### HIDALGO COUNTY REGIONAL MOBILITY AUTHORITY

### **AGENDA RECOMMENDATION FORM**

PLANN	D OF DIRECTORSXAGENDA ITEM1AIING COMMITTEEDATE SUBMITTED5/17/2023CE COMMITTEEMEETING DATE5/23/2023
TECHN	IICAL COMMITTEE
1.	Agenda Item: Report on Program Manager Activity
2.	Nature of Request: (Brief Overview) Attachments: X YesNo
	Report on 365 Tollway Project Construction Activities.
3.	Policy Implication: <u>Board Policy, Local Government Code, Texas Government Code, Texas Transportation Code, TxDOT Policy</u>
4.	Budgeted:YesNo _X_N/A
5.	Staff Recommendation: Report only.
6.	Program Manager's Recommendation:ApprovedDisapprovedX_None
7.	Planning Committee's Recommendation:ApprovedDisapprovedX_None
8.	Board Attorney's Recommendation:ApprovedDisapprovedX_None
9.	Chief Auditor's Recommendation:ApprovedDisapprovedX_None
10.	Chief Financial Officer's Recommendation:ApprovedDisapprovedX_None
11.	Chief Development Engineer's Recommendation:ApprovedDisapprovedX_None
12.	Chief Construction Engineer's Recommendation: X ApprovedDisapprovedNone
13.	Executive Director's Recommendation:ApprovedDisapprovedX_None



# BOARD OF DIRECTORS MEETING FOR MAY 2023

HCRMA Board of Directors

S. David Deanda, Jr., Chairman
Forrest Runnels, Vice-Chairman
Ezequiel Reyna, Jr., Secretary/Treasurer
Francisco "Frank" Pardo, Director
Juan Carlos Del Angel, Director
Gabriel Kamel, Director

HCRMA Administrative Staff
Pilar Rodriguez, PE, Executive Director
Ramon Navarro IV, PE, CFM, Chief Constr. Eng.
Celia Gaona, CIA, Chief Auditor/Compliance Ofcr.
Ascencion Alonzo, Chief Financial Ofcr.

General Engineering Consultant
HDR ENGINEERING, INC.

www.hcrma.net

Report on HCRMA Program Management Activity

Chief Construction Engineer – Ramon Navarro IV, PE, CFM



## **OVERVIEW**

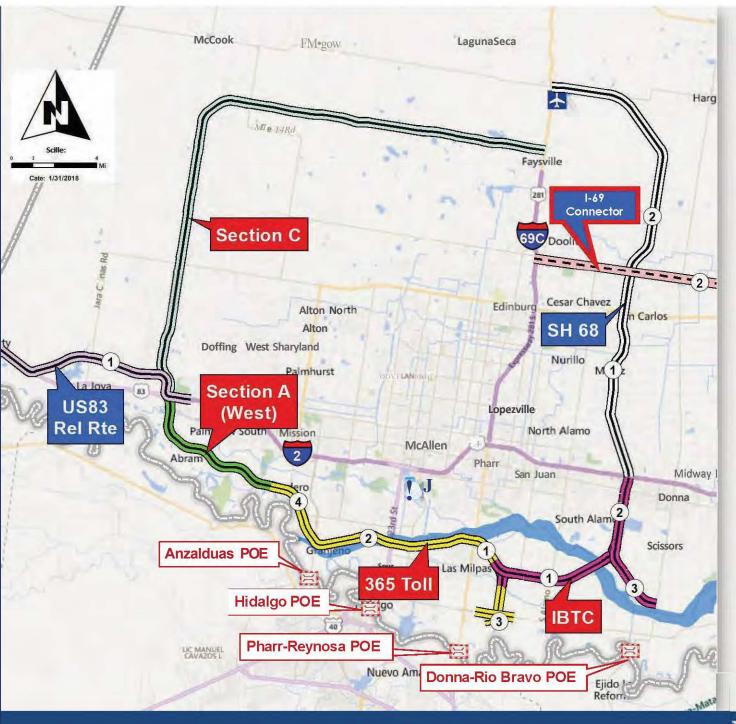
- □ 365 TOLL Project Overview
- **□ IBTC Project Overview**
- □ Overweight Permit Summary
- □ Construction Economics Update

### **MISSION STATEMENT:**

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



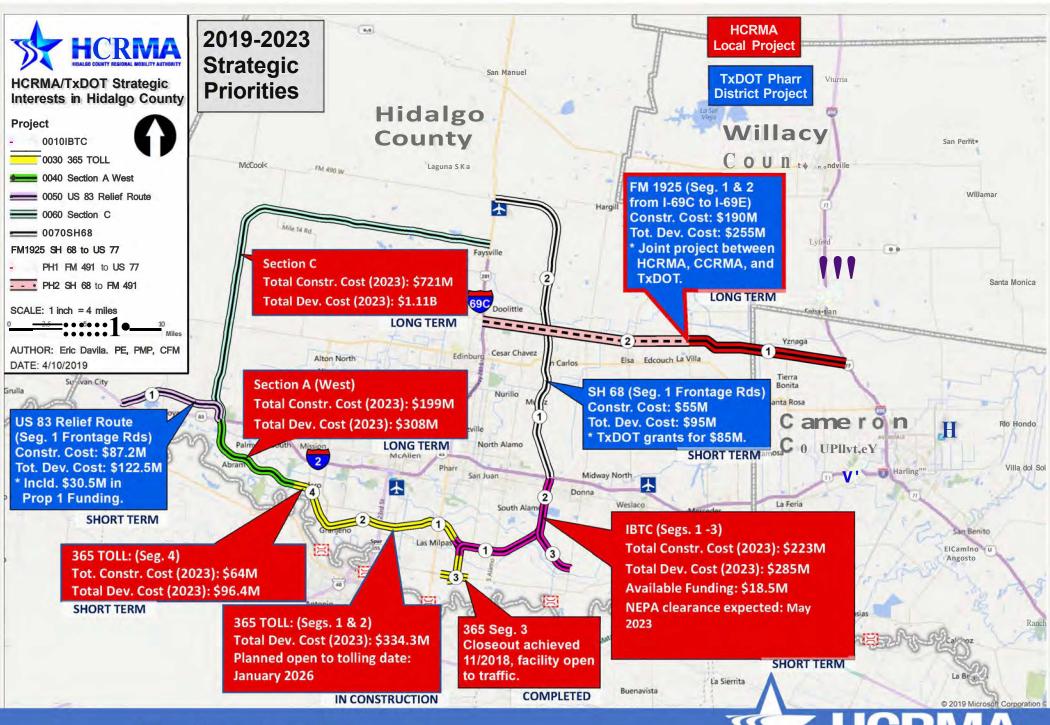


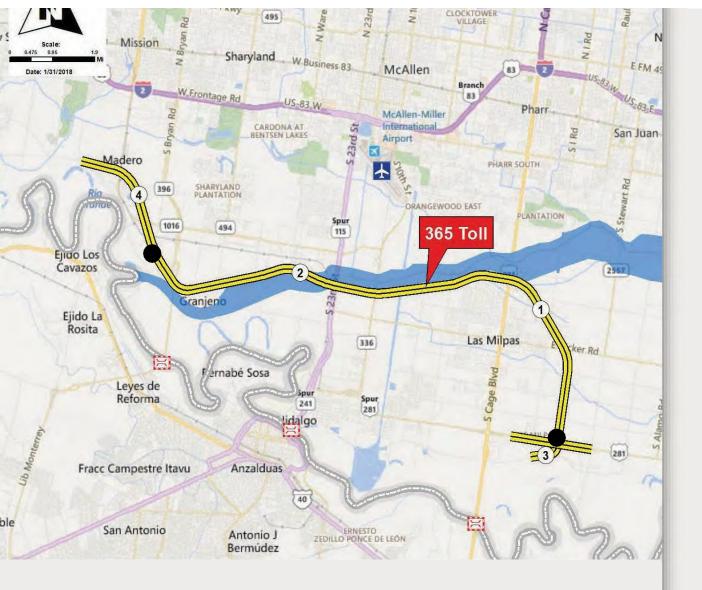


# , HCRMA STRATEGIC PLAN

DEVELOP THE
INFRASTRUCTURE TO
SERVE A POPULATION
OF APPROXIMATELY
800,000 RESIDENTS
AND
5 INTERNATIONAL
PORTS OF ENTRY







[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



### **MAJOR MILESTONES:**

NEPA CLEARANCE 07/03/2015

100% ROW ACQUIRED

PH 1: 365 SEG. 3 -LET: 08/2015 COMPLETED

PH 2: 365 TOLL SEGS. 1 & 2 -OPEN: 01/2026





# 365 TOLLWAY COLLECTION SYSTEM INSTALLATION, INTEGRATION, and MAINTENANCE PROJECT

**SEPTEMBER 8, 2022 Request for Proposals was released.** 

OCTOBER 3, 2022 Mandatory Pre-bid meeting was conducted with In-Person or Virtual Attendance option

DECEMBER 9, 2022 Five proposals were received for the 365 Toll Collection System Installation, Integration, and Maintenance Project.

DECEMBER 16, 2022 Compliance reviews were conducted of all electronic bids;

FEBRUARY 6, 2023 Evaluation committee [HCRMA staff and HDR [GEC]] thoroughly reviewed proposals, conducted oral presentations and in accordance with the RFP's two- step scoring process

FEBRUARY 14, 2023 Proposal bid prices opened, evaluated, scored by evaluation committee

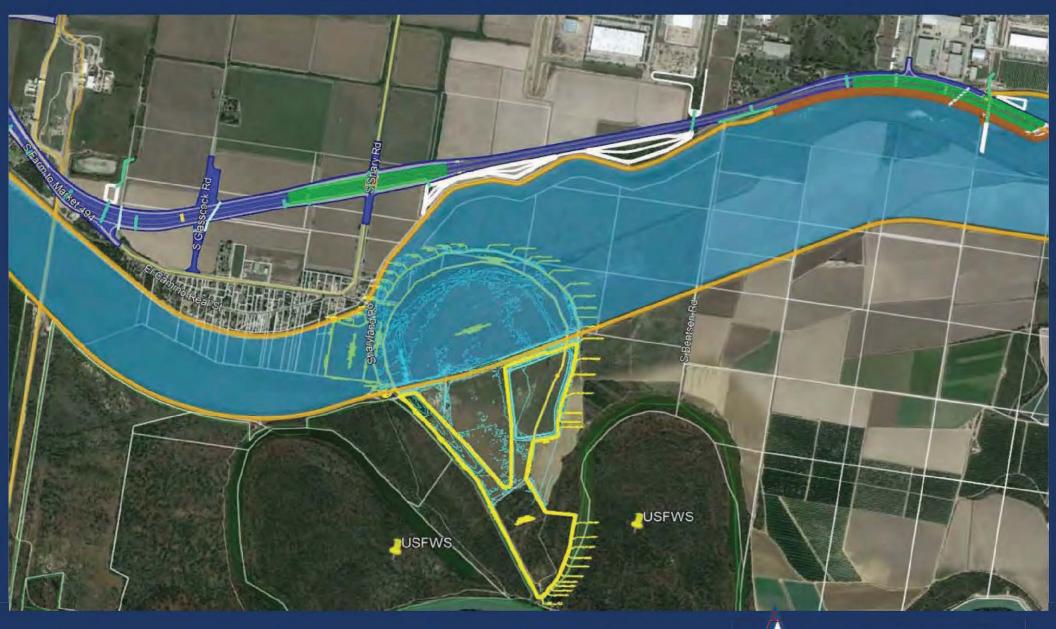
FEBRUARY 28, 2023 First executive briefing

MARCH 13, 2023 Second executive briefing

MARCH 14, 2023 Negotiation of contract terms, conditions, & BAFO

MARCH 28, 2023 Award of contract to SICE, Inc. for \$13,980,669 with a score of 905

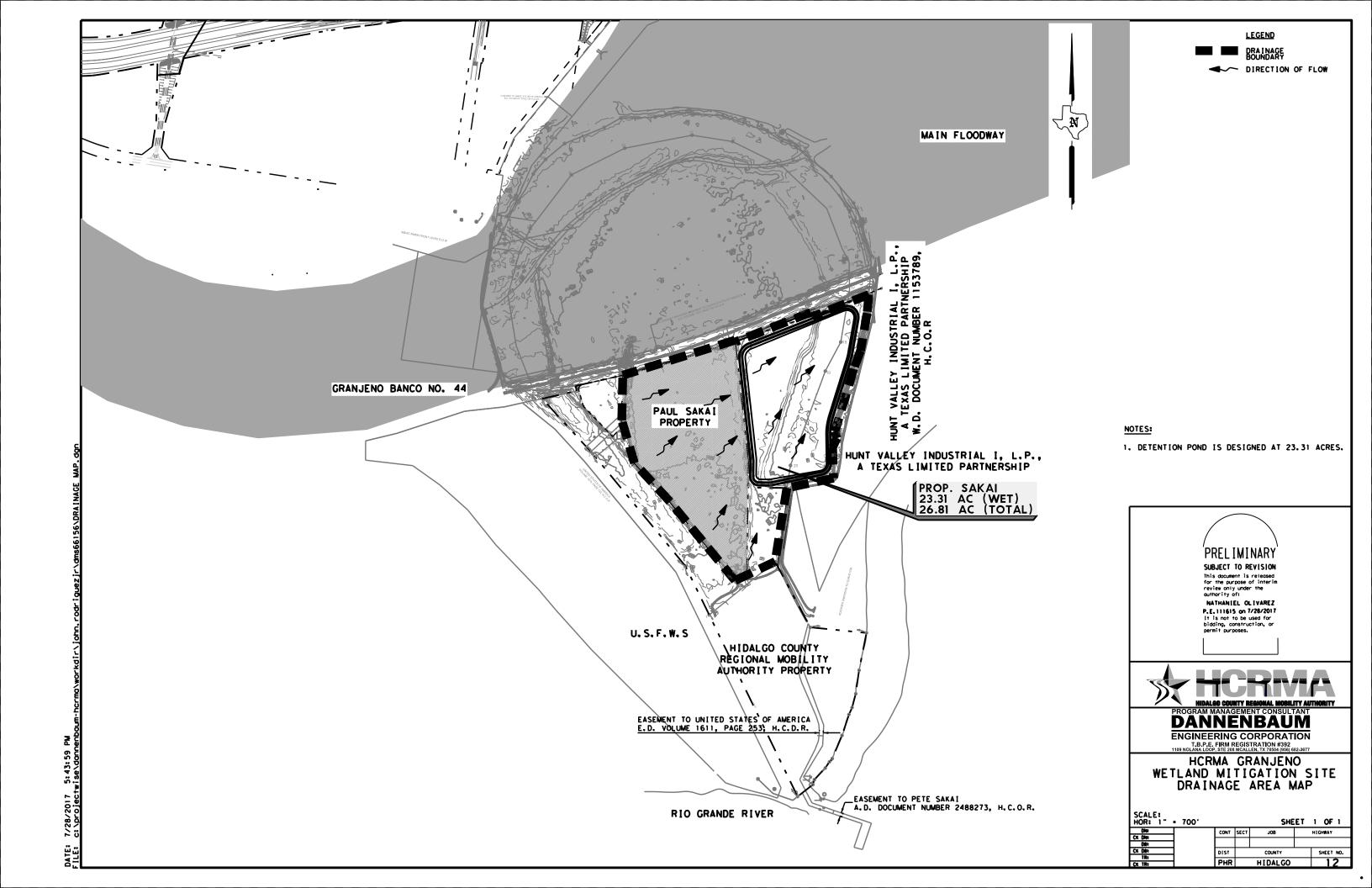
## WETLAND MITIGATION SITE

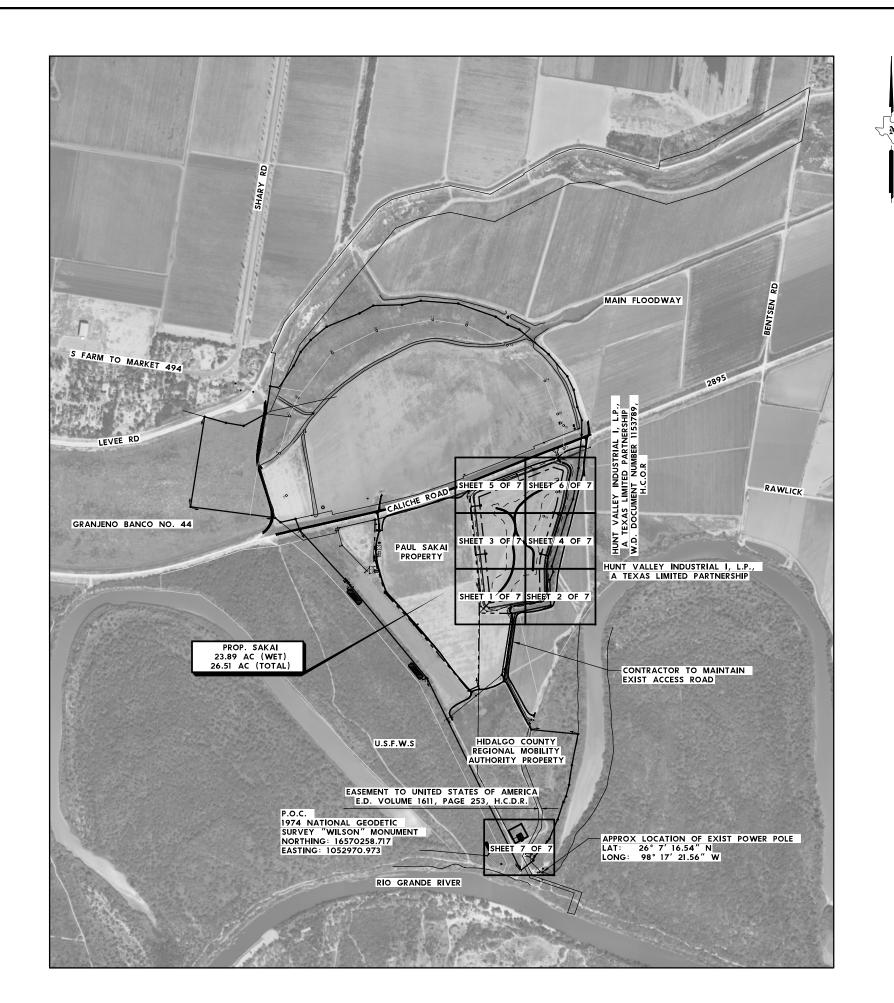


<u>www.hcrma.net</u>



THORMA





#### 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. ELEVATION DATUM PER NAVD 88 (GEOID 2003).

BENCHMARK PROVIDED BY: MELDEN & HUNT INC. 115 W. MCINTYRE EDINBURG, TX 78541 PH: (956)381-0981 FAX: (956)381-1839

#### REFERENCE:

PLAT SHOWING
TRACT 2 BEGIN 80.201 ACRES CONSISTING OF
38.746 ACRES BEING OUT OF LAS RUELAS BANCO
NO. 141 AND 31.964 ACRES BEING THE ACCRETION
FROM THE RIO GRANDE RIVER 9.491 ACRES OUT OF
LOTS 5, 5A, 6, 16, 7, AND TRACT D
AMENDED MAP OF JOHN H. SHARY SUBDIVISION
VOLUME 1, PAGES 42-43, H.C.M.R.
CITY OF MISSION
HIDALGO COUNTY, TEXAS







HDR Firm Registration No. F-754 4828 Loop Central Drive, Suite 800 Houston, Texas 77081-2220 713.622.9264

HCRMA GRANJENO WETLAND MITIGATION SITE PROJECT LAYOUT

SCALE: 1"=1000'

SHEET 1 OF 1



AREA = 0.44 AC PSS-PFO-AREA-1 AREA = 3.08 AC PSS-PFO-AREA-2 AREA = 3.32 AC PSS-PFO-AREA-3 AREA = 1.79 AC PSS-PFO-AREA-4 AREA = 2.12 AC PSS-PFO-AREA-5 AREA = 2.27 AC PEM-AREA-1 AREA = 1.02 AC PEM-AREA-2 AREA = 1.29 AC PEM-AREA-3 AREA = 0.86 AC PEM-AREA-4 AREA = 1.41 AC

THESE DOCUMENTS ARE FOR INTERIM REVIEW AND NOT FOR CONSTRUCTION, BIDDING OR PERMIT PURPOSES.

RESPONSIBLE ENGINEER: HDR ENGINEERING, INC. TBPE FIRM REGISTRATION NO E<u>-754</u> HARINI ARJUN, PE TEXAS LICENSE NO. 112663

5/9/2022

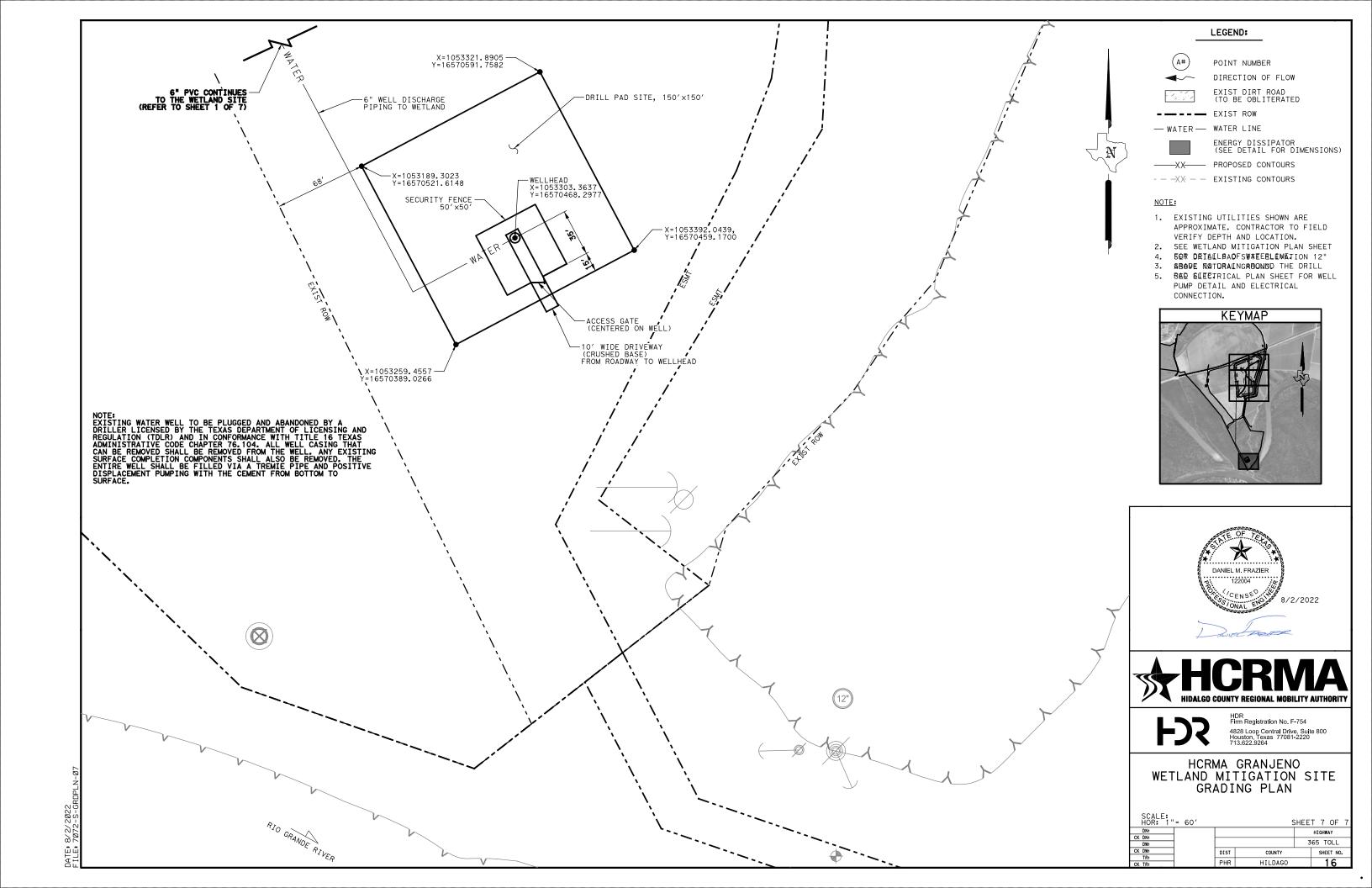


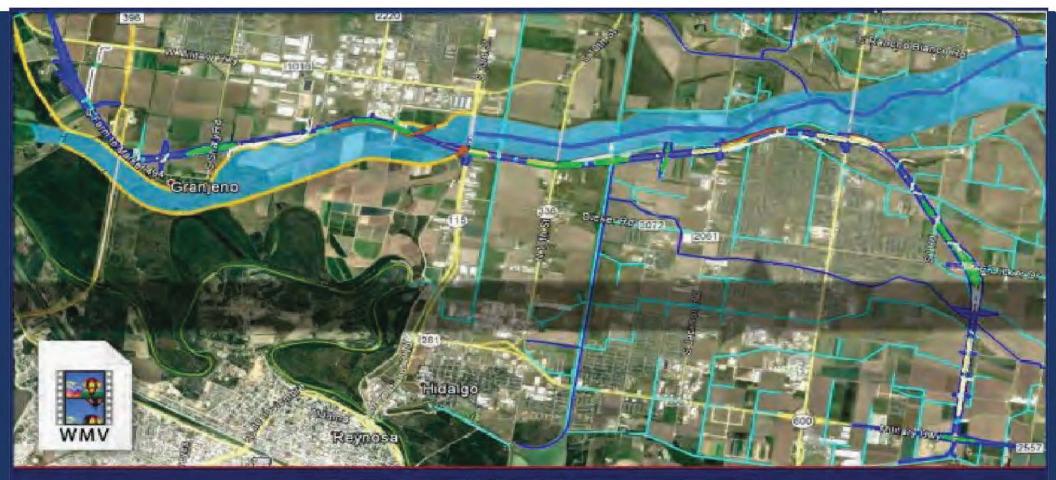


HDR Firm Registration No. F-754

### HCRMA GRANJENO WETLAND MITIGATION SITE PLAN

SCALE: 1"-1	000'		SH	EET	1 OF 1					
DN:	CONT	SECT	JOB		BIGHWAY					
K DN:	h			-						
DW:	0921	02	368	36	55 TOLL					
K DW:	DIST		COUNTY	SHEET NO.						
TR:					A 70 A					
K TR:	PHR		HILDAGO	2 V R 2						



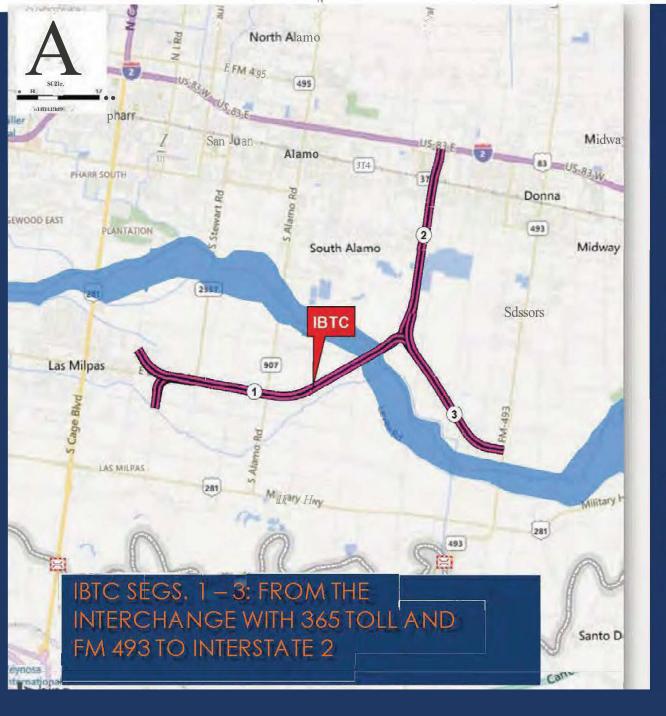




<u>www.hcrma.net</u>





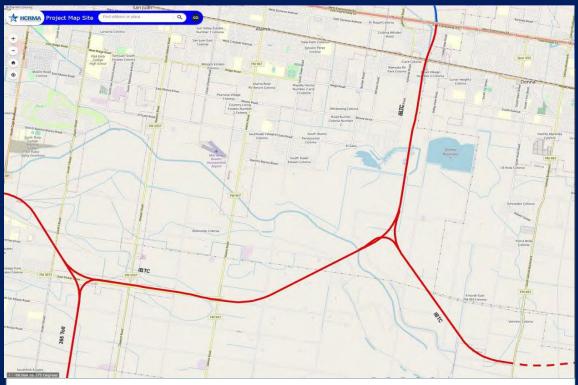




13.15-mile long project. The proposed project would construct a new location non-tolled facility beginning at 1) 365 Tollway (Dicker Road) and extends 5.43 miles in a west direction. The alignment splits just west of FM 1423 (Val Verde Road) and travels north, 2) the northern leg continues 4.21 miles to Interstate Highway 2. The east leg 3) travels 3.51 miles east to where it is proposed to connect to FM 493.



# HCRMA – IBTC Project CSJ#:0921-02-142



#### **Recent Key Activity:**

- Included in Border Master Plan- High Impact Project
- Received Environmental Classification of Environmental Assessment October 2017.
- Held Public Meeting March 2019.
- TxDOT approved schematic November 2021.
- Public Hearing held March 2022.
- Risk workshop held with TxDOT Portfolio Management Division April 2022.
- Requested Functional Classification: Principal Arterial
- Estimated NEPA clearance by May 2023.
- Schematic updates UPRR Structure Group for Railroad Bridge over BUS83
- Working with RGVMPO/TxDOT to federalize project
- TxDOT/FHWA to migrate project ON-SYSTEM

- 1 Environmental: 99%
- 2 Preliminary Engineering: 75%
- ROW & Utilities: 60%
  63 of 186 parcels acquired
- 4 Design: 65%
- Funding: 20% \$38M / \$211,442,110 HCRMA IBTC - 0921-02-142 - FY 2026
  - Revising Costs and Funding (PE, ROW, C, CE
  - Pending FC





### ► ADVANCE PLANNING



### Funding / UTP / TIP Status:

- Funding is non-toll and incorporates overweight corridor network fees to help finance project
- ☐ HCRMA requested via letter to TxDOT for On-System classification
- □ The project has been included in federalized amendment to 2023-26 STIP, adding \$20 Million of Category 7 federal funds to the project for construction.
- □ On May 1, 2023 Federal Functional Classification [FC] request was submitted to RGVMPO. Preliminary review and TxDOT concurrence for FHWA submittal is anticipated by July 2023.

### **Environmental:**

- Submitted Final EA revisions 8/8/2022. The Final EA document will need to be updated (Project Consistency Section of the EA) to illustrate the new funding for consistency and anticipate project's final determination by late-2023.
- TxDOT anticipates approval of the the environmental document upon project's federalization [FC].





April 30, 2023

**Board of Directors** 

S. David Deanda, Jr., Chairman
Forrest Runnels, Vice Chairman
Ezequiel Reyna, Jr., Secretary/Treasurer
Gabriel Kamel, Director
Francisco "Frank" Pardo, Director
Julio Cerda, Director
Juan Carlos Del Ángel, Director

Mr. Andrew A. Canon Executive Director Rio Grande Valley MPO 617 W. University Drive Edinburg, Texas 78539

**RE:** International Bridge Trade Corridor (IBTC) Request for Federal Functional Classification

CSJ: 0921-02-142

Limits: From 365 Tollway at FM 493 to IH-2

**Project Length: 13.15 Miles** 

**Functional Classification Requested: Principal Arterial** 

Dear Mr. Canon,

The Hidalgo County Regional Mobility Authority (HCRMA) in coordination with the Rio Grande Valley Metropolitan Planning Organization (RGVMPO) and Texas Department of Transportation (TxDOT) are seeking Federal Functional Classification of IBTC (from 365 Tollway at FM 493 to IH-2).

The attached project data is provided to support justification for our request. Please feel free to call me at 956-402-4762 if you have any questions or concerns.

Sincerely,

**Hidalgo County Regional Mobility Authority** 

Pilar Rodriguez, PE Executive Director

	International Bridge Trade Corridor (IBTC) (CSJ: 0921-02-142)																																																					
Duningt Mileston					2	022						2023							2024							2025										2026																		
Project Milestones	J	FΓ	ИΙ	A N	IJ	J	Α	S	0	N [	)	F	М	Α	П	М	J .	J A	A S	0	N	D	J	FN	ΛА	М	J	J	A S	5 0	) N	D	J	F	М	Α	М	J	J	Α	S	0 1	1 [	5	J	F	М	Α	М	J	J A	A S	0	N
Environmental (Ongoing)																	Т	Т	Т	Т	П		П		Т			Т		Т		Т			П				П	Т	Т			Т							Т	Т		
Surveys		Т		Т					Т		T														Т			T		Т		Т		П	П	╗	$\overline{}$			Comp	plet	e RR		Т							T	Т		
ROW Title Research / Appraisals		T		Т		Г			T		T																	T		Т		Т			П	7				_	_	_	4	T	95	%	PS&	Ε	П		T			
ROW Acquisition (Remaining)		T		Т					T		T				$\neg$				Т																																T			
Plans, Specs., & Estimates		T		Т	٠,	$\Diamond$			T						T		T		Т																																T			
Utility Coord / Relocation	Uni	tiate	DD	Τ	7				T						T				T																																			
Constr. Contract Letting Phase	П'''	liate	= NN		Г	Π			T		T				ヿ		T		T					T				_										0.5		T											T	T		
Construction Start		Т	Т	Т		Т			丁		T		Г		ヿ		T	Т	T		Т			T	Τ			T		30	PS	2 8			П	60	% P3	άŁ			-	<i>1</i> 0 %	P3 6	ΧĖ							T	T		
	42 MONTH CONSTRUCTION FROM SEPT 2025 - MAR 2029																																																					

Milestones **Target Date Updated Target Date** 1 Start Date 2 **Feasibility Study** 3 SCH/ENV WA 4 6/1/2022 1/1/2024 PSE WA 12/31/2021 9/30/2022 5 AFA 9/1/2022 10/31/2023 6 **Geotechnical Report** 1/31/2024 7 **Design Survey** 2/28/2025 8 SUE 9 **Traffic Analysis** 10 Schematic 12/1/2022 7/31/2024 11 **PSE 30%** 5/31/2023 11/31/2021 12 **ENV Clearance** 8/31/2023 13 ROW Survey/Map 11/1/2021 12/1/2022 1/31/2025 14 **PSE 60%** 5/1/2023 10/31/2025 15 **PSE 95%** 16 **ENV Permits/Survey** 12/31/2025 **ROW Acquisition** 6/1/2022 17 3/31/2026 18 **Utility Adjustments** 10/1/2022 7/31/2023 3/31/2026 **PSE 100%** 19 20 Railroad Coord. 1/1/2022 7/1/2022 - 03/31/2025 9/1/2025 10/1/2023 Ready to Let

The IBTC project is broken down into two phases. Phase I (Interim Design) and Phase II (Ultimate Design)\_ Phase I Includes the construction of frontage roads on the West and East legs of the roadway and the main lanes in the Nonh leg and is the subject of this grant application. There are no frontage roads Included in the North leg of the IBTC. Typical sections for the East, West, and North legs for Phase I of the IBTC can be found below\_



Figure 2: East Leg Phase f Typical Section



Figure 3: West Leg Phase f Typical Section



Figure 4; North Leg Phase I Typfca/ Section

M PDG Grant Ap1JllcaUon - !BTC





Additional details on the proposed conditions for the West, East, and North legs in the Phase I design can be found below:

- . East Leg: The East Leg of the project consists of one frontage road with one 12-footwide lane in each direction (two lanes total), 10-foot-wide inside and outside shoulders, a 12-foot-wide inside ditch. and an 8 to 10 feet outside ditch.
- West Leg: The West Leg includes two frontage roads With one 12-foot-wide lane in each direction (four lanes total), a 10-foot-wide outside shoulder, and a 4-foot-wide inside shoulder separated by a variable width grassy median. Also included is a 20-foot-wide outside ditch and variable width inside ditch.
- North Leg: The North Leg of the project includes two 12-foot-wide mainlanes in each direction (four lanes tot-al), a 10-foot-wide outside shoulder, and a 4-foot-wide 1nsioe shoulder separated by a concrete barrier.

Phase Iof the IBTC includes several proposed structures to help facilitate traffic flow and mitigate potential flooding impacts to the roadway. An underpass at Border Road, a bridge over the International Boundary and Water Commission (IBWC) Main Floodway Channel, a bridge/culvert at the Donna Reservoir, and an overpass at Business Highway 83 are all proposed as part of the Phase Idesign. The maximum depth of impacts for the

Phase Iincludes the construction of frontage roads on the West and East legs of tl,e roadway and the rT1ainlanes in the North leg and is the subject of this grant application.

proposed project would be 3 feet in areas for the new pavement, a maximum depth of 10 feet for cross-culverts, and a maximum depth of 10 feet for drainage ditches. At bridge structures, the depth of impacts may extend to 25 feet deep for drilled shafts or pile foundations.

While this MPDG application is for the Phase I(Interim) Design, the IBTC will eventually be built out to include the Phase II (Ultimate) Design. Typical sections for the Phase II Design can be found below for reference.

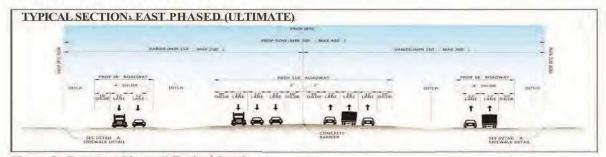


Figure S: East Leg Phase II Typical Section



MPDG Grant Appltcation



**SY HCRMA** 

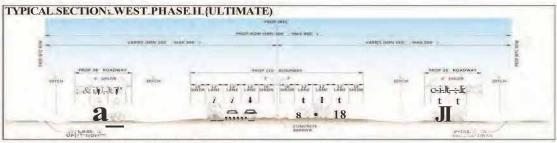


Figure 6: West Leg Phase II Typical Section

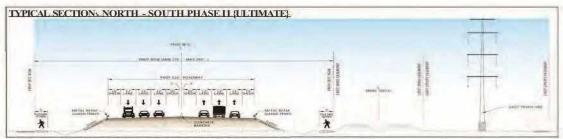


Figure 7: North Leg Phase II Typical Section

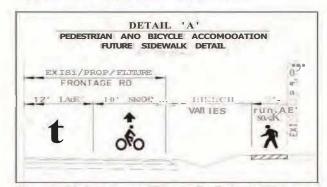


Figure & Pedestrian and Bicycle for Potential Future Accommodations Typical Section (East and West Legs)

While this MPDG application is for the Phase I (Interim) Design, the IBTC will eventually be built out to include the Phase I (Ultimate) Design.

MPDG Grant Application - IBTC





## OVERWEIGHT/ OVERSIZE CORRIDOR SEGMENTS







Friday, March 10, 2023



#### Specialized Overweight Perro-15-

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.

#### Descrit Information

The Hidalgo County Regional Mobility Authority (HCRMA) administers is a Hillard County overweight corridor and facilitates the Hidalga is 50% by Specialized Overweight Permits that allow for the movement to overweight by hides carrying cargo on the following roads:

- (1) IJS. Highway 281 between its intersection with Pharr-Reynosa International Eridge 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 1015.
- (3) Farm-to-Market Rikia/J 10 Im Intween its Intersection with State Highway 336 and its Intersection with 7/1/in/lig IR/liki/J.
- (4) Trinity Road between its intersection with Farm-to-Market Road 1016 and its intersection with Farm-to-
- (5) Farm-to-Market Road 396 between its intersection with Trinity Road and its intersection with the Anzaiduas International Bridge.
- (6) Farm-to-Mar(10stRoal) And between its intersection with Farm-to-Market Road 3072 and its intersection with U.S. Highway 261
- (7) U.S. Highway 281 between its intersection with the Pharr-Reynosa International Eridge 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 Irighwas in Interstate 2 (US 83).
- (11) FM 3072 (Dicker Road) from Veterans Boulevard ("Road) to Cesar Chavez Road.
- (12) Route 12: US 261 (Cage Boulevard) from US 261/M1111al) Highway bt Anayiii jilClilit.
- (13) Us 22 HMTHaP Highway from Sour 29 to FM 1mis.
- (14) Farm to Market 1015 Progresso International Bridge in Mile 9 North.
- (15) US 53 Business Farm to Market 1015 to South (End): e. Aret We

The gross weight of cargo and equipment sitalizate exceed the allowable permittable axie load, the Mexican Legal Weight Limit or 125,000 lbs, whichever is less, and the dimensions of itle  $t_0(a)$  and vehicle shall not exceed 12' wide, 15'6' high, or 110' long.

# ► OVERWEIGHT REPORT FOR April 2023: January 1, 2023- April 30, 2023

# OW

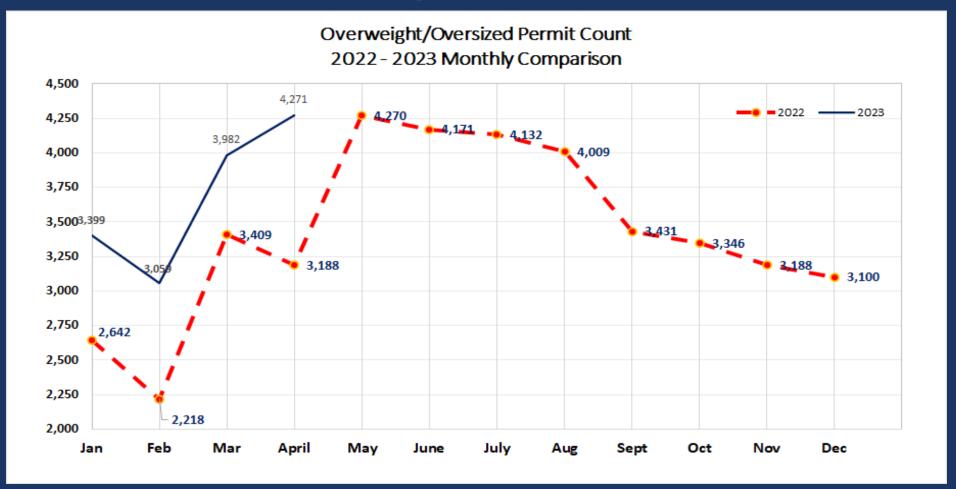
Total Permits Issued:	14,711
Total Amount Collected:	\$3,003,850
■ Convenience Fees:	\$ 61,650
■ Total Permit Fees:	\$2,942,200
– Pro Miles:	\$ 44,133
- TxDOT:	\$ 2,500,870
- HCRMA:	\$ 397,197



### OVERWEIGHT REPORT FOR 2023:

# OW

## JANUARY 1, 2023 – April 30, 2023



### Notes:

- 1. The permit count for 2022 (41,104) ended with a +4.5% (increase of 1831) compared to 2021 (39,273).
- 2. Monthly permit count of 4,271 represents a +34% (increase, 1,083) compared to the same month in 2022 (3,188).

ENR's 20-city average cost indexes, wages and materials prices. Historical data for ENR's 20 cities can be found at ENR.com/economics

#### Construction CostIndex

ANNUAL

**APR. 2023** 

INFLATION RAT	E	APR. 20	23
1913-00 0	INDEX VALUE	mooned.	YEAR
CONSTRUCTION COST	13229.57	+0.4%	+2.6%
COM MON LABOR	24806.90	+0.7%	+1.2%
WAGES/HR.	473	+0.7%	+12%

#### Building Cost Index

ANNUAL INFLATION RATE

1913 -400	INDEXVALUE	MONTH	YEAR
BUILDINGCOST	8000.86	0.0%	+4.2%
SKILLED LABOR	11445.22	+0.4%	+3.0%
WAGES/HR.	63.18	+0.4%	+3.0%
WASESTAR	61.18	40.4%	45.D%

The Construction Cost Index's annual escalation rose 26%, while the monthly component rose 0.4%.

#### Materials Cost Index

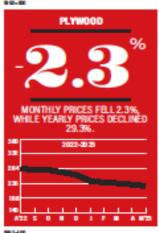
1		10 114		
l	1903-100	INDEX VALUE	EI COMB	YEAR
1	MATERIALS COST	5870.49	-0.2%	+62%
1	CEMENT S/TON	190.44	+2.1%	+19.8%
	STEEL\$/CWT	96.02	+0.2%	+152%
ı	LUMBER SAMBF	962.19	-2.1%	-13.9%

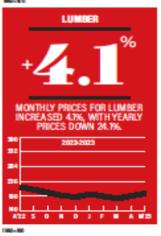
The Materials Cost Index fell 0.2% this month, while the annual escalation rate increased 6.2%.

### ENR's Materials Prices For May 2023









#### 20-CITY AVERAGE

20-CITT AVERA				
ITEM	UNIT	\$PRICE	%MONTH	%YEAR
2"X 4"S4S				
Pine	MOF	1183.64	-0.2	-29.1
Fir	MOF	771.05	+15.0	+59
Common	MOF	910.49	+4.1	-24.1
2"X 6"S4S				
Common	MOF	951.39	-2.5	-313
2"X 8"S4S				
Common	MOF	855.07	-1.1	-29.4
2"X10"S4S				
Common	MOF	1018.92	+2.7	-21.7
PLYWOOD				
%"Thick	MSF	1001.13	-23	-293
PLYFORM				
%"Thick	MSF	1779.93	+1.1	-33
PARTICLEBOARD: UP	NDERL	AYMEN	T	
%"Thick	MSF	852.00	+13	-36.6
GYPSUM BOARD: RE	GULA	R		
16"	MSF	423.84	+52	+23.4
<b>ROOFING INSULATIO</b>	ON			
Unfaced	SF	10.46	+2.6	+275
WALL INSULATION				
Unfaced	Œ	10.34	-3.1	+25.6
				SOURCE: ENR
BLS PRODUCER PRIC			RCH	
Gypsum building products		UNE	3903 -01	+95
manufacturing		1=100		
Softwood Lumber			274.02 -0.9	-493
Plywood	190	2=100	283.1 -0.6	-28.7

As of Agril 2019, ENR is publishing BLS producer price index numbers for lumber SOURCE BUREAU OF LABOR STATISTICS