

HIDALGO COUNTY REGIONAL MOBILITY AUTHORITY

NOTICE OF AND AGENDA FOR A REGULAR MEETING TO BE HELD BY THE BOARD OF DIRECTORS

DATE: FRIDAY, JANUARY 24, 2025
TIME: 4:00 PM
PLACE: PHARR CITY HALL
2nd FLOOR CITY COMMISSION CHAMBERS
118 SOUTH CAGE BLVD.
PHARR, TEXAS 78577

PRESIDING: ROBERT L. LOZANO, CHAIRMAN

An electronic copy of the agenda packet can be obtained at www.hcrma.net

PLEDGE OF ALLEGIANCE

INVOCATION

CALL TO ORDER OF A WORKSHOP

1. Review of Quarterly Investment Report for the period ending December 31, 2024.
2. Pathfinder Public Affairs presentation.

CALL TO ORDER AND ESTABLISHMENT OF A QUORUM FOR A REGULAR MEETING

PUBLIC COMMENT

1. CHAIRMAN'S REPORT

- A. Western Hidalgo County Loop System Development.

2. STAFF REPORTS

- A. Report on Program Management Activity for 365 Tollway Project – Ruben Alfaro, HCRMA
- B. Report on Construction Activity for 365 Tollway Project – Ramon Navarro IV, HCRMA.

3. **CONSENT AGENDA** *(All matters listed under Consent Agenda are considered to be routine by the Governing Body and will be enacted by one motion. There will be no separate discussion of these items; however, if discussion is desired, that item(s) will be removed from the Consent Agenda and will be considered separately. The Governing Body may also elect to go into Executive Session on any item on this agenda, whether or not such item(s) are posted as an Executive Session Item, at any time during the meeting when authorized by provisions of the Open Public Meeting Act.)*

- A. Approval of Minutes for the Regular Board Meeting held December 17, 2024.
- B. Approval of Project & General Expense Report for the period from December 5, 2024, to January 10, 2025.

- C. Approval of Financial Reports for November 2024.
- D. Approval of Quarterly Investment Report for the Period ending December 31, 2024.
- E. Resolution 2025-01 – Annual review and approval of the Investment Policy for the Hidalgo County Regional Mobility Authority.
- F. Resolution 2025-07- Consideration and approval of Revised Change Order Number 14 to that certain contract with Pulice Construction, Inc. for the 365 Tollway.

4. REGULAR AGENDA

- A. Resolution 2025-02 – Resolution Adopting the Hidalgo County Regional Mobility Authority’s Legislative Agenda for the 89th Regular Session of the Texas State Legislature.
- B. Resolution 2025-03 – Consideration and approval of Work Authorization Number 1 to contract with Mitres Services, LLC, for the Granjeno Wetland Mitigation Site Project for a deduction to the maximum amount payable.
- C. Resolution 2025-04 – Consideration and approval of Contract Amendment Number 1 to the Professional Service Agreement with SWG Engineering for construction inspection services for the Hidalgo County Irrigation District Number 2 improvements as part of the 365 Tollway Project.
- D. Resolution 2025-05 - Consideration and Approval of Work Authorization Number 3 to the Professional Service Agreement with Terracon Consultants, Inc. for Construction Material Testing for the 365 Tollway Project.
- E. Resolution 2025-06 – Consideration and approval of Contract Amendment Number 2 to the Professional Service Agreement with Terracon Consultants, Inc. to increase maximum payable amount for Work Authorization Number 3.
- F. Resolution 2025-08 - Consideration and approval of Change Order Number 15 to that certain contract with Pulice Construction, Inc. for the 365 Tollway.

5. TABLED ITEMS

- A. None.

6. EXECUTIVE SESSION, CHAPTER 551, TEXAS GOVERNMENT CODE, SECTION 551.071 (CONSULTATION WITH ATTORNEY), SECTION 551.072 (DELIBERATION OF REAL PROPERTY), AND SECTION 551.074 (PERSONNEL MATTERS)

- A. Consultation with Attorney on legal issues pertaining to the advance project development of the 365 Tollway Segment 4, Section “A” West and Section “C” of the Hidalgo County Loop System (Section 551.071 T.G.C.).
- B. Consultation with Attorney on legal issues pertaining to the Joint Use Agreement between Hidalgo County Irrigation District Number 2 and the Hidalgo County Regional Mobility Authority for the 365 Tollway Project (Section 551.071 T.G.C.).
- C. Consultation with Attorney on legal issues pertaining to Change Order Number 1-13 to that certain contract with Pulice Construction Inc. for the 365 Tollway Project (Section 551.071 T.G.C.).
- D. Consultation with Attorney on legal issues pertaining to the Financial Assistance Agreement with the Texas Department of Transportation for the 365 Tollway Project (Section 551.071 T.G.C.).
- E. Consultation with Attorney on legal issues pertaining to Professional Service Agreements for Inspection, Engineering, Surveying and Environmental Services to include construction material testing (Section 551.071 T.G.C.).
- F. Consultation with Attorney on legal issues pertaining to the voluntary acquisition of real property for various parcels for the 365 Tollway Project and International Bridge Trade Corridor Project (Sections 551.071 and 551.072 T.G.C.).

- G. Consultation with Attorney on legal issues pertaining to the acquisition, including the use of Eminent Domain, for property required to complete the project alignments of the 365 Tollway Project (Sections 551.071 and 551.072 T.G.C.).
- H. Consultation with Attorney on legal issues pertaining to the Environmental Clearance Document for the International Bridge Trade Corridor Project (Section 551.071 T.G.C.).
- I. Consultation with Attorney on legal issues pertaining to Professional Services Agreements (Section 551.071 T.G.C.).

ADJOURNMENT OF REGULAR MEETING

CERTIFICATION

I, the Undersigned Authority, do hereby certify that the attached agenda of the Hidalgo County Regional Mobility Authority Board of Directors is a true and correct copy and that I posted a true and correct copy of said notice on the Hidalgo County Regional Mobility Authority Web Page (www.hcrma.net) and the bulletin board in the Hidalgo County Regional Mobility Authority office (203 W. Newcombe Ave, Pharr, Texas 78577), a place convenient and readily accessible to the general public at all times, and said Notice was posted on the 17th day of January 2025 at 5:00 pm and will remain so posted continuously for at least 72 hours preceding the scheduled time of said meeting in accordance with Chapter 551 of the Texas Government Code.

Maria E. Alaniz
Program Coordinator

Note: If you require special accommodations under the Americans with Disabilities Act, please contact Maria E. Alaniz at 956-402-4762 at least 96 hours before the meeting.

PUBLIC COMMENT POLICY

Public Comment Policy: "At the beginning of each HCRMA meeting, the HCRMA will allow for an open public forum/comment period. This comment period shall not exceed one-half (1/2) hour in length and each speaker will be allowed a maximum of three (3) minutes to speak. Speakers addressing the Board through a translator will be allowed a maximum of six (6) minutes.

All individuals desiring to address the HCRMA must be signed up to do so, prior to the open comment period. For meetings being held by telephonic or videoconference, individuals may contact Maria. E. Alaniz at (956) 402-4762 before 5:00 pm day of the meeting.

The purpose of this comment period is to provide the public an opportunity to address issues or topics that are under the jurisdiction of the HCRMA. For issues or topics which are not otherwise part of the posted agenda for the meeting, HCRMA members may direct staff to investigate the issue or topic further. No action or discussion shall be taken on issues or topics which are not part of the posted agenda for the meeting. Members of the public may be recognized on posted agenda items deemed appropriate by the Chairman as these items are considered, and the same time limitations applies."

Note: Participation by Telephone/Video Conference Call – One or more members of the HCRMA Board of Directors may participate in this meeting through a telephone/video conference call, as authorized by Sec. 370.262, Texas Transportation Code.

This Page
Intentionally
Left Blank

Workshop

Item 1

HIDALGO COUNTY REGIONAL MOBILITY AUTHORITY

AGENDA RECOMMENDATION FORM

BOARD OF DIRECTORS
PLANNING COMMITTEE
FINANCE COMMITTEE
TECHNICAL COMMITTEE

 X

AGENDA ITEM 1
DATE SUBMITTED 01/15/2025
MEETING DATE 01/24/2025

1. Agenda Item: **WORKSHOP ITEM 1 – QUARTERLY INVESTMENT REPORT FOR THE PERIOD ENDING DECEMBER 31, 2024.**
2. Nature of Request: (Brief Overview) Attachments: X Yes No
Presentation of the quarterly investment report.
2. Policy Implication: Board Policy, Local Government Code, Texas Government Code, Public Funds Investment Act Section 2256
4. Budgeted: Yes No X N/A
5. Staff Recommendation: **Report Only.**
6. Planning Committee's Recommendation: Approved Disapproved X None
7. Board Attorney's Recommendation: Approved Disapproved X None
8. Chief Auditor's Recommendation: Approved Disapproved X None
9. Chief Financial Officer's Recommendation: Approved Disapproved X None
10. Chief Development Engineer's Recommendation: Approved Disapproved X None
11. Chief Construction Engineer's Recommendation: Approved Disapproved X None
12. Executive Director's Recommendation: Approved Disapproved X None



Board of Directors

Robert L. Lozano, Chairman

Ezequiel Reyna, Jr., Vice-Chairman

Juan Carlos Del Ángel, Secretary/Treasurer

Gabriel Kamel, Director

Francisco "Frank" Pardo, Director

Sergio Saenz, Director

Michael J. Williamson, Director

January 14, 2025

To: Robert L. Lozano, Chairman
Members of the Board of Directors

From: Pilar Rodriguez, Executive Director/Investment Officer

RE: Quarterly Investment Report for Quarter Ending December 31, 2024 Statement of Compliance

The above-referenced report is hereby presented, pursuant to the Public Funds Investment Act (PFIA), for your review and acceptance.

This quarter investment disbursements totaled \$19,891,997 consisting of project activities--\$14,355,712 and debt service requirements in the amount of \$5,536,285: (principal payment of \$2,325,000 and interest payments in the amount of \$3,211,285). Other sources included: internal transfers-in totaling \$1,297,497; contributions: (TxDOT Grant)--\$7,554,957; and total interest earned was \$1,962,26.

The PFIA also requires that the report contain a Statement of Compliance, signed by the Investment Officer, as presented below:

STATEMENT OF COMPLIANCE

This report complies with the requirements of the Public Investment Act as well as the Hidalgo County Regional Mobility Authority's (RMA) adopted investment policy. The RMA follows all provisions of the Public Investment Act and the RMA's investment policy.

Presented by RMA Investment Officers:

Pilar Rodriguez, Investment Officer

Jose H. Castillo, Investment Officer

HIDALGO COUNTY REGIONAL MOBILITY AUTHORITY
QUARTERLY INVESTMENT SUMMARY REPORT
Quarter Ending December 31, 2024

	Local Govt. Investment Pool	Government (Federated) Securities	Total
COST			
Beginning Balance	\$ 139,918,660	\$ 20,515,626	\$ 160,434,286
Additions:			
Interfund Transfers-in(net)	-	797,497	797,497
*Transfer of funds	500,000	-	500,000
Contributions	-	7,554,957	7,554,957
Investment earnings-LOGIC	1,706,265	-	1,706,265
Investment earnings-Wilmington Trust		256,061	256,061
Deductions:			-
Disbursements-Debt Service	-	(5,536,285)	(5,536,285)
Construction and related expenses	(5,867,202)	(8,488,510)	(14,355,712)
Ending Balance	<u>\$ 136,257,723</u>	<u>\$ 15,099,346</u>	<u>\$ 151,357,069</u>

*Transfer of funds between Wilmington and Logic accounts.

MARKET VALUE

Beginning Balance	<u>\$ 139,928,454</u>	<u>\$ 20,515,623</u>	<u>\$ 160,444,077</u>
Ending Balance	<u>\$ 136,281,159</u>	<u>\$ 15,099,346</u>	<u>\$ 151,380,505</u>

*Note-Logic interest earned on HCRMA's funds held by Trustee (Wilmington Trust)

Weighted Average Maturity- Logic/Gov. Sec.	48	30
Logic/Gov Sec. Weighted Average Yield	4.84%	4.31%

HIDALGO COUNTY REGIONAL MOBILITY AUTHORITY
HOLDINGS BY INVESTMENTS
QUARTERLY INVESTMENT REPORT
Quarter Ending December 31, 2024

Type of Investment	Beginning Cost	Wilmington Interest	LOGIC Interest	Interfund Transfers/ Contributions	Disbursements	Ending Cost	Market Value
Local Govt. Investment Pool:							
Debt Service Jr. Lien: #7731494002	\$ 189	\$ -	\$ 5	\$ (194)	\$ -	\$ (0)	(0)
Contingency: #2731494001	8,743,574	-	109,935	500,000	-	9,353,509	9,355,117
Road Maintenance: #2731494002	1,115,856	-	13,661	-	-	1,129,517	1,129,711
Total Local Govt. Investment Pool	\$ 9,859,618	\$ -	\$ 123,601	\$ 499,806	\$ -	\$ 10,483,025	\$ 10,484,828
Government Securities (Federated Govt Obligations):							
General FD #154037-003 & #7731494007	\$ 6,389,091	\$ 3	\$ 78,219	\$ -	\$ -	\$ 6,467,313	\$ 6,468,426
Debt Service Fund 2013: #106912-001	21	-	-	(21)	-	(0)	0
Debt Service Fund 2020: #143255-001	2,537,445	30,308	-	797,712	(3,149,159)	216,306	216,306
Debt Service Account Sr Rev Bonds #154037-000	1,704	56	-	-	(1,754)	6	6
Debt Service Account #154037-001	2,340,394	26,016	-	-	(1,646,197)	720,213	720,213
Debt Service Account #154038-000	1,057,969	11,761	-	-	(739,175)	330,555	330,555
Debt Service Account #154038-001	545	6	-	-	-	551	551
DSRF Account #154037-002 & #7731494006	13,523,520	5	165,563	-	-	13,689,088	13,691,443
DSRF Account #154038-002 & #7731494005	6,099,186	3	74,668	-	-	6,173,857	6,174,919
Project Account #154037-006 & #7731494009	27,096,565	86,944	219,294	-	(14,351,606)	13,051,197	13,053,442
Project Account #154038-003 & #7731494010	2	-	-	-	-	2	2
Disbursement Account: #106912-006 & #7731494008	91,528,223	100,959	1,044,923	7,554,957	(4,106)	100,224,956	100,239,814
Total Government Securities	\$ 150,574,665	\$ 256,061	\$ 1,582,667	\$ 8,352,648	\$ (19,891,997)	\$ 140,874,044	\$ 140,895,676
Combined Totals	\$ 160,434,283	\$ 256,061	\$ 1,706,268	\$ 8,852,454	\$ (19,891,997)	\$ 151,357,069	\$ 151,380,505

*Note-Logic interest earned on HCRMA's funds held by Trustee (Wilmington Trust)

Wilmington Trust Investments Detail Activity
Quarter Ending December 31, 2024

HIDALGO CO RMA DEBT SERVICE FD #106912-001

		Wilmington	Income LOGIC		Interfund		Ending
Debt Svc.:	Opening balance:	Interest	Interest	Contributions	Transfers	Disbursements	Balance
October	21	-			(21)	-	-
November		-	-	-	-	-	-
December		-	-	-	-	-	-
		-	-	-	(21)	-	

HIDALGO CO RMA 2020 DS FUND #143255-001

		Wilmington	Income LOGIC		Interfund		Ending
Debt Svc.:	Opening balance:	Interest	Interest	Contributions	Transfers	Disbursements	Balance
October	2,537,445	8,900	-	-	331,110	-	2,877,455
November	2,877,455	10,488	-	-	331,110	-	3,219,053
December	3,219,053	10,920	-	-	135,492	(3,149,159)	216,306
		30,308	-	-	797,712	(3,149,159)	

CONTINGENCY ACCOUNT-LOGIC #2731494001

		Wilmington	Income LOGIC		Interfund		Ending
Contingency:	Opening balance:	Interest	Interest	Contributions	Transfers	Disbursements	Balance
October	8,743,574	-	37,442	-	200,000	-	8,981,016
November	8,981,016	-	35,848	-	150,000	-	9,166,864
December	9,166,864	-	36,645	-	150,000	-	9,353,509
		-	109,935	-	500,000	-	

DEBT SERVICE ACCOUNT-LOGIC #7731494002

		Wilmington	Income LOGIC		Interfund		Ending
Debt Svc-SIB:	Opening balance:	Interest	Interest	Contributions	Transfers	Disbursements	Balance
October	189	-	5	-	(194)	-	-
November	0	-	-	-	-	-	-
December	0	-	-	-	-	-	-
		-	5	-	(194)	-	

ROAD MAINTENANCE ACCOUNT-LOGIC #2731494002

		Wilmington	Income LOGIC		Interfund		Ending
Debt Svc-SIB:	Opening balance:	Interest	Interest	Contributions	Transfers	Disbursements	Balance
October	1,115,856	-	4,730	-	-	-	1,120,586
November	1,120,586	-	4,448	-	-	-	1,125,034
December	1,125,034	-	4,483	-	-	-	1,129,517
		-	13,661	-	-	-	

Wilmington Trust Investments Detail Activity
Quarter Ending December 31, 2024

HIDALGO CO RMA DISBURSEMENT ACCT #106912-006 & LOGIC #7731494008

Disbursement:		Income					Ending Balance
		Wilmington Interest	LOGIC Interest	Contributions	Interfund Transfers	Disbursements	
Opening balance:	91,528,223	22,178	361,754	3,641,480	-	(2,056)	95,551,579
October	95,551,579	36,456	340,243	1,991,889	-	(2,050)	97,918,117
November	97,918,117	42,325	342,926	1,921,588	-	-	100,224,956
December							
		100,959 *	1,044,923	7,554,957	-	(4,106)	

HCRMA SR LIEN 2022A REV BDS ACCT. #154037-000

DS Account:		Income					Ending Balance
		Wilmington Interest	LOGIC Interest	Contributions	Interfund Transfers	Disbursements	
Opening balance:	1,704	42	-	-	-	-	1,746
October	1,746	7	-	-	-	-	1,753
November	1,753	7	-	-	-	(1,754)	6
December							
		56	-	-	-	(1,754)	

HCRMA SR LIEN 2022A DS ACCT. #154037-001

DS Account:		Income					Ending Balance
		Wilmington Interest	LOGIC Interest	Contributions	Interfund Transfers	Disbursements	
Opening balance:	2,340,394	8,578	-	-	-	-	2,348,972
October	2,348,972	9,032	-	-	-	-	2,358,004
November	2,358,004	8,406	-	-	-	(1,646,197)	720,213
December							
		26,016	-	-	-	(1,646,197)	

HCRMA SR LIEN 2022A DSRF #154037-002 & LOGIC #7731494006

DSRF Account:		Income					Ending Balance
		Wilmington Interest	LOGIC Interest	Contributions	Interfund Transfers	Disbursements	
Opening balance:	13,523,520	1	57,319	-	-	-	13,580,840
October	13,580,840	2	53,909	-	-	-	13,634,751
November	13,634,751	2	54,335	-	-	-	13,689,088
December							
		5 *	165,563	-	-	-	

HCRMA JR LIEN 2022B DS ACCT #154038-001

DS Account:		Income					Ending Balance
		Wilmington Interest	LOGIC Interest	Contributions	Interfund Transfers	Disbursements	
Opening balance:	545	2	-	-	-	-	547
October	547	2	-	-	-	-	549
November	549	2	-	-	-	-	551
December							
		6	-	-	-	-	

HCRMA JR LIEN 2022B DSRF #154038-002 & LOGIC #7731494005

DSRF Account:		Income					Ending Balance
		Wilmington Interest	LOGIC Interest	Contributions	Interfund Transfers	Disbursements	
Opening balance:	6,099,186	1	25,850	-	-	-	6,125,037
October	6,125,037	1	24,313	-	-	-	6,149,351
November	6,149,351	1	24,505	-	-	-	6,173,857
December							
		3 *	74,668	-	-	-	

Wilmington Trust Investments Detail Activity
Quarter Ending December 31, 2024

HCRMA SR LIEN 2022A PROJECT FD #154037-006 & LOGIC #7731494009

Project Account:	Opening balance:	Wilmington	Income	Contributions	Interfund	Disbursements	Ending Balance
		Interest	LOGIC Interest		Transfers		
October	27,096,565	43,002	79,256	-	-	(4,010,698)	23,208,125
November	23,208,125	28,489	74,543	-	-	(412,758)	22,898,399
December	22,898,399	15,453	65,495	-	-	(9,928,150)	13,051,197
		<u>86,944</u> *	<u>219,294</u>	<u>-</u>	<u>-</u>	<u>(14,351,606)</u>	

HCRMA JR LIEN 2022B PROJECT FD #154038-003 & LOGIC #7731494010

Project Account:	Opening balance:	Wilmington	Income	Contributions	Interfund	Disbursements	Ending Balance
		Interest	LOGIC Interest		Transfers		
October	2	-	-	-	-	-	2
November	2	-	-	-	-	-	2
December	2	-	-	-	-	-	2
		<u>-</u> *	<u>-</u>	<u>-</u>	<u>-</u>	<u>-</u>	

HCRMA JR LIEN REV BDS 2022B #154038-000

Rev Bds 2022B	Opening balance:	Wilmington	Income	Contributions	Interfund	Disbursements	Ending Balance
		Interest	LOGIC Interest		Transfers		
October	1,057,969	3,878	-	-	-	-	1,061,847
November	1,061,847	4,083	-	-	-	-	1,065,930
December	1,065,930	3,800	-	-	-	(739,175)	330,555
		<u>11,761</u>	<u>-</u>	<u>-</u>	<u>-</u>	<u>(739,175)</u>	

HCRMA SR LIEN 2022A GENERAL FD #154037-003 & LOGIC #7731494007

General FD Account	Opening balance:	Wilmington	Income	Contributions	Interfund	Disbursements	Ending Balance
		Interest	LOGIC Interest		Transfers		
October	6,389,091	1	27,080	-	-	-	6,416,172
November	6,416,172	1	25,469	-	-	-	6,441,642
December	6,441,642	1	25,670	-	-	-	6,467,313
		<u>3</u> *	<u>78,219</u>	<u>-</u>	<u>-</u>	<u>-</u>	

*Note-Logic interest earned on HCRMA's funds held by Trustee (Wilmington Trust)

Workshop

Item 2

HIDALGO COUNTY REGIONAL MOBILITY AUTHORITY

AGENDA RECOMMENDATION FORM

BOARD OF DIRECTORS	<u> X </u>	AGENDA ITEM	<u> 2 </u>
PLANNING COMMITTEE	<u> </u>	DATE SUBMITTED	<u> 01/15/25 </u>
FINANCE COMMITTEE	<u> </u>	MEETING DATE	<u> 01/24/25 </u>
TECHNICAL COMMITTEE	<u> </u>		

1. Agenda Item: **WORKSHOP ITEM 2 – PRESENTATION ON PUBLIC AFFAIRS**
2. Nature of Request: (Brief Overview) Attachments: X Yes No
Presentation on Public Affairs – Pathfinders
3. Policy Implication: Board Policy, Local Government Code, Texas Government Code, Texas Transportation Code, TxDOT Policy
4. Budgeted: Yes No X N/A
5. Staff Recommendation: **Presentation only.**
6. Planning Committee's Recommendation: Approved Disapproved X None
7. Finance Committee's Recommendation: Approved Disapproved X None
8. Board Attorney's Recommendation: Approved Disapproved X None
9. Chief Auditor's Recommendation: Approved Disapproved X None
10. Chief Financial Officer's Recommendation: Approved Disapproved X None
11. Development Engineer's Recommendation: Approved Disapproved X None
12. Chief Construction Engineer's Recommendation: Approved Disapproved X None
13. Executive Director's Recommendation: Approved Disapproved X None

Item 1A

HIDALGO COUNTY REGIONAL MOBILITY AUTHORITY

AGENDA RECOMMENDATION FORM

BOARD OF DIRECTORS
PLANNING COMMITTEE
FINANCE COMMITTEE
TECHNICAL COMMITTEE

 X

AGENDA ITEM
DATE SUBMITTED
MEETING DATE

 1A
 1/16/2025
 1/24/2025

1. Agenda Item: **CHAIRMAN'S REPORT – WESTERN HIDALGO COUNTY LOOP SYSTEM DEVELOPMENT.**
2. Nature of Request: (Brief Overview) Attachments: X Yes No
Report on Western Hidalgo County Loop System Development.
3. Policy Implication: Board Policy, Local Government Code, Texas Government Code, Texas Transportation Code, TxDOT Policy
4. Budgeted: Yes No X N/A
5. Staff Recommendation: **Report only.**
6. Program Manager's Recommendation: Approved Disapproved X None
7. Planning Committee's Recommendation: Approved Disapproved X None
8. Board Attorney's Recommendation: Approved Disapproved X None
9. Chief Auditor's Recommendation: Approved Disapproved X None
10. Chief Financial Officer's Recommendation: Approved Disapproved X None
10. Chief Development Engineer's Recommendation: Approved Disapproved X None
11. Chief Construction Engineer's Recommendation: Approved Disapproved X None
12. Executive Director's Recommendation: Approved Disapproved X None

Item 2A

HIDALGO COUNTY REGIONAL MOBILITY AUTHORITY

AGENDA RECOMMENDATION FORM

BOARD OF DIRECTORS
PLANNING COMMITTEE
FINANCE COMMITTEE

 X

AGENDA ITEM
DATE SUBMITTED
MEETING DATE

 2A
1/14/2025
1/24/2025

TECHNICAL COMMITTEE

1. Agenda Item: **REPORT ON PROGRAM MANAGEMENT ACTIVITY FOR 365 TOLLWAY PROJECT AND HIDALGO COUNTY REGIONAL MOBILITY AUTHORITY PROJECTS**
2. Nature of Request: (Brief Overview) Attachments: X Yes No
Report on Overweight Permits Activity, briefing on strategic plan updates.
3. Policy Implication: Board Policy, Local Government Code, Texas Government Code, Texas Transportation Code, TxDOT Policy
4. Budgeted: Yes No X N/A
5. Staff Recommendation: **Report Only**
6. Program Manager's Recommendation: Approved Disapproved X None
7. Planning Committee's Recommendation: Approved Disapproved X None
8. Board Attorney's Recommendation: Approved Disapproved X None
9. Chief Auditor's Recommendation: Approved Disapproved X None
10. Chief Financial Officer's Recommendation: Approved Disapproved X None
10. Chief Development Engineer's Recommendation: X Approved Disapproved None
11. Chief Construction Engineer's Recommendation: Approved Disapproved X None
12. Executive Director's Recommendation: X Approved Disapproved None



HCRMA Board of Directors

Robert L. Lozano, Chairman

Ezequiel Reyna, Jr., Vice-Chairman

Juan Carlos Del Angel, Secretary/Treasurer

Francisco "Frank" Pardo, Director

Sergio Saenz, Director

Michael J. Williamson, Director

HCRMA Administrative Staff

Pilar Rodriguez, PE, Executive Director

Ramon Navarro IV, PE, CFM, Chief Construction Eng.

Celia Gaona, CIA, Chief Auditor/Compliance Officer

Jose Castillo, Chief Financial Officer

Ruben Alfaro, PE, CFM, PMP, Development Engineer

General Engineering Consultant
HDR ENGINEERING, INC.

Report on HCRMA Development Activities

Ruben Alfaro, PE, CFM, PMP
Development Engineer



- ❑ Overweight Permit Summary
- ❑ Outreach updates

MISSION STATEMENT:

To provide our customers with a rapid and reliable alternative for the safe and efficient movement of people, goods, and services.



Specialized Overweight Permits

Hidalgo County allows shippers to securely order specialized overweight permits online. The permits cover travel over the Hidalgo County roads listed below for vehicles weighing no more than the Mexican Legal Weight Limit or 125,000 lbs. For a more detailed explanation, see below.

Permit Information

The Hidalgo County Regional Mobility Authority (HCRMA) administers the overweight permit corridor system for the Hidalgo County. Overweight permits issued through the HCRMA are only valid for destinations originating from the following points of entry:

- Anzalduas Bridge
- Pharr-Reynosa Bridge
- Donna-Rio Bravo Bridge
- Progreso Bridge

Or for movement on the following roads:

- (1) U.S. Highway 281 between its intersection with Pharr-Reynosa International Bridge and its intersection with State Highway 336.
- (2) State Highway 336 between its intersection with U.S. Highway 281 and its intersection with Farm-to-Market Road 1016.
- (3) Farm-to-Market Road 1016 between its intersection with State Highway 336 and its intersection with Trinity Road.
- (4) Trinity Road between its intersection with Farm-to-Market Road 1016 and its intersection with Farm-to-Market Road 396.
- (5) Farm-to-Market Road 396 between its intersection with Trinity Road and its intersection with the Anzalduas International Bridge.
- (6) Farm-to-Market Road 2061 between its intersection with Farm-to-Market Road 3072 and its intersection with U.S. Highway 281.
- (7) U.S. Highway 281 between its intersection with the Pharr-Reynosa International Bridge and its intersection with Spur 29.
- (8) Spur 29 between its intersection with U.S. Highway 281 and its intersection with Doffin Canal Road.
- (9) Doffin Canal Road between its intersection with the Pharr-Reynosa International Bridge and its intersection with Spur 29.
- (10) FM 2557 (Stewart Road) from US 281/Military Highway to Interstate 2 (US 83).
- (11) FM 3072 (Dicker Road) from Veterans Boulevard ('I' Road) to Cesar Chavez Road.
- (12) US 281 (Cage Boulevard) from US 281/Military Highway to Anaya Road.
- (13) US 281/Military Highway from Spur 29 to FM 1015.
- (14) Farm to Market 1015 - Progreso International Bridge to Mile 9 North.
- (15) US 83 Business - Farm to Market 1015 to South Bridge Avenue.
- (16) Doffing Road from the BSIF Exit at Spur 29 south and then east a distance of 0.8 miles.

The gross weight of cargo and equipment shall not exceed the allowable permissible axle load, the Mexican Legal Weight Limit or 125,000 lbs, whichever is less, and the dimensions of the load and vehicle shall not exceed 12ft wide, 16ft high, or 110ft long.



OVERWEIGHT / OVERSIZE CORRIDOR SEGMENTS



OVERWEIGHT / OVERSIZE CORRIDOR SEGMENTS MAP



MONTHLY OVERWEIGHT REPORT:

December 1, 2024 – December 31, 2024

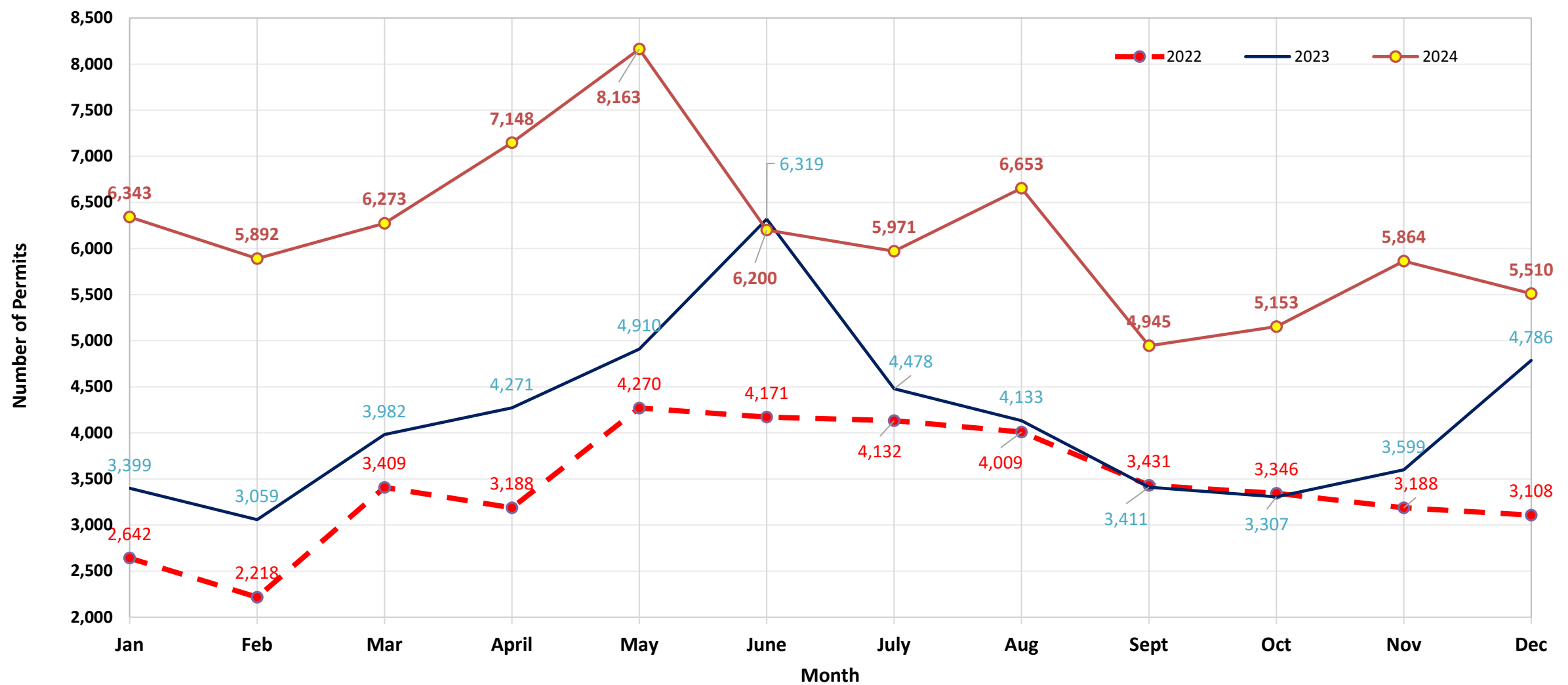
Total Permits Issued:	5,510
Total Amount Collected:	\$ 1,126,114
■ Convenience Fees:	\$ 24,114
■ Total Permit Fees:	\$ 1,102,000
– Pro Miles:	\$ 16,530
– TxDOT (On system):	\$ 923,752
– Local (Off system):	\$ 12,949
– HCRMA:	\$ 148,770

*Effective November 13, 2017, permit fee increased from \$80 to \$200



Latest 3-Years monthly permit Comparison

Overweight/Oversized Permit Count
2022 - 2024 Monthly Comparison



YEARLY OVERWEIGHT REPORT:

January 1, 2024 – December 31, 2024

Total Permits Issued:	74,115
Total Amount Collected:	\$ 14,022,614
■ Convenience Fees:	\$ 301,614
■ Total Permit Fees:	\$ 13,721,000
– Pro Miles:	\$ 205,815
– TxDOT (On system):	\$ 11,630,794
– Local (Off system):	\$ 32,056
– HCRMA:	\$ 1,852,335

*Effective November 13, 2017, permit fee increased from \$80 to \$200



ACCUMULATED OVERWEIGHT REPORT:

January 1, 2014 – December 31, 2024

Total Permits Issued:	388,823
Total Amount Collected:	\$ 68,234,560.00
■ Convenience Fees:	\$ 1,355,760.00
■ Total Permit Fees:	\$ 66,878,800.00
– Pro Miles:	\$ 1,140,639.00
– TxDOT (On system):	\$ 56,814,924.00
– Local (Off system):	\$ 32,056.35
– HCRMA:	\$ 8,891,181.00



OUTREACH UPDATES

PAST PRESENTATIONS

- ❑ RGV Partnership Presentation December 19, 2024
- ❑ Bridge Connect Session January 16, 2025

UPCOMING PRESENTATIONS/MEETINGS:

- ❑ I-69 Connector Public Scoping Meeting (TxDOT) January 21, 2025
- ❑ City of Pharr Partners in Development January 24, 2025
- ❑ City of McAllen CC Workshop Presentation January 27, 2025
- ❑ South Texas Manufacturing Association Presentation January 28, 2025
- ❑ RGV International Rail Conference January 30-31, 2025



This Page
Intentionally
Left Blank

Item 2B

HIDALGO COUNTY REGIONAL MOBILITY AUTHORITY

AGENDA RECOMMENDATION FORM

BOARD OF DIRECTORS	<u> X </u>	AGENDA ITEM	<u> 2B </u>
PLANNING COMMITTEE	<u> </u>	DATE SUBMITTED	<u> 1/17/2025 </u>
FINANCE COMMITTEE	<u> </u>	MEETING DATE	<u> 1/24/2025 </u>
TECHNICAL COMMITTEE	<u> </u>		

1. Agenda Item: **REPORT ON CONSTRUCTION ACTIVITY FOR THE 365 TOLLWAY PROJECT.**
2. Nature of Request: (Brief Overview) Attachments: X Yes No
Report on 365 Tollway Construction Activities.
3. Policy Implication: Board Policy, Local Government Code, Texas Government Code, Texas Transportation Code, TxDOT Policy
4. Budgeted: Yes No X N/A
5. Staff Recommendation: **Report only.**
6. Program Manager's Recommendation: Approved Disapproved X None
7. Planning Committee's Recommendation: Approved Disapproved X None
8. Board Attorney's Recommendation: Approved Disapproved X None
9. Chief Auditor's Recommendation: Approved Disapproved X None
10. Chief Financial Officer's Recommendation: Approved Disapproved X None
10. Chief Development Engineer's Recommendation: Approved Disapproved X None
11. Chief Construction Engineer's Recommendation: X Approved Disapproved None
12. Executive Director's Recommendation: X Approved Disapproved None



BOARD OF DIRECTORS MEETING JANUARY 2025

HCRMA Board of Directors

Robert L. Lozano, Chairman

Ezequiel Reyna, Jr., Vice Chairman

Juan Carlos Del Angel, Secretary / Treasurer

Sergio Saenz, Director

Francisco “Frank” Pardo, Director

Michael J. Williamson, Director

HCRMA Administrative Staff

Pilar Rodriguez, PE, Executive Director

Ramon Navarro IV, PE, CFM, Chief Constr. Eng.

Ruben Alfaro, PE, Development Eng.

Celia Gaona, CIA, Chief Auditor/Compliance Off.

Jose Castillo, Chief Financial Off.

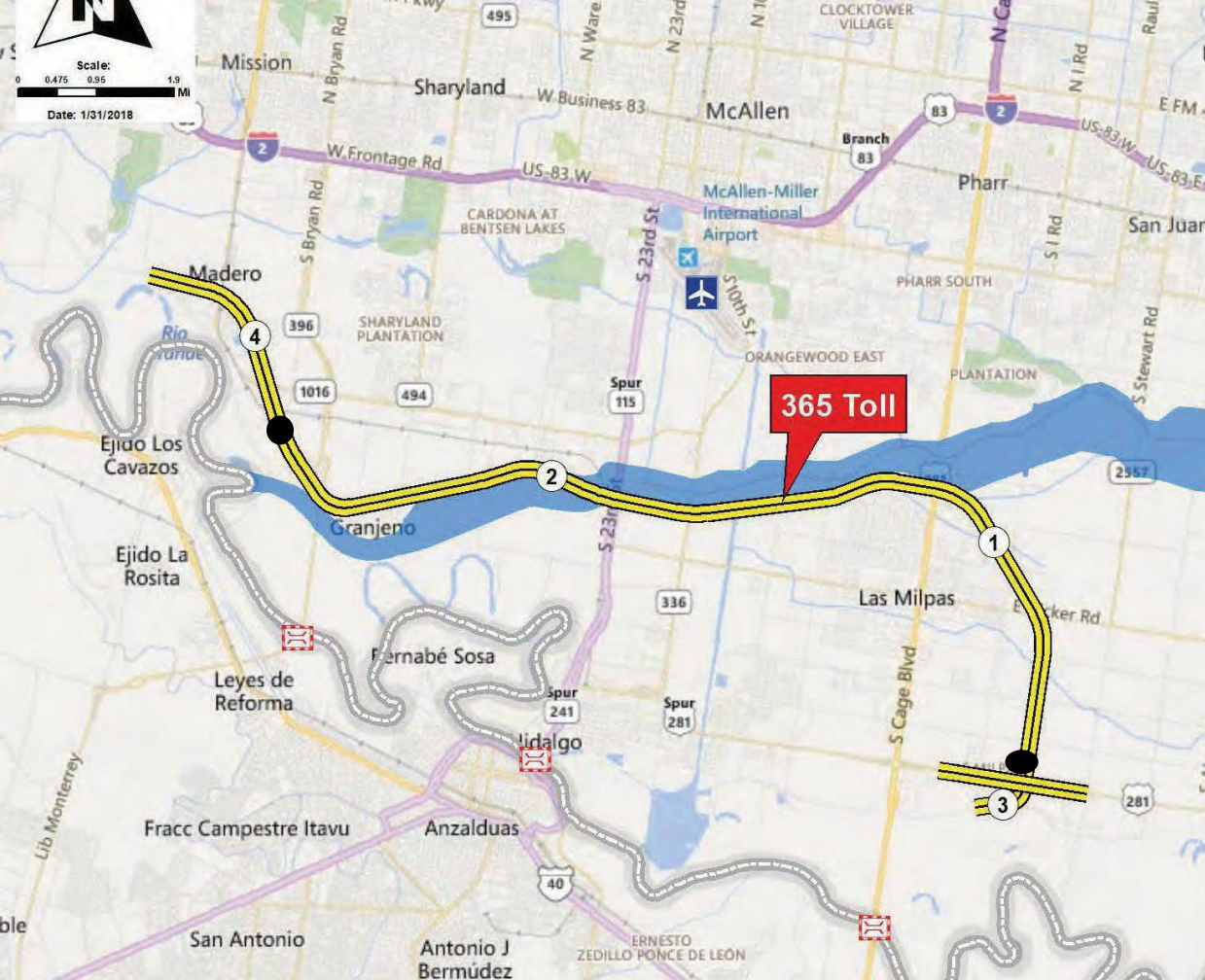
General Engineering Consultant

HDR Engineering, INC.

www.hcrma.net

**Report on HCRMA Construction Activities
Chief Construction Engineer – Ramon Navarro IV, PE, CFM**





MAJOR MILESTONES:

NEPA CLEARANCE

07/03/2015

PH 1: 365 SEG. 3

LET: 08/2015

COMPLETED

PH 2: 365 TOLL

SEGS. 1 & 2

LET: 11/2021

OPEN: 01/2026

[SEGS. 1 & 2] LIMITS FROM 0.8 MI. W. FM 396 / ANZ. HWY.
TO US 281 / BSIF CONNECTOR [365 SEG. 3 COMPLETED]
[SEG. 4 FUTURE] LIMITS FROM FM 1016 / CONWAY
TO 0.8 MI. W. FM396 / ANZALDUAS HIGHWAY



HIDALGO COUNTY REGIONAL MOBILITY AUTHORITY

PLANS OF PROPOSED ROADWAY IMPROVEMENT

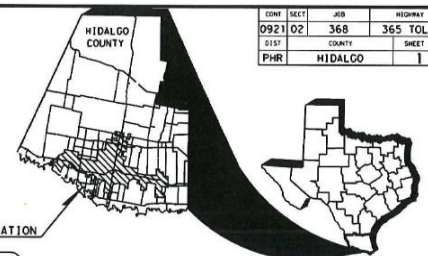
FEDERAL AID PROJECT NO. DMO 2013 (420)

365 TOLL

LEVEE RELOCATION:
12,232.62 FT ± 2.32 MI.

PROJECT LENGTH:
ROADWAY: 58,504.54 FT ± 11.08 MI.
BRIDGE: 5,042.00 FT ± 1.14 MI.
TOTAL: 64,546.54 FT ± 12.22 MI.

LIMITS:
FROM: FM 396 (ANZALDUAS HWY) & GSA CONNECTOR
TO: US 281 (MILITARY HIGHWAY)



PROJECT LOCATION

FINAL PLAN DATA:

FINAL CONTRACT PRICE:
CONTRACTORS NAME:
CONTRACTORS ADDRESS:
LETTING DATE:
DATE WORK BEGAN:
DATE WORK COMPLETED:
DATE OF ACCEPTANCE:
CHANGE ORDERS & SUPP. AGREEMENTS:

SCALE: 1"=2 MI.

A NEW ROADWAY CONSISTING OF GRADING, FLEXIBLE BASE, LIME TREATED SUBGRADE, ASPHALTIC CONCRETE PAVEMENT, CRCP, RETAINING WALLS, CULVERTS, IRRIGATION STRUCTURES, BRIDGE STRUCTURES, TRAFFIC SIGNALS, ILLUMINATION, SIGNING, PAVEMENT MARKINGS, TOLL GANTRIES, TOLL EQUIPMENT, FIBER OPTIC NETWORK, CCTV CAMERAS, VEHICLE DETECTION SYSTEM, BLUETOOTH, DYNAMIC MESSAGE SIGNS, WIRELESS ANTENNAS, ITS POLES, ITS CABINETS, GROUND BOXES, CONDUITS, AND LEVEE RELOCATION



LEGEND
--- CITY LIMITS
● INCIDENTAL CONSTRUCTION

ROADWAY OF INCIDENTAL CONSTRUCTION	BEGIN INCIDENTAL CONSTRUCTION	END INCIDENTAL CONSTRUCTION
1 365 TOLL EB FRIG RD	STA 20639+85.55	STA 20650+06.81
2 GSA CONNECTOR	STA 105+59	STA 120+62
3 FM 494 (SHARY RD)	STA 139+25	STA 153+43
4 SP 115 (23rd ST)	STA 226+30	STA 236+22.93
5 MCCOLL ROAD	STA 29+50	STA 51+50
6 FM 2061 (JACKSON RD)	STA 12+00	STA 22+72
7 US 281 (CAGE RD)	STA 12+00	STA 21+32
8 FM 3072 (DICKER RD)	STA 12+60	STA 29+86
9 ANAYA ROAD	STA 17+80	STA 27+40
10 HI-LINE ROAD	STA 27+40	STA 17+80
11 US 281 (MILITARY RD)	STA 10100+00	STA 10227+00
12 BSIF CONNECTOR	STA 1302+18	STA 1358+00

ALL CONSTRUCTION WORK WAS PERFORMED IN ACCORDANCE WITH THE PLANS, SPECIFICATIONS AND CONTRACT. ALL PROPOSED CONSTRUCTION WAS COMPLETED UNLESS OTHERWISE NOTED.

PROJECT DATA

DESIGN SPEED:	70 MPH	RAILROAD CROSSINGS: NONE
MAINLANES	50 MPH	EQUATIONS:
FRONTAGE ROADS	45 MPH	STA 1080+25.77 BK ±
RAMPS	30 MPH	STA 1080+00.00 AH
GSA CONNECTOR	30 MPH	EXCEPTIONS: NONE
GLASSCOCK ROAD	30 MPH	FUNCTION CLASS:
FM 494 (SHARY RD)	55 MPH	PRINCIPAL ARTERIAL (FREEWAY)
WARE ROAD	30 MPH	BRIDGE:
SP 115 (23RD ST)	55 MPH	TOTAL = 23 BRIDGES
SH 336 (10TH ST)	60 MPH	(SEE INDEX SHEET FOR DETAILS)
MCCOLL ROAD	50 MPH	TOLL INSPECTION SHALL
FM 2061 (JACKSON RD)	55 MPH	NOT BE REQUIRED
FM 281 (CAGE RD)	55 MPH	
FM 3072 (DICKER RD)	55 MPH	
ANAYA ROAD	30 MPH	
HI-LINE	45 MPH	

REGISTERED ACCESSIBILITY SPECIALIST (RAS) INSPECTION REQUIRED.

TDLR No. EABPRJ

SPECIFICATIONS ADOPTED BY THE TEXAS DEPARTMENT OF TRANSPORTATION ON NOVEMBER 1, 2014 AND SPECIFICATION ITEMS LISTED AND DATED AS FOLLOWS SHALL GOVERN ON THIS PROJECT. REQUIRED CONTRACT PROVISIONS FOR FEDERAL-AID CONSTRUCTION CONTRACTS (FORM FHWA 1273, MARCH 2012).

365 TOLL

LOCAL ENTITIES

HIDALGO COUNTY CONCURRENCE: DATE: NAME: TITLE:

HIDALGO COUNTY DRAINAGE DISTRICT NO. 1 CONCURRENCE: DATE: NAME: TITLE:

CITY OF MISSION CONCURRENCE: DATE: NAME: TITLE:

CITY OF MCALLEN CONCURRENCE: DATE: NAME: TITLE:

CITY OF PHARR CONCURRENCE: DATE: NAME: TITLE:

CITY OF SAN JUAN CONCURRENCE: DATE: NAME: TITLE:

I.B.W.C. CONCURRENCE: DATE: NAME: TITLE:

ACID NO. 2 IRRIGATION DISTRICT CONCURRENCE: DATE: NAME: TITLE:

ACID NO. 19 IRRIGATION DISTRICT CONCURRENCE: DATE: NAME: TITLE:

H.C.W.C. & I.D. NO. 3 CONCURRENCE: DATE: NAME: TITLE:

APPROVED FOR LETTING: APPROVED FOR LETTING: 6-20-19

HCRMA, CHAIRMAN HCRMA, EXECUTIVE DIRECTOR

APPROVED FOR LETTING: APPROVED FOR LETTING: 6/20/19

HCRMA, CHIEF CONSTRUCTION ENGINEER HCRMA, CHIEF DEVELOPMENT ENGINEER

APPROVED FOR LETTING: SUBMITTED FOR LETTING: 6/14/19

TxDOT, DISTRICT ENGINEER DANNENBAUM ENGINEERING, PROGRAM MANAGER

SUBMITTED FOR LETTING: 6/14/19 SUBMITTED FOR LETTING: 6/15/19

L&G ENGINEERING, PROJECT MANAGER S&B INFRASTRUCTURE, PROJECT MANAGER

SUBMITTED FOR LETTING: 6/14/19

TESDI INFRASTRUCTURE GROUP, PROJECT MANAGER

HCRMA
HIDALGO COUNTY REGIONAL MOBILITY AUTHORITY

DANNENBAUM
ENGINEERING CORPORATION
T.B.P.E. FIRM REGISTRATION #392
1108 MC LANE, LUGO, TEXAS 75845-1000, TX PHONE (806) 662-0077

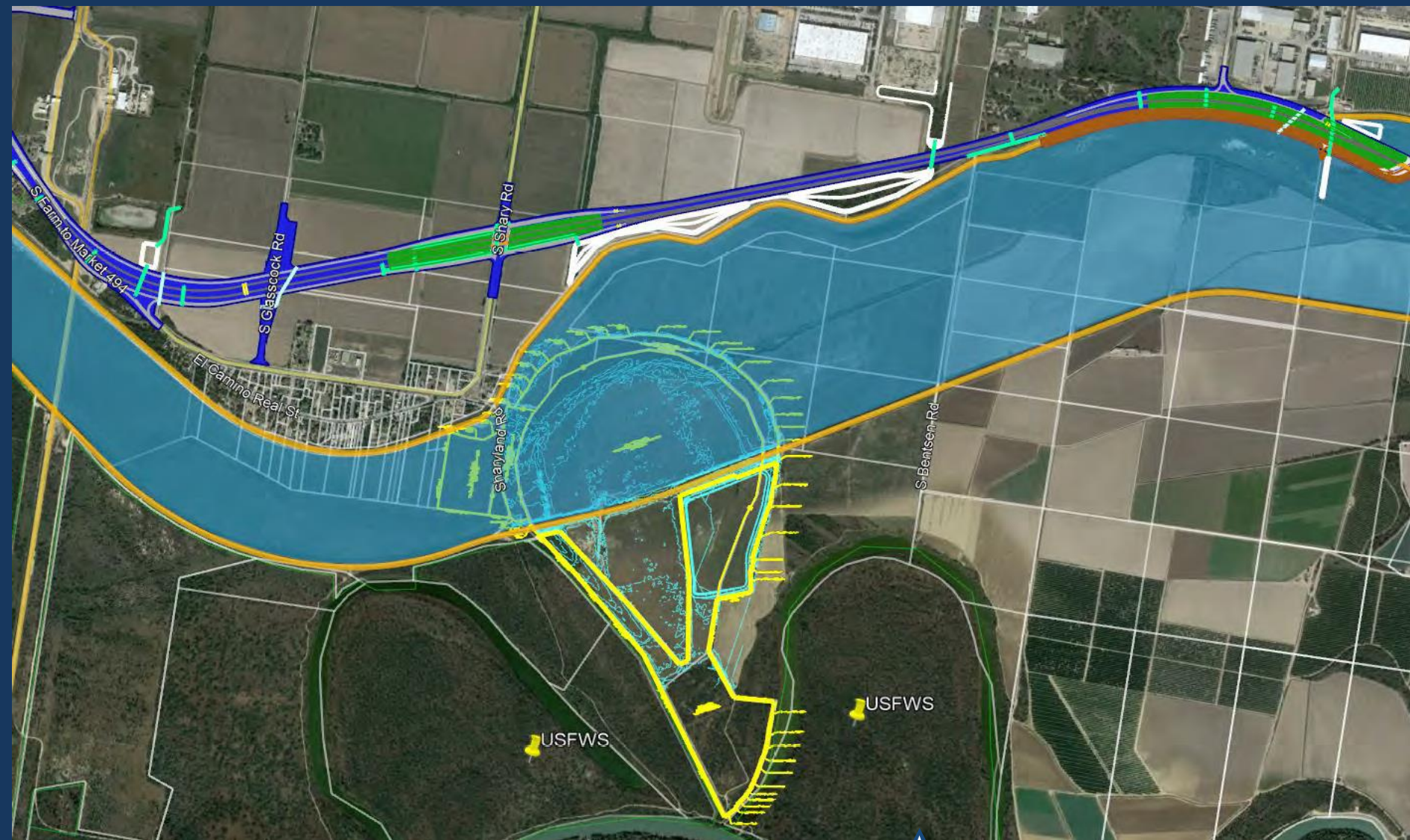
L&G Engineering
Highway & Civil
Structural & Bridge
Environmental
Form No. 1-0-0308

S&B
INFRASTRUCTURE, LTD.
TEXAS BOARD OF PROFESSIONAL ENGINEERS # 7-1992

TESDI
INFRASTRUCTURE GROUP
Consulting Engineers
1000 E. Highway 10
Suite 1000
Dallas, Texas 75201
(214) 641-7700

This sheet was not changed as part of the VECP design process and remains in its original IFC State.

WETLAND MITIGATION SITE



Memo

Date: Monday, September 09, 2024

Project: Granjeno Wetland Mitigation Project

To: Eric S. Anderson, MitRes Services, LLC

CC: Ramon Navarro, Pilar Rodriguez, Eric Slusser

From: Samuel Saldivar, Jr., P.E., GEC Project Manager

Subject: Construction Notice-to-Proceed

This memo serves as MitRes Services, LLC's (Contractor) formal notice-to-proceed with the construction of the proposed Granjeno Wetland Mitigation site improvements (Project) in Granjeno, Texas pursuant to the Agreement executed on August 13, 2024 by the Hidalgo County Regional Mobility Authority, as amended. The Project's work is subject to and shall be in compliance with USACE Individual Permit No. SWG=2013-00175.

The work under this contract shall be substantially completed within one hundred and fifty calendar days January 15, 2025 and commence within thirty days of this notice-to-proceed. After Substantial Completion, Contractor will be allowed up to an additional thirty days for Final Acceptance. All Improvements must be final accepted by February 14, 2025. Working days will be charged Sunday through Saturday, including all holidays [with exception of: New Year's Day (January 1st); Independence Day (July 4th); Labor Day (1st Monday in the month of September); Thanksgiving Day and day after (4th Thursday and Friday in the month of November); and Christmas Eve and Day (December 24th and 25th)], regardless of weather conditions, material availability, or other conditions not under the control of the Contractor, except as expressly provided for in the Contract. If Contractor fails to complete the work on or before the contract time, Contractor agrees to pay the Authority \$1,000 per day as liquidated damages to cover losses, expenses, and damages of the Authority for every Calendar Day which the Contractor fails to achieve Substantial Completion of the Project.

Contractor shall provide proper security for the Project and shall take reasonable precautions and provide protection to prevent damage, injury, or loss to the work, materials, and equipment to be incorporated therein, as well as all other property at or on the site, whether owned by the Contractor, the Authority, or any other person. Contractor, at no additional cost to Authority, shall maintain, repair, rebuild, restore, or replace all work, documents, deliverables, materials, equipment, or supplies which are created, purchased, or acquired as part of the Project or for use during construction that is injured or damaged prior to Substantial Completion. Thereafter, Contractor shall assume responsibility for defective work during the one-year correction period as specified under General Conditions paragraph 15.08.

We look forward to the successful completion of this Project.



Memo

Date: Tuesday, January 14, 2025

Project: Granjeno Wetland Mitigation Project

To: Eric S. Anderson, MitRes Services, LLC

CC: Ramon Navarro, Pilar Rodriguez, Eric Slusser

From: Samuel Saldivar, Jr., P.E., GEC Project Manager



Subject: Construction Notice-to-Proceed

This memo aligns the notice-to proceed with the full execution date of the contract agreement (Contract No. 01-C60-24-01) and the contract terms and conditions. September 16, 2024 serves as MitRes Services, LLC's (Contractor) notice-to-proceed for Granjeno Wetland Mitigation site improvements (Project) in Granjeno, Texas pursuant to the Agreement partially executed on August 13, 2024 and fully executed by the Hidalgo County Regional Mobility Authority on September 9, 2024, as amended. The Project's work is subject to and shall be in compliance with USACE Individual Permit No. SWG=2013-00175.

The work under this contract shall be substantially completed within one hundred and fifty calendar days February 18, 2025 and commence within thirty days of this notice-to-proceed. After Substantial Completion, Calendar will be allowed up to an additional thirty days for Final Acceptance. All Improvements must be final accepted by March 20, 2025. Working days will be charged Sunday through Saturday, including all holidays [with exception of: New Year's Day (January 1st); Independence Day (July 4th); Labor Day (1st Monday in the month of September); Thanksgiving Day and day after (4th Thursday and Friday in the month of November); and Christmas Eve and Day (December 24th and 25th)], regardless of weather conditions, material availability, or other conditions not under the control of the Contractor, except as expressly provided for in the Contract. If Contractor fails to complete the work on or before the contract time, Calendar agrees to pay the Authority \$1,000 per day as liquidated damages to cover losses, expenses, and damages of the Authority for every Calendar Day which the Contractor fails to achieve Substantial Completion of the Project.

Calendar shall provide proper security for the Project and shall take reasonable precautions and provide protection to prevent damage, injury, or loss to the work, materials, and equipment to be incorporated therein, as well as all other property at or on the site, whether owned by the Contractor, the Authority, or any other person. Contractor, at no additional cost to Authority, shall maintain, repair, rebuild, restore, or replace all work, documents, deliverables, materials, equipment, or supplies which are created, purchased, or acquired as part of the Project or for use during construction that is injured or damaged prior to Substantial Completion. Thereafter, Calendar shall assume responsibility for defective work during the one-year correction period as specified under General Conditions paragraph 15.08.



Item No.	Description	\$
A-1	Mobilization and Demobilization	\$ 497,611.09
A-2	Well and Pump - 550GPM Capacity (including site pad, grading, building, new power connection, instrumentation, controls, and integration)	\$ 977,100.65
A-3	Planting (procurement, storage, delivery, installation, protection, maintenance)	\$ 102,974.50
A-4	Storm Water Pollution Prevention Plan (permitting, installation, maintenance, removal)	\$ 63,453.98
Total of All Lump Sum Bid Items		\$ 1,641,140.23

Item No.	Description	Unit	Estimated Quantity	Bid Unit Price	Bid Amount
B-1	6-inch PVC Waterline	LF	2,700	\$ 311.92	\$ 810,686.59
B-2	Excavation	CY	178,000	\$ 5.90	\$ 1,050,223.19
B-3	Embankment (Planting Soil)	CY	73,000	\$ 1.41	\$ 102,940.98
B-4	Embankment (Clay Liner)	CY	87,000	\$ 0.68	\$ 58,746.18
B-5	Embankment (Subbase)	CY	110,000	\$ 14.79	\$ 1,626,428.57
B-6	Clearing / Grubbing	AC	25	\$ 3,476.45	\$ 86,911.16
B-7	Grate Inlet	EA	1	\$ 31,500.00	\$ 31,500.00
B-8	18-inch RCP	LF	100	\$ 2,461.42	\$ 246,141.64
B-9	15-foot wide Access Road	SY	7,000	\$ 28.04	\$ 196,275.33
Total of All Unit Price Bid Items					\$ 4,209,853.64

Total Bid Price (Total of all Lump Sum and Unit Price Bids)	\$ 5,850,993.87
---	-----------------

Note: Subject to Change in the event a Project Revision is agreed.



HCRMA
HIDALGO COUNTY REGIONAL MOBILITY AUTHORITY



Bi-Weekly Status Report

HCRMA – Granjeño Mitigation Wetland Project, Hidalgo County, Texas

1/17/2025	Submittal of Bi-weekly report.
1/16/2025	Weekly Granjeño Construction meeting conference call cancelled.
1/15/2025	Received email from Mr. Adam Lethco of MitRez detailing the final list of seeds and bare root seedlings acquired for the Granjeno mitigation site. Additionally, copies of email correspondence between MitRez and ICF was also included.
1/9/2025	<p>Weekly Granjeño Construction meeting conference call.</p> <p>Conference call between personnel from HCRMA (Ramon Navarro), HDR (Sam Saldivar, Ruben Alfaro, Dan Paredes, and Hunter Balbin), MitRez (Jonathan Crawford, Jon Phillips, Bryce Fuller, Brad Tilbury, Dustin Fitzgerald, and Adam Lethco), and ICF (Doug Hagemeyer, Jill Noel, and Clay Fischer). Issues of discussion included:</p> <p>Safety Topic:</p> <p>Maintaining proper pressure in tires.</p> <p>Discussions:</p> <p>No safety instances/issues to report.</p> <p>HDR forwarded revised drawings of water dissipators to MitRez.</p> <p>HDR and MitRez discussed how to control water pressure on water well pipe to wetland.</p> <p>MitRez asked if board approval was going to be needed for requested change order made by HCRMA/HDR regarding changes in water piping/valves. HDR indicated board approval was not necessary.</p> <p>Outstanding Requests for Information:</p> <p>MitRez requested that schedule 40 commercial piping be used for fencing instead of schedule 80 indicated in bid listing.</p> <p>MitRez asked if HCRMA/HDR had any questions or could give status of Control panel and plumbing bill submittals.</p>

5 Lakeway Centre Court, Suite 200, Austin, TX 78734 USA +512.264.1095 icf.com



HCRMA
HIDALGO COUNTY REGIONAL MOBILITY AUTHORITY

	<p>MitRez asked that the project billing notes be revised to show that work began on 9/16/24 and would be complete on 3/20/25.</p> <p>MitRez requested status of submittal regarding payment for November/December.</p> <p>MitRez requested information/drawings of valve location/type of be added for neighboring property.</p> <p>HDR requested information on status of AEP pole movement/replacement. MitRez indicated that conversations were in progress. AEP indicated an interest to get completed as soon as possible.</p> <p>Progress to date since last meeting reported by MitRez:</p> <p>MitRez stated that some material tested by B2Z had failed due to water content values. They have revised how they are handling the material and will have B2Z return this week to re-test.</p> <p>MitRez stated that plants have been acquired and were in route.</p> <p>MitRez stated that discussions with entities to install plants were underway.</p> <p>Email from Clay Fischer (ICF) to Adam Lethco of MitRez requesting an updated list of plants/seeds enroute to the site.</p> <p>Email from Clay Fischer (ICF) to HDR (Sam Saldivar and Rueben Alfaro) explaining ICF's efforts in locating plants/seed for the project and requesting information regarding identification of entity managing/operating water pump during/after planting.</p>
1/2/2024	Weekly Granjeño Construction meeting conference call cancelled.
12/26/2024	Weekly Granjeño Construction meeting conference call cancelled.

Employee and Contact Information

Doug Hagemeyer (Project Manager) (737) 272-6781

Jill Noel (Deputy Project Manager/Biologist) (512) 468-9874

Clay V. Fischer (Deputy Project Manager/Biologist) (512) 592-8591



Bi-Weekly Project Report

Overall Status: **In-Progress**

Project Name: HCRMA Granjeno Wetland

1/10/2024

Work accomplished in the last two weeks:	<ul style="list-style-type: none">- MitRes has processed and placed roughly 35,000 cubic yards of clay- J&S Water Wells is continuing to flush and clean the well- MitRes has completed a one-foot lift of clay across the entire North section- MitRes has had B2Z on-site to collect two samples for the clay embankment liner- B2Z has conducted ten compaction tests 12" deep across a 564,077 sqft area- AEP has completed the design for the power poles near the levee access road and the well pad area- MitRes received the full CAD files and additional detail for dissipators on 01/08/2025
Projected work to be accomplished over the next two weeks:	<ul style="list-style-type: none">- MitRes will continue to fill the clay embankment liner compaction in the North area- MitRes will begin quarrying from the south end and stockpiling on the North area- J&S will continue flushing the well until clean- MitRes will continue working with AEP/ TXU- B2Z Engineering will continue visiting the site to measure compaction and moisture- Plumbers will mobilize in to begin work- MitRes and HDR will work together to finalize new December invoice that coordinates with new change order items, rates, and quantities
Vendors On-Site	<ul style="list-style-type: none">- Delta Fuel, Southern Transport, Doggett Machinery, Big John Site Service, L4 Security Services, Skyco LLC., Dumpster, J&S, & B2Z Engineering, Texas First Rentals
Issues:	<ul style="list-style-type: none">- Final determination of well pump controls
Update on any previously reported issues:	
MitRes Responsibilities:	<ul style="list-style-type: none">- MitRes owes HCRMA the Electrician Materials Submittal- MitRes owes HCRMA the Vegetation Detail Submittal- MitRes owes HDR an RFI for additional Tie-In Valve for the neighboring farmer

MITRES SERVICES



HCRMA
HIDALGO COUNTY REGIONAL MOBILITY AUTHORITY

HCMA Responsibilities:

- HCMA owes payment for September and October invoices
- HCMA will seek approval of November and December invoices at board meeting in January
- HCMA will seek approval of the change order to reduce overall project cost

HCMA Granjeno Wetland- Mitigation Project MitRes Schedule

Description	Item	Completion Date	Status
Notice to Proceed	-	9/9/2024	Completed
MitRes Mobilization	-	9/16/2024	Completed
Reports	Existing Conditions	10/24/2024	Completed
Reports	Progress Documentation 1	9/27/2024	Completed
Submittals	Driller Materials Submittal	11/22/2024	Submitted
Reports	Progress Documentation 2	10/18/2024	Completed
Submittals	Plumber Materials Submittal	12/11/2024	Submitted
Reports	Progress Documentation 3	11/2/2024	Completed
Submittals	Electrician Materials	1/17/2025	Requested
Reports	Progress Documentation 4	11/19/2024	Completed
Reports	Progress Documentation 5	11/29/2024	Completed
Reports	Progress Documentation 6	12/20/2024	Completed
Reports	Progress Documentation 7	1/9/2025	Completed
Reports	Progress Documentation 8	1/24/2025	Not Started
Reports	Progress Documentation 9	2/7/2025	Not Started
Reports	Progress Documentation 10	2/21/2025	Not Started
Reports	Progress Documentation 11	3/7/2025	Not Started
Reports	Progress Documentation 12	3/21/2025	Not Started
Reports	Final Closeout	3/27/2025	Not Started
Substantial Completion Milestones	Excavation	12/20/2024	Completed
	Drill Well	11/25/2024	Completed
	Well Pump Install	2/14/2025	In Progress
	Embankment Liner	2/12/2025	In Progress
	Planting Soil Replacement	2/28/2025	Not Started
	Water Delivery	3/10/2025	In Progress
Final Completion	Project	3/20/2025	In Progress

MITRES SERVICES



MitRES Services										
Contractor's Application for Payment		HCRMA						Owner's Project No.: 10334419		
Engineer: Samuel Saldivar Contractor: MitRes Services Project: Granjeño Mitigation Site Contract: Restoration of 23.88 acres of land, including wetland								Engineer's Project No.: 10334419		
								Contractor's Project No.: 42106		
Original Contract Amount		\$ 5,850,993.87								
	Change Order 1	\$ (187,915.96)								
	Revised Total	\$5,663,077.91								
A	B			C	D	E	F	G	H	I
Application No.:	Date	Date From	Date To	Total Work Completed and materials stored to date	10% Retainage	Amount eligible to date	Less previous paymets	Amount due this application	Balance to finish including retainage	% of work completed
001	11/7/2024	9/9/2024	9/30/2024	\$ 209,242.14	\$ 20,924.21	\$ 188,317.94	\$ -	\$ 188,317.93	\$ 5,662,675.94	3.22%
002	11/7/2024	10/1/2024	10/31/2024	\$ 519,077.04	\$ 51,907.70	\$ 467,169.34	\$ 188,317.93	\$ 278,851.41	\$ 5,383,824.53	4.77%
003	12/3/2024	11/1/2024	11/30/2024	\$ 1,628,481.67	\$ 162,848.17	\$ 1,465,633.50	\$ 467,169.34	\$ 998,464.16	\$ 4,385,360.37	17.06%
004	1/16/2025	12/1/2024	12/31/2024	\$ 2,649,205.04	\$ 264,920.50	\$ 2,384,284.54	\$ 1,465,633.50	\$ 918,651.04	\$ 3,278,793.37	16.22%
									-	-
									-	-
									-	-
									-	-
									-	-
									-	-
									-	-
									-	-
									-	-
									-	-
									-	-
									-	-
									-	-
									-	-
									-	-
									-	-
TOTALS				\$ 5,006,005.89	\$ 500,600.58	\$ 2,384,284.54	\$ 1,465,633.50	\$ 2,384,284.54	\$ 3,278,793.37	41.27%



Photo-Point 2: Above the planting soil pile looking Northeast



Photo-Point 3: Above the planting soil pile looking East

MITRES SERVICES



Photo-Point 12: View of planting soil stockpile looking Southeast



Photo-Point 13: View of planting soil stockpile looking North

MITRES SERVICES



365 TOLLWAY COLLECTION SYSTEM INSTALLATION, INTEGRATION & MAINTENANCE PROJECT

SEPTEMBER 8, 2022

OCTOBER 3, 2022

DECEMBER 9, 2022

DECEMBER 16, 2022

FEBRUARY 6, 2023

FEBRUARY 14, 2023

FEBRUARY 28, 2023

MARCH 13, 2023

MARCH 14, 2023

MARCH 28, 2023

OCTOBER 28, 2023

MARCH 26, 2024

- Request for Proposals was released
- Mandatory Pre-Bid meeting conducted with in-Person or Virtual Attendance option
- Five Proposals received for the 365 Toll Collection System, Integration, and Maintenance Project
- Compliance reviews conducted on all electronic bids
- Evaluation committee (HCRMA staff and HDR [GEC]) thoroughly reviewed proposals and conducted oral presentation, in accordance with RFP's two-step scoring process
- Proposal bid prices opened, evaluated, scored by evaluation committee
- First Executive Briefing
- Second Executive Briefing
- Negotiation of contract terms, condition, & BAFO
- Award of contract to SICE, Inc. for \$13,980,669 with a score of 905
- Single Gantry amendment
- CO#1 \$645,170 for Single Gantry Implementation

Payment Item	Schedule	Milestone	Payment Amount Description	Total Amount (Includes all individual payments made on each	To date	% completion
1	N/A	Contract Signature and Payment & Performance Bond submission	8% of the delivery cost excluding the Project Management Fee	\$553,973.04	\$553,973.04	100%
2	A	Submission of documents in "Schedule A - Implementation"	46% of items 1 through 35 milestones in Schedule A upon SICE's submission of each milestone	\$534,639.60	\$332,664.64	62%
3	A	Approval of documents in "Schedule A - Implementation"	46% of items 1 through 35 milestones in Schedule A upon HCRMA's approval of each milestone	\$534,639.60	\$289,101.26	54%
4	A	Approval of other items in "Schedule A - Implementation"	92% of items 36 through 63 milestones in Schedule A upon proof of completion submitted to HCRMA	\$237,614.84	\$0.00	0%
5	A	Project Management Monthly Fee	100% of the monthly fee every month (\$38,742.00 each month)	\$1,162,260.00	\$697,356.00	60%
6	B	Approval of shop drawings of each site in "Schedule B - Hardware" items 1 to 9	25% for items 1 through 9 in Schedule B - Hardware upon approval of the tolling equipment shop drawings. Procurement	\$846,602.25	\$0.00	0%
7	B	FAT for RSE in "Schedule B - Hardware" items 1 to 9	11% for items 1 through 9 in Schedule B - Hardware upon Commencement of FAT for RSE	\$372,504.99	\$0.00	0%
8	B	FAT for RSE in "Schedule B - Hardware" items 1 to 9	11% for items 1 through 9 in Schedule B - Hardware upon approval of FAT for RSE	\$372,504.99	\$0.00	0%
9	B	Beginning of the Installation Work for each site in "Schedule B - Hardware"	15% for items 1 through 9 in Schedule B - Hardware upon beginning of the works	\$507,961.35	\$0.00	0%
10	B	Completion of Installation Work for each site in "Schedule B - Hardware"	15% for items 1 through 9 in Schedule B - Hardware upon completion of the installation of each site	\$507,961.35	\$0.00	0%
11	B	SAT for each site in "Schedule B - Hardware" items 1 to 9	10% for items 1 through 9 in Schedule B - Hardware upon SAT of each site is approved	\$338,640.90	\$0.00	0%
12	B	Final Acceptance for each site in "Schedule B - Hardware" items 1 to 9	5% for items 1 through 9 in Schedule B - Hardware upon Final Acceptance of each site	\$169,320.45	\$0.00	0%
13	B	Mobilization on site for each site in "Schedule B - Hardware" items 10 to 18	50% for items 10 through 18 in Schedule B - Hardware upon beginning of the works	\$498,685.00	\$0.00	0%
14	B	Completion of Installation Work for each site in "Schedule B - Hardware"	42% for items 10 through 18 in Schedule B - Hardware upon completion of the civil works of each site	\$418,895.40	\$0.00	0%
15	B	Shop drawings for each site in "Schedule B - Hardware" items 19 & 20	35% for items 19 & 20 in Schedule B - Hardware upon approval of the servers shop drawings. Procurement	\$137,833.85	\$0.00	0%
16	B	Installation on site for each site in "Schedule B - Hardware" items 19 & 20	32% for items 19 & 20 in Schedule B - Hardware upon physical installation of servers on site	\$126,019.52	\$0.00	0%
17	B	Completion of the works for each site in "Schedule B - Hardware" items 19 &	25% for items 19 & 20 in Schedule B - Hardware upon completion of the installation works on site (ready for	\$98,452.75	\$0.00	0%
18	C	FAT for each system in "Schedule C - Software" items 1 & 7	10% for items 1 through 7 in Schedule C - Software upon Commencement of PHS FAT	\$72,653.60	\$0.00	0%
19	C	FAT for each system in "Schedule C - Software" items 1 & 7	10% for items 1 through 7 in Schedule C - Software upon approval of PHS FAT	\$72,653.60	\$0.00	0%
20	C	SIT for each system in "Schedule C - Software" items 1 & 7	10% for items 1 through 7 in Schedule C - Software upon Commencement of PHS-RSE integration Test	\$72,653.60	\$0.00	0%
21	C	SIT for each system in "Schedule C - Software" items 1 & 7	10% for items 1 through 7 in Schedule C - Software upon approval of PHS-RSE integration Test	\$72,653.60	\$0.00	0%
22	C	SAT for each system in "Schedule C - Software" items 1 & 7	25% for items 1 through 7 in Schedule C - Software upon Commencement of PHS SAT	\$181,634.00	\$0.00	0%
23	C	Final Acceptance for each system in "Schedule C - Software" items 1 & 7	27% for items 1 through 7 in Schedule C - Software upon approval of PHS SAT	\$196,164.72	\$0.00	0%
24	D	One monthly instalment every month from go-live	100% of the monthly fee of the applicable year	\$5,751,746.00	\$0.00	0%
25	E	Delivery of the Payment and Performance bond	100% of the items 1 & 2 in the Schedule E - Bonds upon hand over of the Bonds	\$142,000.00	\$142,000.00	100%
26	N/A	Material on hand	Material on Hand (MOH): HCRMA will pay to SICE the actual cost of all material procured for the Project, which have been marked for the Project and stored in a secured location. MOH will be handled following the TxDOT specs item 9.6.	N/A		
				\$13,980,669.00	\$2,015,094.94	14%

EXECUTIVE SUMMARY

- ❑ The Notice to Proceed (NTP) was issued to Pulice Construction Inc. (PCI) on February 15, 2022, with time charges commencing on March 17, 2022.
- ❑ The work under this contract shall be substantially completed within **1,264 CALENDAR** days [September 22, 2025] After Substantial Completion, Pulice will be allowed up to an additional 60 calendar days for Final Acceptance. Therefore, all improvements must be final accepted by [November 21, 2025].
- ❑ Working days will be charged Sunday through Saturday, including all holidays [with exception of:

New Year's Day (January 1st)

Independence Day (July 4th)

Labor Day (1st Monday in the month of September)

Thanksgiving Day and day after (4th Thursday and Friday in the month of November);

Christmas Eve and Day (December 24th and 25th)

Regardless of weather conditions, material availability, or other conditions not under the control of the Contractor, except as expressly provided for in the Contract. If Contractor fails to complete the work on or before the contract time, Pulice Construction Inc. agrees to pay the Authority \$16,500 per day as liquidated damages to cover losses, expenses and damages of the Authority for every calendar day which the Contractor fails to achieve substantial completion of the project.

- ❑ The total construction cost submitted \$295,932,420.25.

HCRMA 365 TOLL PROJECT CSJ#0921-02-368: CHANGE ORDER SUMMARY

HCRMA 365 TOLL PROJECT CSJ#0921-02-368: CHANGE ORDER SUMMARY

Fourteen (14) approved Changes Order(s): [\$8,639,698.80] +0 days

CO#1	11/11/2021	entering VECP process	+000 days	\$000,000,000.00	.0%
CO#2	12/21/2021	VECP Plan Revisions	+000 days	\$(14,208,622.30)	(4.80%)
CO#3	04/26/2022	VECP Contractor Risk	+000 days	\$000,000,000.00	(0%)
CO#4	01/24/2023	Drill Shafts	+000 days	\$171,516.59	0.06%
CO#5	06/24/2023	VECP True Realized Savings	+000 days	\$4,325,130.78	1.44%
CO#6	07/09/2024	Depot Road remove cul-de-sac	+000 days	(-\$30,843.33)	(0.01%)
CO#7	07/09/2024	Mission waterline conflict	+000 days	\$13,075.83	0.004%
CO#8	07/09/2024	drill shaft casing conflict	+000 days	\$20,932.00	0.01%
CO#9	07/09/2024	irrigation PVC / LHPP	+000 days	(-\$1,782.00)	(0%)
CO#10	07/09/2024	TCP amendments	+000 days	\$249,919.32	0.08%
CO#11	07/09/2024	add McColl driveway	+000 days	\$23,450.97	0.008%
CO#12	07/09/2024	City of Pharr waterline	+000 days	\$135,487.78	0.005%
CO#13	07/09/2024	Traffic signal/cntrl cabinets	+000 days	\$212,599.20	0.717%
CO#14	12/17/2024	Replace pore-cast manholes	+000 days	\$492,363.86	
CO#14R	01/24/2024	Replace pore-cast manholes	+000 day	(-42,927.50)	

Change Order No.1 Summary: November 10, 2021, Resolution 2021-54

- The Primary purpose of Change Order No. 1 is for the HCRMA and contractor to enter a defined VECP proves to reduce the overall cost of the project based on a 30% design furnished by the contractor.
- Cost to the Project include: 30% of 5% of the project savings to the project or direct costs to the contractor, whichever is less. These costs are intended to pay the contractor for design work achieve a 30% design.
- The HCRMA assumes ownership of all design work developed by the contractor, and cost savings are shared by the HCRMA and contractor by 40% and 60% respectively.

Change Order No. 2 Summary: December 20, 2021, Resolution 2021-78

- Change order No. 2 amended the contract price from \$295,932,420.25 to \$281,723,797.95.
- By execution of Change Order No. 1, the contractor completed a 30% design to an effort to estimate cost savings for the project. Payment for the contractor’s initial design work is \$613,285.06 in accordance with calculations presented in Change Order No. 1. This is the only cost due to the contractor based on the execution of Change Order No. 2 and is non-participating.
- Notice to proceed was issued 2/15/2022, the HCRMA reimburse the contractor for the remaining design costs to not exceed 5% of the total cost savings. Payments made will be based upon design milestones at 60%, 90% and 100% completion and acceptance.



VECP calculations for Contract Price of	\$281,723,797.95	
VECP Gross Savings	\$38,010,382.63	
Less est. Total Design Cost	\$1,943,648.45	(Schematics + Final Design)
Less Est. Owner's Fees	\$545,178.43	(GEC, Environmental, T&R Costs)
VECP Net Savings	\$35,521,555.75	
60% Contractor Saving:	\$21,312,933.45	Paid as Progress Payments
40% Contractor Saving:	\$14,208,622.30	Reduced from original Project

Change Order No. 3 Summary: April 26, 2022, Resolution 2022-36

- As provided for Contract Amendment #1 and Change Order No. 2, the Contractor's share of the net savings includes the "Contractor Risk" that the actual costs of implementing the approved VECP concepts in Change Order No. 2 may not result in the saving approved by the parties. To the extent total actual costs exceed the total amount approved, all overages due to errors, oversights, omissions, additions, or corrections to final units, final quantities, or final unit prices or costs increases shall be deducted from Contractor 60% portion of the net savings.
- To the extent actual costs exceed the amounts presented in Exhibit A, Contractor agrees that such overages due to errors, oversight, omission additions, or corrections to final units, quantities or unit pricing shall be deducted from contractor's 60% portion of the net savings (the "Contractor Risk").
- Contractor VECP Savings Payments.

Contractor's share of the savings shall be calculated and paid out as progress payments under the terms of the contract, as follows:

Construction Progress	Proposed Savings Payment
20% Completion	\$4,262,586.69
40% Completion	\$4,262,586.69
60% Completion	\$4,262,586.69
80% Completion	\$4,262,586.69
Final Acceptance	<u>\$4,262,586.69</u>
	\$21,312,933.45

The parties agrees that if the savings are not apparent or justified during a designated progress period, all, or part of any such Savings Payment, on the recommendation of the General Engineering Consultant, may be (i) deferred to the next progress period or (iii) reduced to reflect the Contractor's Risk for unrealized savings/overages.

Change Order No. 4 Summary: January 24, 2023, Resolution 2023-05

Change Order No. 4 removes 1,524LF of Item 416-6005 Drill Shaft (42") introduces 48" drill shafts to incorporate detailed, finalized quantities and unit costs, and establishes State/Federal participation on modified unit costs, assuring compliance with the standard specifications included within the contract.

Change Order No. 4 introducing 1,585LF of Item 416-6006 Drill Shaft (48 IN) at a unit cost of \$308.39/LF for a net cost of \$171,516.59 to be fully paid by HCRMA [Owner].

Change Order No. 5 Summary: July 24, 2023, Resolution 2023-30

In lieu of \$38,010,382.63 savings, Contractor only can truly account for \$30,565,888. Contractor is claiming that of the \$7,444,494.63 shortfall, only \$3,186,525.45 is from Contractor's 60% at risk pool; additional \$4,257,969.18 are contributable to busts in original plans, design errors, and quantity mistakes and are to be attributed to HCRMA contingency [\$ 5,000,000.00 >>\$570,514.23].

- As provided for Contract Amendment #1 and Change Order No. 2, the Contractor's share of the net savings includes the "Contractor Risk" that the actual cost of implementing the approved VECP concepts in Change Order No. 2 may not result in the saving approved by the parties. To the extent, total actual costs exceed total amount approved, all overage due to errors, oversights, omissions, additions, or corrections to final units, final quantities, or final unit prices or costs increases, shall be deducted from Contractor 60% portion of the net savings. **The unrealized savings presented are \$3,186,525.45.**
 - To the extent actual costs exceed the amounts presented in Exhibit A, contractor agrees that such overages due to errors, oversight, omission additions, or corrections to the final units, quantities or unit pricing shall be deducted from contractor's 60% portion of the net savings (the "Contractor Risk"),
 - Contractor VECP Savings Payments **are amended, as such:**

Contractor's share of the saving shall be calculated and paid out as progress payments under the terms of the contract, as follows:

Construction Progress	Proposed Savings Payment	Paid Date
**20% Completion	\$4,262,586.69	12/22/22
40% Completion	\$4,262,586.69 \$3,728,764.51	01/17/24
60% Completion	\$4,262,586.69 \$3,728,764.51	12/26/24
80% Completion	\$4,262,586.69 \$3,728,764.51	Not Paid
Final Acceptance	\$4,262,586.69 \$3,728,764.52	Not Paid
	\$21,312,933.45 \$19,177,644.74	

**[\$19,177,644.74 - \$11,720,115.71 = \$7,457,529.02] Remaining Balance

Change Order No. 6 - 13 Summary: July 9, 2024, Resolution 2024-27

The sum of change orders proves a net cost increase of \$ 622,839.77 to be fully paid by the HCRMA [Owner]. Establishing a new revised contract price of \$286,843,285.09 with no additional time; and incorporates detailed, finalized quantities and unit costs; and establishes State/Federal participation on modified unit costs, assuring compliance with the standard specifications included within the contract. These are compilations of various Field Changes:

Change Order No. 6 Summary: (-\$30,843.33)

The scope of this change is to compensate for the changes related to Depot Road (southbound frontage road for SP115) which will remain in place at the directive of TxDOT. The existing SB frontage road (Depot) will be left in place in lieu of obliteration and cul-de-sac. As a result, the proposed levee will be reduced, guard rail and rail Ty T80PP will be added to protect columns. In addition, the TCP is revised to allow for the phased additional work.

Change Order No. 7 Summary: \$13,075.83

This change resolves an unanticipated utility conflict between the city of Mission 16" waterline casing and proposed drainage line at station 649+00. In lieu of the proposed 5' x 5', an 8'x8' Conflict Manhole must be installed to accommodate construction.

Change Order No. 8 Summary: \$20,932.00

The 60" drill shafts from FM 494 Bent 2 conflict with placed 24" water line casing. The existing 24" RCP CL V water line casing would need to be removed and relayed using the same pipe. Estimated damaged pipe would need to be new RCP.

Change Order No. 9 Summary: (-\$1,782.00)

Due to existing field conditions, the irrigation line from station 752+36.15 to 760+66.11 increased from 18" Pressure Irrigation PVC pipe to 36" LHPP. CO#5 instrumented replacement to 36" LHPP. However, due to immediate material need and unavailability, a 30" LHPP was placed in lieu of 36".

Change Order No. 10 Summary: \$249,919.32

Pertinent plan sheets depicted traffic control plan implementing portable concrete traffic barriers and crash cushion appurtenances for safety of traveling public; however, items were not included in estimate.

Change Order No. 11 Summary: \$23, 450.97

This change adjusts items per driveway revisions on McColl Rd. The proposed NW driveways were revised to provide better access for the local businesses and to add end treatment components for safety purposes at driveway intersections.

Change Order No. 12 Summary: \$135,487.78

The scope of this change is to add and adjust items related to the 18" waterline relocation. Items were accounted in plans but not placed on estimate.

Change Order No. 13 Summary: \$212,599.20

TS pole mounted cabinets (TY 2 CONF 2) to be installed, attached to the vertical mast of existing and proposed traffic signal poles. Installing ITS cabinets on traffic signal poles is not per TxDOT standard. Cabinets are to be installed as ground mounted to specifications.

Change Order No. 14 Summary: January 24, 2025: Resolution 2025-07 \$449,436.36

PCI was directed to replace pore-cast manholes originally bin in contract to meet third party governmental agency demand for cast-in-place manholes within jurisdictional boundaries.

***Change Order No. 15 Summary: January 24, 2025: Resolution 2025-08 \$150,00.00**

Due to ongoing requests from third party governmental agency, unanticipated parameters and numerous conditional changes in requirements, untimely review of requested changes, and unavailability of service lines various subcontractors of Pulice Construction Inc. have encountered scheduling delays. These delays incur expenses in scheduling crews and mobilizing specialized equipment. The presented conditions are beyond their control.

The sum of Change Orders proves a net cost increase \$622,839.77 to be fully paid by HCRMA [Owner]. Establishing a new revised contract price of \$287,442,721.45 with no additional time; and incorporates detailed finalized quantities and unit costs; and establishes State/Federal participation on modified unit costs, assuring compliance with the standard specifications included within the contract.

PROJECT PRODUCTION

❑ CAPTURING VECP PACKETS

02/08/23 VECP Team met, exchanged concepts, formats
03/08/23 VECP meeting formal report submitted
04/20/23 VECP concepts completed and negotiations underway
07/07/23 New revised baseline schedule
07/10/23 CO#5 terms and conditions
02/23/24 CO#6 conditions and negotiations
07/09/24 CO#6 - 13 various
01/24/25 CO#14 rev CIP manholes
CO#15 site specific remobilization fees

❑ FORMAL SUBMITTALS, REVIEW OF DOCUMENTS

- RFIs 221
- SUBMITTALS 214

❑ TESTING [Soils/Concrete]

- Levees / embankment / select fill
- Drill shafts / bents / slab
- Roadway: limed subgrade / cement treated base / CRCP
- MSE Backfill
- Irrigation Structures

❑ ENVIRONMENTAL JUSTICES [SW3Ps] Archeological Sites

❑ EMBANKMENT: Shary / SH336 / SP115 / Highline / McColl / Anaya / Cage

❑ UNDERGROUND WORK: Storm Sewer / Irrigation structures / Tolling Conduit

❑ LEVEE Work: Ware / Jackson / US281

❑ Bridge Substructure FM494 / Floodway / SP115 / SH336/ McColl / Ditch Bridge / Highline

- BEAMS SET: McColl / Canal Bridge / Floodway- SP115 / FM494/ SH336/Anaya

❑ RETAINING WALLS Highline / Anaya / SP115 / SH336 / Jackson





















Business: HCRMA
 Project Name: 365 TOLL PROJECT CSJ:0921-02-368 ALN#20.205
 Project Description: GREENFIELD PROJECT, PRINCIPAL ARTERIAL, CONTROLLED ACCESS HIGHWAY, TOLL IMPROVEMENT, CSJ: 0921-02-368 ALN#:20.205
 Prime Contractor: PULICE CONSTRUCTION, INC.
 Notice to Proceed Date: 2/15/2022
 Construction Start Date: 3/17/2022
 Awarded Project Amount: \$ 295,932,420.25
 Net Change by Change Orders: \$ (30,174,437.02)
 Authorized Project Amount: \$ 265,757,983.23
 % Complete Paid Awarded Amount: 52.504
 % Complete Paid Authorized Amount: 58.466

Payment History:

Payment Number	Pay Period Start	Pay Period End	Payment Amount	Payment To Date	Payment Status	Monthly Production %	Cummulative%
33	12/1/2024	12/28/2024	\$ 5,656,543.46	\$ 155,376,811.85	Paid	2.128	58.466
32	10/16/2024	11/30/2024	\$ 8,822,222.41	\$ 149,720,268.39	Paid	3.320	56.337
31	9/16/2024	10/15/2024	\$ 3,169,850.18	\$ 140,898,045.98	Paid	1.193	53.017
30	8/16/2024	9/15/2024	\$ 3,999,289.82	\$ 137,728,195.80	Paid	1.505	51.825
29	7/16/2024	8/15/2024	\$ 5,786,638.29	\$ 133,728,905.98	Paid	2.177	50.320
28	6/16/2024	7/15/2024	\$ 2,006,402.82	\$ 127,942,267.69	Paid	0.755	48.142
27	5/16/2024	6/15/2024	\$ 3,637,006.93	\$ 125,935,864.87	Paid	1.369	47.387
26	4/16/2024	5/15/2024	\$ 2,271,351.76	\$ 122,298,857.94	Paid	0.855	46.019
25	3/16/2024	4/15/2024	\$ 5,798,909.13	\$ 120,027,506.18	Paid	2.182	45.164
24	2/16/2024	3/15/2024	\$ 2,969,884.58	\$ 114,228,597.05	Paid	1.118	42.982
23	1/16/2024	2/15/2024	\$ 4,352,674.67	\$ 111,258,712.47	Paid	1.638	41.865
22	12/16/2023	1/15/2024	\$ 3,798,704.58	\$ 106,906,037.80	Paid	1.429	40.227
21	11/16/2023	12/15/2023	\$ 7,678,808.97	\$ 103,107,333.22	Paid	2.889	38.797
20	10/16/2023	11/15/2023	\$ 6,172,155.46	\$ 95,428,524.25	Paid	2.322	35.908
19	9/16/2023	10/15/2023	\$ 5,115,697.33	\$ 89,256,368.79	Paid	1.925	33.586
18	8/16/2023	9/15/2023	\$ 7,157,089.08	\$ 84,140,671.46	Paid	2.693	31.661
17	7/16/2023	8/15/2023	\$ 5,532,158.94	\$ 76,983,582.38	Paid	2.082	28.968
16	6/16/2023	7/15/2023	\$ 2,803,225.26	\$ 71,451,423.44	Paid	1.055	26.886
15	5/16/2023	6/15/2023	\$ 2,402,150.75	\$ 68,648,198.18	Paid	0.904	25.831
14	4/16/2023	5/15/2023	\$ 1,672,812.23	\$ 66,246,047.43	Paid	0.629	24.927
13	3/16/2023	4/15/2023	\$ 2,302,505.87	\$ 64,573,235.20	Paid	0.866	24.298
12	2/16/2023	3/15/2023	\$ 1,571,621.63	\$ 62,270,729.33	Paid	0.591	23.431
11	1/16/2023	2/15/2023	\$ 1,519,297.77	\$ 60,699,107.70	Paid	0.572	22.840
10	12/16/2022	1/15/2023	\$ 943,705.68	\$ 59,179,809.93	Paid	0.355	22.268
9	11/15/2022	12/15/2022	\$ 8,892,613.75	\$ 58,236,104.25	Paid	3.346	21.913
8	10/15/2022	11/14/2022	\$ 4,085,602.35	\$ 49,343,490.50	Paid	1.537	18.567
7	9/16/2022	10/14/2022	\$ 1,427,873.36	\$ 45,257,888.15	Paid	0.537	17.030
6	8/19/2022	9/15/2022	\$ 657,136.92	\$ 43,830,014.79	Paid	0.247	16.492
5	7/20/2022	8/18/2022	\$ 378,458.17	\$ 43,172,877.87	Paid	0.142	16.245
4	6/21/2022	7/19/2022	\$ 2,793,575.17	\$ 42,794,419.70	Paid	1.051	16.103
3	6/1/2022	6/20/2022	\$ 2,336,832.39	\$ 40,000,844.53	Paid	0.879	15.052
2	5/1/2022	5/31/2022	\$ 14,029,200.82	\$ 37,664,012.14	Paid	5.279	14.172
1	2/15/2022	4/30/2022	\$ 23,634,811.32	\$ 23,634,811.32	Paid	8.893	8.893
Total:			\$ 155,376,811.85				

	PAID	RECOVERED	REMAINING
MOH	\$41,838,064.95	\$20,684,284.74	\$21,153,780.21



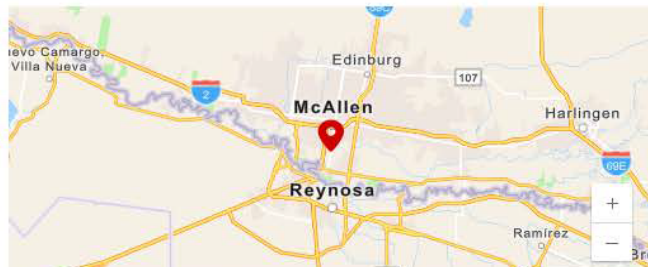
HCRMA
 HIDALGO COUNTY REGIONAL MOBILITY AUTHORITY

General Information

Project

Work Type
Heavy Highway

Location



Texas Parks & Wildlife, CONANP, Esri, TomTom, Gar... Powered by Esri

Coordinates
26.14052384945899, -98.24062242016183

Location
FM-396 (ANZALDUAS HIGHWAY) TO US-281 MILITARY HIGHWAY

Management

Prime Contractor
PULICE CONSTRUCTION, INC.

Project Manager
Ramon Navarro, IV., P.E.

Managing Office
HCRMA Construction Department

Created By
Sergio Mandujano

Awarded Amount
\$295,932,420.25

Authorized Amount
\$265,757,983.23

Approved Changes
-\$30,174,437.02

Description

GREENFIELD PROJECT, PRINCIPAL ARTERIAL, CONTROLLED ACCESS HIGHWAY, TOLL IMPROVEMENT, CSJ: 0921-02-368

Amount Paid

Amount paid so far
\$140,898,045.98

48% of your
Awarded
\$295,932,420.25

53% of your
Authorized
\$265,757,983.23

100% of your
Approved
Payments
\$140,898,045.98

Important Dates

Date Created
Apr 22, 2022

Notice to Proceed
Feb 15, 2022

Construction Start
Mar 17, 2022

Work Completion
Sep 22, 2025

Progress

Time Complete: 1001 Days

Time Remaining: 263 Days

Amount Posted: \$128,704,107.90

Awarded Amount: \$295,932,420.25

Amount Posted: \$128,704,107.90

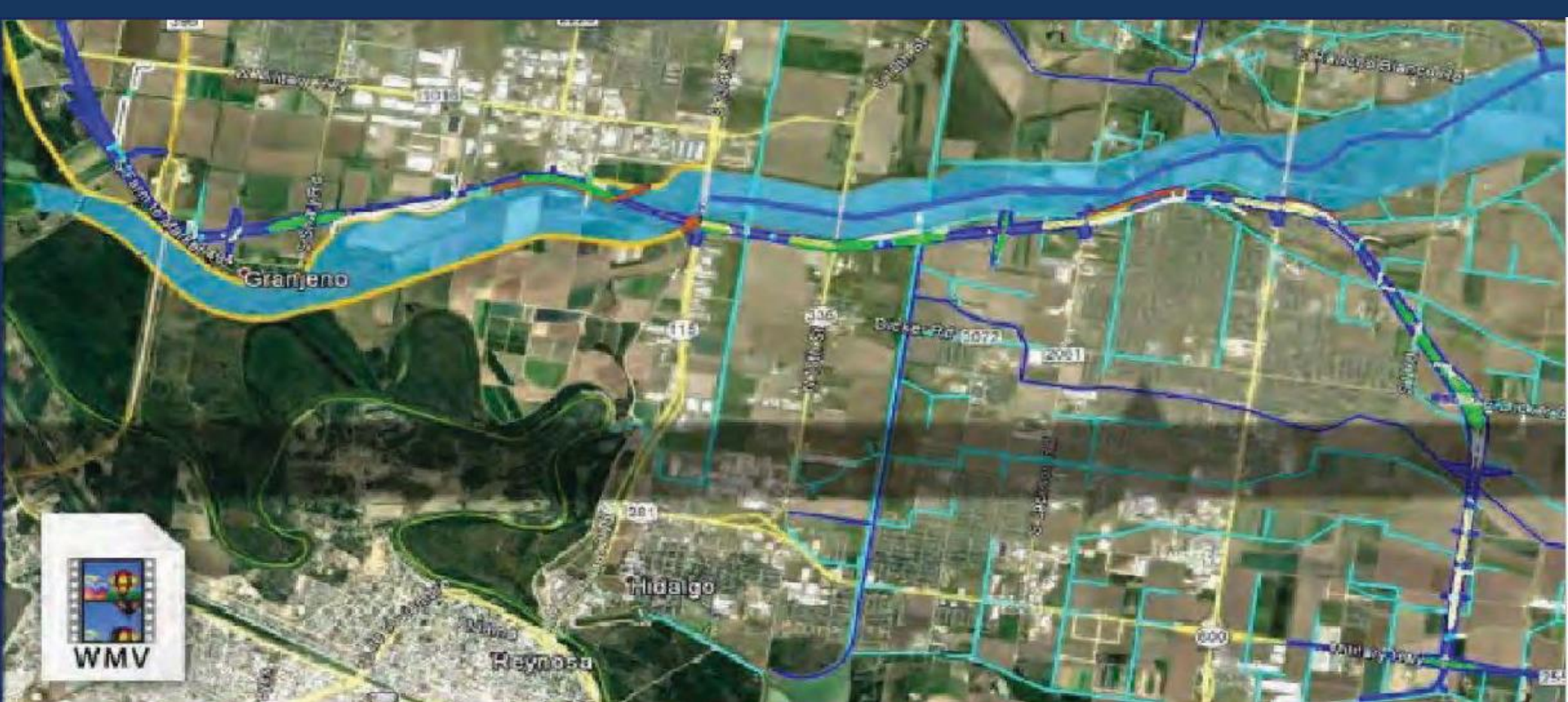
Authorized Amount: \$265,757,983.23

Total Retainage
\$0.00

Retainage Released
\$0.00

Liquidated Damages
\$0.00





THIS ITEM WILL BE
SENT UNDER
SEPERATE COVER

This Page
Intentionally
Left Blank

Item 3A

HIDALGO COUNTY REGIONAL MOBILITY AUTHORITY

AGENDA RECOMMENDATION FORM

BOARD OF DIRECTORS	<u> X </u>	AGENDA ITEM	<u> 3A </u>
PLANNING COMMITTEE	<u> </u>	DATE SUBMITTED	<u> 1/17/2025 </u>
FINANCE COMMITTEE	<u> </u>	MEETING DATE	<u> 1/24/2025 </u>
TECHNICAL COMMITTEE	<u> </u>		

1. Agenda Item: **APPROVAL OF MINUTES FOR THE BOARD OF DIRECTOR'S REGULAR MEETING HELD DECEMBER 17, 2024.**
2. Nature of Request: (Brief Overview) Attachments: X Yes No
Approval of Minutes for the Hidalgo County Regional Mobility Authority Board of Directors
Regular Meeting held December 17, 2024.
3. Policy Implication: Board Policy, Local Government Code, Texas Government Code, Texas
Transportation Code, TxDOT Policy
4. Budgeted: Yes No X N/A
5. Staff Recommendation: **Motion to approve the minutes for the Board of Director's Regular Meeting held on December 17, 2024.**
6. Program Manager's Recommendation: Approved Disapproved X None
7. Planning Committee's Recommendation: Approved Disapproved X None
8. Board Attorney's Recommendation: Approved Disapproved X None
9. Chief Auditor's Recommendation: Approved Disapproved X None
10. Chief Financial Officer's Recommendation: Approved Disapproved X None
10. Chief Development Engineer's Recommendation: Approved Disapproved X None
11. Chief Construction Engineer's Recommendation: Approved Disapproved X None
12. Executive Director's Recommendation: X Approved Disapproved None

STATE OF TEXAS
COUNTY OF HIDALGO
HIDALGO COUNTY REGIONAL MOBILITY AUTHORITY

The Hidalgo County Regional Mobility Authority Board of Directors convened for a Regular Board Meeting on Tuesday, December 17, 2024, at 5:30 pm at the Hidalgo County Regional Mobility Authority, Large Conference Room, 203 W. Newcombe Ave., Pharr, Texas 78577, with the following participating:

Board Members:	Robert L. Lozano, Chairman Juan Carlos Del Ángel, Secretary/Treasurer Frank Pardo, Director Sergio Saenz, Director Michael Williamson, Director
Absent:	Ezequiel Reyna, Vice-Chairman
Staff:	Pilar Rodriguez, Executive Director Ramon Navarro, Chief Construction Engineer Ruben Alfaro, Development Engineer Celia Gaona, Chief Auditor/Compliance Officer Jose Castillo, Chief Financial Officer Maria Alaniz, Program Coordinator Richard Cantu, Law Office of Richard Cantu, Legal Counsel Richard Ramirez, Hilltop Securities, Financial Advisor

PLEDGE OF ALLEGIANCE

Chairman Lozano led the Pledge of Allegiance.

INVOCATION

Mrs. Maria Alaniz led the invocation.

CALL TO ORDER OF A WORKSHOP AT 5:40 P.M.

1. Review of the 2025 Strategic Plan Update for the Hidalgo County Regional Mobility Authority.
Mr. Ruben Alfaro reviewed the 2025 Strategic Plan Update for the Hidalgo County Regional Mobility Authority.

ADJOURNMENT OF WORKSHOP

CALL TO ORDER AND ESTABLISHMENT OF A QUORUM FOR A REGULAR MEETING

Chairman Lozano called the Regular Meeting to order at 5:51 p.m.

PUBLIC COMMENT

No Comments

CHAIRMAN ROBERT LOZANO GAVE HIS REPORT AS NOTED UNDER ITEM 4. A.

1. REPORTS

- A. Report on Program Management Activity for 365 Tollway Project – HCRMA Staff
Mr. Ruben Alfaro reported on Program Manager Activity for 365 Tollway Project. No action taken.
- B. Report on Construction Activity for 365 Tollway Project – Ramon Navarro IV, HCRMA.
Mr. Ramon Navarro reported on the construction activity for 365 Tollway Project. No action taken.

2. CONSENT AGENDA

Motion by Michael Williamson, with a second by Sergio Saenz, to approve the Consent Agenda. Motion carried unanimously.

- A. Approval of Minutes for the Regular Board Meeting held November 19, 2024.
Approved the Minutes for the Regular Board Meeting held November 19, 2024.
- B. Approval of Project & General Expense Report for the period from November 7, 2024, to December 4, 2024.
Approved the Project & General Expense Report for the period from November 7, 2024, to December 4, 2024.
- C. Approval of Financial Reports for October 2024.
Approved the Financial Reports for October 2024.
- D. Resolution 2024-50 – Consideration and Approval of Work Authorization Number 6 *with Quintanilla, Headly, & Associates* to provide surveying services to amend parcels for the Enbridge/Texas Eastern Pipeline agreement.
Approval of Resolution 2024-50 – Consideration and Approval of Work Authorization Number 6 to the agreement with Quintanilla, Headly, & Associates with to provide surveying services to amend parcels for the Enbridge/Texas Eastern Pipeline agreement in the amount of \$1,760.00.
- E. Resolution 2024-51- Consideration and approval of Contract Amendment No. 10 with Quintanilla, Headly, & Associates to increase maximum payable amount for Work Authorization Number 6.
Approval of Resolution 2024-51- Consideration and approval of Contract Amendment No. 10 with Quintanilla, Headly, & Associates to increase maximum payable amount for Work Authorization Number 6 for a revised maximum payable amount of \$1,760.00.

3. REGULAR AGENDA

- A. Resolution 2024-45 – Resolution Supporting State Highway 68 Design Modification Route Number 7.
No Action.
- B. Resolution 2024-48 – Adoption of the Fiscal Year 2025 Operating and Capital Budget for the Hidalgo County Regional Mobility Authority.
Motion by Frank Pardo, with a second by Carlos Del Angel to approve Resolution 2024-48 – Adoption of the Fiscal Year 2025 Operating and Capital Budget for the Hidalgo County Regional Mobility Authority. Motion carried unanimously.
- C. Resolution 2024-49 – Adoption of 2025-2029 Strategic Plan Update for the Hidalgo County Regional Mobility Authority Loop System.
Motion by Carlos Del Angel, with a second by Michael Williamson to approve Resolution 2024-49 – Adoption of 2025-2029 Strategic Plan Update for the Hidalgo County Regional Mobility Authority Loop System. Motion carried unanimously.
- D. Resolution 2024-52 – Consideration and Approval of Change Order Number 14 to that Certain Contract with Pulice Construction, Inc. for the 365 Tollway.
Motion by Carlos Del Angel, with a second by Sergio Saenz to approve Resolution 2024-52 – Consideration and Approval of Change Order Number 14 for a net cost increase of \$492,363.86 and an overall contract amount of \$287,335,648.95 to that Certain Contract with Pulice Construction, Inc. for the 365 Tollway. Motion carried unanimously.

4. CHAIRMAN'S REPORT

- A. Chairman reported on recent 365 Tollway Construction project tour, the finalized 2025 Strategic Plan Update, Community/Stake holder outreach, Planning and Environmental Linkage Program/FHWA, and discussed plans for a retreat/workshop.

5. TABLED ITEMS

- A. None.

6. EXECUTIVE SESSION, CHAPTER 551, TEXAS GOVERNMENT CODE, SECTION 551.071 (CONSULTATION WITH ATTORNEY), SECTION 551.072 (DELIBERATION OF REAL PROPERTY), AND SECTION 551.074 (PERSONNEL MATTERS)

Motion by Michael Williamson, with a second by Carlos Del Angel, to enter into Executive Session to consult with board Attorney on legal issues pertaining to Item 6A under section 551.071 of the Texas Government Code at 6:36 p.m. Motion carried unanimously.

- A. Consultation with Attorney on legal issues pertaining to the advance project development of the 365 Tollway Segment 4, Section "A" West and Section "C" of the Hidalgo County Loop System (Section 551.071 T.G.C.).
No Action taken.
- B. Consultation with Attorney on legal issues pertaining to the Joint Use Agreement between Hidalgo County Irrigation District Number 2 and the Hidalgo County Regional Mobility Authority for the 365 Tollway Project (551.071 T.G.C.).
No Action taken.

- C. Consultation with Attorney on legal issues pertaining to Change Order Number 1-13 to that certain contract with Pulice Construction Inc. for the 365 Tollway Project (551.071 T.G.C.).
No Action taken.
- D. Consultation with Attorney on legal issues pertaining to the Financial Assistance Agreement with the Texas Department of Transportation for the 365 Tollway Project (551.071 T.G.C.).
No Action taken.
- E. Consultation with Attorney on legal issues pertaining to Professional Service Agreements for Inspection, Engineering, Surveying and Environmental Services to include construction material testing (Section 551.071 T.G.C.).
No Action Taken.
- F. Consultation with Attorney on legal issues pertaining to the voluntary acquisition of real property for various parcels for the 365 Tollway Project and International Bridge Trade Corridor Project (Sections 551.071 and 551.072 T.G.C.).
No Action Taken.
- G. Consultation with Attorney on legal issues pertaining to the acquisition, including the use of Eminent Domain, for property required to complete the project alignments of the 365 Tollway Project (Sections 551.071 and 551.072 T.G.C.).
No Action Taken.
- H. Consultation with Attorney on legal issues pertaining to the Environmental Clearance Document for the International Bridge Trade Corridor Project (Section 551.071 T.G.C.).
No Action taken.
- I. Consultation with Attorney on legal issues pertaining to Professional Services Agreements (Section 551.071 T.G.C.).
No Action taken.

Motion by Carlos Del Angel, with a second by Michael Williamson, to reconvene the regular board meeting at 7:00 p.m. Motion carried unanimously.

ADJOURNMENT

There being no other business to come before the Board of Directors, motion by Ezequiel Reyna, with a second by Michael Williamson, to adjourn the meeting at 7:02 p.m.

Robert L. Lozano, Chairman

Attest:

Juan Carlos Del Ángel, Secretary/Treasurer

This Page
Intentionally
Left Blank

Item 3B

HIDALGO COUNTY REGIONAL MOBILITY AUTHORITY

AGENDA RECOMMENDATION FORM

BOARD OF DIRECTORS	<u> X </u>	AGENDA ITEM	<u> 3B </u>
PLANNING COMMITTEE	<u> </u>	DATE SUBMITTED	<u> 01/17/25 </u>
FINANCE COMMITTEE	<u> </u>	MEETING DATE	<u> 01/24/25 </u>
TECHNICAL COMMITTEE	<u> </u>		

1. Agenda Item: APPROVAL OF PROJECT AND GENERAL EXPENSE REPORT FROM DECEMBER 5, 2024 TO JANUARY 10, 2025

2. Nature of Request: (Brief Overview) Attachments: X Yes No

Consideration and approval of project and general expense report for the period from December 5, 2024, to January 10, 2025

3. Policy Implication: Board Policy, Local Government Code, Texas Government Code, Texas Transportation Code, TxDOT Policy

4. Budgeted: X Yes No N/A Funding Source: VRF Bond

Operating Account	\$ 233,639.04
Toll Revenue Series 2022A&B	\$ 12,008,887.57
Disbursement Account	\$ 1,450.00
VRF Series 2020A	\$ 0.00
Total Project Expenses for Reporting Period	\$ 12,243,976.61

Fund Balance after Expenses \$ 123,509,326

5. Staff Recommendation: Motion to approve the project and general expense report for the December 5, 2024, to January 10, 2025, as presented.

6. Planning Committee's Recommendation: Approved Disapproved X None

7. Finance Committee's Recommendation: Approved Disapproved X None

8. Board Attorney's Recommendation: Approved Disapproved X None

9. Chief Auditor's Recommendation: Approved Disapproved X None

10. Chief Financial Officer's Recommendation: X Approved Disapproved None

11. Chief Development Engineer's Recommendation: X Approved Disapproved None

12. Chief Construction Engineer's Recommendation: X Approved Disapproved None

13. Executive Director's Recommendation: X Approved Disapproved None



Memorandum

To: Robert L. Lozano, Chairman
From: Pilar Rodriguez, PE, Executive Director
Date: January 17, 2025
Re: **Expense Report for the Period from December 5, 2024, to January 10, 2025**

Attached is the expense report for the period commencing on December 5, 2024, to January 10, 2025.

Expenses for the General Account total \$233,639.04, Toll Revenue Series 2022A&B total is \$12,008,887.57, Disbursement Account total \$1,450.00, and the VRF Series 2020A Account is \$0. The aggregate expense for the reporting period is \$12,243,976.61.

Based on review by this office, **approval of expenses for the reporting period is recommended in the aggregate amount of \$ 12,243,976.61.**

This leaves a fund balance (all funds) after expenses of \$123,509,326.

If you should have any questions or require additional information, please advise.

Plains Capital 41

Make Check Payable to	Inv Date	Amount	
City of Pharr	1/6/2025	\$	1,078.95
City of Pharr	1/13/2024	\$	3,608.76
City of Pharr	1/9/2025	\$	152,516.08
City of Pharr	1/9/2025	\$	205.00
City of Pharr	1/9/2025	\$	6,765.00
Pharr Economic Development Corporation	1/4/2025	\$	4,480.00
Pharr Economic Development Corporation	1/1/2025	\$	2,500.00
San Miguel Lawn Services	1/7/2025	\$	465.00
Bracewell, LLP	12/5/2024	\$	6,493.92
Pathfinder Public Affairs	12/31/2024	\$	10,000.00
Pena Designs	1/1/2025	\$	200.00
Law Office of Richard A. Cantu, P.C.	1/10/2025	\$	300.00
Valero Fleet	12/15/2024	\$	880.76
Daney Rodriguez	12/16/2024	\$	2,016.00
Plains Capital Bank	12/17/2024	\$	500.00
City of McAllen	12/30/2025	\$	2,000.00
IBTTA	9/19/2024	\$	2,500.00
Info Tech	1/7/2025	\$	15,750.00
Allterra	1/1/2025	\$	1,000.00
Ruben Alfaro	1/14/2025	\$	129.89
Aim Media Texas	12/31/2024	\$	904.00
Gateway Printing & Office Supply Inc.	12/11/2024	\$	92.32
Office Depot	12/13/2024	\$	518.03
A-Fast Delivery, LLC	12/18/2024	\$	141.00
Advance Publishing LLC	12/25/2024	\$	220.50
Wilmington Trust	1/15/2025	\$	2,000.00
Xerox Financial Services	12/12/2024	\$	1,196.00
Xerox Financial Services	12/12/2024	\$	438.92
TML Intergovernmental Risk Pool	12/13/2024	\$	6,343.75
Credit Card Services	1/1/2025	\$	455.00
Credit Card Services	1/1/2025	\$	6,527.66
Credit Card Services	1/1/2025	\$	1,104.37
Credit Card Services	1/1/2025	\$	308.13
		\$	233,639.04

Wilmington Trust 44/365 Project Construction & Related Costs 2022 A

Pulice Construction, Inc.	12/30/2024	\$	5,656,543.46	Previously paid ACH
Pulice Construction, Inc.	12/26/2024	\$	3,728,764.51	
SICE Inc.	1/1/2025	\$	34,867.80	
C&M Associates, LLC	8/31/2024	\$	3,115.44	
CYTECH Heating & Cooling	12/9/2024	\$	5,362.00	Previously Paid ACH
HDR Engineering, Inc.	12/18/2024	\$	114,454.86	
HDR Engineering, Inc.	12/18/2024	\$	2,400.00	
HDR Engineering, Inc.	12/18/2024	\$	49,130.94	
HDR Engineering, Inc.	1/15/2025	\$	113,892.66	
HDR Engineering, Inc.	1/15/2025	\$	1,200.00	
HDR Engineering, Inc.	1/15/2025	\$	11,823.33	
Atlas Technical Consultants, LLC	1/10/2025	\$	18,475.29	
Bracewell, LLP	12/5/2024	\$	16,910.00	
Escobedo & Cardenas, LLP	1/10/2025	\$	3,538.00	
Law Office of Richard A. Cantu, P.C.	1/10/2025	\$	2,135.00	
Raba Kistner, Inc.	1/9/2025	\$	21,326.42	
Terracon Consultants, Inc.	12/30/2024	\$	146,486.79	
B2Z Engineering	1/10/2025	\$	81,301.58	
B2Z Engineering	1/10/2025	\$	4,229.34	
Blanton & Associates, Inc.	1/10/2025	\$	17,004.41	
Blanton & Associates, Inc.	1/8/2025	\$	1,059.81	
Zitro Electric	12/12/2024	\$	256.46	
Superior Alarms	1/1/2025	\$	540.00	
CDW Government	12/18/2024	\$	8,060.56	
MitRes Services	12/3/2024	\$	998,464.16	
MitRes Services	1/6/2025	\$	918,651.04	
American Electric Power	12/19/2024	\$	9,454.80	Previously Paid Check
Texas Department of Transportation	12/17/2024	\$	5,333.10	
Hidalgo County Irrigation District No. 2	12/26/2024	\$	7,207.06	
Hidalgo County Irrigation District No. 2	12/27/2024	\$	6,583.75	
SWG Engineering, LLC	10/31/2024	\$	12,745.00	
SWG Engineering, LLC	12/31/2024	\$	7,570.00	
		\$	12,008,887.57	

Make Check Payable to	Inv Date	Amount
Wilmington Trust 45/Capital Projects		
	CP	
San Miguel Lawn Services	1/9/2025	\$ 600.00
San Miguel Lawn Services	1/8/2025	\$ 850.00
		\$ 1,450.00
Sub Total - General -41 (Operating)	\$	233,639.04
Sub Total - Construction/Related Costs-44 (New Bonds A)	\$	12,008,887.57
Sub Total - Capital Projects-45 (Disbursement)	\$	1,450.00
Total	\$	12,243,976.61

Approved: _____
Robert L. Lozano, Chairman

Pilar Rodriguez, Executive Director

Approved: _____
Juan Carlos Del Ángel, Secretary/Treasurer

1/24/2025 _____

This Page
Intentionally
Left Blank

Item 3C

HIDALGO COUNTY REGIONAL MOBILITY AUTHORITY

AGENDA RECOMMENDATION FORM

BOARD OF DIRECTORS
PLANNING COMMITTEE
FINANCE COMMITTEE
TECHNICAL COMMITTEE

 X

AGENDA ITEM
DATE SUBMITTED
MEETING DATE

 3C
 01/15//25
 01/24/25

1. Agenda Item: **APPROVAL OF THE FINANCIAL REPORT FOR THE MONTH OF NOVEMBER 2024.**
2. Nature of Request: (Brief Overview) Attachments: X Yes No
Consideration and approval of financial report for the month of November 2024.
3. Policy Implication: Board Policy, Local Government Code, Texas Government Code, Texas Transportation Code, TxDOT Policy
4. Budgeted: Yes No X N/A
Funding Source:
5. Staff Recommendation: **Motion to approve the Financial Report for the months of November 2024, as presented.**
6. Planning Committee's Recommendation: Approved Disapproved X None
7. Finance Committee's Recommendation: Approved Disapproved X None
8. Board Attorney's Recommendation: Approved Disapproved X None
9. Chief Auditor's Recommendation: Approved Disapproved X None
10. Chief Financial Officer's Recommendation: X Approved Disapproved None
11. Chief Development Engineer's Recommendation: Approved Disapproved X None
12. Chief Construction Engineer's Recommendation: Approved Disapproved X None
13. Executive Director's Recommendation: X Approved Disapproved None

HIDALGO CO. REGIONAL MOBILITY AUTHORITY
STATEMENT OF NET POSITION NOVEMBER 30, 2024

ASSETS

CURRENT ASSETS

Cash & cash equivalents	\$ 16,876,316
Cash with fiscal agent-promiles	62,152
Cash & cash equivalents-Capital Projects	97,918,118
Accounts Receivable - VR Fees	467,620
Accounts Receivable - Promiles	29,754
Advance	2,513,637
Prepaid expense	578
Prepaid bond insurances	264,132
	<hr/>
Total Current Assets	118,132,307

RESTRICTED ASSETS

Cash & equivalent-Construction 2022 A&B series	22,898,401
Investment-2020 debt service	3,219,053
Investment-debt service: 2022 A&B	2,360,305
Cash & equivalents-debt service reserves: 2022 A&B	19,784,101
Investment-2022 liendebt service	1,065,930
	<hr/>
Total Restricted Assets	49,327,790

CAPITAL ASSETS

Land-ROW	914,934
Land-environmental	441,105
Leasehold improvements	388,932
Office equipment/other	40,946
Right to use-Bldg	437,340
Road-BSIF	3,010,637
Construction in progress	254,192,172
Accumulated depreciation	(646,183)
Accumulated amortization	(295,205)
	<hr/>
Total Capital Assets	258,484,679

TOTAL ASSETS **\$ 425,944,776**

LIABILITIES AND NET POSITION

CURRENT LIABILITIES

Accounts payable-City of Pharr	\$ 205,489
Lease Payable	208,697
O/W Off System Corridor	23,368
Unearned Revenue - Overweight Permit Escrow	62,152
Current Portion of Bond Premium 2020A	45,256
Current Portion of Bond Premium 2022 A	356,126
Current Portion of Bond Premium 2022 B	132,309
	<hr/>
Total Current Liabilities	1,033,397

RESTRICTED LIABILITIES

Current Portion of Long-Term 2020 Debt	2,325,000
Retainage payable	194,010
	<hr/>
Total Restricted Liabilities	2,519,010

LONG-TERM LIABILITIES

2020 Series A Bonds Payable	9,870,000
2020 Series B Bonds Payable	53,260,000
2022 Series A Bonds Payable	157,343,753
2022 Series B Bonds Payable	66,398,144
Bond premium 2020A	1,120,084
Bond premium 2022A	11,010,222
Bond premium 2022B	4,090,549
	<hr/>
Total Long-Term Liabilities	303,092,752

Total Liabilities 306,645,159

NET POSITION

Investment in Capital Assets, Net of Related Debt	(24,971,070)
Restricted for:	
Debt Service	23,910,379
Capital projects	22,898,401
Unrestricted	97,461,907
	<hr/>
Total Net Position	119,299,617

TOTAL LIABILITIES AND NET POSITION **\$ 425,944,776**



Pharr, TX

Balance Sheet

Account Summary

As Of 11/30/2024

Account	Name	Balance
Fund: 41 - HCRMA-GENERAL		
Assets		
41-1-1100-000	GENERAL OPERATING	140,775.69
41-1-1102-000	POOL INVESTMENTS	9,166,863.89
41-1-1102-001	INVESTMENT-ROAD MAINT,	1,125,034.27
41-1-1102-002	INVESTMENT-GENERAL	6,441,641.64
41-1-1113-000	ACCOUNTS RECIEVABLES-VR FEES	467,620.00
41-1-1113-009	ACCOUNTS RECEIVABLE- PROMILES	29,754.00
41-1-1113-100	PROMILES-PREPAID/ESCROW OVERWE	62,151.56
41-1-1601-000	PREPAID EXPENSE	577.72
41-1-1601-001	PREPAID BOND INSURANCE	264,131.78
41-1-1910-001	LAND - RIGHT OF WAY	914,933.99
41-1-1910-002	LAND - ENVIORNMENTAL	441,105.00
41-1-1920-004	LEASEHOLD IMPROV.	388,932.22
41-1-1922-000	ACCUM DEPR - BUILDINGS	-209,157.33
41-1-1940-001	OFFICE FURNITURE & FIXTURES	32,339.94
41-1-1940-002	COMPUTER/SOFTWARE	8,606.51
41-1-1940-003	RIGHT TO USE- BLDG	437,340.00
41-1-1942-000	ACCUM DEPR - MACH & EQUIP	-31,607.47
41-1-1942-001	ACCUM AMORT-BLDG	-295,205.00
41-1-1950-001	ROADS - BSIF	3,010,636.97
41-1-1952-000	ACCUM DEPR - INFRASTRUCTURE	-405,418.28
41-1-1960-000	CONSTRUCTION IN PROGRESS	254,192,172.08
	Total Assets:	276,183,229.18
		<u>276,183,229.18</u>
Liability		
41-2-1212-001	A/P CITY OF PHARR	205,489.24
41-2-1212-008	O/W OFF SYSTEM CORRIDOR	23,368.40
41-2-1212-010	LEASE PAYABLE	208,697.00
41-2-1213-007	CURRENT-UNAMORTIZED-PREM 2022 A	356,125.78
41-2-1213-008	CURRENT-UNAMORTIZED-PREM 2022 B	132,308.88
41-2-1213-010	CURRENT- UNAMORTIZED- PREM 2020A	45,255.92
41-2-1213-012	BONDS PAYABLE CURRENT- 2020B	2,325,000.00
41-2-1213-100	UNEARNED REV.-OVERWEIGHT	62,151.56
41-2-1214-004	UNAMORTIZED PREM- 2020A	1,120,084.02
41-2-1214-005	LT UNAMORTIZED PREM 2022 A	11,010,221.88
41-2-1214-006	LT UNAMORTIZED PREM 2022 B	4,090,549.22
41-2-1214-011	LONG TERM BONDS- 2020A	9,870,000.00
41-2-1214-012	LONG TERM BONDS- 2020B	53,260,000.00
41-2-1214-013	LT BOND PAY 2022 A	157,343,752.50
41-2-1214-014	LT BOND PAY 2022 B	66,398,144.30
	Total Liability:	306,451,148.70
Equity		
41-3-3400-000	FUND BALANCE	-32,977,689.46
	Total Beginning Equity:	-32,977,689.46
Total Revenue		9,216,846.94
Total Expense		6,507,077.00
Revenues Over/Under Expenses		<u>2,709,769.94</u>
	Total Equity and Current Surplus (Deficit):	-30,267,919.52
	Total Liabilities, Equity and Current Surplus (Deficit):	<u>276,183,229.18</u>



Pharr, TX

Income Statement Account Summary

For Fiscal: 2024 Period Ending: 11/30/2024

		Original Total Budget	Current Total Budget	MTD Activity	YTD Activity	Budget Remaining
Fund: 41 - HCRMA-GENERAL						
Revenue						
<u>41-4-1504-000</u>	VEHICLE REGISTRATION FEES	7,500,000.00	7,500,000.00	467,620.00	6,611,980.00	888,020.00
<u>41-4-1505-005</u>	PROMILES-OW/OS PERMIT FEES	1,300,000.00	1,300,000.00	136,911.95	1,841,184.00	-541,184.00
<u>41-4-1506-000</u>	INTEREST REVENUE	200,000.00	200,000.00	65,766.19	757,964.46	-557,964.46
<u>41-4-1999-006</u>	TRANSFER IN DEBT SERVICE	0.00	0.00	0.00	5,707.84	-5,707.84
<u>41-4-4664-000</u>	MISCELLANEOUS	0.00	0.00	0.00	10.64	-10.64
Revenue Total:		9,000,000.00	9,000,000.00	670,298.14	9,216,846.94	-216,846.94
Expense						
<u>41-52900-1100-000</u>	SALARIES	770,700.00	770,700.00	68,200.24	515,937.96	254,762.04
<u>41-52900-1104-000</u>	OVERTIME	500.00	500.00	204.45	1,678.04	-1,178.04
<u>41-52900-1105-000</u>	FICA	61,945.00	61,945.00	3,609.72	35,896.69	26,048.31
<u>41-52900-1106-000</u>	HEALTH INSURANCE	50,465.00	50,465.00	2,474.52	27,215.04	23,249.96
<u>41-52900-1106-001</u>	HEALTH INSURANCE- OTHER	1,500.00	1,500.00	55.00	495.00	1,005.00
<u>41-52900-1115-000</u>	EMPLOYEES RETIREMENT	96,763.00	96,763.00	8,199.28	61,608.31	35,154.69
<u>41-52900-1115-001</u>	RETIREMENT- USCT	90,000.00	90,000.00	0.00	0.00	90,000.00
<u>41-52900-1116-000</u>	PHONE ALLOWANCE	7,500.00	7,500.00	588.45	4,581.51	2,918.49
<u>41-52900-1117-000</u>	CAR ALLOWANCE	26,400.00	26,400.00	1,938.45	15,092.25	11,307.75
<u>41-52900-1122-000</u>	EAP- ASSISTANCE PROGRAM	122.00	122.00	0.00	0.00	122.00
<u>41-52900-1178-000</u>	ADMIN FEE	13,650.00	13,650.00	1,275.00	9,150.00	4,500.00
<u>41-52900-1179-000</u>	CONTINGENCY	38,538.00	38,538.00	0.00	0.00	38,538.00
<u>41-52900-1200-000</u>	OFFICE SUPPLIES	12,000.00	12,000.00	62.92	3,164.71	8,835.29
<u>41-52900-1603-000</u>	BUILDING REMODEL	20,000.00	20,000.00	0.00	0.00	20,000.00
<u>41-52900-1604-000</u>	MAINTENANCE & REPAIR	10,000.00	10,000.00	0.00	2,680.58	7,319.42
<u>41-52900-1605-000</u>	JANITORIAL	1,000.00	1,000.00	0.00	0.00	1,000.00
<u>41-52900-1606-000</u>	UTILITIES	2,800.00	2,800.00	137.26	2,260.12	539.88
<u>41-52900-1607-000</u>	CONTRACTUAL ADM/IT SERVICES	12,000.00	12,000.00	850.00	11,851.12	148.88
<u>41-52900-1607-001</u>	CONTRACTUAL SERVICES	0.00	0.00	0.00	3,936.00	-3,936.00
<u>41-52900-1610-000</u>	DUES & SUBSCRIPTIONS	18,000.00	18,000.00	0.00	14,489.00	3,511.00
<u>41-52900-1610-001</u>	SUBSCRIPTIONS-SOFTWARE	1,200.00	1,200.00	5.70	52.50	1,147.50
<u>41-52900-1611-000</u>	POSTAGE/FEDEX/COURTIER	2,500.00	2,500.00	205.68	1,671.85	828.15
<u>41-52900-1620-000</u>	GENERAL LIABILITY	5,000.00	5,000.00	0.00	3,727.20	1,272.80
<u>41-52900-1621-000</u>	INSURANCE-E&O	2,000.00	2,000.00	0.00	1,661.02	338.98
<u>41-52900-1622-000</u>	INSURANCE-SURETY	800.00	800.00	0.00	693.36	106.64
<u>41-52900-1623-000</u>	INSURANCE-LETTER OF CREDIT	500.00	500.00	0.00	0.00	500.00
<u>41-52900-1623-001</u>	INSURANCE-OTHER	4,000.00	4,000.00	0.00	6,410.89	-2,410.89
<u>41-52900-1623-002</u>	INSURANCE- CYBERSECURITY	10,000.00	10,000.00	0.00	8,093.08	1,906.92
<u>41-52900-1630-000</u>	BUSINESS MEALS	2,000.00	2,000.00	0.00	2,931.15	-931.15
<u>41-52900-1640-000</u>	ADVERTISING	2,000.00	2,000.00	0.00	1,727.33	272.67
<u>41-52900-1650-000</u>	TRAINING	8,000.00	8,000.00	480.00	3,528.00	4,472.00
<u>41-52900-1660-000</u>	TRAVEL	8,000.00	8,000.00	0.00	830.71	7,169.29
<u>41-52900-1662-000</u>	PRINTING & PUBLICATIONS	10,000.00	10,000.00	0.00	383.05	9,616.95
<u>41-52900-1703-000</u>	BANK SERVICE CHARGES	100.00	100.00	0.00	0.00	100.00
<u>41-52900-1705-000</u>	ACCOUNTING FEES	40,000.00	40,000.00	205.00	33,050.00	6,950.00
<u>41-52900-1710-000</u>	LEGAL FEES	50,000.00	50,000.00	1,018.75	25,824.70	24,175.30
<u>41-52900-1710-001</u>	LEGAL FEES-GOV.AFFAIRS	120,000.00	120,000.00	10,000.00	100,000.00	20,000.00
<u>41-52900-1712-000</u>	FINANCIAL CONSULTING FEES	55,000.00	55,000.00	10,173.39	29,391.34	25,608.66
<u>41-52900-1712-001</u>	INSURANCE CONSULTANT	10,000.00	10,000.00	0.00	7,000.00	3,000.00
<u>41-52900-1715-000</u>	RENT-OFFICE	54,000.00	54,000.00	4,480.00	49,280.00	4,720.00
<u>41-52900-1715-001</u>	RENT-OFFICE EQUIPMENT	8,500.00	8,500.00	0.00	7,047.30	1,452.70
<u>41-52900-1715-002</u>	RENT-OTHER	3,000.00	3,000.00	258.00	2,234.00	766.00
<u>41-52900-1716-000</u>	CONTRACTUAL WEBSITE SERVICES	2,400.00	2,400.00	200.00	2,000.00	400.00
<u>41-52900-1731-000</u>	MISCELLANEOUS	500.00	500.00	0.00	3,500.00	-3,000.00

Income Statement

For Fiscal: 2024 Period Ending: 11/30/2024

		Original Total Budget	Current Total Budget	MTD Activity	YTD Activity	Budget Remaining
41-52900-1732-000	PENALTIES & INTEREST	100.00	100.00	0.00	0.00	100.00
41-52900-1794-000	DEPRECIATION EXPENSE	0.00	0.00	198,640.08	198,640.08	-198,640.08
41-52900-1799-000	PREMIUM AMORTIZATION	0.00	0.00	-522,324.85	-522,324.85	522,324.85
41-52900-1850-000	CAPITAL OUTLAY	10,000.00	10,000.00	0.00	0.00	10,000.00
41-52900-1850-001	LAND ACQUISITION	1,085,000.00	1,085,000.00	0.00	0.00	1,085,000.00
41-52900-1899-000	NON-CAPITAL	10,000.00	10,000.00	0.00	0.00	10,000.00
41-52900-1999-003	TRANSFER OUT TO DEBT	0.00	0.00	0.00	24,800.00	-24,800.00
41-52900-1999-006	TRANS OUT- 2020 DEBT SVC	3,973,317.00	3,973,317.00	335,109.78	3,646,207.58	327,109.42
41-52900-1999-011	TRANSFER OUT 2022 DEBT	0.00	0.00	0.00	1,050,007.94	-1,050,007.94
41-53000-1100-000	SALARIES	727,860.00	727,860.00	55,906.51	521,924.21	205,935.79
41-53000-1104-000	OVERTIME	50,000.00	50,000.00	19,894.84	94,387.30	-44,387.30
41-53000-1105-000	FICA	62,290.00	62,290.00	5,825.98	47,149.41	15,140.59
41-53000-1106-000	HEALTH INSURANCE	74,234.00	74,234.00	3,093.15	45,150.63	29,083.37
41-53000-1115-000	EMPLOYEES RETIREMENT	97,303.00	97,303.00	9,943.93	80,929.30	16,373.70
41-53000-1116-000	PHONE ALLOWANCE	12,000.00	12,000.00	692.25	6,530.24	5,469.76
41-53000-1117-000	CAR ALLOWANCE	7,200.00	7,200.00	830.76	6,468.08	731.92
41-53000-1122-000	EAP- ASSISTANCE PROGRAM	174.00	174.00	0.00	0.00	174.00
41-53000-1178-000	ADMN FEE	19,500.00	19,500.00	1,350.00	13,725.00	5,775.00
41-53000-1179-000	CONTINGENCY	36,393.00	36,393.00	0.00	0.00	36,393.00
41-53000-1200-000	OFFICE SUPPLIES	5,000.00	5,000.00	277.46	2,333.87	2,666.13
41-53000-1201-000	SMALL TOOLS	10,000.00	10,000.00	279.56	2,084.78	7,915.22
41-53000-1604-000	MAINTENANCE & REPAIRS	0.00	0.00	0.00	20.00	-20.00
41-53000-1605-000	JANITORIAL	300.00	300.00	0.00	0.00	300.00
41-53000-1606-001	UTILITIES	750.00	750.00	58.10	581.00	169.00
41-53000-1608-000	UNIFORMS	6,000.00	6,000.00	0.00	842.08	5,157.92
41-53000-1610-000	DUES & SUBSCRIPTIONS	2,000.00	2,000.00	0.00	1,878.99	121.01
41-53000-1610-001	SUBSCRIPTIONS - SOFTWARE	25,000.00	25,000.00	0.00	21,325.00	3,675.00
41-53000-1611-000	POSTAGE/FEDEX/COURTIER	250.00	250.00	0.00	0.00	250.00
41-53000-1640-000	ADVERTISING	4,000.00	4,000.00	1,168.00	35,087.45	-31,087.45
41-53000-1650-000	TRAINING	10,000.00	10,000.00	25.00	225.00	9,775.00
41-53000-1660-000	TRAVEL	20,000.00	20,000.00	325.77	1,944.10	18,055.90
41-53000-1662-000	PRINTING & PUBLICATIONS	100.00	100.00	0.00	0.00	100.00
41-53000-1715-001	RENTAL - OFFICE EQUIPMENT	3,500.00	3,500.00	0.00	2,194.60	1,305.40
41-53000-1715-002	RENT-OTHER	2,800.00	2,800.00	0.00	0.00	2,800.00
41-53000-1715-010	VEHICLE RENTAL	70,000.00	70,000.00	3,608.76	58,913.07	11,086.93
41-53000-1715-011	VEHICLE INSURANCE	6,000.00	6,000.00	0.00	2,106.59	3,893.41
41-53000-1715-012	VEHICLE MAINTENANCE	2,500.00	2,500.00	99.96	1,703.52	796.48
41-53000-1715-013	VEHICLE FUEL	10,000.00	10,000.00	0.00	7,802.18	2,197.82
41-53000-1850-000	CAPITAL OUTLAY	8,000.00	8,000.00	0.00	0.00	8,000.00
41-53000-1899-000	NON-CAPITALIZED	3,000.00	3,000.00	0.00	0.00	3,000.00
41-54000-1100-000	SALARIES	500,000.00	500,000.00	16,153.86	43,076.96	456,923.04
41-54000-1105-000	FICA	38,300.00	38,300.00	1,292.98	3,433.83	34,866.17
41-54000-1106-000	HEALTH INSURANCE	29,694.00	29,694.00	618.63	2,472.70	27,221.30
41-54000-1115-000	EMPLOYEES RETIREMENT	37,600.00	37,600.00	2,202.03	5,872.08	31,727.92
41-54000-1116-000	PHONE ALLOWANCE	4,800.00	4,800.00	138.45	369.20	4,430.80
41-54000-1117-000	CAR ALLOWANCE	21,600.00	21,600.00	830.76	2,215.36	19,384.64
41-54000-1122-000	EAP- ASSISTANCE PROGRAM	70.00	70.00	0.00	0.00	70.00
41-54000-1178-000	ADMN FEE	7,800.00	7,800.00	225.00	600.00	7,200.00
41-54000-1179-000	CONTINGENCY	21,600.00	21,600.00	0.00	0.00	21,600.00
41-54000-1200-000	OFFICE SUPPLIES	2,500.00	2,500.00	0.00	455.80	2,044.20
41-54000-1610-000	DUES & SUBSCRIPTIONS	3,000.00	3,000.00	0.00	0.00	3,000.00
41-54000-1610-001	SUBSCRIPTIONS-SOFTWARE	75,000.00	75,000.00	47,959.80	91,777.04	-16,777.04
41-54000-1611-000	POSTAGE/FEDEX/COURTIER	100.00	100.00	0.00	0.00	100.00
41-54000-1640-000	ADVERTISING	3,500.00	3,500.00	0.00	0.99	3,499.01
41-54000-1650-000	TRAINING	5,000.00	5,000.00	0.00	594.49	4,405.51
41-54000-1660-000	TRAVEL	8,000.00	8,000.00	0.00	0.00	8,000.00
41-54000-1899-000	NON-CAPITALIZED	10,000.00	10,000.00	0.00	0.00	10,000.00
41-58000-1604-001	MAINTENANCE AND REPAIR -BSIF	3,000.00	3,000.00	0.00	1,860.00	1,140.00



Pharr, TX

Bank Statement Register

GENERAL OPERATING

Period 11/1/2024 - 11/30/2024

Packet: BRPKT04840

Bank Statement

Beginning Balance	114,405.52
Plus Debits	410,670.57
Less Credits	335,042.01
Adjustments	0.00
Ending Balance	190,034.08

General Ledger

Account Balance	140,775.69
Less Outstanding Debits	0.00
Plus Outstanding Credits	49,258.39
Adjustments	0.00
Adjusted Account Balance	190,034.08

012/15/24

Statement Ending Balance	190,034.08
Bank Difference	0.00
General Ledger Difference	0.00

CASH BALANCE CONSISTS OF THE FOLLOWING GENERAL LEDGER ACCOUNTS

41-1-1100-000 GENERAL OPERATING

Cleared Deposits

Item Date	Reference	Item Type	Description	Amount
11/30/2024	DEP0094956	Deposit	TO RECORD MONTHLY DISB	250,390.22
11/30/2024	DEP0094975	Deposit	TO RECORD FOR FLEET FUEL EXPENSE FUN	3,167.80
11/30/2024	DEP0094976	Deposit	TO RECORD REV FUN 41 HCRMA NOV 2024	36,396.00
11/30/2024	DEP0094977	Deposit	TO RECORD REV FUN 41 HCRMA NOV 2024	3,238.30
11/30/2024	DEP0094978	Deposit	TO RECORD REV FUN 41 HCRMA NOV 2024	37,206.00
11/30/2024	DEP0094979	Deposit	TO RECORD REV FUN 41 HCRMA NOV 2024	3,243.00
11/30/2024	DEP0094980	Deposit	TO RECORD REV FUN 41 HCRMA NOV 2024	37,260.00
11/30/2024	DEP0094981	Deposit	TO RECORD REV FUN 41 HCRMA NOV 2024	3,184.25
11/30/2024	DEP0094982	Deposit	TO RECORD REV FUN 41 HCRMA NOV 2024	36,585.00
Total Cleared Deposits (9)				410,670.57

Cleared Checks

Item Date	Reference	Item Type	Description	Amount
10/24/2024	2854	Check	ADVANCE PUBLISHING LLC	-220.50
10/24/2024	2857	Check	HUB INTERNATIONAL TEXAS, INC.	-991.25
10/24/2024	2858	Check	OFFICE DEPOT	-79.78
10/31/2024	2861	Check	RIO GRANDE COUNCIL, INC., BOY SCOUTS	-2,500.00
11/20/2024	2862	Check	A FAST DELIVERY	-123.00
11/20/2024	2863	Check	AIM MEDIA TEXAS BUSINESS OFFICE	-1,168.00
11/20/2024	2866	Check	HILLTOP SECURITIES INC.	-8,500.00
11/20/2024	2867	Check	HUB INTERNATIONAL TEXAS, INC.	-975.00
11/20/2024	2868	Check	OFFICE DEPOT	-196.46

Cleared Checks

Item Date	Reference	Item Type	Description	Amount
11/20/2024	2869	Check	SHI GOVERNMENT SOLUTIONS	-3,399.80
Total Cleared Checks (10)				-18,153.79

Cleared Other

Item Date	Reference	Item Type	Description	Amount
11/04/2024	DFT0012647	Bank Draft	PHARR ECONOMIC DEVELOPMENT CORPOR	-4,480.00
11/04/2024	DFT0012650	Bank Draft	PENA DESIGNS	-200.00
11/05/2024	DFT0012651	Bank Draft	RAMON NAVARRO	-325.77
11/07/2024	DFT0012642	Bank Draft	CITY OF PHARR	-850.00
11/08/2024	DFT0012652	Bank Draft	RAMON NAVARRO	-30.00
11/12/2024	DFT0012644	Bank Draft	CITY OF PHARR	-205.00
11/12/2024	DFT0012645	Bank Draft	CITY OF PHARR	-6,150.00
11/12/2024	DFT0012646	Bank Draft	CITY OF PHARR	-3,608.76
11/21/2024	EFT0005634	EFT	TO RECORD WIRE TRANSFER HIDALGO CO	-150,000.00
11/30/2024	DFT0012643	Bank Draft	CITY OF PHARR	-138,360.31
11/30/2024	DFT0012648	Bank Draft	BRACEWELL LLP ATTORNEYS AT LAW	-1,018.75
11/30/2024	DFT0012649	Bank Draft	PATHFINDER PUBLIC AFFAIRS	-10,000.00
11/30/2024	EFT0005630	EFT	CREDIT CARD SERVICES HCRMA FUND 41	-55.00
11/30/2024	EFT0005631	EFT	CREDIT CARD SERVICES HCRMA FUND 41	-471.73
11/30/2024	EFT0005632	EFT	CREDIT CARD SERVICES HCRMA FUND 41	-1,112.90
11/30/2024	EFT0005633	EFT	CREDIT CARD SERVICES HCRMA FUND 41	-20.00
Total Cleared Other (16)				-316,888.22

Outstanding Checks

Item Date	Reference	Item Type	Description	Amount
11/20/2024	2864	Check	BENTLEY SYSTEMS, INC.	-44,560.00
11/20/2024	2865	Check	HILLTOP SECURITIES INC.	-698.39
11/20/2024	2870	Check	WILMINGTON TRUST FEE COLLECTIONS	-4,000.00
Total Outstanding Checks (3)				-49,258.39



Pharr, TX

Bank Statement Register

POOL INVESTMENTS

Period 11/1/2024 - 11/30/2024

Packet: BRPKT04842

012/19/24

Bank Statement		General Ledger	
Beginning Balance	8,981,016.14	Account Balance	9,166,863.89
Plus Debits	185,847.75	Less Outstanding Debits	0.00
Less Credits	0.00	Plus Outstanding Credits	0.00
Adjustments	0.00	Adjustments	0.00
Ending Balance	9,166,863.89	Adjusted Account Balance	9,166,863.89
Statement Ending Balance		9,166,863.89	
Bank Difference		0.00	
General Ledger Difference		0.00	

CASH BALANCE CONSISTS OF THE FOLLOWING GENERAL LEDGER ACCOUNTS

41-1-1102-000 POOL INVESTMENTS

Cleared Deposits

Item Date	Reference	Item Type	Description	Amount
11/21/2024	DEP0094974	Deposit	TO RECORD WIRE TRANSFER HIDALGO CO	150,000.00
11/30/2024	DEP0094949	Deposit	TO RECORD INTEREST FUND 41	35,847.75
Total Cleared Deposits (2)				185,847.75



Pharr, TX

Bank Statement Register

RMA LOGIC ROAD MAINT

Period 11/1/2024 - 11/30/2024

Packet: BRPKT04843

01/19/24

Bank Statement

General Ledger

Beginning Balance	1,120,585.92
Plus Debits	4,448.35
Less Credits	0.00
Adjustments	0.00
Ending Balance	1,125,034.27

Account Balance	1,125,034.27
Less Outstanding Debits	0.00
Plus Outstanding Credits	0.00
Adjustments	0.00
Adjusted Account Balance	1,125,034.27

Statement Ending Balance	1,125,034.27
Bank Difference	0.00
General Ledger Difference	0.00

CASH BALANCE CONSISTS OF THE FOLLOWING GENERAL LEDGER ACCOUNTS

41-1-1102-001 INVESTMENT-ROAD MAINT,

Cleared Deposits

Item Date	Reference	Item Type	Description	Amount
11/30/2024	<u>DEP0094950</u>	Deposit	TO RECORD INTEREST FUND 41	4,448.35
Total Cleared Deposits (1)				4,448.35



Pharr, TX

Bank Statement Register

INVESTMENT-GENERAL

Period 11/1/2024 - 11/30/2024

Packet: BRPKT04844

Bank Statement

General Ledger

Beginning Balance	6,416,171.55
Plus Debits	25,470.09
Less Credits	0.00
Adjustments	0.00
Ending Balance	6,441,641.64

Account Balance	6,441,641.64
Less Outstanding Debits	0.00
Plus Outstanding Credits	0.00
Adjustments	0.00
Adjusted Account Balance	6,441,641.64

Statement Ending Balance	6,441,641.64
Bank Difference	0.00
General Ledger Difference	0.00

CASH BALANCE CONSISTS OF THE FOLLOWING GENERAL LEDGER ACCOUNTS

41-1-1102-002 INVESTMENT-GENERAL

Cleared Deposits

Item Date	Reference	Item Type	Description	Amount
11/30/2024	DEP0094991	Deposit	TO RECORD INTEREST FUND 41 HCRMA NC	25,470.09
Total Cleared Deposits (1)				25,470.09



Pharr, TX

Balance Sheet
Account Summary
As Of 11/30/2024

Account	Name	Balance
Fund: 42 - HCRMA-DEBT SERVICE		
Assets		
<u>42-1-1102-002</u>	INVESTMENTS D/S 2022 A SERIES	2,358,003.13
<u>42-1-1102-003</u>	INVESTMENTS D/S2022 B SERIES	548.83
<u>42-1-1102-004</u>	INVESTMENT SR 2022A	1,753.04
<u>42-1-1102-010</u>	INVESTMENTS RESERVE D/S 2022 A SERIE	13,634,750.89
<u>42-1-1102-011</u>	INVESTMENTS RESERVE D/S 2022 B SERIE	6,149,351.30
<u>42-1-1102-012</u>	INVESTMENT JR LIEN REV BDS 2022B	1,065,929.56
<u>42-1-4105-002</u>	DEBT SERVICE- 2020 SERIES	3,219,052.97
	Total Assets:	26,429,389.72
		<u>26,429,389.72</u>
Liability		
	Total Liability:	0.00
Equity		
<u>42-3-4400-000</u>	FUND BALANCE	23,256,075.42
	Total Beginning Equity:	23,256,075.42
Total Revenue		5,884,790.56
Total Expense		2,711,476.26
Revenues Over/Under Expenses		<u>3,173,314.30</u>
	Total Equity and Current Surplus (Deficit):	26,429,389.72
	Total Liabilities, Equity and Current Surplus (Deficit):	<u>26,429,389.72</u>



Pharr, TX

Income Statement Account Summary

For Fiscal: 2024 Period Ending: 11/30/2024

		Original Total Budget	Current Total Budget	MTD Activity	YTD Activity	Budget Remaining
Fund: 42 - HCRMA-DEBT SERVICE						
Revenue						
42-4-1506-000	INTEREST INCOME	0.00	0.00	0.00	60,850.97	-60,850.97
42-4-1506-001	INTEREST INCOME-JR LIEN	0.00	0.00	0.00	8.27	-8.27
42-4-1506-002	INTEREST 2020 SERIES	0.00	0.00	10,487.85	63,972.01	-63,972.01
42-4-1506-003	INTEREST 2022 A SERIES	0.00	0.00	9,038.35	141,405.04	-141,405.04
42-4-1506-004	INTEREST 2022 B SERIES	0.00	0.00	4,084.84	16,678.82	-16,678.82
42-4-1506-010	INTEREST RESERVE 2022 A SERIES	0.00	0.00	53,911.26	588,182.27	-588,182.27
42-4-1506-011	INTEREST RESERVE 2022 B SERIES	0.00	0.00	24,314.22	292,677.66	-292,677.66
42-4-1999-000	TRANSFERS IN-FROM GENERAL FUND	0.00	0.00	335,109.78	4,721,015.52	-4,721,015.52
Revenue Total:		0.00	0.00	436,946.30	5,884,790.56	-5,884,790.56
Expense						
42-52900-4703-005	INTEREST EXPENSE- 2020 SERIES	0.00	0.00	0.00	686,798.70	-686,798.70
42-52900-4703-006	INTEREST EXPESNE- 2022 A BOND	0.00	0.00	0.00	1,373,292.00	-1,373,292.00
42-52900-4703-007	INTEREST EXPENSE- 2022 B BONDS	0.00	0.00	0.00	615,979.00	-615,979.00
42-52900-4727-000	FEES	0.00	0.00	4,000.00	29,698.72	-29,698.72
42-52900-8899-002	TRANSFER OUT GEN FUND	0.00	0.00	0.00	5,707.84	-5,707.84
Expense Total:		0.00	0.00	4,000.00	2,711,476.26	-2,711,476.26
Fund: 42 - HCRMA-DEBT SERVICE Surplus (Deficit):		0.00	0.00	432,946.30	3,173,314.30	
Total Surplus (Deficit):		0.00	0.00	432,946.30	3,173,314.30	



Pharr, TX

Bank Statement Register

INVESTMENT D/S 2022A SERIES

Period 11/1/2024 - 11/30/2024

Packet: BRPKT04846

Bank Statement

General Ledger

Beginning Balance 2,348,971.59
Plus Debits 9,031.54
Less Credits 0.00
Adjustments 0.00
Ending Balance 2,358,003.13

Account Balance 2,358,003.13
Less Outstanding Debits 0.00
Plus Outstanding Credits 0.00
Adjustments 0.00
Adjusted Account Balance 2,358,003.13

Statement Ending Balance 2,358,003.13
Bank Difference 0.00
General Ledger Difference 0.00

CASH BALANCE CONSISTS OF THE FOLLOWING GENERAL LEDGER ACCOUNTS

42-1-1102-002 INVESTMENTS D/S 2022 A SERIES

Cleared Deposits

Item Date	Reference	Item Type	Description	Amount
11/30/2024	<u>DEP0094961</u>	Deposit	TO RECORD INTEREST FUND 42 HCRMA	9,031.54
Total Cleared Deposits (1)				9,031.54



Pharr, TX

Bank Statement Register

INVESTMENT D/S 2022B SERIES

Period 11/1/2024 - 11/30/2024

Packet: BRPKT04847

02/19/24

Bank Statement

General Ledger

Beginning Balance	546.66
Plus Debits	2.17
Less Credits	0.00
Adjustments	0.00
Ending Balance	548.83

Account Balance	548.83
Less Outstanding Debits	0.00
Plus Outstanding Credits	0.00
Adjustments	0.00
Adjusted Account Balance	548.83

Statement Ending Balance	548.83
Bank Difference	0.00
General Ledger Difference	0.00

CASH BALANCE CONSISTS OF THE FOLLOWING GENERAL LEDGER ACCOUNTS

42-1-1102-003 INVESTMENTS D/S2022 B SERIES

Cleared Deposits

Item Date	Reference	Item Type	Description	Amount
11/30/2024	DEP0094962	Deposit	TO RECORD INTEREST FUND 42 HCRMA	2.17
Total Cleared Deposits (1)				2.17



Pharr, TX

Bank Statement Register

INVESTMENT SR 2022A

Period 11/1/2024 - 11/30/2024

Packet: BRPKT04848

012/19/24

Bank Statement

General Ledger

Beginning Balance	1,746.23
Plus Debits	6.81
Less Credits	0.00
Adjustments	0.00
Ending Balance	1,753.04

Account Balance	1,753.04
Less Outstanding Debits	0.00
Plus Outstanding Credits	0.00
Adjustments	0.00
Adjusted Account Balance	1,753.04

Statement Ending Balance	1,753.04
Bank Difference	0.00
General Ledger Difference	0.00

CASH BALANCE CONSISTS OF THE FOLLOWING GENERAL LEDGER ACCOUNTS

42-1-1102-004 INVESTMENT SR 2022A

Cleared Deposits

Item Date	Reference	Item Type	Description	Amount
11/30/2024	DEP0094963	Deposit	TO RECORD INTEREST FUND 42 HCRMA	6.81
Total Cleared Deposits (1)				6.81



Pharr, TX

Bank Statement Register

INVESTMENT RESERVE D/S 2022A SERIES

Period 11/1/2024 - 11/30/2024

Packet: BRPKT04849

Bank Statement

General Ledger

Beginning Balance	13,580,839.63
Plus Debits	53,911.26
Less Credits	0.00
Adjustments	0.00
Ending Balance	13,634,750.89

Account Balance	13,634,750.89
Less Outstanding Debits	0.00
Plus Outstanding Credits	0.00
Adjustments	0.00
Adjusted Account Balance	13,634,750.89

Statement Ending Balance	13,634,750.89
Bank Difference	0.00
General Ledger Difference	0.00

CASH BALANCE CONSISTS OF THE FOLLOWING GENERAL LEDGER ACCOUNTS

42-1-1102-010 INVESTMENTS RESERVE D/S 2022 A SERIES

Cleared Deposits

Item Date	Reference	Item Type	Description	Amount
11/30/2024	DEP0094964	Deposit	TO RECORD INTEREST FUND 42 HCRMA	53,911.26
Total Cleared Deposits (1)				53,911.26



Pharr, TX

Bank Statement Register

INVESTMENT RESERVE D/S 2022B SERIES

Period 11/1/2024 - 11/30/2024

Packet: BRPKT04850

012/19/24

Bank Statement

General Ledger

Beginning Balance	6,125,037.08
Plus Debits	24,314.22
Less Credits	0.00
Adjustments	0.00
Ending Balance	6,149,351.30

Account Balance	6,149,351.30
Less Outstanding Debits	0.00
Plus Outstanding Credits	0.00
Adjustments	0.00
Adjusted Account Balance	6,149,351.30

Statement Ending Balance	6,149,351.30
Bank Difference	0.00
General Ledger Difference	0.00

CASH BALANCE CONSISTS OF THE FOLLOWING GENERAL LEDGER ACCOUNTS

42-1-1102-011 INVESTMENTS RESERVE D/S 2022 B SERIES

Cleared Deposits

Item Date	Reference	Item Type	Description	Amount
11/30/2024	DEP0094965	Deposit	TO RECORD INTEREST FUND 42 HCRMA	24,314.22
Total Cleared Deposits (1)				24,314.22



Pharr, TX

Bank Statement Register

INVESTMENT JR LIEN REV BDS 2022B

Period 11/1/2024 - 11/30/2024

Packet: BRPKT04851

01/19/24

Bank Statement

General Ledger

Beginning Balance	1,061,846.89
Plus Debits	4,082.67
Less Credits	0.00
Adjustments	0.00
Ending Balance	1,065,929.56

Account Balance	1,065,929.56
Less Outstanding Debits	0.00
Plus Outstanding Credits	0.00
Adjustments	0.00
Adjusted Account Balance	1,065,929.56

Statement Ending Balance	1,065,929.56
Bank Difference	0.00
General Ledger Difference	0.00

CASH BALANCE CONSISTS OF THE FOLLOWING GENERAL LEDGER ACCOUNTS

42-1-1102-012 INVESTMENT JR LIEN REV BDS 2022B

Cleared Deposits

Item Date	Reference	Item Type	Description	Amount
11/30/2024	DEP0094966	Deposit	TO RECORD INTEREST FUND 42 HCRMA	4,082.67
Total Cleared Deposits (1)				4,082.67



Pharr, TX

Bank Statement Register

INVESTMENTS D/S 2020 SERIES -

Period 11/1/2024 - 11/30/2024

Packet: BRPKT04852

Bank Statement

General Ledger

Beginning Balance	2,877,455.34
Plus Debits	341,597.63
Less Credits	0.00
Adjustments	0.00
Ending Balance	3,219,052.97

Account Balance	3,219,052.97
Less Outstanding Debits	0.00
Plus Outstanding Credits	0.00
Adjustments	0.00
Adjusted Account Balance	3,219,052.97

Statement Ending Balance	3,219,052.97
Bank Difference	0.00
General Ledger Difference	0.00

CASH BALANCE CONSISTS OF THE FOLLOWING GENERAL LEDGER ACCOUNTS

42-1-4105-002 DEBT SERVICE- 2020 SERIES

Cleared Deposits

Item Date	Reference	Item Type	Description	Amount
11/30/2024	<u>DEP0094967</u>	Deposit	TO RECORD INTEREST FUND 42 HCRMA	341,597.63
Total Cleared Deposits (1)				341,597.63



Pharr, TX

Balance Sheet

Account Summary

As Of 11/30/2024

Account	Name	Balance
Fund: 44 - HCRMA-365 CONSTRUCTION		
Assets		
<u>44-1-1102-001</u>	INVESTMENTS - 2022 A SERIES	22,898,399.04
<u>44-1-1102-002</u>	INVESTMENTS - 2022 B SERIES	2.39
	Total Assets:	22,898,401.43
		<u>22,898,401.43</u>
Liability		
<u>44-2-1212-009</u>	RETAINAGE PAYABLE	194,010.43
	Total Liability:	194,010.43
Equity		
<u>44-3-1400-000</u>	FUND BALANCE	61,035,692.50
	Total Beginning Equity:	61,035,692.50
Total Revenue		2,066,476.05
Total Expense		40,397,777.55
Revenues Over/Under Expenses		-38,331,301.50
	Total Equity and Current Surplus (Deficit):	22,704,391.00
	Total Liabilities, Equity and Current Surplus (Deficit):	<u>22,898,401.43</u>



Pharr, TX

Income Statement

Account Summary

For Fiscal: 2024 Period Ending: 11/30/2024

		Original Total Budget	Current Total Budget	MTD Activity	YTD Activity	Budget Remaining
Fund: 44 - HCRMA-365 CONSTRUCTION						
Revenue						
<u>44-4-1506-000</u>	INTEREST REVENUE	0.00	0.00	103,031.98	2,066,476.05	-2,066,476.05
Revenue Total:		0.00	0.00	103,031.98	2,066,476.05	-2,066,476.05
Expense						
<u>44-52900-8800-000</u>	CONSULTING AND ENGINEERING	0.00	0.00	349,109.37	3,097,119.91	-3,097,119.91
<u>44-52900-8810-000</u>	SH 365-ENVIROMENTAL	0.00	0.00	0.00	168,672.50	-168,672.50
<u>44-52900-8810-003</u>	SH365-ROW	0.00	0.00	0.00	30,181.50	-30,181.50
<u>44-52900-8841-000</u>	PROFESSIONAL SERVICES	0.00	0.00	24,269.90	198,214.49	-198,214.49
<u>44-52900-8844-000</u>	365 PROJECT CONSTRUCTION A-FEDERAL	0.00	0.00	0.00	25,342,930.65	-25,342,930.65
<u>44-52900-8844-001</u>	365 PROJECT CONSTRUCTION A-LOCAL	0.00	0.00	4,890.50	10,597,128.42	-10,597,128.42
<u>44-52900-8860-000</u>	365 TOLLWAY SYSTEM	0.00	0.00	48,233.79	963,530.08	-963,530.08
Expense Total:		0.00	0.00	426,503.56	40,397,777.55	-40,397,777.55
Fund: 44 - HCRMA-365 CONSTRUCTION Surplus (Deficit):		0.00	0.00	-323,471.58	-38,331,301.50	
Total Surplus (Deficit):		0.00	0.00	-323,471.58	-38,331,301.50	



Pharr, TX

Bank Statement Register

INVESTMENTS - 2022 A SERIES

Period 11/1/2024 - 11/30/2024

Packet: BRPKT04853

01/14/24

Bank Statement		General Ledger	
Beginning Balance	23,208,125.12	Account Balance	22,898,399.04
Plus Debits	103,031.98	Less Outstanding Debits	0.00
Less Credits	412,758.06	Plus Outstanding Credits	0.00
Adjustments	0.00	Adjustments	0.00
Ending Balance	22,898,399.04	Adjusted Account Balance	22,898,399.04
Statement Ending Balance		22,898,399.04	
Bank Difference		0.00	
General Ledger Difference		0.00	

CASH BALANCE CONSISTS OF THE FOLLOWING GENERAL LEDGER ACCOUNTS

44-1-1102-001 INVESTMENTS - 2022 A SERIES

Cleared Deposits

Item Date	Reference	Item Type	Description	Amount
11/30/2024	DEP0095004	Deposit	TO RECORD INTEREST REV HCRMA FUND 4	103,031.98
Total Cleared Deposits (1)				103,031.98

Cleared Other

Item Date	Reference	Item Type	Description	Amount
11/30/2024	EFT0005636	EFT	TO RECLASS EXPENSES ACHR FROM 44 TO	-48,233.79
11/30/2024	EFT0005637	EFT	TO RECLASS EXPENSES ACHR FROM 44 TO	-16,654.13
11/30/2024	EFT0005638	EFT	TO RECLASS EXPENSES ACHR FROM 44 TO	-3,487.50
11/30/2024	EFT0005640	EFT	TO RECLASS EXPENSES ACHR FROM 44 TO	-1,128.50
11/30/2024	EFT0005641	EFT	TO RECLASS EXPENSES ACHR FROM 44 TO	-2,680.90
11/30/2024	EFT0005642	EFT	TO RECLASS EXPENSES ACHR FROM 44 TO	-24,663.69
11/30/2024	EFT0005643	EFT	TO RECLASS EXPENSES ACHR FROM 44 TO	-8,118.00
11/30/2024	EFT0005644	EFT	TO RECLASS EXPENSES ACHR FROM 44 TO	-251,143.01
11/30/2024	EFT0005645	EFT	TO RECLASS EXPENSES ACHR FROM 44 TO	-56,648.54
Total Cleared Other (9)				-412,758.06



Pharr, TX

Balance Sheet

Account Summary

As Of 11/30/2024

Account	Name	Balance	
Fund: 45 - HCRMA - CAP.PROJECTS FUND			
Assets			
<u>45-1-1102-000</u>	Pool Investment	97,918,118.50	
<u>45-1-1267-000</u>	ADVANCE	2,513,637.48	
	Total Assets:	100,431,755.98	<u>100,431,755.98</u>
Liability			
	Total Liability:	0.00	
Equity			
<u>45-3-1400-000</u>	Fund Balance	75,581,482.41	
	Total Beginning Equity:	75,581,482.41	
Total Revenue		25,991,670.79	
Total Expense		1,141,397.22	
Revenues Over/Under Expenses		24,850,273.57	
	Total Equity and Current Surplus (Deficit):	100,431,755.98	
	Total Liabilities, Equity and Current Surplus (Deficit):		<u>100,431,755.98</u>



Pharr, TX

Income Statement

Account Summary

For Fiscal: 2024 Period Ending: 11/30/2024

		Original Total Budget	Current Total Budget	MTD Activity	YTD Activity	Budget Remaining
Fund: 45 - HCRMA - CAP.PROJECTS FUND						
Revenue						
<u>45-4-1506-000</u>	Interest Revenue	0.00	0.00	376,699.23	3,818,590.32	-3,818,590.32
<u>45-4-4700-000</u>	Federal Grant	0.00	0.00	1,991,889.03	22,173,080.47	-22,173,080.47
Revenue Total:		0.00	0.00	2,368,588.26	25,991,670.79	-25,991,670.79
Expense						
<u>45-52900-8810-003</u>	365 RIGHT OF WAY	0.00	0.00	2,049.59	3,747.26	-3,747.26
<u>45-52900-8810-004</u>	365 UTILITIES RELOCATION	0.00	0.00	0.00	1,131,624.96	-1,131,624.96
<u>45-52900-8820-003</u>	IBTC - ROW	0.00	0.00	0.00	4,950.00	-4,950.00
<u>45-52900-8820-004</u>	IBTC - Construction	0.00	0.00	0.00	850.00	-850.00
<u>45-52900-8841-000</u>	LEGAL FEES	0.00	0.00	0.00	225.00	-225.00
Expense Total:		0.00	0.00	2,049.59	1,141,397.22	-1,141,397.22
Fund: 45 - HCRMA - CAP.PROJECTS FUND Surplus (Deficit):		0.00	0.00	2,366,538.67	24,850,273.57	
Total Surplus (Deficit):		0.00	0.00	2,366,538.67	24,850,273.57	



Pharr, TX

Bank Statement Register

Pool Investment

Period 11/1/2024 - 11/30/2024

Packet: BRPKT04841

Bank Statement

Beginning Balance	95,551,579.83
Plus Debits	2,368,588.26
Less Credits	2,049.59
Adjustments	0.00
Ending Balance	97,918,118.50

General Ledger

Account Balance	97,918,118.50
Less Outstanding Debits	0.00
Plus Outstanding Credits	0.00
Adjustments	0.00
Adjusted Account Balance	97,918,118.50

12/19/24

Statement Ending Balance	97,918,118.50
Bank Difference	0.00
General Ledger Difference	0.00

CASH BALANCE CONSISTS OF THE FOLLOWING GENERAL LEDGER ACCOUNTS

45-1-1102-000 Pool Investment

Cleared Deposits

Item Date	Reference	Item Type	Description	Amount
11/30/2024	DEP0094987	Deposit	TO RECORD NOV INT HCRMA FUND 45	376,699.23
11/30/2024	DEP0094988	Deposit	TO RECORD FED GRANT BILLING #29 FUN	1,991,889.03
Total Cleared Deposits (2)				2,368,588.26

Cleared Other

Item Date	Reference	Item Type	Description	Amount
11/06/2024	DFT0012660	Bank Draft	HIDALGO COUNTY WATER IMP. DISTRICT I	-801.59
11/30/2024	DFT0012661	Bank Draft	HIDALGO COUNTY IRRIGATION DISTRICT	-1,248.00
Total Cleared Other (2)				-2,049.59

Item 3D

HIDALGO COUNTY REGIONAL MOBILITY AUTHORITY

AGENDA RECOMMENDATION FORM

BOARD OF DIRECTORS	<u> X </u>	AGENDA ITEM	<u> 3D </u>
PLANNING COMMITTEE	<u> </u>	DATE SUBMITTED	<u> 01/15/2025 </u>
FINANCE COMMITTEE	<u> </u>	MEETING DATE	<u> 01/24/2025 </u>
TECHNICAL COMMITTEE	<u> </u>		

1. Agenda Item: **APPROVAL OF QUARTERLY INVESTMENT REPORT FOR THE PERIOD ENDING DECEMBER 31, 2024.**
2. Nature of Request: (Brief Overview) Attachments: X Yes No
Consideration and approval of the quarterly investment reports for the period ending December 31, 2024.
3. Policy Implication: Board Policy, Local Government Code, Texas Government Code, Public Funds Investment Act Section 2256
4. Budgeted: Yes No X N/A
5. Staff Recommendation: **Motion to approve the Quarterly Investment Report for the period ending December 31, 2024, as presented.**
6. Planning Committee's Recommendation: Approved Disapproved X None
7. Board Attorney's Recommendation: Approved Disapproved X None
8. Chief Auditor's Recommendation: Approved Disapproved X None
9. Chief Financial Officer's Recommendation: X Approved Disapproved None
10. Chief Development Engineer's Recommendation: Approved Disapproved X None
11. Chief Construction Engineer's Recommendation: Approved Disapproved X None
12. Executive Director's Recommendation: X Approved Disapproved None



Board of Directors

Robert L. Lozano, Chairman

Ezequiel Reyna, Jr., Vice-Chairman

Juan Carlos Del Ángel, Secretary/Treasurer

Gabriel Kamel, Director

Francisco "Frank" Pardo, Director

Sergio Saenz, Director

Michael J. Williamson, Director

January 14, 2025

To: Robert L. Lozano, Chairman
Members of the Board of Directors

From: Pilar Rodriguez, Executive Director/Investment Officer

RE: Quarterly Investment Report for Quarter Ending December 31, 2024 Statement of Compliance

The above-referenced report is hereby presented, pursuant to the Public Funds Investment Act (PFIA), for your review and acceptance.


This quarter investment disbursements totaled \$19,891,997 consisting of project activities--\$14,355,712 and debt service requirements in the amount of \$5,536,285: (principal payment of \$2,325,000 and interest payments in the amount of \$3,211,285). Other sources included: internal transfers-in totaling \$1,297,497; contributions: (TxDOT Grant)--\$7,554,957; and total interest earned was \$1,962,26.

The PFIA also requires that the report contain a Statement of Compliance, signed by the Investment Officer, as presented below:

STATEMENT OF COMPLIANCE

This report complies with the requirements of the Public Investment Act as well as the Hidalgo County Regional Mobility Authority's (RMA) adopted investment policy. The RMA follows all provisions of the Public Investment Act and the RMA's investment policy.

Presented by RMA Investment Officers:



Pilar Rodriguez, Investment Officer



Jose H. Castillo, Investment Officer

HIDALGO COUNTY REGIONAL MOBILITY AUTHORITY
QUARTERLY INVESTMENT SUMMARY REPORT
Quarter Ending December 31, 2024

	Local Govt. Investment Pool	Government (Federated) Securities	Total
COST			
Beginning Balance	\$ 139,918,660	\$ 20,515,626	\$ 160,434,286
Additions:			
Interfund Transfers-in(net)	-	797,497	797,497
*Transfer of funds	500,000	-	500,000
Contributions	-	7,554,957	7,554,957
Investment earnings-LOGIC	1,706,265	-	1,706,265
Investment earnings-Wilmington Trust		256,061	256,061
Deductions:			-
Disbursements-Debt Service	-	(5,536,285)	(5,536,285)
Construction and related expenses	(5,867,202)	(8,488,510)	(14,355,712)
Ending Balance	<u>\$ 136,257,723</u>	<u>\$ 15,099,346</u>	<u>\$ 151,357,069</u>

*Transfer of funds between Wilmington and Logic accounts.

MARKET VALUE

Beginning Balance	<u>\$ 139,928,454</u>	<u>\$ 20,515,623</u>	<u>\$ 160,444,077</u>
Ending Balance	<u>\$ 136,281,159</u>	<u>\$ 15,099,346</u>	<u>\$ 151,380,505</u>

*Note-Logic interest earned on HCRMA's funds held by Trustee (Wilmington Trust)

Weighted Average Maturity- Logic/Gov. Sec.	48	30
Logic/Gov Sec. Weighted Average Yield	4.84%	4.31%

HIDALGO COUNTY REGIONAL MOBILITY AUTHORITY
HOLDINGS BY INVESTMENTS
QUARTERLY INVESTMENT REPORT
Quarter Ending December 31, 2024

Type of Investment	Beginning Cost	Wilmington Interest	LOGIC Interest	Interfund Transfers/ Contributions	Disbursements	Ending Cost	Market Value
Local Govt. Investment Pool:							
Debt Service Jr. Lien: #7731494002	\$ 189	\$ -	\$ 5	\$ (194)	\$ -	\$ (0)	(0)
Contingency: #2731494001	8,743,574	-	109,935	500,000	-	9,353,509	9,355,117
Road Maintenance: #2731494002	1,115,856	-	13,661	-	-	1,129,517	1,129,711
Total Local Govt. Investment Pool	\$ 9,859,618	\$ -	\$ 123,601	\$ 499,806	\$ -	\$ 10,483,025	\$ 10,484,828
Government Securities (Federated Govt Obligations):							
General FD #154037-003 & #7731494007	\$ 6,389,091	\$ 3	\$ 78,219	\$ -	\$ -	\$ 6,467,313	\$ 6,468,426
Debt Service Fund 2013: #106912-001	21	-	-	(21)	-	(0)	0
Debt Service Fund 2020: #143255-001	2,537,445	30,308	-	797,712	(3,149,159)	216,306	216,306
Debt Service Account Sr Rev Bonds #154037-000	1,704	56	-	-	(1,754)	6	6
Debt Service Account #154037-001	2,340,394	26,016	-	-	(1,646,197)	720,213	720,213
Debt Service Account #154038-000	1,057,969	11,761	-	-	(739,175)	330,555	330,555
Debt Service Account #154038-001	545	6	-	-	-	551	551
DSRF Account #154037-002 & #7731494006	13,523,520	5	165,563	-	-	13,689,088	13,691,443
DSRF Account #154038-002 & #7731494005	6,099,186	3	74,668	-	-	6,173,857	6,174,919
Project Account #154037-006 & #7731494009	27,096,565	86,944	219,294	-	(14,351,606)	13,051,197	13,053,442
Project Account #154038-003 & #7731494010	2	-	-	-	-	2	2
Disbursement Account: #106912-006 & #7731494008	91,528,223	100,959	1,044,923	7,554,957	(4,106)	100,224,956	100,239,814
Total Government Securities	\$ 150,574,665	\$ 256,061	\$ 1,582,667	\$ 8,352,648	\$ (19,891,997)	\$ 140,874,044	\$ 140,895,676
Combined Totals	\$ 160,434,283	\$ 256,061	\$ 1,706,268	\$ 8,852,454	\$ (19,891,997)	\$ 151,357,069	\$ 151,380,505

*Note-Logic interest earned on HCRMA's funds held by Trustee (Wilmington Trust)

**Wilmington Trust Investments Detail Activity
Quarter Ending December 31, 2024**

HIDALGO CO RMA DEBT SERVICE FD #106912-001

		Wilmington	Income LOGIC		Interfund		Ending
Debt Svc.:	Opening balance:	Interest	Interest	Contributions	Transfers	Disbursements	Balance
October	21	-	-	-	(21)	-	-
November		-	-	-	-	-	-
December		-	-	-	-	-	-
		-	-	-	(21)	-	

HIDALGO CO RMA 2020 DS FUND #143255-001

		Wilmington	Income LOGIC		Interfund		Ending
Debt Svc.:	Opening balance:	Interest	Interest	Contributions	Transfers	Disbursements	Balance
October	2,537,445	8,900	-	-	331,110	-	2,877,455
November	2,877,455	10,488	-	-	331,110	-	3,219,053
December	3,219,053	10,920	-	-	135,492	(3,149,159)	216,306
		30,308	-	-	797,712	(3,149,159)	

CONTINGENCY ACCOUNT-LOGIC #2731494001

		Wilmington	Income LOGIC		Interfund		Ending
Contingency:	Opening balance:	Interest	Interest	Contributions	Transfers	Disbursements	Balance
October	8,743,574	-	37,442	-	200,000	-	8,981,016
November	8,981,016	-	35,848	-	150,000	-	9,166,864
December	9,166,864	-	36,645	-	150,000	-	9,353,509
		-	109,935	-	500,000	-	

DEBT SERVICE ACCOUNT-LOGIC #7731494002

		Wilmington	Income LOGIC		Interfund		Ending
Debt Svc-SIB:	Opening balance:	Interest	Interest	Contributions	Transfers	Disbursements	Balance
October	189	-	5	-	(194)	-	-
November	0	-	-	-	-	-	-
December	0	-	-	-	-	-	-
		-	5	-	(194)	-	

ROAD MAINTENANCE ACCOUNT-LOGIC #2731494002

		Wilmington	Income LOGIC		Interfund		Ending
Debt Svc-SIB:	Opening balance:	Interest	Interest	Contributions	Transfers	Disbursements	Balance
October	1,115,856	-	4,730	-	-	-	1,120,586
November	1,120,586	-	4,448	-	-	-	1,125,034
December	1,125,034	-	4,483	-	-	-	1,129,517
		-	13,661	-	-	-	

Wilmington Trust Investments Detail Activity
Quarter Ending December 31, 2024

HIDALGO CO RMA DISBURSEMENT ACCT #106912-006 & LOGIC #7731494008

Disbursement:		Income					Ending Balance
		Wilmington Interest	LOGIC Interest	Contributions	Interfund Transfers	Disbursements	
Opening balance:							
October	91,528,223	22,178	361,754	3,641,480	-	(2,056)	95,551,579
November	95,551,579	36,456	340,243	1,991,889	-	(2,050)	97,918,117
December	97,918,117	42,325	342,926	1,921,588	-	-	100,224,956
		100,959 *	1,044,923	7,554,957	-	(4,106)	

HCRMA SR LIEN 2022A REV BDS ACCT. #154037-000

DS Account:		Income					Ending Balance
		Wilmington Interest	LOGIC Interest	Contributions	Interfund Transfers	Disbursements	
Opening balance:							
October	1,704	42	-	-	-	-	1,746
November	1,746	7	-	-	-	-	1,753
December	1,753	7	-	-	-	(1,754)	6
		56	-	-	-	(1,754)	

HCRMA SR LIEN 2022A DS ACCT. #154037-001

DS Account:		Income					Ending Balance
		Wilmington Interest	LOGIC Interest	Contributions	Interfund Transfers	Disbursements	
Opening balance:							
October	2,340,394	8,578	-	-	-	-	2,348,972
November	2,348,972	9,032	-	-	-	-	2,358,004
December	2,358,004	8,406	-	-	-	(1,646,197)	720,213
		26,016	-	-	-	(1,646,197)	

HCRMA SR LIEN 2022A DSRF #154037-002 & LOGIC #7731494006

DSRF Account:		Income					Ending Balance
		Wilmington Interest	LOGIC Interest	Contributions	Interfund Transfers	Disbursements	
Opening balance:							
October	13,523,520	1	57,319	-	-	-	13,580,840
November	13,580,840	2	53,909	-	-	-	13,634,751
December	13,634,751	2	54,335	-	-	-	13,689,088
		5 *	165,563	-	-	-	

HCRMA JR LIEN 2022B DS ACCT #154038-001

DS Account:		Income					Ending Balance
		Wilmington Interest	LOGIC Interest	Contributions	Interfund Transfers	Disbursements	
Opening balance:							
October	545	2	-	-	-	-	547
November	547	2	-	-	-	-	549
December	549	2	-	-	-	-	551
		6	-	-	-	-	

HCRMA JR LIEN 2022B DSRF #154038-002 & LOGIC #7731494005

DSRF Account:		Income					Ending Balance
		Wilmington Interest	LOGIC Interest	Contributions	Interfund Transfers	Disbursements	
Opening balance:							
October	6,099,186	1	25,850	-	-	-	6,125,037
November	6,125,037	1	24,313	-	-	-	6,149,351
December	6,149,351	1	24,505	-	-	-	6,173,857
		3 *	74,668	-	-	-	

Wilmington Trust Investments Detail Activity
Quarter Ending December 31, 2024

HCRMA SR LIEN 2022A PROJECT FD #154037-006 & LOGIC #7731494009

Project Account:	Opening balance:	Wilmington	Income	Contributions	Interfund	Disbursements	Ending Balance
		Interest	LOGIC Interest		Transfers		
October	27,096,565	43,002	79,256	-	-	(4,010,698)	23,208,125
November	23,208,125	28,489	74,543	-	-	(412,758)	22,898,399
December	22,898,399	15,453	65,495	-	-	(9,928,150)	13,051,197
		<u>86,944</u> *	<u>219,294</u>	<u>-</u>	<u>-</u>	<u>(14,351,606)</u>	

HCRMA JR LIEN 2022B PROJECT FD #154038-003 & LOGIC #7731494010

Project Account:	Opening balance:	Wilmington	Income	Contributions	Interfund	Disbursements	Ending Balance
		Interest	LOGIC Interest		Transfers		
October	2	-	-	-	-	-	2
November	2	-	-	-	-	-	2
December	2	-	-	-	-	-	2
		<u>-</u> *	<u>-</u>	<u>-</u>	<u>-</u>	<u>-</u>	

HCRMA JR LIEN REV BDS 2022B #154038-000

Rev Bds 2022B	Opening balance:	Wilmington	Income	Contributions	Interfund	Disbursements	Ending Balance
		Interest	LOGIC Interest		Transfers		
October	1,057,969	3,878	-	-	-	-	1,061,847
November	1,061,847	4,083	-	-	-	-	1,065,930
December	1,065,930	3,800	-	-	-	(739,175)	330,555
		<u>11,761</u>	<u>-</u>	<u>-</u>	<u>-</u>	<u>(739,175)</u>	

HCRMA SR LIEN 2022A GENERAL FD #154037-003 & LOGIC #7731494007

General FD Account	Opening balance:	Wilmington	Income	Contributions	Interfund	Disbursements	Ending Balance
		Interest	LOGIC Interest		Transfers		
October	6,389,091	1	27,080	-	-	-	6,416,172
November	6,416,172	1	25,469	-	-	-	6,441,642
December	6,441,642	1	25,670	-	-	-	6,467,313
		<u>3</u> *	<u>78,219</u>	<u>-</u>	<u>-</u>	<u>-</u>	

*Note-Logic interest earned on HCRMA's funds held by Trustee (Wilmington Trust)

Item 3E

HIDALGO COUNTY REGIONAL MOBILITY AUTHORITY

AGENDA RECOMMENDATION FORM

BOARD OF DIRECTORS	<u> X </u>	AGENDA ITEM	<u> 3E </u>
PLANNING COMMITTEE	<u> </u>	DATE SUBMITTED	<u> 01/15/24 </u>
FINANCE COMMITTEE	<u> </u>	MEETING DATE	<u> 01/24/24 </u>
TECHNICAL COMMITTEE	<u> </u>		

1. Agenda Item: **RESOLUTION 2025-01 – ANNUAL REVIEW AND APPROVAL OF THE HIDALGO COUNTY REGIONAL MOBILITY AUTHORITY INVESTMENT POLICY**
2. Nature of Request: (Brief Overview) Attachments: X Yes No
Annual review and approval of the HCRMA Investment Policy as required by Public Fund Investment Act.
3. Policy Implication: Board Policy, Local Government Code, Texas Government Code, Texas Transportation Code, TxDOT Policy
4. Budgeted: Yes No X N/A
5. Staff Recommendation: **Motion to approve Resolution 2025-01 – Annual Review and Approval of the Hidalgo County Regional Mobility Authority Investment Policy, as presented.**
6. Program Manager's Recommendation: Approved Disapproved X None
7. Planning Committee's Recommendation: Approved Disapproved X None
8. Board Attorney's Recommendation: Approved Disapproved X None
9. Chief Auditor's Recommendation: Approved Disapproved X None
10. Chief Financial Officer's Recommendation: X Approved Disapproved None
11. Chief Development Engineers' Recommendation: Approved Disapproved X None
12. Chief Construction Engineer's Recommendation: Approved Disapproved X None
13. Executive Director's Recommendation: X Approved Disapproved None



Memorandum

To: Robert L. Lozano, Chairman
From: Pilar Rodriguez, PE, Executive Director
Date: January 15, 2025
Re: **Annual Review of Investment Policy Required by the Public Funds Investment Act and the HCRMA Investment Policy**

Background

The Public Funds Investment Act (PFIA) requires that a public entity perform an annual review of its investment policy and adopt a resolution stating that it has performed the review, noting any changes. The last review was done on January 23, 2024, with no changes made to the investment policy. This year, the HCRMA has reviewed the Investment Policy and has determined no changes are necessary.

Goal

The goal of the HCRMA Investment Policy is safety, liquidity and yield – in that order and in so doing comply with the PFIA, as it may change from time to time.

Options

The Board may opt to consider any change it deems appropriate.

Recommendation

Based on review by this office, approval of Resolution 2025-01 – Annual review and approval of the Investment Policy for the Hidalgo County Regional Mobility Authority, is recommended.

If you should have any questions or require additional information, please advise.

HIDALGO COUNTY REGIONAL MOBILITY AUTHORITY
BOARD RESOLUTION NO. 2025-01

RESOLUTION FOR THE ANNUAL REVIEW AND APPROVAL OF THE HIDALGO
COUNTY REGIONAL MOBILITY AUTHORITY INVESTMENT POLICY

THIS RESOLUTION is adopted this 24th day of January, 2025 by the Board of Director of the Hidalgo County Regional Mobility Authority.

WHEREAS, the Hidalgo County Regional Mobility Authority (the “Authority”), acting through its Board of Directors (the “Board”); is a regional mobility authority created pursuant to Chapter 370, Texas Transportation Code, as amended (the “Act”); and

WHEREAS, the Authority was created by Order of Hidalgo County (the “County”) dated October 26, 2004; Petition of the County dated April 21, 2005; and a Minute Order of the Texas Transportation Commission (the “Commission”) dated November 17, 2005, pursuant to provisions under the Act the Authority; and

WHEREAS, the Board of Directors of the Authority has been constituted in accordance with the Act; and

WHEREAS, the prudent and legally permissible management and investment of Authority funds is responsibility of the Board of Directors and its designees; and

WHEREAS, the Authority initially adopted the Investment Policy at a regularly scheduled meeting on April 10, 2008 and reviewed and revised the policy on November 23, 2010 and May 16, 2012; and

WHEREAS, on September 18, 2013, the Authority reviewed the Investment Policy as required by the Public Fund Investment Act annually; and

WHEREAS, on October 16, 2013, the Authority amended the Investment Policy to add Flexible Repurchase Agreements and Brokered Certificate of Deposit Programs as part of allowed investments; and

WHEREAS, on January 22, 2014, the Authority has determined it is necessary to exclude mortgage backed securities from the Investment Policy as authorized investments; and

WHEREAS, on January 27, 2015, the Authority reviewed the Investment Policy and determined that no changes to the Investment Policy were necessary; and

WHEREAS, on February 23, 2016, the Authority reviewed the Investment Policy and determined that no changes to the Investment Policy were necessary; and

WHEREAS, on January 24, 2017, the Authority reviewed the Investment Policy and determined that no changes to the Investment Policy were necessary; and

WHEREAS, on January 23, 2018, the Authority reviewed the Investment Policy and determined that no changes to the Investment Policy were necessary; and

WHEREAS, on January 22, 2019, the Authority reviewed the Investment Policy and determined that no changes to the Investment Policy were necessary; and

WHEREAS, on January 28, 2020, the Authority reviewed the Investment Policy and determined changes to the Investment Policy are necessary to reflect industry name changes and weighted average maturity (WAM) limitations; and

WHEREAS, on January 26, 2021, the Authority reviewed the Investment Policy and determined that no changes to the Investment Policy were necessary;

WHEREAS, on January 25, 2022, the Authority reviewed the Investment Policy and determined that no changes to the Investment Policy were necessary;

WHEREAS, on January 24, 2023, the Authority reviewed the Investment Policy and determined that changes to the Investment Policy were necessary to reflect PFIA requirements; and;

WHEREAS, on January 23, 2024, the Authority reviewed the Investment Policy and determined that no changes to the Investment Policy were necessary; and

WHEREAS, the Authority has reviewed the Investment Policy as required annually by the Public Fund Investment Act and has determined no changes to the Investment Policy are necessary.

NOW, THEREFORE, BE IT RESOLVED BY THE BOARD OF DIRECTOR OF THE HIDALGO COUNTY REGIONAL MOBILITY AUTHORITY THAT:

- Section 1. The recital clauses are incorporated in the text of this Resolution as if fully restated.
- Section 2. The Board approves the annual review of the Authority's Investment Policy with no changes, hereto attached as Exhibit A.

PASSED AND APPROVED AS TO BE EFFECTIVE IMMEDIATELY BY THE BOARD OF DIRECTORS OF THE HIDALGO COUNTY REGIONAL MOBILITY AUTHORITY AT A REGULAR MEETING, duly posted and noticed, on the 24th day of January, 2025, at which meeting a quorum was present.

Robert L. Lozano, Chairman

Attest:

Juan Carlos Del Ángel, Secretary/Treasurer

EXHIBIT A

HIDALGO COUNTY REGIONAL MOBILITY AUTHORITY
INVESTMENT POLICY

ADOPTED

MAY 16, 2012

AND

AMENDED

JANUARY 22, 2014

JANUARY 28, 2020

JANUARY 24, 2023



Investment Policy

I. Scope

This policy complies with the Texas Public Funds Investment Act and applies to the investment of short-term operating funds and proceeds from certain bond issues. Longer-term funds, including investments of employees' investment retirement funds, are covered by a separate policy.

Pooling of Funds Except for cash in certain restricted and special funds, Hidalgo County Regional Mobility Authority (RMA) will consolidate cash balances from all funds to maximize investment earnings. Investment income will be allocated to the various funds based on their respective participation and in accordance with generally accepted accounting principles.

II. General Objectives

The primary objectives, in priority order, of investment activities shall be safety, liquidity, and yield:

1. **Safety** Safety of principal is the foremost objective of the investment program. Investments shall be undertaken in a manner that seeks to ensure the preservation of capital in the overall portfolio. The objective will be to mitigate credit risk and interest rate risk.

a. **Credit Risk** Hidalgo County RMA will minimize credit risk, the risk of loss due to the failure of the security issuer or backer, by:

- Limiting investments to the safest types of securities and the highest credit quality investment counterparts
- Qualifying the financial institutions, broker/dealers, intermediaries, counterparties, investment agreement providers, and investment advisers with which Hidalgo County RMA will do business
- Diversifying the investment portfolio so that potential losses on individual securities will be minimized.

b. **Interest Rate Risk** Hidalgo County RMA will minimize the risk that the market value of securities in the portfolio will fall due to changes in general interest rates, by:

- Structuring the investment portfolio so that securities mature to meet cash requirements for ongoing operations, thereby avoiding the need to sell securities on the open market prior to maturity (matching cash flow requirement with investment cash flow)
- Investing operating funds primarily in short-term securities, money market mutual funds, or similar investment pools.

2. **Liquidity** The investment portfolio shall remain sufficiently liquid to meet all operating requirements that may be reasonably anticipated. This is accomplished by structuring the portfolio so that securities mature concurrent with cash needs to meet anticipated demands (static liquidity). Furthermore, since all possible cash demands cannot be anticipated, the portfolio should consist largely of securities with active secondary or resale markets (dynamic liquidity). A portion of the portfolio also may be placed in money market mutual funds or local government investment pools which offer same-day liquidity for short-term funds. Investment agreements that provide cash flow flexibility may also be used.
3. **Yield** The investment portfolio shall be designed with the objective of attaining a market rate of return throughout budgetary and economic cycles, taking into account the investment risk constraints and liquidity needs. Return on investment is of subordinated importance compared to the safety and liquidity objectives described above. The core of investments are limited to relatively low risk securities in anticipation of earning a fair return relative to the risk being assumed. Securities shall not be sold prior to maturity with the following exceptions:
 - A security with declining credit may be sold early to minimize loss of principal.
 - A security swap would improve the quality, yield, or target duration in the portfolio.
 - Liquidity needs of the portfolio require that the security be sold.

III. Standards of Care

1. **Prudence** The standard of prudence to be used by investment officials shall be the "prudent person" standard and shall be applied in the context of managing an overall portfolio. Investment officers acting in accordance with written procedures and this investment policy and exercising due diligence shall be relieved of personal responsibility for an individual security's credit risk or market price changes, provided deviations from expectations are reported in a timely fashion and the liquidity and the sale of securities are carried out in accordance with the terms of this policy.

Investments shall be made with judgment and care, under circumstances then prevailing, which persons of prudence, discretion and intelligence exercise in the management of their own affairs, not for speculation, but for investment, considering the probable safety of their capital as well as the probable income to be derived.

2. **Ethics and Conflicts of Interest** Officers and employees involved in the investment process shall refrain from personal business activity that could conflict with the proper execution and management of the investment program, or that could impair their ability to make impartial decisions. Employees and investment officials shall disclose any material interests in financial institutions with which they conduct business. They shall further disclose any personal financial/investment positions that could be related to the performance of the

investment portfolio. Employees and officers shall refrain from undertaking personal investment transactions with the same individual with whom business is conducted on behalf of Hidalgo County RMA.

3. **Delegation of Authority** Authority to manage the investment program is granted to a designated official as appointed by the Board, hereinafter referred to as "investment officer", and derived from the following: Texas Public Fund Investment Act. Responsibility for the operation of the investment program is hereby delegated to the investment officer, who shall act in accordance with established written procedures and internal controls for the operation of the investment program consistent with this investment policy. Procedures should include references to: safekeeping, delivery vs. payment, investment accounting, repurchase agreements, wire transfer agreements, and collateral/depository investment agreements. No person may engage in an investment transaction except as provided under the terms of this policy and the procedures established by the investment officer. The investment officer shall be responsible for all transactions undertaken and shall establish a system of controls to regulate the activities of subordinate officials.

IV. Financial Dealers and Institutions

1. **Authorized Financial Dealers and Institutions** A list will be maintained of financial institutions authorized to provide investment services. In addition, a list also will be maintained of approved security broker/dealers selected by creditworthiness (e.g., a minimum capital requirement of \$10,000,000 and at least five years of operation). These may include, but are not limited to, "primary" dealers or regional dealers that qualify under Securities and Exchange Commission (SEC) Rule 15C3-1 (uniform net capital rule).

All financial institutions and broker/dealers who desire to become qualified for investment transactions must supply the following as appropriate:

- Audited financial statements
- Proof of Financial Industry Regulatory Authority (FINRA) certification, as appropriate
- Proof of state registration, as appropriate
- Completed broker/dealer questionnaire, as appropriate
- Certification of having read and understood the Hidalgo County RMA investment policy.

An annual review of the financial condition and registration of qualified financial institutions and broker/dealers will be conducted by the investment officer.

From time to time, the investment officer may choose to invest in instruments offered by minority and community financial institutions. In such situations, a waiver to the criteria under Paragraph 1 may be granted. All terms and relationships will be fully disclosed prior to purchase and will be reported to the appropriate entity on a consistent basis and should be consistent with state or local law. These types of investment purchases should be approved by the appropriate legislative or governing body in advance.

2. **Investment Advisors** The Authority may retain the services of an investment advisory firm registered under the Investment Advisers Act of 1940 (15 U.S.C. Section 80b-1 et seq.) to assist in the review of the investment policy, cash

flow requirements, the formulation of investment strategies, the analysis and execution of security purchases, sales and deliveries, as well as attend investment meetings, provide monthly and quarterly reporting, security valuations, market updates, and to generally service the investment needs of the Authority. The investment advisor will also be responsible for performing broker/dealer financial due diligence on the Authority's behalf and provide a list of its authorized broker/dealers on an annual basis. The Authority, however, retains ultimate responsibility as fiduciary of its assets.

- V. **Internal Controls** The investment officer is responsible for establishing and maintaining an internal control structure designed to ensure that the assets of Hidalgo County RMA are protected from loss, theft, or misuse. The internal control structure shall be designed to provide reasonable assurance that these objectives are met. The concept of reasonable assurance recognizes that (1) the cost of a control should not exceed the benefits likely to be derived and 2) the valuation of costs and benefits requires estimates and judgments by management.

Accordingly, the investment officer shall establish a process for an annual independent review by an external auditor to assure compliance with policies and procedures. The internal controls shall address the following points:

1. Control of collusion
2. Separation of transaction authority from accounting and recordkeeping
3. Custodial safekeeping
4. Avoidance of physical delivery securities
5. Clear delegation of authority to subordinate staff members
6. Written confirmation of transactions for investments and wire transfers
7. Development of a wire transfer agreement with the lead bank and third-party custodian
8. All trades where applicable will be executed by **delivery vs. payment** (DVP) to ensure that securities are deposited in an eligible financial institution prior to the release of funds. Securities will be held by a third-party custodian as evidenced by safekeeping receipts.
9. At least three bids or offers must be solicited for all other transactions involving individual securities. The Authority's investment advisor is also required to solicit at least three bids or offers when transacting trades on the Authority's behalf. In situations where the exact security is not offered by other broker/dealers, offers on the closest comparable investment may be used to establish a fair market price for the security. In the case of a certificate of deposit purchase, at least two other offers should be solicited to provide a comparison.

- VI. **Investment Training** Investment officers and all personnel authorized to execute investment transactions, shall attend at least one investment training session, containing at least 10 hours of instruction within 12 months after taking office or assuming duties. After the first year, Investment Officers and designees shall receive at least eight (8) hours of investment training within a two-year period that begins on the first day of the fiscal year and consists of the two consecutive fiscal years after that date. Training sources include Hilltop Securities, Government Finance Officers Association (GFOA), Government Finance Officers Association of Texas (GFOAT), Government Treasurers Organization of Texas (GTOT), Texas Municipal League (TML), TexPool, and the University of North Texas. *Additional sources may be approved by the Board.*

- VII. **Suitable and Authorized Investments**

In accordance with authorizing Federal and State laws, the Trust Agreements, the Authority's depository contract, and appropriate approved collateral provisions, and in furtherance of the Investment Strategy Statement attached hereto, the Authority may utilize the following investments for the investment of the Authority's funds:

Obligations of or Guaranteed by Governmental Entities

- a) Obligations of the United States or its agencies and instrumentalities, excluding mortgage-backed securities.
- b) Direct obligations of the State of Texas or its agencies and Instrumentalities.
- c) Other obligations, the principal and interest of which are unconditionally guaranteed or insured by, or backed by the full faith and credit of, the State of Texas or the United States or their respective agencies and instrumentalities.
- d) Obligations of states, agencies, counties, cities, and other political subdivisions of any state rated as to investment quality by a nationally recognized investment rating firm not less than A or its equivalent.
- e) Certificates of Deposit and Share Certificates

A certificate of deposit, or share certificate meeting the requirements of the Act that are issued by or through a depository institution that either has its main office, or a branch in the State of Texas that is (1) guaranteed or insured by the Federal Deposit Insurance Corporation, or its successor or the National Credit Union Share Insurance Fund or its successor; (2) secured by obligations described in clauses (a)-(d) above, excluding mortgage-backed securities directly issued by a federal agency or instrumentality that have a market value of not less than the principal amount of the certificates and those mortgage-backed securities listed in Section 16.0; or (3) secured in any other manner and amount provided by law for deposits of the Authority.

In addition to Hidalgo County RMA to invest funds in certificates of deposit above, an investment in certificates of deposit made in accordance with the following conditions is an authorized investment under this policy:

1. The funds are invested by Hidalgo County RMA through: (1) a broker that has its main office or a branch office in the State of Texas and is selected from a list adopted by Hidalgo County RMA as required by Section IV(1) of this Investment Policy; or (2) a depository institution that has its main office or a branch office in the State of Texas and that is selected by the investing entity.
2. The broker or the depository institution selected by the investing entity under subparagraph (i) above arranges for the deposit of the funds in certificates of deposit in one or more federally insured depository institutions, wherever located, for the account of Hidalgo County RMA.
3. the full amount of the principal and accrued interest of each of the certificates of deposit is insured by the United States or an instrumentality of the United States; and
4. Hidalgo County RMA appoints the depository institution selected by Hidalgo County RMA under subparagraph (i) above, an entity described by Section 2257.041(d) of the Act, or a clearing broker-dealer registered with the Securities and Exchange Commission and operating pursuant to Securities and Exchange Commission Rule 15c3-3 (17 C.F.R. Section 240.15c3-3) as custodian for the investing entity with

respect to the certificates of deposit issued for the account of the investing entity.

f) Repurchase Agreements

A fully collateralized repurchase agreement that (1) has a defined termination date; (2) is secured by obligations described in clause (a) above; (3) requires the securities being purchased by the Authority to be pledged to the Authority, held in the Authority's name, and deposited at the time the investment is made with the Authority or with a third party selected and approved by the Authority; and (4) is placed through a primary government securities dealer, as defined by the Federal Reserve, or a financial institution doing business in the State of Texas. "Repurchase agreement" means a simultaneous agreement to buy, hold for a specified time, and sell back, at a future date, obligations described in clause (a) above, at a market value at the time the funds are disbursed of not less than the principal amount of the funds disbursed. The term includes a direct security repurchase agreement and reverse security repurchase agreement.

Notwithstanding any other law, the term of any reverse security repurchase agreement may not exceed 90 days after the date the reverse security repurchase agreement is delivered. Money received by the Authority under the terms of a reverse security repurchase agreement shall be used to acquire additional authorized investments, but the term of authorized investments acquired must mature not later than the expiration date stated in the reverse security repurchase agreement. The Authority requires the execution of a Master Repurchase Agreement in substantially the form as may be prescribed by The Securities Industry and Financial Markets Association (SIFMA).

g) Banker's Acceptance

A Bankers' acceptance that (1) has a stated maturity of 180 days or fewer from the date of its issuance; (2) will be, in accordance with its terms, liquidated in full at maturity; (3) is eligible for collateral for borrowing from a Federal Reserve Bank; and (4) is accepted by a bank organized and existing under the laws of the United States or any state, if the short-term obligations of the bank or of a bank holding company of which the bank is the largest subsidiary, are rated not less than A-1 or P-1 or an equivalent rating of at least one nationally recognized credit rating agency. Such transactions shall not exceed 5% of the total Authority's Investment Portfolio, and all such endorsing banks shall come only from a list of entities that are constantly monitored as to financial solvency.

h) Commercial Paper

Commercial Paper that (1) has a stated maturity of 270 days or fewer from the date of its issuance; and (2) is rated not less than A-1 or P-1 or an equivalent rating by at least (A) two nationally recognized credit rating agencies or (B) one nationally recognized credit rating agency and is fully secured by an irrevocable letter of credit issued by a bank organized and existing under the laws of the United States or any State. Such transactions shall not exceed 25% of the total Authority's Investment Portfolio with no more than 5% in any one issuer or its subsidiaries.

i) Mutual Funds

A no-load money market mutual fund that (1) is registered with and regulated by the Securities and Exchange Commission; (2) provides the Authority with a prospectus and other information required by the Securities Exchange Act of 1934 or the Investment Company Act of 1940; (3) has a dollar-weighted average stated maturity of 60 days or fewer; and (4) includes in its investment objectives the maintenance of a stable net asset value of \$1 for each share.

A no-load mutual fund that (1) is registered with the Securities and Exchange Commission;

(2) has an average weighted maturity of less than two years; (3) is invested exclusively in obligations described in this Section 14.0; (4) is continuously rated as to investment quality by at least one nationally recognized investment rating firm of not less than AAA or its equivalent; and (5) conforms to the requirements set forth in Sections 2256.016(b) and (c) of the Act, relating to the eligibility of investment pools to receive and invest funds of investing entities.

The Authority is not authorized to (1) invest in the aggregate more than 15% of its monthly average fund balance, excluding bond proceeds and reserves and other funds held for debt service, in mutual funds described in the immediately preceding paragraph; (2) invest any portion of bond proceeds, reserves and funds held for debt service, in mutual funds described in the immediately preceding paragraph; or (3) invest its funds or funds under its control, including bond proceeds and reserves and other funds held for debt service, in any one mutual fund described in either paragraph above in an amount that exceeds 10% of the total assets of the mutual fund. In addition, the total assets invested in any single mutual fund may not exceed 5% of the Authority's average fund balance, excluding bond proceeds and reserves and other funds held for debt service.

With regard to Money Market Mutual Funds, the Authority is not authorized to invest its funds in any one money market mutual fund in an amount that exceeds 5% of the total assets of the money market mutual fund.

j) Investment Pools

The Authority may invest its funds and funds under its control through an eligible investment pool if the Board of Directors by official action authorizes investment in the particular pool. An investment pool shall invest the funds it receives from entities in authorized investments permitted by the Act. The Authority may invest its funds through an eligible investment pool if the pool provides to the Investment Officer an offering circular or other similar disclosure document that contains, at a minimum, the following information:

- 1) The types of investments in which money is allowed to be invested.
- 2) The maximum average dollar-weighted maturity allowed, based on the stated maturity date, of the pool.
- 3) The maximum stated maturity date any investment security within the portfolio has.
- 4) The objectives of the pool.
- 5) The size of the pool.
- 6) The names of the members of the advisory board of the pool and the dates their terms expire.
- 7) The custodian bank that will safe keep the pool's assets.
- 8) Whether the intent of the pool is to maintain a net asset value of \$1 and the risk of market price fluctuation.
- 9) Whether the only source of payment is the assets of the pool at market value or whether there is a secondary source of payment, such as insurance or guarantees, and a description of the secondary source of payment.
- 10) The name and address of the independent auditor of the pool.
- 11) The requirements to be satisfied for an entity to deposit funds in and withdraw funds from the pool and any deadlines or other operating policies required for the entity to invest funds in and withdraw funds from the pool.
- 12) The performance history of the pool, including yield, average dollar-weighted maturities, and expense ratios.

To maintain eligibility to receive funds from and invest funds on behalf of the Authority, an investment pool must be continuously rated no lower than AAA, AAA-m, and AAA-f or at an equivalent rating of at least one nationally recognized rating service and must furnish to the Investment Officer: (i) Investment transaction confirmations and (ii) A monthly report that contains, at a minimum, the following information:

- 1) The types and percentage breakdown of securities in which the pool has invested.
- 2) The current average dollar-weighted maturity, based on the stated maturity date of the pool.
- 3) The current percentage of the pool's portfolio in investments that have stated maturities of more than one year.
- 4) The book value versus the market value of the pool's portfolio, using amortized cost valuation.
- 5) The size of the pool.
- 6) The number of participants in the pool.
- 7) The custodian bank that is safekeeping the assets of the pool.
- 8) A listing of daily transaction activity of the Authority in the pool.
- 9) The yield and expense ratio of the pool.
- 10) The portfolio managers of the pool.
- 11) Any changes or addenda to the offering circular.

The Authority by contract may delegate to an investment pool the Authority to hold legal title as custodian of investments purchased with its local funds.

For purposes of investment in an investment pool, "yield" shall be calculated in accordance with regulations governing the registration of open-end management investment companies under the Investment Company Act of 1940, as promulgated from time to time by the federal Securities and Exchange Commission.

To be eligible to receive funds from and invest funds on behalf of the Authority, a public funds investment pool created to function as a money market mutual fund must mark its portfolio to market daily, and, to the extent reasonably possible, stabilize at a \$1 net asset value. If the ratio of the market value of the portfolio divided by the book value of the portfolio is less than 0.995 or greater than 1.005, portfolio holdings shall be sold as necessary to maintain the ratio between 0.995 and 1.005.

To be eligible to receive funds from and invest funds on behalf of the Authority, a public funds investment pool must have an advisory board composed:

- 1) Equally of participants in the pool and other persons who do not have a business relationship with the pool and are qualified to advise the pool, for a public funds investment pool created under Chapter 791, Texas Government Code, and managed by a state agency; or
- 2) Of participants in the pool and other persons who do not have a business relationship with the pool and are qualified to advise the pool, for other investment pools.

k) Guaranteed Investment Contracts

A Guaranteed Investment Contract is an authorized investment for bond proceeds if the guaranteed investment contract:

- 1) Has a defined termination date;
- 2) Is secured by obligations described by clause (a) above, but excluding those obligations described by Section 16.0 herein in an amount at least equal to the amount of bond proceeds invested under the contract;
- 3) Is pledged to the Authority and deposited with the Authority or with a third party selected and approved by the Authority; and
- 4) Meets the following requirements:
 - a) The Board of Directors of the Authority must specifically authorize guaranteed investment contracts as an eligible investment in the order, ordinance, or resolution authorizing the issuance of bonds;
 - b) The Authority must receive bids from at least three separate providers with no material financial interest in the bonds from which proceeds were received;
 - c) The Authority must purchase the highest yielding guaranteed investment contract for which a qualifying bid is received;
 - d) The price of the guaranteed investment contract must take into account the reasonably expected drawdown schedule for the bond proceeds to be reinvested; and

The provider must certify the administrative costs reasonably expected to be paid to third parties in connection with the guaranteed investment contract.

The following are not authorized investments under this Section V:

1. Obligations whose payment represents the coupon payments on the outstanding principal balance of the underlying mortgage-backed security collateral and pays no principal;
2. Obligations whose payment represents the principal stream of cash flow from the underlying mortgage-backed security collateral and bears no interest;
3. Collateralized mortgage obligations that have a stated final maturity date of greater than 10 years; and.
4. Collateralized mortgage obligations the interest rate of which is determined by an index that adjusts opposite to the changes in a market index.

VIII. Investment Parameters

- a. **Diversification** The investments shall be diversified by:
 - i. limiting investments to avoid over concentration in securities from a specific issuer or business sector (excluding U.S. Treasury securities),
 - ii. limiting investment in securities that have higher credit risks,
 - iii. investing in securities with varying maturities, and
 - iv. continuously investing a portion of the portfolio in readily available funds such as local government investment pools (LGIPs), money market funds or repurchase agreements to ensure that appropriate liquidity is maintained in order to meet ongoing obligations.

- b. **Maximum Maturities** To the extent possible, Hidalgo County RMA shall attempt to match its investments with anticipated cash flow requirements. Unless matched to a specific cash flow, the Hidalgo County RMA will not directly invest in securities maturing more than five (5) years from the date of purchase or in accordance with state and local statutes and ordinances. Hidalgo County RMA shall adopt weighted average maturity limitations (which often range from 60 days to 3 years), consistent with the investment objectives.

Reserve funds and other funds with longer-term investment horizons may be invested in securities exceeding five (5) years if the maturity of such investments are made to coincide as nearly as practicable with the expected use of funds. The intent to invest in securities with longer maturities shall be disclosed in writing to the legislative body.

Because of inherent difficulties in accurately forecasting cash flow requirements, a portion of the portfolio should be continuously invested in readily available funds such as LGIPs, money market funds, or overnight repurchase agreements to ensure that appropriate liquidity is maintained to meet ongoing obligations.

IX. Reporting

- a. **Methods** The investment officer shall prepare an investment report at least quarterly, including a management summary that provides an analysis of the status of the current investment portfolio and transactions made over the last quarter. This management summary will be prepared in a manner which will allow Hidalgo County RMA to ascertain whether investment activities during the reporting period have conformed to the investment policy. The report should be provided to the investment officer, the legislative body, and any pool participants. The report will include the following:
- i. Listing of individual securities held at the end of the reporting period.
 - ii. Realized and unrealized gains or losses resulting from appreciation or depreciation by listing the cost and market value of securities over one-year duration that are not intended to be held until maturity (in accordance with Governmental Accounting Standards Board (GASB) requirements).
 - iii. Average weighted yield to maturity of portfolio on investments as compared to applicable benchmarks.
 - iv. Listing of investment by maturity date.
 - v. Percentage of the total portfolio which each type of investment represents.
- b. **Performance Standards** The investment portfolio will be managed in accordance with the parameters specified within this policy. The portfolio should obtain a market average rate of return during a market/economic environment of stable interest rates.
- c. **Marking to Market** The market value of the portfolio shall be calculated at least quarterly and a statement of the market value of the portfolio shall be issued at least quarterly. In defining market value, considerations should be given to the GASB Statement 31 pronouncement.

X. Policy Considerations

- a. **Existing Securities Exemption** The Authority is not required to liquidate investments that were authorized investments at the time of purchase. (Tex.

Gov't. Code Sec. 2256.017)

- b. **Downgrade Provision** The Authority shall take all prudent measures consistent with this Policy to liquidate an investment that no longer meets the required minimum rating standards, as per the Tex. Gov't. Code Sec. 2256.021.
- c. **Hold to Maturity** It is the Authority's intended policy to hold all investments to maturity. However, securities may be sold early if necessary to provide liquidity or if there is a financial benefit to the Authority.
- d. **Amendments** This policy shall be reviewed on an annual basis. Any changes must be approved by the investment officer and any other appropriate authority, as well as the individual(s) charged with maintaining internal controls.

XI. **Investment Strategy for Bond Funds** The strategy and objectives for the investment of bond proceeds shall be to:

- a. Ensure safety of principal by investing in only high quality securities for which a strong secondary market exists.
- b. Ensure that anticipated cash flow needs are matched with adequate investment liquidity.
- c. Limit market and credit risk through diversification.
- d. Attain the best feasible yield commensurate with the objectives and restrictions set forth in this Policy and the bond ordinance by actively managing the portfolio to meet or exceed the bond yield.

XII. **List of Attachments**

The following documents, as applicable, are (or may be in the future) attached to this policy:

- Listing of authorized personnel,
- Repurchase agreements and tri-party agreements,
- Listing of authorized broker/dealers and financial institutions,
- Credit studies for securities purchased and financial institutions used,
- Safekeeping agreements,
- Wire transfer agreements,
- Sample investment reports, and
- Methodology for calculating rate of return.

Item 3F

HIDALGO COUNTY REGIONAL MOBILITY AUTHORITY

AGENDA RECOMMENDATION FORM

BOARD OF DIRECTORS
PLANNING COMMITTEE
FINANCE COMMITTEE
TECHNICAL COMMITTEE

 X

AGENDA ITEM
DATE SUBMITTED
MEETING DATE

 3F
 1/15/2025
 1/24/2025

1. Agenda Item: **RESOLUTION 2025-07 – CONSIDERATION AND APPROVAL OF REVISED CHANGE ORDER NUMBER 14 TO THAT CERTAIN CONTRACT WITH PULICE CONSTRUCTION, INC. FOR THE 365 TOLLWAY PROJECT.**
2. Nature of Request: (Brief Overview) Attachments: X Yes No
Approval of Resolution 2025-07 for Revised CO No. 14.
3. Policy Implication: Board Policy, Local Government Code, Texas Government Code, Texas Transportation Code, TxDOT Policy
4. Budgeted: Yes No X N/A
5. Staff Recommendation: **Motion to approve Resolution 2025-07 – Consideration and Approval of Revised Change Order Number 14 to that certain contract with Pulice Construction, Inc. for the 365 Tollway Project, as presented.**
6. Program Manager's Recommendation: Approved Disapproved X None
7. Planning Committee's Recommendation: Approved Disapproved X None
8. Board Attorney's Recommendation: Approved Disapproved X None
9. Chief Auditor's Recommendation: Approved Disapproved X None
10. Chief Financial Officer's Recommendation: Approved Disapproved X None
10. Chief Development Engineer's Recommendation: Approved Disapproved X None
11. Chief Construction Engineer's Recommendation: X Approved Disapproved None
12. Executive Director's Recommendation: X Approved Disapproved None



Memorandum

To: Pilar Rodriguez, PE, Executive Director

From: Ramon Navarro IV, P.E., Chief Construction Engineer

Date: January 17, 2025

Re: **2025-07: CONSIDERATION AND APPROVAL OF REVISED CHANGE ORDERS NUMBER 14 TO THAT CERTAIN CONSTRUCTION CONTRACT WITH PULICE CONSTRUCTION, INC. FOR THE 365 TOLLWAY.**

GOAL

We are informing Board of final negotiated price of Revised CO#14.

BACKGROUND

HCRMA, HDR, Pulice Construction Inc. and HCID#2 have been negotiating various items since the implementation of the project. The HCRMA and HCID#2 have agreements in-place requiring concurrences to current plans, specifications, and implemented changes. HCID#2 is demanding immediate cost, scheduling impactive changes throughout project. After proposing various alternatives HCID#2 remains steadfast on implementing desired amendments to plans, specifications, and current agreements at no cost to them.

Board approved Resolution 2024-52 authorizing Change Order #14 at maximum cost not to exceed \$492,363.86

Change Order No. 14

The scope of this change order remains in full effect. PCI has provided proposal for a savings of \$42,927.50 and requested a time extension as it will have a significant impact on a critical section of the project.

RECOMMENDATION

HCRMA \ HDR staff recommend Board's approval and acceptance of CO#14, Resolution 2025-07 authorizing Change Order #14 to that certain construction contract with Pulice Construction Inc. for the 365 Tollway Project. in the amount of \$449,436.36, assurance of compliance with the standard specifications included within the contract with no additional time. All is dependent upon acceptance from FHWA/TxDOT and HCRMA Legal's review of final form. Change Order establishes no State nor Federal monetary participation. Attached exhibits provide current assessment and breakdown.

HIDALGO COUNTY REGIONAL MOBILITY AUTHORITY
BOARD RESOLUTION No. 2025-07

**CONSIDERATION AND APPROVAL OF THE REVISED CHANGE ORDER NUMBER 14
TO THAT CERTAIN CONTRACT WITH PULICE CONSTRUCTION, INC. FOR THE 365
TOLLWAY**

THIS RESOLUTION is adopted this 24th day of January, 2025 by the Board of Directors of the Hidalgo County Regional Mobility Authority at a regular meeting.

WHEREAS, the Hidalgo County Regional Mobility Authority (the "Authority"), acting through its Board of Directors (the "Board"), is a regional mobility authority created pursuant to Chapter 370, Texas Transportation Code, as amended (the "Act"); and

WHEREAS, on November 17, 2005, the Texas Transportation Commission (the "Commission") created the Authority pursuant to (i) the Act; (ii) Title 43, Texas Administrative Code; (iii) a petition of the Hidalgo County Commissioners Court (the "County"); and (iv) findings by the Commission that the creation of the Authority would result in certain direct benefits to the State of Texas (the "State"), local governments, and the traveling public and would improve the State's transportation system; and

WHEREAS, the Act allows the Authority to construct transportation projects within the County, including the 365 Tollway Project (the "Project"); and

WHEREAS, the Texas Department of Transportation approved the Project's final design, contract letting and award procedures, and form of construction contract, including a post-award value engineering change proposal process; and

WHEREAS, on August 8, 2021, August 11, 2021, August 15, 2021, August 18, 2021, August 22, 2021, and August 25, 2021 the Authority published a solicitation for Bid #2021-00 I for the 365 Tollway Project (Segments I and 2), Contract No. 0921-02-368 for the Project; and

WHEREAS, bids for the Project were submitted electronically via Civcast Bid System; the first bid was received at 2:27 p.m. on October 13, 2021, and the last bid was received at 2:51 pm on October 13, 2021; and

WHEREAS, at 3:05 p.m. on October 13, 2021, the Authority opened and read into the record three (3) formal sealed, electronic bids for the Project from: (i) Pulice Construction, Inc., (ii) Webber, LLC., and Anderson Columbia Co., Inc., in amounts ranging from \$295,932,420.25 to \$340,409,415.64 for construction of the Project; and

WHEREAS, Pulice Construction, Inc. provided the lowest Project bid in the amount of \$295,932,420.25; and

WHEREAS, on October 19, 2021, the Board approved Resolution 2021-46 conditionally awarding the construction contract of the 365 Toll Project to the lowest, responsive, and responsible bidder Pulice Construction, Inc. in the amount of \$295,932,420.25; and

WHEREAS, on November 10, 2021, the Board approved Resolution 2021-54, approving Change Order No. I to the construction contract with Pulice Construction Inc.; provided, there was no issuance of an NTP to Pulice Construction Inc. until a Value Engineering Proposal ("VECP") was approved by the Board of Directors and TxDOT to establish the financeability of the Project. If, after the VECP process, the Project scope was not deemed feasible and additional revenue was not available to fully fund the Project, no NTP would be issued and the Authority would have terminated the contract without incurring any additional costs other than those approved under Change Order No. I. The VECP is structured to identify concepts and function oriented techniques to improve the value of the Project, or any component thereof, including improvements to schedule, operating costs, constructability, and risk mitigation; without altering scope or environmental justices; and

WHEREAS, on December 20, 2021, the Authority approved Resolution 2021-78, authorizing the VECP proposals outlined in Exhibit A to Change Order No. 2 and the revising the contract amount to \$281,723,797.95; and, the Authority also authorized a contingency fund for the Project in the amount of \$5,000,000, and established a total overall Project cost of \$286,723,797.95;

WHEREAS, the Authority and the Board amended the Contract through Amendment No. I to capture the risk allocations and make other Contract clarifications in support of VECP; and

WHEREAS on April 19, 2022, the Authority approved Resolution 2022-36, consideration and approval of Change Order No 3 to that certain construction contract with Pulice Construction Inc. for the 365 Tollway Project, in order to further establish the VECP concepts and supporting details as provided in Exhibit A hereto;

WHEREAS on November 4, 2021, Pulice Construction Inc, expressed concern on Engineer of Record's scour reports and calculated foundation loads. Upon discussions, data collection and research, November 16, 2022, the HCRMA requested HDR[GEC] provide investigative recommendation.

WHEREAS on December 7, 2022, HOR provided review and supporting documentation in upsizing particular bent foundations at PCI proposal and costs;

WHEREAS, on January 24, 2023, the Authority approved Resolution 2023- 05, Change Order No 4 to the construction contract with Pulice Construction Inc. for the net cost increase of \$171,516.59, by removal of 1,524LF of Drill Shaft (42") and introducing 48" drill shafts to incorporate detailed, finalized quantities and unit costs; and establishes State/Federal participation on modified unit costs, assuring compliance with the standard specifications included within the contract; and,

WHEREAS, on July 25, 2023, the HCRMA Board approved Resolution 2023-30, Change Order No 5 to that certain construction contract with Pulice Construction Inc. for the 365 Tollway Project, Change Order No. 5 proves a net cost increase of \$4,325,130.78 to be fully paid by HCRMA [Owner]. Establishing a new revised contract price of \$286,220,445.32 with no additional time; and, incorporates detailed, finalized quantities and unit costs; and establishes State/Federal participation on modified unit costs, assuring compliance with the standard specifications included within the contract;

WHEREAS, on July 9, 2024, the Board's approved Resolution 2024-27, for authorization of Change Orders number six (6) through thirteen (13) to that certain construction contract with Pulice Construction Inc. for the 365 Tollway Project. The sum of Change Orders proves a net cost increase of \$832,561.77 to be fully paid by HCRMA [Owner]. Establishing a new revised contract price of \$287,053,007.09 with no additional time; and, incorporates detailed, finalized quantities and unit costs; and establishes State/Federal participation on modified unit costs, assuring compliance with the standard specifications included within the contract. Attached exhibits provide current assessment and breakdown; and

WHEREAS, on December 17, 2024 the Authority approved Resolution 2024-52, for authorization of Change Orders number fourteen (14) to that certain construction contract with Pulice Construction Inc. for the 365 Tollway Project. The sum of Change Orders proves a maximum cost increase of \$492,363.86 to be fully paid by HCRMA [Owner]. Establishing a new revised contract price of \$287,335,648.95 with no additional time; and, incorporates detailed, finalized quantities and unit costs; and establishes no State/Federal participation on modified unit costs, assuring compliance with the standard specifications included within the contract. Attached exhibits provide current assessment and breakdown; and

WHEREAS, the Authority finds it necessary to approve Resolution 2025-07, revising Change Order fourteen (14) approved on December 17, 2024 by Resolution 2024 -52 to that certain construction contract with Pulice Construction Inc. for the 365 Tollway Project. The revised amount is a deduction of \$42,927.50 from \$492,363.86 to \$449,436.36 to be fully paid by HCRMA [Owner]. The deduction establishes a revised contract price of \$287,292,721.45 with no additional time; and, incorporates detailed, finalized quantities and unit costs; and establishes no State/Federal participation on modified unit costs, assuring compliance with the standard specifications included within the contract. Attached exhibits provide current assessment and breakdown.

NOW THEREFORE BE IT RESOLVED BY THE BOARD OF DIRECTORS OF THE HIDALGO COUNTY REGIONAL MOBILITY AUTHORITY THAT:

Section 1. The recital clauses are incorporated in the text of this Resolution as if fully restated.

Section 2. The Board hereby approves revised Change Order No. 14 to the construction contract with Pulice Construction Inc. for \$449,436.36.

Section 3. Construction of the 365 Toll Project in substantially final form as hereto detailed, revising and establishing a unit bid construction amount of 265,931,713.90, and an overall contract amount of \$287,292,721.45.

Section 4. Section 5. Upon final acceptance from FHWA/TxDOT and HCRMA Legal's review of final form; The Board hereby authorizes the Executive Director to execute the specific Change Order.

PASSED AND APPROVED AS TO BE EFFECTIVE IMMEDIATELY BY THE BOARD OF DIRECTORS AND THE HIDALGO COUNTY REGIONAL MOBILITY AUTHORITY AT A REGULAR MEETING duly posted and noticed, on the 24th day of January 2025, at which meeting a quorum was present.

Robert L. Lozano, Chairman

Juan Carlos Del Angel, Secretary/Treasurer

CONSTRUCTION CONTRACT CHANGE ORDER NUMBER: Revised CO141. CONTRACTOR: Pulice Construction, Inc.2. Change Order Work Limits: Sta. 876+20 to Sta. _____3. Type of Change (on federal-aid non-exempt projects): Minor (Major/Minor)

4. Describe the change and the reason for the change order. When necessary, include exceptions to this agreement.

Change order 14 would direct Pulice to remove current pre-casted junction boxes/manholes and replace with monolithic cast-in-place structures as per request of Hidalgo County Irrigation District No. 2.

CCSJ: 0921-02-368Project: DMO2013(420)Highway: 365 TollwayCounty: HidalgoDistrict: PharrContract Number: 0921-02-3685. New or revised plan sheet(s) are attached and numbered: attachments

Each signatory hereby warrants that each has the authority to execute this Change Order.

By signing this change order, the contractor agrees to waive any and all claims for additional compensation due to any and all other expenses; additional changes for time, overhead and profit; or loss of compensation as a result of this change. Further, the contractor agrees that this agreement is made in accordance with Item 4 and the Contract. Exceptions should be noted in the response for #5 above.

THE CONTRACTOR _____ Date _____

By _____

Typed/Printed Name _____

Typed/Printed Title _____

The following information must be providedTime Ext. #: _____ Days added on this C.O.: 0Amt. added by this change order: \$449,436.36**For TxDOT use only:**

Days participating: _____

Amount participating: _____

Signature _____ Date _____

Name/Title _____

RECOMMENDED FOR EXECUTION:

Ramon Navarro, IV, Chief Construction Engineer

Name/Title _____ Date _____

Name/Title _____ Date _____

☐ APPROVED☐ REQUEST APPROVAL

Pilar Rodriguez, Executive Director

Name/Title _____ Date _____

Name/Title _____ Date _____

☐ APPROVED☐ REQUEST APPROVAL

Name/Title _____ Date _____

Name/Title _____ Date _____

☐ APPROVED☐ REQUEST APPROVAL

Name/Title _____ Date _____

Name/Title _____ Date _____

☐ APPROVED

Engineer's Seal:

CHANGE ORDER PROPOSAL

January 17, 2025

DCN: Pulice-HCRMA-089

TO: Ramon Navarro, P.E., C.F.M.
Chief Construction Engineer
HC Regional Mobility Authority
203 W. Newcombe Avenue
Pharr, TX 78577

FROM: Rafael Carmona
Project Manager
Pulice Construction Inc.
7902 S. 10TH Street,
McAllen, TX 78503

RE: 365 Toll Project (Seg 1 & 2) – CIP Junction Boxes for Irrigation (Revised)**SCOPE:** The scope of this change is to adjust items related to the Junction Boxes for Irrigation.**CHANGE JUSTIFICATION:** As requested by HCRMA this is to replace the approved precast junction boxes for irrigation with cast-in-place structures and to dispose the existing precast material.**SPECIFICATIONS, PLANS OR OTHER DOCUMENTS REQUIRED:****CHANGE TO CONTRACT PRICE:** We're requesting additional compensation for these changes as detailed below.

Item	Description	Unit	Unit Price	Original Qty	CO Qty	Revised Qty	CO Amount
0465-6011	JCTBOX(COMPL)(PJB)(6FTX6FT)	EA	\$ 10,118.07	2	-2	0	\$ (20,236.14)
0465-6012	JCTBOX(COMPL)(PJB)(8FTX8FT)	EA	\$ 19,000.00	5	-5	0	\$ (95,000.00)
0465-9001	JCTBOX(CIP)(20FT-25FT)(8FTX8FT)	EA	\$ 99,942.79	0	2	2	\$ 199,885.58
0465-9002	JCTBOX(CIP)(10FT-15FT)(8FTX8FT)	EA	\$ 53,509.96	0	3	3	\$ 160,529.88
0465-9003	JCTBOX(CIP)(10FT-15FT)(6FTX6FT)	EA	\$ 51,360.34	0	1	1	\$ 51,360.34
0465-9004	JCTBOX(CIP)(5FT-10FT)(6FTX6FT)	EA	\$ 40,052.95	0	1	1	\$ 40,052.95
0465-9005	JCTBOX(Material/Partial Installation)	EA	\$ 12,807.29	0	6	6	\$ 76,843.75
0465-9006	JCTBOX(Material Remove/Disposal)	EA	\$ 6,000.00	0	6	6	\$ 36,000.00

\$ 449,436.36

CHANGE TO CONTRACT TIME: This change order will require a time extension as it will have a significant impact on a critical section of the project. Pulice will evaluate according to HCRMA's specifications guidelines and will submit to the HCRMA a request for added time once it is known.

If you have any questions or need additional information, please contact me at (346) 324-0781.

Sincerely,


Rafael Carmona
Project Manager
Pulice Construction Inc.



Memorandum

To: PilarRodriguez, PE, Executive Director

From: Ramon Navarro IV, P.E., Chief Construction Engineer

Date: Dec. 11, 2024

Re: **2024-52: CONSIDERATION AND APPROVAL OF CHANGE ORDERS
NUMBER 14 TO THAT CERTAIN CONSTRUCTION CONTRACT WITH PULICE
CONSTRUCTION, INC. FOR THE 365 TOLLWAY.**

GOAL

We are seeking Boards authorization to execute CO#14. This would direct Pulice to remove current pre-casted junction boxes /manholes and replace with monolithic cast-in-place structures.

BACKGROUND

HCRMA, HDR, Pulice Construction Inc. and HCID#2 have been negotiating various items since the implementation of the project. The HCRMA and HCID#2 have agreements in-place requiring concurrences to current plans, specifications, and implemented changes. HCID#2 is demanding immediate cost, scheduling impactive changes throughout project. After proposing various alternatives HCID#2 remains steadfast on implementing desired amendments to plans, specifications, and current agreements at no cost to them.

Change Order No. 14

The scope of this change is to remove and replace the approved precast junction boxes for cast-in-place irrigation structures and to dispose the existing precast material. PCI has provided proposal for \$492,363.86 and requested a time extension as it will have a significant impact on a critical section of the project.

Item	Description	Unit	Unit Price	Original Qty	CO Qty	Revised Qty	CO Amount
0465-6011	JCTBOX(COMPL)(PJB)(6FTX6FT)	EA	\$ 10,118.07	2	-2	0	\$ (20,236.14)
0465-6012	JCTBOX(COMPL)(PJB)(8FTX8FT)	EA	\$ 19,000.00	5	-5	0	\$ (95,000.00)
	JCTBOX(CIP)	EA	\$ 66,000.00	0	7	7	\$ 462,000.00
	JCTBOX(Material/Partial Installation)	EA	\$ 13,300.00	0	7	7	\$ 93,100.00
	JCTBOX(Removal/Disposal)	EA	\$ 7,500.00	0	7	7	\$ 52,500.00

\$ 492,363.86

HCRMA staff and HDR recommend Board authorize the HCRMA Executive Director to execute the specifics on Change Order#14 final approval. Staff is currently negotiating particulars and anticipate a lower cost, assurance of compliance with the standard specifications included within the contract with no additional time. All is dependent upon acceptance from FHWA/TxDOT and HCRMA Legal's review of final form. Change Order establishes no State nor Federal monetary participation. Attached exhibits provide current assessment and breakdown.

RECOMMENDATION:

HCRMA staff and HDR recommend approval of Resolution 2024-52 authorizing Change Order #14 to that certain construction contract with Pulice Construction Inc. for the 365 Tollway Project. The sum of Change Order proves a maximum cost increase of \$492,363.86 to be fully paid by HCRMA, no State/Federal participation on costs; establishing a new revised contract price of \$287,053,007.09 with no additional time.

HIDALGO COUNTY REGIONAL MOBILITY AUTHORITY

BOARD RESOLUTION No. 2024-52

CONSIDERATION AND APPROVAL OF CHANGE ORDER NUMBER 14 TO THAT CERTAIN CONTRACT WITH PULICE CONSTRUCTION, INC. FOR THE 365 TOLLWAY.

THIS RESOLUTION is adopted this 17th day of December, 2024 by the Board of Directors of the Hidalgo County Regional Mobility Authority at a regular meeting.

WHEREAS, the Hidalgo County Regional Mobility Authority (the "Authority"), acting through its Board of Directors (the "Board"), is a regional mobility authority created pursuant to Chapter 370, Texas Transportation Code, as amended (the "Act"); and

WHEREAS, on November 17, 2005, the Texas Transportation Commission (the "Commission") created the Authority pursuant to (i) the Act; (ii) Title 43, Texas Administrative Code; (iii) a petition of the Hidalgo County Commissioners Court (the "County"); and (iv) findings by the Commission that the creation of the Authority would result in certain direct benefits to the State of Texas (the "State"), local governments, and the traveling public and would improve the State's transportation system; and

WHEREAS, the Act allows the Authority to construct transportation projects within the County, including the 365 Tollway Project (the "Project"); and

WHEREAS, the Texas Department of Transportation approved the Project's final design, contract letting and award procedures, and form of construction contract, including a post-award value engineering change proposal process; and

WHEREAS, on August 8, 2021, August 11, 2021, August 15, 2021, August 18, 2021, August 22, 2021, and August 25, 2021 the Authority published a solicitation for Bid #2021-00 I for the 365 Tollway Project (Segments I and 2), Contract No. 0921-02-368 for the Project; and

WHEREAS, bids for the Project were submitted electronically via Civcast Bid System; the first bid was received at 2:27 p.m. on October 13, 2021, and the last bid was received at 2:51 pm on October 13, 2021; and

WHEREAS, at 3:05 p.m. on October 13, 2021, the Authority opened and read into the record three (3) formal sealed, electronic bids for the Project from: (i) Pulice Construction, Inc., (ii) Webber, LLC., and Anderson Columbia Co., Inc., in amounts ranging from \$295,932,420.25 to \$340,409,415.64 for construction of the Project; and

WHEREAS, Pulice Construction, Inc. provided the lowest Project bid in the amount of \$295,932,420.25; and

WHEREAS, on October 19, 2021 the Board approved Resolution 2021-46 conditionally awarding the construction contract of the 365 Toll Project to the lowest, responsive, and responsible bidder Pulice Construction, Inc. in the amount of \$295,932,420.25; and

WHEREAS, on November 10, 2021 the Board approved Resolution 2021-54, approving Change Order No. I to the construction contract with Pulice Construction Inc.; provided, there was no issuance of an NTP to Pulice Construction Inc. until a Value Engineering Proposal ("VECP") was approved by the Board of Directors and TxDOT to establish the financeability of the Project. If, after the VECP process, the Project scope was not deemed feasible and additional revenue was not available to fully fund the Project, no NTP would be issued and the Authority would have terminated the contract without incurring any additional costs other than those approved under Change Order No. I. The VECP is structured to identify concepts and function oriented techniques to improve the value of the Project, or any component thereof, including improvements to schedule, operating costs, constructability, and risk mitigation; without altering scope or environmental justices; and

WHEREAS, on December 20, 2021 the Authority approved Resolution 2021-78, authorizing the VECP proposals outlined in Exhibit A to Change Order No. 2 and the revising the contract amount to \$281,723,797.95; and, the Authority also authorized a contingency fund for the Project in the amount of \$5,000,000, and established a total overall Project cost of \$286,723,797.95;

WHEREAS, the Authority and the Board amended the Contract through Amendment No. I to capture the risk allocations and make other Contract clarifications in support of VECP; and

WHEREAS on April 19, 2022 the Authority approved Resolution 2022-36, consideration and approval of Change Order No 3 to that certain construction contract with Pulice Construction Inc. for the 365 Tollway Project, in order to further establish the VECP concepts and supporting details as provided in Exhibit A hereto;

WHEREAS on November 4, 2021 Pulice Construction Inc, expressed concern on Engineer of Record's scour reports and calculated foundation loads. Upon discussions, data collection and research, November 16, 2022, the HCRMA requested HDR[GEC] provide investigative recommendation.

WHEREAS on December 7, 2022 HOR provided review and supporting documentation in upsizing particular bent foundations at PCI proposal and costs;

WHEREAS, on January 24, 2023 the Authority approved Resolution 2023- 05, Change Order No 4 to the construction contract with Pulice Construction Inc. for the net cost increase of \$171,516.59, by removal of 1,524LF of Drill Shaft (42") and introducing 48" drill shafts to incorporate detailed, finalized quantities and unit costs; and establishes State/Federal participation on modified unit costs, assuring compliance with the standard specifications included within the contract; and,

WHEREAS, on July 25, 2023 the HCRMA Board approved Resolution 2023-30, Change Order No 5 to that certain construction contract with Pulice Construction Inc. for the 365 Tollway Project, Change Order No. 5 proves a net cost increase of \$4,325,130.78 to be fully paid by HCRMA [Owner]. Establishing a new revised contract price of \$286,220,445.32 with no additional time; and, incorporates detailed, finalized quantities and unit costs; and establishes State/Federal participation on modified unit costs, assuring compliance with the standard specifications included within the contract;

WHEREAS, on July 9, 2024 the Board's approved Resolution 2024- 27, for authorization of Change Orders number six (6) through thirteen (13) to that certain construction contract with Pulice Construction Inc. for the 365 Tollway Project. The sum of Change Orders proves a net cost increase of \$832,561.77 to be fully paid by HCRMA [Owner]. Establishing a new revised contract price of \$287,053,007.09 with no additional time; and, incorporates detailed, finalized quantities and unit costs; and establishes State/Federal participation on modified unit costs, assuring compliance with the standard specifications included within the contract. Attached exhibits provide current assessment and breakdown.

THEREFORE, for Board's consideration and approval is Resolution 2024- 52, for authorization of Change Orders number fourteen (14) to that certain construction contract with Pulice Construction Inc. for the 365 Tollway Project. The sum of Change Orders proves a maximum cost increase of \$492,363.86 to be fully paid by HCRMA [Owner]. Establishing a new revised contract price of \$287,335,648.90 with no additional time; and, incorporates detailed, finalized quantities and unit costs; and establishes no State/Federal participation on modified unit costs, assuring compliance with the standard specifications included within the contract. Attached exhibits provide current assessment and breakdown.

NOW THEREFORE BE IT RESOLVED BY THE BOARD OF DIRECTORS
OF THE HIDALGO COUNTY REGIONAL MOBILITY AUTHORITY THAT:

Section 1. The recital clauses are incorporated in the text of this Resolution as if fully restated.

Section 2. The Board hereby approves Change Orders No. 14 to the construction contract with Pulice Construction Inc. for the net cost increase of \$492,363.86.

Section 3. Construction of the 365 Toll Project in substantially final form as hereto detailed, establishing a unit bid construction amount of \$265,931,713.90, and an overall contract amount of \$287,335,648.90.

Section 4. Section 5. Upon final acceptance from FHWA/TxDOT and HCRMA Legal's review of final form; The Board hereby authorizes the Executive Director to execute the specific Change Order.

CHANGE ORDER PROPOSAL

October 10, 2024

OCN: Pulice-HCRMA-078

TO: Ramon Navarro, P.E., C.F.M.
Chief Construction Engineer
HC Regional Mobility Authority
203 W. Newcombe Avenue
Pharr, TX 78577

FROM: Rafael Carmona
Project Manager
Pulice Construction Inc.
7902 S. 10th Street,
McAllen, TX 78503

RE: **365 Toll Project (Seg 1 & 2) - CIP Junction Boxes for Irrigation**

SCOPE: The scope of this change is to adjust items related to the Junction Boxes for Irrigation.

CHANGE JUSTIFICATION: As requested by HCRMA this is to replace the approved precast junction boxes for irrigation with cast-in-place structures and to dispose the existing precast material.

SPECIFICATIONS, PLANS OR OTHER DOCUMENTS REQUIRED:

CHANGE TO CONTRACT PRICE: We're requesting additional compensation for these changes as detailed below.

Item	Description	Unit	Unit Price	Original Qty	CO Qty	Revised Qty	CO Amount
0465-6011	JCTBOX(COMPL)(PJB)(6FTX6FT)	EA	\$ 10,118.07	2	-2	0	\$ (20,236.14)
0465-6012	JCTBOX(COMPL)(PJB)(8FTX8FT)	EA	\$ 19,000.00	5	-5	0	\$ (95,000.00)
	JCTBOX(CIP)	EA	\$ 66,000.00	0	7	7	\$ 462,000.00
	JCTBOX(Material/Partial Installation)	EA	\$ 13,300.00	0	7	7	\$ 93,100.00
	JCTBOX(Removal/Disposal)	EA	\$ 7,500.00	0	7	7	\$ 52,500.00
							\$ 492,363.86

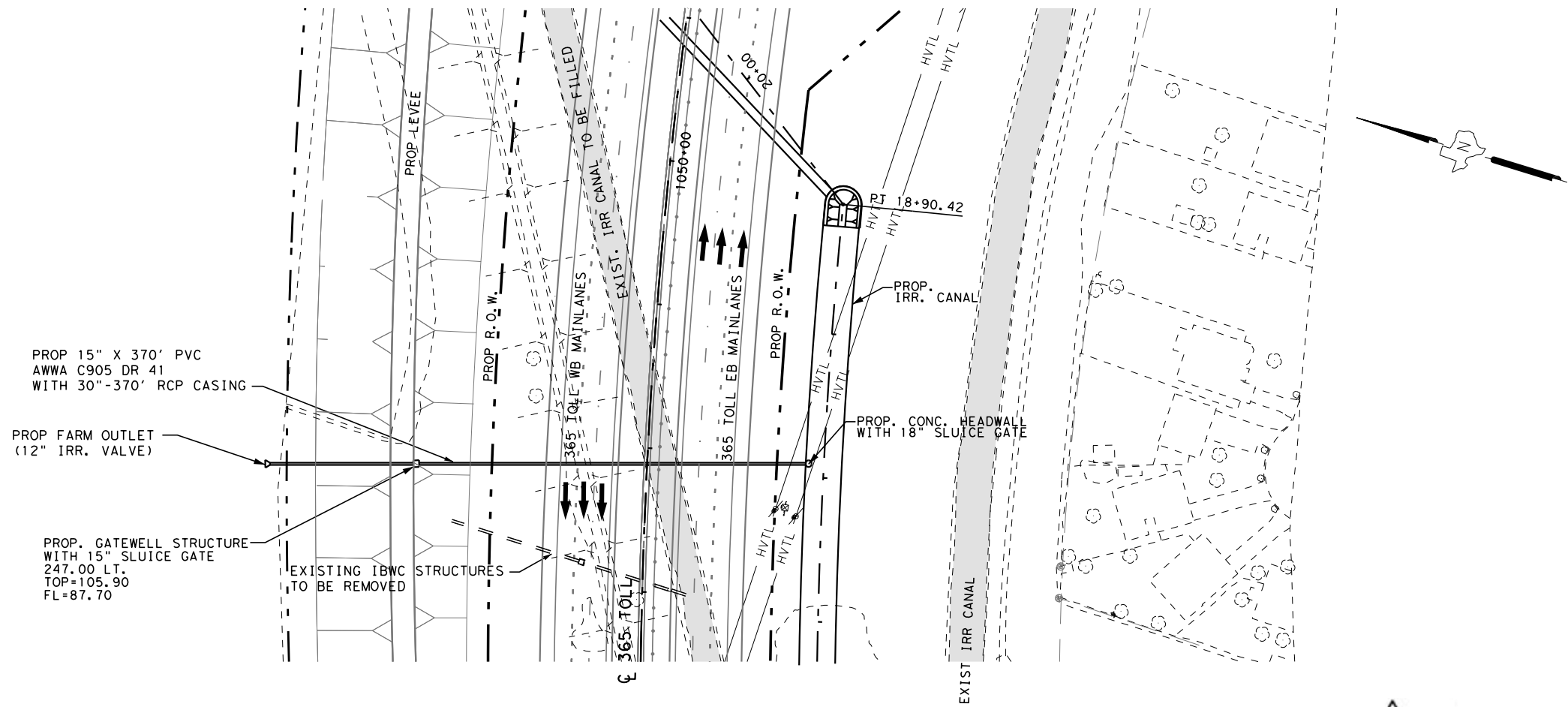
CHANGE TO CONTRACT TIME: This change order will require a time extension as it will have a significant impact on a critical section of the project. Pulice will evaluate according to HCRMA's specifications guidelines and will submit to the HCRMA a request for added time once it is known.

If you have any questions or need additional information, please contact me at (346) 324-0781.

Sincerely,


Project Manager
Pulice Construction Inc.

DATE: 9/25/2017 10:23:38 AM
FILE: c:\projectwise\workdir\enrique.flores\dms49948\05_option C-SH 365-0031_IRRX_P&P.dgn

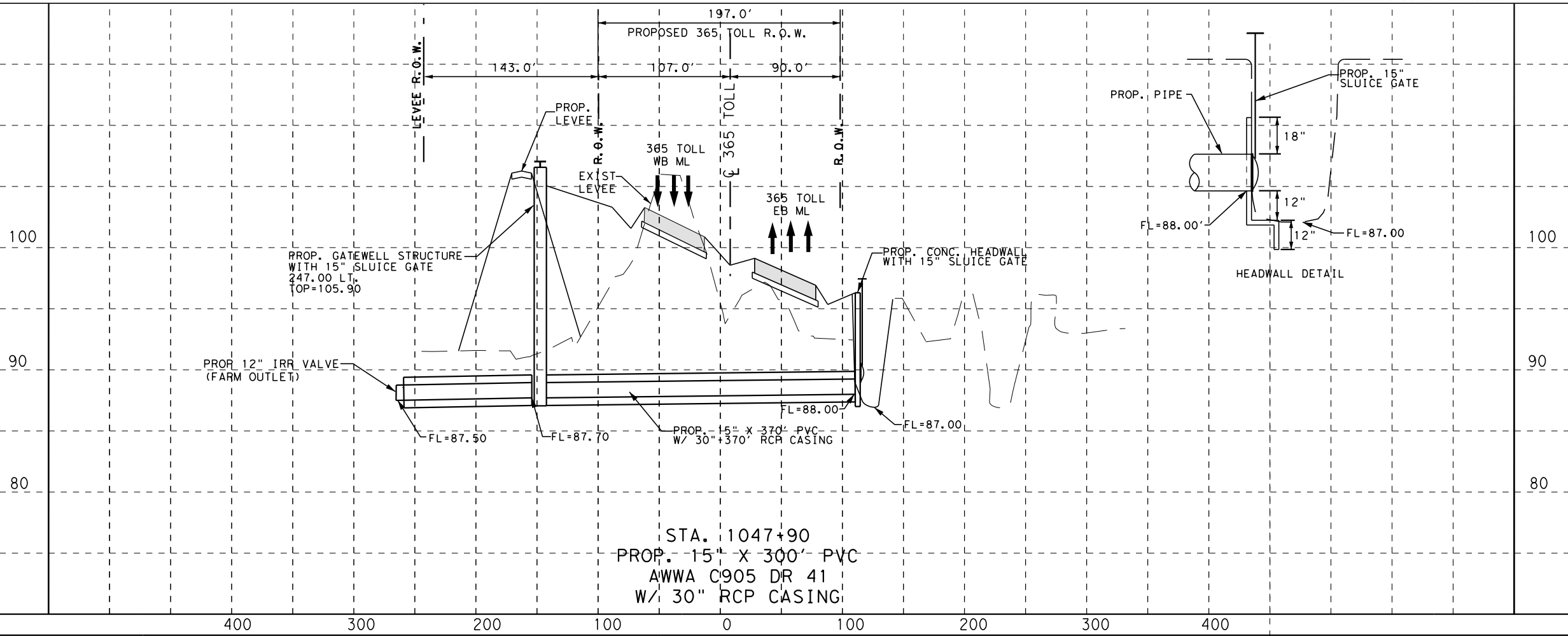


SHEET SUMMARY			
ITEM	DESCRIPTION	UNIT	QUANTITY
1008	PRSSR IRR PVC PIPE (15")	LF	370
464	RCP CL III (30 IN)	EA	370
1007	IRR GATE (15") (SLUICE)	EA	2
HCRMA 08	CONCRETE GATE WELL STRUCTURE	EA	1
466	CONCRETE HEADWALL (CH-FW-0) 15 IN	EA	1
1007	IRR. VALVE (12") (FARM OUTLET)	EA	1

- LEGEND:
- ⊗ NON-PAY, SUBSIDIARY TO PERTINENT BID ITEMS.
 - ★ TO BE REMOVED UNDER ITEM 496. INCLUDES PAYMENT FOR REMOVAL OF ALL APPURTENANCES.
 - ⊙ NON-PAY ITEM. FOR CONTRACTORS' INFORMATION ONLY.
 - ⊕ THE CONTRACTOR SHALL CONFIRM THAT THE TOP ELEVATION ON THE PROPOSED STANDPIPE IS AT THE SAME ELEVATION AS THE EXISTING STANDPIPE

- NOTES:
- THE CONTRACTOR WILL COORDINATE WITH H.C.I.D. NO.2 48 HOURS PRIOR TO COMMENCING ANY WORK AND PROVIDE SEQUENCE OF CONSTRUCTION STRUCTURES. SONNY HINOJOSA - (956)787-1422. SEE SHEET No. 1224C FOR CONC. COLLAR DETAILS.
 - THE CONTRACTOR SHALL CONFIRM THAT CONFLICTS WITH EXISTING UTILITIES HAVE BEEN RESOLVED IN ADVANCE OF CONSTRUCTION. DAMAGES CAUSED BY OR TO EXISTING UTILITIES ARE THE RESPONSIBILITY OF THE CONTRACTOR.
 - ALL PVC ELBOWS, AND CONNECTIONS SHALL BE SUBSIDIARY TO PERTINENT BID ITEMS.
 - PROPOSED INSTALLATION AND REMOVAL OF BERMS AND PUMPING WATER WILL BE SUBSIDIARY TO ITEM 464.

REVISD 10/20/2017



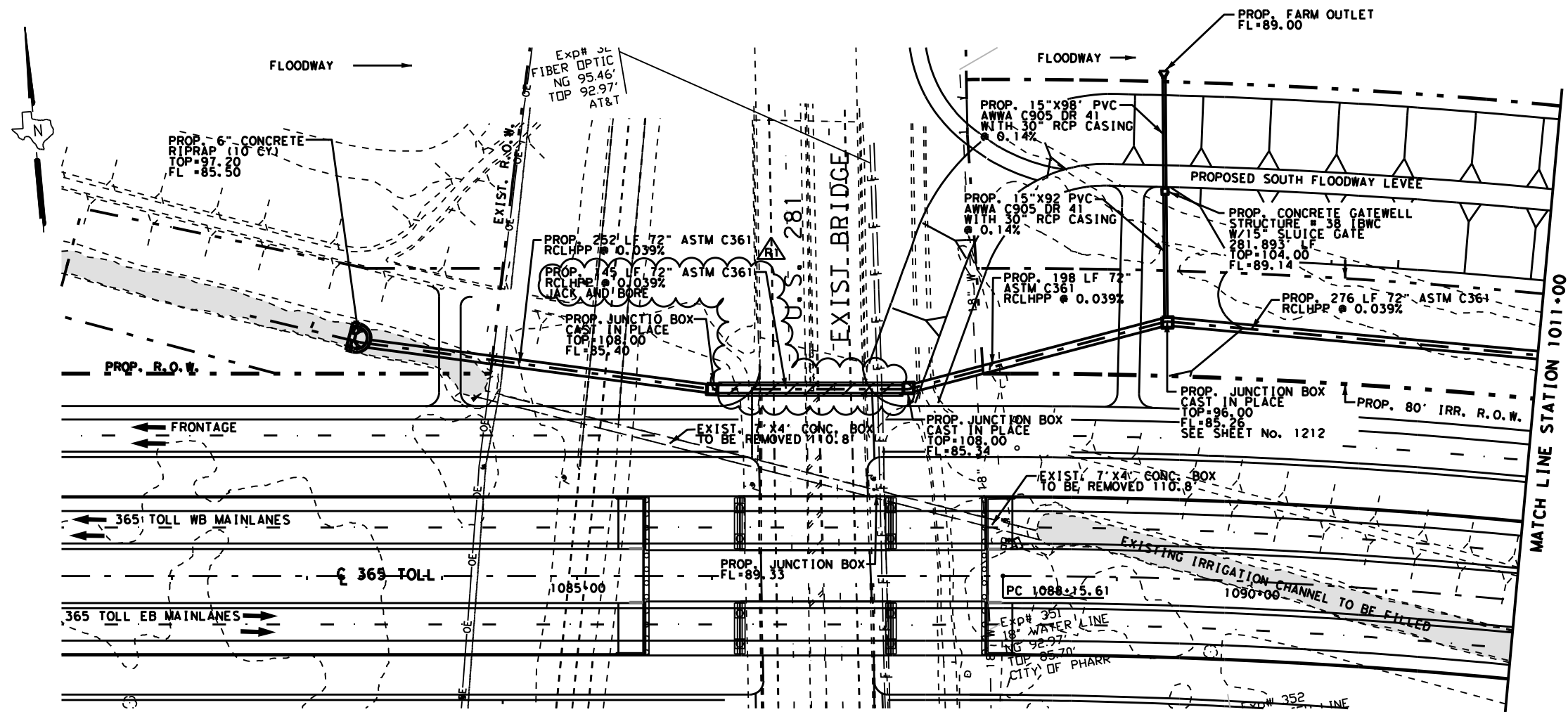
PROPOSED IRRIGATION
STRUCTURE AT
STA. 1047+90

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

SHEET 1 OF 1

CONT	SECT	JOB	HIGHWAY
0921	02	368	365 TOLL
DIST	COUNTY	SHEET NO.	
PHR	HIDALGO	1194	

DATE: 9/17/2024 9:20:05 AM
FILE: c:\projects\wise\donnerbaum-hcrma\work\air\copy of michael.meroney\dms78552\07_SH 365_0031_IRRX_P&P.dgn



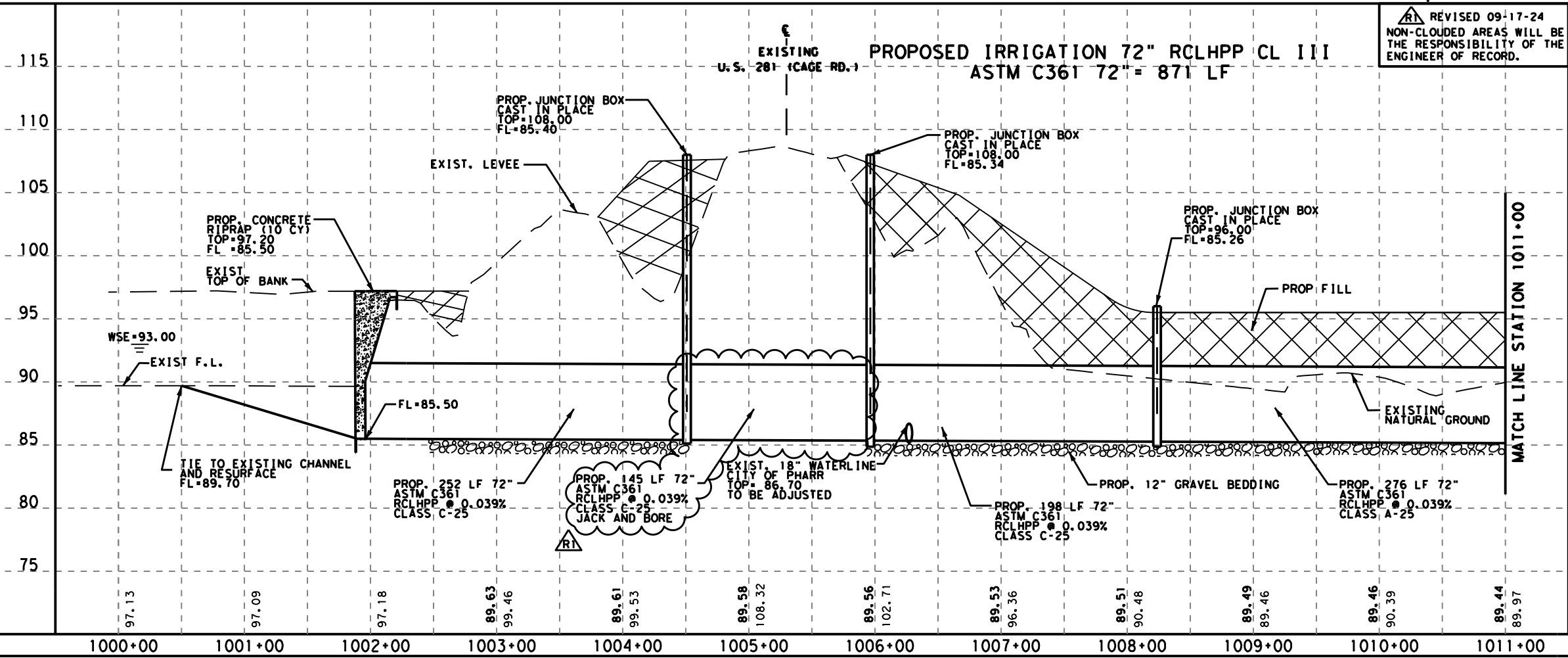
SHEET SUMMARY			
ITEM	DESCRIPTION	UNIT	QUANTITY
400	STRUCTURE EXCAV (SPECIAL) (12" GRAVEL)	CY	228
432	CONCRETE RIP RAP (6IN)	CY	10
465	JUNCTION BOX CAST IN PLACE	EA	3
466	CONCRETE HEADWALL (CH-FW-0) 15 IN	EA	1
HCRMA 08	CONCRETE GATE WELL STRUCTURE	EA	1
4021	RC LOW HEAD PRSSR PIPE 72 in	LF	871
1008	PRSSR IRR (PVC) PIPE 15"	LF	190
464	30" RCP CL III	LF	190
1007	IRR GATE (15") (SLUICE)	EA	1
476	JACK BORE OR TUN PIPE (12") (RC) (CL VI)	EA	100
1007	IRR VALVE (12") (FARM OUTLET)	EA	1

LEGEND:

- ⊗ NON-PAY, SUBSIDIARY TO PERTINENT BID ITEMS.
- ★ TO BE REMOVED UNDER ITEM 496. INCLUDES PAYMENT FOR REMOVAL OF ALL APPURTENANCES.
- ⊙ NON-PAY ITEM, FOR CONTRACTORS' INFORMATION ONLY.
- ⊕ THE CONTRACTOR SHALL CONFIRM THAT THE TOP ELEVATION ON THE PROPOSED STANDPIPE IS AT THE SAME ELEVATION AS THE EXISTING STANDPIPE

NOTES:

- THE CONTRACTOR WILL COORDINATE WITH H.C.I.D. NO. 2 48 HOURS PRIOR TO COMMENCING ANY WORK AND PROVIDE SEQUENCE OF CONSTRUCTION STRUCTURES. SONNY HINOJOSA - (956)787-1422. SEE SHEET NO. 1224C FOR CONC. COLLAR DETAILS.
- THE CONTRACTOR SHALL CONFIRM THAT CONFLICTS WITH EXISTING UTILITIES HAVE BEEN RESOLVED IN ADVANCE OF CONSTRUCTION. DAMAGES CAUSED BY OR TO EXISTING UTILITIES ARE THE RESPONSIBILITY OF THE CONTRACTOR.
- ALL PVC ELBOWS, AND CONNECTIONS SHALL BE SUBSIDIARY TO PERTINENT BID ITEMS.
- PROPOSED INSTALLATION AND REMOVAL OF BERMS AND PUMPING WATER WILL BE SUBSIDIARY TO ITEM 464.



REVISED 09-17-24
NON-CLOUDED AREAS WILL BE
THE RESPONSIBILITY OF THE
ENGINEER OF RECORD.

HDR ENGINEERING INC.
F-754

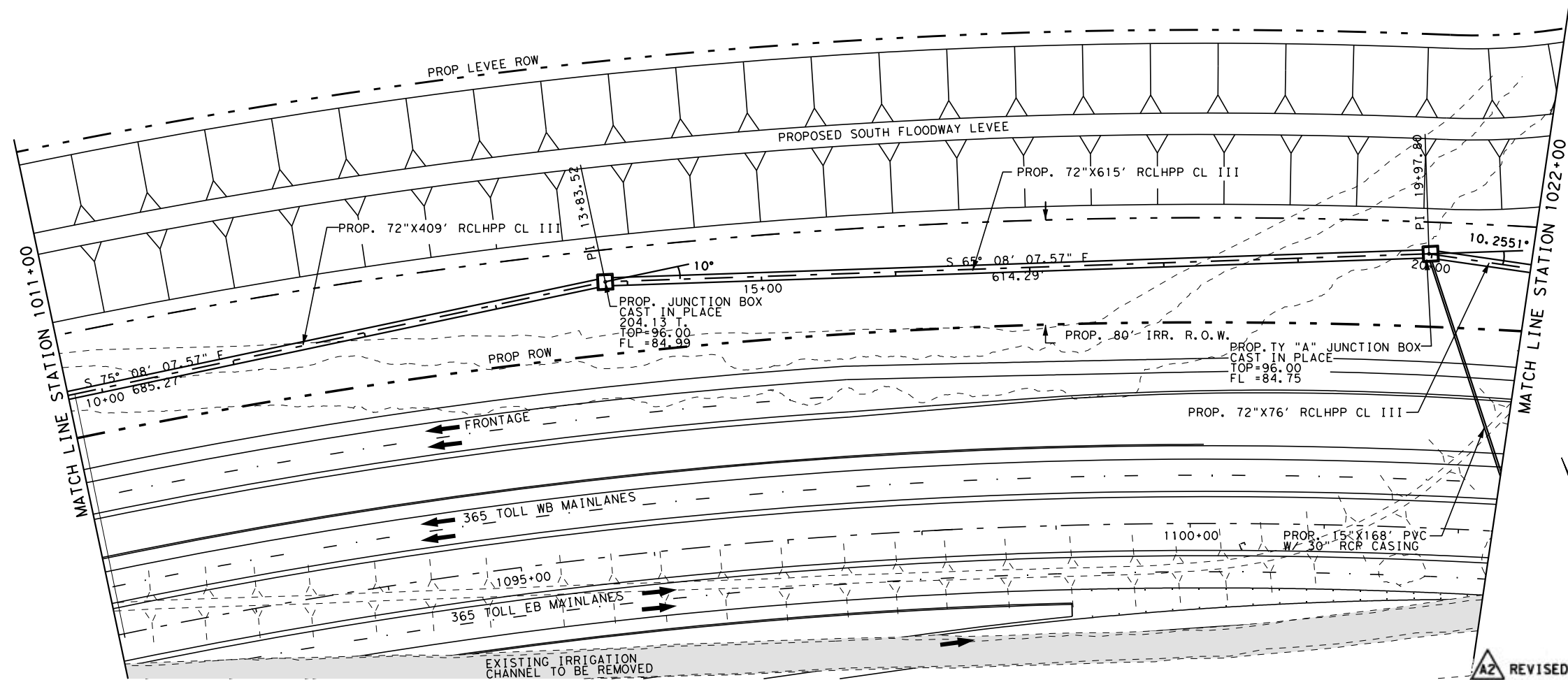


TEXAS BOARD OF PROFESSIONAL ENGINEERS #: F-1582

**PROPOSED IRRIGATION
STRUCTURE
AT U.S. 281 (CAGE BLVD)
STA 1001+11 TO STA 1011+00**

SCALE: HOR: 1" = 100' VER: 1" = 10'				SHEET 1 OF 3	
CON	SECT	JOB	HIGHWAY		
0921	02	368	365 TOLL		
DIST	COUNTY			SHEET NO.	
PHR	HIDALGO			1195	

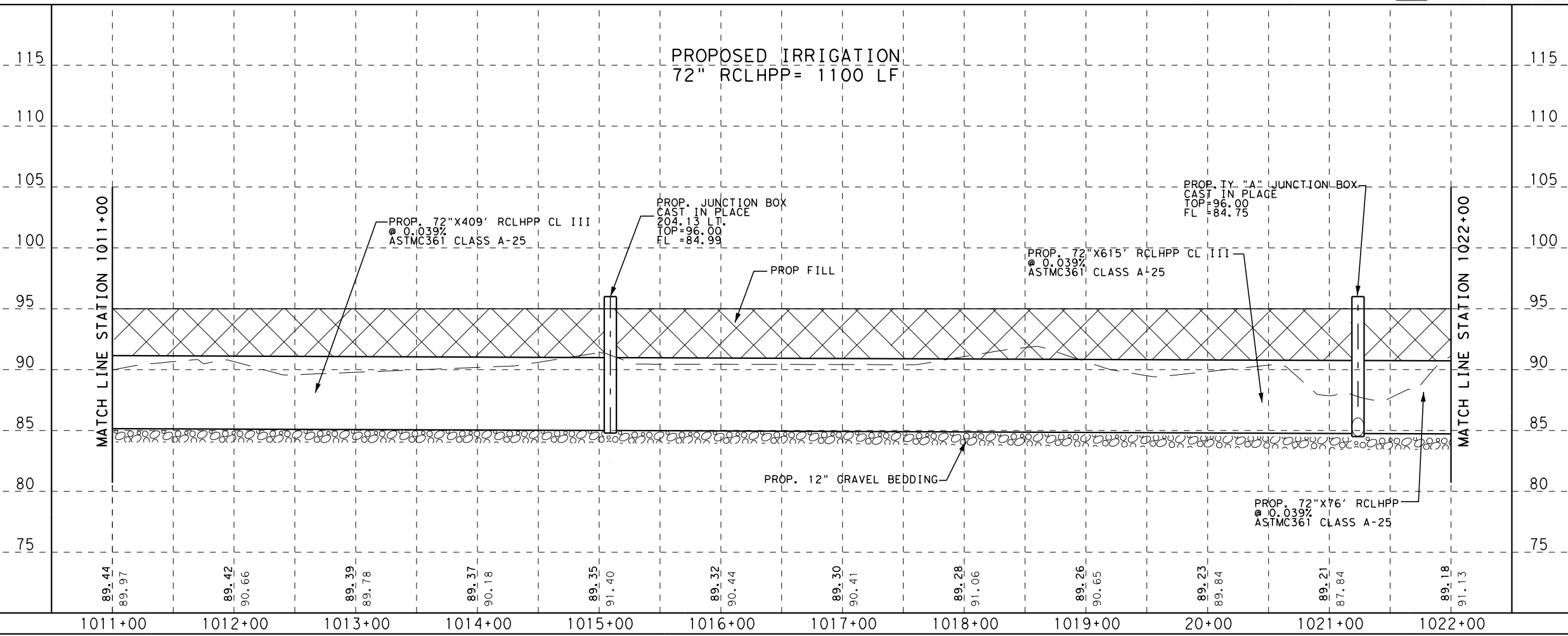
DATE: 9/25/2017 10:23:44 AM
FILE: c:\projectwise\denbaum-hcrma\workdir\enrique.flores\dms49948\08_SH_365_0031_IRRX_P&P.dgn



SHEET SUMMARY			
ITEM	DESCRIPTION	UNIT	QUANTITY
465	JUNCTION BOX CAST IN PLACE	EA	2
4021	RC LOW HEAD PRSSR PIPE 72 in	LF	1100
400	STRUCT. EXCAVATION (SPECIAL) (12" GRAVEL)	CY	285

- LEGEND:
- ⊗ NON-PAY, SUBSIDIARY TO PERTINENT BID ITEMS.
 - ★ TO BE REMOVED UNDER ITEM 496. INCLUDES PAYMENT FOR REMOVAL OF ALL APPURTENANCES.
 - ⊙ NON-PAY ITEM. FOR CONTRACTORS' INFORMATION ONLY.
 - ⊕ THE CONTRACTOR SHALL CONFIRM THAT THE TOP ELEVATION ON THE PROPOSED STANDPIPE IS AT THE SAME ELEVATION AS THE EXISTING STANDPIPE

- NOTES:
- THE CONTRACTOR WILL COORDINATE WITH H.C.I.D. NO.2 48 HOURS PRIOR TO COMMENCING ANY WORK AND PROVIDE SEQUENCE OF CONSTRUCTION STRUCTURES. SONNY HINOJOSA - (956)787-1422. SEE SHEET NO. 1224C FOR CONC. COLLAR DETAILS.
 - THE CONTRACTOR SHALL CONFIRM THAT CONFLICTS WITH EXISTING UTILITIES HAVE BEEN RESOLVED IN ADVANCE OF CONSTRUCTION. DAMAGES CAUSED BY OR TO EXISTING UTILITIES ARE THE RESPONSIBILITY OF THE CONTRACTOR.
 - ALL PVC ELBOWS, AND CONNECTIONS SHALL BE SUBSIDIARY TO PERTINENT BID ITEMS.
 - PROPOSED INSTALLATION AND REMOVAL OF BERMS AND PUMPING WATER WILL BE SUBSIDIARY TO ITEM 464.



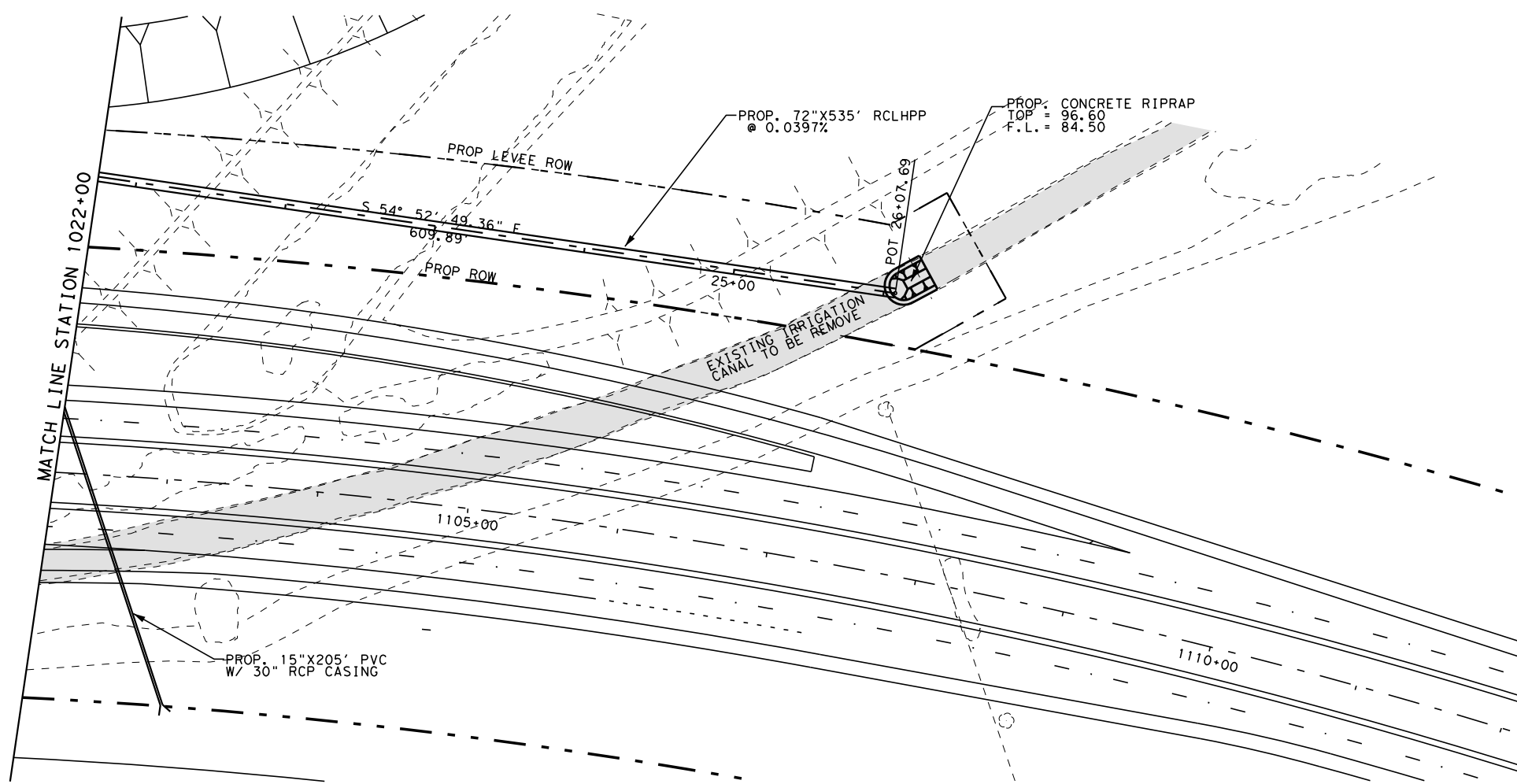
PROPOSED IRRIGATION STRUCTURE AT U.S. 281 STA 1011+00 TO STA 1022+00


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

CONTRACT NO.	SECTION	JOB NO.	HIGHWAY
0921	02	368	365 TOLL
DISTRICT	COUNTY	SHEET NO.	
PHR	HIDALGO	1196	

SHEET 2 OF 3

DATE: 9/25/2017 10:23:48 AM
FILE: c:\projectwise\donnenbaum-hcrma\workdir\enrique.flores\49948\09_SH_365_0031_IRRX_P&P.dgn

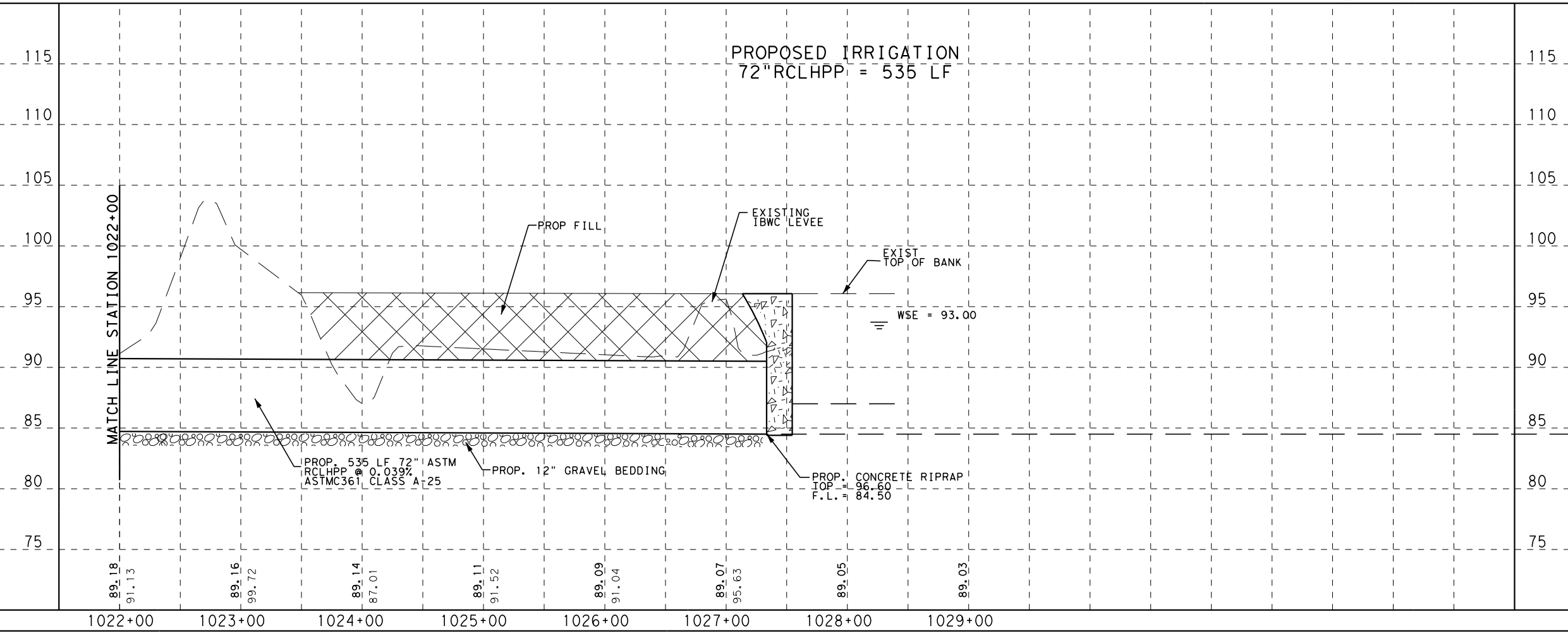


 REVISED 10/20/2017

SHEET SUMMARY			
ITEM	DESCRIPTION	UNIT	QUANTITY
464	CONCRETE RIPRAP (6")	CY	20
4021	RC LOW HEAD PRRSR PIPE 72"	LF	535
400	STRUCT. EXCAVATION (SPECIAL) (12 GRAVEL)	CY	139
466	CONCRETE HEADWALL (12")	EA	1

- LEGEND:**
- ⊗ NON-PAY, SUBSIDIARY TO PERTINENT BID ITEMS.
 - ★ TO BE REMOVED UNDER ITEM 496. INCLUDES PAYMENT FOR REMOVAL OF ALL APPURTENANCES.
 - ⊙ NON-PAY ITEM. FOR CONTRACTORS' INFORMATION ONLY.
 - ⊕ THE CONTRACTOR SHALL CONFIRM THAT THE TOP ELEVATION ON THE PROPOSED STANDPIPE IS AT THE SAME ELEVATION AS THE EXISTING STANDPIPE

- NOTES:**
1. THE CONTRACTOR WILL COORDINATE WITH H.C.I.D. NO.2 48 HOURS PRIOR TO COMMENCING ANY WORK AND PROVIDE SEQUENCE OF CONSTRUCTION STRUCTURES. SONNY HINOJOSA - (956)787-1422. SEE SHEET No. 1224C FOR CONC. COLLAR DETAILS.
 2. THE CONTRACTOR SHALL CONFIRM THAT CONFLICTS WITH EXISTING UTILITIES HAVE BEEN RESOLVED IN ADVANCE OF CONSTRUCTION. DAMAGES CAUSED BY OR TO EXISTING UTILITIES ARE THE RESPONSIBILITY OF THE CONTRACTOR.
 3. ALL PVC ELBOWS, AND CONNECTIONS SHALL BE SUBSIDIARY TO PERTINENT BID ITEMS.
 4. PROPOSED INSTALLATION AND REMOVAL OF BERMS AND PUMPING WATER WILL BE SUBSIDIARY TO ITEM 464.





Guillermo A. Arratia
9/25/17







PROPOSED IRRIGATION STRUCTURE
AT U.S. 281
STA 1022+00 TO STA 1027+33

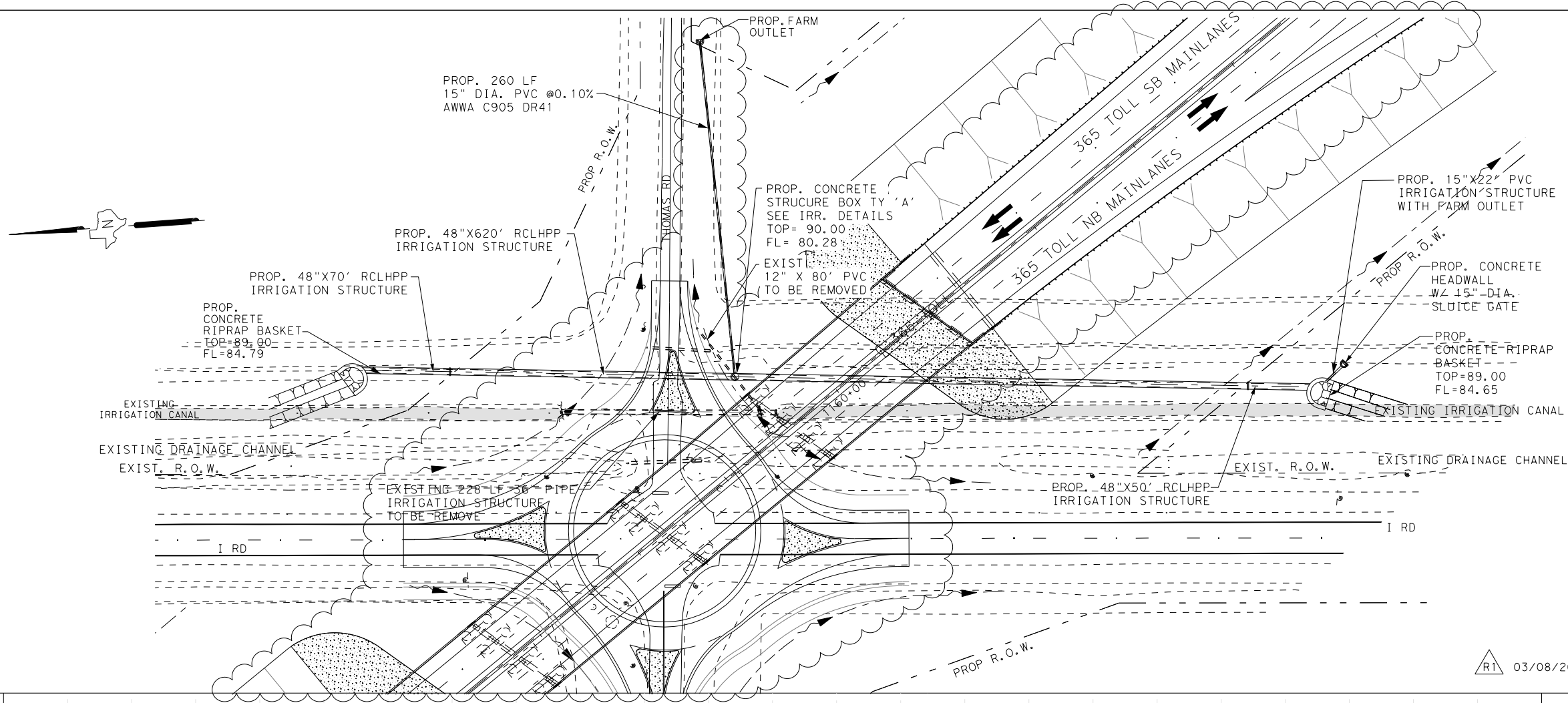
SCALE:
HOR: 1" = 100'
VER: 1" = 10'

CONT	SECT	JOB	HIGHWAY
0921	02	368	365 TOLL
DIST	COUNTY	SHEET NO.	
PHR	HIDALGO	1197	

EFFECTIVE PLAN SHEET - RELEASED FOR CONSTRUCTION
THE HCRMA HAS ACCEPTED THIS AS THE GOVERNING CONTRACT DOCUMENT UPON VERIFICATION FROM POLICE CONSTRUCTION, INC. THAT EITHER: NO CHANGE WAS MADE, MINOR REVISION WAS MADE, OR A COMPLETE REPLACEMENT OF THE SHEET WAS MADE TO CONFORM TO THE EFFECTIVE CONTRACT FOR THE 365 TOLLWAY SEGMENTS 1 AND 2 (CSJ: 0921-02-368).

DATE RECEIVED: 03/08/2023
DATE ACCEPTED: 03/29/2023
BY: Samuel Saldivar, Jr.

DATE: 08/03/2023 9:03:43
FILE: c:\project\wise\dannenbaum-hcrma\workdir\sgonzalez\dms74253\SH365_0030PCI_IRRX_P&P_1160+10.dgn



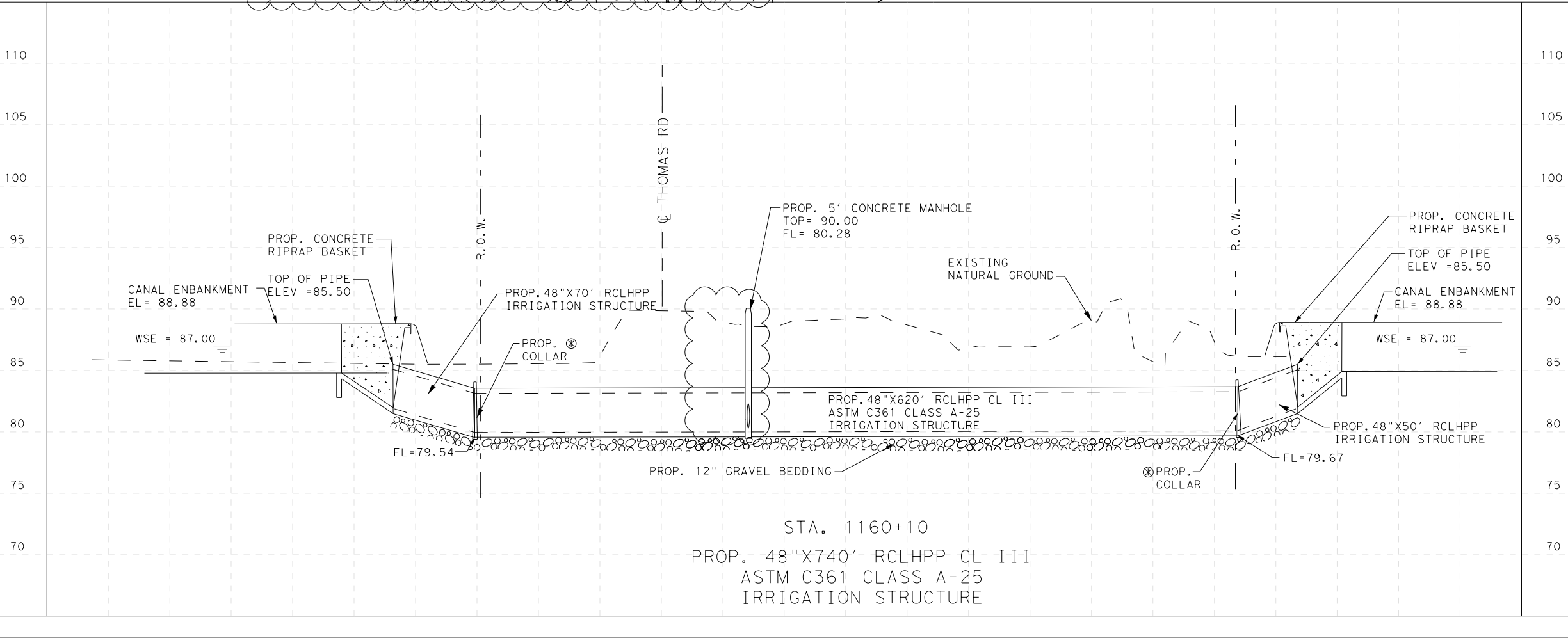
SHEET SUMMARY			
ITEM	DESCRIPTION	UNIT	QUANTITY
432	CONCRETE RIP RAP (6IN)	CY	55
465	JUNCT. BOX TY "A"	EA	1
1007	IRR GATE (15") SLUICE	EA	2
1008	PRSSR IRR (PVC) PIPE 15"	LF	276
4024	RC LOW HEAD PREASURE PIPE 48"	LF	742
466	CONCRETE HEAD WALL	EA	1
1007	12" IRR VALVE (FARM OUTLET)	EA	2
400	STR EXCV (SPECIAL) (12" GRAVEL)	CY	164

- LEGEND:
- ⊗ NON-PAY, SUBSIDIARY TO PERTINENT BID ITEMS.
 - ★ TO BE REMOVED UNDER ITEM 496. INCLUDES PAYMENT FOR REMOVAL OF ALL APPURTENANCES.
 - ⊙ NON-PAY ITEM. FOR CONTRACTORS' INFORMATION ONLY.
 - ⊕ THE CONTRACTOR SHALL CONFIRM THAT THE TOP ELEVATION ON THE PROPOSED STANDPIPE IS AT THE SAME ELEVATION AS THE EXISTING STANDPIPE

- NOTES:
- THE CONTRACTOR WILL COORDINATE WITH H.C.I.D. NO.2 48 HOURS PRIOR TO COMMENCING ANY WORK AND PROVIDE SEQUENCE OF CONSTRUCTION STRUCTURES. SONNY HINOJOSA - (956)787-1422. SEE SHEET No. 1224C FOR CONC. COLLAR DETAILS.
 - THE CONTRACTOR SHALL CONFIRM THAT CONFLICTS WITH EXISTING UTILITIES HAVE BEEN RESOLVED IN ADVANCE OF CONSTRUCTION. DAMAGES CAUSED BY OR TO EXISTING UTILITIES ARE THE RESPONSIBILITY OF THE CONTRACTOR.
 - ALL PVC ELBOWS, AND CONNECTIONS SHALL BE SUBSIDIARY TO PERTINENT BID ITEMS.
 - PROPOSED INSTALLATION AND REMOVAL OF BERMS AND PUMPING WATER WILL BE SUBSIDIARY TO ITEM 464.

R1 03/08/2023

NON-CLOUDED AREAS WILL BE THE RESPONSIBILITY OF THE ENGINEER OF RECORD, FOR THE RESPECTIVE CHANGES SHOWN IN PREVIOUS REVISIONS OF THIS SHEET.



OTHON INC.
F-1471

Michael Liang

03/08/2023

STATE OF TEXAS

MICHAEL Z. LIANG

115839

LICENSED PROFESSIONAL ENGINEER

HCRMA

HIDALGO COUNTY REGIONAL MOBILITY AUTHORITY

©2023

Texas Department of Transportation

PROGRAM MANAGEMENT CONSULTANT

DANNENBAUM

ENGINEERING CORPORATION

T.B.P.E. FIRM REGISTRATION #392

1109 NOLANA LOOP, STE 208 MCALLEN, TX 78504 (956) 682-3677

S&B

S&B INFRASTRUCTURE, LTD.

TEXAS BOARD OF PROFESSIONAL ENGINEERS #: F-1582

PROPOSED IRRIGATION STRUCTURE AT 1160+10

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

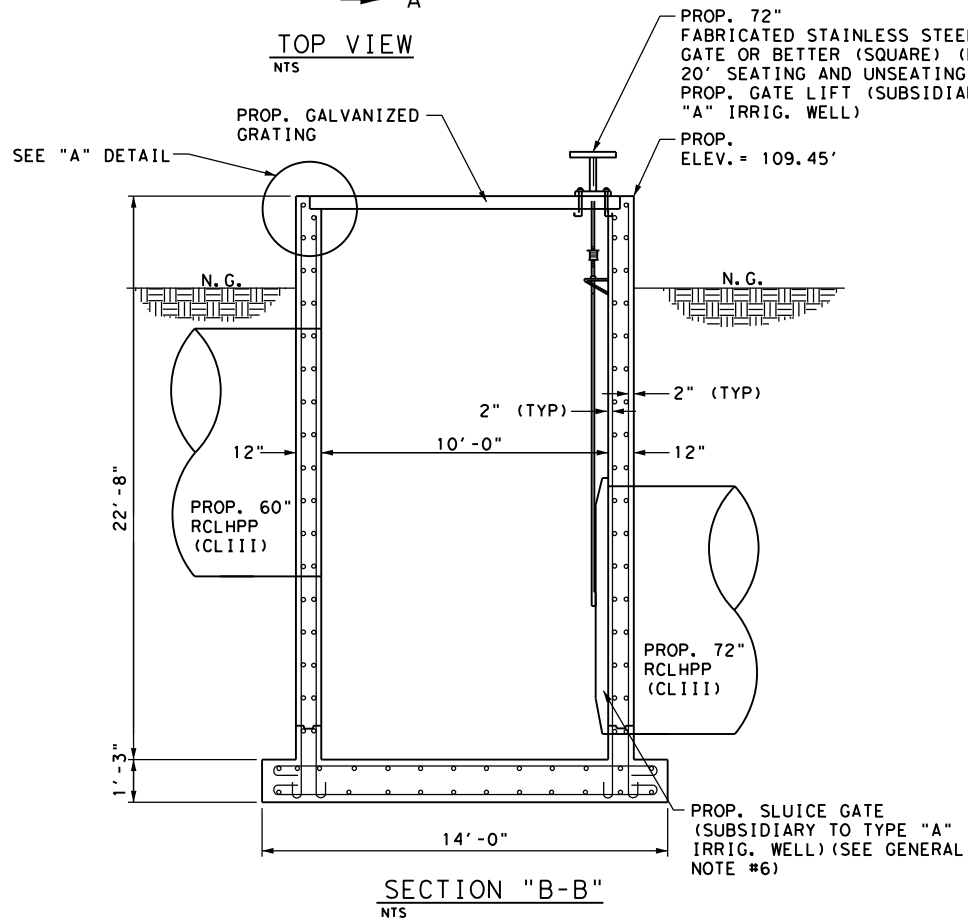
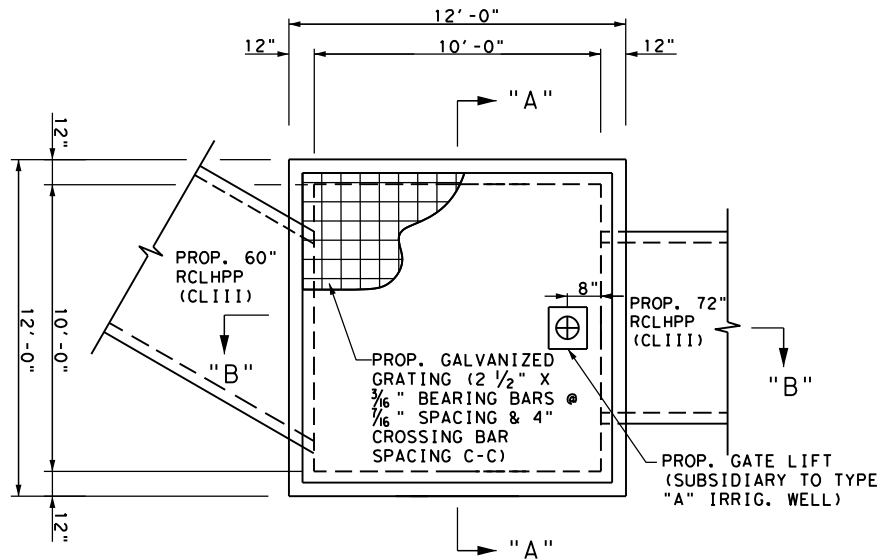
SHEET 4 OF 9

REV:	DATE:	EOR:	CONT	SECT	JOB	HIGHWAY
0	09/25/2017	GA				
1	03/08/2023	ML	0921	02	368	365 TOLL
			DIST		COUNTY	SHEET NO.
			PHR		HIDALGO	1201

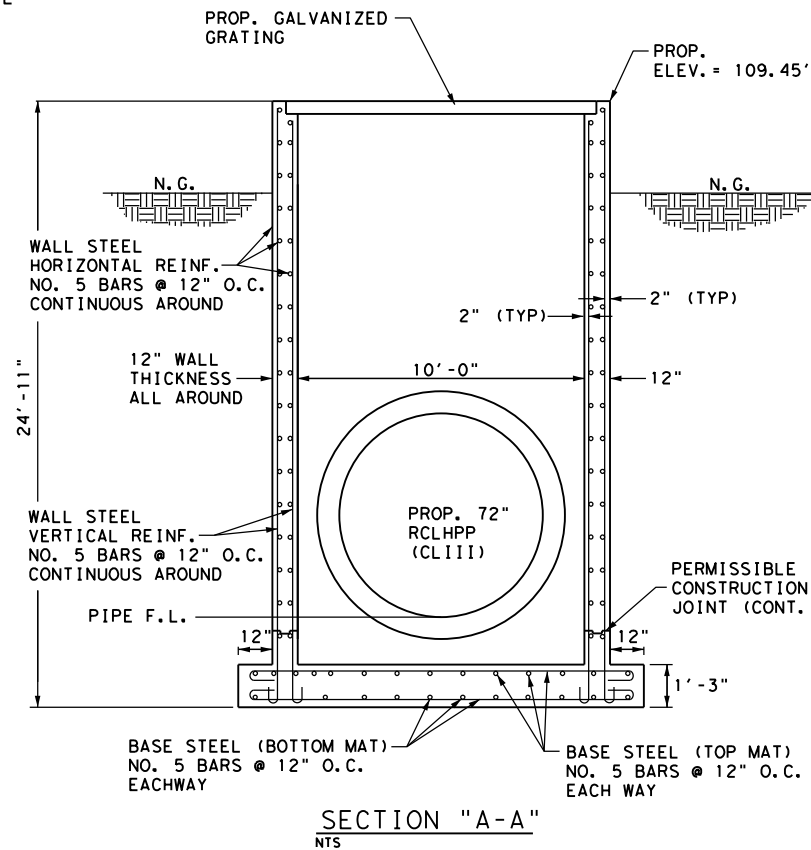
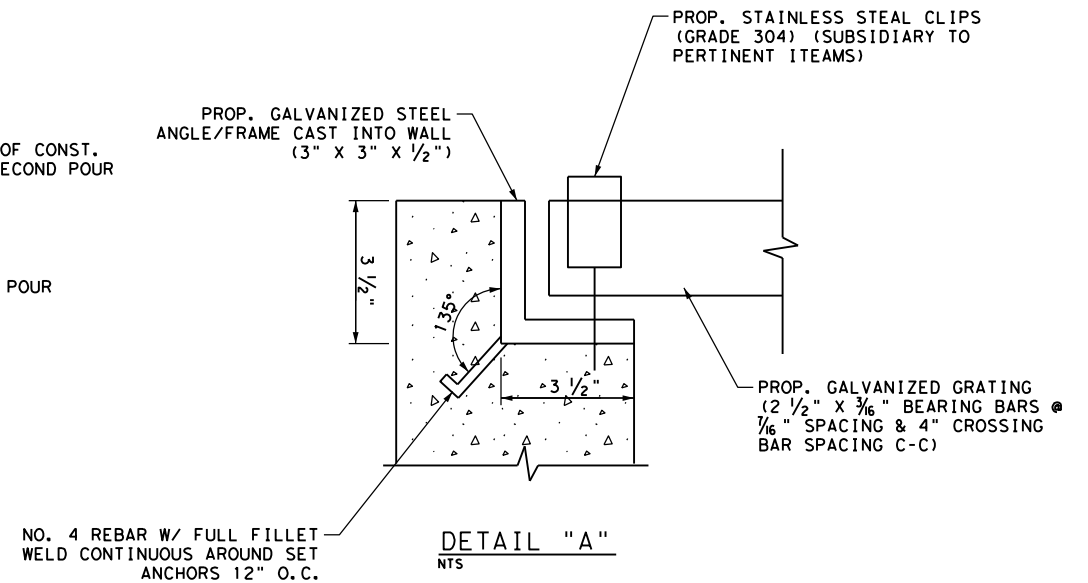
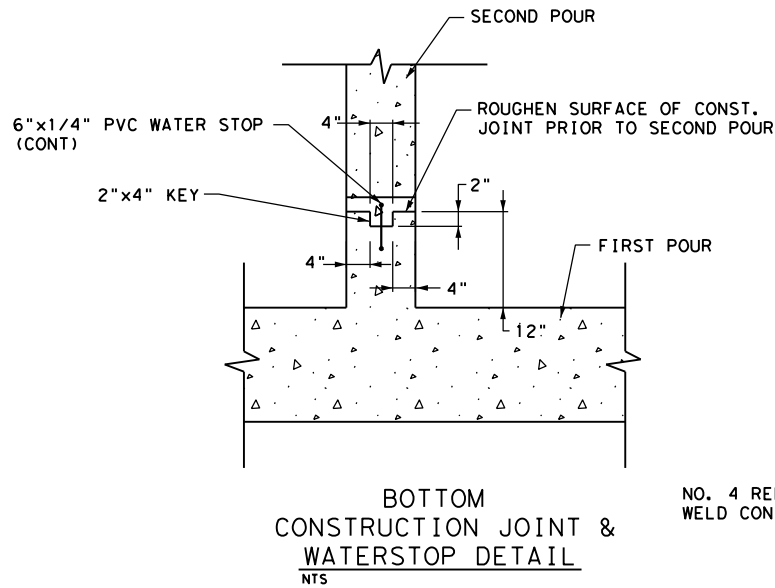
DATE: 10/20/2017 10:50:15 AM
FILE: c:\projectwise\donnenbaum-horma\workdir\rol.i.quintanilla\dms35239\newid3irrigdet_1.dgn

GENERAL NOTES

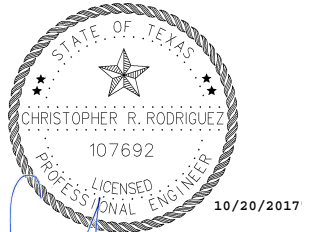
1. CHAMFER ALL EXPOSED CONC. CORNERS 1".
2. ALL CONCRETE SHALL HAVE A COMPRESSIVE STRENGTH OF 3000 P.S.I. AT 28 DAYS
3. ALL REINFORCING STEEL SHALL BE GRADE 60
4. LAP OR ANCHOR ALL STEEL A MINIMUM OF 30 DIA.'S. ALL HORZ. STEEL SHALL BE CONTINUOUS AROUND CORNERS.
5. REINFORCING BARS MAY BE ADJUSTED BUT SHALL PROVIDE A MINIMUM OF 2 INCHES CLEAR COVER
6. PROP. SLUCIE GATE SHALL BE A FRESNO LIFT AND GATE (SQUARE)® OR APPROVED EQUAL DESIGNED FOR 20' SEATED AND UNSEATED HEADS (SUBSIDIARY TO TYPE "A" IRRIG. WELL) GATE SHALL HAVE STAINLESS STEEL SIDE ANGLES (FRAME), STAINLESS STEEL STEM, GEARED LIFT, PACKING GLAND, & PEDISTAL MADE OF CAST IRON.
7. PROP. GALVANIZED FRAME AND GRATE SHALL BE SUBSIDIARY TO TYPE "A" IRRIG. WELL



TYPICAL TYPE "A" IRRIG. WELL DETAIL
NTS



A2 - REVISED 10-20-17



PROGRAM MANAGEMENT CONSULTANT
DANNENBAUM
ENGINEERING CORPORATION
T.B.P.E. FIRM REGISTRATION #392
1109 NOLANA LOOP, STE 208 MCALLEN, TX 78504 (956) 682-3677

L&G Engineering
Highway / Civil
Structural / Bridge
Environmental
Firm No. : F-4105
2100 W. Expressway 83
Mercedes, TX 79070
Phone : (956) 565-9813
Fax : (956) 565-9818
900 S. Stewart Rd., Ste. 10
Mission, TX 78572
Phone : (956) 585-1999
Fax : (956) 585-1927

SH 365
TYPE A
IRRI. DETAILS

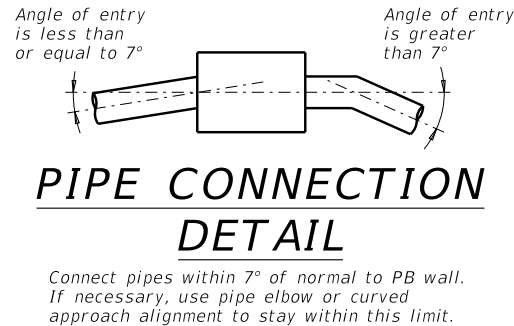
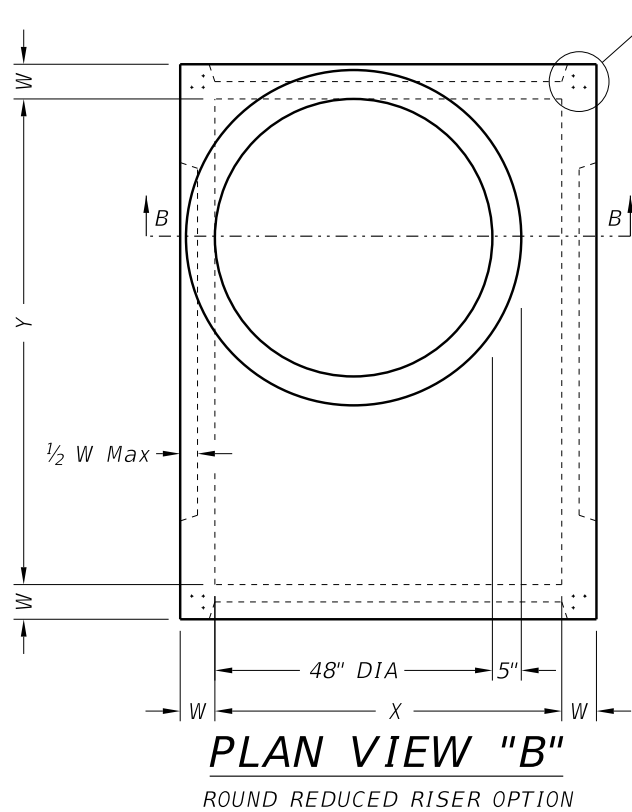
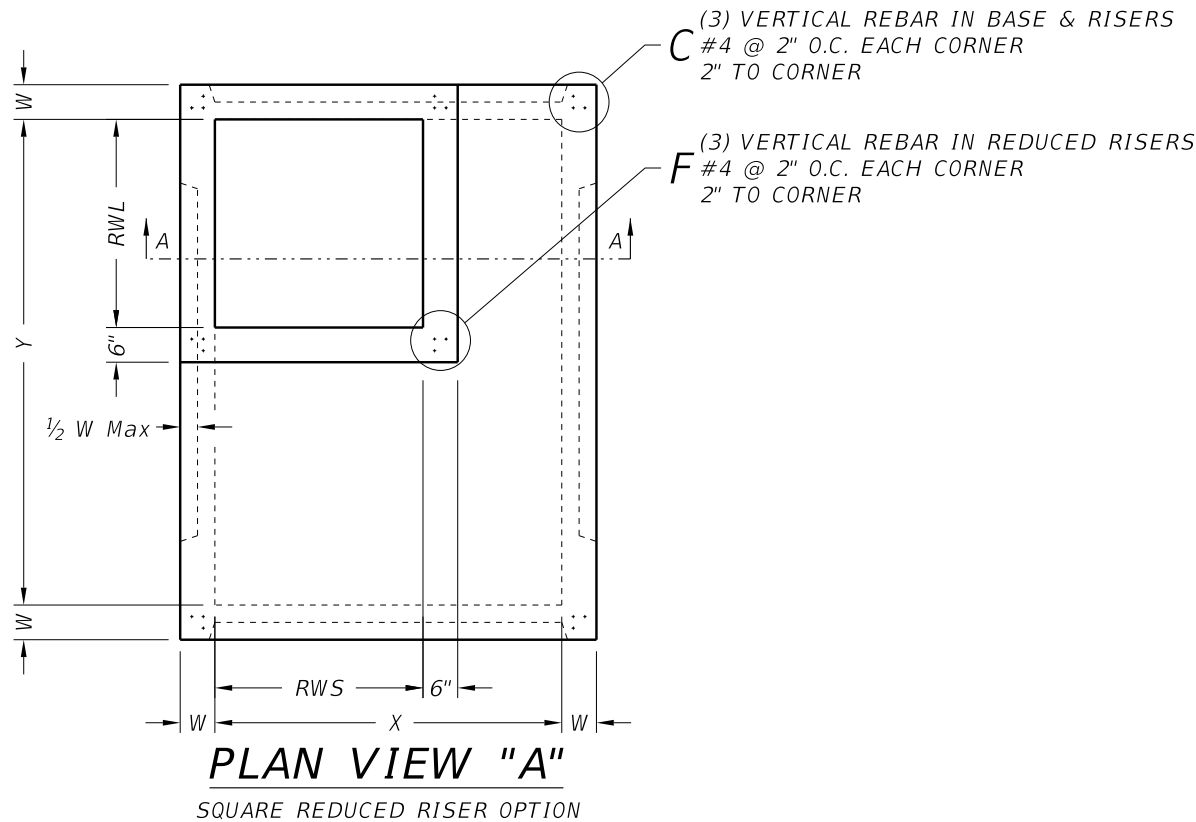
SHEET 1 OF 6

DN:	CONT	SECT	JOB	HIGHWAY
CK DN:	0921	02	368	365 TOLL
DW:	DIST	COUNTY	SHEET NO.	
CK DW:	PHR	HIDALGO	1207	
TR:				
CK TR:				

This sheet was not changed as part of the VECP design process and remains in its original IFC state.

DISCLAIMER:
The use of this standard is governed by the "Texas Engineering Practice Act." No warranty of any kind is made by TxDOT for any purpose whatsoever. TxDOT assumes no responsibility for the conversion of this standard to other formats or for incorrect results or damages resulting from its use.

DATE:
FILE:



FABRICATION NOTES:

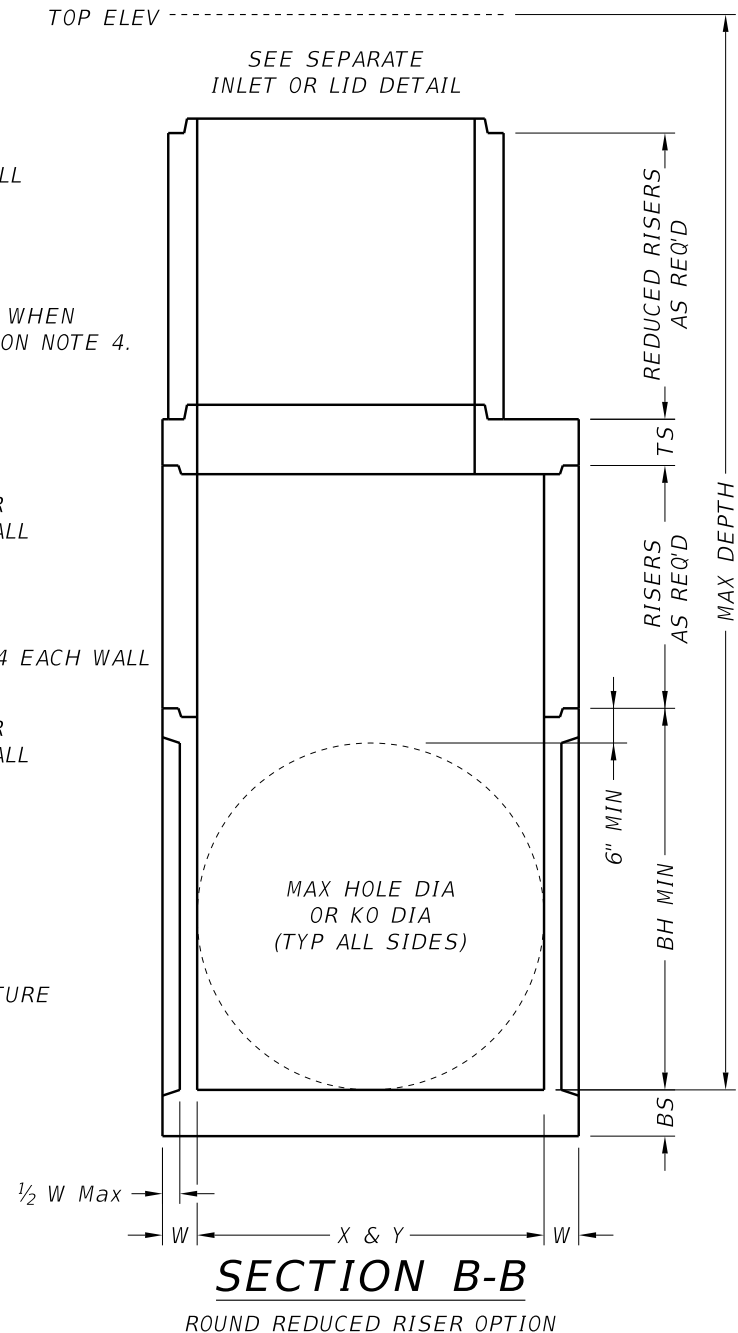
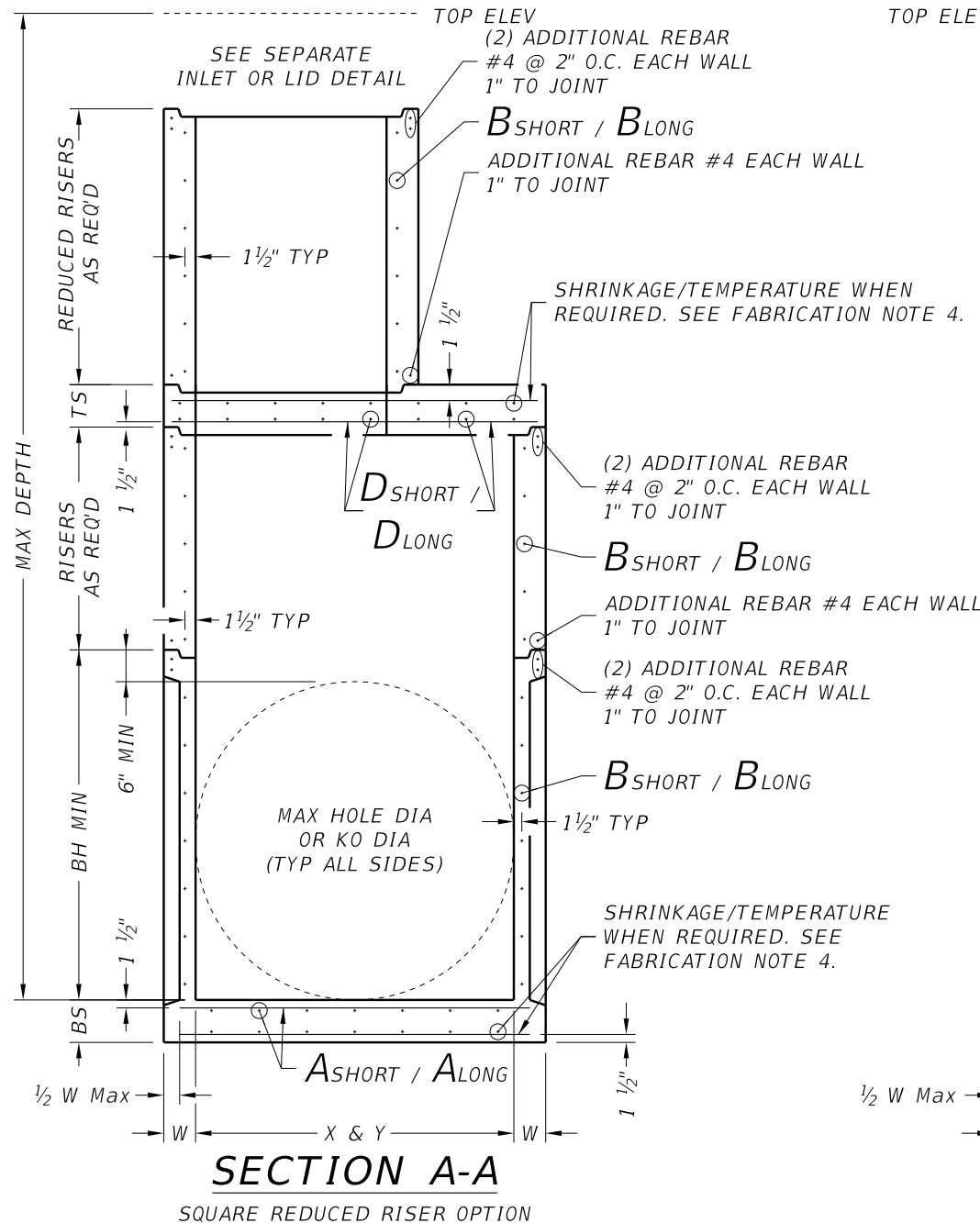
1. Provide Class "H" concrete in accordance with Item 421 and having a minimum compressive strength of 5,000 psi.
2. Provide Grade 60 reinforcing steel or equivalent area of WWR.
3. Provide typical clear cover of 1 1/2" to reinforcing steel at interior or exterior walls.
4. Walls or slabs with a thickness of 8" or greater require shrinkage and temperature reinforcing steel. Provide steel area = 0.11 in²/ft each way.
5. No substitution is allowed for vertical and horizontal #4 bars in corners.
6. Manufacture base and risers to nearest 3" increment.
7. Design tongue and groove joints for full closure on both shoulders. Minimum spigot depth is 3/4".
8. Provide lifting devices in conformance with Manufacturer's recommendations.
9. See sheet PDD for sizes, dimensions, and reinforcing steel not shown.

INSTALLATION NOTES:

1. If required elsewhere. Inverts (benching) to be provided by Contractor. Concrete or mortar used for invert is subsidiary to specified inlet or manhole.
2. Seal tongue and groove joints with preformed or bulk mastic in conformance with Manufacturer's recommendations. Tongue and groove joints may be grouted no more than 1" between each section, or 1/2 the joint depth, whichever is greater.
3. Do not grout rubber gasket joints without Manufacturer's recommendation.
4. For rigid pipe, cut hole in thin wall panel (KO) 4" Max, 2" Min larger than pipe OD.
5. For flexible pipe, consult boot/seal Manufacturer's specification for placement tolerance and hole size. Center pipe in hole and install boot/seal per Manufacturer's specification.

GENERAL NOTES:

1. Precast Base consists of base slab, base unit, risers (as required), reducing slab (as required), and reduced risers (as required). See sheet PDD for sizes.
2. Designed according to ASTM C913.
3. Payment for precast base is subsidiary to the specified inlet, per Item 465, "Junction Boxes, Manholes, and Inlets."



Cover dimensions are clear dimensions, unless noted
otherwise.

HL93 LOADING



Bridge
Division
Standard

PRECAST BASE

PB

FILE: CD-PB-20.dgn	DN: TxDOT	CK: TxDOT	DW: TxDOT	CK: TxDOT
©TxDOT February 2020	CONT	SECT	JOB	HIGHWAY
REVISIONS	DIST	COUNTY	SHEET NO.	



REQUEST FOR INFORMATION

No. HCRMA 365.RFI.107

TITLE: Cage BLVD Waterline Relocation Proposed Solution
PULICE PROJECT: 62-016-HCRMA 365 TOLL
OWNER PROJECT: CSJ: 0921-02-368

DATE: 9/1/2023
RESPONSE REQUIRED BY: 9/8/2023

TO: Ramon Navarro, P.E., C.F.M.
Chief Construction Engineer
Hidalgo County Regional Mobility Authority
203 W. Newcombe Avenue
Pharr, TX 78577

WORK IMPACT: ☒ YES ☐ NO **SCHEDULE IMPACT:** ☒ YES ☐ NO **COST IMPACT:** ☒ YES ☐ NO

REQUEST: On RFI 95, a possible solution was proposed to lower casing below 72" irrigation run which was in conflict. As per meeting with hcid 2 on 9/1/2023, a new proposed solution would be to raise the proposed 72" irrigation line 2 ft and then connect into proposed junction box on sheet 1195 (attached). Can HCRMA please evaluate and provide a solution for this conflict? Thank you.

REF. DRAWINGS: 1195, 1227

REQUESTED BY: Thomas Rodriguez

DATE: 9/1/2023

ANSWER:

ANSWER SIGNED BY: _____

DATE: _____

CC: Sergio Mandujano - HCRMA
Ronald Reyes -HCRMA
Rafael Carmona - Pulice
Jose Rivera - Pulice
Luis Salinas - Pulice
Paola Morales - Pulice
Luis Escalera - Pulice



HCRMA - US 281 Cage BLVD Irrigation Line Precast JCT Boxes

Description

The following calculation sheet calculates the uplift forces at each joint of the precast junction boxes. Two different scenarios were considered, junction box 1 & 5.

The following forces are considered:

- Soil Dead Load (+)
- Concrete Weight Dead Load (+)
- Buoyancy Forces (-)

input

Data input

check

Uplift Check



General Site Data

$$\gamma_{soil} := 112 \text{ pcf}$$

Soil Unit Weight - dry soil

$$\gamma_w := 62.4 \text{ pcf}$$

Water Unit Weight

$$\gamma_{conc} := 150 \text{ pcf}$$

Structural Concrete Unit Weight

$$EL_{WSE} := 93 \text{ ft}$$

Water Seasonal Elevation

LPILE Parameters										
Bridge	Boreholes	Borehole Elevation	Groundwater Elevation	Elevation	LPILE Soil type	Effective Unit weight	Cohesion (Su)	Friction Angle	Soil Strain Factor	Subgrade Modulus (k)
-	-	ft	ft	ft	-	pcf	psf	°	ϵ_{50}	pci
Jackson Road	B-6, B-7	100	85	100 to 90	Stiff Clay without Free Water	112	1500	---	0.008	525
				90 to 85	Stiff Clay without Free Water	58	3000	---	0.006	815
				85 to 80	Stiff Clay without Free Water	46	---	29	---	55
				75 to 65	Sand	48	---	30	---	60
				65 to 55	Sand	66	---	35	---	110
				55 to 15	Sand	48	---	30	---	60
US 281	B-34, B-36	96	77	96 to 82	Stiff Clay without Free Water	112	1500	---	0.008	525
				82 to 70	Sand	43	---	28	---	45
				70 to 40	Sand	58	---	34	---	100
				40 to 15	Sand	48	---	30	---	60

72" Pipe

$$ID_{72} := 72 \text{ in}$$

Inside Diameter

$$t_{72} := 9.5 \text{ in}$$

Pipe Wall Thickness

$$OD_{72} := ID_{72} + 2 \cdot t_{72} = 91 \text{ in}$$

Outside Diameter

$$A_{72} := \pi \cdot (0.5 \cdot OD_{72})^2 = 6503.882 \text{ in}^2$$

Pipe Area - outside diameter

30" Pipe

$$ID_{30} := 30 \text{ in}$$

Inside Diameter

$$t_{30} := 5 \text{ in}$$

Pipe Wall Thickness

$$OD_{30} := ID_{30} + 2 \cdot t_{30} = 40 \text{ in}$$

Outside Diameter

$$A_{30} := \pi \cdot (0.5 \cdot OD_{30})^2 = 1256.637 \text{ in}^2$$

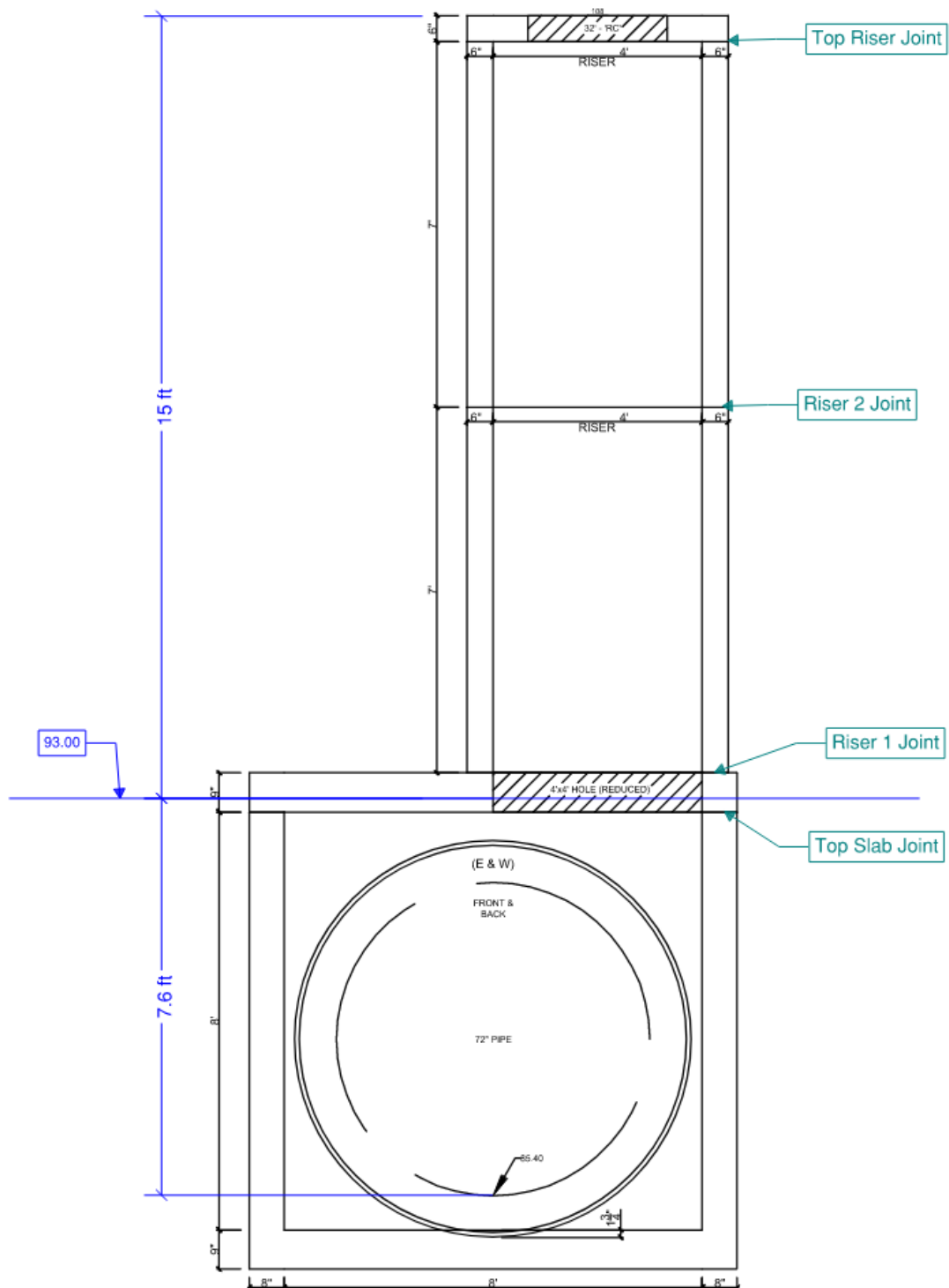
Pipe Area - outside diameter



Junction Box #1

Sta 1004 + 50.00
72" Pipe Running E-W

Water Seasonal Elevation = 93'
Top Elevation = 108'





Geometry

$$\text{offset} := -2.5 \text{ in}$$

Bot of Pipe to Top of Base Slab Elev

$$X_B := 8 \text{ ft}$$

$$Y_B := 8 \text{ ft}$$

$$D_B := 8 \text{ ft}$$

Junction Box Dimensions

$$W_B := 8 \text{ in}$$

Junction Box Wall Thickness

$$D_{BS} := 9 \text{ in}$$

Base Slab Thickness

$$D_{TS} := 9 \text{ in}$$

Top Slab Thickness

$$X_{BS} := X_B + 2 \cdot W_B = 112 \text{ in} \quad Y_{BS} := Y_B + 2 \cdot W_B = 112 \text{ in}$$

Base Slab Widths

$$X_{TS} := X_B + 2 \cdot W_B = 112 \text{ in} \quad Y_{TS} := Y_B + 2 \cdot W_B = 112 \text{ in}$$

Top Slab Widths

$$x_{riser} := 4 \text{ ft}$$

$$y_{riser} := 4 \text{ ft}$$

$$D_{riser} := 7 \text{ ft}$$

Riser Dimensions

$$t_{riser} := 6 \text{ in}$$

Riser Wall Thickness

$$n_{riser} := 2$$

Number of Risers

$$A_{riser} := (x_{riser} + 2 \cdot t_{riser}) \cdot (y_{riser} + 2 \cdot t_{riser}) = 25 \text{ ft}^2$$

Outside Riser Area

$$A_{hole} := x_{riser} \cdot y_{riser} = 16 \text{ ft}^2$$

Riser Hole Area @ Box Top Slab

$$t_{r.top} := 6 \text{ in}$$

Riser Cover Thickness

$$d_{r.top} := 32 \text{ in}$$

Riser Cover Opening Diameter

$$A_{r.top} := \pi \cdot (0.5 \cdot d_{r.top})^2$$

Riser Cover Opening Area



Elevations

$$EL_{WSE} = 93 \text{ ft}$$

Recall Water Seasonal Elevation

$$EL_{riser} := 108 \text{ ft}$$

Top of Riser Cover Elevation

$$EL_{FG} := EL_{riser} - 6 \text{ in}$$

Finished Grade Elevation - to be assumed 6 in below top of riser cover

$$EL_{inv} := 85.34 \text{ ft}$$

Pipe Invert Elevation

$$EL_{b,BS} := EL_{inv} - t_{72} - offset - D_{BS} = 84.007 \text{ ft}$$

Bottom of Base Slab Elevation

$$EL_{t,BS} := EL_{b,BS} + D_{BS} = 84.757 \text{ ft}$$

Top of Base Slab Elevation

$$EL_{b,TS} := EL_{t,BS} + D_B = 92.757 \text{ ft}$$

Bottom of Top Slab Elevation

$$EL_{t,TS} := EL_{b,TS} + D_{TS} = 93.507 \text{ ft}$$

Top of Top Slab Elevation

$$EL_{riser1} := EL_{t,TS} + D_{riser} = 100.507 \text{ ft}$$

Elevation at top of riser 1

$$EL_{riser2} := EL_{t,TS} + 2 D_{riser} = 107.507 \text{ ft}$$

Elevation at top of riser 2

Concrete Volume

$$V_{BS} := D_{BS} \cdot X_{BS} \cdot Y_{BS} = 65.333 \text{ ft}^3$$

Volume of Base Slab

$$A_{TS} := X_{TS} \cdot Y_{TS} - A_{hole}$$

Area of top slab

$$V_{TS} := D_{TS} \cdot (A_{TS}) = 53.333 \text{ ft}^3$$

Volume of Top Slab

$$V_{wall,EW} := 2 (X_{TS} \cdot D_B - A_{72}) \cdot W_B = 39.334 \text{ ft}^3$$

Volume of E & W Walls

$$V_{wall,NS} := 2 (X_{TS} \cdot D_B) \cdot W_B = 99.556 \text{ ft}^3$$

Volume of N & S Walls

$$V_{wall} := V_{wall,EW} + V_{wall,NS} = 138.89 \text{ ft}^3$$

Total Volume of Walls

$$V_{box} := V_{wall} + V_{BS} = 204.223 \text{ ft}^3$$

Total Volume of Precast Box

$$V_{riser} := n_{riser} \cdot (A_{riser} - A_{hole}) \cdot D_{riser} = 126 \text{ ft}^3$$

Volume of Risers

$$V_{cover} := (A_{riser} - A_{r,top}) \cdot t_{r,top} = 9.707 \text{ ft}^3$$

Volume of Riser Cover



Forces

Concrete Weight

$$W_{box} := \gamma_{conc} \cdot V_{box} = 30.633 \text{ kip} \quad \text{Weight of precast box}$$

$$W_{TS} := \gamma_{conc} \cdot V_{TS} = 8 \text{ kip} \quad \text{Weight of top slab}$$

$$W_{riser} := \gamma_{conc} \cdot V_{riser} = 18.9 \text{ kip} \quad \text{Weight of risers}$$

$$W_{cover} := \gamma_{conc} \cdot V_{cover} = 1.456 \text{ kip} \quad \text{Weight of riser cover}$$

$$W_{conc} := W_{box} + W_{TS} + W_{riser} + W_{cover} = 58.99 \text{ kip} \quad \text{Total Concrete Weight}$$

Soil Weight

$$V_{soil} := (X_{TS} \cdot Y_{TS} - A_{riser}) \cdot (EL_{FG} - EL_{t,TS}) = 869.141 \text{ ft}^3 \quad \text{Volume of Soil over Box}$$

$$W_{soil} := V_{soil} \cdot \gamma_{soil} = 97.344 \text{ kip} \quad \text{Weight of Soil over Box}$$

Buoyancy Force

$$offset_{TS} := EL_{WSE} - EL_{b,TS} = 2.92 \text{ in} \quad \text{Depth of top slab submerged in water}$$

$$V_{sub,TS} := X_{TS} \cdot Y_{TS} \cdot offset_{TS} = 21.197 \text{ ft}^3 \quad \text{volume of water displaced @ bot of top slab}$$

$$V_{sub,box} := X_{BS} \cdot Y_{BS} \cdot (D_{BS} + D_B) = 762.222 \text{ ft}^3 \quad \text{volume of water displaced from junction box}$$

$$W_{sub,TS} := \gamma_w \cdot V_{sub,TS} = 1.323 \text{ kip} \quad \text{weight of water displaced @ bot of top slab}$$

$$V_{sub} := V_{sub,TS} + V_{sub,box} = 783.419 \text{ ft}^3 \quad \text{total volume of water displaced}$$

$$W_{sub} := \gamma_w \cdot V_{sub} = 48.885 \text{ kip} \quad \text{total weight of water displaced}$$



Total System Equilibrium

$$F_{total1} := W_{conc} + W_{soil} - W_{sub} = 107.448 \text{ kip} \quad \text{Assuming Junction Box is not filled with water.}$$

$$\text{if } (F_{total1} > 0, \text{“No Uplift, OK”}, \text{“Uplift, NG”}) = \text{“No Uplift, OK”}$$

$$F_{total2} := W_{conc} + W_{soil} = 156.333 \text{ kip} \quad \text{Assuming Junction Box is filled with water.}$$

$$\text{if } (F_{total2} > 0, \text{“No Uplift, OK”}, \text{“Uplift, NG”}) = \text{“No Uplift, OK”}$$

Force at Top Slab Joint

$$F_{TS1} := (W_{conc} - W_{box}) + W_{soil} - W_{sub.TS} = 124.377 \text{ kip}$$

$$\text{if } (F_{TS1} > 0, \text{“No Uplift, OK”}, \text{“Uplift, NG”}) = \text{“No Uplift, OK”}$$

Force at Riser 1 Joint

$$F_{r1} := (W_{cover} + W_{riser}) = 20.356 \text{ kip}$$

$$\text{if } (F_{r1} > 0, \text{“No Uplift, OK”}, \text{“Uplift, NG”}) = \text{“No Uplift, OK”}$$

Force at Riser 2 Joint

$$F_{r2} := W_{cover} + \frac{W_{riser}}{n_{riser}} = 10.906 \text{ kip}$$

$$\text{if } (F_{r2} > 0, \text{“No Uplift, OK”}, \text{“Uplift, NG”}) = \text{“No Uplift, OK”}$$

Force at Top Riser Joint

$$F_{top} := W_{cover} = 1.456 \text{ kip}$$

$$\text{if } (F_{top} > 0, \text{“No Uplift, OK”}, \text{“Uplift, NG”}) = \text{“No Uplift, OK”}$$



Page 8 of 12



Geometry

$$\text{offset} := -3.5 \text{ in}$$

Bot of Pipe to Top of Base Slab Elev

$$X_B := 8 \text{ ft}$$

$$Y_B := 8 \text{ ft}$$

$$D_B := 8 \text{ ft}$$

Junction Box Dimensions

$$W_B := 8 \text{ in}$$

Junction Box Wall Thickness

$$D_{BS} := 9 \text{ in}$$

Base Slab Thickness

$$D_{TS} := 9 \text{ in}$$

Top Slab Thickness

$$X_{BS} := X_B + 2 \cdot W_B = 112 \text{ in} \quad Y_{BS} := Y_B + 2 \cdot W_B = 112 \text{ in}$$

Base Slab Widths

$$X_{TS} := X_B + 2 \cdot W_B = 112 \text{ in} \quad Y_{TS} := Y_B + 2 \cdot W_B = 112 \text{ in}$$

Top Slab Widths

$$x_{riser} := 4 \text{ ft}$$

$$y_{riser} := 4 \text{ ft}$$

$$D_{riser} := 2.5 \text{ ft}$$

Riser Dimensions

$$t_{riser} := 6 \text{ in}$$

Riser Wall Thickness

$$n_{riser} := 1$$

Number of Risers

$$A_{riser} := (x_{riser} + 2 \cdot t_{riser}) \cdot (y_{riser} + 2 \cdot t_{riser}) = 25 \text{ ft}^2$$

Riser Area

$$A_{hole} := x_{riser} \cdot y_{riser} = 16 \text{ ft}^2$$

Riser Hole Area @ Box Top Slab

$$t_{r.top} := 6 \text{ in}$$

Riser Cover Thickness

$$d_{r.top} := 32 \text{ in}$$

Riser Cover Opening Diameter

$$A_{r.top} := \pi \cdot (0.5 \cdot d_{r.top})^2$$

Riser Cover Opening Area



Elevations

$$EL_{WSE} = 93 \text{ ft}$$

Recall Water Seasonal Elevation

$$EL_{riser} := 96 \text{ ft}$$

Top of Riser Elevation

$$EL_{FG} := EL_{riser} - 6 \text{ in}$$

Finished Grade Elevation - to be assumed 6 in below top of riser cover

$$EL_{inv} := 84.75 \text{ ft}$$

Pipe Invert Elevation

$$EL_{b.BS} := EL_{inv} - t_{72} - offset - D_{BS} = 83.5 \text{ ft}$$

Bottom of Base Slab Elevation

$$EL_{t.BS} := EL_{b.BS} + D_{BS} = 84.25 \text{ ft}$$

Top of Base Slab Elevation

$$EL_{b.TS} := EL_{t.BS} + D_B = 92.25 \text{ ft}$$

Bottom of Top Slab Elevation

$$EL_{t.TS} := EL_{b.TS} + D_{TS} = 93 \text{ ft}$$

Top of Top Slab Elevation

$$EL_{riser1} := EL_{t.TS} + D_{riser} = 95.5 \text{ ft}$$

Elevation at top of riser 1

Concrete Volume

$$V_{BS} := D_{BS} \cdot X_{BS} \cdot Y_{BS} = 65.333 \text{ ft}^3$$

Volume of Base Slab

$$A_{TS} := X_{TS} \cdot Y_{TS} - A_{hole}$$

Area of top slab

$$V_{TS} := D_{TS} \cdot (A_{TS}) = 53.333 \text{ ft}^3$$

Volume of Top Slab

$$V_{wall.EW} := 2 \cdot (X_{TS} \cdot D_B - A_{72}) \cdot W_B = 39.334 \text{ ft}^3$$

Volume of E & W Walls

$$V_{wall.NS} := (2 \cdot X_{TS} \cdot D_B - A_{30}) \cdot W_B = 93.738 \text{ ft}^3$$

Volume of N & S Walls

$$V_{wall} := V_{wall.EW} + V_{wall.NS} = 133.072 \text{ ft}^3$$

Total Volume of Walls

$$V_{box} := V_{wall} + V_{BS} = 198.406 \text{ ft}^3$$

Total Volume of Precast Box

$$V_{riser} := n_{riser} \cdot (A_{riser} - A_{hole}) \cdot D_{riser} = 22.5 \text{ ft}^3$$

Volume of Risers

$$V_{cover} := (A_{riser} - A_{r.top}) \cdot t_{r.top} = 9.707 \text{ ft}^3$$

Volume of Riser Cover



Forces

Concrete Weight

$$W_{box} := \gamma_{conc} \cdot V_{box} = 29.761 \text{ kip} \quad \text{Weight of precast box}$$

$$W_{TS} := \gamma_{conc} \cdot V_{TS} = 8 \text{ kip} \quad \text{Weight of top slab}$$

$$W_{riser} := \gamma_{conc} \cdot V_{riser} = 3.375 \text{ kip} \quad \text{Weight of risers}$$

$$W_{cover} := \gamma_{conc} \cdot V_{cover} = 1.456 \text{ kip} \quad \text{Weight of riser cover}$$

$$W_{conc} := W_{box} + W_{TS} + W_{riser} + W_{cover} = 42.592 \text{ kip} \quad \text{Total Concrete Weight}$$

Soil Weight

$$V_{soil} := (X_{TS} \cdot Y_{TS} - A_{riser}) \cdot (EL_{FG} - EL_{t,TS}) = 155.278 \text{ ft}^3 \quad \text{Volume of Soil over Box}$$

$$W_{soil} := V_{soil} \cdot \gamma_{soil} = 17.391 \text{ kip} \quad \text{Weight of Soil over Box}$$

Buoyancy Force

$$offset_{TS} := EL_{WSE} - EL_{b,TS} = 9 \text{ in} \quad \text{Depth of top slab submerged in water}$$

$$V_{sub,TS} := X_{TS} \cdot Y_{TS} \cdot offset_{TS} = 65.333 \text{ ft}^3 \quad \text{volume of water displaced @ bot of top slab}$$

$$V_{sub,box} := X_{BS} \cdot Y_{BS} \cdot (D_{BS} + D_B) = 762.222 \text{ ft}^3 \quad \text{volume of water displaced from junction box}$$

$$W_{sub,TS} := \gamma_w \cdot V_{sub,TS} = 4.077 \text{ kip} \quad \text{weight of water displaced @ bot of top slab}$$

$$V_{sub} := V_{sub,TS} + V_{sub,box} = 827.556 \text{ ft}^3 \quad \text{total volume of water displaced}$$

$$W_{sub} := \gamma_w \cdot V_{sub} = 51.639 \text{ kip} \quad \text{total weight of water displaced}$$



Total System Equilibrium

$$F_{total1} := W_{conc} + W_{soil} - W_{sub} = 8.344 \text{ kip} \quad \text{Assuming Junction Box is not filled with water.}$$

$$\text{if } (F_{total1} > 0, \text{“No Uplift, OK”}, \text{“Uplift, NG”}) = \text{“No Uplift, OK”}$$

$$F_{total2} := W_{conc} + W_{soil} = 59.983 \text{ kip} \quad \text{Assuming Junction Box is filled with water.}$$

$$\text{if } (F_{total2} > 0, \text{“No Uplift, OK”}, \text{“Uplift, NG”}) = \text{“No Uplift, OK”}$$

Force at Top Slab Joint

$$F_{TS1} := (W_{conc} - W_{box}) + W_{soil} - W_{sub.TS} = 26.145 \text{ kip}$$

$$\text{if } (F_{TS1} > 0, \text{“No Uplift, OK”}, \text{“Uplift, NG”}) = \text{“No Uplift, OK”}$$

Force at Riser Joint

$$F_{r1} := W_{cover} + W_{riser} = 4.831 \text{ kip}$$

$$\text{if } (F_{r1} > 0, \text{“No Uplift, OK”}, \text{“Uplift, NG”}) = \text{“No Uplift, OK”}$$

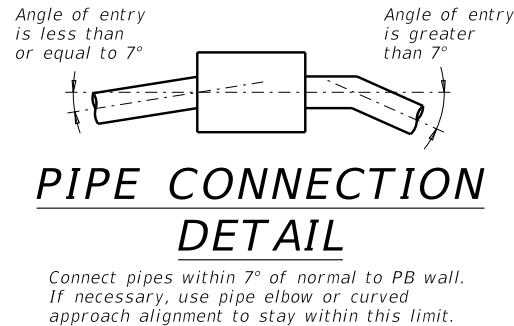
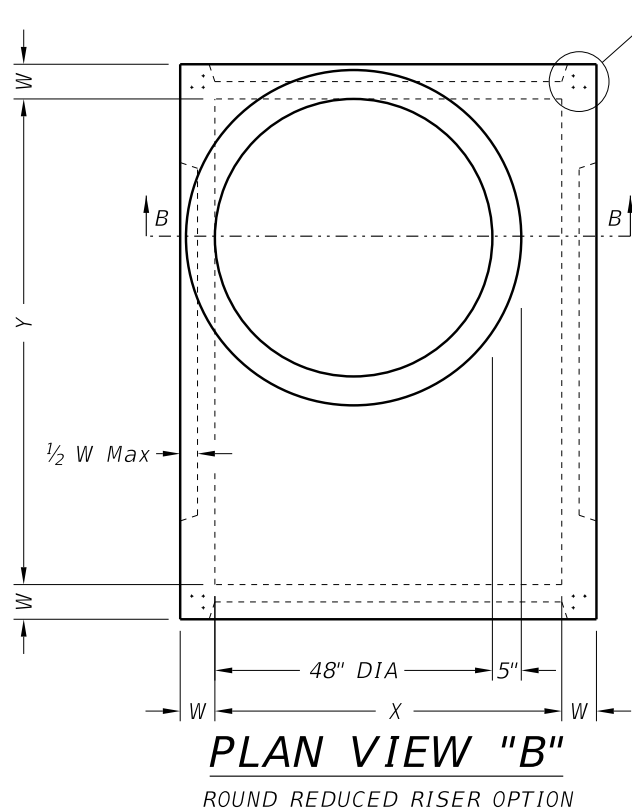
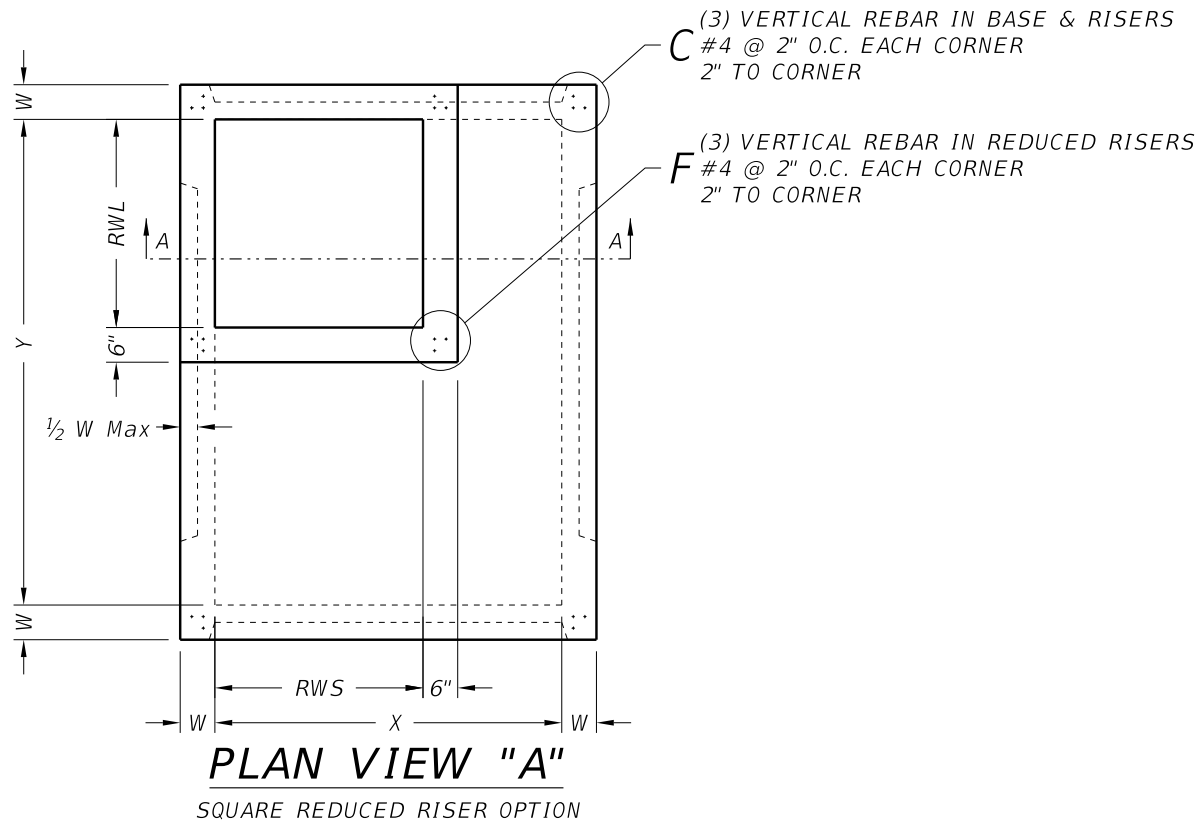
Force at Top Riser Joint

$$F_{top} := W_{cover} = 1.456 \text{ kip}$$

$$\text{if } (F_{top} > 0, \text{“No Uplift, OK”}, \text{“Uplift, NG”}) = \text{“No Uplift, OK”}$$

DISCLAIMER:
The use of this standard is governed by the "Texas Engineering Practice Act." No warranty of any kind is made by TxDOT for any purpose whatsoever.
TxDOT assumes no responsibility for the conversion of this standard to other formats or for incorrect results or damages resulting from its use.

DATE:
FILE:



FABRICATION NOTES:

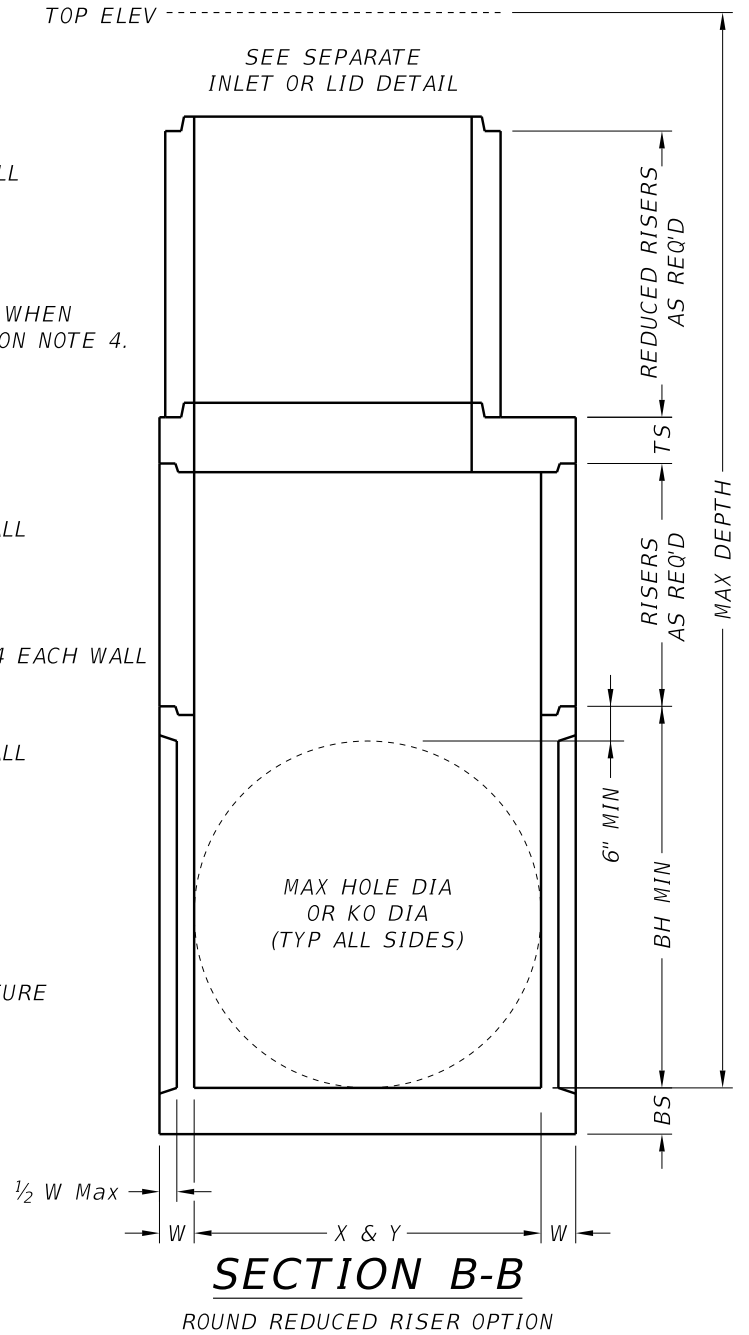
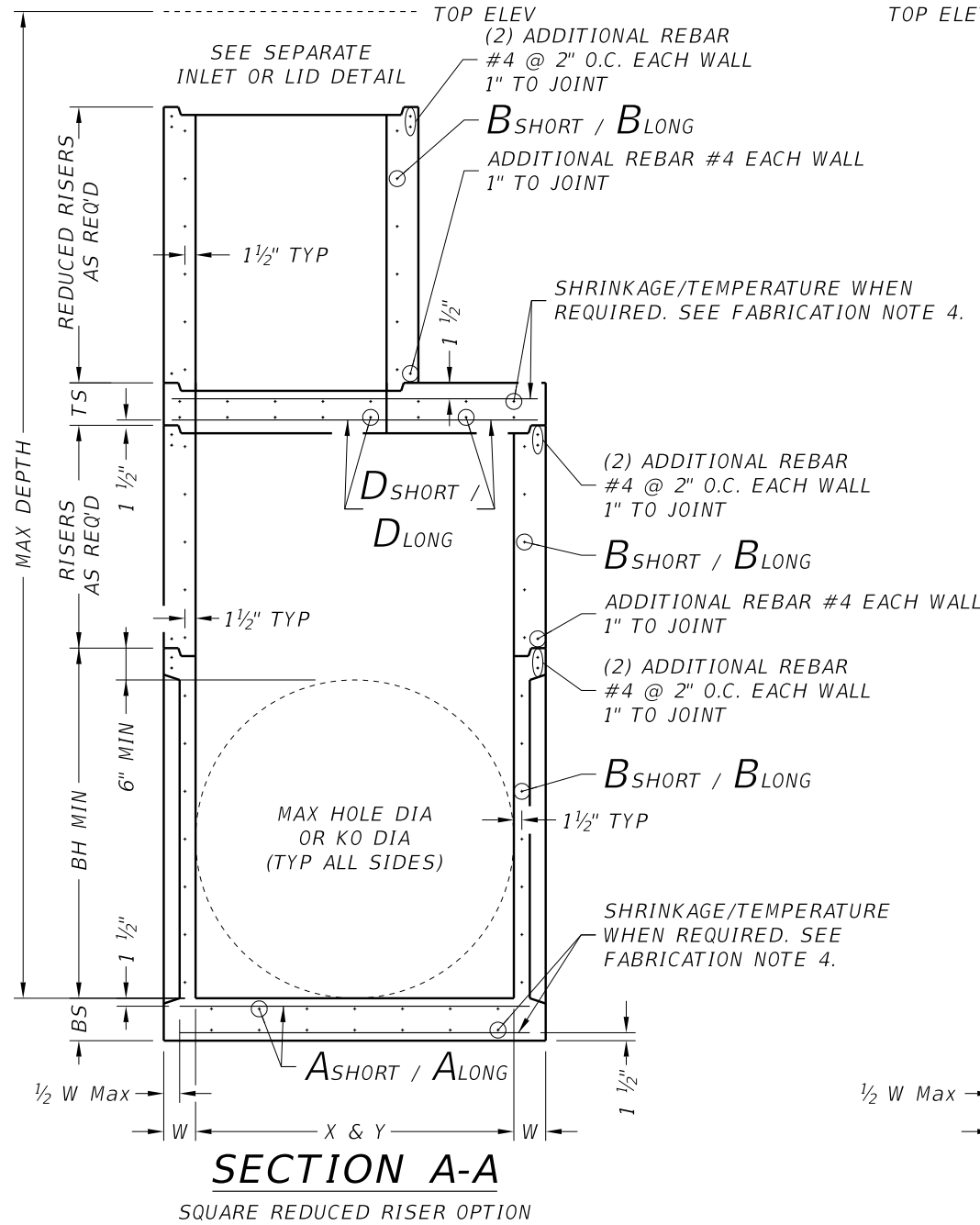
1. Provide Class "H" concrete in accordance with Item 421 and having a minimum compressive strength of 5,000 psi.
2. Provide Grade 60 reinforcing steel or equivalent area of WWR.
3. Provide typical clear cover of 1 1/2" to reinforcing steel at interior or exterior walls.
4. Walls or slabs with a thickness of 8" or greater require shrinkage and temperature reinforcing steel. Provide steel area = 0.11 in²/ft each way.
5. No substitution is allowed for vertical and horizontal #4 bars in corners.
6. Manufacture base and risers to nearest 3" increment.
7. Design tongue and groove joints for full closure on both shoulders. Minimum spigot depth is 3/4".
8. Provide lifting devices in conformance with Manufacturer's recommendations.
9. See sheet PDD for sizes, dimensions, and reinforcing steel not shown.

INSTALLATION NOTES:


1. If required elsewhere. Inverts (benching) to be provided by Contractor. Concrete or mortar used for invert is subsidiary to specified inlet or manhole.
2. Seal tongue and groove joints with preformed or bulk mastic in conformance with Manufacturer's recommendations. Tongue and groove joints may be grouted no more than 1" between each section, or 1/2 the joint depth, whichever is greater.
3. Do not grout rubber gasket joints without Manufacturer's recommendation.
4. For rigid pipe, cut hole in thin wall panel (KO) 4" Max, 2" Min larger than pipe OD.
5. For flexible pipe, consult boot/seal Manufacturer's specification for placement tolerance and hole size. Center pipe in hole and install boot/seal per Manufacturer's specification.

GENERAL NOTES:

1. Precast Base consists of base slab, base unit, risers (as required), reducing slab (as required), and reduced risers (as required). See sheet PDD for sizes.
2. Designed according to ASTM C913.
3. Payment for precast base is subsidiary to the specified inlet, per Item 465, "Junction Boxes, Manholes, and Inlets."



Cover dimensions are clear dimensions, unless noted otherwise.

HL93 LOADING				
 Texas Department of Transportation			Bridge Division Standard	
PRECAST BASE				
PB				
FILE: CD-PB-20.dgn	DN: TxDOT	CK: TxDOT	DW: TxDOT	CK: TxDOT
©TxDOT February 2020	CONT	SECT	JOB	HIGHWAY
REVISIONS				
	DIST	COUNTY		SHEET NO.



SUBMITTAL

No. 62-016-0209

SPEC SECTION: 476

TITLE: Jack & Bore Operations and Procedures (72" LHPP)
PULICE PROJECT: 62-016-HCRMA 365 TOLL
CSJ: 0921-02-368

DATE: 9/4/2024
RESPONSE REQUIRED BY: 9/11/2024

TO: Attn: Ramon Navarro, P.E., C.F.M.
Chief Construction Engineer
Hidalgo County Regional Mobility Authority
203 W. Newcombe Avenue
Pharr, TX 78577

RECEIVED FROM:

IOC

SENT TO:

Ramon Navarro, P.E., C.F.M.

REV No.	DESCRIPTION	RECEIVED	SENT	RETURNED
0	Jack & Bore Operations and Procedures (72" LHPP)	9/4/2024	9/4/2024	

COMMENTS: Find attached Electro-Hi jack & bore operations and procedures.

RECEIVED
By Ramon Navarro IV, P.E. at 7:34 pm, Sep 04, 2024

REQUESTED BY: Luis Salinas

DATE: 9/4/2024

SUBMITTAL SIGNED BY:

DATE: _____

Please provide safety contingency plan.

SUBMITTAL No. 62-016-0209

- ☐ A) FURNISH AS SUBMITTED
☐ B) FURNISH AS NOTED
☐ C) REVISE AND RESUBMIT
☐ D) ACCEPTED FOR PROGRESS ONLY
☒ E) REVIEW NOT REQUIRED



Review and approval is for compatibility with design concept and general conformance with the contract documents. Review and approval does not extend to means, methods, techniques, sequences, or procedures of construction or safety precautions or programs. Review and approval shall not relieve Contractor from responsibility for complying with the requirements of the Contract Documents.

BY: Dan Paredes **DATE:** 9/10/2024

PROJECT #: CSJ: 0921-02-368

PROJECT NAME: HCRMA 365 TOLL

**Equipment;**

American Auger 48/54/900 machine with tracks, and pusher
Compressor, generator, wind fans, air hammers, small digging equipment

Operations;

Prepare bore pit at the designed elevation,
Stair ground conditions for proper safety digging operations,
Set-up ladders to proper safety conditions,
Set tracks and machine,
Set RCP Pipe in position,
Set-up air ventilation within rcp pipe,
Set-up small digging equipment,
Dig in rcp pipe with small digging equipment ,
Dig 2-3 in front of rcp pipe,
Clear loose dirt, and push rcp pipe,
Connect and coat or install proper joint compounds or gaskets,
Clear machine after push procedure and continue to dig,
Make sure personnel have ventilations and air,
Make sure personnel take proper rests between pushes,
Alternate personnel within rcp pipe,
Continue to push and continue procedures to complete project,

Mobilization:

Equipment to be taken on 8/30/2024,
Begin pit for machine,

All this work is tentative because of weather and clearance and availability of starting Toll 365 Project.

We look forward in assisting you with these and other future projects. We have the personnel, equipment and experience to complete this projects in a timely manner.

Best Regards,

Cecilio Cavazos
Electro-Hi, LLC
956-434-1466
electrohi@sbcglobal.net

EQUIPMENT SPECIFICATIONS LIBRARY

BASIC MODEL INFORMATION

Manufacturer: American Augers

Model: 48-900S

[View Manufacturers](#)

[View Models](#)

ADDITIONAL INFO

POWER TRAIN

Engine Type: Deutz BF4M1013 turbo diesel water cooled with electric start

Rating: 106HP (79kw) @ 230 RPM continuous duty

Torque: 342 ft-lbs (463Nm) @ 1400 RPM

Fuel capacity: 15 US gallons (55 litres)

Clutch: dry, spring applied 13 inch (330mm) diameter

Transmission ratios: Spicer five speed constant mesh

1st gear: 7.17:1

2nd gear: 4.21:1

3rd gear: 2.54:1

4th gear: 1.45:1

5th gear: 1.00:1

Reverse: 7.17:1

Gearbox ratio: 54.2:1

Auger drive: 4 inch hex (101.2mm)

Working range: 12 to 48 inch (305 to 1219mm) casing diameter

TORQUE AND SPEED (max)

1st gear: 116,104 ft lb (157,437Nm), 6 RPM

2nd gear: 68,173 ft lb (92,442Nm), 10 RPM

3rd gear: 41,130 ft lb (55,773 Nm), 17 RPM

4th gear: 23,480 ft lb (31,839Nm), 29 RPM

5th gear: 16,193 ft lb (21,958Nm), 42 RPM

Reverse: 116,104 ft lb (157,437Nm), 6 RPM

HYDRAULIC SYSTEM

Pressure: 6,000 PSI (41,370 kPa)

Thrust (max): 900,000 lb (4004 kn)



Pump type: Axial piston with load sensing constant speed or pressure control
Output: 38 GPM (144 lit/min)
Aud. Hyd. Pump: Gear type, 9 GPM (34 lit/min)
Cylinders: Three 8 inch bore x 35 inch stroke (203.2 x 889 mm)
Filter suction: Screen 149, mesh
Filter return: Replacement element, 10 micron

WEIGHTS

Base ass'y split machine: 7,900 lbs (3585 kg)
Sub frame ass'y split machine: 6,200 lbs (21815 kg)
Casing pusher: 1,200 lbs (545 kg)
Master track: 1,000 lb (454 kg)
Extension track: 2,000 (910 kg)

STANDARD FEATURES

The model 48-900 comes with four base unit hook-roller holddown assemblies, low center line and wide stance to provide stability and to aid in the prevention of machine rollover. The spoil door is spring-loaded to deflect thrown debris. There is an emergency shut down switch at the operators station. Vivid graphics guide proper machine operations. Instruments include: engine tachometer, engine warning lights, hydraulic thrust pressure guage. Tack brake keeps machine from creeping while idling. Quick release hook rollers easily release from track.

This information is provided for informational purposes only. HDD Broker LLC cannot warrant the accuracy or completeness of this information. This information is subject to change by the manufacturer. Some specifications may vary by model year.



HCRMA - US 281 Cage BLVD Irrigation Line Precast JCT Boxes

Description

The following calculation sheet calculates the uplift forces at each joint of the precast junction boxes. Two different scenarios were considered, junction box 1 & 5.

The following forces are considered:

- Soil Dead Load (+)
- Concrete Weight Dead Load (+)
- Buoyancy Forces (-)

input

Data input

check

Uplift Check

DRAFT



General Site Data

$$\gamma_{soil} := 112 \text{ pcf}$$

Soil Unit Weight - dry soil

$$\gamma_w := 62.4 \text{ pcf}$$

Water Unit Weight

$$\gamma_{conc} := 150 \text{ pcf}$$

Structural Concrete Unit Weight

$$EL_{WSE} := 93 \text{ ft}$$

Water Seasonal Elevation

LPILE Parameters										
Bridge	Boreholes	Borehole Elevation	Groundwater Elevation	Elevation	LPILE Soil type	Effective Unit weight	Cohesion (Su)	Friction Angle	Soil Strain Factor	Subgrade Modulus (k)
-	-	ft	ft	ft	-	pcf	psf	°	ϵ_{50}	pci
Jackson Road	B-6, B-7	100	65	100 to 90	Stiff Clay without Free Water	112	1500	---	0.008	525
				90 to 85	Stiff Clay without Free Water	58	3000	---	0.006	815
				85 to 80	Stiff Clay without Free Water	46	---	29	---	55
				75 to 65	Sand	48	---	30	---	60
				65 to 55	Sand	66	---	35	---	110
				55 to 15	Sand	48	---	30	---	60
US 281	B-34, B-36	96	77	96 to 82	Stiff Clay without Free Water	112	1500	---	0.008	525
				82 to 70	Sand	43	---	28	---	45
				70 to 40	Sand	58	---	34	---	100
				40 to 15	Sand	48	---	30	---	60

72" Pipe

$$ID_{72} := 72 \text{ in}$$

Inside Diameter

$$t_{72} := 9.5 \text{ in}$$

Pipe Wall Thickness

$$OD_{72} := ID_{72} + 2 \cdot t_{72} = 91 \text{ in}$$

Outside Diameter

$$A_{72} := \pi \cdot (0.5 \cdot OD_{72})^2 = 6503.882 \text{ in}^2$$

Pipe Area - outside diameter

30" Pipe

$$ID_{30} := 30 \text{ in}$$

Inside Diameter

$$t_{30} := 5 \text{ in}$$

Pipe Wall Thickness

$$OD_{30} := ID_{30} + 2 \cdot t_{30} = 40 \text{ in}$$

Outside Diameter

$$A_{30} := \pi \cdot (0.5 \cdot OD_{30})^2 = 1256.637 \text{ in}^2$$

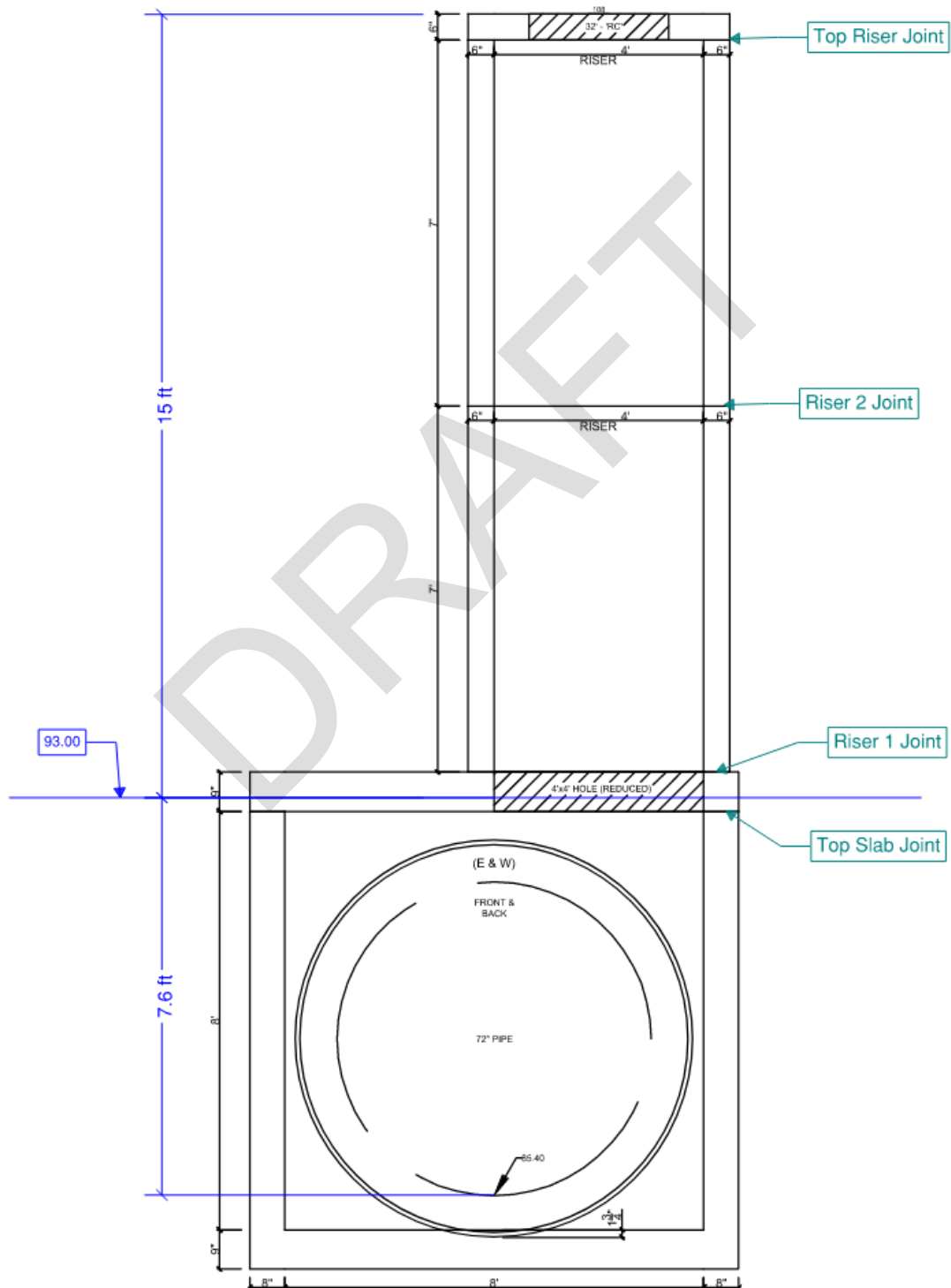
Pipe Area - outside diameter



Junction Box #1

Sta 1004 + 50.00
72" Pipe Running E-W

Water Seasonal Elevation = 93'
Top Elevation = 108'





Geometry

$$\text{offset} := -2.5 \text{ in}$$

Bot of Pipe to Top of Base Slab Elev

$$X_B := 8 \text{ ft}$$

$$Y_B := 8 \text{ ft}$$

$$D_B := 8 \text{ ft}$$

Junction Box Dimensions

$$W_B := 8 \text{ in}$$

Junction Box Wall Thickness

$$D_{BS} := 9 \text{ in}$$

Base Slab Thickness

$$D_{TS} := 9 \text{ in}$$

Top Slab Thickness

$$X_{BS} := X_B + 2 \cdot W_B = 112 \text{ in} \quad Y_{BS} := Y_B + 2 \cdot W_B = 112 \text{ in}$$

Base Slab Widths

$$X_{TS} := X_B + 2 \cdot W_B = 112 \text{ in} \quad Y_{TS} := Y_B + 2 \cdot W_B = 112 \text{ in}$$

Top Slab Widths

$$x_{riser} := 4 \text{ ft}$$

$$y_{riser} := 4 \text{ ft}$$

$$D_{riser} := 7 \text{ ft}$$

Riser Dimensions

$$t_{riser} := 6 \text{ in}$$

Riser Wall Thickness

$$n_{riser} := 2$$

Number of Risers

$$A_{riser} := (x_{riser} + 2 \cdot t_{riser}) \cdot (y_{riser} + 2 \cdot t_{riser}) = 25 \text{ ft}^2$$

Outside Riser Area

$$A_{hole} := x_{riser} \cdot y_{riser} = 16 \text{ ft}^2$$

Riser Hole Area @ Box Top Slab

$$t_{r.top} := 6 \text{ in}$$

Riser Cover Thickness

$$d_{r.top} := 32 \text{ in}$$

Riser Cover Opening Diameter

$$A_{r.top} := \pi \cdot (0.5 \cdot d_{r.top})^2$$

Riser Cover Opening Area



Elevations

$$EL_{WSE} = 93 \text{ ft}$$

Recall Water Seasonal Elevation

$$EL_{riser} := 108 \text{ ft}$$

Top of Riser Cover Elevation

$$EL_{FG} := EL_{riser} - 6 \text{ in}$$

Finished Grade Elevation - to be assumed 6 in below top of riser cover

$$EL_{inv} := 85.34 \text{ ft}$$

Pipe Invert Elevation

$$EL_{b,BS} := EL_{inv} - t_{72} - offset - D_{BS} = 84.007 \text{ ft}$$

Bottom of Base Slab Elevation

$$EL_{t,BS} := EL_{b,BS} + D_{BS} = 84.757 \text{ ft}$$

Top of Base Slab Elevation

$$EL_{b,TS} := EL_{t,BS} + D_B = 92.757 \text{ ft}$$

Bottom of Top Slab Elevation

$$EL_{t,TS} := EL_{b,TS} + D_{TS} = 93.507 \text{ ft}$$

Top of Top Slab Elevation

$$EL_{riser1} := EL_{t,TS} + D_{riser} = 100.507 \text{ ft}$$

Elevation at top of riser 1

$$EL_{riser2} := EL_{t,TS} + 2 D_{riser} = 107.507 \text{ ft}$$

Elevation at top of riser 2

Concrete Volume

$$V_{BS} := D_{BS} \cdot X_{BS} \cdot Y_{BS} = 65.333 \text{ ft}^3$$

Volume of Base Slab

$$A_{TS} := X_{TS} \cdot Y_{TS} - A_{hole}$$

Area of top slab

$$V_{TS} := D_{TS} \cdot (A_{TS}) = 53.333 \text{ ft}^3$$

Volume of Top Slab

$$V_{wall,EW} := 2 (X_{TS} \cdot D_B - A_{72}) \cdot W_B = 39.334 \text{ ft}^3$$

Volume of E & W Walls

$$V_{wall,NS} := 2 (X_{TS} \cdot D_B) \cdot W_B = 99.556 \text{ ft}^3$$

Volume of N & S Walls

$$V_{wall} := V_{wall,EW} + V_{wall,NS} = 138.89 \text{ ft}^3$$

Total Volume of Walls

$$V_{box} := V_{wall} + V_{BS} = 204.223 \text{ ft}^3$$

Total Volume of Precast Box

$$V_{riser} := n_{riser} \cdot (A_{riser} - A_{hole}) \cdot D_{riser} = 126 \text{ ft}^3$$

Volume of Risers

$$V_{cover} := (A_{riser} - A_{r,top}) \cdot t_{r,top} = 9.707 \text{ ft}^3$$

Volume of Riser Cover



Forces

Concrete Weight

$$W_{box} := \gamma_{conc} \cdot V_{box} = 30.633 \text{ kip}$$

Weight of precast box

$$W_{TS} := \gamma_{conc} \cdot V_{TS} = 8 \text{ kip}$$

Weight of top slab

$$W_{riser} := \gamma_{conc} \cdot V_{riser} = 18.9 \text{ kip}$$

Weight of risers

$$W_{cover} := \gamma_{conc} \cdot V_{cover} = 1.456 \text{ kip}$$

Weight of riser cover

$$W_{conc} := W_{box} + W_{TS} + W_{riser} + W_{cover} = 58.99 \text{ kip}$$

Total Concrete Weight

Soil Weight

$$V_{soil} := (X_{TS} \cdot Y_{TS} - A_{riser}) \cdot (EL_{FG} - EL_{t,TS}) = 869.141 \text{ ft}^3$$

Volume of Soil over Box

$$W_{soil} := V_{soil} \cdot \gamma_{soil} = 97.344 \text{ kip}$$

Weight of Soil over Box

Buoyancy Force

$$offset_{TS} := EL_{WSE} - EL_{b,TS} = 2.92 \text{ in}$$

Depth of top slab submerged in water

$$V_{sub,TS} := X_{TS} \cdot Y_{TS} \cdot offset_{TS} = 21.197 \text{ ft}^3$$

volume of water displaced @ bot of top slab

$$V_{sub,box} := X_{BS} \cdot Y_{BS} \cdot (D_{BS} + D_B) = 762.222 \text{ ft}^3$$

volume of water displaced from junction box

$$W_{sub,TS} := \gamma_w \cdot V_{sub,TS} = 1.323 \text{ kip}$$

weight of water displaced @ bot of top slab

$$V_{sub} := V_{sub,TS} + V_{sub,box} = 783.419 \text{ ft}^3$$

total volume of water displaced

$$W_{sub} := \gamma_w \cdot V_{sub} = 48.885 \text{ kip}$$

total weight of water displaced



Total System Equilibrium

$$F_{total1} := W_{conc} + W_{soil} - W_{sub} = 107.448 \text{ kip} \quad \text{Assuming Junction Box is not filled with water.}$$

$$\text{if } (F_{total1} > 0, \text{"No Uplift, OK"}, \text{"Uplift, NG"}) = \text{"No Uplift, OK"}$$

$$F_{total2} := W_{conc} + W_{soil} = 156.333 \text{ kip} \quad \text{Assuming Junction Box is filled with water.}$$

$$\text{if } (F_{total2} > 0, \text{"No Uplift, OK"}, \text{"Uplift, NG"}) = \text{"No Uplift, OK"}$$

Force at Top Slab Joint

$$F_{TS1} := (W_{conc} - W_{box}) + W_{soil} - W_{sub.TS} = 124.377 \text{ kip}$$

$$\text{if } (F_{TS1} > 0, \text{"No Uplift, OK"}, \text{"Uplift, NG"}) = \text{"No Uplift, OK"}$$

Force at Riser 1 Joint

$$F_{r1} := (W_{cover} + W_{riser}) = 20.356 \text{ kip}$$

$$\text{if } (F_{r1} > 0, \text{"No Uplift, OK"}, \text{"Uplift, NG"}) = \text{"No Uplift, OK"}$$

Force at Riser 2 Joint

$$F_{r2} := W_{cover} + \frac{W_{riser}}{n_{riser}} = 10.906 \text{ kip}$$

$$\text{if } (F_{r2} > 0, \text{"No Uplift, OK"}, \text{"Uplift, NG"}) = \text{"No Uplift, OK"}$$

Force at Top Riser Joint

$$F_{top} := W_{cover} = 1.456 \text{ kip}$$

$$\text{if } (F_{top} > 0, \text{"No Uplift, OK"}, \text{"Uplift, NG"}) = \text{"No Uplift, OK"}$$

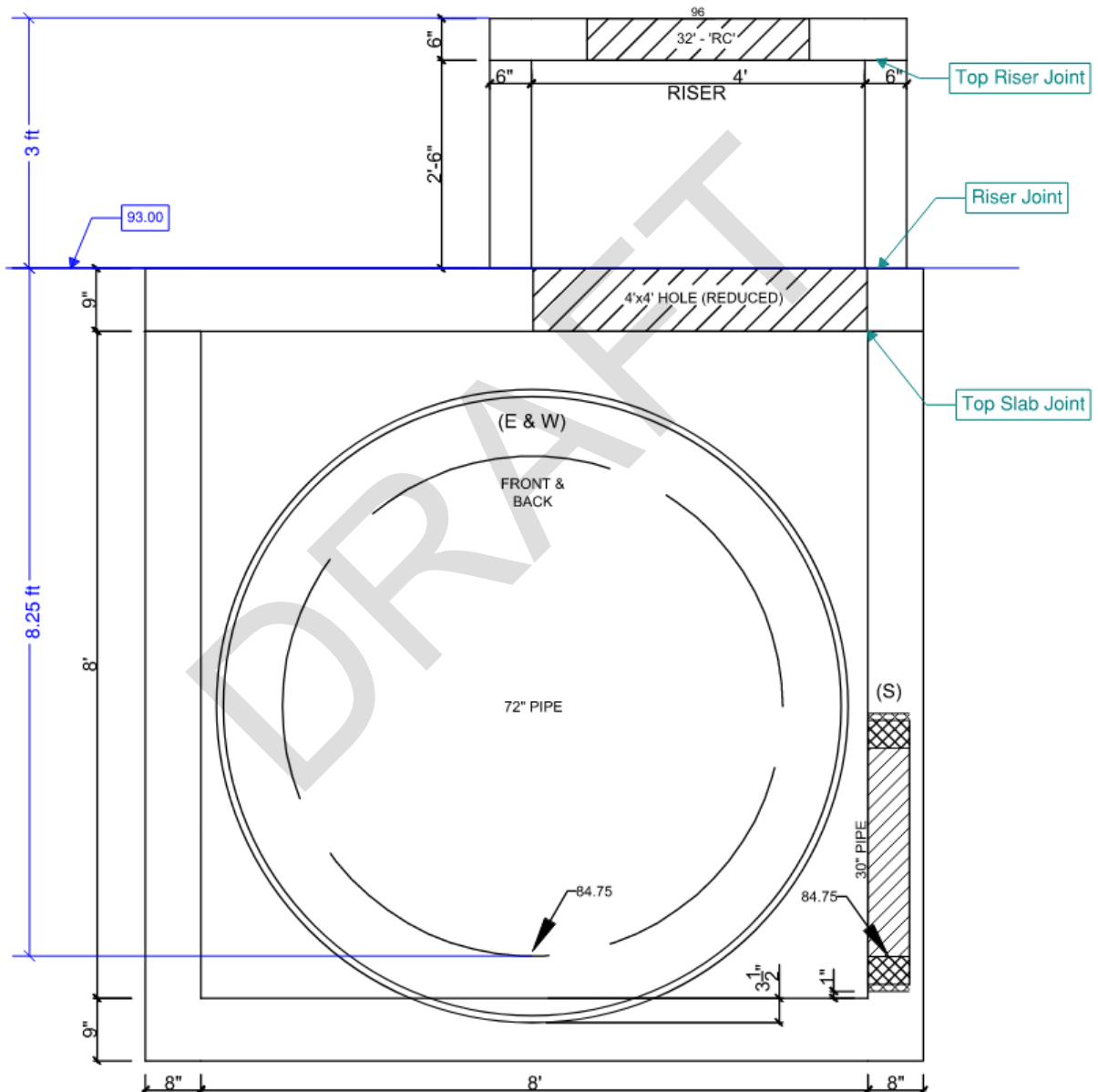
Junction Box #5

Sta 1021 + 25.00

72" Pipe Running East-West

30" Pipe @ South Face

Water Seasonal Elevation = 93'
Top Elevation = 96'





Geometry

$$\text{offset} := -3.5 \text{ in}$$

Bot of Pipe to Top of Base Slab Elev

$$X_B := 8 \text{ ft}$$

$$Y_B := 8 \text{ ft}$$

$$D_B := 8 \text{ ft}$$

Junction Box Dimensions

$$W_B := 8 \text{ in}$$

Junction Box Wall Thickness

$$D_{BS} := 9 \text{ in}$$

Base Slab Thickness

$$D_{TS} := 9 \text{ in}$$

Top Slab Thickness

$$X_{BS} := X_B + 2 \cdot W_B = 112 \text{ in} \quad Y_{BS} := Y_B + 2 \cdot W_B = 112 \text{ in}$$

Base Slab Widths

$$X_{TS} := X_B + 2 \cdot W_B = 112 \text{ in} \quad Y_{TS} := Y_B + 2 \cdot W_B = 112 \text{ in}$$

Top Slab Widths

$$x_{riser} := 4 \text{ ft}$$

$$y_{riser} := 4 \text{ ft}$$

$$D_{riser} := 2.5 \text{ ft}$$

Riser Dimensions

$$t_{riser} := 6 \text{ in}$$

Riser Wall Thickness

$$n_{riser} := 1$$

Number of Risers

$$A_{riser} := (x_{riser} + 2 \cdot t_{riser}) \cdot (y_{riser} + 2 \cdot t_{riser}) = 25 \text{ ft}^2$$

Riser Area

$$A_{hole} := x_{riser} \cdot y_{riser} = 16 \text{ ft}^2$$

Riser Hole Area @ Box Top Slab

$$t_{r.top} := 6 \text{ in}$$

Riser Cover Thickness

$$d_{r.top} := 32 \text{ in}$$

Riser Cover Opening Diameter

$$A_{r.top} := \pi \cdot (0.5 \cdot d_{r.top})^2$$

Riser Cover Opening Area



Elevations

$$EL_{WSE} = 93 \text{ ft}$$

Recall Water Seasonal Elevation

$$EL_{riser} := 96 \text{ ft}$$

Top of Riser Elevation

$$EL_{FG} := EL_{riser} - 6 \text{ in}$$

Finished Grade Elevation - to be assumed 6 in below top of riser cover

$$EL_{inv} := 84.75 \text{ ft}$$

Pipe Invert Elevation

$$EL_{b.BS} := EL_{inv} - t_{72} - offset - D_{BS} = 83.5 \text{ ft}$$

Bottom of Base Slab Elevation

$$EL_{t.BS} := EL_{b.BS} + D_{BS} = 84.25 \text{ ft}$$

Top of Base Slab Elevation

$$EL_{b.TS} := EL_{t.BS} + D_B = 92.25 \text{ ft}$$

Bottom of Top Slab Elevation

$$EL_{t.TS} := EL_{b.TS} + D_{TS} = 93 \text{ ft}$$

Top of Top Slab Elevation

$$EL_{riser1} := EL_{t.TS} + D_{riser} = 95.5 \text{ ft}$$

Elevation at top of riser 1

Concrete Volume

$$V_{BS} := D_{BS} \cdot X_{BS} \cdot Y_{BS} = 65.333 \text{ ft}^3$$

Volume of Base Slab

$$A_{TS} := X_{TS} \cdot Y_{TS} - A_{hole}$$

Area of top slab

$$V_{TS} := D_{TS} \cdot (A_{TS}) = 53.333 \text{ ft}^3$$

Volume of Top Slab

$$V_{wall.EW} := 2 \cdot (X_{TS} \cdot D_B - A_{72}) \cdot W_B = 39.334 \text{ ft}^3$$

Volume of E & W Walls

$$V_{wall.NS} := (2 \cdot X_{TS} \cdot D_B - A_{30}) \cdot W_B = 93.738 \text{ ft}^3$$

Volume of N & S Walls

$$V_{wall} := V_{wall.EW} + V_{wall.NS} = 133.072 \text{ ft}^3$$

Total Volume of Walls

$$V_{box} := V_{wall} + V_{BS} = 198.406 \text{ ft}^3$$

Total Volume of Precast Box

$$V_{riser} := n_{riser} \cdot (A_{riser} - A_{hole}) \cdot D_{riser} = 22.5 \text{ ft}^3$$

Volume of Risers

$$V_{cover} := (A_{riser} - A_{r.top}) \cdot t_{r.top} = 9.707 \text{ ft}^3$$

Volume of Riser Cover

Forces

Concrete Weight

$$W_{box} := \gamma_{conc} \cdot V_{box} = 29.761 \text{ kip}$$

Weight of precast box

$$W_{TS} := \gamma_{conc} \cdot V_{TS} = 8 \text{ kip}$$

Weight of top slab

$$W_{riser} := \gamma_{conc} \cdot V_{riser} = 3.375 \text{ kip}$$

Weight of risers

$$W_{cover} := \gamma_{conc} \cdot V_{cover} = 1.456 \text{ kip}$$

Weight of riser cover

$$W_{conc} := W_{box} + W_{TS} + W_{riser} + W_{cover} = 42.592 \text{ kip}$$

Total Concrete Weight

Soil Weight

$$V_{soil} := (X_{TS} \cdot Y_{TS} - A_{riser}) \cdot (EL_{FG} - EL_{t,TS}) = 155.278 \text{ ft}^3$$

Volume of Soil over Box

$$W_{soil} := V_{soil} \cdot \gamma_{soil} = 17.391 \text{ kip}$$

Weight of Soil over Box

Buoyancy Force

$$offset_{TS} := EL_{WSE} - EL_{b,TS} = 9 \text{ in}$$

Depth of top slab submerged in water

$$V_{sub,TS} := X_{TS} \cdot Y_{TS} \cdot offset_{TS} = 65.333 \text{ ft}^3$$

volume of water displaced @ bot of top slab

$$V_{sub,box} := X_{BS} \cdot Y_{BS} \cdot (D_{BS} + D_B) = 762.222 \text{ ft}^3$$

volume of water displaced from junction box

$$W_{sub,TS} := \gamma_w \cdot V_{sub,TS} = 4.077 \text{ kip}$$

weight of water displaced @ bot of top slab

$$V_{sub} := V_{sub,TS} + V_{sub,box} = 827.556 \text{ ft}^3$$

total volume of water displaced

$$W_{sub} := \gamma_w \cdot V_{sub} = 51.639 \text{ kip}$$

total weight of water displaced



Total System Equilibrium

$$F_{total1} := W_{conc} + W_{soil} - W_{sub} = 8.344 \text{ kip}$$

Assuming Junction Box is not filled with water.

$$\text{if } (F_{total1} > 0, \text{“No Uplift, OK”}, \text{“Uplift, NG”}) = \text{“No Uplift, OK”}$$

$$F_{total2} := W_{conc} + W_{soil} = 59.983 \text{ kip}$$

Assuming Junction Box is filled with water.

$$\text{if } (F_{total2} > 0, \text{“No Uplift, OK”}, \text{“Uplift, NG”}) = \text{“No Uplift, OK”}$$

Force at Top Slab Joint

$$F_{TS1} := (W_{conc} - W_{box}) + W_{soil} - W_{sub.TS} = 26.145 \text{ kip}$$

$$\text{if } (F_{TS1} > 0, \text{“No Uplift, OK”}, \text{“Uplift, NG”}) = \text{“No Uplift, OK”}$$

Force at Riser Joint

$$F_{r1} := W_{cover} + W_{riser} = 4.831 \text{ kip}$$

$$\text{if } (F_{r1} > 0, \text{“No Uplift, OK”}, \text{“Uplift, NG”}) = \text{“No Uplift, OK”}$$

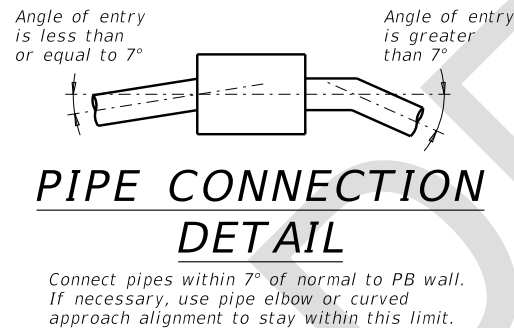
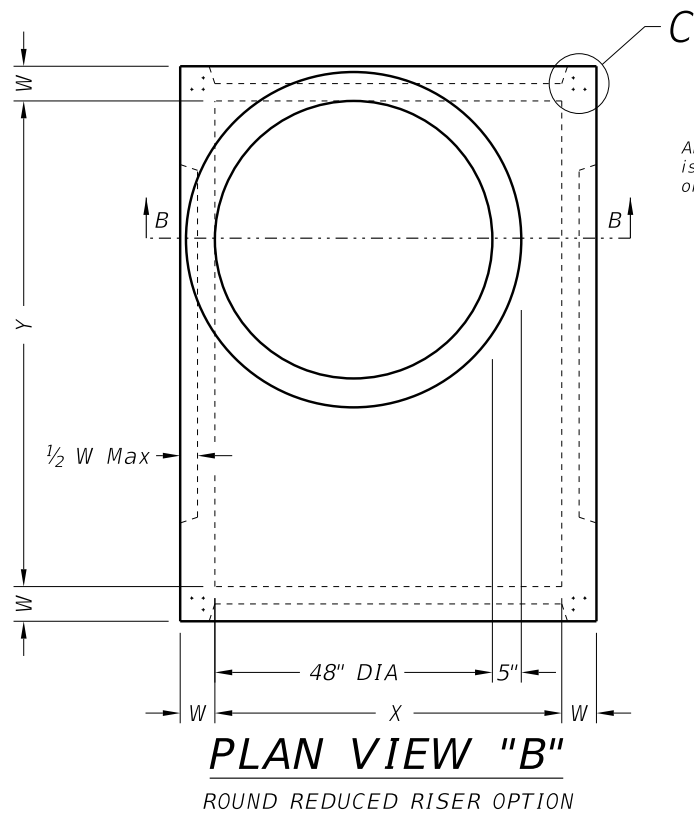
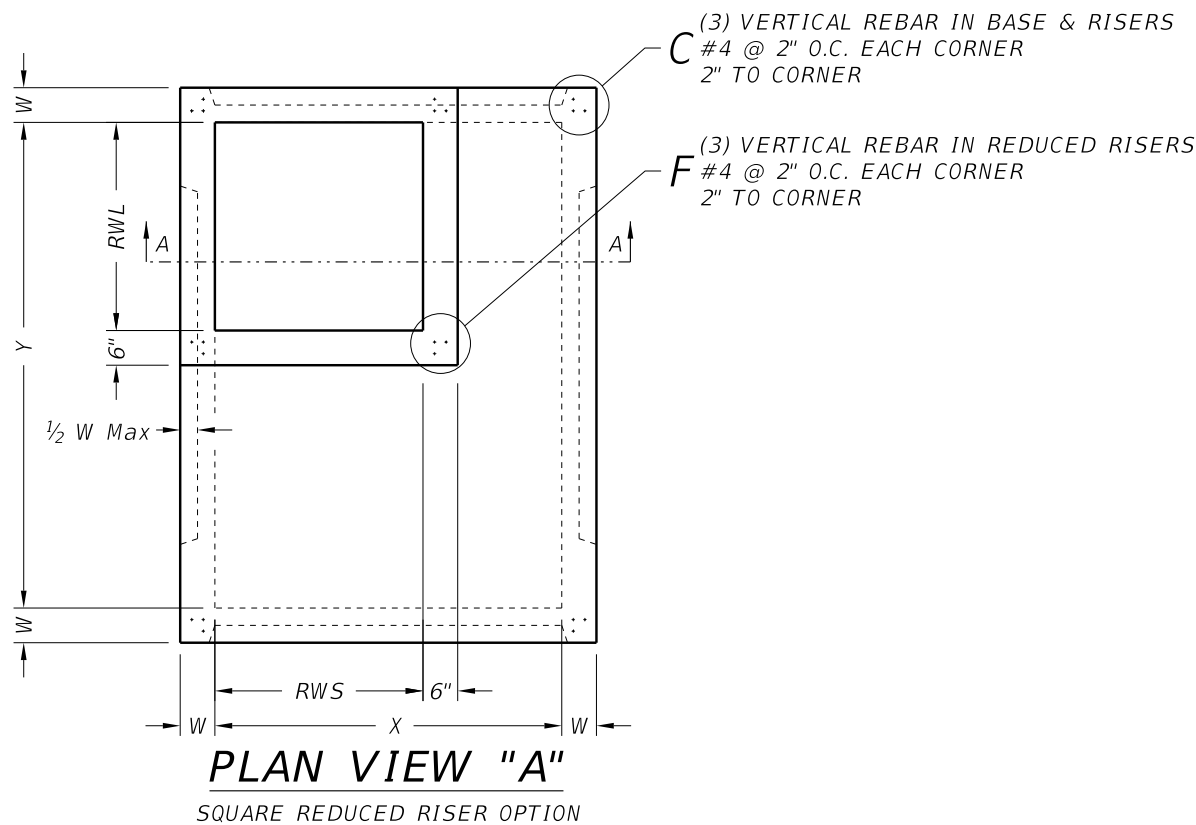
Force at Top Riser Joint

$$F_{top} := W_{cover} = 1.456 \text{ kip}$$

$$\text{if } (F_{top} > 0, \text{“No Uplift, OK”}, \text{“Uplift, NG”}) = \text{“No Uplift, OK”}$$

DISCLAIMER:
The use of this standard is governed by the "Texas Engineering Practice Act." No warranty of any kind is made by TxDOT for any purpose whatsoever. TxDOT assumes no responsibility for the conversion of this standard to other formats or for incorrect results or damages resulting from its use.

DATE:
FILE:



FABRICATION NOTES:

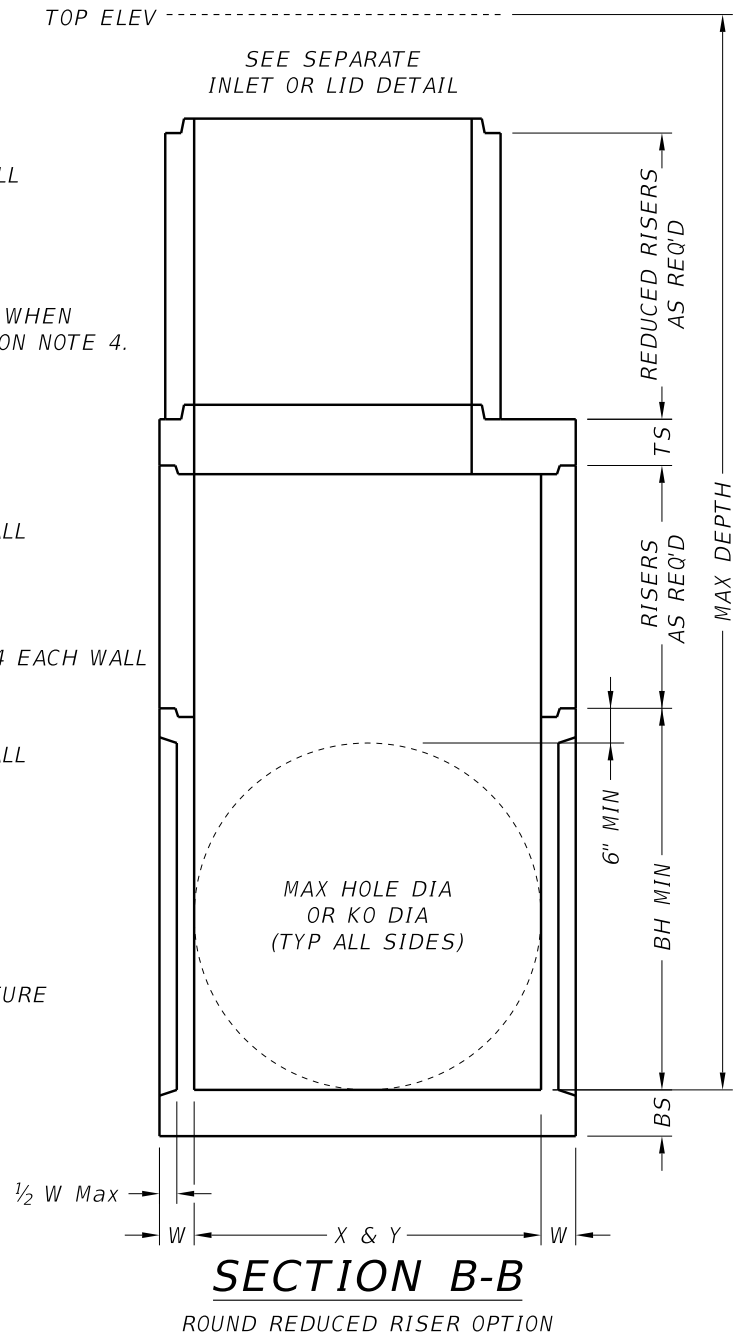
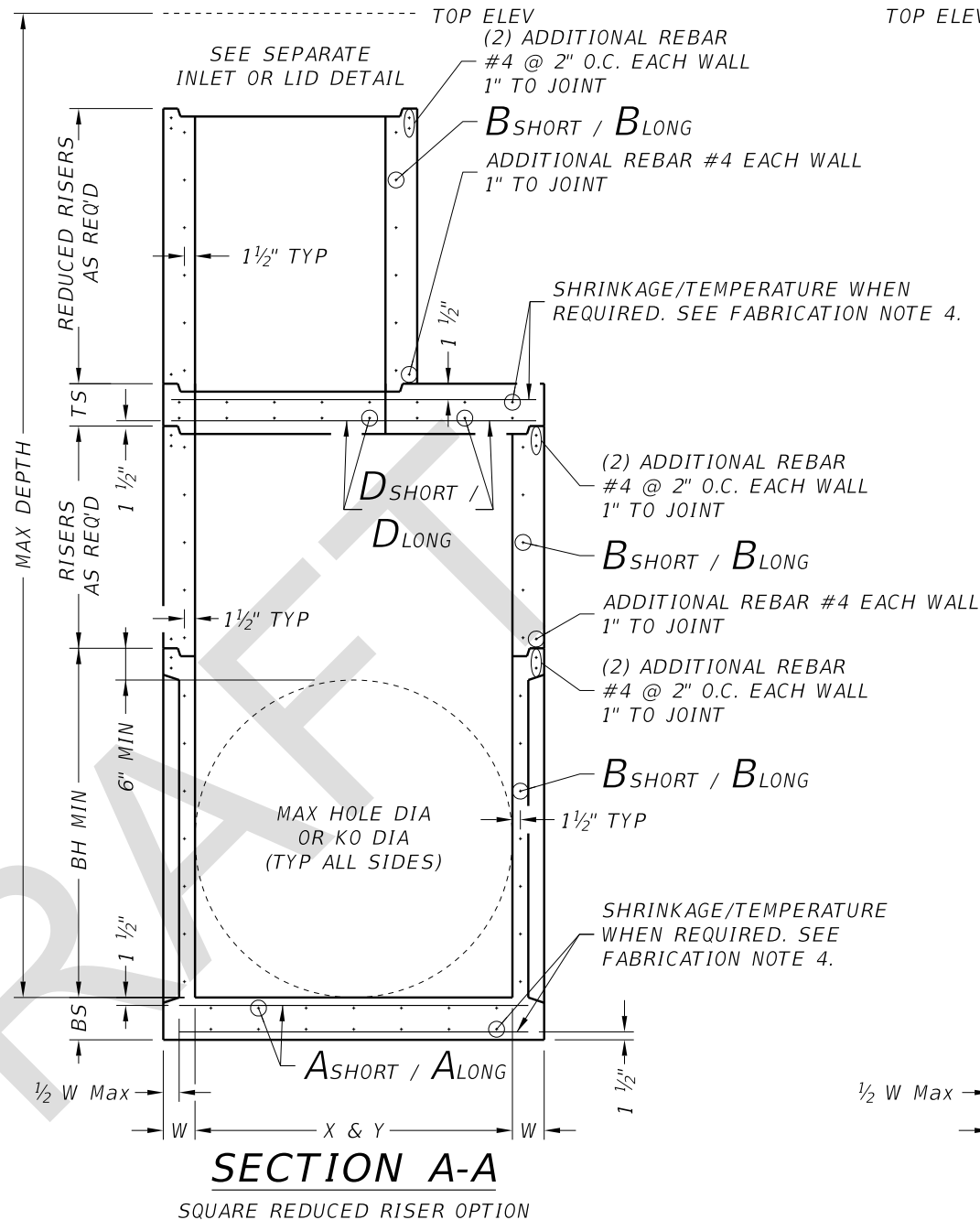
1. Provide Class "H" concrete in accordance with Item 421 and having a minimum compressive strength of 5,000 psi.
2. Provide Grade 60 reinforcing steel or equivalent area of WWR.
3. Provide typical clear cover of 1 1/2" to reinforcing steel at interior or exterior walls.
4. Walls or slabs with a thickness of 8" or greater require shrinkage and temperature reinforcing steel. Provide steel area = 0.11 in²/ft each way.
5. No substitution is allowed for vertical and horizontal #4 bars in corners.
6. Manufacture base and risers to nearest 3" increment.
7. Design tongue and groove joints for full closure on both shoulders. Minimum spigot depth is 3/4".
8. Provide lifting devices in conformance with Manufacturer's recommendations.
9. See sheet PDD for sizes, dimensions, and reinforcing steel not shown.

INSTALLATION NOTES:

1. If required elsewhere. Inverts (benching) to be provided by Contractor. Concrete or mortar used for invert is subsidiary to specified inlet or manhole.
2. Seal tongue and groove joints with preformed or bulk mastic in conformance with Manufacturer's recommendations. Tongue and groove joints may be grouted no more than 1" between each section, or 1/2 the joint depth, whichever is greater.
3. Do not grout rubber gasket joints without Manufacturer's recommendation.
4. For rigid pipe, cut hole in thin wall panel (KO) 4" Max, 2" Min larger than pipe OD.
5. For flexible pipe, consult boot/seal Manufacturer's specification for placement tolerance and hole size. Center pipe in hole and install boot/seal per Manufacturer's specification.

GENERAL NOTES:

1. Precast Base consists of base slab, base unit, risers (as required), reducing slab (as required), and reduced risers (as required). See sheet PDD for sizes.
2. Designed according to ASTM C913.
3. Payment for precast base is subsidiary to the specified inlet, per Item 465, "Junction Boxes, Manholes, and Inlets."



Cover dimensions are clear dimensions, unless noted otherwise.

HL93 LOADING



Texas Department of Transportation

Bridge
Division
Standard

PRECAST BASE

PB

FILE: CD-PB-20.dgn	DN: TxDOT	CK: TxDOT	DW: TxDOT	CK: TxDOT
©TxDOT February 2020	CONT	SECT	JOB	HIGHWAY
REVISIONS	DIST	COUNTY	SHEET NO.	

Item 4A

HIDALGO COUNTY REGIONAL MOBILITY AUTHORITY

AGENDA RECOMMENDATION FORM

BOARD OF DIRECTORS	<u> X </u>	AGENDA ITEM	<u> 4A </u>
PLANNING COMMITTEE	<u> </u>	DATE SUBMITTED	<u> 01/15/25 </u>
FINANCE COMMITTEE	<u> </u>	MEETING DATE	<u> 01/24/25 </u>
TECHNICAL COMMITTEE	<u> </u>		

1. Agenda Item: **RESOLUTION 2025-02 – APPROVAL AND CONSIDERATION OF A RESOLUTION ADOPTING THE HIDALGO COUNTY REGIONAL MOBILITY AUTHORITY’S LEGISLATIVE AGENDA FOR THE 89TH REGULAR SESSION OF THE TEXAS STATE LEGISLATURE**
2. Nature of Request: (Brief Overview) Attachments: X Yes No
Resolution 2025-02 – Approval and Consideration of a resolution adopting HCRMA’s legislative agenda for the 89th regular session of the Texas state legislature.
3. Policy Implication: Board Policy, Local Government Code, Texas Government Code, Texas Transportation Code, TxDOT Policy
4. Budgeted: Yes No X N/A
5. Staff Recommendation: **Resolution 2025-02 – Approval and Consideration of a resolution adopting Hidalgo County Regional Mobility Authority’s legislative agenda for the 89th regular session of the Texas state legislature, as presented.**
6. Program Manager’s Recommendation: Approved Disapproved X None
7. Planning Committee’s Recommendation: Approved Disapproved X None
8. Board Attorney’s Recommendation: Approved Disapproved X None
9. Chief Auditor’s Recommendation: Approved Disapproved X None
10. Chief Financial Officer’s Recommendation: Approved Disapproved X None
11. Chief Development Engineer’s Recommendation: Approved Disapproved X None
12. Chief Construction Engineer’s Recommendation: Approved Disapproved X None
13. Executive Director’s Recommendation: X Approved Disapproved None

HIDALGO COUNTY REGIONAL MOBILITY AUTHORITY

BOARD RESOLUTION No. 2025-02

APPROVING THE HIDALGO COUNTY REGIONAL MOBILITY
AUTHORITY'S LEGISLATIVE AGENDA FOR THE 89th REGULAR
SESSION OF THE TEXAS STATE LEGISLATURE

THIS RESOLUTION is adopted this 24th day of January, 2025 by the Board of Directors of the Hidalgo County Regional Mobility Authority at a regular meeting.

WHEREAS, the Hidalgo County Regional Mobility Authority (the "Authority"), acting through its Board of Directors (the "Board"), is a regional mobility authority created pursuant to Chapter 370, Texas Transportation Code, as amended (the "Act");

WHEREAS, the Authority was created by Order of Hidalgo County (the "County") dated October 26, 2004; Petition of the County dated April 21, 2005; and a Minute Order of the Texas Transportation Commission (the "Commission") dated November 17, 2005, pursuant to provisions under the Act;

WHEREAS, the Authority is authorized to develop transportation projects to improve mobility in and around Hidalgo County; and

WHEREAS, the Texas Legislature meets every odd numbered year to consider and adopt laws for the State of Texas, including laws that affect transportation and mobility;

NOW THEREFORE, BE IT RESOLVED, BY THE BOARD OF
DIRECTORS OF THE HIDALGO COUNTY REGIONAL MOBILITY
AUTHORITY THAT:

Section 1. The recital clauses are incorporated in the text of this Resolution as if fully restated.

Section 2. The Board hereby adopts the following legislative priorities:

- A. Addition of roadway to the Overweight Oversized Corridor to address legacy maintenance costs, to wit: (i) the 365 Tollway, an off-system roadway, (ii) W. Doffing Road from the intersection of Doffing Canal Road/S. Veterans Blvd. (Spur 29) to 0.8 miles east of that intersection, an off-system roadway, and (iii) other off-system roads and highways to be maintained by the Authority; and
- B. The ability for the Department of Public Safety to establish the gross weight of a vehicle;

C. Increase in optional vehicle registration fee for transportation projects to address border congestion, safety, and economic development.

Section 3. The Chairman, the Executive Director, the Board, and other staff members, consultants, and agents of the Authority are hereby authorized to speak or correspond on these legislative priorities.

PASSED AND APPROVED AS TO BE EFFECTIVE IMMEDIATELY BY THE BOARD OF DIRECTORS OF THE HIDALGO COUNTY REGIONAL MOBILITY AUTHORITY AT A REGULAR MEETING, duly posted and noticed, on the 24th day of January, 2025, at which meeting a quorum was present.

Robert L. Lozano, Chairman

Juan Carlos Del Ángel, Secretary/Treasurer

Exhibit A

A. Amend Section 623.363, Texas Transportation Code to address legacy maintenance costs of overweight roadways, as follows

Sec. 623.363. ISSUANCE OF PERMITS. (a) The commission may authorize a regional mobility authority to issue permits for the movement of oversize or overweight vehicles carrying cargo in Hidalgo County on:

(1) the following roads:

- (A) U.S. Highway 281 between its intersection with the Pharr-Reynosa International Bridge and its intersection with State Highway 336;
- (B) State Highway 336 between its intersection with U.S. Highway 281 and its intersection with Farm-to-Market Road 1016;
- (C) Farm-to-Market Road 1016 between its intersection with State Highway 336 and its intersection with Trinity Road;
- (D) Trinity Road between its intersection with Farm-to-Market Road 1016 and its intersection with Farm-to-Market Road 396;
- (E) Farm-to-Market Road 396 between its intersection with Trinity Road and its intersection with the Anzalduas International Bridge;
- (F) Farm-to-Market Road 2061 between its intersection with Farm-to-Market Road 3072 and its intersection with U.S. Highway 281;
- (G) U.S. Highway 281 between its intersection with the Pharr-Reynosa International Bridge and its intersection with Spur 29;
- (H) Spur 29 between its intersection with U.S. Highway 281 and its intersection with Doffin Canal Road;
- (I) Doffin Canal Road between its intersection with the Pharr-Reynosa International Bridge and its intersection with Spur 29;
- (J) Farm-to-Market Road 1015 between its intersection with U.S. Highway 281 and its intersection with U.S. Highway 83 Business;

- (K) U.S. Highway 83 Business between its intersection with Farm-to-Market Road 1015 and its intersection with South Pleasantview Drive;
- (L) Farm-to-Market Road 1015 between its intersection with U.S. Highway 83 Business and its intersection with Mile 9 Road North;
- (M) Mile 9 Road North between its intersection with Farm-to-Market Road 1015 and its intersection with Joe Stephens Avenue; ~~or~~
- (N) 365 Tollway; and
- (O) W. Doffing Road from the intersection of Doffing Canal Road/S. Veterans Blvd. (Spur 29) to 0.8 miles east of that intersection; or

(2) another route designated by the commission in consultation with the authority,

- A. Including any off-system overweight corridor designated pursuant to Section 623.003 where the authority undertakes all maintenance obligations as provided in Section 623.364 (b).

(b) The authority authorized under this section must serve the same geographic location as the roads over which the permit is valid.

Sec. 623.364. PERMIT FEES. (a) The authority may collect a fee for permits issued under this subchapter. Beginning September 1, 2017, the maximum amount of the fee may not exceed \$200 per trip. On September 1 of each subsequent year, the authority may adjust the maximum fee amount as necessary to reflect the percentage change during the preceding year in the Consumer Price Index for All Urban Consumers (CPI-U), U.S. City Average, published monthly by the United States Bureau of Labor Statistics or its successor in function.

(b) Fees collected under Subsection (a) shall be used only for the construction and maintenance of the roads described by or designated under Section 623.363 and for the authority's administrative costs, which may not exceed 15 percent of the fees collected.

The authority shall make payments to the Texas Department of Transportation to provide funds for the maintenance of on-system roads and highways subject to this subchapter. For road and highways that are off-system, the authority and the department shall enter into a maintenance contract for the authority to provide for maintenance using the fees collected under Subsection (a).

Sec. 623.365. PERMIT REQUIREMENTS. (a) A permit issued under this subchapter must include:

- (1) the name of the applicant;
- (2) the date of issuance;
- (3) the signature of the designated agent for the authority;
- (4) a statement of the kind of cargo being transported, the maximum weight and dimensions of the equipment, and the kind and weight of each commodity to be transported;
- (5) a statement:
 - (A) that the gross weight of the vehicle for which a permit is issued may not exceed 125,000 pounds; and
 - (B) of any other condition on which the permit is issued;
- (6) a statement that the cargo may be transported in Hidalgo County only over the roads described by or designated under Section 623.363; and
- (7) the location where the cargo was loaded.

(b) The authority shall report to the department all permits issued under this subchapter.

(c) When a valid permit has been issued, the Texas Department of Public Safety may establish the gross weight of a vehicle does not exceed 125,000 pounds.

B. Amend Section 502.402, Texas Transportation Code to address necessary funding for border infrastructure to meet the congestion, safety and economic development demand, as follows:

Sec. 502.402. OPTIONAL COUNTY FEE FOR TRANSPORTATION PROJECTS. (a)

This section applies only to:

(1) a county that:

(A) borders the United Mexican States; and

(B) has a population of more than 250,000;

(2) a county that has a population of more than 1.5 million that is coterminous with a regional mobility authority; and

(3) a county that has a population of more than 190,000 and not more than 1.5 million that is coterminous with a regional mobility authority.

(b) The commissioners court of a county by order may impose an additional fee for a vehicle registered in the county. Except as provided by Subsection (b-1), the fee may not exceed \$10. In a county described by Subsection (a)(3), the fee must be approved by a majority of the qualified voters of the county voting on the issue at a referendum election, which the commissioners court may order and hold for that purpose.

(b-1) The commissioners court of a county described by Subsection (a)(1) with a population of less than 700,000 may increase the additional fee to an amount that does not exceed \$20 by resolution of the County Commissioners Court.

(c) A vehicle that may be registered under this chapter without payment of a registration fee may be registered under this section without payment of the additional fee.

(d) A fee imposed under this section may take effect and be removed in accordance with the requirements of Section 502.401.

(e) The additional fee shall be collected for a vehicle when other fees imposed under this chapter are collected. The fee revenue collected shall be sent to a regional mobility authority located in the county to fund long-term transportation projects in the county that are consistent with the purposes specified by Section 7-a, Article VIII, Texas Constitution.

(f) The department shall adopt rules necessary to administer registration for a vehicle being registered in a county imposing a fee under this section.

This Page
Intentionally
Left Blank

Item 4B

HIDALGO COUNTY REGIONAL MOBILITY AUTHORITY

AGENDA RECOMMENDATION FORM

BOARD OF DIRECTORS	<u> X </u>	AGENDA ITEM	<u> 4B </u>
PLANNING COMMITTEE	<u> </u>	DATE SUBMITTED	<u> 1/16/2024 </u>
FINANCE COMMITTEE	<u> </u>	MEETING DATE	<u> 1/24/2024 </u>
TECHNICAL COMMITTEE	<u> </u>		

1. Agenda Item: **RESOLUTION 2025-03 – CONSIDERATION AND APPROVAL OF CHANGE ORDER NUMBER 1 TO THE CONTRACT WITH MITRES SERVICES, LLC, FOR THE GRANJENO WETLAND MITIGATION SITE PROJECT FOR A DEDUCT TO THE MAXIMUM AMOUNT PAYABLE.**
2. Nature of Request: (Brief Overview) Attachments: X Yes No
Approval of Resolution 2025-03 for CO No. 1
3. Policy Implication: Board Policy, Local Government Code, Texas Government Code, Texas Transportation Code, TxDOT Policy
4. Budgeted: Yes No X N/A
5. Staff Recommendation: **Motion to approve Resolution 2025-03 – Consideration and Approval of Change Order Number 1 to the contract with MitRes Services, LLC, for the Granjeno Wetland Mitigation Site Project for a deduct to the maximum amount payable. as presented.**
6. Program Manager's Recommendation: Approved Disapproved X None
7. Planning Committee's Recommendation: Approved Disapproved X None
8. Board Attorney's Recommendation: Approved Disapproved X None
9. Chief Auditor's Recommendation: Approved Disapproved X None
10. Chief Financial Officer's Recommendation: Approved Disapproved X None
10. Chief Development Engineer's Recommendation: Approved Disapproved X None
11. Chief Construction Engineer's Recommendation: X Approved Disapproved None
12. Executive Director's Recommendation: X Approved Disapproved None

HIDALGO COUNTY REGIONAL MOBILITY AUTHORITY BOARD
RESOLUTION 2025-03

**CONSIDERATION AND APPROVAL OF CHANGE ORDER NUMBER 1 TO
THE CONTRACT WITH MITRES SERVICES, LLC. FOR THE GRANJENO
WETLAND MITIGATION SITE PROJECT FOR A DEDUCT TO THE
MAXIMUM PAYABLE AMOUNT**

THIS RESOLUTION is adopted this 24th day of January, 2025 by the Board of Directors of the Hidalgo County Regional Mobility Authority.

WHEREAS, the Hidalgo County Regional Mobility Authority (the "Authority"), acting through its Board of Directors (the "Board"), is a regional mobility authority created pursuant to Chapter 370, Texas Transportation Code, as amended (the "Act");

WHEREAS, the Authority is authorized by the Act to address mobility issues in and around Hidalgo County, including the development of the 365 Toll project (the "Project");

WHEREAS, the Project was environmentally cleared in 2015;

WHEREAS, the U.S. Army Corps of Engineers issued Individual Permit No. SWG-2013-00175 (the "Permit") for the Project;

WHEREAS, the Permit requires the Authority to conduct a compensatory wetland mitigation (the "Mitigation Plan");

WHEREAS, the Permit additionally requires that the area on which the Mitigation Plan is to be conducted be covered by a conservation easement held by an approved wildlife conservation organization in perpetuity, which easement is to be recorded in the real property records of Hidalgo County, Texas (the "Conservation Easement");

WHEREAS, the Valley Land Fund Inc., a Texas non-profit corporation, is a wildlife conservation organization established to preserve, enhance, and expand the native wildlife habitat of the Rio Grande Valley;

WHEREAS, the governing body of the Valley Land Fund Inc. has or will approve its acceptance of the Conservation Easement; and

WHEREAS, the Board now finds it to be in the best interest of the Authority to provide the open space and environmental values described in the Conservation Easement;

WHEREAS, on August 24, 2021, the Board authorized Executive Director, to accept and execute the Conservation Easement, as approved by the Valley Land Fund Inc. in final form and have the same recorded in the real property records of Hidalgo County, Texas.

WHEREAS the Authority publicly advertised and conducted a mandatory attendance, Pre-bid Meeting on Tuesday, November 21, 2023; 2:00 P.M. C.S.T., at the Hidalgo County Regional Mobility Authority Offices; the HCRMA entertained Questions / RFI's via the project's CivCAST listing, and provided timely answers up and till 3:00 P.M. C.S.T. on Wednesday, November 29, 2023

WHEREAS, at 2:45PM on December 6, 2023, the Authority received two (2) formal sealed, electronic bids for the Project; and at 3:05 p.m., the Authority opened and read into the record two (2) formal sealed, electronic bids for the Project from: (i) JMJ Constructors, (ii) and MitRes Services, LLC. in amounts ranging from \$3,229,980.00 to \$5,117,103.16 for construction of the Project; and

WHEREAS, due to discovered plan error, and in the best interest of the Authority; HCRMA Staff and GEC (HDR) on January 29, 2024, rejected all bids;

WHEREAS, the Authority publicly re-advertised and conducted a mandatory attendance, Pre-bid Meeting on Tuesday, February 20, 2024; 2:00 P.M. C.S.T., at the Hidalgo County Regional Mobility Authority Offices, and via TEAMS [Meeting ID: 256 105 661 046] ; the HCRMA entertained Questions / RFI's via the project's CivCAST listing, and provided timely answers up and till 3:00 P.M. C.S.T. on Friday, March 8, 2024;

WHEREAS, at 1:39PM on March 13, 2024 the Authority received one (1) formal sealed, electronic bids for the Project; and at 3:05 p.m., the Authority opened and read into the record one (1) formal sealed, electronic bids for the Project from: (i) MitRes Services, LLC.;

WHEREAS, on March 26, 2024, the Authority opened and read into the record one (1) formal sealed, electronic bids for the Project from: (i) MitRes Services, LLC. in amount of \$5, 850,993.87 for construction of the Project; and

WHEREAS, pursuant to the Act; HCRMA Staff and GEC (HDR) reviewed proposals; and the Board approved award of contract to MitRes Services, LLC. contingent to partnering agency's concurrence in the amount of \$5,850,993.87 for construction of the Project;

WHEREAS, on May 29, 2024, TxDOT recognized that the subject project is fully funded by bond proceeds issued by HCRMA; no state of federal dollars are being used for this construction. Therefore, TxDOT is not required to provide concurrence to HCRMA for the award of this procurement; and,

THEREFORE, on June 25, 2024, pursuant to the Act the Authority approved Resolution 2024-32 awarding the construction contract to MitRes Services, LLC. in the amount of \$5,850,993.87 for construction of the Project; and

WHEREAS, the Authority finds it necessary to approve Resolution 2025-03 Consideration and approval of Change Order Number 1 to contract with MitRes Services, LLC, for the Granjeno Wetland Mitigation Site Project for a deduct of (\$187,915.96) revising the maximum amount payable to \$5,663,077.91.

NOW THEREFORE, BE IT RESOLVED, BY THE BOARD OF DIRECTORS OF THE HIDALGO COUNTY REGIONAL MOBILITY AUTHORITY THAT:

Section 1. The recital clauses are incorporated in the text of this Resolution as if fully restated.

Section 2. The Board hereby approves Change Order Number 1 to the Contract for the Granjeno Wetland Mitigation Project awarded to MitRes Services, LLC. and approves the Change Order attached hereto as Exhibit A.

Section 3. The Board authorizes the Executive Director to execute Change Order Number 1.

PASSED AND APPROVED AS TO BE EFFECTIVE IMMEDIATELY BY THE
BOARD OF DIRECTORS OF THE HIDALGO COUNTY REGIONAL MOBILITY
AUTHORITY AT A REGULAR MEETING on the 24th day of January, 2025, at which meeting
a quorum was present.

Robert L. Lozano, Chairman

Juan Carlos Del Angel, Secretary/Treasurer

Exhibit A

Change Order Number 1

to the Contract

with

MitRes Services, LLC

for the Granjeno

Wetland Mitigation Site Project



CONSTRUCTION CONTRACT CHANGE ORDER NUMBER: 01

1. CONTRACTOR: MitRes Services

2. Change Order Work Limits: Sta. 10851 S FM 2895 RD
GRANJENO, TX to Sta. 10851 S FM 2895 RD
GRANJENO, TX

3. Type of Change (on federal-aid non-exempt projects): (Major/Minor)

4. Describe the change and the reason for the change order. When necessary, include exceptions to this agreement.

Wetland Design Modification: Evaluation of the proposed wetland design elevation changes. In general, the original footprint and volume of the wetland design is retained. The design change to the wetland is limited to lowering the wetland to minimize the amount of imported soil for common fill

CCSJ: Granjeno
Project: Granjeno Wetland Mitigation
Highway: 365 Toll
County: Hidalgo
District: _____
Contract Number: 01-C60-24-01-GC

5. New or revised plan sheet(s) are attached and numbered: _____

Each signatory hereby warrants that each has the authority to execute this Change Order.

By signing this change order, the contractor agrees to waive any and all claims for additional compensation due to any and all other expenses; additional changes for time, overhead and profit; or loss of compensation as a result of this change. Further, the contractor agrees that this agreement is made in accordance with Item 4 and the Contract. Exceptions should be noted in the response for #5 above.

The following information must be provided

Time Ext. #: 0 Days added on this C.O.: 0

Amt. added by this change order: (\$187,915.96)

For HCRMA use only:

Days participating: Amount _____

participating: _____

Signature _____ Date _____

Name/Title _____

THE CONTRACTOR Date 01/16/2025

By Chad Tilbury

Typed/Printed Name Chad Tilbury

Typed/Printed Title Project Manager

RECOMMENDED FOR EXECUTION:

Name/Title _____ Date _____

Name/Title _____ Date _____

☐ APPROVED

☐ REQUEST APPROVAL

Name/Title _____ Date _____

Name/Title _____ Date _____

☐ APPROVED

☐ REQUEST APPROVAL

Samuel Saldivar, Jr., PE Date 01-16-2025

Name/Title _____ Date _____

Name/Title _____ Date _____

☐ APPROVED

Engineer's Seal:



CONSTRUCTION CONTRACT CHANGE ORDER NUMBER: 01

Estimated Cost:

CCSJ: Granjeno
Paid by Invoice? (☐ Yes ☐ No)

TABLE A: Force Account Work and Materials Placed into Stock

LABOR	HOURLY RATE	EQUIPMENT	HOURLY RATE

TABLE B: Contract Items

ITEM	DESCRIPTION	UNIT	UNIT PRICE	ORIGINAL + PREVIOUSLY REVISED			NEW			OVERRUN/ UNDERRUN
				QUANTITY	ITEM COST		QUANTITY	ITEM COST		
A-1	Mobilization/Demobilization	LS	\$497,611.09	1	\$497,611.09		1	\$497,611.09		-
A-2	Well and Pump - 550 GPM Capacity	LS	\$977,100.65	1	\$977,100.65		1	\$977,100.65		-
A-3	Planting	LS	\$102,974.50	1	\$102,974.50		1	\$102,974.50		-
A-4	SWPPP	LS	\$63,453.98	1	\$63,453.98		1	\$63,453.98		-
A-5	Clay Quarry	LS	\$1,314,717.61	0			1	\$1,314,717.61		\$1,314,717.61
	Subtotal							\$2,955,857.83		
B-1	6" PVC Waterline	LF	\$311.92	2,599	\$810,686.59		2,599	\$810,686.59		-
B-2	Excavation	CY	\$5.90	178,000	\$1,050,223.19		178,000	\$1,050,223.19		-
B-3	Embankment (Planting Soil)	CY	\$1.41	73,000	\$102,940.98		73,000	\$102,940.98		-
B-4	Embankment (Clay Liner)	CY	\$0.68	87,000	\$58,746.18		87,000	\$58,746.18		-
B-5	Embankment (Subbase)	CY	\$14.79	110,000	\$1,626,428.57		10,500	\$155,295.00		(\$1,471,133.57)
B-6	Clearing/ Grubbing	AC	\$3,476.45	25	\$86,911.16		25	\$86,911.16		-
B-7	Grate Inlet	EA	\$31,500	1	\$31,500.00		0	(\$31,500.00)		(\$31,500.00)
B-8	18" RCP	LF	\$2,461.42	100	\$246,141.64		100	\$246,141.64		-
B-9	15' Wide Access Road	SY	\$28.04	7,000	\$196,275.33		7,000	\$196,275.33		-
	Subtotal							\$2,707,220.07		
	TOTALS							\$5,663,077.90		

CHANGE PROPOSAL

Owner: Hidalgo County Regional Mobility Authority

Project Name: HCRMA Granjeno Wetland Mitigation Site

Change Proposal No.: 01 Date: 01/10/2025

Submitted in Response to Proposal No.: 01

Contract Name and No.: Contract No. 01-C60-24-01 - Granjeno Wetland Mitigation Site

Contractor: MitRes Services

Subject: Change proposal is in response to Proposal No. 1 request of evaluation of wetland design modification and available on-site clay "liner" soil.

The following changes to the Contract are proposed:

SCOPE OF PROPOSED CHANGE TO CONTRACT: *(attach supporting information as required)*

1. *Pay Item B-5 Quantity Reduction:* Pay Item B-5 "Embankment (Subbase) quantity reduced based on the redesign of the wetland to adjust the elevations.
2. *New Pay Item A-5:* Pay Item A-5 "Clay Quarry" is being added to the contract. Item A-5 includes labor, equipment, materials, and incidentals to excavate, stockpile, separate, material testing, fill of non-clay liner areas, compaction of non-clay liner areas, grading, watering, documentation of excavated and embanked soils, and any other items of work necessary to complete this work.

JUSTIFICATION:

1. *Pay Item B-5 Quantity Reduction:* The redesign of the wetland achieve lowering of the wetland elevations which reduced the quantity of Embankment (Subbase) also known as common fill. The original quantity required the soil to be imported to the site. See attached volume report (Exhibit B) for quantity reduction. Quantity was reduced from 110,000CY to 10,500CY.
2. *New Pay Item A-5:* As a result of field conditions, the amount of clay liner anticipated to be available at 5.5 feet of depth was less than 87,000CY required. Therefore, the contractor has to over-excavate deeper than 5.5 feet to mine the clay meeting the specification requirements and separate it from soil not meeting the requirements. This effort requires managing the non-compliant soil to be used as common fill in the over-excavated areas. Attached is Exhibit C for additional details and justification.

PROPOSED CHANGES IN CONTRACT PRICE AND CONTRACT TIMES:

We propose that the Contract Price and Contract Times be changed as follows:

For Contract Price, attach detailed cost breakdowns for Contractor and Subcontractors, Supplier quotations, and other information required.

For the Contract Times, state increase, decrease, or no change to Contract Times for Substantial Completion, readiness for final payment, and Milestones, if any. If increase or decrease, state specific number of days for changes to the Contract Times. Submit supporting data, including time impact analysis for the Progress Schedule.

Description	Amount	Contract Times (days)	
		Substantial	Final
1. A-5 Clay Quarry	\$1,314,717.61	0	0

2. B-5 Embankment (Subbase)	\$(1,471,133.57)	0	0
3. B-7 Grate Inlet	\$(31,500)		
Total This Change Proposal	\$(187,915.96)	0	0

Footnote 1: See attached Exhibit A for overall contract pay items and value.

Changes to Milestones, if any: N/A

Contractor represents that supporting data attached to this Change Proposal are accurate and complete. The requested time or price adjustment indicated in this Change Proposal is the entire adjustment to which Contractor believes it is entitled as a result of the proposed change(s) indicated herein.

Change Proposal by: Chad Tilbury (MitRes Services)

Signature of Proposer: 

EXHIBIT A

Item No.	Description	Unit Measure	Original Contract Quantity	CO 01 Quantity Difference	Revised Contract Quantity	Unit Price	Revised Contract Total Cost
A-1	Mobilization/Demobilization <i>(including bonds and insurance)</i>	LS	1.00	0.00	1.00	\$ 497,611.09	\$ 497,611.09
A-2	Well and Pump - 550GPM Capacity	LS	1.00	0.00	1.00	\$ 977,100.65	\$ 977,100.65
A-3	Planting	LS	1.00	0.00	1.00	\$ 102,974.50	\$ 102,974.50
A-4	Storm Water Pollution Prevention Plan	LS	1.00	0.00	1.00	\$ 63,453.98	\$ 63,453.98
A-5	Clay Quarry	LS	0.00	1.00	1.00	\$ 1,314,717.61	\$ 1,314,717.61
					Subtotal A Items		\$2,955,857.83
B-1	6" PVC Waterline	LF	2,700	-	2,599	\$ 311.92	\$ 810,686.59
B-2	Excavation	CY	178,000	-	178,000	\$ 5.90	\$1,050,223.19
B-3	Embankment (Planting Soil)	CY	73,000	-	73,000	\$ 1.41	\$ 102,940.98
B-4	Embankment (Clay Liner)	CY	87,000	-	87,000	\$ 0.68	\$ 58,746.18
B-5	Embankment (Subbase)	CY	110,000	-99,500	10,500	\$ 14.79	\$ 155,295.00
B-6	Clearing/ Grubbing	AC	25	-	25	\$ 3,476.45	\$ 86,911.16
B-7	Grate Inlet	EA	1	-1	0	\$ 31,500.00	\$ -
B-8	18" RCP	LF	100	-	100	\$ 2,461.42	\$ 246,141.64
B-9	15' Wide Access Road	SY	7,000	-	7,000	\$ 28.04	\$ 196,275.33
					Subtotal B Items		\$2,707,220.07

Revised Total Contract \$5,663,077.90

Original Contract Total \$5,850,993.86

Total CO_01 -\$187,915.96

Cut/Fill Report

Generated:

2024-11-07 10:27:21

By user:

HBALBIN

Drawing:

C:\pwworking\central01\d4742180\C:\pwworking\central01\d4742180\20241107_Access Road Adjustments to MitRes.dwg

Volume Summary							
Name	Type	Cut Factor	Fill Factor	2d Area (Sq. Ft.)	Cut (Cu. Yd.)	Fill (Cu. Yd.)	Net (Cu. Yd.)
Existing Ground vs Wetland Proposed Grade	full	1.000	1.000	1083239.77	41243.63	39684.17	1559.46<Cut>
Existing Ground vs Access Road	full	1.000	1.000	70875.38	22.51	12089.81	12067.30<Fill>

Totals				
	2d Area (Sq. Ft.)	Cut (Cu. Yd.)	Fill (Cu. Yd.)	Net (Cu. Yd.)
Total	1154115.16	41266.14	51773.98	10507.84<Fill>

* Value adjusted by cut or fill factor other than 1.0



January 14, 2025

Dear Mr. Navarro and Mr. Saldivar,

Thank you for your time and for allowing us to present our strategy in budgeting the HCRMA Wetland project last week. We felt that the conversation was productive and that the revised design is an improvement that will provide HCRMA with considerable cost savings on the project (over \$156K). Our intent with this correspondence is to provide a narrative to support the presentation that we shared with you.

History

With our submittal for the original RFB, we estimated a dirt imbalance of approximately 111,000 CY. More specifically, about 71,000 CY of this material would need to be select fill suitable for the clay liner. Due to the impracticality of importing such a large amount of borrow material from offsite, MitRes felt there was an opportunity for the project to be redesigned to accommodate a more manageable cut-fill balance. The second RFB for the project had modified quantities and an additional line item referred to as "B-5 Embankment (Subbase)" was added to the bid sheet via **ADDENDUM 01 (2024-004)** – issued 3/1/2024. This line added 110,000 CY to the project, while the B-2 Excavation yardage remained the same, at 178,000 CY. Our assumptions accounted for the additional excavating, quarrying, stockpiling, rehandling, clay processing and backfilling associated with the yardage that would have to be moved in order to recover the select fill required to build the clay liner. As such, removing yardage from the B-5 Embankment (Subbase) requires a redistribution of some of these costs to maintain adequate costing for the project as a whole. In summary, utilizing all material onsite is a much more practical and cost-effective solution; however, there are additional processing costs associated with handling the increased volume of material at the site that need to be accounted for.

As mentioned previously, the initial design required a net import of approximately 110,000 CY. A preliminary redesign was provided to MitRes Services on August 22, 2024 that lowered the wetland approximately four feet. This design eliminated the net import and provided adequate quantities of each soil type required, and resulted in a net export of approximately 45,000 CY. The most recent design was provided on November 11, 2024. This design effectively raises the elevation of the wetland by approximately 1.6' from the previous design, creating a very close cut-fill balance.

B-5 Embankment (Subbase)

Utilizing the geotechnical report included in the bid documents, MitRes Services determined that the clay at the site was primarily on the southwest portion of the site and that the available clay on the northeast side of the project was not financially recoverable due to it presenting in thin, spotty lenses interspersed

throughout sandy layers. MitRes Services included in the Unit Rate an estimate for quarrying and stockpiling suitable clay adjacent to the project site and compacting the quarried clay to construct the clay liner. By lowering the final surface, HDR succeeded in minimizing the material import needed, but the issue of finding suitable clay remains. Based on the geotechnical report, and recent test holes, there is sufficient clay at the site below the designed base of clay liner that can be quarried and stockpiled at the site. The planned unsuitable material excavation will then be utilized to backfill the holes created by the below grade clay excavation, removing the need to export material from the site.

Quarrying

The scope of work for the below grade quarry will require working in tight spaces and having to ramp in and out of the quarry locations. For safety purposes, we will likely have to maintain berms around the perimeter of the quarry locations. This process will be inherently slower than the wide-open areas for bulk excavation operation at the higher elevations. MitRes will have to add additional tractor-pan excavation units and operators at the site to maintain schedule. We will also require adding a smooth drum vibratory roller, in addition to the existing soil compactor, to utilize the sandier unsuitable excavation to back fill the quarry areas back up to base of clay elevations.

Budget Update

Based upon our discussion of the new wetland design, as well as our strategy for building the budget submittal for the re-bid that our contract is structured around, we recommend modifying the list of pay line items as follows:

- Reduce the quantity of B-5 Embankment (Subbase) from 110,000 CY to 10,500 CY.
- Add a pay line item to the Lump Sum section to cover the costs of quarrying for the required clay material needed to construct the clay liner for the wetland. The total price for this line item should be \$1,314,717.61.

Billing / Surveying

During our discussion, we proposed billing for these line items on a percentage of completion schedule, based on as-built surveys completed by MitRes Services and verified by HDR for each line item. The following provides detail as to how this surveying and subsequent billing works:

1. ***Excavation Line Item*** = The bottom of the clay grade survey will prove that the number of cubic yards needed to be moved (~178k CY) were moved
 - a. (1) survey required for payment:
 - i. Bottom of clay liner grade
2. ***Planting Soil (Embankment) Line Item*** = the top of the clay liner and the top of the planting soil will prove the cubic yards (~73k CY) were moved

- a. (2) surveys required for payment:
 - i. Top of clay liner
 - ii. Top of planting soil
- 3. **Clay Liner (Embankment) Line Item** = the bottom of clay grade and the top of clay liner will prove the cubic yards (~87K CY) were moved
 - a. (2) surveys required for payment
 - i. Bottom of clay liner grade
 - ii. Top of clay liner grade
- 4. **Subbase (Embankment) Line Item** = this is the net imported material (10,500 CY of common fill) required to complete the project. We have identified suitable material on the property to use for this purpose; this item will be billed as percentage complete.
- 5. **Clay Quarry (Lump Sum) Line Item** = this line has been added to capture the costs associated with quarrying for the required clay necessary to construct the clay liner for the wetland and for the costs associated with processing the clay liner to achieve desired moisture content and compaction. This line item contains the following steps:
 - a. Quarry for the required clay quantities
 - b. Stockpile the overburden above the quarried clay
 - c. Stockpile the quarried clay (or direct place if possible)
 - d. Backfill quarry areas with stockpiled overburden
 - e. Rehandle the clay from the stockpile to install the liner
 - f. Process the clay to achieve desired moisture and compaction

This line item will be billed on a percentage complete basis.

These progress payments for each of these lines will be based on the percentage of completion for each month, and 100% of each line will be invoiced once these surveys mentioned above are complete (where applicable), less the 10% retainage.

Sincerely,

Chad Tilbury, P.E.
Project Manager
MitRes Services, LLC

Item 4C

HIDALGO COUNTY REGIONAL MOBILITY AUTHORITY

AGENDA RECOMMENDATION FORM

BOARD OF DIRECTORS	<u> X </u>	AGENDA ITEM	<u> 4C </u>
PLANNING COMMITTEE	<u> </u>	DATE SUBMITTED	<u> 1/15/2025 </u>
FINANCE COMMITTEE	<u> </u>	MEETING DATE	<u> 1/24/2025 </u>
TECHNICAL COMMITTEE	<u> </u>		

1. Agenda Item: **RESOLUTION 2025-04– CONSIDERATION AND APPROVAL OF CONTRACT AMENDMENT NUMBER 1 TO THE CONTRACT WITH SWG ENGINEERING FOR CONSTRUCTION INSPECTION SERVICES FOR THE HIDALGO COUNTY IRRIGATION DISTRICT NUMBER 2 IMPROVEMENTS AS PART OF THE 365 TOLLWAY PROJECT.**
2. Nature of Request: (Brief Overview) Attachments: X Yes No
Approval of Resolution 2025-04 for Contract Amendment No. 1.
3. Policy Implication: Board Policy, Local Government Code, Texas Government Code, Texas Transportation Code, TxDOT Policy
4. Budgeted: Yes No X N/A
5. Staff Recommendation: **Motion to approve Resolution 2025-04 – Consideration and Approval of Contract Amendment Number 1 to the contract with SWG Engineering for Construction Inspection Services for the Hidalgo County Irrigation District Number 2 Improvements as part of the 365 Tollway Project, as presented.**
6. Program Manager's Recommendation: Approved Disapproved X None
7. Planning Committee's Recommendation: Approved Disapproved X None
8. Board Attorney's Recommendation: Approved Disapproved X None
9. Chief Auditor's Recommendation: Approved Disapproved X None
10. Chief Financial Officer's Recommendation: Approved Disapproved X None
10. Chief Development Engineer's Recommendation: Approved Disapproved X None
11. Chief Construction Engineer's Recommendation: X Approved Disapproved X None
12. Executive Director's Recommendation: X Approved Disapproved None



Memorandum

To: Pilar Rodriguez, P.E.
HCRMA, Executive Director

From: Ramon Navarro IV, P.E.
HCRMA, Chief Construction Engineer

Date: January 21, 2025

Subject: RESOLUTION 2025-04 CONSIDERATION AND APPROVAL OF CONTRACT AMENDMENT 1 TO THE PROFESSIONAL SERVICE AGREEMENT WITH SWG, INC. TO PROVIDE CONSTRUCTION INSPECTION SERVICES FOR THE HIDALGO COUNTY IRRIGATION DISTRICT NUMBER 2 IMPROVEMENTS AS PART OF THE 365 TOLLWAY PROJECT

HISTORY

HCRMA entered into a Professional Services Agreement with SWG Engineering on June 13, 2024 to render specialized professional construction inspection services for installation of irrigation structures and appurtenances.

The ongoing construction and requirements of HCID#2 for inspection services renders we extend services to SWG Engineering through Contract Amendment #1 to existing PSA.

HIDALGO COUNTY REGIONAL MOBILITY AUTHORITY

RESOLUTION NO. 2025 – 04

**CONSIDERATION AND APPROVAL OF CONTRACT AMENDMENT 1 TO
THE PROFESSIONAL SERVICE AGREEMENT WITH SWG, INC. TO
PROVIDE CONSTRUCTION INSPECTION SERVICES FOR THE
HIDALGO COUNTY IRRIGATION DISTRICT NUMBER 2
IMPROVEMENTS AS PART OF THE 365 TOLLWAY PROJECT**

THIS RESOLUTION is adopted this 24th day of January 2025 by the Board of Directors of the Hidalgo County Regional Mobility Authority.

WHEREAS, the Hidalgo County Regional Mobility Authority (the "Authority"), acting through its Board of Directors (the "Board"), is a regional mobility authority created pursuant to Chapter 370, Texas Transportation Code, as amended (the "Act");

WHEREAS, pursuant to the Act, the Authority was created by Order of Hidalgo County (the "County") dated October 26, 2004, Petition of the County dated April 21, 2005, and Minute Order of the Texas Transportation Commission (the "Commission") dated November 17, 2005;

WHEREAS, the Board has been constituted in accordance with the Act to address mobility issues in and around the County;

WHEREAS, the Authority requires specialty inspection services to conduct its business with irrigation entities within construction limits of the 365 Tollway Project and provide advice to the Board and staff;

WHEREAS, on April 25, 2024, the Authority received a proposal for such services from SWG Engineering, LLC (the "Engineer"); provide a scope of services to the Authority that includes, but is not limited to, Professional Engineering Services; and,

WHEREAS, on May 28, 2024, the Authority approved Resolution 2024-26 – Consideration and approval of a Professional Services Agreement with SWG, Inc. to provide construction inspection services for the Hidalgo County Irrigation District Number 2 improvements as part of the 365 Tollway Project in the amount of \$50,000.00; and

WHEREAS, the Authority staff has negotiated a contract amendment to Professional Service Agreement with SWG Engineering, LLC in the amount of \$45,000.00 for the review of construction irrigation field crossings, conduct construction reviews; monitor the workmanship and materials incorporated into work; witness verification and sampling and testing when required; and mitigate plans and specifications with irrigation entities, hereto attached as Exhibit A; and,

WHEREAS, the authority finds it necessary to approve Resolution 2025-04 – Consideration and approval of Contract Amendment Number 1 to the Professional Service Agreement with SWG, Inc. for an increase of \$45,000.00 to the original contract amount of \$50,000.00, revising the maximum amount payable to \$95,000.00 to provide construction inspection services for the Hidalgo County Irrigation District Number 2 improvements as part of the 365 Tollway Project.

NOW THEREFORE, BE IT RESOLVED, BY THE BOARD OF DIRECTORS OF
THE HIDALGO COUNTY REGIONAL MOBILITY AUTHORITY THAT:

Section 1. The recital clauses are incorporated in the text of this Resolution as if fully
restated.

Section 2. The Board approves Contract Amendment number 1 to the Professional Service
Agreement to SWG Engineering LLC, hereto attached as Exhibit A.

Section 3. The Board authorizes the Executive Director to execute Contract Amendment
Number 1 to the Professional Service Agreement upon review and approval of
HCRMA Legal; and, final acceptance from SWG Engineering, LLC.

PASSED AND APPROVED AS TO BE EFFECTIVE IMMEDIATELY BY THE BOARD OF DIRECTORS OF THE HIDALGO COUNTY REGIONAL MOBILITY AUTHORITY AT A REGULAR MEETING, duly posted and noticed, on the 24th day of January 2025, at which meeting a quorum was present.

Robert L. Lozano, Chairman

Juan Carlos Del Ángel, Secretary/Treasurer

EXHIBIT A

CONTRACT AMENDMENT NUMBER 1 TO THE ASSIGNMENT AND ASSUMPTION OF
PROFESSIONAL SERVICES AGREEMENT BY AND AMONG THE HIDLAGO COUNTY
REGIONAL MOBILITY AUTHORITY, AND
SWG ENGINEERING, LLC

ATTACHMENT D-2

CONTRACT AMENDMENT NO. 1 TO PROFESSIONAL SERVICES AGREEMENT

THIS CONTRACT AMENDMENT is made pursuant to the terms and conditions of “Professional Services Agreement for Professional Services” hereinafter identified as the “Agreement,” entered into by and between the Hidalgo County Regional Mobility Authority (Authority), and SWG Engineering, LLC. (the Engineer).

The following terms and conditions of PSA are hereby amended as follows:

Part I: Scope of Services to be provided by the Engineer and amended as noted within the attached Exhibit B. for Contract Amendment Number 1 scope contained herein.

Part II: The maximum amount payable under P S A is increased by \$45,000.00 as shown in Exhibit.

Part IV: Contract AmendmentNo. 1 shall now terminate on July 25,2025 and a revised Work Schedule will be supplied to document the revised date of work activity.

IN WITNESS WHEREOF, this Supplemental Work Authorization is executed in duplicate counterparts and hereby accepted and acknowledged below.

THE ENGINEER

(Signature)
Randy Winston, P.E.
(Printed Name)

President
(Title)

(Date)

THE AUTHORITY

(Signature)
Pilar Rodriguez, P.E.
(Printed Name)

Executive Director
(Title)

(Date)

LIST OF EXHIBITS

Exhibit B	Services to be provided by the Surveyor
Exhibit C	Work Schedule
Exhibit D	Fee Schedule/Budget
Exhibit H-2	Parcel Exhibits amended as noted in Exhibit H- 2

*Contract Amendment No. 1 to Professional Service Agreement with HCRMA Professional Services for SWG.
for the 365 Tollway (Formerly SH 365) SEGS. 1 & 2 LIMITS
FROM 0.8 MI. W. FM 396 / ANZ. HWY. TO US 281*

AMENDMENT TO OWNER-ENGINEER AGREEMENT
Amendment No. 1

The Effective Date of this Amendment is: _____.

Background Data

Effective Date of Owner-Engineer Agreement: June 13, 2024

Owner: Hidalgo County Regional Mobility Authority (HCRMA)

Engineer: Sigler, Winston, Greenwood & Assoc.

Project: Provide Construction Field Crossings, Conduct Construction Reviews; Monitor Workmanship and Materials Incorporated into Work; Witness Verification Sampling and Testing When Required; and Mitigate Plans and Specifications with Irrigation Entities within Construction Limits of a 12.4 Mile Tolloed Facility From FM 396 & GSA Connector to US 281 (Military Highway)

Nature of Amendment: [Check those that are applicable and delete those that are inapplicable.]

- _____ Additional Services to be performed by Engineer
- _____ Modifications to services of Engineer
- _____ Modifications to responsibilities of Owner
- X** Modifications of payment to Engineer
- X** Modifications to time(s) for rendering services
- _____ Modifications to other terms and conditions of the Agreement

Description of Modifications:

RPR Services	(4) hours a day, five (5) days a week Not to exceed a seven (7) month construction period
Total	\$45,000.00

Agreement Summary:

Original agreement amount:	\$50,000.00
Net change for prior amendments:	\$NA
This amendment amount:	\$45,000.00
Adjusted Agreement amount:	\$95,000.00

Change in time for services (days or date, as applicable): July 25, 2025 (End of construction and project close-out)

The foregoing Agreement Summary is for reference only and does not alter the terms of the Agreement.

Owner and Engineer hereby agree to modify the above-referenced Agreement as set forth in this Amendment. All provisions of the Agreement not modified by this or previous Amendments remain in effect.

OWNER:

HIDALGO COUNTY REGIONAL MOBILITY
AUTHORITY (HCRMA)

By: _____
Print
name: _____

Title: _____

Date Signed: _____

ENGINEER:

SIGLER, WINSTON, GREENWOOD & ASSOC.

By: *Randy Winston, P.E.*
Print
name: Randy Winston, P.E.

Title: President

Date Signed: January 21, 2025

ORIGINAL
PROFESSIONAL SERVICE AGREEMENT
SWG ENGINEERING, LLC

SHORT FORM OF AGREEMENT BETWEEN OWNER AND ENGINEER FOR PROFESSIONAL SERVICES

THIS IS AN AGREEMENT effective as of _____ (“Effective Date”) between

HIDALGO COUNTY REGIONAL MOBILITY AUTHORITY (HCRMA) (“Owner”)

and SWG ENGINEERING, LLC (“Engineer”)

Engineer agrees to provide the services described below to Owner for PROFESSIONAL ENGINEERING SERVICES

Description of Engineer’s Services: PROVIDE CONSTRUCTION FIELD CROSSINGS, CONDUCT CONSTRUCTION REVIEWS; MONITOR THE WORKMANSHIP AND MATERIALS INCORPORATED INTO WORK; WITNESS VERIFICATION SAMPLING AND TESTING WHEN REQUIRED; AND, MITIGATE PLANS AND SPECIFICATIONS WITH IRRIGATION ENTITIES WITHIN CONSTRUCTION LIMITS OF A 12.4 MILE TOLLED FACILITY FROM FM 396 & GSA CONNECTOR TO US 281 (MILITARY HIGHWAY) (“Project”)

Owner and Engineer further agree as follows:

1.01 Basic Agreement

A. Engineer shall provide, or cause to be provided, the services set forth in this Agreement, and Owner shall pay Engineer for such Services as set forth in Paragraph 9.01.

2.01 Payment Procedures

A. *Preparation of Invoices.* Engineer will prepare a monthly invoice in accordance with Engineer’s standard invoicing practices and submit the invoice to Owner.

B. *Payment of Invoices.* Invoices are due and payable within 30 days of receipt. If Owner fails to make any payment due Engineer for services and expenses within 30 days after receipt of Engineer’s invoice, the amounts due Engineer will be increased at the rate of 1.0% per month (or the maximum rate of interest permitted by law, if less) from said thirtieth day. In addition, Engineer may, without liability, after giving

seven days written notice to Owner, suspend services under this Agreement until Engineer has been paid in full all amounts due for services, expenses, and other related charges. Payments will be credited first to interest and then to principal.

3.01 Additional Services

A. If authorized by Owner, or if required because of changes in the Project, Engineer shall furnish services in addition to those set forth above.

B. Owner shall pay Engineer for such additional services as follows: For additional services of Engineer’s employees engaged directly on the Project an amount equal to the cumulative hours charged to the Project by each class of Engineer’s employees times standard hourly rates for each applicable billing class; plus reimbursable expenses and Engineer’s consultants’ charges, if any.

1. delivered in person to the individual or to a member of the firm or to an officer of the corporation for whom it is intended; or
2. delivered at or sent by registered or certified mail, postage prepaid, to the last business address known to the giver of the notice.

17.02 *Computation of Times*

- A. When any period of time is referred to in the Contract Documents by days, it will be computed to exclude the first and include the last day of such period. If the last day of any such period falls on a Saturday or Sunday or on a day made a legal holiday by the law of the applicable jurisdiction, such day will be omitted from the computation.

17.03 *Cumulative Remedies*

- A. The duties and obligations imposed by these General Conditions and the rights and remedies available hereunder to the parties hereto are in addition to, and are not to be construed in any way as a limitation of, any rights and remedies available to any or all of them which are otherwise imposed or available by Laws or Regulations, by special warranty or guarantee, or by other provisions of the Contract Documents. The provisions of this Paragraph will be as effective as if repeated specifically in the Contract Documents in connection with each particular duty, obligation, right, and remedy to which they apply.

17.04 *Survival of Obligations*

- A. All representations, indemnifications, warranties, and guarantees made in, required by, or given in accordance with the Contract Documents, as well as all continuing obligations indicated in the Contract Documents, will survive final payment, completion, and acceptance of the Work or termination or completion of the Contract or termination of the services of Contractor.

17.05 *Controlling Law*

- A. This Contract is to be governed by the law of the state in which the Project is located.

17.06 *Headings*

- A. Article and paragraph headings are inserted for convenience only and do not constitute parts of these General Conditions.

4.01 Termination

A. The obligation to provide further services under this Agreement may be terminated:

1. For cause,

a. By either party upon 30 days written notice in the event of substantial failure by the other party to perform in accordance with the Agreement's terms through no fault of the terminating party.

b. By Engineer:

1) upon seven days written notice if Engineer believes that Engineer is being requested by Owner to furnish or perform services contrary to Engineer's responsibilities as a licensed professional; or

2) upon seven days written notice if the Engineer's services for the Project are delayed or suspended for more than 90 days for reasons beyond Engineer's control.

3) Engineer shall have no liability to Owner on account of such termination.

c. Notwithstanding the foregoing, this Agreement will not terminate as a result of a substantial failure under paragraph 4.01.A.1.a if the party receiving such notice begins, within seven days of receipt of such notice, to correct its failure and proceeds diligently to cure such failure within no more than 30 days of receipt of notice; provided, however, that if and to the extent such substantial failure cannot be reasonably cured within such 30 day period, and if such party has diligently attempted to cure the same and thereafter continues diligently to cure the same, then the cure period provided for herein shall extend up to, but in no case more than, 60 days after the date of receipt of the notice.

2. For convenience, by Owner effective upon the receipt of notice by Engineer.

B. The terminating party under paragraphs 4.01.A.1 or 4.01.A.2 may set the effective date of termination at a time up to 30 days later than otherwise provided to allow Engineer to demobilize personnel and equipment from the Project site, to complete tasks whose value would otherwise be lost, to prepare notes as to the status of completed and uncompleted tasks, and to assemble Project materials in orderly files.

5.01 Controlling Law

A. This Agreement is to be governed by the law of the state in which the Project is located.

6.01 Successors, Assigns, and Beneficiaries

A. Owner and Engineer each is hereby bound and the partners, successors, executors, administrators, and legal representatives of Owner and Engineer (and to the extent permitted by paragraph 6.01.B the assigns of Owner and Engineer) are hereby bound to the other party to this Agreement and to the partners, successors, executors, administrators, and legal representatives (and said assigns) of such other party, in respect of all covenants, agreements, and obligations of this Agreement.

B. Neither Owner nor Engineer may assign, sublet, or transfer any rights under or interest (including, but without limitation, moneys that are due or may become due) in this Agreement without the written consent of the other, except to the extent that any assignment, subletting, or transfer is mandated or restricted by law. Unless specifically stated to the contrary in any written consent to an assignment, no assignment will release or discharge the assignor from any duty or responsibility under this Agreement.

7.01 General Considerations

A. The standard of care for all professional engineering and related services performed or furnished by Engineer under this Agreement will be the care and skill ordinarily used by members of the subject profession practicing under similar circumstances at the same time

and in the same locality. Engineer makes no warranties, express or implied, under this Agreement or otherwise, in connection with Engineer's services. Engineer and its consultants may use or rely upon the design services of others, including, but not limited to, contractors, manufacturers, and suppliers.

B. Engineer shall not at any time supervise, direct, or have control over any contractor's work, nor shall Engineer have authority over or responsibility for the means, methods, techniques, sequences, or procedures of construction selected or used by any contractor, for safety precautions and programs incident to a contractor's work progress, nor for any failure of any contractor to comply with laws and regulations applicable to contractor's work.

C. Engineer neither guarantees the performance of any contractor nor assumes responsibility for any contractor's failure to furnish and perform its work in accordance with the contract between Owner and such contractor.

D. Engineer shall not be responsible for the acts or omissions of any contractor, subcontractor, or supplier, or of any contractor's agents or employees or any other persons (except Engineer's own employees) at the Project site or otherwise furnishing or performing any of construction work; or for any decision made on interpretations or clarifications of the construction contract given by Owner without consultation and advice of Engineer.

E. The general conditions for any construction contract documents prepared hereunder are to be the "Standard General Conditions of the Construction Contract" as prepared by the Engineers Joint Contract Documents Committee (No. C-700, 2002 Edition).

F. All design documents prepared or furnished by Engineer are instruments of service, and Engineer retains an ownership and property interest (including the copyright and the right of reuse) in such documents, whether or not the Project is completed.

G. To the fullest extent permitted by law, Owner and Engineer (1) waive against each other, and the other's employees, officers, directors, agents, insurers, partners, and consultants, any and all claims for or entitlement to

special, incidental, indirect, or consequential damages arising out of, resulting from, or in any way related to the Project, and (2) agree that Engineer's total liability to Owner under this Agreement shall be limited to \$50,000 or the total amount of compensation received by Engineer, whichever is greater.

H. The parties acknowledge that Engineer's scope of services does not include any services related to a Hazardous Environmental Condition (the presence of asbestos, PCBs, petroleum, hazardous substances or waste, and radioactive materials). If Engineer or any other party encounters a Hazardous Environmental Condition, Engineer may, at its option and without liability for consequential or any other damages, suspend performance of services on the portion of the Project affected thereby until Owner: (i) retains appropriate specialist consultants or contractors to identify and, as appropriate, abate, remediate, or remove the Hazardous Environmental Condition; and (ii) warrants that the Site is in full compliance with applicable Laws and Regulations.

8.01 Total Agreement

A. This Agreement (consisting of pages 1 to 4 inclusive together with any expressly incorporated appendix), constitutes the entire agreement between Owner and Engineer and supersedes all prior written or oral understandings. This Agreement may only be amended, supplemented, modified, or canceled by a duly executed written instrument.

9.01 Payment (Lump Sum Basis)

A. Using the procedures set forth in paragraph 2.01, Owner shall pay Engineer as follows:

Lump Sum Fee Not to exceed \$50,000.00 for four (4) hours a day, five (5) days a week not to exceed an eight (8) month construction period.

Additional services will be billed on an hourly basis as per Attachment "A" - SWG Hourly Rates schedule.

B. This Agreement shall commence on the Effective Date as indicated on Page 1 and continue until terminated by either party as per the terms under 4.01 of this Agreement.

IN WITNESS WHEREOF, the parties hereto have executed this Agreement, the Effective Date of which is indicated on page 1.

OWNER: Hidalgo County Regional Mobility Authority

ENGINEER: SWG Engineering, LLC

By: Pilar Rodriguez

By: Randy Winston, P.E.

Title: Executive Director

Title: President

Date Signed: 6/13/2024

Date Signed: 5/9/2024

License No. and State F-592 Texas

Address for giving notices:

Address for giving notices:

203 W. Newcombe Ave.

611 Bill Summers Intl Blvd.

Pharr, TX 78577

Weslaco, TX 78596

4 of 4

EJCDC E-520 Short Form of Agreement Between Owner and Engineer for Professional Services
Copyright © 2002 National Society of Professional Engineers for EJCDC. All rights reserved.

ATTACHMENT "A"
SWG HOURLY RATES SCHEDULE
2024

Senior Engineer	285.00/hr.
Licensed Staff Engineer	250.00/hr.
Certified Flood Plain Manager	150.00/hr.
Engineer in Training (EIT)	150.00/hr.
Project Manager	150.00/hr.
CADD Technician	125.00/hr.
Engineering Analyst	75.00/hr.
Engineering Technical Specialist	150.00/hr.
GPS Field Crew – 2 man	250.00/hr.
Resident Project Representative	125.00/hr.
Administrative Assistant	85.00/hr.
Clerical	50.00/hr.
Mileage	0.625/mi.
Other Expenses	Cost + 30%

**HIDALGO COUNTY REGIONAL MOBILITY AUTHORITY
PROFESSIONAL SERVICES CONTRACT**

ADDENDUM

This Contract Addendum (the "Addendum") modifies that certain Short Form of Agreement between Owner and Engineer for Professional Services (the "Contract") by and between the Hidalgo County Regional Mobility Authority ("Owner" or "Authority") and SWG Engineering, LLC ("Engineer"). Capitalized terms not defined herein shall have the meaning ascribed to them in the Contract. This Addendum shall be incorporated wholly into the Contract; and, where terms in this Addendum contradict terms in the Contract, the terms in this Addendum shall prevail.

1. Professional Services. The Engineer is licensed in the State of Texas. The Engineer agrees that it satisfies the Requirements provided in Attachment A and has executed Attachment A to evidence its compliance. The Contract is not for construction services. Any reference to the "Standard General Conditions of the Construction Contract" as prepared by the Engineers Joint Contract Documents Committee (No. C-700, 2002 Edition) do not apply to this Contract.
2. Compensation. The Contract is subject to a not to exceed amount as stated in the approving resolution attached hereto as Attachment B. The Contract is a lump sum contract for the scope of services, with potential for additional services to be provided at the agreed hourly rates. The Contract will be implemented through one or more work authorization.
3. Engineer's Responsibility. The Engineer shall be responsible for the accuracy, completeness, and correctness of work, plans, and data prepared under this Contract and shall check all such material accordingly for, but not limited to, completeness, missing items, correct multipliers, and consistency. Acceptance of the work by the Authority will not relieve the Engineer of the responsibility for subsequent correction of any errors and the clarification of any ambiguities. The Engineer shall promptly make necessary revisions or corrections resulting from errors, omissions, or negligent acts without additional compensation. The Engineer's seal shall be endorsed and affixed to plans, reports, and engineering data furnished under this Contract.
4. Work Produced. All Work produced or approved or otherwise created by the Engineer under this Contract shall be transmitted to the Owner in the form of photocopy reproduction on a monthly basis. The originals of all Work shall remain property of the Authority. Should the Authority determine that the progress in production of the work does not satisfy the work schedule of any given Work Authorization, the Authority will review the work schedule with the Engineer to determine corrective action needed.
5. Subcontracting. The Engineer was chosen to perform work under this Contract based upon the training and qualifications of its members. Therefore, subcontracting, assignment, or transfer of any work to subconsultants, unless approved in writing by the Authority prior to performance of work, is expressly prohibited. All subcontracts shall include the provisions required in the Contract, including this Addendum, and shall be approved as to form, in writing, by the Authority prior to its execution


6. **Payment Procedures.** The Owner's payment schedule is attached hereto as **Attachment C.** The Engineer shall be paid in accordance with the schedule, which may be revised from time to time. Owner will notify Engineer of any revision to the schedule. Owner is subject to the Texas Prompt Payment Act (Chapter 2251, Texas Government Code). No interest or suspension of service will apply to late payments; however, failure to pay will be an event of default and a termination event pursuant to the terms of the Contract. The Owner reserves the right to withhold payment pending verification of satisfactory work.
7. **Record Retention.** The Engineer shall maintain all records pertaining to cost incurred and shall make such records available during the Contract period and for four years from the date of final payment under this Contract or until pending litigation has been completely and fully resolved, whichever occurs last. The Authority or any of its duly authorized representatives shall have access to any all records of the Engineer which are directly pertinent to this Contract for the purpose of making audits, examinations, excerpts, transcriptions and for checking the amount of work performed by the Engineer.
8. **Indemnification.** THE ENGINEER SHALL SAVE AND HOLD HARMLESS THE OWNER AND ITS OFFICERS, EMPLOYEES, AND CONSULTANTS FROM ALL CLAIMS, LIABILITY, ACTION, AND LOSS (INCLUDING DAMAGE OR INJURY INCLUDING DEATH TO PERSONS OR PROPERTY) DUE TO ACTIVITIES OF ITSELF, ITS AGENTS, SUBCONTRACTORS, OR EMPLOYEES PERFORMED UNDER THIS CONTRACT AND WHICH ARE CAUSED BY OR RESULT FROM ERROR, OMISSION, OR NEGLIGENT ACT, INCLUDING ANY VIOLATION OF ANY STATUTES, ORDINANCES, BUILDING CODES OR REGULATIONS, OF THE ENGINEER OR OF THE PERSON EMPLOYED OR ENGAGED BY THE ENGINEER, AND THE DEFENSE OF ANY SUCH CLAIMS, LIABILITY, ACTION, OR LOSS.
- THE ENGINEER SHALL ALSO INDEMNIFY THE AUTHORITY AGAINST ALL LIABILITY AND LOSS IN CONNECTION WITH, AND SHALL ASSUME FULL RESPONSIBILITY FOR, PAYMENT OF ALL FEDERAL, STATE, AND LOCAL TAXES OR CONTRIBUTIONS IMPOSED OR REQUIRED UNDER UNEMPLOYMENT INSURANCE, SOCIAL SECURITY AND INCOME TAX LAWS, WITH RESPECT TO THE ENGINEER AND THE ENGINEER'S EMPLOYEES, IF ANY, ENGAGED IN PERFORMANCE OF THIS CONTRACT.
- THE ENGINEER SHALL ALSO SAVE AND HOLD HARMLESS THE AUTHORITY FROM ANY AND ALL EXPENSE, INCLUDING, BUT NOT LIMITED TO, REASONABLE ATTORNEY FEES WHICH MAY BE INCURRED BY THE AUTHORITY OR LIABILITIES WHICH MAY BE IMPOSED ON THE AUTHORITY AS THE RESULT OF SUCH ERROR, OMISSION, OR NEGLIGENT ACT BY THE ENGINEER, ITS AGENTS, ITS SUBCONTRACTORS, OR EMPLOYEES.
9. **Insurance.** The Engineer shall obtain and maintain insurance limits of liability for each of the types of insurance identified in **Attachment D.**
10. **No Consequential Damages.** To the fullest extent permitted by law, Owner and Engineer waive against each other, and the other's employees, officers, directors, agents, insurers, partners, and

consultants, any and all claims for, or entitlement to, special, incidental, indirect, or consequential damages arising out of, resulting from, or in any way related to the Project. Owner does not agree to any caps on Engineer's liability.

11. Termination. Owner may terminate the Contract with or without cause upon notice to Engineer. Engineer may terminate the Contract for cause with fifteen days' written notice to Owner.
12. Controlling Law and Venue. The Contract, including this Addendum, shall be governed by the laws of the State of Texas. Venue for any dispute arising from the Contract, including this Addendum, shall be resolved in the state district courts in Hidalgo County, Texas.
13. Severability. In the event any one or more of the provisions contained in this Contract, for any reason, shall be held to be invalid, illegal, or unenforceable in any respect, such invalidity, illegality, or unenforceability shall not affect any other provision thereof; and this Contract shall be construed as if such invalid, illegal, or unenforceable provision had never been contained herein.
14. Amendment. Any modifications, amendments, or additions to the Contract shall be in writing and agreed to by the Parties herein.
15. Time is of the Essence. The parties agree time is of the essence in the performance of this Contract.
16. Counterparts. This Addendum may be executed by the parties in counterpart.

OWNER

Hidalgo County Regional Mobility
Authority

By: 
Name: Pilar Rodriguez, PE
Title: Executive Director
Date: 6/13/2024

ENGINEER

SWG Engineering LLC



BY:

Name: Randy Winston, PE

Title: President

Date: 6/13/2024

License No. and State Texas No. 70417

THIS ITEM WILL BE
SENT UNDER
SEPERATE COVER

This Page
Intentionally
Left Blank

Item 4D

HIDALGO COUNTY REGIONAL MOBILITY AUTHORITY

AGENDA RECOMMENDATION FORM

BOARD OF DIRECTORS	<u> X </u>	AGENDA ITEM	<u> 4D </u>
PLANNING COMMITTEE	<u> </u>	DATE SUBMITTED	<u> 1/16/2025 </u>
FINANCE COMMITTEE	<u> </u>	MEETING DATE	<u> 1/24/2025 </u>
TECHNICAL COMMITTEE	<u> </u>		

1. Agenda Item: **RESOLUTION 2025-05 – CONSIDERATION AND APPROVAL OF WORK AUTHORIZATION NUMBER 3 TO THE PROFESSIONAL SERVICE AGREEMENT WITH TERRACON CONSULTANTS, INC. TO PROVIDE CONSTRUCTION MATERIAL TESTING FOR THE 365 TOLLWAY PROJECT.**

2. Nature of Request: (Brief Overview) Attachments: X Yes No
Approval of Resolution 2025-05 for WA No. 3.

3. Policy Implication: Board Policy, Local Government Code, Texas Government Code, Texas Transportation Code, TxDOT Policy

4. Budgeted: Yes No X N/A

5. Staff Recommendation: **Motion to approve Resolution 2025-05 – Consideration and Approval of Work Authorization Number 3 to the Professional Service Agreement with Terracon Consultants, Inc. to provide Construction Material Testing for the 365 Tollway Project, as presented.**

6. Program Manager's Recommendation: Approved Disapproved X None
7. Planning Committee's Recommendation: Approved Disapproved X None
8. Board Attorney's Recommendation: Approved Disapproved X None
9. Chief Auditor's Recommendation: Approved Disapproved X None
10. Chief Financial Officer's Recommendation: Approved Disapproved X None
10. Chief Development Engineer's Recommendation: Approved Disapproved X None
11. Chief Construction Engineer's Recommendation: X Approved Disapproved X None
12. Executive Director's Recommendation: X Approved Disapproved None



Memorandum

To: Pilar Rodriguez, P.E
HCRMA, Executive Director

From: Ramon Navarro, IV, P.E., C.F.M.
HCRMA, Chief Construction Engineer

Date: January 17, 2025

Subject: RESOLUTION 2025-05 CONSIDERATION AND APPROVAL OF WORK AUTHORIZATION NUMBER 3 TO THE PROFESSIONAL SERVICE AGREEMENT WITH TERRACON CONSULTANTS, INC. FOR CONSTRUCTION MATERIAL TESTING FOR THE 365 TOLLWAY PROJECT.

GOAL

Approval and authorization to enter into Work Authorization 3 for Construction Material Testing Services with Terracon Consultants, INC. .

HISTORY

On September 21, 2021 a main contract for an “indefinite delivery/indefinite quantity [IDIQ]” set of rates was issued to Terracon Consultants, INC. to provide construction materials testing to assure the materials incorporated into 12.3 miles of concrete paving section on Phase II of 365 Toll highway construction project are subject to verification sampling and testing when needed and meet project plans and specifications.

Terracon Consultants, INC. have agreed to Provide construction materials testing to assure the materials incorporated into 5.85 miles of Segment 1 [From McColl Road to US281] on Phase II of 365 Toll highway construction project are subject to verification sampling and testing when required and meet project plans and specifications; and administering Quality Monitoring and Quality Assurance Program on: grading, cement, flexible base, lime treated subgrade, asphaltic concrete pavement, concrete pavement, signing and pavement markings, cross culverts, bridge structures, retaining walls, illumination and toll equipment

RECOMMENDATION

Staff recommends approval of Work Authorization Number 3 to the Professional Service Agreement with Terracon Consultants, Inc. for Construction Material Testing of segment 1 for the 365 Tollway Project in the amount of \$2,200,000.



- ☒ CMT Services **Terracon Consulting Engineers**
- ☐ Environmental
- ☐ Engineering
- ☐ Geo-Technical
- ☐ Surveying

WORK AUTHORIZATION SUMMARY

RESOLUTION ~~2025-06-~~

Work Authorization # 3 Supplemental # _____

Amount \$ 2,200,000.00

Approved Work Authorizations

Resolutions	Description	Amount
2021-39	WA1 -CMT Testing for Roadway Items 365 Toll	\$ 1,950,258.64
2022-30	WA2 -CMT Archeological Sites TX Hist. Permits	\$ 174,773.04
2023-52	WA 2 SA 1 - No Cost Time Extension	\$ 0.00

Subtotal from Cont. Page \$ 0.00

Total Approved WA \$ 2,125,031.68

Proposed Work Authorization and/or Supplemental

2025-06	WA3 Professional Service Agreement	\$ 2,200,000.00
---------	------------------------------------	------------------------

Consideration and Approval of Contract Amendment Number 2 to the Professional Service Agreement with Terracon Consultants, Inc. to increase maximum payable amount for Work Authorization Number 3.

:

Staff is recommending approval of this request in the amount of \$ 2,200,000.00
Proposed total approved WA and/or Supplementals \$ 4,325,031.68

R. Navarro IV, Cons Eng
Requested By:

HIDALGO COUNTY REGIONAL MOBILITY AUTHORITY

BOARD RESOLUTION No. 2025-05

**CONSIDERATION AND APPROVAL OF WORK AUTHORIZATION 3 TO THE
PROFESSIONAL SERVICE AGREEMENT WITH TERRACON TO PROVIDE
CMT FOR THE 365 TOLLWAY PROJECT**

THIS RESOLUTION is adopted this 24th day of January, 2025, by the Board of Directors of the Hidalgo County Regional Mobility Authority at a regular meeting.

WHEREAS, the Hidalgo County Regional Mobility Authority (the “Authority”), acting through its Board of Directors (the “Board”), is a regional mobility authority created pursuant to Chapter 370, Texas Transportation Code, as amended (the “Act”);

WHEREAS, the Authority is authorized by the Act to address mobility issues in and around Hidalgo County;

WHEREAS, on February 19, 2014, the Authority issued a solicitation for Statements of Qualification for Construction Material Testing Services for the Authority (the “Solicitation”); and

WHEREAS, on March 21, 2014 the Authority received responses to the Solicitation; and

WHEREAS, on April 23, 2014, Resolution 2014-38 authorized Authority staff to negotiate and enter into agreements with the top three scored firms (Raba Kistner Consultants Inc., L&G Laboratories and Terracon Consultants, Inc.) for Construction Material Testing Services (the “Services”); and

WHEREAS, on July 24, 2018, Resolution 2018-45 authorized Authority staff to procure one additional lab to provide additional Services; and

WHEREAS, on July 29, 2018, the Authority published a second Solicitation; and received three (3) responses, of which only one was deemed responsive;

WHEREAS, on September 25, 2018, the Authority authorized staff to negotiate contract terms for the Services to PaveTex Engineering LLC, dba PAVETEX, the sole responsive firm that met the professional services criteria set forth in the Solicitation;

WHEREAS, on August 21, 2020, the Authority received five (5) sealed statements of qualification packets. An internal committee of three HCRMA staff engineers ranked and reviewed; the Authority determined it necessary to negotiate contract terms to enter into negotiations with each of the ranked firms and further approach Board with recommended award and distribution of work in accordance to acceptable terms and conditions of assignments; and

WHEREAS on October 27, 2020, the Authority approved Resolution 2020- 28 Approval to enter into negotiations with each of the short-listed firms for Construction Material Testing for the Hidalgo County Regional Mobility Authority and further approach Board with recommended award and distribution of work in accordance to acceptable terms and conditions of assignments; and

WHEREAS on September 28, 2021, the Hidalgo County Regional Mobility Authority approved Resolution 2021-38 Approval of Award of Contract by and between the Terracon Consultants, Inc., and the Hidalgo County Regional Mobility Authority for Construction Material Testing Services in the amount of \$1,950,258.64; and,

WHEREAS on September 28, 2021, Authority approved Resolution 2021-39 Approval of Work Authorization 1 to the professional Service Agreement with Terracon, Inc., for Construction Material Testing in the 365 Tollway Project in the amount of \$1,950,258.64; and

WHEREAS on April 26, 2022, the Authority to approved Resolution 2022-30 Approval of Award of Contract by and between the Terracon Consultants, Inc., and the Hidalgo County Regional Mobility Authority in the amount of \$174,773.04 with Terracon Consultants Inc. for investigative construction materials testing of archaeological sites for the Texas Historical Commission permit on the 365 Tollway Project; and

WHEREAS, on December 12, 2023, the Authority approved Resolutions 2023-52 – Consideration and approval of Work Authorization 2 Supplemental 1 to the Professional Services Agreement with Terracon for a no-cost time extension to provide CMT Archaeological site for the Texas Commission Permit for the 365 Tollway Project; and

WHEREAS, the Authority finds it necessary to approve Resolutions 2025-05 – Consideration and approval of Work Authorization 3 to the Professional Services Agreement with Terracon for construction materials testing for the 365 Tollway Project in the amount of \$2,200,000.

NOW THEREFORE, BE IT RESOLVED, BY THE BOARD OF
DIRECTORS OF THE HIDALGO COUNTY REGIONAL MOBILITY
AUTHORITY THAT:

- Section 1. The recital clauses are incorporated in the text of this Resolution as if fully restated.
- Section 2. The Board hereby approves Work Authorization 3 to the Professional Service Agreement with Terracon Consultants, Inc., to provide Construction Material Testing Services, hereto attached as Exhibit A.
- Section 3. The Board authorizes the Executive Director to execute the Work Authorization 3 to the Professional Service Agreement with Terracon Consultants, Inc., to provide Construction Material Testing services to the Hidalgo County Regional Mobility Authority.

PASSED AND APPROVED AS TO BE EFFECTIVE IMMEDIATELY BY THE BOARD OF DIRECTORS OF THE HIDALGO COUNTY REGIONAL MOBILITY AUTHORITY AT A REGULAR MEETING, duly posted and noticed, on the 24th day of January 2025, at which meeting a quorum was present.

Robert L. Lozano, Chairman

Juan Carlos Del Ángel, Secretary/Treasurer

Exhibit A

Work Authorization 3
Professional Service Agreement with
Terracon Consultants, Inc.
For
Construction Material Testing Services

ATTACHMENT C
SERVICES TO BE PROVIDED BY THE ENGINEER

APPLICABILITY:

Wherever the following terms are used in this attachment or other contract documents, the intent and meaning will be interpreted as indicated below.

ABBREVIATIONS, ABBREVIATIONS, and DEFINITIONS:

HCRMA OR AUTHORITY shall mean Hidalgo County Regional Mobility Authority
PMC (GEC) shall mean Program Management Consultant (General Engineering Consultant) (Dannenbaum Engineering Corporation)
ENGINEER shall mean B2Z Engineering, LLC
TxDOT shall mean Texas Department of Transportation
FHWA shall mean Federal Highway Administration
IBWC shall mean International Boundary and Water Commission
USFWS shall mean United States Fish & Wildlife Service
THC shall mean Texas Historical Commission
SHPO shall mean State Highway Preservation Office
USACE shall mean United States Army Corps of Engineers
GSA shall mean General Services Administration
HCMPO shall mean Hidalgo County Metropolitan Planning Organization
FAA shall mean Federal Aviation Administration
MTP shall mean Metropolitan Transportation Plan
TIP shall mean Transportation Improvement Program
MUTCD shall mean Manual of Uniform Traffic Control Devices
AASHTO shall mean American Association of State Highway and Transportation Officials
LRFD shall mean Load & Resistance Factor Design
PS&E shall mean Plans, Specifications and Estimate
ACP shall mean Asphaltic Concrete Pavement
CSJ shall mean Control Section Job (highway project designation number)
ADP shall mean Advance Project Development
AAP
AASHTO Accreditation Program (AASHTO re:source and CCRL) American Association of State Highway Transportation Officials
ACI American Concrete Institute
AO Area Office
AQMP Aggregate Quality Monitoring Program
CAR Corrective Action Report
CCRL Concrete and Cement Reference Laboratory
CE&I Construction Engineering and Inspection
CFR Code of Federal Regulations
MTD Materials and Tests Division
CMEC Construction Materials Engineering Council
FHWA Federal Highway Administration
HMA Hot-Mix Asphalt
HMAC Hot-Mix Asphalt Center
IA Independent Assurance
L-A-B Laboratory Accreditation Bureau
MPL Material Producer List
QAP Quality Assurance Program
QAT Quality Assurance Test
QC Quality Control
SM SiteManager
TXAPA Texas Asphalt Pavement Association
TxDOT Texas Department of Transportation

ATTACHMENT C
SERVICES TO BE PROVIDED BY THE ENGINEER
PROJECT DESCRIPTION

The services designated herein as “Services provided by the Engineer” shall include the performance of all engineering services for the following described facility:

County/HCRMA: Hidalgo County

CSJ number: 0921-02-368

Project/Description: Provide construction materials testing to assure the materials incorporated into 5.85 miles of Segment 1 [From McColl Road to US281] on Phase II of 365 Toll highway construction project are subject to verification sampling and testing when required and meet project plans and specifications; and administering Quality Monitoring and Quality Assurance Program. Overall project consists of construction of a 12.4 mile tolled facility from FM 396 & GSA Connector to US 281 (Military Highway). which consists of: of grading. flexible base. lime treated subgrade. asphaltic concrete pavement. concrete pavement. signing and pavement markings. cross culverts. bridge structures. retaining walls. illumination and toll equipment

Length: 5.85 Miles (Approx)

Highway: 365TOLL

Limits: (See Location Map Attached)

Contract is for “indefinite delivery/indefinite quantity [IDIQ] set for a proposed three (3) year fixed period of time, during that period of time the Engineer will be responsible for an unlimited number of separate projects, or additional work on a current project to be issued on an individual work order basis.

The Engineer agency(s) must be accredited by one of the following FHWA- and TxDOT-approved accrediting bodies:

- A. AASHTO Accreditation Program (AAP);
- B. Construction Materials Engineering Council (CMEC); or
- C. Laboratory Accreditation Bureau (L-A-B)

The Engineer shall have Texas Department of Transportation or Toll Authority/Regional Mobility Authority as well U.S. Army Corps of Engineers’ construction material testing experience and is expected to work directly with the HCRMA Construction Division, namely, the Chief Construction Engineer for the Authority. The selected Engineer(s) may also perform certain tasks under the oversight of the HCRMA's General Engineering Consultant (Currently HDR Engineering Inc.).

To avoid an appearance of a conflict of interest, any qualified Engineer agency (laboratory) shall perform only one of the following types of testing on the same project:

- A. Quality control testing;
- B. Quality acceptance testing;
- C. Owner verification testing;
- D. Independent assurance testing; or
- E. Referee testing.

The selected Engineer(s) shall have adequate experienced staff and a workload free from constraints to provide the necessary construction material testing for the HCRMA. Staff expertise is to include a Licensed Professional Engineer and certified, experienced staff proficient with TxDOT testing procedures, sampling and testing schedule, and the latest ASSHTO, ASTM and ACI testing requirements [Appendix A] performed and executed

as per 2019 TxDOT Quality Assurance Program (~~DB-QAP~~ / DBB-QAP) / 2019 Guide Schedule of Sampling & Testing for Design Bid-Build Projects.

Engineer will compose and submit an annual report to the Federal Highway Administration (FHWA) summarizing the results of HCRMA's project specific systems approach program. This report identifies:

- A. Number of sampling and testing personnel evaluated by the systems approach IA testing;
- B. Number of IA evaluations found to be acceptable;
- C. Number of IA evaluations found to be unacceptable; and
- D. Summary of any significant system-wide corrective actions taken.

The Engineer will be responsible for maintaining documentation of all individuals qualified under their authority who perform required tests for acceptance of materials. A qualification summary listing all tests for which an individual is qualified will be available and printed at HCRMA's request. Documentation to be maintained for all qualified personnel includes:

- A. Copies of any certificates issued by ACI and TXAPA ;
- B. Original written examinations for test procedures administered to each technician by the TxDOT qualifying authority, with clear identification of technician's name, qualifier's name, score, and date taken;
- C. Original performance examinations for test procedures administered to each technician by the TxDOT qualifying authority, with clear identification of technician's name, qualifier's name, qualification status, and date;
- D. Results of annual split/proficiency testing administered by the TxDOT qualifying authority for each technician.

Engineer shall perform Quality Control / Quality Assurance sampling and testing and comply with Laboratory Qualification Program and will be evaluated under the Independent Assurance Program, as described in the 2019 QAPDBB [Attachment L]. Quality Control test results will be validated by verification test results obtained from independently taken samples. IA personnel or their designated agents will perform Quality Assurance verification sampling and testing.

1. The Engineer shall perform all sampling and testing of components and materials in accordance with the standard specifications, and all other standard and special specifications and special provisions applicable in this agreement. Meet the minimum sampling frequencies set out in the TxDOT 2019 Guide Schedule for Sampling and Testing for Design Bid-Build Projects. The testing shall include the following materials and all the components of the materials listed. The estimated number of samples and tests are based on quantities in the executed construction contract.

2. The Engineer shall ensure the testing is completed and input into ProjectWise. NOTE: The General Contractor is responsible for Quality Control (QC) testing of Item 360, Concrete Paving. The Engineer shall be responsible for Quality Assurance (QA) testing of Item 360, Concrete Paving.

3. The Engineer shall provide certified personnel, outlined in their internal, AASHTO-approved, Quality Control (QC) Manual that are knowledgeable of all materials testing procedures. All personnel performing acceptance tests must provide certifications and must maintain the certifications throughout the project. The HCRMA reserves the right to require replacement of any technician during this contract if performance is determined to be unsatisfactory or the technician fails to maintain appropriate certifications.

4. Engineer's laboratory will be qualified by the HCRMA qualifying authority in accordance with Section 3, Laboratory Qualification Responsibility of the Texas Department of Transportation (TxDOT) Quality Assurance Program (Manual Notice: 2005-1), and be AASHTO accredited under the AASHTO Accreditation Program (AAP) throughout the life of the project. Engineer shall transmit, to the HCRMA, a copy of AAP accreditation certificate(s) upon receipt by the testing laboratory.

5. The Engineer shall provide technicians certified in accordance with TxDOT Quality Assurance Program for Construction (QAP) or other State approved programs, such as the Texas Asphalt Pavement Association (TxAPA) for Hot Mix Asphalt, and the Soils and Base Certification Program, as listed.

- 6. The Engineer shall provide certified technicians to perform the following tests:
 - A. Hot Mix Asphalt Testing:

Engineer and certified, experienced staff proficient with TxDOT testing procedures, sampling and testing schedule, and the latest ASSHTO, ASTM and ACI testing requirements [Appendix A] performed and executed as per 2019 TxDOT Quality Assurance Program (DB-QAP / DBB-QAP) / 2019 Guide Schedule of Sampling & Testing for Design Bid-Build Projects.

Engineer will compose and submit an annual report to the Federal Highway Administration (FHWA) summarizing the results of HCRMA's project specific systems approach program. This report identifies:

- A. Number of sampling and testing personnel evaluated by the systems approach IA testing;
- B. Number of IA evaluations found to be acceptable;
- C. Number of IA evaluations found to be unacceptable; and
- D. Summary of any significant system-wide corrective actions taken.

The Engineer will be responsible for maintaining documentation of all individuals qualified under their authority who perform required tests for acceptance of materials. A qualification summary listing all tests for which an individual is qualified will be available and printed at HCRMA's request. Documentation to be maintained for all qualified personnel includes:

- A. Copies of any certificates issued by ACI and TXAPA ;
- B. Original written examinations or proof of written exam utilizing TxDOT web-based application for test procedures administered to each technician by the TxDOT qualifying authority, with clear identification of technician's name, qualifier's name, score, and date taken;
- C. Original performance examinations for test procedures administered to each technician by the TxDOT qualifying authority, with clear identification of technician's name, qualifier's name, qualification status, and date;
- D. Results of annual split/proficiency testing administered by the TxDOT qualifying authority for each technician.

Engineer shall perform Quality Control / Quality Assurance sampling and testing and comply with Laboratory Qualification Program and will be evaluated under the Independent Assurance Program, as described in the 2019 QAPDBB [Attachment L]. Quality Control test results will be validated by verification test results obtained from independently taken samples. QA personnel or their designated agents will perform Quality Assurance verification sampling and testing.

1. The Engineer shall perform all sampling and testing of components and materials in accordance with the standard specifications, and all other standard and special specifications and special provisions applicable in this agreement. Meet the minimum sampling frequencies set out in the TxDOT 2019 Guide Schedule for Sampling and Testing for Design Bid-Build Projects. The testing shall include the following materials and all the components of the materials listed. The estimated number of samples and tests are based on quantities in the executed construction contract.

2. The Engineer shall ensure the testing is completed and input into ProjectWise. NOTE: The General Contractor is responsible for Quality Control (QC) testing of Item 360, Concrete Paving. The Engineer shall be responsible for Quality Assurance (QA) testing of Item 360, Concrete Paving.

3. The Engineer shall provide certified personnel, outlined in their internal, AASHTO-approved, Quality Control (QC) Manual that are knowledgeable of all materials testing procedures. All personnel performing acceptance tests must provide certifications and must maintain the certifications throughout the project. The HCRMA reserves the right to require replacement of any technician during this contract if performance is determined to be unsatisfactory or the technician fails to maintain appropriate certifications.

4. Engineer's laboratory will be qualified by the HCRMA qualifying authority in accordance with Section 3, Laboratory Qualification Responsibility of the Texas Department of Transportation (TxDOT) Quality Assurance Program (Manual Notice: 2019-1), and be AASHTO accredited under the AASHTO Accreditation Program (AAP) throughout the life of the project. Engineer shall transmit, to the HCRMA, a copy of AAP accreditation certificate(s) upon receipt by the testing laboratory.

5. The Engineer shall provide technicians certified in accordance with TxDOT Quality Assurance Program for Construction (QAP) or other State approved programs, such as the Texas Asphalt Pavement Association (TxAPA) for Hot Mix Asphalt, and the Soils and Base Certification Program, as listed.

6. The Engineer shall provide certified technicians to perform the following tests:

- A. Hot Mix Asphalt Testing:
 - a. Level 1-A
 - b. Level 1-B
 - c. Hot Mix Asphalt Testing • Level II
 - d. All other tests in the Manual of Testing Procedures 200-F Series or ASTM Procedures not covered in Level 1-A, Level 1-B, or Level II
- B. Concrete Testing:
 - a. QAP Program for Concrete Testing
 - b. Other tests outlined in the Manual of Testing Procedures 400-A Series or ASTM Procedures that are not included in the QAP Program

7. The Engineer shall perform testing on the project. These tests include all tests listed in State's Guide Schedule of Sampling and Testing dated 2019. Follow the State's Guide Schedule of Sampling and Testing to establish testing frequencies. Testing frequencies may be increased as directed by the HCRMA.

8. The Engineer shall notify the HCRMA, to determine if any tests may be waived

9. The Engineer shall attend preconstruction Q A and Q C testing meetings prior to beginning work.

10. The Engineer shall:

- A. Review and recommend approval or rejection of the Quality Control (QC) sampling and testing documentation submitted by the General Contractor for compliance with applicable State and Federal regulations, standards, and contract requirements.
- B. Verify all tested materials used meet specifications or identify materials that do not meet specifications and recommend action which should be taken.
- C. Certify that all tested materials used during construction meet the specifications as outlined in the APPIA Support System.
- D. Work closely with the HCRMA to resolve all material discrepancies before the next monthly estimate is processed by utilizing the Reporting in APPIA.
- E. Enter all test data in APPIA.
- F. Enter all mix designs, concrete and asphalt, provided by the General Contractor into APPIA.
- G. The Engineer shall report failing tests to the HCRMA within twenty-four (24) hours.

SUMMARY OF DELIVERABLES:

The Engineer shall provide the following:

- 1. Monthly Progress Reports
- 2. Quarterly Material Test Reports
- 3. Sampling and testing personnel qualification
- 4. Final document file (maintained in project control system during project execution. Final structure of file will be determined during project implementation, an example of content is provided below)
 - A. Construction Oversight Documentation
 - a. Testing reports and Testing documentation as applicable
 - b. Test Exception Letter
 - c. Certification Verifications
 - d. Photographs
 - B. Project Correspondence File (Design and Construction)
 - a. E-mail files
 - b. Letters
 - c. Memos
 - d. Meeting Minutes
 - e. Monthly Deficiency Reports to track material issues (one (1) per month)
 - f. Misc. correspondence

ATTACHMENT D
WORK AUTHORIZATION

ATTACHMENT D-1

WORK AUTHORIZATION NO. 3 AGREEMENT FOR ENGINEERING SERVICES

THIS WORK AUTHORIZATION is made pursuant to the terms and conditions of “Article V of that certain Professional Services Agreement for Engineering Services” (the Agreement) entered into by and between the Hidalgo County Regional Mobility Authority (Authority), and Terracon Consultants Inc. (the Engineer).

PART I. The Engineer will perform engineering design services generally described as in accordance with the project description attached hereto and made a part of this Work Authorization. The responsibilities of the Authority and the Engineer as well as the work schedule are further detailed in exhibits A, B and C which are attached hereto and made a part of the Work Authorization.

PART II. The maximum amount payable under this Work Authorization is \$ 2,200,000.00 and the method of payment is lump sum as set forth in Attachment E of the Agreement. This amount is based upon fees set forth in Attachment E, Fee Schedule, of the Agreement and the Engineer’s estimated Work Authorization costs included in Exhibit D, Fee Schedule, which is attached and made a part of this Work Authorization.

PART III. Payment to the Engineer for the services established under this Work Authorization shall be made in accordance with Articles III thru V of the Agreement, and Attachment A, Section 1.

PART IV. This Work Authorization shall become effective on the date of final acceptance of the parties hereto and shall terminate on 04/24/2026, unless extended by a supplemental Work Authorization as provided in Attachment A, Section 1.

PART V. This Work Authorization does not waive the parties' responsibilities and obligations provided under “Article V of that certain Professional Services Agreement for Engineering / Design Services 365 Tollway Project / Segment 1 & 2.

IN WITNESS WHEREOF, this Work Authorization is executed in duplicate counterparts and hereby accepted and acknowledged below.

THE ENGINEER

(Signature)
Jorge A Flores, P.G.
(Printed Name)
Client Manager
(Title)

(Date)

THE AUTHORITY

(Signature)
Pilar Rodriguez
(Printed Name)
Executive Director
(Title)

(Date)

SH 385 PhaH I (Sags. 1 & 2) CSJ: 3127-41-401
 - A toll Improvement being a controlled access facility
 - FM 311 (Anzalduh Highway) to US 281 Military Highway
 SH 385 PhaH I (Sag. 3) CSJ: 0221M11-423
 - A non-toll Improvement being a widening to a 4 lane divided w/ an OYer*PIH at San Juan Rd (= part of SH 315 Segment 3)
 - 0.45 Mile East of Spur 200 to FM 2557 (Stewart Road)
 SH 385 PhaH I (Sag. 3) CSJ: 0821-42-337
 - A non-toll Improvement being a local collector (= part of SH 355 Segment 3)
 - SP 21 / Veterans Drive at the BSIF to US 281
 SH 385 PhaH II (Sag. 4) CSJ: 3527-41-402
 - A toll Improvement being a controlled access facility
 - FM 1011 (Conway Ave) to FM 311 (Anzalduh Highway)
 IBTC (Sags. 1, 2 & 3) CSJ: 0121-42-142
 - A toll Improvement being a controlled access facility
 - from the Interchange w/ SH 315 at FM 3072 / Dicker Rd to 12 and to FM 483

***I! MA**

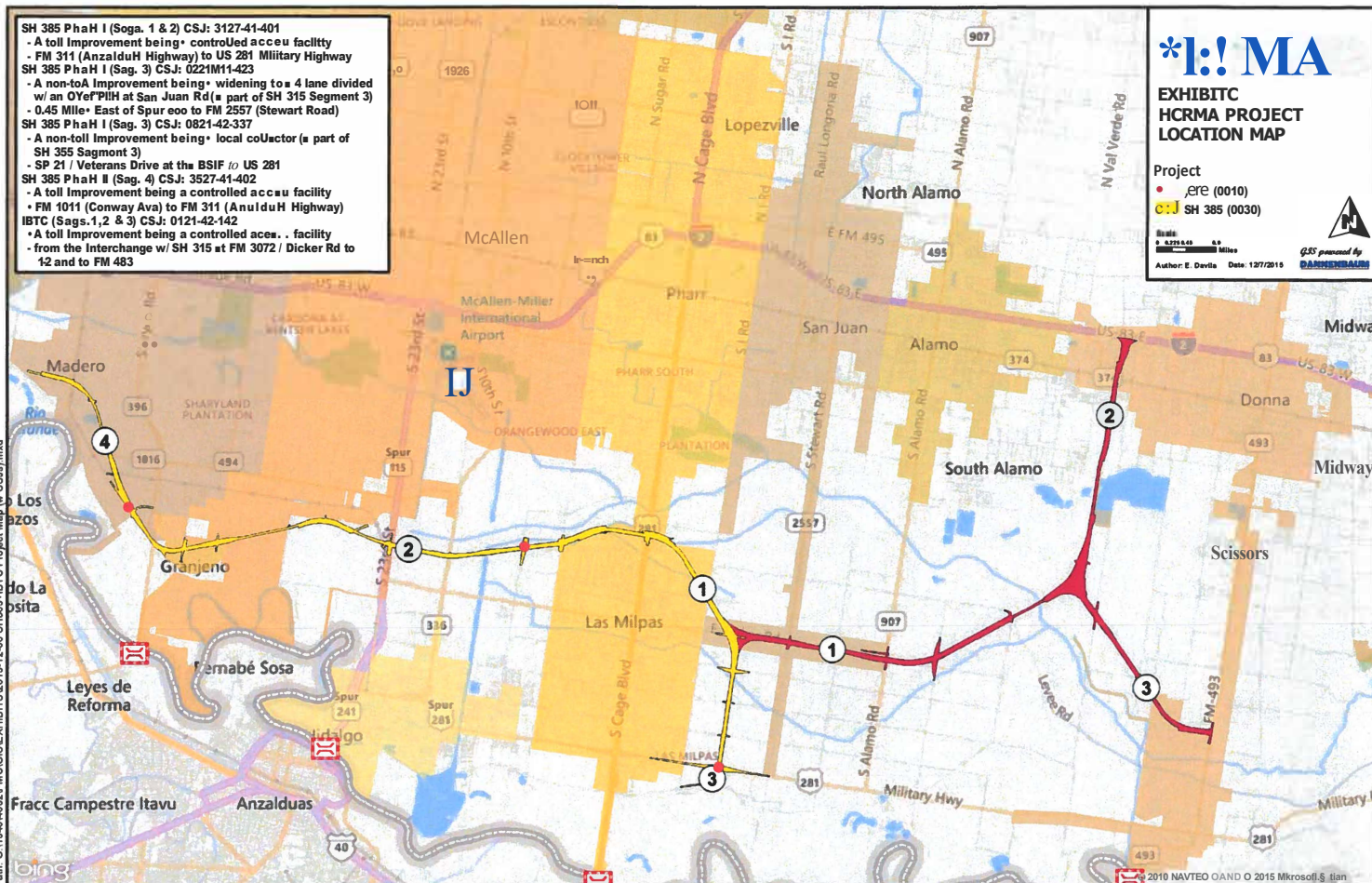
**EXHIBIT C
 HCRMA PROJECT
 LOCATION MAP**

Project
 • ere (0010)
 • SH 385 (0030)

Scale
 0 0.25 0.5 1 Miles
 Author: E. Devito Date: 1/27/2015



Path: G:\15404852\PM\GIS\EXHIBITS\2015-12-08 SH385-IBTC Project Map (w CSJ)s.mxd



© 2010 NAVTEQ OAND © 2015 Microsoft & others

EXHIBIT D
BASIS OF LABOR ESTIMATE

Basis of Labor Estimate for HCRMA Bypass

Labor hours are based on the engineer provided schedule, and a 50 hour work week.

Level of Effort Per Work Category				
			Tech Hours	
Excavation & Embankment w/ Bridge Fills	7213			Field Technician on site for 100% of the anticipated construction time
Line Treating	1575			Field Technician on site for 75% of the anticipated construction time
Cement Treating Base	1800			Field Technician on site for 100% of the anticipated construction time
Bond Breaker	500			Field Technician on site for 100% of the anticipated construction time
Concrete Paving	740			Field Technician on site for 20% of the anticipated construction time
Side Street Construction	1625			Field Technician on site for 50% of the anticipated construction time
Labor Category	Hours	Raw Rate	Contract Rate	Total
Field Technician	13453	\$27.00	\$68.02	\$915,073.06
Project Engineer	1346	\$58.00	\$133.98	\$180,337.08
Principal	135	\$80.00	\$186.90	\$25,231.50
		Total Labor = \$1,120,641.64		
Mileage				
Weeks on Project	272			
Days per Week	5.25			
Days on Project	1428			
Mileage per Day	49.5			
Mileage Rate				
Total Miles Anticipated	\$ 70686			
Mileage Budget	\$ 424,116.00			

Labor & Mileage Total = \$1,544,757.64

Total Testing = \$405,501.00

Grand Total = \$1,950,258.64

TEST NO.	CMT Fltn: Terracon Date: 01/26/2021			Final as of 3/29/21	QUANTITY	TOTAL
	Type		Unit			
1	Mobilization/Demobilization		Mile	\$ 400.00		\$ -
	Drilling, Logging, & Recovering Samples 1lb TCP)					\$ -
2A	1. Depth s 50 feet		Tex-11E: (every 5 feet)	\$ 30.00		\$ -
2B	2. Depth : 50 feet		linear foot	\$ 32.00		\$ -
3A	Drilling, Logging, & Recovering Samples 1lbout TCP)					\$ -
3B	1. Depth s 50 feet		linear foot	\$ 27.00		\$ -
4	2. Depth: 50 feet		linear foot	\$ 29.00		\$ -
5	Rock Coring (Soft Rock)""		linear foot	\$ 12.50		\$ -
6	Rock Coring (Hard Rock)""		linear foot	\$ 16.00		\$ -
	Slaking Borings and Utility Locations		hour	\$ 115.00		\$ -
	Standby Time (sampling)		hour	\$ 272.00		\$ -
7A	1. Hot Mix Asphalt (minimum of one hour)		each	\$ 109.00		\$ -
7B	2. Concrete (minimum of one hour)		each	\$ 218.00		\$ -
8	Piezometer - 2 inch (including well completion and installation)		linear foot	\$ 44.00		\$ -
9	Grouting of Borings		linear foot	\$ 5.50		\$ -
10	Traffic Control - Major		day	\$ 2,500.00		\$ -
	Laboratory Test	Test Method	Unit			
11	Volumetric Shrinkage	ASTM 0427	each	\$ 104.00		\$ -
12	Standard Poor Test	ASTM 0698	each	\$ 98.00		\$ -
13	Modified Poor Test	ASTMD1557	each	\$ 340.00		\$ -
14	Standard Penetration Test (SPT)	ASTM 01586	LF	\$ 33.00		\$ -
15	California Bearing Ratio (Single Sample without MD Curve)	ASTM 01883	test	\$ 350.00		\$ -
16	Unconfined Compressive Strength (Soil)	ASTM 02166	each	\$ 75.00		\$ -
17	Hydraulic Conductivity Permeability	ASTMD2434	each	\$ 450.00		\$ -
18	One Dimensional Consolidation Properties of Soil	ASTM 02435	each	\$ 550.00		\$ -
19	Unconfined Compressive Strength (Rock)	ASTMD2938	each	\$ 98.00		\$ -
20	Direct Shear Test of Soils Under Consolidated Drained Conditions	ASTM 03080	set of 3	\$ 870.00		\$ -
21	Direct Shear Test of Soils Under Consolidated Drained Conditions, SAND	ASTMD3080	set of 3	\$ 490.00		\$ -
22	Direct Shear Test of Soils Under Consolidated Drained Conditions, CLAY	ASTMD3080	set of 3	\$ 655.00		\$ -
23	Splitting Tensile of Intact Rock Core	ASTMD3967	each	\$ 120.00		\$ -
24	Water Sand Pipes	ASTMD4043	each	\$ 40.00		\$ -
25	Calcium Carbonate Content of Soils	ASTMD4373	LF	\$ 62.00		\$ -
26	Hydraulic Conductivity Permeability	ASTMD4511	each	\$ 490.00		\$ -
27	One Dimensional Swell, Methods A&B	ASTMD4546	each	\$ 380.00		\$ -
28	One Dimensional Swell, Method B Only	ASTMD4546	each	\$ 327.00		\$ -
29	One Dimensional Swell, Method C	ASTMD4546	each	\$ 292.00		\$ -
30	Permeability of Silt and Clays	ASTM05084	each	\$ 410.00		\$ -
31	Suction Test (Filter Method)	ASTM05298	each	\$ 98.00		\$ -
32	Casagrande Type Piezometers	NIA	each	\$ 300.00		\$ -
33	Casagrande Type Piezometers Installation	NIA	each	\$ 55.00		\$ -
34	Miscellaneous Testing	NIA	each	\$ 55.00		\$ -
35	Vertical inclinometer	NIA	each	\$ 490.00		\$ -
36	Vertical inclinometer Installation	NIA	each	\$ 900.00		\$ -
37	Vibrating Wire Piezometer	NIA	each	\$ 980.00		\$ -
38	Vibrating Wire Piezometer Installation	NIA	each	\$ 1,200.00		\$ -
39	Soil Boring with SPT	ASTM01586	LF	\$ 35.00		\$ -
	Laboratory Test	Test Method	Unit			
	Soils & Base Testing					
40	Sampling	Tex-400-A	hour	\$ 60.00	90	\$ 3,000.00
41	Sample Preparation	Tex-101-E	each	\$ 67.00	24	\$ 1,368.00
42	Determining Slaking Time	Tex-102-E	each	\$ 50.00		\$ -
43	Moisture Content	Tex-103-E	each	\$ 13.00	300	\$ 3,900.00
44	Atterburg Limits	Tex-104,105&106-E	Set of 3	\$ 75.00	224	\$ 16,800.00
45	Linear Bar Shrinkage (per bar)	Tex-107-E	each	\$ 65.00		\$ -
46	Determining the Specific Gravity of Soils	Tex-108-E	each	\$ 98.00		\$ -
47	Sieve Analysis	Tex-110-E, Part I	each	\$ 65.00	433	\$ 28,145.00
48	Sieve Analysis (Hydrometer with Tex-108-E)	Tex-110-E, Part II	each	\$ 82.00		\$ -
49	Hydrometer with Tex-108-E (in conjunction with Tex-110-E, Part II)	Tex-108-E	each	\$ 55.00		\$ -
50	Percent Passing No. 200 Sieve	Tex-111-E	each	\$ 108.00	224	\$ 24,192.00
51	Determining the Amount of Material in Soils Finer than the 75 um	Tex-111-E	each	\$ 49.00		\$ -
52	Admixing Lime to Reduce Plasticity Index of Soils	Tex-112-E	each	\$ 125.00		\$ -
53	Moisture-Density Relationship	Tex-113-E	each	\$ 245.00	20	\$ 4,900.00
54	Moisture-Density Relationship	Tex-114-E	each	\$ 218.00	73	\$ 15,914.00
55	Field Density Measurements	Tex-115-E	hour	\$ 55.00	0	\$ -
56	Wet Ball Mill Test	Tex-116-E	each	\$ 250.00	10	\$ 2,500.00

57	Texas Triaxial Compression [¶]	Tex-117-E, Part I	each	\$ 1,650.00	10	\$ 16,500.00
58	Texas Triaxial Compression [¶]	Tex-117-E, Part II	each	\$ 1,500.00		-
59	Quality Assurance (QA) Series for Flexible Base ^{¶¶}	See Foot Notes	each	\$ 2,350.00		-
60	Soil-Cement Testing ^{¶¶}	Tex-120-E, Part I	each	\$ 436.00	9	\$ 3,924.00
61	Soil- Lime Testing ^{¶¶}	Tex-121-E, Part II	each	\$ 436.00	19	\$ 8,284.00
61.1	Soil-Lime Testing Determining Stabilization Ability of Lime by Soil pH	Tex-121-E, Part III	each	\$ 250.00		-
62	Determining the Drainage Factor of Soil Materials (Not Field Test)	Tex-123-E ++	each	\$ 600.00		-
63	Determining Modulus of Subgrade Reaction (K Value) (Not Field Test)	Tex-125-E ++	each	\$ 150.00		-
64	Molding, Testing, and Evaluation Bituminous Black Base Materials	Tex-126-E ++	each	\$ 250.00		-
65	Lime-Fly Ash Compression ^{¶¶}	Tex-127-E	each	\$ 872.00	28	\$ 24,416.00
66	Soil pH	Tex-129-E	each	\$ 41.00	77	\$ 3,157.00
67	Resistivity of Soils	Tex-129-E	each	\$ 98.00		-
68	Slurry Testing	Tex-130-E	each	\$ 103.00		-
69	Texas Cone Penetration	Tex-132-E	each	\$ 49.00		-
70	Freezing and Thawing Tests on Compacted Soil-Cement Mixture	Tex-135-E	each	\$ 327.00		-
71	Thickness of Pavement Layers (4 hour minimum)	Tex-140-E	hour	\$ 200.00	184	\$ 36,800.00
72	Manual Procedure for Description and Identification of Soils	Tex-141-E	each	\$ 55.00		-
73	Laboratory Classification as Soils for Engineering Purposes	Tex-142-E	each	\$ 55.00		-
74	Sulfate Content in Soils	Tex-145-E	each	\$ 71.00	77	\$ 5,467.00
75	Conductivity Test for Field Detection of Sulfates in Soil	Tex-146-E	each	\$ 65.00		-
75.1	Organic Content Using UV-VIS Method	Tex-148-E	each	\$ 70.00	10	\$ 700.00
76	Determining Chloride and Sulfate Contents in Soils	Tex-620-J	each	\$ 81.00		-
77	Free Swell Test	EM1110-2-1906	each	\$ 164.00		-
78	Pressure Swell Test	EM1110-2-1906	each	\$ 272.00		-
79	One-Dimensional Swell	ASTM D4546	each	\$ 380.00		-
80	One-Dimensional Swell (Method B Only)	ASTMD4546	each	\$ 75.00		-
81	Potential Vertical Rise Calculation	Tex-124-E	each	\$ 71.00		-
82	Volumetric Shrinkage	ASTMD4943	each	\$ 104.00		-
83	Volumetric Shrinkage	ASTMD427	each	\$ 98.00		-
84	Unconfined Compression Test (Soil)	ASTMD2166	each	\$ 81.00		-
85	Unconfined Compression Test (Rock)	ASTMD2938	each	\$ 98.00		-
86	Unconfined Compression Test (Rock) (Method D)	ASTMD7012	each	\$ 60.00		-
87	1. Set of Three	Tex-118-E	set	\$ 300.00		-
88	2. Multistage	Tex-118-E	each	\$ 273.00		-
89	1. Set of Three	Tex-131-E or ASTM D4767	set	\$ 1,310.00		-
90	2. Multistage	Tex-131-E or ASTM D4767	each	\$ 1,090.00		-
	Consolidated Drained (CD) Triaxial Compression Test					-
91	1. Set of Three	Tex-131-E or ASTM D4767	set	\$ 925.00		-
92	2. Multistage	Tex-131-E or ASTM D4767	each	\$ 872.00		-
93	Direct Shear Consolidated Drained (CD), sand	ASTM D3080	set of 3	\$ 1,400.00		-
94	Direct Shear Consolidated Drained (CD), clay	ASTM D3080	set of 3	\$ 1,400.00		-
95	One-Dimensional Consolidation Test (7 load increments)	ASTMD2435	each	\$ 600.00		-
96	Resilient Modulus (fine-grained soils)	AASHTO T307	each	\$ 1,035.00		-
	Hot Mix Asphalt Testina					-
97	Sieve Analysis of Fine and Coarse Aggregates	Tex-200-F	each	\$ 95.00	18	\$ 1,710.00
98	Bulk Specific Gravity and Water Absorption of Aggregates	Tex-201-F	each	\$ 95.00	18	\$ 1,710.00
99	Apparent Specific Gravity of Material Finer Than 180 μ m (No. 80) Sieve	Tex-202-F	each	\$ 65.00		-
100	Sand Equivalent Test	Tex-203-F	each	\$ 85.00	103	\$ 8,755.00
101	Laboratory Method of Mixing Bituminous Mixtures	Tex-205-F	Set of 3	\$ 92.00		-
102	Compacting Specimens Using the Texas Gyrotory Compactor (TG)	Tex-206-F	Set of 3	\$ 98.00		-
103	Determining Bulk Specific Gravity of Compacted Bituminous Mixtures	Tex-207-F (I)	each	\$ 27.00	186	\$ 5,022.00
104	Determining In-Face Density of 1.5 Compacted 1.5 Bituminous Mixtures (MOCA, Method)	Tex-207-F (III)	each	\$ 27.00		-
105	Asphalt Rolling Pattern (Nuclear Method)	Tex-207-F (IV)	each	\$ 87.00		-
106	Segregation Profile	Tex-207-F (V)	each	\$ 175.00	3	\$ 525.00
107	Joint Density	Tex-207-F (VII)	each	\$ 175.00	3	\$ 525.00
108	Test of Stabilometer Value of Bituminous Mixtures	Tex-208-F	set of 3	\$ 120.00		-
109	Determining Asphalt Content of Bituminous Mixtures by Extraction	Tex-210-F	each	\$ 155.00	20	\$ 3,100.00
110	Recovery of Asphalt from Bituminous Mixtures by the Abson Pro	Tex-211-F	each	\$ 218.00		-
111	Determining Moisture Content of Bituminous Mixtures	Tex-212-F	each	\$ 55.00	3	\$ 165.00
112	Determining Hydrocarbon-Volatile Content of Bituminous Mixture	Tex-213-F	each	\$ 110.00		-
113	Determining Deleterious Material and Decantation Test for Coarse Aggregates	Tex-217-F	each	\$ 82.00	10	\$ 820.00
114	Indirect Tensile Strength Test	Tex-226-F	each	\$ 545.00		-
115	Theoretical Maximum Specific Gravity of Bituminous Mixtures	Tex-227-F	each	\$ 98.00	186	\$ 18,228.00
116	Determining Asphalt Content of Bituminous Mixtures by the Nuclear	Tex-228-F	each	\$ 190.00		-
117	Combined HMA-C Cold-Belt Sampling and Testing Procedure	Tex-229-F	each	\$ 55.00		-
118	Determining Draindown Characteristics in Bituminous Mixtures	Tex-235-F	each	\$ 55.00		-

119	Determining Asphalt content from Asphalt Paving Mixtures by the Ignitor Method	Tex-236-F	each	\$ 142.00	120	\$ 17,040.00
120	Asphalt Release Agents	Tex-239-F	each	\$ 50.00		\$ -
121	Superpave Gyrotron Compacting of Test Specimens of Bituminous	Tex-241-F	each	\$ 125.00	30	\$ 3,750.00
122	Hamburg Wheel Tracker	Tex-242-F	each	\$ 245.00	3	\$ 735.00
123	Tack Coat Adhesion	Tex-243-F	each	\$ 109.00		\$ -
124	Thermal Profile	Tex-244-F	each	\$ 130.00	3	\$ 390.00
125	Cantabro Loss	Tex-245-F	each	\$ 190.00	3	\$ 570.00
126	Permeability or Water Flow of Hot Mix Asphalt	Tex-246-F	each	\$ 76.00		\$ -
127	Overlay Test	Tex-248-F	set of 3	\$ 545.00	3	\$ 1,635.00
128	Flat and Elongated Particles	Tex-280-F	each	\$ 61.00		\$ -
129	Sampling Bituminous Materials, Pre-Molded Joint Fillers, and Joint	Tex-500-C	each	\$ 55.00	4	\$ 220.00
130	Asphalt Binder Water in Petroleum	Tex-501-C AASHTO T55	each	\$ 93.00		\$ -
131	Penetration of Bituminous Materials	Tex-502-C AASHTO T51	each	\$ 163.00		\$ -
132	Ductility of Asphalt Materials	Tex-503-C AASHTO T51	each	\$ 120.00		\$ -
133	Flash and Fire Points by Cleveland Open Cup	Tex-504-C AASHTO T48	each	\$ 65.00		\$ -
134	Softening Point of Bitumen (Ring and Ball Apparatus	Tex-505-C AASHTO T53	each	\$ 110.00		\$ -
135	Solubility of Bituminous Materials	Tex-507-C AASHTO T44	each	\$ 110.00		\$ -
136	Specific Gravity	Tex-508-C AASHTO T228	each	\$ 82.00		\$ -
137	Spot Test of Asphaltic Materials	Tex-509-C AASHTO T102	each	\$ 158.00		\$ -
138	Effect of Heat and Air on Asphalt Materials (Thin-Film Oven Test)	Tex-510-C AASHTO T179	each	\$ 68.00		\$ -
139	Flash Point with Tag Open-Cup Apparatus for Use with Material H	Tex-512-C AASHTO T79	each	\$ 93.00		\$ -
140	Saybolt Viscosity	Tex-513-C AASHTO T72	each	\$ 82.00		\$ -
141	Cutback Asphalts - Specific Gravity, API Gravity, or Density of Cutback Asphalt by Hydrometer Method; Emulsified Asphalts - Weight per Gallon of Emulsified Asphalt	Tex-514-C ASTM D3142 ASTM D244	each	\$ 136.00		\$ -
142	Distillation of Cutback Asphalt Products	Tex-515-C AASHTO T78	each	\$ 185.00		\$ -
143	Float Test for Bituminous Materials	Tex-519-C AASHTO T50	each	\$ 70.00		\$ -
144	Standard Test Method for Emulsified Asphalts	Tex-521-C AASHTO T59	each	\$ 190.00		\$ -
145	Viscosity of Asphalts by Vacuum Capillary Viscometer	Tex-528-C AASHTO T202	each	\$ 38.00		\$ -
146	Kinematic Viscosity of Asphalts (Bitumens)	Tex-529-C AASHTO T201	each	\$ 82.00		\$ -
147	Boil Test (Effect of Water on Paving Mix)	Tex-530S31-C	each	\$ 136.00	3	\$ 408.00
148	Field Coring - ACP Thickness	ASTM D3549	each	\$ 109.00		\$ -
149	Pavement Thickness Determin. (Full Depth)	ASTM D3549	each	\$ 136.00		\$ -
150	Determining Polymer Additive Percentages in Polymer Modified	Tex-533-C	each	\$ 65.00		\$ -
151	Calculating Viscosity from Penetration	Tex-535-C	each	\$ 76.00		\$ -
152	Elastic Recovery of Tensile Deformation Using a Duclometer	Tex-539-C	each	\$ 65.00		\$ -
153	Measurement of Polymer Separation on Heating in Modified Asphalt	Tex-540-C	each	\$ 55.00		\$ -
154	Rolling Thin Film Oven Test for Asphalt Binders	Tex-541-C AASHTO T240	each	\$ 110.00		\$ -
155	Flexural Creep Stiffness Using the Bending Beam Rheometer	AASHTO T313	each	\$ 125.00		\$ -
156	Determining Rheological Properties of Asphalt Binder Using a Dry	AASHTO T315	each	\$ 235.00		\$ -
157	Determining Breaking Index for Asphalt Emulsions	Tex-542-C	each	\$ 200.00		\$ -
158	Resilience Test for Sealants and Repair Materials	Tex-547-C	each	\$ 65.00		\$ -
159	Tensile Strain to Failure	Tex-548-C	each	\$ 60.00		\$ -
160	Cone Flow Test	Tex-549-C	each	\$ 190.00		\$ -
161	Flexibility Test for Sealants and Repair Materials	Tex-550-C	each	\$ 95.00		\$ -
162	Settlement of Sealants and Repair Materials	Tex-551-C	each			\$ -
	Concrete & Aggregate Testing					
163	Sieve Analysis for Cone. Agg	Tex-401-A	each	\$ 85.00	2	\$ 170.00
164	Fineness Modulus for Cone. Agg	Tex-402-A	each	\$ 75.00	2	\$ 150.00
165	SSD Specific Gravity / Absorption Cone. Agg	Tex-403-A	each	\$ 80.00		\$ -
166	Unit Weight of Cone. Agg	Tex-404-A	each	\$ 40.00	2	\$ 80.00
167	Determining Percent Voids and Solids in Concrete	Tex-405-A	each	\$ 65.00		\$ -
168	Decantation for Cone. Agg	Tex-406-A	each	\$ 65.00	17	\$ 1,105.00
169	Organic Impurities for Cone. Agg	Tex-408-A	each	\$ 65.00	2	\$ 130.00
170	Free Moisture and Water Absorption in Aggregate for Concrete	Tex-409-A	each	\$ 35.00		\$ -
171	L.A. Abrasion	Tex-410-A	each	\$ 450.00	3	\$ 1,350.00
172	5 Cycle Magnesium Soundness	Tex-411-A	each	\$ 500.00	4	\$ 2,000.00
173	Deleterious Material for Cone. Agg	Tex-413-A	each	\$ 75.00	30	\$ 2,250.00
174	Air Content of Fresh Concrete by Volumetric	Tex-414-A	each	\$ 33.00	141	\$ 4,653.00
175	Slump of Fresh Concrete	Tex-415-A	each	\$ 25.00	141	\$ 3,525.00
176	Air Content of Fresh Concrete by Pressure	Tex-416-A	each	\$ 27.00		\$ -
177	Unit Weight, Yield and Air Content (Gravimetric) of Concrete	Tex-417-A	each	\$ 30.00		\$ -
178	Comp. Strength of Cyl. Cone. Specimen	Tex-418-A	each	\$ 15.00	282	\$ 4,230.00
179	Measure Temp. of Fresh Cone.	Tex-422-A	each	\$ 20.00	141	\$ 2,820.00
180	Obtaining & Testing Drilled Cone. Cores	Tex-424-A	each	\$ 250.00		\$ -
181	Absorption and Dry Bulk Specific Gravity of Lightweight Coarse	Tex-433-A	each	\$ 95.00	2	\$ 190.00
182	Test Flow of Grout Mixtures (Flow Cone Method)	Tex-437-A	each	\$ 125.00		\$ -
183	Accelerated Polish Test for Coarse Aggregate	Tex-438-A	each	\$ 355.00		\$ -
184	Det. Comp. Strength of Grouts	Tex-442-A	each	\$ 18.00		\$ -
185	Making & Curing Cone. Test Specimen	Tex-447-A	each	\$ 18.00		\$ -
186	Flexural Strength of Concrete Using Simple Beam Third-Point Load	Tex-448-A	each	\$ 55.00		\$ -
187	Capping Cyl. Cone. Specimen	Tex-450-A	each	\$ 18.00		\$ -
188	Degradation of Coarse Aggregate by Micro-Deval Abrasion	Tex-461-A	each	\$ 350.00	2	\$ 700.00

189	Uniformity of Concrete	Tex-472-A	each	\$ 165.00		\$ -	-
	Additional Testing	Test Method	Unit				
190	Geogrid Testing	Tex-621-J	each	\$ 806.00		\$ -	-
191	Water Quality Testing	Tex-619-J	each	\$ 158.00		\$ -	-
192	Lime Testing	Tex-600-J	each	\$ 450.00	11	\$ 4,950.00	
193	Operating Inertial Profiles and Evaluating Pavement Profiles	Tex-1001-S	each	\$ 1,500.00	2	\$ 3,000.00	
194	Vane Shear Testing	ASTM D2573	each	\$ 327.00		\$ -	-
	Miscellaneous Testing	Test Method	Unit				
195	Structural Field Welding	NA	hour	\$ 150.00		\$ -	-
	Equipment & Supplies for MT & UT		day	\$ 150.00		\$ -	-
	Other Direct Expenses		Unit				
	Photocopies B/W (8 1/2" X 11")		each	\$ 0.15		\$ -	-
	Photocopies B/W (11" X 17")		each	\$ 0.23		\$ -	-
	Photocopies Color (8 1/2" X 11")		each	\$ 0.82		\$ -	-
	Photocopies Color(11" X 17)		each	\$ 1.41		\$ -	-
	Digital Ortho Plotting		sheet	\$ 2.43		\$ -	-
	CADD Plotting		linear foot	\$ 1.00		\$ -	-
	Plots (B/W on Bond)		linear foot	\$ 0.91		\$ -	-
	Plots (Color on Bond)		linear foot	\$ 1.75		\$ -	-
	Plots (Color on Photographic Paper)		linear foot	\$ 2.72		\$ -	-
	Reproduction of CD/DVD		each	\$ 5.00		\$ -	-
	Additional Testing	Test Method	Unit				
196	Pressure Slake	Tex-431-A	each		2	\$ -	-
197	Freeze Thaw	Tex-432-A	each		2	\$ -	-
198	Determining Crushed Face Particle Count	Tex-460-A	each	\$ 91.00	2	\$ 182.00	
199	Determining Flakiness Index	Tex-224-F	each	\$ 90.00	2	\$ 180.00	
200	White Rock Count	Tex-220-F	each		2	\$ -	-
201	Voids in Mineral Aggregates (VMA)	Tex-204-F	each	\$ 2,250.00	48	\$ 108,000.00	
202	Acid Insoluble Residue for Fine Aggregates	Tex-612-J	each	\$ 187.00	3	\$ 561.00	
				TOTAL TEMNG: \$ 405,501.00			

ATTACHMENT E

FEE SCHEDULE

TEST NO.	CMT Firm: Terracon Date: 01/26/2021			Final as of 3/29/2021		
	Type		Unit		QUANTITY	TOTAL
1	Mobilization/Demobilization		Mile	\$ 400.00		\$ -
	Drilling, Logging, & Recovering Samples (With TCP)					\$ -
2A	1. Depth ≤ 50 feet		Tex-132-E (every 5 feet)	\$ 30.00		\$ -
2B	2. Depth ≥ 50 feet		linear foot	\$ 32.00		\$ -
	Drilling, Logging, & Recovering Samples (Without TCP)					
3A	1. Depth ≤ 50 feet		linear foot	\$ 27.00		\$ -
3B	2. Depth ≥ 50 feet		linear foot	\$ 29.00		\$ -
4	Rock Coring (Soft Rock) ⁽²⁾		linear foot	\$ 12.50		\$ -
5	Rock Coring (Hard Rock) ⁽²⁾		linear foot	\$ 16.00		\$ -
6	Staking Borings and Utility Locations		hour	\$ 115.00		\$ -
	Standby Time (sampling)		hour	\$ 272.00		\$ -
7A	1. Hot Mix Asphalt (minimum of one hour)		each	\$ 109.00		\$ -
7B	2. Concrete (minimum of one hour)		each	\$ 218.00		\$ -
8	Piezometer - 2 inch (including well completion and installation)		linear foot	\$ 44.00		\$ -
9	Grouting of Borings		linear foot	\$ 5.50		\$ -
10	Traffic Control - Major		day	\$ 2,500.00		\$ -
	Laboratory Test	Test Method	Unit			
11	Volumetric Shrinkage	ASTM D427	each	\$ 104.00		\$ -
12	Standard Poor Test	ASTM D698	each	\$ 98.00		\$ -
13	Modified Poor Test	ASTM D1557	each	\$ 340.00		\$ -
14	Standard Penetration Test (SPT)	ASTM D1586	LF	\$ 33.00		\$ -
15	California Bearing Ratio (Single Sample without MD Curve)	ASTM D1883	test	\$ 350.00		\$ -
16	Unconfined Compressive Strength (Soil)	ASTM D2166	each	\$ 75.00		\$ -
17	Hydraulic Conductivity Permeability	ASTM D2434	each	\$ 450.00		\$ -
18	One Dimensional Consolidation Properties of Soil	ASTM D2435	each	\$ 550.00		\$ -
19	Unconfined Compressive Strength (Rock)	ASTM D2938	each	\$ 98.00		\$ -
20	Direct Shear Test of Soils Under Consolidated Drained Conditions	ASTM D3080	set of 3	\$ 870.00		\$ -
21	Direct Shear Test of Soils Under Consolidated Drained Conditions, SAND	ASTM D3080	set of 3	\$ 490.00		\$ -
22	Direct Shear Test of Soils Under Consolidated Drained Conditions, CLAY	ASTM D3080	set of 3	\$ 655.00		\$ -
23	Splitting Tensile of Intact Rock Core	ASTM D3967	each	\$ 120.00		\$ -
24	Water Stand Pipes	ASTM D4043	each	\$ 40.00		\$ -
25	Calcium Carbonate Content of Soils	ASTM D4373	LF	\$ 62.00		\$ -
26	Hydraulic Conductivity Permeability	ASTM D4511	each	\$ 490.00		\$ -
27	One Dimensional Swell, Methods A&B	ASTM D4546	each	\$ 380.00		\$ -
28	One Dimensional Swell, Method B Only	ASTM D4546	each	\$ 327.00		\$ -
29	One Dimensional Swell, Method C	ASTM D4546	each	\$ 292.00		\$ -
30	Permeability of Silt and Clays	ASTM D5084	each	\$ 410.00		\$ -
31	Suction Test (Filter Method)	ASTM D5298	each	\$ 98.00		\$ -
32	Casagrande Type Piezometers	N/A	each	\$ 300.00		\$ -
33	Casagrande Type Piezometers Installation	N/A	each	\$ 55.00		\$ -
34	Miscellaneous Testing	N/A	each	\$ 55.00		\$ -
35	Vertical Inclinator	N/A	each	\$ 490.00		\$ -
36	Vertical Inclinator Installation	N/A	each	\$ 900.00		\$ -
37	Vibrating Wire Piezometer	N/A	each	\$ 980.00		\$ -
38	Vibrating Wire Piezometer Installation	N/A	each	\$ 1,200.00		\$ -
39	Soil Boring with SPT	ASTM D1586	LF	\$ 35.00		\$ -
	Laboratory Test	Test Method	Unit			
	Soils & Base Testing					
40	Sampling	Tex-400-A	hour	\$ 60.00	50	\$ 3,000.00
41	Sample Preparation	Tex-101-E	each	\$ 57.00	24	\$ 1,368.00
42	Determining Slaking Time	Tex-102-E	each	\$ 50.00		\$ -
43	Moisture Content	Tex-103-E	each	\$ 13.00	300	\$ 3,900.00
44	Atterburg Limits	Tex-104,105&106-E	Set of 3	\$ 75.00	224	\$ 16,800.00
45	Linear Bar Shrinkage (per bar)	Tex-107-E	each	\$ 65.00		\$ -
46	Determining the Specific Gravity of Soils	Tex-108-E	each	\$ 98.00		\$ -
47	Sieve Analysis	Tex-110-E, Part I	each	\$ 65.00	433	\$ 28,145.00
48	Sieve Analysis (Hydrometer with Tex-108-E)	Tex-110-E, Part II	each	\$ 82.00		\$ -
49	Hydrometer with Tex-108-E (in conjunction with Tex-110-E, Part II)	Tex-108-E	each	\$ 55.00		\$ -
50	Percent Passing No. 200 Sieve	Tex-111-E	each	\$ 108.00	224	\$ 24,192.00
51	Determining the Amount of Material in Solis Finer than the 75 mi	Tex-111-E	each	\$ 49.00		\$ -
52	Admixing Lime to Reduce Plasticity Index of Soils	Tex-112-E	each	\$ 125.00		\$ -
53	Moisture-Density Relationship	Tex-113-E	each	\$ 245.00	20	\$ 4,900.00
54	Moisture-Density Relationship	Tex-114-E	each	\$ 218.00	73	\$ 15,914.00
55	Field Density Measurements	Tex-115-E	hour	\$ 55.00	0	\$ -
56	Wet Ball Mill Test	Tex-116-E	each	\$ 250.00	10	\$ 2,500.00

57	Texas Triaxial Compression ⁽⁶⁾	Tex-117-E, Part I	each	\$ 1,650.00	10	\$ 16,500.00
58	Texas Triaxial Compression ⁽⁶⁾	Tex-117-E, Part II	each	\$ 1,500.00		\$ -
59	Quality Assurance (QA) Series for Flexible Base ^{(7) (8)}	See Foot Notes	each	\$ 2,350.00		\$ -
60	Soil- Cement Testing ⁽⁷⁾	Tex-120-E, Part II	each	\$ 436.00	9	\$ 3,924.00
61	Soil- Lime Testing ⁽⁷⁾	Tex-121-E, Part II	each	\$ 436.00	19	\$ 8,284.00
61.1	Soil-Lime Testing Determining Stabilization Ability of Lime by Soil pH	Tex-121-E, Part III	each	\$ 250.00		\$ -
62	Determining the Drainage Factor of Soil Materials (Not Field Test)	Tex-123-E ++	each	\$ 600.00		\$ -
63	Determining Modulus of Sub-grade Recaction (K Value) (Not Field Test)	Tex-125-E ++	each	\$ 150.00		\$ -
64	Molding, Testing, and Evaluation Bituminous Black Base Materials	Tex-126-E ++	each	\$ 250.00		\$ -
65	Lime-Fly Ash Compression ⁽⁷⁾	Tex-127-E	each	\$ 872.00	28	\$ 24,416.00
66	Soil pH	Tex-128-E	each	\$ 41.00	77	\$ 3,157.00
67	Resistivity of Soils	Tex-129-E	each	\$ 98.00		\$ -
68	Slurry Testing	Tex-130-E	each	\$ 103.00		\$ -
69	Texas Cone Penetration	Tex-132-E	each	\$ 49.00		\$ -
70	Freezing and Thawing Tests oc Compacted Soil-Cement Mixture	Tex-135-E	each	\$ 327.00		\$ -
71	Thickness of Pavement Layers (4 hour minimum)	Tex-140-E	hour	\$ 200.00	184	\$ 36,800.00
72	Manual Procedure for Description and Identification of Soils	Tex-141-E	each	\$ 55.00		\$ -
73	Laboratory Classification os Soils for Engineering Purposes	Tex-142-E	each	\$ 55.00		\$ -
74	Sulfate Content in Soils	Tex-145-E	each	\$ 71.00	77	\$ 5,467.00
75	Conductivity Test for Field Detection of Sulfates in Soil	Tex-146-E	each	\$ 65.00		\$ -
75.1	Organic Content Using UV-VIS Method	Tex-148-E	each	\$ 70.00	10	\$ 700.00
76	Determining Cholride and Sulfate Contents in Soils	Tex-620-J	each	\$ 81.00		\$ -
77	Free Swell Test	EM1110-2-1906	each	\$ 164.00		\$ -
78	Pressure Swell Test	EM1110-2-1906	each	\$ 272.00		\$ -
79	One-Dimensional Swell	ASTM D4546	each	\$ 380.00		\$ -
80	One-Dimensional Swell (Method B Only)	ASTM D4546	each	\$ 75.00		\$ -
81	Potential Vertical Rise Calculation	Tex-124-E	each	\$ 71.00		\$ -
82	Volumetric Shrinkage	ASTM D4943	each	\$ 104.00		\$ -
83	Volumetric Shrinkage	ASTM D427	each	\$ 98.00		\$ -
84	Unconfined Compression Test (Soil)	ASTM D2166	each	\$ 81.00		\$ -
85	Unconfined Compression Test (Rock)	ASTM D2938	each	\$ 98.00		\$ -
86	Unconfined Compression Test (Rock) (Method D)	ASTM D7012	each	\$ 60.00		\$ -
	Unconsolidated Undrained (UU) Triaxial Compression Test					\$ -
87	1. Set of Three	Tex-118-E	set	\$ 300.00		\$ -
88	2. Multistage	Tex-118-E	each	\$ 273.00		\$ -
	Consolidated Undrained (CU) Triaxial Compression Test					\$ -
89	1. Set of Three	Tex-131-E or ASTM D4767	set	\$ 1,310.00		\$ -
90	2. Multistage	Tex-131-E or ASTM D4767	each	\$ 1,090.00		\$ -
	Consolidated Drained (CD) Triaxial Compression Test					\$ -
91	1. Set of Three	Tex-131-E or ASTM D4767	set	\$ 925.00		\$ -
92	2. Multistage	Tex-131-E or ASTM D4767	each	\$ 872.00		\$ -
93	Direct Shear Consolidated Drained (CD), sand	ASTM D3080	set of 3	\$ 1,400.00		\$ -
94	Direct Shear Consolidated Drained (CD), clay	ASTM D3080	set of 3	\$ 1,400.00		\$ -
95	One-Dimensional Consolidation Test (7 load increments)	ASTM D2435	each	\$ 600.00		\$ -
96	Resilient Modulus (fine-grained soils)	AASHTO T307	each	\$ 1,035.00		\$ -
	Hot Mix Asphalt Testing					\$ -
97	Sieve Analysis of Fine and Coarse Aggregates	Tex-200-F	each	\$ 95.00	18	\$ 1,710.00
98	Bulk Specific Gravity and Water Absorption of Aggregates	Tex-201-F	each	\$ 95.00	18	\$ 1,710.00
99	Apparent Specific Gravity of Material Finer Than 180 µm (No. 80) Sieve	Tex-202-F	each	\$ 65.00		\$ -
100	Sand Equivalent Test	Tex-203-F	each	\$ 85.00	103	\$ 8,755.00
101	Laboratory Method of Mixing Bituminous Mixtures	Tex-205-F	Set of 3	\$ 92.00		\$ -
102	Compacting Specimens Using the Texas Gyratory Compactor (TG	Tex-206-F	Set of 3	\$ 98.00		\$ -
103	Determining Bulk Specific Gravity of Compacted Bituminuous Mixtures	Tex-207-F (I)	each	\$ 27.00	186	\$ 5,022.00
104	Determining In-Place Density of Compacted Bituminuous Mixtures (Nuclear Method)	Tex-207-F (III)	each	\$ 27.00		\$ -
105	Asphalt Rolling Pattern (Nuclear Method)	Tex-207-F (IV)	each	\$ 87.00		\$ -
106	Segregation Profile	Tex-207-F (V)	each	\$ 175.00	3	\$ 525.00
107	Joint Density	Tex-207-F (VII)	each	\$ 175.00	3	\$ 525.00
108	Test of Stabilometer Value of Bituminous Mixtures	Tex-208-F	set of 3	\$ 120.00		\$ -
109	Determining Asphalt Content of Bituminous Mixtures by Extraction	Tex-210-F	each	\$ 155.00	20	\$ 3,100.00
110	Recovery of Asphalt from Bituminou Mixtures by the Abson Pro	Tex-211-F	each	\$ 218.00		\$ -
111	Determining Moisture Content of Bituminous Mixtures	Tex-212-F	each	\$ 55.00	3	\$ 165.00
112	Determining Hydrocarbon-Volatile Content of Bituminous Mixture	Tex-213-F	each	\$ 110.00		\$ -
113	Determining Deleterious Material and Decantation Test for Coarse Aggregates	Tex-217-F	each	\$ 82.00	10	\$ 820.00
114	Indirect Tensile Strength Test	Tex-226-F	each	\$ 545.00		\$ -
115	Theoretical Maximum Specific Gravity of Bituminous Mixtures	Tex-227-F	each	\$ 98.00	186	\$ 18,228.00
116	Determining Asphalt Content of Bituminous Mixtures by the Nuclear	Tex-228-F	each	\$ 190.00		\$ -
117	Combined HMA Cold-Belt Sampling and Testing Procedure	Tex-229-F	each	\$ 55.00		\$ -
118	Determining Draindown Characteristics in Bituminous Mixtures	Tex-235-F	each	\$ 55.00		\$ -

119	Determining Asphalt Content from Asphalt Paving Mixtures by the Ignition Method	Tex-236-F	each	\$ 142.00	120	\$ 17,040.00
120	Asphalt Release Agents	Tex-239-F	each	\$ 50.00		\$ -
121	Superpave Gyrotory Compacting of Test Specimens of Bituminous	Tex-241-F	each	\$ 125.00	30	\$ 3,750.00
122	Hamburg Wheel Tracker	Tex-242-F	each	\$ 245.00	3	\$ 735.00
123	Tack Coat Adhesion	Tex-243-F	each	\$ 109.00		\$ -
124	Thermal Profile	Tex-244-F	each	\$ 130.00	3	\$ 390.00
125	Cantabro Loss	Tex-245-F	each	\$ 190.00	3	\$ 570.00
126	Permeability or Water Flow of Hot Mix Asphalt	Tex-246-F	each	\$ 76.00		\$ -
127	Overlay Test	Tex-248-F	set of 3	\$ 545.00	3	\$ 1,635.00
128	Flat and Elongated Particles	Tex-280-F	each	\$ 61.00		\$ -
129	Sampling Bituminous Materials, Pre-Molded Joint Fillers, and Joint	Tex-500-C	each	\$ 55.00	4	\$ 220.00
130	Asphalt Binder Water in Petroleum	Tex-501-C AASHTO T55	each	\$ 93.00		\$ -
131	Penetration of Bituminous Materials	Tex-502-C AASHTO T49	each	\$ 163.00		\$ -
132	Ductility of Asphalt Materials	Tex-503-C AASHTO T51	each	\$ 120.00		\$ -
133	Flash and Fire Points by Cleveland Open Cup	Tex-504-C AASHTO T48	each	\$ 65.00		\$ -
134	Softening Point of Bitumen (Ring and Ball Apparatus)	Tex-505-C AASHTO T53	each	\$ 110.00		\$ -
135	Solubility of Bituminous Materials	Tex-507-C AASHTO T44	each	\$ 110.00		\$ -
136	Specific Gravity	Tex-508-C AASHTO T228	each	\$ 82.00		\$ -
137	Spot Test of Asphaltic Materials	Tex-509-C AASHTO T102	each	\$ 158.00		\$ -
138	Effect of Heat and Air on Asphalt Materials (Thin-Film Oven Test)	Tex-510-C AASHTO T179	each	\$ 68.00		\$ -
139	Flash Point with Tag Open-Cup Apparatus for Use with Material H	Tex-512-C AASHTO T79	each	\$ 93.00		\$ -
140	Saybolt Viscosity	Tex-513-C AASHTO T72	each	\$ 82.00		\$ -
141	Cutback Asphalts - Specific Gravity, API Gravity, or Density of Cutback Asphalts by Hydrometer Method; Emulsified Asphalts - Weight per Gallon of Emulsified Asphalt	Tex-514-C ASTM D3142 ASTM D244	each	\$ 136.00		\$ -
142	Distillation of Cutback Asphalt Products	Tex-515-C AASHTO T78	each	\$ 185.00		\$ -
143	Float Test for Bituminous Materials	Tex-519-C AASHTO T50	each	\$ 70.00		\$ -
144	Standard Test Method for Emulsified Asphalts	Tex-521-C AASHTO T59	each	\$ 190.00		\$ -
145	Viscosity of Asphalts by Vacuum Capillary Viscometer	Tex-528-C AASHTO T202	each	\$ 38.00		\$ -
146	Kinematic Viscosity of Asphalts (Bitumens)	Tex-529-C AASHTO T201	each	\$ 82.00		\$ -
147	Boil Test (Effect of Water on Paving Mix)	Tex-530/531-C	each	\$ 136.00	3	\$ 408.00
148	Field Coring - ACP Thickness	ASTM D3549	each	\$ 109.00		\$ -
149	Pavement Thickness Determin. (Full Depth)	ASTM D3549	each	\$ 136.00		\$ -
150	Determining Polymer Additive Percentages in Polymer Modified	Tex-533-C	each	\$ 65.00		\$ -
151	Calculating Viscosity from Penetration	Tex-535-C	each	\$ 76.00		\$ -
152	Elastic Recovery of Tensile Deformation Using a Durometer	Tex-539-C	each	\$ 65.00		\$ -
153	Measurement of Polymer Separation on Heating in Modified Asphalt	Tex-540-C	each	\$ 55.00		\$ -
154	Rolling Thin Film Oven Test for Asphalt Binders	Tex-541-C AASHTO T240	each	\$ 110.00		\$ -
155	Flexural Creep Stiffness Using the Bending Beam Rheometer	AASHTO T313	each	\$ 110.00		\$ -
156	Determining Rheological Properties of Asphalt Binder Using a Dyr	AASHTO T315	each	\$ 125.00		\$ -
157	Determining Breaking Index for Asphalt Emulsions	Tex-542-C	each	\$ 235.00		\$ -
158	Resilience Test for Sealants and Repair Materials	Tex-547-C	each	\$ 200.00		\$ -
159	Tensile Strain to Failure	Tex-548-C	each	\$ 65.00		\$ -
160	Cone Flow Test	Tex-549-C	each	\$ 60.00		\$ -
161	Flexibility Test for Sealants and Repair Materials	Tex-550-C	each	\$ 190.00		\$ -
162	Settlement of Sealants and Repair Materials	Tex-551-C	each	\$ 95.00		\$ -
Concrete & Aggregate Testing						
163	Sieve Analysis for Conc. Agg	Tex-401-A	each	\$ 85.00	2	\$ 170.00
164	Fineness Modulus for Conc. Agg	Tex-402-A	each	\$ 75.00	2	\$ 150.00
165	SSD Specific Gravity / Absorption Conc. Agg	Tex-403-A	each	\$ 80.00		\$ -
166	Unit Weight of Conc. Agg	Tex-404-A	each	\$ 40.00	2	\$ 80.00
167	Determining Percent Voids and Solids in Concrete	Tex-405-A	each	\$ 65.00		\$ -
168	Decantation for Conc. Agg	Tex-406-A	each	\$ 65.00	17	\$ 1,105.00
169	Organic Impurities for Conc. Agg	Tex-408-A	each	\$ 65.00	2	\$ 130.00
170	Free Moisture and Water Absorption in Aggregate for Concrete	Tex-409-A	each	\$ 35.00		\$ -
171	L.A. Abrasion	Tex-410-A	each	\$ 450.00	3	\$ 1,350.00
172	5 Cycle Magnesium Soundness	Tex-411-A	each	\$ 500.00	4	\$ 2,000.00
173	Deleterious Material for Conc. Agg	Tex-413-A	each	\$ 75.00	30	\$ 2,250.00
174	Air Content of Fresh Concrete by Volumetric	Tex-414-A	each	\$ 33.00	141	\$ 4,653.00
175	Slump of Fresh Concrete	Tex-415-A	each	\$ 25.00	141	\$ 3,525.00
176	Air Content of Fresh Concrete by Pressure	Tex-416-A	each	\$ 27.00		\$ -
177	Unit Weight, Yield and Air Content (Gravimetric) of Concrete	Tex-417-A	each	\$ 30.00		\$ -
178	Comp. Strength of Cyl. Conc. Specimen	Tex-418-A	each	\$ 15.00	282	\$ 4,230.00
179	Measure Temp. of Fresh Conc.	Tex-422-A	each	\$ 20.00	141	\$ 2,820.00
180	Obtaining & Testing Drilled Conc. Cores	Tex-424-A	each	\$ 250.00		\$ -
181	Absorption and Dry Bulk Specific Gravity of Lightweight Coarse	Tex-433-A	each	\$ 95.00	2	\$ 190.00
182	Test Flow of Grout Mixtures (Flow Cone Method)	Tex-437-A	each	\$ 125.00		\$ -
183	Accelerated Polish Test for Coarse Aggregate	Tex-438-A	each	\$ 355.00		\$ -
184	Det. Comp. Strength of Grouts	Tex-442-A	each	\$ 18.00		\$ -
185	Making & Curing Conc. Test Specimen	Tex-447-A	each	\$ 18.00		\$ -
186	Flexural Strength of Concrete Using Simple Beam Third-Point Load	Tex-448-A	each	\$ 55.00		\$ -
187	Capping Cyl. Conc. Specimen	Tex-450-A	each	\$ 18.00		\$ -
188	Degradation of Coarse Aggregate by Micro-Deval Abrasion	Tex-461-A	each	\$ 350.00	2	\$ 700.00

189	Uniformity of Concrete	Tex-472-A	each	\$ 165.00		\$ -
	Additional Testing	Test Method	Unit			
190	Geogrid Testing	Tex-621-J	each	\$ 806.00		\$ -
191	Water Quality Testing	Tex-619-J	each	\$ 158.00		\$ -
192	Lime Testing	Tex-600-J	each	\$ 450.00	11	\$ 4,950.00
193	Operating Inertial Profilers and Evaluating Pavement Profiles	Tex-1001-S	each	\$ 1,500.00	2	\$ 3,000.00
194	Vane Shear Testing	ASTM D2573	each	\$ 327.00		\$ -
	Miscellaneous Testing	Test Method	Unit			
195	Structural Field Welding	NA	hour	\$150.00		\$ -
	Equipment & Supplies for MT & UT		day	\$150.00		\$ -
	Other Direct Expenses		Unit			
	Photocopies B/W (8 1/2" X 11")		each	\$ 0.15		\$ -
	Photocopies B/W (11" X 17")		each	\$ 0.23		\$ -
	Photocopies Color (8 1/2" X 11")		each	\$ 0.82		\$ -
	Photocopies Color (11" X 17")		each	\$ 1.41		\$ -
	Digital Ortho Plotting		sheet	\$ 2.43		\$ -
	CADD Plotting		linear foot	\$ 1.00		\$ -
	Plots (B/W on Bond)		linear foot	\$ 0.91		\$ -
	Plots (Color on Bond)		linear foot	\$ 1.75		\$ -
	Plots (Color on Photographic Paper)		linear foot	\$ 2.72		\$ -
	Reproduction of CD/DVD		each	\$ 5.00		\$ -
	Additional Testing	Test Method	Unit			
196	Pressure Slake	Tex-431-A	each		2	\$ -
197	Freeze Thaw	Tex-432-A	each		2	\$ -
198	Determining Crushed Face Particle Count	Tex-460-A	each	\$ 91.00	2	\$ 182.00
199	Determining Flakiness Index	Tex-224-F	each	\$ 90.00	2	\$ 180.00
200	White Rock Count	Tex-220-F	each		2	\$ -
201	Voids in Mineral Aggregates (VMA)	Tex-204-F	each	\$ 2,250.00	48	\$ 108,000.00
202	Acid Insoluble Residue for Fine Aggregates	Tex-612-J	each	\$ 187.00	3	\$ 561.00
				TOTAL TESTING:		\$ 405,501.00

TEST NO.	CMT Firm:TERRACON CONSULTANTS Date: 09/13/2021				2020-23				
									</

96	Resilient Modulus (fine-grained soils)	AASHTO T307	each	\$ 1,141.53				
	Hot Mix Asphalt Testing							
97	Sieve Analysis of Fine and Coarse Aggregates	Tex-200-F	each	\$ 94.54				
98	Bulk Specific Gravity and Water Absorption of Aggregates	Tex-201-F	each	\$ 91.88				
99	Apparent Specific Gravity of Material Finer Than 180 µm (No. 80) Sieve	Tex-202-F	each	\$ 64.35				
100	Sand Equivalent Test	Tex-203-F	each	\$ 95.22				
101	Laboratory Method of Mixing Bituminous Mixtures	Tex-205-F	Set of 3	\$ 163.82				
102	Compacting Specimens Using the Texas Gyrotory Compactor (TG)	Tex-206-F	Set of 3	\$ 113.04				
103	Determining Bulk Specific Gravity of Compacted Bituminous Mixtures	Tex-207-F (I)	each	\$ 42.46				
	Determining In-Place Density of Compacted Bituminous Mixtures (Nuclear Method)	Tex-207-F (III)	each	\$ 39.73				
104	Asphalt Rolling Pattern (Nuclear Method)	Tex-207-F (IV)	each	\$ 88.69				
106	Segregation Profile	Tex-207-F (V)	each	\$ 194.17				
107	Joint Density	Tex-207-F (VII)	each	\$ 194.17				
108	Test of Stabiometer Value of Bituminous Mixtures	Tex-208-F	set of 3	\$ 157.05				
109	Determining Asphalt Content of Bituminous Mixtures by Extraction	Tex-210-F	each	\$ 182.13				
110	Recovery of Asphalt from Bituminous Mixtures by the Abscon Pro	Tex-211-F	each	\$ 289.11				
111	Determining Moisture Content of Bituminous Mixtures	Tex-212-F	each	\$ 54.03				
112	Determining Hydrocarbon-Volatile Content of Bituminous Mixture	Tex-213-F	each	\$ 131.76				
	Determining Deleterious Material and Decantation Test for Coarse Aggregates	Tex-217-F	each	\$ 99.09				
114	Indirect Tensile Strength Test	Tex-226-F	each	\$ 495.02				
115	Theoretical Maximum Specific Gravity of Bituminous Mixtures	Tex-227-F	each	\$ 105.31				
116	Determining Asphalt Content of Bituminous Mixtures by the Nuclear	Tex-228-F	each	\$ 103.18				
117	Combined HMAAC Cold-Belt Sampling and Testing Procedure	Tex-229-F	each	\$ 79.85				
118	Determining Draindown Characteristics in Bituminous Mixtures	Tex-235-F	each	\$ 69.93				
119	Determining Asphalt Content from Asphalt Paving Mixtures by the Ignition Method	Tex-236-F	each	\$ 162.20				
120	Asphalt Release Agents	Tex-239-F	each	\$ 86.83				
121	Superpave Gyrotory Compacting of Test Specimens of Bituminous	Tex-241-F	each	\$ 158.11				
122	Hamburg Wheel Tracker	Tex-242-F	each	\$ 451.77				
123	Tack Coat Adhesion	Tex-243-F	each	\$ 135.65				
124	Thermal Profile	Tex-244-F	each	\$ 159.17				
125	Cantabro Loss	Tex-245-F	each	\$ 219.67				
126	Permeability or Water Flow of Hot Mix Asphalt	Tex-246-F	each	\$ 81.80				
127	Overlay Test	Tex-248-F	set of 3	\$ 762.22				
128	Flat and Elongated Particles	Tex-280-F	each	\$ 77.36				
129	Sampling Bituminous Materials, Pre-Molded Joint Fillers, and Joint	Tex-500-C	each	\$ 82.52				
130	Asphalt Binder Water in Petroleum	Tex-501-C AASHTO T55	each	\$ 120.50				
131	Penetration of Bituminous Materials	Tex-502-C AASHTO T49	each	\$ 130.82				
132	Ductility of Asphalt Materials	Tex-503-C AASHTO T51	each	\$ 139.55				
133	Flash and Fire Points by Cleveland Open Cup	Tex-504-C AASHTO T48	each	\$ 70.56				
134	Softening Point of Bitumen (Ring and Ball Apparatus)	Tex-505-C AASHTO T53	each	\$ 120.27				
135	Solubility of Bituminous Materials	Tex-507-C AASHTO T44	each	\$ 140.33				
136	Specific Gravity	Tex-508-C AASHTO T228	each	\$ 94.34				
137	Spot Test of Asphaltic Materials	Tex-509-C AASHTO T102	each	\$ 197.57				
138	Effect of Heat and Air on Asphalt Materials (Thin-Film Oven Test)	Tex-510-C AASHTO T179	each	\$ 148.60				
139	Flash Point with Tag Open-Cup Apparatus for Use with Material H	Tex-512-C AASHTO T79	each	\$ 108.75				
140	Saybolt Viscosity	Tex-513-C AASHTO T72	each	\$ 89.02				
	Cutback Asphalts - Specific Gravity, API Gravity, or Density of Cutback Asphalts by Hydrometer Method; Emulsified Asphalts - Weight per Gallon of Emulsified Asphalt	Tex-514-C ASTM D3142 ASTM D244	each	\$ 365.94				
142	Distillation of Cutback Asphalt Products	Tex-515-C AASHTO T78	each	\$ 205.67				
143	Float Test for Bituminous Materials	Tex-519-C AASHTO T50	each	\$ 85.65				
144	Standard Test Method for Emulsified Asphalts	Tex-521-C AASHTO T59	each	\$ 238.65				
145	Viscosity of Asphalts by Vacuum Capillary Viscometer	Tex-528-C AASHTO T202	each	\$ 46.17				
146	Kinematic Viscosity of Asphalts (Bitumens)	Tex-529-C AASHTO T201	each	\$ 89.02				
147	Bol Test (Effect of Water on Paving Mix)	Tex-530/531-C	each	\$ 147.94				
148	Field Coring - ACP Thickness	ASTM D3549	each	\$ 119.16				
149	Pavement Thickness Determin. (Full Depth)	ASTM D3549	each	\$ 147.94				
150	Determining Polymer Additive Percentages in Polymer Modified	Tex-533-C	each	\$ 79.42				
151	Calculating Viscosity from Penetration	Tex-535-C	each	\$ 87.06				
152	Elastic Recovery of Tensile Deformation Using a Duclimeter	Tex-539-C	each	\$ 78.21				
153	Measurement of Polymer Separation on Heating in Modified Asphalt	Tex-540-C	each	\$ 123.22				
154	Rolling Thin Film Oven Test for Asphalt Binders	Tex-541-C AASHTO T240	each	\$ 171.74				
155	Flexural Creep Stiffness Using the Bending Beam Rheometer	AASHTO T313	each	\$ 253.00				
156	Determining Rheological Properties of Asphalt Binder Using a Dy	AASHTO T315	each	\$ 218.06				
157	Determining Breaking Index for Asphalt Emulsions	Tex-542-C	each	\$ 251.89				
158	Resilience Test for Sealants and Repair Materials	Tex-547-C	each	\$ 305.36				
159	Tensile Strain to Failure	Tex-548-C	each	\$ 81.65				
160	Cone Flow Test	Tex-549-C	each	\$ 80.95				
161	Flexibility Test for Sealants and Repair Materials	Tex-550-C	each	\$ 299.70				
162	Settlement of Sealants and Repair Materials	Tex-551-C	each	\$ 115.78				
	Concrete & Aggregate Testing							
163	Sieve Analysis for Conc. Agg	Tex-401-A	each	\$ 90.10				
164	Fineness Modulus for Conc. Agg	Tex-402-A	each	\$ 37.69				
165	SSD Specific Gravity / Absorption Conc. Agg	Tex-403-A	each	\$ 85.63				
166	Unit Weight of Conc. Agg	Tex-404-A	each	\$ 58.30				
167	Determining Percent Voids and Solids in Concrete	Tex-405-A	each	\$ 75.94				
168	Decantation for Conc. Agg	Tex-406-A	each	\$ 62.34				
169	Organic Impurities for Conc. Agg	Tex-408-A	each	\$ 59.16				
170	Free Moisture and Water Absorption in Aggregate for Concrete	Tex-409-A	each	\$ 62.94				
171	L.A. Abrasion	Tex-410-A	each	\$ 403.12				
172	5 Cycle Magnesium Soundness	Tex-411-A	each	\$ 520.48				
173	Deleterious Material for Conc. Agg	Tex-413-A	each	\$ 73.27				
174	Air Content of Fresh Concrete by Volumetric	Tex-414-A	each	\$ 33.10				
175	Slump of Fresh Concrete	Tex-415-A	each	\$ 29.90				
176	Air Content of Fresh Concrete by Pressure	Tex-416-A	each	\$ 32.08				
177	Unit Weight, Yield and Unit Content (Gravimetric) of Concrete	Tex-417-A	each	\$ 55.25				
178	Comp. Strength of Cyl. Conc. Specimen	Tex-418-A	each	\$ 20.43				
179	Measure Temp. of Fresh Conc.	Tex-422-A	each	\$ 23.16				
180	Obtaining & Testing Drilled Conc. Cores	Tex-424-A	each	\$ 303.62				
181	Absorption and Dry Bulk Specific Gravity of Lightweight Coarse	Tex-433-A	each	\$ 105.40				
182	Test Flow of Grout Mixtures (Flow Cone Method)	Tex-437-A	each	\$ 102.66				
183	Accelerated Polish Test for Coarse Aggregate	Tex-438-A	each	\$ 790.55				
184	Det. Comp. Strength of Grouts	Tex-442-A	each	\$ 24.84				
185	Making & Curing Conc. Test Specimen	Tex-447-A	each	\$ 22.78				
186	Flexural Strength of Concrete Using Simple Beam Third-Point Load	Tex-448-A	each	\$ 48.13				
187	Capping Cyl. Conc. Specimen	Tex-450-A	each	\$ 19.40				
188	Degradation of Coarse Aggregate by Micro-Deval Abrasion	Tex-461-A	each	\$ 252.89				
189	Uniformity of Concrete	Tex-472-A	each	\$ 173.12				
	Additional Testing	Test Method	Unit					
190	Geogrid Testing	Tex-621-J	each	\$ 800.20				
191	Water Quality Testing	Tex-619-J	each	\$ 175.47				
192	Lime Testing	Tex-600-J	each	\$ 367.59				
193	Operating Inertial Profilers and Evaluating Pavement Profiles	Tex-1001-S	each	\$ 1,676.76				
194	Vane Shear Testing	ASTM D2573	each	\$ 338.00				
	Miscellaneous Testing	Test Method	Unit					
195	Structural Field Welding	NA	hour	\$ 150.00				
	Equipment & Supplies for MT & UT		day	\$ 150.00				
	Other Direct Expenses		Unit					
	Photocopies B/W (8 1/2" X 11")		each	\$ 0.15				
	Photocopies B/W (11" X 17")		each	\$ 0.23				
	Photocopies Color (8 1/2" X 11")		each	\$ 0.82				
	Photocopies Color (11" X 17")		each	\$ 1.41				
	Digital Ortho Plotting		sheet	\$ 2.43				
	CADD Plotting		linear foot	\$ 1.00				
	Plots (B/W on Bond)		linear foot	\$ 0.91				
	Plots (Color on Bond)		linear foot	\$ 1.75				
	Plots (Color on Photographic Paper)		linear foot	\$ 2.72				
	Reproduction of CD/DVD		each	\$ 5.00				

I&G Personnel Classification	Hourly Base Rate	Contract Rate FY 2020- 2023	20210830 FINAL RATES
Senior Project Manager / Principal	\$ 83.00	\$ 257.30	\$ 186.90
Senior Geotechnical Engineer	\$ 65.00	\$ 210.50	\$ 166.32
Geotechnical Engineer	\$ 62.00	\$ 192.20	\$ 136.40
Project Engineer	\$ 56.00	\$ 173.60	\$ 133.98
Engineering Lab Manager	\$ 40.00	\$ 124.00	\$ 94.71
Utility Coordinator	\$ 38.00	\$ 117.80	\$ 110.98
Senior Project Inspector	\$ 38.00	\$ 117.80	\$ 99.75
Project Inspector	\$ 30.00	\$ 93.00	\$ 73.92
EIT	\$ 40.00	\$ 124.00	\$ 88.00
Engineer Tech / GIS	\$ 27.00	\$ 83.70	\$ 76.60
Logger	\$ 22.00	\$ 68.20	\$ 62.00
Field Technician (Soils, Aggr, Asph, Conc)	\$ 22.00	\$ 68.20	\$ 68.20
CADD Operator	\$ 22.00	\$ 68.20	\$ 77.50
Admin/Clerical	\$ 22.00	\$ 68.20	\$ 61.95

ATTACHMENT E-1
Final Cost Proposal Form

This attachment provides the basis of payment and fee schedule. **The basis of payment for this Work Authorization is indicated by an “X” in the applicable box.** The basis shall be supported by the Final Cost Proposal (FCP) shown below and should identify maximum amount payable and basis of payment. If more than one basis of payment is used, each one must be supported by a separate FCP. The basis of payment will be determined by Work Authorization and may be by any of the methods listed below.

“X”	Basis	
_____	Lump Sum	The lump sum shall be equal to the maximum amount payable. The lump sum includes all direct and indirect costs and fixed fee. The Engineer shall be paid pro rata based on the percentage of work completed. For payment the Engineer is not required to provide evidence of actual hours worked, travel, overhead rates or other evidence of cost.
<u> X </u>	Unit Cost	The unit cost(s) for each type of unit and number of units are shown in the FCP. The unit cost includes all direct and indirect costs and fixed fee. The Engineer shall be paid based on the type and number of units fully completed and the respective unit cost. For payment, the Engineer is not required to provide evidence of actual hours worked, travel, overhead rates or any other cost data. The FCP may include special items, such as equipment which are not included in the unit costs. Documentation of these special costs may be required. The maximum amount payable equals the total of all units times their respective unit cost plus any special direct items shown.
<u> X </u>	Specified Rate Basis	The specified rates for each type of labor are shown in the FCP below. The FCP may include special items, such as equipment which are not included in the specified rates. Payment shall be based on the actual hours worked multiplied by the specified rate for each type of labor plus other agreed to special direct cost items. The specified rate includes direct labor and indirect cost and fixed fee. The Authority may request documentation of reimbursable direct costs including hours worked. Documentation of special item costs may be required. The specified rate is not subject to audit.
_____	Cost Plus Fixed Fee	<p>Payment shall be based on direct and indirect costs incurred <u>plus</u> a pro rata share of the fixed fee based on the ratio of <u>labor and overhead cost incurred</u> to <u>total estimated labor and overhead cost in the FCP</u> or the percentage of work completed. The invoice must itemize labor rates, hours worked, other direct costs and indirect costs. The Engineer may be required to provide documentation of hours worked and any eligible direct costs claimed. The provisional overhead rate charged is subject to audit and adjustment to actual rates incurred. The FCP below shows the hourly rates for labor, other direct expenses including but not limited to travel and allowable materials, provisional overhead rate and the fixed fee.</p> <p style="margin-left: 40px;">___A. Actual Cost Plus Fixed Fee - Actual wages are paid (no minimum, no maximum.</p> <p style="margin-left: 40px;">___B. Range of Cost Plus Fixed Fee – Actual wages <u>must</u> be within the allowable range shown on the Final Cost Proposal.</p>

A. REFER TO ATTACHMENT E-2 FOR HOURLY SPECIFIED / LUMP SUM RATE SCHEDULE FOR EACH FIRM

ATTACHMENT F

WORK SCHEDULE

HCRMA Construction & Materials Testing Services
TOLL365 (SH 365)

Task Name	Start	Finish
Material Testing	10/1/2021	12/13/2025
Geotechnical	10/1/2021	12/13/2025
Other Analyses	10/1/2021	12/13/2025
All sampling and testing of components and materials	10/1/2021	12/13/2025
Hot Mix Asphalt Testing	10/1/2021	12/13/2025
Concrete Testing	10/1/2021	12/13/2025
Construction Oversight Documentation	10/1/2021	12/13/2025
Project Correspondence File (Design and Construction)	10/1/2021	12/13/2025

ATTACHMENT H-MOU

MEMORANDUM OF UNDERSTANDING REGARDING THE ADOPTION OF THE TEXAS DEPARTMENT OF TRANSPORTATION'S FEDERALLY-APPROVED DISADVANTAGED BUSINESS ENTERPRISE PROGRAM BY THE HIDALGO COUNTY REGIONAL MOBILITY AUTHORITY

This Memorandum of Understanding is by and between the **TEXAS DEPARTMENT OF TRANSPORTATION ("TxDOT")**, an agency of the State of Texas; and the Hidalgo County Regional Mobility Authority, a mobility authority created under the provisions of Chapter 370, Texas Transportation Code (the "RMA").

Whereas, from time to time from the Authority receives federal funds from the Federal Highway Administration ("FHWA") through TxDOT to assist the Authority with the construction and design of projects partially or wholly funded through FHWA; and

Whereas, the Authority, as a sub-recipient of federal funds, is required by 49 CFR 26, to implement a program for disadvantaged business enterprises ("DBEs"), as defined by 49 CFR 26 ("DBE Program"); and

Whereas, TxDOT has implemented a DBE Program that is approved by the Federal Highway Administration (FHWA) pursuant to 49 CFR part 26; and

Whereas, as a condition of receiving federal funds from FHWA through TxDOT, certain aspects of the Authority's procurement of construction and design services are subject to review and/or concurrence by TxDOT; and

Whereas, the Authority and TxDOT undertake substantially similar roadway construction projects and design projects and construct and design their respective projects using substantially the same pool of contractors; and

Whereas, the Authority desires to implement a federally compliant DBE Program by adopting the TxDOT approved program, as recommended by FHWA; and

Whereas, TxDOT and the Authority find it appropriate to enter into this Memorandum of Understanding to memorialize the obligations, expectations and rights each has as related to the Authority's adoption of the TxDOT DBE Program to meet the federal requirements;

Now, therefore, TxDOT and the Authority, in consideration of the mutual promises, covenants and conditions made herein, agree to and acknowledge the following:

(1) TxDOT has developed a DBE Program and annually establishes a DBE goal for Texas that are federally approved and compliant with 49 CFR 26 and other applicable laws and regulations.

(2) The Authority anticipates being a sub-recipient of federal assistance for construction projects and design projects and, in accordance with 49 CFR § 26.21, must implement a federally approved DBE Program. The Authority receives its federal assistance through TxDOT. As a sub-recipient, the Authority has the option of developing its own program or adopting and operating under TxDOT's federally approved DBE Program. The FHWA recommends that sub-recipients, such as the Authority, adopt the DBE program, administered through TxDOT, and the Authority by its prescribed protocol adopted the TxDOT DBE Program on August 8, 2007.

(3) This Memorandum of Understanding evidences FHWA's and TxDOT's consent to the adoption of the TxDOT DBE Program by the Authority to achieve its DBE participation in federally assisted Construction

158111-1 163.000

ATTACHMENT H-MOU

MEMORANDUM OF UNDERSTANDING REGARDING THE ADOPTION OF THE TEXAS DEPARTMENT OF TRANSPORTATION'S FEDERALLY-APPROVED DISADVANTAGED BUSINESS ENTERPRISE PROGRAM BY THE HIDALGO COUNTY REGIONAL MOBILITY AUTHORITY

and Design Projects.

(4) The parties will work together in good faith to assure effective and efficient implementation of the DBE Program for the Authority and for TxDOT.

(5) the Authority and TxDOT have agreed upon the following delegation of responsibilities and obligations in the administration of the DBE Program adopted by the Authority:

(a) The Authority will be responsible for project monitoring and data reporting to TxDOT. The Authority will furnish to TxDOT any required DBE contractor compliance reports, documents or other information as may be required from time to time to comply with federal regulations. TxDOT will provide the necessary and appropriate reporting forms, if any, to the Authority.

(b) The Authority will recommend contract-specific DBE goals, if any, consistent with TxDOT's DBE guidelines and in consideration of the local market, project size, and nature of the good(s) or service(s) to be acquired. The Authority's recommendation may be that no DBE goals are set on any particular project or portion of a project or that proposed DBE goals be modified. The Authority and TxDOT will work together to achieve a mutually acceptable goal; however, TxDOT will retain final decision-making authority on those issues.

(c) TxDOT will cooperate with the Authority in an effort to meet the timing and other requirements of the Authority's projects.

(d) The Authority will be solely responsible for the solicitation and structuring of bids and bid documents to procure goods and services for its Construction and Design Projects and will be responsible for all costs and expenses incurred in its procurements.

(e) The DBEs eligible to participate on TxDOT construction projects or design projects also will be eligible to participate on the Authority's construction projects or design projects subject to the DBE Program, unless otherwise prohibited from bidding on a the Authority's project under applicable law or the Authority's procurement policy. The DBEs will be listed on TxDOT's website under the Texas Unified Certification Program (TUCP).

(f) The Authority will conduct investigations and provide reports with recommendations to TxDOT concerning any DBE Program compliance issues that may arise due to project specific requirements such as Good Faith Effort (GFE), Commercially Useful Function (CUF), etc. The Authority and TxDOT will work together to achieve a mutually acceptable goal; however, TxDOT will retain final decision-making authority on those issues and reserves the right to perform compliance reviews by TxDOT's Office of Civil Rights (OCR).

(g) The Authority will designate a liaison officer to coordinate efforts with TxDOT's DBE Program administrators and to respond to questions from the public and private sector regarding the Authority's administration of the DBE Program through TxDOT.

(h) The Authority will be responsible for providing TxDOT with DBE project awards and DBE Commitments, monthly DBE reports, DBE Final Reports, DBE shortfall reports, and annual and updated goal analysis and reports.

(i) TxDOT will be responsible for maintaining a directory of firms eligible to participate in the DBE Program, and providing business development and outreach programs. The Authority and TxDOT will work cooperatively to provide supportive services and outreach to DBE firms in the Hidalgo County area.

ATTACHMENT H-MOU

MEMORANDUM OF UNDERSTANDING REGARDING THE ADOPTION OF THE TEXAS DEPARTMENT OF TRANSPORTATION'S FEDERALLY-APPROVED DISADVANTAGED BUSINESS ENTERPRISE PROGRAM BY THE HIDALGO COUNTY REGIONAL MOBILITY AUTHORITY

- (j) The Authority will submit DBE semi-annual progress reports to TxDOT.
- (k) The Authority will participate in TxDOT sponsored training classes to include topics on DBE Annual Goals, DBE Goal Setting for Construction Projects and Design Projects, DBE Contract Provisions, and DBE Contract Compliance, which may include issues such as DBE Commitments, DBE Substitution, and Final DBE Clearance. TxDOT will include DBE contractors performing work on the Authority projects in the DBE Education and Outreach Programs.
- (6) In the event there is a disagreement between TxDOT and the Authority about the implementation of the TxDOT DBE Program by the Authority, the parties agree to meet within ten (10) days of receiving a written request from the other party of a desire to meet to resolve any disagreement. The parties will make good faith efforts to resolve any disagreement as efficiently as is reasonably possible in consultation with FHWA. Non-compliance by the Authority can result in restitution of federal funds to TxDOT and withholding of further federal funds upon consultation with FHWA.
- (7) This Memorandum of Understanding becomes effective upon execution by all parties and automatically renews each year unless a party notifies the other parties of its intent to terminate the agreement.
- (8) If this Memorandum of Understanding is terminated for any reason, the Authority will be allowed reasonable time in which to seek approval from FHWA for an alternative DBE Program, without being deemed non-compliant with 49 CFR Part 26.
- (9) This Memorandum of Understanding applies only to projects for which the Authority is a sub-recipient of federal funds through TxDOT. The Authority may also implement a Minority and Women-Owned Small Business Enterprise (M/W/SBE) policy and program that applies to projects for which it is not a sub-recipient of federal funds through TxDOT and which are not subject to the TxDOT DBE Program. The Authority may, at its option, use some aspects of the TxDOT DBE Program and other similar programs in implementing its other policies and programs for its non-federally funded projects.
- (10) The following attachments to this Memorandum of Understanding ("MOU") are incorporated as if fully set out herein for all purposes: Attachment A - FHWA Memorandum HCR-1/HIF-1 (relating to access required by the Americans with Disabilities Act of 1990 and Section 504 of the Rehabilitation Act of 1973); Attachment B - SPECIAL PROVISION 000-461; Attachment C - Comprehensive Development Agreement (CDA) DBE Provisions (with TxDOT's DBE Program attached); and Attachment D - 49 CFR §26.13 (contractual assurances). In the case of any conflict between the SPECIAL PROVISION and CDA DBE Provisions and TxDOT's DBE Program, the provisions of the first two documents shall prevail in regard to CDAs only.
- (11) The following procedure shall be observed by the parties in regard to any notifications:
- (a) Any notice required or permitted to be given under this Memorandum of Understanding shall be in writing and may be effected by personal delivery, by hand delivery through a courier or a delivery service, or by registered or certified mail, postage prepaid, return receipt requested, addressed to the proper party, at the following address:

HIDALGO COUNTY REGIONAL MOBILITY AUTHORITY:

Dennis Burleson
Chairman
c/o LRGVDC
311 N. 15th Street

158111-1 163.000

ATTACHMENT H-MOU

MEMORANDUM OF UNDERSTANDING REGARDING THE ADOPTION OF THE TEXAS DEPARTMENT OF TRANSPORTATION'S FEDERALLY-APPROVED DISADVANTAGED BUSINESS ENTERPRISE PROGRAM BY THE HIDALGO COUNTY REGIONAL MOBILITY AUTHORITY

McAllen, Texas 78501-4705

With a copy to:

Blakely L. Fernandez
Tuggey Rosenthal Pauerstein Sandoloski Agather LLP
755 E. Mulberry, Ste. 200
San Antonio, Texas 78212

TEXAS DEPARTMENT OF TRANSPORTATION

Amadeo Saenz, Jr. P.E.
Executive Director
125 E. 11th Street
Austin, Texas 78701

(b) Notice by personal delivery or hand delivery shall be deemed effective immediately upon delivery, provided notice is given as required by Paragraph (a) hereof. Notice by registered or certified mail shall be deemed effective three (3) days after deposit in a U.S. mailbox or U.S. Post Office, provided notice is given as required by Paragraph (a) hereof.

(c) Either party hereto may change its address by giving notice as provided herein.

(12) This Memorandum of Understanding may be modified or amended only by written instrument, signed by both the Authority and the TxDOT and dated subsequent to the date(s) of this MOU. Except as authorized by the respective parties, no official, employee, agent, or representative of the parties has any authority, either express or implied, to modify or amend this MOU.

(13) The provisions of this MOU are severable. If any clause, sentence, provision, paragraph, or article of this MOU, or the application of this MOU to any person or circumstance is held by any court of competent jurisdiction to be invalid, illegal, or unenforceable for any reason, such invalidity, illegality, or unenforceability shall not impair, invalidate, nullify, or otherwise affect the remainder of this MOU, but the effect thereof shall be limited to the clause, sentence, provision, paragraph, or article so held to be invalid, illegal, or unenforceable, and the application of such clause, sentence, provision, paragraph, or article to other persons or circumstances shall not be affected; provided, however, the Authority and TxDOT may mutually agree to terminate this Memorandum of Understanding.

(14) The following provisions apply in regard to construction of this MOU:

(a) Words of any gender in this MOU shall be construed to include the other, and words in either number shall be construed to include the other, unless the context in this MOU clearly requires otherwise.

(b) When any period of time is stated in this MOU, the time shall be computed to exclude the first day and include the last day of the period. If the last day of any period falls on a Saturday, Sunday, or national holiday, or state or county holiday, these days shall be omitted from the computation. All hours stated in this MOU are stated in Central Standard Time or in Central Daylight Savings Time, as applicable.

(15) This Memorandum of Understanding shall not be construed in any way as a waiver by the parties of any immunities from suit or liability that parties may have by operation of law, and the parties hereby retain all of their respective affirmative defenses.

158111-1 163.000

ATTACHMENT H-MOU

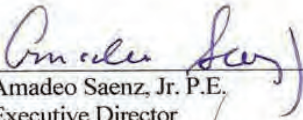
MEMORANDUM OF UNDERSTANDING
REGARDING THE ADOPTION OF THE TEXAS DEPARTMENT OF
TRANSPORTATION'S FEDERALY-APPROVED DISADVANTAGED BUSINESS
ENTERPRISE PROGRAM BY
THE HIDALGO COUNTY REGIONAL MOBILITY AUTHORITY

EXECUTED by TxDOT and the Authority, acting through each duly authorized official and effective on the latest date signed.

The signatories below confirm that they have the authority to execute this MOU and bind their principles.

TEXAS DEPARTMENT OF TRANSPORTATION

HIDALGO COUNTY REGIONAL MOBILITY
AUTHORITY

By: 
Amadeo Saenz, Jr. P.E.
Executive Director

By: 
Dennis Burleson
Chairman

Date: 3/13/08

Date: 2/13/2008

THIS ITEM WILL BE
SENT UNDER
SEPERATE COVER

This Page
Intentionally
Left Blank

Item 4E

HIDALGO COUNTY REGIONAL MOBILITY AUTHORITY

AGENDA RECOMMENDATION FORM

BOARD OF DIRECTORS
PLANNING COMMITTEE
FINANCE COMMITTEE
TECHNICAL COMMITTEE

 X

AGENDA ITEM
DATE SUBMITTED
MEETING DATE

 4E
 1/16/2025
 1/24/2025

1. Agenda Item: **RESOLUTION 2025-06 – CONSIDERATION AND APPROVAL OF CONTRACT AMENDMENT NUMBER 2 TO THE PROFESSIONAL SERVICE AGREEMENT WITH TERRACON CONSULTANTS, INC. TO INCREASE THE MAXIMUM PAYABLE AMOUNT FOR WORK AUTHORIZATION NUMBER 3.**
2. Nature of Request: (Brief Overview) Attachments: X Yes No
Approval of Resolution 2025-06 for CA No. 2.
3. Policy Implication: Board Policy, Local Government Code, Texas Government Code, Texas Transportation Code, TxDOT Policy
4. Budgeted: Yes No X N/A
5. Staff Recommendation: **Motion to approve Resolution 2025-06 – Consideration and Approval of Contract Amendment Number 2 to the professional service agreement with Terracon Consultants, Inc. to increase the maximum payable amount for Work Authorization Number 3, as presented.**
6. Program Manager's Recommendation: Approved Disapproved X None
7. Planning Committee's Recommendation: Approved Disapproved X None
8. Board Attorney's Recommendation: Approved Disapproved X None
9. Chief Auditor's Recommendation: Approved Disapproved X None
10. Chief Financial Officer's Recommendation: Approved Disapproved X None
10. Chief Development Engineer's Recommendation: Approved Disapproved X None
11. Chief Construction Engineer's Recommendation: X Approved Disapproved X None
12. Executive Director's Recommendation: X Approved Disapproved None



Memorandum

To: Pilar Rodriguez, P.E
HCRMA, Executive Director

From: Ramon Navarro, IV, P.E., C.F.M.
HCRMA, Chief Construction Engineer

Date: January 17, 2025

Subject: Resolution 2025-06 – Consideration and approval of Contract Amendment Number 2 to the Professional Service Agreement with Terracon Consultants, Inc. to increase maximum payable amount for Work Authorization Number 3.

GOAL

Approval and authorization to increase maximum payable amount for PSA with Terracon Consultants, INC. for Construction Material Testing Services with Terracon Consultants, INC. .

HISTORY

On September 21, 2021 a main contract for an “indefinite delivery/indefinite quantity [IDIQ]” set of rates was issued to Terracon Consultants, INC. to provide construction materials testing to assure the materials incorporated into 12.3 miles of concrete paving section on Phase II of 365 Toll highway construction project are subject to verification sampling and testing when needed and meet project plans and specifications.

RECOMMENDATION

Staff recommends approval of Contract Amendment Number 2 to the Professional Services Agreement with Terracon for construction materials testing for the 365 Tollway Project in the amount of \$2,200,000.00, therefore amending total contract amount to \$4,325,031.68/.



☒ CMT Services **Terracon Consulting Engineers**

☐ Environmental

☐ Engineering

☐ Geo-Technical

☐ Surveying

CONTRACT AMENDMENT SUMMARY

RESOLUTION 2025-06

Original Contract Amount \$ 2,125,032

Amendment # 2

Amount \$ 2,200,000.00

Approved Amendments:

Resolution No.	Description	Amount
2021-38	Original Contract	\$ 1,950,258.64
2022-37	CA 1 - WA No. 2	\$ 174,773.04

Subtotal from Cont. Page \$ 0.00

Contract Amount **\$ 2,125,031.68**

Proposed Amendment

2025-06	Contract Amendment 2	\$ 2,200,000.00
---------	----------------------	------------------------

Goal and Options:

Resolution 2025-06 – Consideration and approval of Contract Amendment Number 2 to the Professional Service Agreement with Terracon Consultants, Inc. to increase maximum payable amount for Work Authorization Number 3.

**Staff is recommending approval of this request in the amount of \$ 2,200,000.00
for a revised Maximum Payable Amount of \$ 4,325,031.68**

R. Navarro, Const Eng

Requested by:

HIDALGO COUNTY REGIONAL MOBILITY AUTHORITY

BOARD RESOLUTION No. 2025-06

**CONSIDERATION AND APPROVAL OF CONTRACT AMENDMENT NUMBER 2
TO THE PROFESSIONAL SERVICE AGREEMENT WITH TERRACON TO
PROVIDE CMT FOR THE 365 TOLLWAY PROJECT**

THIS RESOLUTION is adopted this 24th day of January, 2025, by the Board of Directors of the Hidalgo County Regional Mobility Authority at a regular meeting.

WHEREAS, the Hidalgo County Regional Mobility Authority (the “Authority”), acting through its Board of Directors (the “Board”), is a regional mobility authority created pursuant to Chapter 370, Texas Transportation Code, as amended (the “Act”);

WHEREAS, the Authority is authorized by the Act to address mobility issues in and around Hidalgo County;

WHEREAS, on February 19, 2014, the Authority issued a solicitation for Statements of Qualification for Construction Material Testing Services for the Authority (the “Solicitation”); and

WHEREAS, on March 21, 2014 the Authority received responses to the Solicitation; and

WHEREAS, on April 23, 2014, Resolution 2014-38 authorized Authority staff to negotiate and enter into agreements with the top three scored firms (Raba Kistner Consultants Inc., L&G Laboratories and Terracon Consultants, Inc.) for Construction Material Testing Services (the “Services”); and

WHEREAS, on July 24, 2018, Resolution 2018-45 authorized Authority staff to procure one additional lab to provide additional Services; and

WHEREAS, on July 29, 2018, the Authority published a second Solicitation; and received three (3) responses, of which only one was deemed responsive;

WHEREAS, on September 25, 2018, the Authority authorized staff to negotiate contract terms for the Services to PaveTex Engineering LLC, dba PAVETEX, the sole responsive firm that met the professional services criteria set forth in the Solicitation;

WHEREAS, on August 21, 2020, the Authority received five (5) sealed statements of qualification packets. An internal committee of three HCRMA staff engineers ranked and reviewed; the Authority determined it necessary to negotiate contract terms to enter into negotiations with each of the ranked firms and further approach Board with recommended award and distribution of work in accordance to acceptable terms and conditions of assignments; and

WHEREAS on October 27, 2020, the Authority approved Resolution 2020- 28 Approval to enter into negotiations with each of the short-listed firms for Construction Material Testing for the Hidalgo County Regional Mobility Authority and further approach Board with recommended award and distribution of work in accordance to acceptable terms and conditions of assignments; and

WHEREAS on September 28, 2021, the Hidalgo County Regional Mobility Authority approved Resolution 2021-38 Approval of Award of Contract by and between the Terracon Consultants, Inc., and the Hidalgo County Regional Mobility Authority for Construction Material Testing Services in the amount of \$1,950,258.64; and,

WHEREAS on September 28, 2021, Authority approved Resolution 2021-39 Approval of Work Authorization 1 to the professional Service Agreement with Terracon, Inc., for Construction Material Testing in the 365 Tollway Project in the amount of \$1,950,258.64; and

WHEREAS on April 26, 2022, the Authority to approved Resolution 2022-30 Approval of Award of Contract by and between the Terracon Consultants, Inc., and the Hidalgo County Regional Mobility Authority in the amount of \$174,773.04 with Terracon Consultants Inc. for investigative construction materials testing of archaeological sites for the Texas Historical Commission permit on the 365 Tollway Project; and

WHEREAS, on December 12, 2023, the Authority approved Resolutions 2023-52 – Consideration and approval of Work Authorization 2 Supplemental 1 to the Professional Services Agreement with Terracon for a no-cost time extension to provide CMT Archaeological site for the Texas Commission Permit for the 365 Tollway Project; and

WHEREAS, the Authority finds it necessary to approve Resolutions 2025-06 – Consideration and approval of Contract Amendment Number 2 to the Professional Services Agreement with Terracon for construction materials testing for the 365 Tollway Project in the amount of \$2,200,000.00, therefore amending total contract amount to \$4,325,031.68.

NOW THEREFORE, BE IT RESOLVED, BY THE BOARD OF
DIRECTORS OF THE HIDALGO COUNTY REGIONAL MOBILITY
AUTHORITY THAT:

- Section 1. The recital clauses are incorporated in the text of this Resolution as if fully restated.
- Section 2. The Board hereby approves Contract Amendment 2 to the Professional Service Agreement with Terracon Consultants, Inc., to provide Construction Material Testing Services, hereto attached as Exhibit A.
- Section 3. The Board authorizes the Executive Director to execute the Contract Amendment 2 to the Professional Service Agreement with Terracon Consultants, Inc., to provide Construction Material Testing services to the Hidalgo County Regional Mobility Authority.

PASSED AND APPROVED AS TO BE EFFECTIVE IMMEDIATELY BY THE BOARD OF DIRECTORS OF THE HIDALGO COUNTY REGIONAL MOBILITY AUTHORITY AT A REGULAR MEETING, duly posted and noticed, on the 24th day of January 2025, at which meeting a quorum was present.

Robert L. Lozano, Chairman

Juan Carlos Del Ángel, Secretary/Treasurer

Exhibit A

Contract Amendment Number 2
Professional Service Agreement with
Terracon Consultants, Inc.
For
Construction Material Testing Services

SUPPLEMENTAL AGREEMENT NO. 2

**TO PROFESSIONAL SERVICES
AGREEMENT FOR ENGINEERING SERVICES**

THIS SUPPLEMENTAL AGREEMENT NO 2 TO MAIN CONTRACT is made pursuant to the terms and conditions of “Attachment A General Provisions, Section 6, Supplemental Agreements of that certain Professional Services Agreement for Engineering Services” (the Agreement) entered into by and between the Hidalgo County Regional Mobility Authority (Authority), and Terracon Consultants, Inc. Engineering, LLC (the Engineer).

The following terms and conditions of the Agreement are hereby amended as follows:

Article II Agreement Period

This Agreement becomes effective when fully executed by all parties hereto and it shall terminate at the close of business on April 24, 2026.

Article III Compensation

Article III Compensation shall be amended to increase the maximum amount payable under this contract from \$2,125,031.68 to \$4,325,031.68 for a total increase of \$2,200,000.00 due to additional scope and effort outlined in Work Authorization No. 14 for updated bringdown letter for volumetric tolling for the 365 Tollway Project.

This Supplemental Agreement No. 2 to the Main Contract shall become effective on the date of final execution of the parties hereto. All other terms and conditions of the Agreement not hereby amended are to remain in full force and effect.

THE ENGINEER

(Signature)
Jorge A. Flores, P.G.

(Printed Name)
Client Manager

(Title)

Dated

THE AUTHORITY

(Signature)
Pilar Rodriguez

(Printed Name)
Executive Director

(Title)

(Date)

THIS ITEM WILL BE
SENT UNDER
SEPERATE COVER

This Page
Intentionally
Left Blank

Item 4F

HIDALGO COUNTY REGIONAL MOBILITY AUTHORITY

AGENDA RECOMMENDATION FORM

BOARD OF DIRECTORS
PLANNING COMMITTEE
FINANCE COMMITTEE
TECHNICAL COMMITTEE

 X

WORKSHOP ITEM
DATE SUBMITTED
MEETING DATE

 4F
 1/17/2025
 1/24/2025

1. Agenda Item: **RESOLUTION 2025-08 – CONSIDERATION AND APPROVAL OF CHANGE ORDER NUMBER 15 TO THAT CERTAIN CONTRACT WITH POLICE CONSTRUCTION, INC., FOR THE 365 TOLLWAY.**
2. Nature of Request: (Brief Overview) Attachments: X Yes No
Consideration and Approval of Change Order Number 15.
3. Policy Implication: Board Policy, Local Government Code, Texas Government Code, Texas Transportation Code, TxDOT Policy
4. Budgeted: Yes No X N/A
5. Staff Recommendation: **Resolution 2025-08 – Consideration and approval of Change Order Number 15 to that certain contract with Pulice Construction, Inc., for the 365 Tollway, as presented.**
6. Program Manager's Recommendation: Approved Disapproved X None
7. Planning Committee's Recommendation: Approved Disapproved X None
8. Board Attorney's Recommendation: Approved Disapproved X None
9. Chief Auditor's Recommendation: Approved Disapproved X None
10. Chief Financial Officer's Recommendation: Approved Disapproved X None
11. Development Engineer's Recommendation: Approved Disapproved X None
12. Chief Construction Engineer's Recommendation: X Approved Disapproved None
13. Executive Director's Recommendation: Approved Disapproved X None



HCRMA
HIDALGO COUNTY REGIONAL MOBILITY AUTHORITY

Memorandum

To: PilarRodriguez, PE, Executive Director

From: Ramon Navarro IV, P.E., Chief Construction Engineer

Date: January 20, 2025

Re: **2025-08: CONSIDERATION AND APPROVAL OF CHANGE ORDER NUMBER 15 TO THAT CERTAIN CONSTRUCTION CONTRACT WITH PULICE CONSTRUCTION, INC. FOR THE 365 TOLLWAY.**

Due to ongoing requests from Hidalgo County Irrigation District #2, unanticipated parameters and numerous conditional changes in requirements, untimely reviews of requested changes, and unavailability of lines due District's water disbursement various subcontractors of Pulice Construction Inc. have encountered scheduling delays. These delays incur expenses in scheduling crews and mobilizing specialized equipment. The presented conditions are beyond their control.

HCRMA Construction Engineer and HDR staff have reviewed, revised drawings, adjusted item quantities in accordance with contract specifications; and are anxiously awaiting scheduling authorization to formally execute changes and implement production. All quantity changes shall be programmed, monitored for budget and reconciled at the project's final acceptance.

We are requesting authorization of Change Order #15 for remobilization fees (@\$75,000) at two locations US281 Sta 1086+00 [pipe class] on 12/13/2023 and cast-in-place requirements delay for total of \$150,000.

HIDALGO COUNTY REGIONAL MOBILITY AUTHORITY
BOARD RESOLUTION No. 2025-08

**CONSIDERATION AND APPROVAL OF CHANGE ORDER NUMBER FIFTEEN (15) TO
THAT CERTAIN CONTRACT WITH PULICE CONSTRUCTION, INC. FOR THE 365
TOLLWAY**

THIS RESOLUTION is adopted this 24th day of January, 2025 by the Board of Directors of the Hidalgo County Regional Mobility Authority at a regular meeting.

WHEREAS, the Hidalgo County Regional Mobility Authority (the "Authority"), acting through its Board of Directors (the "Board"), is a regional mobility authority created pursuant to Chapter 370, Texas Transportation Code, as amended (the "Act"); and

WHEREAS, on November 17, 2005, the Texas Transportation Commission (the "Commission") created the Authority pursuant to (i) the Act; (ii) Title 43, Texas Administrative Code; (iii) a petition of the Hidalgo County Commissioners Court (the "County"); and (iv) findings by the Commission that the creation of the Authority would result in certain direct benefits to the State of Texas (the "State"), local governments, and the traveling public and would improve the State's transportation system; and

WHEREAS, the Act allows the Authority to construct transportation projects within the County, including the 365 Tollway Project (the "Project"); and

WHEREAS, the Texas Department of Transportation approved the Project's final design, contract letting and award procedures, and form of construction contract, including a post-award value engineering change proposal process; and

WHEREAS, on August 8, 2021, August 11, 2021, August 15, 2021, August 18, 2021, August 22, 2021, and August 25, 2021 the Authority published a solicitation for Bid #2021-00 I for the 365 Tollway Project (Segments I and 2), Contract No. 0921-02-368 for the Project; and

WHEREAS, bids for the Project were submitted electronically via Civcast Bid System; the first bid was received at 2:27 p.m. on October 13, 2021, and the last bid was received at 2:51 pm on October 13, 2021; and

WHEREAS, at 3:05 p.m. on October 13, 2021, the Authority opened and read into the record three (3) formal sealed, electronic bids for the Project from: (i) Pulice Construction, Inc., (ii) Webber, LLC., and Anderson Columbia Co., Inc., in amounts ranging from \$295,932,420.25 to \$340,409,415.64 for construction of the Project; and

WHEREAS, Pulice Construction, Inc. provided the lowest Project bid in the amount of \$295,932,420.25; and

WHEREAS, on October 19, 2021, the Board approved Resolution 2021-46 conditionally awarding the construction contract of the 365 Toll Project to the lowest, responsive, and responsible bidder Pulice Construction, Inc. in the amount of \$295,932,420.25; and

WHEREAS, on November 10, 2021, the Board approved Resolution 2021-54, approving Change Order Number One (1) to the construction contract with Pulice Construction Inc.; provided, there was no issuance of an NTP to Pulice Construction Inc. until a Value Engineering Proposal ("VECP") was approved by the Board of Directors and TxDOT to establish the financing for the Project. If, after the VECP process, the Project scope was not deemed feasible and additional revenue was not available to fully fund the Project, no NTP would be issued and the Authority would have terminated the contract without incurring any additional costs other than those approved under Change Order Number One. The VECP is structured to identify concepts and function oriented techniques to improve the value of the Project, or any component thereof, including improvements to schedule, operating costs, constructability, and risk mitigation; without altering scope or environmental justices; and

WHEREAS, on December 20, 2021, the Authority approved Resolution 2021- 78, authorizing the VECP proposals outlined in Exhibit A to Change Order Number Two (2) and the revising the contract amount to \$281,723,797.95; and, the Authority also authorized a contingency fund for the Project in the amount of \$5,000,000, and established a total overall Project cost of \$286,723,797.95;

WHEREAS, the Authority and the Board amended the Contract through Amendment No. 1 to capture the risk allocations and make other Contract clarifications in support of VECP; and

WHEREAS on April 19, 2022, the Authority approved Resolution 2022-36, consideration and approval of Change Order Number Three (3) to that certain construction contract with Pulice Construction Inc. for the 365 Tollway Project, in order to further establish the VECP concepts and supporting details as provided in Exhibit A hereto;

WHEREAS on November 4, 2021, Pulice Construction Inc, expressed concern on Engineer of Record's scour reports and calculated foundation loads. Upon discussions, data collection and research, November 16, 2022, the HCRMA requested HDR[GEC] provide investigative recommendation.

WHEREAS on December 7, 2022, HOR provided review and supporting documentation in upsizing particular bent foundations at PCI proposal and costs;

WHEREAS, on January 24, 2023, the Authority approved Resolution 2023- 05, Change Order Number Four (4) to the construction contract with Pulice Construction Inc. for the net cost increase of \$171,516.59, by removal of 1 ,524LF of Drill Shaft (42") and introducing 48" drill shafts to incorporate detailed, finalized quantities and unit costs; and establishes State/Federal participation on modified unit costs, assuring compliance with the standard specifications included within the contract; and,

WHEREAS, on July 25, 2023, the HCRMA Board approved Resolution 2023-30, Change Order Number Five (5) to that certain construction contract with Pulice Construction Inc. for the 365 Tollway Project, Change Order Number 5 provides a net cost increase of \$4,325,130.78 to be fully paid by HCRMA [Owner]. Establishing a new revised contract price of \$286,220,445.32 with no additional time; and, incorporates detailed, finalized quantities and unit costs; and establishes State/Federal participation on modified unit costs, assuring compliance with the standard specifications included within the contract;

WHEREAS, on July 9, 2024, the Board's approved Resolution 2024-27, for authorization of Change Orders Number Six (6) through thirteen (13) to that certain construction contract with Pulice Construction Inc. for the 365 Tollway Project. The sum of Change Orders proves a net cost increase of \$832,561.77 to be fully paid by HCRMA [Owner]. Establishing a new revised contract price of \$287,053,007.09 with no additional time; and, incorporates detailed, finalized quantities and unit costs; and establishes State/Federal participation on modified unit costs, assuring compliance with the standard specifications included within the contract. Attached exhibits provide current assessment and breakdown; and

WHEREAS, on December 17, 2024 the Authority approved Resolution 2024-52, for authorization of Change Orders Number Fourteen (14) to that certain construction contract with Pulice Construction Inc. for the 365 Tollway Project. The sum of Change Orders proves a maximum cost increase of \$492,363.86 to be fully paid by HCRMA [Owner]. Establishing a new revised contract price of \$287,335,648.95 with no additional time; and, incorporates detailed, finalized quantities and unit costs; and establishes no State/Federal participation on modified unit costs, assuring compliance with the standard specifications included within the contract. Attached exhibits provide current assessment and breakdown; and

WHEREAS, the Authority finds it necessary to approve Resolution 2025-07, for authorization of the revised Change Order Number Fourteen (14) to that certain construction contract with Pulice Construction Inc. for the 365 Tollway Project. The sum of Change Order #14 proves a maximum cost increase of \$449,436.36; and,

WHEREAS, the Authority finds it necessary to approve Resolution 2025-08, for authorization for Change Order Number Fifteen (15) to that certain construction contract with Pulice Construction Inc. for the 365 Tollway Project. The sum of Change Order Number Fifteen increases cost by \$150,000; and to be fully paid by HCRMA [Owner]. Establishing a new revised contract price of \$287,442,721.45 with no additional time; and, incorporates detailed, finalized quantities and unit costs; and establishes no State/ Federal participation on modified unit costs, assuring compliance with the standard specifications included within the contract. Attached exhibits provide current assessment and breakdown.

NOW THEREFORE BE IT RESOLVED BY THE BOARD OF DIRECTORS
OF THE HIDALGO COUNTY REGIONAL MOBILITY AUTHORITY THAT:

Section 1. The recital clauses are incorporated in the text of this Resolution as if fully restated.

Section 2. The Board hereby approves Change Orders Number Fifteen (15) to the construction contract with Pulice Construction Inc. for the net cost increase of \$150,000 for mobilization fees.

Section 3. Construction of the 365 Toll Project in substantially final form as hereto detailed, revising and establishing a unit bid construction amount of \$265,931,713.90, and an overall contract amount of \$287,442,721.45.

Section 4. Upon final acceptance from FHWA/TxDOT and HCRMA Legal's review of final form; The Board hereby authorizes the Executive Director to execute Change Order Number Fifteen.

PASSED AND APPROVED AS TO BE EFFECTIVE IMMEDIATELY BY THE BOARD OF DIRECTORS AND THE HIDALGO COUNTY REGIONAL MOBILITY AUTHORITY AT A REGULAR MEETING duly posted and noticed, on the 24th day of January 2025, at which meeting a quorum was present.

Robert L. Lozano, Chairman

Juan Carlos Del Angel, Secretary/Treasurer

**CONSTRUCTION CONTRACT CHANGE ORDER NUMBER: 15**1. CONTRACTOR: PULICE CONSTRUCTION INC.2. Change Order Work Limits: Sta. 1089+00 to Sta. _____3. Type of Change (on federal-aid non-exempt projects): Minor (Major/Minor)

4. Describe the change and the reason for the change order. When necessary, include exceptions to this agreement.

December 13, 2023/April 15, 2024 Pulice provided notice to HCRMA that the remaining drill shafts for Dicker, San Juan Canal, Jackson, and Cage were on hold due to utility conflicts and impacts from HCID #2.

CCSJ: 0921-02-368
Project: DMO2013(420)
Highway: 365 Tollway
County: Hidalgo
District: PHARR
Contract Number: ALN:20.205

5. New or revised plan sheet(s) are attached and numbered: _____

Each signatory hereby warrants that each has the authority to execute this Change Order.

By signing this change order, the contractor agrees to waive any and all claims for additional compensation due to any and all other expenses; additional changes for time, overhead and profit; or loss of compensation as a result of this change. Further, the contractor agrees that this agreement is made in accordance with Item 4 and the Contract. Exceptions should be noted in the response for #5 above.

The following information must be provided

Time Ext. #: _____ Days added on this C.O.: 0
Amt. added by this change order: \$150,000.00

For TxDOT use only:

THE CONTRACTOR _____ Date _____

By _____

Typed/Printed Name _____

Typed/Printed Title _____

Days participating: _____

Amount participating: _____

Signature _____ Date _____

Name/Title _____

RECOMMENDED FOR EXECUTION:

Ramon Navarro IV, Chief Construction Eng 01/22/25
Name/Title _____ Date _____

Name/Title _____ Date 01/22/2025
☐ APPROVED ☒ REQUEST APPROVAL

Pilar Rodriguez, Executive Director 01/24/25
Name/Title _____ Date _____

Name/Title _____ Date 01/24/2025
☒ APPROVED ☐ REQUEST APPROVAL

Name/Title _____ Date _____

Name/Title _____ Date _____
☐ APPROVED ☐ REQUEST APPROVAL

Name/Title _____ Date _____

Name/Title _____ Date _____
☐ APPROVED

Engineer's Seal:

CONSTRUCTION CONTRACT CHANGE ORDER NUMBER: _____

Estimated Cost:

CCSJ: _____ Paid by Invoice? (☐ Yes ☐ No)

TABLE A: Force Account Work and Materials Placed into Stock

LABOR	HOURLY RATE	EQUIPMENT	HOURLY RATE

TABLE B: Contract Items

				ORIGINAL + PREVIOUSLY REVISED		NEW		
ITEM	DESCRIPTION	UNIT	UNIT PRICE	QUANTITY	ITEM COST	QUANTITY	ITEM COST	OVERRUN/ UNDERRUN
0500-6035	MOBILIZATION AT US281	EA	75,000.00	0.00	0.00	2.00	150,000.00	150,000.00
TOTALS					0.00		150,000.00	150,000.00

December 13, 2023

DCN: Pulice-HCRMA-0039

Ramon Navarro IV, P.E., C.F.M.
Chief Construction Engineer
Hidalgo County Regional Mobility Authority
203 W. Newcombe Avenue
Pharr, TX 78577

Project: **365 Toll Project (Seg 1 & 2)**

Subject: **Notice of Impact: Drill Shafts**

Mr. Navarro,

This is to notify HCRMA of an impact in the above referenced project. The drill shafts for the Floodway bridge were completed yesterday. The remaining drill shafts on the project will be on hold due to the following impacts:

- Dicker – Conflict with AEP distribution line.
- San Juan Canal – Redesign for HCID #2.
- Jackson – Construction of 9x9 Box Culvert on hold due to issue with HCID #2, and AEP Transmission line in conflict with Levee relocation.
- Cage – Installation of 72" LHPP and water line on hold due to issue with HCID #2.

This unanticipated impact is beyond the control of Pulice and has the potential to delay the project. Pulice will evaluate this impact and will track it according to the HCRMA's specification guidelines and will submit to the HCRMA a request for added time, mobilization, and project overhead costs once they are known.

Pulice is requesting the HCRMA's assistance to resolve pending issues as soon as possible to avoid delays.

If you have any further questions regarding the information in this letter, please do not hesitate to contact me.

Sincerely,



Rafael Carmona
Project Manager
Pulice Construction Inc.



Outlook

RE: Pending Items (HCID #2)-Toll 365 Project

From astambaugh@hcid2.org <astambaugh@hcid2.org>

Date Wed 11/29/2023 10:35 AM

To Ramon Navarro, IV, PE, CFM <ramon.navarro@hcrma.net>

Cc 'Sonny Hinojosa' <sh_hcid2@sbcglobal.net>; gp_hcid2@att.net <gp_hcid2@att.net>; Pilar Rodriguez, PE <prodriguez@hcrma.net>

Good morning,

We are available Tuesday, December 5th from 15:00 to 17:00.

If that date and time window works for HCRMA, let's plan on meeting at station 960+70 (farm outlet) at that time.

Best Regards,

Anthony Stambaugh
General Manager
Hidalgo County Irrigation District No. 2
P.O. Box 6
San Juan, Texas 78589
(956) 787-1422

From: Ramon Navarro, IV, PE, CFM <ramon.navarro@hcrma.net>

Sent: Tuesday, November 28, 2023 1:51 PM

To: astambaugh@hcid2.org

Cc: 'Sonny Hinojosa' <sh_hcid2@sbcglobal.net>; gp_hcid2@att.net; Pilar Rodriguez, PE <prodriguez@hcrma.net>

Subject: RE: Pending Items (HCID #2)-Toll 365 Project

Please acknowledge availability the week of December 4th, so we may schedule meeting to address each specific item.

From: astambaugh@hcid2.org <astambaugh@hcid2.org>

Sent: Tuesday, November 28, 2023 12:22 PM

To: Pilar Rodriguez, PE <prodriguez@hcrma.net>

Cc: Ramon Navarro, IV, PE, CFM <ramon.navarro@hcrma.net>; 'Sonny Hinojosa' <sh_hcid2@sbcglobal.net>; gp_hcid2@att.net

Subject: Pending Items (HCID #2)-Toll 365 Project

Good afternoon Mr. Rodriguez,

I wanted to provide an update to the HCRMA regarding pending items we have with the Toll 365 project within our District's boundaries.

- After the September 7th, 2023 meeting, our Board provided the clear directive of no additional projects may be worked on until the following were resolved: Namely, Station 960+70, 970+36, 1,000+72, and the Anaya drain, referred to as “aforementioned issues” throughout the rest of this email.
 - Specifically, the following items are pending at each respective station:
 - 960:
 - The well structure was rejected due to improper construction. This structure must be rebuilt.
 - We need visual verification of the correct orientation of all spacers.
 - We need visual verification of the use of Class V casing throughout the ROW.
 - Farm outlet must be replaced with a single piece.
 - In addition, after performing measurements, we found the farm outlet was installed 10.0” higher than natural ground. This restricts our ability to deliver water to this farm and was not constructed per plans.
 - 970:
 - We need visual verification of the use of gravel bedding placed under the casing, as per plans.
 - Farm outlet must be replaced with a single piece.
 - 1,000+72:
 - This station has been resolved.
 - Anaya Drain:
 - There is an inlet south of the previously broken drain pipe, that needs to be cleaned out. It is full of dirt clods from the project area.
 - These issues began on August 4th, 2023. It has been approximately 116 days, and these issues have still not been resolved.

- HCID No. 2 did authorize the installation of casing that has a non-direct impact. The pipe and tie ins will follow after scheduled with the District and after the aforementioned items were resolved and inspected. No work to the trunk line is authorized.
- We have raised concern with no response regarding the proposed use of ASTM C361 pipe referenced in Item 476 on sheet 1195 to be jack and bored, as this pipe is not made for jacking.
 - We also commented on how gravel bedding can be installed when the pipe is proposed to be bored.
- We have also raised concern of the pipe having hydrostatic testing performed on each one prior to shipment from the manufacturer's plant. To date, we have not witnessed any such testing.
 - This concern was exacerbated when we received an email from Rafael Carmona on 11/22/2023 at 16:51, advising HCRMA they were going to start working on this location yesterday (11/27/2023). It is my understanding no work has commenced.
 - However, we did want to stress, we will not authorize the use of this pipe/project, as the pipe has not been hydrostatically tested, and the aforementioned issues have not been resolved.
- Also, when installation occurs, each joint must be field tested using the Charne's Air Loc Joint Tester apparatus, or equal.
- We will not accept any change to our flow line that has been proposed under RFI107.

If/When these aforementioned stations get resolved and inspected, the District will allow one project at a time to be worked on. This is to ensure there are no disturbances to our ability to perform our duties to the patrons of the District.

Best Regards,

Anthony Stambaugh
 General Manager
 Hidalgo County Irrigation District No. 2
 P.O. Box 6
 San Juan, Texas 78589
 (956) 787-1422

The information transmitted by this email is intended only for the person or entity to which it is addressed. This email may contain proprietary, confidential, and/or privileged material. If you received this message in error, do not use or rely upon it. Instead, please inform the sender and then delete it. Thank you.

RE: 0921-02-368 / 365 TOLL ROAD PROJECT

From Malachi Smith <Robert.Smith2@txdot.gov>

Date Mon 2/12/2024 3:32 PM

To Ramon Navarro, IV, PE, CFM <ramon.navarro@hcrma.net>

Cc Eric Ramirez <Eric.Ramirez@txdot.gov>; Brian Biggs <Anthony.Biggs@txdot.gov>; Miranda Unruh <Miranda.Unruh@txdot.gov>; Rudy Palomares <rudy.palomares@txdot.gov>; Daniel Garcia <dgarcia2@txdot.gov>

 1 attachment (505 KB)

DMS-7305.pdf;

Good afternoon Ramon,

All testing, documentation, certification, and acceptance of product is performed by the fabricator's Quality Control (QC) personnel per DMS-7305.11 (see attached). TxDOT verifies the fabricator's plant certifications (ACPA or NPCA) and the required certifications of the QC personnel. TxDOT also performs periodic inspections to ensure the fabricator is meeting the TxDOT Specifications and DMS -7305. TxDOT does not generate or sign any inspection documents for the acceptance of product.

Per DMS 7305.6.2.1, the fabricator must perform two internal audits per year. TxDOT reviews the internal audits and performs a follow-up inspection to ensure compliance with DMS-7305. I believe the two inspections per year that they are referring to, however we are unable to share the information included in these audit reports.

If you have any further questions please contact me at 512-422-8648.

Thank you,

Malachi Smith, EIT

Engineering Assistant III

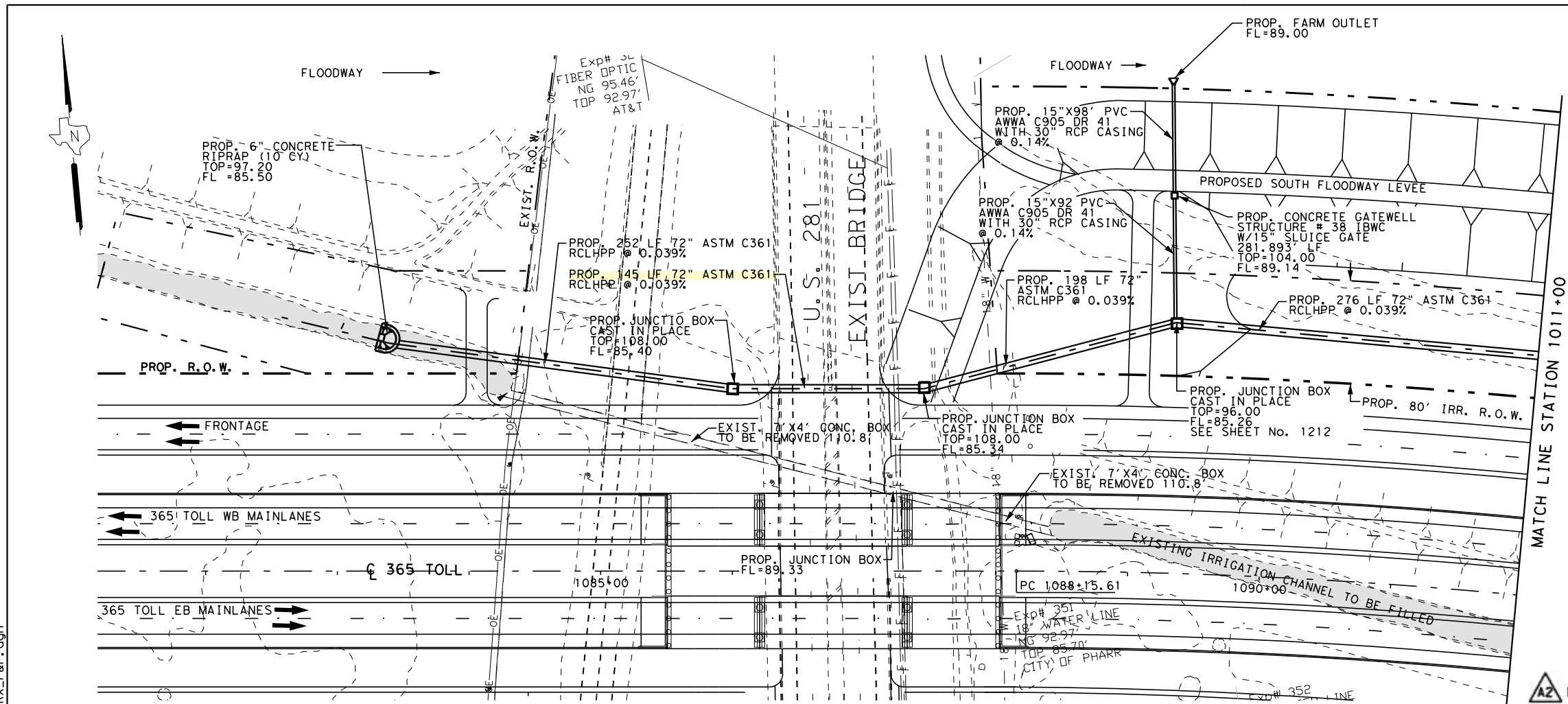
TxDOT Materials and Tests Division

Prefabricated Structural Materials

Robert.Smith2@txdot.gov

(512)422-8648

DATE: 9/25/2017 10:23:40 AM
FILE: c:\projectwise\donnenbaum-hcrma\workdir\enrique.flores\dms49948\07_SH_365_0031_IRRX_P&P.dgn



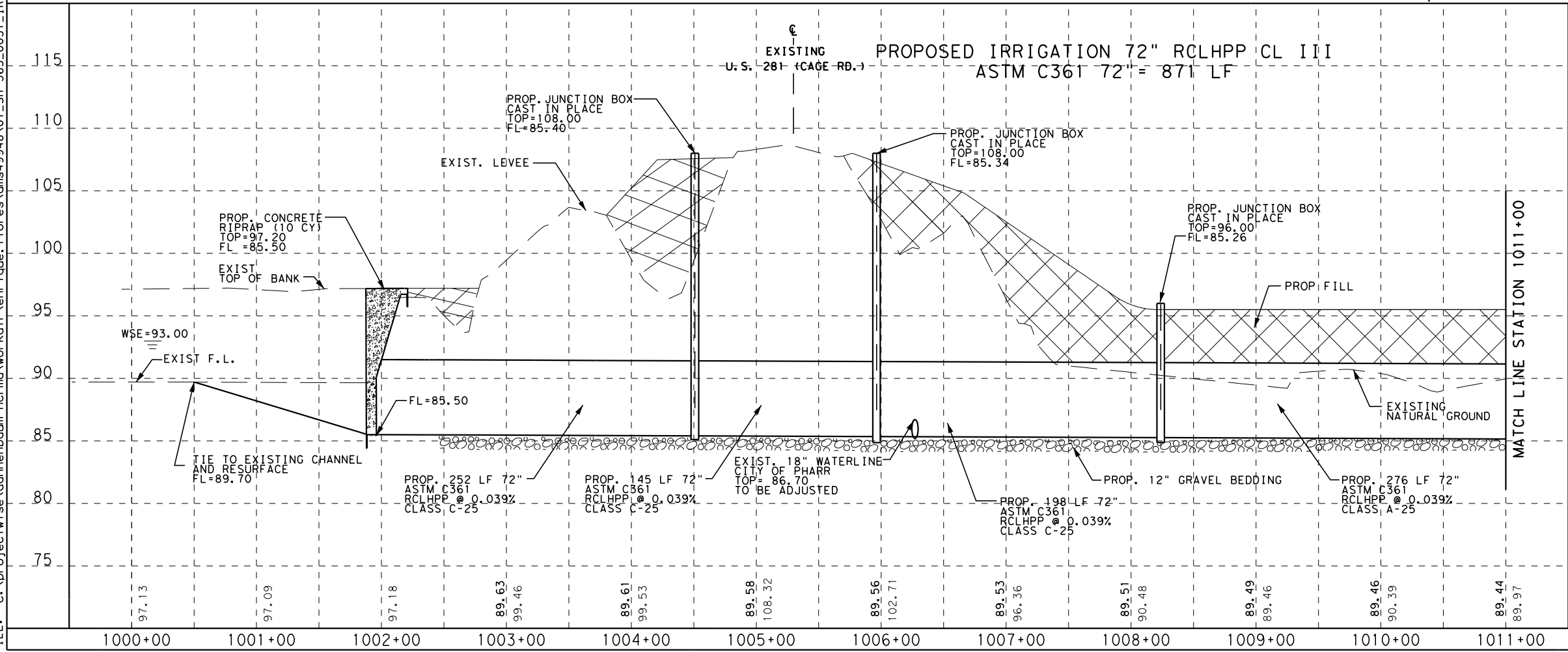
SHEET SUMMARY			
ITEM	DESCRIPTION	UNIT	QUANTITY
400	STRUCTURE EXCAV (SPECIAL) (12" GRAVEL)	CY	228
432	CONCRETE RIP RAP (6IN)	CY	10
465	JUNCTION BOX CAST IN PLACE	EA	3
466	CONCRETE HEADWALL (CH-FW-O) 15 IN	EA	1
HCRMA 08	CONCRETE GATE WELL STRUCTURE	EA	1
4021	RC LOW HEAD PRSSR PIPE 72 in	LF	871
1008	PRSSR IRR (PVC) PIPE 15"	LF	190
464	30" RCP CL III	LF	190
1007	IRR GATE (15") (SLUICE)	EA	1
476	JACK BORE OR TUN PIPE (72") (RC) (CL V)	LF	100
1007	IRR VALVE (12") (FARM OUTLET)	EA	1

LEGEND:

- ⊗ NON-PAY, SUBSIDIARY TO PERTINENT BID ITEMS.
- ★ TO BE REMOVED UNDER ITEM 496. INCLUDES PAYMENT FOR REMOVAL OF ALL APPURTENANCES.
- ⊙ NON-PAY ITEM. FOR CONTRACTORS' INFORMATION ONLY.
- ⊕ THE CONTRACTOR SHALL CONFIRM THAT THE TOP ELEVATION ON THE PROPOSED STANDPIPE IS AT THE SAME ELEVATION AS THE EXISTING STANDPIPE

NOTES:

- THE CONTRACTOR WILL COORDINATE WITH H.C.I.D. NO. 2 48 HOURS PRIOR TO COMMENCING ANY WORK AND PROVIDE SEQUENCE OF CONSTRUCTION STRUCTURES. SONNY HINOJOSA - (956)787-1422. SEE SHEET No. 1224C FOR CONC. COLLAR DETAILS.
- THE CONTRACTOR SHALL CONFIRM THAT CONFLICTS WITH EXISTING UTILITIES HAVE BEEN RESOLVED IN ADVANCE OF CONSTRUCTION. DAMAGES CAUSED BY OR TO EXISTING UTILITIES ARE THE RESPONSIBILITY OF THE CONTRACTOR.
- ALL PVC ELBOWS, AND CONNECTIONS SHALL BE SUBSIDIARY TO PERTINENT BID ITEMS.
- PROPOSED INSTALLATION AND REMOVAL OF BERMS AND PUMPING WATER WILL BE SUBSIDIARY TO ITEM 464.



TEXAS BOARD OF PROFESSIONAL ENGINEERS #: F-1582

PROPOSED IRRIGATION
STRUCTURE
AT U.S. 281 (CAGE BLVD)
STA 1001+11 TO STA 1011+00

SCALE: HOR: 1" = 100' VER: 1" = 10'				SHEET 1 OF 3	
CON	SECT	JOB	HIGHWAY		
0921	02	368	365 TOLL		
DIST	COUNTY			SHEET NO.	
PHR	HIDALGO			1195	

This sheet was not changed as part of the VECP design process and remains in its original IFC state.

From: Ramon Navarro, IV, PE, CFM <ramon.navarro@hcrma.net>

Sent: Thursday, February 8, 2024 6:15 PM

To: Malachi Smith <Robert.Smith2@txdot.gov>

Cc: Eric Ramirez <Eric.Ramirez@txdot.gov>; Brian Biggs <Anthony.Biggs@txdot.gov>; Miranda Unruh <Miranda.Unruh@txdot.gov>; Rudy Palomares <Rudy.Palomares@txdot.gov>; Daniel Garcia <DGARCIA2@txdot.gov>

Subject: CSJ: 0921-02-368 / 365 TOLL ROAD PROJECT

This email originated from outside of the organization. Do not click links or open attachments unless you recognize the sender and know the content is safe.

We have a local water district requesting current QC/QA documents. Our current project specifications exempt requirements; however, they are demanding documents for proof of acceptance (Item 4024-LHPP), as they are and will remain owners of structures. Capa is currently a TxDOT, pre-approved pipe supplier and has provided attached internal QC\QA documentation; however, what is being requested from HCID#2 is formal TxDOT Quality Assurance. Signing entity on documents would be TxDOT not CAPA inspectors. Capa acknowledged that they coordinate with Division for testing approximately twice a year or more. If documentation may not be provided of past reports, when is next scheduled testing date at CAPA?

If I may provide additional clarification, please contact me at 9569608826.

APPRECIATIVELY,

Ramon Navarro IV, P.E., C.F.M.

Chief Construction Engineer,

Hidalgo County Regional Mobility Authority

203 W. Newcombe Avenue, Pharr, TX 78577

OFFICE: (956) 402-4763 | EMAIL: ramon.navarro@hcrma.net

"Don't ever mistake my silence for ignorance, my calmness for acceptance or my kindness for weakness. Compassion and tolerance are not a sign of weakness, but a sign of strength." **Dalai Lama**

Disclaimer: If you are not the intended recipient or have received this e-mail in error, please notify me via return e-mail and telephone at 956-402-4763, and permanently delete and purge the original and any copy thereof. This e-mail, with attachments hereto, if any, is intended only for receipt and use by the addressee(s) named herein, and may contain legally privileged and/or confidential information. Regardless of address or routing, if you are not the intended recipient, then you are hereby notified that any use, copying, reproduction, dissemination, distribution, or transmission of this e-mail, and any attachments hereto, is strictly prohibited. Whereas all reasonable steps have been taken to ensure the accuracy and confidentiality of the information and data submitted herein, the City of Pharr and its employees are not liable if information or data is corrupted or does not reach its intended destination

From: Miranda Unruh <Miranda.Unruh@txdot.gov>

Sent: Wednesday, November 9, 2022 10:58 AM

To: Brian Biggs <Anthony.Biggs@txdot.gov>

Cc: Malachi Smith <Robert.Smith2@txdot.gov>; Eric Ramirez <Eric.Ramirez@txdot.gov>; Ramon Navarro, IV, PE, CFM

<ramon.navarro@hcrma.net>

Subject: BCW Girder PC-2 Forms

Anthony,

Malachi and I received confirmation from Ramon Navarro with HCRMA that Bexar Concrete Works can submit the PC-2 Forms for all girders that have been cast prior to the CFRP wrapping. We do request that BCW note on the PC-2 that wrapping has not been completed for each individual girder that requires it. (Example: * CFRP Wrap not complete) That will allow BCW to receive partial payment for cast girders.

Thanks.

Miranda Unruh
Special Projects Coordinator
Texas Department of Transportation
Materials & Tests Division – Structural Section
9500 N. Lake Creek Pkwy, Bldg. 51
Austin, TX 78717
Cell (737) 704-4457
Fax (512)506-5939
Miranda.Unruh@txdot.gov

 [A Texas Department of Transportation \(TxDOT\) message](#)

The information transmitted by this email is intended only for the person or entity to which it is addressed. This email may contain proprietary, confidential, and/or privileged material. If you received this message in error, do not use or rely upon it. Instead, please inform the sender and then delete it. Thank you.

 [A Texas Department of Transportation \(TxDOT\) message](#)

DMS-7305**Fabrication and Qualification Procedure for Multi-Project Fabrication Plants of Precast Concrete Drainage Structures****Effective Date: May 2022****1. DESCRIPTION**

This Specification governs the fabrication requirements and qualification processes for fabrication plants producing precast concrete drainage structures listed in Article 4., "Precast Concrete Drainage Structures," of this Specification for Department projects. Precast concrete drainage units must meet the requirements of this Specification and the pertinent Items of the Department's *Standard Specifications for Construction and Maintenance of Highways, Streets, and Bridges*.

2. DEFINITIONS

The following definitions apply to this Specification.

- **Cosmetic Damage.** Any damage with a maximum depth of 3/8 in.
- **Diameter.** The internal diameter of round pipe. For arch and elliptical pipe reference Item 464, "Reinforced Concrete Pipe," to determine the design size using the equivalent diameter.
- **Design Strength.** The minimum concrete compressive strength at 28 days.
- **Dry Cast Concrete.** Fresh concrete with a relative zero slump.
- **Engineer.** The Chief Engineer of the Department or the authorized representative of the Chief Engineer.
- **Formed Precast Units.** Precast drainage units fabricated with wet cast (conventional or SCC) concrete.
- **Machine-Made Precast Units.** Precast drainage units fabricated with dry cast concrete.
- **Multi-Project Fabrication Plant.** A facility at an offsite location fabricating precast members. This definition also applies to single-contract offsite facilities.
- **Precast Units.** Precast drainage units fabricated by a process utilizing either dry or wet cast concrete.
- **Self-Consolidating Concrete (SCC).** Wet cast concrete meeting the slump flow requirements of Item 421, "Hydraulic Cement Concrete," is highly workable, flows through densely reinforced or complex structural elements under its own weight, and adequately fill voids without segregation or excessive bleeding without the need for vibration.
- **Temperature Probe.** Thermocouple for measuring concrete temperature or air temperature.
- **Temperature Recording Device.** Data logger for recording temperatures from the temperature probes.
- **Wet Cast Concrete.** Fresh concrete meeting the placement slump or slump flow requirements of Item 421.

3. MATERIAL PRODUCER LIST

For the precast concrete drainage structures listed under Article 4., "Precast Concrete Drainage Structures," the **Materials and Tests Division (MTD)** maintains the MPLs of fabrication plants conforming to the requirements of this Specification. Precast drainage structures produced by fabricators appearing on the applicable MPL require no further Department inspection and testing unless deemed necessary by the Department project engineer or **MTD**. Precast concrete drainage structures used on Department projects must be produced by fabrication plants listed on the applicable MPL.

4. PRECAST CONCRETE DRAINAGE STRUCTURES

Precast concrete drainage structures include:

- Concrete Box Culverts (formed precast and machine-made precast) referenced in Item 462, "Concrete Box Culverts and Drains,"
- Junction Boxes, Manholes, and Inlets (formed precast and machine-made precast) referenced in Item 465, "Junction Boxes, Manholes, and Inlets," and
- Reinforced Concrete Pipe (formed precast and machine-made precast) referenced in Item 464.

5. BIDDERS' AND SUPPLIERS' REQUIREMENTS

Use of pre-qualified product does not relieve the Contractor of the responsibility to provide product that meets this Specification. The Department may inspect or test material at any time and reject any material that does not meet the Specifications.

6. PRE-QUALIFICATION PROCEDURE

- 6.1. **Pre-Qualification Request.** Submit a request for evaluation under DMS-7305 to DMS_Prequal@txdot.gov.

Include the following information in the request:

- company and fabrication plant name;
- physical and mailing addresses;
- contact person, titles, phone number, and email address;
- list of precast products (box culvert, RC pipe, junction boxes, manholes, or inlets);
- written plant QC and Production Procedures for each production method (i.e. formed precast or machine-made precast, SCC, vibratory, centrifugal, etc.) for each product as defined in Article 4., "Precast Concrete Drainage Structures";
- list of all on-site QC personnel with copies of current QC certifications and a detailed description of their QC related experience, as required by Article 12., "Quality Control Personnel and Testing";
- list of welding shops fabricating the supplied welded steel grates and frames (if applicable);
- the attained plant certifications, ACPA QCast Plant Certification (Texas Version) or NPCA Plant Certification (Texas Version), for box culvert and RC pipe fabrication plants and for precast junction box, manhole, and inlet fabrication plants. In addition to being certified, fabrication plants must receive an overall audit score of at least an 80 on the most recent audit; and
- copy of the most recent ACPA or NPCA audit report, with the Texas addendum included, and written response to any specific deficiencies noted in the ACPA or NPCA audit report and the Texas addendum. The Engineer must approve any proposed deviations from the Specifications required in the ACPA or NPCA plant certification program.

- 6.2. **Evaluation.** MTD will review the qualification request documentation. If the qualification request includes the required information, MTD will perform an initial Department-directed plant audit for each product type to ensure compliance with this Specification. The Department will evaluate all fabrication plants for adequate equipment, processes, production methods, organization, experience, knowledge, and competent personnel to produce Specification compliant product.

- 6.2.1. **Qualification.** If the required submittals and audits verify compliance with this Specification, the Department will list the fabrication plant on the applicable MPL. This approval is limited to the type of product and production method submitted in accordance with Section 6.1., "Pre-qualification Procedure." Discrepancies identified in the audit must be adequately addressed in a manner acceptable to the Department before being placed on the MPL. MTD reserves the right to perform additional audits (announced or unannounced) at its discretion for the plant to remain on the MPL as an approved fabrication plant of precast concrete drainage structures.

Fabrication plants listed on the MPL must annually attain and immediately submit the following to maintain approval status:

- current ACPA or NPCA Plant Certification (Texas Version) for the applicable precast concrete drainage structures. In addition to being certified, fabrication plants must receive an overall audit score of at least an 80 on the most recent audit;
- copy of the most recent ACPA or NPCA audit report, with the Texas addendum included, and written responses to any deficiencies noted in the ACPA or NPCA audit report and to any failed items in the Texas addendum;
- copy of any other correspondence relating to the plant's ACPA or NPCA Plant Certification status;
- successful completion of any Department-directed audits and any follow-up plant audits by adequately implementing corrective actions for all deficiencies; and
- copies of current QC personnel certifications for on-site QC personnel when changes occur.

Fabrication plants must also perform the following to maintain approval status:

- maintain the laboratory, equipment, and batch plant in adequate condition to function properly for the intended use; and
- perform two internal compliance audits per year (summer and winter) using Department furnished audit checklist. Compliance audits must be completed within 14 days from the start of an audit and performed by qualified QC personnel approved by the Department. Consecutive internal audits must be performed at intervals of 5 to 7 mo. Submit audit findings and corrective actions for each deficiency which must be implemented within 15 days from the completion of the audit.

Failure to promptly comply with the above may result in disqualification, which includes removal from the MPL.

- 6.2.2. **Failure.** Fabrication plants not qualified under this Specification may not furnish precast concrete drainage structures for use on Department projects and must show evidence of correction of all deficiencies before reconsideration for qualification.
- 6.3. **Random Inspection and Testing.** The Department reserves the right to inspect, sample, test, conduct random audits and review documentation at any time to ensure compliance with this Specification. Provide facilities and access to allow for inspection of materials, the process of fabrication, and the finished precast concrete drainage structures. Coordinate the scheduling of any inspections the Department requests to perform.
- 6.4. **Disqualification.** Any fabricator failing to comply with the requirements of this Specification is subject to disqualification, which includes removal from the MPL. A disqualified fabricator is prohibited from furnishing product to Department projects and may not bid any work let during the disqualification period. The disqualification period will be a minimum of 30 days or as determined by MTD.

Causes for disqualification and removal from the MPL may include, but are not limited to:

- repetitive poor quality and workmanship;
- falsification of or incomplete documentation;
- lack of certified or qualified QC personnel;
- not following approved QC and production procedures; or
- certifying or furnishing product not meeting specifications.

If a fabricator has been disqualified, all previously produced products will be subject to review and possible removal from assigned projects. If the Department disqualifies a fabricator, the Department may permit subcontracting remaining product quantities for active projects to another Department-approved fabrication plant for the specific product.

- 6.5. **Re-Qualification.** Once the disqualification period established by MTD has elapsed, the fabricator may begin the re-qualification process by providing the Department with an implemented reconciliation plan including, at a minimum:
- evidence of corrected deficiencies and corrective measures to prevent reoccurrences;
 - passing an additional ACPA or NPCA audit for the applicable precast concrete drainage structures, and Department-directed audit; and
 - ensuring compliance with all requirements in this Specification.
- The disqualified fabricator will bear all costs associated with re-qualification.
- 6.6. **Inactive Fabricator.** If a fabricator does not furnish any precast concrete drainage structures to Department projects for a period of two years, MTD may remove the fabricator from the MPL due to inactivity.
- MTD will consider future qualification after the fabricator is awarded a Contract to furnish precast concrete drainage structures to a Department project and complies with this Specification.

7. MATERIALS

- 7.1. **Aggregate.** Maintain aggregates above saturated surface dry condition when using mixer moisture probes. Sprinkle or shade aggregates as needed.
- 7.2. **Concrete.** Provide concrete and component materials in accordance with Item 421, except as otherwise noted in this Specification. Furnish Class H concrete with the following stipulations:
- Use one of the mix design Options 1-8 meeting the requirements in Section 421.4.2.6., "Mix Design Options."
 - Instead of Options 1-8, when the cementitious material content does not exceed 520 lb. per cubic yard, any fly ash listed in the MPL may be used at a cement replacement of 20% to 50%.
 - Use coarse aggregate grades 3-8 for formed precast units.
 - Aggregate gradation requirements will not apply for machine-made precast units.
 - Proportion the concrete materials with a water to cementitious (w/c) ratio between 0.28 and 0.45 and with an allowable variation during production of ± 0.02 from the approved mix design.
- Provide concrete meeting the approved mix design.
- When sulfate resistant concrete (SRC) is required, furnish concrete meeting the Class "X" (SRC) requirements in accordance with Table 8, "Concrete Classes," of Item 421.
- Aggregate hoppers or storage bins for fine and coarse aggregate must be equipped with electric moisture probes for SCC unless approved.
- 7.2.1. **Mixing of Concrete.** Volumetric mixers may be permitted if approved. Do not use volumetric mixers for SCC. Do not place discharged concrete back into the concrete mixer.
- 7.2.1.1. **Formed Precast Units.** Mix concrete for a period of 1 min. for 1 cu. yd. and 15 sec. for each additional cubic yards of rated capacity of the mixer. Count the mixing time from the time all materials are in the drum. Increase mixing time, if necessary, to achieve a uniform mix.
- 7.2.1.2. **Machine-Made Precast Units.** Mix concrete for a period of 35 sec. for 1 cu. yd. and 15 sec. for each additional cubic yard of rated capacity of the mixer. Count the mixing time from the time all materials are in the drum. Increase mixing time, if necessary, to achieve a uniform mix.
- 7.2.2. **Concrete Trial Batches.** Provide a work plan, preliminary, and final trial batch data for proposed concrete mix designs per [Tex-703-I](#) for precast units.

Submit Form PC-342-R for proposed concrete mix designs for all precast units before use.

- 7.3. **Reinforcing Steel.** Provide and store reinforcing steel in accordance with Item 440, "Reinforcement for Concrete." Base metal rod to be cold-drawn for helical RC pipe cage production must comply with Section 6.1.1., "Buy America," requirements but does not need to be furnished by a Department-approved reinforcing steel mill.
- 7.4. **Hydraulic Cement Concrete Curing Materials.** Furnish concrete curing compounds in accordance with [DMS-4650](#), "Hydraulic Cement Concrete Curing Materials and Evaporation Retardants."

8. FABRICATION

Provide precast drainage structures conforming to the design shown on the plans and to the following, except as otherwise noted in this Specification:

- ASTM C 76 or ASTM C 655, unless otherwise shown on the plans, for circular pipe,
- ASTM C 478 for circular reinforced manhole structures,
- ASTM C 506 for arch pipe,
- ASTM C 507 for horizontal elliptical pipe, and
- ASTM C 1577, for box culverts, unless otherwise shown on the plans.

Maintain on file Department-approved shop drawings for precast drainage structures when required.

8.1. Equipment.

- 8.1.1. **Batch Plant.** Provide concrete plants and mixing equipment, hauling equipment, and testing equipment in accordance with Article 421.3., "Equipment." Truck mixers are not permitted for machine-made precast units. Volumetric mixers must not be permitted unless approved. Check batching accuracy of volumetric water batching devices in conformance with NRMCA guidelines.

- 8.1.2. **Forms.** Maintain forms free from dents, grease, or other foreign materials that may affect the appearance of the member, and clean forms thoroughly before each casting operation and immediately before applying a form-release agent. Provide external forms complying with the requirements of Section 424.4.2.1.1., "External Forms."

- 8.1.3. **Temperature Recording Equipment.** Concrete temperature probes, curing enclosure air temperature probes, and temperature recording devices referenced in Item 424, "Precast Concrete Structural Members (Fabrication)," must meet the following:

- temperature recording devices must be able to generate a graphic displaying the temperature profile of the entire curing period at intervals not to exceed 15 min.; and
- calibrate temperature recording devices at least once per year, or more frequently, if recommended by the manufacturer. Temperature recording devices must be accurate to within $\pm 2^{\circ}\text{F}$ in the range of 0 - 200°F. The graph generated by the temperature recording device must be readable to within 5°F.

Provide a minimum of one standby temperature recording device in the plant for emergency use.

- 8.2. **Placing Reinforcing Steel.** Place reinforcing steel in accordance with the plans, Item 440, and the required ASTM standard, if applicable.

- 8.3. **Concrete Placement.** Place concrete only when its temperature at time of placement is a minimum of 45°F and a maximum 95°F.

- 8.3.1. **Consolidation of Concrete.** Consolidate concrete in accordance with Section 424.4.2.5.3., "Consolidation of Concrete," except that concrete for machine-made RC pipe may be consolidated by other approved compaction methods. Do not consolidate SCC with vibration.

8.3.2. Construction Joints. Make construction joints in accordance with Section 420.4.7.7., "Construction Joints."

- 8.4. **Curing of Concrete.** Cure concrete to promote early cement hydration by providing adequate moisture on exposed surfaces and by maintaining the required concrete temperature or curing enclosure air temperature at the concrete surface. Begin curing after form removal and maintain adequate moisture on the surfaces to prevent shrinkage that may cause cracking. Provide interim curing, when conditions warrant, that will not damage the concrete surface. Make immediate corrections to provide effective curing when shrinkage cracks on the surface indicate poor curing practices.

Cure precast units in accordance with Section 424.4.2.7., "Curing of Concrete," with the following stipulations:

- ambient temperature at the concrete surface may be monitored instead of the internal concrete temperature in accordance with Table 2, "Temperature Probe Requirements," of Item 424. Maintain enclosure or concrete temperature at or above 45°F during the curing period;
- cure machine-made precast units using steam, water, membrane curing compound or a combination thereof. Other methods must be approved;
- for machine-made precast units cured with steam or water, cure for a sufficient duration to prevent plastic shrinkage cracks and so the concrete will develop the specified compressive strength at 28 days or less, or the specified D-load will be obtained, whichever is applicable;
- for machine-made precast units cured using a membrane curing compound, leave the membrane intact until all concrete strength requirements are met or the specified D-load is obtained, whichever is applicable;
- when steam curing precast units, use a minimum of one temperature recording device per day per the following:
 - every 250-pipe sections, or fraction thereof, and
 - every 30-sections, or fraction thereof, for all other precast units; and
- when accelerated curing is used, enclosure temperature must be raised uniformly at a maximum rate of 40°F per hour.

Provide curing enclosures with unique identification numbers that do not allow steam to escape. When probes are not placed in all steam enclosures each day, rotate the placement of probes so each enclosure is monitored at least once every two weeks.

- 8.5. **Workmanship.** Repair damaged precast units in conformance with the applicable Annex of this Specification, except for the following:
- cosmetic damage as defined in Article 1., "Definitions," and
 - membrane curing compounds meeting the requirements of [DMS-4650](#) may be used instead of moist curing for repairs.

Before certification of product, remove:

- concrete, paste, dirt, oil, or other bond-breaking substances from exposed reinforcing steel; and
- laitance, dirt, oil, or other bond-breaking substances from concrete surfaces to be in contact with cast-in-place concrete.

- 8.6. **Storage of Precast Units.** Store precast units on a level surface and in a manner preventing damage to the members. Do not place any load on box culverts until design strength is reached and curing is completed.

- 8.7. **Shipping.**

- 8.7.1. **Machine-Made Precast RC Pipe.** Do not ship machine-made precast pipe fewer than three days after casting unless a representative three-edge bearing (3EB) test is performed before shipping confirming D-Load strength compliance. Concrete core or cylinder compression testing may be performed instead of 3EB testing for 66-in. diameter and larger machine-made precast pipe.

- 8.7.2. **All Other Precast Units.** Ship precast units after design strength, curing, and all other requirements have been met. Test for design strength in accordance with Table 1, "Contractor Minimum Materials QC Sampling and Testing Frequencies."
- 8.8. **Marking.** Mark each precast unit with the following by indenting, or painting with waterproof paint:
- name or trademark of fabricator and plant location,
 - ASTM designation and product designation (when applicable),
 - date of manufacture,
 - product size,
 - designation "TX" for precast units fabricated under DMS-7305,
 - fabricator's designated approval stamp for each approved unit, and
 - designation "SR" meeting sulfate-resistant concrete plan requirements (when applicable).
- Note: Place the "TX" designation the day after casting or immediately after form removal. All product markings for precast units must be legible until the time of shipment.
- 8.8.1. **Precast Box Culverts Marking.** Mark box culverts with the following in addition to the product markings specified in Section 8.8., "Marking":
- provide a unique identification number for each unit during fabrication,
 - minimum and maximum fill heights,
 - match mark for proper installation, when required per Section 8.11.3., "Precast Box Culverts,"
 - boxes to be used for jacking and boring (when applicable), and
 - for box culverts without lifting holes, mark one end of each box section on the inside and outside walls to indicate the top and bottom as it will be installed.
- 8.8.2. **RC Pipe Marking.** Mark RC pipe with the following in addition to the product markings specified in Section 8.8., "Marking":
- class or D-Load of pipe, and
 - RC pipe to be used for jacking and boring (when applicable).
- Clearly mark one end of each section during the process of manufacture or immediately thereafter for pipe with elliptical reinforcement. Mark the pipe on the inside and outside of opposite walls to show the location of the top or bottom of the pipe as it should be installed unless the external shape of the pipe clearly indicates the correct position of the top and bottom.
- 8.9. **Lifting Holes.**
- 8.9.1. **Precast Box Culverts.** Provide no more than four lifting holes in each section. Lifting holes may be cast, cut into fresh concrete after form removal, or drilled. Provide lifting holes of sufficient size for adequate lifting devices based on the size and weight of the box section. Do not use lifting holes larger than 3 in. in diameter. Do not displace more than 5 in. in any direction of reinforcement per layer for lifting holes. Repairs must be per the applicable Annex of this Specification.
- 8.9.2. **RC Pipe.** Do not place more than two holes for lifting and placing in each section of precast pipe. Cast, cut, or drill the lifting holes in the wall of the pipe. The maximum hole diameter is 3 in. at the inside of the pipe wall and 4 in. at the outside surface. Do not displace more than 5 in. in any direction of reinforcement per layer for lifting holes. Repairs must be per the applicable Annex of this Specification.
- 8.10. **Physical Testing Requirements.** For physical test requirements, refer to Table 1, supplemented by the following:
- 8.10.1. **All Precast Units with the Exception of Machine-Made RC Pipe.** Concrete strength may be determined with cores when 28-day concrete cylinders fail to achieve the minimum required compressive design

strength. Obtain a core from three different sections selected at random from the lot represented by the failed cylinders. Cores must be obtained, prepared, and tested for compressive strength in accordance with ASTM C 497. For material acceptance, the average of the three cores must obtain 100% of the required compressive design strength as specified in the Contract. Failed test results from compressive strength cores will be cause for rejection of the lot.

- 8.10.2. **Machine-Made RC Pipe.** Test for the load to produce a 0.01-in. crack or 15% in excess of the required D-Load, whichever is less. Three-edge bearing test specimens meeting the requirements of this Specification, including Annex A1, "Round Sections," may be certified for use.

- 8.10.2.1. **Machine-Made RC Pipe 66 in. Diameter and Larger.** As an alternate to the three-edge bearing test, concrete pipe 66 in. in diameter and larger may be accepted on the basis of compressive strength cylinders or cores cut from the wall of the pipe. Plug and seal cores holes in the pipe wall after testing. For acceptance, cylinder and core test results must obtain 100% of the required compressive design strength as specified in the Contract within 28 days of fabrication.

If the compressive strength of the cylinders or the compressive strength of the original cores do not meet 100% of the design strength by an age of 28 days, obtain a core from three different sections selected at random from the lot represented by the original failed test specimens. Cores must be obtained, prepared, and tested for compressive strength in accordance with ASTM C 497. For material acceptance, the average of the three cores must obtain 100% of the required compressive design strength as specified in the Contract. Failed test results from compressive strength cores will be cause for rejection of the lot.

- 8.11. **Tolerances.**

- 8.11.1. **Precast Circular Manholes.** Ensure circular manholes meet the following:

- permissible variations listed in ASTM C 478, and
- for wall thicknesses in excess of plan requirements, proper jointing is not affected.

- 8.11.2. **Precast Junction Boxes and Inlets.** Ensure junction boxes and inlets meet the following:

- dimensional, squareness, slab and wall thickness tolerances listed ASTM C 913 with the following stipulations:
 - the maximum tolerance for dimensions over 20-ft. is $\pm 1/2$ -in.,
 - the maximum squareness tolerance for measured lengths over 20-ft. is $\pm 3/4$ -in., and
- for slab and wall thicknesses in excess of plan requirements, proper jointing is not affected.

- 8.11.3. **Precast Box Culverts.** Ensure box culvert sections meet the following:

- permissible variations listed in ASTM C 1577,
- for slab and wall thicknesses in excess of plan requirements, proper jointing is not affected, and
- the sides of the section at each end must not vary from being perpendicular to the top and bottom by more than 1/2 in. when measured diagonally between opposite interior corners. Deviations from this tolerance will be acceptable if the sections can be fitted at the plant and joint openings at any point do not exceed 1 in. Use match marks for proper installation on sections accepted in this manner.

- 8.11.3.1. **Boxes for Jacking Operations.** For boxes to be used for jacking operations (as defined in Item 476, "Jacking, Boring, and Tunneling Pipe or Boxes,") meet the following additional requirements:

- box ends must be square with no point deviating more than 3/8 in. from any plane placed on the end of the box perpendicular to the box sides, and
- slab and wall thickness must not be less than specified on the plans and must not exceed the specified thickness by more than 1/2 in.

- 8.11.4. **RC Pipe.** Ensure RC pipe meets the permissible variations of the applicable ASTM specification.

9. QUALITY CONTROL AND PRODUCTION PROCEDURES

Maintain and electronically submit for approval QC and production procedures, including the following, at minimum, to ensure product compliance with Department Specifications. Quality Control and Production Procedures must include enough detail to provide instructions to plant personnel on how and when to perform duties.

- work plan, trial batch, and pilot test data for proposed concrete mix designs per [Tex-703-I](#), (except slump, air content, unit weight, yield, and initial set of concrete does not apply for dry cast concrete);
- maintaining and cleaning forms;
- sampling aggregate for free moisture and absorption testing;
- storing reinforcing steel;
- verifying correct reinforcing steel cages are constructed and provided for each unit (reference Article 440.3., "Construction," for formed precast junction boxes and inlets and ASTM C 478 for precast manhole circular sections); for machine-made precast units only, instead of verifying reinforcing steel cages for each unit, provide a frequency meeting the minimum requirements in Section 10.2., "Precast Concrete Box Culverts and RC Pipe";
- procedures for verifying steel cage designs meet the appropriate ASTM and Department Specifications for box culverts and RC pipe before fabrication;
- delivery of concrete;
- properly positioning and maintaining reinforcing steel and embedment placement before and during casting;
- placing and consolidation of concrete for precast units;
- maintaining concrete placement temperatures within specified limits;
- finishing unformed concrete surfaces;
- protecting concrete from inclement weather during placement;
- procedures for minimizing damage, including repetitive damage to finished product during stripping, handling, and transporting;
- curing concrete for precast units;
- procedures for concrete fittings and transitions. Provide procedures for fabrication and QC inspection (pre-pour and post-pour), that include, at a minimum, reinforcement placement, welding reinforcing steel, concrete placement, consolidation, and curing;
- storing precast sections in accordance with Section 8.6., "Storage of Precast Units," and in a manner that prevents damage to the members;
- inspecting finished product, including dimensions, to ensure compliance with the Contract, approved shop drawings (if applicable), and standard drawings. Dimensional checks must be performed on each formed precast junction box, manhole and inlet, and at the minimum frequency specified in Article
- 10, "Documentation," for all other precast units. Provide procedures for visual post pour inspection of each precast unit before performing any repairs including repairs to cosmetic damage;
- minimizing repetitive fabrication issues or damage to units (such as concrete grout leakage, open texture, honeycombing, and spalling);
- identifying and marking deficient units (repairable and unacceptable units), and isolating unacceptable units (including removal of the fabricator's approval stamp); and
- verifying product is marked with fabricator's approval stamp, is properly identified, and is not damaged or in need of repair at time of shipping.

Submit updated procedures for approval before use when requesting changes to the approved Quality Control and Production Procedures. Include date of revision and highlight changes for each submittal.

10. DOCUMENTATION

At a minimum, maintain the following documentation and make available to the Department. Submit electronically when requested:

10.1. General. The following documentation is required to be maintained on file by precast concrete drainage structure fabrication plants:

- personnel certifications (retain until superseded);
- appropriate special provisions and general notes (project specific or statewide) and approved shop drawings (when required) or project specific Contract plans (retain until final acceptance of project);
- certifications and shipping invoices for concrete component materials (documentation must have the pertinent material information as listed on the Department's MPL) (minimum 1 yr. retention);
- certifications and shipping invoices for each lot number of repair materials (documentation must have the pertinent material information as listed on the Department's MPL) (minimum 1 yr. retention);
- mill test reports and shipping invoices for reinforcing steel. Reinforcing steel must be produced by Department approved mills listed on the Department's MPL (minimum 1 yr. retention);
- aggregate test results for materials sampled at the fabrication plant or ready mix plant for formed precast units (minimum 6 mo. retention);
- moisture correlation test results for aggregate bin moisture probes (minimum 6 mo. retention);
- completed Department Form PC-8, "Precast Concrete Worksheet," (minimum 7 yr. retention);
- current concrete mix designs and accompanying preliminary trial batches and final trial batch test data using Department Form D9-PC-342R) (minimum 7 yr. retention after final use);
- certifications for approved concrete repair materials (minimum 1 yr. retention);
- current NRMCA certification or current inspection report in accordance with Section 421.3.1., "Concrete Plants and Mixing Equipment," (retain until superseded);
- for volumetric mixers, if approved, test data for [Tex-472-A](#) and a certification of compliance with ASTM C 685 (retain until superseded);
- current calibration records for concrete plant scales (reference Section 421.3.1.1., "Scales,") (retain until superseded);
- plant laboratory qualification documentation, as required in the applicable sections of [Tex-237-F](#) and [Tex-498-A](#) (retain until superseded);
- Department Form 596, "Concrete Batch Ticket," or equivalent (minimum 3 mo. retention);
- current inspection report for truck mixers and agitators, when used (reference Section 421.3.1. for precast formed units)(retain until superseded);
- current calibration records for compression testing machines and other equipment (retain until superseded);
- current list of certified QC personnel including copies of their certifications as required in this Specification; and
- internal audit findings and corrective actions (minimum 1 yr. retention).

10.2. Precast Concrete Box Culverts and RC Pipe. The following additional documents must be maintained on file by fabrication plants of precast box culverts and RC pipe:

- shop drawings for box culverts, when required, approved by the Department per Article 8, "Fabrication," (minimum 2 yr. retention or until superseded);
- mill test reports and shipping invoices received for reinforcing steel rod to be subsequently cold-drawn during helical RC pipe cage production (minimum 2 yr. retention);
- all required test results (including tensile strength, bend, and reduction of area) for circumferential wire reinforcement cold-drawn during helical RC pipe cage production at the fabricator's facility (minimum two year retention). Test circumferential wire in the cold-drawn state;

- completed reinforcing steel cage inspection worksheets for RC pipe for each pipe size, class, and wall design at the start of each production run and after every 6 hr. of production thereafter. If discrepancies exist, increase minimum cages inspected to four or more until discrepancies are resolved (minimum 2 yr. retention);
- completed reinforcing steel inspection worksheets for box culverts for each size, and fill heights at the start of each production run and after every 6 hr. of production thereafter. If discrepancies exist, increase minimum cages inspected to four or more until discrepancies are resolved (minimum 2 yr. retention);
- completed post-pour inspection worksheets for RC pipe. Measure and document post-pour dimensional inspections for a minimum two pipe sections per size, class, wall design, and cast date. If discrepancies exist, increase minimum sections inspected to four or more until discrepancies are resolved (minimum 2 yr. retention). Provide visual post pour inspection of all RC pipe before performing any repairs including repairs to cosmetic damage;
- completed post-pour inspection worksheets for box culverts. Measure and document post-pour dimensional inspections for a minimum two box sections, or per the applicable plant certification requirement, whichever is greater, per size, fill heights, and cast date. If discrepancies exist, increase the minimum sections to four or more until discrepancies are resolved (minimum 2 yr. retention). Provide visual post pour inspection of all boxes before performing any repairs including repairs to cosmetic damage; and
- welded splice test results for RC pipe steel reinforcement (minimum 2 yr. retention).

10.3.

Precast Concrete Junction Boxes, Manholes, and Inlets. The following additional documents must be maintained on file, with copies furnished to the project site, by fabrication plants of precast junction boxes, manholes, and inlets:

- mill test reports (for steel material) and certifications (for cast iron material) for frames, grates, rings, and covers. Maintain copies of these documents with a completed FORM-D-9-USA-1 (Department Form 1818) "Material Statement," on file (retain until final acceptance of project);
- galvanizing certifications for galvanized steel and iron items. Maintain copies of these certifications on file (retain until final acceptance of project); and
- manufacturer's certification stating frame, grate, ring, and cover castings meet the proof-load testing requirements of AASHTO M 306 for traffic service castings (reference Section 471.2.3., "Documentation,") (retain until final acceptance of project).

11. CERTIFICATION OF PRODUCT

QC personnel must, at a minimum, within 14 days of the product cast date:

- verify product conformance with the shop drawings (when required) and all Contract requirements;
- verify inspections and repairs are complete. Place an identifying mark on products indicating the inspections and repairs are complete;
- mark completed and approved precast concrete products by placing the fabricator's approval stamp on each member within 14 days of product cast date or when required concrete compressive strength has been met. Place this marking on precast products after all specification requirements have been met. The Department-approved stamp must be legible and listed on the MPL before use; and
- mark unacceptable precast concrete products with a permanent mark, acceptable to the Engineer, near the product identification marks, or remove the "TX" designation from the product marking.

Note: The identification requirements for unacceptable precast units also apply to product damaged in the storage yard.

Sign Department Form PC-8 certifying material, inspections, documentation, repairs (if applicable), and final product acceptance were properly performed and inspected immediately after all specification requirements have been met including concrete compressive strength.

12. QUALITY CONTROL PERSONNEL AND TESTING

Provide an adequate number of qualified personnel to ensure all fabrication operations meet Department specifications and to perform all required inspections in Section 12.5.1., “Inspection,” and the testing in Table 1. QC personnel must be on-site and independent of production personnel, as determined by the Engineer. QC personnel must be proficient in utilizing the applicable specifications and test methods and in verifying compliance with the QC and production procedures referenced in Article 9, “Quality Control and Production Procedures.” Personnel performing these duties are subject to Department approval. Immediately contact MTD when Quality Control personnel changes occur.

12.1. **Quality Control Supervisor (On-Site).** QC Supervisors must be on-site working primarily in the production areas directly overseeing the QC technicians and performing routine inspection during production operations. QC Supervisors must have the authority and management’s support to make general inspection-related decisions. QC Supervisors must maintain the certifications required for the specific drainage structures produced, and fabrication process used, as stated below:

12.1.1. **Box Culverts and RC Pipe Fabrication Plants.**

- ACI Concrete Field Testing Technician – Grade I;*
- ACI Aggregate Testing Technician Level 1; *
- ACI Concrete Strength Testing Technician; and
- PCI Level I Quality Control Technician, or NPCA Production and Quality School Level II QA/QC certification, or ACPA Quality School certification. (Re-certification required every 5 yr.)

(*) Not required for fabricators of machine-made precast box culverts and RC pipe.

12.1.2. **Junction Boxes, Manhole, and Inlet Fabrication Plants.**

- ACI Concrete Field Testing Technician – Grade I;*
- ACI Aggregate Testing Technician Level 1;*
- ACI Concrete Strength Testing Technician; and
- PCI Level I Quality Control Technician, or NPCA Production and Quality School Level II QA/QC, or ACPA Quality School certification; (Re-certification required every 5 yr.)

(*) Not required for fabricators of machine-made precast junction boxes, manholes, and inlets.

12.2. **Quality Control Technicians (On-Site).** QC Technicians must maintain the certifications required for the specific drainage structures produced, and fabrication process used, as stated below:

12.2.1. **Box Culverts and RC Pipe Fabrication Plants.**

- ACI Concrete Field Testing Technician – Grade I, for QC personnel performing fresh concrete testing per Table 11;
- ACI Aggregate Testing Technician Level 1, for QC personnel performing aggregate testing per Table 12;
- ACI Concrete Strength Testing Technician for QC personnel performing compressive strength tests per [Tex-418-A](#) (ASTM C39);
- PCI Level I Quality Control Technician, or NPCA Production and Quality School Level II QA/QC, or ACPA Quality School certification required for QC personnel performing the required inspections of box culverts; and
- PCI Level I Quality Control Technician, or NPCA Production and Quality School Level I, or ACPA Quality School certification for QC personnel performing three-edge bearing tests and the required inspections of RC pipe. (Re-certification required every 5 yr.)

¹For fresh dry cast concrete temperature testing, QC personnel with current PCI Level I Quality Control Technician, or ACPA Quality School, or NPCA Production and Quality School Level I certification may perform this test.

²For aggregate moisture content testing, Fabricator personnel qualified by the QC Supervisor for this particular test may perform it.

12.2.2.

Junction Boxes, Manholes, and Inlets Fabrication Plants.

- ACI Concrete Field Testing Technician – Grade I for QC personnel performing fresh concrete testing per Table 1¹;
- ACI Aggregate Testing Technician Level 1 for QC personnel performing aggregate testing per Table 1²;
- ACI Concrete Strength Testing Technician for QC personnel performing compressive strength tests per [Tex-418-A](#) (ASTM C 39); and
- PCI Level I Quality Control Technician, or NPCA Production and Quality School Level I, or ACPA Quality School certification for QC personnel performing the required inspections. (Re-certification required every 5 yr.)

¹For fresh dry cast concrete temperature testing; QC personnel with current PCI Level I Quality Control Technician, or ACPA Quality School, or NPCA Production and Quality School Level I certification may perform this test.

²For aggregate moisture content testing, Fabricator personnel qualified by the QC Supervisor for this particular test may perform it.

12.3.

Fabricator Safety Point of Contact. Designate a safety point of contact. Fabricator must adhere to applicable safety regulations and own safety program.

12.4.

Commercial Laboratories. The fabrication plant may use commercial laboratory personnel or facilities to perform the testing in Table 1 provided they meet the following requirements:

- technicians must possess the following:
 - current ACI Concrete Strength Testing Technician certification, for QC personnel performing concrete compressive strength testing;
 - current ACI Aggregate Testing Technician Level 1 certification, for personnel performing aggregate testing per Table 1; and
- for testing performed at the commercial lab, the lab must be AASHTO-accredited in the specific tests to be conducted.

12.5.

Responsibilities. QC is solely the responsibility of the fabricator. Perform the following activities, at a minimum, to ensure the quality and acceptability of the fabricated products.

12.5.1.

Inspection. QC personnel must follow approved procedures and verify correct fabrication processes for each member and will inspect all finished products. QC personnel must ensure at a minimum:

- proper preparation or evaluation of concrete mix designs per [Tex-703-I](#);
- proper form dimensions, condition, cleanliness, and placement;
- proper placement of reinforcing steel and embedments;
- proper procedures for batching, mixing, placing, consolidating, finishing, and curing of concrete;
- proper procedure for final inspection of product;
- proper procedure for damage evaluation and repairs in accordance with this Specification and the Department's *Concrete Repair Manual*;
- proper procedures for storage of applicable component materials;
- proper handling, storage, and loading of members, including verifying unacceptable units are marked in accordance with Article 11, "Certification of Product," and
- acceptable product is properly and legibly marked, stamped approved, and product is not damaged or in need of repair in storage and before shipping.

13. PLANT TESTING EQUIPMENT

- 13.1. **Laboratory Testing Equipment.** Laboratory equipment must comply with applicable section of [Tex-237-F](#) and [Tex-498-A](#) and is subject to Department approval. Calibrate all equipment and house it on-site in a weatherproof enclosure. Recalibrate equipment at the Contractor's expense per [Tex-498-A](#) and as follows:
- as required by the manufacturer,
 - when suspect results, malfunction, repair work occurs, or
 - as directed by the Engineer.
- 13.2. **Concrete Compression Testing Machine and Three-Edge Bearing Testing Machine.** Calibrate the concrete compression testing machine and three-edge bearing testing machine in accordance with ASTM C 497. Calibrate at least once every 12 mo. or whenever accuracy is questioned.

Table 1
Contractor Minimum Materials QC Sampling and Testing Frequencies

Material	Test Method	Frequency
Fine Aggregate	Sieve Analysis ¹ per Tex-401-A	<ul style="list-style-type: none"> All Formed Precast Units - one per 1,000-cu. yd. of concrete production, Min one biweekly per source² All Machine-Made Precast Units – Not Required
	Fineness Modulus ¹ per Tex-402-A	
	Sand Equivalent ¹ per Tex-203-F	
	Specific Gravity and Absorption ³ per Tex-403-A	One per 6 mo. and when the material source changes.
	Unit Weight ³ per Tex-404-A	
	Moisture Content ¹ or ⁴ per Tex-409-A , Tex-425-A , or ASTM C 566	One before the first batch of concrete placed each day and when there is an apparent change. ⁵
Coarse Aggregate	Sieve Analysis ¹ per Tex-401-A	<ul style="list-style-type: none"> All Formed Precast Units - one per 1,000-cu. yd. of concrete production, Min one biweekly per source² All Machine-Made Precast Units – Not Required
	Decantation ¹ per Tex-406-A	
	Specific Gravity and Absorption ³ per Tex-403-A	One per 6 mo. and when the material source changes.
	Unit Weight ³ per Tex-404-A	
	Moisture Content ¹ or ⁴ per Tex-409-A , or ASTM C 566	One before the first batch of concrete placed each day and when there is an apparent change. ⁵
Reinforcing Steel (RC Pipe only)	ASTM A 1064 when base metal rod is cold-drawn during helical cage production. Required tests: tensile, bend, and reduction of area. Test in the cold drawn state.	Per ASTM A 1064
	ASTM A 370 or C 497 for Welded Lap Splices ⁶ not lapped to a Min <ul style="list-style-type: none"> 20 diameters for deformed bars and wire or 40 diameters for plain bars and wire 	Once every 6 mo. per wire diameter.
Non-Self-Consolidating Concrete (Conventional or Dry Cast Concrete)	Unit Weight ⁷ per ASTM C 138	<ul style="list-style-type: none"> Formed Precast - one per month per mix design and when a new mix design is established⁸ Machine-Made Precast – Not Required
	Slump ⁷ per ASTM C 143	<ul style="list-style-type: none"> Formed Precast Units - one from first concrete batch, one for each set of compressive strength cylinders, and one from another concrete batch^{9, 10} Machine-Made Precast – Not Required
	Temperature ⁷ or ¹¹ per ASTM C 1064	<ul style="list-style-type: none"> One for the first batch of concrete placed and one for each set of compressive strength cylinders^{9, 10} Record a Min of one temperature reading during most extreme air temperature condition during casting
	Make Test Cylinders per Tex-447-A ⁷ for formed precast or ASTM C 497 ^{12, 13} for precast machine-made units Cure Test Cylinders: <ul style="list-style-type: none"> Formed Precast - per Tex-704-I Section 4.2.2. Machine-Made Precast Units & Concrete Fittings and Transitions - in the same manner and for the same duration as the units they represent until tested 	<ul style="list-style-type: none"> Formed Precast Units - one set during last 25% of casting and in accordance with Tex-704-I. Cylinders may be made before the last 25% of casting when curing with membrane curing compound Machine-Made Precast Units Except Machine-Made RC Pipe- a minimum of six test specimens for each day's production, mix design, and curing condition Machine-Made RC Pipe¹⁴ Box Culvert & RC Pipe Concrete Fittings and Transitions – a Min of two test specimens for each mix design per month.¹⁵

Non-Self-Consolidating Concrete (Conventional or Dry Cast Concrete) Continued...	Compressive Strength ¹⁶ per ASTM C 39	Box Culverts, Junction Boxes, Manholes, and Inlets – a <u>Min</u> of one set consisting of two cylinder test specimens per each day's production run, mix design, and curing method; retests per Section 8.10.1., "All Precast Units with the Exception of Machine-Made RC Pipe."
		RC Pipe – <ul style="list-style-type: none"> Formed Precast – a <u>Min</u> of one set consisting of two cylinder test specimens per each day's production lot; retests per Section 8.10.1., "All Precast Units with the Exception of Machine-Made RC Pipe," Machine-Made Precast RC Pipe – <ul style="list-style-type: none"> a) RC pipe < 66-in. diameter – material acceptance is determined by 3EB test b) RC pipe ≥ 66-in. diameter¹⁴
		Box Culvert & RC Pipe Concrete Fittings and Transitions – a <u>Min</u> of one set consisting of two test specimens per month. ^{17, 15}
	Initial Time of Set ⁷ per ASTM C 403	Formed Precast Units - when a new mix design with accelerating admixture is established or accelerated curing will be used, and as directed.
Self-Consolidating Concrete (SCC)	Slump Flow and VSI Rating ⁷ per ASTM C 1611	One for each of the first two batches of concrete placed, one for every fifth continuous batch (not delivered load) thereafter, and one for each set of compressive strength cylinders. ^{9, 10}
	Temperature ⁷ per ASTM C 1064	One for the first batch of concrete placed and one for each set of compressive strength cylinders. ^{9, 10} Record a minimum of one temperature reading during most extreme air temperature condition during casting.
	Unit Weight ^{7, 18} per ASTM C 138	One per month and when a new mix design is established. ⁸
	Make Test Cylinders per Tex-447-A7 . Cure Test Cylinders per Tex-704-I Section 4.2.2.	One set during last 25% of casting and in accordance with Tex-704-I . Cylinders may be made prior to the last 25% of casting when curing with membrane curing compound.
	Compressive Strength ¹⁶ per ASTM C 39	A <u>Min</u> of one set consisting of two test specimens per each day's production lot; retests per Section 8.10.1.
	T-50 ⁷ per ASTM C 1611	Two per year (summer and winter) and when a new mix design is established. ¹⁹
	Passing Ability (J-ring) ⁷ per ASTM C 1621	
	Segregation Column ⁷ per ASTM C 1610	
	Bleeding ^{7, 18} per ASTM C 232	
	Initial Time of Set ^{7, 18} per ASTM C 403	When a new mix design with accelerating admixture is established or accelerated curing will be used, and as directed.
RC Pipe (circular, arch, and elliptical)	Three Edge Bearing Test ^{20, 13} or Concrete Cores ⁸ per Section 8.10.2., "Machine-Made RC Pipe," and per ASTM C 497	<ul style="list-style-type: none"> Formed Precast – Not Required. Acceptance based on cylinder strength test results Machine-Made Precast - <ul style="list-style-type: none"> RC pipe < 66-in. diameter – material acceptance must be determined by 3EB test per ACPA or NPCA and a <u>Min</u> of one test per year. Retests per the applicable ASTM RC pipe ≥ 66-in. diameter¹⁴ – one 3EB test for every 100 sections and a <u>Min</u> of one test per year for each size, class, and curing method; or one core from each day's production run, mix design, and curing method²¹
<ol style="list-style-type: none"> QC personnel with current ACI Aggregate Testing Technician Level 1 must perform these tests. For new aggregate sources and after a failing test for existing sources, increase testing frequency to one per 500-cu. yd. of concrete production, tested prior to use, until obtaining three consecutive passing tests. Do not use failed aggregate in the concrete without approval. QC personnel with current ACI Aggregate Testing Technician Level 1 must perform these tests or aggregate material supplier may perform the test and provide certified test results. Use results from these tests to proportion new concrete mix designs and to adjust existing concrete mix designs. Fabricator personnel qualified by the QC Supervisor for this particular test may perform this test. 		

5. When aggregate weighing hopper or storage bins are equipped with properly maintained electric moisture probes for continuous moisture determination, these moisture tests are not required daily. Electric moisture probes, however, must be verified weekly against [Tex-409-A](#), or ASTM C 566 test results to ensure the compared values do not vary more than 0.3%. The sample for moisture verification test must be representative of the material located where the electric moisture probe is registering moisture readings. Electric moisture probes are required for SCC unless approved by the Engineer. If approved, test moisture content every 4 hr. and when there is an apparent change while SCC is being produced.
6. Perform a minimum of three pull tests (tensile strength test). Weld splice test specimens from welded wire reinforcement must develop at least 50% of the minimum specified tensile strength of the steel referenced in ASTM A 1064. Retest must be in accordance with ASTM A 370.
7. QC personnel with current ACI Concrete Field Testing Technician – Grade I certification must perform these tests.
8. When the fresh unit weight of concrete varies from the established value by more than ± 2 -lb. per cubic foot., check the air content per ASTM C 231 or ASTM C 173 first to determine if air content has changed from the initial mix design. If air content is correct, check aggregate unit weight, gradation, moisture content, specific gravity, and that the mix proportions have not changes. Verify the fresh unit weight of concrete after making adjustments.
9. Per mix design per cast date.
10. If a test fails, test every delivered load until three consecutive tests pass.
11. QC personnel with current PCI Level I Quality Control Technician, NPCA Production and Quality School Level I, or ACPA Quality School certification **may** perform this test **for fresh dry cast concrete**.
12. After molding, inscribe the cylinder identification into the top of the cylinders with minimal disturbance to the surface finish, or tag each cylinder using an approved tagging system.
13. **QC personnel with current PCI Level I Quality Control Technician, NPCA Production and Quality School Level I, or ACPA Quality School certification must perform this test.**
14. For **machine-made** RC pipe 66-in. and larger in diameter, instead of 3EB or concrete core testing, a minimum of five cylinders may be prepared per day, mix design, **and curing method** in accordance with ASTM C 497. For product acceptance, test a set of two cylinders to verify design strength in accordance ASTM C 39. When compressive strength specimens fail to meet 100% of the design strength **by an age of 28 days**, retest in accordance with Section 8.10.2.1., "Machine-Made RC Pipe 66-in. Diameter and Larger." Cylinder compression testing is not allowed for acceptance testing of **machine-made** RC pipe less than 66-in. in diameter.
15. If using the same concrete mix design as the parent members, this additional testing is not required provided no adjustments were made to the original concrete mix design.
16. QC personnel with current ACI Concrete Strength Testing Technician certification must perform this test. Commercial laboratories meeting the requirements of Section 12.4., "Commercial Laboratories," may perform this test.
17. The average strength of the test specimens must meet the minimum design strength requirement of the parent member (box culvert or RC pipe section).
18. Follow ASTM C 1758 for filling of test specimens.
19. Notify MTD when this testing is to be performed. Retests not allowed. If test fails discontinue the use of the mix design, determine cause of failure, and discuss corrective actions required with MTD before fabricating additional product.
20. Test for the load to produce a 0.01-in. crack or 15% in excess of the required D-Load, whichever is less. Test the youngest RC pipe section in the lot.
21. When compressive strength cores fail to meet 100% of the design strength by an age of 28 days, retest in accordance with Section 8.10.2.1.

ANNEX
(Mandatory Information)
CRITERIA FOR EVALUATION OF PRECAST DRAINAGE STRUCTURES

Scope. Use the following requirements to determine if the type and extent of damage will be cause for rejection. If the damage is within the defined criteria, perform repairs using the repair procedure specified. The requirements contained in this Annex do not apply to cosmetic damage as defined in Article 2.

Evaluation requirements are included for the following conditions:

- fractures or cracks,
- manufacturing defects,
- spalls, and
- damaged ends.

Definitions. The following definitions apply only to the Annex portion of this Specification:

- **Slab Sections** – any circular or noncircular flat section without walls,
- **Honeycomb** – voids that may extend deeper than the surface due to inadequate concrete consolidation, grout leakage, or a dry or stiff concrete mix,
- **Open Texture** – surface voids typically due to an insufficient quantity of mortar or a dry or stiff concrete mix,
- **Round Sections** – any circular, hollow section with a straight wall or conical shape. It includes RC pipe sections, and round shape sections for manhole and inlet structures,
- **Square and Rectangular Sections** – any noncircular, three or four-sided shape section. It includes box culvert and junction box sections, and square or rectangular shape sections for manhole and inlet structures,
- **Slab Off** – a separation (delamination) of freshly placed concrete, while in the plastic state that typically occurs at a steel reinforcement plane, and
- **Spall** – physical damage (breakage) of hardened concrete that may occur during handling, storage, etc.

A1. ROUND SECTIONS

A1.1. Fractures or Cracks.

A1.1.1. Causes for Rejection Due to Fractures or Cracks:

- any fracture or crack passing through the wall of the section (See Condition #1 in Figure A1.1, "Rejectable Fractures or Cracks");
- any fracture or crack 0.01 in. wide or greater at the surface and 12 in. or longer regardless of position in the wall of the section (See Condition #2 in Figure A1.1); or
- any fractures or cracks not covered above that are numerous and extensive.

If a visible crack exists on the inside wall and QC is unable to observe the opposite side of the wall in question, the producer will have the option of either eliminating the obstruction or removing the section from the lot.

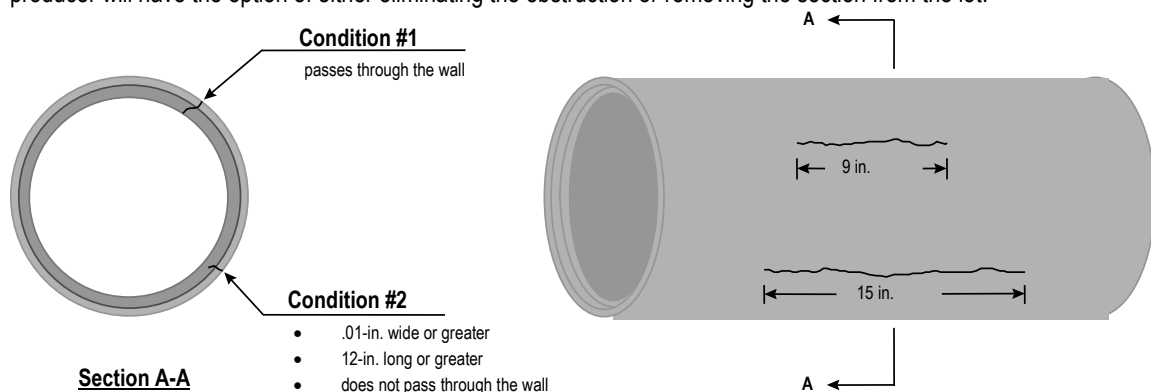


Figure A1.1
Rejectable Fractures or Cracks

Condition #1—Crack passes through the wall, regardless of crack width or length.

Condition #2—Crack is at least 0.01 in. wide and at least 12 in. long, even though it does not pass through the wall.

A1.1.2. Acceptable Conditions Due to Fractures or Cracks:

- two end cracks that do not exceed the depth of the joint (See Figure A1.2, “Acceptable Fractures or Cracks.”) If the area between the cracks is found to be sound, then no repair is required. If the area is not sound, then remove unsound concrete and evaluate per Section A1.4., “Concrete Spalls”; or
- fractures or cracks not passing through the wall, provided they are:
 - less than 0.01 in. wide, or
 - 0.01 in. or greater and less than 12 in. long and are repaired with a cementitious repair material in accordance with the requirements of [DMS-4655](#), “Concrete Repair Materials.”

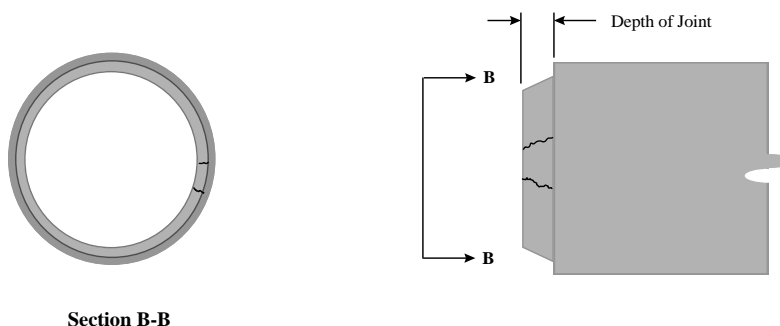


Figure A1.2
Acceptable Fractures or Cracks
Two end cracks that do not exceed depth of joint

A1.2. Manufacturing Defects.

A1.2.1. Causes for Rejection Due to Manufacturing Defects. Any defect that indicates imperfect proportioning, mixing, or molding, including:

- offsets in form seams that would prevent adequate concrete cover over reinforcing steel;

- excessive moisture in concrete causing the walls to sag during production or creating undesirable “rifling” type tool marks 1/4 in. or greater in height inside the barrel, see Figure A1.3, “Rejectable Manufacturing Defects ‘Rifling’ Tool Marks;”
- delamination along the body of the pipe exceeding four inches in length when determined by hammer testing, or chipping to sound concrete;
- evidence of inadequate concrete cover for reinforcing steel; or
- evidence of fresh concrete segregation, i.e., slick surface or sand streaking.

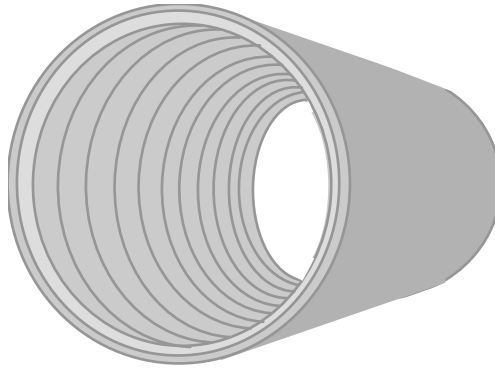


Figure A1.3
Rejectable Manufacturing Defects “Rifling” Tool Marks
If marks are 1/4 in. or greater in height

A1.2.2. Acceptable Conditions Due to Manufacturing Defects. Delamination along the body of the pipe not exceeding 4 in. in length when determined by hammer testing or chipping to sound concrete. Repair in accordance with Chapter 3, Section 2, “Intermediate Spall Repair,” of the Department’s *Concrete Repair Manual*.

A1.2.3. Causes for Rejection of Surface Defects Due to Honeycomb or Open Texture:

- honeycomb or open texture on the inside surface of the barrel that exposes reinforcing steel, regardless of size;
- honeycomb or open texture located on the outside surface of the barrel that:
 - exceeds 18 in. in any direction, or
 - greater than 2 in. in depth;
- open texture that causes undesirable concrete permeability (See Figure A1.4, “Rejectable Manufacturing Defect”); or
- any less severe surface condition that affects the majority of the surface and could reduce the durability and service life of the member (See Figure A1.4).

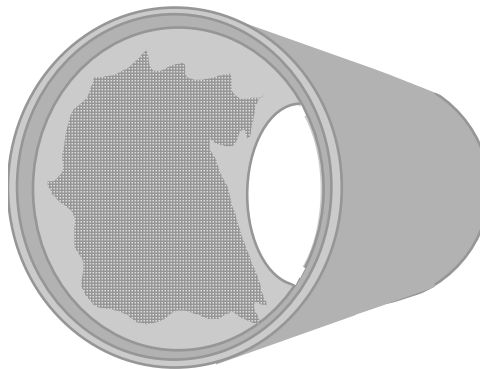


Figure A1.4
Rejectable Manufacturing Defect

A1.2.4. Acceptable Conditions of Surface Defects Due to Honeycomb or Open Texture. Honeycomb or open texture surface conditions less severe than stated in Section A1.2.3., “Causes for Rejection of Surface Defects Due to Honeycomb or Open Texture,” are acceptable if properly repaired as follows:

- **Areas with a maximum depth of 1 in.** Repair in accordance with Chapter 3, Section 1, “Minor Spall Repair,” of the Department’s *Concrete Repair Manual*, with the exception that cementitious repair materials in accordance with the requirements of [DMS-4655](#) may be used.
- **Areas with a depth greater than 1 in. and up to 2 in.** Repair in accordance with Chapter 3, Section 2, or Chapter 3, Section 3, “Major Spall Repair and Concrete Replacement,” of the Department’s *Concrete Repair Manual*.

A1.3. Slab Offs.

A1.3.1. Causes for Rejection Due to Slab Offs:

- slab off areas in less than 42-in. diameter pipe sections not repaired while the concrete is in the plastic state; or
- slab off areas greater than 18 in. in any direction in 42-in. diameter or greater pipe sections not repaired while the concrete is in the plastic state.

A1.3.2. Acceptable Conditions due to Slab Offs. Slab off areas extending to the reinforcing steel may be repaired while the concrete is in the plastic state per one of the following methods:

- placing the member back in the form and filling the slab off areas with concrete using standard casting techniques; or
- pipe sections with a single slab off area may be repaired by trowel-applying batched concrete from the same mix design into the slab off area if not greater than 18 in. in any direction.

For 42-in. diameter sections and greater only, slab off areas not greater than 18 in. in any direction and extending to the reinforcing steel may be repaired once concrete is no longer in the plastic state per one of the following options:

- **Areas with a maximum depth of 1 in.** Repair in accordance with Chapter 3, Section 1, of the Department’s *Concrete Repair Manual* with the exception that cementitious repair materials in accordance with the requirements of [DMS-4655](#) may be used; or
- **Areas with a depth greater than 1 in. and up to 2 in.** Repair in accordance with Chapter 3, Section 2, or Chapter 3, Section 3, of the Department’s *Concrete Repair Manual*.

A1.4. Concrete Spalls.

A1.4.1. Causes for Rejection Due to Spalls. Any spall in the wall extending to the reinforcing steel, for sections less than 42-in. in diameter, will be cause for rejection, except spalls at lifting holes that extend to reinforcing steel may be authorized for repair by QC per Section A1.4.2., “Acceptable Conditions due to Spalls.” See Figure A1.5, “Rejectable and Repairable Manufacturing Defects—Spalls.”

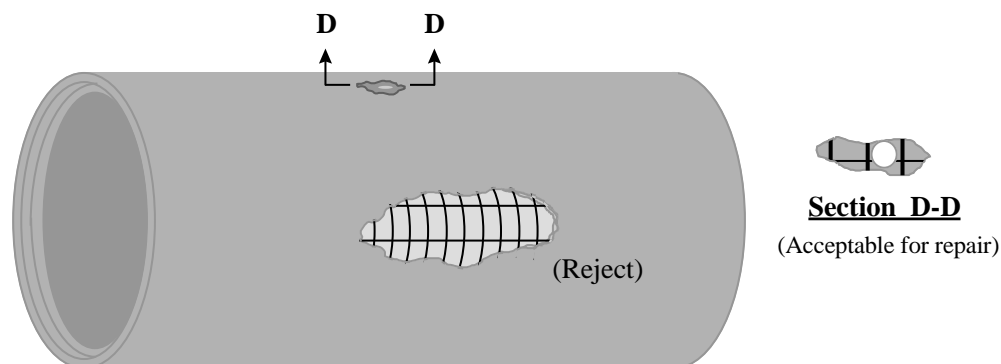


Figure A1.5
Rejectable and Repairable Manufacturing Defects—Spalls

A1.4.2. Acceptable Conditions due to Spalls:

- repair spalled areas at lifting holes that extend to reinforcing steel in accordance with Chapter 3, Section 2, of the Department's *Concrete Repair Manual*; or
- repair spalled areas in the wall not greater than 18 in. in any direction and **not** extending to the steel reinforcement, except at lifting holes, in accordance with Chapter 3, Section 1, of the Department's *Concrete Repair Manual*, with the exception that cementitious repair materials in accordance with the requirements of [DMS-4655](#) may be used.

For 42-in. diameter sections and greater only, spalled areas not greater than 18 in. in any direction and extending to the reinforcing steel may be repaired per one of the following options:

- **Spalled Areas with a maximum depth of 1 in.** Repair in accordance with Chapter 3, Section 1, of the Department's *Concrete Repair Manual* with the exception that cementitious repair materials in accordance with the requirements of [DMS-4655](#) may be used, and
- **Spalled Areas with a depth greater than 1 in. and up to 2 in.** Repair in accordance with Chapter 3, Section 2, or Chapter 3, Section 3, of the Department's *Concrete Repair Manual*.

A1.5. Damaged Ends.

- A1.5.1. Causes for Rejection for Damaged Ends.** Joint end damage 1 in. and greater in depth that exceeds the length dimensions noted in Table A1.1, "Permissible Repair Criteria." See Figures A1.6, "Damaged End – Bell End," and A1.7, "Damaged End – Spigot End."

Table A1.1
Permissible Repair Criteria
(End Damage 1 in. and Greater in Depth Within the Joint)

Size (in.)	Permissible Cumulative Damage Length (in.)	Permissible Individual Damage Length (in.)
Designation	(50% circumference Max) ¹	(25% circumference Max) ²
12	18-1/2	9
15	23-1/2	11-3/4
18	28-1/4	14
24	37-3/4	19
27	42-1/4	21-1/4
30	47	23-1/2
36	56-1/2	28-1/4
42	66	33
48	75-1/4	37-1/2
54	84-3/4	42-1/2
60	94-1/4	47

1. $L_1 + L_2 + L_3$ must not exceed 50% of the circumference. See example.

2. L_1 , L_2 , or L_3 must not exceed 25% of the circumference. See example.

Example:

Circumference = πd , where d = diameter.

To determine the circumference of a 24-in. section, multiply the diameter by π :

($\pi = 3.1416$), Circumference = 24-in. \times 3.1416 = 75.4-in.,

Determine 50% of the circumference:

75.4-in. \times 0.50 = 37.7-in. (37-3/4-in.) – permissible cumulative damage length ($L_1 + L_2 + L_3$)

Determine 25% of the circumference:

75.4-in. \times 0.25 = 18.85-in. (19-in.) – permissible individual damage length (L_1 , L_2 , or L_3)

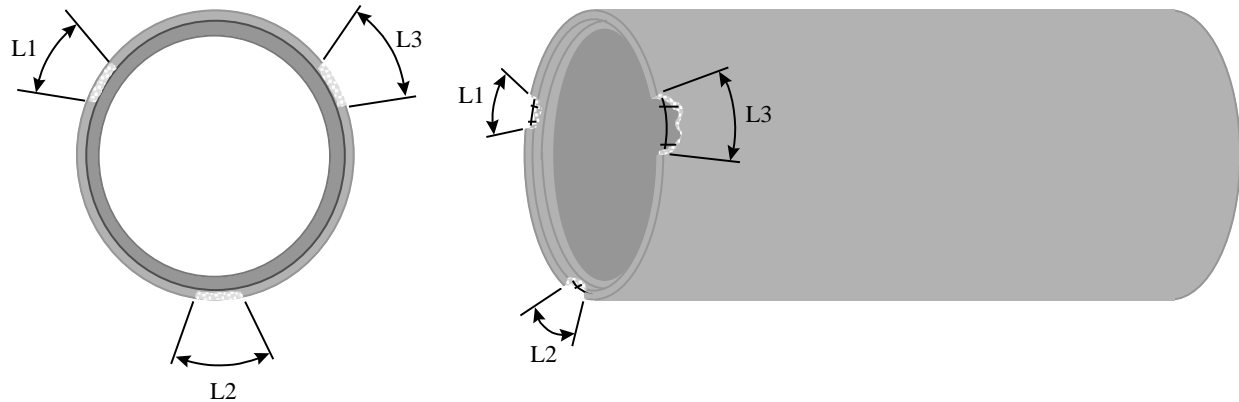


Figure A1.6
Damaged End—Bell End

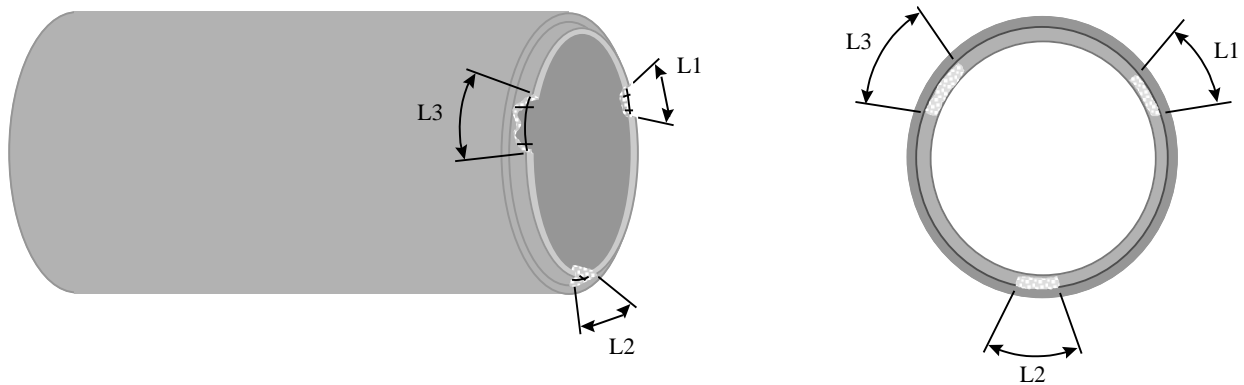


Figure A1.7
Damaged End—Spigot End

A1.5.2. Acceptable End Damage. Damage to either the bell or spigot end of the section may be authorized for repair and accepted by QC per the following:

- **Areas with a maximum depth of 1 in. from the end of the bell or spigot which may involve the entire joint end.** Repair in accordance with Chapter 3, Section 1, of the Department's *Concrete Repair Manual* with the exception that cementitious repair materials in accordance with the requirements of [DMS-4655](#) may be used; or
- **Areas with a depth greater than 1 in. from the end of the bell or spigot, not exceeding the depth of the joint, and not exceeding the length dimensions noted in Table A1.1.** Repair in accordance with Chapter 3, Section 2, or Chapter 3, Section 3, of the Department's *Concrete Repair Manual*.

A2. SQUARE AND RECTANGULAR SECTIONS

A2.1. Fractures or Cracks.

A2.1.1. Causes for Rejection Due to Fractures or Cracks:

- any fracture or crack that passes through the wall or slab of the section (See Condition #1 in Figure A2.1, "Rejectable Fractures or Cracks");
- any fracture or crack that is 0.01 in. wide or greater at the surface and 12 in. or longer and extends beyond the first layer of steel reinforcement, regardless of the position in the wall or slab (See Condition #2 in Figure A2.1); or
- any fractures or cracks not covered above that are numerous and extensive.

If a visible crack exists on the inside wall or slab and QC is unable to observe the opposite side of the wall or slab in question, the producer must either eliminate the obstruction or remove the section from the lot.

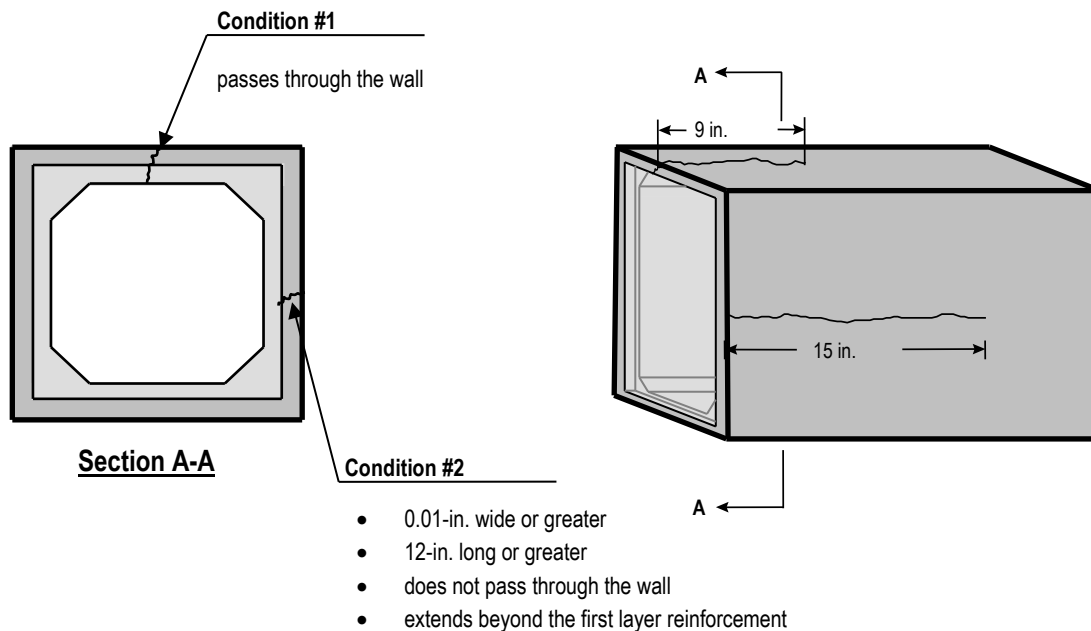


Figure A2.1

Rejectable Fractures or Cracks

Condition #1—Crack passes through the wall, regardless of crack width or length.

Condition #2—Crack is at least 0.01 in. wide and at least 12 in. long, extends beyond the first layer of steel reinforcement, even though it does not pass through the wall.

A2.1.2. Acceptable Conditions Due to Fractures or Cracks.

- Two end cracks that do not exceed the depth of the joint are acceptable if sound, no repair is required (See Figure A2.2, “Acceptable Fractures or Cracks.”) If the area is not sound, then remove unsound concrete and evaluate damaged area per Section A2.4., “Concrete Spalls,” of the Annex.
- Greater than or equal to 0.01 in. wide and not extending beyond the first layer of the steel reinforcement – repair in accordance with Chapter 3, Section 2, of the Department’s *Concrete Repair Manual*.

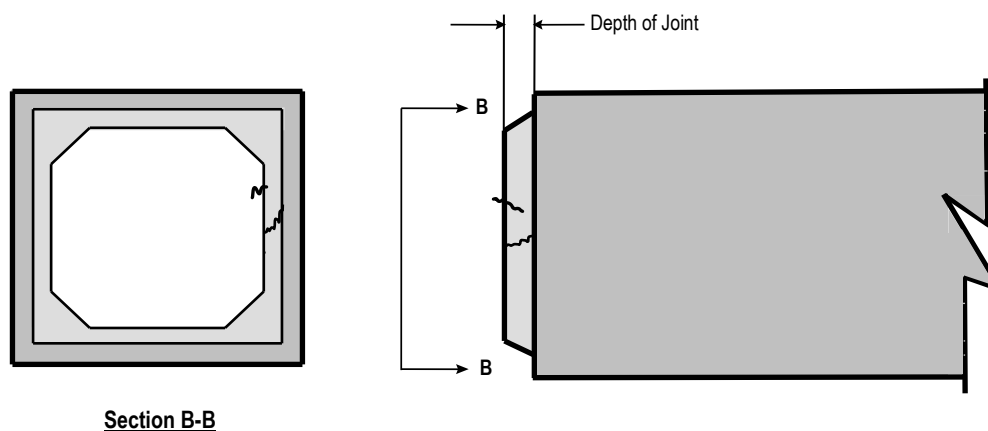


Figure A2.2

Acceptable Fractures or Cracks

Two end cracks that do not exceed depth of joint

A2.1.3. Fractures or Cracks in Sections above Pipe Connections. If the area between the cracks is not sound, then remove unsound concrete and evaluate as a spall per Section A1.4. Fracture or crack located at the area above a pipe connection of a precast base drop inlet or junction box, as shown below in Figure A2.3, "Fractures or Cracks in Areas above Pipe Connections," must be evaluated per the following:

- fracture or crack located at a thin area that is unreinforced does not require repair;
- reinforced areas with a depth less than 3 in. – Repair fracture or crack with cementitious repair materials in accordance with the requirements of [DMS-4655](#); or
- reinforced area with a depth greater than 3 in. - Evaluate fracture or crack per Section A2.1.1., "Causes for Rejection Due to Fractures or Cracks."

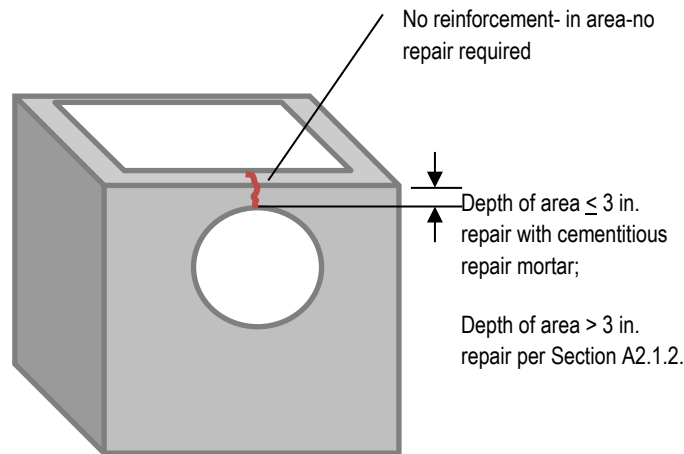


Figure A2.3
Fractures or Cracks in Areas above Pipe Connections

A2.2. Manufacturing Defects.

A2.2.1. Causes for Rejection Due to Manufacturing Defects. Any defect that indicates imperfect proportioning, mixing, or molding including (See Figure A2.4, "Rejectable Manufacturing Defects"):

- offsets in form seams that would prevent adequate concrete cover over reinforcing steel,
- excessive moisture in concrete causing walls or slabs to sag during production,
- delamination in the body of the section when viewed from the ends or when determined from hammer testing,
- evidence of inadequate concrete cover for reinforcing steel, or
- evidence of fresh concrete segregation, i.e. slick surface or sand streaking.

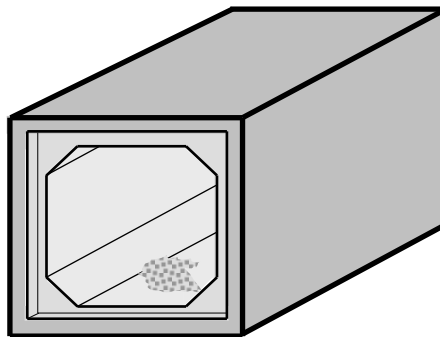


Figure A2.4
Rejectable Manufacturing Defect

A2.2.2. Causes for Rejection of Surface Defects Due to Honeycomb or Open Texture:

- honeycomb or open texture on the top surface of the bottom slab that exposes reinforcing steel, regardless of size;
- open texture on the top surface of the bottom slab causing undesirable concrete permeability;
- honeycomb or open texture at locations other than the top surface of the bottom slab, extending to steel reinforcement, that exceeds 18 in. in any direction; or
- any less severe surface condition that affects the majority of the surface and could reduce the durability and service life of the member.

A2.2.3. Acceptable Conditions of Surface Defects Due to Honeycomb or Open Texture. Honeycomb or open texture surface conditions less severe than stated in Section A2.2.2., “Causes for Rejection of Surface Defects Due to Honeycomb or Open Texture,” are acceptable if properly repaired.

- **Areas with a maximum depth of 1 in.** Repair in accordance with Chapter 3, Section 1, of the Department’s *Concrete Repair Manual* with the exception that cementitious repair materials in accordance with the requirements of [DMS-4655](#) may be used; or
- **Areas with a depth greater than 1 in. and up to 2 in.** Repair in accordance with Chapter 3, Section 2, or Chapter 3, Section 3, of the Department’s *Concrete Repair Manual*.

A2.3. Slab Offs.

A2.3.1. Causes for Rejection Due to Slab Offs:

- slab off areas occurring on the top surface of the bottom slab not repaired while the concrete is in the plastic state,
- slab off areas not repaired while the concrete is in the plastic state and exceeding 18 in. in any direction (See Figure A2.5, “Rejectable and Repairable Slab Offs,”) or
- more than two slab off areas in a section.

A2.3.2. Acceptable Conditions Due to Slab Offs. Slab off areas extending to the reinforcing steel (See Figure A2.5) may be repaired while the concrete is the plastic state per one of the following methods:

- placing the member back in the form and filling the slab off area with concrete using standard casting techniques, or
- trowel-applying batched concrete from the same mix design into the slab off area if not greater than 18 in. in any direction.

Slab off areas not greater than 18 in. in any direction and extending to the reinforcing steel may be repaired once concrete is no longer in the plastic state per one of the following methods provided the affected areas is not at the top of the bottom slab:

- **Areas with a maximum depth of 1 in.** Repair in accordance with Chapter 3, Section 1, of the Department’s *Concrete Repair Manual* with the exception that cementitious repair materials in accordance with the requirements of [DMS-4655](#) may be used; or
- **Areas with a depth greater than 1 in. and up to 2 in.** Repair in accordance with Chapter 3, Section 2, of the Department’s *Concrete Repair Manual* with the exception that batch concrete from the same mix design used in the member may be used; or
- **Areas with a depth greater than 2 in.** Repair in accordance with Chapter 3, Section 3, of the Department’s *Concrete Repair Manual*.

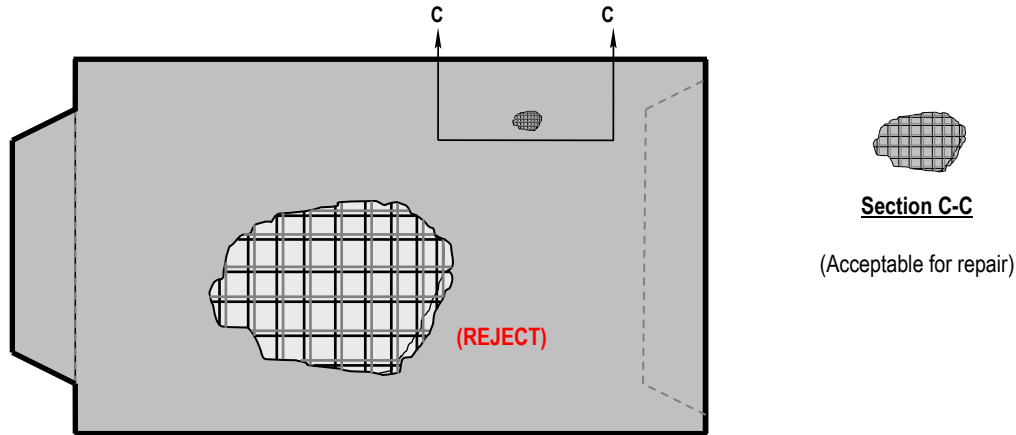


Figure A2.5
Rejectable and Repairable Slab Offs

A2.4. Concrete Spalls.

A2.4.1 Causes for Rejection Due to Spalls:

- more than two spalls within the same slab or wall, or
- any spall in the slab or wall section extending to the reinforcing steel that exceeds 18 in. in any direction.

A2.4.1. Acceptable Conditions Due to Spalls:

- repair spalled areas at lifting holes that extend to reinforcing steel in accordance with Chapter 3, Section 2, of the Department's *Concrete Repair Manual*;
- repair spalled areas in the wall not greater than 18 in. in any direction and not extending to the steel reinforcement, except at lifting holes, in accordance with Chapter 3, Section 1, of the Department's *Concrete Repair Manual*, with the exception that cementitious repair materials in accordance with the requirements of [DMS-4655](#) may be used.

Spalled areas not greater than 18 in. in any direction and extending to the reinforcing steel may be repaired per one of the following methods:

- **Areas with a maximum depth of 1 in.** Repair in accordance with Chapter 3, Section 1, of the Department's *Concrete Repair Manual* with the exception that cementitious repair materials in accordance with the requirements of [DMS-4655](#) may be used,
- **Areas with a depth greater than 1 in. and up to 2 in.** Repair in accordance with Chapter 3, Section 2, of the Department's *Concrete Repair Manual* with the exception that batch concrete from the same mix design used in the member may be used, or
- **Areas with a depth greater than 2 in.** Repair in accordance with Chapter 3, Section 3, of the Department's *Concrete Repair Manual*.

A2.5. Damaged Ends.

A2.5.1 Causes for Rejection for Damaged Ends. Any individual or cumulative joint end damage greater than 1 in. in depth and the cumulative damage length exceeds 20% of the perimeter of the section.

A2.5.2 Acceptable Conditions for Damaged Ends. Damaged areas at the tongue or groove end of the section (See Figure A2.6, "Damaged End – Groove End,") may be repaired as follows:

- **Areas with a maximum depth of 1 in. from the end of the tongue or groove which may involve the entire joint end.** Repair in accordance with Chapter 3, Section 1, of the Department's *Concrete Repair Manual* with the exception that cementitious repair materials in accordance with the requirements of [DMS-4655](#) may be used;

- Areas with a depth greater than 1 in. and up to 2 in. from the end of the tongue or groove, not exceeding the depth of the joint, and the cumulative damage length does not exceed 20% of the perimeter of the section. Repair in accordance with Chapter 3, Section 2, or Chapter 3, Section 3, of the Department's *Concrete Repair Manual*; or
- Areas with a depth greater than 2 in. from the end of the tongue or groove, not exceeding the depth of the joint, and the cumulative damage length does not exceed 20% of the perimeter of the section. Repair in accordance with Chapter 3, Section 3, of the Department's *Concrete Repair Manual*.

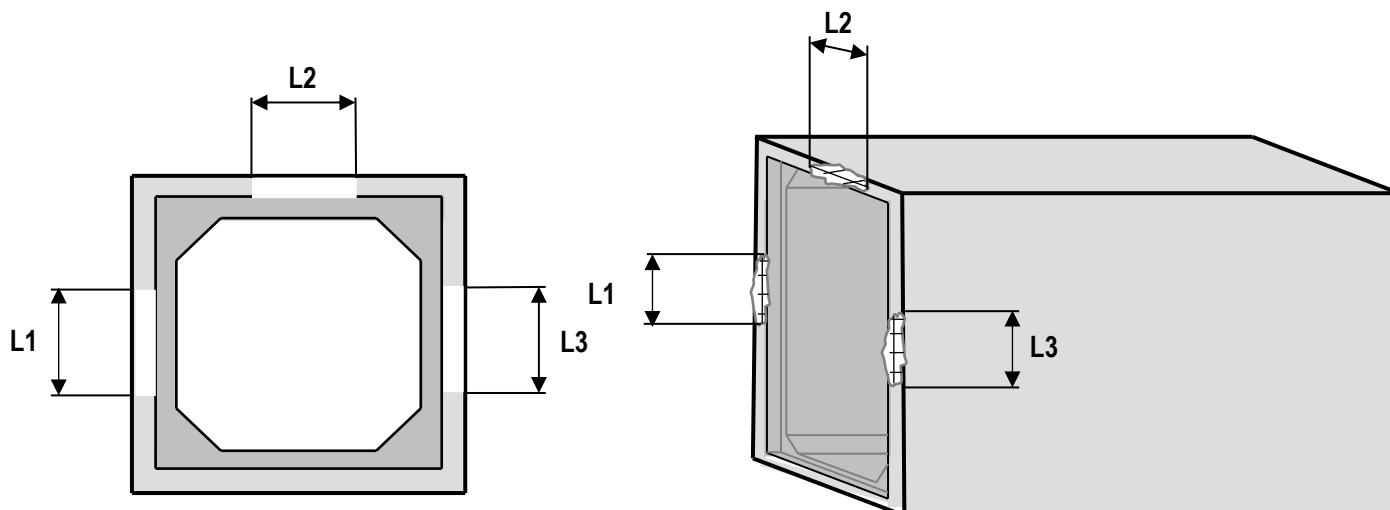


Figure A2.6
Damaged End—Groove End

Example: Multiple spalls on a rectangular section

To determine the permissible damage length of a 10 ft. x 5 ft. section, determine the perimeter of the section by adding the length of each side:

Conversion from foot to inches: 10 ft. = 120 in. 5 ft. = 60 in.

Perimeter of a 10 ft. x 5 ft. section equals:

$$(120 \text{ in.} \times 2) + (60 \text{ in.} \times 2) = 240 \text{ in.} + 120 \text{ in.} = 360 \text{ in.}$$

Maximum permissible damage is 20% of the perimeter of the section:

$$360 \text{ in.} \times 20\% = 72 \text{ in.}$$

Therefore: total damage length of L1 + L2 + L3 must be less than or equal to 72 in.

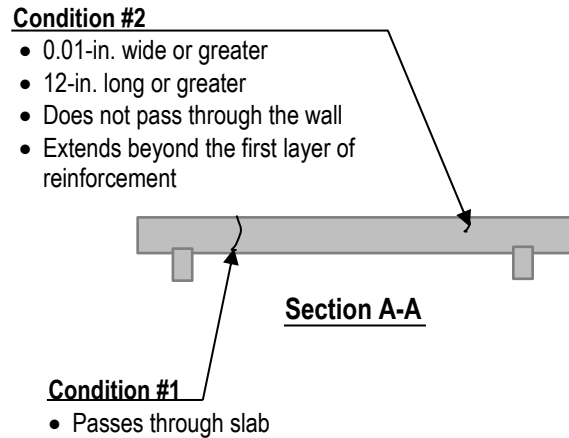
A3. SLAB SECTIONS.

A3.1. Fractures or Cracks.

A3.1.1. Causes for Rejection Due to Fractures or Cracks:

- any fracture or crack that passes through the slab section (See Condition #1 in Figure A3.1, "Rejectable Fractures or Cracks,")
- any fracture or crack that is 0.01 in. wide or greater at the surface and 12 in. or longer and extends beyond the first layer of steel reinforcement (See Condition #2 in Figure A3.1); or
- any fractures or cracks not covered above that are numerous and extensive.

If a visible crack exists and QC is unable to observe opposite side, the producer will have the option of either eliminating the obstruction or removing the section from the lot.



Rejectable Fractures or Cracks

Condition #1—Crack passes through the slab, regardless of crack width or length.

Condition #2—Crack is at least 0.01 in. wide and at least 12 in. long, extends beyond the first layer of steel reinforcement, even though it does not pass through the slab.

A3.1.2. Acceptable Conditions Due to Fractures or Cracks. Fractures or cracks not passing through the slab (See Figure 3.2, "Acceptable Fractures or Cracks,") provided they are:

- less than 0.01 in. wide - acceptable without repair, or
- in. wide or greater, regardless of length, and not extending beyond the first layer of steel reinforcement - repair with cementitious repair materials in accordance with the requirements of [DMS-4655](#).

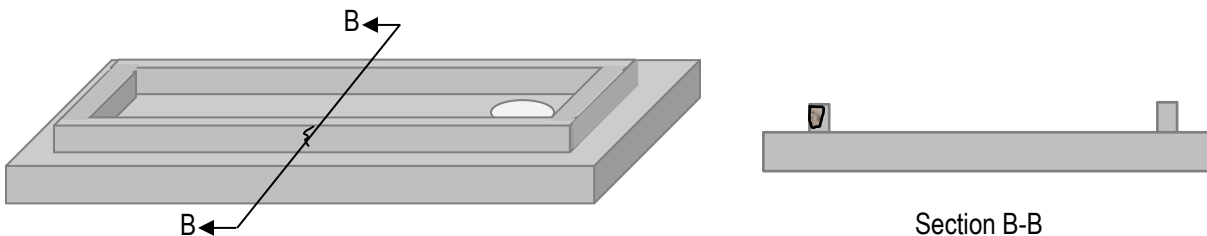


Figure A.3.2
Acceptable Fractures or Cracks

A3.2. Manufacturing Defects.

A3.2.1. Causes for Rejection Due to Manufacturing Defects. Any defect that indicates imperfect proportioning, mixing, or molding (See Figure A3.3, "Rejectable Manufacturing Defect,") including:

- offsets in form seams that would prevent adequate concrete cover over reinforcing steel,
- evidence of fresh concrete segregation, i.e. slick surface or sand streaking, or
- evidence of inadequate concrete cover for reinforcing steel.

A3.2.2. Causes for Rejection of Surface Defects Due to Honeycomb or Open Texture:

- honeycomb or open texture extending to steel reinforcement, that exceeds 18 in. in any direction, or
- defects with a depth greater than 2 in., and
- any less severe surface condition that affects the majority of the surface and could reduce the durability and service life of the member.

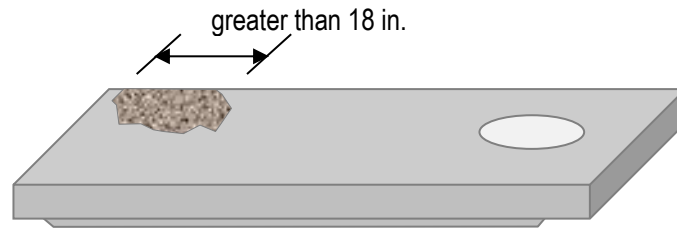


Figure A.3.3
Rejectable Manufacturing Defect

A3.2.3. Acceptable Conditions of Surface Defects Due to Honeycomb or Open Texture. Honeycomb or open texture surface conditions less severe than stated in Section A3.2.2., “Causes for Rejection Due to Manufacturing Defects,” are acceptable if properly repaired.

- **Areas with a maximum depth of 1 in.** Repair in accordance with Chapter 3, Section 1, of the Department’s *Concrete Repair Manual* with the exception that cementitious repair materials in accordance the requirements of [DMS-4655](#) may be used.
- **Areas with a depth greater than 1 in. and up to 2 in.** Repair in accordance with Chapter 3, Section 2, of the Department’s *Concrete Repair Manual* with the exception that batch concrete from the same mix design used in the member may be used.

A3.3. Concrete Spalls.

A3.3.1. Causes for Rejection Due to Spalls:

- more than two spalled areas in a section,
- spalls with a depth greater than 2 in., or
- any spall in the section extending to the reinforcing steel that exceeds 18 in. in any direction (See Figure A3.4, “Rejectable Spalls.”)

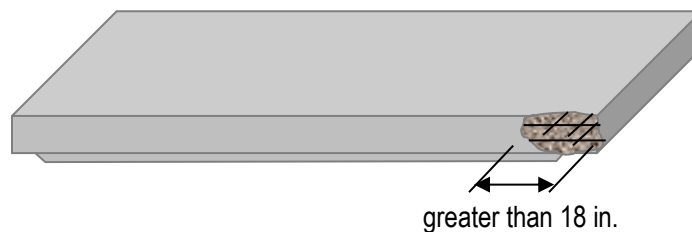


Figure A.3.4
Rejectable Spalls

A3.3.2. Acceptable Conditions Due to Spalls. Spalled areas not greater than 18 in. in any direction and extending to the reinforcing steel may be repaired per one of the following methods:

- **Areas with a maximum depth of 1 in.** Repair in accordance with Chapter 3, Section 1, of the Department’s *Concrete Repair Manual* with the exception that cementitious repair materials in accordance with the requirements of [DMS-4655](#) may be used.
- **Areas with a depth greater than 1 in. and up to 2 in.** Repair in accordance with Chapter 3 Section 2, or Chapter 3, Section 3, of the Department’s *Concrete Repair Manual*.

CHANGE ORDER PROPOSAL

April 15, 2024

DCN: Pulice-HCRMA-054

TO: Ramon Navarro, P.E., C.F.M.
Chief Construction Engineer
HC Regional Mobility Authority
203 W. Newcombe Avenue
Pharr, TX 78577

FROM: Rafael Carmona
Project Manager
Pulice Construction Inc.
7902 S. 10Th Street,
McAllen, TX 78503

RE: Project: CSJ 0039-02-063 – Change Order Additional Mobilizations – Drill Shafts Crew

SCOPE: The scope of this change is to compensate Contractor for additional mobilizations for the drill shaft subcontractor AH Beck to the jobsite.

CHANGE JUSTIFICATION: On December 13, 2023, Pulice provided notice to HCRMA that the drill shafts for the Floodway bridge had been completed and the remaining drill shafts for Dicker, San Juan Canal, Jackson, and Cage were on hold due to utility conflicts and impacts from HCID #2. This change order is to compensate Contractor for the additional mobilizations (one for Dicker/San Juan and one for Jackson/Cage) required to complete the remaining drill shafts once conflicts are resolved.

SPECIFICATIONS, PLANS OR OTHER DOCUMENTS REQUIRED:

CHANGE TO CONTRACT PRICE: We're requesting additional compensation for these changes as detailed below.

Item	Description	Unit	Unit Price	CO Qty	CO Amount
	Mobilization Drill Shaft Crew	EA	\$ 75,000.00	2.00	\$ 150,000.00
					\$ 150,000.00

CHANGE TO CONTRACT TIME: Pulice will evaluate according to HCRMA's specifications guidelines and will submit to the HCRMA a request for added time once it is known.

If you have any questions or need additional information, please contact me at (346) 324-0781.

Sincerely,



Rafael Carmona
Project Manager
Pulice Construction Inc.



Outlook

RE: Pending Items (HCID #2)-Toll 365 Project

From astambaugh@hcid2.org <astambaugh@hcid2.org>

Date Wed 11/29/2023 10:35 AM

To Ramon Navarro, IV, PE, CFM <ramon.navarro@hcrma.net>

Cc 'Sonny Hinojosa' <sh_hcid2@sbcglobal.net>; gp_hcid2@att.net <gp_hcid2@att.net>; Pilar Rodriguez, PE <prodriguez@hcrma.net>

Good morning,

We are available Tuesday, December 5th from 15:00 to 17:00.

If that date and time window works for HCRMA, let's plan on meeting at station 960+70 (farm outlet) at that time.

Best Regards,

Anthony Stambaugh
General Manager
Hidalgo County Irrigation District No. 2
P.O. Box 6
San Juan, Texas 78589
(956) 787-1422

From: Ramon Navarro, IV, PE, CFM <ramon.navarro@hcrma.net>

Sent: Tuesday, November 28, 2023 1:51 PM

To: astambaugh@hcid2.org

Cc: 'Sonny Hinojosa' <sh_hcid2@sbcglobal.net>; gp_hcid2@att.net; Pilar Rodriguez, PE <prodriguez@hcrma.net>

Subject: RE: Pending Items (HCID #2)-Toll 365 Project

Please acknowledge availability the week of December 4th, so we may schedule meeting to address each specific item.

From: astambaugh@hcid2.org <astambaugh@hcid2.org>

Sent: Tuesday, November 28, 2023 12:22 PM

To: Pilar Rodriguez, PE <prodriguez@hcrma.net>

Cc: Ramon Navarro, IV, PE, CFM <ramon.navarro@hcrma.net>; 'Sonny Hinojosa' <sh_hcid2@sbcglobal.net>; gp_hcid2@att.net

Subject: Pending Items (HCID #2)-Toll 365 Project

Good afternoon Mr. Rodriguez,

I wanted to provide an update to the HCRMA regarding pending items we have with the Toll 365 project within our District's boundaries.

- After the September 7th, 2023 meeting, our Board provided the clear directive of no additional projects may be worked on until the following were resolved: Namely, Station 960+70, 970+36, 1,000+72, and the Anaya drain, referred to as “aforementioned issues” throughout the rest of this email.
 - Specifically, the following items are pending at each respective station:
 - 960:
 - The well structure was rejected due to improper construction. This structure must be rebuilt.
 - We need visual verification of the correct orientation of all spacers.
 - We need visual verification of the use of Class V casing throughout the ROW.
 - Farm outlet must be replaced with a single piece.
 - In addition, after performing measurements, we found the farm outlet was installed 10.0” higher than natural ground. This restricts our ability to deliver water to this farm and was not constructed per plans.
 - 970:
 - We need visual verification of the use of gravel bedding placed under the casing, as per plans.
 - Farm outlet must be replaced with a single piece.
 - 1,000+72:
 - This station has been resolved.
 - Anaya Drain:
 - There is an inlet south of the previously broken drain pipe, that needs to be cleaned out. It is full of dirt clods from the project area.
 - These issues began on August 4th, 2023. It has been approximately 116 days, and these issues have still not been resolved.

- HCID No. 2 did authorize the installation of casing that has a non-direct impact. The pipe and tie ins will follow after scheduled with the District and after the aforementioned items were resolved and inspected. No work to the trunk line is authorized.
- We have raised concern with no response regarding the proposed use of ASTM C361 pipe referenced in Item 476 on sheet 1195 to be jack and bored, as this pipe is not made for jacking.
 - We also commented on how gravel bedding can be installed when the pipe is proposed to be bored.
- We have also raised concern of the pipe having hydrostatic testing performed on each one prior to shipment from the manufacturer's plant. To date, we have not witnessed any such testing.
 - This concern was exacerbated when we received an email from Rafael Carmona on 11/22/2023 at 16:51, advising HCRMA they were going to start working on this location yesterday (11/27/2023). It is my understanding no work has commenced.
 - However, we did want to stress, we will not authorize the use of this pipe/project, as the pipe has not been hydrostatically tested, and the aforementioned issues have not been resolved.
- Also, when installation occurs, each joint must be field tested using the Charne's Air Loc Joint Tester apparatus, or equal.
- We will not accept any change to our flow line that has been proposed under RFI107.

If/When these aforementioned stations get resolved and inspected, the District will allow one project at a time to be worked on. This is to ensure there are no disturbances to our ability to perform our duties to the patrons of the District.

Best Regards,

Anthony Stambaugh
General Manager
Hidalgo County Irrigation District No. 2
P.O. Box 6
San Juan, Texas 78589
(956) 787-1422

The information transmitted by this email is intended only for the person or entity to which it is addressed. This email may contain proprietary, confidential, and/or privileged material. If you received this message in error, do not use or rely upon it. Instead, please inform the sender and then delete it. Thank you.

PERMIT

Hidalgo County Irrigation District No. 2 (DISTRICT), for and in consideration of the receipt of fees and other agreements contained herein, does hereby grant a Permit to

Hidalgo County Regional Mobility Authority [HCRMA], (PERMITTEE)

to cross a District facility at (lot, block and subdivision; and nearest street and attach a drawing/exhibit): Kelly Pharr Subdivison, Vol. 3, Page 133, H.C.D.R. [S. Monica Avenue/Pecina]

With (type of utility) 30" Steel Casing for 18" PVC Pharr Waterline Lot 285 KP,

According to the following specification:

All, utilities, pipelines, cables, etc. will cross under the District's irrigation lines leaving a minimum clearance of 24 inches between the District's pipeline and the utility and allowing for maintenance and repair excavation of at least 10 feet either side of the center line of the irrigation line to the depth of the bottom of the irrigation line.

Borings under concrete lined canals shall be a minimum of 5 feet between the bottom of the canal lining and the top of the casing. All borings under concrete lined canals will require the installation of an impermeable liner in the canal 100 feet upstream and downstream from the centerline of the bore. Borings under earthen canals, except the Main Canal, should be a minimum of 7 feet between the bottom of the canal and the top of the casing. The Main Canal should be a minimum of 20 feet between the bottom of the canal and the top of the casing. Borings will be for the entire width of the District's right-of-way. Bore pits will not be allowed within the District's right-of-way. No void between bore hole and casing or bore hole and utility is allowed. All voids must be backfilled with flowable fill.

All utilities, pipelines, cables, etc. will cross under the District's drainage ditches leaving a minimum clearance of 5 feet between the top of the installation and the bottom of the ditch. The location of the installation should be permanently marked on both sides of the drainage ditch R.O.W.

Roadway for pedestrian and vehicle use constructed in accordance with the attached specifications.

All hazardous utilities shall be marked by a permanent sign to indicate type of utility, contact numbers, and location of said facility.

All installations crossing the District's irrigation lines or installed within the District's easements or rights-of-way must be inspected by a representative of the District prior to back fill.

All work must be scheduled with an inspector of the District to commence during normal working hours of the District.

An inspector of the District must be contacted at least 72 hours prior to the commencement of any work within the District's easements or rights-of-ways.

PERMITTEE shall ensure a copy of the approved permit be on site for inspection of any representative of the District.

All back fill shall be tamped in 6-inch layers to a condition comparable to adjacent, undisturbed material. PERMITTEE shall correct any future settlement in area of excavation. An inspector of the District must be present during any back-fill work.

The lowest conductor of all overhead power lines will clear the surface of the dirt road on the canal berm by a height of no less than 48 feet at all times and at least two signs will be placed in conspicuous places along the canal or drainage ditch warning of the existence of the overhead line.

The right-of-way must be cleared of trash and excess dirt and left in a neat, clean condition upon completion of this installation.

The issuance of this Permit grants PERMITTEE permission to work within District right-of-way for the purpose of the Permit, but does not guarantee PERMITTEE a route free of obligation such as utility lines, whether privately or commercially owned. In order to prevent damage to these utilities, it will be the PERMITTEE'S responsibility to contact the various utility companies or private owners for the exact location of any facilities that may be in the path of PERMITTEE'S proposed work.

District shall not be liable or responsible for, and shall be saved and held harmless by PERMITTEE, from and against any and all claims and damages of every kind, for injury to or death of any person or persons and for damages to or loss of property, personal or real, arising out of or attributed, directly or indirectly, to the operations of PERMITTEE under the Permit.

PERMITTEE agrees to reimburse District any expense incurred by District relating to cost of supervision of any project or work by PERMITTEE hereunder, and other reasonable out-of-pocket expenses incurred by District in connection with granting and supervision of this Permit.

In the event District requires PERMITTEE'S utility to be relocated or adjusted in the future, PERMITTEE agrees to relocate or adjust same at no cost or expense to the District.

PERMITTEE, by the acceptance hereof, agrees to exercise its rights under this Permit so that there are no interruptions of water deliveries by District to its customers.

In the event PERMITTEE damages any of District's facilities, including an existing underground pipeline, in the exercising of its rights hereunder, it agrees to immediately contact DISTRICT and arrange for the repair or replacement necessary to place the District's

facility in a condition as it was prior to such damage and in accordance with plans and specifications approved by DISTRICT, or at District's option, it will repair such damages at PERMITTEE'S expense. In such latter instance, PERMITTEE shall pay DISTRICT for such repairs within ten (10) days of receipt of billing for such repairs.

This Permit shall expire and terminate 365 calendar days following cessation of use of the premises by PERMITTEE for the purposes provided for herein. Otherwise, this Permit shall expire 40 years following the effective date of this Permit.

In the event PERMITTEE does not comply with the provisions of this permit, the District may revoke this permit and dismiss/reject future permits until all provisions have been accomplished by PERMITTEE and verified by the District.

This Permit shall become effective: 12 / 18 / 2024.

CONTRACTOR/SUBCONTRACTOR
(PRINT/ TYPE NAME):

PRUCE Construction LLC.

IF ENTITY, PRINT NAME:

TITLE:

RAFAEL CALMONA

ADDRESS:

Arizona

PHONE NUMBER:

346 - 324 - 0781

EMAIL ADDRESS:

RA.CALMONA@PRUCE.COM

PERMITTEE (PRINT/ TYPE NAME):

Hidalgo County Regional Mobility Authority

IF ENTITY, PRINT SIGNATORY NAME:

Ramon Navarro IV

TITLE:

Chief Construction Engineer

ADDRESS:

P.O. Box 1766

<u>Pharr</u>	<u>TX</u>	<u>78577</u>
--------------	-----------	--------------

PHONE NUMBER:

956.402.4763

EMAIL ADDRESS:

Ramon.Navarro@hcrma.net

SIGNATURE:

Ramon Navarro IV

ACCEPTED

BY: 

Anthony Stambaugh, GENERAL MANAGER

O.B.
PT. 5
4.56'
1.2'
4.88'
1.86'

LEVEE
HIDALGO COUNTY DRAINAGE DISTRICT NO. 2
VOL. 383, PGS. 801-802, H.C.D.R.
VOL. 478, PG. 48, H.C.D.R.
VOL. 1350, PG. 48, H.C.D.R.

8 Tonne Limited Partnership
847617, H.C.D.R.1

40
P-5

46
P-3

P.O.B. PARCEL
46 PT. 3
STA. 1084+08.84'
150.00' RT.
N 16577596.12
E 1084756.10

P.O.C.
PARCEL 46 P3

US 281
(R.O.W. VARIES)

P.O.B. PARCEL
49 PT. 1
STA. 1088+12.10'
150.00' ST.
N 16577530.36
E 1085153.83

Bertha Centu Canales
28.34 Acres (Tract)
Vol. 128, PG. 87, H.C.D.R.
Oct. 23, 1970

DA: 10° 22' 22"
R: 3850.00'
T: 349.46'
AL: 697.00'
CL: 696.05'
CB: N 75° 1' 54" W

PI STATION
DELTA
DEGREE OF CURVE
TANGENT
LENGTH
RADIUS
PC STATION
PT STATION

= 1106+60.48
= 49° 31' 13" RT
= 1° 25' 57"
= 1,844.89'
= 3,457.17'
= 4,000.00'
= 1088+15.59
= 1122+72.77

15' UTILITY EASEMENT

LOT 47 LOT 46
LOT 45 LOT 44
LOT 43 LOT 42
LOT 41

SOUTH CREEK PHASE II
VOL. 51, PG. 102, H.C.D.R.

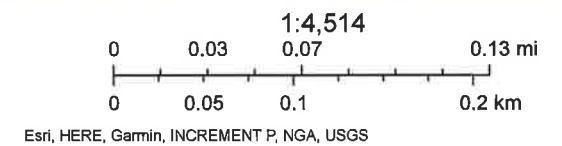
LOT 293

LOT 292

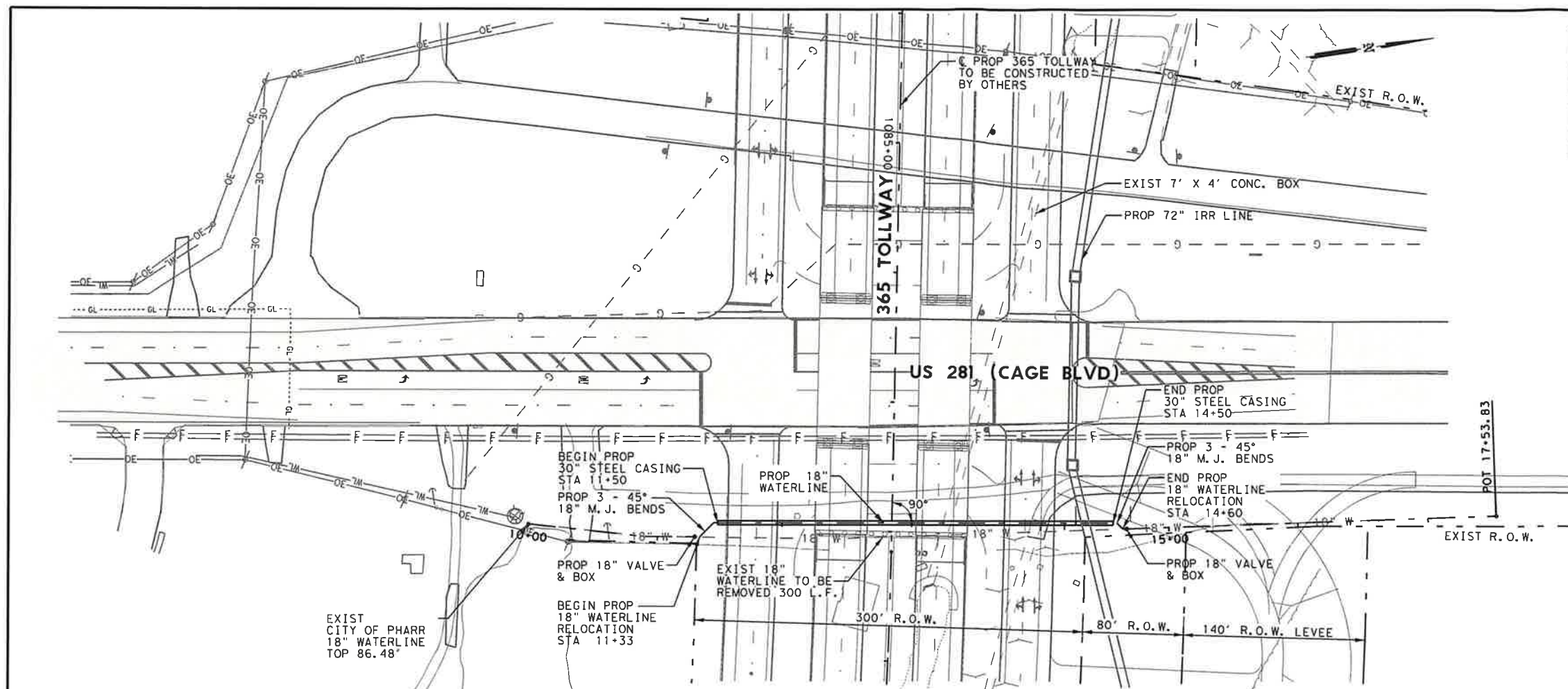
KELLY PHARR SUBDIVISION
VOL. 3, PAGE 133, H.C.D.R.



September 24, 2024



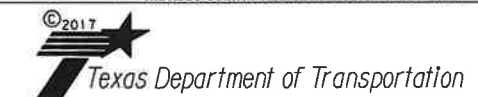
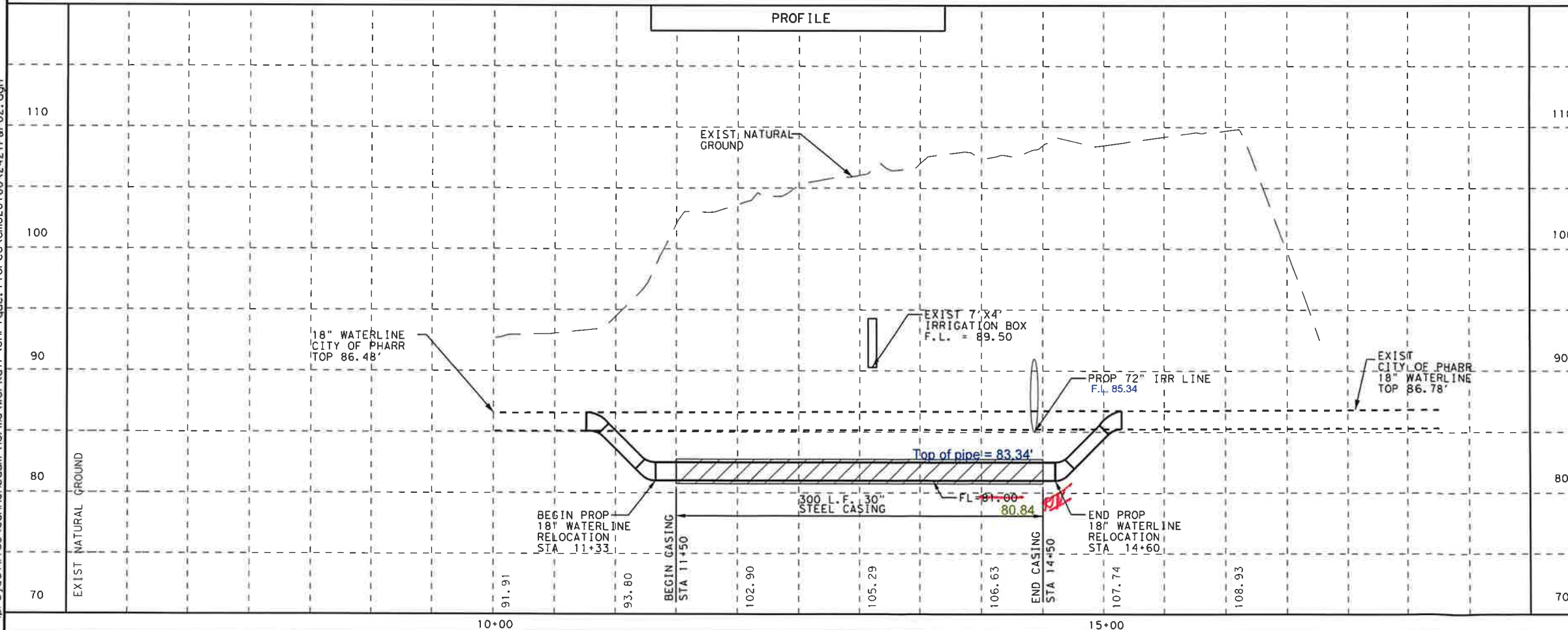
9/25/2017 11:31:59 AM
c:\project\ise\dannenbaum-hcrma\workdir\enr\ique.flores\dms28700\2421P8P02.dgn



SHEET SUMMARY			
ITEM	DESCRIPTION	UNIT	QTY
402	TRENCH EXCAVATION PROTECTION	LF	300
5002	18" VALVE AND BOX	EA	2
5002	18" PVC WATERLINE DR 18 C900	LF	360
476	JACK BORE 30" STEEL CASING	LF	300
5002	18" 45° MJ BEND	EA	6
496	REMOVE STR PIPE	LF	300

LEGEND

---	CL OF ALIGNMENT
---	R.O.W.
---	EDGE OF ROAD/PAVEMENT
WL	WATERLINE
---	EXIST CLOSED BOARDED FENCE
SS	EXIST SANITARY SEWER LINE
GL	EXIST GAS LINE
UT	EXIST UNDERGROUND TELEPHONE LINE
FM	EXIST FORCE MAIN LINE
F	EXIST FIBER OPTIC LINE
OE	EXIST OVERHEAD ELECTRICAL LINE
⊙	EXIST FIRE HYDRANT
+	EXIST SIGN
✓	EXIST GUY WIRE
⊙	EXIST UTILITY POLE



PROGRAM MANAGEMENT CONSULTANT
DANNENBAUM
ENGINEERING CORPORATION
T.B.P.E. FIRM REGISTRATION #392
1109 NOLANA LOOP, STE 208 MCALLEN, TX 78504 (956) 682-3677

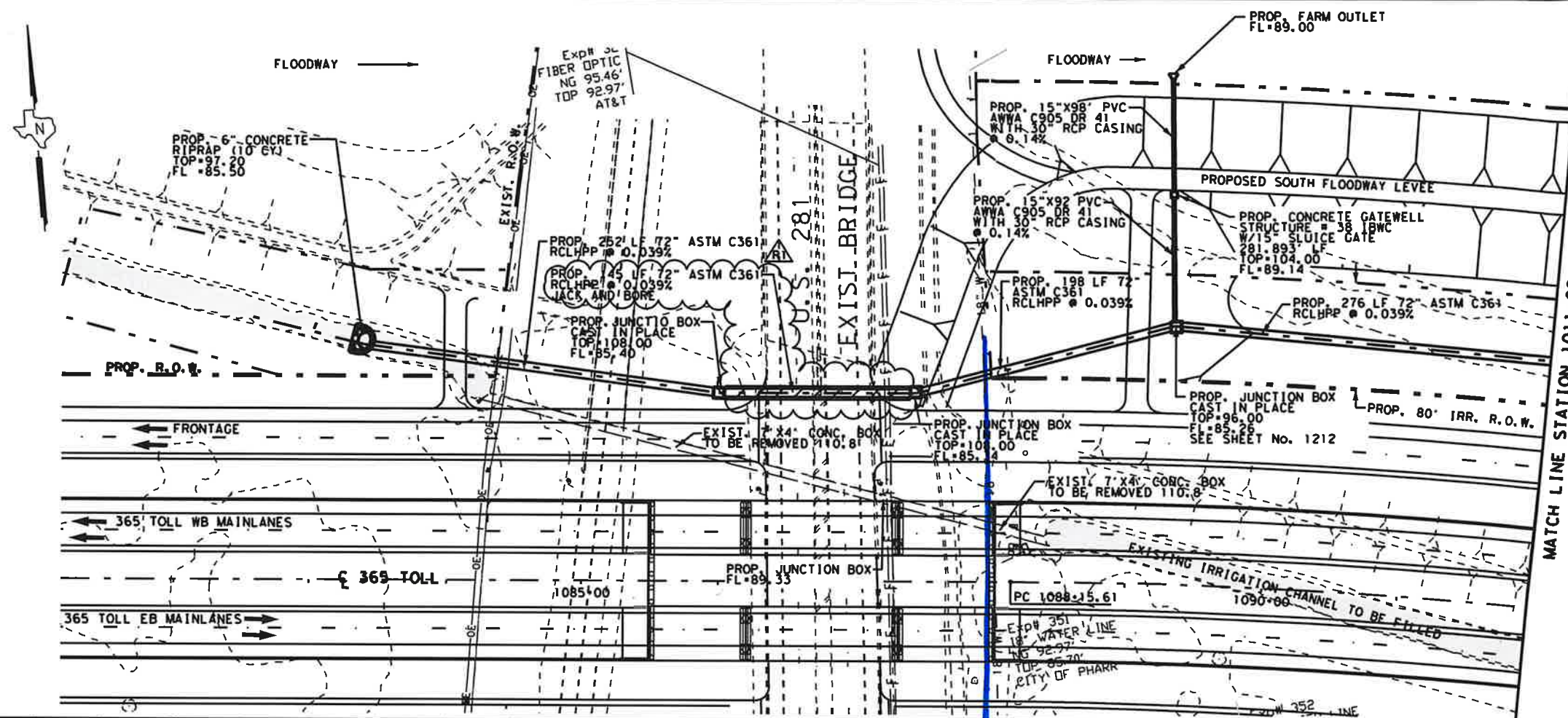


365 TOLL
CAGE BLVD (US 281)
18" WATERLINE
RELOCATION
STA. 1087+93

SCALE:		SHEET 1 OF 1	
HOR: 1" = 100'			
VER: 1" = 10'			
CHK'D BY	CONT	SECT	JOB
0921	02	368	365 TOLL
CHK'D BY	DIST	COUNTY	SHEET NO.
TRH	PHR	HIDALGO	1227
CHK TRH			

This sheet was not changed as part of the VECP design process and remains in its original IFC state.

DATE: 9/17/2024 9:20:05 AM
FILE: c:\project\wise\donnerbaum-hcrma\workdir\copy of michael.meroney\dms78552\07_SH_365_0031_IRR_P&P.dgn



SHEET SUMMARY			
ITEM	DESCRIPTION	UNIT	QUANTITY
400	STRUCTURE EXCAV (SPECIAL) 112" GRAVEL	CY	228
432	CONCRETE RIP RAP (6IN)	CY	10
465	JUNCTION BOX CAST IN PLACE	EA	3
466	CONCRETE HEADWALL (CH-FW-01) 15 IN	EA	1
HCRMA 08	CONCRETE GATE WELL STRUCTURE	EA	1
4021	RC LOW HEAD PRESSUR PIPE 72 in	LF	871
1008	PRESSUR IRR (PVC) PIPE 15"	LF	190
464	30" RCP CL IIII	LF	190
1007	IRR GATE (115") (SLUICE)	EA	1
476	JACK BORE OR TUN PIPE (72") (RC) (CL VI)	LF	100
1007	IRR VALVE (112") (FARM OUTLET)	EA	1

LEGEND:

- ⊗ NON-PAY, SUBSIDIARY TO PERTINENT BID ITEMS.
- ⊙ TO BE REMOVED UNDER ITEM 496. INCLUDES PAYMENT FOR REMOVAL OF ALL APPURTENANCES.
- ⊖ NON-PAY ITEM. FOR CONTRACTORS' INFORMATION ONLY.
- ⊕ THE CONTRACTOR SHALL CONFIRM THAT THE TOP ELEVATION ON THE PROPOSED STANDPIPE IS AT THE SAME ELEVATION AS THE EXISTING STANDPIPE

NOTES:

- THE CONTRACTOR WILL COORDINATE WITH H.C.I.D. NO. 2 48 HOURS PRIOR TO COMMENCING ANY WORK AND PROVIDE SEQUENCE OF CONSTRUCTION STRUCTURES. SONNY HINOJOSA - (956) 787-1422. SEE SHEET No. 1224C FOR CONC. COLLAR DETAILS.
- THE CONTRACTOR SHALL CONFIRM THAT CONFLICTS WITH EXISTING UTILITIES HAVE BEEN RESOLVED IN ADVANCE OF CONSTRUCTION. DAMAGES CAUSED BY OR TO EXISTING UTILITIES ARE THE RESPONSIBILITY OF THE CONTRACTOR.
- ALL PVC ELBOWS, AND CONNECTIONS SHALL BE SUBSIDIARY TO PERTINENT BID ITEMS.
- PROPOSED INSTALLATION AND REMOVAL OF BERMS AND PUMPING WATER WILL BE SUBSIDIARY TO ITEM 464.

REVISED 09-17-24
NON-CLOUDED AREAS WILL BE
THE RESPONSIBILITY OF THE
ENGINEER OF RECORD.

HDR ENGINEERING INC.
F-754



S&B INFRASTRUCTURE, LTD.
TEXAS BOARD OF PROFESSIONAL ENGINEERS #: F-1582

**PROPOSED IRRIGATION
STRUCTURE
AT U.S. 281 (CAGE BLVD)
STA 1001+11 TO STA 1011+00**

SCALE:
HORIZ 1" = 100'
VERT 1" = 10'

SHEET 1 OF 3

CONTRACT	SECTION	JOB	HIGHWAY
0921	02	368	365 TOLL
DIST	COUNTY	SHEET NO.	
PHR	HIDALGO	1195	

CHECKED: CV	FED. RD. DIST. NO.	STATE	FEDERAL AID PROJECT NO.	S.H. 365	DRAWN: PT	TEXAS	COUNTY	ROW CONTROL	SECTION	JOB No.	SHEET	CHECKED: PHARR	HIDALGO	3627	01	001	3 of 31

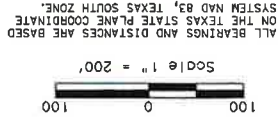
SH 365 SEG. 1
RIGHT OF WAY MAP



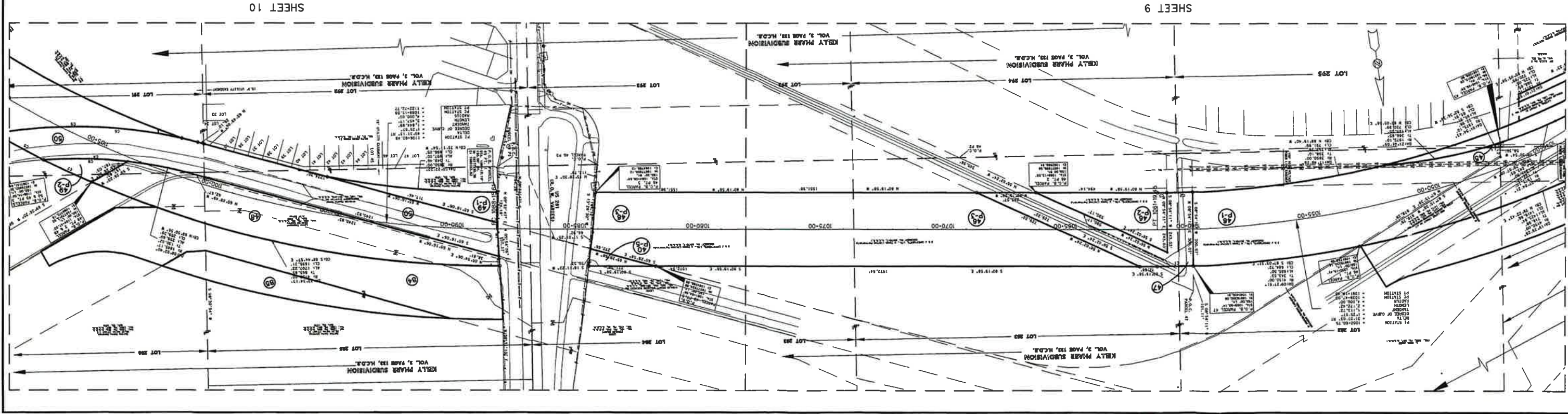
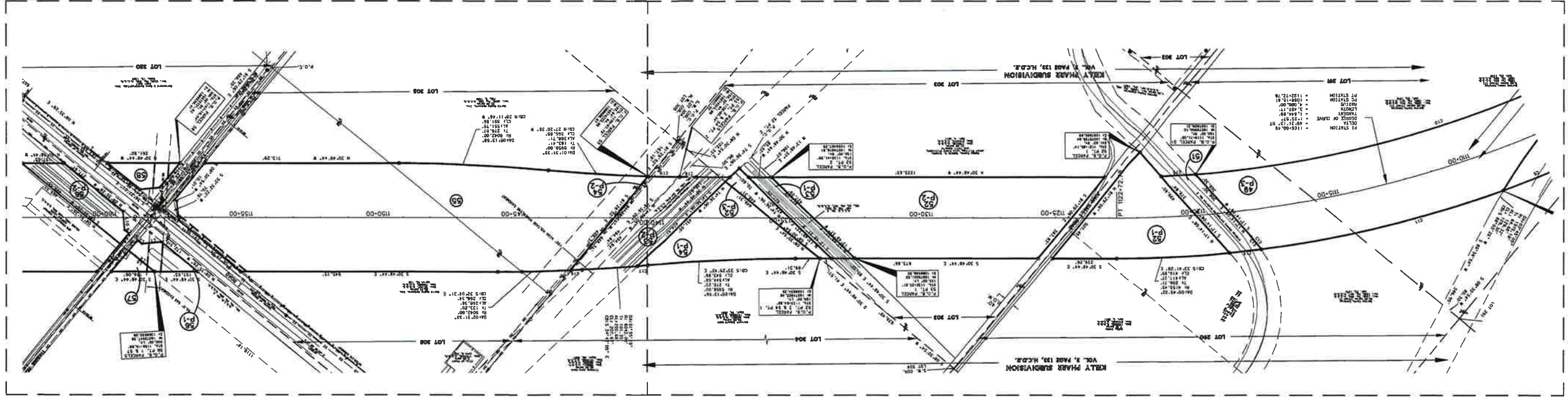
QUINTANILLA, HEADLEY AND ASSOCIATES, INC.
CONSULTING ENGINEERS • LAND SURVEYORS
124 E. STUBBS ST.
EDINBURGH, TEXAS 76039
PHONE 956-351-6480
FAX 956-351-0527

NOTES:

1. ALL BEARING AND DISTANCES ARE BASED ON THE TEXAS SOUTH COORDINATE SYSTEM (NAD 83), TEXAS SOUTH ZONE.
2. ALL DISTANCES AND COORDINATE SHOWN ARE SURFACE AND MAY BE CONVERTED TO GRID BY MULTIPLYING BY A COMBINED FACTOR OF 0.999960
3. ALL CORNERS ARE SET WITH NO. 5 REBAR WITH ALUMINUM DISK UNLESS OTHERWISE NOTED.



SHEET 13



SHEET 10

SHEET 9

