

HIDALGO COUNTY DRAINAGE DISTRICT NO. 1

General Manager - Raul E. Sesin, P.E., CFM

USIBWC – Lower Rio Grande Citizens Forum





Mission Statement

The mission of the Hidalgo County Drainage District No. 1 is to proactively manage the Hidalgo County Master Drainage System and allow for the efficient exportation of drainage water, to protect life and property for Hidalgo County residents, businesses and surrounding jurisdictions.

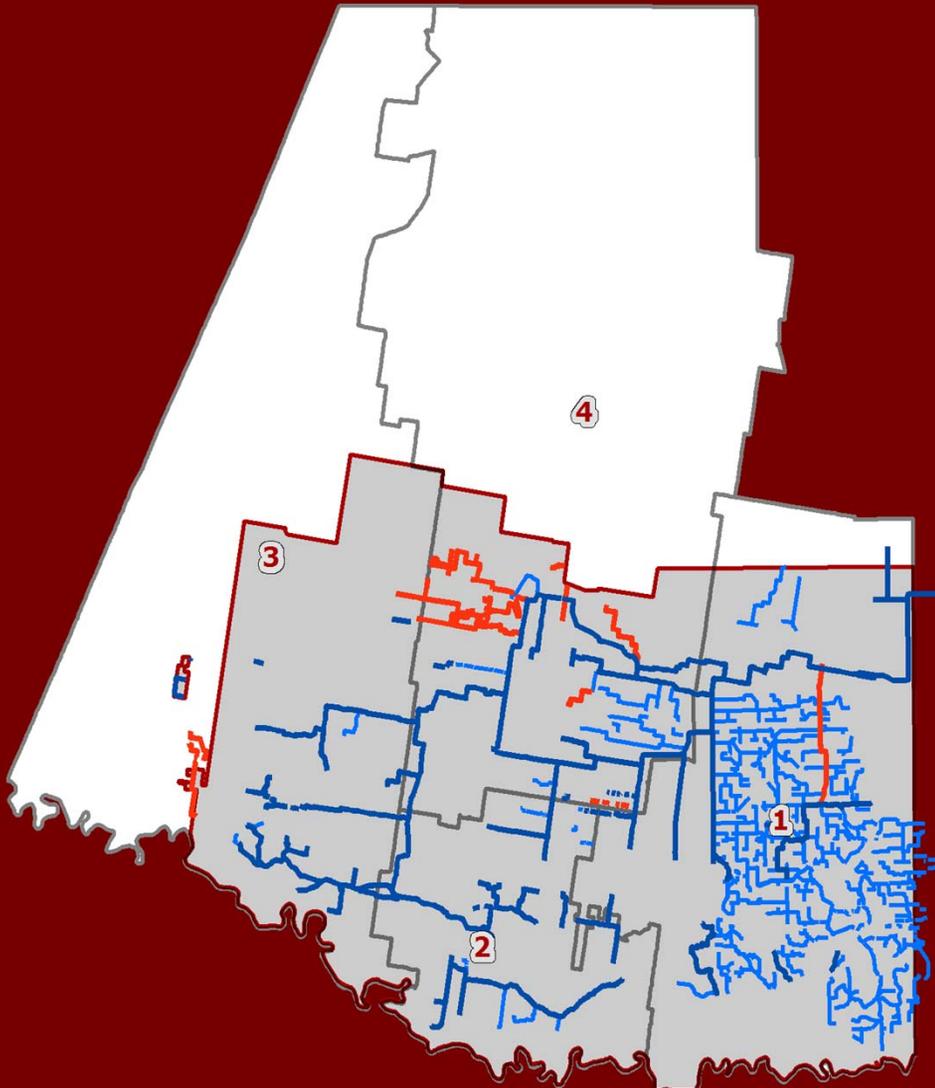
District Information

Hidalgo County Drainage District No. 1 (HCDD1) owns, manages and maintains 289 miles of drainage systems, and maintains an additional 265 miles of drainage systems through inter-local agreements with surrounding entities.

Currently, HCDD1 is responsible for maintaining 554 miles of drainage systems, planned construction on an additional 81 miles, and manages 25 IBWC floodway gates. The grand total of current and future miles is 635, and is equivalent to the distance it takes to travel from McAllen, Texas to Oklahoma City, Oklahoma.

Boundaries:

- North FM 490
- East Mile 3 (County Line)
- South Rio Grande River
- West Tom Gill Rd.



District Information

- 132 - Maintenance & Operations Employees
- 5 – Temporary M&O Employees
- 33 - Administration Employees
- 2 – Student Engineer Assistant

Fleet

- 73 Pickups
- 12 Dump Trucks
- 2 Haul Truck

Shredding Operations

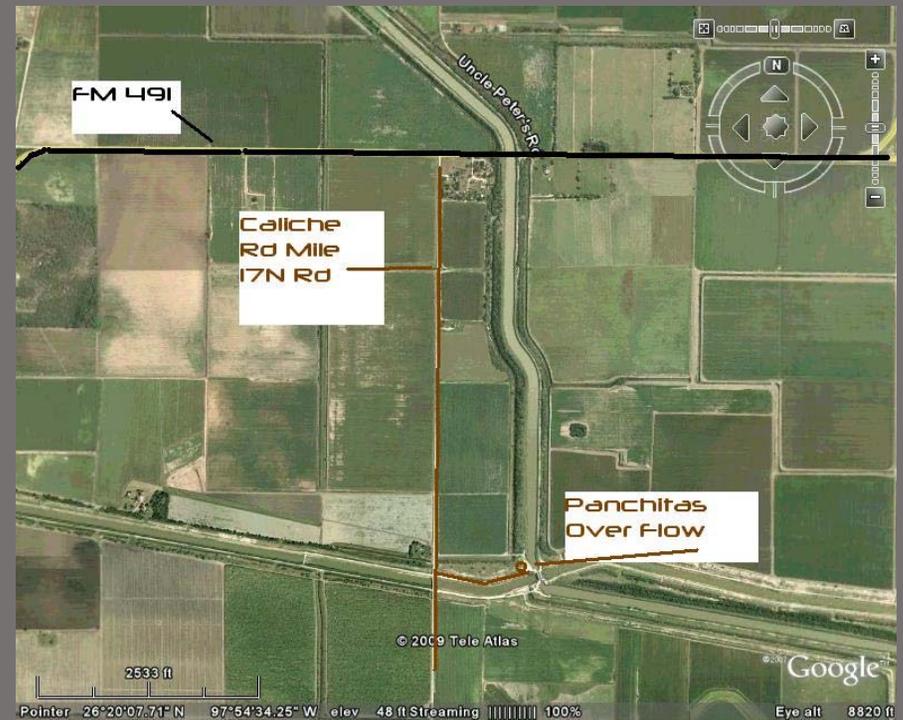
- 42 Shredders
- Typical Shredding cycle is approx. 4 to 6 months for our current system

Heavy Equipment

- 41 pieces of equipment
- Excavators
- Drag Lines
- Dozers
- Motor Cranes
- Motor Graders
- Backhoes



Panchitas Structure





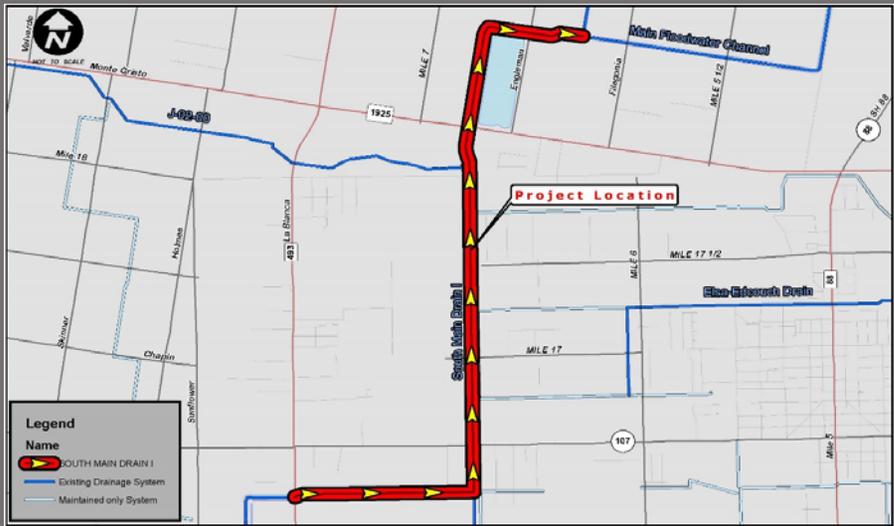
Recent Flood Mitigation Projects



Project Name	Location	Length	Total Cost	Status
Trenton Drain Phase I	Pct. 4 – Runs between Alamo Road to Tower Rd. North of Alberta Rd	1.15 mi	\$189,700 (HCDD1 Engineering In-Kind) 2,287,571.78 (Urban County) – Total: 2,477,271.78	Completed
Alberta Drain	Pct. 4 – Runs North of Owassa Rd. East of Cesar Chavez Rd. to West of Alamo Lateral.	0.97 mi	\$2,299,566.63	Completed
South Fork Drain	Pct 2 – North Military Rd. from I Rd North to Anaya Rd	1.95 mi	\$4,245,746.64 (Urban County - \$3,730,380.86)	Completed
East Lateral Drain	Pct. 1 – Phase I: SH 107 to Mercedes Lateral South of Mile 13 (approx. 1.12 miles). Phase II: Main Flood Water Channel to SH 107 (approx. 2.0 miles). Phase III: South of Mile 13 to North of Mile 14 between Mile 1&2 (approx. 1.86 miles)	6.31 mi	\$12,405,598.44	Completed
Cesar Chavez Drain	Pct. 1 & 2 – Cesar Chavez Rd. to Alamo Lateral. North of Sioux Rd.	0.61 mi	\$1,431,341.27	Completed
LJ Drain	Pct. 1 & 2 – Cesar Chavez Rd. to Alamo Lateral. North Minnesota Rd.	2.35 mi	\$1,327,054.00	Completed
Penitas Drain I, II, III	Pct. 3 – The project commences at the proposed south Penitas Detention Basin located south of US 83 which is under construction. Multiple reinforced concrete boxes will be installed across US 83 and the new ditch will start north of US 83 and continue north to HCID No. 6 main canal (Liberty Boulevard) located approximately 3,000 feet north of US 83. A bleeder drainage line will discharge into this new drain from HCDD 1 Bell Regional Detention Facility (RDF) located approximately 6,000 feet north of US 83.	0.69 mi	\$6,631,482.30	Under Construction
Cesar Chavez Drain Phase II	Pct. 1 & 2 – Drainage Improvement. Expands Cesar Chavez Drain.	1.47 mi	\$870,065.26	Under Construction
Trenton Drain Phase II	Pct. 4 – Between Cesar Chavez Rd. and Tower Rd. North of Alberta Rd. and South of Trenton Rd.	1.15 mi	\$4,837,713.26	Design



HCDD No. 1 Project – South Main Drain I & Alamo Lateral



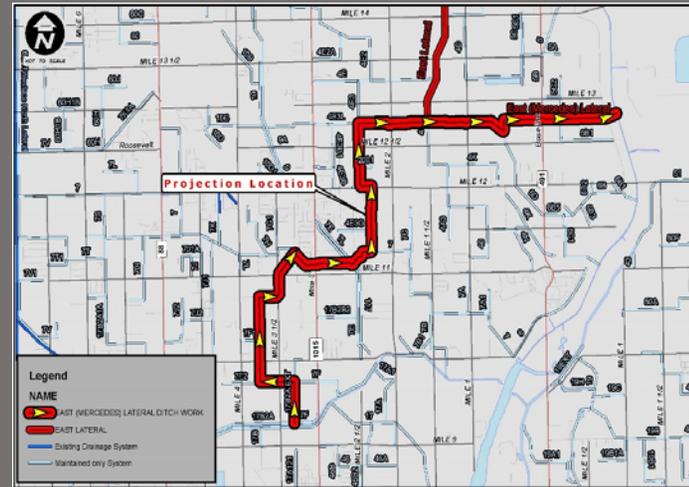
- South Main Drain I (FM 493 to Floodwater Channel)**
- Length: 12.36
 - Start: December 2016 End: January 2019
 - Cost: \$373,767.74
 - M&O Project Designed in-house to facilitate maintenance and double capacity in the System



- Alamo Lateral Drain**
- Length: 2.24
 - Start: September 2015 End: January 2019
 - Cost: \$529,717.80
 - M&O Project Designed in-house to facilitate maintenance and double capacity in the System



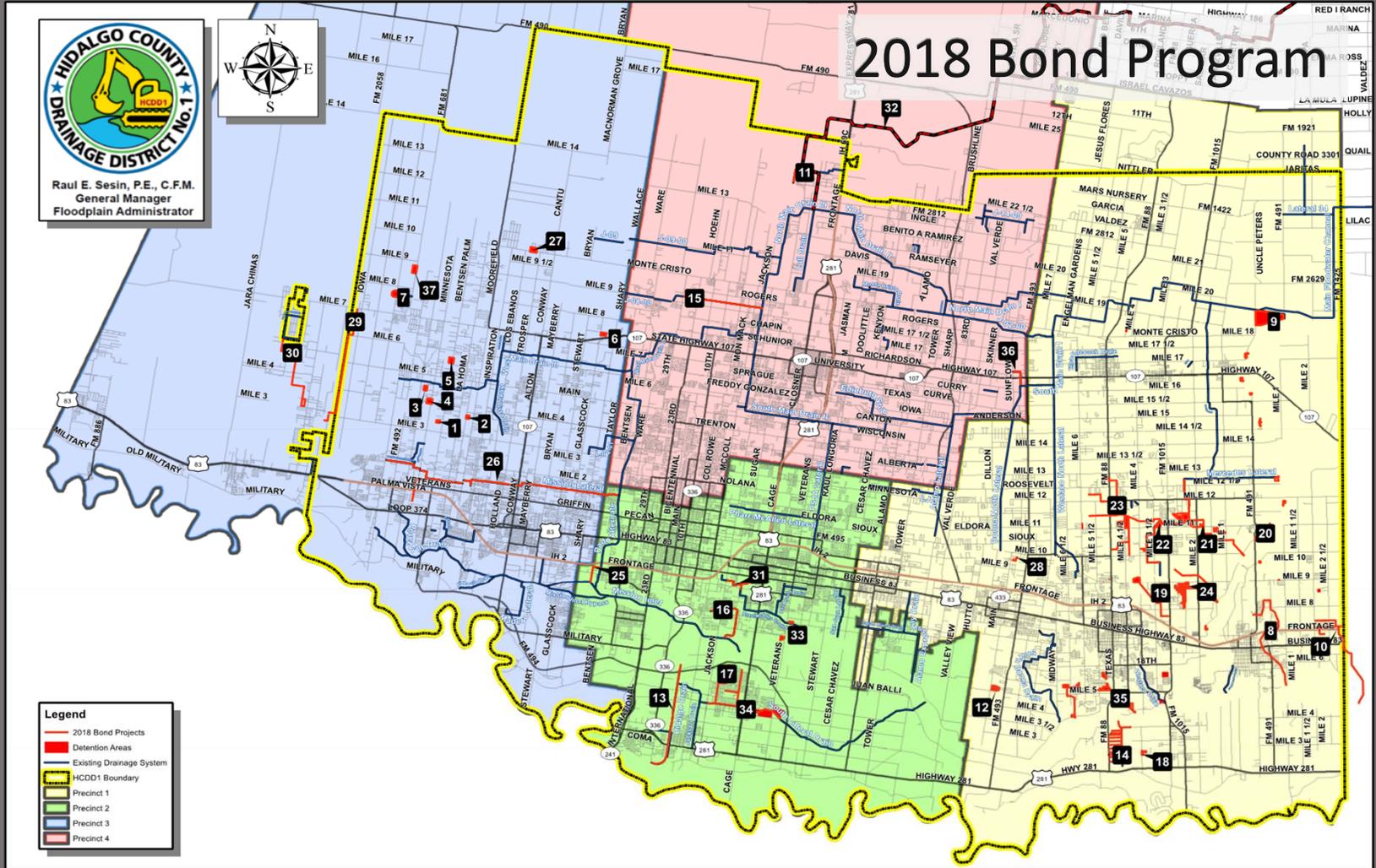
HCDD No. 1 Project – Mercedes Lateral Drain



- Length: 8.98
- Start: April 2016
- End: Scheduled for 2019
- Over-All Cost: \$896,532.36
- Location: The drain commences approximately $\frac{1}{4}$ north of Mile 9, east of Mile $3\frac{1}{2}$ and west of FM 1015. The drain runs north and south up to Mile 11 and turns east running approximately $\frac{1}{4}$ mile north of Mile 11 in an east west direction to approximately $\frac{3}{4}$ miles east of FM 1015 where it turns north and runs north south crossing Mile $12\frac{1}{2}$. Approximately $\frac{1}{4}$ north of Mile $12\frac{1}{2}$ the ditch turns east and continues in an easterly direction to its ultimate outfall, the IBWC Floodway which is approximately $\frac{3}{4}$ miles east of Baseline Road (FM 491).
- M&O Project Designed in-house to facilitate maintenance and double capacity in the System



2018 BOND





PCT.	PROJECT NO.	PROJECT NAME	EGN ESTIMATE
1	8	Anaquitas	\$ 7,670,000.00
1	9	Delta Regional Reservoir	\$ 10,000,000.00
1	10	East Mercedes	\$ 6,495,192.00
1	12	FM 493 & Country Rd	\$ 1,305,000.00
1	14	Hwy 281 & FM 88	\$ 1,452,000.00
1	18	Malone Dr & Pomelo Rd	\$ 609,000.00
1	19	Mid Valley Airport	\$ 7,615,920.00
1	20	Mile 10 N & Baseline Rd	\$ 1,899,136.00
1	21	Mile 10 N & Mile 1 W	\$ 4,482,168.00
1	22	Mile 11 N & FM 1015	\$ 14,722,192.00
1	23	Mile 11 N & Texas Blvd	\$ 10,628,888.00
1	24	Mile 9 N & FM 1015	\$ 10,645,208.00
1	28	Old La Blanca & Mile 10 N	\$ 496,000.00
1	35	Southwest Weslaco	\$ 10,504,952.00
2	13	Hidalgo Drain	\$ 1,500,000.00
2	16	Jackson Rd. Drain	\$ 3,618,750.00
2	17	Las Milpas	\$ 1,922,500.00
2	25	Mission-McAllen Rado Alternate	\$ 7,181,250.00
2	31	Pharr-McAllen Drain	\$ 891,250.00
2	33	South "I" Rd. Detention	\$ 4,408,000.00
2	34	South Lateral Drain	\$ 13,350,000.00
3	1	3 1/4 Mile Rd. & N. Bentsen Palm Dr.	\$ 80,434.00
3	2	3 3/4 Mile Rd. & Shuerbach Rd.	\$ 2,235,749.00
3	3	4 1/2 Mile Rd. & N. Doffing Rd.	\$ 950,974.00
3	4	4 Mile Rd. & Minnesota Rd.	\$ 259,531.00
3	5	5 1/2 Mile Rd. & N. Bentsen Palm Dr.	\$ 80,434.00
3	6	7 1/2 Mile Rd. & Glasscock Rd.	\$ 354,375.00
3	7	7 1/2 Mile Rd. & Western Rd	\$ 340,938.00
3	26	Mission Lateral	\$ 12,779,500.00
3	27	Monte Cristo Rd. & Conway Rd.	\$ 7,392,016.00
3	29	PD-Lateral	\$ 4,586,474.00
3	30	Penitas Drain	\$ 5,393,595.00
3	37	Western Rd & 9 Mile Line	\$ 80,434.00
4	11	Faysville Drain	\$ 6,902,445.00
4	15	J-08 Drain	\$ 7,032,968.00
4	32	Raymondville Drain	\$ 15,000,000.00
4	36	Sunflower Drain	\$ 1,132,727.00

2018 Bond Program

- 190 Million Drainage Bond Approved on Nov. 06, 2018 by 67.44% of the votes. (Registered voters – 362,815)
- 3 cent Property Tax increase per \$100 valuation. Ex: Home cost of \$100,000 will pay \$30 more per year once the entire Bond is sold.
- Timeline
 - Select Consultants within the next 90 days
 - Initiate Design in Phases
 - Start Bidding Projects out in 2019 and work to place all projects out for construction by 2021.

Proposed Improvements

- Regional Detention Facilities: Approx. 535 acres
- Existing Ditch Improvement/New Drainage Improvements: Approx. 100 miles
- Additional Structures at IBWC Floodway



Illegal Dumping

HEALTH RISKS

- Drinking water quality issues related to non-point source pollution
- Flooding caused by debris/wastes that clog drainage ditches and waterways
- Habitat/breeding grounds for disease-carrying vectors
- Indirect exposure to toxic chemicals/hazardous wastes
- Inhaling pollutants carried by smoke from open burning ("burn barrels", etc.) and dump fires
- Direct contact exposure to sharp objects, medical wastes, caustic substances, and fire.

Report Illegal Dumping
800-381-1051





Hidalgo County Drainage District No. 1
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Thank You

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