

AI-15958

4.

**DHS 0-4A CO#3A, DHS 0-6BC CO#26 DHS 0-9 PH2 CO#23,24
DRAINAGE DISTRICT**

Date: 06/15/2009

Submitted By: Minerva Luna, DRAINAGE DISTRICT

Department: DRAINAGE DISTRICT

Information

CAPTION

A. Request approval of Change Order No. 3A on the Contract with Ballenger Construction Company for the Construction of Levee DHS Segment 0-4A. Subject to Department of Homeland Security (DHS) concurrence.

B. Request approval of Change Order No. 26 on the Contract with SER Construction Partners, LTD. for the Construction of Levee DHS Segment 0-6BC. Subject to Department of Homeland Security (DHS) concurrence.

C. Request approval of Change Order No. 23 and No. 24 on the Contract with McAllen Construction, Inc. for the Construction of Levee DHS Segment 0-9 PH II. Subject to Department of Homeland Security (DHS) concurrence.

D. Request approval of payment of Invoices to Dannenbaum Engineering for professional engineering services in relation to the following DHS Segments:

1. DHS Segment 0-4A Invoice 4287XXD/23A/XV
2. DHS Segment 0-4A Invoice 4287XXD/24A/XV
3. DHS Segment 0-4C Invoice 4287XXD/23B/XV
4. DHS Segment 0-4C Invoice 4287XXD/24B/XV
5. DHS Segment 0-5 Invoice 441001/15/XV
6. DHS Segment 0-6A Invoice 441007/11A/XV
7. DHS Segment 0-6A Wall Invoice 441007/10B/XV
8. DHS Segment 0-6A Wall Invoice 441007/11B/XV
9. DHS Segment 0-6B Invoice 441008/11/XV
10. DHS Segment 0-6C Invoice 441009/10/XV
11. DHS Segment 0-7 Invoice 441002/14A/XV
12. DHS Segment 0-8 Invoice 441003/12/XV
13. DHS Segment 0-9 PH I Invoice 441004/14A/XV
14. DHS Segment 0-9 PH II Invoice 441004/14B/XV
15. DHS Segment 0-9A Invoice 441004/13C/XV
16. DHS Segment 0-9A Invoice 441004/14C/XV
17. DHS Segment 0-10 Invoice 441005/14A/XV
18. DHS Segment 0-10A Invoice 441005/13B/XV
19. DHS Segment 0-10A Invoice 441005/14B/XV

E. Request approval to process manual checks to Dannenbaum Engineering pending approval from County Auditor and pending the electronic transfer of funds from

Department of Homeland Security (DHS).

BACKGROUND

Fiscal Impact

Attachments

Link: [DHS 0-4A CO#3A](#)

Link: [DHS 0-6BC CO#26](#)

Link: [DHS 0-9 PH II CO#23](#)

Link: [DHS 0-9 PH II CO#24](#)

Form Routing/Status

Route Seq	Inbox	Approved By	Date	Status
1	Budget & Management	Veronica Lopez	06/10/2009 03:49 PM	APRV
2	Sylvia Solis	Sylvia Solis	06/10/2009 04:44 PM	APRV
3	Final Approval	Angela Garcia	06/11/2009 04:37 PM	APRV

Form Started By: Minerva Luna

Started On: 06/10/2009 03:06
PM

Final Approval Date: 06/11/2009

HIDALGO County Drainage District No. 1
LEVEE IMPROVEMENTS PROJECT
DHS SEGMENT 0-4A (3.91 MILES)

CHANGE ORDER NO. 3A

Date: April 17, 2009

Contractor: Ballenger Construction Co.
24200 North FM 509
Harlingen, Texas 78550

Owner: Hidalgo County Drainage District No. 1
902 N. Doolittle Road
Edinburg, Texas 78541

Reference: LEVEE IMPROVEMENTS PROJECT
DHS SEGMENT 0-4A (3.91 MILES)

Contract No. 08-023-09-30
Dannenbaum No. 4287-03

Description: Revised Retaining Wall Stem and Footing quantities.

Contract Amount:

Original Contract Price:	\$	39,809,630.95
Previous Change Order(s):	\$	38,571.45
Contract price prior to this change order:	\$	39,848,202.40
Net increase (decrease) from this change order:	\$	292,500.00
Contract price with all change orders to date (including this change order):	\$	40,140,702.40

APPROVALS:

ENGINEER:
Dannenbaum Engineering Company - McAllen, LLC

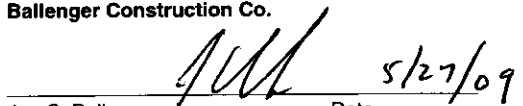

Richard D. Seitz, P.E. Date 5/27/09
Resident Project Representative

OWNER:
Hidalgo Co. Drainage Dist. No. 1

JD Salinas Date
Chairman of the Board

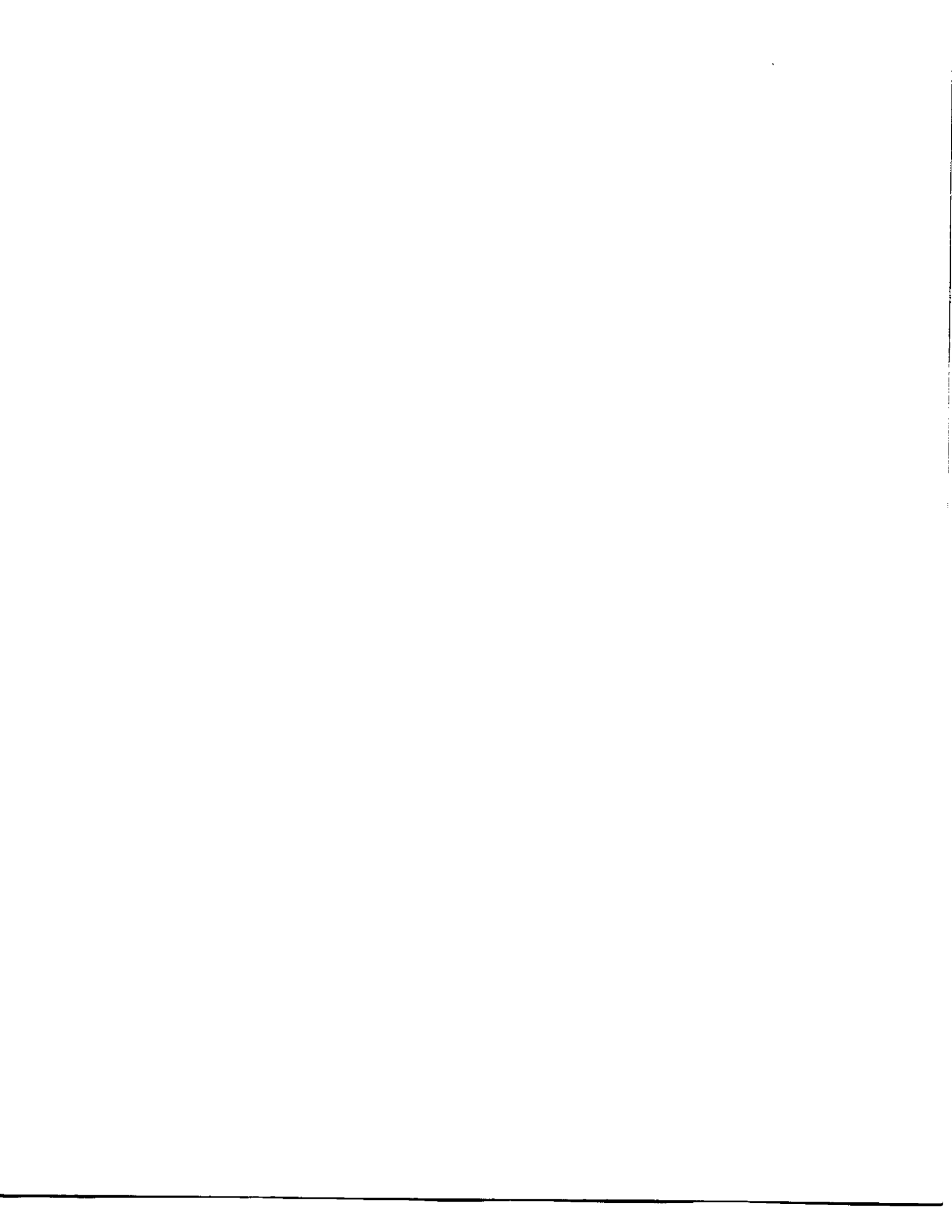
ACCEPTED:

CONTRACTOR:
Ballenger Construction Co.


Joe C. Ballenger, Jr. Date 5/27/09
President

HIDALGO COUNTY
JUN 03 2009
DRAINAGE DISTRICT #1

~~HIDALGO COUNTY
MAY 28 2009
DRAINAGE DISTRICT #1~~



HIDALGO County Drainage District No. 1
LEVEE IMPROVEMENTS PROJECT

CHANGE ORDER NO. 3A

ATTACHMENT B

Date: May 27, 2009 (Revised June 3, 2009)

Contractor: BALLENGER CONSTRUCTION CO. **Owner:** Hidalgo County Drainage District No. 1
24200 North FM 509 902 N. Doolittle Road
Harlingen, Texas 78550 Edinburg, Texas 78541

Reference: LEVEE IMPROVEMENTS PROJECT **Contract No.** 08-023-09-30
DHS SEGMENT 0-4A (3.91 MI) **Dannenbaum No.** 4287-03

ENGINEER'S EXPLANATION

DESCRIPTION OF REQUESTED CHANGE

Revised Retaining Wall Footing quantity.

JUSTIFICATION FOR CHANGE

Initial issued for bid quantity for retaining wall footing quantity was found to be incorrect during reconciliation of quantities. The actual quantity is 650 c.y.'s greater than the original bid quantity. This Change Order corrects this oversite.

ENGINEER'S JUSTIFICATION OF COST

Contractor and Engineer agreed to additional footing quantity, unit price did not change.

HIDALGO COUNTY

JUN 03 2009

DRAINAGE DISTRICT #1

HIDALGO COUNTY

JUN 03 2009

DRAINAGE DISTRICT #1



HIDALGO County Drainage District No. 1
LEVEE IMPROVEMENTS PROJECT
DHS SEGMENT 0-6B & O-6C (1.38 MILES)

CHANGE ORDER NO. 26

Date: May 28, 2009

Contractor: SER Construction Partners, Ltd.
3636 Pasadena Blvd.
Pasadena, Texas 77503

Owner: Hidalgo County Drainage District No. 1
902 N. Doolittle Road
Edinburg, Texas 78541

Reference: LEVEE IMPROVEMENTS PROJECT
DHS SEGMENT 0-6B & O-6C (1.38 MILES)

Contract No. 08-017-09-02
Dannenbaum No. 4410-08 / 4410-09

Description: Installation of pedestrian safety fence for all DHS segments.

Contract Amount:

Original Contract Price:	\$	14,197,729.40
Previous Change Order(s):	\$	169,018.14
Contract price prior to this change order:	\$	14,366,747.54
Net increase (decrease) from this change order:	\$	381,710.34
Contract price with all change orders to date (including this change order):	\$	<u>14,748,457.88</u>

Contract Time:

Authorized contract time change:	
Previous Total	0 days
This Change Order	0 days
Total to Date	<u>0</u> days

APPROVALS:

ENGINEER:
Dannenbaum Engineering Company - McAllen, LLC


Richard D. Seitz, P.E. Date 6/2/09
Resident Project Representative

OWNER:
Hidalgo Co. Drainage Dist. No. 1

JD Salinas Date
Chairman of the Board

ACCEPTED:

CONTRACTOR:
SER Construction Partners, Ltd.


Rolsbel E. Ramo Date 6/3/09
President

HIDALGO COUNTY

JUN 08 2009

DRAINAGE DISTRICT #1

~~HIDALGO COUNTY~~

~~MAY 29 2009~~

~~DRAINAGE DISTRICT #1~~

SER CONSTRUCTION PARTNERS, LTD.

Eddie Ramos
President
Office (713) 473-7900
Fax (713) 473-7919
eddie@serconstruction.net

May 20, 2009

Mr. Richard Seitz P.E.
Dannenbaum Engineering
1109 Nolana Loop, Suite 208
McAllen, TX 78504

Re: Hidalgo Levee Improvements Project DHS 0-7

Dear Sir:

Listed below is the price you requested to install approximately 23,694 lineal foot of 4' chain link fence along the levee wall. Please see below for a breakdown of pricing.

Materials and Installation of 4' Chain Link Fence:	\$326,907.00
Materials and Installation for Grounding system at posts:	\$5,000.00
Subtotal:	\$331,907.00
15% P&O:	\$49,786.05
Total Cost for installation of Fence per supplied detail:	\$381,693.05

Sincerely,



Eddie Ramos
President

HIDALGO COUNTY

JUN 08 2009

DRAINAGE DISTRICT #1

Cc: Jaime Farias EIT.

~~HIDALGO COUNTY~~

~~MAY 29 2009~~

~~DRAINAGE DISTRICT #1~~

C & C Fence Corp.

The Commercial Fence Professionals

P. O. BOX 75103
Houston, Texas 77234-5103

Phone: 713-947-9888
Fax: 713-947-9932
www.ccfence.com

Bid To: SER Construction Date: 5-19-2009

Job: North Banker Floodway Levee

Ph. _____ Fax. _____

Attn: Eddie Purchase Order: _____

C & C Fence Corp. is pleased to quote the following materials and installation as outlined below.

Install 23,694' of 4' Chainlink Fence
No Gates

\$326,907.00 - 13.80 lin ft

Materials: 9.0ga 1.2oz Zinc Coated Chainlink

2.375"	Sch 40 Line Posts	2.0 oz. Zinc Coated	
2.875"	Sch 40 End Posts	2.0 oz. " "	
2.875"	Sch 40 Pull Posts	2.0 oz. " "	
1.660"	Sch 40 Top Rail	2.0 oz. " "	
1.660"	Sch 40 Brace Rail	2.0 oz. " "	
7.0ga	Coil Spring Tension Wire	" "	

HIDALGO COUNTY

JUN 08 2009

All Materials Galvanized To Meet Or Exceed Industry Standards
Most Materials Meet LEEDS Requirements
All Domestic Materials

HIDALGO COUNTY

MAY 29 2009

DRAINAGE DISTRICT #1

NOTE: Grounding of Fence IS NOT Included

The above proposal, when accepted by C & C Fence Corp. becomes a contract between two parties and is not subject to cancellation. Property owner or General Contractor is solely responsible for locating and staking fence lines. Customer agrees to indemnify and hold harmless C & C Fence Corp. its owners, agents, employees, heirs, and assigns for any damages to any person or property due to boundary encroachment. Any alteration or deviation from above specifications involving extra cost will become an extra charge over and above the original estimate. Any verbal instructions, agreements, or promises are not valid unless written as part of this contract.

All wood used in fences allows for knots, small splits, and weather checks. C & C Fence Corp. does not know and can not state how long a fence will last.

CUSTOMER PLEASE NOTE: C & C Fence Corp. does not supply permits. Customer agrees to procure and supply at his own expense any and all permits required by any Government or political subdivisions for the work specified therein. C & C Fence Corp. is not responsible for damage to any underground lines or utilities. Customer is responsible for marking or staking such lines. Terms for payment are net upon completion unless otherwise stated below. Customer agrees that in the event payment is not made according to the terms hereof, customer shall pay interest on all unpaid amounts at the rate of 1.5% per month until payment in full is received. In case payment is not made as specified below C & C Fence Corp. reserves the right to repossess without recourse or trespass all materials not paid for according to the terms of this contract. If contract is placed with an attorney for suit or collections, customer agrees to pay all expenses and reasonable attorney fees incurred. This estimate good for _____ days.

WORKMAN'S COMP. GENERAL LIABILITY & COMMERCIAL AUTO INSURANCE CERTIFICATES PROVIDED AT NO CHARGE. WAIVER OF SUBROGATION AND/OR ADDITIONAL INSURED AVAILABLE AT A NOMINAL CHARGE.

WE PROPOSE hereby to furnish material and labor - complete in accordance with the above specifications, for the sum of: _____ dollars (\$ See Above)

TERMS:
30 Days

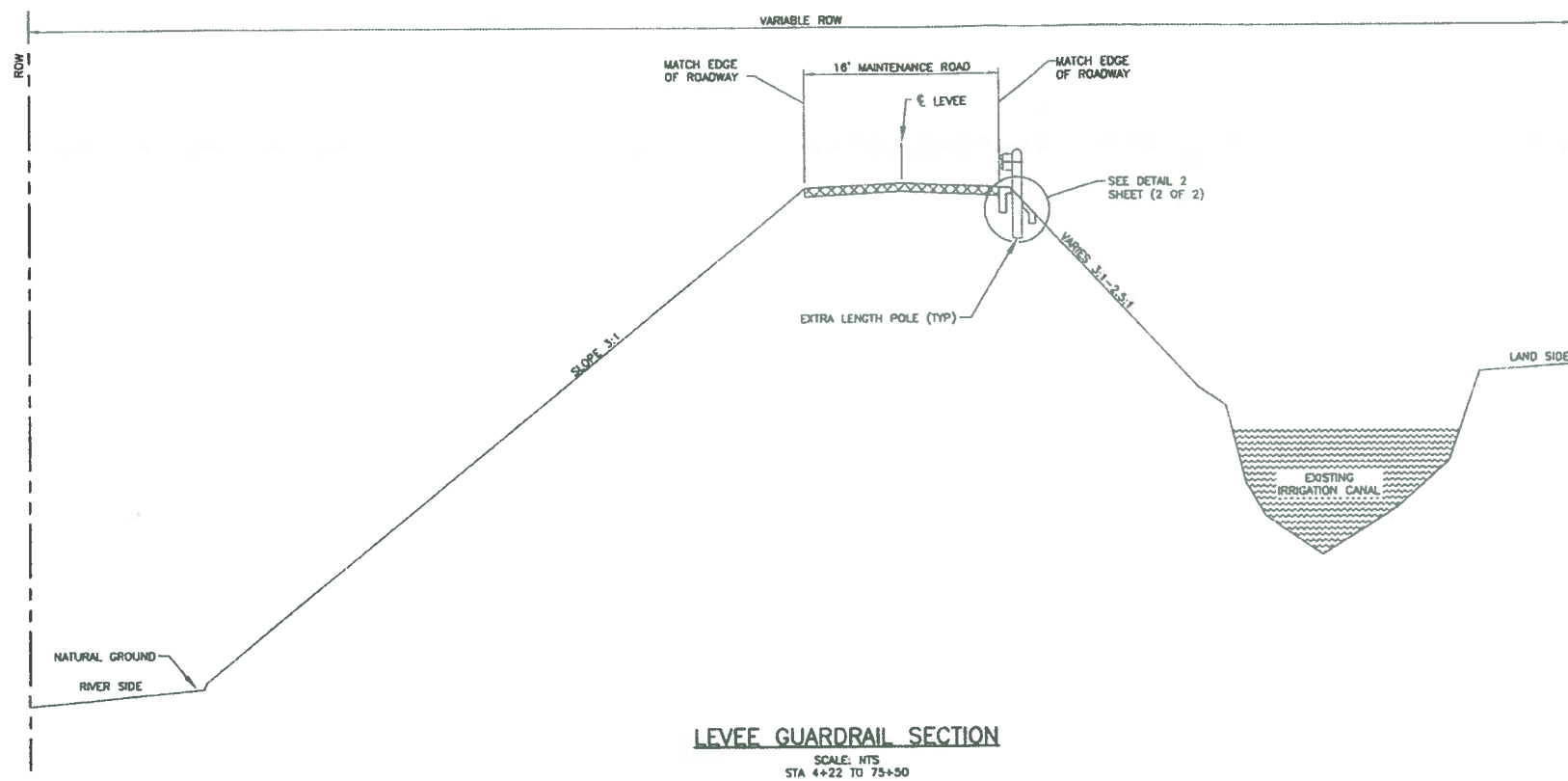
ACCEPTANCE OF PROPOSAL: The above prices, specifications and conditions are satisfactory and are hereby accepted. You are authorized to do the work as specified. Payment will be made as outlined above.

Ken Howard

CUSTOMER SIGNATURE

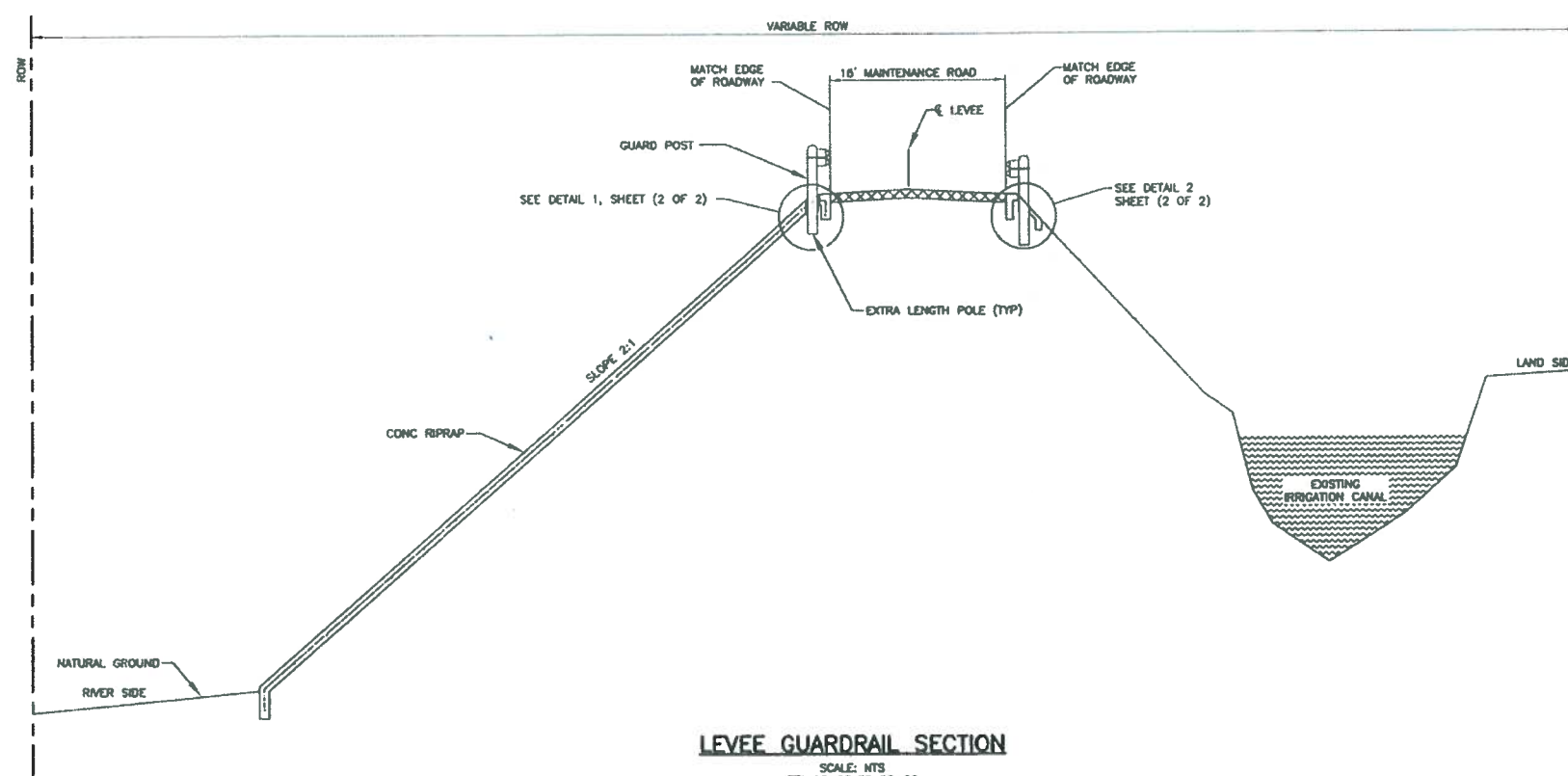
DATE OF ACCEPTANCE

SALESMAN C & C FENCE CORP.



LEVEE GUARDRAIL SECTION

SCALE: NTS
STA 4+22 TO 75+50



LEVEE GUARDRAIL SECTION

SCALE: NTS
STA 75+50 TO 88+00

Rev. No.	Description	Chk. By:	Date

NOTES:

1. PROVIDE BLOCK OUT AT EACH POST LOCATION. INSTALL POST AND BACKFILL AROUND POST TO A DEPTH OF FIVE INCHES (5") WITH COLO MIX ASPHALT.
2. REMOVE EXISTING CONCRETE AT EACH POST LOCATION. INSTALL POST AND BACKFILL AROUND POST TO A DEPTH OF FIVE INCHES (5") WITH COLO MIX ASPHALT.

Omar Anzaldue
 Omar Anzaldue, P.E.
 Licensed Professional Engineer # 97249
 5-28-09



Project: **MISSION LEVEE IMPROVEMENT PROJECT**
 BANKER WEIR TO INSPIRATION ROAD
 HCDD-1

Sheet Title:
MISCELLANEOUS METAL BEAM GUARD FENCE INSTALLATION DETAILS

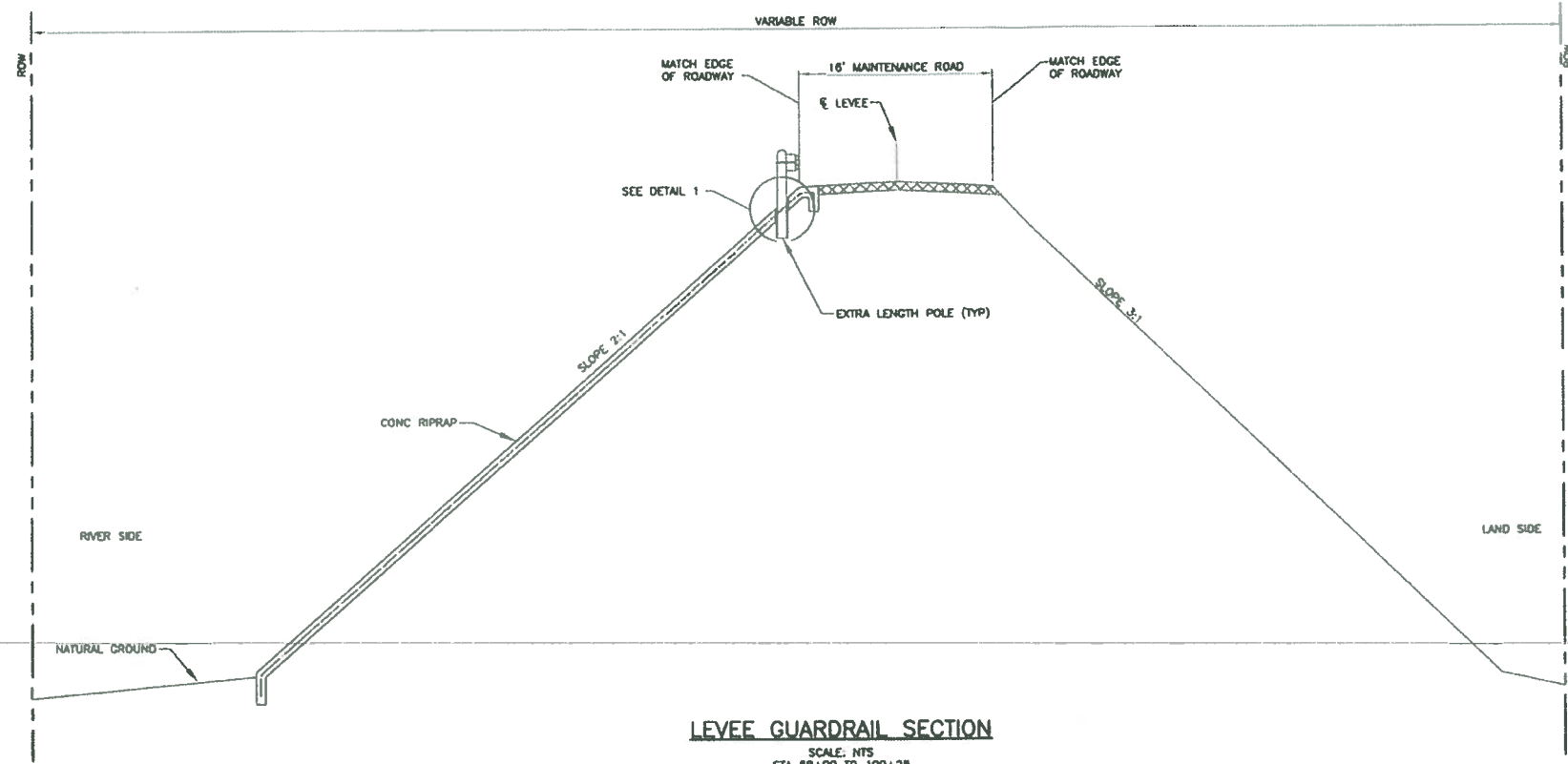
(1 OF 2)

DANNENBAUM
 ENGINEERING COMPANY-McALLEN, LLC
 1109 Nolana Loop, Suite 208 McAllen, TX 78504 (956) 682-3677

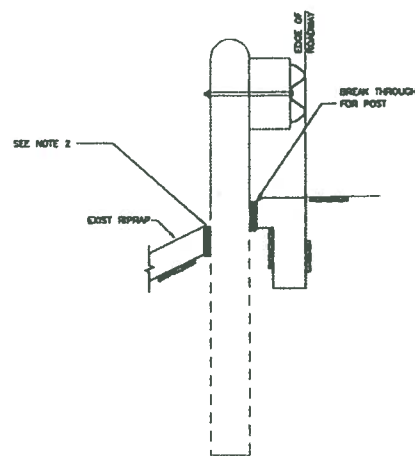
Date: May 28, 2009	Drawn By: H.R.V.
Designed By: O.A.	Checked By: R.S.
Project No.: 4287-01	Sheet 1 of 2

Rev. No.	Description	Chk. By:	Date

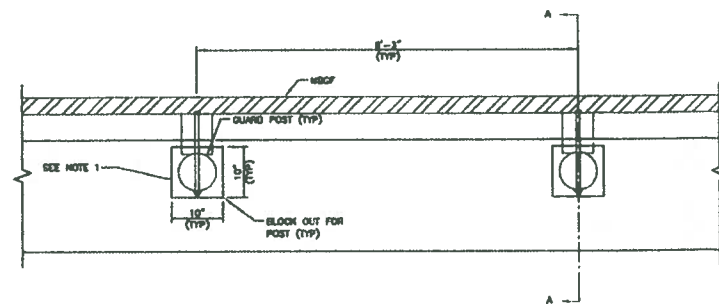
- NOTES:**
1. PROVIDE BLOCK OUT AT EACH POST LOCATION. INSTALL POST AND BACKFILL AROUND POST TO A DEPTH OF FIVE INCHES (5") WITH COLD MIX ASPHALT.
 2. REMOVE EXISTING CONCRETE AT EACH POST LOCATION. INSTALL POST AND BACKFILL AROUND POST TO A DEPTH OF FIVE INCHES (5") WITH COLD MIX ASPHALT.



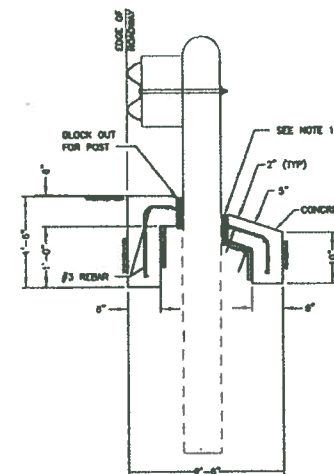
LEVEE GUARDRAIL SECTION
SCALE: NTS
STA 88+00 TO 100+25



DETAIL 1
SCALE: N.T.S.



DETAIL 2
SCALE: N.T.S.



SECTION "A-A"
SCALE: N.T.S.

Omar Anjelou, Jr.
Omar Anjelou, Jr.
Licensed Professional Engineer # 97249
5-28-09

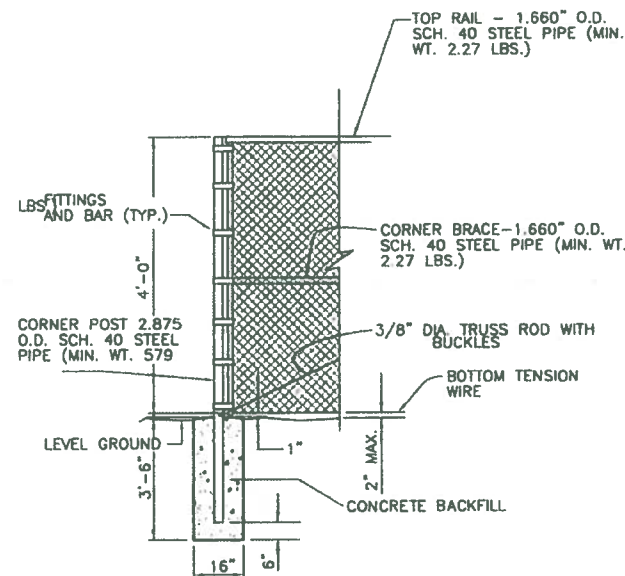
Project: **MISSION LEVEE IMPROVEMENT PROJECT BANKER WEIR TO INSPIRATION ROAD**

Sheet Title: **MISCELLANEOUS METAL BEAM GUARD FENCE INSTALLATION DETAILS**
(2 OF 2)

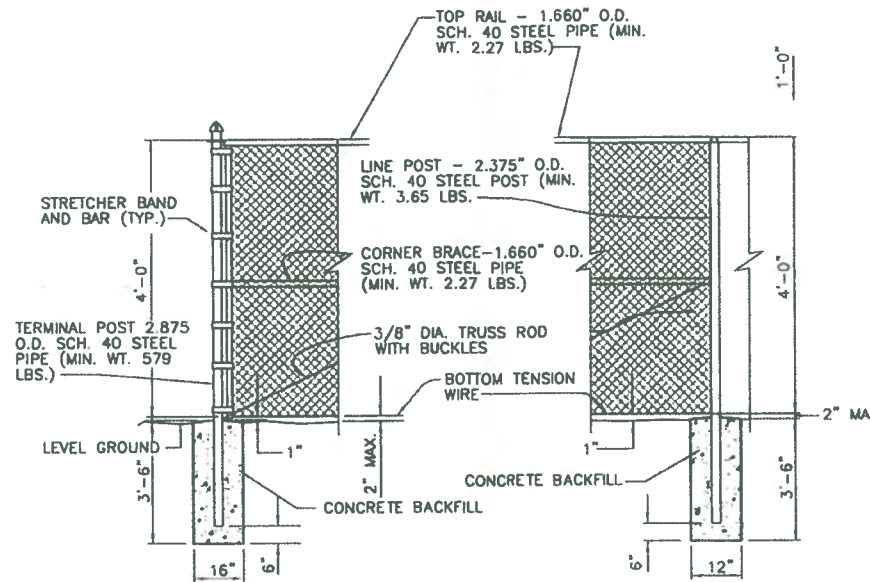
DANNENBAUM
ENGINEERING COMPANY-McALLEN, LLC
1109 Nolana Loop, Suite 208 McAllen, TX 78504 (956) 682-3877

Date: May 28, 2009	Drawn By: H.R.V.
Designed By: O.A.	Checked By: R.S.
Project No: 4287-01	Sheet: 2 of 2

G:\1540\1540-01\Eng\Drawings\Guardrail for RDE's.dwg 1:16pm



1 DETAIL
NO SCALE
CORNER POST

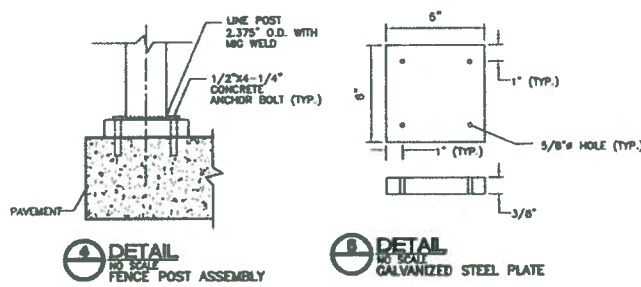


2 DETAIL
NO SCALE
TERMINAL POST

3 DETAIL
NO SCALE
LINE POST

CHAINLINK FENCE NOTES

- 1) THE FENCE FABRIC SHALL BE WOVEN WITH A NO. 9 GAUGE 1.2 OZ ZINC COATED STEEL WIRE IN A 2 BICH (50 mm) MESH AND SHALL MEET THE REQUIREMENTS OF ASTM F368, CLASS 2B.
- 2) ALL POSTS, TOP RAIL, AND BRACING FURNISHED FOR USE IN CONJUNCTION WITH ZINC COATED, ZINC-5% ALUMINUM METAL ALLOY COATED, OR ALUMINUM-COATED STEEL FABRIC SHALL BE OF ZINC-COATED STEEL, ZINC/POLYMER-COATED STEEL, ZINC-5% ALUMINUM METAL ALLOY COATED STEEL FRAMEWORK, OR COMPOSITE POSTS. THOSE FURNISHED FOR USE IN CONJUNCTION WITH ALUMINUM ALLOY FABRIC SHALL BE ALUMINUM ALLOY.
- 3) LINE POSTS, RAILS, AND BRACES SHALL BE ZINC/POLYMER-COATED STEEL PIPE CONFORMING TO THE REQUIREMENTS OF ASTM F1234-95, TYPE B WITH POLYMER COATING, PVC 10 MILS MINIMUM (COLOR BLACK).
- 4) LINE POST TO BE 2.375 INCHES O.D. SCH. 40 STEEL PIPE MINIMUM WEIGHT 3.65 LB/FT. CORNER AND PULL POSTS TO BE 2.875 INCHES O.D. SCH. 40 STEEL PIPE MINIMUM WEIGHT 5.79 LB/FT. TOP RAILS AND BRACING TO BE 1.660 INCHES O.D. SCH. 40 STEEL PIPE MINIMUM WEIGHT 2.27 LB/FT. ALL STEEL PIPE SHALL CONFORM TO ASTM A120-77, GALVANIZING IN ACCORDANCE WITH ASTM A123.
- 5) POST TO BE SPACED 10 FEET ON CENTERS (O.C.) MAXIMUM.
- 6) BOTTOM TENSION WIRE AND ALL TIES TO BE TO BE 9 GAUGE GALVANIZED.
- 7) FENCE POSTS TO BE SET IN CLASS "A" CONCRETE (3000 PSI).
- 8) STRETCHES OF FENCE MORE THAN 250 FEET IN LENGTH SHALL HAVE ONE INTERMEDIATE 2.875 BICH O.D. PULL POST WITH BRACES IN TWO DIRECTIONS FOR EVERY 250 FEET.
- 9) TRUSSED BRACING SHALL BE FURNISHED FOR EACH PANEL ADJACENT TO A TERMINAL PULL, CORNER OR GATE POST. COMPRESSION MEMBER SHALL BE 1.660-INCH O.D. PIPE, AS SPECIFIED FOR TOP RAIL MATERIAL. TENSION MEMBERS SHALL BE 3/8-INCH DIAMETER STEEL RODS WITH TURNBUCKLES.
- 10) TACK WELD ALL BOLTED CONNECTIONS.
- 11) PAINT ALL WELD'S WITH ZINC RICH PAINT.
- 12) SLEEVED EXPANSION SPRINGS SHALL BE USED ONE IN EVERY FIVE TOP RAIL BUTTED CONNECTIONS.
- 13) MISCELLANEOUS STEEL FITTINGS AND HARDWARE FOR USE WITH FENCE SHALL BE OF COMMERCIAL GRADE STEEL. ALL STEEL FITTINGS AND HARDWARE SHALL BE PROTECTED WITH ZINC COATING APPLIED IN CONFORMANCE WITH ASTM A153.
- 14) PLACE MULTI LOCK-BLOCK ON GATE AS DIRECTED BY CITY ENGINEER.
- 15) ALL STEEL BOLTS, ETC. SHALL BE GALVANIZED ASTM A-38 STEEL.
- 16) CONCRETE TO CURE 72-HOURS BEFORE INSTALLING TOP RAIL OR BRACING TO FENCE POST.
- 17) FOR METAL BEAM GUARD RAIL DETAIL SEE SHEET C41-X.



4 DETAIL
NO SCALE
FENCE POST ASSEMBLY

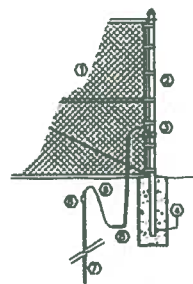
5 DETAIL
NO SCALE
GALVANIZED STEEL PLATE

NOTE: USE DETAILS 4 AND 5 WHEN MOUNTING FENCE TO TOP OF WALL.

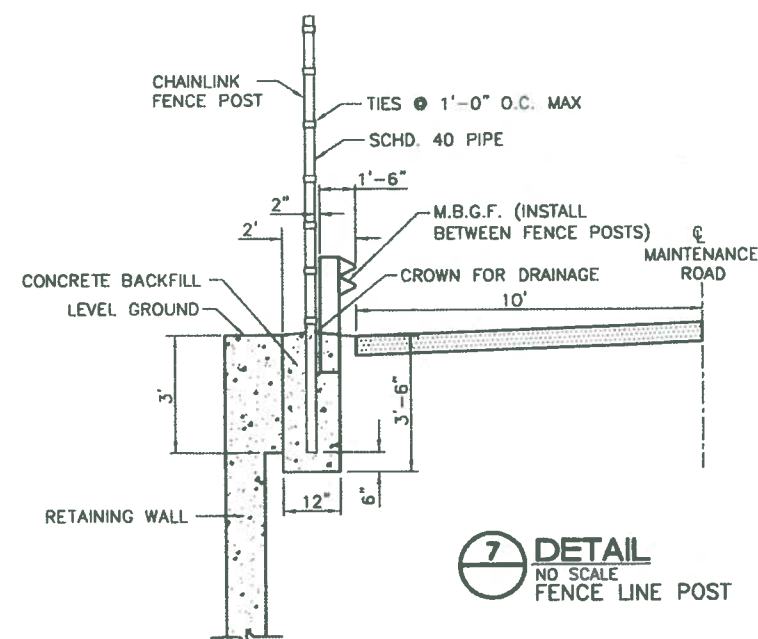
LEGEND:

- 1) FENCE FABRIC
- 2) FENCE POST
- 3) GROUND CLAMP TO BE A 3" U-BOLT CLAMP EDGE PCB38 AS MANUFACTURED BY BONDED LIGHTING PROTECTION SYSTEMS, INC., HOUSTON, TEXAS (713) 888-1909
- 4) CONC. POLE BACKFILL
- 5) #8 BARE GROUND CABLE
- 6) 1/2" PVC SLEEVE FOR GROUND CABLE PROTECTION GRASS CUTTERS LOCATED ADJACENT TO FENCE FABRIC
- 7) 3/4" x 1/2" COPPERWELD GROUND ROD
- 8) CADWELD CONNECTION THARDET TYPE

NOTE 1: CADWELD CONNECTION w/ GROUND ROD SHALL HAVE 4 WRAPS OF ELECTRICAL TAPE BEFORE BURIAL.



6 DETAIL
NO SCALE
FENCE GROUNDING (AT ALL POST)



7 DETAIL
NO SCALE
FENCE LINE POST

Rev. No.	Description	Chk. By.	Date
B	ISSUED FOR CONSTRUCTION	R.S.	07-11-08



DANNENBAUM

ENGINEERING COMPANY-MCALLEN, LLC
1109 Nolana Loop, Suite 208 McAllen, TX 78504 (956) 682-3677

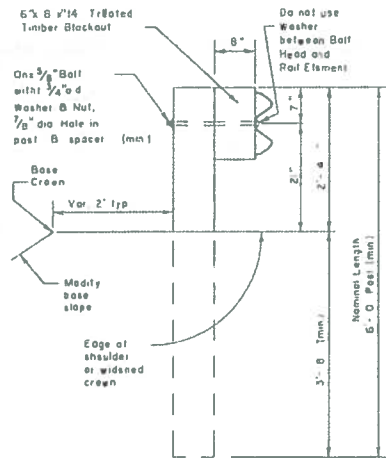
NORTH BANKER FLOODWAY LEVEE
IMPROVEMENT PROJECT
DHS PF 225: O-5

CHAINLINK FENCE
DETAILS

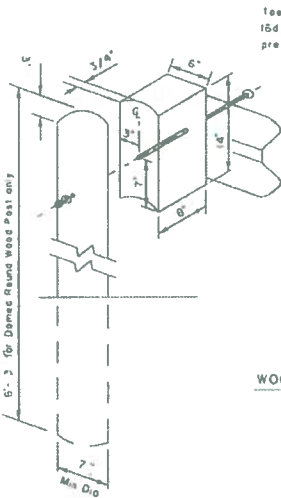


Omar Anjelov, Jr., P.E.
Date: 5-28-09

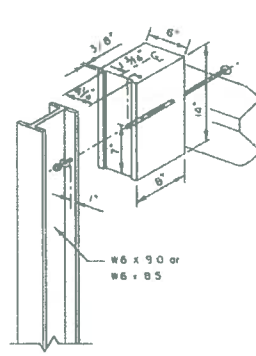
Project No.:
Designed By:
Drawn By:
Checked By:
Sheet No.:



TYPICAL POST



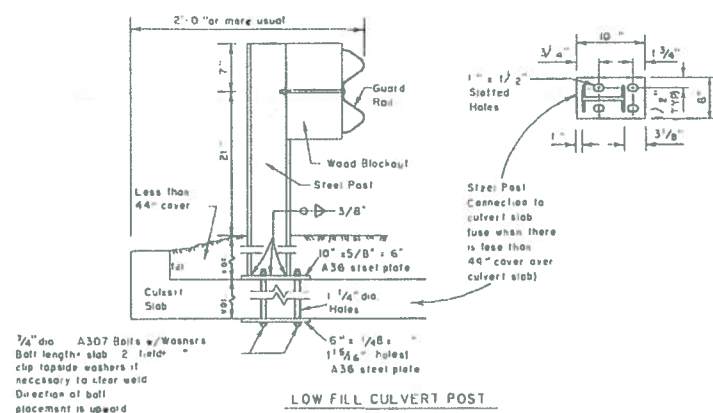
WOOD BLOCKOUT TO RECTANGULAR WOOD POST DETAIL



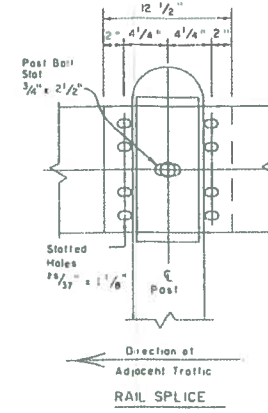
WOOD BLOCKOUT TO STEEL POST DETAIL

WOOD BLOCKOUT TO ROUND WOOD POST DETAIL

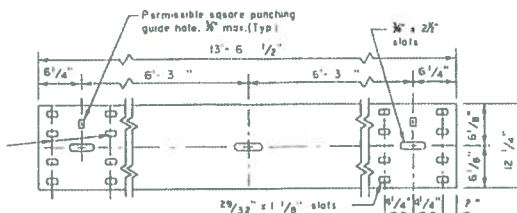
6-8\"/>



LOW FILL CULVERT POST MOUNTING OPTION



RAIL SPLICE

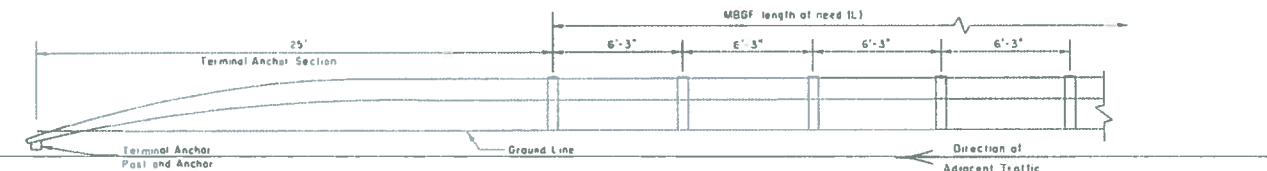


ELEVATION OF NOMINAL 12 1/2 FOOT GUARD RAIL

(25 foot sections may also be supplied)

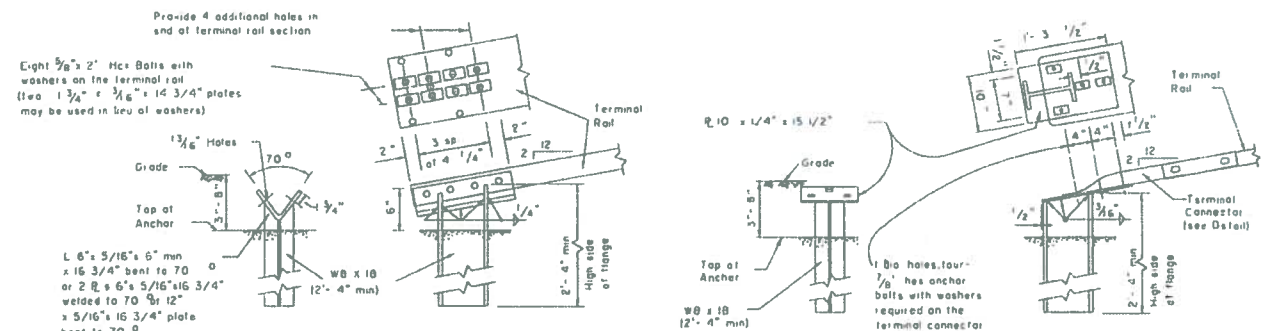
GENERAL NOTES

- The exact position of guard fence shall be as shown elsewhere on the plans or as directed by the Engineer. Guard fence shall be transitioned to a smooth connection with other guard fence or structure railing as shown elsewhere on plans.
- Rail element shall meet all requirements of AASHTO M-180 except as modified on the plans. The terminal connectors shall be of the same material, but shall not be less than 10 gauge.
- Unless otherwise shown in the plans, guard fence placed in the vicinity of curbs shall be blocked out so that the face of curb is located directly below or behind the face of the blockout. Rail placed over curbs shall be installed so that the post ball is located approximately 21-inches above the gutter pan or roadway surface.
- Unless otherwise shown in the plans, MBSF shall be placed with the face of rail directly above the shoulder edge for curbside except for upstream end treatments.
- At the option of the Contractor, the rail elements for the guard fence may be furnished in either 12 1/2 or 25 foot nominal lengths with post ball slots for connection to posts.
- The terminal anchor post shall be set in Class \"A\" concrete (unless otherwise shown on plans) in accordance with Item, \"Pavement Concrete\". Concrete shall be subsidiary to the bid-item requiring construction of the terminal rail section and anchorage system.
- An anchor other than to a terminal anchor post shall consist of a connection similar to the rail splice or similar to the terminal connector.
- Galvanized washers used with the 5/8\"/>

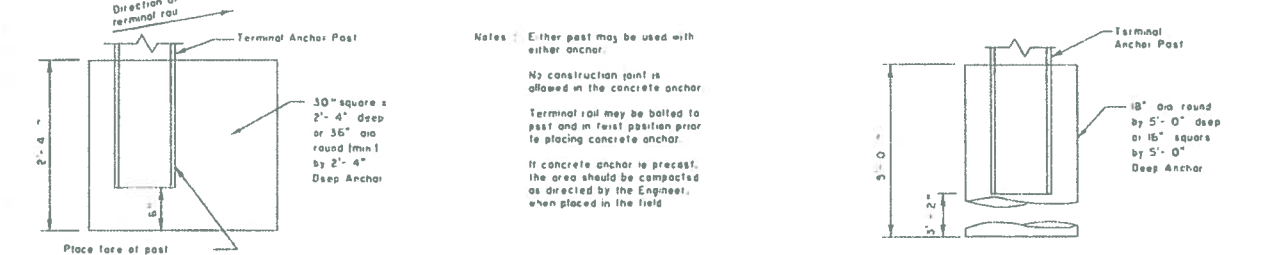


ELEVATION FOR TERMINAL ANCHOR SECTION

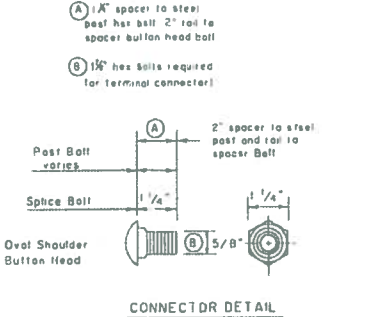
(Terminal anchor sections are only for downstream guardrail end anchorage usage outside the horizontal clearance area of opposing traffic)



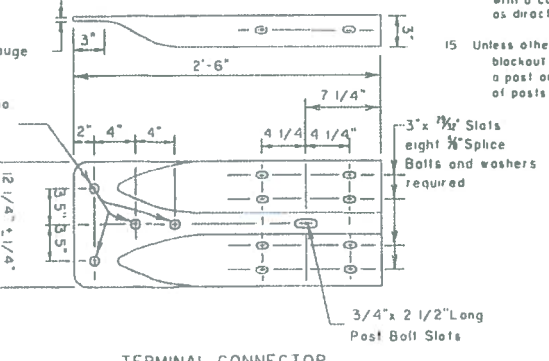
TERMINAL ANCHOR POST OPTIONS



TERMINAL CONCRETE ANCHOR OPTIONS



CONNECTOR DETAIL



TERMINAL CONNECTOR

Texas Department of Transportation
Design Division (Roadway)

Rev. No.	Description	Chk. By.	Date
B	ISSUED FOR CONSTRUCTION	R.S.	07-11-08

DANNENBAUM
ENGINEERING COMPANY-MCALLEN, LLC
1109 Nolana Loop, Suite 208 McAllen, TX 78504 (956) 682-3677

NORTH BANKER FLOODWAY LEVEE
IMPROVEMENT PROJECT
DHS PF 225-0-5

METAL BEAM GUARD RAIL
DETAILS
STA. 0+00.00 TO 93+00.00

SHEET (1 OF 1)

Project No.: 4410-01
Designed By: O.A.
Drawn By: H.R.V.
Checked By: R.S.
Sheet No.: C04-07

Omar Anzaldúa
Omar Anzaldúa, P.E.
Date: 5-29-09

G:\1340\287-1X\Lines D-S\Drawings\METAL BEAM GUARD RAIL.dwg, 05/29/09, 2:30pm, Revised By: JMM, RVT

HIDALGO COUNTY DRAINAGE DISTRICT NO. 1
LEVEE IMPROVEMENTS PROJECT

CHANGE ORDER NO. 26

ATTACHMENT B

Date: June 5, 2009

Contractor: SER CONSTRUCTION
3636 Pasadena Blvd
Pasadena, Texas 77503

Owner: Hidalgo County Drainage District No. 1
902 N. Doolittle Road
Edinburg, Texas 78541

Reference: LEVEE IMPROVEMENTS
PROJECT
DHS SEGMENT 0-6B & 0-6C (1.38
MI)

Contract No. 08-017-09-02

Dannenbaum No. 4410-08 /
4410-09

ENGINEER'S EXPLANATION

DESCRIPTION OF CHANGE

Installation of pedestrian safety fence for all DHS segments.

JUSTIFICATION FOR CHANGE

Directed by DHS and CBP to install 4' high pedestrian fence where there are no bollards in order to ensure pedestrian safety and reduce the liability of an accident. Pedestrian fence will be four feet (4') high and is sufficient to meet Americans with Disabilities Act (ADA) requirements for hike and bike trails and pedestrian safety.

ENGINEER'S JUSTIFICATION OF COST

We have reviewed Contractor supplied backup for cost incurred relating to this work and find it to be reasonable, therefore we recommended payment in the amount of \$381,710.34.

HIDALGO COUNTY
JUN 08 2009
DRAINAGE DISTRICT #1

HIDALGO County Drainage District No. 1
LEVEE IMPROVEMENTS PROJECT
DHS SEGMENT 0-9 PHASE II (1.67 MILES)

CHANGE ORDER NO. 23

Date: May 8, 2009

Contractor: McAllen Construction
4700 N Ware Rd
McAllen, Texas 78504

Owner: Hidalgo County Drainage District No. 1
902 N. Doolittle Road
Edinburg, Texas 78541

Reference: LEVEE IMPROVEMENTS PROJECT
DHS SEGMENT 0-9 PHASE II (1.67 MILES)

Contract No. 08-018-09-02
Dannenbaum No. 4410-04

Description:

Modification to bollard foundation design.

Contract Amount:

Original Contract Price:	\$	13,425,119.85
Previous Change Order(s):	\$	484,038.35
Contract price prior to this change order:	\$	13,909,158.20
Net increase (decrease) from this change order:	\$	89,507.62
Contract price with all change orders to date (including this change order):	\$	<u>13,998,665.82</u>

Contract Time:

Authorized contract time change:

Previous Total	0	days
This Change Order	0	days
Total to Date	<u>0</u>	days

APPROVALS:

ENGINEER:

Dannenbaum Engineering Company - McAllen, LLC


Richard D. Seitz, P.E. Date 5/26/09
Resident Project Representative

OWNER:

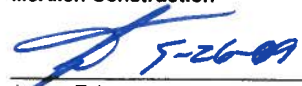
Hidalgo Co. Drainage Dist. No. 1

JD Salinas Date
Chairman of the Board

ACCEPTED:

CONTRACTOR:

McAllen Construction


James Eckroat Date 5-26-09
Vice President



HIDALGO COUNTY
MAY 27 2009
DRAINAGE DISTRICT #1

HIDALGO County Drainage District No. 1
 LEVEE IMPROVEMENTS PROJECT
 DHS SEGMENT 0-9 PHASE II (1.67 MILES)

CHANGE ORDER NO. 23

ATTACHMENT B

ENGINEER'S PRELIMINARY OPINION OF COST

Date: May 8, 2009
Contractor: McAllen Construction
4700 N Ware Rd
McAllen, Texas 78504

Contract No. 08-018-09-02
Dannenbaum No. 4410-04

Description: Modification to bollard foundation design.

COST SUMMARY

BID ITEM NO.	UNITS	ORIGINAL QNTYS		REVISED QNTYS		VARIANCE AMOUNT
		QNTYS	UNIT PRICE	QNTYS	UNIT PRICE	
33	CY	201.00	\$300.00	346.00	\$432.97	\$ 89,507.62
			\$ 60,300.00			\$ 149,807.62
GRAND TOTAL						\$ 89,507.62

HIDALGO COUNTY

MAY 27 2009

DRAINAGE DISTRICT #1

HIDALGO COUNTY DRAINAGE DISTRICT NO. 1
LEVEE IMPROVEMENTS PROJECT

CHANGE ORDER NO. 23

ATTACHMENT B

Date: May 26, 2009

Contractor: McALLEN CONSTRUCTION
4700 N WARE ROAD
McALLEN, Texas 78504

Owner: Hidalgo County Drainage District No. 1
902 N. Doolittle Road
Edinburg, Texas 78541

Reference: LEVEE IMPROVEMENTS
PROJECT
DHS SEGMENT 0-9 PH II (1.67 MI)

Contract No. 08-018-09-02
Dannenbaum No. 4410-04

ENGINEER'S EXPLANATION

DESCRIPTION OF CHANGE

Modification to bollard foundation design.

JUSTIFICATION FOR CHANGE

Original Issued for Bid documents contained a 6 foot bollard foundation wall with wire mesh reinforcement. Final soil conditions at location of these walls dictated a re-design to bollard foundation walls 10' and 8'-6" in height with bar reinforcement.

ENGINEER'S JUSTIFICATION OF COST

Engineer's Estimate was adjusted accordingly to match Contractor's offer of \$89,507.62 which was 5.84% lower than our original estimate.

HIDALGO COUNTY

MAY 27 2009

DRAINAGE DISTRICT #1

INDEX
NO. DESCRIPTION

GENERAL

G01-01 COVER SHEET
G01-02 INDEX OF SHEETS
G01-03 SYMBOLS, LEGENDS, & ABBREVIATIONS
G01-04 GENERAL NOTES

LOCATION MAPS

G02-01 PROJECT AND STAGING AREA LOCATION MAP
G02-02 BENCHMARK LOCATION MAP
G02-03 GEOTECHNICAL BOREHOLE LOCATION MAP

HORIZONTAL CONTROL DATA

G03-01 HORIZONTAL CONTROL LAYOUT AND DATA
G03-02 HORIZONTAL CONTROL LAYOUT AND DATA

IRRIGATION CANAL RELOCATION WITH 60" FRP PIPE HORIZONTAL ALIGNMENT DATA

G03A-01 HORIZONTAL CONTROL LAYOUT AND DATA

EXISTING LEVEE TYPICAL SECTIONS

C01-01 EXISTING TYPICAL SECTION (STA. 111+00.00 TO STA. 112+38.15)
(STA. 112+38.15 TO STA. 115+61.86)
(STA. 115+61.86 TO STA. 158+00.00)
C01-02 EXISTING TYPICAL SECTION (STA. 158+00.00 TO STA. 160+50.00)
(STA. 160+50.00 TO STA. 190+05.04)

PROPOSED RETAINING WALL LEVEE TYPICAL SECTIONS

C02-01 PROPOSED TYPICAL SECTION (STA. 111+00.00 TO STA. 112+38.15)
(STA. 112+38.15 TO STA. 115+61.86)
(STA. 115+61.86 TO STA. 158+00.00)
C02-02 PROPOSED TYPICAL SECTION (STA. 158+00.00 TO STA. 160+50.00)
(STA. 160+50.00 TO STA. 190+05.04)

RETAINING WALL LEVEE PLAN AND PROFILE SHEETS

C03-01 PLAN AND PROFILE (STA. 109+00.00 TO STA. 121+00.00)
C03-02 PLAN AND PROFILE (STA. 121+00.00 TO STA. 133+00.00)
C03-03 PLAN AND PROFILE (STA. 133+00.00 TO STA. 145+00.00)
C03-04 PLAN AND PROFILE (STA. 145+00.00 TO STA. 157+00.00)
C03-05 PLAN AND PROFILE (STA. 157+00.00 TO STA. 169+00.00)
C03-06 PLAN AND PROFILE (STA. 169+00.00 TO STA. 181+00.00)
C03-07 PLAN AND PROFILE (STA. 181+00.00 TO STA. 193+00.00)
C03-08 PLAN AND PROFILE (STA. 193+00.00 TO STA. 199+72.44)

IRRIGATION CANAL RELOCATION WITH 72" RCP PIPE PLAN AND PROFILE SHEETS

C03A-01 PLAN AND PROFILE (STA. 1+00.00 TO STA. 12+00.00)
C03A-02 PLAN AND PROFILE (STA. 12+00.00 TO STA. 24+00.00)
C03A-03 PLAN AND PROFILE (STA. 24+00.00 TO STA. 28+95.79)

ENLARGED VIEWS RETAINING WALL TRANSITIONS

C04-01 ENLARGED VIEW OF WEST END OF RETAINING WALL
C04-01A SECTION A-A STA. 112+37.36 TO STA. 115+63.09
C04-02 ENLARGED VIEW OF EAST END OF RETAINING WALL
C04-03 ENLARGED VIEW OF RETAINING WALL AT PROGRESO IRR. DISTRICT #5 PUMP STATION
C04-03A SECTION B-B STA. 157+12.27 TO STA. 159+35.64

RETAINING WALL LEVEE CROSS SECTIONS

C05-01 CROSS SECTIONS (STA. 111+00.00 TO STA. 119+00.00)
C05-02 CROSS SECTIONS (STA. 120+00.00 TO STA. 127+00.00)
C05-03 CROSS SECTIONS (STA. 128+00.00 TO STA. 135+00.00)
C05-04 CROSS SECTIONS (STA. 136+00.00 TO STA. 143+00.00)
C05-05 CROSS SECTIONS (STA. 144+00.00 TO STA. 151+00.00)
C05-06 CROSS SECTIONS (STA. 152+00.00 TO STA. 159+00.00)
C05-07 CROSS SECTIONS (STA. 160+00.00 TO STA. 167+00.00)
C05-08 CROSS SECTIONS (STA. 168+00.00 TO STA. 175+00.00)
C05-09 CROSS SECTIONS (STA. 176+00.00 TO STA. 183+00.00)
C05-10 CROSS SECTIONS (STA. 184+00.00 TO STA. 191+00.00)
C05-11 CROSS SECTIONS (STA. 192+00.00 TO STA. 199+00.00)

NO. DESCRIPTION

GATEWELL PLAN AND SECTION VIEW

C06-01 REMOVE EXISTING STRUCTURE STA. 113+20.00
C06-02 PROPOSED STRUCTURE STA. 113+20.00
C06-03 REMOVE EXISTING STRUCTURE STA. 114+91.15
C06-04 PROPOSED STRUCTURE STA. 114+61.00

SETTLING BASIN CONCRETE RIP RAP DETAILS

C07-01 RESERVOIR BASINS OVERALL LAYOUT

LEVEE CROSSING RAMP DETAILS

C08-01 LEVEE RAMP DETAILS (1 OF 3)
C08-02 LEVEE RAMP DETAILS (2 OF 3)
C08-03 LEVEE RAMP DETAILS (3 OF 3)

MISCELLANEOUS DETAILS

C09-01 METAL BEAM GUARD RAIL DETAILS
C09-02 CONCRETE RIPRAP DETAILS
C09-03 MISCELLANEOUS CONCRETE SHOULDER DETAILS
C09-04 CONCRETE COLLAR AND BACKFILL STRUCTURE DETAILS

RETAINING WALL UNDERDRAIN SYSTEM DETAILS

C10-01 RETAINING WALL UNDERDRAIN SYSTEM DETAILS
C10-02 RETAINING WALL UNDERDRAIN SYSTEM DETAILS

RETAINING WALL WATER STOP DETAILS

C11-01 RETAINING WALL WATER STOP DETAIL
C11-02 RETAINING WALL WATER STOP DETAIL
C11-03 RETAINING WALL WATER STOP DETAIL

IRRIGATION PIPE DETAILS

C12-01 MISCELLANEOUS REINFORCED CONCRETE PIPE DETAILS

RETAINING WALL STRUCTURAL DETAILS

S01-01 RETAINING WALL DETAILS (1 OF 2)
S01-02 RETAINING WALL DETAILS (2 OF 2)
S01-03 MISCELLANEOUS RETAINING WALL DETAILS
S01-04 REINFORCED CONCRETE PIPE THROUGH WALL DETAILS

BOLLARD DETAILS

S02-01 3'-0" TO 10'-0" BOLLARD DETAILS
S02-02 10'-0" TO 18'-0" BOLLARD DETAILS
S02-03 MISCELLANEOUS BOLLARD DETAILS (1 OF 2)
S02-04 MISCELLANEOUS BOLLARD DETAILS (2 OF 2)
S02-05 BOLLARD FOUNDATION DETAILS STA. 112+37.36 TO STA. 115+63.09 W/O PIPE CROSSING
S02-05A BOLLARD FOUNDATION DETAILS STA. 112+37.36 TO STA. 115+63.09 W/ PIPE CROSSING
S02-05B BOLLARD FOUNDATION DETAILS STA. 158+38.65 TO STA. 161+46.31 W/O PIPE CROSSING
S02-05C BOLLARD FOUNDATION DETAILS STA. 158+38.65 TO STA. 161+46.31 W/ PIPE CROSSING
S02-06 ANTI-CLIMBING FENCE

GATEWELL/IRRIGATION STRUCTURAL DETAILS

S03-01 48" GATEWELL DETAILS
S03-02 IRRIGATION GATEWELL STRUCTURE

TEXAS DEPARTMENT OF TRANSPORTATION CULVERT AND HEADWALL DETAILS

*S04-01 CONCRETE HEADWALLS WITH FLARED WINGS FOR 0° SKEW PIPE CULVERT

MECHANICAL DETAILS

M01-01 SLUICE GATE
M01-02 LADDER AND ACCESS HATCH DETAILS

STORMWATER POLLUTION PROTECTION PLANS

ECO1-01 STORMWATER POLLUTION PREVENTION DETAILS
ECO1-02 STORMWATER POLLUTION PREVENTION DETAILS
ECO1-03 STORMWATER POLLUTION PREVENTION DETAILS

THE STANDARD SHEETS IDENTIFIED BY THE SYMBOL '*' HAVE BEEN ISSUED BY ME AND ARE APPLICABLE TO THIS PROJECT.

Rev. No.	Description	Chk. By:	Date
IFC	ISSUED FOR CONSTRUCTION	R.S.	08-12-08
Δ	UPDATED SHEET INDEX	R.S.	04-17-09



DANNENBAUM
ENGINEERING COMPANY-McALLEN, LLC
1109 Nolana Loop, Suite 208 McAllen, TX 78504 (956) 682-3677

PROGRESO RIVER LEVEE
IMPROVEMENT PROJECT
DHS SECTION O-9 (PHASE II)

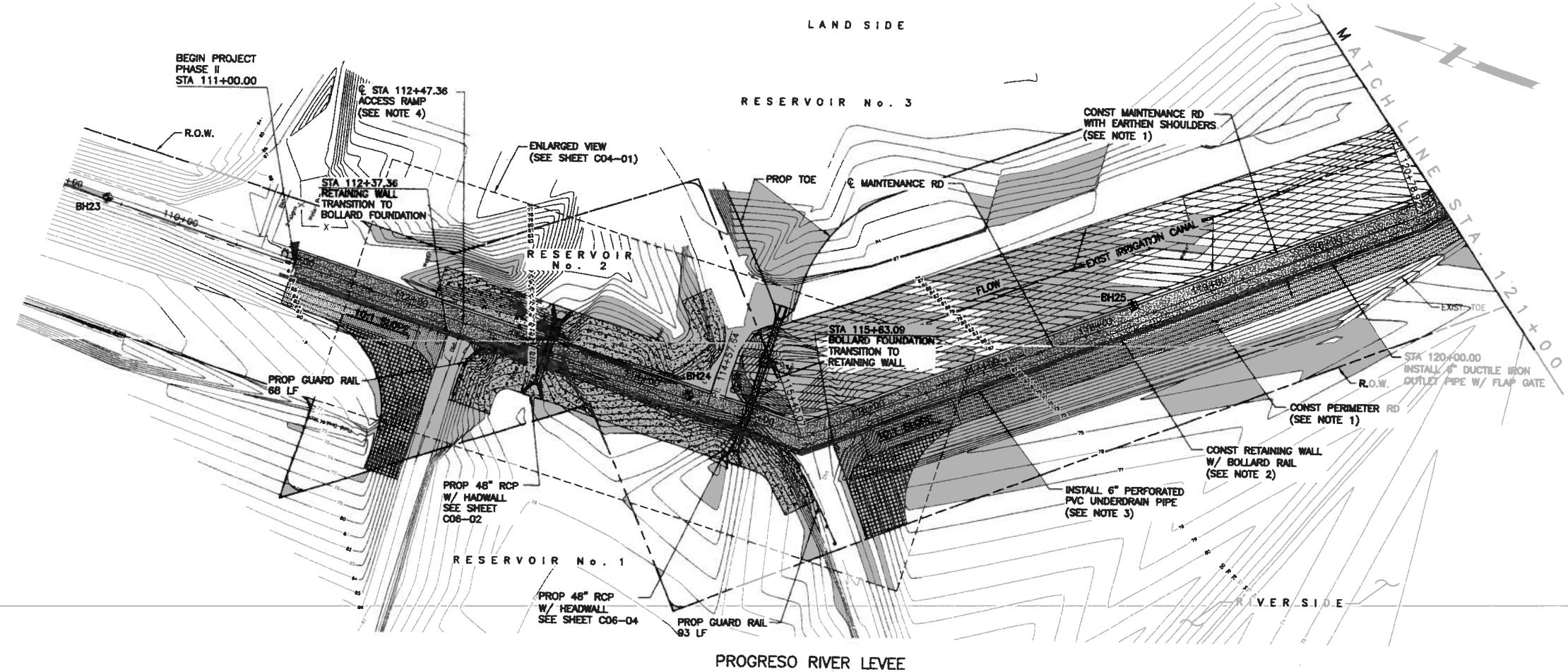
INDEX OF SHEETS

SHEET (1 OF 1)

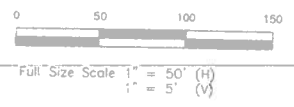
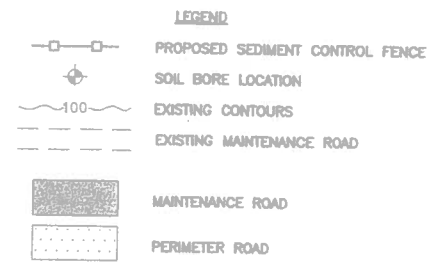


Omar Antequera, Jr., P.E.
Date: 4-22-09

Project No.:	4410-04
Designed By:	O.A.
Drawn By:	H.R., J.R., D.C.
Checked By:	R.S.
Sheet No.:	G01-02



- NOTES:**
- SEE "C02" SERIES SHEETS FOR PROPOSED TYPICAL SECTIONS.
 - SEE "S01" SERIES SHEETS FOR RETAINING WALL DETAILS.
 - SEE "C10" SERIES SHEETS FOR RETAINING WALL UNDERDRAIN SYSTEM DETAILS.
 - SEE "C08" SERIES SHEETS FOR ACCESS RAMP DETAILS.
 - SEE "S02" SERIES SHEETS FOR BOLLARD DETAILS.
 - WATER STRIKE SHOWN ON PROFILE WAS DEVELOPED BY CONNECTING WATER STRIKE ELEVATIONS SHOWN IN GEOTECHNICAL REPORT FOR THIS PROJECT AND IS PROVIDED FOR CONTRACTOR INFORMATION ONLY.
 - SHEAR KEY HEIGHT SHOWN ON PLAN AND PROFILE SHEETS IS NOT SHOWN TO ACTUAL DIMENSIONS. REFER TO RETAINING WALL DETAIL SHEETS FOR ACTUAL HEIGHT OF SHEAR KEY.



Rev. No.	Description	Chk. By:	Date
IFC	ISSUED FOR CONSTRUCTION	R.S.	08-12-08
△	REVISED BOLLARDS	R.S.	01-06-09
△	REVISE AS NOTED	R.S.	02-20-09
△	REVISE AS NOTED	R.S.	03-13-09



DANNENBAUM
 ENGINEERING COMPANY-McALLEN, LLC
 1109 Nolana Loop, Suite 208 McAllen, TX 78504 (956) 682-3677

PROGRESO RIVER LEVEE
 IMPROVEMENT PROJECT
 DHS SECTION O-9 (PHASE II)

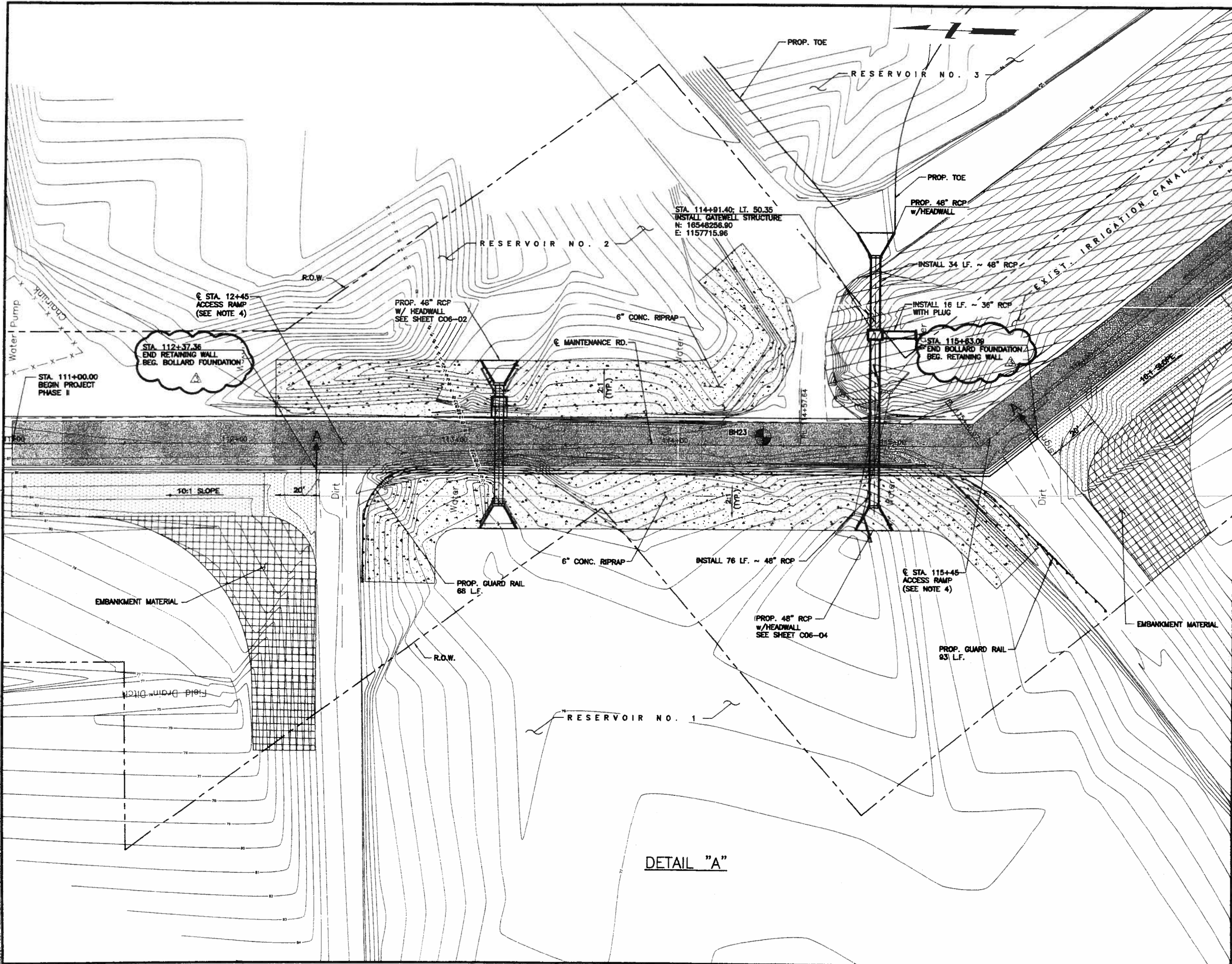
PLAN & PROFILE
 STA 109+00.00 TO STA 121+00.00

SHEET (1 OF 8)

Omar Anzaldo, Jr., P.E.
 Date: 4-21-09

Project No.:	4410-04
Designed By:	O.A.
Drawn By:	H.R.V.
Checked By:	R.S.
Sheet No.:	C03-01

G:\1540\1587-VX\Levee 0-9\FG_Plan\Revision 1\REVISION 3\PH II PAP SHEET (109+00.00 - 121+00.00)_REV03.dwg
 Plot Date: 4/21/09 10:24:00 AM
 Plotter: HP DesignJet 2450



DETAIL "A"

NOTES:

1. FOR RETAINING WALL DETAILS, SEE SHEETS ENTITLED: "RETAINING WALLS" AND "RETAINING WALLS MISCELLANEOUS DETAILS."
2. FOR MAINTENANCE RD DETAILS, SEE SHEET ENTITLED: "RETAINING WALL TYPICAL SECTIONS."
3. STONE RIPRAP SHALL BE 24" THICK, TYPE F, PER ITEM NO. 313310. SALVAGED STONE RIPRAP MEETING THIS SPECIFICATION MAY BE USE WITH THE APPROVAL OF THE RRP.
4. CALICHE SHALL BE TYPE "D", GRADE 6, CLASS 4 PER SPECIFICATION 32 71 40, ENTITLED: "CALICHE ROADWAY".
5. CONCRETE SHALL BE CLASS "B" WITH A MINIMUM COMPRESSIVE STRENGTH OF 2,000 PSI UNLESS NOTED ELSEWHERE IN PLANS.
6. REINFORCING STEEL
 - a. ALL REINFORCING STEEL SHALL BE GRADE 60.
 - b. REINFORCING BARS SHALL BE #3 AT 18" Spa c-c.
 - c. WELDED WIRE REINFORCEMENT (WWR) SHALL BE 6X6-W2.8XW2.9
 - d. COMBINATIONS OF WWR AND REINFORCING BARS MAY BE USED IF BOTH ARE PERMITTED.
 - e. LAP SPLICES SHALL BE A MINIMUM OF 6", MEASURED FROM THE TRANSVERSE WIRE OF WWR, AND THE ENDS OF REINFORCING BARS.
7. CONSTRUCTION JOINTS OR GROOVED JOINTS EXTENDING THE FULL SLANT SLOPE HEIGHT SHALL BE AT INTERVALS OF APPROXIMATELY 20 FEET UNLESS OTHERWISE DIRECTED BY THE ENGINEER.
8. UNLESS SPECIFIED ELSEWHERE IN THE PLANS TO BE ONLY REINFORCING BARS, THE RIPRAP REINFORCING MAY BE COMPOSED OF REINFORCING BARS, WELDED WIRE REINFORCEMENT (WWR), OR ANY SUITABLE COMBINATION OF BOTH TYPES.

LEGEND

PROPOSED SEDIMENT CONTROL FENCE
 SOIL BORE LOCATION
 EXISTING CONTOURS
 EXISTING MAINTENANCE ROAD
 MAINTENANCE ROAD
 PERIMETER ROAD

0 20 40 60
Full Size Scale 1" = 20' (H)

Rev. No.	Description	Chk. By:	Date
IFC	ISSUED FOR CONSTRUCTION	R.S.	08-12-08
△	REVISED RCP LOCATION	R.S.	01-06-09
△	REVISED STATIONS	R.S.	03-13-09



DANNENBAUM
ENGINEERING COMPANY-McALLEN, LLC
1109 Nolana Loop, Suite 208 McAllen, TX 78504 (956) 682-3677

PROGRESO RIVER LEVEE
IMPROVEMENT PROJECT
DHS SECTION O-9 (PHASE II)

ENLARGED VIEW OF WEST END
OF RETAINING WALL

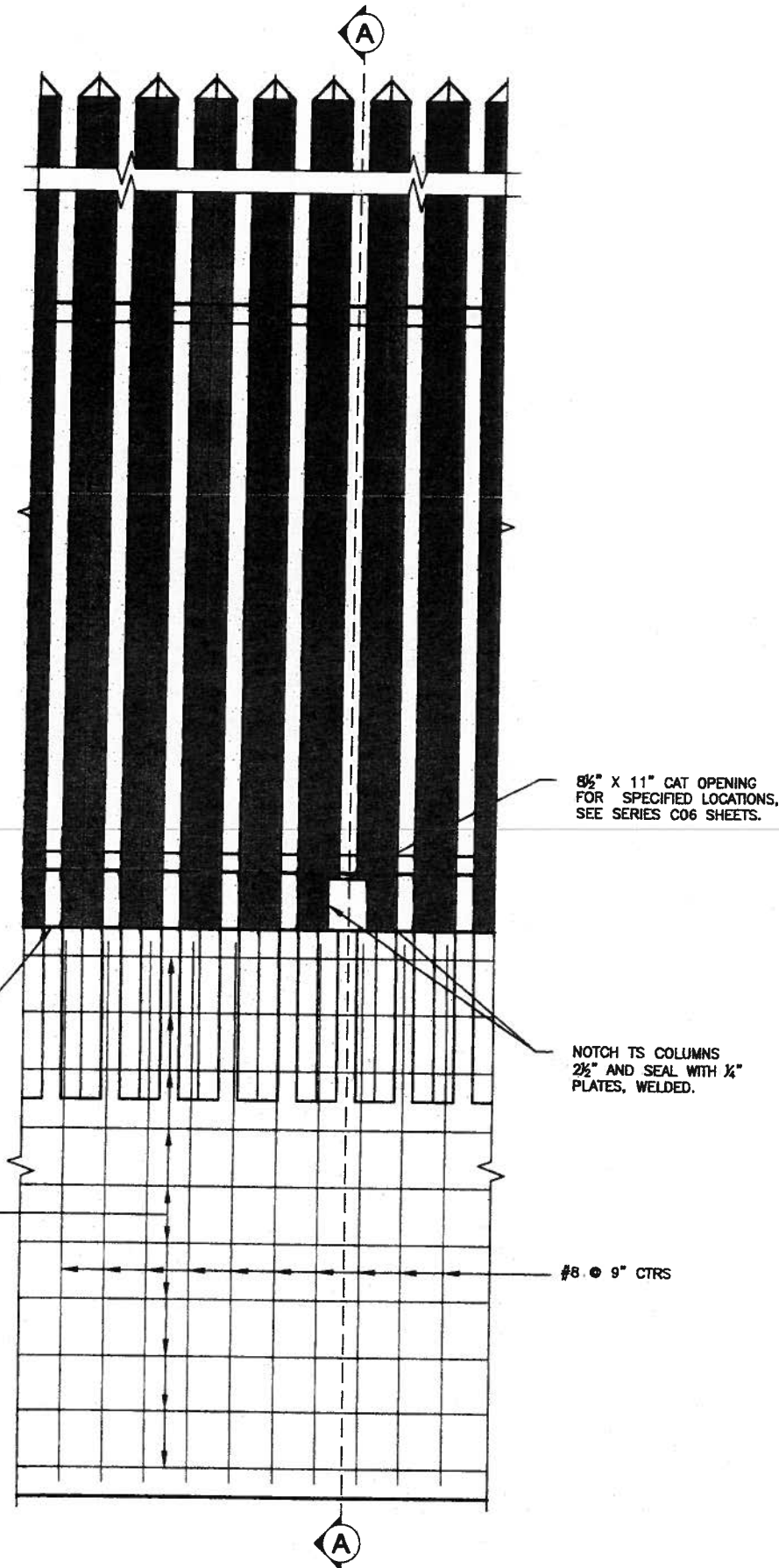
SHEET (1 OF 2)



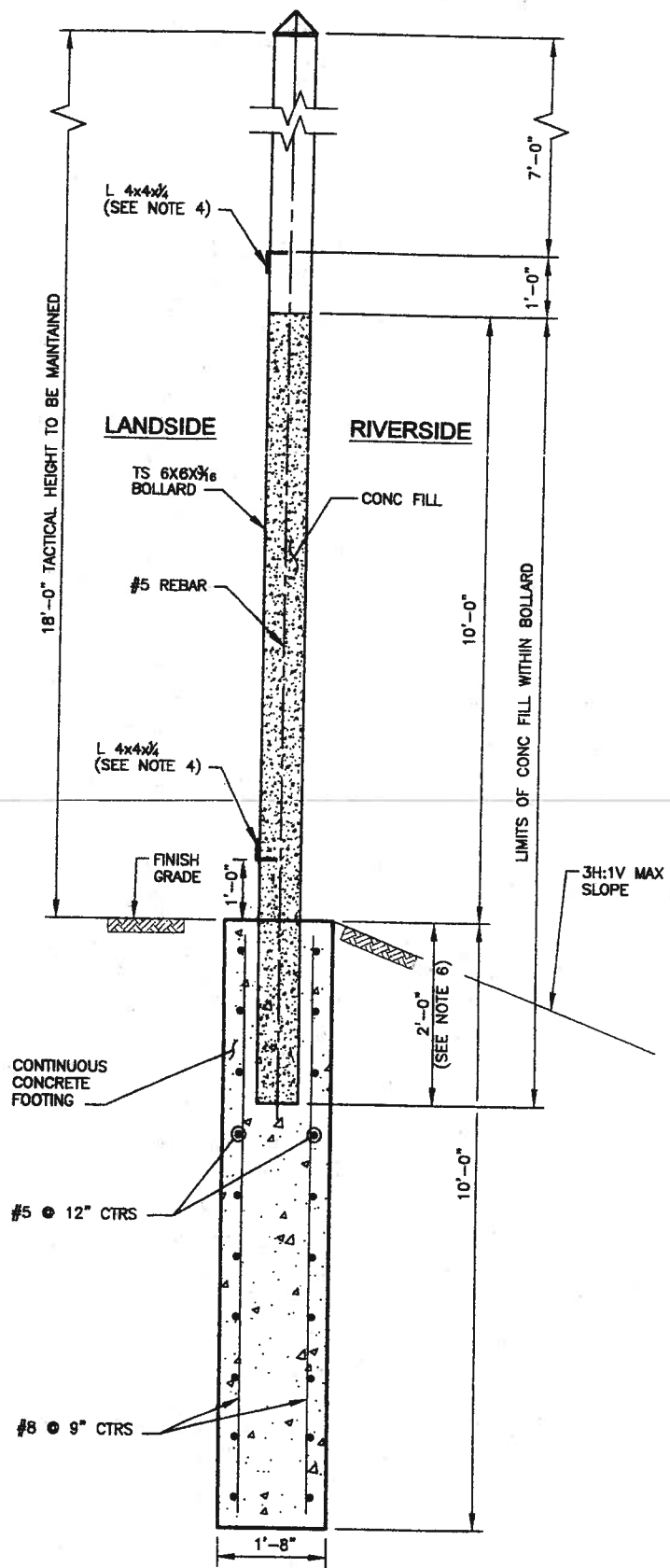
Omar Anzures, Jr., P.E.
Date: 4-22-09

Project No.:	4410-04
Designed By:	O.A.
Drawn By:	H.R., J.R., D.C.
Checked By:	R.S.
Sheet No.:	C04-01

C:\140\4287-XV\Levee 0-9\VC_Plan\PHI_BEG.DWG OF STATION DETAIL ADD1 36.dwg
 09:04:13 AM, Apr 20, 2009 - 5:56pm Plotted By: R0000024



PARTIAL ELEVATION VIEW



SECTION A-A

- NOTE:**
1. ALL CONCRETE TO BE CLASS "C", $F_c' = 3600$ PSI.
 2. ALL REINFORCING STEEL TO BE GRADE 60.
 3. ALL REINFORCING STEEL IS DIMENSIONED TO CENTER OF BAR UNLESS NOTED OTHERWISE.
 4. FOR MISCELLANEOUS BOLLARD DETAILS SEE SERIES S02-03, S02-04 SHEETS.
 5. CONTRACTOR IS TO INSTALL CONSTRUCTION / EXPANSION JOINTS ON 32'-4" CENTERS AND EXPANSION JOINTS AT 97'-0" CENTERS UNLESS NOTED OTHERWISE ON SERIES C04 DRAWINGS, AND DRAWINGS C03-01, AND C03-05.
 6. ADJACENT PANELS MAY BE STEPPED UP TO A MAXIMUM OF 1'-0" TO ACCOMMODATE VARYING TERRAIN.
 7. HORIZONTAL STEEL SHALL TRANSITION TO SPACING INDICATED AT PIPE CROSSING AS APPLICABLE.
 8. COST FOR CONCRETE FILL AND NO 5 REBAR IS INCIDENTAL TO BID ITEM FOR BOLLARD (TRANSFER FROM STAGING AREA AND INSTALL PER PLANS) AND IS NOT A SEPARATE BID ITEM.
 9. CONTRACTOR TO INSTALL CONSTRUCTION AND EXPANSION JOINTS WITHOUT WATER STOPS.

Rev. No.	Description	Chk. By:	Date
B	ISSUED FOR CONSTRUCTION	R.S.	08-12-08
A	REVISED FOUNDATION DIMS. AND STEEL REINFORCING	R.S.	04-16-09
A	REVISE AS NOTED	R.S.	04-29-09



DANNENBAUM
 ENGINEERING COMPANY-McALLEN, LLC
 1109 Nolana Loop, Suite 208 McAllen, TX 78504 (956) 682-3677

PROGRESO RIVER LEVEE
 IMPROVEMENT PROJECT
 DHS SECTION O-9 (PHASE II)

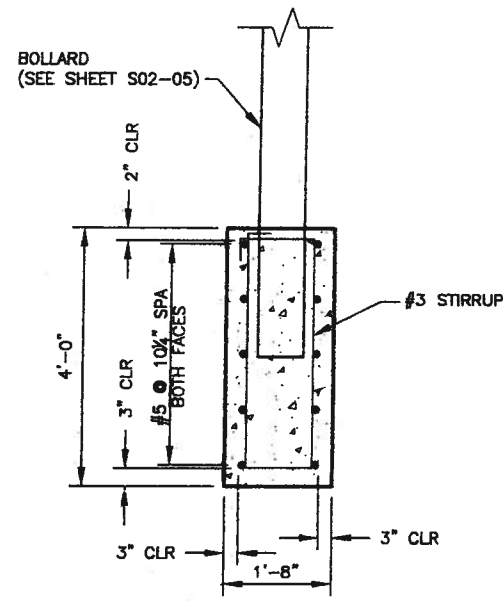
BOLLARD FOUNDATION DETAILS
 STA 112+37.36 TO STA 115+63.09
 WITHOUT PIPE CROSSING

SHEET (1 OF 1)

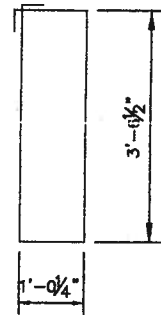
	Project No.:	4410-04
	Designed By:	W.P.C.
	Drawn By:	H.R.V.
	Checked By:	R.S.
	Sheet No.:	S02-05

Date: 4-30-09

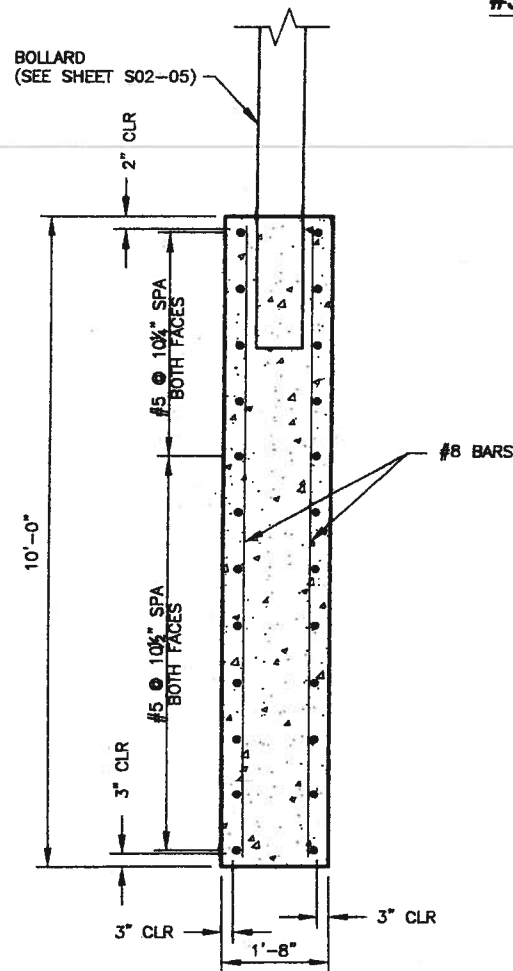
C:\1540\4297-30\Drawings\0-9\FC-PH1-STRUCTURE\Rev 2.00-PRIL-09-06_Rev2.dwg
 Date: 4/30/09 10:53 AM
 User: W.P.C.



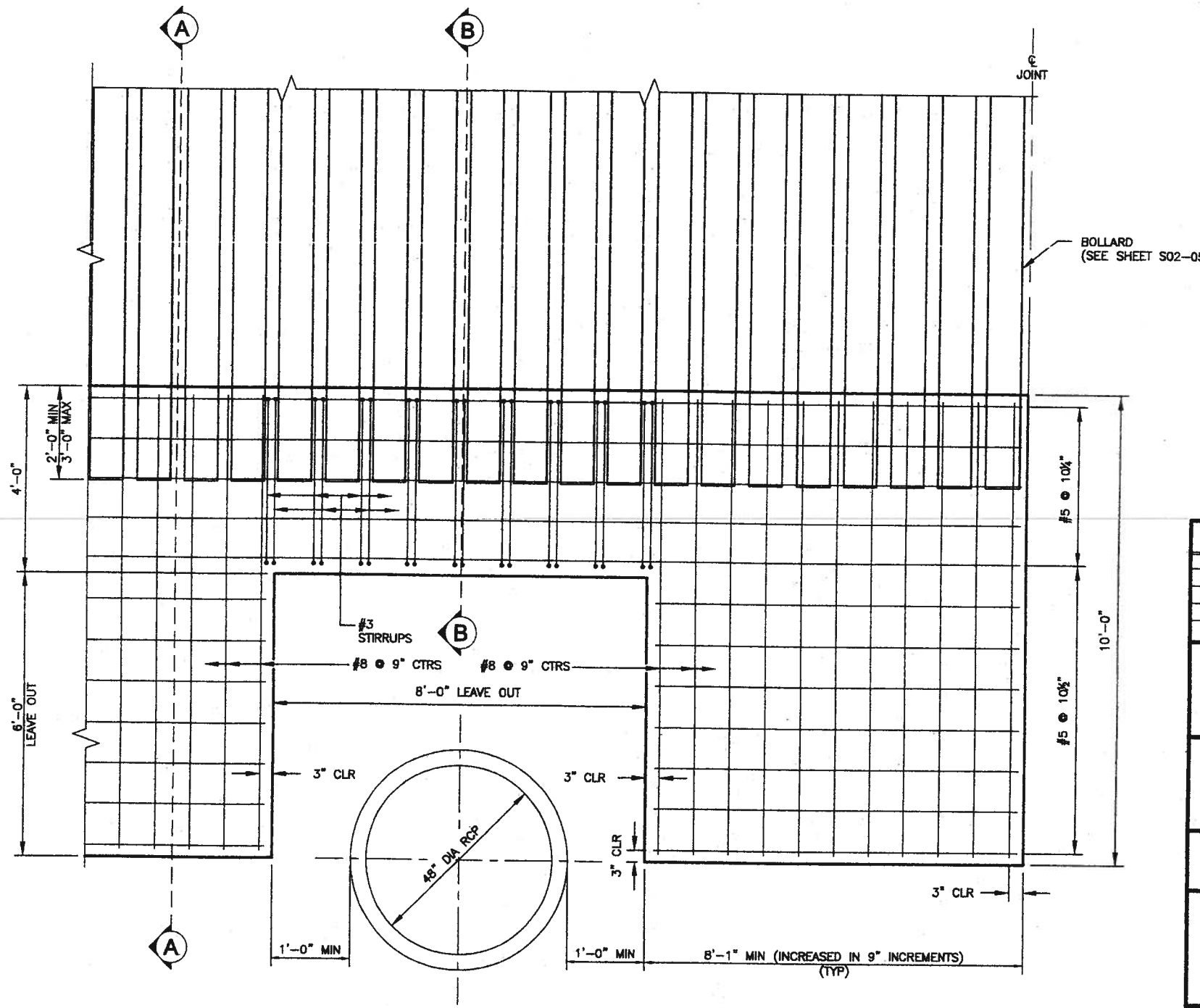
SECTION B-B



#3 STIRRUP



SECTION A-A



PARTIAL ELEVATION VIEW

NOTE:

1. ALL CONCRETE TO BE CLASS "C", $F_c=3600$ PSI.
2. ALL REINFORCING STEEL TO BE GRADE 60.
3. ALL REINFORCING STEEL IS DIMENSIONED TO CENTER OF BARS UNLESS NOTED OTHERWISE.
4. FOR MISCELLANEOUS BOLLARD DETAILS SEE SERIES S02 SHEETS.
5. HORIZONTAL STEEL MAY CONTINUE THE SAME SPACING OR MAY TRANSITION TO 12" SPACING 8'-1" BEYOND LEAVE OUT.

Rev. No.	Description	Chk. By:	Date
1FC	ISSUED FOR CONSTRUCTION	R.S.	04-16-09



DANNENBAUM
 ENGINEERING COMPANY-McALLEN, LLC
 1109 Nolana Loop, Suite 208 McAllen, TX 78504 (956) 682-3877

PROGRESO RIVER LEVEE
 IMPROVEMENT PROJECT
 DHS SECTION O-8 (PHASE II)

BOLLARD FOUNDATION DETAILS
 STA 112+37.36 TO STA 115+63.09
 WITH PIPE CROSSINGS

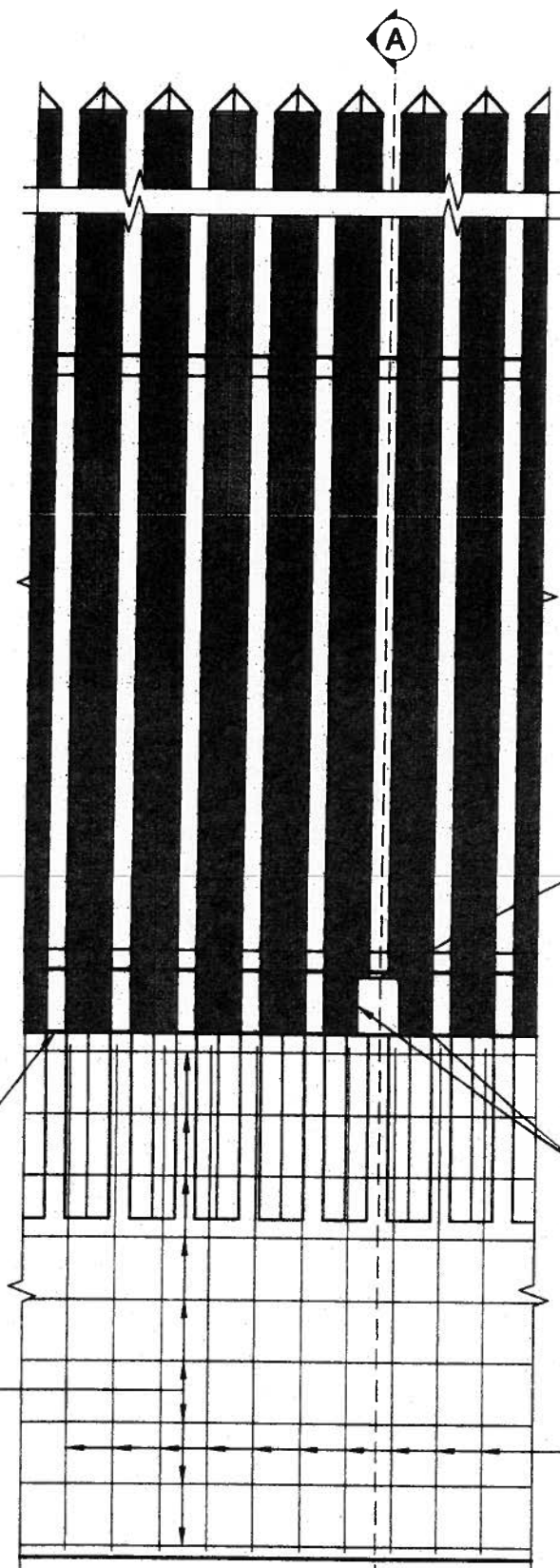
SHEET (1 OF 1)



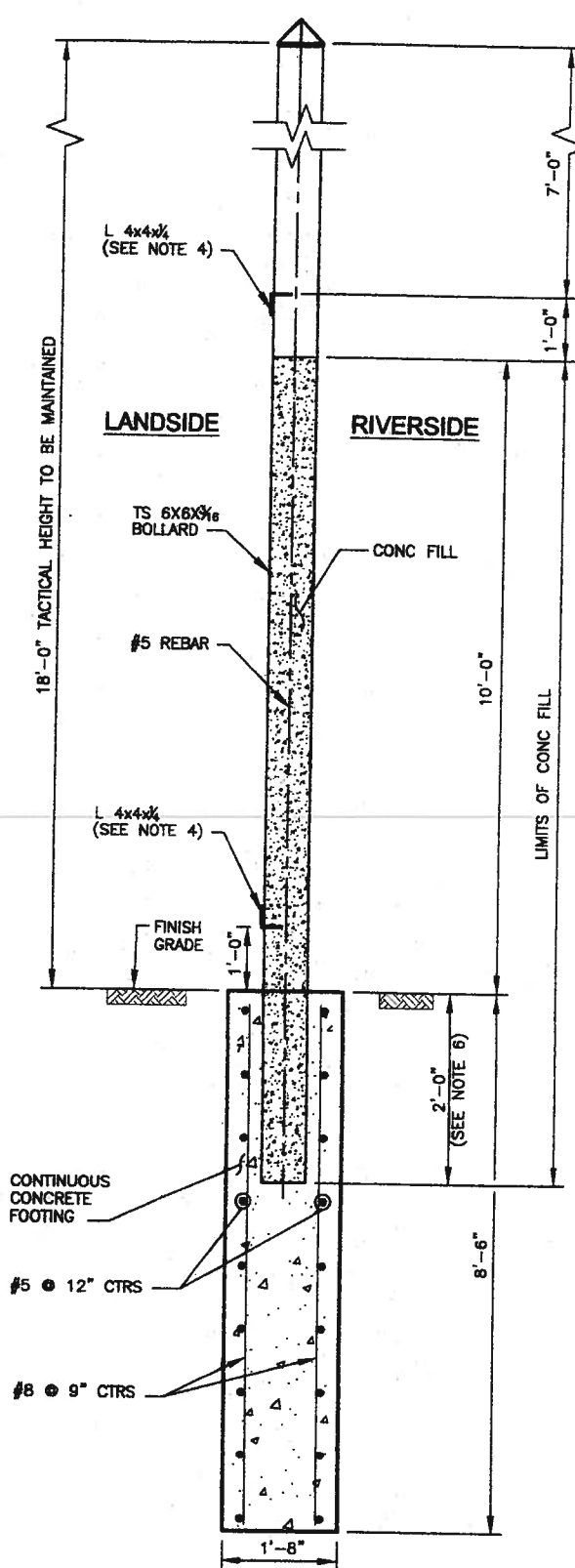
Michel S. Maksoud, P.E.
 Date: 4-22-09

Project No.:	4410-04
Designed By:	W.P.C.
Drawn By:	H.R.V.
Checked By:	R.S.
Sheet No.:	S02-05A

C:\Documents\1\Projects\17891\04-PHIL_S02-05_Rev04.dwg
 Michel S. Maksoud, P.E.
 Date: 4-22-09



PARTIAL ELEVATION VIEW



SECTION A-A

NOTE:

1. ALL CONCRETE TO BE CLASS "C", $F_c = 3800$ PSI.
2. ALL REINFORCING STEEL TO BE GRADE 60.
3. ALL REINFORCING STEEL IS DIMENSIONED TO CENTER OF BAR UNLESS NOTED OTHERWISE.
4. FOR MISCELLANEOUS BOLLARD DETAILS SEE SERIES S02 SHEETS.
5. CONTRACTOR IS TO INSTALL CONSTRUCTION / EXPANSION JOINTS ON 32'-4" CENTERS AND EXPANSION JOINTS AT 97'-0" CENTERS UNLESS NOTED OTHERWISE ON SERIES C04 DRAWINGS, AND DRAWINGS C03-01, AND C03-05.
6. ADJACENT PANELS MAY BE STEPPED UP TO A MAXIMUM OF 1'-0" TO ACCOMMODATE VARYING TERRAIN.
7. HORIZONTAL STEEL SHALL TRANSITION TO SPACING INDICATED AT PIPE CROSSING AS APPLICABLE.
8. COST FOR CONCRETE FILL AND NO 5 REBAR IS INCIDENTAL TO BID ITEM FOR BOLLARD (TRANSPORT FROM STAGING AREA AND INSTALL PER PLANS) AND IS NOT A SEPARATE BID ITEM.
9. CONTRACTOR TO INSTALL CONSTRUCTION AND EXPANSION JOINTS WITHOUT WATER STOPS.

Rev. No.	Description	Chk. By:	Date
B	ISSUED FOR CONSTRUCTION	R.S.	04-16-09
A	REVISE AS NOTED	R.S.	04-29-09



DANNENBAUM
 ENGINEERING COMPANY-McALLEN, LLC
 1109 Nolana Loop, Suite 208 McAllen, TX 78504 (956) 682-3877

PROGRESO RIVER LEVEE
 IMPROVEMENT PROJECT
 DHS SECTION O-9 (PHASE II)

BOLLARD FOUNDATION DETAILS
 STA 158+38.65 TO STA 161+46.31
 WITHOUT PIPE CROSSING

SHEET (1 OF 1)

	Project No.:	4410-04
	Designed By:	W.P.C.
	Drawn By:	H.R.Y.
	Checked By:	R.S.
	Sheet No.:	S02-05B

Date: 4-30-09

G:\1540\4287-XX\Drawings\0-1\FC_Plan\STRUCTURAL\Rev 2\09-Phil_S02-05_Rev04.dwg, Rev 2.dwg, 04/29/09, 10:20 AM, Michel Moseoud, P.E.

HIDALGO County Drainage District No. 1
LEVEE IMPROVEMENTS PROJECT
DHS SEGMENT 0-9 PHASE II (1.67 MILES)

CHANGE ORDER NO. 24

Date: May 8, 2009

Contractor: McAllen Construction
4700 N Ware Rd
McAllen, Texas 78504

Owner: Hidalgo County Drainage District No. 1
902 N. Doolittle Road
Edinburg, Texas 78541

Reference: LEVEE IMPROVEMENTS PROJECT
DHS SEGMENT 0-9 PHASE II (1.67 MILES)

Contract No. 08-018-09-02
Dannenbaum No. 4410-04

Description:
Modification to bollard foundation design for wall extension.

Contract Amount:

Original Contract Price:	\$	13,425,119.85
Previous Change Order(s):	\$	573,545.97
Contract price prior to this change order:	\$	13,998,665.82
Net increase (decrease) from this change order:	\$	5,195.64
Contract price with all change orders to date (including this change order):	\$	<u>14,003,861.46</u>

Contract Time:

Authorized contract time change:	
Previous Total	0 days
This Change Order	0 days
Total to Date	<u>0</u> days

APPROVALS:

ENGINEER:
Dannenbaum Engineering Company - McAllen, LLC



Richard D. Seitz, P.E. Date 5/26/09
Resident Project Representative

OWNER:
Hidalgo Co. Drainage Dist. No. 1

JD Salinas Date
Chairman of the Board

ACCEPTED:

CONTRACTOR:
McAllen Construction


James Eckroat Date 5-26-09
Vice President



HIDALGO COUNTY

MAY 27 2009

DRAINAGE DISTRICT #1

HIDALGO COUNTY DRAINAGE DISTRICT NO. 1
LEVEE IMPROVEMENTS PROJECT

CHANGE ORDER NO. 24

ATTACHMENT B

Date: May 26, 2009

Contractor: McALLEN CONSTRUCTION
4700 N WARE ROAD
McALLEN, Texas 78504

Owner: Hidalgo County Drainage District No. 1
902 N. Doolittle Road
Edinburg, Texas 78541

Reference: LEVEE IMPROVEMENTS
PROJECT
DHS SEGMENT 0-9 PH II (1.67 MI)

Contract No. 08-018-09-02
Dannenbaum No. 4410-04

ENGINEER'S EXPLANATION

DESCRIPTION OF CHANGE

Modification to bollard foundation design for wall extension.

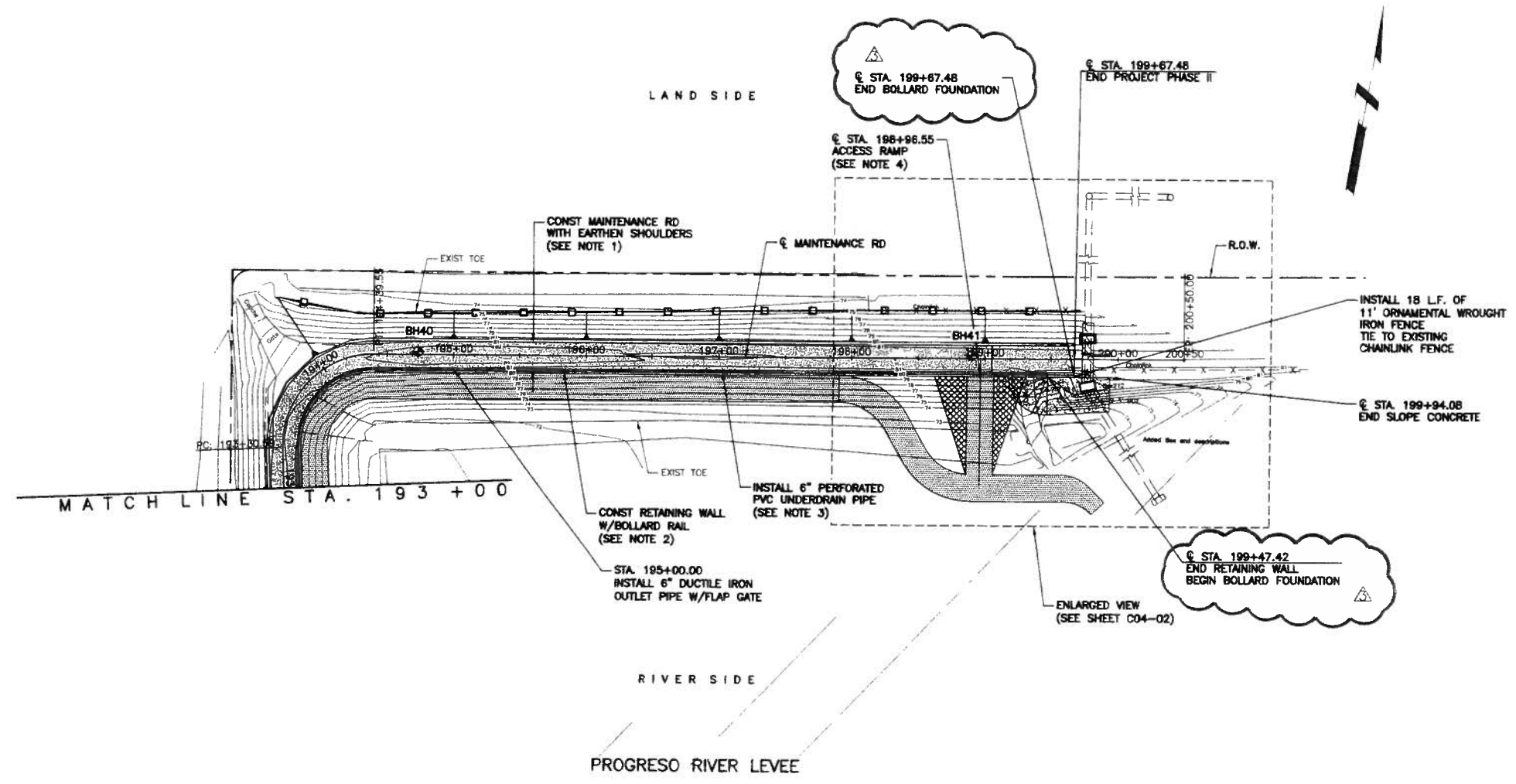
JUSTIFICATION FOR CHANGE

Original Issued for Bid documents contained a 6 foot bollard foundation wall with wire mesh reinforcement. Final soil conditions at location of these walls dictated a re-design to bollard foundation walls 10' in height with bar reinforcement.

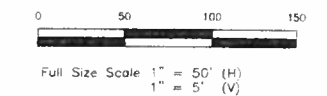
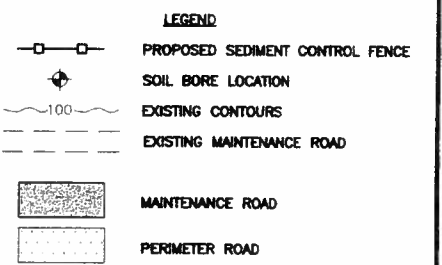
ENGINEER'S JUSTIFICATION OF COST

Straight unit cost change order, same unit price was used from Change Order No. 23.

HIDALGO COUNTY
MAY 27 2009
DRAINAGE DISTRICT #1



- NOTES:**
- SEE "C02" SERIES SHEETS FOR PROPOSED TYPICAL SECTIONS.
 - SEE "S01" SERIES SHEETS FOR RETAINING WALL DETAILS.
 - SEE "C10" SERIES SHEETS FOR RETAINING WALL UNDERDRAIN SYSTEM DETAILS.
 - SEE "C08" SERIES SHEETS FOR ACCESS RAMP DETAILS.
 - SEE "S02" SERIES SHEETS FOR BOLLARD DETAILS.
 - WATER STRIKE SHOWN ON PROFILE WAS DEVELOPED BY CONNECTING WATER STRIKE ELEVATIONS SHOWN IN GEOTECHNICAL REPORT FOR THIS PROJECT AND IS PROVIDED FOR CONTRACTOR INFORMATION ONLY.
 - SHEAR KEY HEIGHT SHOWN ON PLAN AND PROFILE SHEETS IS NOT SHOWN TO ACTUAL DIMENSIONS. REFER TO RETAINING WALL DETAIL SHEETS FOR ACTUAL HEIGHT OF SHEAR KEY.



Rev. No.	Description	Chk. By:	Date
JFC	ISSUED FOR CONSTRUCTION	R.S.	08-12-08
⚠	REVISED BOLLARDS	R.S.	02-27-09
⚠	REPLACE IN ITS ENTIRETY	R.S.	02-27-09
⚠	REVISED BOLLARD FOUNDATION	R.S.	05-08-09



DANNENBAUM
ENGINEERING COMPANY-McALLEN, LLC
 1109 Nolana Loop, Suite 208 McAllen, TX 78504 (956) 682-367

PROGRESO RIVER LEVEE
 IMPROVEMENT PROJECT
 DHS SECTION O-9 (PHASE II)

PLAN & PROFILE
 STA. 193+00 TO STA. 199+72.44

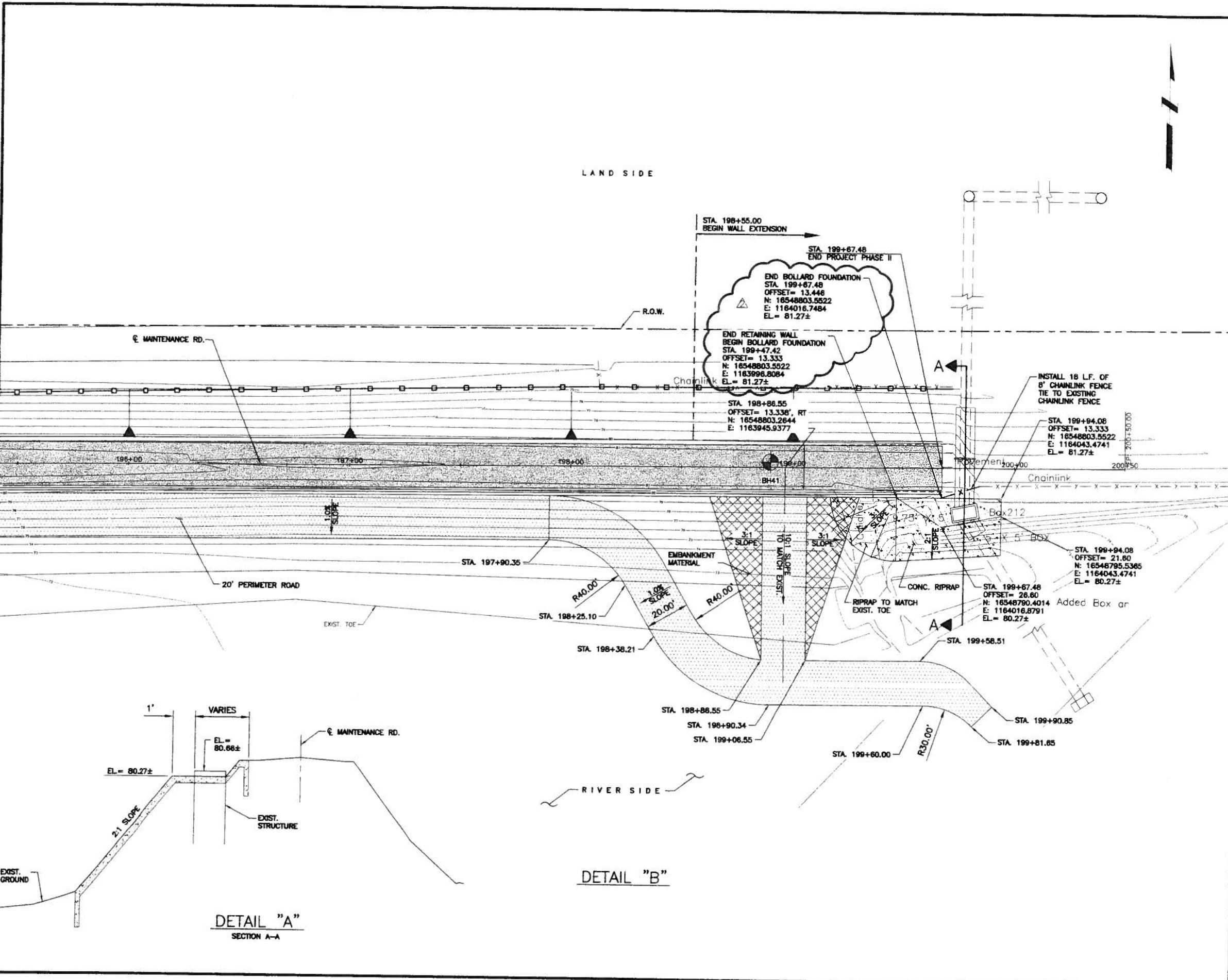
SHEET (8 OF 8)



Omar Anzures, Jr.
 Omar Anzures, Jr., P.E.
 Date: 5-8-09

Project No.	4410-04
Designed By:	O.A.
Drawn By:	H.R.V.
Checked By:	R.S.
Sheet No.:	C03-08

G:\1540\082-xx\Levee_0-9\VC_Plan_Profile.dwg - 199+72.44.dwg
 Plot Date: 05/08/09 11:14 AM
 Plotter: HP DesignJet 500



LAND SIDE

RIVER SIDE

LEGEND

- PROPOSED SEDIMENT CONTROL FENCE
- SOIL BORE LOCATION
- EXISTING CONTOURS
- EXISTING MAINTENANCE ROAD
- MAINTENANCE ROAD
- PERIMETER ROAD

0 20 40 60
Full Size Scale 1" = 20' (H)

Rev. No.	Description	Chk. By.	Date
IFC	ISSUED FOR CONSTRUCTION	R.S.	08-12-08
	REPLACE IN ITS ENTIRETY	R.S.	02-27-09
	REVISED BOLLARD STATIONS	R.S.	05-08-09

DANNENBAUM
ENGINEERING COMPANY-McALLEN, LLC
 1109 Nolana Loop, Suite 208 McAllen, TX 78504 (956) 682-3677

PROGRESO RIVER LEVEE
 IMPROVEMENT PROJECT
 DHS SECTION O-9 (PHASE II)

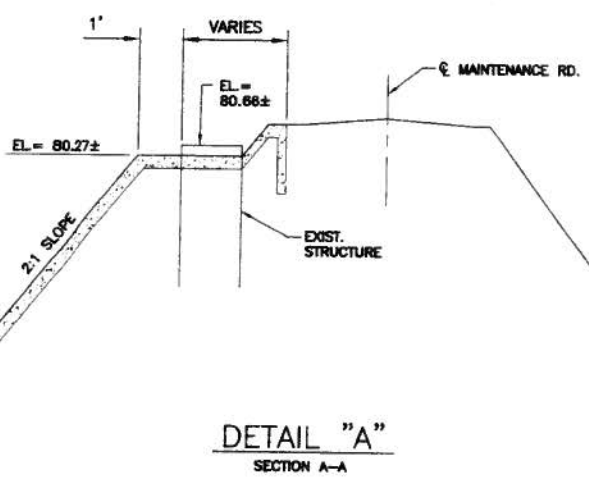
ENLARGED VIEW OF EAST END
 OF RETAINING WALL

SHEET (1 OF 1)

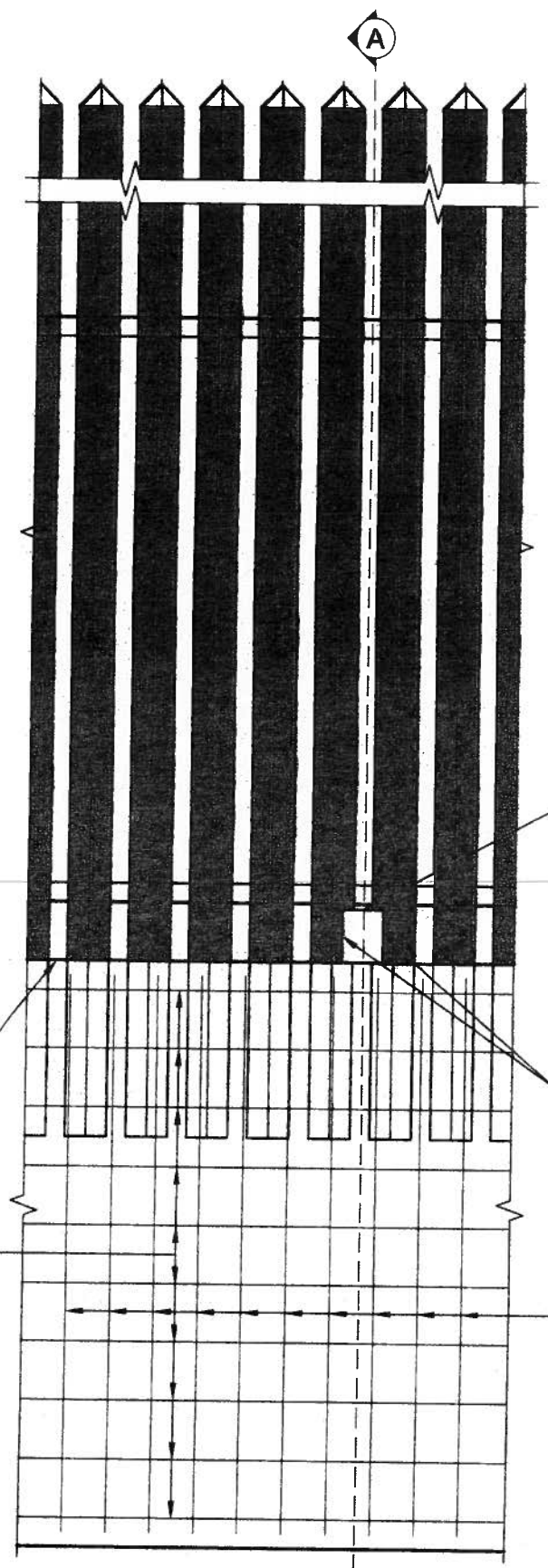


Omar Anzures, Jr.
 Omar Anzures, Jr., P.E.
 Date: 5-8-09

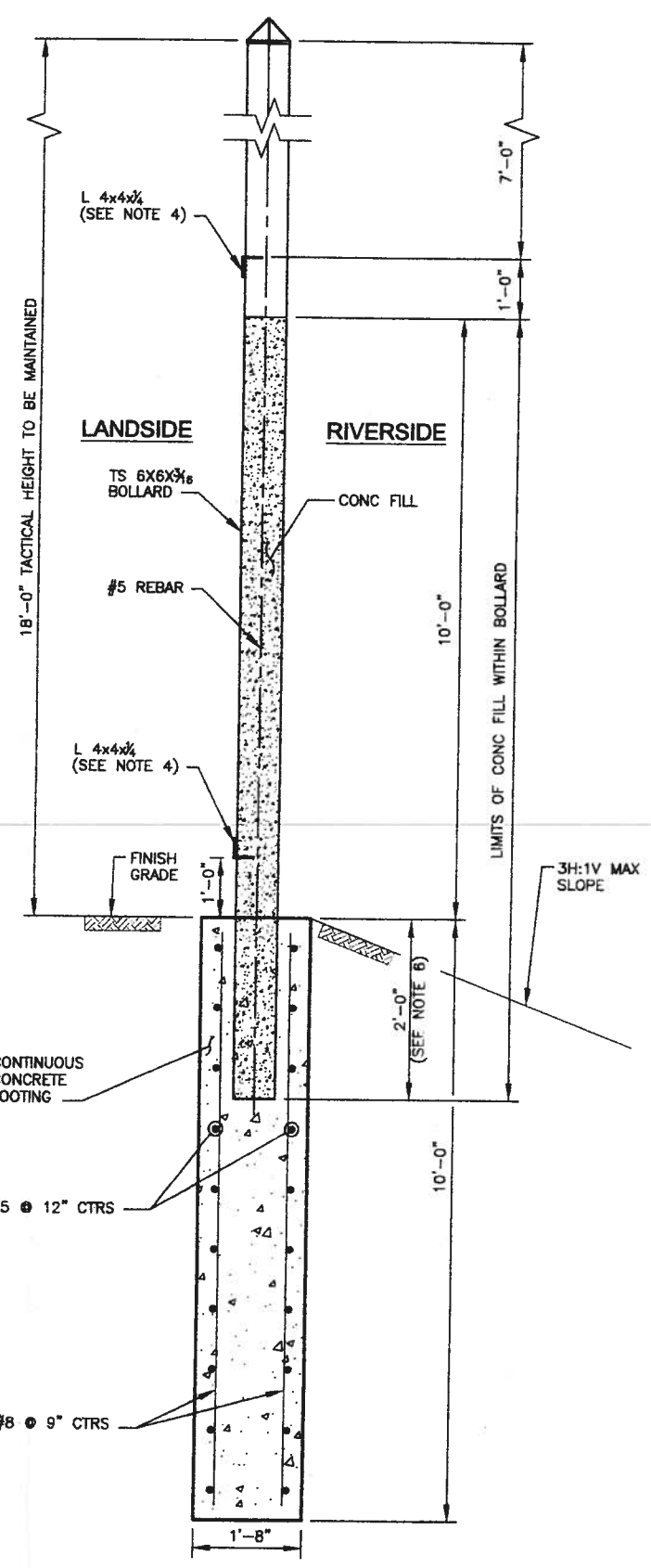
Project No.	4410-04
Designed By:	O.A.
Drawn By:	H.R., J.R., D.C.
Checked By:	R.S.
Sheet No.	C04-02



C:\Users\omars\Documents\Projects\PROGRESO_RIVER_LEVEE\PHASE II\END OF STATION DETAIL.dwg, REV. 2.dwg
 Created: 05/08/09 11:38am, Plotted: 05/08/09 11:38am, Plotter: HP DesignJet 5000



PARTIAL ELEVATION VIEW



SECTION A-A

- NOTE:
1. ALL CONCRETE TO BE CLASS "C", $F_c=3600$ PSI.
 2. ALL REINFORCING STEEL TO BE GRADE 60.
 3. ALL REINFORCING STEEL IS DIMENSIONED TO CENTER OF BAR UNLESS NOTED OTHERWISE.
 4. FOR MISCELLANEOUS BOLLARD DETAILS SEE SERIES S02-03, S02-04 SHEETS.
 5. CONTRACTOR IS TO INSTALL CONSTRUCTION / EXPANSION JOINTS ON 32'-4" CENTERS AND EXPANSION JOINTS AT 97'-0" CENTERS UNLESS NOTED OTHERWISE ON SERIES C04 DRAWINGS, AND DRAWINGS C03-01, AND C03-05.
 6. ADJACENT PANELS MAY BE STEPPED UP TO A MAXIMUM OF 1'-0" TO ACCOMMODATE VARYING TERRAIN.
 7. HORIZONTAL STEEL SHALL TRANSITION TO SPACING INDICATED AT PIPE CROSSING AS APPLICABLE.
 8. COST FOR CONCRETE FILL AND NO 5 REBAR IS INCIDENTAL TO BID ITEM FOR BOLLARD (TRANSPORT FROM STAGING AREA AND INSTALL PER PLANS) AND IS NOT A SEPARATE BID ITEM.
 9. CONTRACTOR TO INSTALL CONSTRUCTION AND EXPANSION JOINTS WITHOUT WATER STOPS.

8 1/2" X 11" CAT OPENING FOR SPECIFIED LOCATIONS, SEE SERIES C06 SHEETS.

FINISH GRADE

NOTCH TS COLUMNS 2 1/2" AND SEAL WITH 1/4" PLATES, WELDED.

#5 @ 12" CTRS

#8 @ 9" CTRS

L 4x4x1/4 (SEE NOTE 4)

LANDSIDE

RIVERSIDE

CONC FILL

#5 REBAR

L 4x4x1/4 (SEE NOTE 4)

FINISH GRADE

3H:1V MAX SLOPE

2'-0" (SEE NOTE 6)

10'-0"

10'-0"

1'-0"

7'-0"

18'-0" TACTICAL HEIGHT TO BE MAINTAINED

LIMITS OF CONC FILL WITHIN BOLLARD

1'-8"

#5 @ 12" CTRS

#8 @ 9" CTRS

CONTINUOUS CONCRETE FOOTING

Rev. No.	Description	Chk. By:	Date
B	ISSUED FOR CONSTRUCTION	R.S.	08-12-08
A	REVISED FOUNDATION DIMS. AND STEEL REINFORCING	R.S.	04-16-09
A	REVISE AS NOTED	R.S.	04-29-09

DANNENBAUM
 ENGINEERING COMPANY-McALLEN, LLC
 1109 Nolana Loop, Suite 208 McAllen, TX 78504 (956) 682-3677

PROGRESO RIVER LEVEE
 IMPROVEMENT PROJECT
 DHS SECTION O-9 (PHASE II)

BOLLARD FOUNDATION DETAILS
 STA 112+37.36 TO STA 115+63.09
 WITHOUT PIPE CROSSING

Michel S. Moksoud, P.E.
 Date: 4-30-09

Project No.	4410-04
Designed By:	W.P.C.
Drawn By:	H.R.V.
Checked By:	R.S.
Sheet No.:	S02-05

C:\1540\287-XX\Levee O-9\VC_Plan\STRUCTURAL\Rev 2\08-Pile S02-05 Rev.mcd.dwg Rev. 2.dwg
 Printed: Tue, 4/30/09 10:23 AM
 Plot: 4/30/09 10:23 AM
 Plotter: HP DesignJet 500

AI-15971

5.C.

C-1413-09-F; McAllen Construction, Inc. v. Hidalgo County Drainage District No. 1

DRAINAGE DISTRICT

Date: 06/15/2009

Submitted By: Monica Badillo, COMMISSIONERS' COURT EXEC. OFFICE

Department: COMMISSIONERS' COURT EXEC. OFFICE

Information

CAPTION

C-1413-09-F; McAllen Construction, Inc. v. Hidalgo County Drainage District No. 1

BACKGROUND

Fiscal Impact

Attachments

No file(s) attached.

Form Routing/Status

Route Seq	Inbox	Approved By	Date	Status
1	Budget & Management	Veronica Lopez	06/11/2009 10:09 AM	APRV
2	Final Approval		06/11/2009 04:37 PM	NEW
Form Started By: Monica Badillo			Started On: 06/11/2009 08:53 AM	

Final Approval Date: 06/11/2009

AI-15972

6.C.

C-1413-09-F; McAllen Construction, Inc. v. Hidalgo County Drainage District No. 1

DRAINAGE DISTRICT

Date: 06/15/2009

Submitted By: Monica Badillo, COMMISSIONERS' COURT EXEC. OFFICE

Department: COMMISSIONERS' COURT EXEC. OFFICE

Information

CAPTION

C-1413-09-F; McAllen Construction, Inc. v. Hidalgo County Drainage District No. 1

BACKGROUND

Fiscal Impact

Attachments

No file(s) attached.

Form Routing/Status

Route Seq	Inbox	Approved By	Date	Status
1	Budget & Management	Veronica Lopez	06/11/2009 10:09 AM	APRV
2	Final Approval		06/11/2009 04:37 PM	NEW

Form Started By: Monica Badillo
Started On: 06/11/2009 08:54 AM

Final Approval Date: 06/11/2009
