AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT

1. CONTRACT ID CODE	PAGE	OF	PAGES
	1		7

2. AMENDMENT/MODIFICAITON NO.	3. EFFECTIVE DATE	4. REQUISITION/PURCHASE REQ. NO.	5. PROJECT NO. (If applicble)
0001	08/26/02		

6. ISSUED BY	CODE	7. ADMINISTERED BY (If other than Item 6)	CODE
U. S. ARMY CORPS OF ENGINEERS GALVESTON DISTRICT OFFICE P. O. BOX 1229 GALVESTON, TEXAS 77553-1229	EC	U. S. ARMY CORPS OF ENGINEERS GALVESTON DISTRICT OFFICE P. O. BOX 1229 GALVESTON, TEXAS 77553-1229	CT

8. NAME AND ADDRESS OF CONTRACTOR (No., street, county, State and ZIP Code)	(X)	9A. AMENDMENT OF SOLICIATION NO.
	✘	DACW64-02-B-0032
		9B. DATED (SEE ITEM 11) 08/02/02
		10A. MODIFICATION OF CONTRACT/ORDER NO.
		10B. DATED (SEE ITEM 11)

CODE	FACILITY CODE

11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS

☒ The above numbered solicitation is amended as set forth in Item 14. The hour and date specified for receipt of Offers ☐ is extended, ☒ is not extended.

Offers must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation or as amended, by one of the following methods:

(a)By completing items 8 and 15, and returning 1 copies of the amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or (c) By separate letter or telegram which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKNOWLEDGMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If by virtue of this amendment your desire to change an offer already submitted, such change may be made by telegram or letter, provided each telegram or letter makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.

12. ACCOUNTING AND APPROPIRATION DATA (If required)

13. THIS ITEM ONLY APPLIES TO MODIFICATION OF CONTRACTS/ORDERS. IT MODIFIES THE CONTRACT/ORDER NO. AS DESCRIBED IN ITEM 14.

CHECK ONE	
	A. THIS CHANGE ORDER IS ISSUED PURSUANT TO: (Specify authority) THE CHANGES SET FORTH IN ITEM 14 ARE MADE IN THE CONTRACT ORDER NO. IN ITEM 10A.
	B. THE ABOVE NUMBERED CONTRACT/ORDER IS MODIFIED TO REFLECT THE ADMINISTRATIVE CHANGES (such as changes in paying office, appropriation date, etc.) SET FORTH IN ITEM 14, PURSUANT TO THE AUTHORITY OF FAR 43.103(b).
	C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF:
	D. OTHER (Specify type of modification and authority)

E. IMPORTANT: Contractor ☐ is not, ☐ is required to sign this document and return ——— copies to the issuing office.

14. DESCRIPTION OF AMENDMENT/MODIFICATION (Organized by UCF section headings, including solicitation/contract subject matter where feasible.)

Trinity River and Tributaries, Texas, Wallisville Lake, Non-Overflow Dam, Public Facilities

(See Attached)

Except as provided herein, all terms and conditions of the document referenced in Item 9A or 10A, as heretofore changed, remains unchanged and in full force and effect.

15A. NAME AND TITLE OF SIGNER (Type or print)		16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print)	
15B. CONTRACTOR/OFFEROR (Signature of person authorized to sign)	15C. DATE SIGNED	16B. UNITED STATES OF AMERICA (Signature of Contracting Officer)	16C. DATE SIGNED

1. The specifications and drawings for Invitation No. DACW64-02-B-0032, Public Facilities, Non-Overflow Dam, Wallisville Lake, Trinity River and Tributaries, Texas, advertised 2 August 2002, and for which bids are to be opened on 4 September 2002, are hereby modified as follows:

(a) Specifications.

(1) BIDDING SCHEDULE, Pages 00010-1 Through 00010-4. - The enclosed Bidding Schedule, Pages 00010-1 through 00010-3 supersedes that issued with this Invitation

(2) Page 00800-1, Paragraph 1(c). - In the index of drawings, change the number of drawings from “35 sheets” to “36 sheets."

(3) Page 00800-2, Paragraph 2(a). - In the third line, after the words “amount of,” insert"$2,202.00.”

(4) Page 00800-4, Paragraph 7(b). - In the first line, after the words “sum of,” insert"$50,000.”

(5) SECTION 01330. - The enclosed “ENGINEER FORMS 4025 and 4288 shall be added to this Section and shall become part of this Invitation.

(6) Page 02229-1, Subparagraph 3.1.1. - In the second line, delete "breast? (whose?)" and substitute "5 feet above ground surface."

(7) Page 02319-3, Subparagraph 3.2.1. - In the seventh line, after the words "Placement Area," insert the following: "The cement-stabilized flexible base material on the existing roadway along the levee, and within the designated lengths for borrow or for excavation, shall be considered unsatisfactory material."

(8) SECTION 02329, EMBANKMENT CONSTRUCTION. - The enclosed SECTION 02329 entitled EMBANKMENT CONSTRUCTION supersedes that issued with this Invitation.

(9) Page 02378-2, Paragraph 1.5. - Delete this Paragraph and substitute the following therefor:

"**1.5 MEASUREMENT.** Geotextile shall be measured by the square yard, made on the job basis for satisfactorily completed work."

(10) Page 02378-2, Paragraph 1.6. - Delete this Paragraph and substitute the following therefor:

"**1.6 PAYMENT** for geotextile will be made at the contract unit price per square yard for "Geotextile (Type 1)” and “Geotextile (Type 2)," which shall include the cost of labor, equipment, material, and incidentals necessary for placement of the materials as specified."

(11) Page 02378-4, Paragraph 3.1. - Delete this Paragraph and substitute the following therefor:

"**3.1 INSTALLATION OF THE GEOTEXTILE.** The geotextile shall be placed as specified and at the locations shown. At the time of installation, the geotextile shall be rejected if it has defects, rips, holes, flaws, deterioration, or damage incurred during manufacture, transportation or storage. The geotextile shall be placed with the long dimension perpendicular to the centerline of the top of slope and laid smooth and free of tension, stress, folds, wrinkles, or creases. The strips shall be placed to provide a minimum width of 18 inches of overlap for each joint. Temporary pinning of the textile to hold it in place until the riprap is placed shall be allowed. The temporary pins shall be removed as the riprap is placed to relieve high tensile stress that may occur during placement of material on the geotextile. Holes for the ends of the culverts shall be cut in the geotextile. The holes shall be of sufficient size to allow between 6 inches and 12 inches of overlap of the geotextile along the sides of the culverts. Damage to the geotextile during its installation or during placement of the riprap shall be replaced by the Contractor at no cost to the Government. The work shall be scheduled so that the covering of the geotextile with a layer of the specified material is accomplished within 3 calendar days after placement of the geotextile. Failure to comply shall require replacement of geotextile. The geotextile shall be protected from damage prior to and during the placement of the riprap. Before placement of the riprap, the Contractor shall demonstrate that the placement technique will prevent damage to the geotextile. No equipment shall be allowed on the unprotected geotextile."

(12) Page 02381-2, Paragraph 1.6. - In the second line, change "Riprap (10-140 lbs)" to "Riprap (10-155 lbs)."

(13) Page 02381-4, Subparagraph 3.1.1. - Delete the gradation table and substitute the following:

"Riprap (10-155 lbs)		
Design Stone Size	Percent of Stone by Weight Lighter Than Design Stone Size	Acceptable Range of Weight of Design Stone Size (lbs)
W (100)	100	155-45
W (50)	50	45-30
W (15)	15	25-10"

(14) Page 02381-4, Paragraph 3.2(1). - Under Riprap, change "(10-140 lbs)" to "(10-155 lbs)."

(15) Page 02487-3, Paragraph 1.6. - In the second line, delete "Walkway and Bridge" and substitute "Bridges."

(16) Page 02487-3, Subparagraph 2.1.7. - After this Subparagraph, add the following new Subparagraph:

"2.1.8 Concrete for Bridge abutments shall conform to the SECTION entitled CONCRETE.'

(17) Page 02723-3, Paragraph 1.7. - Delete this Paragraph and substitute the following therefor:

"**1.7 MEASUREMENT.** Flexible base shall not be measured for payment."

(18) Page 02723-3, Paragraph 1.8. - Delete this Paragraph and substitute the following therefor:

"**1.8 PAYMENT** for the flexible base will be included in the contract unit price per cubic yard for "Cement Stabilized Flexible Base."."

(19) SECTION 02825, METAL BEAM GUARD FENCE. - The enclosed new SECTION 02825 entitled METAL BEAM GUARD FENCE shall be added to and become a part of this Invitation.

(20) Page 02870-2, Subparagraph 2.1.2. - After this Subparagraph, add the following new Subparagraphs 2.1.3 and 2.1.4:

"2.1.3 Concrete for Restroom Landing and Sidewalk shall conform to the SECTION entitled CONCRETE.

"2.1.4 Utility Poles, selected for use at the 'River Parking Lot' shall be approved prior to installation."

(21) SECTION 02926, ESTABLISHMENT OF TURF. - The enclosed SECTION 02926 entitled ESTABLISHMENT OF TURF supersedes that issued with this Invitation.

(22) Page 06140-3, Paragraph 1.5. - In the second line, after the word "contract" delete "lump sum price for "Boardwalk," and substitute "unit price per square yard for "Boardwalks."

(b) Drawings.

(1) Drawing No. C-1. - In the Notes, add "NOTE 3 FOR ADDITIONAL PIPELINE INFORMATION SEE DWG NO. C-12." Also on this Drawing, in the PIPELINE TABLE, add the following to the BUCKEYE GULF CO: "DALE JOHNSON @ (936) 336-5773."

(2) Drawing No. C-3. - The enclosed "ATTACHMENT NO. 1" shall be attached to and become a part of this Drawing. In the Notes, delete "NOTE 4".and add "NOTE 8 EXPANSION JOINT MATERIAL SHALL BE PLACED AT END OF THE NEW 6' SIDEWALK WHERE IT ABUTS THE RESTROOM FLAB AND WHERE IT ABUTS THE PAVILION SLAB."

(3) Drawing No. C-4. - The enclosed "ATTACHMENT NO. 2" shall be attached to and become a part of this Drawing. Also, in the Notes, delete NOTES 2 and 4.

(4) Drawing No. C-5. - In NOTE 2, after the word "SWING," delete "OUTWARD, TOWARD LOCK" and substitute "BOTH WAYS." Add "NOTE 4 BAR GATES, STAY POSTS, AND PIPE BRACES SHALL BE HOT-DIP GALVANIZED AS SPECIFIED."

(5) Drawing No. C-6. - In the GENERAL NOTES, delete "NOTE 3," delete "NOTE 8" and substitute "NOTE 8 SEE DWG C-15 FOR ADDITIONAL DETAILS," and delete NOTE 9. Also, on the RIVER PARKING LOT PLAN, delete the NOTE "NEW WHEEL STOPS (SEE DWG C-14)" and substitute "WHEEL STOPS SHALL BE UTILITY POLSE (5" MIN/7" MAX. DIAMETER) PLACED ALONG THE 100' LONG SIDE AND ALSO PLACED ALONG BOTH 40' SIDES. 1'-6" ANCHOR BOLTS AT 6' ON CENTER SHALL BE USED TO SECURE THE POLES IN PLACE."

(6) Drawing No. C-8. - The enclosed "ATTACHMENT NO. 3" shall be attached to and become a part of this Drawing.

(7) Drawing No. C-9. - The enclosed" DRAWING NO. C-9" supersedes that issued with this Invitation.

(8) Drawing No. C-10. - The enclosed "ATTACHMENT NO. 4" shall be attached to and become a part of this Drawing. In the SIDEWALK DETAILS - EXPANSION JOINT, change the following NOTE from "PREMOLDED EXPANSION JOINT FILLER" to "PREMOLDED EXPANSION JOINT FILLER SHALL CONFORM TO ASTM D 1752, TYPE 1." Also on the SIDEWALK DETAILS, add the following GENERAL NOTES:

"1. PROVIDE TRANSVERSE CONTRACTION JOINTS AT INTERVALS NOT EXCEEDING 5'-0" ON CENTER.

"2. PROVIDE EXPANSION JOINTS AT INTERVALS NOT EXCEEDING 40'-0" ON CENTER."

(9) Drawing No. C-11. - The enclosed "DRAWING NO. C-11" supersedes that issued with this Invitation.

(10) Drawing No. C-12. - The enclosed "ATTACHMENT NO. 5" shall be attached to and become a part of this Drawing. In NOTE 1, after the word "LOCATIONS" add "AND DEPTHS." On the PIPELINE TABLE, add "DALE JOHNSON @ (936) 336-5773, ext 18" to BUCKEYE GULF CO. Also, add the following new NOTE 8

"NOTE 8 EQUIPMENT AND MATERIALS WITHIN PIPELINE CORRIDOR SHALL ONLY BE WITHIN THE PIPELINE CORRIDOR FOR THE DURATION NEEDED TO COMPLETE CONSTRUCTION. CONCRETE MATTING SHALL BE USED TO SUPPORT CONSTRUCTION EQUIPMENT WHEN WORKING WITHIN THE PIPELINE CORRIDOR. RELEVENT PIPELINE COMPANIES SHALL BE CONTACTED BY REGISTERED LETTER AT LEAST 72 HOURS PRIOR TO WORK IN THE AREA OF THEIR RESPECTIVE PIPELINES. THIS SHALL INCLUDE LAYING AND REMOVING MATTING. THE LETTER SHALL DETAIL EQUIPMENT WEIGHT, TRACK/WHEEL DIMENSIONS, AND ANTICIPATED WEIGHT OF MATERIALS TO BE HANDLED. THE CONTRACTOR SHALL ALSO DETAIL THE STARING DATE AND TIME OF THE ANTICIPATED TASK. NO EXPLOSIVES OR CEMENT-STABILIZED SOIL SHALL BE USED WITHIN THE CORRIDOR AND PIPELINE COVER WILL NOT BE DISTURBED. NO MATERIAL OR EQUIPMENT SHALL BE STORED WITHIN THE PIPELINE EASEMENT. IF DIRECTED TO CEASE CONSTRUCTION BY A PIPELINE CONTACT, THE CONTRACTOR OR ITS REPRESENTATIVE SHALL COMPLY IMMEDIATELY AND NOTIFY THE CONTRACTING OFFICER."

(11) Drawing No. 13. - The enclosed "DRAWING NO. 13" supersedes that issued with this Invitation.

(12) Drawing No. 14. - Delete the "WHEEL STOP PLAN."

(13) Drawing No. C-15. - In the GENERAL NOTES, delete "NOTE 3." Also, in the DETAIL, delete the "SPLICE AND ANCHOR POSTS."

(14) Drawing No. C-16. - The enclosed new "DRAWING NO. C-16 METAL BEAM GUARD FENCE" shall be attached to and become part of this Invitation.

(15) Drawing No. F-3A. - Add the following note for the top of the existing levee: "NOTE: REMOVE MATERIAL FROM EXISTING LEVEE AS BORROW FOR RAISING ACCESS ROAD. REMOVE MATERIAL TO ELEVATION +7.0 AS REQUIRED." Delete the second sentence and substitute "REMOVE MATERIAL AS REQUIRED."

(16) Drawing No. F-3B. - The enclosed "ATTACHMENT NO. 6" shall be attached to and become a part of this Drawing. Also, on the PLAN, add the following new Note: "NOTE: THE RIPRAP SLOPE PROTECTION AT THE CULVERTS SHALL EXTEND 5 FEET BEYOND THE CENTERLINE OF THE END CULVERTS, FOR A TOTAL LENGTH OF RIPRAP OF 75 FEET ALONG EACH SLOPE OF THE ACCESS ROAD."

(17) Drawing No. F-4. - The enclosed new "DRAWING NO. F-4" supersedes that issued with this Invitation.

(18) Drawing No. F-6. - The enclosed new "DRAWING NO. F-6" supersedes that issued with this Invitation.

(19) Drawing No. F-7. - Add the following NOTE to the TYPICAL SECTION: "NOTE: BORROW FOR COMPACTED FILL WILL BE EXCAVATION OF TH EXISTING LEVEE FROM APPROXIMATELY STATION 20+30 TO APPROXIMATELY STATION 43+00." Also, in the PLAN DETAILS, delete the portion of the NOTE "SEE DETAILS DRAWING F-12" and substitute "SEE PLAN DETAILS DRAWING F-8."

(20) Drawing No. S-1. - The enclosed "DRAWING NO. S-1" supersedes that issued with this Invitation.

(21) Drawing No. S-4. - In the Notes, add "NOTE 10 CONTRACTOR SHALL PLACE A TRASH RECEPTICAL AT ENTRANCE TO BOARDWALK, LOCATION WILL BE APPROVED IN THE FIELD PRIOR TO PLACEMENT."

2. This Amendment shall be attached to and become a part of the specifications.

7 Encls:
1. Bd Sched, Pgs 00010-1-00010-3
2. ENG FORMS 4025 and 4288
3. SECTION 02329
4. SECTION 02825
5. SECTION 02926
6. ATTACHMENTS NOS. 1 THRU 6
7. Dwgs Nos. C-9, C-11, C-13, C-16, F-4, F-6, & S-1

File 7862S **INVITATION NO. DACW64-02-B-0032**

TRINITY RIVER AND TRIBUTARIES, TEXAS, WALLISVILLE LAKE, NON-OVERFLOW DAM, PUBLIC FACILITIES

BIDDING SCHEDULE
(TO BE ATTACHED TO STANDARD FORM 1442)

Item No.	Description	Estimated Quantity	Unit	Unit Price	Estimated Amount
	SCHEDULE NO. 1				
0001	Environment Protection	1	L.S.	$_____	$_____
0002	Demolition	1	L.S.	$_____	$_____
0003	Stripping	3	AC.	$_____	$_____
0004	Compacted Fill	15,300	C.Y.	$_____	$_____
0005	Topsoil	1,270	C.Y.	$_____	$_____
0006	Geotextile (Type 1)	260	C.Y.	$_____	$_____
0007	Geotextile (Type 2)	8,100	S.Y.	$_____	$_____
0008	Riprap (10-155 lbs)	180	TON	$_____	$_____
0009	Bridges	1	L.S.	$_____	$_____
0010	Culverts	14	EACH	$_____	$_____
0011	Cement Stabilized Flexible Base	2,330	C.Y.	$_____	$_____
0012	Lime Stabilized Subgrade	9,920	S.Y.	$_____	$_____
0013	Lime	360	TON	$_____	$_____

(To Accompany Amendment No. 0001 to Invitation No. DACW64-02-B-0032)

BIDDING SCHEDULE (CONT'D)
(TO BE ATTACHED TO STANDARD FORM 1442)

Item No.	Description	Estimated Quantity	Unit	Unit Price	Estimated Amount
	SCHEDULE NO. 1 (CONT'D)				
0014	Bituminous Prime Coat	169	GAL	$_____	$_____
0015	Asphaltic Concrete	45	TONS	$_____	$_____
0016	Pavement Markings and Wheel Stops	1	L.S.	$_____	$_____
0017	Wire Cable Fence	300	L.F.	$_____	$_____
0018	Double Bar Gate	1	L.S.	$_____	$_____
0019	Site Furnishings	1	L.S.	$_____	$_____
0020	Boardwalks	3,582	S.F.	$_____	$_____
0021	Metal Beam Guard Fence	180	L.F.	$_____	$_____
	TOTAL SCHEDULE NO. 1				$_____

BIDDING SCHEDULE (CONT'D)
(TO BE ATTACHED TO STANDARD FORM 1442)

1. ARITHMETIC DISCREPANCIES (JAN 1997)(EFARS 52.214-5000).

(a) For the purpose of initial evaluation of bids, the following will be utilized in resolving arithmetic discrepancies found on the face of bidding schedule as submitted by the bidder:

(1) Obviously misplaced decimal points will be corrected;

(2) Discrepancy between unit price and extended price, the unit price will govern;

(3) Apparent errors in extension of unit prices will be corrected;

(4) Apparent errors in addition of lump-sum and extended prices will be corrected.

(b) For the purpose of bid evaluation, the Government will proceed on the assumption that the bidder intends his bid to be evaluated on the basis of the unit prices, the totals arrived at by resolution of arithmetic discrepancies as provided above and the bid will be so reflected on the abstract of bids.

(C) These correction procedures shall not be used to resolve any ambiguity concerning which bid is low.

2. MODIFICATIONS (CESWG). If a modification to a bid based on unit prices is submitted, which provides for a lump sum adjustment to the total estimated cost, the application of the lump sum adjustment of each unit price in the bid schedule must be stated. If it is not stated, the bidder agrees that the lump sum adjustment shall be applied on a pro rata basis to every unit price in the bid schedule.

3. SMALL BUSINESS AND SMALL DISADVANTAGED BUSINESS SUBCONTRACTING PLAN ((FAR 52.219-9) See CONTRACT CLAUSES.) In reference to the above, the bidder/offeror shall take into consideration only those subcontracts which he/she will award when preparing the subcontracting plan required in FAR.

4. SALES TAX EXEMPTION. If you intend seeking a sales tax exemption on this contract, please contact the Comptroller of Public Accounts at 1 800-252-5555.

SUBMITTAL REGISTER
(ER 415 1-10)

CONTRACT NO.

TITLE AND LOCATION
Trinity River & Tribs, TX, Wallasville Lake, Non-Overflow Dam, Public Facilities

CONTRACTOR

SPECIFICATION SECTION

ACTIVITY NO	TRANSMITTAL NO.	ITEM NO	SPECIFICATION PARAGRAPH NUMBER	DESCRIPTION OF ITEM SUBMITTED	TYPE OF SUBMITTAL										CLASSIFICATION		REVIEWER	CONTRACTOR SCHEDULE DATES			CONTRACTOR ACTION			GOVERNMENT ACTION		REMARKS
					DATA	DRAWINGS	INSTRUCTIONS	SCHEDULES	STATEMENTS	REPORTS	CERTIFICATES	SAMPLES	RECORDS	O&M MANUALS	INFORMATION ONLY	GOVERNMENT APPROVED		SUBMIT	APPROVAL NEEDED BY	MATERIAL NEEDED BY	CODE	DATE	SUBMIT TO GOVERNMENT	CODE	DATE	
a.	b.	c.	d.	e.	f.	g.	h.	i.	j.	k.	l.	m.	n.	o.	p.	q.	r.	s.	t.	u.	v.	w.	x.	y.	z.	aa.
			02373-1.3.1	SD-13 Geotextile							X					A										
			02373-1.3.2	SD-14 Geotextile								X				A										
			02373-1.3.3	SD-18 Material Test Records									X		X											
			02381-1.3.1	SD-08 Scale Ticket					X							A										
			02381-1.3.2	SD-14 Stone								X				A										
			02381-1.3.3	SD-18 Test and Service Records									X			A										
			02453-1.2.1	SD-01 Driving Equip., Pile Cutting, Del. Stor. & Handling, Mix. Curing	X											A										
			02453-1.2.2	SD-04 Prestressed Conc Piles, Pile Placement & Tolerances		X										EC										
			02453-1.2.3	SD-13 Compliance Certificates for Materials							X					A										
			02453-1.2.4	SD-18 Proposed Driving Records & Daily Driving Records									X		X	A										
			02461-1.2.1	SD-01 Pile Driving Equipment	X											A										
			02461-1.2.2	SD-09 Preservative Treated Piles						X					X											
			02461-1.2.3	SD-13 Best Management Practices							X				X											
			02632-1.2.1	SD-06 Placing Pipe			X								X											
			02632-1.2.2	SD-13 Pipeline Testing							X					A										
			02632-1.2.3	SD-14 Pipe for Culverts & Storm Drains								X				A										
			02711-1.3.1	SD-01 Plant, Equipment, Machines & Tools	X											A										
			02711-1.3.2	SD-09 Sampling & Testing, and Field Density						X						A										
			02712-1.3.1	SD-08 Scale Ticket					X							A										
			02712-1.3.2	SD-09 Tests and Inspections						X						A										
			02723-1.4.1	SD-01 Plant, Equipment, Machines & Tools	X											A										
			02723-1.4.2	SD-09 Sampling & Testing, and Field Density						X						A										
			02723-1.4.3	SD-13 Flexible Base Course Quality							X					A										

SUBMITTAL REGISTER
(ER 415 1-10)

CONTRACT NO.

TITLE AND LOCATION
Trinity River & Tribs, TX, Wallisville Lake, Non-Overflow Dam, Public Facilities

CONTRACTOR

SPECIFICATION SECTION

ACTIVITY NO a.	TRANSMITTAL NO. b.	ITEM NO c.	SPECIFICATION PARAGRAPH NUMBER d.	DESCRIPTION OF ITEM SUBMITTED e.	TYPE OF SUBMITTAL: DATA f.	DRAWINGS g.	INSTRUCTIONS h.	SCHEDULES i.	STATEMENTS j.	REPORTS k.	CERTIFICATES l.	SAMPLES m.	RECORDS n.	O&M MANUALS o.	CLASSIFICATION: INFORMATION ONLY p.	CLASSIFICATION: GOVERNMENT APPROVED q.	REVIEWER r.	CONTRACTOR SCHEDULE DATES: SUBMIT s.	APPROVAL NEEDED BY t.	MATERIAL NEEDED BY u.	CONTRACTOR ACTION: CODE v.	CONTRACTOR ACTION: DATE w.	SUBMIT TO GOVERNMENT x.	GOVERNMENT ACTION: CODE y.	GOVERNMENT ACTION: DATE z.	REMARKS aa.
			02723-1.4.4	SD-18 Waybills and Delivery Tickets									X		X	A										
			02748-1.2.1	SD-09 Sampling & Testing and Field Quality Control						X					X	A										
			02824-1.2.1	SD-01 Material Lists	X											A										
			02870-1.2.1	SD-01 Site Furnishings	X										X											
			02870-1.2.2	SD-04 Site Furnishing Standards		X										EC										
			02870-1.2.3	SD-06 Installation and Maintainance			X									A										
			02870-1.2.4	SD-18 Installation									X			A										
			02926-1.2.1	SD-01 Method	X											A										

TRANSMITTAL OF SHOP DRAWINGS, EQUIPMENT DATA, MATERIAL SAMPLES, OR MANUFACTURER'S CERTIFICATES OF COMPLIANCE *(Read instructions on the reverse side prior to initiating this form)*	DATE	TRANSMITTAL NO.

SECTION I - REQUEST FOR APPROVAL OF THE FOLLOWING ITEMS *(This section will be initiated by the contractor)*

TO:	FROM:	CONTRACT NO.	CHECK ONE: ☐ THIS IS A NEW TRANSMITTAL ☐ THIS IS A RESUBMITTAL OF TRANSMITTAL_____
SPECIFICATION SEC. NO. *(Cover only one section with each transmittal)*	PROJECT TITLE AND LOCATION		CHECK ONE: THIS TRANSMITTAL IS FOR ☐ FIO ☐ GOV'T. APPROVAL

ITEM NO. *a.*	DESCRIPTION OF ITEM SUBMITTED *(Type size, model number/etc.)* *b.*	MFG OR CONTR. CAT., CURVE DRAWING OR BROCHURE NO. *(See instruction no. 8)* *c.*	NO. OF COPIES *d.*	CONTRACT REFERENCE DOCUMENT		FOR CONTRACTOR USE CODE *g.*	VARIATION *(See instruction No. 6)* *h.*	FOR CE USE CODE *i.*
				SPEC. PARA. NO. *e.*	DRAWING SHEET NO. *f.*			

REMARKS

I certify that the above submitted items have been reviewed in detail and are correct and in strict conformance with the contract drawings and specifications except as other wise stated.

NAME AND SIGNATURE OF CONTRACTOR

SECTION II - APPROVAL ACTION

ENCLOSURES RETURNED *(List by Item No.)*	NAME, TITLE AND SIGNATURE OF APPROVING AUTHORITY	DATE

INSTRUCTIONS

1. Section I will be initiated by the Contractor in the required number of copies.

2. Each transmittal shall be numbered consecutively in the space provided for "Transmittal No.". This number, in addition to the contract number, will form a serial number for identifying each submittal. For new submittals or resubmittals mark the appropriate box; on resubmittals, insert transmittal number of last submission as well as the new submittal number.

3. The "Item No." will be the same "Item No." as indicated on ENG FORM 4288-R for each entry on this form.

4. Submittals requiring expeditious handling will be submitted on a separate form.

5. Separate transmittal form will be used for submittals under separate sections of the specifications.

6. A check shall be placed in the "Variation" column when a submittal is not in accordance with the plans and specifications--also, a written statement to that effect shall be included in the space provided for "Remarks".

7. Form is self-transmittal, letter of transmittal is not required.

8. When a sample of material or Manufacturer's Certificate of Compliance is transmitted, indicate "Sample" or "Certificate" in column c, Section I.

9. U.S. Army Corps of Engineers approving authority will assign action codes as indicated below in space provided in Section I, column i to each item submitted. In addition they will ensure enclosures are indicated and attached to the form prior to return to the contractor. The Contractor will assign action codes as indicated below in Section I, column g, to each item submitted.

THE FOLLOWING ACTION CODES ARE GIVEN TO ITEMS SUBMITTED

A -- Approved as submitted.	E -- Disapproved (See attached).
B -- Approved, except as noted on drawings.	F -- Receipt acknowledged.
C -- Approved, except as noted on drawings. Refer to attached sheet resubmission required.	FX -- Receipt acknowledged, does not comply as noted with contract requirements.
D -- Will be returned by separate correspondence.	G -- Other *(Specify)*

10. Approval of items does not relieve the contractor from complying with all the requirements of the contract plans and specifications.

SECTION TABLE OF CONTENTS

SITE WORK

SECTION 02329 - EMBANKMENT CONSTRUCTION

SECTION 02329 - EMBANKMENT CONSTRUCTION

PART 1 - GENERAL

1.1 SCOPE OF WORK. The work covered in this Section consists of furnishing plant, labor, and equipment and performing the operations in connection with embankment construction for the boardwalk parking area at Interstate 10, raising and widening the access road, and boardwalk foundations.

1.2 REFERENCES. The publications listed below form a part of this specification to the extent referenced. The publications are referred to in the text by the basic designation only.

American Society for Testing and Materials (ASTM) Publications.

D 698-91 (R 1998)	Laboratory Compaction Characteristics of Soil Using Standard Effort (12,400 ft-lbf/ft^3 600kN-mJ/m^3)
D 1556-90 (R 1996)	Density and Unit Weight of Soil In-Place by the Sand-Cone Method
D 2216-98	Laboratory Determination of Water (Moisture) Content of Soil and Rock by Mass
D 2487-98	Classification of Soils for Engineering Purposes (Unified Soil Classification System).
D 2922-96 (E1-1997)	Density of Soil and Soil Aggregate in Place by Nuclear Density Methods (Shallow Depth)
D 3017-96 (E1-1997)	Water Content of Soil and Rock in Place by Nuclear Methods (Shallow Depth)
D4318-98	Liquid Limit, Plastic Limit, and Plasticity Index Of Soils
D 4643	Determination of Water Moisture Content of Soil by the Microwave Oven Method.

1.3 PROTECTION OF EXISTING SERVICE LINES AND UTILITY STRUCTURES. Existing utility lines that are shown or the locations of which are made known to the Contractor prior to excavation and that are to be retained, as well as utility lines constructed during excavation operations, shall be protected from damage during

excavation and backfilling and if damaged, shall be repaired by and at the expense of the Contractor. In the event that the Contractor damages existing utility lines that are not shown, or the locations of which are not known to the Contractor, report of damage shall be made immediately to the Contracting Officer. If it is determined that repairs shall be made by the Contractor, the repairs will be ordered under the CONTRACT CLAUSE entitled CHANGES.

1.4 MEASUREMENT.

1.4.1 Compacted Fill shall be measured by the cubic yard of placed material. The Contractor shall perform surveys to obtain cross sections of the designated work areas both before and after placement of the compacted fill.

1.4.2 Topsoil shall be measured by the cubic yard of placed material. The Contractor shall perform surveys to obtain cross sections before and after placement of the topsoil.

1.5 PAYMENT

1.5.1 Compacted Fill. Payment will be made at the contract unit price per cubic yard for "Compacted Fill."

1.5.2 Topsoil. Payment for topsoil will be made at the contract unit price per cubic yard for “Topsoil”.

PART 2 - PRODUCTS

2.1 EQUIPMENT.

2.1.1 Tamping Rollers shall consist of a unit with a drum diameter not less than 40 inches and an individual drum length of not less than 48 inches. The drums shall be water or sand and water ballasted. Each drum shall have staggered feet uniformly spaced over the cylindrical surface to provide approximately 2.7 feet for each square foot of drum surface. The tamping feet shall be 7 to 9 inches in clear projection from the cylindrical surface of the roller and shall have a face area of not less than 5 nor more than 7 square inches. The roller shall be equipped with cleaning fingers, so designed and attached as to prevent the accumulation of material between the tamping feet, and these cleaning fingers shall be maintained at their full length throughout of the periods of use of the roller. The weight of the roller shall not be less than 1,250 pounds per foot of linear drum length weighted, and shall not be more than 1,000 pounds per foot of drum length empty. The two (2) drums comprising one (1) roller unit shall be yoked in such that they will oscillated when traversing uneven surfaces. The design and operation of the tamping roller shall be subject to approval. The Contracting Officer will have the discretion, at any time during the prosecution of the work, to direct repairs be made to the tamping feet, minor alterations to the roller, and variations in the weight as may be found necessary to secure optimum compaction of the earth fill materials. The Contractor may be required to add ballast to the roller to the maximum capacity specified by the manufacturer of the roller. The

roller shall be drawn by a crawler-type tractor at a speed not to exceed 5 miles per hour.

2.1.2 Rubber-tired Rollers shall consist of two (2) axles on which are mounted not less than nine (9) pneumatic-tired wheels so that the rear group of tires will not follow in the tracks of the forward group and so that the wheels will give uniform compaction over the entire area covered. The axles shall be mounted in a rigid frame provided with a loading platform or body suitable for a minimum of 10,000 pounds ballast loading. The tires shall be uniformly inflated. The rollers shall be weighted as directed. The tractor or other towing equipment unless self-propelled, shall also be pneumatic-tired.

2.1.3 Crawler-type Tractors used for spreading and compacting compacted fill shall weigh not less than 30,000 pounds, shall exert a unit tread pressure of not less than 7 pounds per square inch, and shall be operated at a speed not to exceed 5 miles per hour.

2.1.4 Power-driven Tampers. Compaction of material in areas where it is impracticable to use a tractor shall be performed by the use of approved power-driven tampers of the rammer-type having a static weight of at least 70 pounds or by approved hydraulically-actuated tractor-mounted tampers.

2.1.5 Sprinkling Equipment shall consist of tank trucks, pressure distributors, or other equipment designed to apply water uniformly and in controlled quantities to variable widths of surface.

2.1.6 Miscellaneous Equipment. Scarifiers, disks, spring-tooth or spike-tooth harrows, spreaders, and other equipment shall be of approved types, suitable for construction of embankments. Trucks and other types of earth-hauling equipment shall be of approved types suitable for construction.

2.2 MATERIALS.

2.2.1 Satisfactory Materials for construction of compacted fill shall include clays and sandy clays classified in accordance with ASTM D 2487 as CL and CH.

PART 3 - EXECUTION

3.1 FOUNDATION PREPARATION. After stripping has been completed, holes and depressions existing in the embankment foundation areas prior to construction or resulting from clearing and grubbing activities shall be thoroughly broken down and material spread to result in a relatively smooth, uniform surface.

3.1.1 Stripping. The embankment foundation areas shall be stripped as specified in the SECTION entitled STRIPPING AND EXCAVATION. Topsoil shall be stripped to a depth of 6 inches and shall be stockpiled separately from other excavated materials.

3.1.2 Preparation of Access Road Embankments. Prior to placement of fill material, the entire surface against which fill is to be placed shall be thoroughly scarified to a depth of 6 inches and compacted with three (3) passes of the specified crawler-type tractor.

3.2 EMBANKMENT CONSTRUCTION.

3.2.1 Drainage. The foundation receiving compacted fill shall be kept thoroughly drained.

3.2.2 Moisture Control. The moisture content after compaction shall be within 6 percentage points above optimum moisture content and 1 percentage point below optimum moisture content. Optimum moisture content shall be determined by the Contractor by performing compaction tests in accordance with ASTM D 698. Material that is too wet shall be spread on the embankment and permitted to dry until the moisture content is reduced to an amount within the specified limits. When the material is too dry, the Contractor shall be required to uniformly distribute sufficient moisture in each layer before rolling until the moisture content is increased to an amount within the specified limits. Harrowing or other approved methods will be required to work the moisture into the material until a uniform distribution of moisture is obtained.

3.2.3 Compacted Fill Construction. Heavy equipment shall not be operated over pipes and buried structures until at least 2 feet of fill material has been placed and compacted over the pipes or buried structures. Satisfactory material from the approved borrow area shown, shall be spread in layers not more than 8 inches in thickness prior to compaction. Layers shall be placed to the full width of the fill zone and shall be substantially horizontal with sufficient crown or slope to provide satisfactory drainage. If the surface of a compacted layer is too smooth to bond properly with the succeeding layer, it shall be scarified before the succeeding layer is placed thereon. The moisture content of each layer shall be controlled as specified in the Subparagraph, Moisture Control, above. Each spread layer shall be compacted with a minimum of six (6) complete coverages of a tamping roller or a rubber-tired roller, or by seven (7) complete passes of a crawler-type tractor conforming to the requirements of the Paragraph: EQUIPMENT, above. Power-driven tampers shall be used where rolling equipment is impractical for use in compaction.

3.2.4 Spreading of Topsoil. After the embankment slopes have been dressed, approved material that has been stripped and conserved shall be placed on the embankment slopes. The Contractor will be required to place topsoil on the embankment slope disturbed by construction.

3.3 GRADE TOLERANCES AND SHRINKAGE ALLOWANCES FOR EMBANKMENTS. Embankments shall be constructed to the lines and grades shown, with the addition of allowance for shrinkage of the fill during subsequent surfacing operations. At all points a tolerance of 3 inches above the prescribed grade of the embankment side slopes and berms shall be permitted in the final dressing, provided that excess material is so distributed that there are no abrupt humps or depressions in

the sloped surfaces or bulges in the width of the crown. The top of all embankments to receive flexible base shall not show a deviation in excess of 1/2 inch when measured with a 10-foot straightedge when applied both parallel with and at right angles to the centerline of the embankment.

3.4 HAUL ROADS are to be constructed as specified in the SECTION entitled TEMPORARY CONSTRUCTION FACILITIES. Required haul roads shall be used to haul borrow material from the Borrow Area to the embankment construction sites and to dispose other materials as specified previously. The Contractor may use the existing levee road and embankments and new embankments during construction as a haul road, but shall sequence the work so that no roadways or surfaces are used after their completion. No completed surfaces with flexible base, aggregate surface course, or asphaltic concrete shall be used as a haul road or other passage of heavy equipment. Slopes, berms, roadways, or other surfaces that have been damaged by construction activities shall be returned to their original condition, including required fill, resurfacing, or re-sodding. In addition, no additional payment shall be made for temporary access roads from the levee crown to the parking area.

3.5 EMBANKMENT SLIDES AND EROSION. In the event there is sliding or erosion of a portion of the constructed embankments during its construction, or after completion but prior to acceptance, the Contractor shall, upon a written directive by the Contracting Officer, reconstruct that portion of the embankment. In case the slide is due to the fault of the Contractor, the work shall be accomplished at no additional cost to the Government.

3.6 TESTING shall be the responsibility of the Contractor and shall be performed at no additional cost to the Government. When the Contracting Officer determines that the test results indicate that compaction is unsatisfactory, the material shall be removed, replaced, and recompacted to meet specification requirements, at no additional expense to the Government. Tests on recompacted areas shall be performed to determine conformance with specification requirements. The following number of tests shall be the minimum acceptable for each type of operation.

3.6.1 Fill and Backfill Material, Liquid Limit, and Plastic Limit. A minimum of one (1) classification, liquid limit, and plastic limit test shall be run for every 300 cubic yards of material placed. Additional tests shall be performed for each material change. The tests shall be run on material used to determine the laboratory maximum dry density. Classification of fill and backfill material shall be determined in accordance with ASTM D 2487. Liquid and plastic limit shall be determined according to ASTM D 4318.

3.6.2 Moisture Content shall be determined from a minimum of one (1) sample taken at each lift in accordance with ASTM D 2216, ASTM D 3017, or ASTM D 4643.

3.6.3 Optimum Moisture and Laboratory Maximum Density shall be determined in accordance with ASTM D 698. A minimum of one test shall be run for each material and type or source used.

3.6.4 In-place Density Tests. A minimum of one (1) in-place density test shall be performed for every 500 cubic yards of material placed, or faction thereof, at each compacted fill work area. The tests shall be performed in accordance with ASTM D 2922 or ASTM D 1556.

3.7 CONTRACTOR QUALITY CONTROL.

3.7.1 Compliance Inspection. The Contractor shall inspect for compliance with contract requirements and record the inspection of operations, including, but not limited to the following:

(1) Materials. - Unsatisfactory materials, including sands and silts are not used in embankment construction.

(2) Foundation Preparation. - Scarification, lime stabilization, compaction of required areas.

(3) Raise Access Road. - Layer thickness; lines and grades; moisture content, and proper compaction.

(4) Widen Access Road. - Layer thickness; lines and grades; moisture content, and proper compaction.

(5) Parking Lot. - Layer thickness; lines and grades; moisture content, and proper compaction.

3.7.2 Records. A copy of the records of inspections and tests, including surveyed cross sections of the completed levee, parking areas, and access road, as well as the records of corrective action taken, shall be submitted as directed.

- - o O o - -

SECTION TABLE OF CONTENTS

SITE WORK

SECTION 02825 - METAL BEAM GUARD FENCE

SECTION 02825 - METAL BEAM GUARD FENCE

PART 1 - GENERAL

1.1 REFERENCES. The publication listed below forms a part of this specification to the extent referenced. The publication is referred to in the text by the basic designation only.

Texas Department of Transportation (TDT) Specification.

Item 540 (1 Mar 93) Metal Beam Guard Fence.

1.2 MEASUREMENT. The quantity of Metal Beam Guard Fence, including the barricade at the chute structure, installed shall be measured in linear feet.

1.3 PAYMENT for the Metal Beam Guard Fence will be made at the contract unit price per linear foot for "Metal Beam Guard Fence."

PART 2 - PRODUCTS (Not Applicable)

PART 3 - EXECUTION

3.1 METAL BEAM GUARD FENCE shall be constructed in accordance with TDT Item 540 and as shown.

3.2 CONTRACTOR QUALITY CONTROL.

3.2.1 The Contractor shall inspect for compliance with the contract requirements and record the inspection of operations for the construction of the Metal Beam Guard Fence as herein specified.

3.2.2 A copy of the records of inspections, as well as the records of corrective action taken, shall be furnished to the Government as directed.

- - o O o - -

SECTION TABLE OF CONTENTS

SITE WORK

SECTION 02926 - ESTABLISHMENT OF TURF

SECTION 02926 - ESTABLISHMENT OF TURF

PART 1 - GENERAL

1.1 SCOPE OF WORK. The work covered in this Section consists of establishment of Bermuda grass over the disturbed areas. Turf establishment shall include labor, equipment, and materials necessary to prepare the seed bed, fertilize, and water.

1.2 SUBMITTALS. Government approval is required for submittals with a "GA" designation; submittals having an "FIO" designation are for information only. The following shall be submitted in accordance with the SECTION entitled SUBMITTAL PROCEDURES.

1.2.1 SD-01 Data.

1.2.1.1 Method: GA. Method for applying seed shall be submitted..

1.3 MEASUREMENT. Turfing will not be measured for payment.

1.4 PAYMENT for turfing will be included in the contract lump sum price for "Environment Protection," which price shall constitute full compensation for the work specified herein.

PART 2 - PRODUCTS

2.1 MATERIALS.

2.1.1 Fertilizer used shall be commercial grade, free flowing and uniform in composition. Fertilizer shall be 13-13-13 Grade. Fertilizer shall be spread by an approved method at the manufacturer's recommended rate.

2.1.2 Water shall be free from oil, acid, alkali, salt, and other substances harmful to growth of grass. The water source shall be subject to approval prior to use.

2.1.3 Seed shall be State-certified seed of the latest season's crop and shall be delivered in original sealed packages bearing the producer's guaranteed analysis for percentages of mixtures, purity, germination, weed-seed content, and inert material.

PART 3 - EXECUTION

3.1 SEEDING. Turf operations shall be performed only during periods when beneficial results can be obtained. When drought, excessive moisture or other unsatisfactory conditions prevail, the work shall be stopped when directed. When special conditions warrant a variance in the turfing operations, proposed times shall be submitted and approved. Establishment of turf shall be accomplished on the repaired, topsoiled embankments as directed.

3.1.1 General. Immediately after construction is complete, seeding and fertilizing shall commence on the exposed, disturbed areas. Seed shall be applied at the rate per acre specified in the following Table:

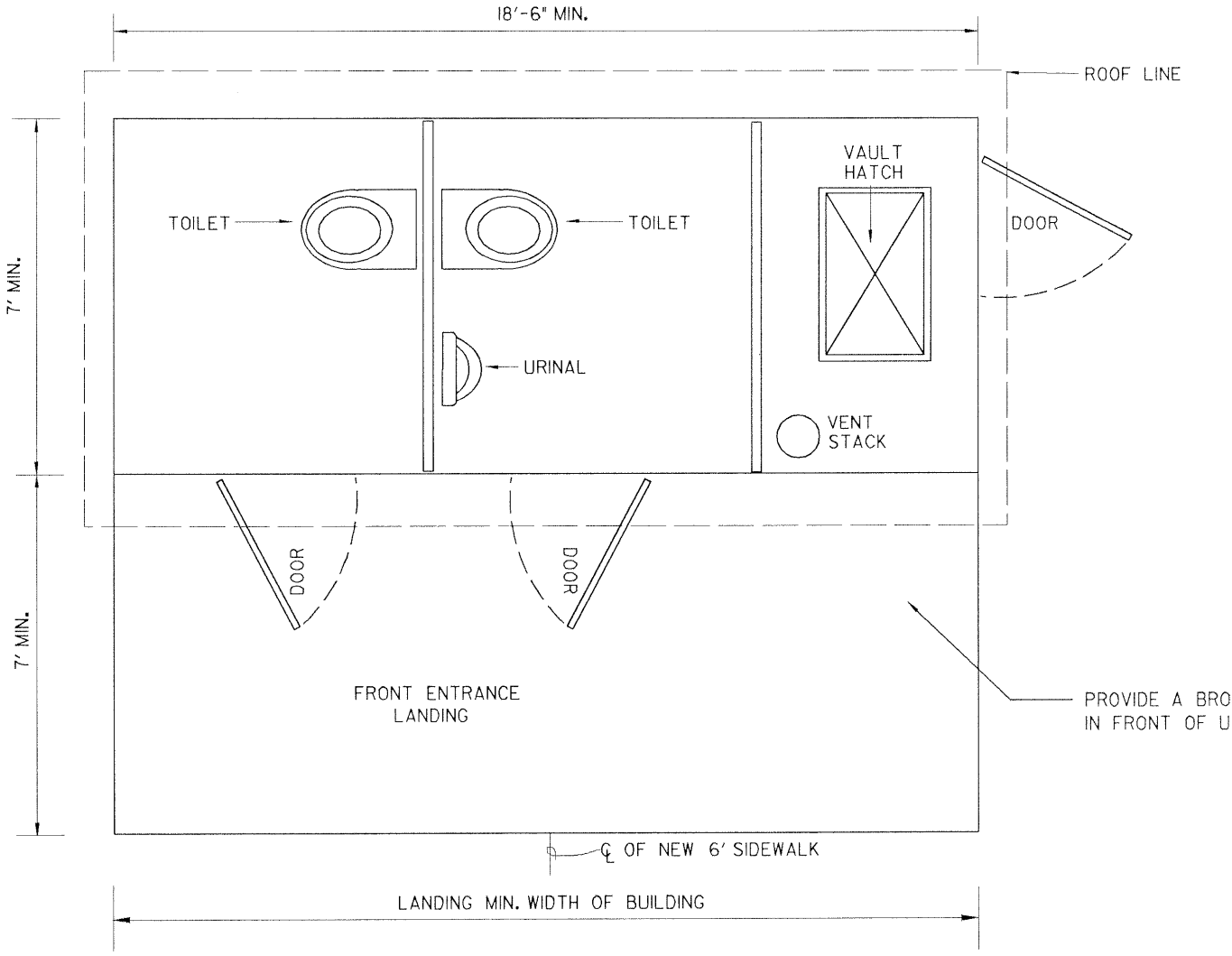
Planting Window	**Pure Live Seed Species**	**Rate Pounds per Acre**
1. October 1 to March 31	Hulled Common Bermuda grass Unhulled Common Bermuda grass Crimson Clover	30 20 10
2. April 1 to September 30	Hulled Common Bermuda grass Hulled NK-37 Bermuda grass Blue Grama	30 15 10
NOTE: Pure Live Seed = % Purity x (% Germination + % Hard Seed)/100		

3.1.2 Applying Seed. Seed shall be applied using an approved method and equipment. The Contractor shall submit method for approval as specified herein.

3.2 WATERING shall commence immediately after completion of seeding and fertilizing. Water shall be applied at the rate and duration required to obtain a satisfactory stand of turf..

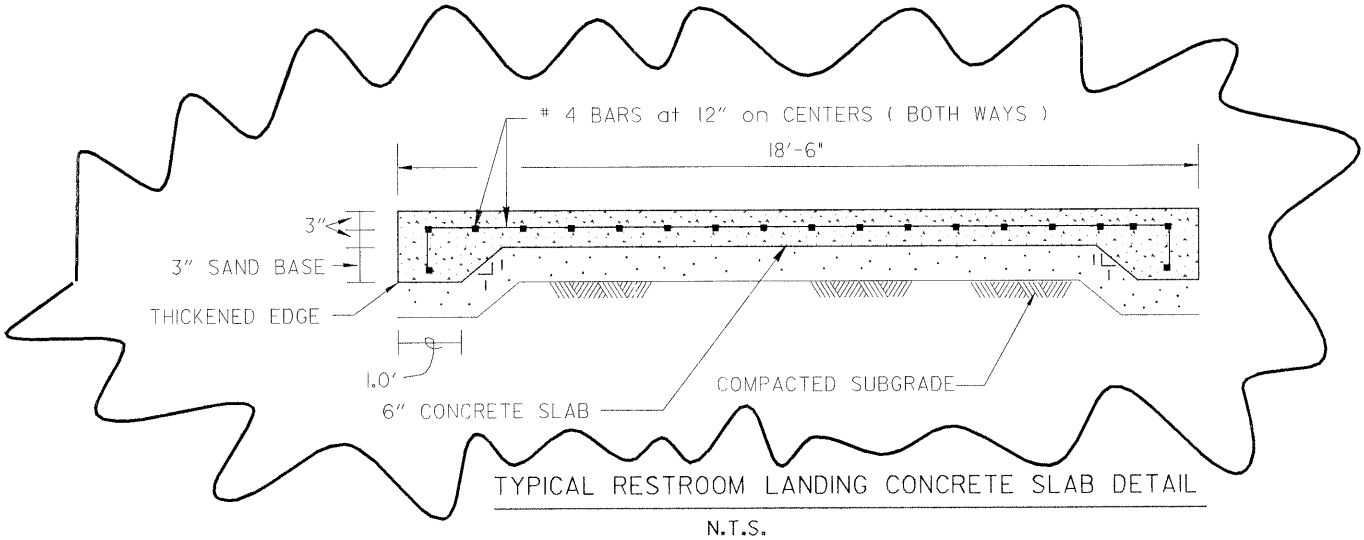
3.3 ACCEPTANCE OF TURF. Establishment of turf will be accepted upon completion of 70 percent coverage of a healthy stand of Bermudagrass. Bare spots greater than 25 square feet shall be repaired by the Contractor at no cost to the Government. A final inspection will be conducted by the Contracting Officer to determine that deficiencies have been corrected and an acceptable stand of Bermudagrass is present.

- - o O o - -



PRE-FABRICATED RESTROOM BUILDING TYPICAL FLOOR PLAN

N.T.S.



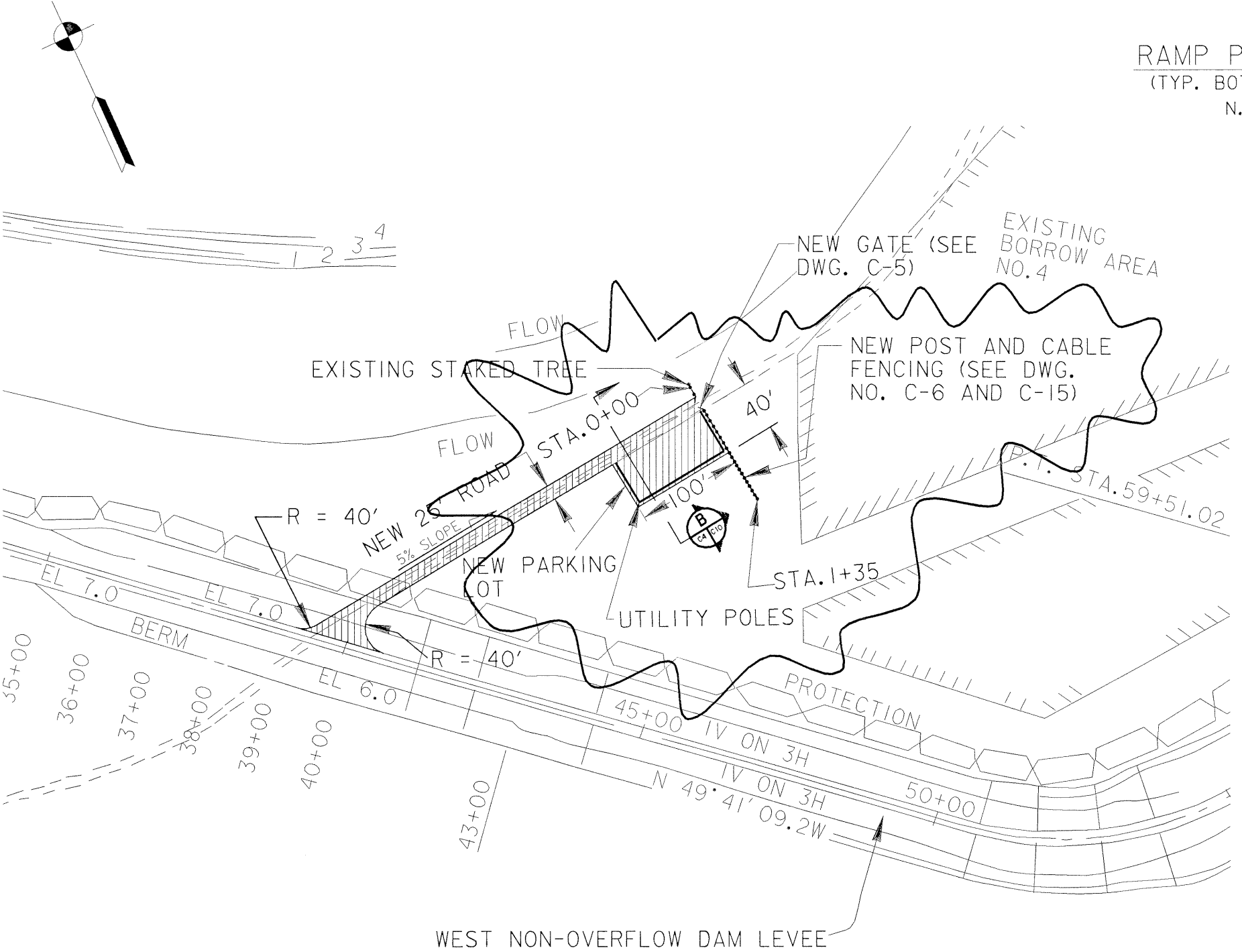
TYPICAL RESTROOM LANDING CONCRETE SLAB DETAIL

N.T.S.

THIS ATTACHMENT ACCOMPANIES AMENDMENT NO. 0001
TO INVITATION NO. DACW64-02-B-0032.
(ATTACH TO DRAWING C-3)

ATTACHMENT NO. 1

RAMP PROFILE
(TYP. BOTH SIDES)
N.T.S.



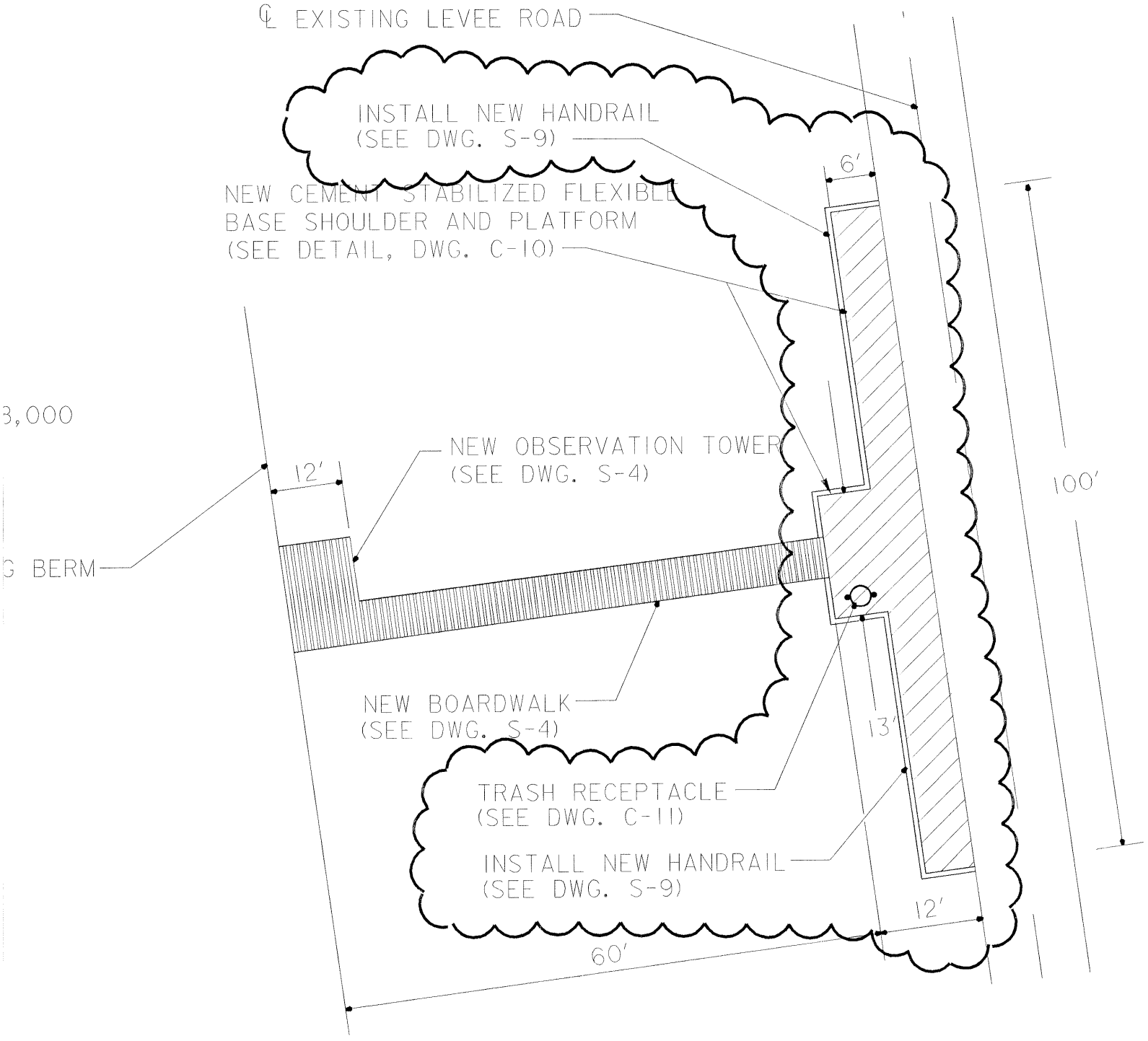
NOTES

THIS ATTACHMENT ACCOMPANIES AMENDMENT NO. 0001
TO INVITATION NO. DACW64-02-B-0032.
(ATTACH TO DRAWING NO. C-4)

NEW PARKING AND ROAD

ATTACHMENT NO. 2

REVISION

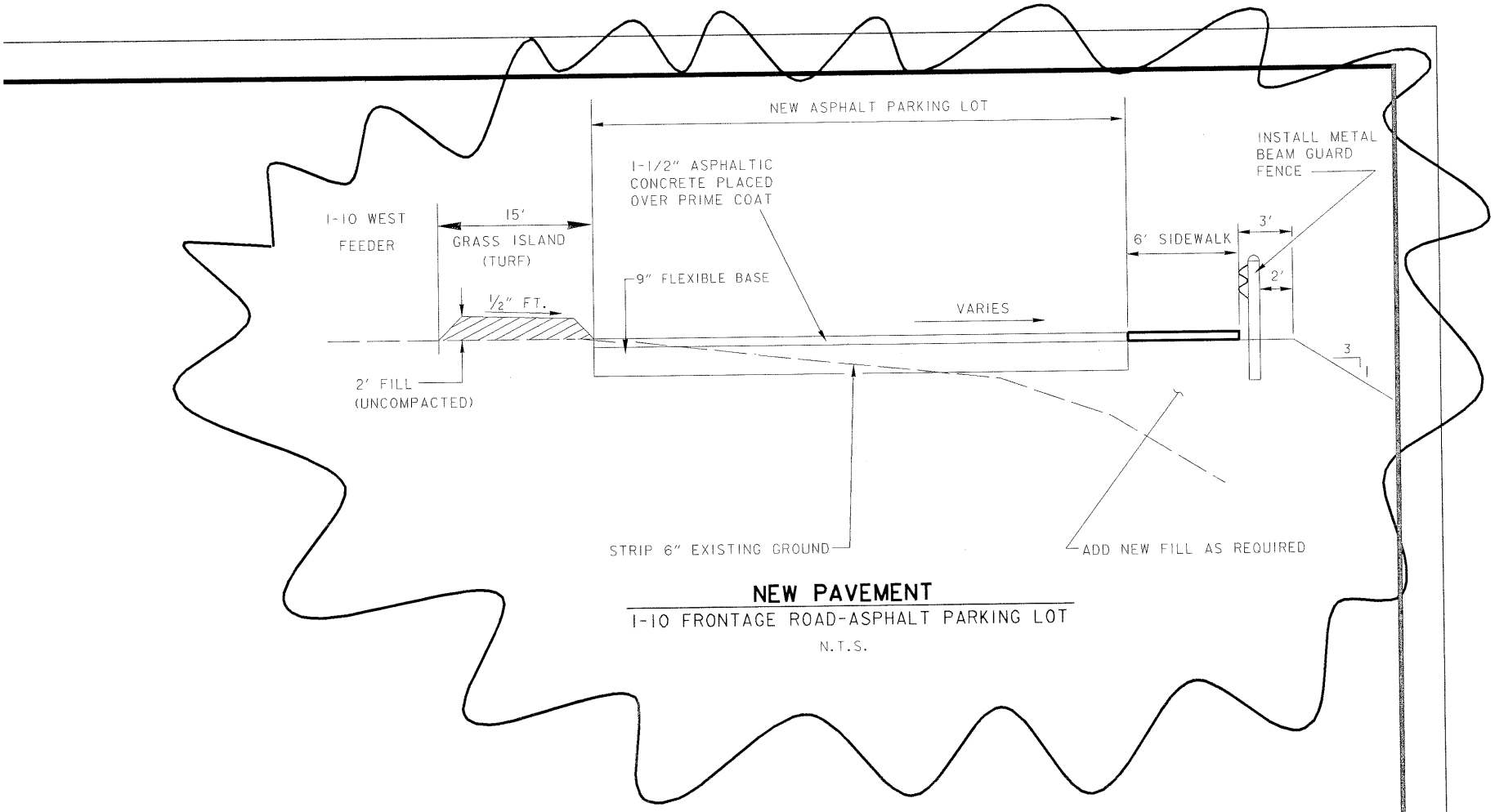


INSERT DETAIL, STA. 126+50

N.T.S.

THIS ATTACHMENT ACCOMPANIES AMENDMENT
NO. 0001 TO INVITATION NO. DACW64-02-B-0032
(ATTACH TO DRAWING C-8)

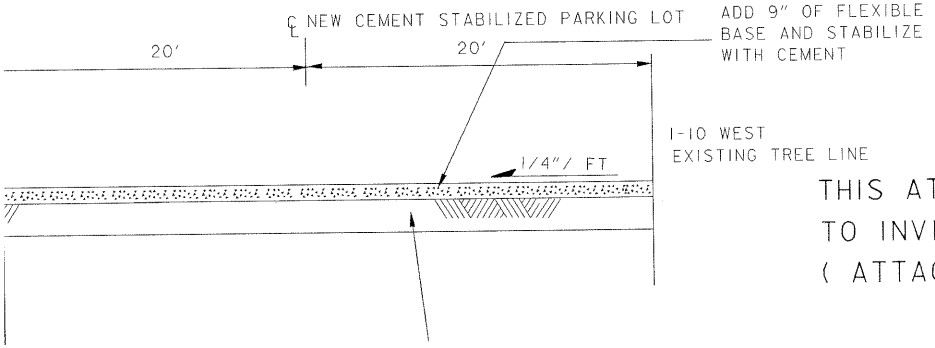
ATTACHMENT NO. 3



NEW PAVEMENT

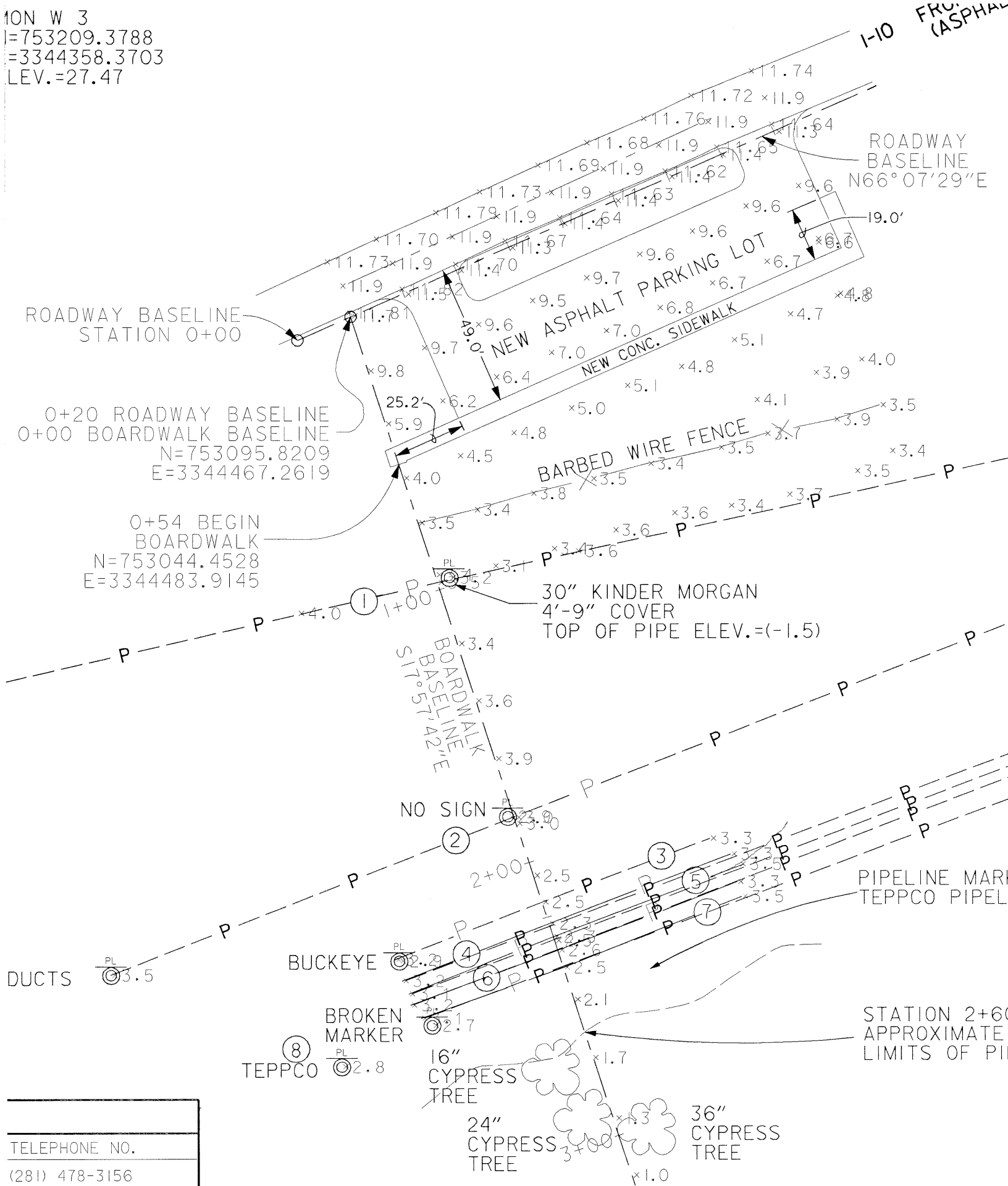
I-10 FRONTAGE ROAD-ASPHALT PARKING LOT

N.T.S.



THIS ATTACHMENT ACCOMPANIES AMENDMENT NO. 0001
TO INVITATION NO. DACW64-02-B-00032
(ATTACH TO DRAWING C-10)

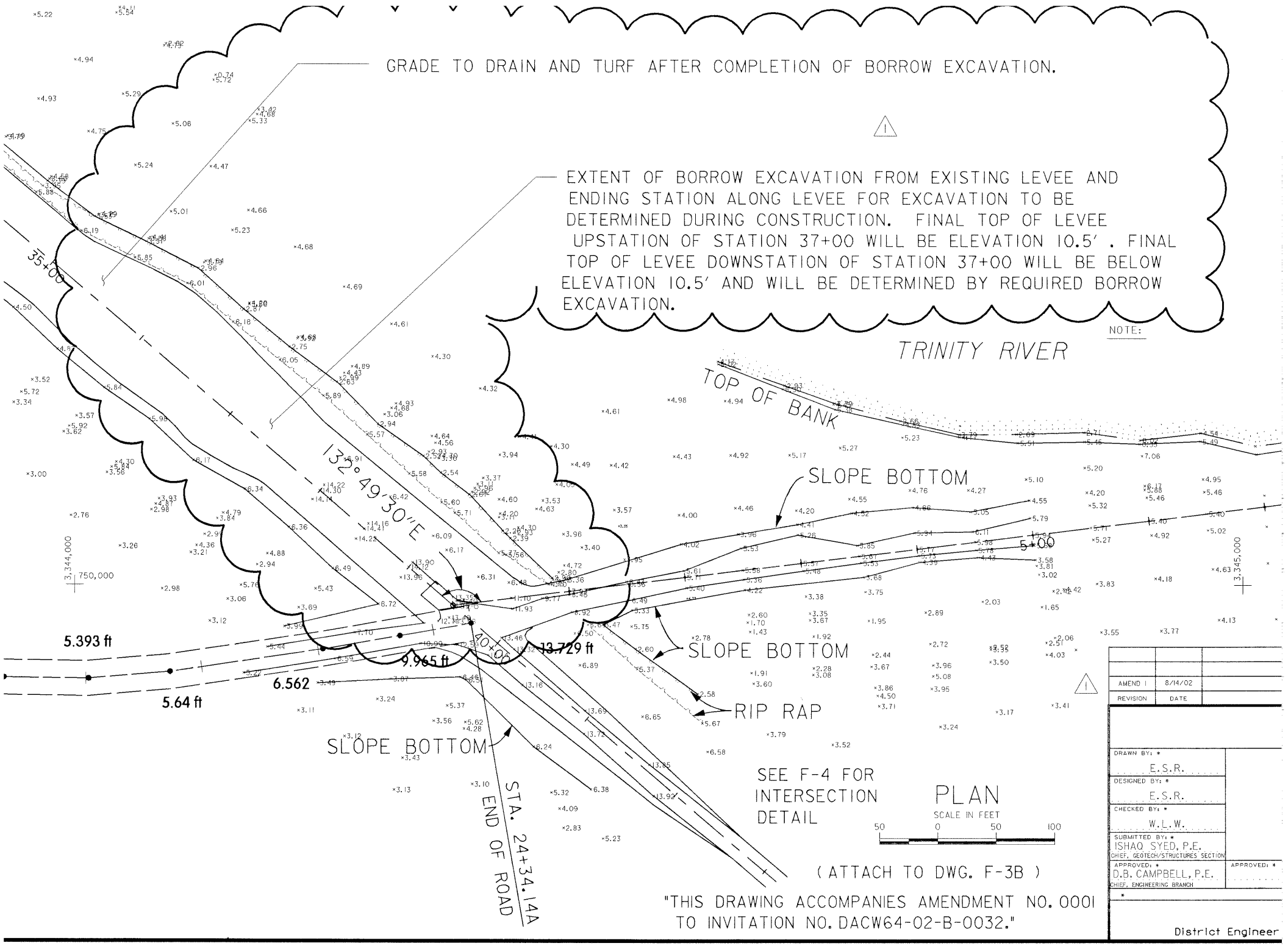
ATTACHMENT NO. 4



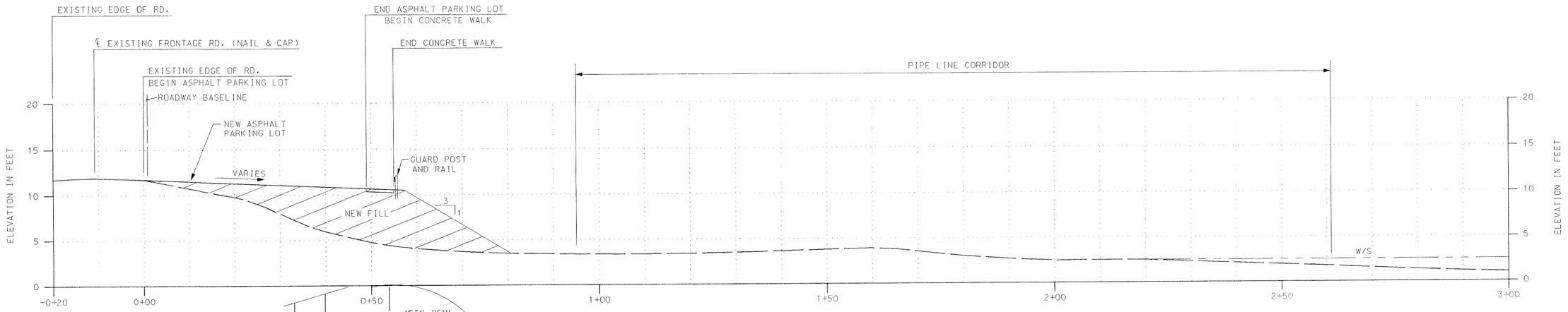
TELEPHONE NO.
(281) 478-3156
(281) 922-3690
(281) 922-3684
(713) 369-8851
) 336-5773, ext. 25

THIS ATTACHMENT ACCOMPANIES AMENDMENT NO. 0001
TO INVITATION NO. DACW64-02-B-0032.
(ATTACH TO DRAWING C-12)

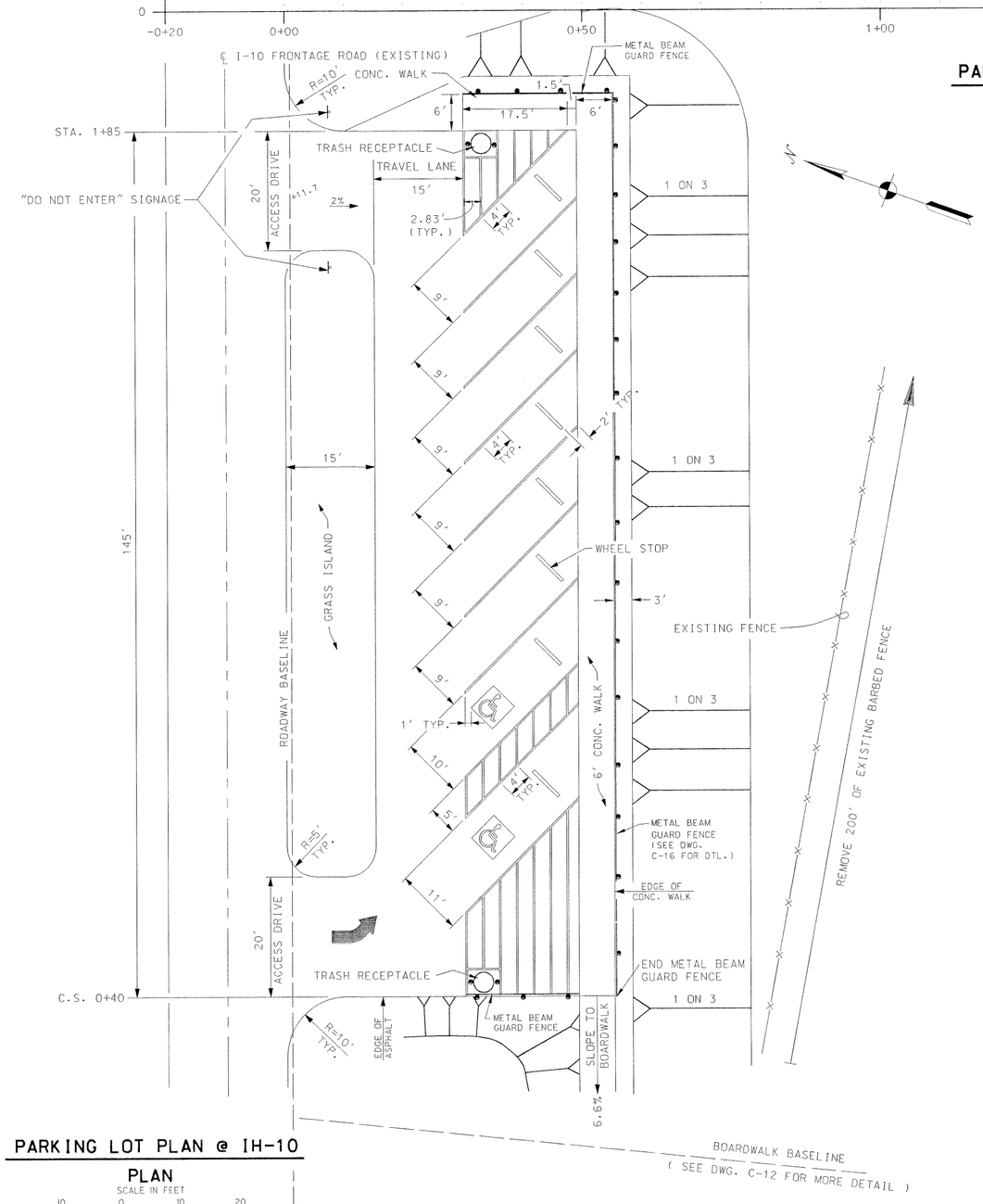
ATTACHMENT NO. 5



ATTACHMENT NO. 6



PARKING LOT PROFILE @ IH-10

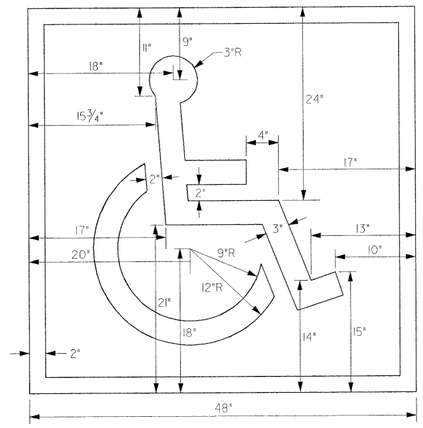


PARKING LOT PLAN @ IH-10

PLAN

SCALE IN FEET

10 0 10 20



SYMBOL COLORS:

SYMBOL & BORDER: WHITE
BACKGROUND: BLUE

HANDICAP PAVEMENT MARKING

N.T.S.

NOTES:

1. REMOVE EXISTING FENCE WITHIN NEW PARKING LOT VICINITY.
2. FOR THE LOCATIONS OF THE EXISTING PIPELINES, SEE DWG. C-12.
3. SEE DWG. C-10 FOR DETAILS ON THE ASPHALT PARKING LOT.
4. SEE DWG. C-15 FOR DETAILS ON THE POST AND CABLE FENCE.
5. SEE DWG. C-14 FOR DETAILS ON THE WHEEL STOP.
6. POSTS SHOWN FOR FENCING ARE FOR CLARITY ONLY, NOT QUANTITY.
7. SEE SURVEY ON DWG C-12 FOR ALIGNMENT OF EXISTING I-10 FRONTAGE ROAD.
8. ALL UNDERSTORY VEGETATION WITH A 2" DIAMETER OR LESS IN THE VICINITY OF CONSTRUCTION OF THE PARKING LOT SHALL BE CLEARED FROM I-10 TO THE RIVER BANK AND FROM STA. 0+20 TO STA. 1+80. ALL CYPRESS TREES SHALL REMAIN.
9. SEE DWG. C-13 FOR PARKING LOT CROSS SECTIONS.

PARKING LOT NOTES:

1. ASPHALT PARKING LOT SHALL HAVE 2% CROSS SLOPE.
2. CONCRETE SIDEWALK SHALL HAVE 0.005% (1/2%) CROSS SLOPE.
3. CONCRETE SIDEWALK SHALL HAVE MIN. 6% TO MAX 8% LONGITUDINAL SLOPE TO BOARDWALK.
4. CONTRACTOR SHALL REPLACE BARBED-WIRE FENCE IF DAMAGED.
5. PARKING LOT STRIPING SHALL BE WHITE IN COLOR AND 4" WIDE.

"THIS DRAWING ACCOMPANIES AMENDMENT NO. 0001 TO INVITATION NO. DACW64-02-B-0032."

REVISION	DATE	DESCRIPTION	BY
1 AMEND 1	8/19/02	RE-ISSUE DRAWING	M.S.

OFFICE OF THE DISTRICT ENGINEER
U.S. ARMY ENGINEER DISTRICT, GALVESTON
CORPS OF ENGINEERS
GALVESTON, TEXAS

TRINITY RIVER AND TRIBUTARIES, TEXAS
WALLISVILLE LAKE, NON-OVERFLOW DAM
PUBLIC FACILITIES

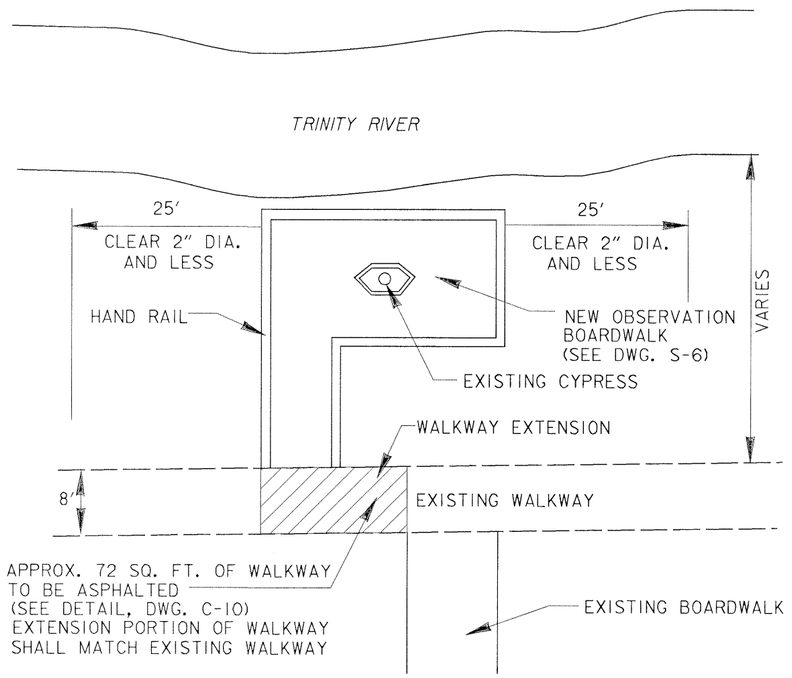
PARKING LOT AT I-10
PLAN AND ELEVATION

DRAWN BY: * B.H.
DESIGNED BY: * B.H.
CHECKED BY: * X
SUBMITTED BY: * C. M. CASTELLINE, P.E., CHIEF, GENERAL ENGINEERING SECTION
APPROVED: * D.B. CAMPBELL, P.E., CHIEF, ENGINEERING BRANCH
APPROVED: * HARRY G. KOHLER, P.E., CHIEF, ENGINEERING AND CONSTRUCTION DIVISION
DATE: AUGUST 2002
* AS REQUIRED BY ENGINEER REGULATION NO. 1110-1-8152)
SCALE: AS SHOWN
SPEC. DATE:

Prepared under the direction of
Leonard D. Waterworth, Col., C.E.,
District Engineer

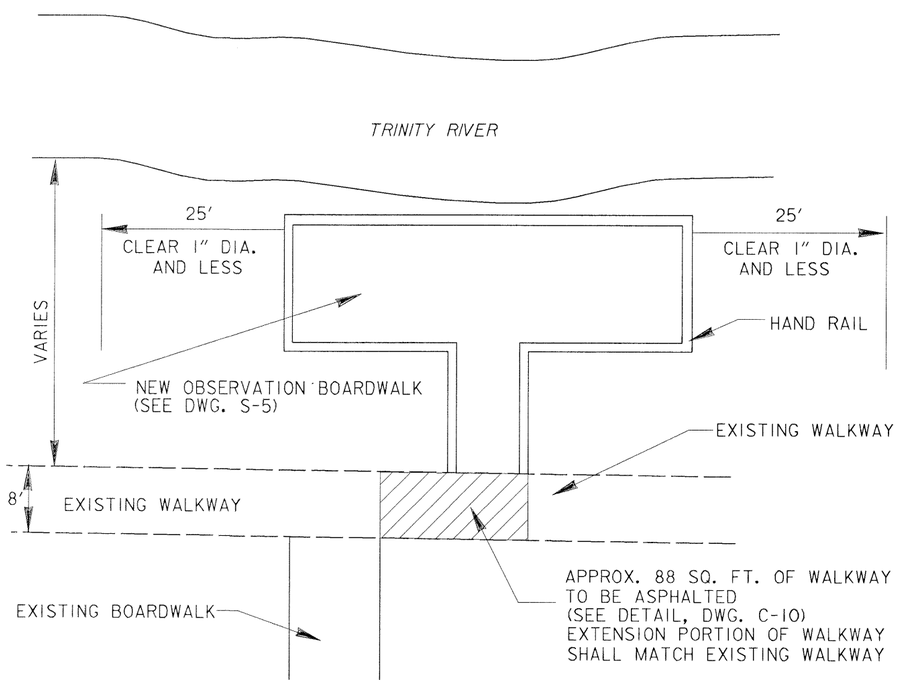
DRAWING NUMBER
C-9

SHEET 9 OF 35 FILE NO. TRIN 201-106



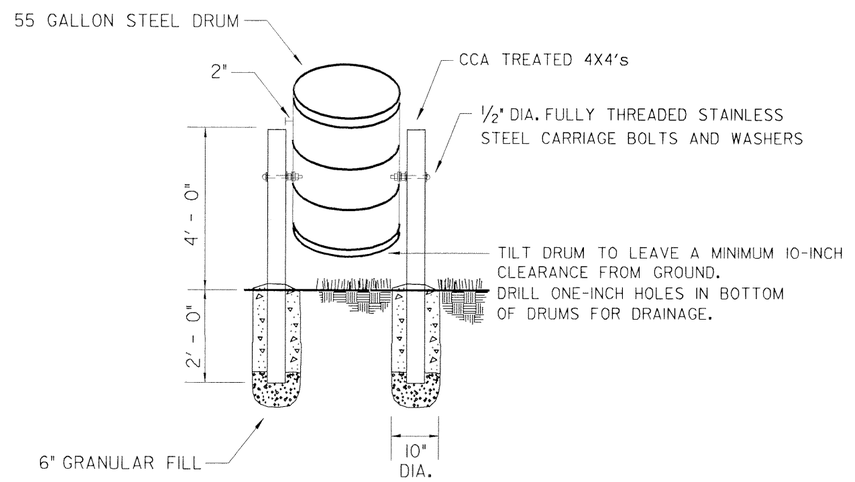
STA. 105+00 WALKWAY EXTENSION/OBSERVATION BOARDWALK

N.T.S.



STA. 121+12 WALKWAY EXTENSION/OBSERVATION BOARDWALK

N.T.S.



TYPICAL TRASH RECEPTACLE

N.T.S.

NOTES

1. AT STA. 105+00, ALL UNDERSTORY VEGETATION WITH A 2 INCH DIAMETER OR LESS IN THE VICINITY OF CONSTRUCTION SHALL BE CLEARED FROM THE RIVER BANK TO THE EXISTING WALKWAY.
2. AT STA. 121+12, ALL UNDERSTORY VEGETATION WITH A 1 INCH DIAMETER OR LESS IN THE VICINITY OF CONSTRUCTION SHALL BE CLEARED FROM THE RIVER BANK TO THE EXISTING WALKWAY.
3. TREES LOCATED IN THE CLEARING AREA SHALL BE PRUNED TO A MINIMUM HEIGHT OF 10 FEET.

"THIS DRAWING ACCOMPANIES AMENDMENT NO. 0001 TO INVITATION NO. DACW64-02-B-0032."

REVISION	DATE	DESCRIPTION	BY
1 AMEND 1	8/19/02	RE-ISSUE DRAWING	M.S.

OFFICE OF THE DISTRICT ENGINEER
U.S. ARMY ENGINEER DISTRICT, GALVESTON
CORPS OF ENGINEERS
GALVESTON, TEXAS

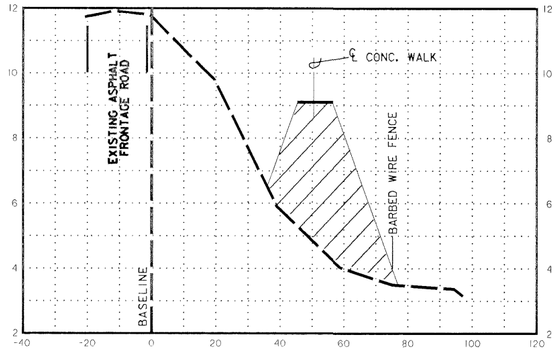
DRAWN BY: * B.H.
DESIGNED BY: * B.H.
CHECKED BY: * X
SUBMITTED BY: * C.M. CASTELLINE, P.E. CHIEF, GENERAL ENGINEERING SECTION
APPROVED: * D.B. CAMPBELL, P.E. CHIEF, ENGINEERING BRANCH
APPROVED: * HARRY G. KOHLER, P.E. CHIEF, ENGINEERING AND CONSTRUCTION DIVISION
DATE: AUGUST 2002
* AS REQUIRED BY ENGINEER REGULATION NO. 1110-1-8152
SCALE: AS SHOWN
SPEC. DATE:
Prepared under the direction of Leonard D. Waterworth, Col., C.E., District Engineer

TRINITY RIVER AND TRIBUTARIES, TEXAS
WALLISVILLE LAKE, NON-OVERFLOW DAM
PUBLIC FACILITIES

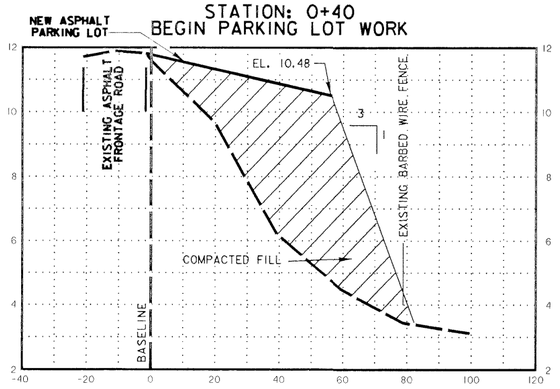
WALKWAY EXTENSION PLAN

DRAWING NUMBER C-11
SHEET 11 OF 35 FILE NO. TRIN 201-106

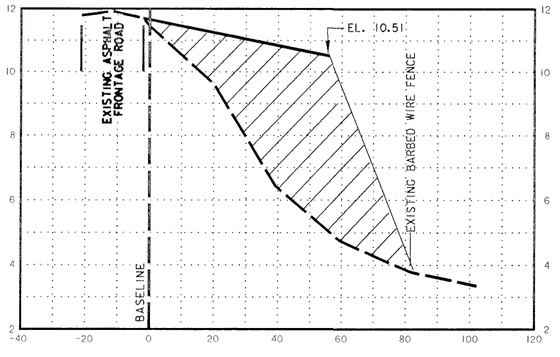
STATION: 0+20



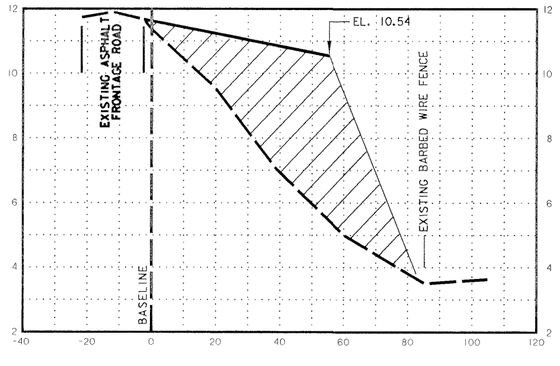
STATION: 0+40
BEGIN PARKING LOT WORK



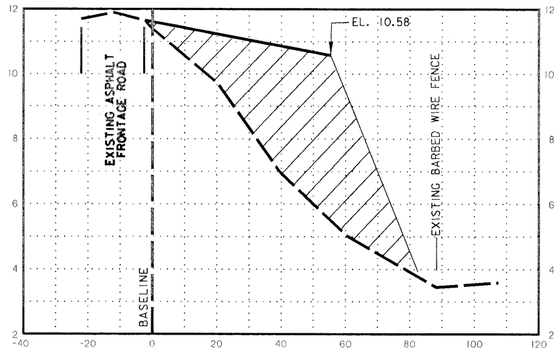
STATION: 0+60



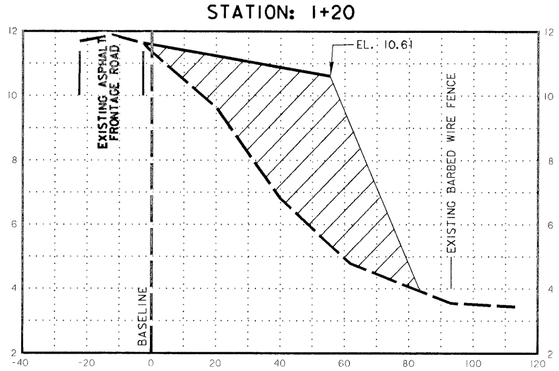
STATION: 0+80



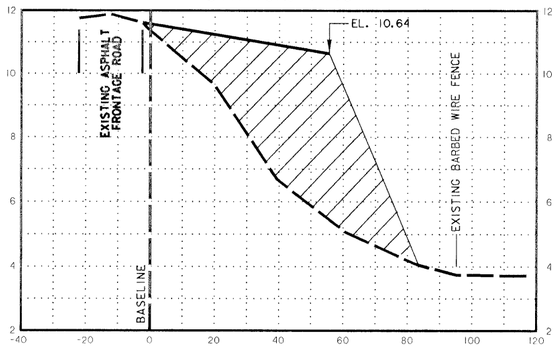
STATION: 1+00



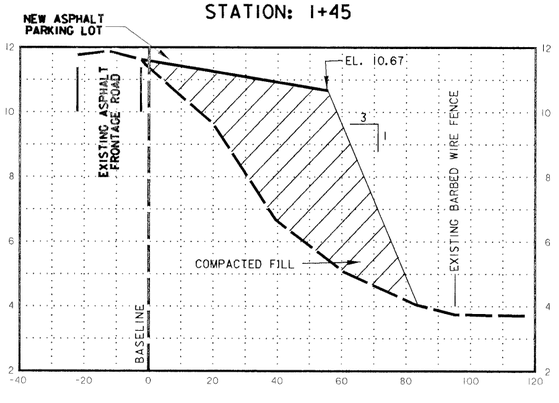
STATION: 1+20



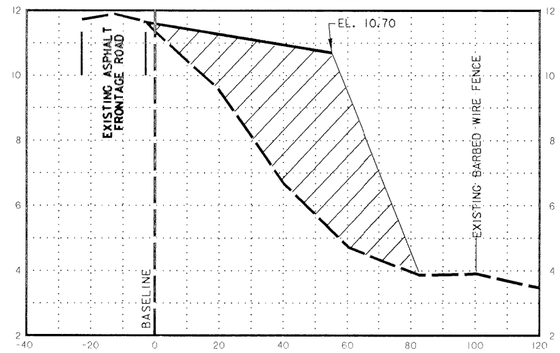
STATION: 1+40



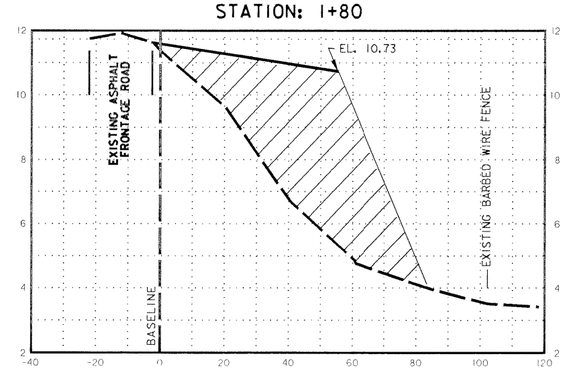
STATION: 1+45



STATION: 1+60

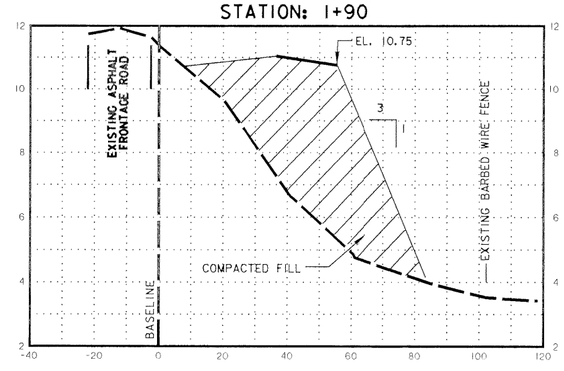


STATION: 1+80



END OF PARKING LOT WORK STATION: 1+85

STATION: 1+90



SCALE: 1" = 20' HORIZ.
1" = 2' VERT.

NOTE:
ELEVATIONS SHOWN HEREON ARE BASED ON VERTICAL DATUM PROVIDED BY U.S.A.C.E. AND ARE BASED ON THE 1978 AJUSTMENT OF THE NGVD OF 1929.

REVISION	DATE	DESCRIPTION	BY
1	8/19/02	RE-ISSUE DRAWING	M.S.

OFFICE OF THE DISTRICT ENGINEER
U.S. ARMY ENGINEER DISTRICT, GALVESTON
CORPS OF ENGINEERS
GALVESTON, TEXAS

DRAWN BY: * B.H.
DESIGNED BY: * B.H.
CHECKED BY: * X
SUBMITTED BY: * C.M. CASTELLINE, P.E.
CHIEF, GENERAL ENGINEERING SECTION
APPROVED: * D.B. CAMPBELL, P.E.
CHIEF, ENGINEERING BRANCH
APPROVED: * HARRY G. KOHLER, P.E.
CHIEF, ENGINEERING AND CONSTRUCTION DIVISION
DATE: AUGUST 2002
* AS REQUIRED BY ENGINEER REGULATION NO. 1110-1-8152
SCALE: AS SHOWN
SPEC. DATE:

TRINITY RIVER AND TRIBUTARIES, TEXAS
WALLISVILLE LAKE, NON-OVERFLOW DAM
PUBLIC FACILITIES

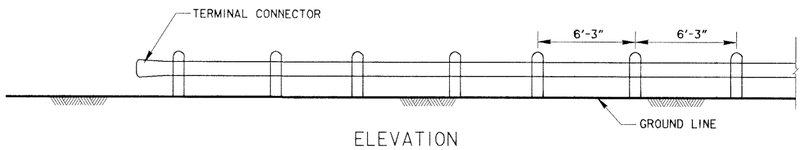
PARKING LOT AT I-10
STA. 0+20 TO STA. 1+80

Prepared under the direction of
Leonard D. Waterworth, Col., C.E.,
District Engineer

DRAWING NUMBER
C-13

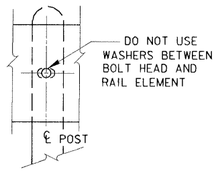
SHEET 13 OF 35 FILE NO. TRIN 201-106

"THIS DRAWING ACCOMPANIES AMENDMENT NO. 0001 TO INVITATION NO. DACW64-02-B-0032."



ELEVATION

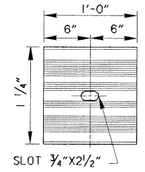
NOT TO SCALE



POST CONNECTION

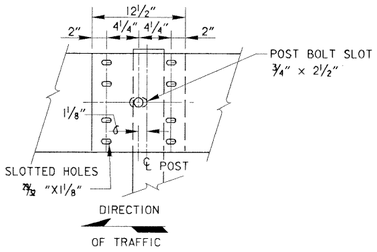
WOOD POST

NOT TO SCALE



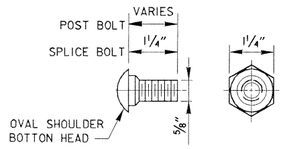
BACK-UP PLATE

NOT TO SCALE



RAIL SPLICE

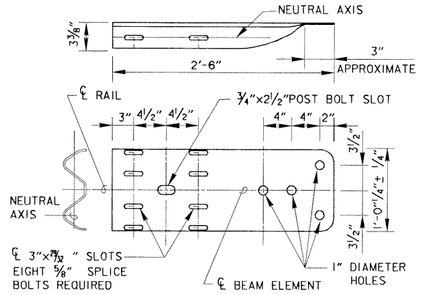
NOT TO SCALE



CONNECTOR DETAIL

(1 7/8" HEX BOLTS REQUIRED FOR TERMINAL CONNECTOR)

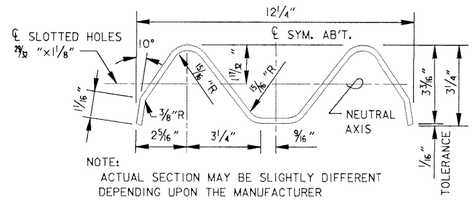
NOT TO SCALE



TERMINAL CONNECTOR

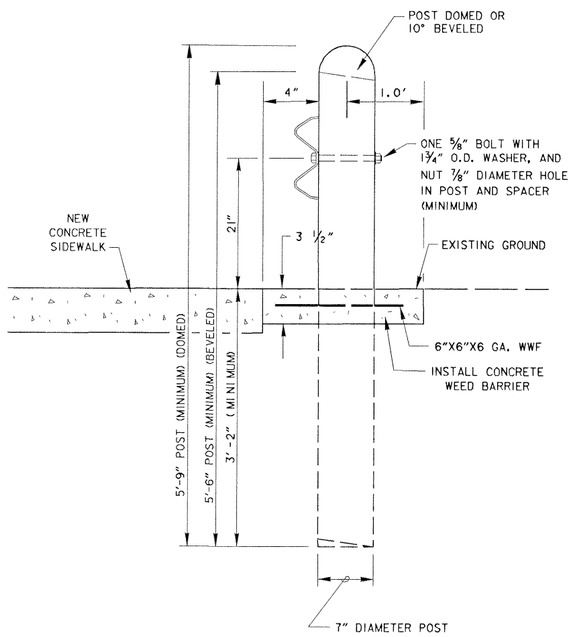
(10 GAGE MINIMUM)

NOT TO SCALE



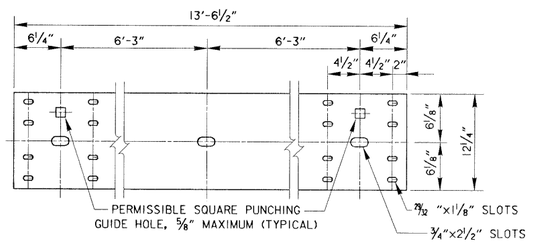
SECTION THRU GUARD RAIL AND BACK-UP PLATE

NOT TO SCALE



WOOD POST

NOT TO SCALE



ELEVATION OF NOMINAL 12 1/2 FOOT GUARD RAIL

(25 FOOT SECTIONS MAY ALSO BE SUPPLIED)

NOT TO SCALE

GENERAL NOTES

1. AT THE OPTION OF THE CONTRACTOR THE RAIL ELEMENTS FOR THE GUARD FENCE MAY BE FURNISHED IN EITHER 12'-6" OR 25 FOOT NOMINAL LENGTHS WITH POST BOLT SLOTS FOR CONNECTION TO POSTS.

2. TIMBER POST MAY BE BEVELED AT APPROXIMATELY 10 DEGREES ON THE TOP OF BOTH ENDS WITH HIGH SIDE OF TOP OF POST PLACED TOWARD THE ROADWAY OR THEY MAY BE DOMED.

3. WASHERS USED WITH THE EIGHT 5/8" SPLICE BOLTS AND NUTS THAT ARE PROVIDED FOR TERMINAL CONNECTORS AND/OR TERMINAL ANCHOR POSTS SHALL BE 1 3/4" × 3" × 3/16", OR 1" I.D. AND 2" O.D. × 0.134" (ANSI B27.2) NARROW TYPE A PLAIN WASHERS.

4. BOLTS SHALL BE OF SUFFICIENT LENGTH TO EXTEND THROUGH THE FULL THICKNESS OF THE NUT AND NO MORE THAN 3/4" BEYOND IT, (BUTTON HEAD BOLTS MAY BE USED INSTEAD OF HEX BOLTS WHEN SPECIFIED BY THE ENGINEER).

"THIS DRAWING ACCOMPANIES AMENDMENT NO. 0001 TO INVITATION NO. DACW64-02-B-0032."

REVISION	DATE	DESCRIPTION	BY
AMEND 1	8/21/02	NEW DRAWING	M.S.

OFFICE OF THE DISTRICT ENGINEER
U.S. ARMY ENGINEER DISTRICT, GALVESTON
CORPS OF ENGINEERS
GALVESTON, TEXAS

DRAWN BY: * B.H.
DESIGNED BY: * B.H.
CHECKED BY: * X
SUBMITTED BY: * C. M. CASTELLINE, P.E. CHIEF, GENERAL ENGINEERING SECTION
APPROVED: * D.B. CAMPBELL, P.E. CHIEF, ENGINEERING BRANCH

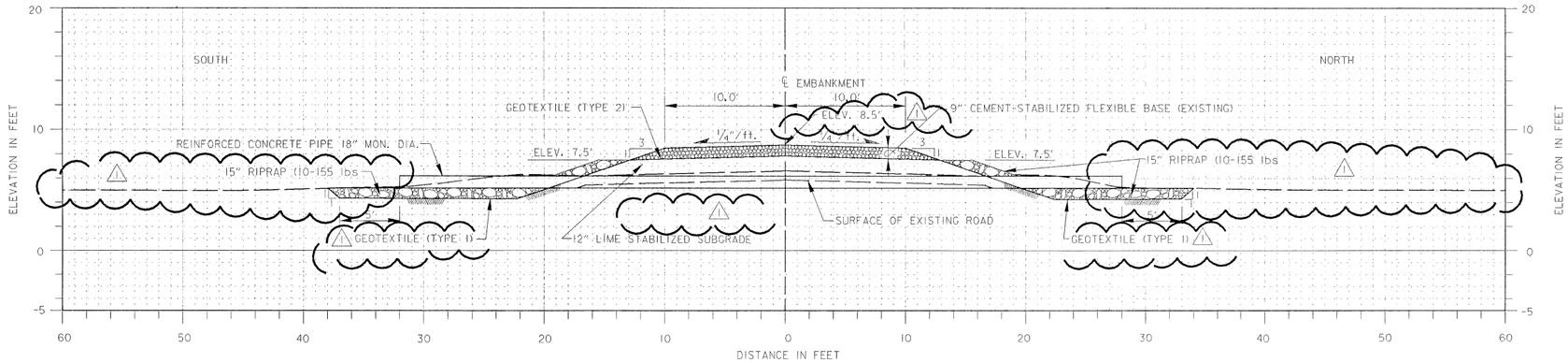
TRINITY RIVER AND TRIBUTARIES, TEXAS
WALLISVILLE LAKE, NON-OVERFLOW DAM
PUBLIC FACILITIES

METAL BEAM GUARD FENCE

APPROVED: * HARRY G. KOHLER, P.E. CHIEF, ENGINEERING AND CONSTRUCTION DIVISION
DATE: AUGUST 2002
* AS REQUIRED BY ENGINEER REGULATION NO. 1110-1-8152)
SCALE: AS SHOWN
SPEC. DATE:

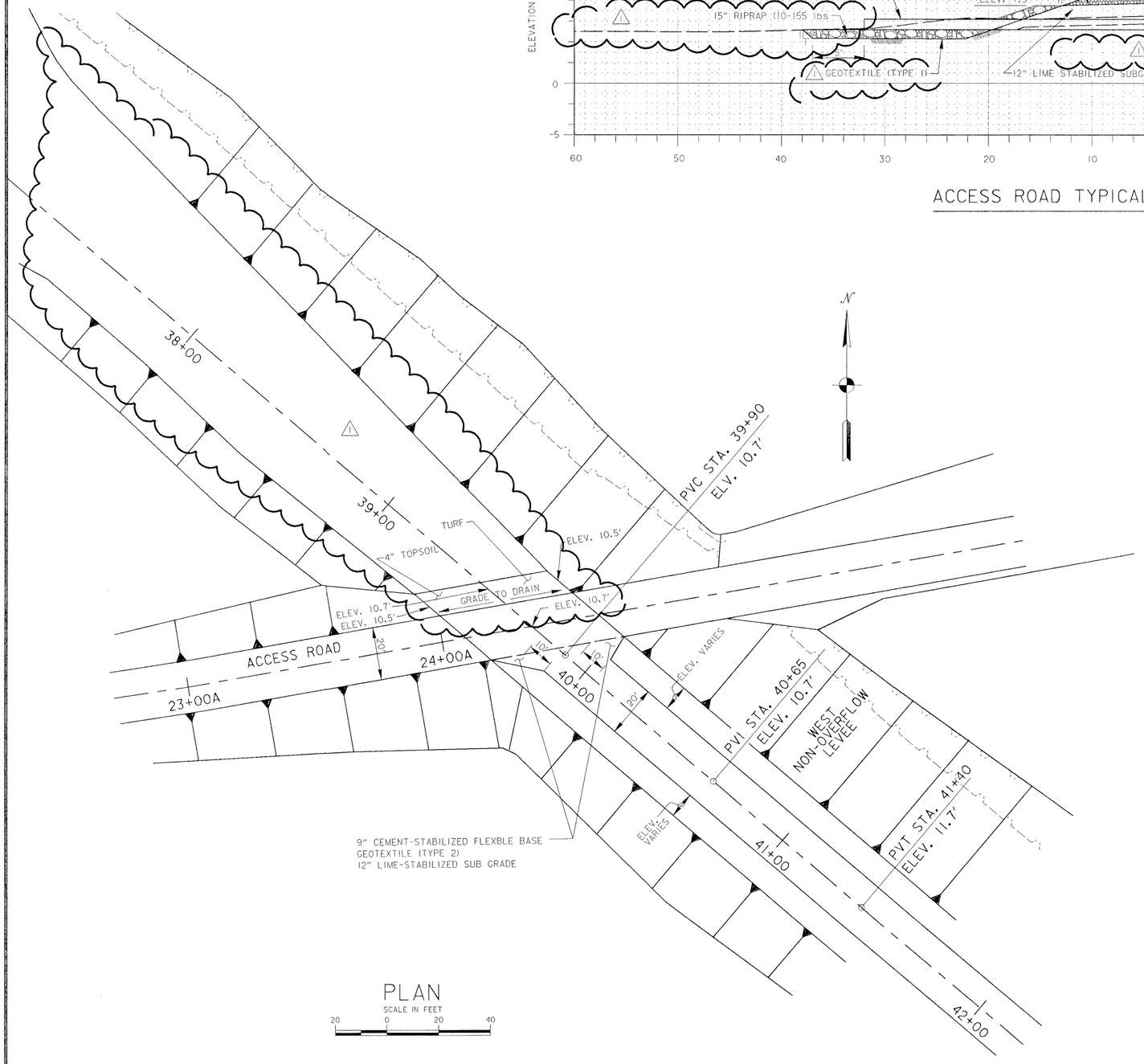
Prepared under the direction of Leonard D. Waterworth, Col., C.E., District Engineer

DRAWING NUMBER C-16
SHEET OF 35 FILE NO. TRIN 201-106



ACCESS ROAD TYPICAL FILL SECTION AT CULVERTS

SCALE: 1"=5'



PLAN

SCALE IN FEET

20 0 20 40

"THIS DRAWING ACCOMPANIES AMENDMENT NO. 0001 TO INVITATION NO. DACW64-02-B-0032."

REVISION	DATE	DESCRIPTION	BY
1 AMEND 1	8/14/02	CHANGE TEXT AND BORROW EXCAVATION	E.S.R.

OFFICE OF THE DISTRICT ENGINEER
U.S. ARMY ENGINEER DISTRICT, GALVESTON
CORPS OF ENGINEERS
GALVESTON, TEXAS

DRAWN BY: * E.S.R.
DESIGNED BY: * E.S.R.
CHECKED BY: * W.L.W.
SUBMITTED BY: * ISHAQ SYED, P.E. CHIEF, GEOTECH/STRUCTURES SECTION
APPROVED: * D.B. CAMPBELL, P.E. CHIEF, ENGINEERING BRANCH

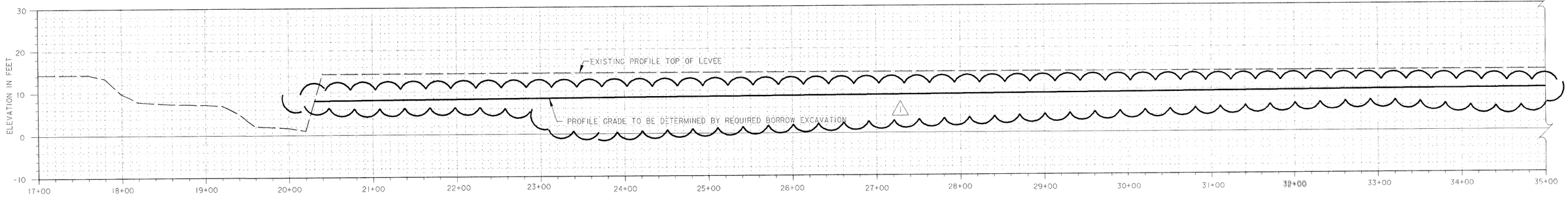
TRINITY RIVER AND TRIBUTARIES, TEXAS
WALLISVILLE LAKE, NON-OVERFLOW DAM
PUBLIC FACILITIES

INTERSECTION DETAIL
RAISE ACCESS ROAD

APPROVED: * HARRY G. KOHLER, P.E. CHIEF, ENGINEERING AND CONSTRUCTION DIVISION
DATE: AUGUST 2002
* AS REQUIRED BY ENGINEER REGULATION NO. 1110-1-8152
SCALE: AS SHOWN
SPEC. DATE:

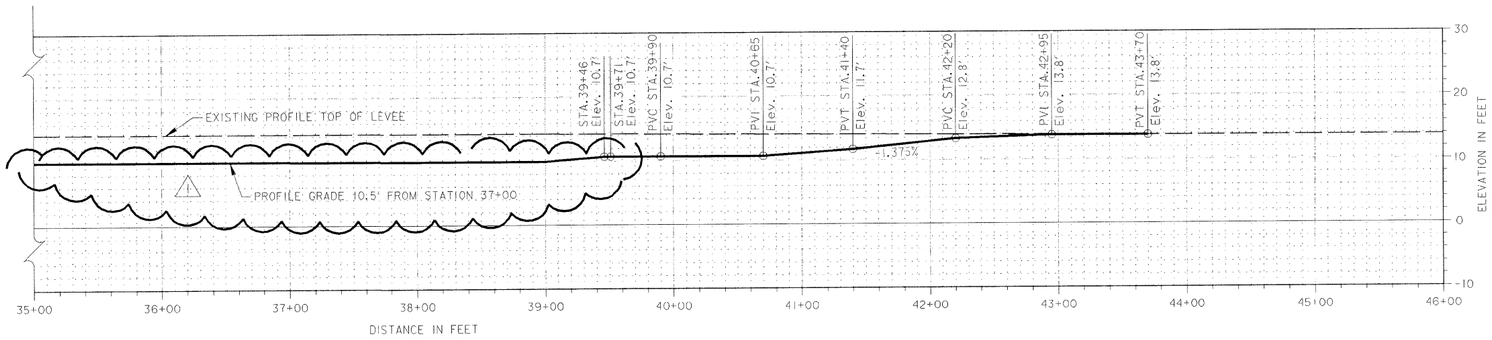
Prepared under the direction of Leonard D. Waterworth, Col., C.E., District Engineer

DRAWING NUMBER F-4
SHEET 20 OF 35 FILE NO. TRIN 201-106



LEVEE PROFILE

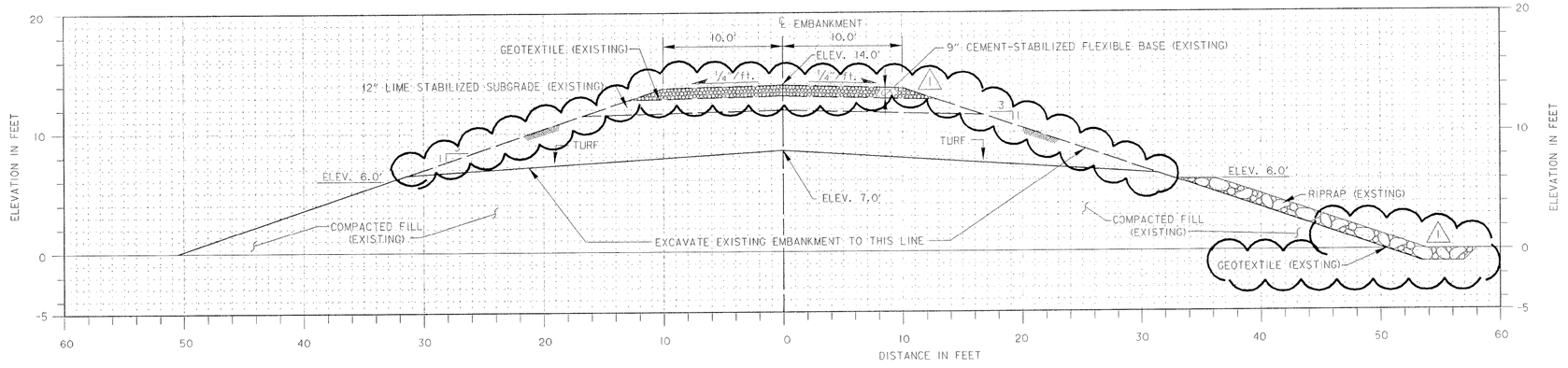
SCALE: VER. 1"=10' HOR. 2"=100'



CONTINUATION LEVEE PROFILE

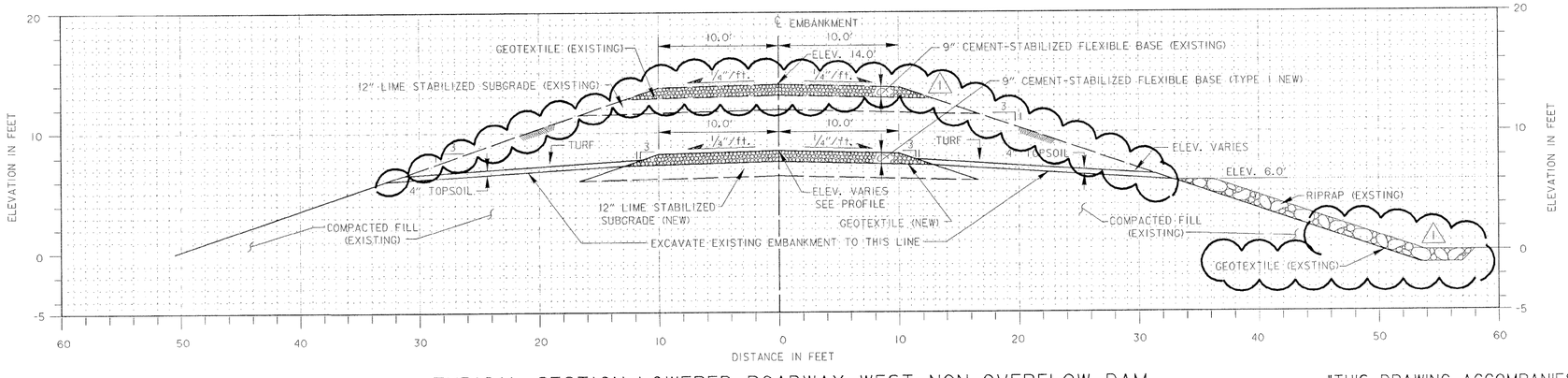
SCALE: VER. 1"=10' HOR. 2"=100'

NOTE: FINAL PROFILE OF TOP OF LEVEE IS DEPENDENT ON AMOUNT OF MATERIAL REMOVED FROM EXISTING LEVEE DURING CONSTRUCTION. TOP OF LOWERED LEVEE FROM BORROW EXCAVATION WILL BE ELEV. +10.5' UPSTATION OF STATION 37+00. TOP OF LOWERED LEVEE DOWNSTATION OF STATION 37+00 WILL BE BELOW ELEVATION 10.5' AND WILL BE DETERMINED BY REQUIRED BORROW EXCAVATION. CEMENT-STABILIZED FLEXIBLE BASE FROM THE EXISTING LEVEE WILL NOT BE USED AS BORROW FOR COMPACTED FILL AND WILL BE PLACED IN AN ON-SITE DISPOSAL AREA DESIGNATED BE THE CONTRACTING OFFICER.



TYPICAL SECTION-LOWERED WEST NON-OVERFLOW DAM AFTER BORROW

SCALE: 2"=10'



TYPICAL SECTION-LOWERED ROADWAY WEST NON-OVERFLOW DAM

SCALE: 2"=10'

"THIS DRAWING ACCOMPANIES AMENDMENT NO. 0001 TO INVITATION NO. DACW64-02-B-0032."

NOTE:

ALL ELEVATIONS SHOWN ARE REFERENCED TO NATIONAL GEODETIC VERTICAL DATUM OF 1929 (N.G.V.D.) (1978 ADJUSTED).

REVISION	DATE	DESCRIPTION	BY
AMEND 1	8/14/02	CHANGE TEXT AND RIPRAP AT END AND PROFILE GRADE AND LINE OF EXISTING ROAD	E.S.R.

OFFICE OF THE DISTRICT ENGINEER
U.S. ARMY ENGINEER DISTRICT, GALVESTON
CORPS OF ENGINEERS
GALVESTON, TEXAS

DRAWN BY: * E.S.R.
DESIGNED BY: * E.S.R.
CHECKED BY: * W.L.W.
SUBMITTED BY: * ISHAQ SYED, P.E. CHIEF, GEOTECH/STRUCTURES SECTION
APPROVED: * D.B. CAMPBELL, P.E. CHIEF, ENGINEERING BRANCH
* AS REQUIRED BY ENGINEER REGULATION NO. 1110-1-8152.)

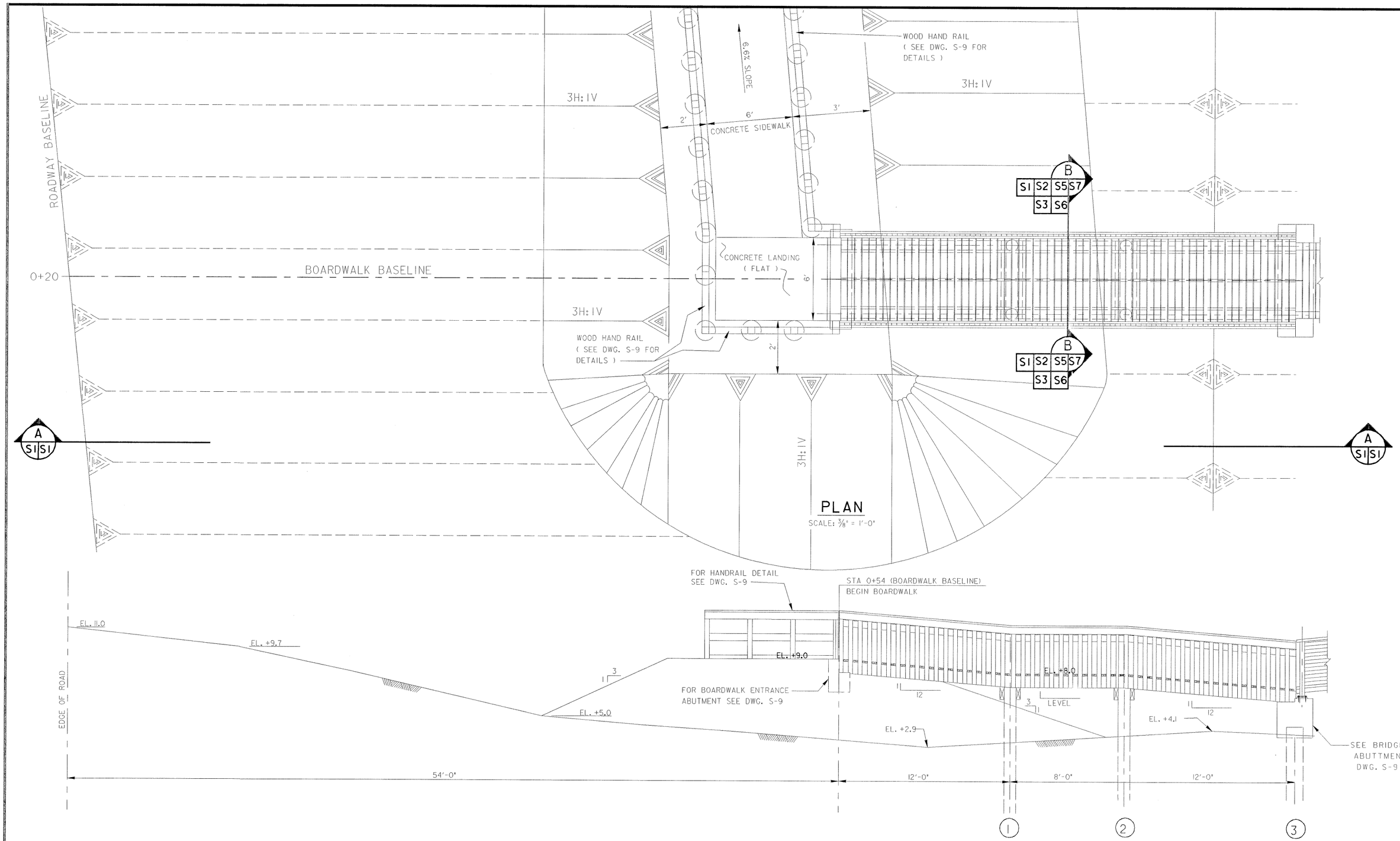
TRINITY RIVER AND TRIBUTARIES, TEXAS
WALLISVILLE LAKE, NON-OVERFLOW DAM
PUBLIC FACILITIES

PROFILE AND TYPICAL SECTIONS
RAISE ACCESS ROAD

APPROVED: * HARRY G. KOHLER, P.E. CHIEF, ENGINEERING AND CONSTRUCTION DIVISION
DATE: AUGUST 2002
SCALE: AS SHOWN
SPEC. DATE:

Prepared under the direction of Leonard O. Waterworth, Col., C.E., District Engineer

DRAWING NUMBER
F-6
SHEET 22 OF 35 FILE NO: TRIN 201-106



NOTES:

1. EXACT BOARDWALK PLATFORM LOCATIONS SHALL BE APPROVED BY THE CONTRACTING OFFICER.
2. TIMBER PILES SHALL BE A MINIMUM OF 10 INCHES IN DIAMETER, AT 3'-0" FROM BUTT, LENGTH AS SHOWN, EXCEPT FOR BENT 3,4,9,&10 SHALL BE 16" SQ. CONC. PILE.
3. STRINGERS SHALL BE BOLTED TO TIMBER PILES W/1/2"ø HOT DIP GALVANIZED CARRIAGE BOLTS AND WASHERS.
4. HANDRAIL SHALL BE NAILED W/2-16d NAILS UNLESS OTHERWISE NOTED.
5. DECKING SHALL BE NAILED W/2-16d NAILS PER SUPPORT, DECKING SHALL HAVE 1/4" MAX. SPACING.
6. ALL NAILS SHALL BE RING SHANK HOT DIP GALVANIZED.
7. NO TREES SHALL BE DAMAGED OR CUT WITHOUT APPROVAL FROM THE GOVERNMENT.
8. CONTRACTOR SHALL USE SPECIALIZED EQUIPMENT TO PREVENT EXCESSIVE DAMAGE TO THE MARSH DURING BOARDWALK CONSTRUCTION.
9. PILE CAP AND CROSS BRACING SHALL BE BOLTED AS SHOWN.
10. CONTRACTOR SHALL LOCATE ALL PIPE LINES BEFORE DRIVING PILING.
11. CONCRETE PILE SHALL BE 16"X16" SQUARE

(1) INDICATES BENT NUMBER

A S1 S1 ELEVATION
SCALE: 3/8" = 1'-0"

"THIS DRAWING ACCOMPANIES AMENDMENT NO. 0001 TO INVITATION NO. DACW64-02-B-0032."

REVISION	DATE	DESCRIPTION	BY
AMEND 1	8/19/02	RE-ISSUE DRAWING	M.S.

OFFICE OF THE DISTRICT ENGINEER
U.S. ARMY ENGINEER DISTRICT, GALVESTON
CORPS OF ENGINEERS
GALVESTON, TEXAS

TRINITY RIVER AND TRIBUTARIES, TEXAS
WALLISVILLE LAKE, NON-OVERFLOW DAM
PUBLIC FACILITIES

BOARDWALK AT I-10
PLAN AND ELEVATION

DRAWN BY: * J.H.			
DESIGNED BY: * I.M.			
CHECKED BY: * I.M.			
SUBMITTED BY: * ISHAQ SYED, P.E. CHIEF, GEOTECH/STRUCTURES SECTION	APPROVED: * HARRY G. KOHLER, P.E. CHIEF, ENGINEERING AND CONSTRUCTION DIVISION	DATE: AUGUST 2002	
APPROVED: * D.B. CAMPBELL, P.E. CHIEF, ENGINEERING BRANCH	* AS REQUIRED BY ENGINEER REGULATION NO. 1110-1-8152	SCALE: AS SHOWN	SPEC. DATE:
Prepared under the direction of Leonard D. Waterworth, Col., C.E., District Engineer		DRAWING NUMBER S-1	
		SHEET 25 OF 35	FILE NO. TRIN 201-106