales shall be placed in a row with ends tightly abutting the adjacent bales. The bales shall be placed with bindings parallel to the ground.
- Hay bales shall be securely anchored in place with 3/8" Dia. rebar or 2" x 2" wood stakes, driven through the bales. The first stake shall be angled towards the previously laid bale to force the bales together.
- The guidelines shown hereon are suggestions only and may be modified by the Engineer.

BALED HAY USAGE GUIDELINES

A Baled Hay installation may be constructed near the downstream perimeter of a disturbed area along a contour to intercept sediment from overland runoff. A two year storm frequency may be used to calculate the flow rate to be filtered. The installation should be sized to filter a maximum flow thru rate of 5 GPM/FT² of cross sectional area. Baled hay may be used at the following locations:

- Where the runoff approaching the baled hay flows over disturbed soil for less than 100'. If the slope of the disturbed soil exceeds 10%, the length of slope upstream the baled hay should be less than 50'.
- Where the installation will be required for less than 3 months.
- Where the contributing drainage area is less than 1/2 acre.

For Baled Hay installations in small ditches, the additional following considerations apply:

- The ditch sideslopes should be graded as flat as possible to maximize the drainage flowrate thru the hay.
- The ditch should be graded large enough to contain the overtopping drainage when sediment has filled to the top of the baled hay.

Bales should be replaced usually every 2 months or more often during wet weather when loss of structural integrity is accelerated.

Texas Department of Transportation
Design Division (Roadway)

TEMPORARY EROSION,
SEDIMENT AND WATER
POLLUTION CONTROL MEASURES
FENCE & BALED HAY

EC(1)-93

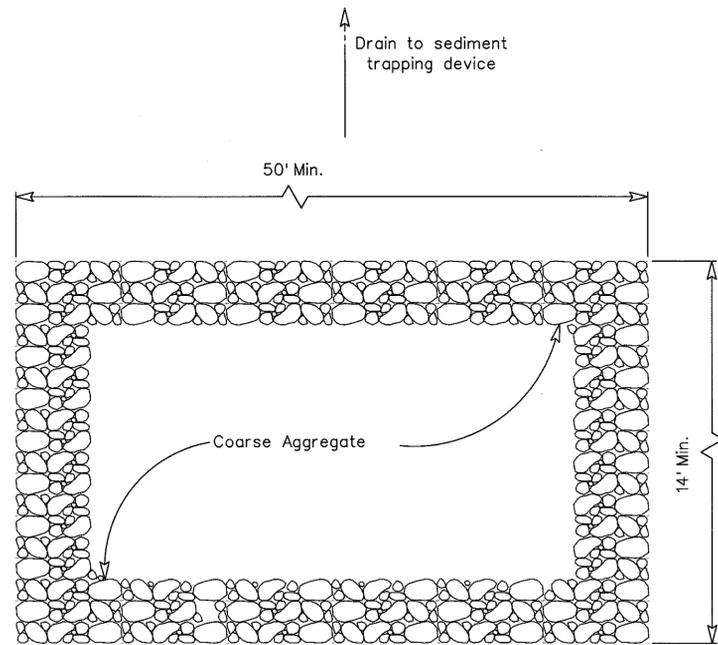
FILE: EC193.DGN	DN: HEJ	CK: HEJ	DW: BGD	CK:
© TxDOT JUNE 1993	DISTRICT	FEDERAL AID PROJECT		SHEET
REVISIONS				
COUNTY		CONTROL	SECT	JOB
				HIGHWAY

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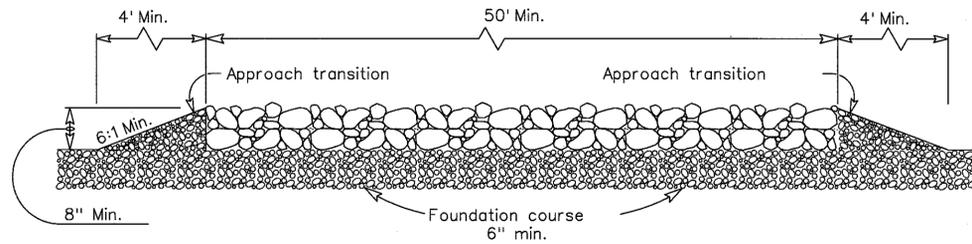
LEVELS DISPLAYED	
1	

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LEVELS DISPLAYED	
1	



PLAN

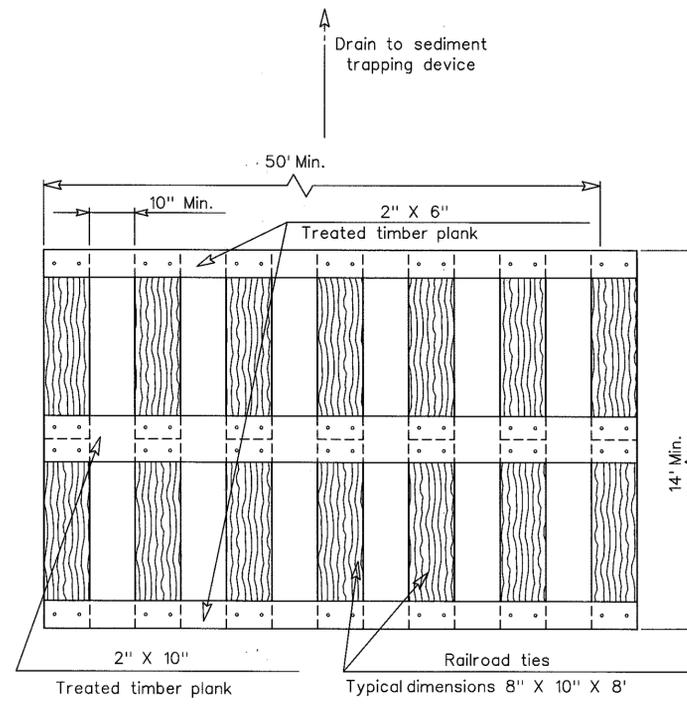


PROFILE

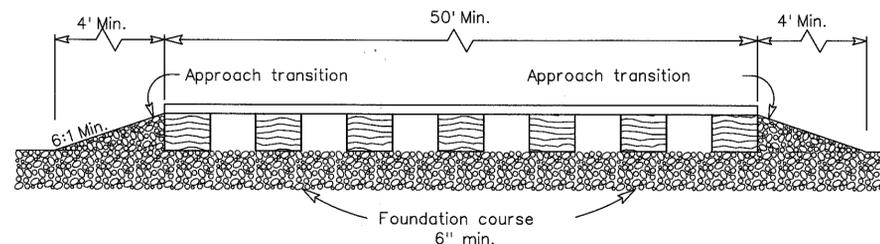
CONSTRUCTION EXIT (TYPE 1)

GENERAL NOTES

1. The length of the type 1 construction exit shall be as indicated on the plans, but not less than 50'.
2. The coarse aggregate should be open graded with a size of 4" to 8".
3. The approach transitions should be no steeper than 6:1 and constructed as directed by the Engineer.
4. The construction exit foundation course shall be flexible base, bituminous concrete, portland cement concrete or other material as approved by the Engineer.
5. The construction exit shall be graded to allow drainage to a sediment trapping device.
6. The guidelines shown hereon are suggestions only and may be modified by the Engineer.



PLAN

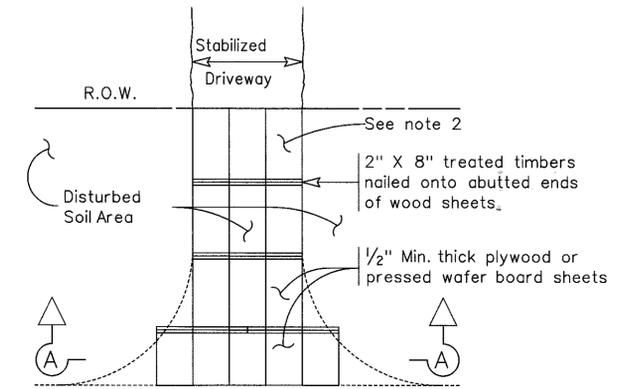


PROFILE

CONSTRUCTION EXIT (TYPE 2)

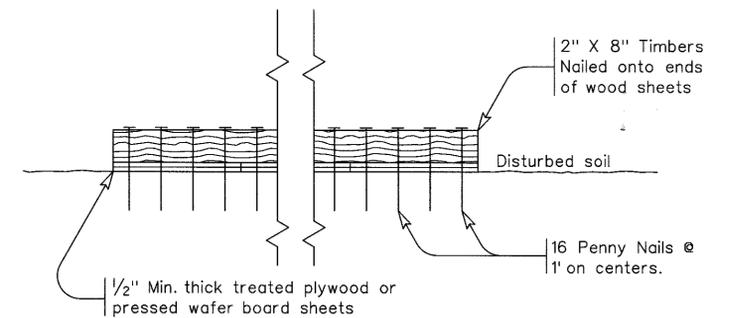
GENERAL NOTES

1. The length of the type 2 construction exit shall be as indicated on the plans, but not less than 50'.
2. The treated timber planks shall be attached to the railroad ties with 1/2" x 6" min. lag bolts. Other fasteners may be used as approved by the Engineer.
3. The treated timber planks shall be #2 grade min., and should be free from large and loose knots.
4. The approach transitions shall be no steeper than 6:1 and constructed as directed by the Engineer.
5. The construction exit foundation course shall be flexible base, bituminous concrete, portland cement concrete or other material as approved by the Engineer.
6. The construction exit should be graded to allow drainage to a sediment trapping device.
7. The guidelines shown hereon are suggestions only and may be modified by the Engineer.



Paved Roadway

PLAN



SECTION A-A

CONSTRUCTION EXIT (TYPE 3)

GENERAL NOTES

1. The length of the type 3 construction exit shall be as shown on the plans, or as directed by the Engineer.
2. The type 3 construction exit may be constructed from open graded crushed stone with a size of two to four inches spread a min. of 4" thick to the limits shown on the plans.
3. The treated timber planks shall be #2 grade min., and should be free from large and loose knots.
4. The guidelines shown hereon are suggestions only and may be modified by the Engineer.

Texas Department of Transportation
Design Division (Roadway)

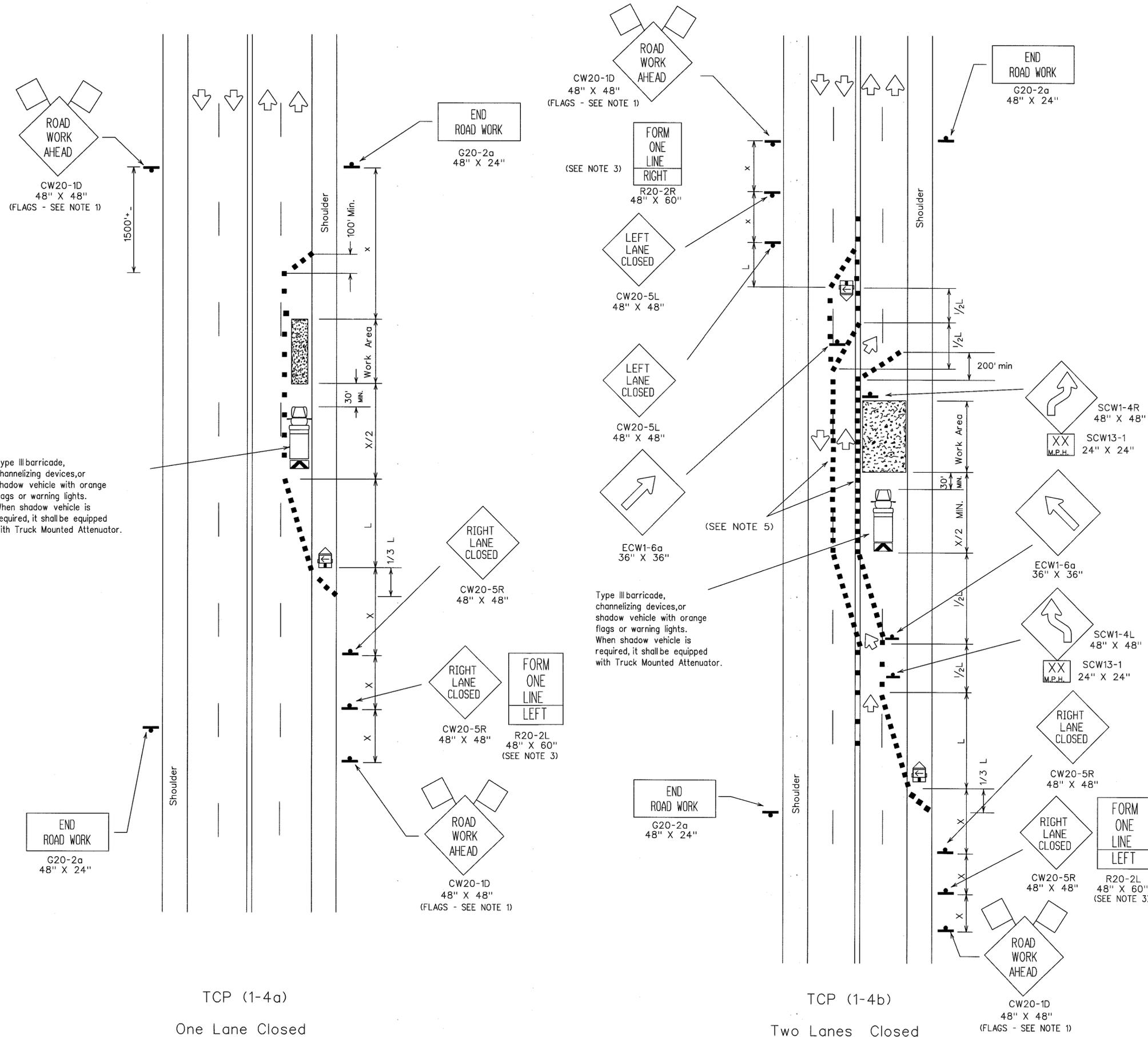
TEMPORARY EROSION,
SEDIMENT AND WATER
POLLUTION CONTROL MEASURES
CONSTRUCTION EXITS

EC(3)-93

FILE: EC393.DGN	DN: HEJ	CK: HEJ	DW: BGD	CK:
© TxDOT JUNE 1993	DISTRICT	FEDERAL AID PROJECT		SHEET
REVISIONS				
	COUNTY	CONTROL SECT	JOB	HIGHWAY

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DN:	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
CK:	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32
DW:	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48
CK:	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64



LEGEND

	Type III Barricade		Channelizing Devices		Flag
	Heavy Work Vehicle		Truck Mounted Attenuator		
	Trailer Mounted Flashing Arrow Panel		Portable Changeable Message Sign		
	Flagger		Sign Post		

Posted Speed x	Formula	Minimum Desirable Taper Lengths x x			Suggested Maximum Spacing of Device		Minimum Sign Spacing X Distance
		10' Offset	11' Offset	12' Offset	On a Taper	On a Tangent	
30	L = $\frac{WS^2}{60}$	150'	165'	180'	30'	60'-75'	120'
35		205'	225'	245'	35'	70'-90'	160'
40		265'	295'	320'	40'	80'-100'	240'
45	L = WS	450'	495'	540'	45'	90'-110'	320'
50		500'	550'	600'	50'	100'-125'	400'
55		550'	605'	660'	55'	110'-140'	500'
60		600'	660'	720'	60'	120'-150'	* 600'
65		650'	715'	780'	65'	130'-165'	* 700'
70		700'	770'	840'	70'	140'-175'	* 800'

x Conventional Roads Only
 x x Taper lengths have been rounded off.
 L-Length of Taper (FT.) W-Width of Offset (FT.) S-Posted Speed (MPH)

TYPICAL USAGE:

	MOBILE	SHORT DURATION	SHORT TERM STATIONARY	INTERMEDIATE TERM STATIONARY	LONG TERM STATIONARY
		✓	✓		

- GENERAL NOTES:
- Unless otherwise stated in the plans, flags attached to the signs are REQUIRED.
 - All traffic control devices illustrated are REQUIRED, except those denoted with the triangle symbol may be omitted when stated elsewhere in the plans.
 - The FORM ONE LANE LEFT sign may be used following the RIGHT LANE CLOSED sign. Spacing distance between signs should be the minimum distance indicated.
 - ROAD WORK AHEAD sign may be repeated if the visibility of the work zone is less than 1500'.
 - If pavement markings are not removed and traffic is directed over a double yellow centerline, the maximum spacing of channelizing devices in a tangent section should be no greater than 10 feet.

Only pre-qualified products shall be used. A list of compliant products and their sources may be obtained by writing or faxing:

Standards Engineer
 Traffic Operations Division - TE
 Texas Department of Transportation
 125 East 11th Street
 Austin, Texas 78701-2483
 Phone (512) 416-3335
 Fax (512) 416-3161
 E-mail TRF-STANDARD@mailgw.dot.state.tx.us

The requirement for shadow vehicles will be listed in the project GENERAL NOTES, Item 502, Barricades, Signs and Traffic Handling.

STANDARD PLANS
 TEXAS DEPARTMENT OF TRANSPORTATION
 Traffic Operations Division

TRAFFIC CONTROL PLAN

TCP(1-4)-98

© TxDOT December 1985		DN- LR	CK- MT	DW- DN	CK- MT	NEG NO.:
REVISIONS	STATE DISTRICT	FEDERAL REGION	FEDERAL AID PROJECT		SHEET	
2-94		6				
8-95			COUNTY	CONTROL SECTION	JOB	HIGHWAY
1-97						
4-98						

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SIGN SUPPORT DESCRIPTIVE CODES

(Descriptive Codes correspond to project estimate and quantities sheets)

SM RD SGN ASSM TY XXXXX(X)XX(X-XXXX)

Post Type

- FRP = Fiberglass Reinforced Plastic Pipe (see SMD(FRP))
- TWT = Thin-Walled Tubing (see SMD(TWT))
- 10BWG = 10 BWG Tubing (see SMD(SLIP-1) to (SLIP-3))
- S80 = Schedule 80 Pipe (see SMD(SLIP-1) to (SLIP-3))

Number of Posts (1 or 2)

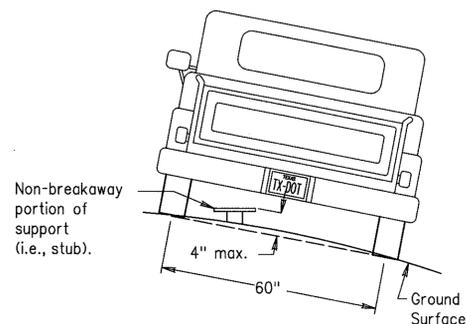
Anchor Type

- UA = Universal Anchor - Concreted (see SMD(FRP) and (TWT))
- UB = Universal Anchor - Bolted down (see SMD(FRP) and (TWT))
- WS = Wedge Anchor Steel - (see SMD(TWT))
- WP = Wedge Anchor Plastic (see SMD(TWT))
- SA = Slipbase - Concreted (see SMD(SLIP-1) to (SLIP-3))
- SB = Slipbase - Bolted Down (see SMD(SLIP-1) to (SLIP-3))

Sign Mounting Designation

- P = Prefab. "Plain" (see SMD(SLIP-1) to (SLIP-3), (TWT), (FRP))
- T = Prefab. "T" (see SMD(SLIP-1) to (SLIP-3), (TWT))
- U = Prefab. "U" (see SMD(SLIP-1) to (SLIP-3))
- IF REQUIRED
- 1EXT or 2EXT = Number of Extensions (see SMD(SLIP-1) to (SLIP-3), (TWT))
- BM = Extruded Wind Beam (see SMD(SLIP-1) to (SLIP-3))
- WC = 1.12 * /ft Wing Channel (see SMD(SLIP-1) to (SLIP-3))
- EXAL = Extruded Aluminum Sign Panels (see SMD(SLIP-3))

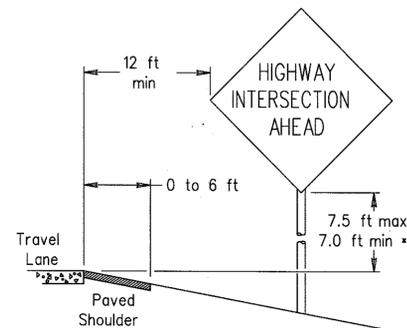
REQUIRED CLEARANCE FOR BREAKAWAY SUPPORT



To avoid vehicle undercarriage snagging, any substantial remains of a breakaway support, when it is broken away, should not project more than 4 inches above a 60-inch chord (i.e., typical space between wheelpaths).

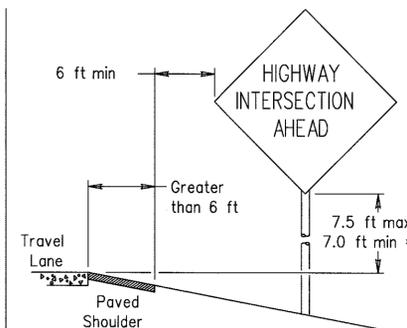
SIGN LOCATION

PAVED SHOULDERS



LESS THAN 6 FT. WIDE

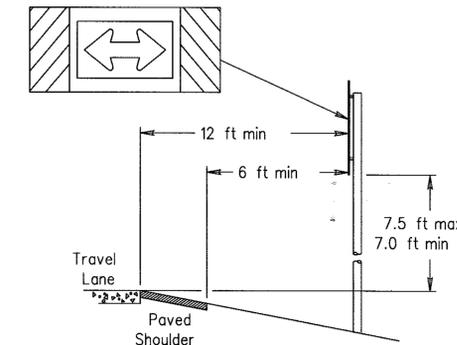
When the shoulder is 6 ft. or less in width, the sign must be placed at least 12 ft. from the edge of the travel lane.



GREATER THAN 6 FT. WIDE

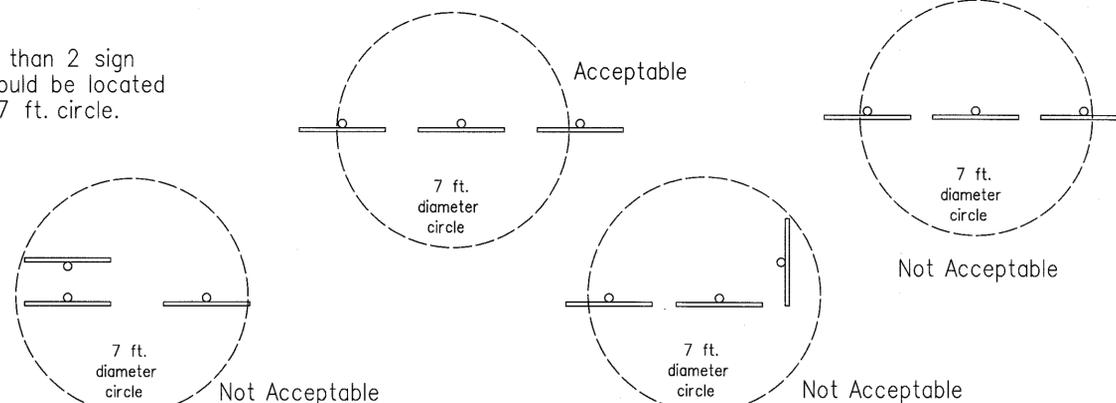
When the shoulder is greater than 6 ft in width, the sign must be placed at least 6 ft. from the edge of the shoulder.

T-INTERSECTION

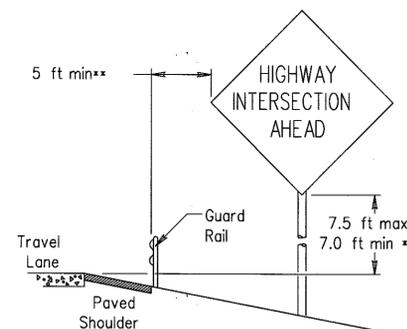


When this sign is needed at the end of a two-lane, two way roadway, the right edge of the sign should be in line with the centerline of the roadway. Place as close to ROW as practical.

No more than 2 sign posts should be located within a 7 ft. circle.

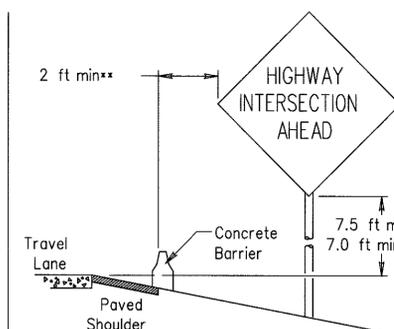


BEHIND BARRIER

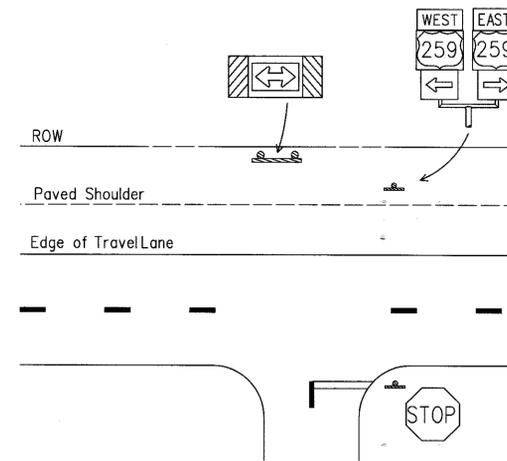


BEHIND GUARDRAIL

**Sign clearance based on distance required for proper guard rail or concrete barrier performance.



BEHIND CONCRETE BARRIER



* Signs shall be mounted using the following condition that results in the greatest sign elevation:

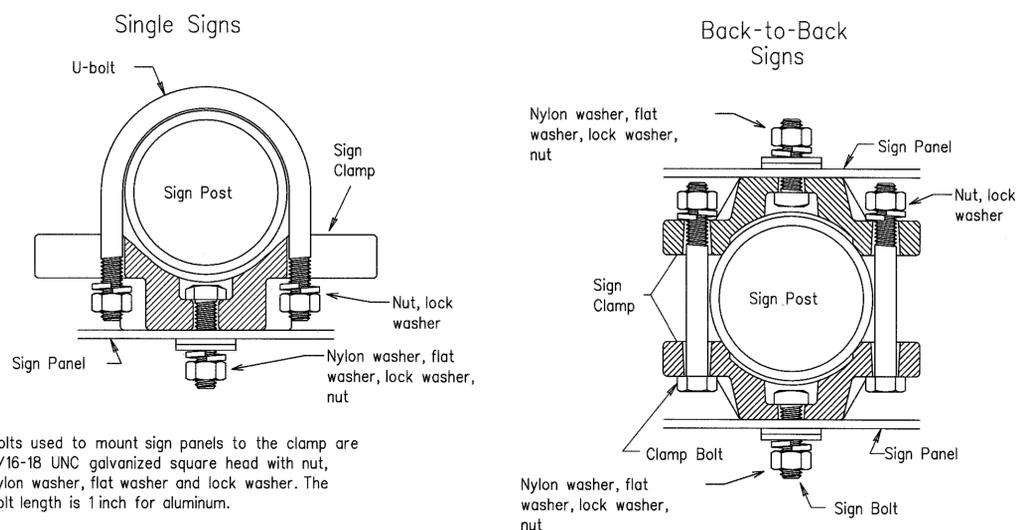
- (1) a minimum of 7 to a maximum of 7.5 feet above the edge of the travel lane or
- (2) a minimum of 7 to a maximum of 7.5 feet above the grade at the base of the support when sign is installed on the backslope.

The maximum values may be increased when directed by the Engineer.

See the Traffic Operations Division website for detailed drawings of sign clamps, Triangular Slipbase System components and Wedge Anchor System components.

The website address is:
<http://www.txdot.gov/publications/traffic.htm>

TYPICAL SIGN ATTACHMENT DETAIL



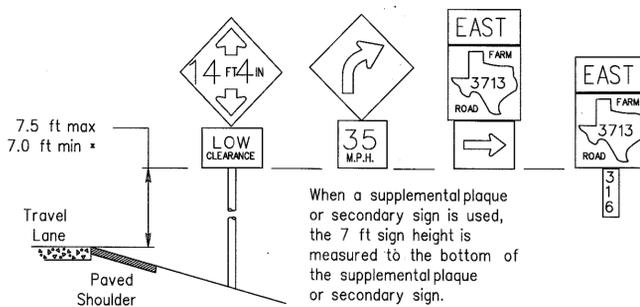
Bolts used to mount sign panels to the clamp are 5/16-18 UNC galvanized square head with nut, nylon washer, flat washer and lock washer. The bolt length is 1 inch for aluminum.

When two sign clamps are used to mount signs back-to-back, use a 5/16-18 UNC galvanized hex head per ASTM A307 with nut and helical-spring lock washer. The approximate bolt lengths for various post sizes and sign clamp types are given in the table at right. The bolt length may need to be adjusted depending upon field conditions.

Sign clamps may be either the specific size clamp or the universal clamp.

Pipe Diameter	Approximate Bolt Length	
	Specific Clamp	Universal Clamp
2" nominal	3"	3 or 3 1/2"
2 1/2" nominal	3 or 3 1/2"	3 1/2 or 4"
3" nominal	3 1/2 or 4"	4 1/2"

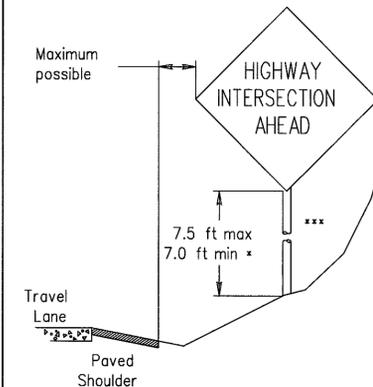
SIGNS WITH PLAQUES



When a supplemental plaque or secondary sign is used, the 7 ft sign height is measured to the bottom of the supplemental plaque or secondary sign.

RESTRICTED RIGHT-OF-WAY

(When 6 ft. min. is not possible.)

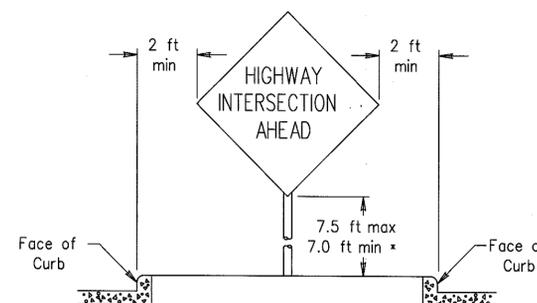


Right-of-way restrictions may be created by rocks, water, vegetation, forest, buildings, a narrow island, or other factors.

In situations where a lateral restriction prevents the minimum horizontal clearance from the edge of the travel lane, signs should be placed as far from the travel lane as practical.

*** Post may be shorter if protected by guardrail or if Engineer determines the post could not be hit due to extreme slope.

CURB & GUTTER OR RAISED ISLAND

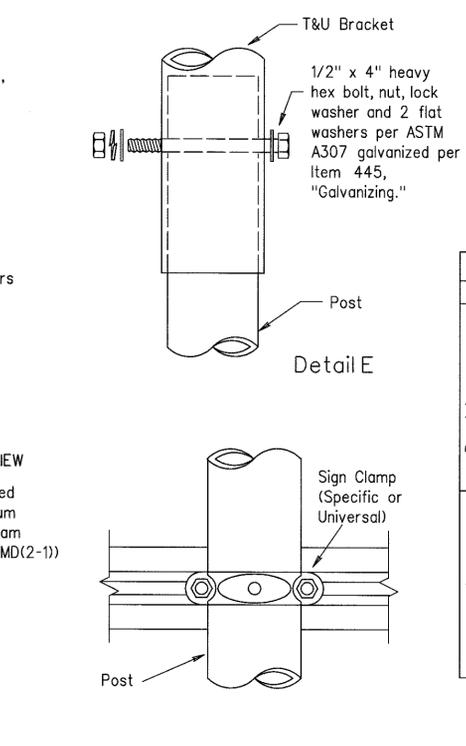
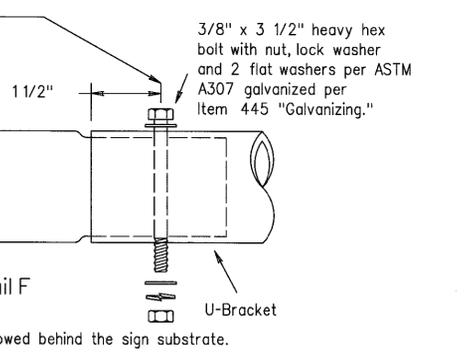
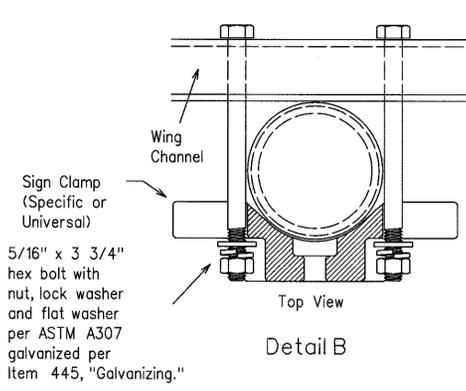
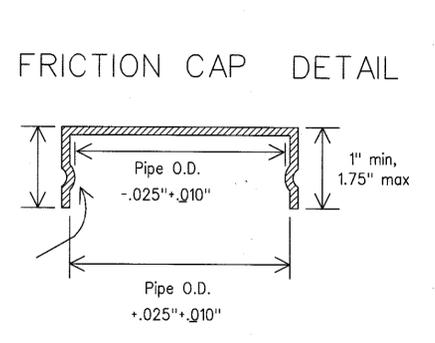
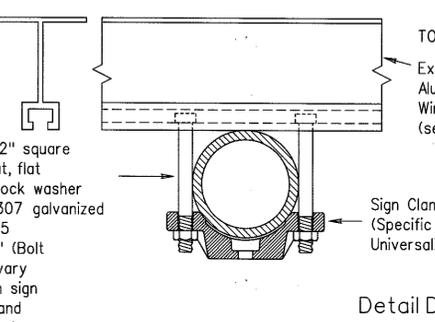
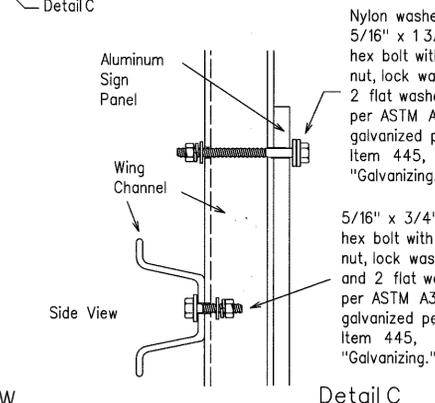
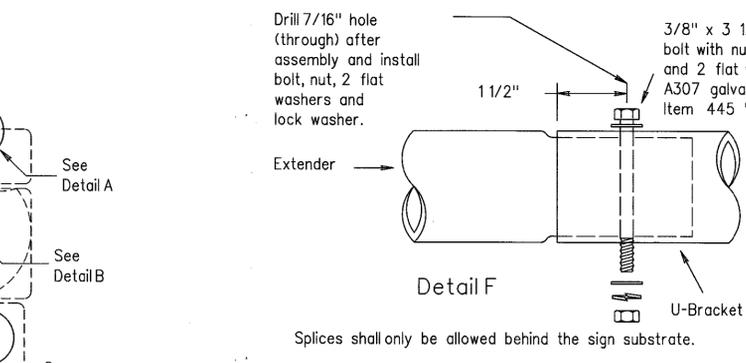
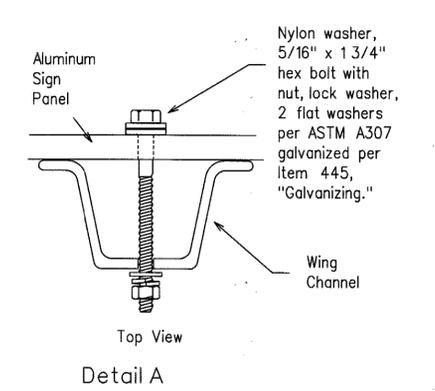
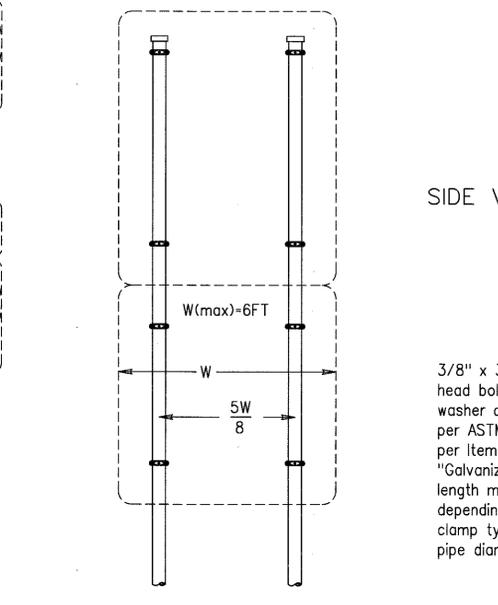
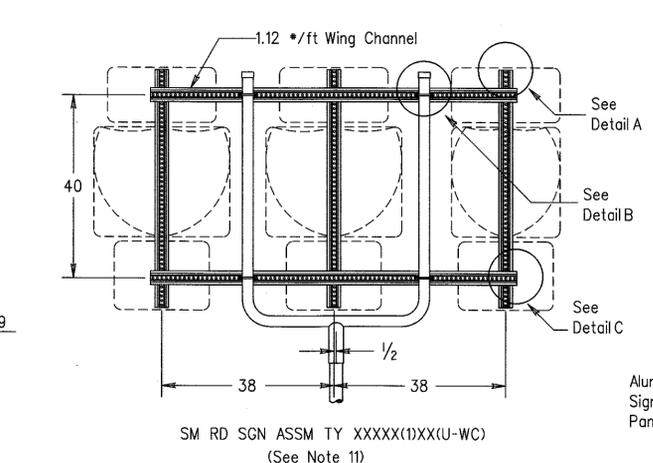
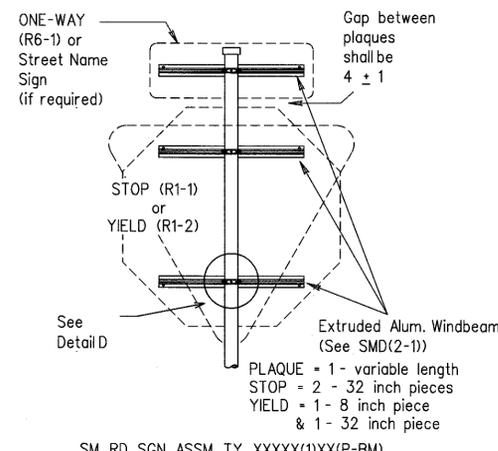
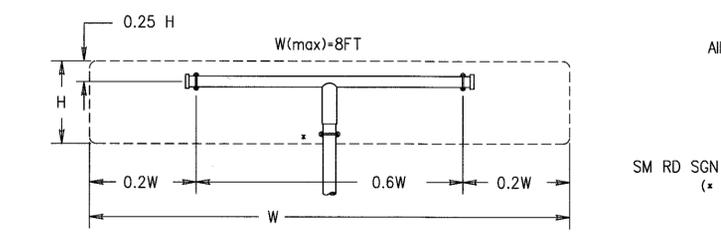
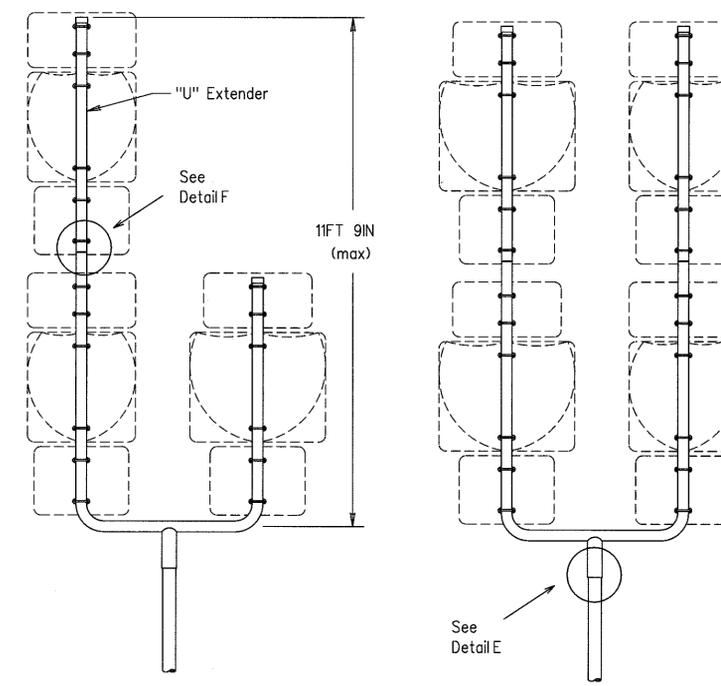
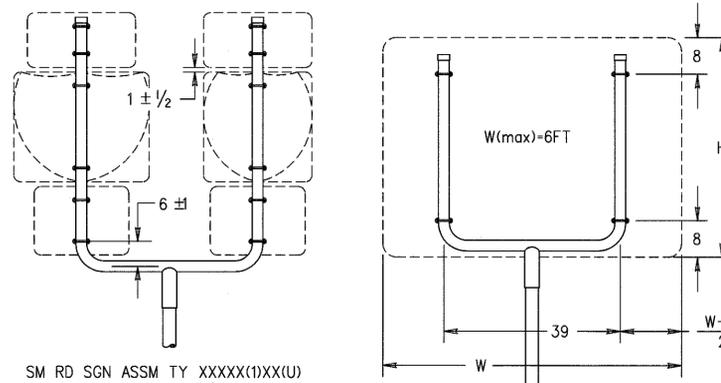
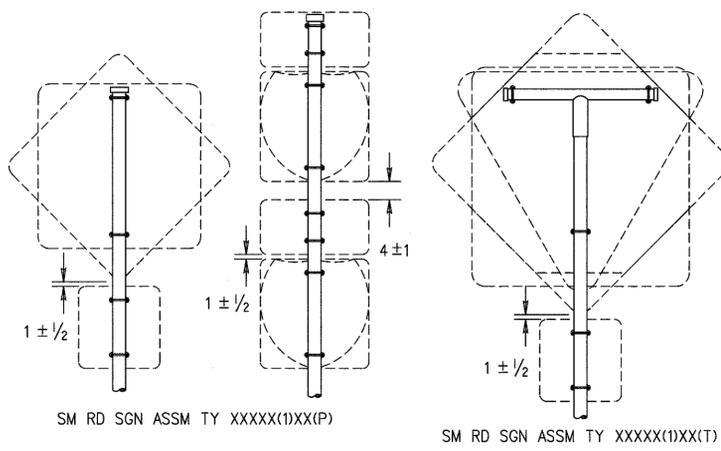


SIGN MOUNTING DETAILS SMALL ROADSIDE SIGNS GENERAL NOTES & DETAILS

SMD(GEN)-08

© TxDOT July 2002	DN: TxDOT	CK: TxDOT	DW: TxDOT	CK: TxDOT
9-08	REVISIONS	CONT	SECT	JOB
				HIGHWAY
		DIST	COUNTY	SHEET NO.

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Friction caps may be manufactured from hot rolled or cold rolled steel sheets. The minimum sheet metal thickness shall be 24 gauge for all cap sizes. The rim edges shall be reasonably straight and smooth. Caps shall be sized and formed in such a manner as to produce a drive-on friction fit and have no tendency to rock when seated on the pipe. The depth shall be sufficient to give positive protection against entrance of rainwater. They shall be free of sharp creases or indentations and show no evidence of metal fracture. Caps shall have an electrodeposited coating of zinc in accordance with the requirements of ASTM B633 Class FE/ZN 8.

GENERAL NOTES:

SIGN SUPPORT	OF POSTS	MAX. SIGN AREA
10 BWG	1	16 SF
10 BWG	2	32 SF
Sch 80	1	32 SF
Sch 80	2	64 SF

- The Engineer may require that a Schedule 80 post be used in place of a 10 BWG where a sign height is abnormally high due to a fill slope.
- Sign supports shall not be spliced except where shown. Sign support posts shall not be spliced.
- Aluminum sign blanks shall conform to Departmental Material Specifications DMS-710 and shall have the following minimum thicknesses: 0.080 for signs less than 7.5 sq. ft., 0.100 for signs 7.5 to 15 sq. ft., and 0.125 for signs greater than 15 sq. ft.
- Signs that require specific supports due to reasons in addition to windloading are indicated on the "REQUIRED SUPPORT" table on this sheet.
- For horizontal rectangular signs fabricated from flat aluminum, T-brackets are used for signs 24 inches or less in height. U-brackets are used for signs of greater height.
- When two triangular slipbase supports are used to support a single sign, they shall not be "rigidly" connected to each other except through the sign panel. This will allow each support to act independently when impacted by an errant vehicle.
- Wing channel shall meet ASTM A 1011 SS Gr 50 and be galvanized per ASTM A 123.
- Excess pipe, wing channel, or windbeam shall be cut off so that it does not extend beyond the sign panel (i.e., excess support shall not be visible when the sign is viewed from the front.) Repair galvanized coating at cut support ends per Item 445, "Galvanizing."
- Additional route markers may be added vertically, provided the total sign area does not exceed the maximum allowable amount per Note 1.
- Additional sign clamp required on the "T-bracket" post for 24 inch height signs. Place the clamp 3 inches above bottom of sign when possible.
- Post open ends shall be fitted with Friction Caps.
- Sign blanks shall be the sizes and shapes shown on the plans.

REQUIRED SUPPORT	
SIGN DESCRIPTION	SUPPORT
48-inch STOP sign (R1-1)	TY 10BWG(1)XX(T) TY 10BWG(1)XX(P-BM)
60-inch YIELD sign (R1-2)	TY 10BWG(1)XX(T) TY 10BWG(1)XX(P-BM)
48x16-inch ONE-WAY sign (R6-1)	TY 10BWG(1)XX(T) TY 10BWG(1)XX(P-BM)
36x48, 48x36, and 48x48-inch signs	TY 10BWG(1)XX(T)
48x60-inch signs	TY S80(1)XX(T)
48x48-inch signs (diamond or square)	TY 10BWG(1)XX(T)
48x60-inch signs	TY S80(1)XX(T)
48-inch Advance School X-ing sign (S1-1)	TY 10BWG(1)XX(T)
48-inch School X-ing sign (S2-1)	TY 10BWG(1)XX(T)
Large Arrow sign (W1-6 & W1-7)	TY 10BWG(1)XX(T)

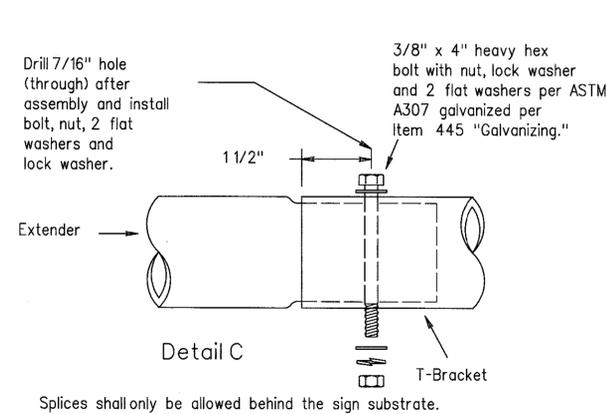
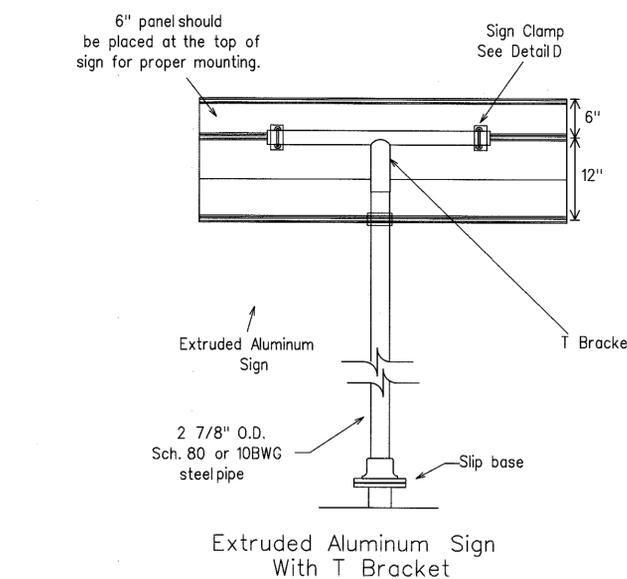
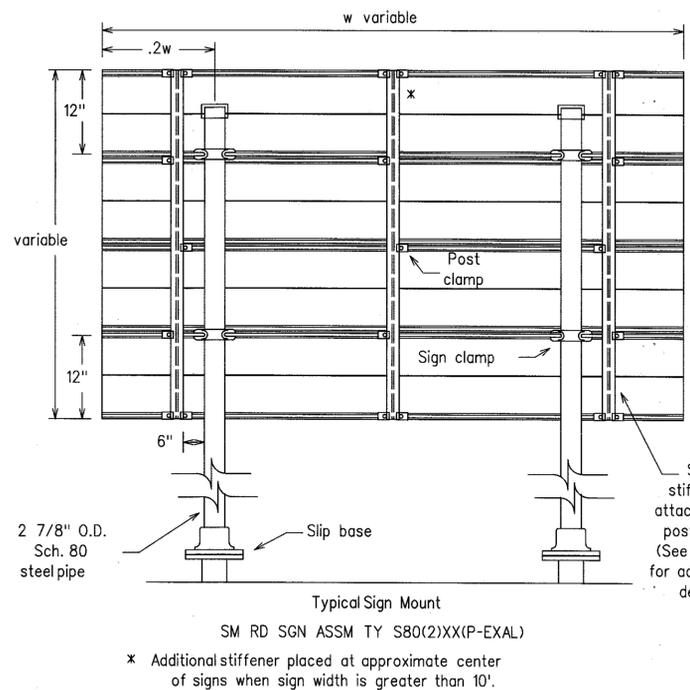
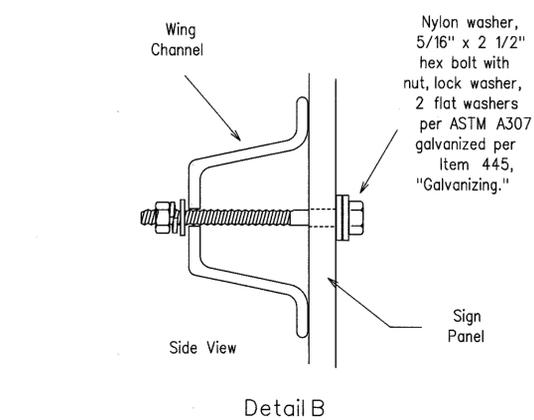
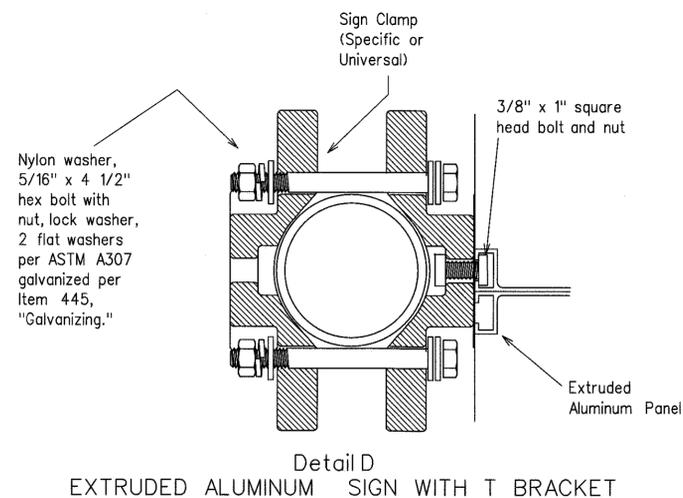
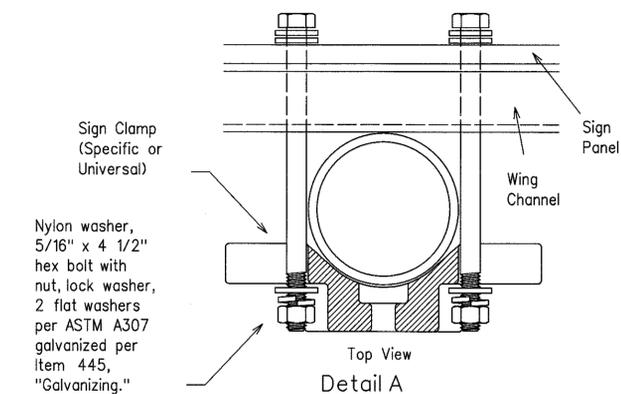
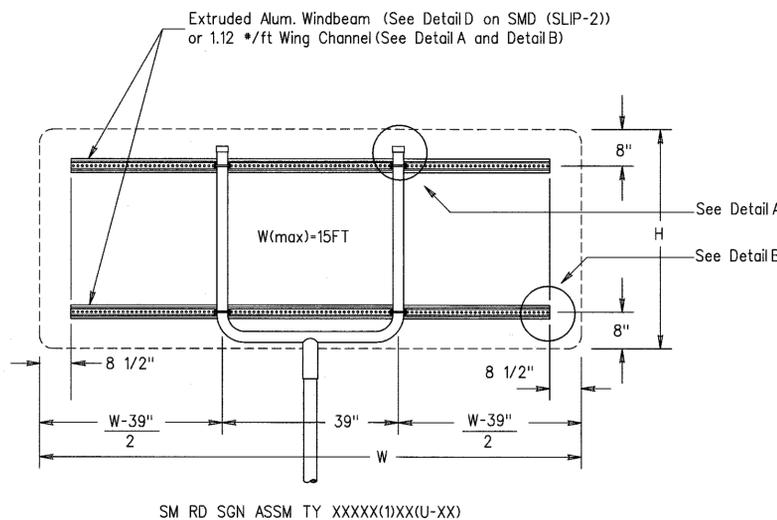
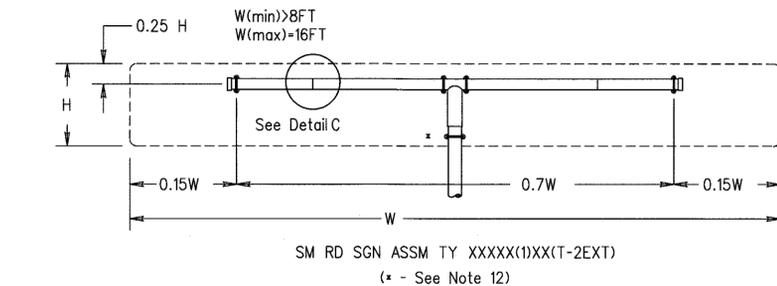
Texas Department of Transportation
Traffic Operations Division

SIGN MOUNTING DETAILS
SMALL ROADSIDE SIGNS
TRIANGULAR SLIPBASE SYSTEM
SMD(SLIP-2)-08

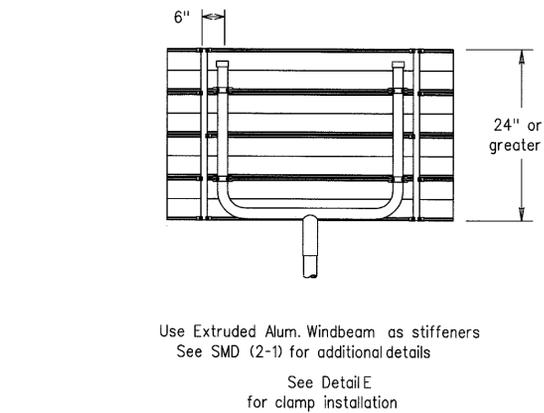
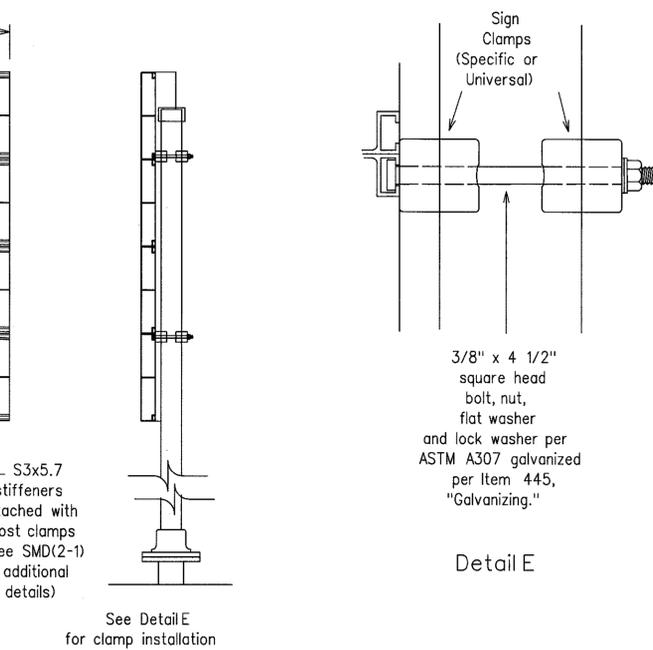
© TxDOT July 2002	DN: TxDOT	CK: TxDOT	DW: TxDOT	CK: TxDOT
9-08	REVISIONS	CONT	SECT	JOB
				HIGHWAY
			DIST	COUNTY
				SHEET NO.

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DATE: FILE:



Splices shall only be allowed behind the sign substrate.



GENERAL NOTES:

- | SIGN SUPPORT | * OF POSTS | MAX. SIGN AREA |
|--------------|------------|----------------|
| 10 BWG | 1 | 16 SF |
| 10 BWG | 2 | 32 SF |
| Sch 80 | 1 | 32 SF |
| Sch 80 | 2 | 64 SF |
- The Engineer may require that a Schedule 80 post be used in place of a 10 BWG where a sign height is abnormally high due to a fill slope.
- Sign supports shall not be spliced except where shown. Sign support posts shall not be spliced.
- Aluminum sign blanks shall conform to Departmental Material Specifications DMS-7110 and shall have the following minimum thicknesses: 0.080 for signs less than 7.5 sq. ft., 0.100 for signs 7.5 to 15 sq. ft., and 0.125 for signs greater than 15 sq. ft.
- Signs that require specific supports due to reasons in addition to windloading are indicated on the "REQUIRED SUPPORT" table on this sheet.
- For horizontal rectangular signs fabricated from flat aluminum, T-brackets are used for signs 24 inches or less in height. U-brackets are used for signs of greater height.
- When two triangular slipbase supports are used to support a single sign, they shall not be "rigidly" connected to each other except through the sign panel. This will allow each support to act independently when impacted by an errant vehicle.
- Wing channel shall meet ASTM A 1011 SS Gr 50 and be galvanized per ASTM A 123.
- Excess pipe, wing channel, or windbeam shall be cut off so that it does not extend beyond the sign panel (i.e., excess support shall not be visible when the sign is viewed from the front.) Repair galvanized coating at cut support ends per Item 445, "Galvanizing."
- Sign blanks shall be the sizes and shapes shown on the plans.
- Additional sign clamp required on the "T-bracket" post for 24 inch high signs. Place the clamp 3 inches above bottom of sign when possible.
- Post open ends shall be fitted with Friction Caps.

REQUIRED SUPPORT		
SIGN DESCRIPTION	SUPPORT	
Regulatory	48-inch STOP sign (R1-1)	TY 10BWG(1)XX(T) TY 10BWG(1)XX(P-BM)
	60-inch YIELD sign (R1-2)	TY 10BWG(1)XX(T) TY 10BWG(1)XX(P-BM)
	48x16-inch ONE-WAY sign (R6-1)	TY 10BWG(1)XX(T) TY 10BWG(1)XX(P-BM)
	36x48, 48x36, and 48x48-inch signs	TY 10BWG(1)XX(T)
Warning	48x60-inch signs	TY S80(1)XX(T)
	48x48-inch signs (diamond or square)	TY 10BWG(1)XX(T)
	48x60-inch signs	TY S80(1)XX(T)
	48-inch Advance School X-ing sign (S1-1)	TY 10BWG(1)XX(T)
	48-inch School X-ing sign (S2-1)	TY 10BWG(1)XX(T)
Large Arrow sign (W1-6 & W1-7)	TY 10BWG(1)XX(T)	

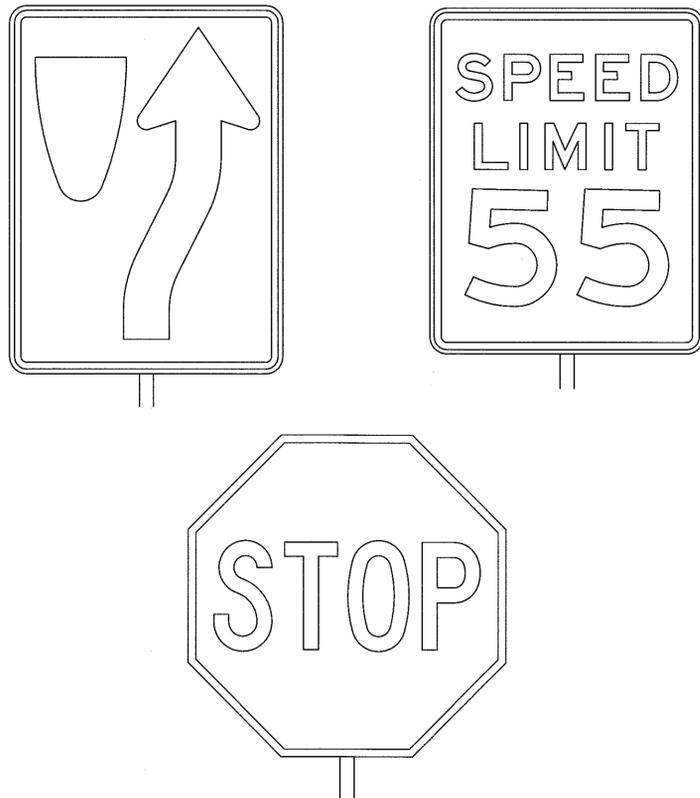
Texas Department of Transportation
Traffic Operations Division

SIGN MOUNTING DETAILS
SMALL ROADSIDE SIGNS
TRIANGULAR SLIPBASE SYSTEM
SMD(SLIP-3)-08

© TxDOT July 2002	DN: TxDOT	CK: TxDOT	DW: TxDOT	CK: TxDOT
9-08 REVISIONS	CONT	SECT	JOB	HIGHWAY
	DIST	COUNTY	SHEET NO.	

REQUIREMENTS FOR REGULATORY SIGNS

TYPICAL EXAMPLES



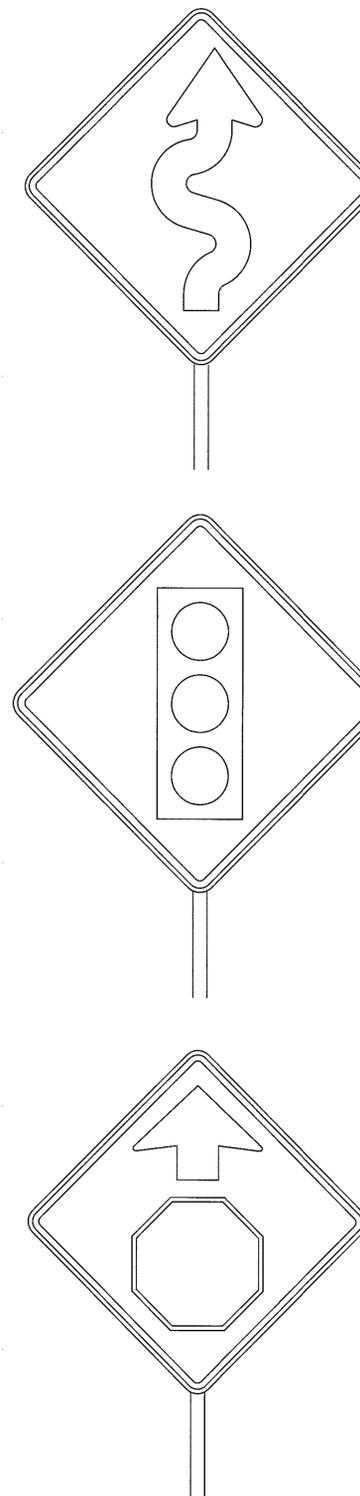
DEPARTMENTAL MATERIAL SPECIFICATIONS		
ALUMINUM SIGN BLANKS	DMS-7110	
	Square Ft.	Min. Thickness
	Less than 7.5	0.080
	7.5 to 15	0.100
	Greater than 15	0.125
SIGN FACE MATERIALS	DMS-8300	
USAGE	COLOR	SIGN FACE MATERIAL
BACKGROUND	ALL	TYPE C SHEETING
LEGEND & BORDERS	WHITE	TYPE C SHEETING
LEGEND & BORDERS	BLACK	ACRYLIC NON-REFLECTIVE FILM

GENERAL NOTES:

1. Signs to be furnished shall be as detailed elsewhere in the plans and/or as shown on sign tabulation sheet. Standard sign designs and arrow dimensions can be found in the "Standard Highway Sign Designs for Texas" (SHSD).
2. Regulatory sign legend shall use the Federal Highway Administration (FHWA) Standard Highway Alphabets (B, C, D, E, Emod or F).
3. Lateral spacing between letters and numerals shall conform with the SHSD, and any approved changes thereto. Lateral spacing of legend shall provide a balanced appearance when spacing is not shown.
4. Black legend and borders shall be applied by screening process or cut-out acrylic non-reflective black film to white background sheeting, or combination thereof.
5. White legend and borders shall be applied by screening process with transparent colored ink, transparent colored overlay film to white background sheeting or cut-out white sheeting to colored background sheeting, or combination thereof.
6. Colored legend shall be applied by screening process with transparent colored ink, transparent colored overlay film or colored sheeting to background sheeting, or combination thereof.
7. Sign substrate shall be any material that meets the Departmental Material Specification requirements of DMS-7110.
8. Mounting details for roadside mounted signs are shown in the "SMD series" Standard Plan Sheets.

REQUIREMENTS FOR WARNING SIGNS

TYPICAL EXAMPLES



DEPARTMENTAL MATERIAL SPECIFICATIONS		
ALUMINUM SIGN BLANKS	DMS-7110	
	Square Ft.	Min. Thickness
	Less than 7.5	0.080
	7.5 to 15	0.100
	Greater than 15	0.125
SIGN FACE MATERIALS	DMS-8300	
USAGE	COLOR	SIGN FACE MATERIAL
BACKGROUND	YELLOW	TYPE E SHEETING
LEGEND & BORDERS	BLACK	ACRYLIC NON-REFLECTIVE FILM
LEGEND & SYMBOLS	ALL OTHER	TYPE D SHEETING

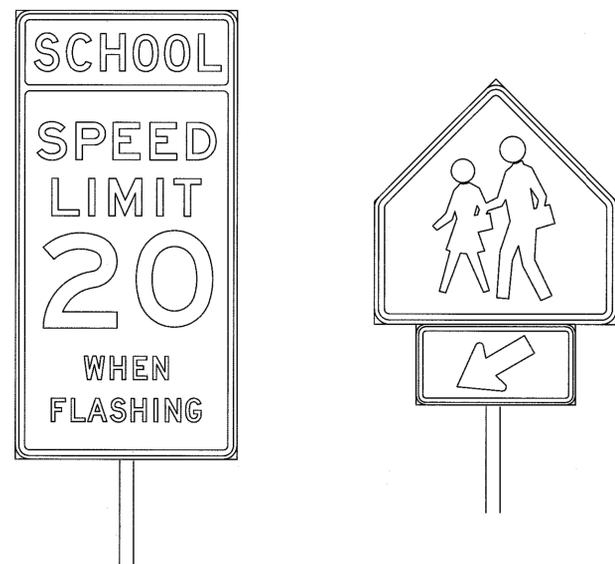
GENERAL NOTES:

1. Signs to be furnished shall be as detailed elsewhere in the plans and/or as shown on sign tabulation sheet. Standard sign designs and arrow dimensions can be found in the "Standard Highway Sign Designs for Texas" (SHSD).
2. Warning sign legend shall use the Federal Highway Administration (FHWA) Standard Highway Alphabets (B, C, D, E, Emod, or F).
3. Lateral spacing between letters and numerals shall conform with the SHSD, and any approved changes thereto. Lateral spacing of legend shall provide a balanced appearance when spacing is not shown.
4. Black legend and borders shall be applied by screening process or cut-out acrylic non-reflective black film to yellow background sheeting, or combination thereof.
5. Colored legend and symbols shall be applied by screening process with transparent colored ink, transparent colored overlay film, or colored sheeting to white sheeting, or combination thereof. The colored legend or symbol is then applied to the yellow background sheeting.
6. Sign substrate shall be any material that meets the Departmental Material Specification requirements of DMS-7110.
7. Mounting details for roadside mounted signs are shown in the "SMD series" Standard Plan Sheets.

The Standard Highway Sign Designs for Texas (SHSD) can be found at the following website:
<http://www.txdot.gov/publications/traffic.htm>

REQUIREMENTS FOR SCHOOL SIGNS

TYPICAL EXAMPLES



DEPARTMENTAL MATERIAL SPECIFICATIONS		
ALUMINUM SIGN BLANKS	DMS-7110	
	Square Ft.	Min. Thickness
	Less than 7.5	0.080
	7.5 to 15	0.100
	Greater than 15	0.125
SIGN FACE MATERIALS	DMS-8300	
USAGE	COLOR	SIGN FACE MATERIAL
BACKGROUND	WHITE	TYPE C SHEETING
BACKGROUND	FLOR.YEL.GRN.	TYPE E SHEETING
LEGEND & BORDERS	BLACK	ACRYLIC NON-REFLECTIVE FILM

GENERAL NOTES:

1. Signs to be furnished shall be as detailed elsewhere in the plans and/or as shown on sign tabulation sheet. Standard sign designs and arrow dimensions can be found in the "Standard Highway Sign Designs for Texas" (SHSD).
2. School sign legend shall use the Federal Highway Administration (FHWA) Standard Highway Alphabets (B, C, D, E, Emod or F).
3. Lateral spacing between letters and numerals shall conform with the SHSD, and any approved changes thereto. Lateral spacing of legend shall provide a balanced appearance when spacing is not shown.
4. Black legend and borders shall be applied by screening process or cut-out acrylic non-reflective black film to background sheeting, or combination thereof.
5. Sign substrate shall be any material that meets the Departmental Material Specification requirements of DMS-7110.
6. Mounting details for roadside mounted signs are shown in the "SMD series" Standard Plan Sheets.



TYPICAL SIGN REQUIREMENTS

TSR(4)-08

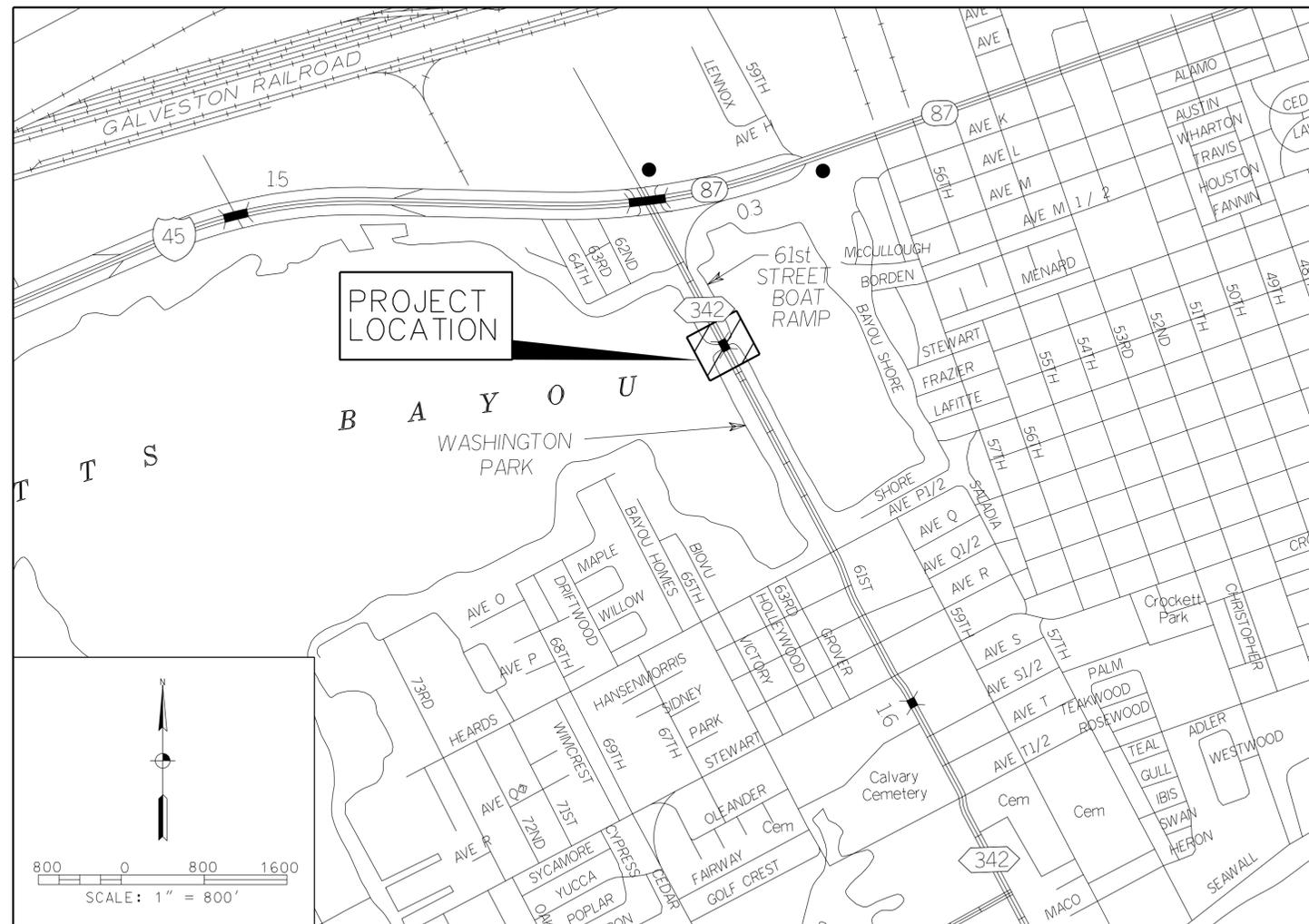
© TxDOT October 2003	DN: TXDOT	CK: TXDOT	DW: TXDOT	CX: TXDOT
REVISIONS	CONT	SECT	JOB	HIGHWAY
12-03 9-08				
	DIST	COUNTY	SHEET NO.	

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DATE:
FILE:

GALVESTON COUNTY DEPARTMENT OF PARKS & SENIOR SERVICES

PLANS FOR CONSTRUCTION OF 61st STREET PEDESTRIAN BRIDGE Galveston, Texas



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3 OF 28	TYPICAL SECTIONS
4 OF 28	BENTS 1 & 7
5 OF 28	BENTS 2 & 6
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7 OF 28	BENT 4
8 OF 28	PRECAST SLAB DETAILS
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12 OF 28	PRESTRESSED CONCRETE SLAB BEAM PSBND
13 OF 28	PR1 - PEDESTRIAN RAIL
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15 OF 28	PSBEB - ELASTOMERIC BEARING DETAILS
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17 OF 28	BS-EJCP - BRIDGE SIDEWALK EXPANSION JOINT COVER PLATE
18 OF 28	ELECTRICAL SITE PLAN

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19 OF 28	BRIDGE LAYOUT
20 OF 28	TYPICAL SECTIONS
21 OF 28	BENTS 1 & 7
22 OF 28	BENTS 2 & 6
23 OF 28	BENT 3 & 5
24 OF 28	BENT 4
25 OF 28	APPROACH SPANS DETAILS
26 OF 28	PREFAB BRIDGE SPANS
27 OF 28	LANDINGS A & B
28 OF 28	RAMP DETAILS



AECOM

AECOM TECHNICAL SERVICES, INC.
5444 WESTHEIMER RD, SUITE 200
HOUSTON, TEXAS 77056
WWW.AECOM.COM
TBPE REG. NO. F-3580

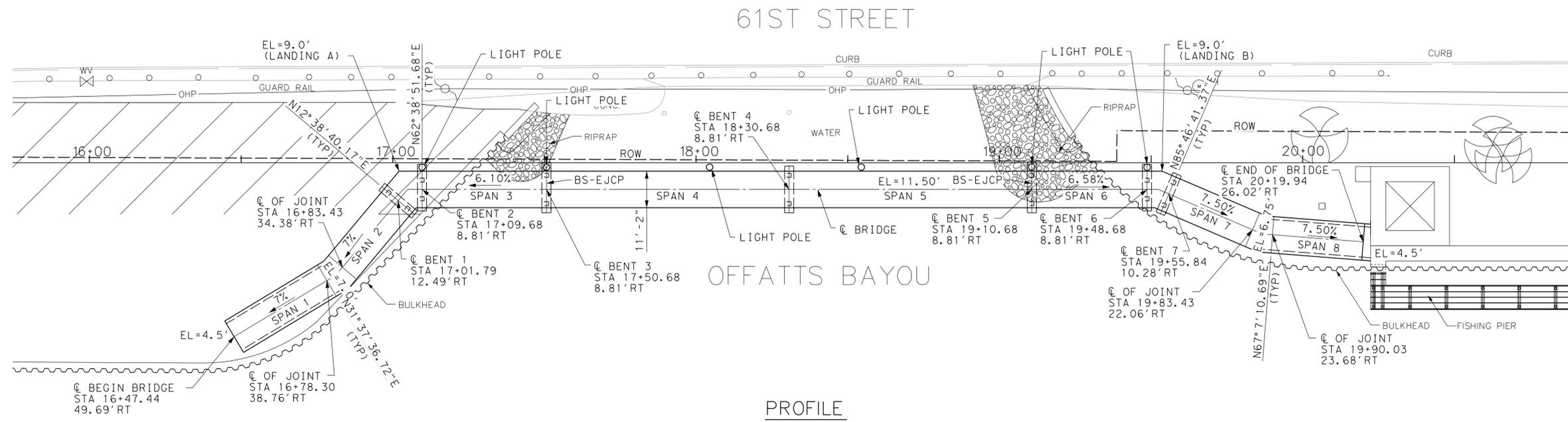
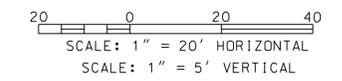
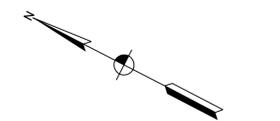
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PROJECT NO. 60073413

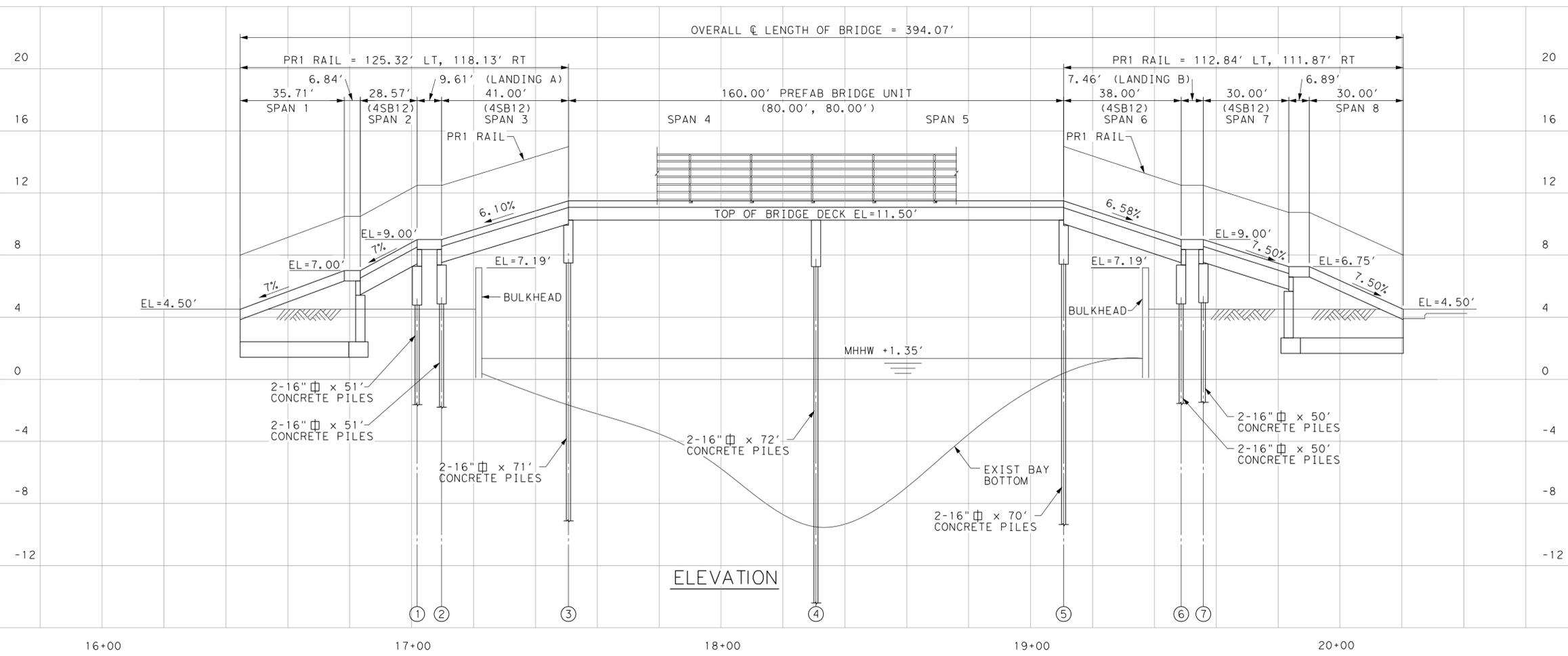
APRIL 2015

SHEET 1 OF 28

NO.	DATE	REVISION	APPROV.
4			
3			
2			
1			



PROFILE



ELEVATION

- GENERAL NOTES:
- DESIGNED IN ACCORDANCE WITH 7TH EDITION AASHTO LRFD SPECIFICATIONS AND 2009 EDITION AASHTO LRFD GUIDE SPECIFICATIONS FOR THE DESIGN OF PEDESTRIAN BRIDGES.
 - DESIGN LOADS -- LL= 90 PSF



NO.	DATE	REVISION	APPROV.
4			
3			
2			
1			

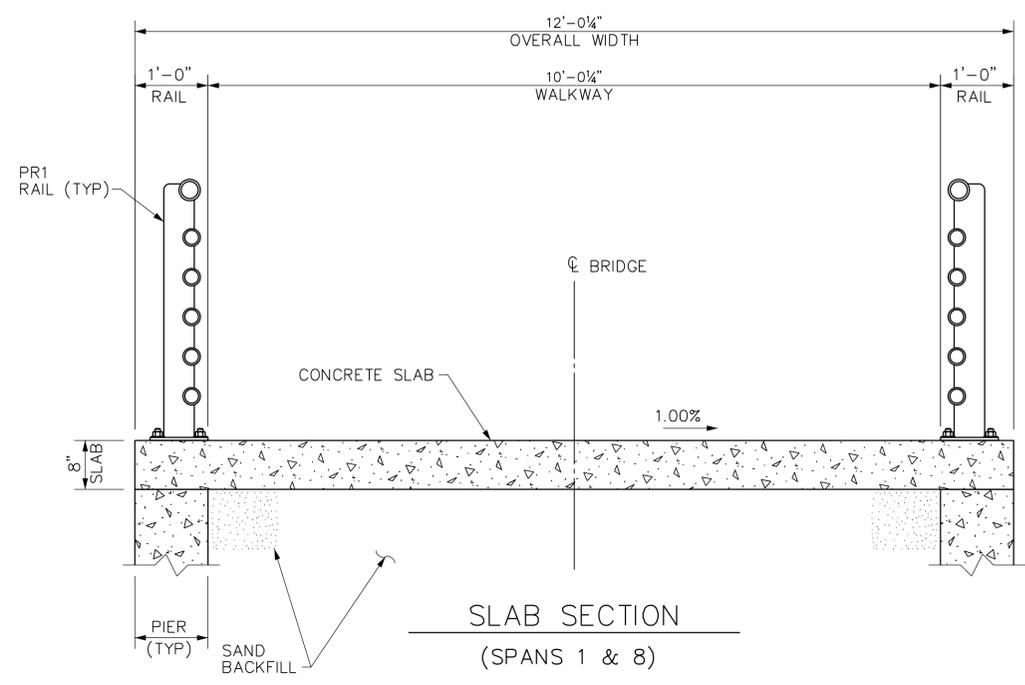
GALVESTON COUNTY
61ST STREET PEDESTRIAN BRIDGE
61st STREET PEDESTRIAN BRIDGE
BRIDGE LAYOUT



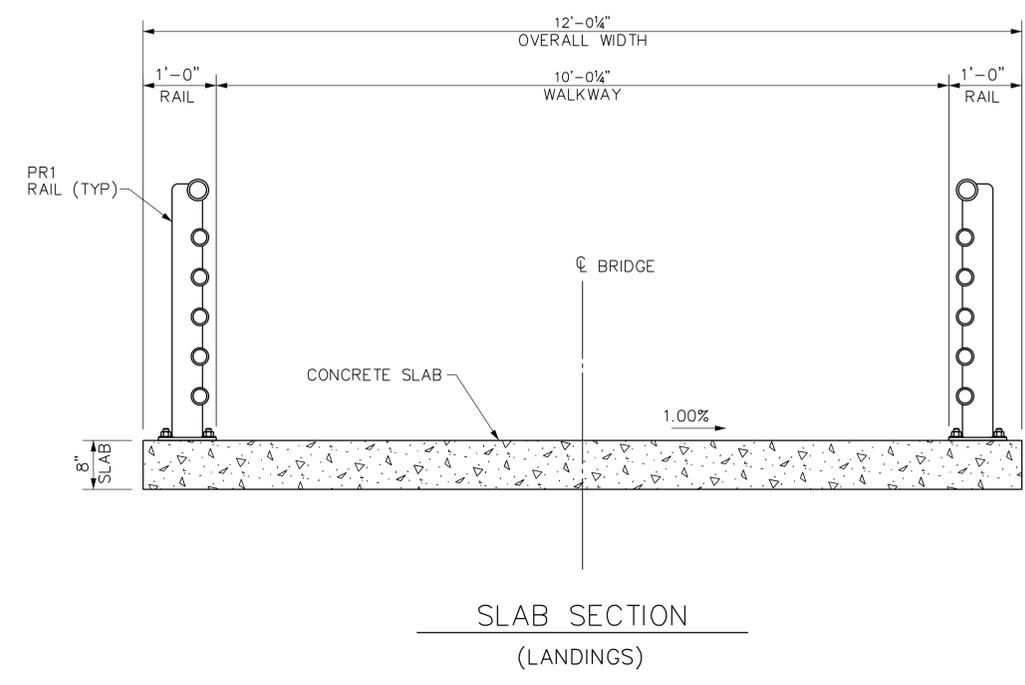
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Designed	LNH	Checked	WRB	Project No.	60313709
Drawn	J5	Approved	LNH	Sheet	2 of 28

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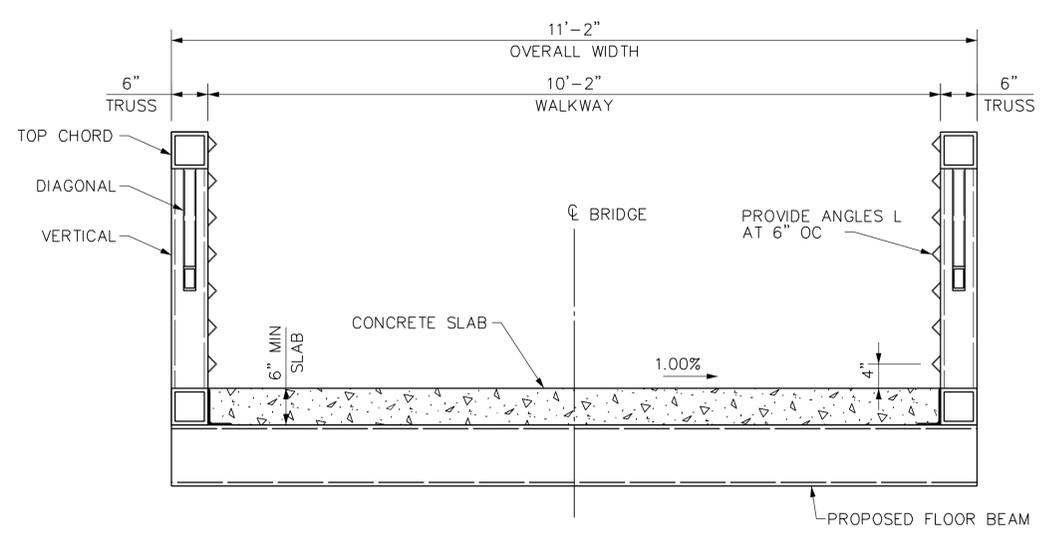
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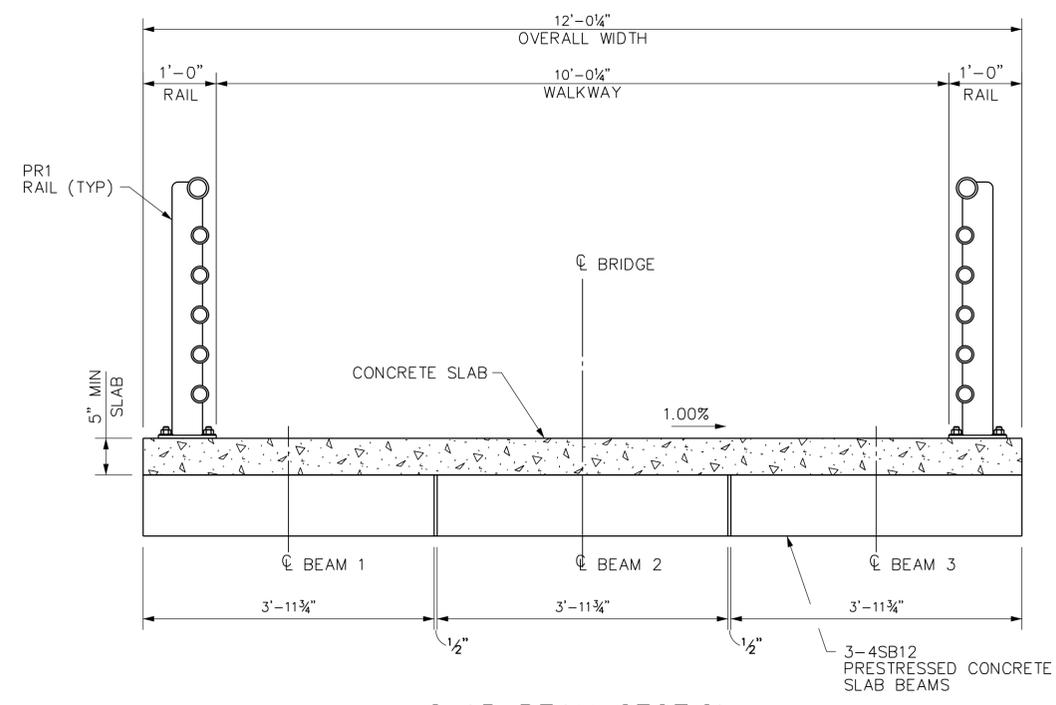
SLAB SECTION
(SPANS 1 & 8)



SLAB SECTION
(LANDINGS)



PREFABRICATED BRIDGE SECTION
(SPANS 4 & 5)
(SEE PREFAB BRIDGE DRAWINGS FOR DETAILS)



SLAB BEAM SECTION
(SPANS 2, 3, 6 & 7)

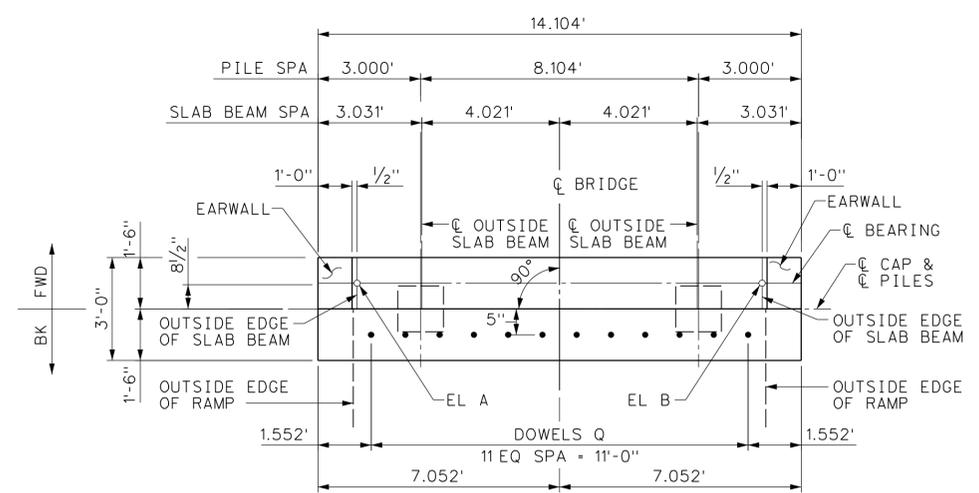


Wally R. Burns 4/28/2015

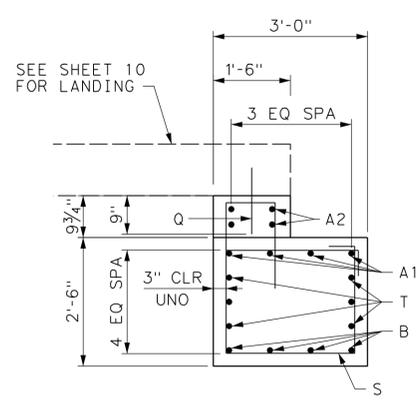
4			
3			
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1			
NO.	DATE	REVISION	APPROV.
GALVESTON COUNTY 61ST STREET PEDESTRIAN BRIDGE 61st STREET PEDESTRIAN BRIDGE TYPICAL SECTIONS			
AECOM		<small>AECOM TECHNICAL SERVICES, INC. 5444 WESTHEIMER RD, SUITE 200 HOUSTON, TEXAS 77056 WWW.AECOM.COM TBPE REG. NO. F-3580</small>	
Unit	PUBLIC WORKS	Scale:	1" = 20'
Designed	LNH	Checked	WRB
Drawn	J5	Approved	LNH
Date	MARCH 2015	Project No.	60313709
		Sheet	3 of 28

CONTROL ELEVATIONS		
	ELEV A	ELEV B
BENT 1	7.24'	7.24'
BENT 7	7.23'	7.23'

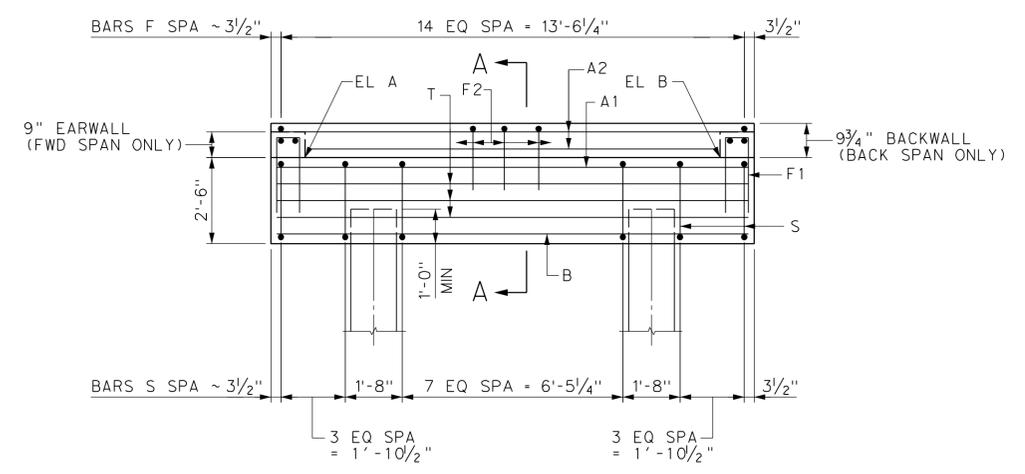
REINFORCING TABLE ②			
BAR	No	SIZE	LENGTH
A1	4	#8	13'-7"
A2	4	#5	13'-7"
B	4	#8	13'-7"
E	4	#4	1'-0"
F1	8	#4	6'-5"
F2	15	#4	7'-4"
Q	12	#4	1'-1"
S	16	#4	9'-10"
T	6	#5	13'-7"



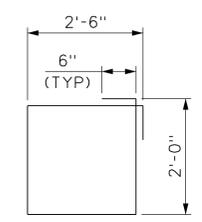
PLAN
(BENT 7 SHOWN, BENT 1 SIMILAR)



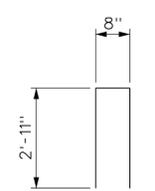
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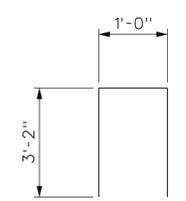
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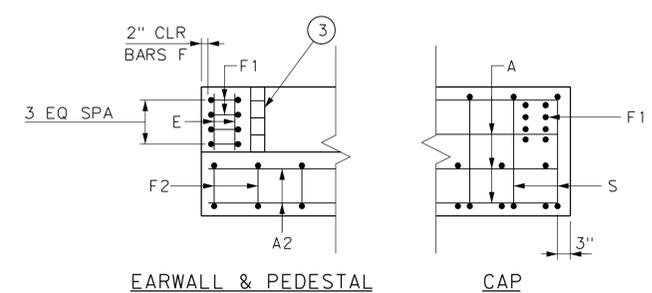
BARS S



BARS F1



BARS F2



EARWALL & PESTAL
CAP END DETAIL

② QUANTITIES ARE FOR ONE BENT ONLY

GENERAL NOTES:

- DESIGNED IN ACCORDANCE WITH AASHTO LRFD SPECIFICATIONS FOR DESIGN OF PEDESTRIAN BRIDGES.
- CONCRETE STRENGTH $f'c = 3,600\text{psi}$.
- ALL CAP REINFORCING SHALL BE GRADE 60.
- PROVIDE EPOXY COATED REINFORCING.
- DESIGN LOADS:
PEDESTRIAN LL = 90 psf
- FOUNDATIONS LOADS = 21 TONS/PILE

③ 1/2" PREFORMED BITUMINOUS FIBER MATERIAL BETWEEN SLAB BEAM AND EARWALL. BOND TO EARWALL WITH AN APPROVED ADHESIVE. INSIDE FACE OF EARWALL TO BE CAST PERPENDICULAR TO CAP. (TYP)



NO.	DATE	REVISION	APPROV.
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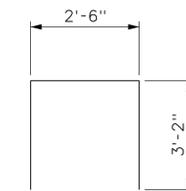
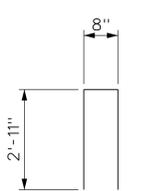
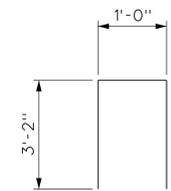
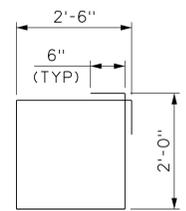
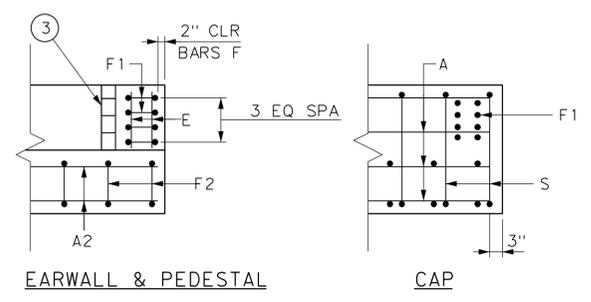
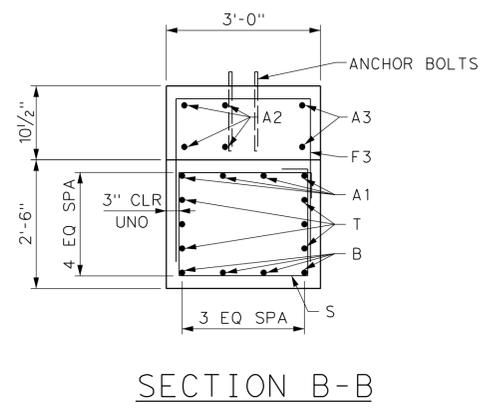
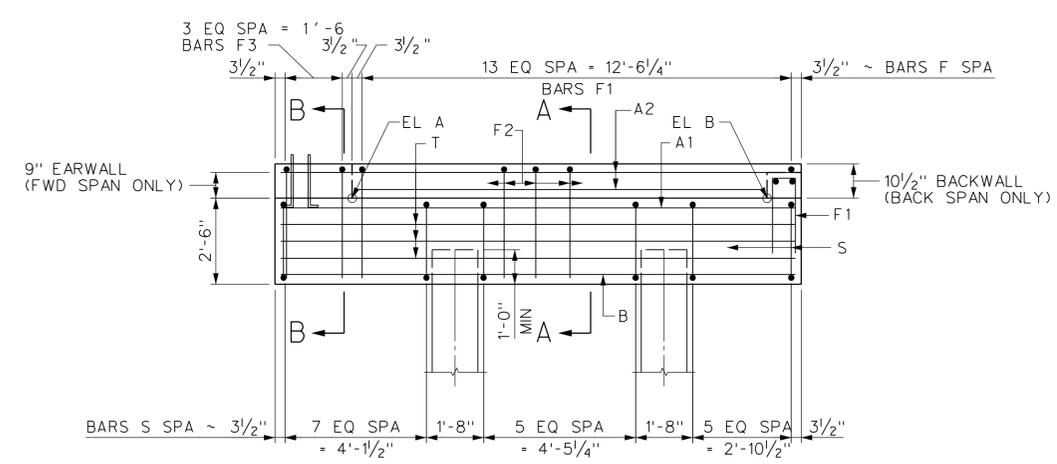
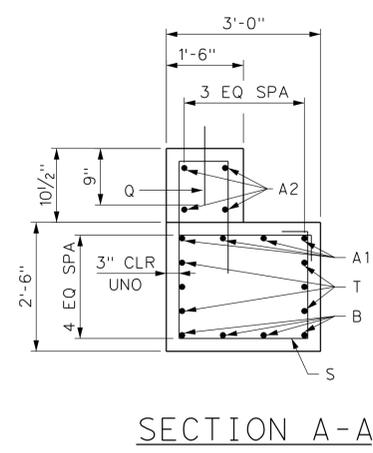
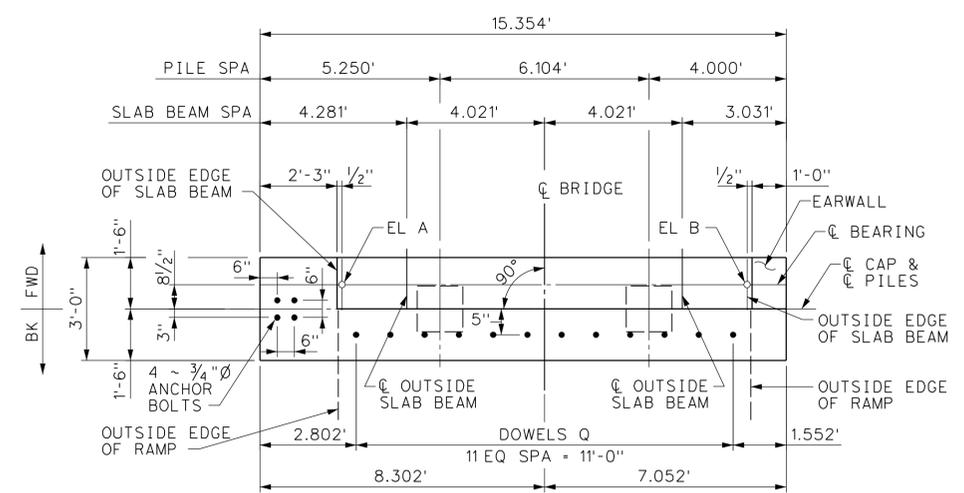
GALVESTON COUNTY
61ST STREET PEDESTRIAN BRIDGE
61ST STREET PEDESTRIAN BRIDGE
BENTS 1 & 7

AECOM
AECOM TECHNICAL SERVICES, INC.
5444 WESTHEIMER RD, SUITE 200
HOUSTON, TEXAS 77056
WWW.AECOM.COM
TBPE REG. NO. F-3580

Unit	PUBLIC WORKS	Scale:	NTS	Date	MARCH 2015
Designed	LNH	Checked	WRB	Project No.	60313709
Drawn	JS	Approved	LNH	Sheet	4 of 28

CONTROL ELEVATIONS	
EL A	EL B
7.16'	7.16'

REINFORCING TABLE ②			
BAR	No	SIZE	LENGTH
A1	4	#8	14'-10"
A2	3	#5	14'-10"
A3	2	#5	1'-11"
B	4	#8	14'-10"
E	2	#4	1'-0"
F1	4	#4	6'-5"
F2	15	#4	7'-4"
F3	4	#4	8'-10"
Q	12	#4	1'-1"
S	20	#4	9'-10"
T	6	#5	14'-10"



② QUANTITIES ARE FOR ONE BENT ONLY

GENERAL NOTES:
 DESIGNED IN ACCORDANCE WITH AASHTO LRFD SPECIFICATIONS FOR DESIGN OF PEDESTRIAN BRIDGES.
 CONCRETE STRENGTH $f'c = 3,600$ psi.
 ALL CAP REINFORCING SHALL BE GRADE 60.
 PROVIDE EPOXY COATED REINFORCING.
 DESIGN LOADS:
 PEDESTRIAN LL = 90 psf
 FOUNDATIONS LOADS = 27 TONS/PILE

③ 1/2" PREFORMED BITUMINOUS FIBER MATERIAL BETWEEN SLAB BEAM AND EARWALL. BOND TO EARWALL WITH AN APPROVED ADHESIVE. INSIDE FACE OF EARWALL TO BE CAST PERPENDICULAR TO CAP. (TYP)



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NO.	DATE	REVISION	APPROV.

GALVESTON COUNTY
 61ST STREET PEDESTRIAN BRIDGE
 61ST STREET PEDESTRIAN BRIDGE
 BENTS 2 & 6



Unit	PUBLIC WORKS	Scale:	NTS	Date	MARCH 2015
Designed	LNH	Checked	WRB	Project No.	60313709
Drawn	JS	Approved	LNH	Sheet	5 of 28

CONTROL ELEVATIONS	
EL A	EL B
9.96'	9.96'

REINFORCING TABLE ②			
BAR	No	SIZE	LENGTH
A	4	#8	16'-0"
B	4	#8	16'-0"
E1	4	#4	1'-0"
E2	2	#4	2'-6"
E3	3	#4	16'-0"
F1	8	#4	7'-1"
F2	5	#4	6'-9"
S	19	#4	9'-10"
T	6	#5	14'-10"
U	6	#4	5'-0"

② QUANTITIES ARE FOR ONE BENT ONLY

GENERAL NOTES:

ALL ANCHOR BOLTS, NUTS AND WASHERS PROVIDED BY PREFAB BRIDGE MANUFACTURER.

DESIGNED IN ACCORDANCE WITH AASHTO LRFD SPECIFICATIONS FOR DESIGN OF PEDESTRIAN BRIDGES.

CONCRETE STRENGTH $f'_c = 3,600\text{psi}$.

ALL CAP REINFORCING SHALL BE GRADE 60.

PROVIDE EPOXY COATED REINFORCING.

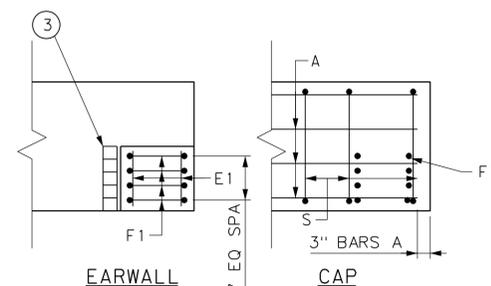
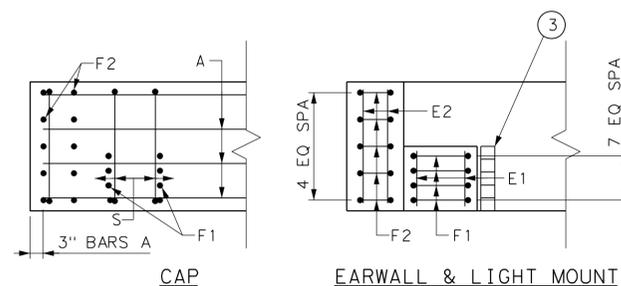
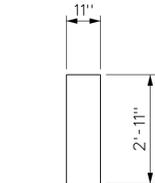
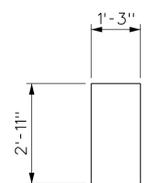
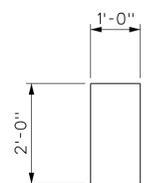
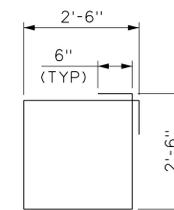
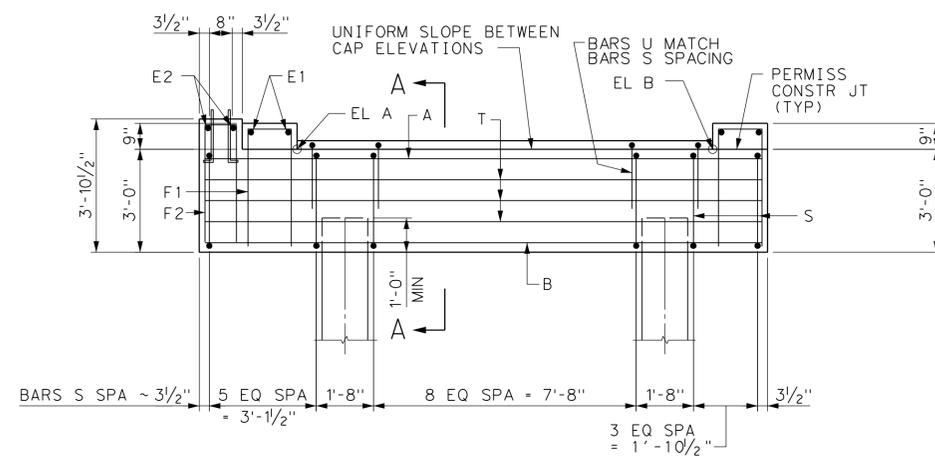
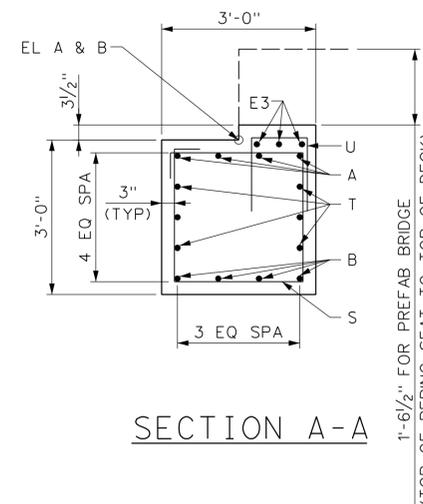
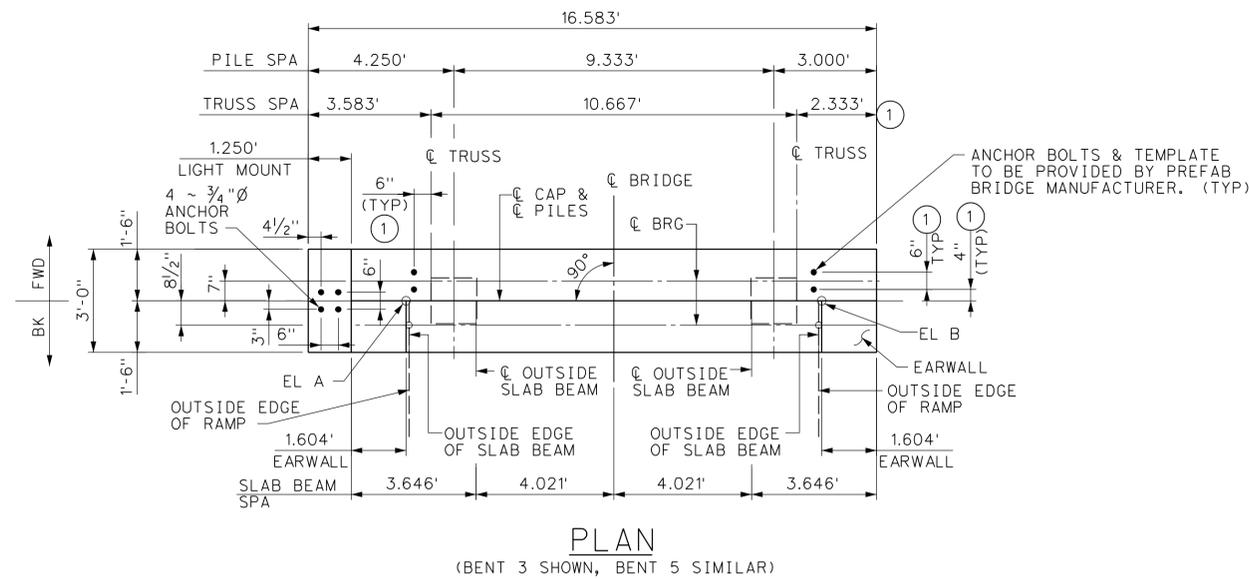
DESIGN LOADS:
PEDESTRIAN LL = 90 psf

DESIGN REACTIONS FROM TRUSS:
DL = 29.75K
LL = 21.60K

FOUNDATIONS LOADS = 44 TONS/PILE

① CONTRACTOR TO VERIFY WITH MANUFACTURER AND ADJUST AS NECESSARY.

③ 1/2" PREFORMED BITUMINOUS FIBER MATERIAL BETWEEN SLAB BEAM AND EARWALL. BOND TO EARWALL WITH AN APPROVED ADHESIVE. INSIDE FACE OF EARWALL TO BE CAST PERPENDICULAR TO CAP. (TYP)



NO.	DATE	REVISION	APPROV.
4			
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GALVESTON COUNTY
61ST STREET PEDESTRIAN BRIDGE
61ST STREET PEDESTRIAN BRIDGE
BENT 3 & 5

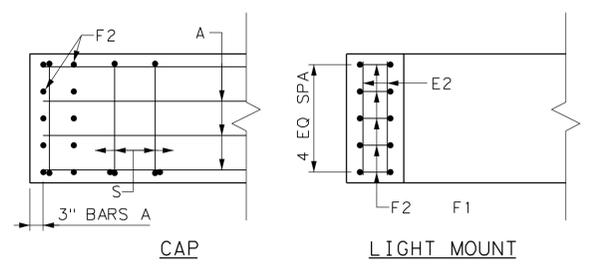
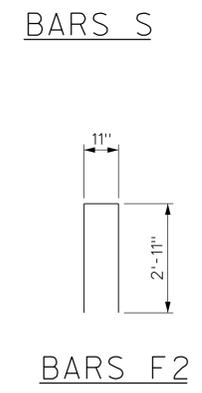
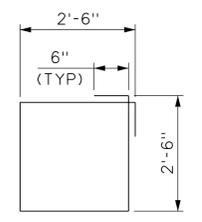
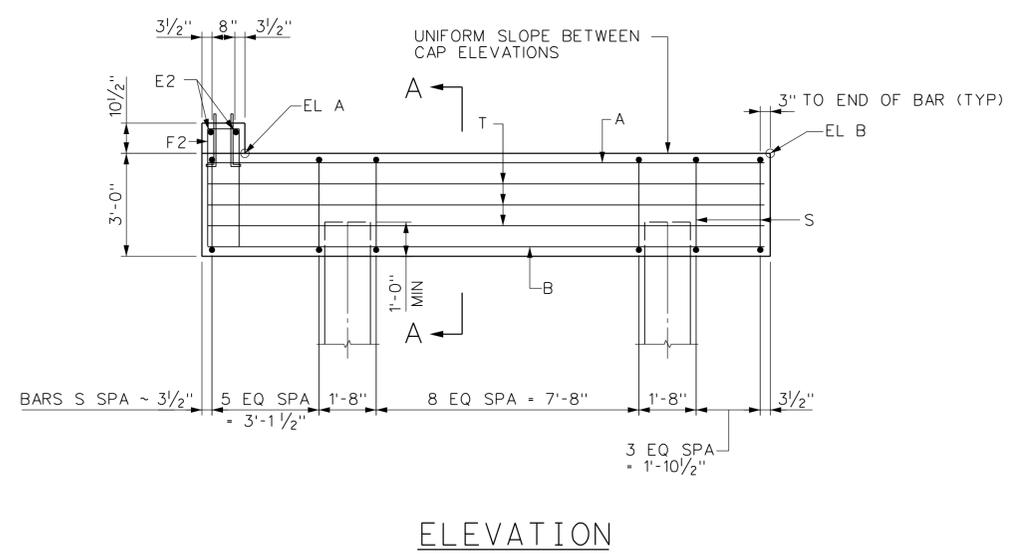
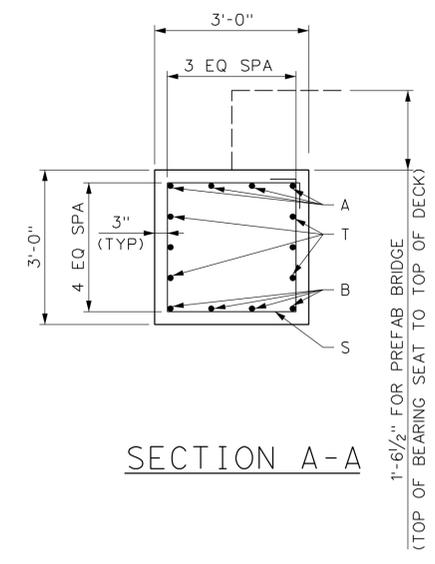
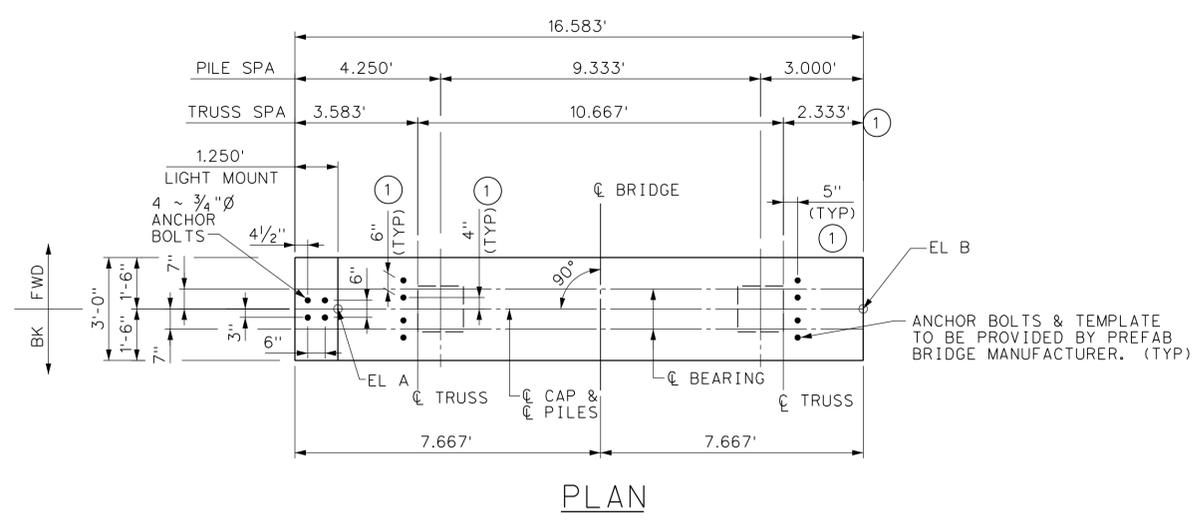


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Unit	PUBLIC WORKS	Scale:	NTS	Date	MARCH 2015
Designed	LNH	Checked	WRB	Project No.	60313709
Drawn	JS	Approved	LNH	Sheet	6 of 28

REINFORCING TABLE			
BAR	No	SIZE	LENGTH
A	4	#8	15' - 0"
B	4	#8	15' - 0"
E2	2	#4	2' - 6"
F2	5	#4	6' - 9"
S	17	#4	11' - 0"
T	6	#5	15' - 0"

CONTROL ELEVATIONS	
EL A	EL B
9.96'	9.96'



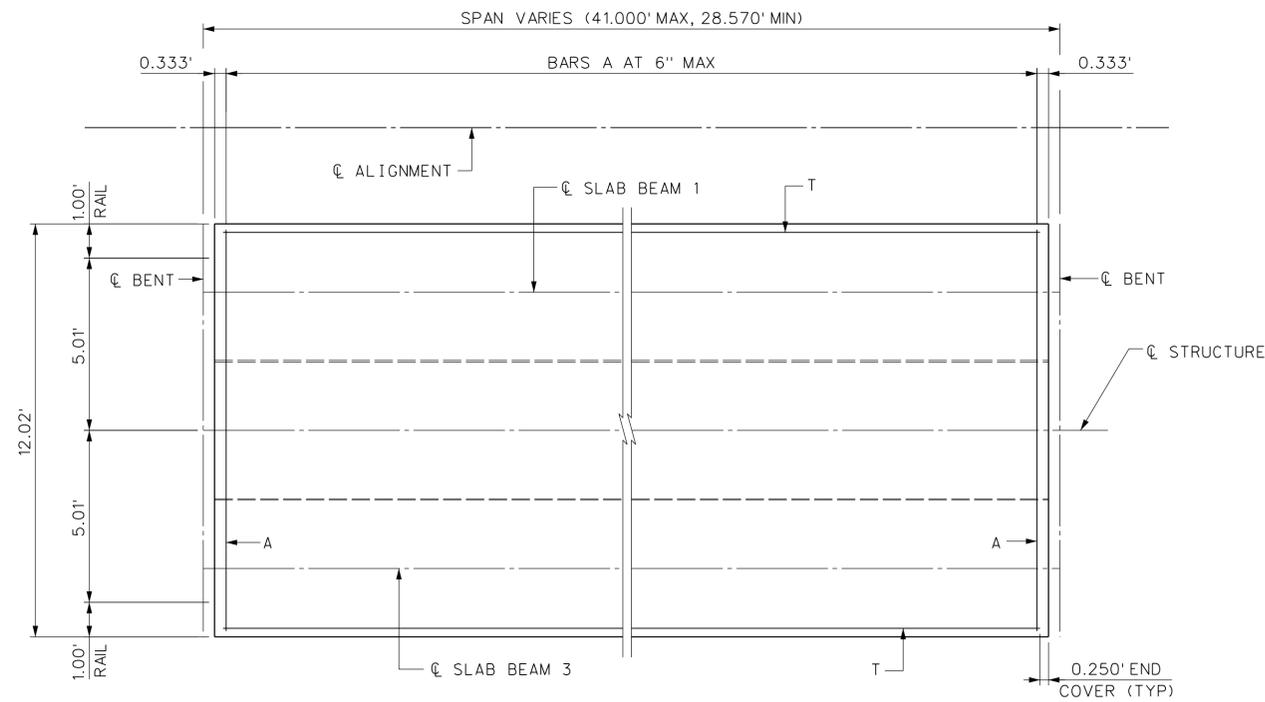
- GENERAL NOTES:**
- ALL ANCHOR BOLTS, NUTS AND WASHERS PROVIDED BY PREFAB BRIDGE MANUFACTURER.
 - DESIGNED IN ACCORDANCE WITH AASHTO LRFD SPECIFICATIONS FOR DESIGN OF PEDESTRIAN BRIDGES.
 - CONCRETE STRENGTH $f'_c = 3,600\text{psi}$.
 - ALL CAP REINFORCING SHALL BE GRADE 60.
 - PROVIDE EPOXY COATED REINFORCING.
 - DESIGN LOADS:
PEDESTRIAN LL = 90 psf
 - DESIGN REACTIONS FROM TRUSS:
DL = 29.75K
LL = 21.60K
 - FOUNDATIONS LOADS = 44 TONS/PILE

① CONTRACTOR TO VERIFY WITH MANUFACTURER AND ADJUST AS NECESSARY.

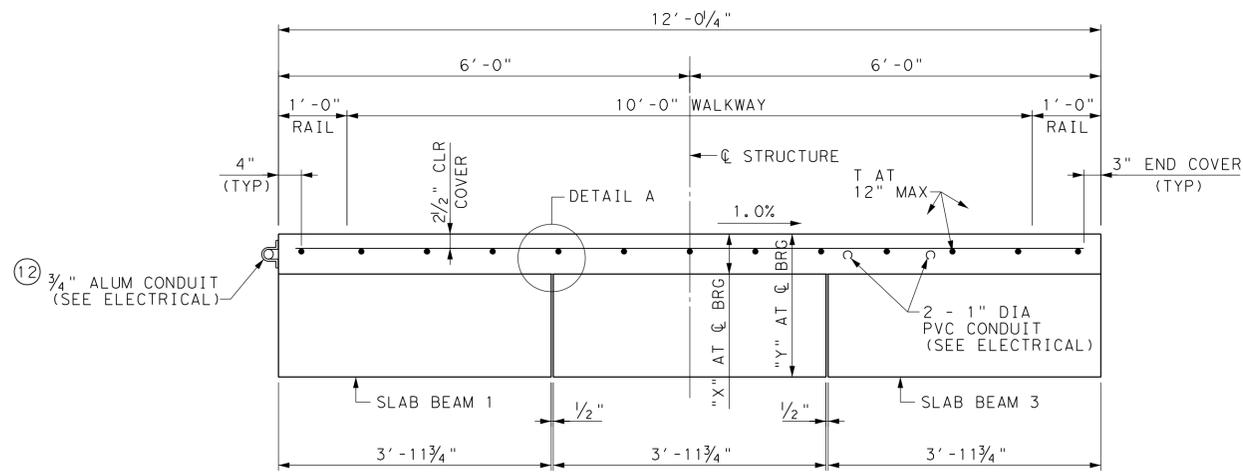


Wally R. Burns 4/28/2015

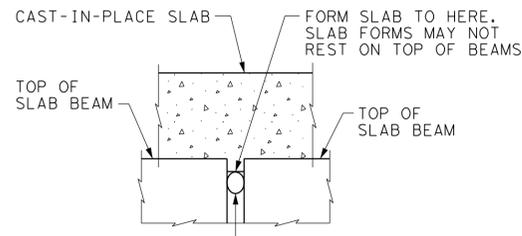
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NO.	DATE	REVISION	APPROV.
GALVESTON COUNTY 61ST STREET PEDESTRIAN BRIDGE			
61ST STREET PEDESTRIAN BRIDGE BENT 4			
		<small>AECOM TECHNICAL SERVICES, INC. 5444 WESTHEIMER RD, SUITE 200 HOUSTON, TEXAS 77056 WWW.AECOM.COM TBPE REG. NO. F-3580</small>	
Unit	PUBLIC WORKS	Scale:	NTS
Designed	LNH	Checked	WRB
Drawn	JS	Approved	LNH
Date	MARCH 2015	Project No.	60313709
		Sheet	7 of 28



PLAN

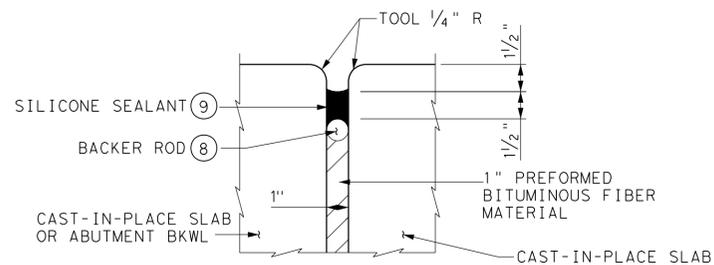


TYPICAL SECTION



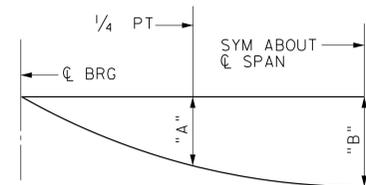
BACKER RODS (25% LARGER THAN JOINT) MAY BE USED AS FORM. SECURE WITH COMPATIBLE ADHESIVE AS REQUIRED

DETAIL A



TYPE A JOINT DETAIL

(TYP BENTS 1, 2, 6, 7 & RAMPS)



DEAD LOAD DEFLECTION DIAGRAM

NOTE: DEFLECTIONS SHOWN ARE DUE TO CONCRETE SLAB ONLY. ($E_c = 5 \times 10^6$ PSI) CALCULATED DEFLECTIONS SHOWN ARE THEORETICAL AND ACTUAL DIMENSIONS MAY BE LESS. DEFLECTIONS SHALL BE ADJUSTED BASED ON FIELD OBSERVATIONS.

- (2) REINFORCING STEEL WEIGHT IS CALCULATED USING AN APPROXIMATE FACTOR OF 2.8 LBS/SF.
- (3) BASED ON THEORETICAL BEAM CAMBER, DEAD LOAD DEFLECTIONS OF 5" CAST-IN-PLACE CONCRETE SLAB AND A CONSTANT GRADE. THE CONTRACTOR SHALL ADJUST THESE VALUES FOR ANY VERTICAL CURVE.
- (4) FABRICATOR SHALL ADJUST BEAM LENGTHS FOR BEAM SLOPES AS REQUIRED.
- (8) BACKER ROD SHALL BE 25% LARGER THAN JOINT OPENING AND SHALL BE COMPATIBLE WITH THE SEALANT; NO REACTION SHALL OCCUR BETWEEN THE ROD AND THE SEALANT.
- (9) SEALANT SHALL BE CLASS 7 SILICONE SEALANT. INSTALL WHEN AMBIENT TEMPERATURE IS BETWEEN 55°F AND 85°F AND RISING. ENGINEER TO DETERMINE ALLOWABLE HOURS FOR SEALANT APPLICATION.
- (10) SEE LAYOUT FOR EXPANSION JOINT LOCATIONS.
- (12) ATTACH 3/4" DIA CONDUIT WITH STAINLESS STEEL SCREWS OR BOLTS TO CONCRETE. PROVIDE 1/4" NEOPRENE PAD BETWEEN ALLUMINUM CLIPS AND CONCRETE.

Span	Girders	Girder Type	Dead Load Deflection		Section Depths	
			"A"	"B"	"X"	"Y"
2	All	4SB12	0.005	0.007	5 1/2"	1' - 5 1/2"
3	All	4SB12	0.025	0.034	6 1/2"	1' - 6 1/2"
6	All	4SB12	0.018	0.025	6 1/2"	1' - 6 1/2"
7	All	4SB12	0.007	0.009	5 1/2"	1' - 5 1/2"

Span	Reinf Conc Slab	Prestr Conc Slab Beam (4SB12)	Class "S" Conc	Total Reinf Steel
				LB
	SF	LF	CY	LB
2	344	84.21	5.3	963
3	493	121.5	7.6	1380
6	457	112.5	7.1	1280
7	361	88.5	5.6	1011

Span	Girder	Horizontal Distance		Girder Slope
		C-C Bent	C-C Brg.	
2	1-3	28.57'	27.15'	0.0700
3	1-3	41.00'	39.58'	0.0610
6	1-3	38.00'	36.58'	-0.0658
7	1-3	30.00'	28.58'	-0.0750

Bar	Size
A	#5
T	#4

GENERAL NOTES:

DESIGNED ACCORDING TO AASHTO LRFD SPECIFICATIONS. CONCRETE STRENGTH F'C = 4,000 PSI.

ALL SLAB REINFORCING SHALL BE GRADE 60. BAR LAPS, WHERE REQUIRED, SHALL BE AS FOLLOWS: EPOXY COATED ~ #4 = 2'-1" ~ #5 = 2'-7"



Wally R. Burns 4/28/2015

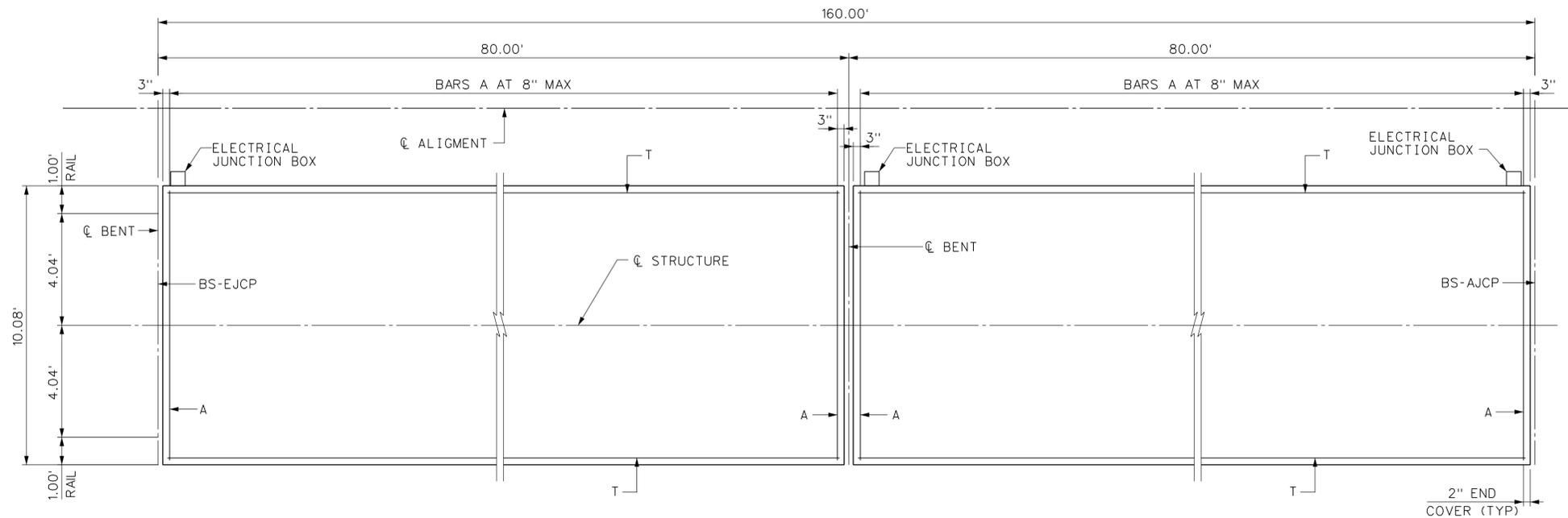
NO.	DATE	REVISION	APPROV.
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GALVESTON COUNTY
61ST STREET PEDESTRIAN BRIDGE
61st STREET PEDESTRIAN BRIDGE
PRECAST SLAB DETAILS



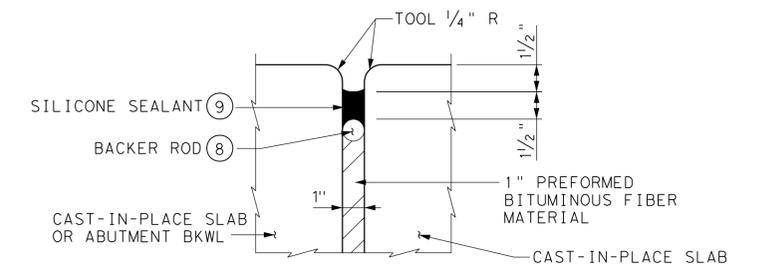
AECOM TECHNICAL SERVICES, INC.
5444 WESTHEIMER RD, SUITE 200
HOUSTON, TEXAS 77056
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Unit	PUBLIC WORKS	Scale:	NTS	Date	MARCH 2015
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Drawn	JS	Approved	LNH	Sheet	8 of 28

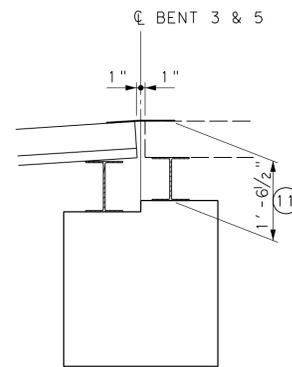


PLAN

- ⑧ BACKER ROD SHALL BE 25% LARGER THAN JOINT OPENING AND SHALL BE COMPATIBLE WITH THE SEALANT; NO REACTION SHALL OCCUR BETWEEN THE ROD AND THE SEALANT.
- ⑨ SEALANT SHALL BE CLASS 7 SILICONE SEALANT. INSTALL WHEN AMBIENT TEMPERATURE IS BETWEEN 55°F AND 85°F AND RISING. ENGINEER TO DETERMINE ALLOWABLE HOURS FOR SEALANT APPLICATION.
- ⑩ SEE LAYOUT FOR EXPANSION JOINT LOCATIONS.
- ⑪ CONFIRM WITH PREFAB BRIDGE MANUFACTURER, ADJUST CONTROL ELEVATION IF NECESSARY.
- ⑫ ATTACH JUNCTION BOX WITH STAINLESS STEEL SCREWS OR BOLTS TO CONCRETE. PROVIDE 1/4" NEOPRENE PAD BETWEEN ALLUMINUM CLIPS AND CONCRETE.

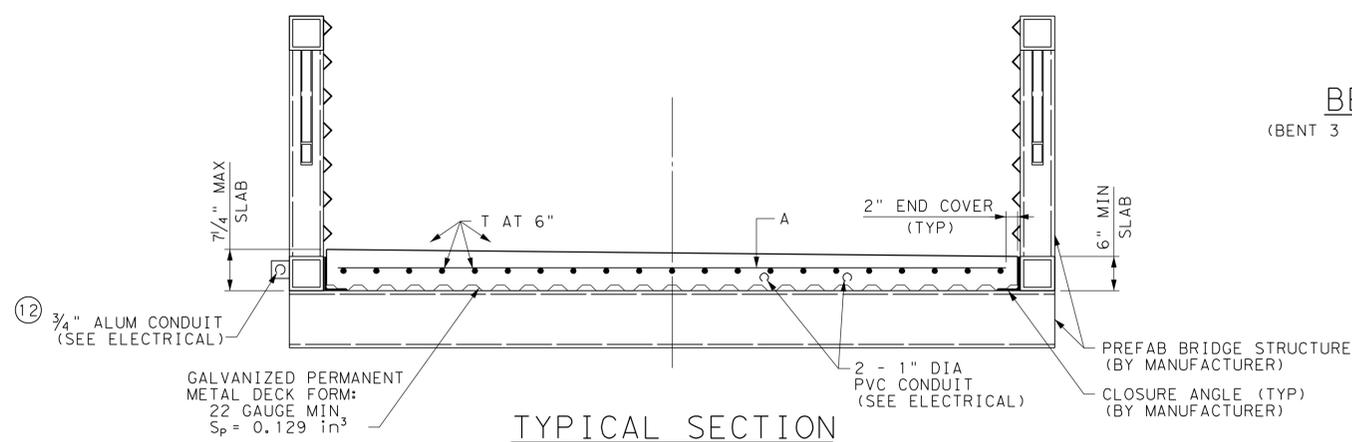


TYPE A JOINT DETAIL
(TYP BENT 4)



BENT 3 & 5
(BENT 3 SHOWN, BENT 5 SIMILAR)

BAR TABLE	
Bar	Size
A	#4
T	#5



TYPICAL SECTION

GENERAL NOTES:

DESIGNED ACCORDING TO AASHTO LRFD SPECIFICATIONS.
CONCRETE STRENGTH F'C = 4,000 PSI.

ALL SLAB REINFORCING SHALL BE GRADE 60.
BAR LAPS, WHERE REQUIRED, SHALL BE AS FOLLOWS:
EPOXY COATED ~ #4 = 2'-1"
~ #5 = 2'-7"



Wally R. Burns 4/28/2015

NO.	DATE	REVISION	APPROV.
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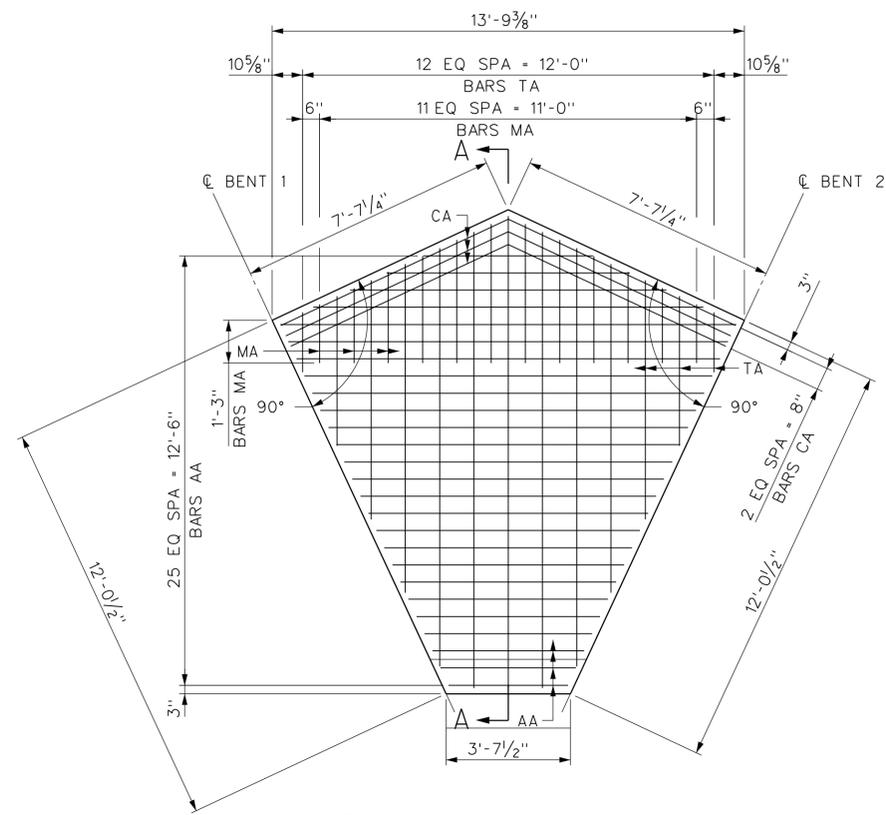
GALVESTON COUNTY
61ST STREET PEDESTRIAN BRIDGE
61st STREET PEDESTRIAN BRIDGE
PREFAB BRIDGE SPANS 4 & 5

AECOM

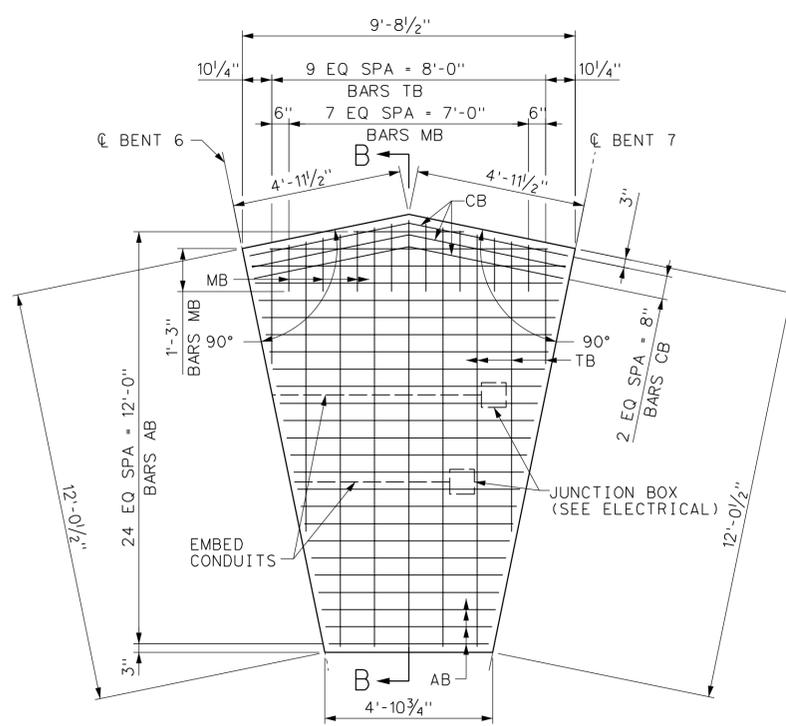
AECOM TECHNICAL SERVICES, INC.
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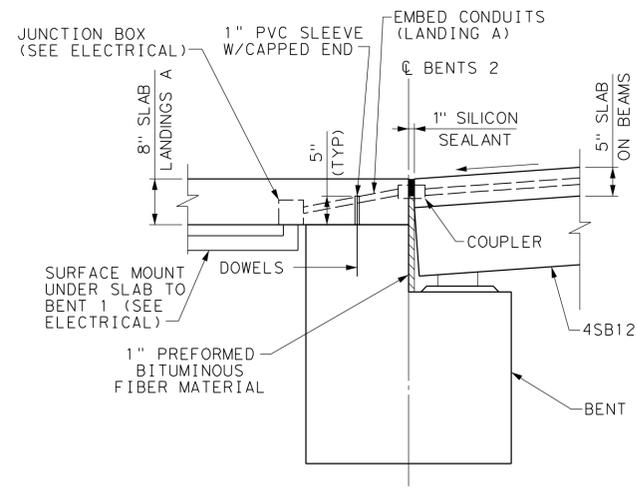
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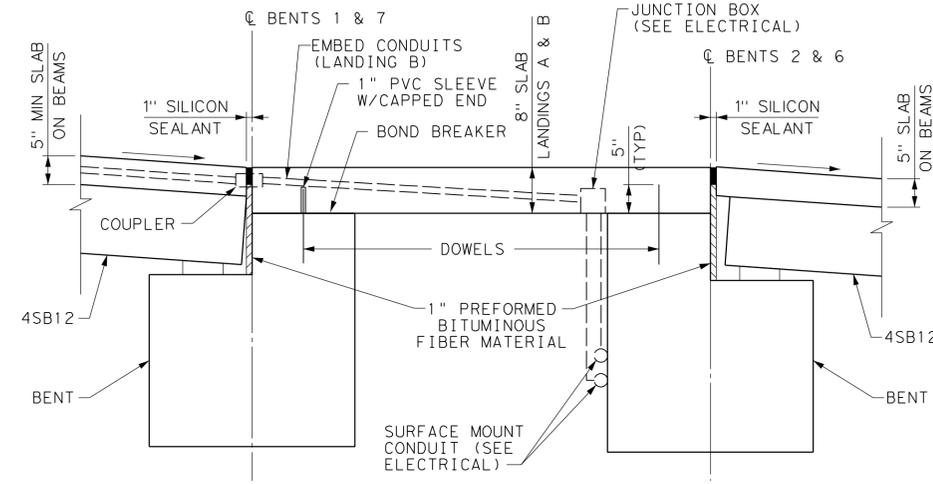
PLAN - LANDING A



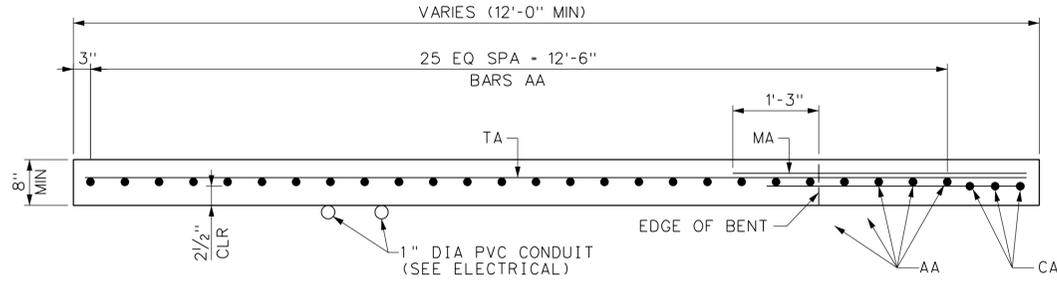
PLAN - LANDING B



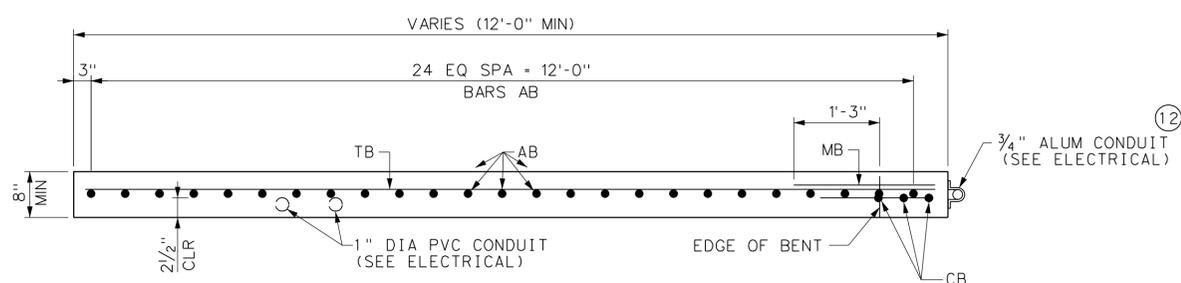
ELECTRICAL CONDUIT LANDING A CONNECTION
 (SLAB AND BENT REINFORCING NOT SHOWN FOR CLARITY)



GENERAL LANDING CONNECTION
 (SLAB AND BENT REINFORCING NOT SHOWN FOR CLARITY)
 (LANDING B CONDUIT SHOWN)



SECTION A-A



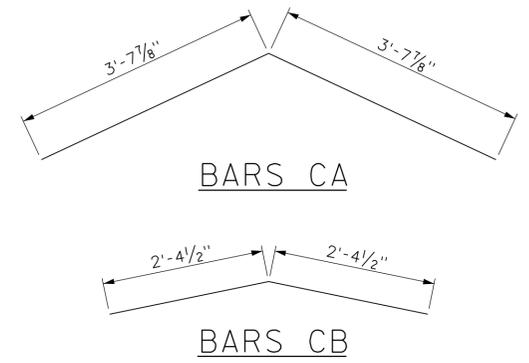
SECTION B-B

BAR	SIZE
A	#5
C	#5
M	#4
T	#4

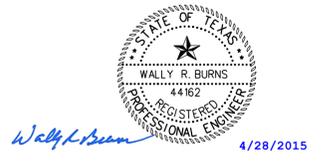
LANDING	REINF CONC SLAB	CLASS "C" CONC	REINF STEEL ^①
A	SF	CY	LB
A	117	2.8	363
B	91	2.2	283

① CALCULATED USING 3.1 LB/SF

GENERAL NOTES:
 DESIGNED ACCORDING TO AASHTO LRFD SPECIFICATIONS.
 CONCRETE STRENGTH F'C = 4,000 PSI.
 ALL SLAB REINFORCING SHALL BE GRADE 60.
 REINFORCING SHALL BE EPOXY COATED.



⑫ ATTACH 3/4" DIA CONDUIT WITH STAINLESS STEEL SCREWS OR BOLTS TO CONCRETE. PROVIDE 1/4" NEOPRENE PAD BETWEEN ALLUMINUM CLIPS AND CONCRETE.



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**GALVESTON COUNTY
 61ST STREET PEDESTRIAN BRIDGE
 61ST STREET PEDESTRIAN BRIDGE
 LANDINGS A & B**

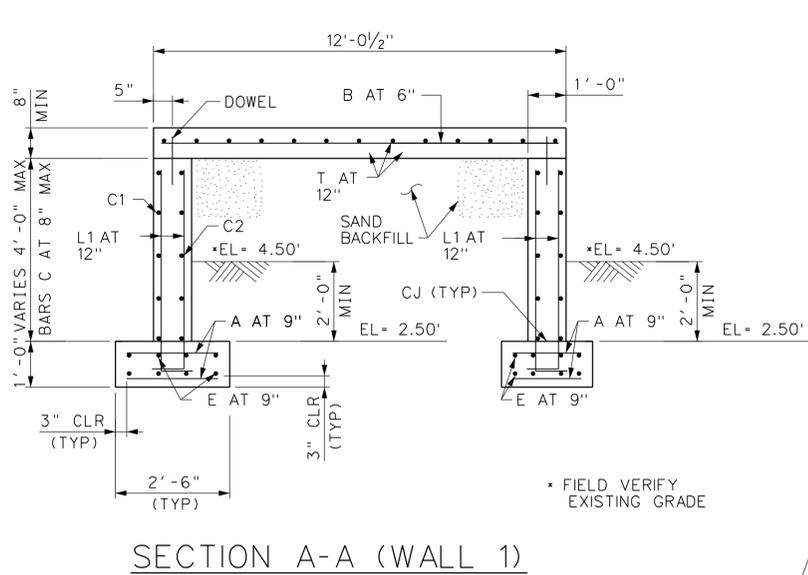
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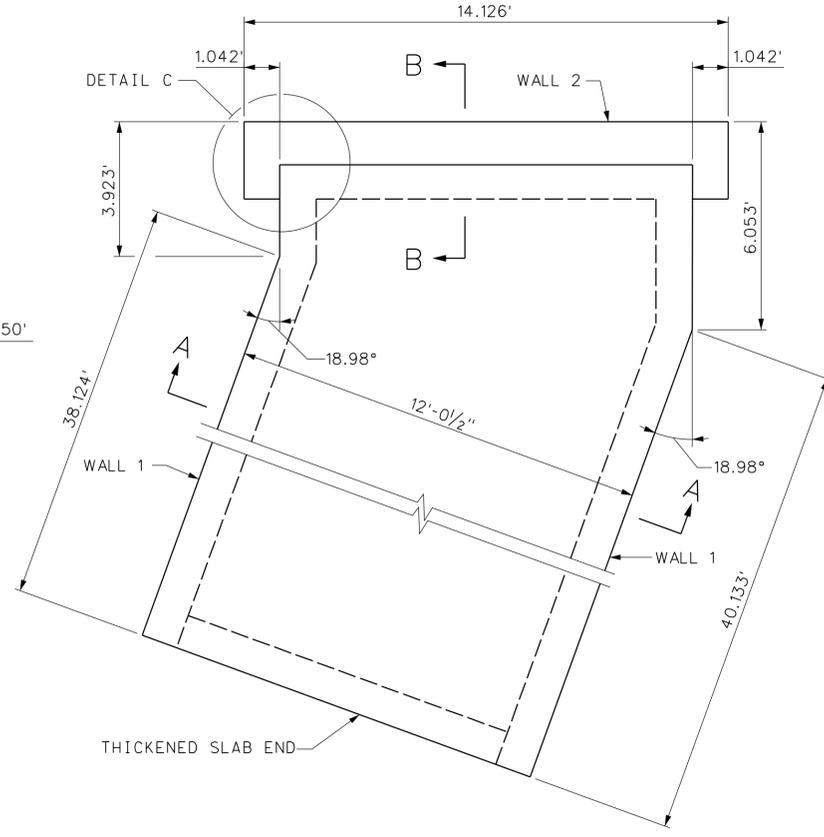
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Drawn	JS	Approved	LNH	Sheet	10 of 28

BAR TABLE

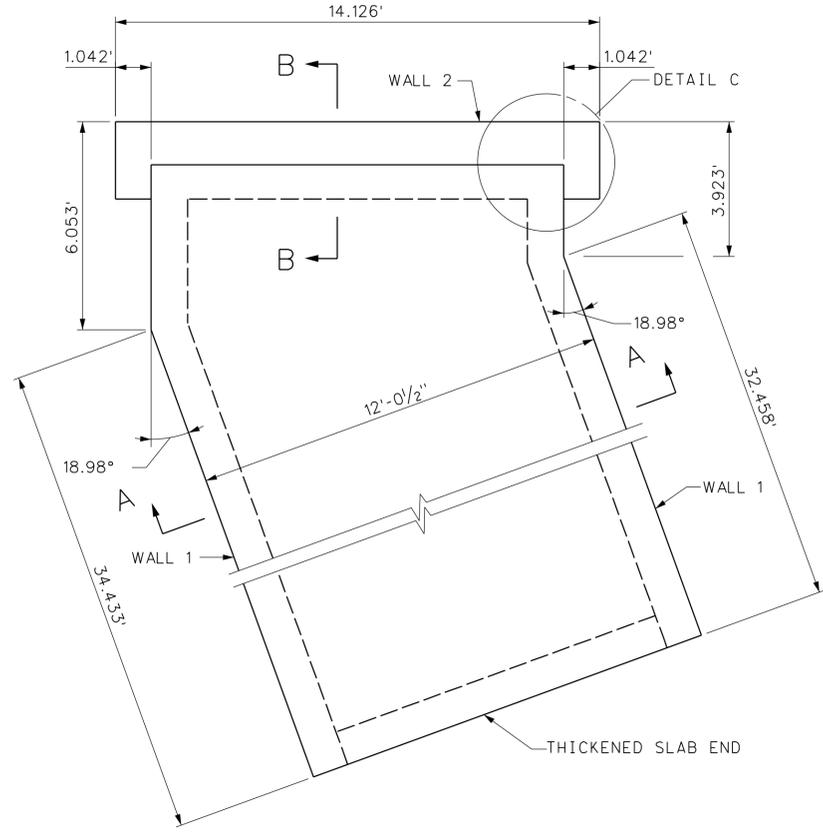
BAR	SIZE
A	#4
A1	#6
A2	#6
A3	#5
B1	#5
B2	#4
C1	#4
C2	#4
DOWEL	#4
E	#4
F2	#4
L	#4
L1	#3
L2	#3
T	#4
U1	#4
U2	#4



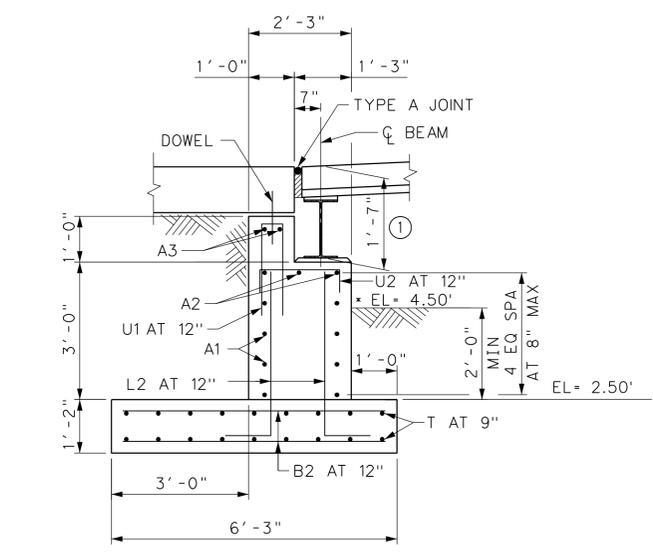
SECTION A-A (WALL 1)



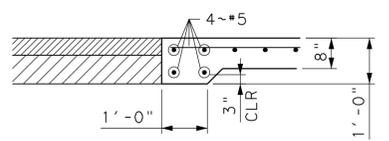
PLAN (SPAN 1)



PLAN (SPAN 8)



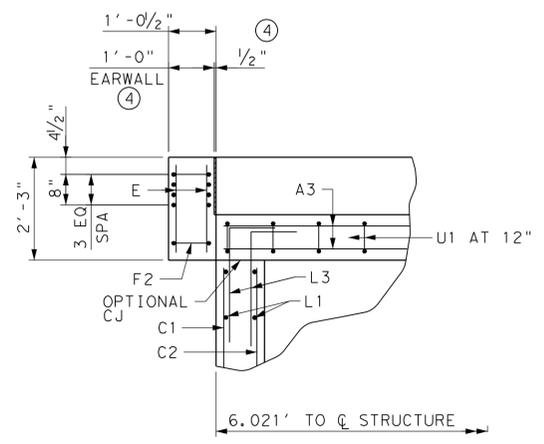
SECTION B-B (WALL 2)



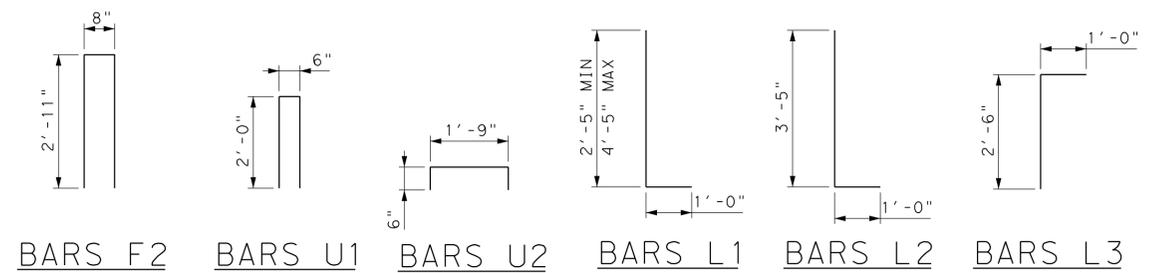
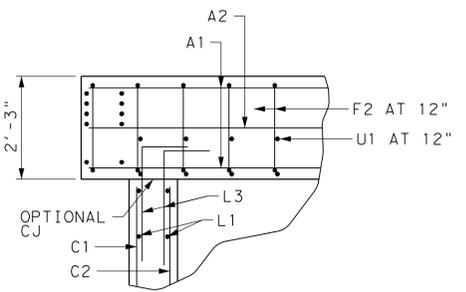
THICKENED END DETAIL

- ① CONTRACTOR TO VERIFY WITH MANUFACTURER AND ADJUST AS NECESSARY.
- ③ CONFIRM WITH PREFAB BRIDGE MANUFACTURER, ADJUST CONTROL ELEVATIONS IF NECESSARY.
- ④ 1/2" PREFORMED BITUMINOUS FIBER MATERIAL BETWEEN SLAB BEAM AND EARWALL. BOND TO EARWALL WITH AN APPROVED ADHESIVE. INSIDE FACE OF EARWALL TO BE CAST PERPENDICULAR TO CAP. (TYP)

GENERAL NOTES:
 DESIGNED ACCORDING TO AASHTO LRFD SPECIFICATIONS.
 CONCRETE STRENGTH F'c = 4,000 PSI.
 ALL REINFORCING SHALL BE GRADE 60.
 BAR LAPS, WHERE REQUIRED SHALL BE AS FOLLOWS:
 EPOXY COATED ~ #4 = 2'-1"
 ~ #5 2'-7"



DETAIL C
 ① BARS L3 TO MATCH C1 & C2



Wally R. Burns 4/28/2015

NO.	DATE	REVISION	APPROV.
4			
3			
2			
1			

GALVESTON COUNTY
 61ST STREET PEDESTRIAN BRIDGE
 61ST STREET PEDESTRIAN BRIDGE
 RAMP DETAILS

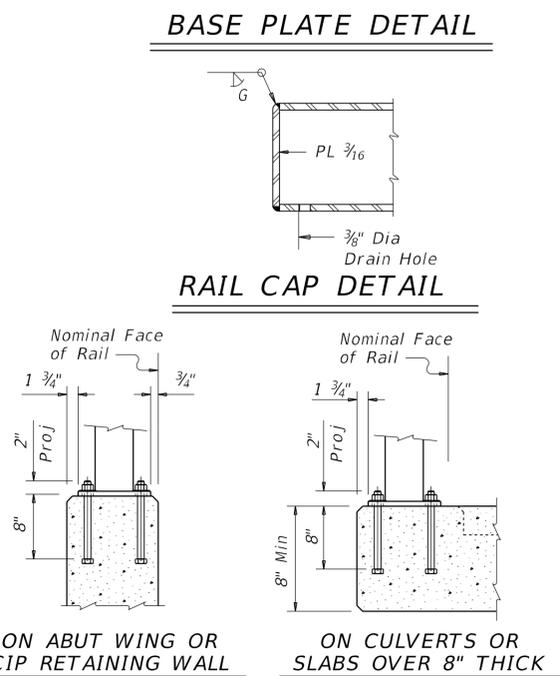
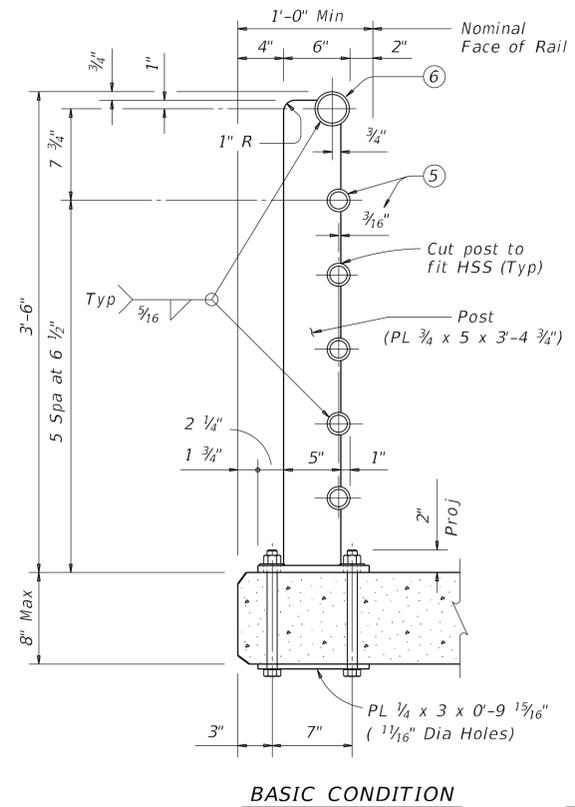
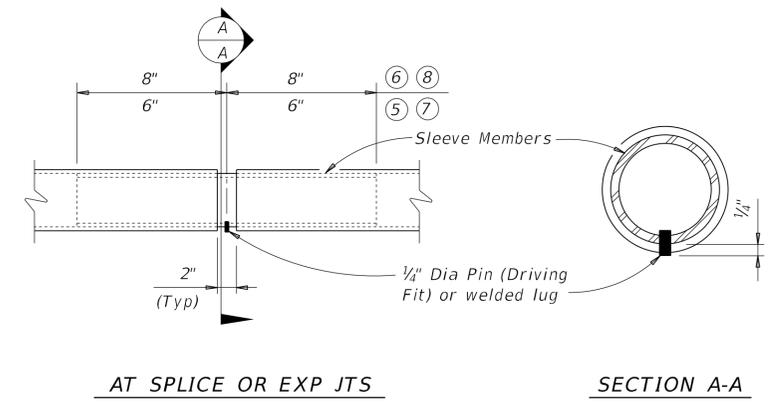
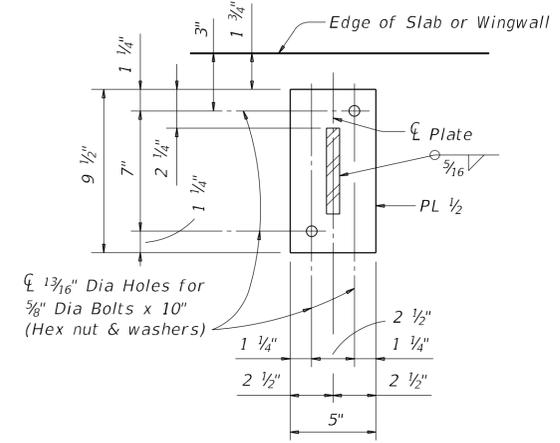
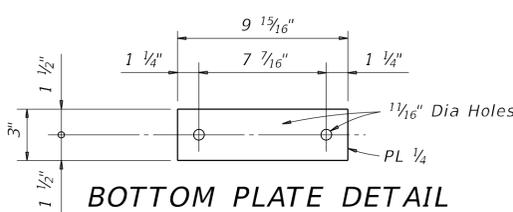
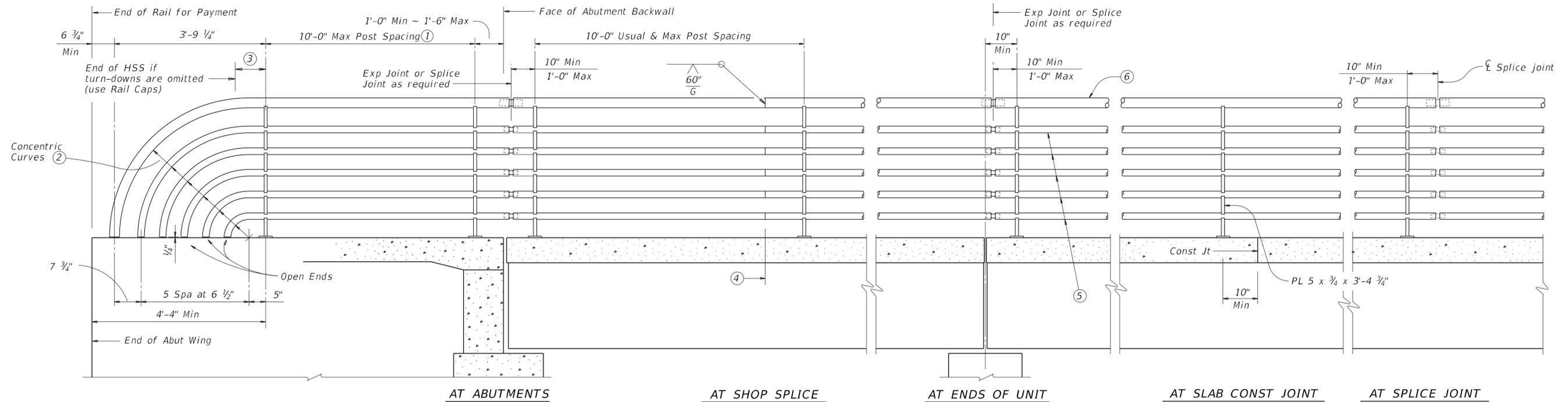


AECOM TECHNICAL SERVICES, INC.
 5444 WESTHEIMER RD, SUITE 200
 HOUSTON, TEXAS 77056
 WWW.AECOM.COM
 TBPE REG. NO. F-3580

Unit	PUBLIC WORKS	Scale:	NTS	Date	MARCH 2015
Designed	LNH	Checked	WRB	Project No.	60313709
Drawn	JS	Approved	LNH	Sheet	11 of 28

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DATE: FILE:



CONSTRUCTION NOTES:
 Panel lengths of railing must be attached to a minimum of three posts except at abutment wingwalls. Face of rail and posts must be vertical transversely unless otherwise approved. Posts must be perpendicular to adjacent roadway grade. Use Type VIII epoxy mortar under post base plates if gaps larger than 1/16" exist. For curved railing applications, fabricate the HSS rails to the radius when the radius is 600' or less. Submit shop drawings for approval when tubes are required to be fabricated to a radius. Shop drawings must be submitted to the Engineer for approval. Round or chamfer exposed edges of HSS rail and HSS rail posts to approximately 1/16" by grinding.

MATERIAL NOTES:
 Provide ASTM-A500 Grade B, A1085 or A53 Grade B for all HSS. Provide ASTM-A36 for posts and plates. Galvanize all steel components unless otherwise shown. Anchor bolts must be 3/8" Dia ASTM A307 Grade A bolts (or A36 threaded rods with one tack welded hex nut each) with one hex nut and one hardened steel washer at each bolt. Threaded rods may be 0.557" minimum diameter with rolled threads. Nuts must conform to A563 requirements.

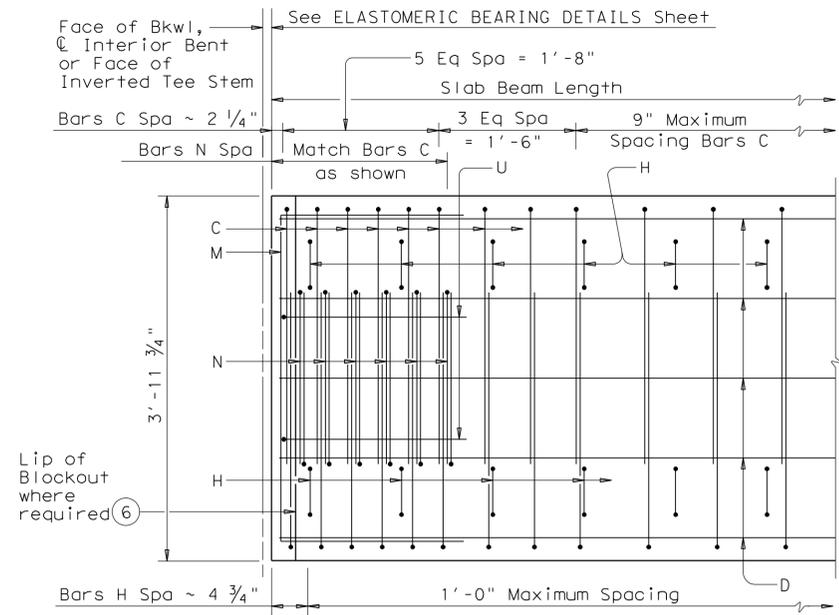
GENERAL NOTES:
 Designed according to AASHTO LRFD Specifications. Rail anchorage details shown on this standard may require modification for select structure types. See appropriate details elsewhere in plans for these modifications. Do not use this railing on bridges with expansion joints providing more than 5" movement. For all rails, submit erection drawings showing section lengths, splice locations, rail post spacing and anchor bolt setting for approval. Average weight of railing is 30 plf.

- ① Min of 2 posts required on wingwall
- ② Portion of railing with turn-downs to be used or omitted as indicated on Bridge Layout.
- ③ 10" Min ~ 1'-6" Max if turn-downs are omitted.
- ④ One shop splice per panel is permitted (with minimum 85 percent penetration). The weld may be square groove or single vee groove. Grind smooth.
- ⑤ HSS 2.375 x 0.154
- ⑥ HSS 3.500 x 0.216
- ⑦ HSS 1.900 x 0.145
- ⑧ HSS 2.875 x 0.203

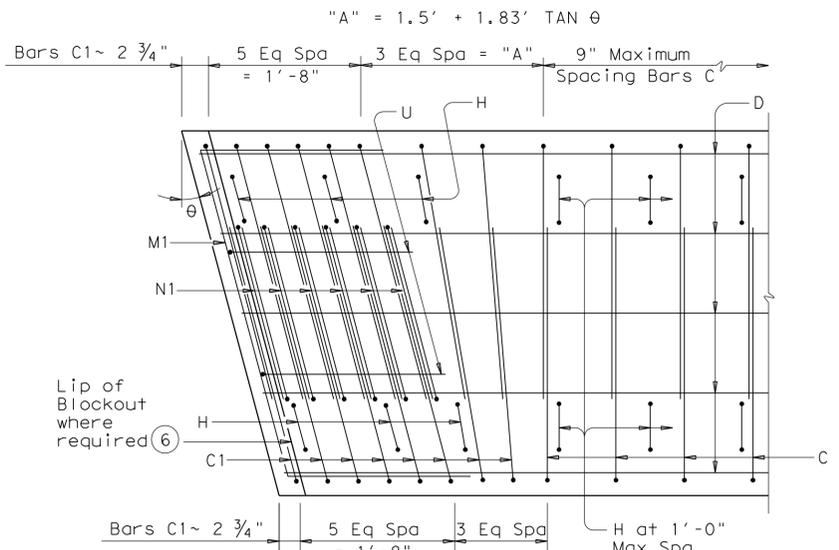
		Bridge Division Standard	
<h2>PEDESTRIAN RAIL</h2>			
<h3>TYPE PR1</h3>			
FILE: r1std028.dgn	DN: TxDOT	CK: TxDOT	DW: JTR
©TxDOT July 2014	CONF	SECT	JOB
REVISIONS		HIGHWAY	
DIST		COUNTY	SHEET NO.
		GALVESTON	13

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DATE: FILE:

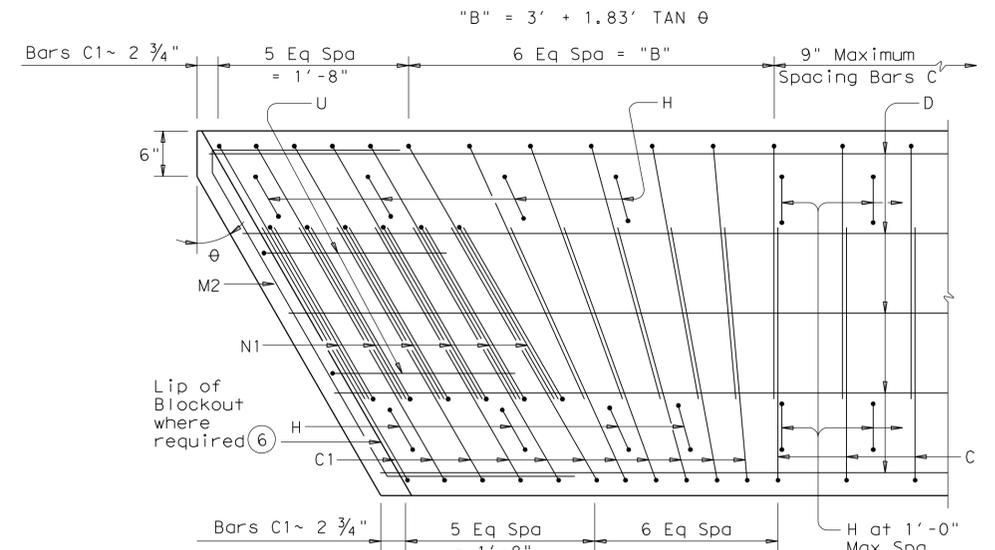


PART PLAN



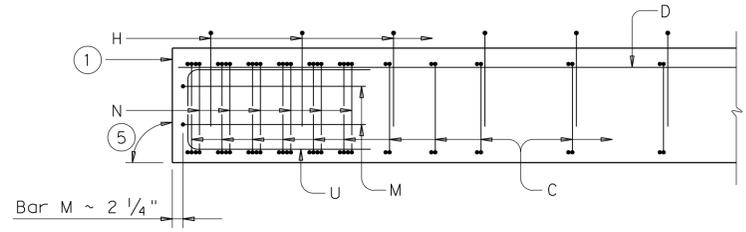
PART SKEW PLAN

(Showing θ over 0° to 15° Skew)

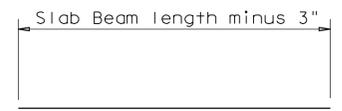


PART SKEW PLAN

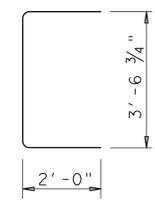
(Showing θ over 15° to 30° Skew)



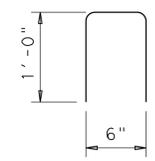
ELEVATION



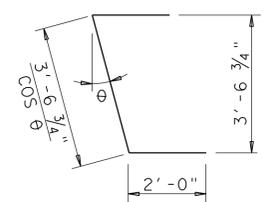
BARS D (#6)



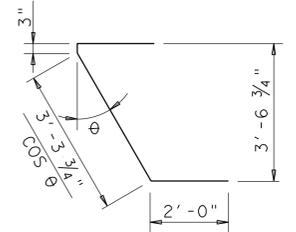
BARS M (#4)



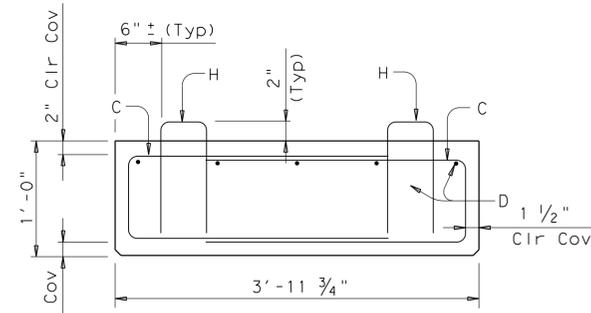
BARS H (#4)



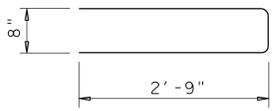
BARS M1 (#4)



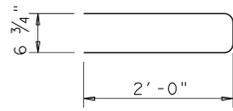
BARS M2 (#4)



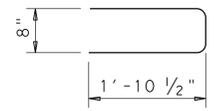
SECTION



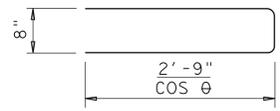
BARS C (#4)



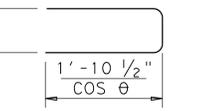
BARS U (#5)



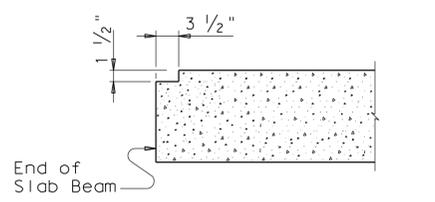
BARS N (#4)



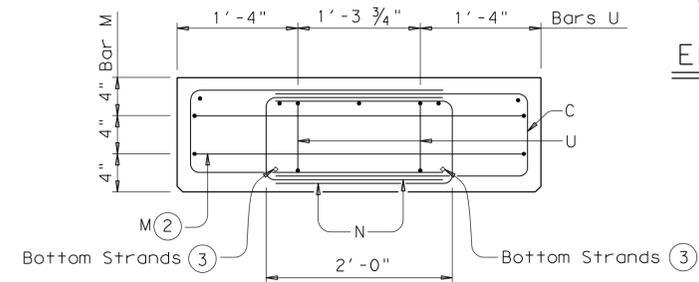
BARS C1 (#4)



BARS N1 (#4)



ELEVATION OF BLOCKOUT (6)



END MAT REINFORCING

Bars H not shown for clarity.

BEAM PROPERTIES		
Area	in ²	573.0
Y Top	in	6.00
Y Bott	in	6.00
I	in ⁴	6,876
Weight	lb/ft	597

GENERAL NOTES:
 Designed according to AASHTO LRFD Specifications.
 All concrete shall be Class H. Provide Class H (HPC) if shown elsewhere in the plans.
 All reinforcing bars shall be Grade 60.
 See TRAFFIC RAIL DETAILS and RAIL ANCHORAGE DETAILS for additional reinforcing or anchorage hardware to be cast in slab beams.
 An equal area of welded wire reinforcement (WWR) (ASTM 1064) may be substituted for bars C and D if approved by the Engineer.
 These details can be used for any skew angle up to a maximum of 30 degrees.
 All exposed corners shall be chamfered 3/4" or rounded to a 3/4" radius.
 Details are drawn showing Right Forward skew. See Bridge Layout for actual direction.

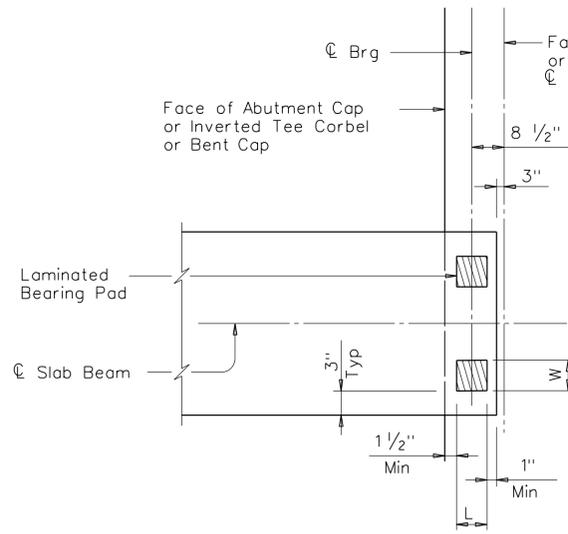
- (1) See END MAT REINFORCING detail.
- (2) Bars M may be adjusted vertically to avoid strands.
- (3) See sheet PSBNS or PSBSD for strand locations.
- (4) Assumes 150 pcf weight density of concrete.
- (5) 90° at Conventional Interior Bents. End of Beam shall be vertical at Abutment Backwall and Inverted Tee Stem Bents.
- (6) Blockout required at Armor Jt and SEJ locations to accommodate joint anchorage.

HL93 LOADING

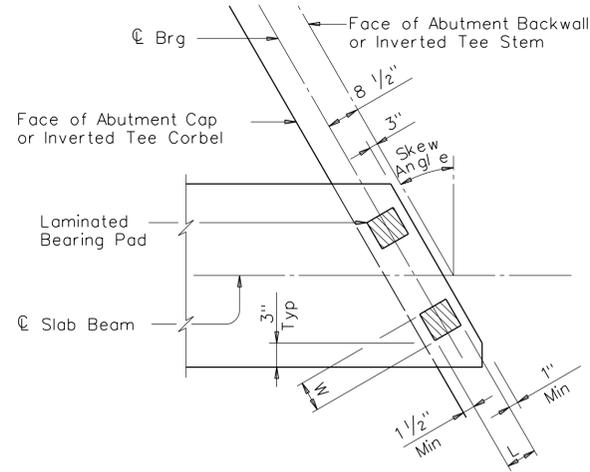
		Bridge Division Standard	
PRESTRESSED CONCRETE SLAB BEAM DETAILS (TYPE 4SB12) PSB-4SB12			
FILE: psbsts01.dgn	DN: TxDOT	CK: TxDOT	DW: TxDOT
©TxDOT August 2009	CONF	SECT	JOB
REVISIONS		HIGHWAY	
DIST		COUNTY	SHEET NO.
		GALVESTON	14

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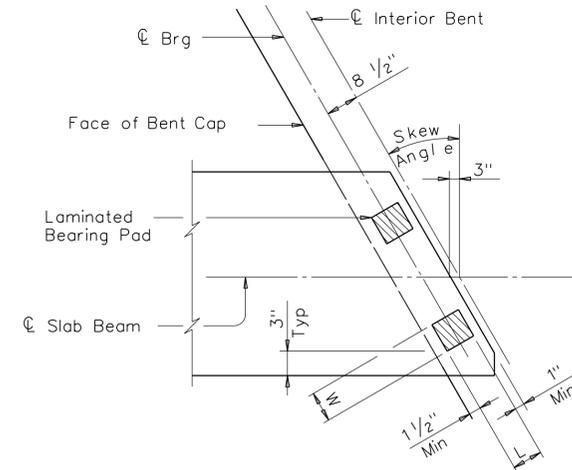
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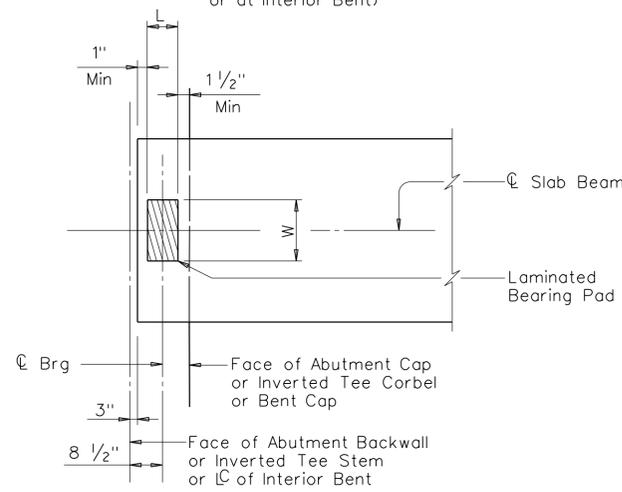
TWO-PAD DETAIL PLAN
(At Abutment or Inverted Tee Cap or at Interior Bent)



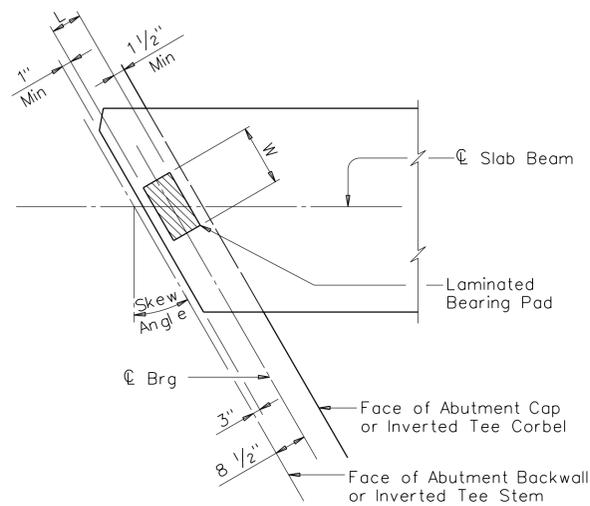
TWO-PAD DETAIL SKEW PLAN
(At Abutment or Inverted Tee Cap)



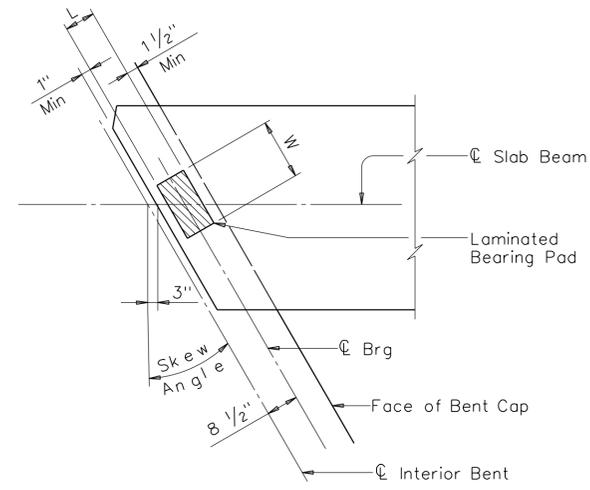
TWO-PAD DETAIL SKEW PLAN
(At Interior Bent)



ONE-PAD DETAIL PLAN
(At Abutment or Inverted Tee Cap or at Interior Bent)



ONE-PAD DETAIL SKEW PLAN
(At Abutment or Inverted Tee Cap)



ONE-PAD DETAIL SKEW PLAN
(At Interior Bent)

TABLE OF ELASTOMERIC BEARING PAD DIMENSIONS (ALL PRESTR CONC SLAB BM TYPES)

One-Pad (Ty SB1-"N")			Two-Pad (Ty SB2-"N")		
W	L	T	W	L	T
14"	7"	2"	7"	7"	2"

Pad sizes shown are applicable for the following conditions:

- (1) All one, two and three span units where the minimum span length is not less than 25' and the maximum span is not more than 50'.
- (2) Skews less than or equal to 30°.

GENERAL NOTES:

Shop drawings for approval are required. A bearing layout which identifies location and orientation of all bearings shall be developed by the bearing fabricator. Permanently mark each bearing in accordance with the bearing layout. A copy of the bearing layout is to be provided to the Engineer. Cost of furnishing and installing elastomeric bearings shall be included in unit price bid for "Prestressed Concrete Slab Beams".



Wally R. Burns

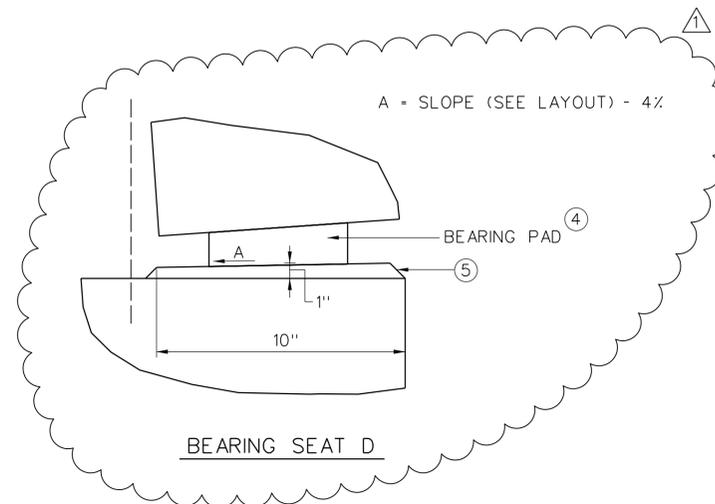
4/28/2015

ELASTOMERIC BEARING PLACEMENT DIAGRAMS

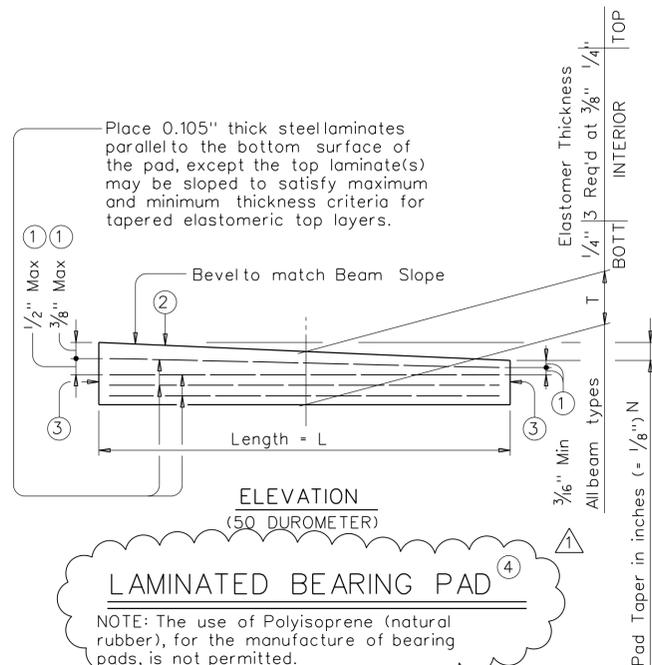
Place one bearing at forward station beam end.
Place two bearings at back station beam end.

- ① Maximum and minimum layer thicknesses shown are for elastomer only, on tapered layers.
- ② BEARING TYPE shall be indicated on all pads. For tapered pads, BEARING TYPE shall be located on the high side. The Fabricator shall include the value of "N" (amount of taper in 1/8" increments) in this mark. Examples: N=0, (for 0" taper)
N=1, (for 1/8" taper)
N=2, (for 1/4" taper) (etc.)
Fabricated pad top surface slope shall not vary from plan beam slope by more than (0.0625" / Length) IN/IN.

- ③ Locate Permanent Mark here.
- ④ Use 4% slope for all pads.
- ⑤ Provide slope epoxy grout bearing seats length = 11" @ 2 pad end and length = 18" at one pad end.



04/2015 - AECOM
ADDED BEARING SEAT DETAIL



LAMINATED BEARING PAD

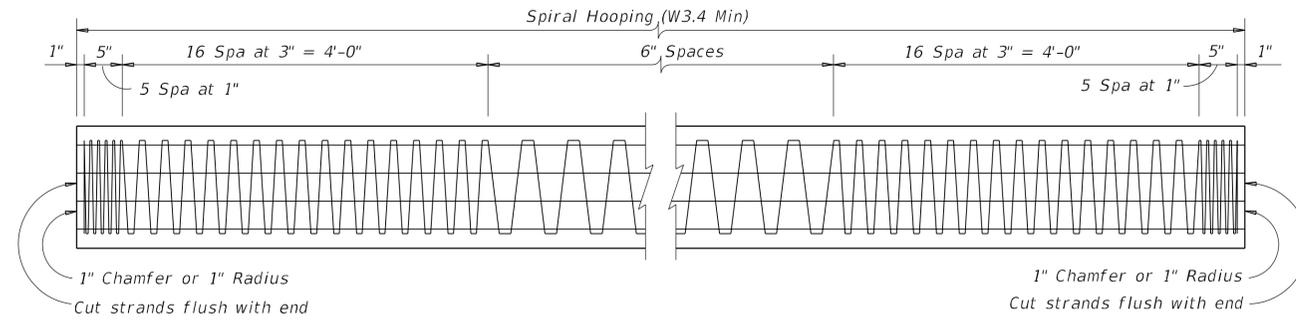
NOTE: The use of Polyisoprene (natural rubber), for the manufacture of bearing pads, is not permitted.

HL93 LOADING

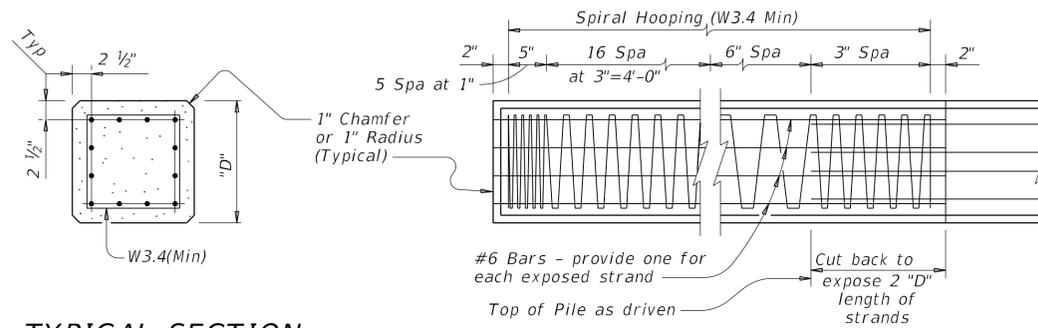
		Bridge Division Standard	
ELASTOMERIC BEARING DETAILS SKEWS FROM 0° TO 30° PRESTR CONCRETE SLAB BEAM PSBEB (MOD)			
FILE: psbste06.dgn	DN: TxDOT	CK: TxDOT	DW: TxDOT
©TxDOT August 2009	CONT	SECT	JOB
REVISIONS	DIST		COUNTY
			SHEET NO.
	GALVESTON		15

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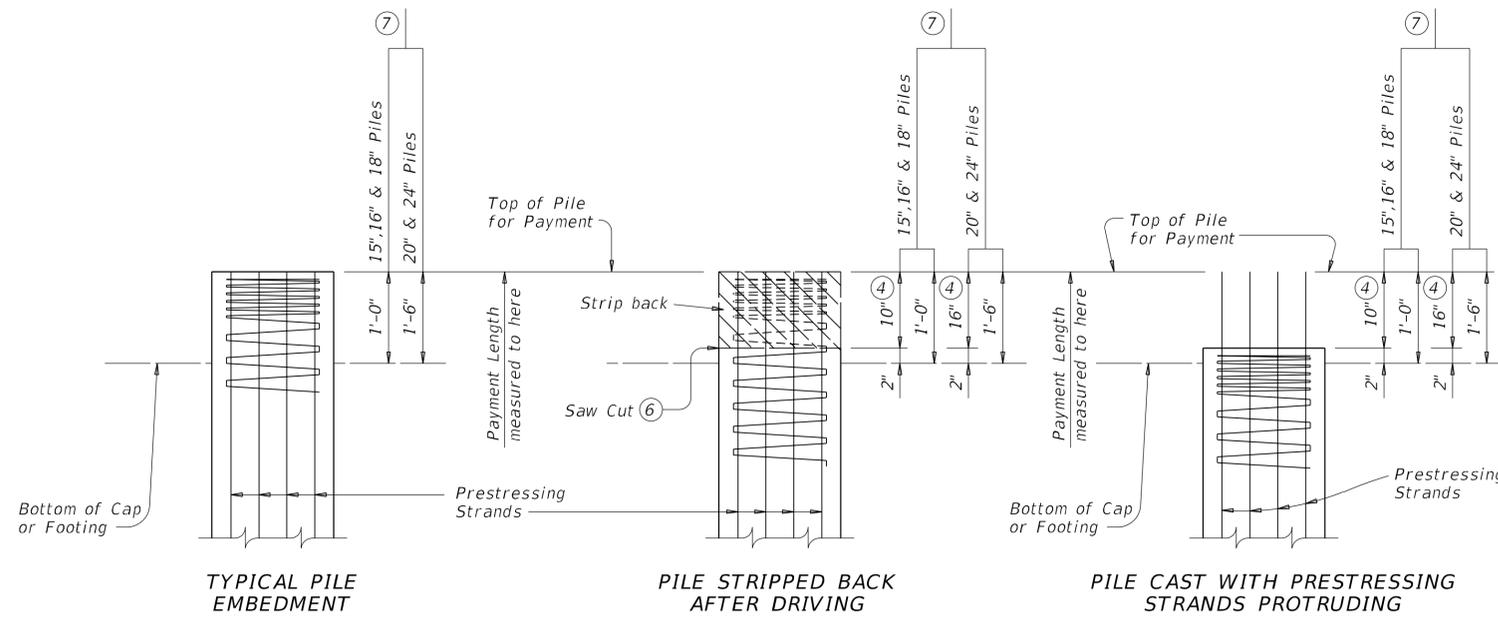


PILE DETAILS



TYPICAL SECTION THRU PILE ①

PILE BUILD-UP DETAIL ②



PILE EMBEDMENT DETAILS ③

TABLE OF PROPERTIES FOR PRESTRESSED CONCRETE PILES

Pile Size "D"	Area of Pile Section Sq In	I In ⁴	Weight Lb/Ft	Prestressing ⑤		
				No.	Initial Prestress Force Kips	Concrete Final Prestress (15% Loss) psi
16"	254	5,340	265	8	231	774
18"	322	8,600	336	10	289	763
20"	398	13,150	415	14	405	864
24"	574	27,380	598	18	520	770

- ① Locate strands symmetrically about the axis of the pile, with no more than one strand difference between any two adjacent sides.
- ② Provide Class S Concrete for pile build-ups.
- ③ Payment for piles will be in accordance with the details shown. Strip back piling and extend prestressing strands into substructure when piling conflicts with substructure reinforcing or when the side cover from pile edge to substructure edge is less than 4" after driving.
- ④ Provide more strip back if indicated. When stripped back piles are required, strip back piling after driving or cast short with strands protruding from top of piling as shown.
- ⑤ Provide 1/2" 270 ksi low relaxation strands tensioned to 28.9 kips each. If an optional design is used, provide a minimum Concrete Final Prestress of 750 psi. Submit optional designs for approval.
- ⑥ Saw cut 1/2" deep around perimeter of pile at the breakback line.
- ⑦ Unless shown otherwise.

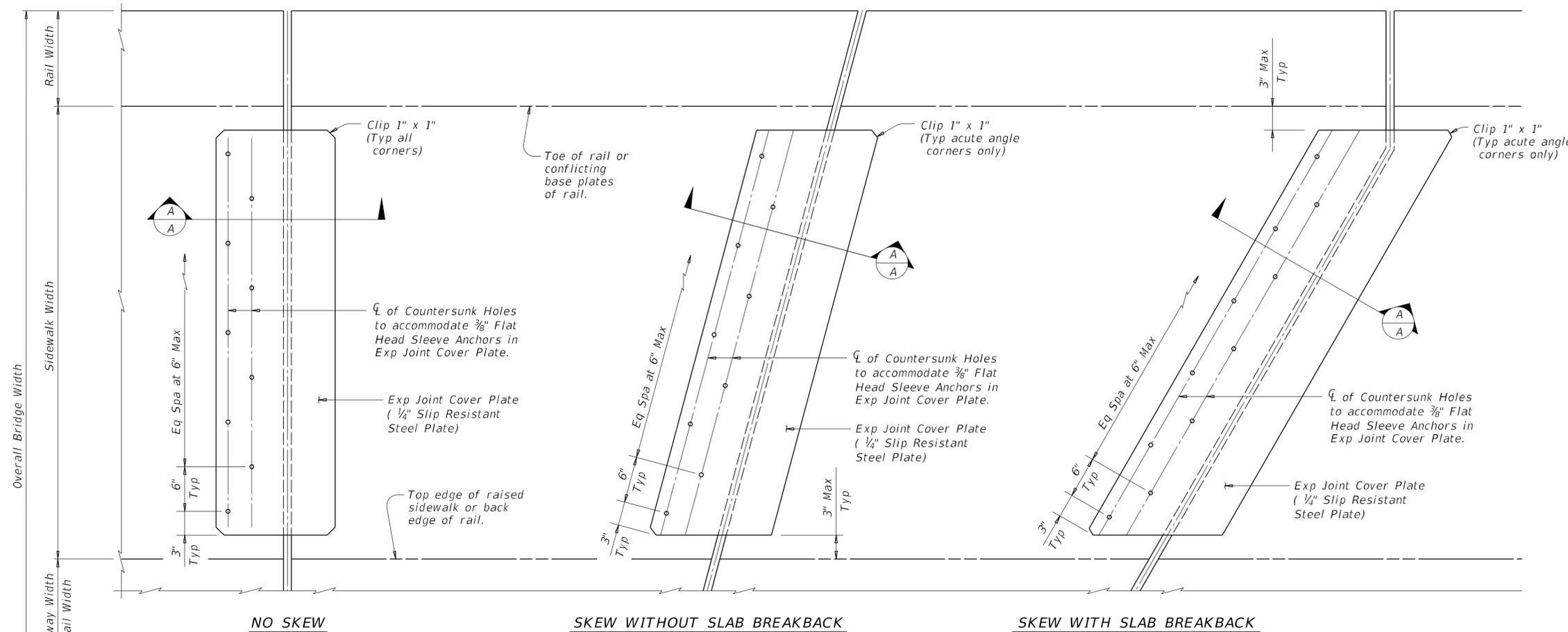
FABRICATION NOTES:

Provide Class H Concrete. Provide sulfate resistant concrete when required.
 Minimum release strength, $f'_{ci} = 4000$ psi.
 Minimum 28-day strength, $f'_c = 5000$ psi.
 All dimensions relating to prestressing steel are to centers of strands or bars.
 See Layout for size, number, and length of piling.
 Shop drawing submittal and approval is not required if fabrication is in accordance with the details shown on this standard.

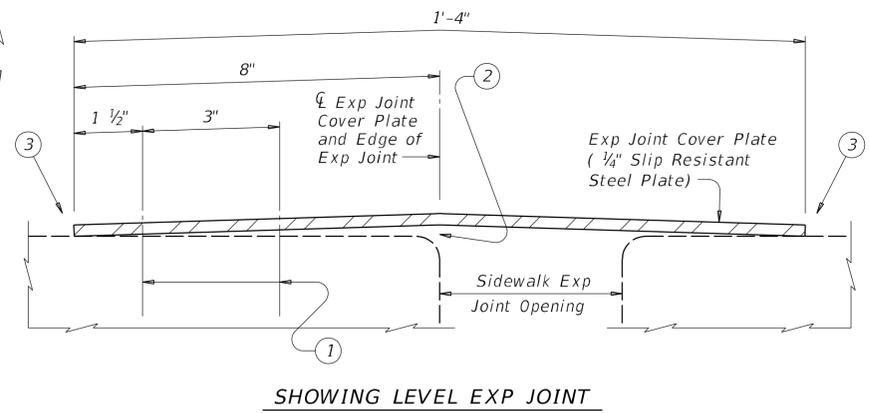
				Bridge Division Standard	
<h2>PRESTRESSED CONCRETE PILING</h2>					
<h3>CP</h3>					
FILE: cpstde01.dgn	DN: TxDOT	CK: TxDOT	DW: TxDOT	CR: TxDOT	
©TxDOT January 2015	CONF	SECT	JOB	HIGHWAY	
REVISIONS					
	DIST	COUNTY	SHEET NO.		
	GALVESTON		16		

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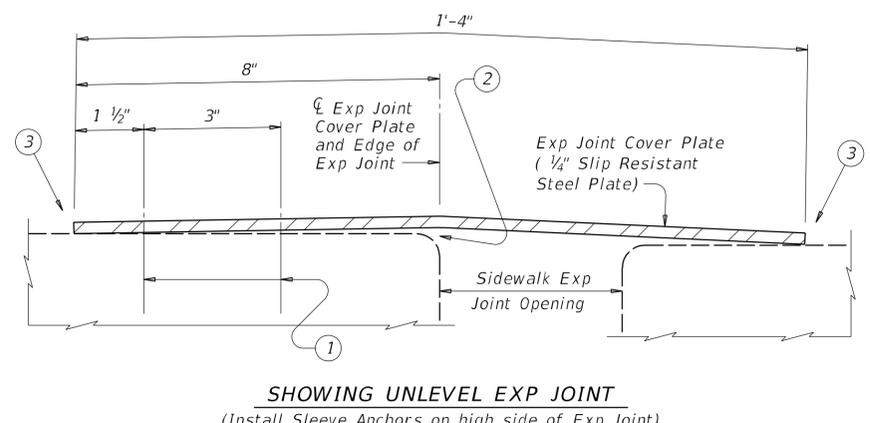
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PLAN



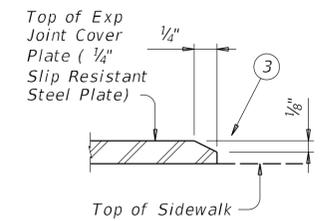
SHOWING LEVEL EXP JOINT



SHOWING UNLEVEL EXP JOINT
(Install Sleeve Anchors on high side of Exp Joint)

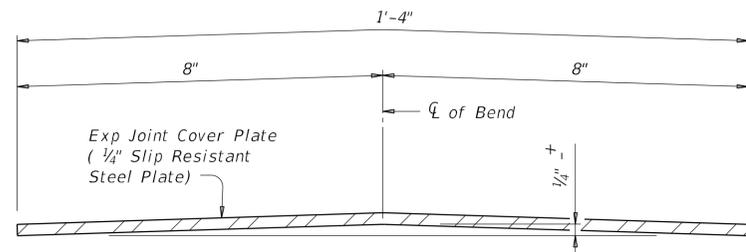
SECTION A-A

- ① $\frac{3}{8}$ " x 2 $\frac{1}{2}$ " Min, Flat Head Sleeve Anchors, Stainless Steel. Countersink Flat Head Sleeve Anchors in $\frac{1}{4}$ " Slip Resistant Steel Plate.
- ② It is not necessary to remove plate crown provided the plate is firmly secured to the sidewalk.
- ③ Transverse edges must be in contact with sidewalk surface after installation.



EXP JOINT COVER PLATE BEVEL DETAIL

Bevel all plate edges as shown.



BENDING DIAGRAM OF EXP JOINT COVER PLATE

APPROVED SLIP RESISTANT PLATE	
Product	Manufacturer Website
Mebac #3, Steel	www.harscoikg.com
Algrip™, Steel	www.algrip.com
SlipNOT®Grade 2, Steel	www.slipnot.com

FABRICATION NOTES:
Shop drawings for the fabrication of Sidewalk Expansion Joint Cover Plate will not require the Engineer's approval if fabrication is in accordance with the details shown on this standard.

A Bridge Sidewalk Expansion Joint Cover Plate Layout which identifies location side of sleeve anchors and orientation of all cover plate sections must be developed by the fabricator. Mark each steel section in accordance with the Bridge Sidewalk Expansion Joint Cover Plate Layout. A copy of the Bridge Sidewalk Expansion Joint Cover Plate Layout is to be provided to the Engineer.

Sidewalk expansion joint cover plates must be hot-dipped galvanized $\frac{1}{4}$ " slip resistant steel plate. Checker plate or diamond plate is not allowed nor are slip resistant tapes, films and non-metallic coatings.

Minimum required yield strength of steel plate is 36 ksi.

Hot-dip galvanize slip resistant steel plate after fabrication in accordance with Item 445, "Galvanizing".

Provide stainless steel flat head sleeve anchors meeting the requirements of ASTM F 593, Group 1, Alloy 304. Countersink holes in slip-resistant plate for sleeve anchors. Drill holes in sidewalk as per sleeve anchor manufacturer's recommendations. Install sleeve anchors flush with, or slightly recessed below, top surface of sidewalk expansion joint cover plate.

GENERAL NOTES:

Sidewalk expansion joint cover plates can only accommodate up to a 7" maximum expansion joint. Details provided are applicable to concrete walkway surfaces only.

Payment for sidewalk expansion joint cover plates must be by the pound of "Structural Steel (Misc Non-Bridge)" as per Item 442, "Metal for Structures".

Estimated weight of one sidewalk expansion joint cover plate is 14 plf.

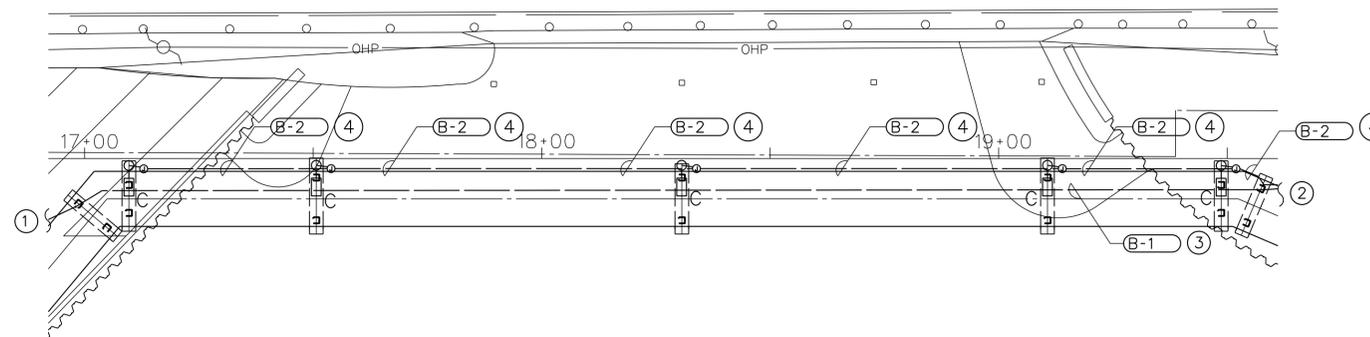
		Bridge Division Standard	
BRIDGE SIDEWALK EXPANSION JOINT COVER PLATE (ALL SKEWS)			
BS-EJCP			
FILE: bsejste1.dgn	DN: TxDOT	CK: TxDOT	DW: TxDOT
CON: TxDOT	SECT: January 2015	JOB: REVISIONS	HIGHWAY:
DIST:	COUNTY:	SHEET NO. 17	
GALVESTON			



20 0 20 40
SCALE: 1" = 20' HORIZONTAL

SHEET NOTES

- ① SEE BOAT RAMP PACKAGE FOR CONTINUATION
- ② SEE WASHINGTON PARK PACKAGE FOR CONTINUATION
- ③ CONDUITS ARE TO BE EMBEDDED IN PEDESTRIAN BRIDGE CONCRETE DECK. SEE STRUCTURAL DRAWINGS.
- ④ CONDUIT FOR LIGHT FIXTURES TYPE C ON BRIDGE BENTS ARE TO BE RIGID ALUMINIUM CONDUIT (6063 T-1) AND SURFACE MOUNTED. SEE STRUCTURAL FOR CONNECTION TO LIGHT POLES. USE STAINLESS STEEL HARDWARE TO MOUNT ALUMINIUM CONDUIT AND INSTALL NEOPRENE PADS BETWEEN ALUMINIUM CONDUIT AND ANY CONTACT POINT WITH STRUCTURAL STEEL.



ELECTRICAL SITE PLAN SCALE: 1"=20'

CODUIT SCHEDULE

TAG	SIZE	CONDUCTORS	CIRCUIT
B-1	1"	2*8,*8GND	LA-1,3
	1"	SPARE	SPARE
B-2	1"	2*12,*12GND	LA-2,4

GENERAL NOTES

1. SEE STRUCTURAL DRAWINGS FOR LIGHT POLE INSTALLATION ON PEDESTRIAN BRIDGE.
2. SEE WASHINGTON PARK PACKAGE DRAWINGS PANELSCHEDULE AND LIGHTING FIXTURE SCHEDULE.



04/28/2015

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NO.	DATE	REVISION	APPROV.

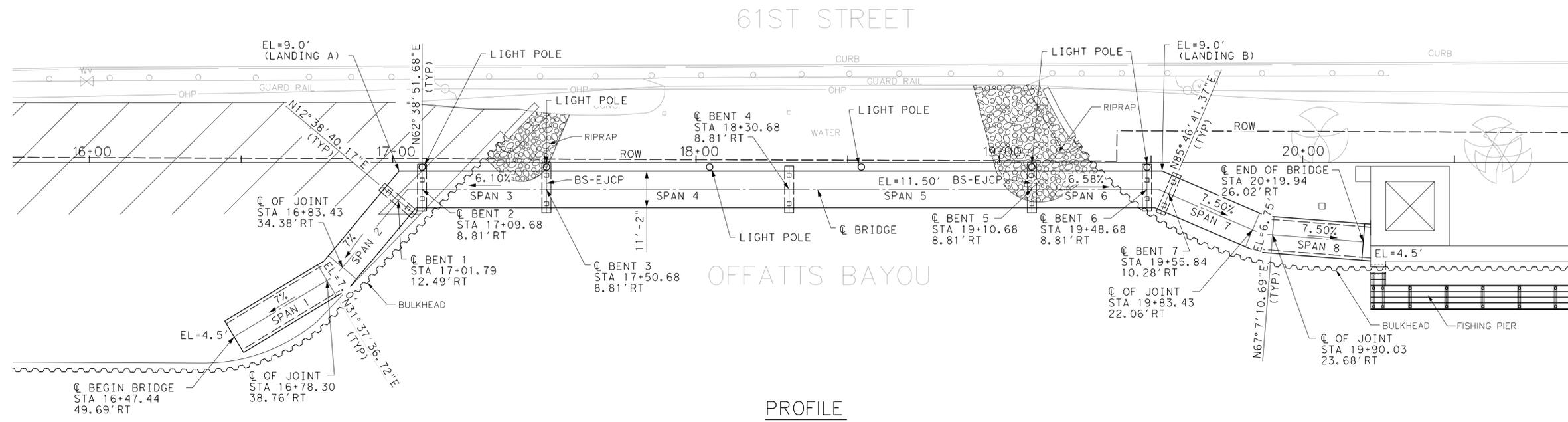
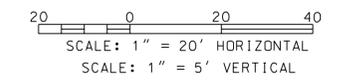
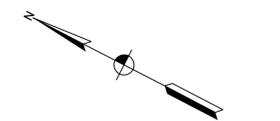
GALVESTON COUNTY
61ST STREET PEDESTRIAN BRIDGE

ELECTRICAL SITE PLAN

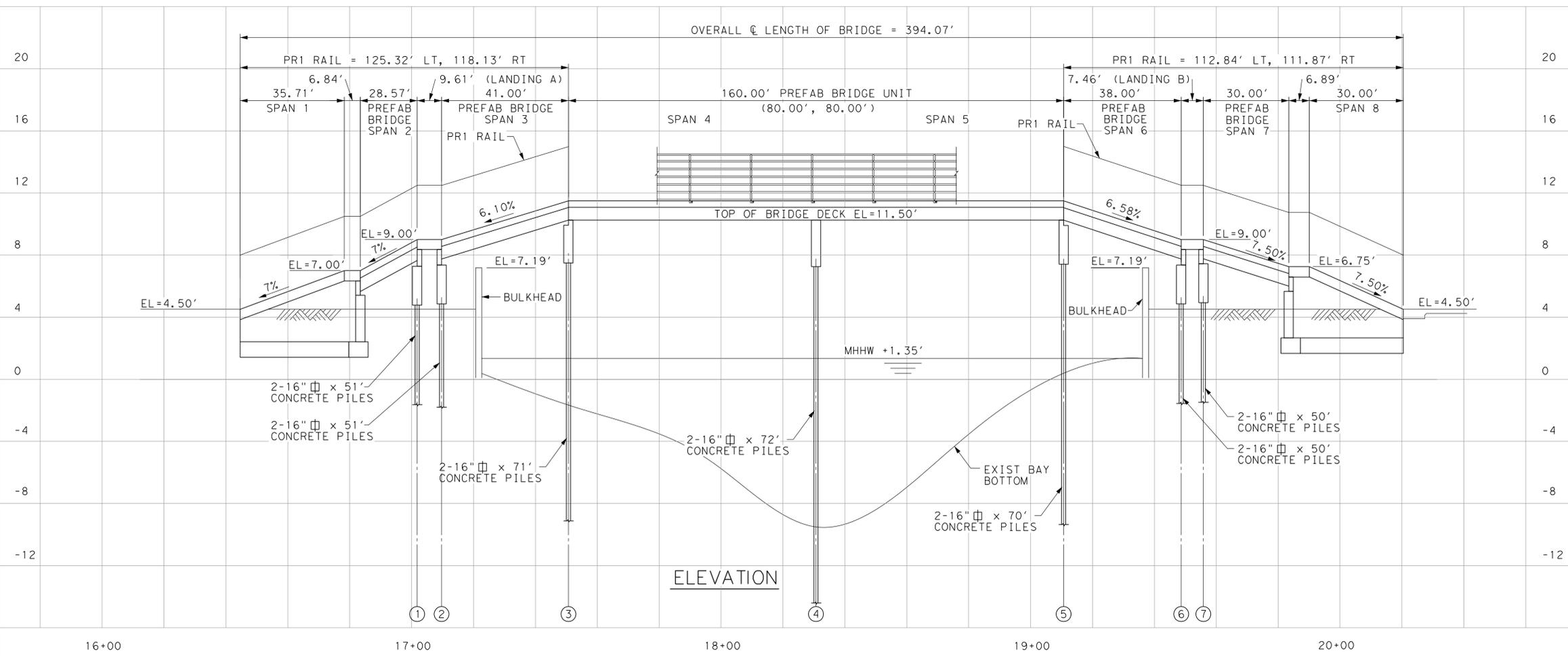
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5444 WESTHEIMER RD, SUITE 200
HOUSTON, TEXAS 77056
WWW.AECOM.COM
TBPE REG. NO. F-3580

Unit	PUBLIC WORKS	Scale:	Date	MARCH 2015
Designed	LNH	Checked	WRB	Project No. 60313709
Drawn	JS	Approved	LNH	Sheet 18 of 28



PROFILE



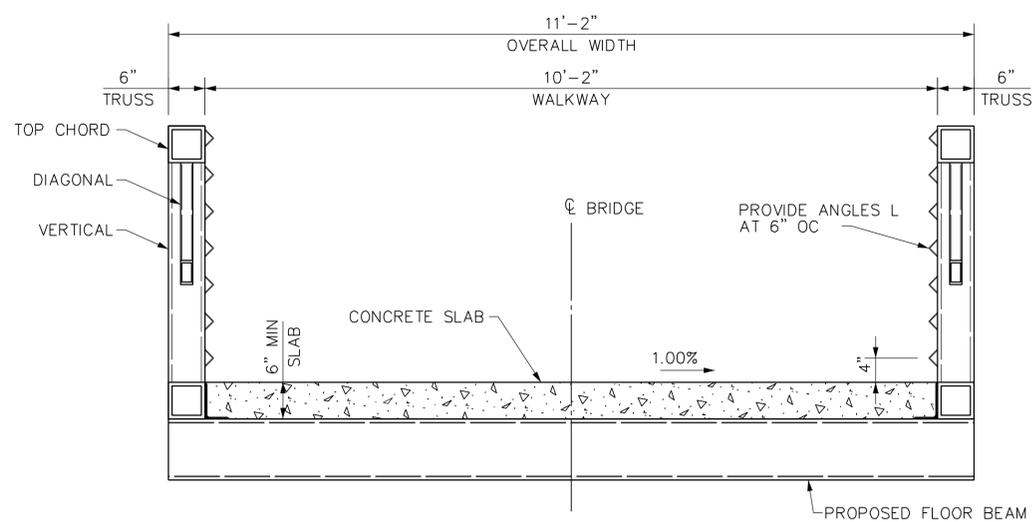
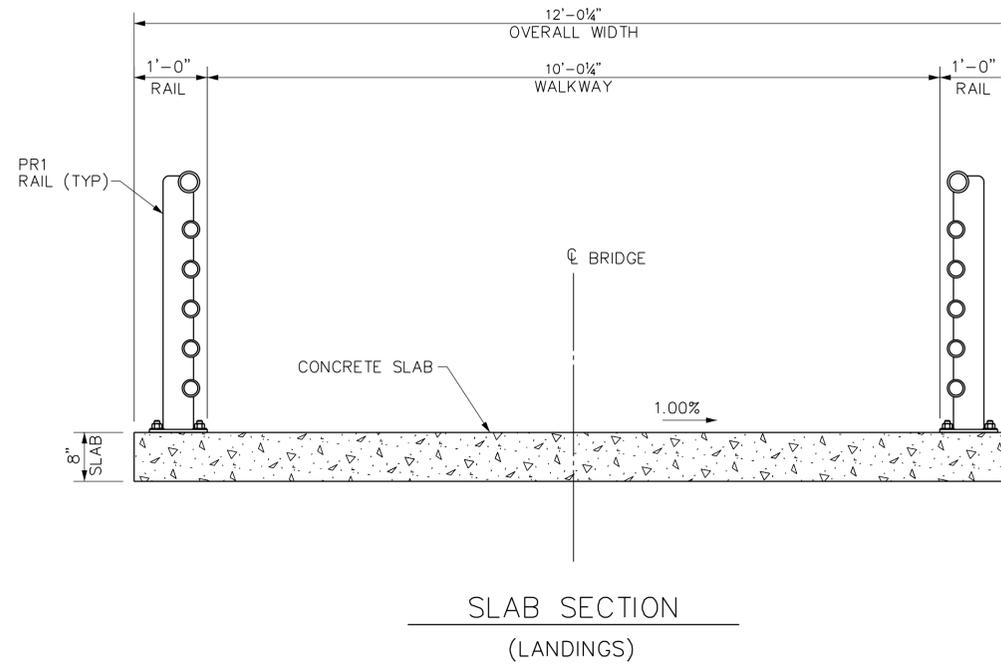
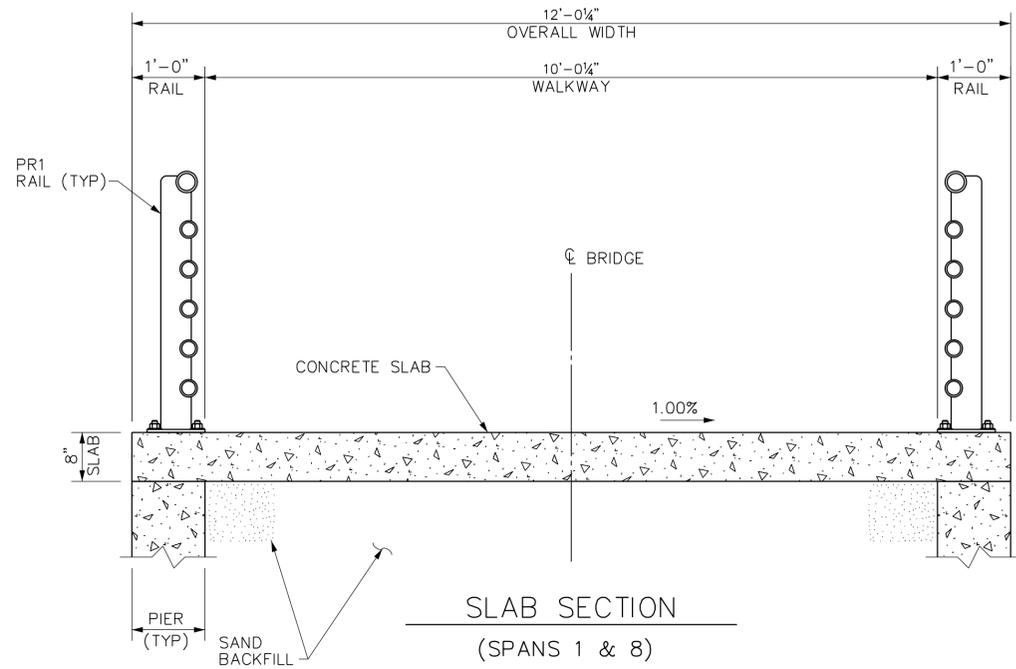
ELEVATION

- GENERAL NOTES:
- DESIGNED IN ACCORDANCE WITH 7TH EDITION AASHTO LRFD SPECIFICATIONS AND 2009 EDITION AASHTO LRFD GUIDE SPECIFICATIONS FOR THE DESIGN OF PEDESTRIAN BRIDGES.
 - DESIGN LOADS -- LL= 90 PSF



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NO.	DATE	REVISION	APPROV.
GALVESTON COUNTY 61ST STREET PEDESTRIAN BRIDGE BRIDGE LAYOUT ALTERNATE			
		<small>AECOM TECHNICAL SERVICES, INC. 5444 WESTHEIMER RD, SUITE 200 HOUSTON, TEXAS 77056 WWW.AECOM.COM TBPE REG. NO. F-3580</small>	
Unit	PUBLIC WORKS	Scale:	NTS
Designed	LNH	Checked	WRB
Drawn	J5	Approved	LNH
Date	MARCH 2015	Project No.	60313709
		Sheet	19 of 28

4/27/2015 8:52:49 AM
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PREFABRICATED BRIDGE SECTION
(SPANS 2 THROUGH 7)
(SEE PREFAB BRIDGE DRAWINGS FOR DETAILS)



Wally R. Burns

4/28/2015

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NO.	DATE	REVISION	APPROV.

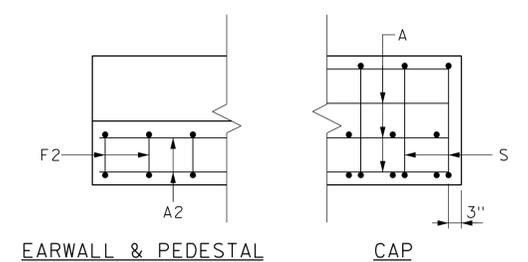
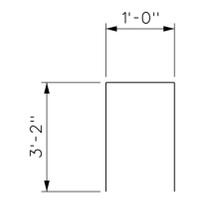
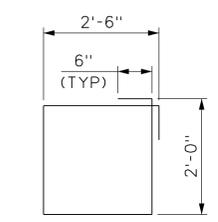
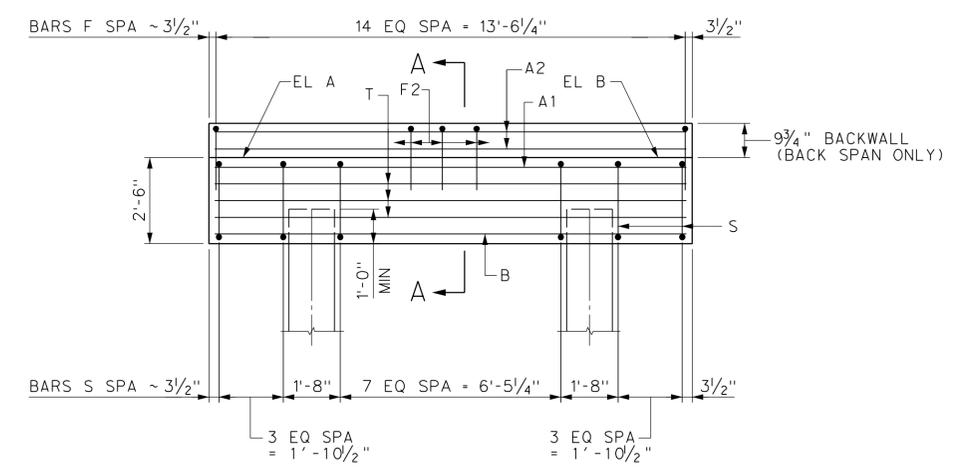
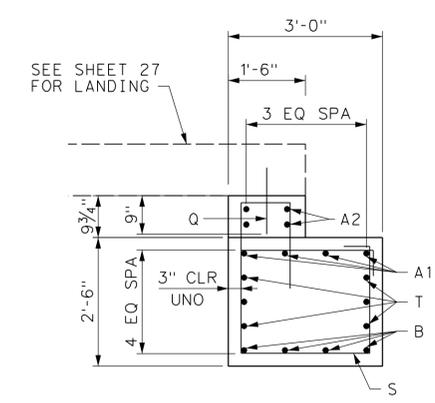
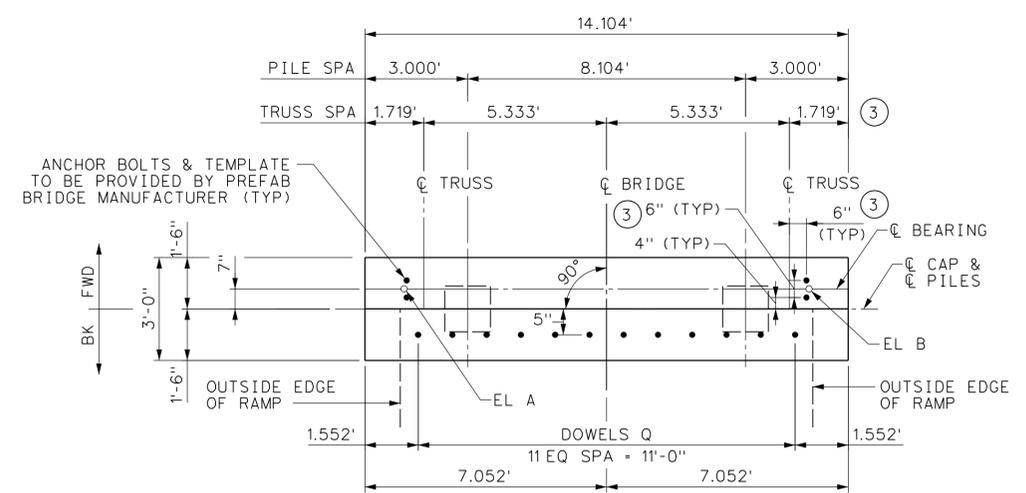
GALVESTON COUNTY
61ST STREET PEDESTRIAN BRIDGE
61st STREET PEDESTRIAN BRIDGE
TYPICAL SECTIONS ALTERNATE



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Unit	PUBLIC WORKS	Scale:	1" = 20'	Date	MARCH 2015
Designed	LNH	Checked	WRB	Project No.	60313709
Drawn	J5	Approved	LNH	Sheet	20 of 28

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CAP END DETAIL

CONTROL ELEVATIONS	
ELEV A	ELEV B
7.37'	7.37'

REINFORCING TABLE ②			
BAR	No	SIZE	LENGTH
A1	4	#8	13'-7"
A2	4	#5	13'-7"
B	4	#8	13'-7"
F2	15	#4	7'-4"
Q	12	#4	1'-1"
S	16	#4	9'-10"
T	6	#5	13'-7"

GENERAL NOTES:
 DESIGNED IN ACCORDANCE WITH AASHTO LRFD SPECIFICATIONS FOR DESIGN OF PEDESTRIAN BRIDGES.
 CONCRETE STRENGTH $f'_c = 3,600\text{psi}$.
 ALL CAP REINFORCING SHALL BE GRADE 60.
 PROVIDE EPOXY COATED REINFORCING.
 DESIGN LOADS:
 PEDESTRIAN LL = 90 psf
 FOUNDATIONS LOADS = 21 TONS/PILE

- ① CONTRACTOR TO VERIFY WITH MANUFACTURER AND ADJUST AS NECESSARY.
- ② QUANTITIES ARE FOR ONE BENT ONLY.
- ③ ELEVATIONS ARE BASED UPON A STRUCTURAL DEPTH = 1'-7/2"

Wally R. Burns
 REGISTERED PROFESSIONAL ENGINEER
 STATE OF TEXAS
 WALLY R. BURNS
 44162
 4/28/2015

NO.	DATE	REVISION	APPROV.
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**GALVESTON COUNTY
61ST STREET PEDESTRIAN BRIDGE**

**61ST STREET PEDESTRIAN BRIDGE
BENTS 1 & 7 ALTERNATE**

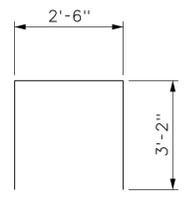
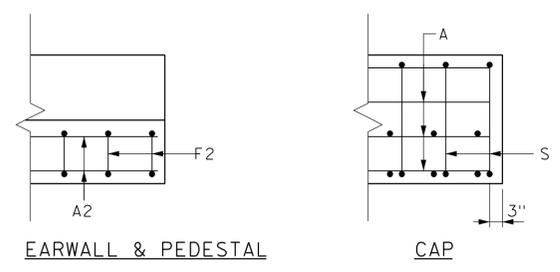
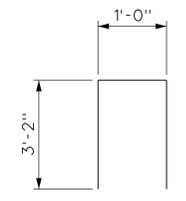
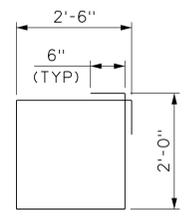
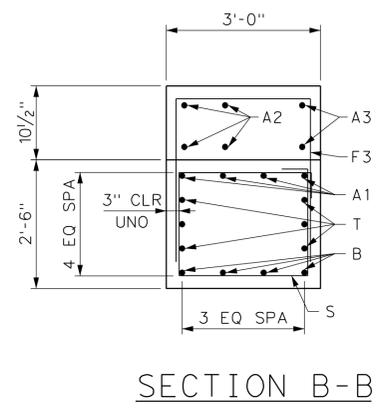
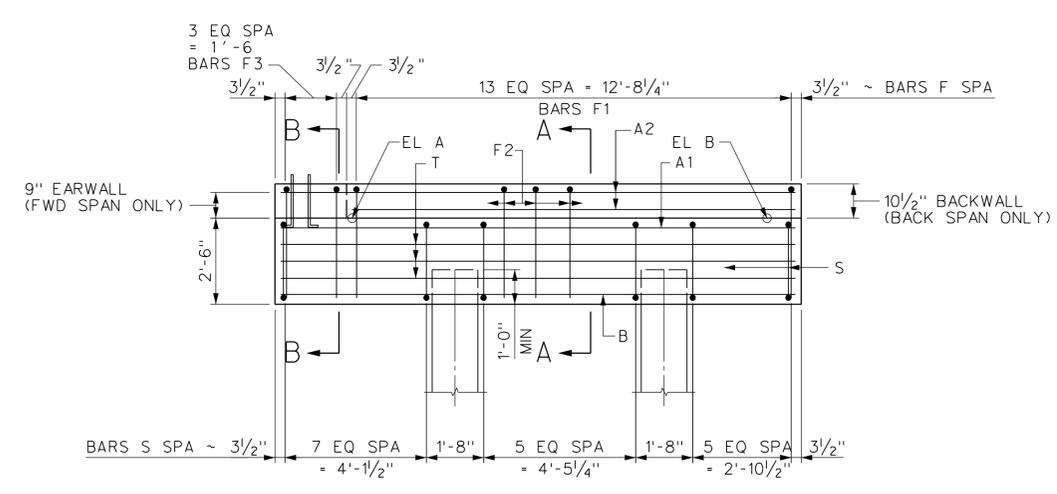
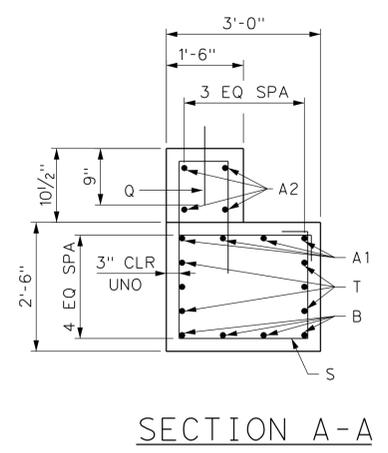
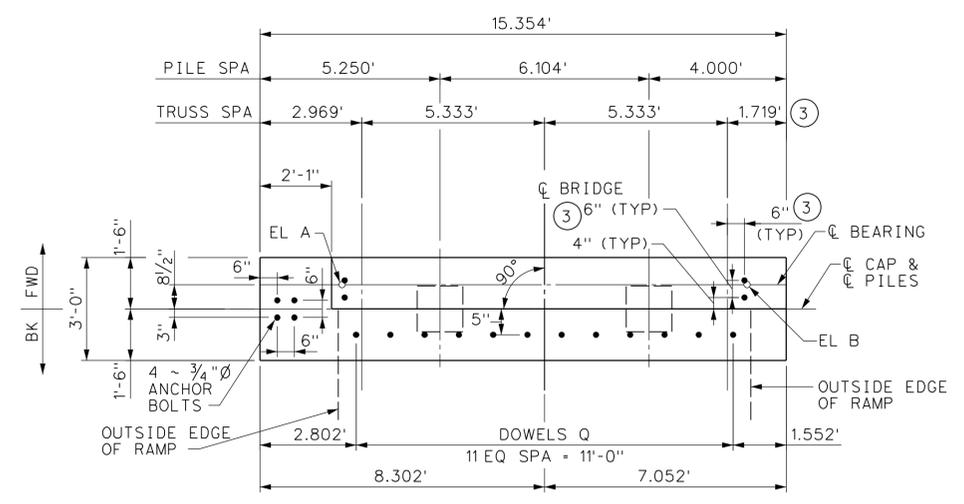
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TBPE REG. NO. F-3580

Unit	PUBLIC WORKS	Scale:	NTS	Date	MARCH 2015
Designed	LNH	Checked	WRB	Project No.	60313709
Drawn	JS	Approved	LNH	Sheet	21 of 28

CONTROL ELEVATIONS	
EL A	EL B
7.37'	7.37'

REINFORCING TABLE ②			
BAR	No	SIZE	LENGTH
A1	4	#8	14'-10"
A2	3	#5	14'-10"
A3	2	#5	1'-11"
B	4	#8	14'-10"
F2	15	#4	7'-4"
F3	4	#4	8'-10"
Q	12	#4	1'-1"
S	20	#4	9'-10"
T	6	#5	14'-10"



GENERAL NOTES:
 DESIGNED IN ACCORDANCE WITH AASHTO LRFD SPECIFICATIONS FOR DESIGN OF PEDESTRIAN BRIDGES.
 CONCRETE STRENGTH $f'c = 3,600$ psi.
 ALL CAP REINFORCING SHALL BE GRADE 60.
 PROVIDE EPOXY COATED REINFORCING.
 DESIGN LOADS:
 PEDESTRIAN LL = 90 psf
 FOUNDATIONS LOADS = 27 TONS/PILE

- ① CONTRACTOR TO VERIFY WITH MANUFACTURER AND ADJUST AS NECESSARY.
- ② QUANTITIES ARE FOR ONE BENT ONLY.
- ③ ELEVATIONS ARE BASED UPON A STRUCTURAL DEPTH = 1'-7 1/2"



Wally R. Burns 4/28/2015

NO.	DATE	REVISION	APPROV.
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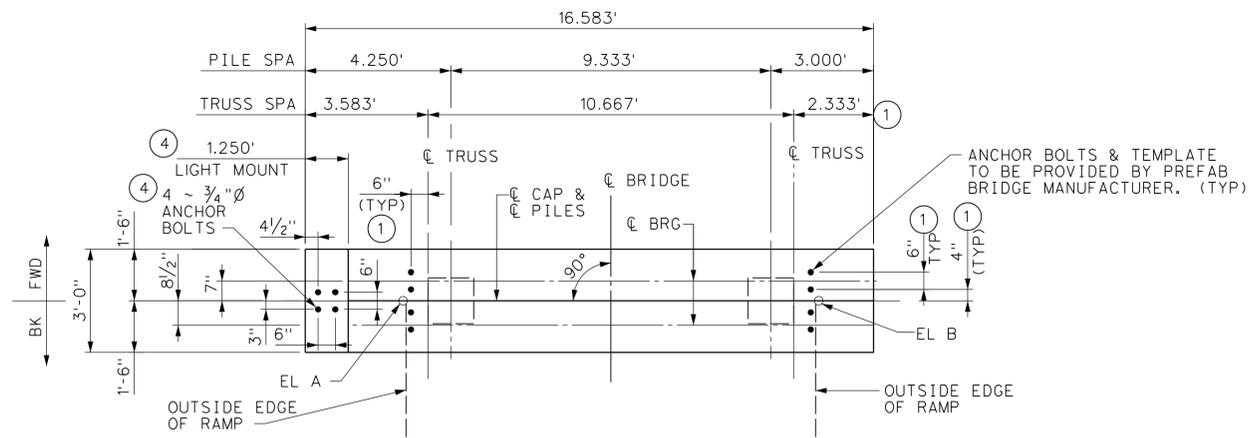
GALVESTON COUNTY
 61ST STREET PEDESTRIAN BRIDGE
 61ST STREET PEDESTRIAN BRIDGE
 BENTS 2 & 6 ALTERNATE

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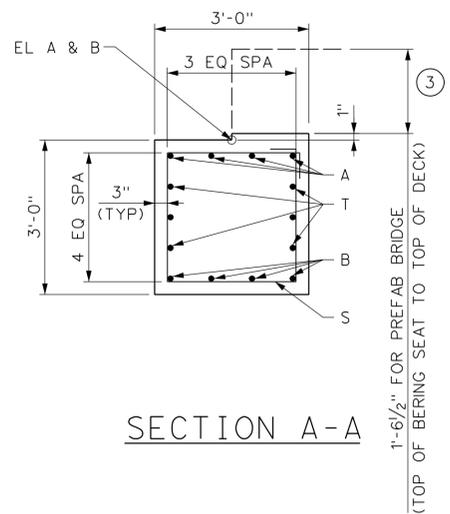
Unit	PUBLIC WORKS	Scale:	NTS	Date	MARCH 2015
Designed	LNH	Checked	WRB	Project No.	60313709
Drawn	JS	Approved	LNH	Sheet	22 of 28

CONTROL ELEVATIONS	
EL A	EL B
9.96'	9.96'

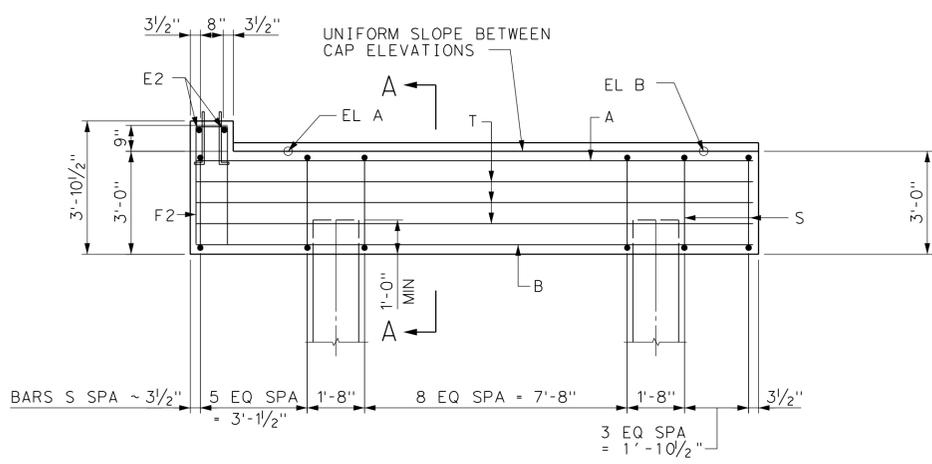
REINFORCING TABLE ②			
BAR	No	SIZE	LENGTH
A	4	#8	16'-0"
B	4	#8	16'-0"
E2	2	#4	2'-6"
F2	5	#4	6'-9"
S	19	#4	9'-10"
T	6	#5	14'-10"



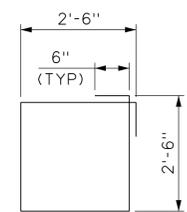
PLAN
(BENT 3 SHOWN, BENT 5 SIMILAR)



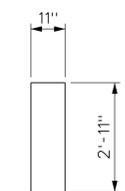
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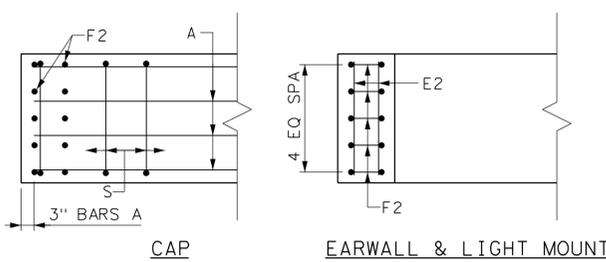
ELEVATION



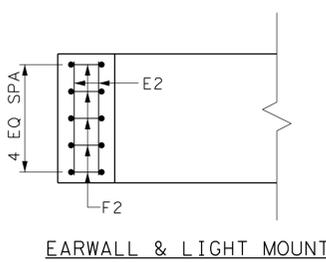
BARS S



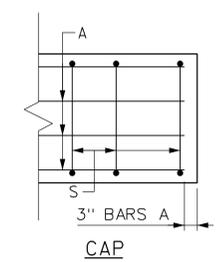
BARS F2



CAP EAST END DETAIL



EARWALL & LIGHT MOUNT



CAP WEST END DETAIL

GENERAL NOTES:
 ALL ANCHOR BOLTS, NUTS AND WASHERS (GALVANIZED) PROVIDED BY PREFAB BRIDGE MANUFACTURER.

DESIGNED IN ACCORDANCE WITH AASHTO LRFD SPECIFICATIONS FOR DESIGN OF PEDESTRIAN BRIDGES.

CONCRETE STRENGTH $f'c = 3,600$ psi.

ALL CAP REINFORCING SHALL BE GRADE 60.

PROVIDE EPOXY COATED REINFORCING.

DESIGN LOADS:
 PEDESTRIAN LL = 90 psf

DESIGN REACTIONS FROM TRUSS:
 DL = 29.75K
 LL = 21.60K

FOUNDATIONS LOADS = 44 TONS/PILE

- ① CONTRACTOR TO VERIFY WITH MANUFACTURER AND ADJUST AS NECESSARY.
- ② QUANTITIES ARE FOR ONE BENT ONLY
- ③ VERIFY WITH PREFAB BRIDGE FOR SLOPED TRUSS CONNECTION.
- ④ VERIFY BOLT SIZE AND SPACING WITH LIGHT POLE PROVIDER.
- ⑤ ELEVATIONS ARE BASED UPON A STRUCTURAL DEPTH = 1'-7 1/2" FOR THE SLOPED SPAN.



NO.	DATE	REVISION	APPROV.
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GALVESTON COUNTY
 61ST STREET PEDESTRIAN BRIDGE
 61ST STREET PEDESTRIAN BRIDGE
 BENT 3 & 5 ALTERNATE

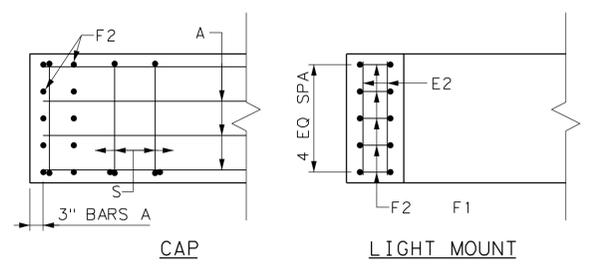
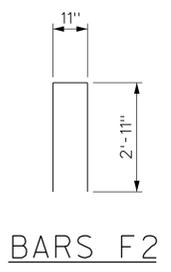
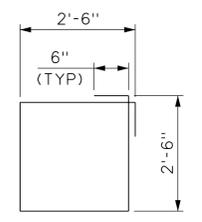
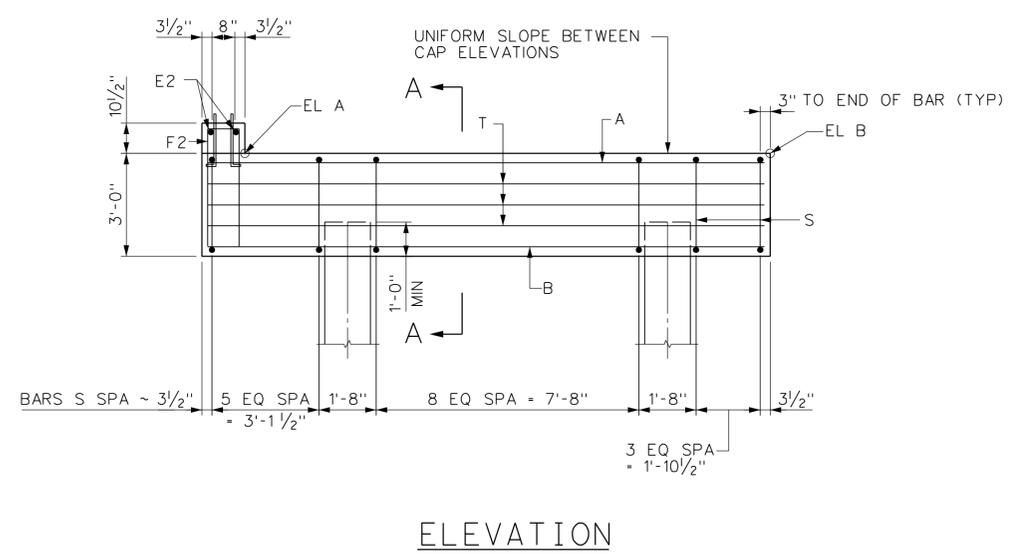
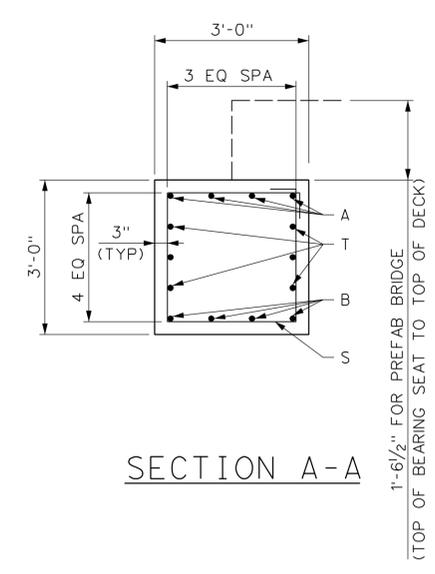
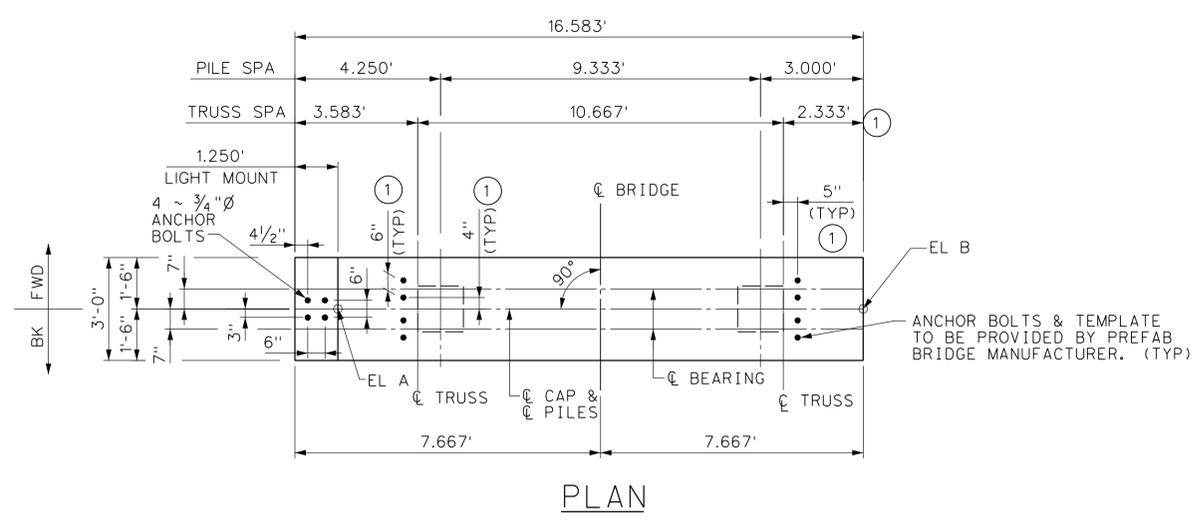


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 HOUSTON, TEXAS 77056
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Unit	PUBLIC WORKS	Scale:	NTS	Date	MARCH 2015
Designed	LNH	Checked	WRB	Project No.	60313709
Drawn	JS	Approved	LNH	Sheet	23 of 28

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4/28/2015 12:38:07 PM P:_PWD\Galveston County\60073413-61st Street Parks\Cadd\Bridge_Package\Alternate Design\ALT-Bridge - BENT 4.dgn



CONTROL ELEVATIONS	
EL A	EL B
9.96'	9.96'

REINFORCING TABLE			
BAR	No	SIZE	LENGTH
A	4	#8	15' - 0"
B	4	#8	15' - 0"
E2	2	#4	2' - 6"
F2	5	#4	6' - 9"
S	17	#4	11' - 0"
T	6	#5	15' - 0"

GENERAL NOTES:

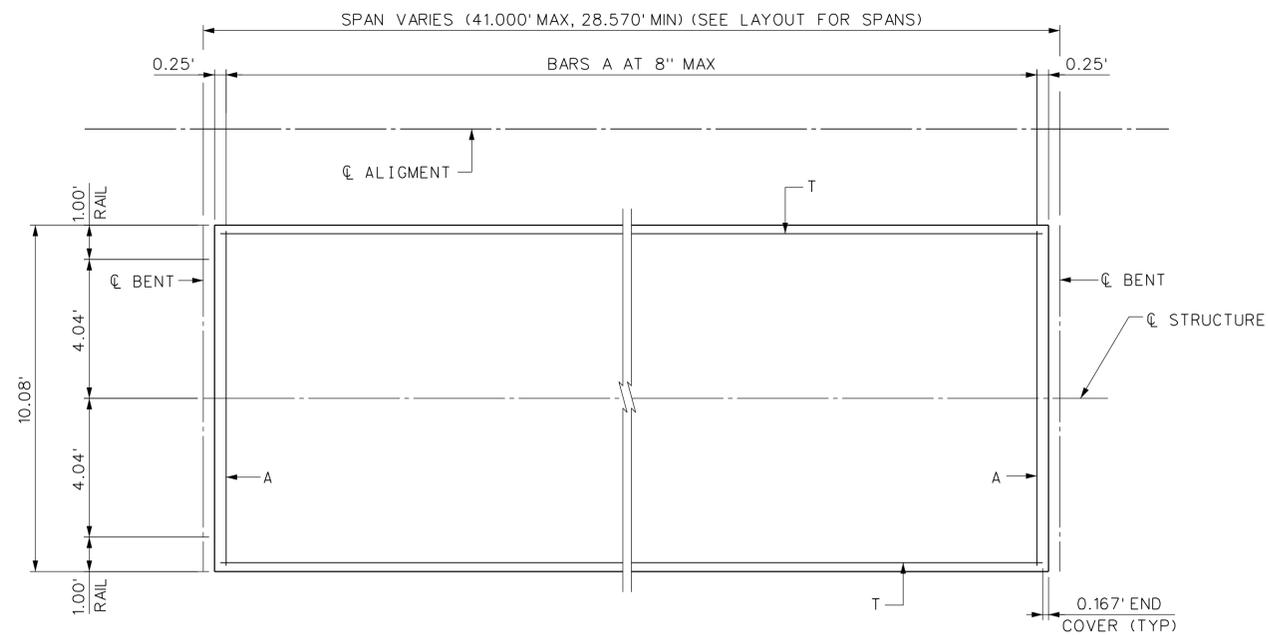
- ALL ANCHOR BOLTS, NUTS AND WASHERS PROVIDED BY PREFAB BRIDGE MANUFACTURER.
- DESIGNED IN ACCORDANCE WITH AASHTO LRFD SPECIFICATIONS FOR DESIGN OF PEDESTRIAN BRIDGES.
- CONCRETE STRENGTH $f'_c = 3,600\text{psi}$.
- ALL CAP REINFORCING SHALL BE GRADE 60.
- PROVIDE EPOXY COATED REINFORCING.
- DESIGN LOADS:
PEDESTRIAN LL = 90 psf
- DESIGN REACTIONS FROM TRUSS:
DL = 29.75K
LL = 21.60K
- FOUNDATIONS LOADS = 44 TONS/PILE

① CONTRACTOR TO VERIFY WITH MANUFACTURER AND ADJUST AS NECESSARY.



Wally R. Burns 4/28/2015

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NO.	DATE	REVISION	APPROV.
GALVESTON COUNTY 61ST STREET PEDESTRIAN BRIDGE			
61ST STREET PEDESTRIAN BRIDGE BENT 4 ALTERNATE			
		<small>AECOM TECHNICAL SERVICES, INC. 5444 WESTHEIMER RD, SUITE 200 HOUSTON, TEXAS 77056 WWW.AECOM.COM TBPE REG. NO. F-3580</small>	
Unit	PUBLIC WORKS	Scale:	NTS
Designed	LNH	Checked	WRB
Drawn	JS	Approved	LNH
Date	MARCH 2015	Project No.	60313709
Sheet	24	of	28



PLAN

NOTE:
SEE LANDING FOR SECTIONS AT BENTS.

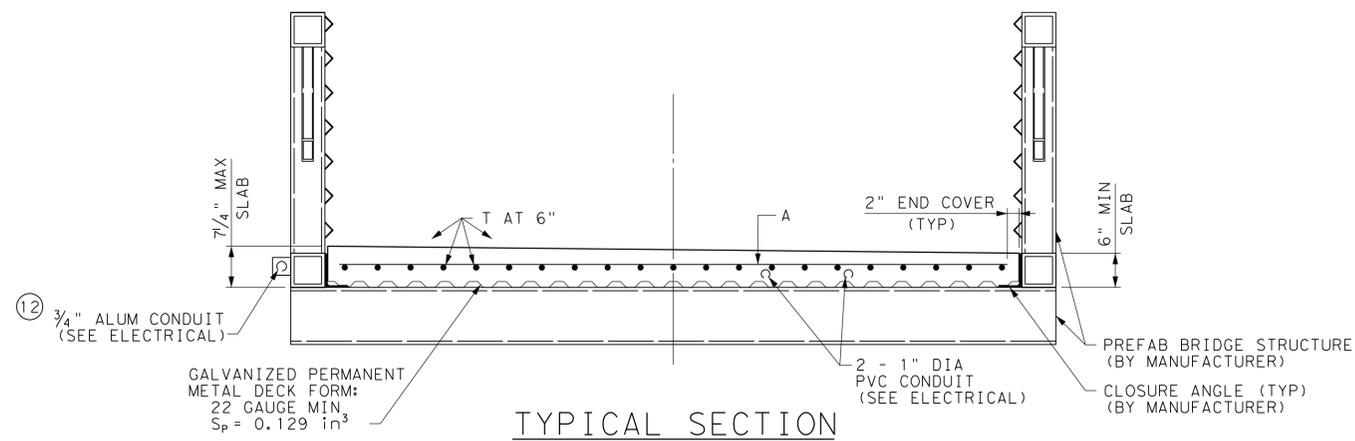
- ⑧ BACKER ROD SHALL BE 25% LARGER THAN JOINT OPENING AND SHALL BE COMPATIBLE WITH THE SEALANT; NO REACTION SHALL OCCUR BETWEEN THE ROD AND THE SEALANT.
- ⑨ SEALANT SHALL BE CLASS 7 SILICONE SEALANT. INSTALL WHEN AMBIENT TEMPERATURE IS BETWEEN 55°F AND 85°F AND RISING. ENGINEER TO DETERMINE ALLOWABLE HOURS FOR SEALANT APPLICATION.
- ⑩ SEE LAYOUT FOR EXPANSION JOINT LOCATIONS.
- ⑪ CONFIRM WITH PREFAB BRIDGE MANUFACTURER, ADJUST CONTROL ELEVATION IF NECESSARY. CONFIRM WITH PREFAB BRIDGE MANUFACTURER CONNECTION FOR SLOPE SPANS.
- ⑫ ATTACH JUNCTION BOX WITH STAINLESS STEEL SCREWS OR BOLTS TO CONCRETE. PROVIDE 1#4" NEOPRENE PAD BETWEEN ALLUMINUM CLIPS AND CONCRETE.

BAR TABLE	
Bar	Size
A	#4
T	#5

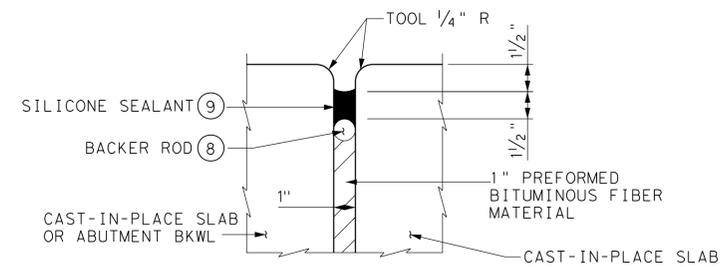
GENERAL NOTES:

DESIGNED ACCORDING TO AASHTO LRFD SPECIFICATIONS.
CONCRETE STRENGTH F'C = 4,000 PSI.

ALL SLAB REINFORCING SHALL BE GRADE 60.
BAR LAPS, WHERE REQUIRED, SHALL BE AS FOLLOWS:
EPOXY COATED ~ #4 = 2'-1"
~ #5 = 2'-7"



TYPICAL SECTION



TYPE A JOINT DETAIL

(TYP BENTS 1, 2, 6, 7 & RAMPS)



Wally R. Burns 4/28/2015

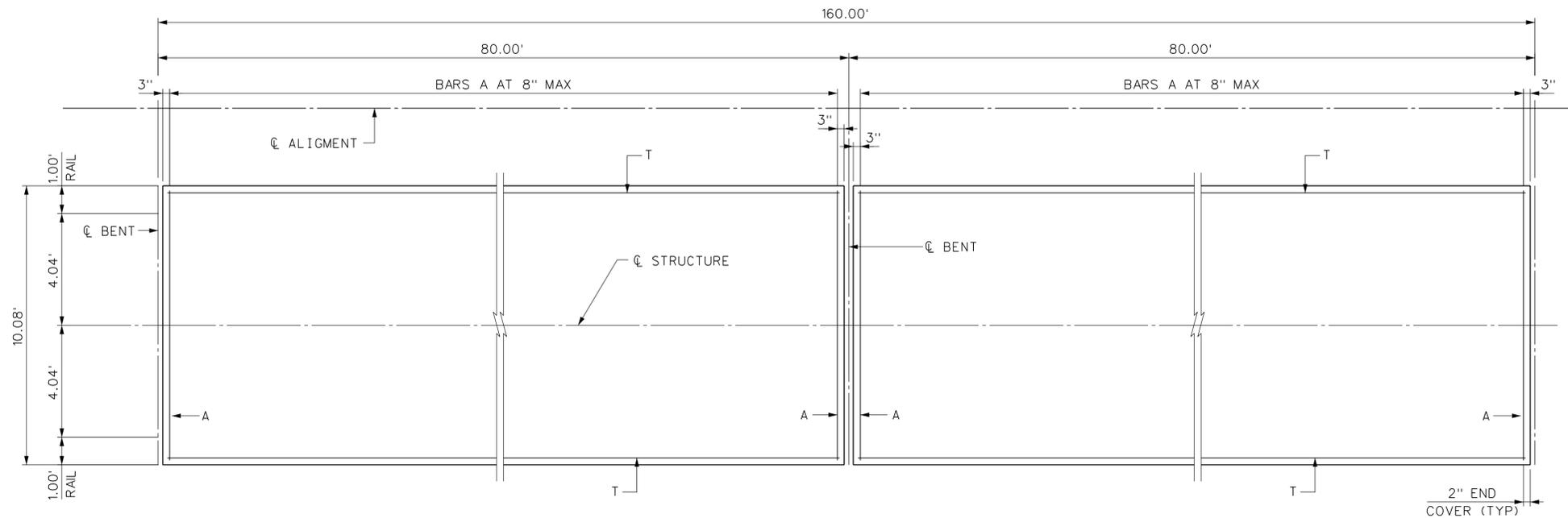
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NO.	DATE	REVISION	APPROV.

GALVESTON COUNTY
61ST STREET PEDESTRIAN BRIDGE
61st STREET PEDESTRIAN BRIDGE
APPROACH SPANS DETAILS ALTERNATE



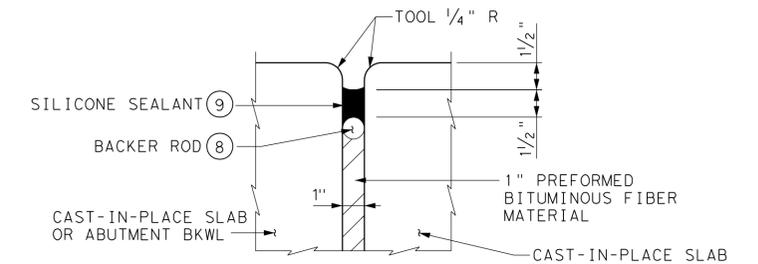
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Unit	PUBLIC WORKS	Scale:	NTS	Date	MARCH 2015
Designed	LNH	Checked	WRB	Project No.	60313709
Drawn	JS	Approved	LNH	Sheet	25 of 28

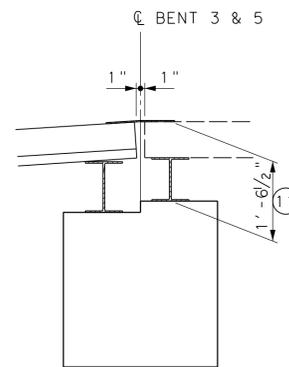


PLAN

- ⑧ BACKER ROD SHALL BE 25% LARGER THAN JOINT OPENING AND SHALL BE COMPATIBLE WITH THE SEALANT; NO REACTION SHALL OCCUR BETWEEN THE ROD AND THE SEALANT.
- ⑨ SEALANT SHALL BE CLASS 7 SILICONE SEALANT. INSTALL WHEN AMBIENT TEMPERATURE IS BETWEEN 55°F AND 85°F AND RISING. ENGINEER TO DETERMINE ALLOWABLE HOURS FOR SEALANT APPLICATION.
- ⑩ SEE LAYOUT FOR EXPANSION JOINT LOCATIONS.
- ⑪ CONFIRM WITH PREFAB BRIDGE MANUFACTURER, ADJUST CONTROL ELEVATION IF NECESSARY.
- ⑫ ATTACH JUNCTION BOX WITH STAINLESS STEEL SCREWS OR BOLTS TO CONCRETE. PROVIDE 1/4" NEOPRENE PAD BETWEEN ALLUMINUM CLIPS AND CONCRETE.

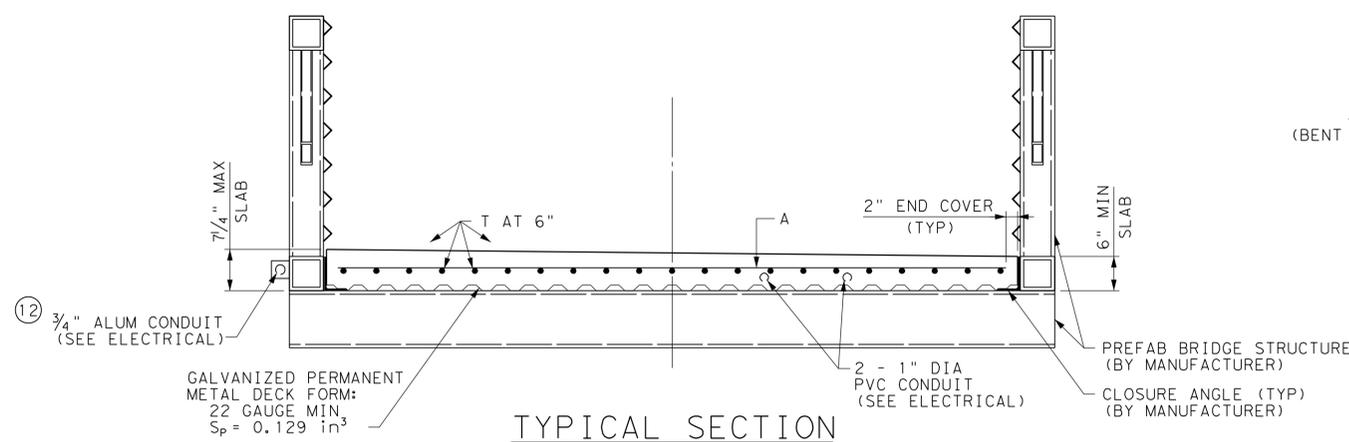


TYPE A JOINT DETAIL
(TYP BENT 4)



BENT 3 & 5
(BENT 3 SHOWN, BENT 5 SIMILAR)

BAR TABLE	
Bar	Size
A	#4
T	#5



TYPICAL SECTION

GENERAL NOTES:

DESIGNED ACCORDING TO AASHTO LRFD SPECIFICATIONS.
CONCRETE STRENGTH F'C = 4,000 PSI.

ALL SLAB REINFORCING SHALL BE GRADE 60.
BAR LAPS, WHERE REQUIRED, SHALL BE AS FOLLOWS:
EPOXY COATED ~ #4 = 2'-1"
~ #5 = 2'-7"



Wally R. Burns 4/28/2015

NO.	DATE	REVISION	APPROV.
4			
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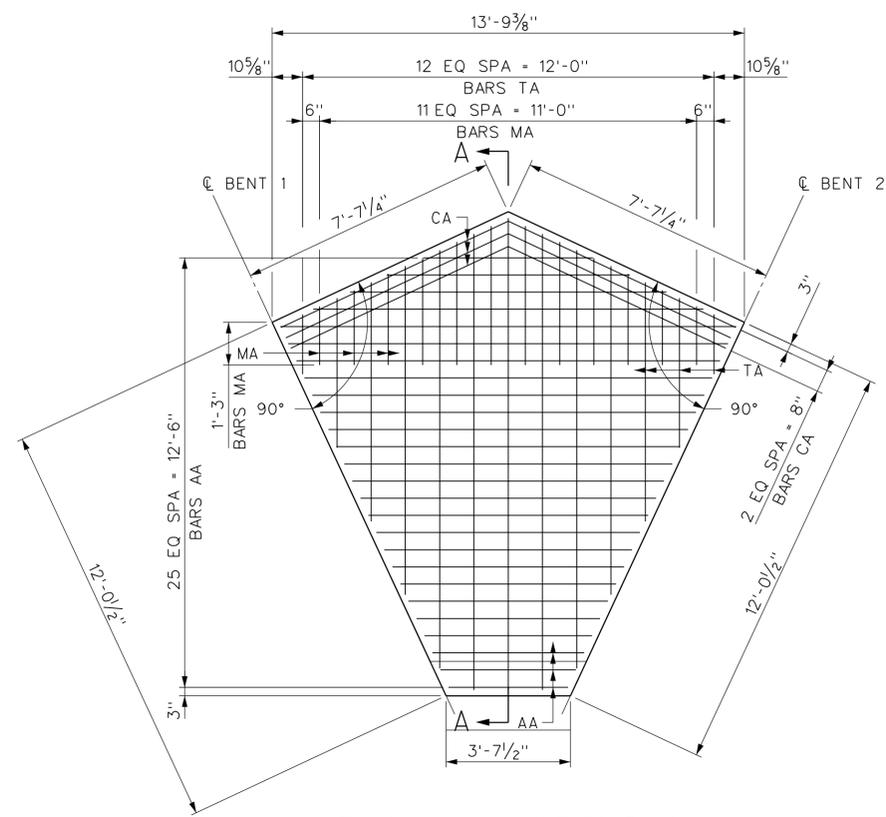
GALVESTON COUNTY
61ST STREET PEDESTRIAN BRIDGE
61st STREET PEDESTRIAN BRIDGE
PREFAB BRIDGE SPANS 4 & 5 ALTERNATE



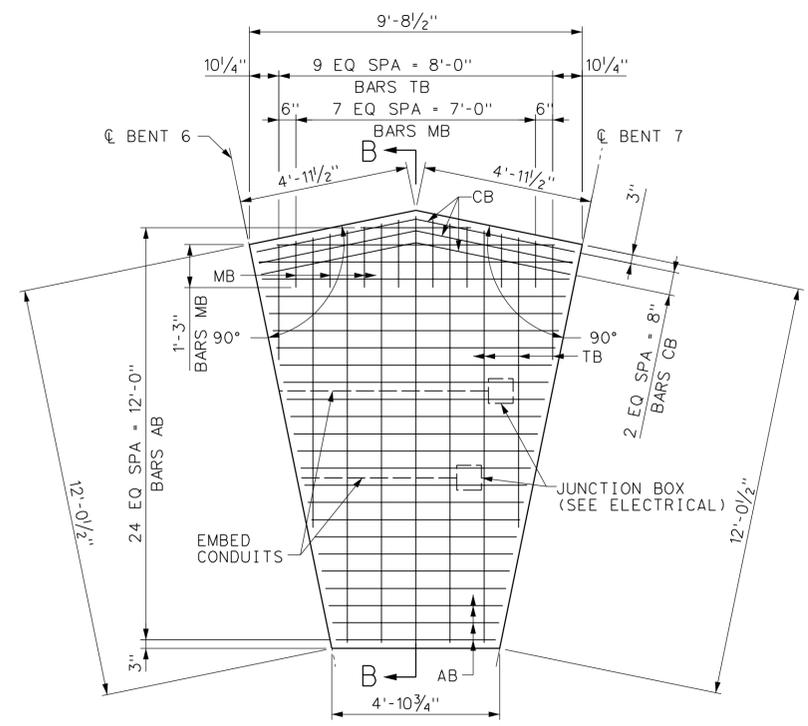
AECOM TECHNICAL SERVICES, INC.
5444 WESTHEIMER RD, SUITE 200
HOUSTON, TEXAS 77056
WWW.AECOM.COM
TBPE REG. NO. F-3580

Unit	PUBLIC WORKS	Scale:	NTS	Date	MARCH 2015
Designed	LNH	Checked	WRB	Project No.	60313709
Drawn	JS	Approved	LNH	Sheet	26 of 28

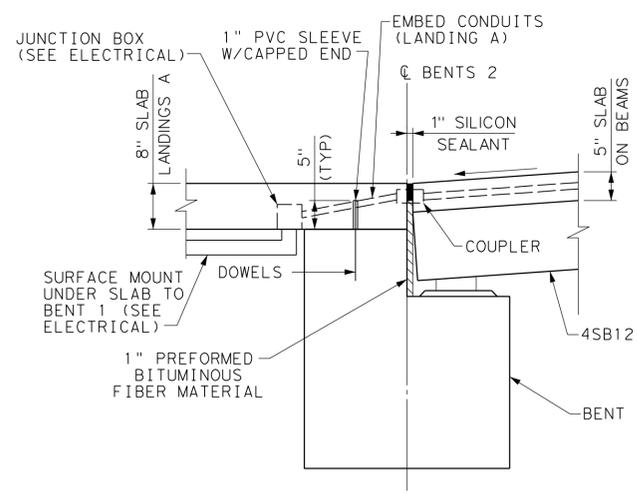
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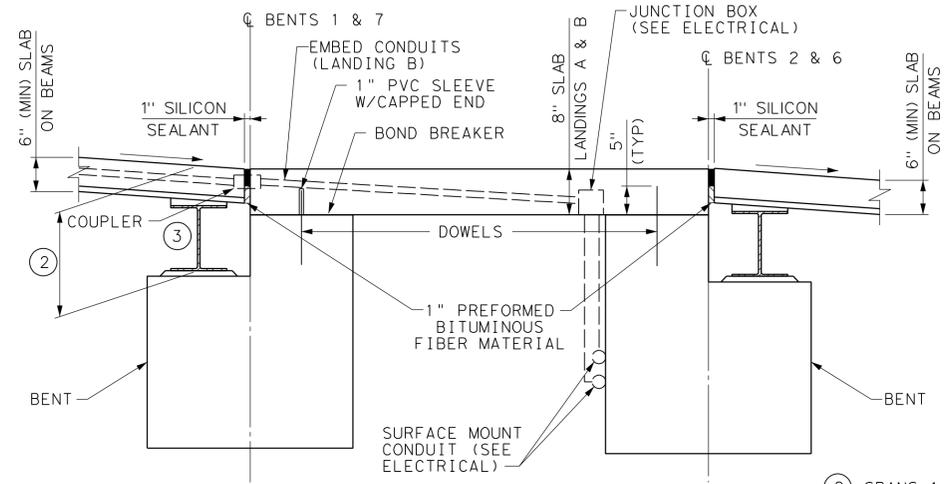
PLAN - LANDING A



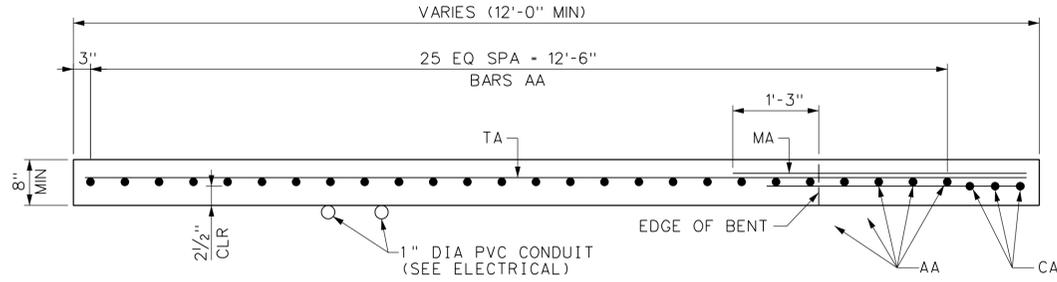
PLAN - LANDING B



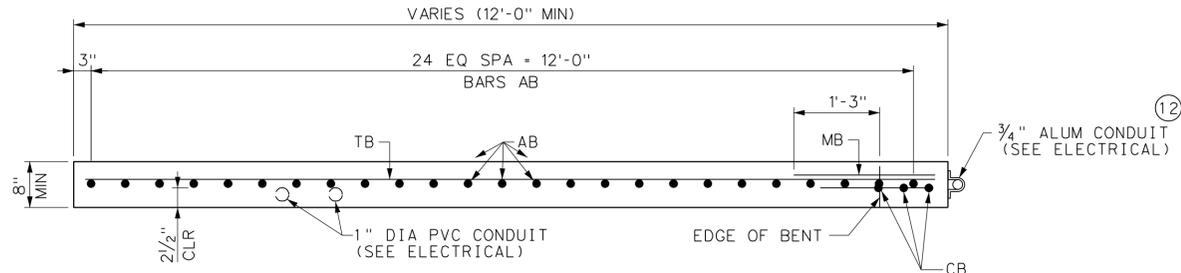
ELECTRICAL CONDUIT LANDING A CONNECTION
 (SLAB AND BENT REINFORCING NOT SHOWN FOR CLARITY)



GENERAL LANDING CONNECTION
 (SLAB AND BENT REINFORCING NOT SHOWN FOR CLARITY)
 (LANDING B CONDUIT SHOWN)



SECTION A-A



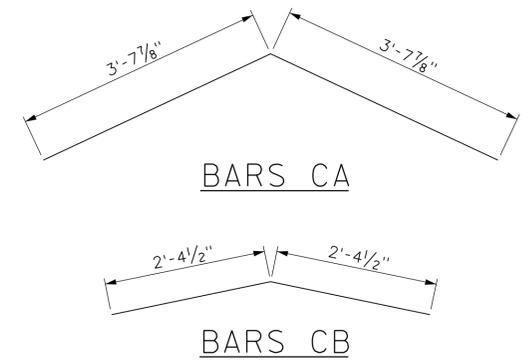
SECTION B-B

BAR	SIZE
A	#5
C	#5
M	#4
T	#4

TABLE OF ESTIMATED QUANTITIES			
LANDING	REINF CONC SLAB	CLASS "C" CONC	REINF STEEL ¹
A	117	2.8	363
B	91	2.2	283

¹ CALCULATED USING 3.1 LB/SF

GENERAL NOTES:
 DESIGNED ACCORDING TO AASHTO LRFD SPECIFICATIONS.
 CONCRETE STRENGTH F'C = 4,000 PSI.
 ALL SLAB REINFORCING SHALL BE GRADE 60.
 REINFORCING SHALL BE EPOXY COATED.



² SPANS 1, 2 & 6 = 1'-7 1/2"
³ CONFIRM WITH PREFAB BRIDGE MANUFACTURER, ADJUST CONTROL ELEVATIONS IF NECESSARY



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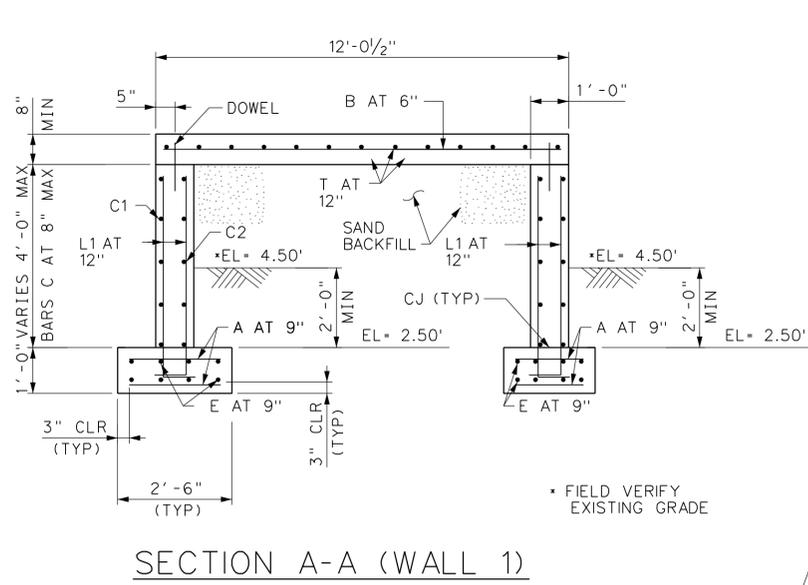
GALVESTON COUNTY
61ST STREET PEDESTRIAN BRIDGE
61ST STREET PEDESTRIAN BRIDGE
LANDINGS A & B ALTERNATE

AECOM

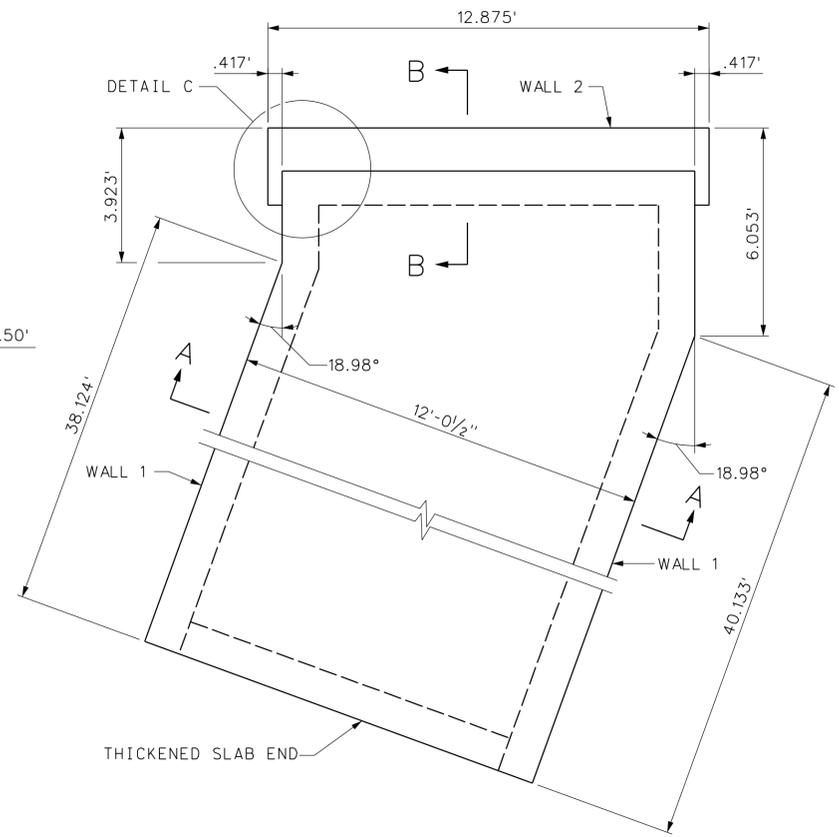
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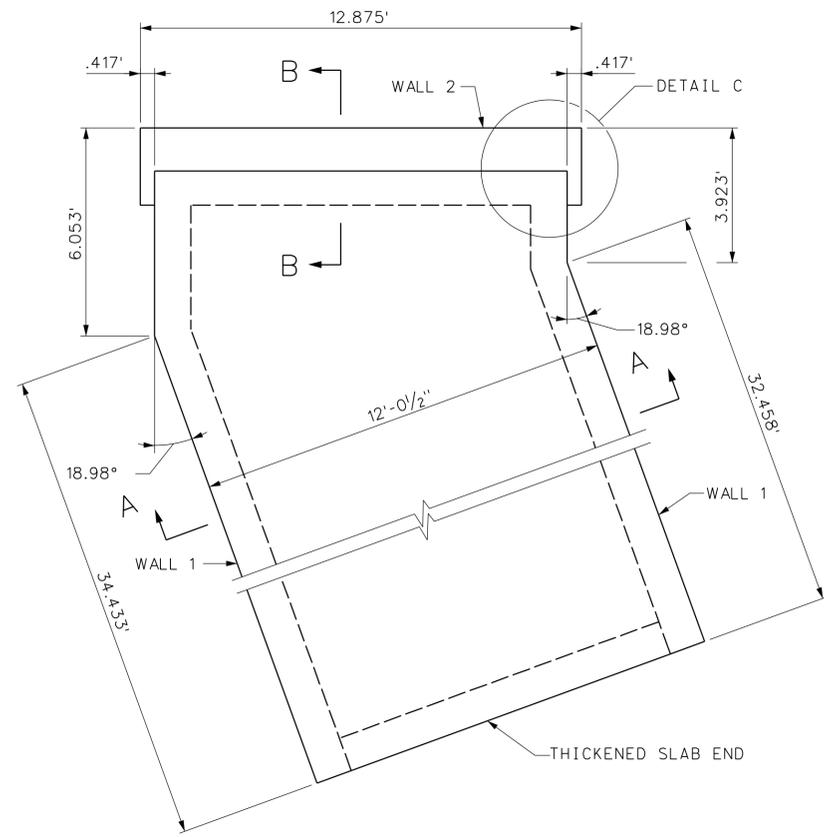
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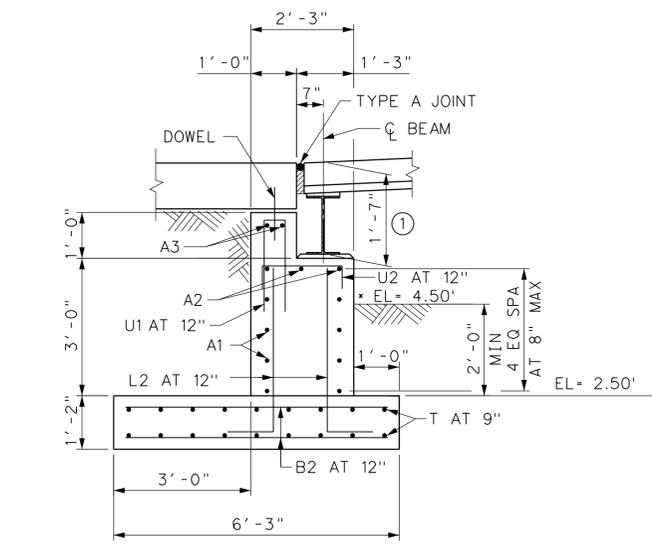
SECTION A-A (WALL 1)



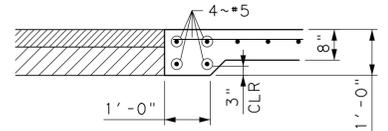
PLAN (SPAN 1)



PLAN (SPAN 8)

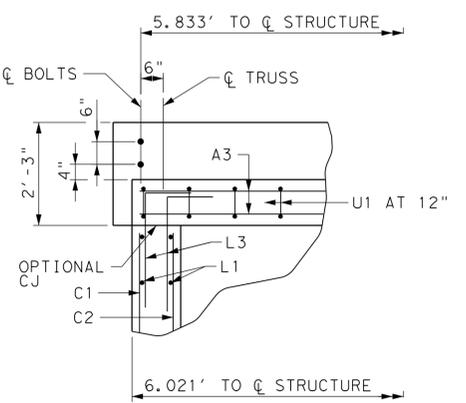


SECTION B-B (WALL 2)



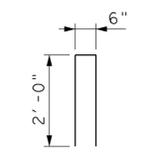
THICKENED END DETAIL

- ① CONTRACTOR TO VERIFY WITH MANUFACTURER AND ADJUST AS NECESSARY.
- ③ CONFIRM WITH PREFAB BRIDGE MANUFACTURER, ADJUST CONTROL ELEVATIONS IF NECESSARY.

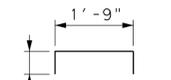


DETAIL C

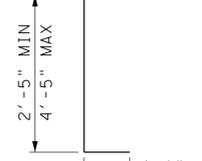
① BARS L3 TO MATCH C1 & C2



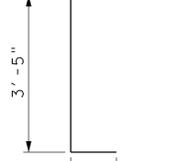
BARS U1



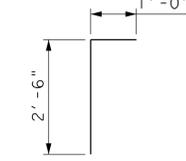
BARS U2



BARS L1



BARS L2



BARS L3

BAR TABLE	
BAR	SIZE
A	#4
A1	#6
A2	#6
A3	#5
B1	#5
B2	#4
C1	#4
C2	#4
DOWEL	#4
E	#4
L	#4
L1	#3
L2	#3
T	#4
U1	#4
U2	#4

GENERAL NOTES:

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 BAR LAPS, WHERE REQUIRED SHALL BE AS FOLLOWS:
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**GALVESTON COUNTY
 61ST STREET PEDESTRIAN BRIDGE**

**61ST STREET PEDESTRIAN BRIDGE
 RAMP DETAILS ALTERNATE**

AECOM

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