HIDALGO COUNTY DRAINAGE DISTRICT NO. 1

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

USIBWC – Lower Rio Grande Citizens Forum
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.
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

- Control Structure for storm waters from Hidalgo to Willacy County
- 3750 cfs
- 5 – 9 x 17 Boxes; 4 – 9 x 15 Gates
- Diversion Channel from North Main Drain to IBWC North Floodway.
# Recent Flood Mitigation Projects

<table>
<thead>
<tr>
<th>Project Name</th>
<th>Location</th>
<th>Length</th>
<th>Total Cost</th>
<th>Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>Trenton Drain Phase I</td>
<td>Pct. 4 – Runs between Alamo Road to Tower Rd. North of Alberta Rd</td>
<td>1.15 mi</td>
<td>$189,700 (HCDD1 Engineering In-Kind) 2,287,571.78 (Urban County) – Total: 2,477,271.78</td>
<td>Completed</td>
</tr>
<tr>
<td>Alberta Drain</td>
<td>Pct. 4 – Runs North of Owassa Rd. East of Cesar Chavez Rd. to West of Alamo Lateral.</td>
<td>0.97 mi</td>
<td>$2,299,566.63</td>
<td>Completed</td>
</tr>
<tr>
<td>South Fork Drain</td>
<td>Pct 2 – North Military Rd. from I Rd North to Anaya Rd</td>
<td>1.95 mi</td>
<td>$4,245,746.64 (Urban County - $3,730,380.86)</td>
<td>Completed</td>
</tr>
<tr>
<td>East Lateral Drain</td>
<td>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 182 (approx. 1.86 miles)</td>
<td>6.31 mi</td>
<td>$12,405,598.44</td>
<td>Completed</td>
</tr>
<tr>
<td>Cesar Chavez Drain</td>
<td>Pct. 1 &amp; 2 – Cesar Chavez Rd. to Alamo Lateral. North of Sioux Rd.</td>
<td>0.61 mi</td>
<td>$1,431,341.27</td>
<td>Completed</td>
</tr>
<tr>
<td>LJ Drain</td>
<td>Pct. 1 &amp; 2 – Cesar Chavez Rd. to Alamo Lateral. North Minnesota Rd.</td>
<td>2.35 mi</td>
<td>$1,327,054.00</td>
<td>Completed</td>
</tr>
<tr>
<td>Penitas Drain I, II, III</td>
<td>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.</td>
<td>0.69 mi</td>
<td>$6,631,482.30</td>
<td>Under Construction</td>
</tr>
<tr>
<td>Cesar Chavez Drain Phase II</td>
<td>Pct. 1 &amp; 2 – Drainage Improvement. Expands Cesar Chavez Drain.</td>
<td>1.47 mi</td>
<td>$870,065.26</td>
<td>Under Construction</td>
</tr>
<tr>
<td>Trenton Drain Phase II</td>
<td>Pct. 4 – Between Cesar Chavez Rd. and Tower Rd. North of Alberta Rd. and South of Trenton Rd.</td>
<td>1.15 mi</td>
<td>$4,837,713.26</td>
<td>Design</td>
</tr>
</tbody>
</table>
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 ¼ north of Mile 9, east of Mile 3 ½ and west of FM 1015. The drain runs north and south up to Mile 11 and turns east running approximately ¼ mile north of Mile 11 in an east west direction to approximately ¾ miles east of FM 1015 where it turns north and runs north south crossing Mile 12 ½. Approximately ¼ north of Mile 12 ½ the ditch turns east and continues in an easterly direction to its ultimate outfall, the IBWC Floodway which is approximately ¾ miles east of Baseline Road (FM 491).

M&O Project Designed in-house to facilitate maintenance and double capacity in the System.
Raymondville Drain
- Length: 63 miles
- Construction commenced in November 2017
- Cost to Date: $27,631,234.95

Delta Water Management Project Goals
- Capturing and/or Redirection of Existing and Proposed Surface Water Runoff
- Increase Future Water Availability for Agricultural and Municipal Use
- Provide Additional Flood Protection
- Raw Water Collection and Distribution
- MS4 Educational Programs
- Economic Development Areas
- Green Infrastructure
- Over-All Cost: $93,835,000
- Construction of Delta Reservoir Commenced on October 2018
2018 Bond Program
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
Thank You

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