Agenda

For Presentation at the
2,206th Regular Meeting of the Board of Directors of the
Middle Rio Grande Conservancy District

December 11, 2023 – 3:00 p.m.

Zoom Meeting Link:
https://zoom.us/j/2765069278?pwd=V2d0SWppTkxGTTFMb0g5RFhmeERjZz09
Meeting ID: 276 506 9278 and Passcode: 504470

MRGCD General Office * 1931 Second Street SW * Albuquerque, New Mexico
Meetings are held on second Mondays/month. Any questions please call the Board Liaison at (505) 247-0234.
For more information, visit our website at www.mrgcd.com

All items on Agenda are Subject to Action and times shown are approximate and are subject to change.

3:00 1. **Pledge of Allegiance**

3:01 2. **Approval of the Agenda**

3:03 3. **Consent Agenda**
   a. Consideration/Approval of Payment Ratification – December 11, 2023
   b. Consideration/Approval of November 2023 Invoice for Wiggins, Williams & Wiggins
   c. Consideration/Approval of November 2023 Invoice for Law and Resource Planning Assoc.
   d. Consideration/Approval of the Minutes for the Regular Board Meeting – November 13, 2023
   e. Memo on MRGCD Approved Licenses for November 2023 (For Informational Purposes Only)
   f. November / December 2023 from Amanda Molina, PIO (For Informational Purposes Only)

3:05 4. **Announcement of the Vacancy of Position No. 4 – Bernalillo County Seat on the MRGCD Board of Directors as of December 12, 2023**

3:07 5. **Recognition of Director Joaquin Baca's Service to the Middle Rio Grande Valley from June 2017 to December 2023**

3:15 6. **Presentation on the San Acacia Operations & Maintenance Manual** – Lt. Col. Hansbrough, Brian Sanchez and Jacob Pauly, USACE

3:45 7. **Report from the Bureau of Reclamation** – Jennifer Faler, Area Manager

4:15 8. **Items from the Floor (Comments are limited to six (6) minutes)**

4:45 9. **Report(s) from the Water Operations and Water Distribution Divisions**
   a. Report on the Water Supply Conditions – Anne Marken, Water Ops Division Manager
   b. Status Report on Water Distribution – Matt Martinez, Water Distribution Division Manager

4:55 10. **Report(s) from the Human Resources Department** – Christine L. Nardi, MBA
   a. Introduction of MRGCD New Hires
   b. Consideration/Approval of the 2024 Holiday Schedule

5:10 11. **Report(s) from the Chief Procurement Officer** – Richard DeLoia, CPO
   a. Consideration/Approval for the Storey Wasteway Project – Alicia Lopez, Engineering and Mapping Manager
   b. Consideration/Approval of the Film Production Agreement Between MRGCD and Filmmaker Aracely "Arcie" Chapa – Casey Ish, Conservation Program Supervisor

5:20 12. **Report(s) from the Secretary-Treasurer/CFO –** Pamela Fanelli, CMA, CGFM
   a. Report of the Exit Interview for FY2023 Audit with Carr, Riggs & Ingram, November 30, 2023 – Pam Fanelli, CFO, Chair Russo Baca and Vice Chair Dunning
   b. Report on the Finance Committee Meeting, December 11, 2023 – Director Kelly, Vice Chair Dunning and Chair Russo Baca
   c. Set Date for Special Meeting to Determine Water Bank Lease Rates

5:30 13. **Report(s) from the Bureau of Indian Affairs** – Dr. Sarah Delavan, Designated Engineer

5:40 14. **Report(s) from the Chief Operating Officer – Eric Zamora, PE**
   a. MRGCD Division Manager Updates – Julian Avalos, Socorro Division Manager

5:50 15. **Report(s) from the Chief Engineer/CEO** – **Jason M. Casuga, PE**
   a. Report from the Conservation Program's On-Farm Program Projects – Jose Contreras-Alvarado, Agriculture Irrigation Specialist

   b. Report on the Socorro Farmers–Irrigators Meeting, November 30, 2023 – Jason M. Casuga, CE/CEO, Chair Russo Baca and Directors Jiron, Kelly and Duggins

   c. Report on Middle Rio Grande Flood Control Association Breakfast, December 5, 2023 – Jason M. Casuga, CE/CEO, Chair Russo Baca, Vice Chair Dunning and Directors Baca, Kelly, Sandoval and Jiron

   d. Report on the Water Leaders Workshop, December 6 – 8, 2023 – Jason M. Casuga, CE/CEO

   e. Report on the San Juan Chama Project Triannual Contractors Meeting, November 28, 2023 – Jason M. Casuga, CE/CEO and Pamela Fanelli, CFO

   f. Report on the Six Middle Rio Grande Pueblos Coalition Meeting, December 7, 2023 – Eric Zamora, COO, Casey Ish, Conservation Program Supervisor, Anne Marken, Water Operations Manager and Jason M. Casuga, CE/CEO

   g. Information on Upcoming Events
      1. Family Farm Alliance Annual Conference, Reno, NV | February 22-23, 2024
      2. Land and Water Summit, Albuquerque, NM | March 6-8, 2024
      3. National Water Resources Association (NWRA) 2024 Policy Conference, Washington DC | April 9-11, 2024
      4. Law of the Rio Grande Conference, Santa Fe, NM | April 11-12, 2024

6:50 16. **Report(s) from the MRGCD Attorney(s) – Chief Water Counsel or General Counsel**

7:00 17. **Report(s) from the Board**
   a. Report on the Conservation Advisory Committee Meeting, November 16, 2023 – Chair Russo Baca
   b. Report on the NM Acequia Association Congreso de las Acequias, November 17-18, 2023, Chair Russo Baca
   c. Report on the NM Northern Wetlands Roundtable, November 29, 2023 – Chair Russo Baca
   d. Report on the Valencia County Commission Meeting, December 6, 2023 – Chair Russo Baca
   e. Report on the Village of Los Lunas Council Meeting, December 7, 2023 – Chair Russo Baca

7:15 18. **Executive Session**
   a. NMSA 1978 Open Meetings Act, Section 10-15-1(H)2
      1. Limited Personnel Matters

   b. NMSA 1978 Open Meetings Act, Section 10-15-1(H)7
      1. Threatened or Pending Litigation

Check Number	Vendor Name	Check Amount	Description	Location
EFT	NEW MEXICO TAXATION & REVENUE DEPARTMENT	21,576.78	OCTOBER 2023 WITHHOLDING TAX	
EFT	PAYROLL	305,786.51	PAY PERIOD 22	
EFT	PERA	106,893.53	PAY PERIOD 22	
EFT	IRS	40,714.18	PAY PERIOD 22	
EFT	VOYA DEFERRED COMP	8,459.00	PAY PERIOD 22	
EFT	PAYROLL	308,648.51	PAY PERIOD 23	
EFT	PERA	106,750.99	PAY PERIOD 23	
EFT	IRS	42,501.91	PAY PERIOD 23	
EFT	VOYA DEFERRED COMP	8,326.00	PAY PERIOD 23	
	TOTAL PAYROLL	**949,657.41**		
149243	A-1 QUALITY REDI-MIX	537.88	FY24 BUDGET CONCRETE/ SHOTCRETE	SOCORRO DIVISION
149244	ACTION HOSE INC.	138.78	HOSE UNIT 47022	ALBUQUERQUE DIVISION
149245	ALL AMERICAN PUMPING	115.00	OCT23- PORTABLE TOILET RENTAL	SOCORRO DIVISION
149246	AMAZON CAPITAL	141.92	FLASH DRIVES	INFORMATION SYS
149247	ANDRESON	338.00	TARP UNIT 44422	ALBUQUERQUE DIVISION
149248	AUTOMATED ELECTION	267,193.37	ELECTION DIRECTOR/ MANAGEMENT OF 2023 ELECTION	BOARD OF DIRECTORS
149249	BANK OF AMERICA	114.41	FINANCE CHARGE	ACCOUNTING
		205.78	HOTEL-E. GAMBOA TRUE POINT CONNECT	ACCOUNTING
149250	BJW VENTURES, LLC	150.00	LED LAMPS UNIT 65103	SOCORRO DIVISION
		295.00	SEAT COVER UNIT 53462	ALBUQUERQUE DIVISION
149251	BOOT BARN	150.00	FY24- BOOT VOUCHER	WATER DISTRIBUTION DIV
		150.00	FY24- BOOT VOUCHER	SOCORRO DIVISION
149252	CENTURY EQUIPMENT	717.93	ELBOW, SWITCHES, & BOOT UNIT 57023	BELEN DIVISION
		208.15	MISC. PARTS UNIT 57025	BELEN DIVISION
		148.41	MISC. PARTS UNIT 57026	BELEN DIVISION
149253	CHASE MECHANICAL LLC	262.50	SERVICE CALL-HEATER NOT WORKING	GENERAL OFFICE
149254	CHOICE STEEL COMPANY	1,703.38	METAL FLAT PLATES	ALBUQUERQUE DIVISION
149255	CONSTRUCTION RENTAL	103.53	FEED SWITCH UNIT 4448.040	BELEN DIVISION
149256	CRITTERS OIL CHANGE	75.00	OIL CHANGE UNIT 53453	BELEN DIVISION
149257	DELTA DENTAL	11,022.43	NOV23- DELTA DENTAL FY2024	GENERAL FUND
149258	GENSLER, DAVID	338.63	OCT23- RETIREE	HUMAN RESOURCES
149259	GPS, LLC	115.76	SCHEDULED MAINTENANCE-UNIT# 63340	SOCORRO DIVISION
149260	GRAINGER	363.35	CONTAINMENT BERM	ALBUQUERQUE DIVISION
149261	GREENWOOD, JEFFREY C	350.57	NOV23- RETIREE	HUMAN RESOURCES
149262	HM LIFE INSURANCE	1,380.48	NOV23 - DAVIS VISION FY2024	GENERAL FUND
149263	HONNEN EQUIPMENT CO	146.18	FILTER KIT UNIT 67504	SOCORRO DIVISION
		188.64	OIL LINE & INSULATOR UNIT 47018	ALBUQUERQUE DIVISION
149264	IMSCO DIVISION	39.80	2007 LOCKS	INVENTORY
		42.07	BEARING UNIT 47022	ALBUQUERQUE DIVISION
149265	JIFFY LUBE	63.44	CHIP REPAIRS UNIT 54418	BELEN DIVISION
149266	LAMINEX, INC	835.62	MRGCD NAME BADGES / HR	HUMAN RESOURCES
149267	MARQUEZ, DENNIS M	1,222.58	NOV23- RETIREE	HUMAN RESOURCES
		1,222.58	OCT23- RETIREE	HUMAN RESOURCES
149268	MELLOY FORD LOS LUNA	184.77	FLYWHEEL/HARDWARE UNIT 54017	BELEN DIVISION
149269	MRGCD PETTY CASH EA	40.42	OCT23- WALMART SUPPLIES	BELEN DIVISION
149270	NEW MEXICO TRACTOR S	72.65	MISC SUPPLIES	BELEN DIVISION
		1,000.00	NEW WINDSHIELD/WEATHERSTRIP UNIT 57026	BELEN DIVISION
		80.00	WEATHERSTRIP UNIT 57022	BELEN DIVISION
		920.00	WINDSHIELD UNIT 57022	BELEN DIVISION
149271	O'REILLY AUTO PARTS	44.99	CABIN AIR FILTER UNIT 80020	WATER DISTRIBUTION DIV
149272	OCCUPATIONAL HEALTH	229.25	DOT RECERT & PRE EMPLOYMENT SCREENINGS	ALBUQUERQUE DIVISION

Check Number	Vendor Name	Check Amount	Description	Location
		229.25	DOT RECERT & PRE EMPLOYMENT SCREENINGS	COCHITI DIVISION
		103.32	DOT RECERT & PRE EMPLOYMENT SCREENINGS	EQUIPMENT REPAIR & TRANS
		229.25	DOT RECERT & PRE EMPLOYMENT SCREENINGS	WATER DISTRIBUTION DIV
149273	PROFESSIONAL SURVEY	4,089.75	BOUNDARY SURVEY- HARLAN LATERAL, MAP 93	ACCOUNTING
149274	PURCELL TIRE COMPANY	26.75	TIRE REPAIR UNIT 23416	WATER OPERATIONS
		26.75	TIRE REPAIR UNIT 80013	WATER DISTRIBUTION DIV
		765.30	TIRE REPAIR/SERVICE CALL UNIT 47018	ALBUQUERQUE DIVISION
		162.39	TIRE UNIT 49103	ALBUQUERQUE DIVISION
149275	RAKS BUILDING SUPPLY	8.76	SUPPLIES NEEDED FOR GATE REPAIR ON 4014SOCMC	SOCORRO DIVISION
149276	RANDY'S ACE HARDWARE	47.05	PARTS NEEDED-UNIT# 67304 2011 CAT LR EXCAVATOR	SOCORRO DIVISION
149277	ROBERTS TRUCK CENTER	80.68	AIR GOVERNOR UNIT 74201	EQUIPMENT REPAIR & TRANS
149278	RUSSO BACA, STEPHANI	123.97	ACTUAL EXPENSES OCT 3-5, 2023 INAUGURAL CRGWU	BOARD OF DIRECTORS
149279	SANDOVAL, MICHAEL T	130.92	ACTUAL EXPENSES OCT 3-5, 2023 INAUGURAL CRGWU	BOARD OF DIRECTORS
149280	SOCORRO COUNTY CLERK	25.00	RELEASE OF LIEN	ACCOUNTING
149281	SORBCO	19.84	PARTS UNIT 57021	BELEN DIVISION
149282	SOUTHERN TIRE MART	817.24	TIRES UNIT 444190	ALBUQUERQUE DIVISION
149283	STAPLES ADVANTAGE	65.28	CARDSTOCK / HR	NON DIVISION
		100.74	OFFICE SUPPLIES	INFORMATION SYS
		13.62	OFFICE SUPPLIES	GENERAL OFFICE
149284	TNT STARTERS AND ALT	205.00	ALTERNATOR UNIT 47203	ALBUQUERQUE DIVISION
149285	UNICOR	248.32	OCT23- SHRED BINS PICKUP	ACCOUNTING
149286	UNUM LIFE INSURANCE	3,937.21	OCT23- LIFE, AD&D, STD, & LTD- ACCT# 0692501-001 2	GENERAL FUND
		7,484.44	OCT23- UNUM LIFE EMPLOYER - ACCT# 0692500-001 5	GENERAL FUND
149287	WAGNER EQUIPMENT CO.	123.08	O-RINGS, FILTER, & CABLE UNIT 67304	SOCORRO DIVISION
149288	WIPER SUPPLY INC	671.50	SHOP TOWELS	INVENTORY
149289	4 RIVERS EQUIPMENT	1,119.74	DEF DOSING PUMP UNIT 67504	SOCORRO DIVISION
149290	ACOSTA EQUIPMENT INC	39.98	FIELD SUPPLIES NEEDED	SOCORRO DIVISION
		3.49	PART FOR POLE SAW NEEDED FOR FIELD WORK	SOCORRO DIVISION
149291	ACTION HOSE INC.	63.01	HOSE UNIT 47024	ALBUQUERQUE DIVISION
149292	ALBUQUERQUE FREIGHT	155.18	BLOWER MOTOR & HARNESS UNIT 54601	BELEN DIVISION
149293	ALLSTATE HYDRAULICS	992.15	R&R CYLINDER UNIT 57023	BELEN DIVISION
		639.20	R&R HYDRAULIC CYLINDER UNIT 57025	BELEN DIVISION
		1,557.36	R&R HYDRAULIC CYLINDER UNIT 57308	BELEN DIVISION
149294	BANK OF AMERICA	420.00	NMDWOC 2023 CONFERENCE REGISTRATION	ENGINEERING & MAPPING
		39.99	NOV23- INTERMEDIA MONTHLY	INFORMATION SYS
		782.80	TOWING EXPENSE FOR UNIT 43446	ALBUQUERQUE DIVISION
149295	BOYD-SHUCK NAPA	103.54	REPAIR-UNIT# 65103 5YRD DUMP TRUCK	SOCORRO DIVISION
149296	CENTURY EQUIPMENT	280.85	MISC. PARTS UNIT 57027	BELEN DIVISION
		225.52	SPACERS UNIT 47022	ALBUQUERQUE DIVISION
149297	CENTURY LINK	80.24	505-864-7466 429B OCT23	BELEN DIVISION
149298	CHILD SUPPORT ENFORCE	1,370.31	PAYROLL GARNISHMENT	GENERAL FUND
149299	CITY OF ALBUQUERQUE	183,469.32	NOV23- PRESBYTERIAN COA001401362	GENERAL FUND
149300	CITY OF BELEN	2,508.66	25 GENERAL E BACA OCT23	BELEN DIVISION
149301	CONSTRUCTION RENTAL	901.66	STIHL SUPPLIES	INVENTORY
149302	CONTINENTAL BATTERY	174.08	BATTERIES UNIT 80001, UNIT 53468	WATER DISTRIBUTION DIV
		74.46	BATTERY UNIT 63440	SOCORRO DIVISION
	FEYGIN, DANIELLE	284.27	EXPENSES TUCSON, AZ TO ABQ, NM 10/22-27,'23	ENGINEERING & MAPPING
149304	FLEETPRIDE	82.82	BLOWER MOTOR UNIT 44415	ALBUQUERQUE DIVISION
		65.03	BRAKE CHAMBER UNIT 44417	ALBUQUERQUE DIVISION
149305	GENUINE NAPA	64.16	HYD HOSE FITTINGS NEEDED FOR REPAIR ON UNIT#37104	BELEN DIVISION
		40.61	HYDRAULIC HOSE REPAIRS UNIT 57025	BELEN DIVISION
		163.96	LIFT HOOD SUPPORT UNIT 57028	BELEN DIVISION
		190.64	STARTER UNIT 54017	BELEN DIVISION
149306	NEOTEL CORPORATION	273.03	OCT23- ANNUAL PRESS CLIPPING SERVICE	NON DIVISION

Check Number	Vendor Name	Check Amount	Description	Location
149307	GOVERNMENT PORTFOLIO	940.27	SEPT23- INVESTMENT ADVISOR FEES	ACCOUNTING
149308	GRAINGER	173.91	LINEAR ACTUATOR UNIT 23801	ALBUQUERQUE DIVISION
		27.09	TIMING BELT	ALBUQUERQUE DIVISION
149309	HIGH DESERT INDUSTRI	122.81	REFILL OXYGEN AND ACETYLENE BOTTLES	BELEN DIVISION
149310	INLAND KENWORTH INC.	506.17	MISC PARTS UNIT 74803	EQUIPMENT REPAIR & TRANS
149311	JOSE M. AGUILAR J.A	268.39	FLAT REPAIR UNIT 57026	BELEN DIVISION
149312	LEVEL 3 FINANCING IN	1,414.39	INTERNET ACCT 91761706 NOV23	COCHITI DIVISION
		242.77	INTERNET: OCT23	BELEN DIVISION
		933.75	INTERNET: OCT23	INFORMATION SYS
		242.77	INTERNET: OCT23	SOCORRO DIVISION
149313	MAINTENANCE SERVICE	414.10	NOV23-ABQ DIVISION JANITORIAL CLEANING	ALBUQUERQUE DIVISION
		2,036.03	NOV23-JANITORIAL CLEANING	GENERAL OFFICE
149314	MARTINEZ, DANIEL	528.22	NOV23- RETIREE	HUMAN RESOURCES
149315	MATHESON TRI-GAS INC	77.17	CLEANER, DEVELOPER, & PENETRANT	EQUIPMENT REPAIR & TRANS
149316	MCT INDUSTRIES, INC.	125.03	TARP ARM PIVOT ASSEMBLY UNIT 444190	ALBUQUERQUE DIVISION
		225.50	TRAILER JACK UNIT 64111	SOCORRO DIVISION
		230.97	VALVE UNIT 444190	ALBUQUERQUE DIVISION
149317	MRGCD PETTY CASH	0.23	OCT23- GAMBOA- TRAVEL REIMBUR	ACCOUNTING
		16.13	OCT23- HARBOR FREIGHT	EQUIPMENT REPAIR & TRANS
149318	MUNOZ, OCTAVIO	1,033.20	RELEASE AGREEMENT COMMUNITY ACTION PARTNERSHIP	NON DIVISION
149319	NAPA AUTO PARTS	10.19	BULB UNIT 80001	WATER DISTRIBUTION DIV
		43.89	CAP UNIT 73611	EQUIPMENT REPAIR & TRANS
		32.54	MUD FLAP UNIT 44422	ALBUQUERQUE DIVISION
		29.97	UTILITY KNIFE, BLADE	EQUIPMENT REPAIR & TRANS
		30.02	SHOP SUPPLIES	EQUIPMENT REPAIR & TRANS
149320	NEW MEXICO GAS CO	56.86	052707401-0553979-2 OCT23	BELEN DIVISION
149321	PNM	16.80	015803801-0241242-6 OCT23	ALBUQUERQUE DIVISION
		247.88	022089701-0297049-6 OCT23	EQUIPMENT REPAIR & TRANS
		1,407.87	022638203-0301840-0 OCT23	NON DIVISION
		13.91	022638203-1448347-6 OCT23	ALBUQUERQUE DIVISION
		10.38	023488000-1253871-3 OCT23	ALBUQUERQUE DIVISION
		59.66	032302200-0382043-5 OCT23	ALBUQUERQUE DIVISION
		33.48	090599001-0928871-4 OCT23	ALBUQUERQUE DIVISION
		14.78	090726300-0929774-2 OCT23	ALBUQUERQUE DIVISION
		359.13	091655202-0937641-7 OCT23	ALBUQUERQUE DIVISION
149322	POWER FORD	39.88	SEAL KIT UNIT 73611	EQUIPMENT REPAIR & TRANS
149323	PRINT EXPRESS	92.00	BUSINESS CARDS	HUMAN RESOURCES
149324	PRUDENTIAL OVERALL S	50.00	FY24-UNIFOM RENTAL	BELEN DIVISION
		104.26	FY24-UNIFOM RENTAL	EQUIPMENT REPAIR & TRANS
149325	PURCELL TIRE COMPANY	410.38	WHEELS-MOUNT/DISMOUNT UNIT 54419	ALBUQUERQUE DIVISION
149326	QUADIENT, INC.	3,000.00	REPLENISH POSTAGE MACHINE/ACCT# 8081327	NON DIVISION
149327	QUEST DIAGNOSTICS	259.50	DOT RANDOM & POST ACCIDENT SCREENINGS	BELEN DIVISION
		55.60	DOT RANDOM & POST ACCIDENT SCREENINGS	COCHITI DIVISION
		55.60	DOT RANDOM & POST ACCIDENT SCREENINGS	EQUIPMENT REPAIR & TRANS
		37.10	DOT RANDOM & POST ACCIDENT SCREENINGS	SOCORRO DIVISION
		37.10	POST ACCIDENT & PRE EMPLOYMENT SCREENINGS	EQUIPMENT REPAIR & TRANS
		37.10	POST ACCIDENT & PRE EMPLOYMENT SCREENINGS	CONSERVATION/PLANNING
		40.20	POST ACCIDENT & PRE EMPLOYMENT SCREENINGS	PURCHASING
149328	ROBERTS TRUCK CENTER	11,998.30	BODY DAMAGE REPAIRS UNIT 74201 SERVICE TRUCK	EQUIPMENT REPAIR & TRANS
		41,396.86	BODY DAMAGE REPAIRS UNIT 74201 SERVICE TRUCK	EQUIPMENT REPAIR & TRANS
		786.43	MIRROR, WINDOW GLASS (LH,RH), & SEALS UNIT 65104	SOCORRO DIVISION
149329	SILVA'S AUTO TIRE	70.00	MOUNT NEW TIRES UNIT 80032	WATER DISTRIBUTION DIV
149330	SNELLING	821.70	ABQ DIVISION TEMP- 30.00 HRS 10/17-10/19	ALBUQUERQUE DIVISION
		828.55	ABQ DIVISION TEMP- 30.00 HRS 10/23-10/26	ALBUQUERQUE DIVISION

Check Number	Vendor Name	Check Amount	Description	Location
		222.03	TEMP HELP- 3.0 HRS- CONTROLLER (10/17/23)	ACCOUNTING
149331	SOCORRO ELECTRIC	136.05	10268009 - OCT23	SOCORRO DIVISION
149332	SOUTHWEST CONSTRUCTION	1,530.36	CUTTING EDGES & HARDWARE UNIT 67504	SOCORRO DIVISION
		328.59	EDGES & HARDWARE UNIT 37308	COCHITI DIVISION
		109.87	MISC PARTS UNIT 37107	COCHITI DIVISION
149333	SPECIALTY COMM.	322.88	OCT23 - RADIO REPEATER	NON DIVISION
149334	STAPLES ADVANTAGE	330.52	INK CARTRIDGES	INVENTORY
149335	STATE OF NEW MEXICO	258.21	PAYROLL GARNISHMENT	GENERAL FUND
149336	TAS SECURITY SYSTEMS	37.61	CUST# 23247- BELEN - NOV23	BELEN DIVISION
149337	TECHNOLOGY INTEGRATION	579.63	OCT23- DATTO SAAS PROTECTION MICROSOFT	INFORMATION SYS
		4,277.79	SEPT23 & OCT23 - DATTO ANNUAL RENEWAL	INFORMATION SYS
		573.94	SEPT23- DATTO SAAS PROTECTION MICROSOFT	INFORMATION SYS
149338	THOMASON LAW FIRM	138.39	PAYROLL GARNISHMENT	GENERAL FUND
149339	TRANSCRIPTION	806.13	OCT23 -REGULAR BOARD MEETING MINUTES	BOARD OF DIRECTORS
149340	TRUEPOINT SOLUTIONS,	6,105.00	SEPT23- IMPLEMENTATION SERVICES	**GRANTS FUND GO**
149341	UNIFIRST CORP	63.75	FY24- UNIFORM RENTAL	SOCORRO DIVISION
149342	WILSON & COMPANY	13,768.09	9/9/23-10/6/23 - BELEN WATERSHED DOCUMENTS	**GRANTS FUND GO**
149343	ABCWUA	644.81	1931 2ND SW 4382929560 OCT23	GENERAL OFFICE
		480.12	3062929560 OCT23	ALBUQUERQUE DIVISION
		213.59	4158566487 HYDRANT OCT23	ALBUQUERQUE DIVISION
		138.33	5596579560 1932 2ND OCT23	EQUIPMENT REPAIR & TRANS
149344	BANK OF AMERICA	855.15	DANIELLE FEYGIN HOTEL 10/22-27/23	ENGINEERING & MAPPING
		200.00	LICENSE FEE FOR SOIL LAB	SOILS LAB
		2.16	OCT23- ZENDESK MONTHLY CHARGE	INFORMATION SYS
		146.26	PARIS HOTEL DEPOSIT LAS VEGAS, NV 12/12-15/2023	BOARD OF DIRECTORS
		146.26	PARIS HOTEL DEPOSIT LAS VEGAS, NV 12/12-15/2023	EXEC TEAM
		2.16	SEPT23- ZENDESK MONTHLY CHARGE	INFORMATION SYS
149345	BENAVIDEZ, CAROL	451.45	NOV23- RETIREE	HUMAN RESOURCES
149346	BERNALILLO COUNTY CL	25.00	RELEASE OF LIEN	ACCOUNTING
149347	FRANK'S SUPPLY CO	37,174.50	32" TRENCH ROLLER WITH REMOTE	SOCORRO DIVISION
149348	MARQUEZ, BELLINA C	720.74	NOV23- RETIREE	HUMAN RESOURCES
149349	RED SHOVEL LLC	523.17	NOV23- GROUNDS MAINTENANCE	GENERAL OFFICE
149350	SOCORRO COUNTY CLERK	50.00	RELEASE OF LIENS	ACCOUNTING
149351	V-VARGAS, ERMELIND	351.84	NOV23- RETIREE	HUMAN RESOURCES
149352	VALENCIA COUNTY CLERK	100.00	RELEASE OF LIENS	ACCOUNTING
149353	WEX BANK	81,195.61	WEX FUEL OCT23: UNL $24,153 DSL $56,930 FEES $112	MULTIPLE DEPTS/DIVISIONS
149354	4 RIVERS EQUIPMENT	2,224.26	BUSHINGS, PINS, SEALS, & SHIMS UNIT 57205	BELEN DIVISION
		(100.00)	CREDIT CORE CHARGE INV 1547951 PO 20241571	SOCORRO DIVISION
		33.58	HOSE UNIT 47113	ALBUQUERQUE DIVISION
		300.89	PUMP UNIT 47311	ALBUQUERQUE DIVISION
149355	ACOSTA EQUIPMENT INC	153.47	WELDING SUPPLIES NEEDED	SOCORRO DIVISION
149356	ACTION HOSE INC.	75.33	BALL VALVE UNIT 34603	COCHITI DIVISION
		20.76	FITTINGS UNIT 47022	ALBUQUERQUE DIVISION
		238.15	HOSE UNIT 47024	ALBUQUERQUE DIVISION
		121.57	NOZZLE UNIT 64602	SOCORRO DIVISION
149357	ALBUQUERQUE BOLT	833.00	ABQ WAREHOUSE BOLT SHELF REPLENISHMENT	ALBUQUERQUE DIVISION
149358	ALBUQUERQUE POWER	29.39	CHAIN SPROCKET UNIT 6627.95	ALBUQUERQUE DIVISION
149359	ALLSTATE HYDRAULICS	2,540.00	PTO PUMP UNIT 34603	COCHITI DIVISION
		1,776.65	R&R HYDRAULIC CYLINDERS UNIT 57108	BELEN DIVISION
149360	ATMAX EQUIPMENT CO	171.42	SKID SHOE UNIT 47029	ALBUQUERQUE DIVISION
149361	AUTOZONE, INC	89.99	KIT UNIT 74203	EQUIPMENT REPAIR & TRANS
149362	AVALLONE, SARAH	280.67	NOV23- RETIREE	HUMAN RESOURCES
149363	AWARDS ETC	7.50	NAME PLATE- J GAMBOA	ACCOUNTING
149364	BANK OF AMERICA	152.04	REGISTRATION 68TH NM WATER CONFERENCE	EXEC TEAM

Check Number	Vendor Name	Check Amount	Description	Location
149365	BARNHILL BOLT CO	110.62	LOCKNUTS & BOLTS UNIT 65103	SOCORRO DIVISION
		115.78	MOWER HARDWARE	INVENTORY
149366	BJW VENTURES, LLC	100.00	BLUE LED LAMP UNIT 65103	SOCORRO DIVISION
		280.00	SEAT COVER UNIT 63808	SOCORRO DIVISION
149367	BOBCAT OF ALBUQUERQUE	425.69	IDLER PULLEY UNIT 47203	ALBUQUERQUE DIVISION
149368	BOYD-SHUCK NAPA	85.49	REPAIR-UNIT# 80017 2019 FORD F-150 TRUCK	SOCORRO DIVISION
		96.84	REPAIR-UNIT# 8425.21 2012 ALAMO BATWING MOWER	SOCORRO DIVISION
149369	BRUCKNER TRUCK SALES	46.72	RELAY UNIT 44415	ALBUQUERQUE DIVISION
		67.81	RELAY/SOLENOID UNIT 44415	ALBUQUERQUE DIVISION
149370	CHACON, MARK	146.33	NOV23- RETIREE	HUMAN RESOURCES
149371	CHOICE STEEL COMPANY	16.56	HINGES	ALBUQUERQUE DIVISION
		373.90	HINGES & ANGLE IRON	ALBUQUERQUE DIVISION
149372	CONSTRUCTION RENTAL	282.24	MISC. STIHL PARTS UNIT 6628.05	ALBUQUERQUE DIVISION
		79.95	OIL PUMPS UNIT 6628.12 & 6627.95	ALBUQUERQUE DIVISION
		620.99	POLE PRUNER	ALBUQUERQUE DIVISION
		16.98	SPARK PLUG & FILTER UNIT 6627.95	ALBUQUERQUE DIVISION
		1,412.52	STHIL SUPPLIES	INVENTORY
149373	DESERT GREENS EQUIP	559.26	MISC. PARTS UNIT 67017	SOCORRO DIVISION
		120.44	MISC. PARTS UNIT 67018	SOCORRO DIVISION
		757.65	SENSOR & KIT UNIT 47025	ALBUQUERQUE DIVISION
149374	TIMBRES, JUAN	604.00	RODENT MANAGEMENT- SAN ACACIA FEEDER	SOCORRO DIVISION
149375	GENUINE NAPA	147.86	ENGINE OIL PRESSURE SENSOR UNIT 54414	BELEN DIVISION
		57.98	HOSE PINCH OFF PLIERS NEEDED FOR SHOP SUPPLY	BELEN DIVISION
		93.86	MISC PARTS	BELEN DIVISION
		13.49	STEERING WHEEL COVER UNIT 54017	BELEN DIVISION
		36.08	TRUCK SUPPLIES/TOOLS	BELEN DIVISION
149376	GOMEZ, RAY	2,744.54	NOV23- RETIREE	HUMAN RESOURCES
149377	GONZALEZ, JOSE A	100.00	RODENT MANAGEMENT- HARLAN/HIGHLINE	BELEN DIVISION
149378	GPS, LLC	72.15	TIRE REPAIR UNIT# 35801 1994 JD TRACTOR MOWER	SOCORRO DIVISION
		29.61	TIRE REPAIR-UNIT# 8580.08 TOYOTA FORKLIFT	SOCORRO DIVISION
149379	HIGH DESERT CONCRETE	7,346.65	POLISHED CONCRETE COCHITI DIVISION	COCHITI DIVISION
149380	HOME DEPOT CREDIT	416.46	CONSTRUCTION/WELD SHOP TOOLS	ALBUQUERQUE DIVISION
		525.00	GIFT CARDS FOR CONSERVATION SURVEY	**GRANTS FUND GO**
		53.56	WATER HOSES & ADAPTERS	EQUIPMENT REPAIR & TRANS
149381	INLAND KENWORTH INC.	390.36	BUSHINGS UNIT 65103	SOCORRO DIVISION
		23.10	MISC PARTS UNIT 74803	EQUIPMENT REPAIR & TRANS
149382	IRON HORSE WELDING,	2,517.90	MISC. KUBOTA EXCAVATOR PARTS UNIT 47302	ALBUQUERQUE DIVISION
149383	JIFFY LUBE	71.17	OIL CHANGE FOR ISO UNIT 33440	WATER DISTRIBUTION DIV
149384	JOSE M. AGUILAR J.A	176.69	TIRE REPAIR UNIT 57022	BELEN DIVISION
		198.27	TIRE REPAIR UNIT 57025	BELEN DIVISION
		268.39	TIRE REPAIR UNIT 57026	BELEN DIVISION
149385	MARKEN, ANNE	15.08	EXPENSES TRIBAL WATER LAW CONFERENCE	WATER OPERATIONS
149386	MATHESON TRI-GAS INC	84.50	WHEELS & DISCS FOR ABQ DIVISION	ALBUQUERQUE DIVISION
149387	MORA, RUBEN	564.10	NOV23- RETIREE	HUMAN RESOURCES
149388	MOTION INDUSTRIES	1,694.45	GEAR BOX	WATER OPERATIONS
149389	NAPA AUTO PARTS	9.91	CIRCUIT TESTER	EQUIPMENT REPAIR & TRANS
		55.05	BATTERY TERMINAL & KNEE PADS UNIT 73612	EQUIPMENT REPAIR & TRANS
		16.10	CLEANER FOR ER&T	EQUIPMENT REPAIR & TRANS
		42.85	CONNECTOR UNIT 74203	EQUIPMENT REPAIR & TRANS
		26.92	KITS UNIT 44420 & 47025	ALBUQUERQUE DIVISION
		18.06	LENS UNIT 44412	ALBUQUERQUE DIVISION
		14.15	MISC PARTS UNIT 73611	EQUIPMENT REPAIR & TRANS
		220.31	SOLENOID	EQUIPMENT REPAIR & TRANS
149390	POSTMASTER	100.00	FY24- POST OFFICE BOX 1291 RENEWAL FEE	BELEN DIVISION

Check Number	Vendor Name	Check Amount	Description	Location
149391	POWER EQUIPMENT	15.20	FREIGHT UNIT 67306	SOCORRO DIVISION
		2,171.72	REPAIR-UNIT# 67306 2023 VOLVO MOBILE EXCAVATOR	SOCORRO DIVISION
		1,523.00	SENSOR KIT UNIT 47313	ALBUQUERQUE DIVISION
		65.53	SWITCH UNIT 67306	SOCORRO DIVISION
		398.66	WINDOW & SEALING STRIP UNIT 47308	ALBUQUERQUE DIVISION
149392	PREVENTIVE PEST	235.06	GENERAL PEST CONTROL	EQUIPMENT REPAIR & TRANS
149393	PURCELL TIRE COMPANY	216.86	MOUNT/DISMOUNT UNIT 47019	ALBUQUERQUE DIVISION
		1,142.10	TIRE AND TUBE ORDER	INVENTORY
		323.45	TIRE REPAIR UNIT 47018	ALBUQUERQUE DIVISION
		197.40	TIRE UNIT 43806	ALBUQUERQUE DIVISION
		853.80	TIRES UNIT 43806	ALBUQUERQUE DIVISION
149394	RELEVANT INDUSTRIAL	130.52	HOSES UNIT 47308	ALBUQUERQUE DIVISION
		361.16	HYDRAULIC HOSE REPAIRS UNIT 57310	BELEN DIVISION
		59.85	VALVE & FITTINGS UNIT 74203	EQUIPMENT REPAIR & TRANS
149395	ROMERO, ALFRED	362.56	NOV23- RETIREE	HUMAN RESOURCES
		362.56	OCT23- RETIREE	HUMAN RESOURCES
149396	RUSH TRUCK CENTERS	108.92	STUDS & NUTS UNIT 65103	SOCORRO DIVISION
149397	SANDOVAL, MICHAEL T	88.46	TRIBAL WATER LAW CONFERENCE	BOARD OF DIRECTORS
149398	TAS SECURITY SYSTEMS	1,290.85	BELEN ALARM SYSTEM UPGRADE	BELEN DIVISION
149399	THOMPSON SAFETY LLC	83.25	SAFETY HARD HATS	INVENTORY
149400	U.S. DISTRIBUTING	259.64	FUEL PRESSURE REGULATOR- UNIT 73611	EQUIPMENT REPAIR & TRANS
149401	A-1 QUALITY REDI-MIX	557.38	FY24 BUDGET CONCRETE/ SHOTCRETE	SOCORRO DIVISION
149402	ACTION HOSE INC.	55.69	HOSE UNIT 47024	ALBUQUERQUE DIVISION
149403	ALBUQUERQUE PUB	103.40	NOV23 VALENCIA CO NEWS-BOARD MEETING NOTICE	BOARD OF DIRECTORS
		106.16	NOV23- ABQ JOURNAL BOARD MEETING NOTICE	BOARD OF DIRECTORS
		103.65	NOV23- EL DEFENSOR BOARD MEETING NOTICE	BOARD OF DIRECTORS
149404	AMAZON CAPITAL	179.00	FY24- PLAN RENEWAL	NON DIVISION
149405	BAKER UTILITY SUPPLY	11,160.00	24 INCH HDP PIPE	INVENTORY
149406	BETSY ROSS FLAG GIRL	405.00	USA / NEW MEXICO FLAGS	GENERAL OFFICE
149407	BOHANNAN HUSTON	2,949.83	OCT23 - IRRIGATION ASSESSMENT	ENGINEERING & MAPPING
		8,547.59	OCT23- FEEDER 3 STATION	**CAPITAL INVESTMENT FUND ENG**
		384.22	SAN ACACIA LEVEE CERT- USACE CO- OCT23	ENGINEERING & MAPPING
149408	CENTURY EQUIPMENT	53.82	MISC. PARTS UNIT 57027	BELEN DIVISION
149409	CENTURY LINK	164.21	575-835-1454 245B NOV23	SOCORRO DIVISION
149410	CHILD SUPPORT ENFORCE	1,370.31	PAYROLL GARNISHMENT	GENERAL FUND
149411	CITY OF SOCORRO	312.58	04-009470-001 OCT23	SOCORRO DIVISION
149412	CRAIG INDEPENDENT	150.33	ALIGNMENT/MOUNT UNIT 54018	BELEN DIVISION
		199.49	TIRE PRESSURE SENSORS REPLACED UNIT 53452	BELEN DIVISION
		39.14	TIRE REPAIR UNIT 54416	WATER DISTRIBUTION DIV
		42.20	TIRE REPAIR UNIT 57116	BELEN DIVISION
149413	DESERT GARDENS	1,936.13	VEGETATION REMOVAL 252-2023	LICENSING & LAND SALES
		11,031.56	VEGETATION REMOVAL 293-2023	LICENSING & LAND SALES
149414	DMC LOGISTICS	412.60	NOV23 -DELIVERY OF BOD MEETING PACKETS	BOARD OF DIRECTORS
149415	EVERGREEN SOLUTIONS	9,735.00	OCT23 - COMPENSATION STUDY	NON DIVISION
149416	FINANCE AUTHORITY	11,617.90	NOV23 EQUIPMENT	**DEBT SERVICE**
		17,814.33	PPRF-4727 NOV23 EQP. PURCHASE	**DEBT SERVICE**
149417	FLEETPRIDE	3,153.38	KIT & TURBOCHARGER UNIT 65103	SOCORRO DIVISION
149418	GENUINE NAPA	31.17	MISC PARTS UNIT 53459	BELEN DIVISION
		42.29	MISC PARTS UNIT 54110	BELEN DIVISION
		52.07	MISC PARTS UNIT 54414	BELEN DIVISION
		18.59	MISC PARTS UNIT 54422	BELEN DIVISION
149419	GILBERT GARCIA & SON	648.00	HOCKEY POCK LOCKS FOR GAUGING STATIONS	WATER OPERATIONS
149420	GPS, LLC	107.69	TIRES REPLACED-UNIT# 80030 2022 FORD F150 4X4	SOCORRO DIVISION
149421	GRAINGER	42.59	BELT FOR ISLETA PUMP	ALBUQUERQUE DIVISION

Check Number	Vendor Name	Check Amount	Description	Location
		(27.09)	CREDIT TIMING BELT INV 9874351787 PO 20241431	ALBUQUERQUE DIVISION
		24.15	OIL SEAL PURCHASE	WATER OPERATIONS
149422	HEIGHTS SECURITY	41.00	LOCK AND KEYS FOR ABQ WAREHOUSE	ALBUQUERQUE DIVISION
149423	JACQUEZ, JUAN	1,272.00	RODENT MANAGEMENT- SOCORRO NORTH MAIN	SOCORRO DIVISION
149424	JIRON, BRIAN	181.35	MILEAGE FOR TRIBAL WATER LAW CONFERENCE	BOARD OF DIRECTORS
149425	LAW & RESOURCE	4,785.09	OCT23 COUNSEL	NON DIVISION
149426	MATHESON TRI-GAS INC	730.20	PARTS AND REPAIRS UNIT 8921.32	BELEN DIVISION
149427	MELLOY FORD LOS LUNA	72.40	TRANS FILTER/SEAL UNIT 80002	WATER DISTRIBUTION DIV
149428	MIDDLE RIO GRANDE FL	150.00	2023 ANNUAL MRGFCA BREAKFAST	BOARD OF DIRECTORS
		25.00	2023 ANNUAL MRGFCA BREAKFAST	ADMINISTRATION
		75.00	2023 ANNUAL MRGFCA BREAKFAST	EXEC TEAM
		25.00	2023 ANNUAL MRGFCA BREAKFAST	WATER OPERATIONS
149429	MIDDLE RIO GRANDE FL	25.00	2023 ANNUAL MRGFCA BREAKFAST	ENGINEERING & MAPPING
149430	NED'S PIPE & STEEL	44.48	WHEEL CASTERS	BELEN DIVISION
149431	NEW MEXICO TRACTOR S	29.98	OIL WRENCH UNITS 54205 & 53809	BELEN DIVISION
149432	NM TECH	5,673.00	09/26/23- 10/22/23 - ASR FEASIBILITY STUDY	**GRANTS FUND GO**
149433	OCCUPATIONAL HEALTH	629.62	DOT RECERT, PRE EMPLOYMENT & POST ACCIDENT	SOCORRO DIVISION
149434	OES GLOBAL INC	312.86	HYDRATION PACKS	INVENTORY
149435	PENA BLANCA SANIT	80.39	SYSTEM# 38 OCT23	COCHITI DIVISION
149436	PNM	3,010.81	022638203-2117172-6 OCT23	ALBUQUERQUE DIVISION
		7.06	026426802-0332811-6 NOV23	ALBUQUERQUE DIVISION
		5.25	036707300-0415630-2 NOV23	COCHITI DIVISION
		160.59	037715300-0423617-1 NOV23	COCHITI DIVISION
		28.06	050387501-0536103-4 NOV23	BELEN DIVISION
		22.06	050411100-0536271-1 NOV23	BELEN DIVISION
149437	PRUDENTIAL OVERALL S	(75.00)	CREDIT FOR RENTAL MATS -NOT DELIVERED	EQUIPMENT REPAIR & TRANS
		150.00	FY24-UNIFORM RENTAL	BELEN DIVISION
		52.13	FY24-UNIFORM RENTAL	EQUIPMENT REPAIR & TRANS
149438	RAIN FOR RENT	29,754.29	OCT23 - RENTAL FOR CORRALES PUMPS	**CAPITAL INVESTMENT FUND ABQ**
149439	RAKS BUILDING SUPPLY	25.96	SUPPLIES-TURNOUT REPLACEMENT	SOCORRO DIVISION
149440	RANDY'S ACE HARDWARE	3.74	REPAIR-UNIT# 67004 2009 JD TRACTOR MOWER	SOCORRO DIVISION
		19.12	REPAIR-UNIT# 8425.21 2012 ALAMO BATWING MOWER	SOCORRO DIVISION
149441	ROBERTS TRUCK CENTER	101.75	AIR FITTING UNIT 54419	ALBUQUERQUE DIVISION
		(146.29)	CREDIT MIRROR INV X814063651:01 PO 20241496	SOCORRO DIVISION
		1,822.47	RESERVOIR & STEERING GEAR UNIT 54423	BELEN DIVISION
		67.78	SENSOR SWITCH ANTIFREEZE LEVEL	BELEN DIVISION
149442	RUSSO BACA, S.	223.34	MEAL & MILEAGE- TRIBAL WATER LAW CONF	BOARD OF DIRECTORS
149443	SAN ACACIA MDWCA	21.53	NOV23 WATER SAN ACACIA	SOCORRO DIVISION
149444	SANDOVAL COUNTY CLERK	75.00	RELEASE OF LIENS	ACCOUNTING
149445	SANDOVAL COUNTY LAND	3,736.32	LANDFILL OCT23	ALBUQUERQUE DIVISION
149446	SILVA'S AUTO TIRE	20.00	TIRE REPAIR UNIT 80035	WATER DISTRIBUTION DIV
149447	SNELLING	616.28	ABQ DIVISION TEMP- 22.50 HRS 10/30-11-2	ALBUQUERQUE DIVISION
		834.85	ABQ DIVISION TEMP- 30.48 HRS 11/6-11/9	ALBUQUERQUE DIVISION
149448	SOCORRO ELECTRIC	8,661.56	10268007 OCT23	SOCORRO DIVISION
		526.58	10268012 OCT23	SOCORRO DIVISION
149449	SOUTHWEST GENERAL TI	695.00	TIRES UNIT 53613	BELEN DIVISION
		300.14	TIRES UNIT 54018	BELEN DIVISION
		695.00	TIRES UNIT 80025	WATER DISTRIBUTION DIV
		594.16	TIRES UNIT 80030	WATER DISTRIBUTION DIV
149450	SOUTHWEST LANDFILL	3,901.44	LANDFILL- OCT23	ALBUQUERQUE DIVISION
		342.20	OCT23 LANDFILL ACCT 10130	BELEN DIVISION
149451	STATE OF NEW MEXICO	258.21	PAYROLL GARNISHMENT	GENERAL FUND
149452	SWCA	28,847.51	OCT23 - FY24 OUTFALL SAMPLING	**GRANTS FUND GO**
149453	THOMASON LAW FIRM	138.39	PAYROLL GARNISHMENT	GENERAL FUND

Check Number	Vendor Name	Check Amount	Description	Location
149454	TNT STARTERS AND ALT	360.64	ALTERNATOR UNIT 35801	SOCORRO DIVISION
149455	UNIFIRST CORP	55.57	FY24- UNIFORM RENTAL	SOCORRO DIVISION
		69.06	FY24-UNIFORM RENTAL	SOCORRO DIVISION
149456	UNIFORMS & MORE	124.00	UNIFORMS	COCHITI DIVISION
149457	VALENCIA COUNTY CLERK	25.00	RELEASE OF LIEN	ACCOUNTING
149458	VANRIPER PETER J.	120.00	RODENT MANAGEMENT- SAN ANTONIO DITCH	SOCORRO DIVISION
149459	WAGNER EQUIPMENT CO.	420.14	CAT FILTERS	INVENTORY
149460	WASTE MANAGEMENT	216.07	NOV23- MONTHLY DUMPSTER SERVICE	COCHITI DIVISION
149461	WATER STRATEGIES	8,000.00	NOV23- FEDERAL CONSULTING SERVICES	NON DIVISION
149462	WIGGINS, WILLIAMS	15,477.02	OCT23 - COUNSEL	NON DIVISION
149463	AMAZON CAPITAL	50.73	IPHONE CASES	INFORMATION SYS
149464	AQUA SYSTEMS 2000	31,115.00	AUTOMATION CANAL GATES- INSTALLATION	WATER OPERATIONS
149465	ARCADIAN INC.	378.10	STEALTH ANTENNA ORDER	WATER OPERATIONS
149466	BOOT BARN	150.00	FY24- BOOT VOUCHER	**GRANTS CONSRV/PLANNING**
		300.00	FY24- BOOT VOUCHER	ALBUQUERQUE DIVISION
		150.00	FY24- BOOT VOUCHER	WATER DISTRIBUTION DIV
149467	BRUCKNER TRUCK SALES	23.36	RELAY UNIT 44415	ALBUQUERQUE DIVISION
149468	CITY OF ALBUQUERQUE	21,139.66	OCT23 FUEL CHARGES	ALBUQUERQUE DIVISION
		3,611.94	OCT23 FUEL CHARGES	EQUIPMENT REPAIR & TRANS
		125.00	OCT23 FUEL CHARGES	NON DIVISION
		442.17	OCT23 FUEL CHARGES	WATER DISTRIBUTION DIV
149469	CONTINENTAL BATTERY	198.96	BATTERIES UNIT 35801	SOCORRO DIVISION
		198.28	BATTERIES UNIT 67406	SOCORRO DIVISION
		66.30	BATTERIES UNIT 13451	ENGINEERING & MAPPING
		154.70	BATTERIES UNIT 80038	WATER DISTRIBUTION DIV
		66.30	BATTERIES UNIT 13450	WATER OPERATIONS
		159.00	BATTERIES UNIT 67004	SOCORRO DIVISION
		119.00	BATTERY UNIT 47025	ALBUQUERQUE DIVISION
		119.00	BATTERY UNIT 67004	SOCORRO DIVISION
		66.30	BATTERY UNIT 8580.7	EQUIPMENT REPAIR & TRANS
		(15.00)	CREDIT CORE CHARGE INV 15592310310906 PO 20241572	WATER DISTRIBUTION DIV
		(15.00)	CREDIT CORE CHARGE INV 35012311060948 PO 20241623	SOCORRO DIVISION
149470	JARAMILLO, DANNY A.	1,412.91	NOV23- RETIREE	HUMAN RESOURCES
		48.82	OCT23- RETIREE ADDED DENTAL	HUMAN RESOURCES
149471	KRONOS SAASHR, INC.	1,272.95	OCT23- UKG KRONOS READY SOFTWARE	INFORMATION SYS
149472	NAPA AUTO PARTS	17.09	HORN UNIT 47207	ALBUQUERQUE DIVISION
		209.91	MISC PARTS UNIT 33437	COCHITI DIVISION
		3.96	AMP FUSES	EQUIPMENT REPAIR & TRANS
		10.84	SOCKET & ADAPTER	WATER OPERATIONS
		8.67	TERMINAL UNIT 43621	ALBUQUERQUE DIVISION
149473	NEW MEXICO GAS CO	199.03	022638203-0301840-0 NOV23	GENERAL OFFICE
		42.15	023488000-0308786-0 NOV23	ALBUQUERQUE DIVISION
		452.01	064166213-0665790-9 NOV23	EQUIPMENT REPAIR & TRANS
149474	NEW MEXICO MUTUAL	17,424.76	ACCT# 212978753- INSTALLMENT & DEDUCTIBLE	NON DIVISION
149475	O'REILLY AUTO PARTS	29.99	BRAKE PADS UNIT 23419	WATER OPERATIONS
149476	PARTS AUTHORITY	1,021.88	BALDWIN FILTERS	INVENTORY
149477	PNM	245.57	022089701-0297049-6 NOV23	EQUIPMENT REPAIR & TRANS
		1,182.31	022638203-0301840-0 NOV23	NON DIVISION
		3,440.85	023488000-0308786-0 SEP-NOV23	ALBUQUERQUE DIVISION
		59.12	032302200-0382043-5 NOV23	ALBUQUERQUE DIVISION
149478	POSTAL PROS	4,397.03	ASSESSMENTS MAILER	NON DIVISION
149479	POWER EQUIPMENT	227,672.00	VOLVO EW130E- MEDIUM RUBBER TIRE	BELEN DIVISION
149480	PURCELL TIRE COMPANY	170.93	TIRE REPAIR UNIT 47019	ALBUQUERQUE DIVISION
		143.28	TIRE REPAIR UNIT 47313	ALBUQUERQUE DIVISION

Check Number	Vendor Name	Check Amount	Description	Location
		143.28	TIRE REPAIRS UNIT 47313	ALBUQUERQUE DIVISION
149481	SOUTHERN TIRE MART	379.22	TIRE REPAIR/SERVICE CALL UNIT 47027	ALBUQUERQUE DIVISION
149482	TAFOYA, MARK A	600.93	DEC23- RETIREE	HUMAN RESOURCES
149483	THE PRINTERS PRESS	132.00	RETURN ENVELOPES-ASSESSMENTS	ACCOUNTING
149484	TLC CO INC	8,035.33	HEATING FOR ALBUQUERQUE WELDING SHOP	ALBUQUERQUE DIVISION
149485	VALENCIA COUNTY	1,599.53	OCT23 FUEL COSTS	BELEN DIVISION
		200.00	OCT23 FUEL COSTS ADMIN FEE	NON DIVISION
149486	VEIHL, ASHLEY	65.63	MEAL & PARKING EXPENSES TRIBAL WATER LAW CONF	CONSERVATION/PLANNING

949,657.41	**TOTAL PAYROLL**
1,191,739.71	**TOTAL CHECKS - GENERAL FUND**
29,432.23	**TOTAL CHECKS - DEBT SERVICE FUND**
55,068.60	**TOTAL CHECKS - GRANTS FUND**
38,301.88	**TOTAL CHECKS - CAPITAL INVESTMENT FUND**
$ 2,264,199.83	**GRAND TOTAL**

Pamela S. Fanelli, CFO

Stephanie Russo Baca, Chair

MINUTES OF THE
2,205th REGULAR MEETING OF THE
BOARD OF DIRECTORS OF THE
MIDDLE RIO GRANDE CONSERVANCY DISTRICT

NOVEMBER 13, 2023 - 3:00 PM

Directors having been duly notified; Madam Chair Russo Baca attended remotely. Vice Chair Dunning called the regular meeting to order at 3:05 pm. The following Directors and Staff were present:

DIRECTORS		STAFF	
Stephanie Russo Baca, Chair	Present	Jason Casuga	Chief Engineer/CEO
Karen Dunning, Vice Chair	Present	Lorna Wiggins	General Counsel
Brian Jiron, Director	Present	Dr. Charles DuMars	Chief Water Counsel
John Kelly, Director	Present	Pamela Fanelli	Secretary-Treasurer/CFO
Joaquin Baca, Director	Absent	Eric Zamora	Chief Operating Officer
Glen Duggins, Director	Present	Anne Marken	Water Distribution Division Mgr.
Michael T. Sandoval, Director	Present	Matt Martinez	Water Operations Division Mgr.

The following names of individuals were interested viewers, callers and/or participants

Mark Garcia	Casey Ish, MRGCD	Michael Padilla, MRGCD
Elaine Hebard	Amanda Molina, MRGCD	Mitch Georgina, MRGCD
Sarah Delavan, BIA	Christine Nardi, MRGCD	Marta Moerch, MRGCD
Robert Padilla	Alicia Lopez, MRGCD	Judith McSweeny, MRGCD
Mike Hamman, OSE	Yasmeen Najmi, MRGCD	Angelina Jiminez, MRGCD
Chris Lopez	Danielle Wilson, MRGCD	Matthew Chavez, MRGCD
Mark Sanchez	John Thompson, MRGCD	Angel Madera Enriquez, MRGCD
Dan Krupiak	Ashley Veihl, MRGCD	Rhett Sanders-Spencer, MRGCD
John Fleck, UNM	Josh Gamboa, MRGCD	Josh Hind, MRGCD
Tarah Jaramillo, MRGCD	Tyler Otero, MRGCD	

AGENDA ITEM NO. 1 – PLEDGE OF ALLEGIANCE

Lorna Wiggins led the Pledge of Allegiance at today's meeting.

Chair Russo Baca was out of town therefore Vice Chair Dunning was acting chair. She declared a quorum, and the hybrid meeting was publicly noticed. She also recognized and congratulated Director Joaquin Baca as he was elected to the Albuquerque City Council.

AGENDA ITEM NO. 2 – APPROVAL OF THE AGENDA

There were no changes made.

Director Sandoval made the **MOTION TO APPROVE THE MEETING AGENDA.** Seconded by Director Kelly. The **MOTION CARRIED UNANIMOUSLY.**

AGENDA ITEM NO. 3 - CONSENT AGENDA

a. **Consideration/Approval of Payment Ratification - November 13, 2023**
b. **Consideration/Approval of October 2023 Invoice for Wiggins, Williams & Wiggins**
c. **Consideration/Approval of October 2023 Invoice for Law and Resource Planning Assoc.**

d. Consideration/Approval of the Minutes for the Special Board Meeting - October 6, 2023

e. Consideration/Approval of the Minutes for the Special Board Meeting - October 9, 2023

f. Consideration/Approval of the Minutes for the Regular Board Meeting - October 9, 2023

g. Memo on MRGCD Approved Licenses for October 2023 (For informational Purposes Only)

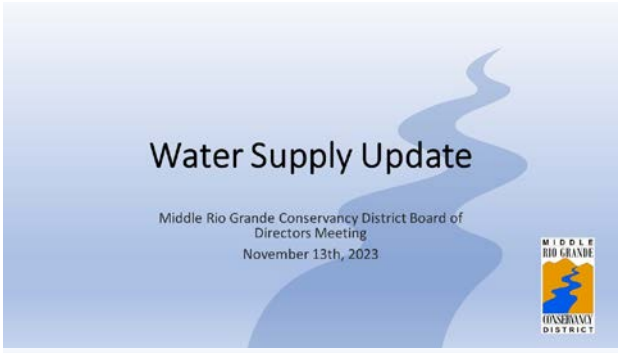
There were no questions or discussions had.

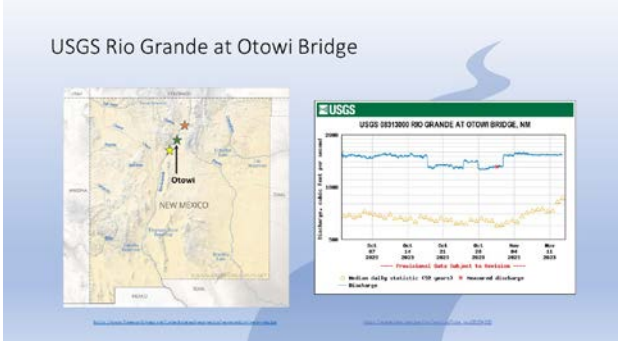
Director Duggins made the **MOTION TO APPROVE THE CONSENT AGENDA with the above changes**. Seconded by Director Sandoval. The **MOTION CARRIED UNANIMOUSLY.**

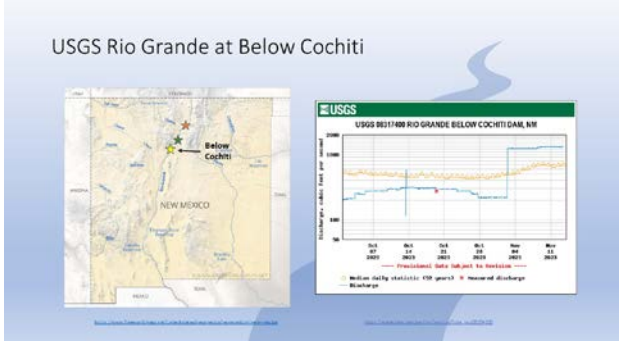
AGENDA ITEM NO. 4 - WRAP UP OF THE 2023 IRRIGATION SEASON

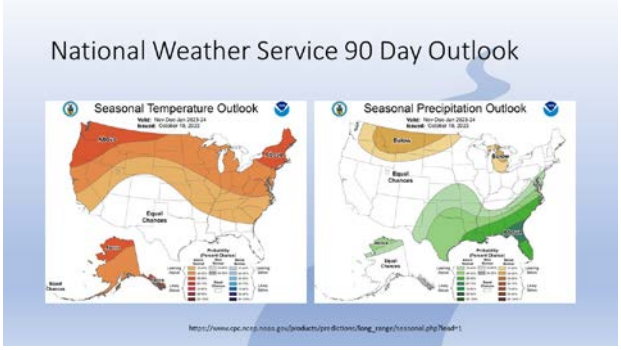
a. Report on the Water Supply Conditions - Anne Marken, Water Ops Division Manager

Anne Marken said there had been more water in the river the past couple of weeks due to the US Army Corps of Engineers releasing water stored in Abiquiu and Cochiti Reservoirs to be moved down to Elephant Butte. She discussed the hydrographs, which showed Embudo Gauge with less than 300 CFS, the Otowi Gauge read 1500 CFS and Rio Grande below Cochiti Dam measured 1300 CFS. She stated most of the water moving to Elephant Butte would help with Compact deliveries for 2023. Ms. Marken discussed the National Weather Service three-month outlook, showing equal chances for above or below average temperatures and precipitation with an 80% chance of El Nino to continue through the winter and into spring.









Mr. Casuga asked if Colorado operations finished filling their ponds and stopped their use. Ms. Marken answered there was less than 100 CFS coming over the Colorado border and anticipated them stopping releases soon.

Mr. Casuga asked if they should see the number rise in Embudo if they had not wound down. He added the water management community expected the Compact to rise, but the degree to which it would rise was undetermined.

Director Duggins said they heard it would be close to a wash of where they started the year and anticipated what was stored and would be going down. Mr. Casuga said the ones releasing the water were releasing it according to the rules that maximized hopeful delivery. He added their annual year delivery was usually not great when there was above average runoff and no rain. He said he would be very happy if they broke even.

Director Kelly asked how many acre feet they were going to use to rewet the river down to Elephant Butte. Ms. Marken answered it was hard to tell because the river gauges would need to be revisited once the water arrived but could lose quite a bit of water in the process. Mr. Casuga added they expected efficiency to rise over time.

Director Duggins asked why they would not push more water. Ms. Marken stated they were trying to keep it confined and not to overbank and spread.

b. Report on Preparation for Off-season Activities and Workplan - Matt Martinez, Water Distribution Division Manager

Mr. Martinez stated the water supply in October was low, but they were able to effectively rotate water through the irrigation system and able to catch up on deliveries after shortages in August and September. He said irrigation season for non-pueblo farmers ended October 31st and November 15th for the six middle Rio Grande pueblos. Mr. Martinez thanked Sarah Delavan for bringing a fresh perspective and being a great advocate for the pueblos. He discussed the ISO logbook application project and said they learned much to help them make upgrades and add new features for next season and the video was available on the website. He stated soon all diversions would end and they would start on winter work. He noted that ISO staffing and training would be a top priority in the off season. Mr. Martinez thanked MRGCD water users for the productive feedback and support.

Director Duggins commented that he planted in the late fall and was able to get what he needed. He asked for an update on the one acre per hour. Mr. Martinez answered that they used a new form to report violations with a process of every two weeks upon report, where they then reviewed and determined corrective action. He added they needed to have more discussions on how to address water waste violations.

Mr. Casuga stated the general perception was that they were inefficient in managing water by continuing to not strictly enforce one acre per hour. He felt a discussion needed to be had.

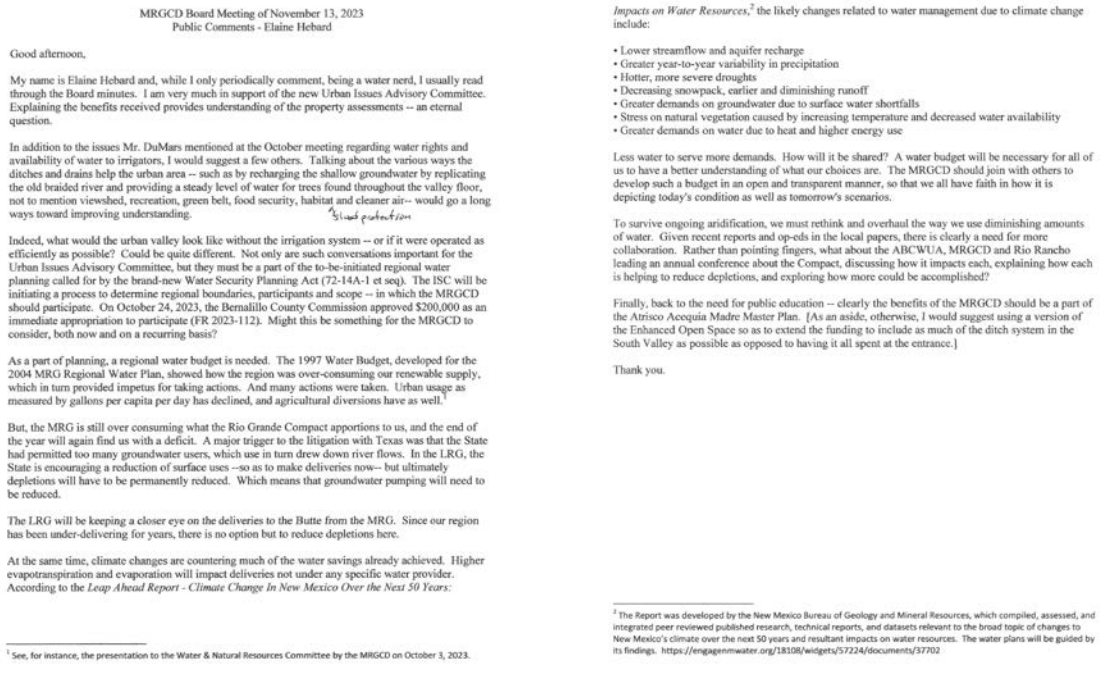
AGENDA ITEM NO.5 - ITEMS FROM THE FLOOR (Comments are limited to six (6) minutes)

Mark Garcia

Mr. Garcia piggybacked on what Director Duggins mentioned about the lack of efficiency. He stated his property ditches were clean and laser leveled. He said he did not know what kind of policies they could put on people, but farmers needed to do their part as well by keeping ditches clean and laser leveled. He thought there needs to be a discussion on how farmers can be more efficient at laser leveling.

Elaine Hebard

Ms. Hebard said she was in support of the new Urban Issues Advisory Committee. She said explaining the benefits received provided understanding for the property assessment they all paid. She gave a few suggestions on water rights and availability of water for irrigation, including various ways ditches and drains helped the urban area by recharging the shallow aquifer by replicating the old, braided river system and helping to keep trees without having to water all the cottonwood trees in the valley. She said the ISC would be initiating a process to determine regional boundaries, participants, and the scope in which MRGCD should participate. She also said a regional water budget was needed, they would see impacts under the Leap Ahead analysis, and mentioned one way to update the water budget was the way they did in 1997. She suggested having a conference with the main players to talk about the Compact and the benefits of the MRGCD.



MRGCD Board Meeting of November 13, 2023
Public Comments - Elaine Hebard

Good afternoon,

My name is Elaine Hebard and, while I only periodically comment, being a water nerd, I usually read through the Board minutes. I am very much in support of the new Urban Issues Advisory Committee. Explaining the benefits received provides understanding of the property assessments -- an eternal question.

In addition to the issues Mr. DuMars mentioned at the October meeting regarding water rights and availability of water to irrigators, I would suggest a few others. Talking about the various ways the ditches and drains help the urban area -- such as by recharging the shallow groundwater by replicating the old braided river and providing a steady level of water for trees found throughout the valley floor, not to mention viewshed, recreation, green belt, food security, habitat and cleaner air-- would go a long ways toward improving understanding.

Indeed, what would the urban valley look like without the irrigation system -- or if it were operated as efficiently as possible? Could be quite different. Not only are such conversations important for the Urban Issues Advisory Committee, but they must be a part of the to-be-initiated regional water planning called for by the brand-new Water Security Planning Act (72-14A-1 et seq). The ISC will be initiating a process to determine regional boundaries, participants and scope -- in which the MRGCD should participate. On October 24, 2023, the Bernalillo County Commission approved $200,000 as an immediate appropriation to participate (FR 2023-112). Might this be something for the MRGCD to consider, both now and on a recurring basis?

As a part of planning, a regional water budget is needed. The 1997 Water Budget, developed for the 2004 MRG Regional Water Plan, showed how the region was over-consuming our renewable supply, which in turn provided impetus for taking actions. And many actions were taken. Urban usage as measured by gallons per capita per day has declined, and agricultural diversions have as well.[1]

But, the MRG is still over consuming what the Rio Grande Compact apportions to us, and the end of the year will again find us with a deficit. A major trigger to the litigation with Texas was that the State had permitted too many groundwater users, which use in turn drew down river flows. In the LRG, the State is encouraging a reduction of surface uses --so as to make deliveries now-- but ultimately depletions will have to be permanently reduced. Which means that groundwater pumping will need to be reduced.

The LRG will be keeping a closer eye on the deliveries to the Butte from the MRG. Since our region has been under-delivering for years, there is no option but to reduce depletions here.

At the same time, climate changes are countering much of the water savings already achieved. Higher evapotranspiration and evaporation will impact deliveries not under any specific water provider. According to the *Leap Ahead Report - Climate Change In New Mexico Over the Next 50 Years: Impacts on Water Resources*,[2] the likely changes related to water management due to climate change include:

- Lower streamflow and aquifer recharge
- Greater year-to-year variability in precipitation
- Hotter, more severe droughts
- Decreasing snowpack, earlier and diminishing runoff
- Greater demands on groundwater due to surface water shortfalls
- Stress on natural vegetation caused by increasing temperature and decreased water availability
- Greater demands on water due to heat and higher energy use

Less water to serve more demands. How will it be shared? A water budget will be necessary for all of us to have a better understanding of what our choices are. The MRGCD should join with others to develop such a budget in an open and transparent manner, so that we all have faith in how it is depicting today's condition as well as tomorrow's scenarios.

To survive ongoing aridification, we must rethink and overhaul the way we use diminishing amounts of water. Given recent reports and op-eds in the local papers, there is clearly a need for more collaboration. Rather than pointing fingers, what about the ABCWUA, MRGCD and Rio Rancho leading an annual conference about the Compact, discussing how it impacts each, explaining how each is helping to reduce depletions, and exploring how more could be accomplished?

Finally, back to the need for public education -- clearly the benefits of the MRGCD should be a part of the Atrisco Acequia Madre Master Plan. [*As an aside, otherwise, I would suggest using a version of the Enhanced Open Space so as to extend the funding to include as much of the ditch system in the South Valley as possible as opposed to having it all spent at the entrance.*]

Thank you.

[1] See, for instance, the presentation to the Water & Natural Resources Committee by the MRGCD on October 3, 2023.

[2] The Report was developed by the New Mexico Bureau of Geology and Mineral Resources, which compiled, assessed, and integrated peer reviewed published research, technical reports, and datasets relevant to the broad topic of changes to New Mexico's climate over the next 50 years and resultant impacts on water resources. The water plans will be guided by its findings. https://engagenmwater.org/18108/widgets/57224/documents/37702

John P. Kelly

Director Kelly reminded Ms. Hebard he was preparing a charter for the Urban Advisory Committee, and said she added some good input to remember as he worked on it. He also mentioned the expenditure report and all they were doing for the local economy.

AGENDA ITEM NO. 6 - DISCUSSION/APPROVAL OF MRGCD BOARD COMMITTEES - Chair Russo Baca

Mr. Casuga discussed the different proposed board and voluntary advisory committees and the goal to make sure every county is represented, including tribal partners. He's looking to the board to reach out to people for the advisory committees. Vice Chair Dunning suggested they would need to get more guidance about how the group will meet and how often.

MIDDLE RIO GRANDE CONSERVANCY DISTRICT
BOARD COMMITTEES AND VOLUNTARY ADVISORY COMMITTEES
2023-2024

BOARD COMMITTEES

Finance Committee:	Water Protection Committee
Director John Kelly Vice Chair Karen Dunning Chair Stephanie Russo Baca	Chair Stephanie Russo Bacca Director Joaquin Baca Director Michael T. Sandoval
Urban Issues Committee	**Irrigation Committee**
Director Joaquin Baca Director John Kelly Director Karen Dunning	Director Glen Duggins Director Michael T. Sandoval Director Brian Jiron
Legislative Committee	**BIA Contract Committee**
Chair Stephanie Russo Baca Vice Chair Karen Dunning Director Joaquin Baca	Chair Stephanie Russo Baca Director Michael T. Sandoval Director Brian Jiron
Mid-Region Council of Governments (MRCOG) Representation	**Personnel Committee**
Vice Chair Karen Dunning - Exec Committee Chair Stephanie Russo Baca – Alternate Jason Casuga, CEO/Chief Engineer – TPTG	Director John Kelly Vice Chair Karen Dunning Chair Stephanie Russo Baca
Election Committee	
Chair Stephanie Russo Baca Director John Kelly Director Brian Jiron	

VOLUNTARY ADVISORY COMMITTEES

Conservation Advisory Committee (NFWF grant requirement)

Urban Issues Advisory Committee
- Composition TBD

Irrigation Advisory Committee
- Proposed Composition: 10-person committee, 2 Tribal members, 2 members from each County

Director Kelly cautioned about having too many committee meetings over the course of a year, and suggested maybe twice a year unless there was an issue. Mr. Casuga agreed.

Dr. DuMars suggested having a person appointed by a county commission or the ABCWUA to engage and they may take it more seriously.

Director Sandoval suggested if they were looking to have tribal people sit at the table with them in the Irrigation Advisory Committee, he recommended the Coalition nominate who should be at the table. Mr. Casuga agreed.

AGENDA ITEM NO. 7 - REPORT(S) FROM THE HUMAN RESOURCES DEPARTMENT - Christine L. Nardi, MBA

a. Introduction of MRGCD New Hires

Ms. Nardi announced MRGCD new hires, including an ISO in the Socorro Service Area, a welder in Cochiti Division, a light equipment operation in the Albuquerque Division and two medium equipment operators in the Socorro Field Division. She reported they are at a 10% vacancy rate.

General Office

GEROME	APODACA	IRRIGATION SYSTEMS OPERATOR

Cochiti Division

JOHN	LUCERO	WELDER I

Albuquerque Division

FIDEL	DIAZ	LIGHT EQUIPMENT OPERATOR

Socorro Division

IZIAH	MONTOYA	MEDIUM EQUIPMENT OPERATOR
JOEL	MARTINEZ	MEDIUM EQUIPMENT OPERATOR

b. Report on Management and Development Training

Ms. Nardi stated recent years have demonstrated just how quickly things can change. They not only experienced the onset of the Covid-19 pandemic, but also saw long tenured and key leaders leave the organization. She announced they partnered with Jan Maples from The Connecting Point, an HR consulting firm, to set up the District for success in its next chapter to ensure continuity and leadership talent in alignment with the Chief Engineer/CEO's goals for 2023 and beyond. She stated that each session was tailored to specific needs identified by the participants themselves through a training needs assessment. The 19 participating managers came from across the organization, from the field divisions, equipment, repair and transportation, engineering, water operations, water distribution, purchasing, conservation, accounting and licensing and land sales. There would be 6 mandatory training sessions scheduled to take place once a month with a duration of approximately 4 hours each; stating there are no makeup sessions. She said investing in the District's managers was money and time and resources well spent.

Director Kelly asked what the feedback was on the first training session on interviewing techniques. Ms. Nardi answered very positive and gave accolades to her HR team.

Mr. Casuga added it was a series they expected to repeat and said they were trying to put together a training regime to prepare individuals for what they face in the field.

Vice Chair Dunning requested sharing the evaluations at the end of training modules with the Personnel Committee. Ms. Nardi answered yes.

AGENDA ITEM NO. 8 - REPORT(S) FROM THE SECRETARY-TREASURER/CFO - Pamela Fanelli, CMA, CGFM

a. Consideration/Approval for Resolution M-11-13-23-204 Authorizing Application for a WaterSmart: Drought Resiliency Program Grant (NOF No. R24AS00007) Through the US Bureau of Reclamation for the Construction for the Feeder No. 3 Pump Station in Southern Valencia County - West Side Belen Division

Ms. Fanelli discussed Resolution M-11-13-23-204, which would authorize the District to apply for a WaterSmart grant for construction of the Feeder No. 3 pump station in Valencia County. She stated the estimated cost was $5 million with a 50% match. Mr. Casuga added they would apply for the 50% match with the Water Trust Board.

Director Kelly asked if it would have the ability to divert water to the river for ESA issues like the one in Socorro. Mr. Casuga answered yes, it will be built close to the end of Feeder 3, strategically located to provide both supplemental water for irrigation and supplemental water in line with commitments under the biological opinion.

Vice Chair Dunning inquired about the timeline for the grant application. Ms. Fanelli stated the deadline was the week before but had not been awarded yet. Mr. Casuga added awards usually given around August or fall of next year.

Director Duggins asked if they were pumping drain water back up or moving ditch water. Mr. Casuga stated they would take water out of the riverside drain and lift it to the Jarales, Sabinal, and Garcia Extension.

Director Duggins asked where the water would go if they did not have the pump. Mr. Casuga said they could direct water from Feeder No. 3 right of way into the Isleta Riverside Drain to the Drain Unit 7 Extension to Socorro or back to the river.

Director Kelly made the **MOTION TO APPROVE RESOLUTION M-11-13-23-204.** Seconded by Director Duggins. **The MOTION CARRIED UNANIMOUSLY.**

AGENDA ITEM NO. 9 - REPORT(S) FROM THE DEPARTMENT OF INTERIOR

a. Bureau of Reclamation - Jennifer Faler, Area Manager

Ms. Faler did not attend.

b. Bureau of Reclamation - Robert S. Padilla, Supervisory Civil (Hydraulic) Engineer

1. Temporary Banks Stabilization Project (Corrales Siphon)

Mr. Padilla discussed what they were doing along the west bank lines in preparation for 2024 spring runoff. He said they wanted to improve water delivery, endangered species, and habitat needs. He showed photos and figures and talked about project components, schedules, and plans for the long term. He explained that the river used to be wide, braided, and shallow but was now an S channel with point bars and large meandering bends. Mr. Padilla mentioned closing NM State Road 448 in a couple weeks to start hauling there. He said they would be having a meeting with the Village of Corrales, MRGCD, Reclamation and safety folks to discuss safety. He discussed many projects, including putting in a bioengineered bank line at the Corrales Siphon Bend and side channel to alleviate pressure on the outer bank and reconnect the flood plain and the Santa Ana project.

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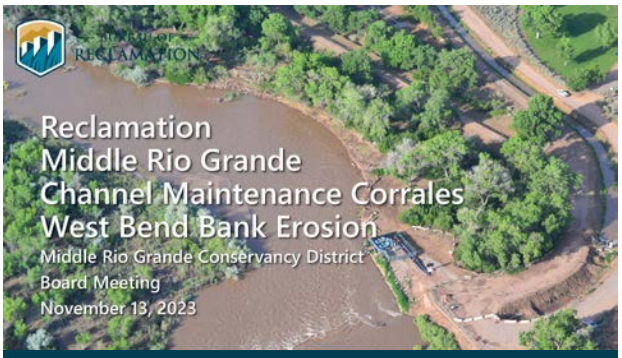
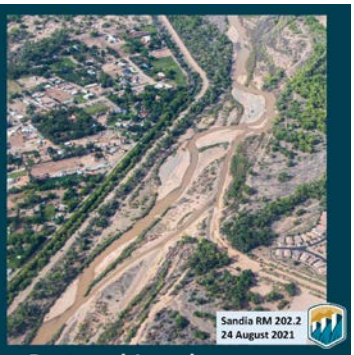


Outline

- Authorities, Project Background, and Purpose
- 2023 Spring River monitoring and Reach Trends
- Project Components
- Project Schedule
- Future Long Term Planned Work



MRG River Maintenance Authorities

- MRG Flood Control Acts of 1948 and 1950 – Authorized project works including Flood Control Dams, El Vado Dam, and River and Levee system, Irrigation rehabilitation
- Velarde to Caballo -260 river miles
- Maintenance of Rio Grande Channel and Low Flow Conveyance Channel
- Work w/ MRGCD and USACOE on MRG Project works, river system, levees, downstream water delivery and ESA habitat needs

MRG River Maintenance Past and Legal Considerations

- Flood Control Acts of 1948 and 1950 – Channelization Period 1950-70's, River Channel and Floodway, Rehabilitation of MRGCD's Irrigation and Drainage Facilities (1951 Contract, El Vado, Isleta, San Acacia), Flood and Sediment Control Dams and Levees by USACE, improved water delivery and conveyance
- Post channelization - maintenance of River Channel for less than flood flows, authorization for 5,000 and 8,000 cfs, 2-yr return flows
- 1938 Rio Grande Compact (Colorado, New Mexico, and Texas)
- Other federal responsibilities 1973 Endangered Species Act (2016 BO), 1970 National Environmental Policy Act, and 1972 Clean Water Act

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River Monitoring – Spring Runoff

- 2023 Spring Runoff volume was 169% of 30-yr median (1991-2020); low runoff years in 2020, 21, 22
  - Cochiti Peak flow was 5400 cfs
  - San Felipe and Albuquerque were 5670 cfs and 5100 cfs respectively
    - Inflow into Cochiti peaked at 7850 cfs – long release of flood flows and storage
- River flights and on-the-ground inspection
- Observed bank erosion from San Felipe downstream to Alameda Bridge
- Also collect river cross sectional data, imagery, and LiDAR annually for monitoring

Corrales West Bend 2023 Observed Erosion and Trends

- Observed significant bend development, bank erosion, and channel migration downstream of the siphon crossing
  - Approximately 140 feet of lateral migration with about 150 feet of buffer to the western levee system
- River bed in this reach is:
  - Incising (eroding and lowering in elevation) and;
  - Coarsening (sands/fine gravel to gravels/cobbles) due changes in the upstream sediment supply
  - Banks and terrace are comprised of finer material, river bed is below vegetation root zone so minimal erosion resistance.
- River planform is changing from a relatively straight/braided/shallow channel to sinuous/narrow/deep channel with point bars and meander bends

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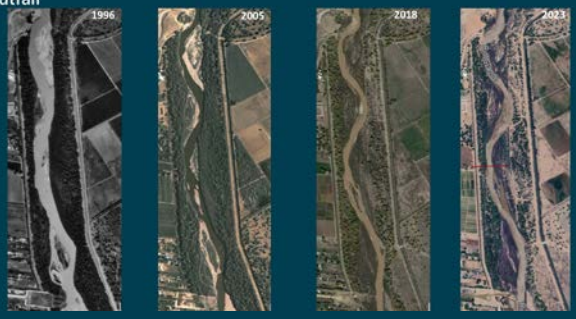
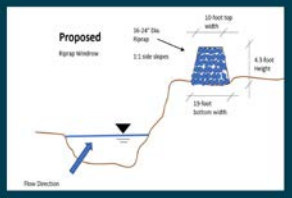
Reach Trends – Corrales Siphon Crossing downstream to Harvey Jones Outfall



Project Components – Riprap Windrow and top of bank clearing



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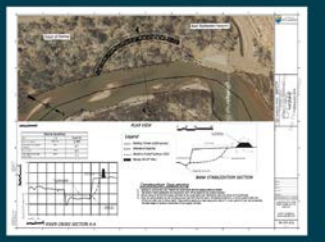
Project Components – Riprap Windrow and top of bank clearing

- Windrow is "self-launching" or future bank erosion at the site will cause the material to fall along the advancing bankline limiting future erosion/migration to the west.
- Material quantity is sufficient to line the bankline to the top an adequate thickness for protection and include material to fill in a 4 ft. scour hole at the toe of the bank.
- Windrow will be comprised of rip rap rock material placed along 560-ft of bankline, trapezoidal in shape.
- Rock material is comprised of 18-24 inch materials and involving approximately 1500 cubic yards of material or will be approximately 2.7 cubic yards per linear foot of bankline when launched.
- The alignment of the windrow will be staked in the field by a project engineer prior to construction, alignment considers future trajectory of the bend development.
- Prior to placement of the rock material the top of the bank will be cleared of vegetation back to the west for about 50 feet for equipment access.

Project Components – Staging Area and Maximum Disturbance Area



Project Components – Design and Construction Information

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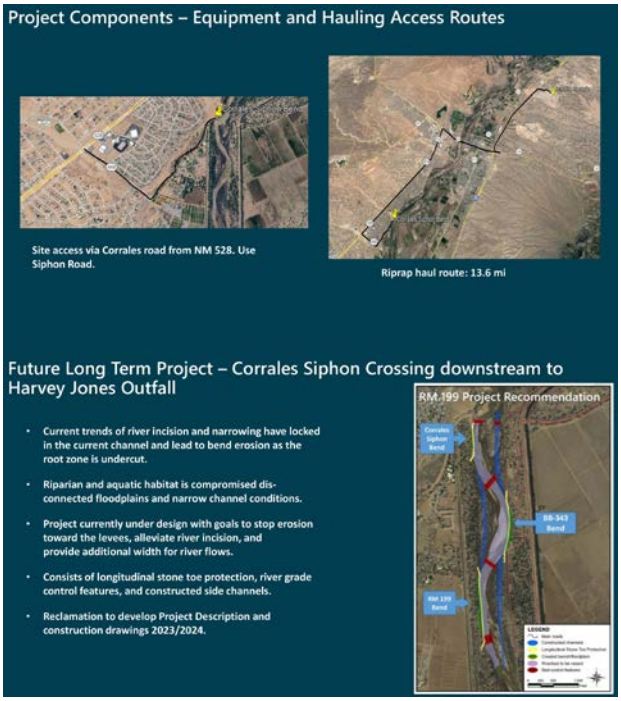
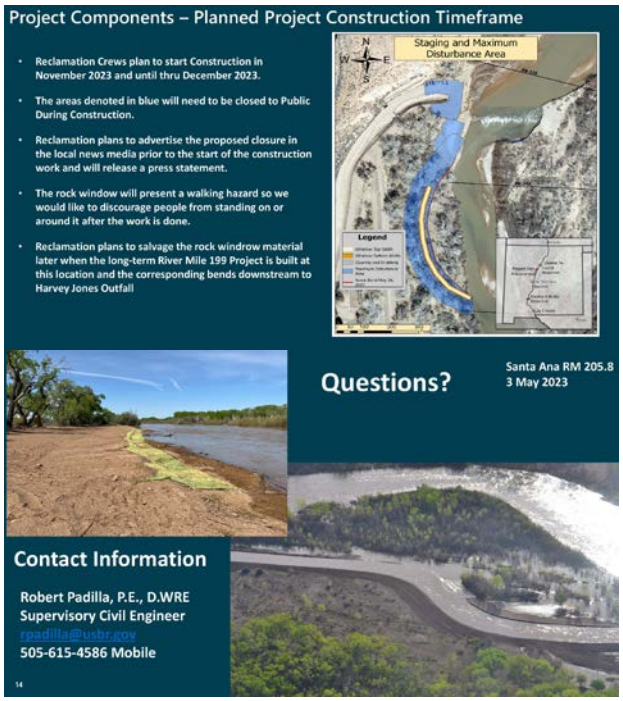




Vice Chair Dunning asked if the access would be closed for long term or short term and if they were still going to do something about erosion since the cottonwoods were still going to fall into the river due to age. Mr. Padilla answered it would be closed today through December and would be open from then until fall of 2025. Mr. Casuga said once the river was stabilized any tree that had not fallen into the river would be MRGCD's and the Village of Corrales' responsibility.

Director Kelly mentioned discussing with Ms. Faler his concern about a windrow of rock five feet high on a 1-to-1 slope being an attractive nuisance for the kids in the area and asked if his team was able to look at burying in the trench to make it flat and if they had an excavator out there already. Mr. Padilla said excavating a rock trench would impact more cottonwood trees than if they just put the windrow in.

Director Kelly stated whatever they could do to reduce the visual and attractive nuisance impact would be appreciated. Mr. Casuga said both MRGCD and the Village of Corrales had concerns about the safety of the area, and they had already been discussing long term safety features and wanted to encourage everybody to stay away from the area and would do whatever they could to create a path for an easier route.

c. Bureau of Indian Affairs - Dr. Sarah Delavan, Designated Engineer

Dr. Delavan said she had been working closely with MRGCD staff. She said the O&M agreement was still filtering up through the government for a signature. She added she had read about 90% of the MRGCD website. She's working with the team on a startup plan for the new season in the spring and was halfway through the field site visits. Dr. Delavan mentioned a government shutdown looming where she would not be available, but there is a plan to continue meeting. She noted that some of the District staff became a part of a union was brought up at the Six Middle Rio Grande Pueblo Coalition meeting and that they would love to hear about this, anything that might affect some of the pueblos or relationships with her or the coalition.

Vice Chair Dunning asked how long they could go with the agreement not being signed if the government shuts down. Mr. Casuga stated that they received the updated SF-424 form with funding, showing that the funding for the remaining, through February, is covered. If they did not get the funding yet, they would just continue their job and BIA would pay them in arrears if not functional by February.

Director Kelly commented she should be selective on the work plans and welcomed her aboard.

AGENDA ITEM NO. 10 - REPORT(S) FROM THE CHIEF OPERATING OFFICER - Eric Zamora, PE

a. **MRGCD Division Manager Updates - Tyler Otero, Belen Division Manager**

Mr. Otero said he took the Belen Division and broke it into seven different areas for mowing and spraying that would eventually shrink down to four areas for more accountability for the mowers and sprayers. He discussed weekly work plans that helped with scheduling work and determining a timeline for outstanding work. He said he had encountered issues with gates, illegal dumping, vehicles in the bosque, and encampments. Mr. Otero mentioned that Albuquerque and Socorro Divisions have supported him. He thanked his staff and said he appreciated the extra effort that they've given.

Director Kelly asked about equipment needs, what was the single most important piece of equipment the division needed to go into next year's budget. Mr. Otero said because they've been renting one currently, a water truck and then a long reach.

Director Jiron asked if they were looking at installing more gates to help with illegal dumping. Mr. Otero stated the biggest issue is the locks are being cut or a wench is used and driving through them. He said it turns into a nuisance problem.

Director Kelly said it sounded like they needed game cameras. Mr. Otero said they had been discussing that and needed to come to a long term solution.

b. Discussion/Approval regarding Krupiak Encroachment - Rhett Sanders-Spencer, Right of Way Specialist and Jason M. Casuga, CE/CEO

Mr. Sanders-Spencer discussed the approval of the Krupiak encroachment. He stated Mr. Dan Krupiak was a contractor who built a new residence for sale on Tract 16, which his wife owns. He had made public comment on how he had been impacted during mediation of the disputed property boundary. He said they followed it with a report on the results of the boundary survey.

Ms. Wiggins asked the rest of the report be moved to executive session, which the Vice Chair agreed.

c. Update on Bureau of Indian Affairs Winter Work O&M

Mr. Zamora said they had been in coordination with the Six Middle Rio Grande Pueblos with regard to the winter work list and continued maintenance operations for the pueblos. He stated they would be moving forward with finalizing the priority list with each of the pueblos.

Mr. Zamora gave updates on the regular O&M and said they would be doing a demonstration project tomorrow for all four divisions on turnout installations depending on the division, they have a few non-standard way of installing turnouts.

He said winter weather definitely affects the work and the amount of time we can spend on our winter projects. If they had significant winter weather this year, rather than sending people home, they would be transferring staff to other divisions to help complete work, such as, picking up weed piles, helping with dredging or helping with turnout installs as they were looking at between forty and 80 turnout installs throughout the District in the offseason.

AGENDA ITEM NO. 11 - REPORT(S) FROM THE CHIEF ENGINEER - Jason M. Casuga, PE

a. Consideration/Approval of the Atrisco Acequia Madre Master Plan - Danielle Wilson, Sites Southwest and Yasmeen Najmi, Planner

Yasmeen Najmi introduced Danielle Wilson, the principal planner at Sites Southwest. She mentioned they had about $65,000 capital outlay funding and had been working with their partners and Bohannon Huston on working on a scope of work to start with some of the engineering and design for phase one. She said Bernalillo County was working on an MOU continuance for implementation with the partners and were able to get some additional capital outlay funding, about $125,000 and one time allocation of $800,000.

Danielle Wilson discussed the master plan for the land around the headwaters of the Atrisco Acequia with the County, MRGCD, Water Utility Authority, the City, and other non-funding partners. She said the site was north of Central Ave and Sunset Road, west of the Rio Grande and adjacent to the bosque, which was a strategic location for the community with a key opportunity to provide connections to existing trails and open space amenities. Ms. Wilson said they wanted it to be a space to educate the public about the history and connection between water, agriculture, and community. She discussed all the planning that went into the master plan and all it entailed. She said there were issues of connection surfacing, accessibility along the trails, concerns about vandalism and personal safety, trash and dumping, parking, and encampments. Ms. Wilson said they were looking to breaking it into three phases over the next several years, starting with engineering and design, surveying, and testing and permitting.

Vice Chair Dunning asked if they were the first entity to approve the plan or had other partners already heard the presentation and approved it. Ms. Najmi said the plan was presented to the Open Space Advisory Board and had been approved.

Vice Chair Dunning asked if the Metropolitan Redevelopment Agency were agreeing to the plan. Ms. Najmi had not heard anything definitive on how MRA wanted to use the space, but they had remained engaged in the process and open to ideas.

Director Kelly made the **MOTION TO ENDORSE THE ATRISCO ACEQUIA MADRE MASTER PLAN AS PRESENTED.** Seconded by Chair Russo Baca. **The MOTION CARRIED UNANIMOUSLY.**

b. Report(s) from the Conservation Program - Casey Ish, Conservation Program Supervisor

1. Discussion/Approval of Abiquiu Cultural Study Cost Share

Casey Ish gave an update on the Abiquiu storage and culture compliance. He said the Water Utility Authority had an ongoing contractor that completed all the site surveys at Abiquiu, and things were moving forward. He said they were engaging in informal consultation with the State Historic Preservation Office and formal consultation would follow after they get a final report.

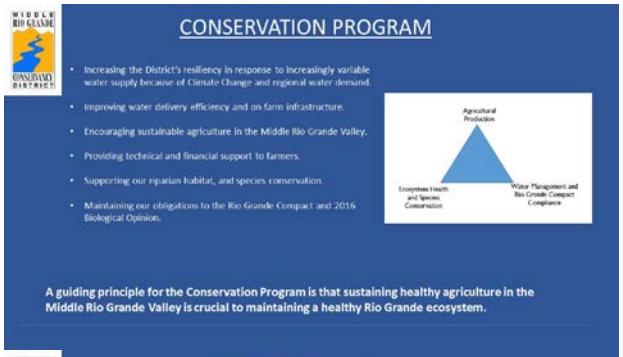
Vice Chair Dunning asked if they found anything significant in the survey. Mr. Ish said they identified two sites of interest. One being a Navajo prehistoric site which they were not privy to the information gathered although it was documented. It ended up being extremely steep terrain, which as part of the survey requirements by the Corps, he thought its anything in excess of a 40 degree slope, which they are not required to survey. That ended up removing a large chunk of potential sites.

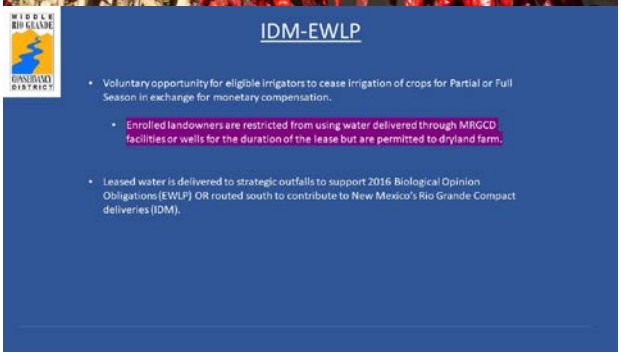
Mr. Casuga stated they needed approval to provide the cost share match, to contribute 50% of the proposal and would execute the MOU after the approval.

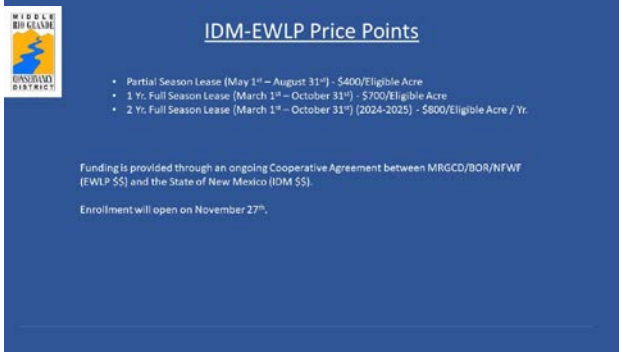
Director Kelly made the **MOTION TO AUTHORIZE THE CHIEF ENGINEER TO ENTER INTO AN MOU WITH THE WATER UTILITY AUTHORITY TO PARTICIPATE IN 50% OF THE COST OF THE CULTURAL RESEARCH FIELD ASSESSMENT AND REPORTING FOR THE ABIQUIU RESERVOIR STORAGE EXPANSION PROJECT SUBJECT TO ACTUAL COST BEING PROVIDED BY SWCA IN LIEU OF THE INFLATED ESTIMATE.** Seconded by Director Sandoval. **The MOTION CARRIED UNANIMOUSLY.**

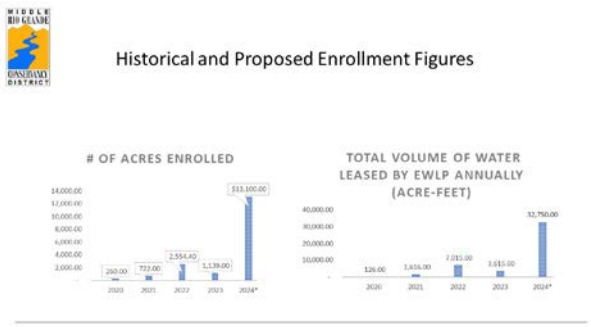
2. Update on the 2024/2025 Environmental Water Leasing Program

Casey Ish gave a brief background. He said they were contemplating a joint effort between MRGCD, NFWF, Reclamation and the State of New Mexico for the 2024 and 2025 irrigation season, including an irrigation demand management program to temporarily reduce demand for irrigation water in the middle valley. He stated they were preparing to double the dollar per acre offered in 2023 for 2024 for both the partial and full season, increasing partial season payments to around $400 per acre and a one-year full season from $350 to roughly $700 per acre. Open enrollment by November 27th.









Vice Chair Dunning asked if they thought people from this year's program would sign up again or if it was a onetime thing. Mr. Ish answered there were some that came each year to fallow the same land. He stated there are procedures in place to make sure that land that is in excess of 10 acres or that doesn't show a pre-1907 on record is allowed in for a certain amount of time, but then is disenrolled or must transition over to the partial season option, so that there is still continuing irrigation on the property.

Director Kelly asked if doubling the price offered put them in competition with farm to farm leases. Mr. Ish said there was likely a chance to see some make a harder decision about enrolling their land or pursue contract leases.

Director Kelly asked why not raise the price by 50% and increase acreage by 50%. Mr. Ish said they were not sure what kind of enrollment they were going to see by doubling but felt this was required to get the kind of enrollment they were hoping to get over the next two years.

Mr. Casuga said it was important to know they were related to the Compact and were working through issues to try and increase the amount of water moving through the system trying to get to Elephant Butte. He said this created opportunities and good conversations between MRGCD, the state, and federal partners about the need to increase efficiency.

Dr. DuMars noted they had a comparable program in the Imperial Irrigation District and the question was how much the farmers would be willing to fallow their land for and how much they accepted. He said they did not want to offer so much that people began to cease to grow vegetables.

Vice Chair Dunning asked who was picking up the cost for the second year. Mr. Ish answered they had state funding and had until December 2025 to spend it. Mr. Casuga added it was the same money available for MRGCD to use for certain rehabilitation activities with the Low Flow Conveyance Channel also.

Vice Chair Dunning asked if they had to front the money and get reimbursed. Mr. Casuga said he understood that once they entered into the agreement with the state they would have access to those ARPA dollars.

Director Duggins stated he still had a problem with it. He said the valley was becoming more so that the farmer could no longer purchase the land, do the farming, and equipment to do it. He said some farmers could not survive those two years and come back. He said farmers needed more time than two months for the spring crop.

Mr. Casuga said he and his team were fighting tooth and nail to move water and get people to see the value of moving water to Elephant Butte and would continue to do that, and MRGCD was offering programs and doing everything they could to reduce demand. He said the hope

was to create a position if they state goes into debt and not be MRGCD's fault. Mr. Casuga reiterated that the program offered was voluntary.

Director Jiron said they had good intentions but felt the farmers would suffer. He said they needed to focus their time in trying to pay the Compact and get the project going because if El Vado was up and running and they were able to store water, they would be able to stop taking from the farmers. He suggested putting in a clause that if the landowner did want to take their land they should pay back the farmer for putting their money into it.

Mr. Casuga stated if a farmer had an active contract, landowners would not be allowed to be coming into the leasing program without approval from the farmer and MRGCD had no control over the pace of El Vado.

Dr. DuMars added that the BOR was always late in what they did so El Vado would probably not be done by 2027. He said if they didn't have storage there wouldn't be any water available except for San Juan Chama water.

Mr. Casuga explained that they were supposed to have partial storage back by now and did not and expected to hear they were years behind. He stated they had no tool to be able to project anything to a farmer beyond the end of spring runoff and San Juan Chama.

Vice Chair Dunning requested a motion to extend the meeting as they were quickly approaching six o'clock.

Director Kelly made the **MOTION TO EXTEND THE MEETING.** Seconded by Vice Chair Dunning. A vote was taken; all were in favor excluding Director Duggins. **The MOTION CARRIED.**

Mike Hamman stated the state and federal government had tools available to address the long term drought and circumstances of the hydrologic perspective. He reminded the Board that the District had been here before back in the '50s. He said he let the state legislature know about the conditions in the middle and lower Rio Grande and they provided ARPA funding of $15 million with some of it utilized for investment in the Low Flow Conveyance Channel. He said they also had $20 million available to leverage federal funds to approve the San Acacia Reach. He stated they may have had a decent El Nino year, but the trend was still downward, and it was their job to help constituents. Mr. Hamman noted there were lots of other opportunities from the state to have cost share funds for farming and rural communities to adjust to long term aridification.

Dr. DuMars asked if there was any leverage with the Department of Interior to get more money to do some of the other projects they wanted to do. Mr. Hamman answered yes, they were starting to leverage funds for the lower Rio Grande.

Director Kelly stated it was a huge topic to be hit at the board meeting cold and asked about them suddenly tripling the acreage and mentioned adjusting the partial season in the spring to get three months out of it.

Mr. Casuga said staff had never asked for approval on it and staff were just updating the Board. He said he would be happy to bring it back in December to let the Board vote on the Water Leasing Program if they wanted. He was assured that if people did not want to take the program they did not have to. He said he had never seen the Board take options away from the public before.

Director Kelly stated he was just bringing up concerns.

Dr. DuMars added that PBU was an important part of it.

Chair Russo Baca said they discussed the pros and cons it in the Irrigation Committee Meeting and eventually agreed to it.

Lorna Wiggins reminded the Board that every item on the agenda was subject to action, so it would be acceptable to take a vote on it.

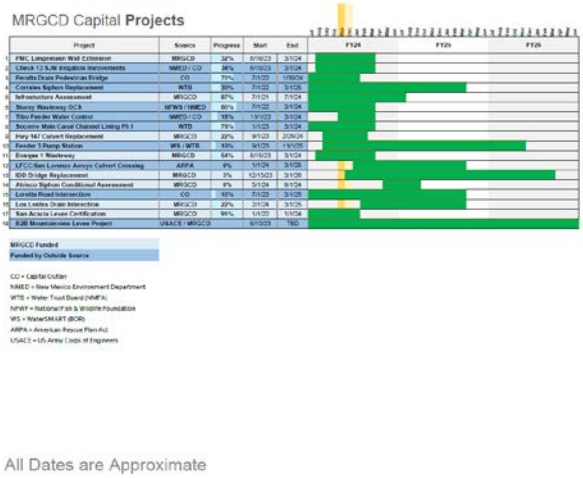
Director Jiron said he was voicing concerns, but Mr. Casuga mentioned good things that he did not think about before. He said it was the farmers right if they did not want to farm for a couple years.

Director Kelly made the **MOTION THAT STAFF CONTINUE AND EXPAND THE LEASING PROGRAM AND THE PRICE PER ACRE BE LOOKED AT BUT NOT EXCEED $700 PER ACRE FOR A FULL SEASON AND NOT EXCEED $400 FOR A PARCEL WITH TOTAL ACREAGE CAPPED AT 8,000.** Seconded by Director Sandoval. A vote was taken; all were in favor excluding the Chair and Vice Chair. **The MOTION CARRIED.**

Vice Chair Dunning explained she voted nay to the motion because she did not want to limit it to 8000 acres.

c. Report on the Engineering Projects - Alicia Lopez, Engineering & Mapping Manager

Alicia Lopez discussed the efforts of the engineering department and gave a list of their eighteen capital projects. She discussed some of their bigger projects, including the Corrales Siphon, Socorro Main Canal Channel lining, Storey Wasteway, and Feeder No. 3. She gave the fiscal year project list of about 40 projects.



Director Kelly asked if the $20 million covered the 40 projects. Ms. Lopez said the $20 million was more for the 18 capital projects.

Director Kelly said to keep a program going like this which is funded now with a one mill increase would be a challenge; chasing grant money, chasing loans, chasing the water trust board, capital outlay and pushing the projects through. One may get held up, but he said to

have one ready to go. He thought she would need another project manager. Ms. Lopez agreed although she said she has a great team of three new engineers. She said as they progress and grow, that need will arise. Mr. Casuga noted that adding a seasoned engineer would help as her team is three strong and splits her time three different ways plus what she does managing larger scale projects. He felt training these three team members, getting them up to speed where they can do the job and allow her to open up space is the best use. He stated they have come a long way since he began with the District eight years ago and the District should be proud of the engineering team. He said they are busy.

d. Report on the Corrales Council Meeting, October 23, 2023 - Jason M. Casuga

Mr. Casuga said he did not give a presentation and was still working through alignment issues. He said he was hesitant to show maps of the final alignment at a public meeting until the pueblo signs off on it. Alicia (Lopez) and Wilson & Company are still coordinating with the Pueblo of Sandia on making sure we understand land ownership information and final alignment. He said they would be pushing for a project to be ready to start construction in November of next year and the siphon operable by irrigation season 2025.

e. Report from the Public Information Officer - Amanda Molina

Ms. Molina talked about two opinion pieces published in the Sunday Albuquerque Journal that brought credibility to MRGCD and helped tell the story and provide more education to folks who many have not known how things worked. She said there were big updates to the website to include the Belen Watershed Study and a form that lets the public submit contact information for more information on the study. She discussed the new service request process on the website also.

Director Kelly suggested giving Dr. Delavan a call since she read the entire website to see her point of view on what stood out and what was buried that should stand out. Ms. Molina agreed.

f. Report on the Six Middle Rio Grande Pueblo Coalition Meeting, November 3, 2023 - Jason M. Casuga, CE/CEO

Mr. Casuga said they went over the offseason. Mr. Zamora reported on much of what Dr. Delavan spoke on earlier today. He said they had a discussion about the water moving through the river currently. Questions came up about the startup of next irrigation season, which again we are working with Sarah on that, and obviously differentiating between prior and paramount versus newly reclaimed land which the Board retains the same level of authority over as it does non-travel land. So, we'll be seeking a balance for that. The end goal is that we'll be able to inform the Coalition at the next meeting that can be passed on to any that change over the next couple of months.

g. Upcoming Events

1. **Socorro Farmers - Irrigators Meeting, November 30, 2023**
2. **Colorado River Water Users Association (CRWUA) Annual Conference, Paris Las Vegas Hotel - December 13-15, 2023**

Mr. Casuga discussed the upcoming events and also discussed the Family Farm Alliance to be held in February.

Dr. DuMars spoke on the Colorado River Water Users Association (CRWUA) meeting and told Mr. Casuga it was a good idea to talk with the ISC and other influential people to see what the options are in the New Mexico v. Texas conflict.

AGENDA ITEM NO. 12 - REPORT(S) FROM THE MRGCD ATTORNEY(s) - Chief Water Counsel or General Counsel

Ms. Wiggins reported that the Amicus brief that the Board authorized to file in the City of Albuquerque v. the Honorable Josh Allison, District Judge, and Williams, as real parties and interest. She said the process is to file a motion for leave to file the amicus, and the amicus is filed at the same time. Also joining as the amicus in this case is Bernalillo County and the DAs office; three amicus. She stated how appreciative people are that MRGCD cleans up trash, it is the City of Albuquerque's position that Judge Allison's injunction, usurped the city's right to enforce its laws and those are laws that we rely on as the MRGCD. She thought it is very timely that we have a comment during this meeting about our role in policing the encampments and cleaning up what happens in the areas of the bosque where the unhoused frequent. She added that it's nice to know Sunday has the largest readership in the Albuquerque Journal, but there was another opinion piece by Pete Dinelli over the weekend stressing his views, that the Supreme Court ought to quash the misguided opinion of Judge Allison.

AGENDA ITEM NO. 13 - REPORT(S) FROM THE BOARD

a. **Report on the Rio Grande Agricultural Land Trust (RGALT) Annual Fundraiser Harvest Dinner, October 14, 2023 - Chair Russo Baca and Vice Chair Dunning**

See Appendix "A" for the Chair's written report.

b. **Report on the Conservation Advisory Committee Meeting, October 19, 2023 - Chair Russo Baca**

See Appendix "A" for the Chair's written report.

c. **Report on the Meeting with U.S. Congressman Vasquez Field Representative Annie Quintana-Eddins, October 24, 2023 - Chair Russo Baca**

See Appendix "A" for the Chair's written report.

d. **Report on the Latinos Farmers & Ranchers International 2023 Congreso, October 26-28, 2023 - Chair Russo Baca**

Madam Chair Russo Baca encouraged others to attend in the future. She felt it has a good showing although it's based in DC, they have a meeting here every year.

Also see Appendix "A" for the Chair's written report.

e. **Report on the Irrigation Committee Meeting, November 1, 2023 - Chair Russo Baca and Directors Sandoval and Duggins**

See Appendix "A" for the Chair's written report.

f. **Report on the 11th Annual Tribal Water Law Conference, November 6-7, 2023 - Chair Russo Baca and Directors Jiron and Sandoval**

Director Jiron said the conference was very informative and interesting to see the level where other tribes were. He felt there were good guest speakers.

g. Report on the 68th Annual NM Water Resources Research Institute's NM Water Conference, November 8-9, 2023 - Chair Russo Baca

The Chair reported that there were two middle Rio Grande growers attend and speak including Mark Garcia, who attended today's meeting earlier.

Also see Appendix "A" for the Chair's written report.

Vice Chair Dunning made the **MOTION TO APPROVE ALL REPORTS FROM THE BOARD.** Seconded by Director Kelly. The **MOTION CARRIED UNANIMOUSLY.**

Vice Chair Dunning requested a motion to move into Executive Session at 7:00 p.m.

Director Kelly made the **MOTION TO GO INTO EXECUTIVE SESSION.** Seconded by Vice Chair Dunning. Rollcall vote was administered, and the **MOTION CARRIED.**

Director Jiron	Yes	Vice Chair Dunning	Yes
Chair Russo Baca	Yes	Director Kelly	Yes
Director Joaquin Baca	Absent	Director Duggins	Absent
Director Sandoval	Absent		

AGENDA ITEM NO. 14 - EXECUTIVE SESSION

a. NMSA 1978 Open Meetings Act, Section 10-15-1(H)2
    1. Limited Personnel Matters

b. NMSA 1978 Open Meetings Act, Section 10-15-1(H)7
    1. Threatened or Pending Litigation

No decisions were made, and Vice Chair Dunning requested a motion to move back into Regular Session at 8:12 p.m.

Director Kelly made the **MOTION TO GO BACK INTO REGULAR SESSION.** Seconded by Director Jiron. Rollcall vote was administered, the **MOTION CARRIED.**

Director Jiron	Yes	Vice Chair Dunning	Yes
Chair Russo Baca	Yes	Director Kelly	Yes
Director Joaquin Baca	Absent	Director Duggins	Absent
Director Sandoval	Absent		

Vice Chair asked if anyone would like to make any motions about the discussion in closed session.

Director Kelly made the **MOTION THAT THE BOARD FIND THE EASTERN PORTION OF THE HARWOOD LATERAL ADJACENT TO MRGCD TRACT 16A AS SURPLUS TO OUR NEEDS AND BEGIN THE PROCESS FOR THE DISPOSAL OF EXCESS RIGHT OF WAY PER PROCEDURE WITH THE CAVEAT THAT THE APPRAISAL OF THE PROPERTY BE BASED ON THE ADDED VALUE OF THAT PARCEL TO THE ADJACENT PARCEL**. Seconded by Madam Chair Russo Baca. Rollcall vote was administered, the **MOTION CARRIED**.

Director Jiron	Absent	Vice Chair Dunning	Yes
Chair Russo Baca	Yes	Director Kelly	Yes
Director Joaquin Baca	Absent	Director Duggins	Absent
Director Sandoval	Absent		

With no further comments, questions, or concerns, Vice Chair Dunning adjourned the meeting at 8:14 p.m.

Approved to be the correct Minutes of the Board of Directors of November 13, 2023

ATTESTED:

_____	_____
Pamela Fanelli, CMA, CGFM	Stephanie Russo Baca, Madam Chair
Secretary/Treasurer	MRGCD Board of Directors

Appendix "A"

Stephanie Russo Baca Board Reports 11.13.23

Report on the Rio Grande Agricultural Land Trust (RGALT) Annual Fundraiser Harvest Dinner, October 14, 2023 – Chair Russo Baca, Vice Chair Dunning, Gutierrez Hubbell House

The event was held at the Historic Gutierrez-Hubbell House in Albuquerque's South Valley on Saturday, October 14, 2023 from 3:00pm to dusk. The community gathered together to celebrate RGALT's work mission to protect land and water for people and wildlife. Local chefs Daniel Garcia and Sean Staggs brought their inspiring culinary artistry to the table, showcasing fresh harvested, seasonal ingredients sourced from nearby farms.

Report on the Conservation Advisory Committee Meeting, October 19, 2023 – Chair Russo Baca, Virtual.

Current Hydrology Update

Del Norte (San Luis Valley) – 436 cfs (August) – 320 cfs (September) – 232 (October)

Lobatos (NM/CO State Line) – 96 cfs (August) – 126 cfs (September) – 112 (October)

La Puente (Rio Chama)– 62 cfs (August) – 54 cfs (September) – 37 (October)

Below Abiquiu (Rio Chama)– 286 cfs (August) – 1,190 cfs (September) – 985 (October)

Otowi (Rio G & Rio C)– 514 cfs (August) – 1,370 cfs (September) – 1,290 (October)

Below Cochiti– 422 cfs (August) – 304 cfs (September) – 310 (October)

Bosque Farms– 22 cfs (August) – 28 (September) – 43 (October)

Narrows (Just above EB)– 125 cfs (August) – 72 (September) – 37 (October)

To date, there has not been a call for the release of P&P water by the Six MRG Pueblos. River conditions are still limiting MRGCD's ability to deliver water to non-tribal farmers in parts of the District.

John Fleck gave an updated on the Colorado River.

Agricultural Irrigation Specialist

Introduce Jose Contreras to the CAC

Presentation on OFP5

EWLP Deliveries

• Combined Credit of 3,581 AF in the EWA/SWA as of October 3rd, 2023

• Combined Debit of (2,757) AF in the EWA/SWA as of October 3rd, 2023

• Balance of 824 AF

• Currently delivery target of 15 cfs (split between 3 outfalls) This will potentially be

dialed back depending on available water supply in the next few weeks.

Outfall Monitoring Update

Ashley Veihl – Water Resources Specialist

Storey Wasteway OCS Update

Compliance for the project was received last week. Engineering Dept. is working on a bid packet for our on-call contractors. Project is on schedule for construction during the winter.

Harvest Reports

Opportunity to hear from the multiple farmers on the Advisory Committee on how their respective harvests are going for the season.

Report on the Meeting with U.S. Congressman Vasquez Field Representative Annie Quintana-Eddins, October 24, 2023

I currently serve on Congressman Vasquez Agriculture Advisory committee as the chair of the MRGCD Board of Directors. I had a follow up meeting with staff member Annie Quintana-Eddins to further discuss water and ag issues within the MRGCD and MRG valley.

Report on the Latino Farmers & Ranchers International 2023 Congreso, October 26–28, 2023 – Chair Russo Baca, Isleta Resort and Casino Conference Room.

This was a three-day conference on topics related to conservation, agroforestry, the farm bill, local and regional food systems as well as women in farming.

Report on the Irrigation Committee Meeting, November 1, 2023 – Chair Russo Baca and Directors Sandoval and Duggins, MRGCD Main Office

Discussion of the 2023 irrigation season and the upcoming irrigation season as well as potential fallowing opportunities.

Report on the 11th Annual Tribal Water Law Conference, November 6–7, 2023 – Chair Russo Baca and Directors Jiron and Sandoval, Hilton Hacienda, Santa Fe.

This was an extremely informative conference on tribal water law issues in the west. Topics included, the current state of Tribal Water Law, water planning, legislative updates, federal, state, and tribal perspectives. One of the most informative talks was on recent water settlements and what may happen in the MRG.

Report on the NMWRRI 68th Annual New Mexico Water Conference, November 8-9 2023- Chair Russo Baca, virtual.

This important conference focused on the Colorado River's role in New Mexico's past, present, and future water management. Topics included the San Juan-Chama Project History and Impacts, management and operations of San Juan-Chama Project water, Tribal water use, water quality and riparian issues, the Water Data Act, and Regional water planning.

MEMORANDUM
LICENSING AND LANDS DEPARTMENT

F.Y.I.

TO: Jason M. Casuga, P.E., Chief Executive Officer/Chief Engineer

THRU: Eric Zamora, P.E., Chief Operations Officer

FROM: Michael Padilla, Right-of-Way Supervisor

DATE: December 7, 2023

RE: M.R.G.C.D. Executed Licenses for November 2023

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1. 306-2022 – License to install and maintain a 60" Ø X 20' culvert crossing within the Gabaldon Lateral right-of-way to serve MRGCD Map 86, Tract 22A, In the care of current owner(s) and its successors, and/or assigns.

2. 330-2022 - License to install and maintain a 60" Ø X 20' culvert crossing within the Pajarito Acequia right-of-way to serve MRGCD Map 51, Tract A1D1, In care of current owner(s) and its successors, and/or assigns.

3. 054-2023 – License with Forrester and Associates, LLC to conduct work associated with the FY23 MRGCD Big Hole restoration invasive spraying project within the Rio Grande floodway right-of-way.

4. 131-2023 – License with Vexus Fiber to install and maintain a buried utility crossing within the Alameda Lateral right-of-way.

5. 139-2023 – License with Vexus Fiber to install and maintain a parallel aerial utility within the Alameda Interior Drain right-of-way.

6. 140-2023 – License with Vexus Fiber to install and maintain a buried utility crossing within the Alameda Interior Drain right-of-way.

7. 163-2023 – License to install and maintain a 72" Ø X 40' culvert crossing within the New Belen Acequia right-of-way to serve MRGCD Map 97, Tract 75C, In the care of current owner(s) and its successors, and/or assigns.

8. 184-2023 – License with Unite Private Networks to install and maintain a buried utility crossing within the Alameda Interior Drain right-of-way.

9. 230-2023 – License with Vexus Fiber to install and maintain an aerial utility crossing within the Alameda Interior Drain right-of-way.

10. 231-2023 – License with Vexus Fiber to install and maintain a parallel aerial utility parallel to the southernly outside 5' within the Alameda Interior Drain right-of-way.

11. 240-2023 AMD1 (2-273-98) – License to amend the existing utility to include the installation of 432 fiber optic cable within existing 4" Ø PVC attached to SR550 and transfer and assign the license with Jones Intercable to Comcast of New Mexico.

12. 244-2023 – License with Public Service Company of New Mexico to maintain an aerial utility crossing with new fiber optic cable within the Atrisco Acequia right-of-way.

13. 267-2023 – Special Use License with RDF Construction to install temporary culvert crossings for construction access for the Sunzia Transmission Line project with the Luna Interior Drain, Sabinal Lateral No. 2, and the Bosque Interior Drain rights-of-way.

14. 271-2023 – License with Comcast of New Mexico, LLC to install and maintain a buried utility crossing within the Bernalillo Acequia right-of-way.

15. 272-2023 – License with Public Service Company of New Mexico to install and maintain a parallel aerial utility within the Atrisco Acequia right-of-way.

16. 289-2023 – License with the Village of Bosque Farms to install and maintain 72" Ø X 40' culvert crossing within the Otero Lateral right-of-way.

17. 296-2023 AMD1 (156-2023) – License amendment with NM Underground Utilities to include additional work associated with the Atrisco Riverside Drain per the Bernalillo County Blvd Reconstruction Phase 2 project.

18. 301-2023 AMD1 (3-056-2020) – License amendment to transfer the license from Mark Garcia to serve MRGCD Map 88, Tract(s) 44A, 46A, 47, & 48 in the care of current owner(s) and its successors and/or assigns.

19. 2303-2023 AMD1 (2-274-98) – License to amend the existing utility to include the installation of 432 fiber optic cable within existing 4" Ø PVC within the Albuquerque Main Canal right-of-way and transfer and assign the license with Jones Intercable to Comcast of New Mexico.

NOV/DEC - PIO Report

MEDIA INTERVIEWS/COVERAGE (SEE CLIPS P.2)

Broadcast

Dec. 5 KOAT-TV
Nov 6: KRQE-TV

Print

Dec 5: Santa Fe New Mexican
Dec 7: El Defensor Chieftain

WEBSITE/Social Media UPDATES/PROJECTS

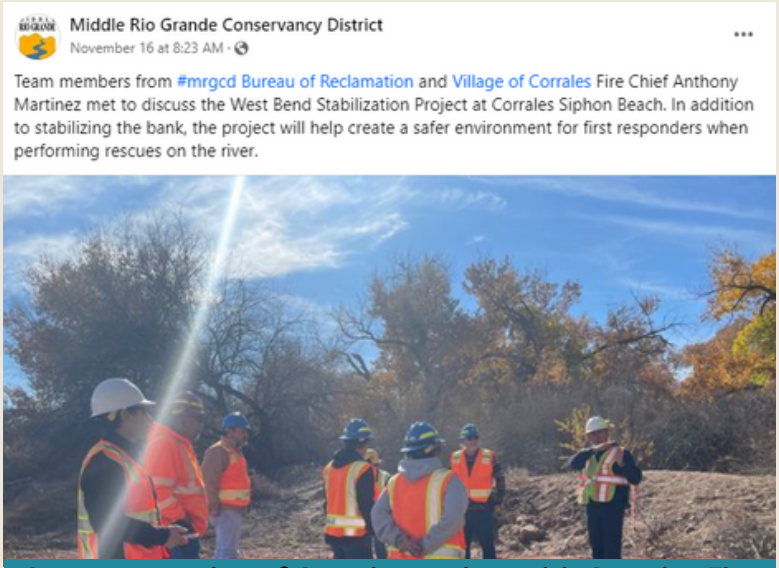
Notice to Village of Corrales Residents: West Bend Bank Stabilization Project impacting Siphon Beach.

Farmers Meetings: Socorro County, Valencia County farmers meeting notices.

Notice Seeking Irrigable Farmland: cross-promotion with Center of Southwest Culture.

Notice to Residents of Belen, Adelino: construction and forestry projects underway.

Additional Social Media



Cross-promotion of Corrales project with Corrales Fire Chief and BOR

Socorro County farmers meeting

MEDIA CLIPS

New Mexico offers some area farmers double for nothing

By Scott Wyland swyland@sfnewmexican.com Dec 4, 2023 Updated Dec 6, 2023 11

A tractor lifts bales of hay at Corky Herkenhoff's Indian Hill Farm in San Acacia in 2021. Herkenhoff, who plants nearly 1,000 acres, said he had no interest in the state's offer to double the amount it pays middle Rio Grande Valley farmers to leave fields barren as it attempts to limit irrigation and send more water to Texas to fulfill its debt under the Rio Grande Compact. "If I can't make more than $700 an acre for what I'm doing, it's a pretty sorry thing," Herkenhoff said.

DECEMBER 7, 2023, E-EDITION

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Dec 4 - Santa Fe New Mexican

"New Mexico offers some area farmers double for nothing"

Coverage of water leasing program

Conserving water ahead of next irrigation season by not watering crops

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KOAT Updated: 7:58 AM MST Dec 6, 2023

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Andres Valle
Reporter/Forecaster

Dec 6 - KOAT-TV

"Conserving water ahead of next irrigation season by not watering crops"

Coverage of water leasing program

NEW MEXICO NEWS

Middle Rio Grande Conservancy District offers farmers more money to not grow crops

by: Marilyn Upchurch
Posted: Dec 6, 2023 / 04:34 PM MST
Updated: Dec 7, 2023 / 10:02 AM MST

Dec 7 - KRQE-TV

"Middle Rio Grande Conservancy District offers farmers more money not to grow crops"

Coverage of water leasing program

MRGCD takes heat on water surface elevation standards

Story by Jessica Carranza Pino, Editor | Dec 7, 2023

Jessica Carranza Pino| El Defensor Chieftain
Farmers and irrigators in Socorro County attended the Middle Rio Grande Conservancy District informational meeting at the Harris Ranch in San Antonio.

A controversial insurance issue received the attention of area farmers during a recent Middle Rio Grande Conservancy District (MRGCD) last week.

MRGCD conducted an informational meeting with Socorro farmers and irrigators on Nov. 30 at the Harris Ranch in San Antonio. About forty farmers and irrigators were in attendance.

MRGCD Chief Engineer/CEO Jason Casuga facilitated the meeting with comments and information from staff, along with board members Glen Duggins, Stephanie Russo Baca, Brian Jiron and John P. Kelly.

Dec 7 - El Defensor Chieftain

"MRGCD takes heat on water surface elevation standards"

DeAnna Philips

From:	Joaquin Baca
Sent:	Wednesday, November 29, 2023 11:15 AM
To:	Stephanie Russo Baca; John P. Kelly; Karen Dunning; Michael Sandoval; Lorna Wiggins; Brian Jiron; Jason Casuga; Glen Duggins
Cc:	DeAnna Philips
Subject:	Resignation and Thank you

Madame Chair,

Please accept this letter as my resignation from the Middle Rio Grande Conservancy District Board of Directors, effective close of the December regular board meeting.

I want to say thank you to all of the staff and my fellow Board Directors, it has been my honor to have served with all of you. I know the District is in good hands as our valley moves forward into the future.

Thank you

Joaquin Baca
Board of Directors, Middle Rio Grande Conservancy District
505 417-6689

RESOLUTION OF THE BOARD OF DIRECTORS
OF THE MIDDLE RIO GRANDE CONSERVANCY DISTRICT

REGARDING REPLACEMENT OF A MEMBER
OF THE BOARD OF DIRECTORS UPON A VACANCY

BD-09-11-23-56

WHEREAS, NMSA 1978, Section 73-18-29 provides, in pertinent part, as follows:

> In case of vacancy through death, resignation, removal from the district or failure of any elected director to qualify, the remaining members of the board shall, by majority vote, fill such vacancy. The person selected to fill such vacancy shall hold such position until the next election of directors in such district. At the next election of directors of such district, following a vacancy, a director shall be elected to fill such vacancy.

WHEREAS, Board of Directors of the Middle Rio Grande Conservancy District (MRGCD) determines that it is in the best interest of the MRGCD to adopt a process to fill a vacancy on the Board,

NOW, THEREFORE, BE IT RESOLVED that upon notice of a death, notice of a removal of an elected director, or upon the effective date of a resignation by a director, the MRCGD shall adhere to the provisions of the Policy adopted contemporaneously with this Resolution, or as that Policy may be amended from time to time by the Board.

PASSED, APPROVED AND ADOPTED this 11th day of September, 2023.

MIDDLE RIO GRANDE CONSERVANCY DISTRICT

Stephanie Russo Baca

Stephanie Russo Baca, Chair of the Board

ATTEST:

Pamela Fanelli

Pamela Fanelli, Secretary-Treasurer/CFO

MIDDLE RIO GRANDE CONSERVANCY DISTRICT
POLICY ON REPLACEMENT OF A MEMBER
OF THE BOARD OF DIRECTORS UPON A VACANCY

Upon notice of the death or removal of an elected director of the MRGCD Board of Directors (Board) or upon the effective date of a director's resignation from the Board, MRGCD shall:

1. Announce the vacancy in a fashion that ensures the public is aware of the vacancy and the opportunity to serve on the Board. The MRGCD shall publish the information that is a part of the election proclamation to ensure the public is informed of who qualifies for the Board vacancy.

2. MRGCD shall establish a deadline of not less than two nor more than four weeks for individuals who are qualified and interested in serving on the Board to respond. Attached to this policy is a copy of the form used by the governor's boards and commissions for appointments.

3. Once the Board receives responses from interested individuals, the Board shall ensure that those responding are qualified for the position, including that the individual is a property owner in the benefitted area where the vacancy exists, is of at least 18 years of age and is eligible to hold office at the time of the installation.

4. The Board shall then decide how many of the interested individuals the Board determines it will interview by rank ordering the candidates. Those discussions shall take place in an open meeting in accordance with the Open Meetings Act.

5. Upon selection of the finalists, the Board shall decide whether to invite the finalists to attend a special or regular board meeting to answer questions from current board members, staff and/or members of the public. Sufficient notice must be provided to the finalists of this opportunity to ensure a fair process.

6. Upon completion of any interviews, the Board shall take action on its selection at an open meeting in accordance with the Open Meetings Act. If the vote results in a tie vote, the Board shall take a second vote. Should the second vote end in a tie, the tie shall be settled by drawing a name from a hat or a coin toss.

7. Following selection, the successful candidate can then be sworn in at that meeting or at a subsequent meeting.

DEPARTMENT OF THE ARMY
CORPS OF ENGINEERS, ALBUQUERQUE DISTRICT
4101 JEFFERSON PLAZA NE
ALBUQUERQUE, NM 87109-3435

November 8, 2023

Planning, Programs and Project Management Division
Civil Works Project Management Branch

Mr. Jason Casuga
Chief Executive Officer/Chief Engineer
Middle Rio Grande Conservancy District
1931 2nd St. SW
Albuquerque, NM 87102

Dear Mr. Casuga,

This letter is to notify you that in accordance with Article II.C and Article VIII of the Project Partnership Agreement for the Rio Grande Floodway, San Acacia to Bosque Del Apache Unit, Socorro County, New Mexico levee project Phase 1 & 2, Phase 2b and Phase 2c or Segment 1 of the Rio Grande Reach is complete and is hereby turned over to MRGCD for operation, maintenance, repair, replacement, and rehabilitation.

Additionally, a final levee inspection was completed the week of August 7th – 11th, 2023 between the USACE and MRGCD to ensure that the levee is fully functional and in satisfactory condition or to assess damage(s) to the levee. Based on the draft levee inspection report, there were no significant findings or issues with the levee, therefore the levee is suitable for turnover and OMRR&R by the MRGCD.

As of the date of this letter, the Rio Grande Floodway, San Acacia to Bosque Del Apache Unit, Socorro County, New Mexico levee project Phase 1 & 2, Phase 2b and Phase 2c is considered active status within the Rehabilitation and Inspection Program/Inspection of Completed Works Program and is eligible for assistance under the Public Law 84-99 program.

If you have any questions, please contact Mr. Brian Sanchez project manager at (505) 342-3326 or myself via email jerre.v.hansbrough@usace.army.mil.

Sincerely,

Jerre V. Hansbrough
Lieutenant Colonel, U.S. Army
Commanding

Enclosures

US Army Corps
of Engineers®
Albuquerque District
Engineering & Construction Division

OPERATION, MAINTENANCE, REPAIR, REPLACEMENT, AND REHABILITATION MANUAL

Rio Grande Floodway
San Acacia to Bosque del Apache Flood Risk Reduction Project
Socorro County, NM

NOVEMBER 2023

OPERATION, MAINTENANCE, REPAIR, REPLACEMENT, AND REHABILITATION MANUAL

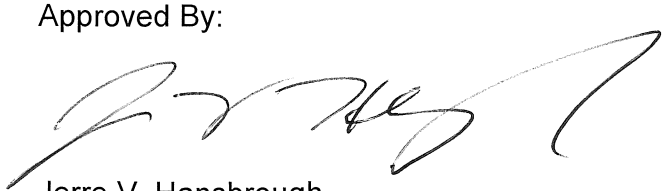
FOR
RIO GRANDE FLOODWAY
SAN ACACIA TO BOSQUE DEL APACHE FLOOD RISK REDUCTION PROJECT
SOCORRO COUNTY, NM

NOVEMBER 2023

Prepared for:
MIDDLE RIO GRANDE CONSERVANCY DISTRICT
1931 2ND ST. S.W
ALBUQUERQUE, NM 87102

Prepared by:
U.S. ARMY CORPS OF ENGINEERS, ALBUQUERQUE DISTRICT
4101 JEFFERSON PLAZA
ALBUQUERQUE, NM 87109

Approved By:



Jerre V. Hansbrough
Lieutenant Colonel, U.S. Army
Commanding

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LIST OF ACRONYMS/ABBREVIATIONS

ACB	Articulating Concrete Blocks
ACE	annual chance exceedance
BMP	Best Management Practice
CGP	Construction General Permit
cfs	cubic feet per second
EC	Engineer Circular
EP	Engineer Pamphlet
FRMS	Flood Risk Management Structure
LFCC	Low Flow Conveyance Channel
LIS	Levee Inspection System
MRGCD	Middle Rio Grande Conservancy District
NAD	North American Datum
NAVD	North American Vertical Datum
NeT	National Pollutant Discharge Elimination Systems eReporting Tool
NLD	National Levee Database
NMESFO	New Mexico Ecological Service Field Office, USFWS
NMISC	New Mexico Interstate Stream Commission
NOI	Notice of Intent
NOT	Notice of Termination
NPDES	National Pollutant Discharge Elimination Systems
NWS	National Weather Service
O&M	Operations and Maintenance
OMRR&R	Operations, Maintenance, Repair, Rehabilitation, and Replacement
PCA	Project Cooperation Agreement
PGP	Pesticide General Permit
PIR	Project Information Report
PL	Public Law
RCO	Readiness and Contingency Operations
RP	Rehabilitation Program
RPM	Reasonable and Prudent Measure
RR&R	Repair, Rehabilitation and Replacement
SADD	San Acacia Diversion Dam
STA	Station
SWPPP	Stormwater Pollution Prevention Plan
USACE	United States Army Corps of Engineers
USBOR	United States Bureau of Reclamation
USEPA	United States Environmental Protection Agency
USFWS	United States Fish and Wildlife Service
USGS	United States Geological Survey
VFZ	Vegetation Free Zone
VMZ	Vegetation Management Zone

1 GENERAL

1.1 Project Purpose, Features and Functions

The United States Army Corps of Engineers (USACE), Albuquerque District, in cooperation with the Middle Rio Grande Conservancy District (MRGCD) and New Mexico Interstate Stream Commission (NMISC), completed the construction of a levee upgrade project that reduces the risk of flood damages within the San Acacia Unit and downstream to the intersection of Brown Arroyo and the Rio Grande.

The purpose of the levee upgrade project is to reduce the risk of flood damages to the City of Socorro, NM, which is located within the San Acacia to Bosque del Apache Unit of the Rio Grande Floodway. The levee study identified six separate segments to be upgraded between the San Acacia Diversion Dam (SADD), located approximately 12 miles north of the City of Socorro, New Mexico and the southern extent of the study area near San Marcial, approximately 15 miles north of the upper extent of Elephant Butte reservoir (Figure 1). The principal city in this reach is Socorro with a 2010 population of 9,051. In addition, eight small agricultural villages occur on the floodplain: Polvadera, Lemitar, Escondida, Luis Lopez, San Antonio, San Marcial, Val Verde and La Mesa. This Operations, Maintenance, Repair, Replacement, and Rehabilitation (OMRR&R) manual applies only to Segment 1, henceforth known as the Socorro Rio Grande Levee. The Socorro Rio Grande Levee unit area extends from the intersection with the Socorro Diversion Channel and to the confluence of the Rio Grande and Brown Arroyo. The levee construction project consists of replacement of the existing spoil bank with an engineered levee for 7.6 miles on the west bank of the Rio Grande, along the alignment of the existing spoil bank, and terminates where Brown Arroyo meets the river.

The upgraded levee will function as a flood risk management system in conjunction with the Socorro Diversion, which is managed by the City of Socorro. The Socorro Rio Grande Levee was broken into several phases of construction controlled by known and anticipated annual funding amounts.

The Socorro Rio Grande Levee construction project consisted of:

- The construction of a new engineered levee 7.6 miles long, with rock riprap protection and a bentonite core.
- Regrading of the east bank and river terrace just below the Socorro Diversion.
- The construction of a soil-bentonite slurry trench and toe drain system to control seepage.
- Construction of a maintenance access road and a levee crest road with ramps between the two roads. Both roads are usable for maintenance purposes by the MRGCD.

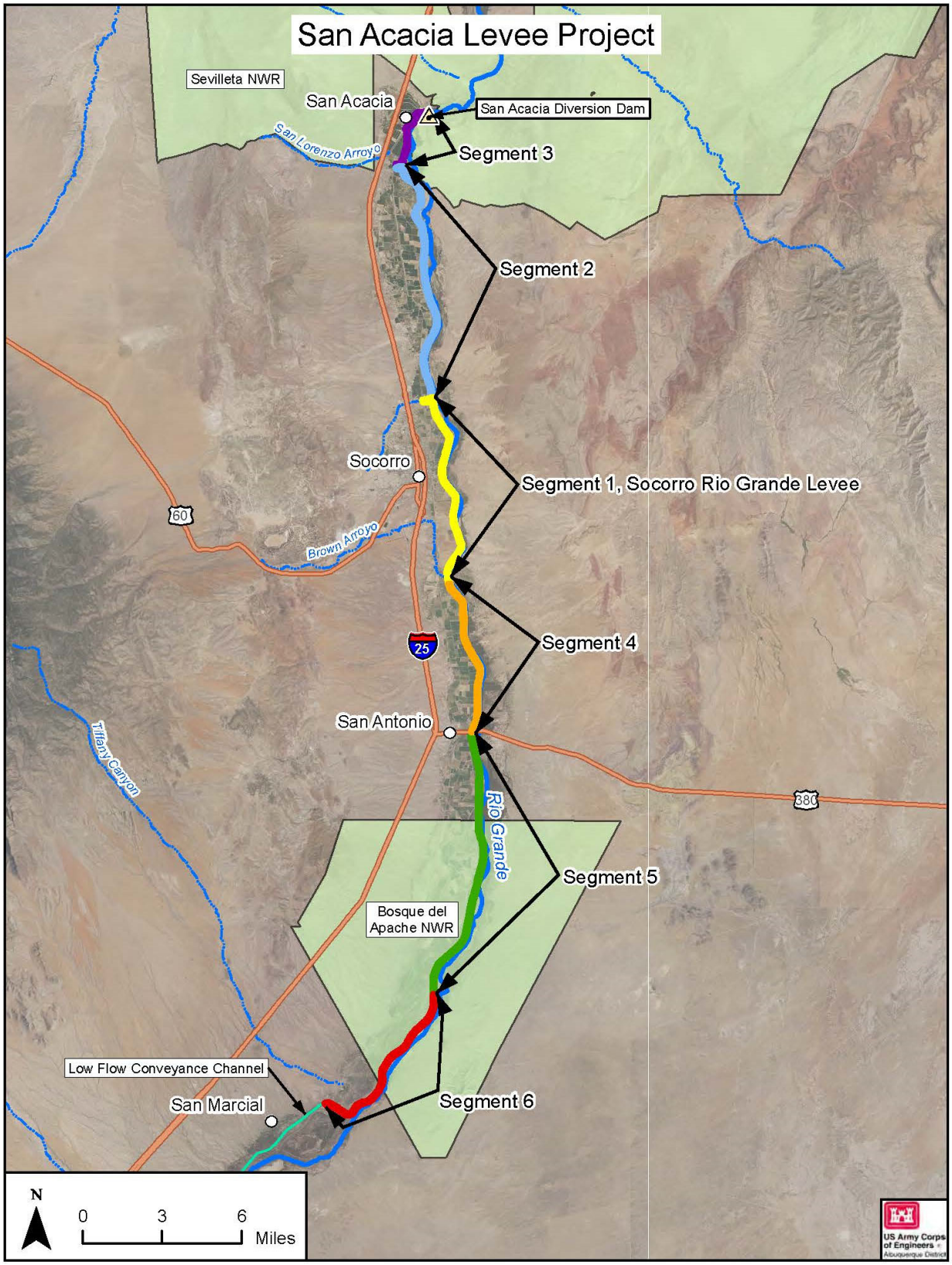

Figure 1. Planned Levee Segment Upgrades (in color)

1.2 Manual Purpose

This OMRR&R manual, hereafter referred to as the Operations and Maintenance (O&M) manual, has been prepared to furnish local interests with information on the project works and advise as to the details of the operation and maintenance requirements applicable to the flood risk management project, to state procedures required by the USACE, and to indicate satisfactory methods of flood-fighting operations and emergency repairs.

1.3 Definitions

Appointed Official. The official (referred to as "Superintendent" in the Code of Federal Regulations) who must be responsible for the development and proper functioning of the OMRR&R organization in accordance with the instructions provided in this manual. The Superintendent's counterpart at USACE is the District Engineer.

Channel. A natural or artificial watercourse with definite bed and banks to confine and conduct flowing water.

Channel Capacity. The maximum flow that can pass through a channel without overflowing the banks.

Chief Engineer. The primary executive officer for the MRGCD who serves as the primary point of contact for all issues related to the Socorro Rio Grande Levee.

Cooperation Agreement. An agreement entered into by a District Commander (acting as the agent for the Department of the Army on behalf of the United States Government) and the public sponsor for the purpose of identifying each party's rights and obligations concerning the expenditure of federal funds under authority of PL (Public Law) 84-99 (Emergency Response to Natural Disasters).

District Engineer. The District Engineer of the Albuquerque District, Corps of Engineers, U.S. Army, or their authorized representative.

Emergency. A situation involving a natural or technological disaster that would result in an unacceptable hazard to human life, a significant loss of property, or significant economic hardship.

Flood. Abnormally high water flow or a water level that overtops the natural or artificial confining boundaries of a waterway. A general and temporary condition of partial or complete inundation of normally dry land areas from the overflow of river and/or tidal waters and/or the unusual accumulations of waters from any sources.

Flood Risk Management Structures (FRMS). Structures designed and constructed to have appreciable and dependable effects in preventing damage caused by irregular and unusual rises in water level. FRMS may include levees, channels, floodwalls, dams, and federally authorized and constructed hurricane or shore protective structures. Structures designed and constructed to protect against saltwater intrusion or tidal fluctuations, channel alignment, navigation, recreation, fish and wildlife, land reclamation, or to protect against land erosion are not considered to be FRMS. A riprap bank erosion control structure is not considered to be a flood control work.

Flood Periods. Shall be defined to mean the period of time when flow in the Rio Grande is 10,000 cubic feet per second (cfs) or greater measured at the United States Geological Survey (USGS) 08354900 Rio Grande Floodway at San Acacia, NM gage. The National Weather Service (NWS) states that flow of 8,000 to 10,000 cfs for a period of 5 to 10 days would result in significant bank erosion outside of levee protected areas.

Flood Season. The official monsoon flood season (rainfall) is the period of time beginning on June 15th of each Calendar year and ending on September 30th. The monsoonal events are short duration (30 minutes to 6 hours typically) high intensity precipitation with resulting high peak discharges.

Spring snowmelt runoff affects this area as regulated flow releases from upstream reservoirs are of long duration (one to three months). Typically, regulated snowmelt runoff occurs as early as March and runs through June each Calendar year.

Flood Stage. The water surface elevation of a river, stream, or body of water, above which flooding and damages normally begin to occur, normally measured with respect to a specific reference gage. Flood stage is normally the level at which a river overflows its banks. Flood stage for any particular geographic area is unique to that geographic area.

High Water. Shall be defined to mean the period of time when flow in the Rio Grande is 4,000 cfs or greater from regulated flow or 7,380 cfs from rainfall events (these translate to roughly the 50% annual chance exceedance events) as measured at the USGS 08354900 Rio Grande Floodway at San Acacia, NM gage.

Rehabilitation Program (RP). A component of the Civil Emergency Management Program concerned with the inspection and rehabilitation of FRMS.

Rehabilitation Project. An action or series of actions focused of the repair of an Active flood control work to return the FRMS level of protection to its pre-flood/pre-storm level.

Responsible Agency. The principal local organization to which the responsibility for OMRR&R of the Project has been delegated.

2 AUTHORIZATION

The Rio Grande Floodway, San Acacia to Bosque del Apache Unit Project was authorized for construction by the Flood Control Act of 1948 (Public Law [P.L.] 80-858, Section 203), in accordance with the recommendation of the Chief of Engineers, as found in House Document No. 243, 81st Congress, 1st Session, dated 5 April 1948.

The area of the project, San Acacia to Bosque del Apache Unit, is one unit within the comprehensive plan of development for flood control in the Rio Grande Basin, New Mexico that was authorized by the Flood Control Acts of 1948 (P.L. 80-858, Section 203) and 1950 (P.L. 81-516), in accordance with the recommendations of the Chief of Engineers, as found in House Document No. 243, 81st Congress, 1st Session, dated April 5, 1948. The authority provided a comprehensive plan for coordinated development, by the USACE and United States Bureau of Reclamation (USBOR), of water resource and flood risk management on the Rio Grande commencing near Truth or Consequences at about River Mile 123 and extending upstream to the lower end of the Rio Grande Canyon 14 miles above Española, New Mexico, at about River Mile 394. The comprehensive plan included channel rectification, improvement of irrigation works, dredging, construction of three reservoirs, and levee enlargement and construction. A November 1947 agreement delegated responsibility for channel rectification and maintenance to USBOR and facilities for local flood protection to the USACE. The preparation of this O&M manual is in accordance with guidance provided in ER 1110-2-401. This O&M manual provides basic guidance and instructions to sponsor personnel for proper operation and maintenance of the San Acacia to Bosque del Apache Unit. The effectiveness and life span of the project are largely dependent upon the quality of the O&M program, which is the responsibility of the sponsor. Implementation of routine and timely O&M may make the difference between a long and useful life for the project or early failure of the system. O&M and inspection programs are necessary to ensure the proper functioning of the structure and to protect the investments made.

The manual is written for trained project personnel who are expected to use self-initiative to operate and maintain the project in the best interest of the MRGCD and the general public within the framework of controlling regulations. The following sections of this report provide information about the roles between the MRGCD and USACE.

3 LOCATION

The Socorro Rio Grande Levee starts at the Socorro Diversion Channel and stops at confluence of the Brown Arroyo and the Rio Grande (Figure 2). The principal city in this reach is Socorro, with a 2010 population of 9,051. The western boundary of this section of the river basin is marked by the Magdalena, Chupadera, and Lemitar Mountains, and the eastern boundary by a series of lower ranges. The land included within the project extends from just east of Escondida to an area south of Socorro, approximately 7.6 miles long.

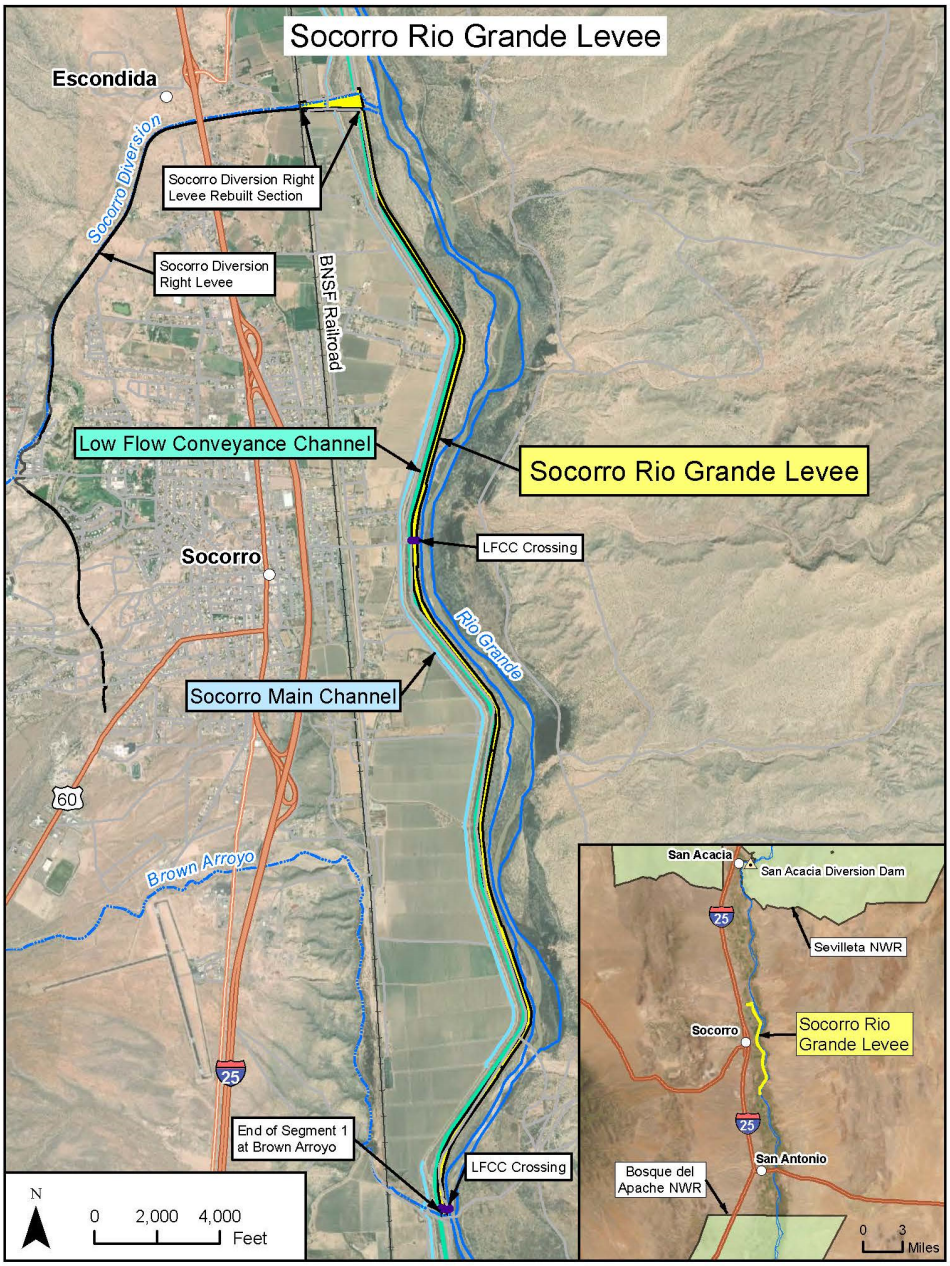

Figure 2. Location of the Socorro Rio Grande Levee (in color)

4 PERTINENT INFORMATION

4.1 General Characteristics

The engineered Socorro Rio Grande Levee was constructed to replace the spoil bank levee on the west side of the Rio Grande. The previous spoil bank levee was built in the 1950's from spoil material when the USBOR constructed the Low Flow Conveyance Channel (LFCC). The Socorro Rio Grande Levee, along with the Socorro Diversion Channel Right Levee, comprise the Socorro Levee System, which together reduce flood risks to the city of Socorro (shown in Figure 2 and Figure 5). These levees are registered in the National Levee Database (https://levees.sec.usace.army.mil/#/).

The overall project concept was developed in the Rio Grande Floodway, San Acacia to Bosque Del Apache Unit General Reevaluation Report and Supplemental Environmental Impact Statement II prepared by the USACE dated October 2013. The project features are identified in that report as the recommended plan. The new engineered levee will provide protection from high and low frequency flood events and long-term inundation of the levee.

4.2 Climate and Effects on Erosion

The climate throughout the San Acacia to Bosque del Apache Unit is similar to that of the City of Socorro. The City of Socorro is located on the floodplain, within the study reach, and receives less than 10 inches of precipitation per year. This precipitation is highly variable and can deviate from the average by as much as 50%. Precipitation falls mainly as summer and fall storms typified by heavy, short-duration bursts of rain with significant erosion potential. Only 6-7 inches of snow falls in the city. Both summer rain and winter snows increase in intensity with elevation in the area surrounding the Middle Rio Grande. In Socorro, average January temperatures are 23°F while in July the average is 93°F. Evapotranspiration exceeds precipitation in the summer months. Regional vegetation outside the floodway is sparse and xerophytic. The combination of low precipitation and abundant bare ground contributes to the high sediment loads typical of discharge contributed to the Rio Grande from ephemeral washes and permanent streams in the area.

4.3 Geology

The project area lies within the San Marcial Basin in New Mexico, which extends from San Acacia to the upper end of Elephant Butte Reservoir. This basin is bounded to the west by the Socorro, Magdalena, and San Mateo mountains. These three ranges are composed primarily of Datil volcanic rocks of Tertiary age overlying sedimentary rocks of Mississippian, Pennsylvanian, and Permian age. The eastern boundary is the San Pasqual Platform, which is a north-south trending block of Mesozoic sedimentary rocks overlain by the Tertiary Santa Fe Formation. The soils in the project area are comprised mostly of alluvium made up of sands, silts, and clays.

4.4 Features Constructed as Part of the Project

As-built drawings for features constructed in this project are provided in Appendix A. A typical cross-section of the levee with the above-mentioned components are shown in Figure 3.

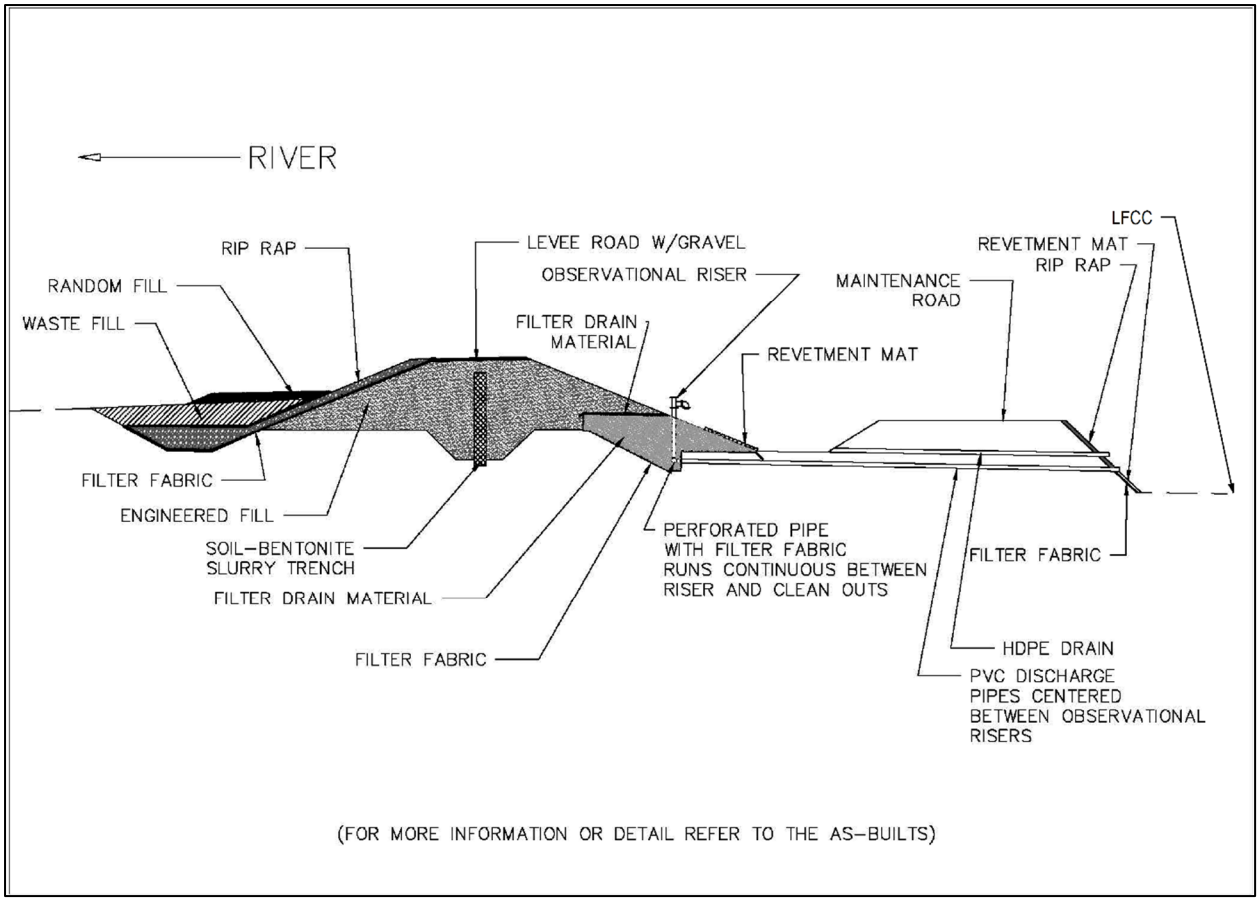

Figure 3. As-Built Cross-Section of the Levee and Components

Levee

The new engineered levee replacing the spoil bank is trapezoidal in cross-section with a 15-foot-wide crest. Levee side slopes are 1V:2.5H typical. The levee height ranges roughly between 5 feet at the northern end and 15.5 feet at the southern end. The levee system consists of 8-inch perforated pipe toe drains, 8-inch discharge pipes into the LFCC, and an 8-foot-wide by 4-foot-high inspection trench with 1V:1H side slopes. In addition, there is a 2-foot-wide soil-bentonite slurry trench from 2 feet below the levee embankment crest to 5 feet into the foundation material. The new engineered levee is constructed from materials obtained on site from demolition of the existing spoil bank, a bentonite core, and riprap erosion protection. Construction of the new levee included rehabilitating a portion of the Socorro Diversion Channel Right Levee segment from station (STA) 10+00 to 30+00 to ensure levee performance at this junction during long duration flood events.

Soil-Bentonite Slurry Trench

Because the design duration of the river flow against the levee was increased due to a balanced hydrograph, it was determined that a “slurry trench” would be constructed to provide seepage control. The soil-bentonite slurry trench extends from 2 feet below the levee embankment crest to 5-feet into the foundation material.

Toe Drain System

The levee embankment was constructed on thick deposits of pervious materials overlain with little or no impervious material, therefore foundation seepage was a serious design problem. To mitigate this, a toe drain system was modeled, designed and installed as a method of protecting the levee embankment toe from seepage (piping resulting from head differentials) and to intercept shallow foundation seepage. The toe drain consists of a network of subsurface seepage collector pipes and a landside drainage blanket that extends one-third the foundation width. The Socorro Rio Grande Levee was constructed with a toe drain its entire length whereas the rehabilitated portion of the Socorro Diversion Channel Right Levee was not constructed with a toe drain system.

Maintenance Access Road

A maintenance access road and levee crest road were constructed to facilitate maintenance. The maintenance access and levee crest roads are both approximately 15-feet wide. Several maintenance ramps were constructed connecting the access road to the levee crest road.

4.5 Flood Control Regulations

The information contained in this O&M manual conforms to and references para. 208.10 – Local Flood Protection Works; Maintenance and Operation of Structures and Facilities, Title 33– Navigation and Navigable Waters of the Code of Federal Regulations by the Acting Secretary of the Army on 9 August 1944 and published in the Federal Register of 17 August 1944. A copy of the regulations is attached in Appendix B.

The general intent of the Flood Control Regulations approved by the Secretary of the Army is stated in paragraph 208.10 (a) (1) as follows:

> "*The Structures and facilities constructed by the United States for local flood protection shall be continuously maintained in such a manner and operated at such times for such periods as may be necessary to obtain the maximum benefits.*"

4.6 Responsibilities

A. Responsibilities of the MRGCD

Details of the MRGCD's duties will be developed in other portions of the manual. The general duties should include the training of key personnel in such a manner that all contingencies may be handled in an expeditious manner. The MRGCD should ascertain that all key personnel have read those portions of the O&M manual pertaining to their duties. The MRGCD should have available the names, addresses, and phone numbers of all the key personnel, including volunteers, and a number of substitutes, if possible. These key personnel should, in turn, have similar data on all the personnel necessary for assistance in the discharge of their duties. The key personnel should include the following:

- An assistant to act for and in the absence of the Chief Engineer.

- If available, Section leaders will lead maintenance patrol work of the entire levee during flood monitoring and flood fighting efforts. High qualities of leadership and responsibility are necessary for these positions.
- The name and address of the Chief Engineer appointed by the MRGCD to be responsible for the continuous inspection, operation, and maintenance of the project works shall be furnished to the District Engineer and in any case of change of Chief Engineer the District Engineer shall be so notified.

B. Assistance Furnished by the District Engineer

The District Engineer will:

- Furnish to local interests As Built Drawings of the project works at the time they are transferred.
- Make periodic inspections of the project works and notify the local interests of any repairs or maintenance measures which the District Engineer deems necessary in addition to the measures taken by local interests.
- Make prior determination, Section 408, that any proposed encroachment, improvement, excavation, or construction within the right-of-way, or alteration of the project works, will not adversely affect the functioning of the protective facilities, and to furnish local interests with a written response. Section 408 permissions will follow the guidance provided in EC 1165-2-220 (Appendix J), "Policy and Procedural Guidance For Processing Requests to Alter US Army Corps of Engineers Civil Works Projects Pursuant to 33 USC 408" or subsequent updates to the guidance.
- Assist local interests, as may be practicable, in their duties of ascertaining storm developments having flood-producing potentialities, assembling flood-fighting forces and materials, and assist Sponsor in carrying out flood-fighting operations.

4.7 Semiannual Report

The semiannual reports required under Paragraph 208.10(a)(6) of the regulations should be submitted by MRGCD, and to the USACE Albuquerque District Engineer, within a ten-day period prior to 1 June and 1 December of each year and should include all dated copies of reports of inspections made during the period of report. Also, the nature, date of construction, and date of removal of all temporary emergency repairs and the dates of permanent repairs should be included in this report. Repairs are defined as activities which return the levee/project to its original as-constructed cross section. Other items and suggestions relative to public cooperation, public sentiment on the benefits obtained, and other allied subjects are considered pertinent and desirable data for inclusion in the report but are not required.

4.8 Safety Requirements

Work performed as part of OMRR&R will expose personnel to certain hazards. The MRGCD should incorporate all applicable federal, state, and local safety regulations into operating

procedures and permanent operating personnel and/or temporarily employed personnel, including volunteers, must be given the necessary protective equipment and apparel together with instructions to conduct their work without undue exposure to existing or expected hazards. Patrol teams employed during high water periods (see Section 1.3 for definition) should consist of not less than two persons. MRGCD personnel safety is ultimately and solely the responsibility of the MRGCD.

4.9 Drawings

Detailed "as-built" record drawings and data necessary for the operation and maintenance of the protective works are included as Appendix A. See Section 5 for a summary of the four phases of construction, Phase I, Phase II, Phase IIB and Phase IIC. The drawings in Appendix A are separated by each phase.

4.10 Real Estate

The Socorro Rio Grande Levee consists of land that the Non-Federal Sponsor, MRGCD, owns in part. Title for the majority of these lands has been conveyed to the United States pursuant to the 1951 Repayment Contract between MRGCD and the USBOR. Because MRGCD completed its repayment obligations to the U.S. in 1999, the USBOR and MRGCD are, as of the date of this document, pursuing the transfer of title back to MRGCD for a large portion of MRGCD's benefitted area south of Albuquerque, which includes the Socorro Rio Grande Levee. There are certain project works that were built and are maintained primarily by the USBOR (referred to as "reserved works") that are owned by the United Sates and will not be transferred to MRGCD in the pending title transfer: the low-flow conveyance channel and Drain Unit 7 extension.

4.11 Project Survey Control

All features constructed as a part of this project are referenced to the North American Datum (NAD) of 1983, New Mexico State Plane Central horizontal datum. Vertical data is referenced to the North American Vertical Datum (NAVD) of 1988. Survey control points associated with this project exist on site and can be found in Appendix A – As-Built Drawings.

4.12 Hydrologic Facilities

The gage station used in the operation of the flood control project is the USGS 08354900 Rio Grande Floodway at San Acacia, NM located upstream of Socorro, NM. The gage is located approximately 12 river miles upstream from the Socorro Diversion. The flowrate at the gage should be checked during periods of high flow to trigger levee patrols to inspect and note any problem areas so corrective action can be taken in a timely manner. Table 1 shows the information about this gage as provided by the USGS. The gage location is shown on the location map in Figure 4. Information on the USGS gage and data output from the gage can be found at https://waterdata.usgs.gov/nm/nwis/inventory/?site_no=08354900

Table 1. Gage Information

Gage Name	Rio Grande Floodway at San Acacia, NM
Gage Identifier	USGS 08354900
Nearby City	Socorro, NM
County Name	Socorro County, NM
River Basin	Rio Grande
Agency Name	USGS
Hydrologic Area	23,830 square miles
Latitude	34°15'23"
Longitude	106°53'27"
Vertical Datum	4,643.06 feet NAVD 88
Monitor Discharge Flow*	10,000 cfs monsoon/4,000 cfs regulated flow
1% Flood Discharge	29,900 cfs @ San Acacia Gage

*The flowrate at the gage should be checked during periods of high flow to trigger levee patrols to inspect and note any problem areas so corrective action can be taken in a timely manner.

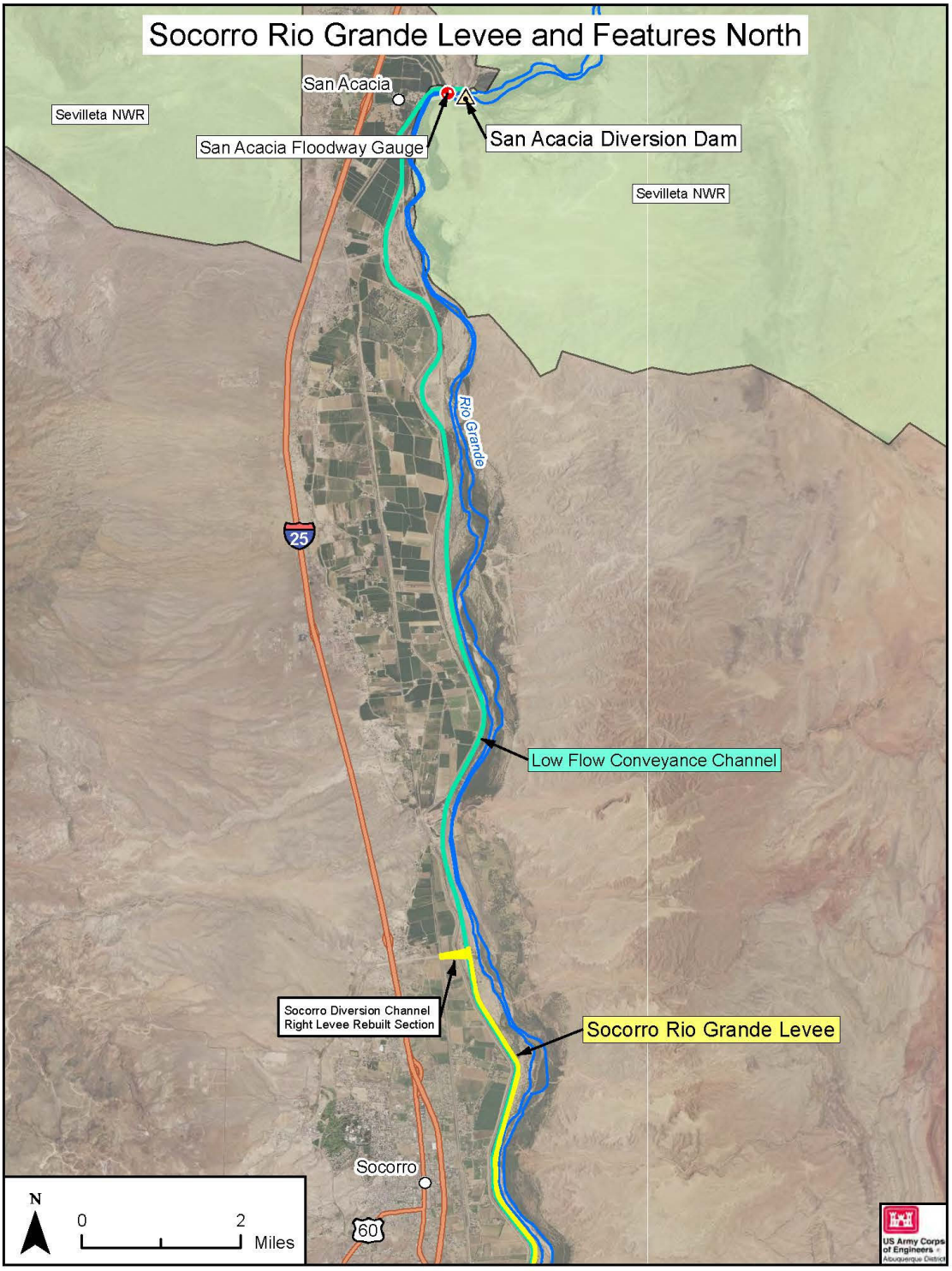

Figure 4. USGS 08354900 Rio Grande Floodway at San Acacia, NM (in color)

4.13 Project Improvements and Alterations

The MRGCD is responsible for ensuring no unauthorized alterations are occurring within the lands and real property interests identified and acquired for the project. Requests to alter the project will require prior permission from the USACE Albuquerque District pursuant to U.S. Code Title 33, Section 408. Section 408 permissions will follow the guidance provided in Engineer Circular (EC) 1165-2-220 (Appendix J), or subsequent updates to the guidance. Additionally, a requester has the responsibility to acquire all other permissions or authorizations required by federal, state, and local laws or regulations, including any required permits from the USACE Regulatory Program (Section 10/404 permits).

5 CONSTRUCTION HISTORY

In October 2014, the USACE awarded a contract for construction of Phases I and II of the San Acacia to Bosque del Apache Unit. (This award date is two years later than the October 2012 date stated in the USACE's Biological Assessment [available at the USACE District office upon request].)

The USACE Albuquerque District was responsible for the development of the plans and specifications for the project and performed contract administration and construction oversight. The project was designed in-house primarily by District personnel with certain components designed by the USBOR as in-kind contributions to the project. Construction drawings and specifications can be found in the Geotechnical Completion and Materials Report (Appendix K) for the Socorro Rio Grande Levee.

The Socorro Rio Grande Levee construction project was separated into 4 phases (Phase I, Phase II, Phase IIB and Phase IIC). The Geotechnical Completion and Materials Report (Appendix K) documents the design, specification requirements, and construction of the improvements constructed for Phase I, Phase II, Phase IIB, and Phase IIC. Table 2 lists project stationing and phases and the location of these phases are presented in Figure 5. Construction of the Socorro Rio Grande Levee segment included rehabilitating a portion of the Socorro Diversion Channel Right Levee segment from STA 10+00 to STA 30+00. The portion was rehabilitated to ensure levee performance during long duration flood events. Phase I consists of the area from STA 30+00 to STA 182+00. Phase II consists of the area from STA 182+00 to STA 254+00. Phase IIB consists of the area from STA 254+20 to STA+60. Phase IIC consists of the area from STA 359+60 to STA 411+00 where the levee ends at Brown Arroyo. Phase I and Phase II were constructed by Kirkland Construction under Contract No. W912PP-14-C-0039 ($18,548, 937), Phase IIB was constructed by Rocky Mountain Excavating under Contract No. W912PP-14D-0024 ($15,810,307), and Phase IIC was constructed by Rocky Mountain Excavating under Contract No. W912PP-16-C-0016 ($5,365,703).

Table 2. Project Stationing and Phases

Phase I	STA 30+00 – STA 182+00
Phase II	STA 182+00 – STA 254+00
Phase IIB	STA 254+20.11 – STA 359+60
Phase IIC	STA 359+60 – STA 411+00 (End of levee @ Brown Arroyo)

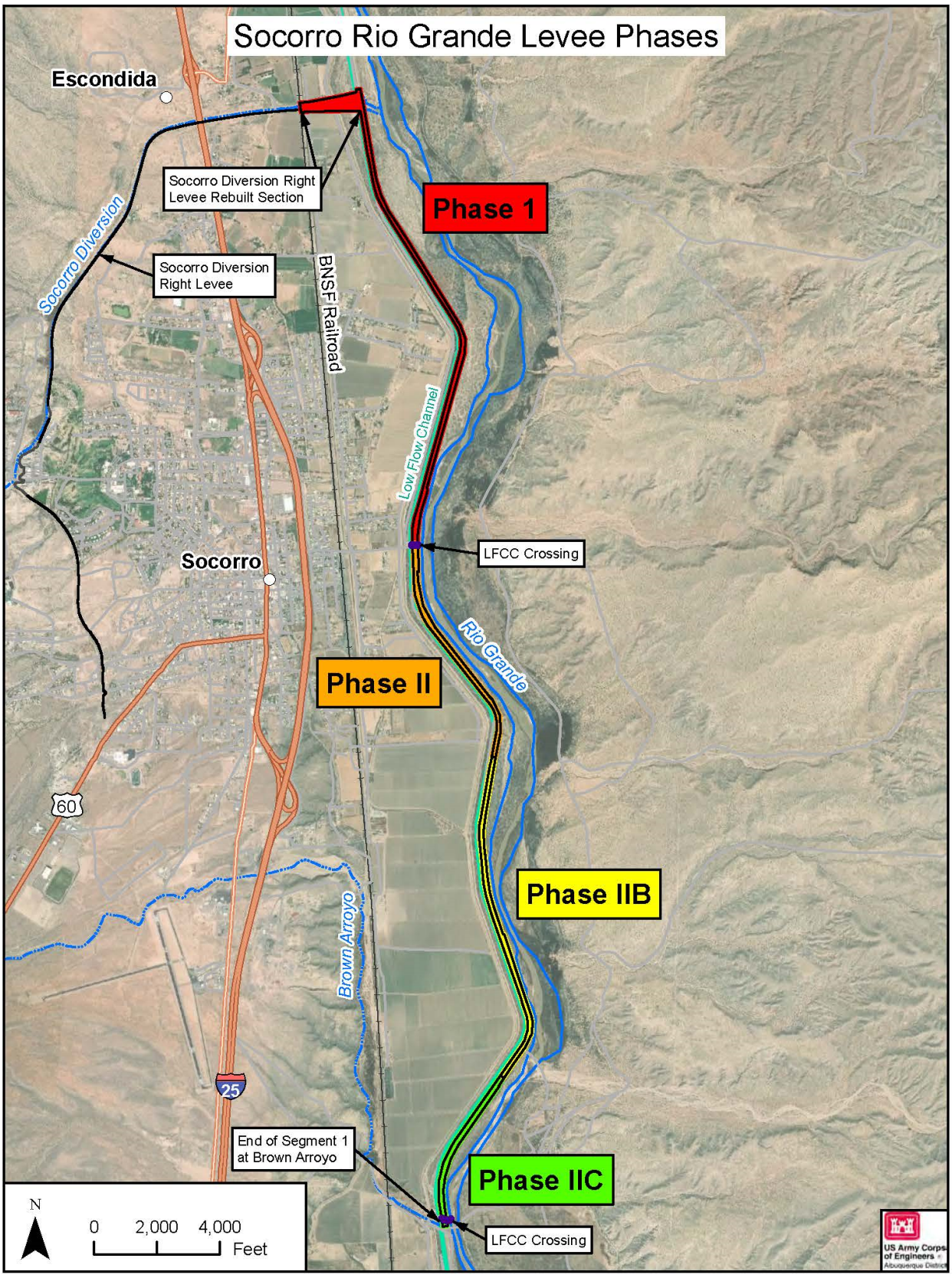

Figure 5. Project Location and Phases (in color)

Construction of the levee for Phases I and II began on the southernmost project limit and progressed northward to the SADD outfall. The existing spoil bank was rebuilt and compacted into new levee embankment. The soil bentonite slurry wall was placed in the same direction, south to north, after the entire embankment was constructed.

Phase IIB was constructed in a similar fashion, but with work starting on the northernmost limit butting up to Phase I-II and heading southward. The bentonite slurry wall was placed after construction of the entire embankment was completed.

Phase IIC was constructed starting at the northernmost construction limit abutting Phase IIB and heading southward, ending at Brown Arroyo. The bentonite slurry wall was placed after construction of the entire embankment was completed.

Construction completion for Phase I-II was 02 February 2017. Construction completion for Phase IIB was 19 January 2017. Construction completion for Phase IIC was 14 June 2017.

A summary of stations, elevations, and levee lengths and widths for each construction phase is shown in Table 3.

Table 3. Socorro Rio Grande Levee Statistics by Construction Phase

Operational Objective	**Flood Control**
Completion Date	2017
Stream System	Rio Grande River
OMRR&R Responsibility	Middle Rio Grande Conservancy District (MRGCD)
Elevation Datum	NAVD 1988
Levee - Phase 1	**Type: Non-zoned earthfill**
Top of Levee Embankment Elevation (as-built)	4624.59 to 4602.85 feet
Station Start and End	10+00 to 182+00
Maximum Height	10 feet
Levee Length	17,200 feet
Top Width	15 feet
Levee - Phase II	**Type: Non-zoned earthfill**
Top of Levee Embankment Elevation (as-built)	4602.85 to 4598.14 feet
Station Start and End	182+00 to 254+00
Maximum Height	10 feet
Levee Length	7,200 feet
Top Width	15 feet

Levee - Phase IIB	Type: Non-zoned earthfill
Top of Levee Embankment Elevation (as-built)	4598.14 to 4591.00 feet
Station Start and End	254+00 to 359+60
Maximum Height	10 feet
Levee Length	10,560 feet
Top Width	15 feet
Levee - Phase IIC	**Type: Non-zoned earthfill**
Top of Levee Embankment Elevation (as-built)	4591.00 to 4586.56 feet
Station Start and End	359+60 to 411+00
Maximum Height	10 feet
Levee Length	5,140 feet
Top Width	15 feet
All Phases combined	
Top of Levee Embankment Elevation (as-built)	4624.59 to 4586.56 feet
Station Start and End	10+00 to 411+00
Maximum Height	10 feet
Levee Length	40,100 feet
Top Width	15 feet

Table 4 lists key design personnel, Table 5 lists key construction personnel, and Table 6 lists key contractor personnel.

Table 4. Key Design Personnel

Name	Organization	Title
Jerry Nieto, P.E.	CESPA-PM-C	Project Manager
Brian Sanchez	CESPA-PM-C	Project Manager
Chris Velasquez, P.E.	CESPA-EC-EC	Civil Engineer (General)
Bruce Jordan, P.E.	CESPA-EC-GG	Civil Engineer (Geotechnical)
William Deragon	CESPA-PM-LE	Biologist
Corina V. Chavez	CESPA-EC-EC	Civil Engineer
Ronnie Casaus	CESPA-EC-EC	Civil Engineer Tech
Nadine Taylor	CESPA-EC-EC	Civil Engineer Tech
Rachelle D. Ramos, P.E.	CESPA-EC-GG	Chief, Geotechnical Section
Julie Alcon	CESPA-PM-LE	Chief, Environmental Resources Section

Name	Organization	Title
Gregory Everhart	CESPA-PM-LE	Archaeologist
Tamara Massong, P.H.	CESPA- PM-LH	Chief, Hydrology and Hydraulic Section
Vincent Vigil, P.E.	CESPA-PM-LH	Hydraulic Engineer
Michael Prudhomme, P.E.	CESPA-ECT-C	Chief, Cost Engineering Section
Timothy Tetrick	CESPA-ECT-C	Estimator
Steve Boberg, P.E.	CESPA-PM-LH	Civil Engineer (Hydraulics)

Table 5. Key Construction Personnel

Name	Organization	Title
Matthew Bonner, P.E.	CESPA-EC-GG	Civil Engineer (Geotechnical)
Philip Lovato, P.E.	CESPA-EC-EF	Civil Engineer (Structural)
William Deragon	CESPA-PM-LE	Biologist
Paul Gendron, P.E.	CENWS-EC-DB-SP	Civil Engineer (Specifications)
Joan Coffing, P.E.	CESPA-EC-CK	Resident Engineer
Jacob Chavez, P.E.	CESPA-EC-CK	Project Engineer
Kevin Vigil	CESPA-EC-CK	Project Engineer
Ray Gomez, P.E.	MRGCD	Project Engineer
Jason Casuga, P.E.	MRGCD	Civil Engineer

Table 6. Key Contractor Personnel

Name	Title
Phase I-II: Kirkland Construction	
Pete Saint	Superintendent
Jace Kirkland	Superintendent
Dick Maley	Superintendent
Mark Dominguez	QC Manager
Phase 2B: Rocky Mountain Excavating	
Sean Shelbourn	Project Manager
Terry Murray	Superintendent
George Wendell Leonard	QC Manager
Phase 2C: Rocky Mountain Excavating	
Sean Shelbourn	Project Manager
Trent Burns	Superintendent
George Wendell Leonard	QC Manager

6 PROJECT PERFORMANCE

6.1 Project Performance

This flood risk management project provides benefits to the city of Socorro, while minimizing impacts on the opposite bank of the Rio Grande. The project provides a level of performance as discussed below. From the very upstream limit of the new levee at the Socorro Diversion confluence and down to the Brown Arroyo confluence with the Rio Grande, the levee is designed to convey the mean 1% annual chance exceedance (ACE) event peak flow from a short duration rainfall event shown below (20,440 cfs at Socorro) with an additional 4-feet of levee height above the water surface elevation. The levee will convey the mean 0.5% ACE event (26,170 cfs at Socorro) water surface elevation with approximately 3-feet of additional levee height. The levee will also convey the mean 0.2% ACE event (32,900 cfs at Socorro) water surface elevation with 1.5 to 2-feet of additional levee height. The levee will provide the benefit of flood risk reduction for the City of Socorro against the 1% and 0.5% ACE peak flow events. However, it may not fully provide the benefit of flood risk reduction for the City of Socorro against the 0.2% ACE flood event.

Discussion regarding final levee height can be found in Section 4.6.5.2 of the October 2013 General Reevaluation Report and Supplemental Environmental Impact Statement II. Page 4-28 discusses the results of the risk-based analysis and the determination that levee height be based on the spoil/borrow requirements. It states in part:

> "It is unlikely that a larger levee would generate more net benefits for the following reasons. The amount of soil present in the existing spoil bank far exceeds the amount needed for the Base Levee. Since any proposed engineered levee will follow the same alignment as the existing spoil bank, any excess soil will have to be removed from the footprint. Likewise, any engineered levee that requires more soil than is present on site will require soil from some borrow area. Since transporting soil is a costly process, any levee plan that minimizes spoil or [sic] borrow is efficient."

It should be noted that for most locations along the levee crest, the surveyed as-built levee crest heights are higher and vary from the HEC-RAS modeled levee crest heights from 0-feet to 5-feet. This variability in additional levee "freeboard" is due to excess on-site soil and resulting grading for constructability. However, the effective levee height for flood risk purposes meets the requirement of the 1% ACE flood event water surface elevation plus 4-feet of levee height.

The levee includes erosion protection to provide resistance against stormwater flood flow. The erosion protection consists of a 32-inch-thick layer of riprap slope protection with a maximum rock size diameter of 30-inches, which includes bedding material and geotextile that was provided on the riverside slope of the levee. The riprap slope protection is embedded to a depth of 5-feet below the levee toe to resist against erosion and scour. A design change from 30 inches of riprap to 32-inches of riprap thickness for phase 1 and 2 occurred during construction affecting rock size and bed thickness given the lower specific gravity of rock at the quarry.

Flood flow can result from either snowmelt runoff or rainfall runoff. Snowmelt flooding is

controlled, for the most part, by upstream reservoirs. Reservoir releases from Cochiti Dam resulting from snowmelt flooding typically occur as a steady flow in the Rio Grande that can take place over a period of months. Present guidance for the magnitude of these reservoir releases is 7,000 cfs, though it has been higher at times in the relatively recent past since Cochiti was operational in 1973. In May 1984, a flow was measured at the Albuquerque gage on the Rio Grande of 9,500 cfs due to a snowpack runoff and in April of 1985 the flow was 9,370 cfs at the same location. The steady long-term portion of snowmelt floods has no significant attenuation through the project reach. Cochiti emergency spillway flow can also result from snowmelt floods coming from upstream of the reservoirs in extreme cases. Spillway flow occurs in addition to reservoir releases, but unlike reservoir releases the flow is not controlled. Spillway flow can also be of long duration resulting in less significant attenuation.

Rainfall runoff events from the unregulated areas, unlike the regulated flow, results in hydrographs of high peak and short duration (typically 24 hours or less) with flow attenuating as it moves downstream. One factor leading to the high amount of attenuation for the rainfall-runoff events is the relatively low volume of these high peak hydrographs. The flows given in the table below result from rainfall runoff events primarily originating in the Rio Puerco and Rio Salado drainages. The Rio Puerco and Rio Salado tributaries enter the Rio Grande upstream of Socorro.

Table 7 provides various frequency flood flows from San Acacia to Socorro. The Socorro Levee height is designed for a water surface elevation from the 1.0% ACE peak flow shown below (at Socorro) with an additional 4 feet of levee height. Figure 6 and Figure 7 show the river Range Lines referenced in Table 7 from the San Acacia Diversion Dam to Brown Arroyo.

Table 7. With Levee Routed Peak Flows on the Rio Grande from San Acacia to Socorro

USBOR Range Line	Landmark	0.2%-ACE Peak Flow (cfs)	0.5%-ACE Peak Flow (cfs)	1.0%-ACE Peak Flow (cfs)	10.0%-ACE Peak Flow (cfs)	50%-ACE Peak Flow (cfs)
SA 1206 – SA 1234	From the San Acacia Diversion Dam downstream	43,500	35,300	29,900	15,400	7,380
SA 1235 – SO 1308	Upstream and down-stream of Lemitar, NM	36,500	34,050	28,670	14,635	7,380
SO 1309 – SO 1327	Upstream of the Escondida Bridge to the North Socorro Diversion Channel	34,700	27,000	21,650	11,980	7,380
SO 1328 – SO 1389	Socorro, NM	32,900	26,170	20,440	11,110	7,380

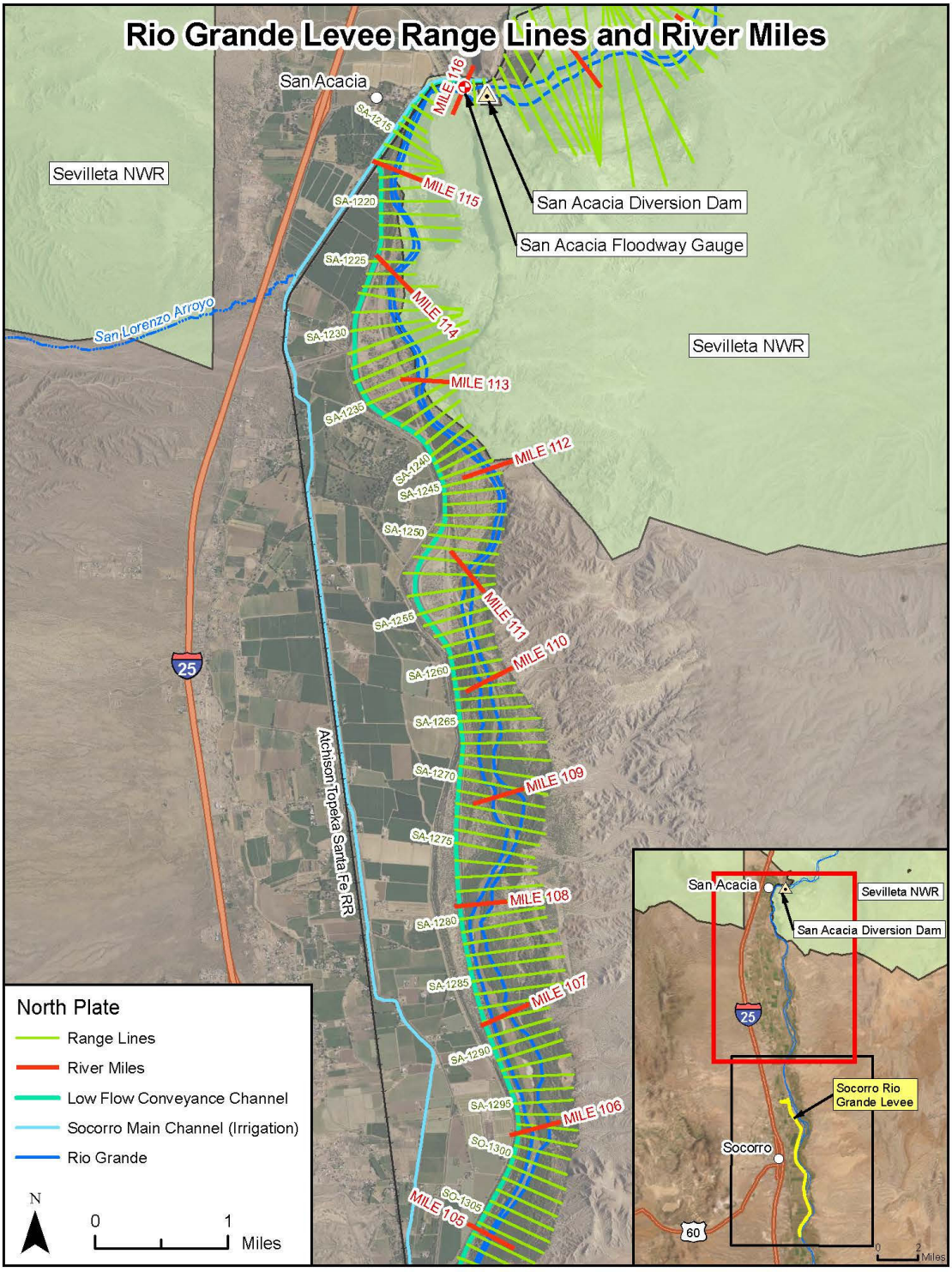

Figure 6. River Miles Range Lines - San Acacia to Mile 105 (in color)

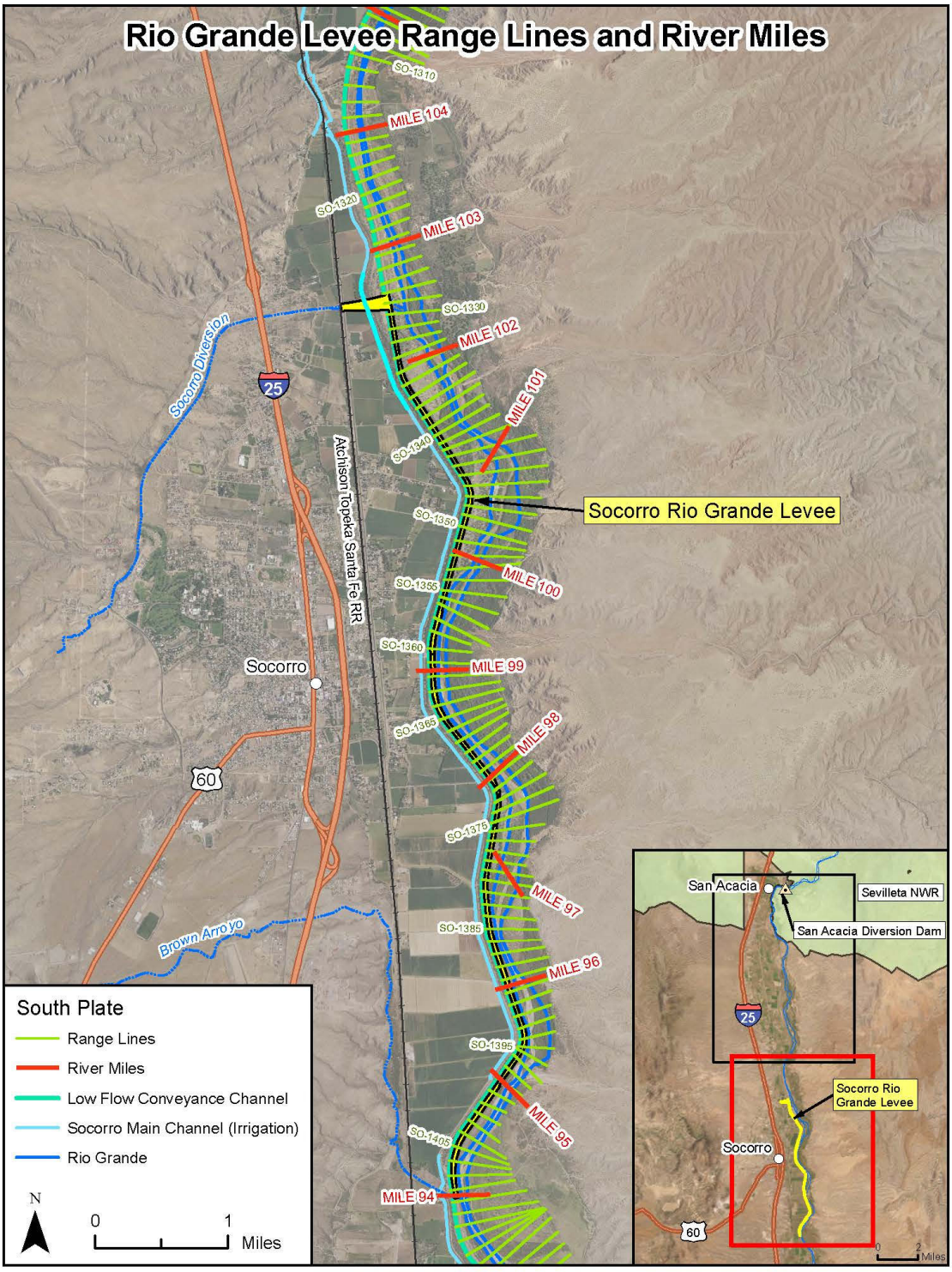

Figure 7. River Miles Range Lines - Socorro Rio Grande Levee (in color)

The new levee structure was constructed within the footprint of the previous spoil bank. No riparian vegetation was removed to accommodate the earthen structure. No habitat mitigation for Rio Grande Silvery Minnow and Southwestern Willow Flycatcher was required as part of construction for Segment 1. Suitable conditions in the adjacent floodway supported native riparian vegetation growth.

6.2 Hydrologic Facilities

Refer to Section 4.12 of this manual.

6.3 Flood Monitoring

Refer to Table 1 in Section 4.12 for the USGS Rio Grande Floodway at San Acacia, NM gage information and location. As read at the USGS gage, flood monitoring is triggered during flood periods, 4,000 cfs during spring runoff (long duration flow) and 10,000 cfs during summer monsoon season (short duration flow). The MRGCD shall check the USGS gage readings at least daily during periods of high water and record the time of observations. A copy of the readings must be transmitted as an enclosure of the semiannual report to the USACE Albuquerque District Engineer in compliance with Section 4.7 of this manual.

It shall be the duty of the MRGCD to maintain a regular observation and monitoring schedule of the project works daily during periods of high water in excess of the gage reading of 4,000 cfs during the spring runoff season from February to mid-June.

It shall be the duty of the MRGCD to maintain a regular observation and monitoring schedule of the project works daily during periods of high water in excess of the gage reading of 10,000 cfs during the summer monsoon season from mid-June through October.

The flowrate at the gage should be checked during periods of high flow to trigger levee patrols to inspect and note any problem areas so corrective action can be taken in a timely manner.

6.4 Reporting

In the event performance issues are observed during any given flood period, a record shall be made which documents the locations, size, and type of performance issues. Photos, GPS positions, descriptions of the issues, and measures taken to remedy the issues should be included in the document. A copy of the record should be sent to the USACE Albuquerque District Engineer following the flood period and be included as part of the semiannual report described in Section 4.7.

6.5 Warning Time

The USGS stream gage at San Acacia, located approximately 12 river miles upstream from the SADD (see Figure 6), will serve as the primary warning location for rainfall storm floods downstream of Cochiti Reservoir exceeding project capacity. Travel times from this gage to communities near and within the project reach are listed below in Table 8. Regulated flow releases can be planned from Cochiti Reservoir and will allow for much greater warning time.

Table 8. Rainfall Flood Flow Travel Time

Location	Travel time (hours)
San Acacia	Little to no travel time
Escondida	9
Socorro	10
Louis Lopez	13
San Antonio	19
Bosque del Apache	22

7 PROJECT COOPERATION AGREEMENT

USACE, MRGCD and New Mexico Interstate Stream Commission entered into a project cooperation agreement (PCA) for this project on 11 August 2014, as required by Public Law (PL) 99-662. A copy of the duly executed PCA is included in Appendix C of this manual.

8 OPERATIONS, INSPECTION, AND MAINTENACE

8.1 Engineered Levee

A. Levee Owner's Roles and Responsibility

A levee owner is a vital participant in levee-related risk management. A levee owner has firsthand knowledge of the levee structure, its construction and maintenance history, prior performance history, a detailed understanding of cultural and historic sites, vulnerable populations, and evacuation effectiveness. Additionally, levee owners can take information from a levee inspection or risk assessment and prioritize actions to implement risk management activities and decisions. For these reasons, levee owners must be partners in USACE Levee Safety Program activities. See USACE Levee Safety EC, or current program guidance. As part of the EC, USACE districts are to develop and maintain a ten-year outlook of anticipated activities, to include inspections and risk assessments in conjunction with the levee owner for scheduling and planning purposes, as well as develop the process for coordination concerning permit requests on or around the levee, such as Section 408 permissions.

MRGCD is responsible for: ensuring the levee is maintained properly and inspected routinely; performing response and recovery efforts; and ensuring levee condition information is shared with USACE. The MRGCD is also responsible for coordination with other state, federal, and local municipalities with overlapping interest such as the USBOR (river maintenance) and the City of Socorro (Socorro Stormwater Diversion Outfall).

While USACE does not perform routine levee maintenance, USACE staff are available to advise on routine maintenance best practices. The sponsor may contact USACE Albuquerque District for more information on routine maintenance best practices.

MRGCD shall coordinate all operation, inspection and maintenance activities with the USBOR as their responsibilities include Rio Grande channel maintenance.

B. MRGCD Inspection and Maintenance

In accordance with the Code of Federal Regulations, Paragraph 33 CFR 208.10(b) (Appendix B), inspections shall be made by the MRGCD at the times or occurrences specified below:

- During the month of February, which is prior to the beginning of the flood season.
- Immediately following each major high water period.
- In the absence of high water, at periods not exceeding 90 days.
- At intermediate times, as necessary

The MRGCD is best positioned to anticipate and find problems associated with the levee, before the problems are exacerbated, and is required to perform independent levee inspections in addition to the inspections conducted in collaboration with USACE. These inspections may happen on, as a minimum, on an annual interval as part of routine maintenance or may occur as needed. The MRGCD can use its own inspection procedures or the USACE inspection procedures and the Levee Inspection System (LIS) may be used instead. The MRGCD should

coordinate levee inspections and associated maintenance with the City of Socorro related to the outfall of the existing Socorro Stormwater Diversion Channel. Additional inspections and monitoring may be required during high flow events in the Rio Grande. After routine inspections, the MRGCD must provide USACE with their inspection information for updating the information in the National Levee Database (NLD), including flood damage assessments, to be ready to use for the next USACE inspection and the subsequent risk assessment.

The MRGCD shall provide at all times such maintenance as may be required to ensure serviceability of the levee at the time of high-water periods. Measures shall be taken to control burrowing animal populations. Provide for clearing of brush, trees, and other wild growth from the levee crown and slopes, as well as areas within 15-feet of the toe on either side of the levee embankment, follow the requirements in USACE Engineer Pamphlet (EP) 1110-2-18 (Appendix I). Periodic inspections shall be made by the MRGCD to ensure that the above maintenance measures are being effectively carried out and further to be certain that applicable portions of the 33 CFR 208.10 (Appendix B) are considered as part of the inspection:

- No unusual settlement, sloughing, or material loss of grade or levee cross section has taken place;
- No caving has occurred on either the land side or the river side of the levee which might affect the stability of the levee section;
- No seepage, saturated areas, or sand boils are occurring;
- No revetment work or riprap has been displaced, washed out, or removed [see also Section G, Repairs to Levee];
- Weeds, grasses, and debris on the levee are mowed during appropriate seasons, where not dangerous or impracticable in order to permit the detection of cracks, holes, burrows, slips, and other damage and to permit the detection of burrowing animals;
- Access roads to and on the levee project are being properly maintained;
- There is no unauthorized grazing or vehicular traffic on the levees;
- Encroachments are not being made on the levee right-of-way which might endanger the structure or hinder its proper and efficient functioning during times of emergency. Examples of encroachments include unauthorized fences, stairs, irrigation pipe penetrations, cutting into the landside levee toe, etc.; and
- Crown of levee is shaped so as to drain readily, and roadway thereon, if any, is well shaped and maintained.

Immediate steps will be taken to correct dangerous conditions disclosed by such inspections. Regular maintenance repair measures shall be accomplished during the appropriate season as scheduled by the MRGCD.

C. Description

The levee embankments described in this manual are located on the west bank of the Rio Grande between the LFCC and the River near Socorro, NM. Socorro NM is located 74 miles

(119 km) south of Albuquerque and 146 miles (235 km) north of Las Cruces along the Rio Grande. The side slope of the embankment is 1V:2.5H with a crest width of the 15 feet.

The constructed features covered under this O&M manual are approximately 7.6 miles of levee beginning at the Socorro Diversion Channel at the northern end to the Brown Arroyo on the southern end.

D. Operation

Applicable portions of the Flood Control Regulations, Paragraph 208.10 (b) (2) are quoted as follows:

> *"(2) **Operation**. During flood periods the levee shall be patrolled continuously to locate possible sand boils or unusual wetness of the landward slope and to be certain that:*
> *i. There are no indications of slides or sloughs developing;*
> *ii. Active channel migration or scouring action is not occurring;*
> *iii. No low reaches of levee exist which may be overtopped;*
> *iv. No other conditions exist which might endanger the structure.*
> *Appropriate advance measures will be taken to ensure the availability of adequate labor and materials to meet all contingencies. Immediate steps will be taken to control any condition which endangers the levee and to repair the damaged section."*

E. USACE Inspections

At a minimum of every five years, USACE will work together with the MRGCD to inspect the levee system. This levee system is composed of two levee segments, each managed by two separate entities: the MRGCD and City of Socorro. Each levee segment will be inspected independently, but the result of each inspection will be shared with between both entities managing the levee system. The MRGCD may request out of cycle levee inspections and the USACE Albuquerque District may conduct out of cycle inspections due to changed conditions. The purpose of these USACE-led inspection is to document the physical condition of the levee system using consistent criteria at a given point in time. The USACE Albuquerque District inspection will use the LIS, and the MRGCD will be provided the opportunity to review the inspection report or summary and provide input before it is finalized. Inspection data will be stored in the NLD. The USACE Albuquerque District will coordinate with the MRGCD to provide them access to their data within the NLD. The MRGCD should consult the USACE Levee Safety EC, or current program guidance for further discussion concerning USACE inspections.

At a minimum of every ten years, the USACE Albuquerque District will perform a risk assessment for the levee system. A risk assessment is a systematic, evidence-based approach for quantifying and describing the nature, likelihood, and magnitude of risk. Risk assessments may also occur out of cycle, similar to USACE inspections. The MRGCD will be a member of the risk assessment team and will be provided the opportunity to review the risk assessment results and provide input. The MRGCD will be given a minimum of 30 days' notice prior to the initiation of a risk assessment. The MRGCD should consult the USACE Levee Safety EC, or current program guidance for further discussion concerning USACE risk assessments.

Levee safety activities (i.e., MRGCD inspections, site visits, USACE inspections, USACE risk

assessments) are intended to raise understanding of what hazards exist, their potential impacts, and how they are being managed. It is also the opportunity to communicate what benefits the levee system is providing. Sharing information about the risk associated with the levee system with the broader community, including governmental bodies, risk managers, and key stakeholders, can help the MRGCD in their efforts, as well as help others take action that can reduce loss of life, personal injuries, and damage from natural disasters. It is the responsibility of the MRGCD to inform the local population of the risks associated with their levee. USACE Albuquerque District is available to support and provide assistance to the MRGCD in order to effectively communicate levee risks.

The USACE District Engineer may update the manual for changed conditions or, if warranted, to correct conditions discovered during inspections. Such updating will be in consultation with the MRGCD.

F. Checklists

A suggested checklist form for reporting inspections of the levee is contained in this manual in Appendix E. The MRGCD may also use the USACE Levee Inspection System to document its inspections. As many copies of the form as are necessary to record all needed maintenance should be used for reporting such inspections. Completed checklists, if used, should be provided to USACE Albuquerque District as part of the routine maintenance reporting.

G. Special Instructions

Compliance with the provisions prescribed in 33 CFR 208.10 (Appendix B) and listed in section 8.1.B, MRGCD Inspection and Maintenance, and with the Special Instructions listed below, is essential for the efficient maintenance of the levee system covered by this manual and for the successful operation of the entire project.

Any OMRR&R activity must comply with all mitigation measures and/or best management practices which are detailed in Section 8.2 Environmental Protection.

Waters of the United States

The Rio Grande Floodway is one of the “waters of the United States” under the Clean Water Act as defined by Environmental Protection Agency and USACE (see most recent Federal Register Final Rule). Waters of the United States are jurisdictional waters subject to section 404 of the Clean Water Act and must comply with all regional conditions as defined by the USACE Albuquerque Regulatory Division. In addition, all maintenance activities should ensure compliance with Section 401 of the Clean Water Act and all other State and Tribal water quality standards as appropriate.

National Pollutant Discharge Elimination Systems (NPDES)

Construction General Permit (CGP)

An NPDES CGP should be required if construction activities will disturb one or more acres of land, or will disturb less than one acre of land but are part of a common plan of development or sale that will ultimately disturb one or more acres of land, or have been designed by the U.S.

Environmental Protection Agency (USEPA) as needing permit coverage under 40 CFR 122.26(a)(1)(v) or 40 CFR 122.26(b)(15)(ii). A site-specific Storm Water Pollution Prevention Plan (SWPPP) will be developed in accordance with Section 7 of the CGP prior to submitting a Notice of Intent (NOI) for coverage under the CGP. After which, the NOI for coverage under the CGP will be prepared and submitted using the USEPA's NPDES eReporting Tool (NeT). The NOI will need to be signed. The responsible parties will conduct all inspections, maintenance, and correction actions.

Pesticide General Permit (PGP)

The NPDES PGP regulates point source discharges from the application of pesticides to Waters of the United States. The USEPA's PGP covers discharges in areas where the United States Environmental Protection Agency (EPA) is the NPDES permitting authority, which include four states (Idaho, Massachusetts, New Hampshire, and New Mexico), Washington, D.C., all U.S. territories except the Virgin Islands, most Indian Country, and federal facilities in four additional states (Colorado, Delaware, Vermont, and Washington). The provisions of the PGP are designed to improve protection of our nation's water quality by minimizing discharges of pesticides to waters of the United States. EPA's final permit covers discharges of biological pesticides, and chemical pesticides that leave a residue, from mosquito and other flying insect pest control, weed and algae control, animal pest control, and forest canopy pest control.

The PGP does not cover, nor is permit coverage required for, pesticide applications that do not result in a point source discharge to waters of the United States, such as terrestrial applications for the purpose of controlling pests on agricultural crops, forest floors, or range lands. Also, agricultural runoff and irrigation return flows continue to be exempt from permitting, as provided under the CWA. If coverage is required, use of the eNOI system to submit an NOI, Annual Report, or Notice of Termination (NOT) for pesticide discharges under EPA's 2021 PGP will be required.

Encroachments and Modifications

The MRGCD shall submit any modification or alteration plan to the USACE Albuquerque District Engineer for review. Section 408 permissions will follow the guidance provided in EC 1165-2-220 (Appendix J), or subsequent updates to the guidance. No encroachment or trespass that will adversely affect the efficient operation and maintenance of the structures shall be permitted upon the project right-of-way. In addition, no modification shall be passed over, under, or through the structures, nor shall any excavation or construction be permitted within the limits of the project right-of-way, nor shall any change or modification be made in any feature of the project structures without prior determination by the USACE Albuquerque District Engineer, or an authorized representative, that such modification, excavation, construction, or alteration will not adversely affect the functioning of the project structures. Such improvements or alterations, as may be found to be desirable and permissible under the above determination, shall be constructed in accordance with standard engineering practice. Advice regarding the effect of proposed modifications or alterations on the functioning of the project and information concerning methods of construction acceptable under standard engineering practice shall be obtained from the District Engineer or, if otherwise obtained, shall

be submitted for approval prior to construction of such work. As-built drawings, prints, specifications and other pertinent documents showing such modifications or alterations as constructed along with a formal request for review to the District Engineer after completion of the work.

Repairs to Levee

The most suitable method will be to bring the levee back to line and grade by a fill made in not to exceed 6-inch loose lift layers of earth free from brush, roots, sod, or other unsuitable matter. The fill should be placed in the same manner as the original construction, of suitable material meeting the requirements for embankment fill set in the specifications. Fill must be compacted according to approved construction practices to meet the specifications.

Soil-Bentonite Slurry Trench

If damage to the soil-bentonite slurry trench occurs, then the levee should be repaired. Consult with the District Engineer prior to making repairs to the slurry trench.

Revetment Work

Due the fact that portions of these levees have been constructed with stone protections work consisting of quarry stone, as well as with Articulating Concrete Blocks (ACB).

- Where scour, wash, settlement, or failure of a portion of the originally provided stone protection has been noted, or where inspection indicates that such damage may result during the next flood or high-water period, the scour or wash shall be filled with earth free from brush, trees, sod, or other unsuitable material and additional stone shall be placed upon the earth fill to bring the stone protection to its original section. In case of emergency and when stone is not available, sandbags or bags filled with gravel may be used for temporary repair measures.
- When permanent repair of the stone protection is made, the stone used shall, as far as possible, be similar to the kind and gradation as originally used, and shall be placed to the thickness as shown on the drawings of Appendix A. Where bedding was originally placed or where it may be required, repair of stone protection will include the placement of a properly graded eight inch bedding layer under the stone protection similar to kind and gradation used during construction.
- In the event an inspection reveals that, due to scour, settlement, or other causes, stone protection on the levee or bank is required beyond the limits of the original construction or in reaches of the levee or bank not originally provided with such protection, local interests will provide addition sloping of the bank and placement of stone protection as needed to protect completed work. The work shall be done in a manner acceptable under standard engineering practice and such that it does not negatively impact the overall performance of the levee when compared to a pre-damaged condition, consult with the District Engineer prior to repair if not an emergency repair.

Depredations of Burrowing Animals

Dens and runways formed within the levee by burrowing animals are frequently the causes of levee failures during flood stages. Burrowing animals such as muskrats, ground hogs, ground squirrels, moles, and gophers found in the levee should be prevented. If dens and runways are discovered, they should be either grouted, or opened and thoroughly compacted as they are backfilled. Levees kept properly cleared are not seriously menaced by burrowing animals as they prefer areas where a protective cover, such as high grass, weeds, and brush, is found; as such, mowing is a recommended effective means of reducing burrowing animal habitat on the levee.

Vegetation Management

Routine maintenance at the project includes clearing unwanted vegetation including, but not limited to, brush, shrubs, saplings, and trees from the levees, drainage ditch, access roads, and all other appurtenant structures at regular intervals. The vegetation free zone (VFZ) extents 15 feet from the toe of the levee on both the landside and river side of the levee.

Unwanted vegetation in the vegetation management zone (VMZ) can be controlled by mowing, manual removal, or applying herbicide sprays where permitted. Herbicides should be applied in accordance with all applicable Federal, State, and local laws and regulations. Spot application of approved low-drift herbicide sprays following United States Fish and Wildlife Service (USFWS) guidance to prevent colonization by invasive weed species does not require additional consultation. Other herbicide use in the VMZ was not evaluated for levee maintenance and may require additional environmental compliance. Consult with EPA and USFWS for herbicide application that does not conform to the USFWS Reasonable and Prudent Measures (RPM) 3.4.

Trees that reach ½ inch in diameter or greater and are located within the VFZ must be cut down, the root ball removed, and the void backfilled with similar embankment materials placed in 4-inch lifts, moisture conditioned and compacted with a mechanical tamper to match the surrounding grade. Similar repair techniques should be used for any vegetation removal that causes damage to the embankment. Haul off cleared vegetation away from the project area so that it does not impact project function. Vegetation free zones and vegetation management are in accordance with Reference EP 1110-2-18 (Appendix I), Guidelines for Landscape Planting and Vegetation Management at Levees, Floodwalls, Embankment Dams, and Appurtenant Structures.

Ruts and Depressions

Ruts and other depressions often develop along levees or access roads because of unauthorized pedestrian or vehicular traffic, settlement, or because of a crown slope that does not effectively shed rainwater. Sometimes the levee material over a culvert can settle, leaving a trench across the crown of a levee. Ruts and depressions are a problem because they allow water to pond on the levee crest or access road. If left uncorrected, the ponded water will seep into the levee's interior or into a roadway embankment, saturating the foundation material, and making the levee more susceptible to failure during a flood.

The levee and access road should be inspected for ruts, potholes, and areas of standing water

after it rains. Ruts and depression shall be repaired as part of the MRGCD's routine maintenance using suitable materials and placement method from the original construction of the levee.

Access Roads

Access roads to the levee and on the levee shall be maintained so that they will be accessible at all times for trucks used to transport equipment and supplies for maintenance and flood fighting.

8.2 Environmental Protection

Below are excerpts from the 2013 USFWS Biological Opinion relevant to the operations and maintenance of the levee system and referenced in Appendix H. Note that references have been removed from the excerpts here and can be found in Appendix H.

Conservation and Mitigation Measures

This O&M manual was written in coordination with the USFWS's New Mexico Ecological Service Field Office (NMESFO), prior to turning the project over to the MRGCD to address Biological Opinion requirements. MRGCD should support to the extent possible endangered species monitoring (avian protocol surveys) in the project area; implement protective measures for endangered species and their habitats during its O&M activities; coordinate with Service's NMESFO regarding any emergency repair work; and provide annual reports to the Service's NMESFO on its O&M activities.

The Southwestern Willow Flycatcher (flycatcher) and Yellow-Billed Cuckoo (cuckoo) are federally listed species under the Endangered Species Act. Critical habitat for flycatcher and cuckoo exists near parts of the Socorro Rio Grande Levee (as delineated in Appendix B).

The MRGCD should use the following best management practices (BMPs) and construction avoidance periods to minimize impacts to flycatchers and cuckoos. To the maximum extent practicable, make every effort to avoid maintenance in areas near occupied flycatcher or cuckoo habitat during the period from 15 May through 30 August. The MRGCD may rely on surveys conducted by other agencies or contract surveys for specific areas prior to implementing any actions. To the extent practicable, avoid mowing or other potential disturbing maintenance activities between 15 May and 30 August. Herbicide spraying activities will be applied according to the manufacturer's label instructions and in accordance with all applicable federal, state, and local laws and regulations.

Construction may occur throughout the calendar year; however, no construction would be performed within 0.25 mile of occupied flycatcher territories during the breeding season; that is, from the date of the second protocol survey of the season through 15 August. Construction traffic may continue year-round along the LFCC maintenance road. If surveys detect the presence of breeding flycatchers (15 May through 15 August) or cuckoos (15 June through 30 August), no construction would be performed within 0.25 miles of an occupied nest.

Construction equipment traffic may continue along the levee alignment and LFCC adjacent to or through a designated cuckoo territory. The spoil bank or engineered levee would serve as a buffer between this traffic and cuckoos within the floodway. If traffic or other proposed action activities do occur within the 0.25-mile radius of a breeding territory, then those territories/nests will be monitored according to standard protocols to determine continued occupancy.

Vegetation removal and clearing-and-grubbing activities would be performed between 30 August and 15 April (outside the breeding season for flycatchers and cuckoos). If needed, vegetation removal during the breeding season (April-August) would only be performed after a survey by a biologist confirms that disturbance to nesting migratory bird species would be avoided.

During maintenance activities, all fueling and maintenance of vehicles and other equipment, stockpiling of construction materials, and storage of portable equipment, vehicles and supplies, including chemicals, shall be restricted to designated staging areas, which shall be located westward of the LFCC and at least 100-feet from surface water. The agency responsible for operations and maintenance shall ensure that all reasonable measures are taken to avoid contamination of habitat during such operations. All workers shall be informed of the importance of preventing spills and appropriate measures to take should a spill occur. Any spills of hazardous materials shall be cleaned up immediately. Such spills shall be reported in operation and maintenance reports.

During operations and maintenance of the restoration areas, herbicide spraying activities will be applied according to the manufacturer's label instructions and in accordance with all applicable federal, state, and local laws and regulations.

See Appendix H for a list of additional references.

9 Emergency Operations

9.1 Emergency Procedures

Emergency surveillance, communication, and chain of responsibility for the Socorro Rio Grande Levee and associated infrastructure are to be under existing protocols of the MRGCD, under the supervision of the Chief Engineer. MRGCD must develop an Emergency Operations Plan that covers preparations for and responses to project emergency conditions. MRGCD will provide the USACE Albuquerque District Engineer an outline of emergency operation records to be maintained and available for inspection. Plans should cover but not be limited to such items as:

- Chain of responsibility,
- Emergency communications network including redundancies (internal and external),
- Local emergency response assistance such as fire, police, medical, and Red Cross.
- State and Federal emergency response agencies,
- Flood fight or other plans that may have been part of design documentation.

9.2 Emergency Operations

An earthen levee is in danger whenever there is water against it. This danger increases with the height of the water, the duration of the flood stage, and the intensity of either the current or wave action. A well-constructed levee of correct cross section should, if properly maintained and not overtopped, hold throughout any major flood. Issues which could lead to failures, such as sand boils, sinking levees, slides, or sloughing can be addressed if prompt action is taken and proper methods of treatment are used.

USACE may provide emergency assistance under PL 84-99 Flood Control and Coastal Emergencies to save lives and protect improved properties (e.g., public facilities/services and residential/commercial developments) during or following a flood event. USACE emergency assistance will be undertaken only to supplement state, tribe, county, and local efforts. State, tribal, and local interests must commit all available resources, e.g., work force, supplies, equipment, funds, National Guard assets, etc., as a general condition of USACE assistance. USACE authorities consist of either technical assistance or direct assistance during flood response operations. Technical assistance consists of providing review and recommendations in support of state and local effort and helping determine feasible solutions to uncommon situations. The following are examples of technical assistance:

- Guidance in flood fighting techniques,
- Inspection of an existing flood risk management structure (FRMS),
- Providing hydraulic and hydrologic analysis of the area, and
- Geotechnical evaluations of existing (FRMS).

Direct assistance under PL 84-99 may include furnishing flood-fighting materials, e.g., sandbags, polyethylene sheeting, lumber, pumps, and applications of riprap revetment to stabilize eroding

levees. As well as contract hiring of equipment and operators for flood fighting operations, construction of emergency flood control projects, removal of log or debris jams that are blocking stream flow and causing flooding of communities, etc. Direct assistance under PL 84-99 is limited to flood related emergencies only.

Advanced measures, when directed by the USACE Albuquerque District Engineer, authorizes advance or "foresight" type measures under PL 84-99 to protect against loss of life and significant damages to urban areas and/or public facilities due to an imminent threat of unusual flooding. Emergency advance measures work must be requested by the governor of the state or tribe and must be temporary in nature, technically feasible, designed to deal effectively with the specific threat, and capable of construction in time to prevent projected damages and must meet a benefit cost ratio greater than 1. Details of local assurances, cooperation of local assurances, and cooperation and participation will be obtained. Local requirements may be waived by the USACE Albuquerque District Engineer in isolated cases. Local entities desiring assistance from USACE for flood fighting will first go to their emergency disaster agency or other state or tribal agencies who are authorized to act for the state or tribal governor in times of natural disaster. The state/tribal governor, or an authorized representative, will request assistance for the applicable program from USACE. Assistance under PL 84-99 cannot be provided directly to individuals or solely to prevent erosion damage.

The MRGCD can request flood emergency preparation assistance and rehabilitation of a flood control project threatened or destroyed by a flood.

Personnel of the USACE, whether military or civilian, are not vested with any civil police authority in the performance of their engineering duties, and they will not attempt to exercise any such authority. The responsibility for protecting flood risk management works against sabotage, acts of depredation, or other unlawful acts vests with the local interests through local and state governmental agencies.

Immediately upon receipt of information that a high water is imminent, the MRGCD, through its Chief Engineer, should form a skeleton organization capable of quick expansion and assign individuals (Division Chiefs) to have charge of definite sections of levees.

As the initial activity, each Division Chief should review each entire section and parts of adjacent sections, making a detailed inspection, particularly with reference to the following matters:

- Section limits: ascertain that the dividing line between sections is plainly determined and, if necessary, marked.
- Condition of new levees and recent repairs.
- Transportation facilities; roads, rail, and water communications.
- Material supply; quantity, location, and condition.
- Communications; locate and check all necessary telephones in each section.

Emergency operations must be coordinated with the USBOR as their responsibilities include Rio

Grande channel maintenance.

9.3 Applicable Methods of Combating Floods

Methods described herein have been developed over many years and incorporate past experience with the various problems that arise during floods. These methods are not intended to restrict the MRGCD or others to a rigid set of rules. Rather, they should be considered general guidelines that have been effective during past floors and, by themselves or with modifications indicated by an ongoing emergency, would probably be effective in the future.

If problems are encountered that are not covered by these suggestions, or if the MRGCD has doubt about a procedure, he or she is expected to coordinate with the USACE Albuquerque District Engineer for further information and advice. In emergency situations where the junction of the Socorro Diversion Channel and the new levee are affected, MRGCD should coordinate activities with the City of Socorro.

It is much better to be over-prepared for a flood than it is to find at the last moment that preparations were incomplete or unsatisfactory. Confidence in experienced individuals and contractors is a valuable asset that should not be carelessly lost through inefficient operation in times of emergency. Suggested methods for emergency flood protection are included in Appendix G – SPA Flood Emergency Handbook. To be prepared in advance for emergency flood situations, MRGCD may also find useful the emergency action plan guidance described in EC 1110-2-6075.

9.4 Preliminary Repair of Damage

After the initial inspection has been completed, each Division Chief should recruit a labor crew and provide it with tools such as shovels, axes, wheelbarrows, etc. In addition, bulldozers, scrapers, trucks, etc., should be located and made ready for use in case of emergency. Immediate action should be taken to perform the following work:

- Fill holes or washes in the levee crown, slopes, and landside berms. Where new construction has been completed during the year, rain washes and deep gullies may have developed. When the levee is new, preparations should be made in advance to combat wave wash along the exposed reaches.
- Repair gaps where road crossings have been worn down and the levee is below grade. In filling the road crossings, it may be necessary to obtain material from landside borrow pits, in which case excavation for the material should be sourced either from borrow pits established for the construction effort or a commercial source. Any filling done in this connection should be tamped in place and, if in an exposed reach subject to wave wash, the new section should be faced with bags of sand.
- Ascertain that all roads to and along the levee are in a good state of repair. The MRGCD should obtain assistance from the appropriate agencies to have all roads put in good working condition.

- Locate necessary tools and materials (sacks, sandbags, brush, lumber, lights, etc.), and distribute and store the same at points where active maintenance is anticipated.
- Check and obtain lists of all team forces, motorboats, motor cars, and truck transportation that can be made available.
- Make thorough arrangements with reliable citizens of the community for the supply, transportation, subsistence, and shelter for the necessary labor.
- Communicate directly with owners of all stock pastured on the levee and direct that all stock be removed from the levee right-of-way. Cut all fences crossing the levee that do not have gates provided.
- Investigate all drainage ditches on the landside of the levee and clear these drains when obstructions exist.

Damage repairs must be coordinated with the USBOR as their responsibilities include Rio Grande channel maintenance.

9.5 Environmental Protection

Refer to Appendix H for the Mitigation and Monitoring Plan relevant to flood fighting activities. Below are excerpts from Appendix H relevant to flood fighting activities. Note that references have been removed from the excerpts here and can be found in Appendix H.

Conservation and Mitigation Measures

1. During flood-fighting activities, a USFWS approved avian biologist will support the flood-fighting efforts. The biologist will identify recent and/or currently occupied flycatcher territories to minimize disturbance to the extent possible without hindering emergency activities. The biologist will provide recommendations to minimize impacts to sensitive species and document any impacts that occurred once flood-fighting activities are complete; they will not direct flood-fighting activities, only provide guidance and documentation. However, recommendations from the USFWS approved biologist should be implemented to the extent possible if they can be achieved safely without adversely impacting flood-fighting activities. The biologist will coordinate with the USFWS NMESFO regarding any emergency repair work.

2. The biologist will coordinate with and report to the USFWS NMESFO on its O&M activities. After flood-fighting activities take place, a report prepared by the monitoring biologist(s) shall be forwarded to the NMESFO within 60 calendar days of the completion of the project. This report shall detail: (1) dates that flood-fighting activities occurred; (2) known project effects on federally listed species, if any; (3) occurrences of incidental take of federally listed species, if any; and (4) other pertinent information.

10 Surveillance

The MRGCD shall set forth a surveillance program covering appropriate measurements, observations, and other activities to be performed that will ensure project benefits are being obtained. The project is located in the Socorro reach identified in Table 7 (SO 1328 – SO 1389), from the Socorro diversion to the Browns Arroyo confluence with the Rio Grande. The surveillance program shall include appropriate coordination with the City of Socorro related to the Socorro Stormwater Diversion Channel outfall. An outline of surveillance records to be maintained and available for inspection is to be provided to USACE Albuquerque District Engineer upon request. This program should cover, but is not limited to, such activities as:

- Routine stage and discharge records to show continued satisfactory performance or provide timely notice that attention is required.
- Hydrographic and land surveys as required to indicate when periodic sediment removal, correction of bank erosion, correction of levee settlement, etc., are to be performed. Specific items of work listed above must either be performed by or coordinated with the USBOR as their responsibilities include Rio Grande channel maintenance.
- Special surveillance as may be required during periods of high flow from either upstream regulated releases or active monsoonal rainfall activity.

The USGS stream gages Rio Puerco near Bernardo (gage 08353000) and Rio Salado near San Acacia (gage 0835400) should be monitored to estimate flows entering the Rio Grande upstream of the project area during monsoon season (typically defined as 15 June to 30 September) each year. Water releases from Cochiti Reservoir should be monitored closely during spring runoff when long duration high flow releases may occur during large snowpack years. Snowpack projections along with projected yearly releases from Cochiti Reservoir will be helpful in planning any required monitoring efforts.

Table 7 in Section 6.1 provides various frequency flood flow from San Acacia to Socorro. The levee is designed to convey the mean 1% ACE peak flow from a short duration rainfall event shown below (20,440 cfs at Socorro) with an additional 4 feet of levee height.

Flood flows in the Middle Rio Grande are of two general types. One type commonly occurs from April through June as a result of snowmelt, which may be augmented by general precipitation. Spring flows are characterized by gradually rising hydrographs, moderate discharge rates, and large runoff volumes. Upstream flow regulation on the Rio Grande substantially limits the potential for spring flooding through the study area. The other type of flow is summer monsoonal flash floods that normally occur from mid-June through the end of September. Summer monsoonal flows are characterized by sharp, high peak flows that recede quickly and generally have smaller runoff volumes than the snowmelt flows. However, the majority of the floods that produce the greatest damage within the study area have been caused by summer storms and subsequent floods contributed by the Rio Puerco and the Rio Salado tributaries which enter the Rio Grande upstream of Socorro.

MRGCD must routinely monitor and record water stage near the project in accessible monitoring locations to be determined along the levee from the SADD to the Browns Arroyo

confluence with the Rio Grande. To this end a relationship may be developed for both non-flood and flood events which compare the water stage at accessible monitoring locations within the project reach to stage and flow recorded at operational USGS gages located in or near the project area. This will aid to inform the MRGCD when taking gage readings as to the approximate stage of flood waters on the levee and when to deploy levee patrols for flood monitoring. Possibilities include USGS gage 08355050 (Rio Grande at Bridge Near Escondida, NM), located approximately 1.5 miles upstream of the project, and USGS gage 08355490 (Rio Grande above US Hwy 380 NR San Antonio, NM), located approximately 5.5 miles downstream of the project. When the flood water stage is high enough to inundate the river side toe of the levee, USGS gage flow rate and flood water stage along the levee from the SADD to the Browns Arroyo confluence with the Rio Grande will be monitored and recorded on an hourly basis through the peak of ascending limbs in the hydrograph (or as the flood stage rises). As the flood hydrograph descends and flows decrease, the monitoring schedule can be reduced. Monitoring and recording should continue until the time at which the waters have receded to a point where the levee and all structural components of the levee are accessible. An inspection will then be completed in accordance with Section 8 of this manual.

Levee survey reference monuments are used to record vertical and horizontal changes in key locations. Survey of these points should be conducted in conjunction with USACE sponsored periodic inspections and following unusual or seismic events (see Appendix A for locations).

Some concerns that should be monitored typically relate to seepage either under or through levees and may result in sand boils being observed. This can result in sloughing to the low flow conveyance channel bank closest to the levee. This is of concern as this area could be considered an extension of the landside toe of the levee. If left unchecked for an extended period this seepage and sloughing could lead to levee failure resulting in a levee breach. The seepage and sloughing can grow progressively worse over time as high flow conditions continue. In extreme cases this sloughing may extend into or close enough to the landside levee face that the MRGCD is forced to take remedial action to repair the affected area and armor the bank of the low flow conveyance channel next to the levee. Any work in the low flow conveyance channel must be coordinated with the USBOR since they are the owners and have the responsibility for operation and maintenance.

Damages to low flow conveyance channel embankment can start before flows exceed the active river channel capacity in many locations. Geotechnical issues start as seepage decreases soil strength parameters, causing tension cracks at bank crest, which may lead to sloughing of the bank slope. As river flows increase, causing greater pressure differential, sand boils form within the invert of the conveyance channel, causing greater loss of material that previously constituted the levee. Flows in the low flow conveyance channel carry soil material downstream making measuring the amount of soil material moved difficult for several locations. Ongoing sloughing causes the seepage path to shorten thus setting up the next cycle of sloughing to occur at an accelerating rate.

Migration of the active Rio Grande channel must also be monitored as the channel can move even under low flow conditions and cause erosion to the levee if the overbank buffer becomes too narrow between the river channel and the levee. Jetty jacks were installed in the 1950s and

1960s to mitigate this problem and "train" the river channel to help prevent channel migration. For this reason, care should be taken when considering any jetty jack removal projects that could release the channel and begin the migration process.

Other evidence of distress to be monitored include:

- Sloughs, settlement, or slides in the levee embankments.
- Evidence of piping and/or cloudy water boils in the area of the levee embankments.
- Any increase in seepage quantities through or under the levee embankments.
- Any significant change in pore-water pressure in either embankments or their foundations.
- Any significant change in uplift pressures under concrete structures.
- Unusual vertical or horizontal movement or cracking of embankments.
- Significant cracking of concrete structures.
- Sinkholes or localized subsidence in the foundation of or adjacent to embankments or other pertinent structures critical to the safe operation of the project.
- Significant damage to, or changes in, structures, foundations, groundwater conditions, and adjacent terrain as a result of seismic events.
- Any other indications of distress or potential failure that could inhibit the operation of the project or endanger life and property.

Any work in the Bosque or Rio Grande channel must be coordinated with the USBOR. Section 404 of PL 92-500, Clean Water Act of 1977, requires that a permit be obtained from USACE for the discharge of dredged or fill material in all waters of the United States including adjacent wetlands. These requirements should not delay work necessary to prevent loss of life or property during an actual emergency or flood fight. Normal maintenance of flood control structures is authorized by this law. However, construction of such structures prior to or after a flood will generally require a permit from the USACE.

11 REPAIR, REPLACEMENT, AND REHABILITATION

11.1 Characterization of Repair, Replacement, and Rehabilitation

Repair is considered to entail those activities of a routine nature that maintain the project in a well-kept condition. Replacement covers those activities taken when a worn-out element or portion thereof is replaced. Rehabilitation refers to a set of activities as necessary to bring a deteriorated project back to its original condition. Repair, Rehabilitation, and Replacement (RR&R) actions are to conform to the project as-built plans and specifications unless other arrangements are made with the district engineer. These activities are the responsibility of the MRGCD.

11.2 Recommended Procedures

All RR&R activities required by this manual must be made in conformance with, at a minimum, the specifications for the original project construction and in accordance with the existing environmental documentation.

11.3 Timing and Urgency

The MRGCD should consider the timing and urgency of the specific repairs. Depending upon the nature and severity of the repair it may be advisable to proceed with the RR&R activities prior to the next flood season or proceed cautiously during a current flood season. Other methods or procedures may need to be deployed by the MRGCD if the repairs are required during an immediate flood season.

12 NOTIFICATION OF DISTRESS

12.1 Reporting

Evidence of distress at USACE projects will be immediately reported to the District Engineer and the City of Socorro. The USACE will confirm the situation and determine if an engineering evaluation of the condition is required and if remedial measures will be required, and will immediately report the conditions, through command channels, to the Levee Safety Officer.

RCO (Readiness and Contingency Operations) will also be notified of any project feature that has been damaged and is need of repair. RCO will put a team together to assess the damage and start the process of preparing the Project Information Report (PIR) once the MRGCD has sent a letter to the District Commander requesting assistance.

12.2 Distress Signals

- Typical evidence of distress to be reported is as follows:
- Sloughs, settlement, or slides in the levee or training dike embankments.
- Evidence of piping, muddy water boils in the areas of a structure such as levee or training dike embankments.
- Any increase in seepage quantities through or under the levee or training dike embankments.
- Any significant change in pore-water pressure in either embankments or their foundations.
- Any significant change in uplift pressures under concrete structures.
- Unusual vertical or horizontal movement or cracking of embankments.
- Significant cracking of concrete structures.
- Sinkholes or localized subsidence in the foundation of or adjacent to embankments or other pertinent structures critical to the safe operation of the project.
- Significant damage to, or changes in, structures, foundations, groundwater conditions, and adjacent terrain as a result of seismic events.
- Any other indications of distress or potential failure that could inhibit the operation of the project or endanger life and property.

12.3 Inspections

Special inspections to evaluate damages or changes should be made immediately following any events outlined above.

Appendix A – As-Built Drawings and Specifications

(items placed on CD)

Appendix B - Local Flood Protection Works, 33 CFR 208.10

(items placed on CD)

Appendix C – Project Cooperative Agreement

(items placed on CD)

Appendix D – The MRGCD's Guide to the USACE Levee Safety Program

(items placed on CD)

Appendix E - Levee Inspection Report Check List

(items placed on CD)

Appendix F – Transfer Letter

(items placed on CD)

Appendix G – SPA Flood Emergency Handbook

(items placed on CD)

Appendix H – Mitigation and Monitoring Plan

(items placed on CD)

Appendix I – EP 1110-2-18

(items placed on CD)

Appendix J – EC 1165-2-220

(items placed on CD)

Appendix K – Geotechnical Completion and Materials Report – San Acacia Levee Construction

(items placed on CD)

Memorandum

To: MRGCD Chair Russo Baca and Board of Directors

Through: Jason M. Casuga, Chief Engineer/CEO

From: Human Resources

Date: December 11, 2023

Re: Introduction of New Hires and Job/Title Changes

General Office

CALIJAH	KAYE	RIGHT-OF-WAY SPECIALIST	11/27/2023 PROMOTION
ANTHONY	CASTILLO	WAREHOUSE SPECIALIST	12/11/2023 PROMOTION
KIMBERLY	WARD	RIGHT-OF-WAY SPECIALIST	01/08/2024
MARIO	JOJOLA	IRRIGATION SYSTEMS OPERATOR	01/08/2024

MIDDLE RIO GRANDE CONSERVANCY DISTRICT
GENERAL OFFICE
2024 HOLIDAY SCHEDULE
(For General Public)

HOLIDAY	APPROVED DATE
New Year's Day	Monday, January 1
Martin Luther King, Jr.'s Birthday	Monday, January 15
Memorial Day	Monday, May 27
Independence Day	Thursday, July 4
Labor Day	Monday, September 2
Veteran's Day (observed)	Monday, November 11
Thanksgiving Day	Thursday, November 28
Day after Thanksgiving Day	Friday, November 29
Christmas Day	Wednesday, December 25
Day After Christmas Day	Thursday, December 26

Memorandum

To: **MRGCD Chair Russo Baca and Board of Directors**
Jason Casuga, CEO/CE
Pam Fanelli, CFO

From: **Richard DeLoia, Chief Procurement Officer** *RD*
Alicia Lopez, Engineering & Mapping Manager *AL*

Date: **December 4, 2023**

Re: **Storey Wasteway OCS Project**

MRGCD staff is requesting approval of the Storey Wasteway OCS Project Bid dated December 1, 2023, This procurement was done by Wilson & Company Inc.

Wilson & Co. Inc. has recommended through the request for bid process and bid tabulation, the lowest responsible bidder Compass Engineering to be awarded the contract in the amount of $472,226.13 including NMGRT. NFWF funding will pay $345,725.17 including NMGRT and MRGCD funded portion will be $126,500.97 including NMGRT. Please refer to the attached Storey Recommendation of Award Letter from Wilson & Co. Inc and the summary table below.

Table 1: NFWF Funded		
Bidder:	**Bid Without NMGRT**	**Bid Plus NMGRT (6.625%)**
Compass Engineering	$324,244.00	$345,725.17
Vital Consulting	$500,236.00	$533,376.64
AUI	$470,160.00	$501,308.10
Engineer's Estimate	$450,788.41	$480,653.14

Table 2: MRGCD Funded		
Bidder:	**Bid Without NMGRT**	**Bid Plus NMGRT (6.625%)**
Compass Engineering	$118,641.00	$126,500.97
Vital Consulting	$179,359.00	$191,241.53
AUI	$160,672.00	$171,316.52
Engineer's Estimate	$139,980.05	$149,253.73

Table 3: Combined Bid Items 1-21		
Bidder:	**Bid Without NMGRT**	**Bid Plus NMGRT (6.625%)**
Compass Engineering	**$442,885.00**	**$472,226.13**
Vital Consulting	**$679,585.00**	**$724,618.17**
AUI	**$630,832.00**	**$672,624.62**
Engineer's Estimate	**$590,768.46**	**$629,906.87**

WILSON &COMPANY
HIGHER RELATIONSHIPS

4401 Masthead Street NE, Suite 150
Albuquerque, NM 87109
505 348 4000 (phone)
505 348 4055 (fax)
wilsonco.com

1st December, 2023

Mr. Jason Casuga, CEO/Chief Engineer
Middle Rio Grande Conservancy District (MRGCD)
1931 2nd Street Southwest
Albuquerque, NM 87102

Dear Mr. Casuga:

Presented herein is Wilson & Company, Inc.'s recommendation for the Award of the Storey Wasteway OCS Project. Bids were opened on December 1st, 2023 at 10:00 a.m. Compass Engineering, Vital Consulting Group, and AUI responded to the Advertisement for Bids. Bid tabulations detailing the unit prices and comparisons are attached.

Overall Evaluation of Bids Received
Wilson & Company reviewed the award based on MRGCD requesting to award the lesser of the NFWF Funded and MRGCD Funded combination. Following the requirements from the Specification and Contract Documents, Compass Engineering and Construction Services is the apparent low responsive bidder, based on our evaluation. There were no errors in any of the bids submitted. The amounts of the bids received summarized below.

Table 1: NFWF Funded		
Bidder:	**Bid Without NMGRT**	**Bid Plus NMGRT (6.625%)**
Compass Engineering	$324,244.00	$345,725.17
Vital Consulting	$500,236.00	$533,376.64
AUI	$470,160.00	$501,308.10
Engineer's Estimate	*$450,788.41*	*$480,653.14*

Table 2: MRGCD Funded		
Bidder:	**Bid Without NMGRT**	**Bid Plus NMGRT (6.625%)**
Compass Engineering	$118,641.00	$126,500.97
Vital Consulting	$179,359.00	$191,241.53
AUI	$160,672.00	$171,316.52
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AUI	$630,832.00	$672,624.62
Engineer's Estimate	*$590,768.46*	*$629,906.87*

Recommendation
Based upon the responsive bids received to the Advertisement for Bids and our analysis of the certified Bid Tabulation, we recommend the award of the Storey Wasteway OCS Project in the total amount of Base Bid **$442,885.00** (excluding NMGRT) to Compass Engineering & Construction Services. Furthermore, their submittal is in compliance with the specifications and contract documents. Compass Engineering is a New Mexico Contractor and has the appropriate license, GA98, GB98, GF98, and MM98; License Number #390516 to perform the work and is in good standing with appropriate forms submitted. We have verified with Compass Engineering that they are confident with their bid and are ready to execute a contract.

If you have any questions, please feel free to contact me at office no. (505)-348-4053 or mobile no. (505)-400-0507.

WILSON & COMPANY

Christopher A. Perea, PE
Associate Vice President

Enclosures:
Bid Tabulation
New Mexico Contractor License Registration
SAM Registration
NMDWS Registration

BID TABULATION

Project: Storey Wasteway OCS
Owner: MRGCD
Engineer: Wilson & Company
Date: 12/1/2023

BASE BID				COMPASS ENGINEERING			VITAL CONSULTING GROUP			AUI			ENGINEER'S ESTIMATE	
ITEM NO.	ITEM DESCRIPTION	UNIT	QTY	UNIT PRICE	UNIT AMOUNT	AMOUNT	UNIT PRICE	UNIT AMOUNT	AMOUNT	UNIT PRICE	UNIT AMOUNT	AMOUNT	UNIT PRICE	AMOUNT
NFWF FUNDED				NFWF FUNDED			NFWF FUNDED			NFWF FUNDED			NFWF FUNDED	
1	MOBILIZATION/DEMOBILIZATION	LS	1.00	$ 22,740.00	$ 22,740.00	$ 22,740.00	25,000.00	$ 25,000.00	$ 25,000.00	$ 56,000.00	$ 56,000.00	$56,000.00	$ 72,000.00	$72,000.00
2	REMOVAL AND DISPOSAL	LS	1.00	$ 10,950.00	$ 10,950.00	$ 10,950.00	12,650.00	$ 12,650.00	$ 12,650.00	$ 77,955.00	$ 77,955.00	$77,955.00	$ 30,000.00	$30,000.00
3	EXCAVATION AND BACKFILL	CY	1,526.00	$ 14.00	$ 21,364.00	$ 21,364.00	41.00	$ 62,566.00	$ 62,566.00	$ 31.00	$ 47,306.00	$47,306.00	$ 45.50	$69,454.21
4	DEWATERING	AL	1.00	$ 25,000.00	$ 25,000.00	$ 25,000.00	25,000.00	$ 25,000.00	$ 25,000.00	$ 25,000.00	$ 25,000.00	$25,000.00	$ 25,000.00	$25,000.00
5	CONCRETE PAVEMENT - 6" THICKNESS	SY	90.00	$ 255.00	$ 22,950.00	$ 22,950.00	272.00	$ 24,480.00	$ 24,480.00	$ 265.00	$ 23,850.00	$23,850.00	$ 296.40	$26,788.30
6	HAND PLACED RIPRAP 6"-9"	CY	202.00	$ 220.00	$ 44,440.00	$ 44,440.00	245.00	$ 49,490.00	$ 49,490.00	$ 251.00	$ 50,702.00	$50,702.00	$ 342.00	$68,985.77
7	54" CULVERT PIPE	LF	120.00	$ 330.00	$ 39,600.00	$ 39,600.00	450.00	$ 54,000.00	$ 54,000.00	$ 397.00	$ 47,640.00	$47,640.00	$ 321.60	$38,592.00
8	84" CULVERT PIPE	LF	75.00	$ 790.00	$ 59,250.00	$ 59,250.00	1,120.00	$ 84,000.00	$ 84,000.00	$ 845.00	$ 63,375.00	$63,375.00	$ 518.40	$38,968.13
9	TRAFFIC CONTROL	LS	1.00	$ 850.00	$ 850.00	$ 850.00	47,000.00	$ 47,000.00	$ 47,000.00	$ 11,882.00	$ 11,882.00	$11,882.00	$ 6,000.00	$6,000.00
10	WATER GATE INSTALLATION (LANGEMANN)	EA	2.00	$ 4,800.00	$ 9,600.00	$ 9,600.00	2,275.00	$ 4,550.00	$ 4,550.00	$ 9,196.00	$ 18,392.00	$18,392.00	$ 12,000.00	$24,000.00
11	CATWALK FABRICATION & INSTALLATION	EA	2.00	$ 17,500.00	$ 35,000.00	$ 35,000.00	24,000.00	$ 48,000.00	$ 48,000.00	$ 14,323.00	$ 28,646.00	$28,646.00	$ 18,000.00	$36,000.00
12	SURVEY/TESTING	LS	1.00	$ 32,500.00	$ 32,500.00	$ 32,500.00	63,500.00	$ 63,500.00	$ 63,500.00	$ 19,412.00	$ 19,412.00	$19,412.00	$ 15,000.00	$15,000.00
					TOTAL NFWF FUNDED	$ 324,244.00		TOTAL NFWF FUNDED	$ 500,236.00		TOTAL NFWF FUNDED	$ 470,160.00	TOTAL NFWF FUNDED	$ 450,788.41
					TOTAL NFWF FUNDED WITH NMGRT (6.625%)	$ 345,725.17		TOTAL NFWF FUNDED WITH NMGRT (6.625%)	$ 533,376.64		TOTAL NFWF FUNDED WITH NMGRT (6.625%)	$ 501,308.10	TOTAL NFWF FUNDED WITH NMGRT (6.625%)	$ 480,653.14
MRGCD FUNDED				MRGCD FUNDED			MRGCD FUNDED			MRGCD FUNDED			MRGCD FUNDED	
13	EXCAVATION AND BACKFILL	CY	964.00	$ 14.00	$ 13,496.00	$ 13,496.00	41.00	$ 39,524.00	$ 39,524.00	$ 24.00	$ 23,136.00	$23,136.00	$ 45.50	$43,863.04
14	CONCRETE PAVEMENT - 6" THICKNESS	SY	105.00	$ 255.00	$ 26,775.00	$ 26,775.00	272.00	$ 28,560.00	$ 28,560.00	$ 266.00	$ 27,930.00	$27,930.00	$ 296.40	$30,993.56
15	STRUCTURAL CONCRETE	CY	7.00	$ 3,200.00	$ 22,400.00	$ 22,400.00	4,050.00	$ 28,350.00	$ 28,350.00	$ 4,415.00	$ 30,905.00	$30,905.00	$ 1,639.18	$12,280.31
16	30" CULVERT PIPE	LF	75.00	$ 150.00	$ 11,250.00	$ 11,250.00	215.00	$ 16,125.00	$ 16,125.00	$ 278.00	$ 20,850.00	$20,850.00	$ 230.38	$17,308.15
17	CORRUGATED METAL PIPE 30" ELBOW	EA	1.00	$ 2,950.00	$ 2,950.00	$ 2,950.00	5,250.00	$ 5,250.00	$ 5,250.00	$ 3,759.00	$ 3,759.00	$3,759.00	$ 622.80	$622.80
18	36" CULVERT PIPE	LF	105.00	$ 170.00	$ 17,850.00	$ 17,850.00	290.00	$ 30,450.00	$ 30,450.00	$ 308.00	$ 32,340.00	$32,340.00	$ 252.73	$26,594.99
19	CORRUGATED MATAL PIPE 36" ELBOW	EA	2.00	$ 3,560.00	$ 7,120.00	$ 7,120.00	6,000.00	$ 12,000.00	$ 12,000.00	$ 4,089.00	$ 8,178.00	$8,178.00	$ 1,140.00	$2,280.00
20	FRESNO TURNOUT W/ FLAT BACK MOUNT (30") W/ CONNECTIONS	EA	1.00	$ 8,200.00	$ 8,200.00	$ 8,200.00	9,100.00	$ 9,100.00	$ 9,100.00	$ 6,457.00	$ 6,457.00	$6,457.00	$ 2,764.80	$2,764.80
21	FRESNO TURNOUT W/ FLAT BACK MOUNT (36") W/ CONNECTIONS	EA	1.00	$ 8,600.00	$ 8,600.00	$ 8,600.00	10,000.00	$ 10,000.00	$ 10,000.00	$ 7,117.00	$ 7,117.00	$7,117.00	$ 3,272.40	$3,272.40
					TOTAL MRGCD FUNDED	$ 118,641.00		TOTAL MRGCD FUNDED	$ 179,359.00		TOTAL MRGCD FUNDED	$160,672.00	TOTAL MRGCD FUNDED	$139,980.05
					TOTAL MRGCD FUNDED WITH NMGRT (6.625%)	$ 126,500.97		TOTAL MRGCD FUNDED WITH NMGRT (6.625%)	$ 191,241.53		TOTAL MRGCD FUNDED WITH NMGRT (6.625%)	$171,316.52	TOTAL MRGCD FUNDED WITH NMGRT (6.625%)	$149,253.73
					SUBTOTAL ABOVE BID ITEMS 1-21 WITHOUT NMGRT	$ 442,885.00			$ 679,595.00			$ 630,832.00		$ 590,768.46
					SUBTOTAL ABOVE BID ITEMS 1-21 WITH NMGRT (6.625%)	$ 472,226.13			$ 724,618.17			$ 672,624.62		$ 629,906.87

Mathemetical Error in Bid

WILSON &COMPANY

I, _____ P.E. do hereby certify that this bid tabulation was prepared under my supervision and I am a duly registered professional engineer under the laws of the State of New Mexico.

Company Details

Company Name	COMPASS ENGINEERING & CONSTRUCTION SERVICES, LLC	License Number	390516
Phone Number	5052216003	License Status	Active
Issue Date	12/15/2016	Expiry Date	12/31/2025
Volume	$1000000.00 +		
Principal Place of Business Address			
3815 ACADEMY PKWY N NE			
City	ALBUQUERQUE		
State	NM	Zip Code	87109

QP Details

Name	Certificate No	Classification	Attach Date	Status
MICHAEL DEAN SPINDLER	103766	GB98	10/18/2022	Attached
MARK OTERO	103130	MM98	12/15/2016	Attached
MARK OTERO	374040	GA98	12/15/2016	Attached
MARK OTERO	390930	GF98	02/03/2017	Attached
WILLIAM RAMON LUCERO	413555	GA98	09/11/2023	Attached

Back to search page Back

Entity Information

COMPASS ENGINEERING & CONSTRUCTION SERVICES LLC

Active Registration

Unique Entity ID
TPGDBYTCFBG8

CAGE/NCAGE
7TKS5

Expiration Date
Oct 3, 2024

Physical Address
3815 Academy Parkway North NE
Albuquerque, New Mexico
87109-4408, United States

Mailing Address
3815 Academy Parkway NORTH, NE
Albuquerque, New Mexico
87109, United States

Purpose of Registration
All Awards

Version

Current Record

BUSINESS INFORMATION

Doing Business As
(blank)

URL
https://compassnm.com

Division Name
Compass Engineering & Construction Services, Llc

Division Number
Compass En

Congressional District
New Mexico 01

State/Country of Incorporation
New Mexico, United States

Registration Dates

Activation Date
Oct 4, 2023

Initial Registration Date
Feb 15, 2017

Submission Date
Oct 4, 2023

Entity Dates

Entity Start Date
Nov 14, 2016

Fiscal Year End Close Date
Dec 31

Owner	CAGE	Legal Business Name
Immediate Owner	(blank)	(blank)
Highest Level Owner	(blank)	(blank)

Executive Compensation

Registrants in the System for Award Management (SAM) respond to the Executive Compensation questions in accordance with Section 6202 of P.L. 110-252, amending the Federal Funding Accountability and Transparency Act (P.L. 109-282). This information is not displayed in SAM. It is sent

to USAspending.gov for display in association with an eligible award. Maintaining an active registration in SAM demonstrates the registrant responded to the questions.

SAM SEARCH AUTHORIZATION

I authorize my entity's non-sensitive information to be displayed in SAM public search results:

☑ Yes

ENTITY TYPES

Business Types

Entity Structure	**Corporate Entity (Tax Exempt)**
Entity Type	**Business or Organization**
Profit Structure	**For Profit Organization**
Organization Factors	**Limited Liability Company**

Socio-Economic Types

Minority-Owned Business, Hispanic American Owned

Check the registrant's Reps & Certs, if present, under FAR 52.212-3 or FAR 52.219-1 to determine if the entity is an SBA-certified HUBZone small business concern. Additional small business information may be found in the SBA's Dynamic Small Business Search if the entity completed the SBA supplemental pages during registration.

FINANCIAL INFORMATION

Payments

Accepts Credit Card Payments
No

Debt Subject To Offset
No

ACCOUNT DETAILS

EFT Indicator **0000**
CAGE Code **7TKS5**

POINTS OF CONTACT

Electronic Business

Primary Point of Contact

Mark Otero, Owner

Address
3815 Academy Parkway NORTH, NE
Albuquerque, New Mexico 87109
United States

Alternate Point of Contact

Lynn Gonzalez, Office Manager

Address
3815 Academy Parkway North NE
Albuquerque, New Mexico 87109
United States

Government Business

Primary Point of Contact

William Lucero, Project Manager

Address

3815 Academy Parkway NORTH, NE
Albuquerque, New Mexico 87109
United States

Alternate Point of Contact

Anna Jones, Project Coordinator

Address
3815 Academy Parkway North NE
Albuquerque, New Mexico 87109
United States

Past Performance

Primary Point of Contact

Lynn Gonzalez, Office Manager

Address
3815 Academy Parkway North NE
Albuquerque, New Mexico 87109
United States

Release Notes

System Alerts

Policies

Privacy Policy

Disclaimers

Freedom of Information Act

Accessibility

Grants.gov

More Partners

Customer Service

Help

Check Entity Status

Federal Service Desk

External Resources

Contact

SAM.gov

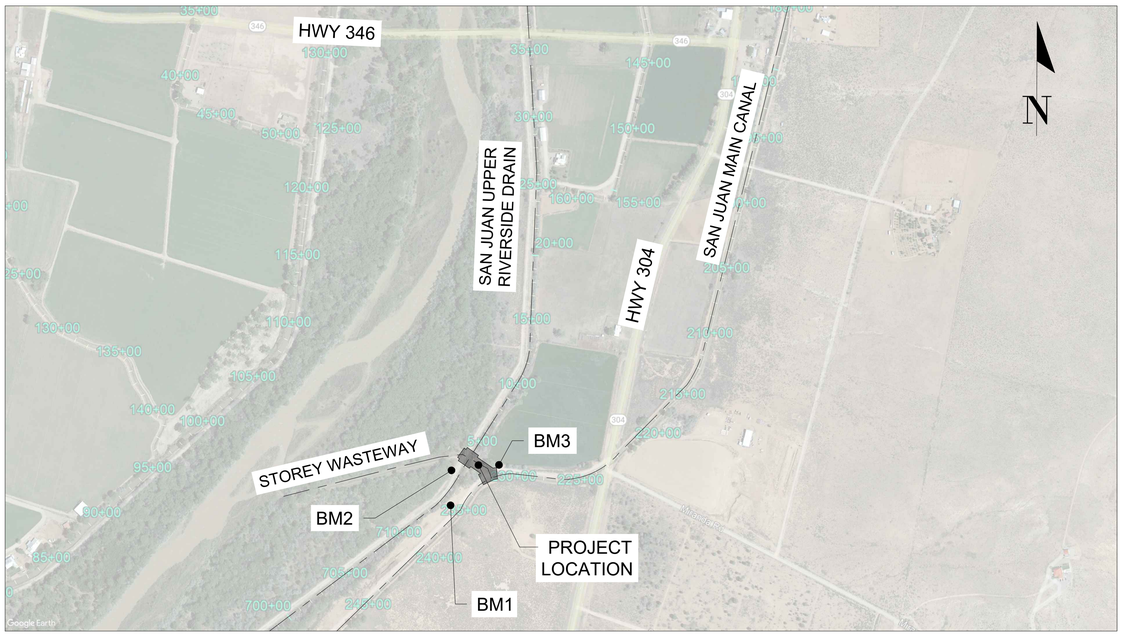
An official website of the U.S. General Services Administration

Registration Number	Contractor Name	DBA Name	Phone Number	Address Line1	Registration Date	Expiration Date	Registration Status	Modified On
28144966542016	Compass Engineering & Construction Servicess, LLC		5052216009	2727 SAN PEDRO DR NE	11/08/2022	12/07/2024	Active	11/08/2022

MIDDLE RIO GRANDE CONSERVANCY DISTRICT

STOREY WASTEWAY OCS
ENGR23-067

STOREY WASTEWAY - STA. 0+00 TO 3+00
SAN JUAN MAIN CANAL - STA. 232+00



VICINITY MAP

SHEET	DESCRIPTION
1	COVER SHEET
2	GENERAL NOTES
3	CONSTRUCTION LIMITS
4	DEMOLITION PLAN
5A - 5B	SITE PLAN
6	SECTION VIEWS
7	SECTION VIEWS
8	CHANNEL DETAILS
9	CATWALK DETAILS
10	BENCHMARKS

9/15/23

APPROVED BY:
Alicia Lopez, PE
Engineering & Mapping Manager
MRGCD

ALICIA C. LOPEZ
NEW MEXICO
26310
PROFESSIONAL ENGINEER
9/15/23

DRAWN BY: MC
CHECKED BY: ACL

REV #	DATE	DESCRIPTION

MIDDLE RIO GRANDE CONSERVANCY DISTRICT

STOREY WASTEWAY OCS
COVER - SHEET 1/10
SAN JUAN MAIN CANAL - STA. 232+00

MIDDLE RIO GRANDE CONSERVANCY DISTRICT

L:\01 Engineering Projects\03 Past Projects\FY23\ENGR23-067 Storey Wasteway Project Outfall Control Structure (OCS)\Engr\Acad\ENGR23-067 Design.dwg
September 15, 2023 - 11:37am

GENERAL NOTES:

1. ALL WORK DETAILED ON THESE PLANS TO BE PERFORMED UNDER CONTRACT SHALL, EXCEPT AS OTHERWISE STATED OR PROVIDED FOR HEREON, BE CONSTRUCTED IN ACCORDANCE WITH THE NEW MEXICO STATE HIGHWAY AND TRANSPORTATION DEPARTMENT STANDARD SPECIFICATIONS FOR HIGHWAY AND BRIDGE CONSTRUCTION, 2019 EDITION.

2. ALL COORDINATES SHOWN ON THE PLANS, HEREIN (N,E,Z) REFER TO GRID COORDINATES AND ARE RELATIVE TO LOCAL BENCHMARKS SET BY THE MRGCD.

3. LIMITS OF WORK ARE SHOWN ON THE PLANS. THE CONTRACTOR SHALL CONFINE OPERATIONS WITHIN THE PROJECT LIMITS UNLESS OTHERWISE NOTED OR PERMITTED. THE CONTRACTOR WILL BE HELD RESPONSIBLE FOR ANY AGREEMENTS NECESSARY OR DAMAGE BY HIS OPERATION TO PUBLIC OR PRIVATE PROPERTY INCLUDING UTILITIES.

4. FILL MATERIALS FROM EXCAVATION OR BORROW WHICH REQUIRE MORE THAN ONE HANDLING PRIOR TO FINAL PLACEMENT, INCLUDING STOCKPILING AND BLENDING TO MEET GRADATION REQUIREMENTS OR STOCKPILING FOR LATER DISPOSAL, WILL BE CONSIDERED INCIDENTAL TO THE CONTRACT UNIT PRICE FOR UNCLASSIFIED EXCAVATION. NO SEPARATE PAYMENT SHALL BE MADE FOR BLENDING OR MULTIPLE HANDLING AND FINAL PAYMENT SHALL BE MADE ON THE BASIS OF QUANTITIES REMOVED FROM ORIGINAL LOCATION.

5. THE CONTRACTOR SHALL NOT DISTURB ANY PERMANENT SURVEY MONUMENTS WITHOUT THE CONSENT OF THE CITY SURVEYOR AND THE ENGINEER. THE CONTRACTOR SHALL BEAR THE EXPENSE OF REPLACING ANY THAT MAY BE DISTURBED WITHOUT PERMISSION. REPLACEMENT SHALL BE DONE ONLY BY THE CITY SURVEYOR. WHEN A CHANGE IS MADE IN THE FINISHED ELEVATION OF ANY ROADWAY IN WHICH A PERMANENT SURVEY MONUMENT IS LOCATED, CONTRACTOR SHALL, AT HIS OWN EXPENSE, ADJUST THE MONUMENT COVER TO THE NEW GRADE UNLESS OTHERWISE SPECIFIED.

6. MINOR CHANGES IN ELEVATIONS AND SLOPES FOR EXCAVATION AND FILL MAY BE MADE TO SUIT FIELD CONDITIONS, AS APPROVED BY THE ENGINEER.

7. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL EXCAVATE AND VERIFY THE HORIZONTAL AND VERTICAL LOCATIONS OF ALL OBSTRUCTIONS. SHOULD A CONFLICT EXIST, THE CONTRACTOR SHALL NOTIFY THE ENGINEER SO THAT THE CONFLICT CAN BE RESOLVED WITH A MINIMUM AMOUNT OF DELAY.

8. TWO (2) WORKING DAYS PRIOR TO ANY EXCAVATION, CONTRACTOR MUST CONTACT N.M. ONE-CALL SYSTEM, (505) 260-1990, FOR LOCATION OF EXISTING UTILITIES.

9. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO ENSURE THAT BUILDING STRUCTURES ADJACENT TO THE PROJECT NOT BE DAMAGED DUE TO ANY CONSTRUCTION ACTIVITIES. DAMAGE CAUSED TO ANY BUILDING STRUCTURE WILL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR, INCLUDING ALL COSTS INCURRED IN RESTORING/REPAIRING SAID DAMAGE PER NMDOT SPEC. SECTION 617.

10. THE CONTRACTOR SHALL MAINTAIN AN UP TO DATE SET OF AS-BUILT PLANS FOR THE PROJECT. THESE PLANS SHALL BE KEPT CURRENT AT ALL TIMES AND SHALL BE SUBJECT TO REVIEW BY THE PROJECT MANAGER. THE FINAL AS-BUILT PLANS SHALL BE SUBMITTED TO THE PROJECT MANAGER.

11. THE CONTRACTOR SHALL INCLUDE IN THE CONSTRUCTION SEQUENCE PROVISIONS WHICH WILL ALLOW FOR THE SAFE PASSAGE OF WATER FROM ARROYOS, DITCHES, AND DRAINS THROUGH THE PROJECT SITE WITHOUT DAMAGE TO FACILITIES BEING CONSTRUCTED, COMPLETED FACILITIES, OR ADJACENT PRIVATE PROPERTY.

12. ALL STORM WATER DISCHARGES FROM THE PROJECT SITE SHALL MEET THE REQUIREMENTS OF THE REGULATIONS OF THE NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) AS WELL AS APPLICABLE STATE AND LOCAL REGULATIONS.

13. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VEHICLE TRACKING, SEDIMENT, AND DUST CONTROL. MEASURES SUCH AS SILT FENCING, MATS, AND ROCK PADS SHOULD BE IMPLEMENTED. SPECIFIC DETAILS AND LIMITATIONS SHALL BE DISCUSSED AT THE PROJECT KICKOFF MEETING.

14. WATERING, AS REQUIRED FOR CONSTRUCTION AND DUST CONTROL, SHALL BE CONSIDERED INCIDENTAL TO CONSTRUCTION AND NO MEASUREMENT OR PAYMENT SHALL BE MADE. CONSTRUCTION AREAS SHALL BE WATERED FOR DUST POLLUTION ABATEMENT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING AND SUPPLYING WATER AS REQUIRED. THE COST FOR REQUIRED CONSTRUCTION OF AIR QUALITY MITIGATION SHALL BE INCIDENTAL TO THE PROJECT COST.

15. SEVEN (7) WORKING DAYS PRIOR TO BEGINNING CONSTRUCTION, THE CONTRACTOR SHALL SUBMIT TO THE PROJECT MANAGER A DETAILED CONSTRUCTION SCHEDULE.

16. STRUCTURES SHALL BE CLEAN AT THE TIME OF FINAL PROJECT ACCEPTANCE. THIS WORK WILL BE CONSIDERED AS INCIDENTAL TO THE COMPLETION OF THE PROJECT AND NO SEPARATE MEASUREMENT OR PAYMENT WILL BE MADE THEREFORE.

17. CONTRACTOR SHALL MAINTAIN A GRAFFITI-FREE WORK SITE. CONTRACTOR SHALL PROMPTLY REMOVE ANY GRAFFITI FROM ALL EQUIPMENT, WHETHER PERMANENT OR TEMPORARY. THIS WORK IS INCIDENTAL TO TRAFFIC CONTROL BID ITEM.

18. ALL EXCAVATION, TRENCHING AND SHORING ACTIVITIES MUST BE CARRIED OUT IN ACCORDANCE WITH OSHA 29CFR 1926.650 SUBPART P.

19. THE CONTRACTOR WILL BE RESPONSIBLE FOR DISPOSING OF ALL DEBRIS, INCLUDING, NOT LIMITED TO HAZARDOUS WASTE AT DISPOSAL SITES APPROVED BY GOVERNMENTAL AGENCIES REGULATING THE DISPOSAL OF SUCH MATERIALS.

20. IT WILL BE THE CONTRACTOR'S SOLE RESPONSIBILITY TO PROTECT AND MAINTAIN, IN SERVICE, ALL EXISTING UTILITIES. THE CONTRACTOR SHALL ADEQUATELY SUPPORT AND PROTECT EXISTING UTILITIES AFFECTED BY THE CONTRACTOR'S TRENCHING ACTIVITY. IN THE EVENT THAT EXISTING UTILITIES ARE DAMAGED BY THE CONTRACTOR'S OPERATIONS, THE CONTRACTOR SHALL COORDINATE WITH THE PROJECT MANAGER, PROMPT REPAIR BY THE RESPECTIVE UTILITY AND SHALL BEAR THE COST OF THE REPAIRS.

21. THE CONTRACTOR SHALL COORDINATE WITH THE LOCAL PUBLIC WORKS AUTHORITY AS NECESSARY SEVEN (7) DAYS IN ADVANCE OF PERFORMING WORK THAT WILL AFFECT THE PUBLIC WATER OR SANITARY SEWER INFRASTRUCTURE.

22. THE CONTRACTOR SHALL ENSURE THAT THE ACTIVE CONSTRUCTION SITE IS CLOSED TO THE PUBLIC, BOTH VEHICULAR AND PEDESTRIAN. BARRICADES, TRAFFIC CONTROL AND CONSTRUCTION SIGNS SHALL BE ERECTED AND MAINTAINED BY THE CONTRACTOR. THE CONTRACTOR SHALL PROVIDE AND MAINTAIN ALL CONSTRUCTION SIGNING UNTIL PROJECT IS COMPLETE AND HAS BEEN ACCEPTED BY THE MRGCD.

23. THE CONTRACTOR SHALL PROVIDE AND INSTALL WATERSTOPS AT ALL CONSTRUCTION JOINTS AND ADJACENT FACES OF SEPARATE MONOLITHIC CONCRETE STRUCTURES.

24. THE CONTRACTOR SHALL ENSURE THAT ALL INLETS, OUTLETS, AND JOINTS ALONG CULVERTS ARE WATERTIGHT PER NMDOT SPEC 570.

25. CURRENT WATER SURFACE ELEVATIONS AND WATER TABLE LEVELS WILL BE AGREED UPON AND DISCUSSED DURING THE PROJECT KICKOFF MEETING. ONCE THESE INITIAL ELEVATIONS ARE DETERMINED, DEWATERING DEPTHS AND COSTS WILL BE BASED OFF OF THOSE REFERENCE ELEVATIONS.

MRGCD GENERAL NOTES:

1. NO WORK IS TO BE DONE ON FACILITIES OR STRUCTURES BELONGING TO, OR OPERATED BY, THE MRGCD BETWEEN MARCH 1 AND OCTOBER 31 INCLUSIVE. HOWEVER, WORK MAY BE PERMITTED BY THE MRGCD. IF IT CAN BE SHOWN THAT THE WORK WILL NOT INTERFERE WITH OPERATIONS OF THE MRGCD FACILITY. ALL WORK TO BE DONE WITHIN THE MRGCD FACILITIES MUST BE APPROVED BY THE MRGCD ENGINEER PRIOR TO COMMENCING WORK.

2. THE CONTRACTOR SHALL NOT STORE EQUIPMENT, NEW MATERIALS OR DEBRIS WITHIN DISTRICT RIGHT OF WAY WHICH MAY INTERFERE WITH OPERATIONS AND MAINTENANCE OF THE MRGCD FACILITY.

3. THE CONTRACTOR SHALL NOT SERVICE VEHICLES OR EQUIPMENT WITHIN MRGCD RIGHT OF WAY.

4. DISTURBED AREAS WHICH REQUIRE RE-SEEDING WITHIN MRGCD RIGHT OF WAY SHALL BE TREATED AND STABILIZED USING MRGCD SEEDING SPECIFICATIONS. NO MEASUREMENT OR PAYMENT WILL BE MADE THEREFORE.

5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING PERMISSION FROM INDIVIDUAL LAND OWNERS TO ACCESS THE PROJECT SITE BY WAY OF PRIVATE CROSSINGS AND PROPERTY.

6. THE CONTRACTOR IS RESPONSIBLE FOR REPAIR AND OR REPLACEMENT OF ANY STRUCTURES REMOVED AND OR DAMAGED DUE TO THE CONTRACTORS ACTIVITIES WITHIN THE MRGCD RIGHT OF WAY. ANY STRUCTURES SUCH AS TURNOUTS, CULVERT PIPES, EMBANKMENTS, FENCING, AND OTHER LICENSED INFRASTRUCTURE WHICH ARE DAMAGED DURING CONSTRUCTION ACTIVITIES, SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE. REPAIRS AND OR REPLACEMENTS WITHIN THE MRGCD RIGHT OF WAY MUST COMPLY WITH NMDOT STANDARD SPECIFICATIONS.

7. ALL SALVAGEABLE CULVERTS, IRRIGATION GATES, ETC. MUST BE RETURNED TO THE MRGCD

8. TEMPORARY INSTALLATIONS SHALL BE REMOVED BEFORE OR UPON PROJECT COMPLETION SUCH THAT THE FINISHED WORK WILL NOT INTERFERE WITH MRGCD OPERATIONS AND MAINTENANCE ACTIVITIES.

PIPE INSTALLATION NOTES:

1. PIPE JOINTS SHOULD NOT BE PLACED DIRECTLY OVER UTILITIES OR UNDER WHEEL WELL LOCATIONS.

2. ALL PIPES FOR THIS PROJECT SHALL BE HDPE (HIGH DENSITY POLYETHYLENE) AND SHALL CONFORM TO SECTION 570 OF THE NMDOT STANDARD SPECIFICATIONS FOR HIGHWAY AND BRIDGE CONSTRUCTION UNLESS OTHERWISE REQUESTED BY THE CONTRACTOR AND APPROVED BY THE ENGINEER.

GENERAL DEMOLITION NOTES:

1. LOCATION AND EXTENTS OF EXISTING INFRASTRUCTURE ARE APPROXIMATED.

2. IF LOCATION AND CONDITION OF EXISTING INFRASTRUCTURE VARIES FROM WHAT IS SHOWN ON THE DEMOLITION PLAN, THE ENGINEER PROJECT MANAGER SHALL BE CONTRACTED PRIOR TO PROCEEDING.

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PROFESSIONAL ENGINEER
9/15/23

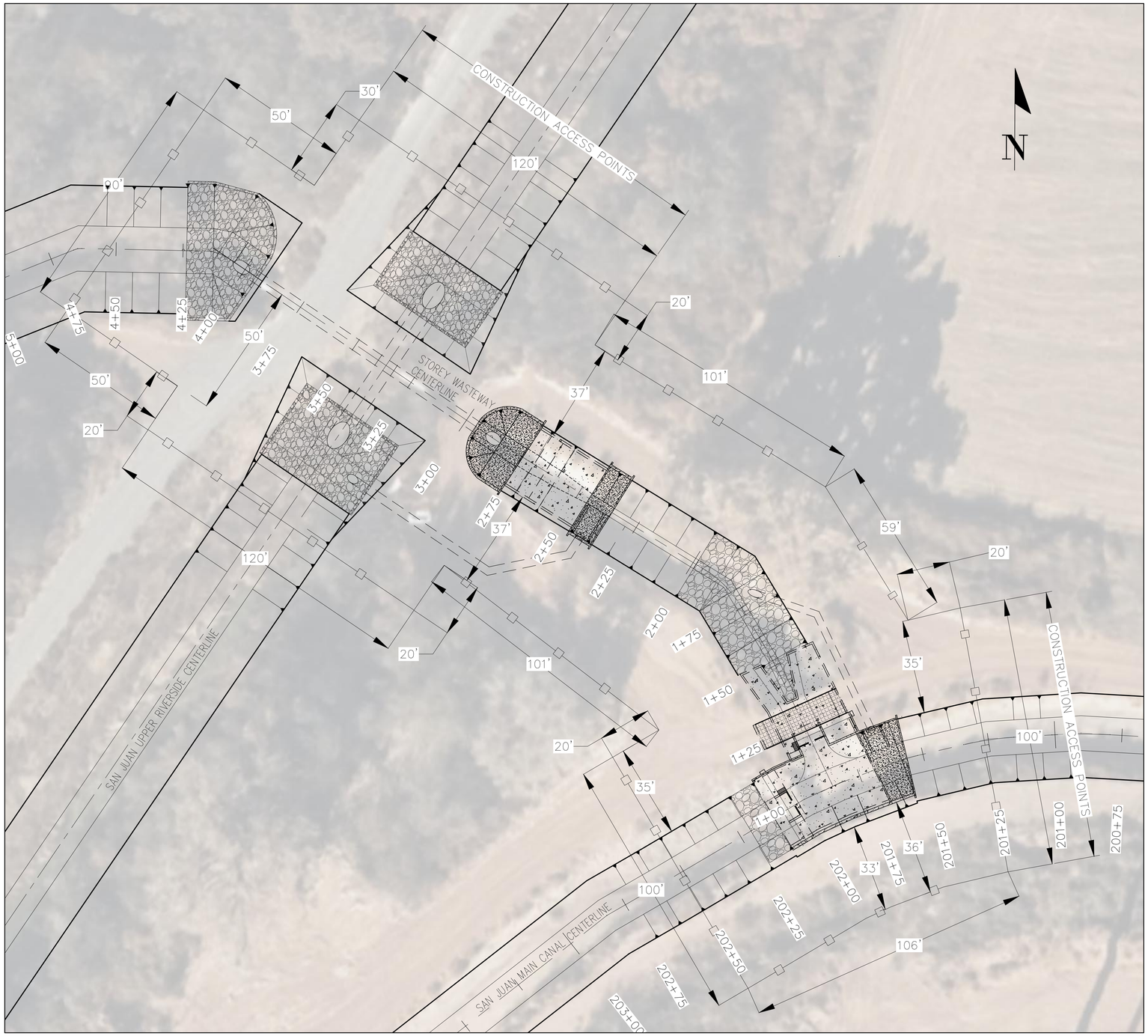
MIDDLE RIO GRANDE CONSERVANCY DISTRICT

STOREY WASTEWAY OCS

GENERAL NOTES - SHEET 2/10

SAN JUAN MAIN CANAL - STA. 232+00

MIDDLE RIO GRANDE CONSERVANCY DISTRICT



CONSTRUCTION LIMIT PLAN
SCALE: 1"=20'

NOTES:

1. APPROPRIATE SIGNAGE AND TEMPORARY BARRICADES SHALL BE ERECTED AT ALL ACCESS POINTS TO THE CONSTRUCTION ZONE TO PREVENT PUBLIC ACCESS INTO THE ACTIVE CONSTRUCTION ZONE. APPROVED TRAFFIC PLAN SHALL BE SUBMITTED TO MRGCD REVIEW.
2. ANY TEMPORARY CROSSINGS TO BE CONSTRUCTED FOR CONSTRUCTION ACCESS AND MOBILITY SHALL HAVE A 95% MINIMUM COMPACTION.

LEGEND

- EXISTING CONCRETE
- PROPOSED CONCRETE
- RIPRAP CHANNEL LINING
- WOODEN BRIDGE
- FACILITY CENTERLINE
- BURIED PIPE
- CONSTRUCTION LIMITS

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MIDDLE RIO GRANDE CONSERVANCY DISTRICT

STOREY WASTEWAY OCS
CONSTRUCTION LIMITS - SHEET 3/10
SAN JUAN MAIN CANAL - STA. 232+00

MIDDLE RIO GRANDE CONSERVANCY DISTRICT

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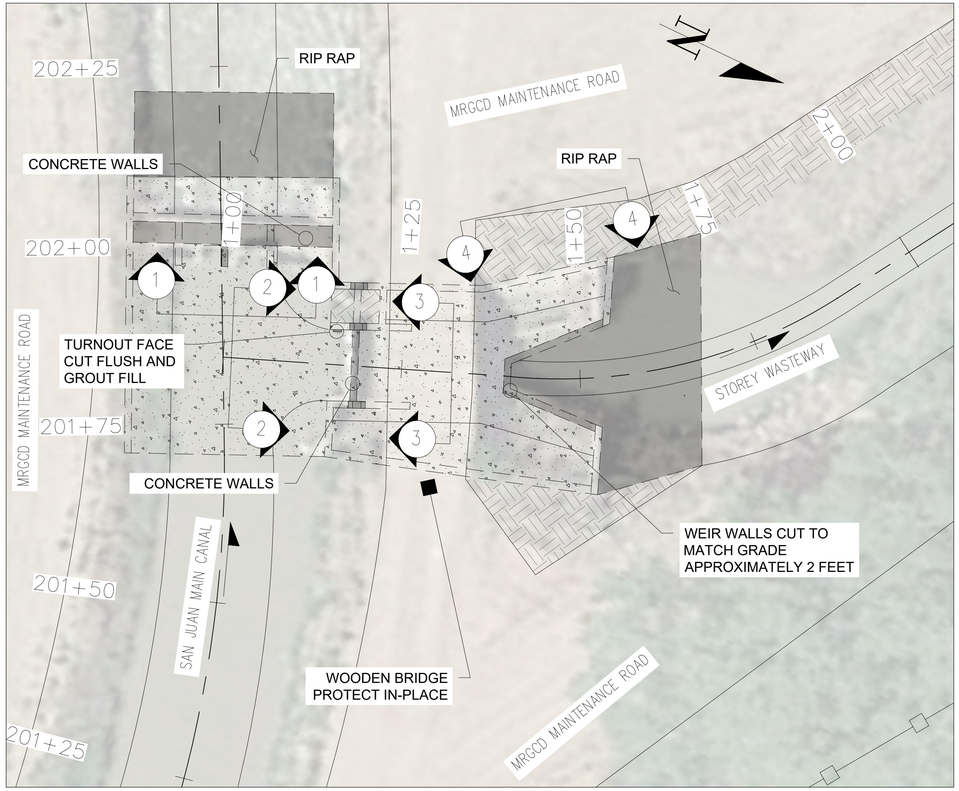
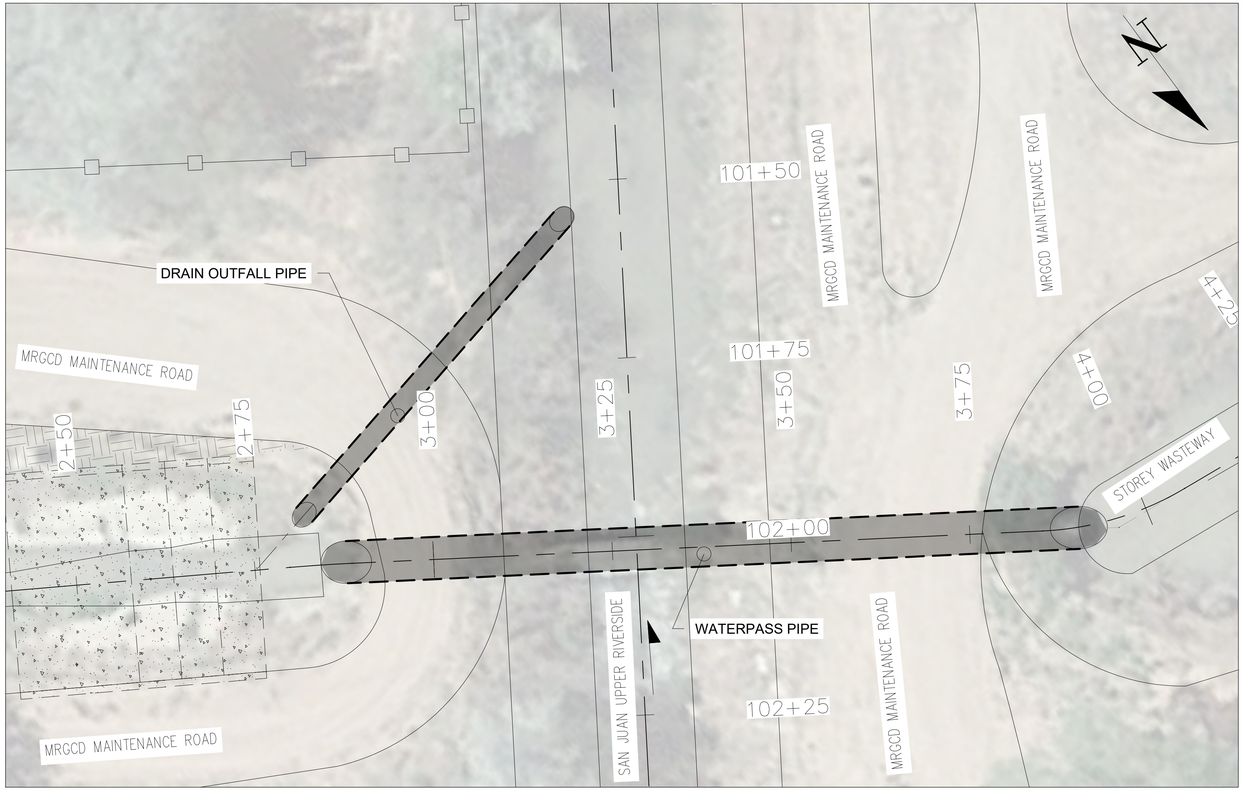
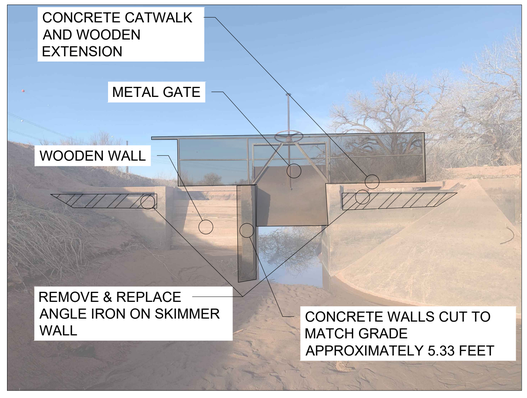


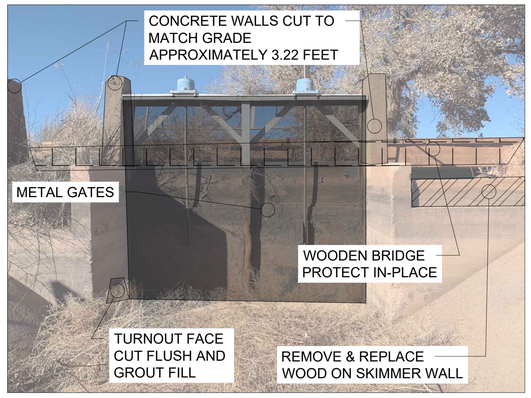
SAN JUAN MAIN CANAL DEMOLITION PLAN
SCALE: 1" = 10'



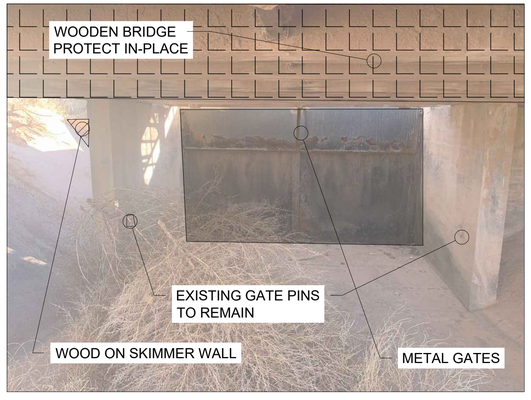
STOREY WASTEWAY WATERPASS DEMOLITION PLAN
SCALE: 1" = 10'



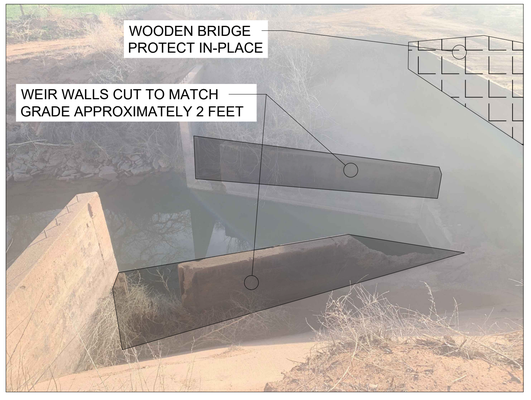
1 SAN JUAN MAIN CANAL CHECK STRUCTURE
SCALE: NTS



2 STOREY WASTEWAY CHECK STRUCTURE
SCALE: NTS



3 STOREY WASTEWAY CHECK STRUCTURE
SCALE: NTS



4 STOREY WASTEWAY WEIR STRUCTURE
SCALE: NTS

LEGEND

EXISTING CONCRETE

EARTH MATERIAL

WOODEN BRIDGE

METAL EXTENSION

STRUCTURE TO BE REMOVED

FACILITY CENTERLINE

BURIED PIPE

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MIDDLE RIO GRANDE CONSERVANCY DISTRICT

STOREY WASTEWAY OCS

DEMOLITION PLAN - SHEET 4/10

SAN JUAN MAIN CANAL - STA. 232+00 TO 202+00

MIDDLE RIO GRANDE CONSERVANCY DISTRICT

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LEGEND

- EXISTING CONCRETE
- PROPOSED CONCRETE
- RIPRAP CHANNEL LINING
- WOODEN BRIDGE
- FACILITY CENTERLINE
- BURIED PIPE

202+50
202+25
202+00
201+75
201+50
201+25
201+00
1+00
1+25
1+50
1+75
2+00
10.02'
12.95'
8.53'
ALLOW ACCESS FOR OUTER ENCLOSURE BOX
31.50'
30.41'
10.00'
1.00'
8.72'
1.00'
3.00'
2.00'
30.42'
5.21'
9.92'
9.28'
0.50'
8.07'
7.27'
1.02'
40.39'
3.00'
10.05'
1.93'
23.23'
5.89'
0.64'
7.76'
9.13'
1.36'
1.00'
10.00'
12.60'
2.50'
48.07'
1.00'
0.50'
7"
3.29'
0.50'
1.50'
WOODEN BRIDGE PROTECT IN-PLACE
ALLOW ACCESS FOR OUTER ENCLOSURE BOX
INVERT ELV: 4769.47'
SEE CHANNEL DETAILS SHEET 8 FOR NEW TO EXISTING CHANNEL LINING OPTIONS
MATCHLINE SEE SHEET 5B
17.97'
10.00'
12.30'
3.70'
12.30'
29"
12.30'
3.70'
12.30'
10.00'
7.14'
6.89'
45°
27.06'
INVERT ELV: 4767.00'
7 G
7 F
7 E
N
0 8 16 Feet
1" = 8'

ALICIA C. LOPEZ NEW MEXICO 26310 PROFESSIONAL ENGINEER
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MIDDLE RIO GRANDE CONSERVANCY DISTRICT

STOREY WASTEWAY OCS

SITE PLAN - SHEET 5A/10

SAN JUAN MAIN CANAL - STA. 232+00

MIDDLE RIO GRANDE CONSERVANCY DISTRICT

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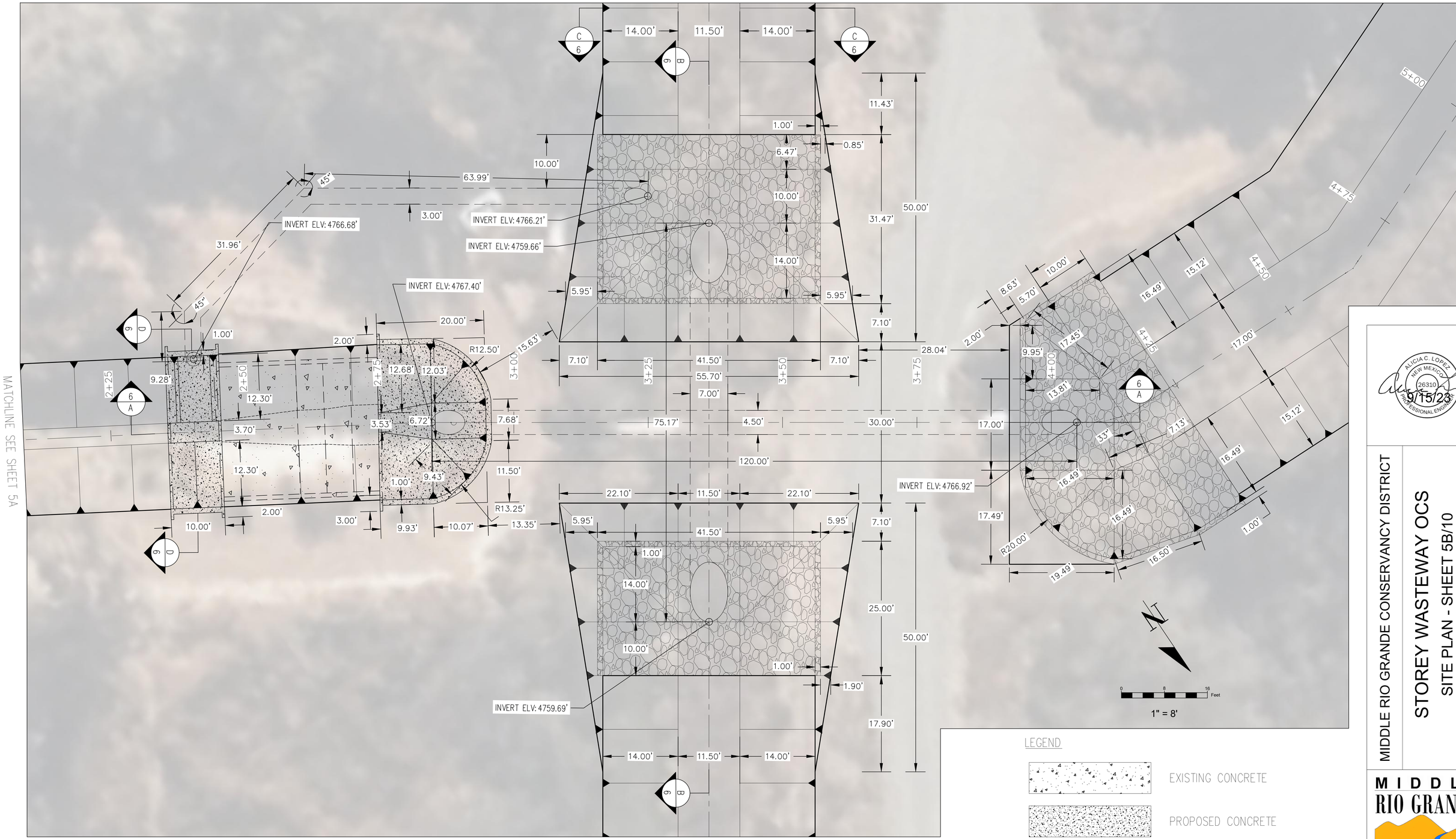

LEGEND

- EXISTING CONCRETE
- PROPOSED CONCRETE
- RIPRAP CHANNEL LINING
- FACILITY CENTERLINE
- BURIED PIPE

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MIDDLE RIO GRANDE CONSERVANCY DISTRICT

STOREY WASTEWAY OCS

SITE PLAN - SHEET 5B/10

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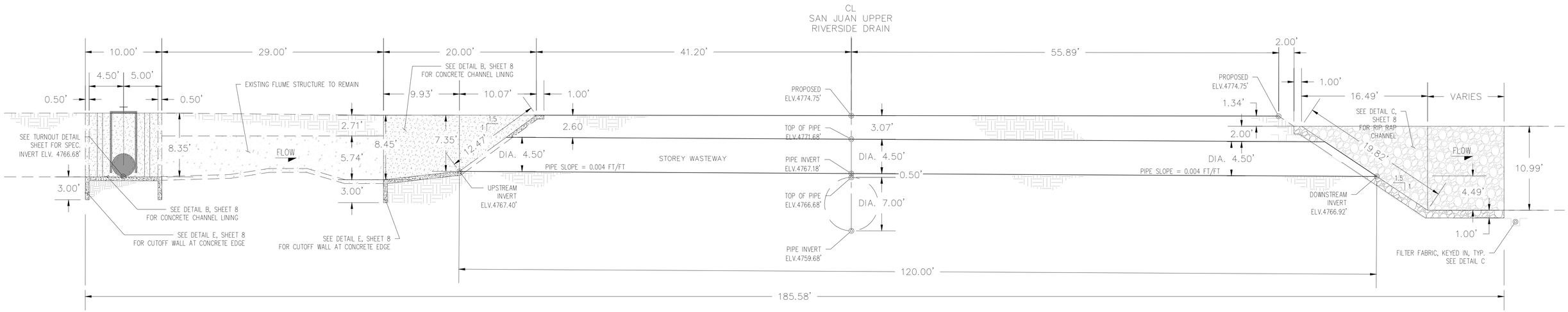
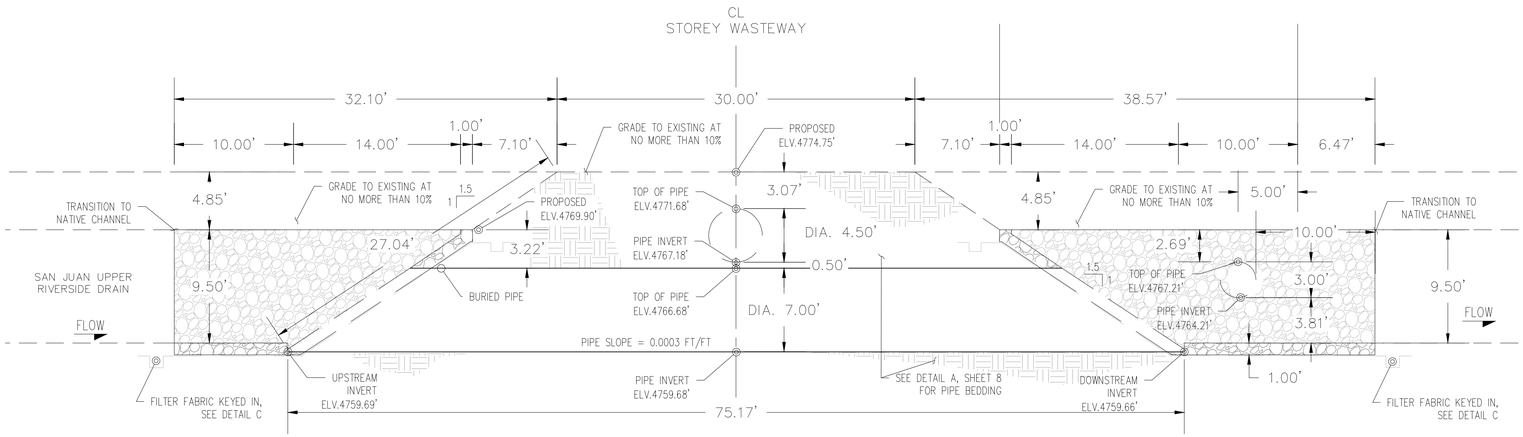
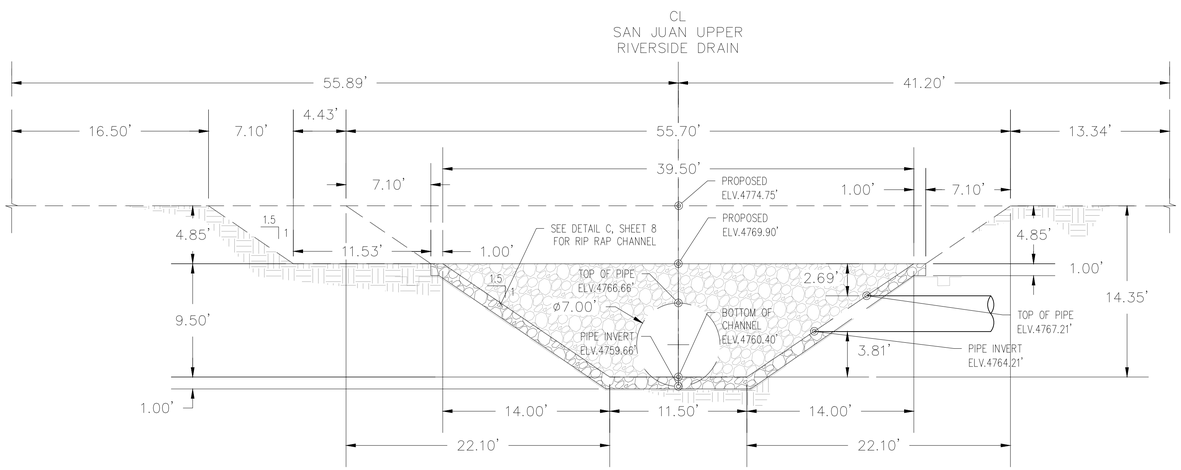


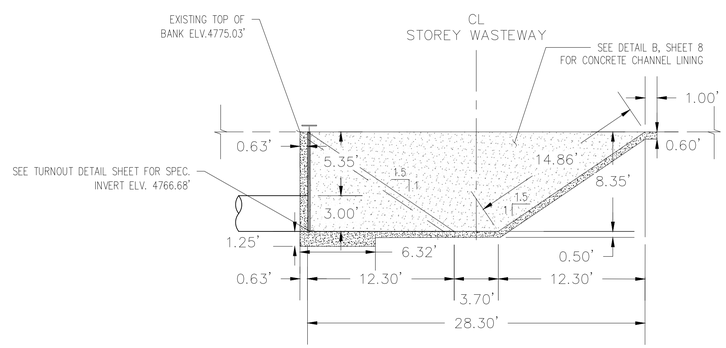
SECTION A: STOREY WASTEWAY
1" = 6'



SECTION B: SAN JUAN UPPER RIVERSIDE DRAIN
1" = 6'



SECTION C: SAN JUAN UPPER RIVERSIDE DRAIN
1" = 6'



SECTION D: STOREY WASTEWAY TURNOUT
1" = 6'

LEGEND

- EXISTING CONCRETE
- PROPOSED CONCRETE
- RIPRAP CHANNEL LINING
- WOODEN BRIDGE
- METAL EXTENSION
- PROPOSED CHANNEL
- EXISTING CHANNEL
- FACILITY CENTERLINE

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MIDDLE RIO GRANDE CONSERVANCY DISTRICT

STOREY WASTEWAY OCS

SECTION VIEWS - SHEET 6/10

SAN JUAN MAIN CANAL - STA. 232+00

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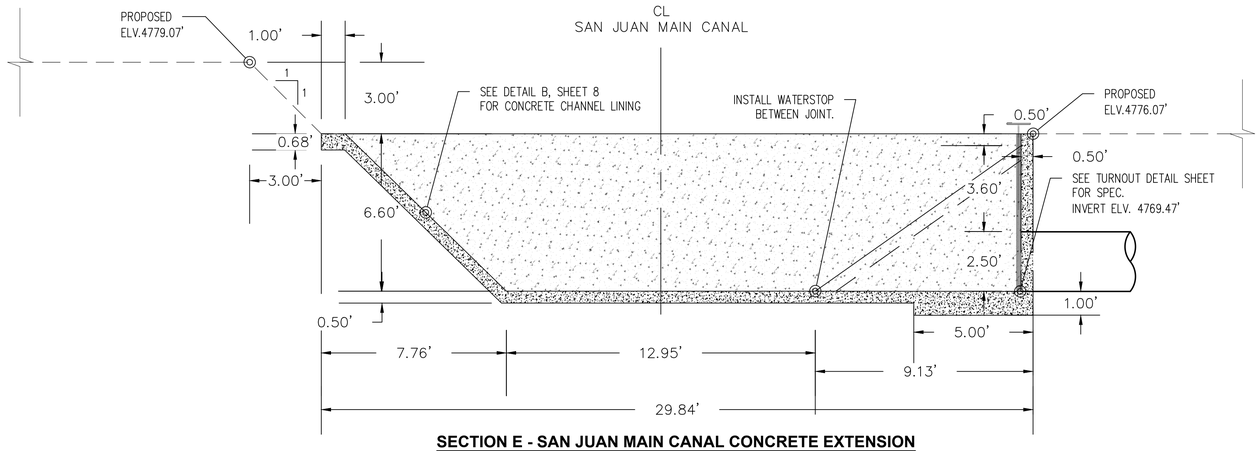
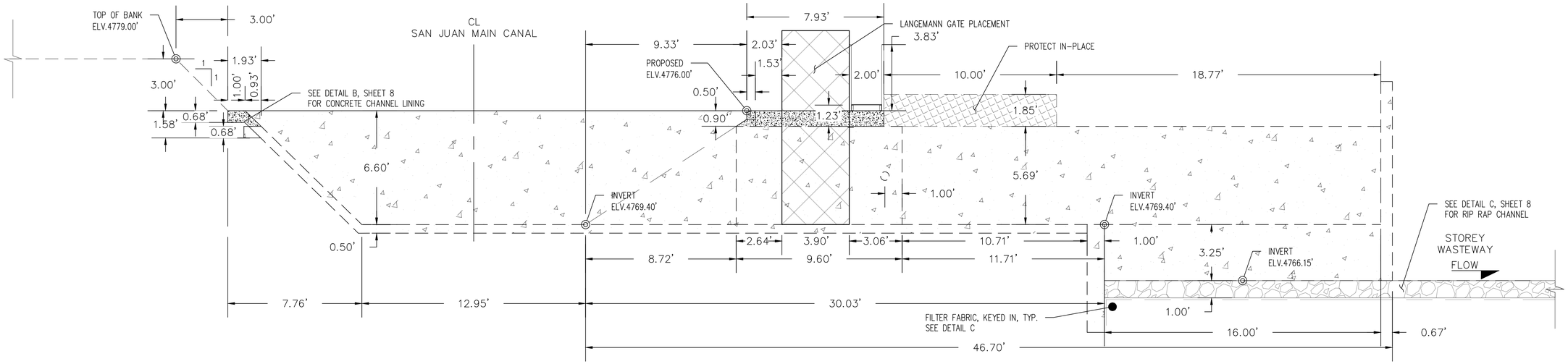


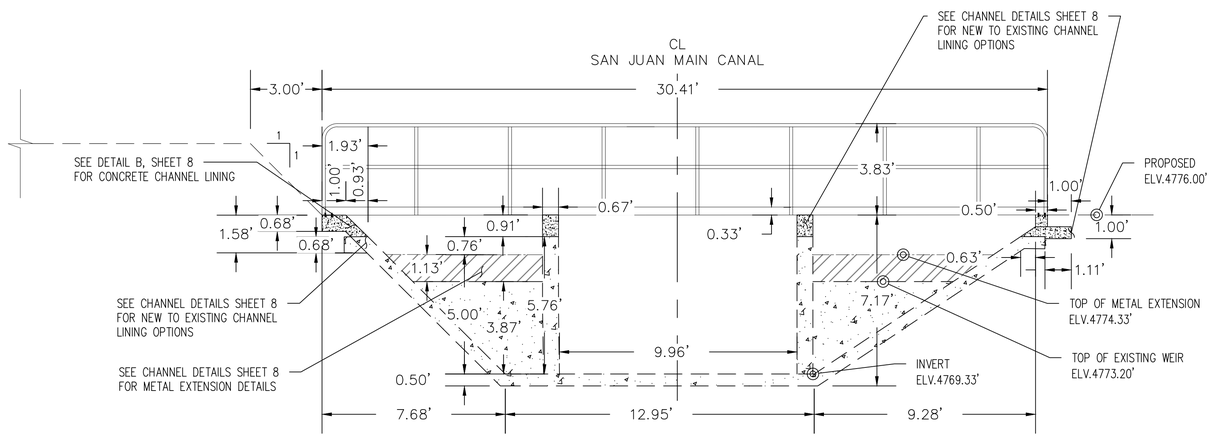
SECTION E - SAN JUAN MAIN CANAL CONCRETE EXTENSION
1" = 3'



SECTION F - STOREY WASTEWAY HEADING
1" = 3'

LEGEND

- EXISTING CONCRETE
- PROPOSED CONCRETE
- RIPRAP CHANNEL LINING
- WOODEN BRIDGE
- METAL EXTENSION
- PROPOSED CHANNEL
- EXISTING CHANNEL
- FACILITY CENTERLINE



SECTION G - SAN JUAN MAIN CANAL CHECK STRUCTURE
1" = 3'

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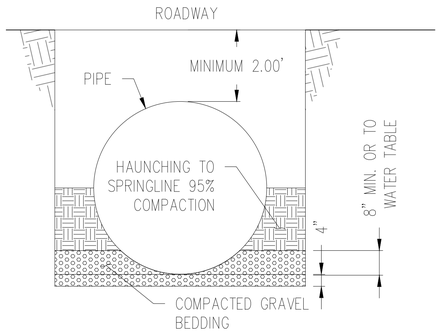
MIDDLE RIO GRANDE CONSERVANCY DISTRICT

STOREY WASTEWAY OCS

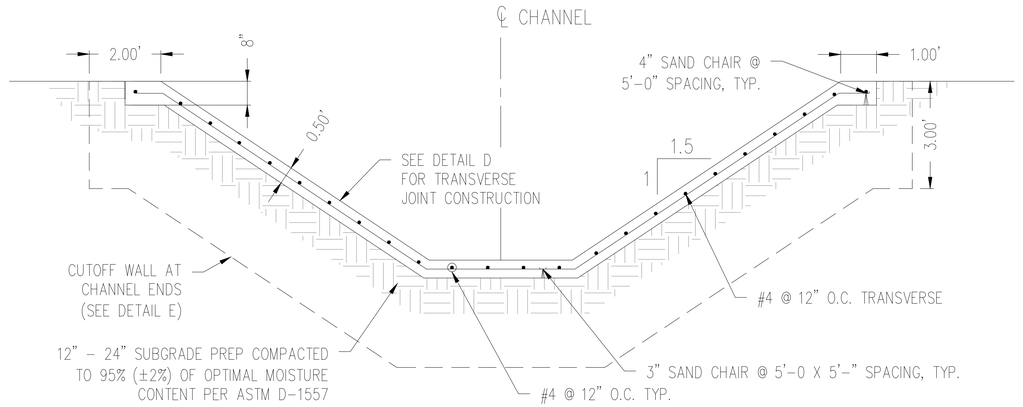
SECTION VIEWS - SHEET 7/10

SAN JUAN MAIN CANAL - STA. 232+00

MIDDLE RIO GRANDE CONSERVANCY DISTRICT



DETAIL A: PIPE BEDDING DETAIL



DETAIL B: CONCRETE CHANNEL LINING

GENERAL NOTES:

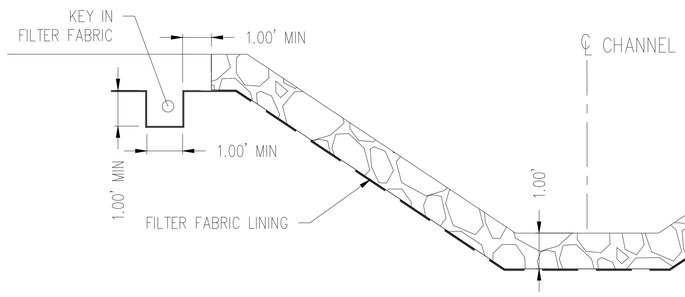
1. FOR NEW TO EXISTING CONCRETE CONNECTIONS, THE ENGINEERING DEPARTMENT SHALL BE NOTIFIED TO INSPECT THE EXISTING CONCRETE AND STEEL REINFORCEMENT TO DETERMINE THE USE OF ONE OF THE FOLLOWING OPTIONS:

   OPTION 1: THE EXISTING CHANNEL LINING SHALL BE SAWCUT AS FAR BACK AS NECESSARY (2.5' MINIMUM) UNTIL A CLEAN AND STABLE END SECTION CAN BE ACHIEVED. THE NEW CHANNEL LINING CAN THEN BE CONSTRUCTED AND TIED TO THE EXISTING CONCRETE.

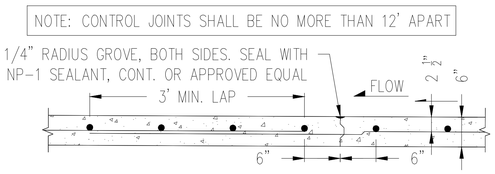
   OPTION 2: IF IT IS NOT FEASIBLE TO TIE INTO THE EXISTING CHANNEL LINING, A CUTOFF WALL SHALL BE CONSTRUCTED AT THE END OF THE CONCRETE SECTION, ABUTTING THE EXISTING CONCRETE.

☐ KEYED NOTES:

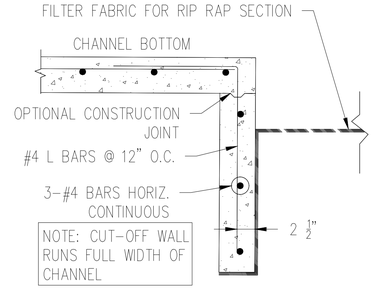
1. EUCO ARC LITHIUM NITRATE COATING OR APPROVED EQUAL APPLIED TO VERTICAL SURFACE AND 12" OF TOP SURFACE OF EXISTING CONCRETE TO REMAIN.



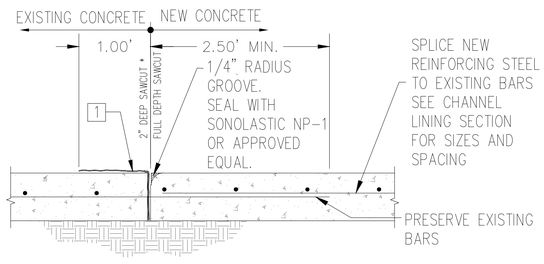
DETAIL C: RIP RAP LINING



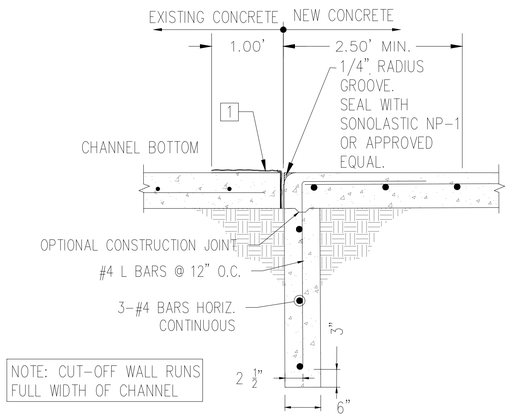
DETAIL D: TYPICAL TRANSVERSE CONSTRUCTION JOINT



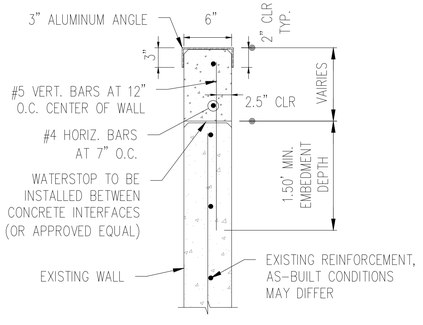
DETAIL E: TYPICAL CUTOFF WALL SECTION



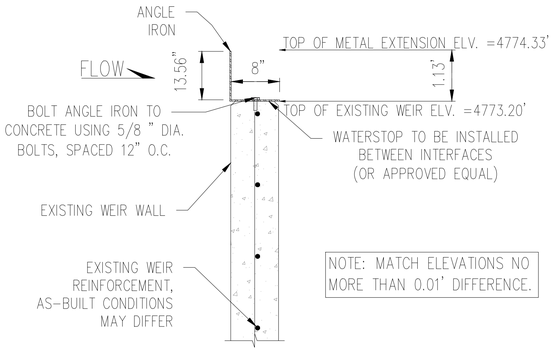
OPTION 1: NEW TO EXISTING CHANNEL LINING CONSTRUCTION ANCHORING



OPTION 2: NEW TO EXISTING CHANNEL LINING CUTOFF WALL



WALL EXTENSION DETAIL



METAL EXTENSION DETAILS

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9/15/23

MIDDLE RIO GRANDE CONSERVANCY DISTRICT

STOREY WASTEWAY OCS
CHANNEL DETAILS - SHEET 8/10
SAN JUAN MAIN CANAL - STA. 232+00

MIDDLE RIO GRANDE CONSERVANCY DISTRICT

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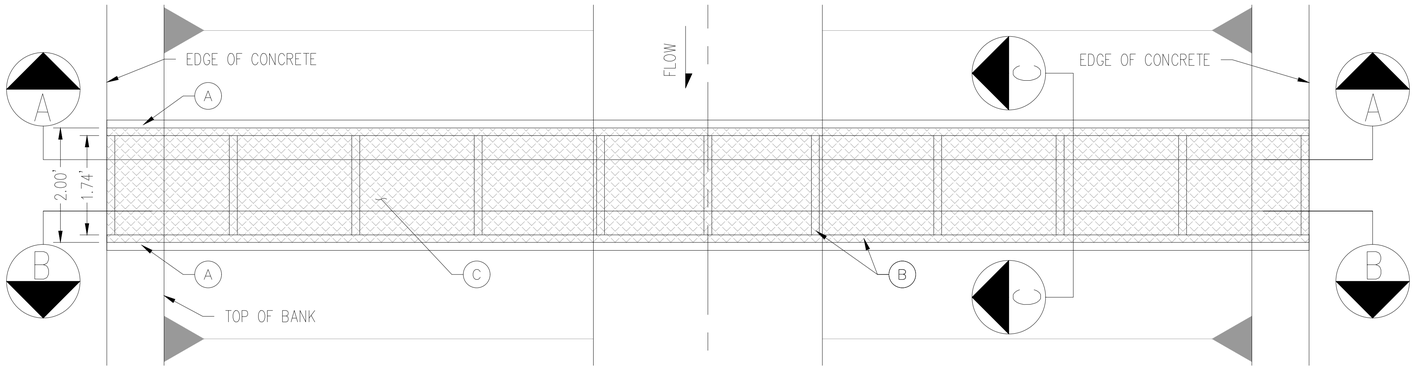
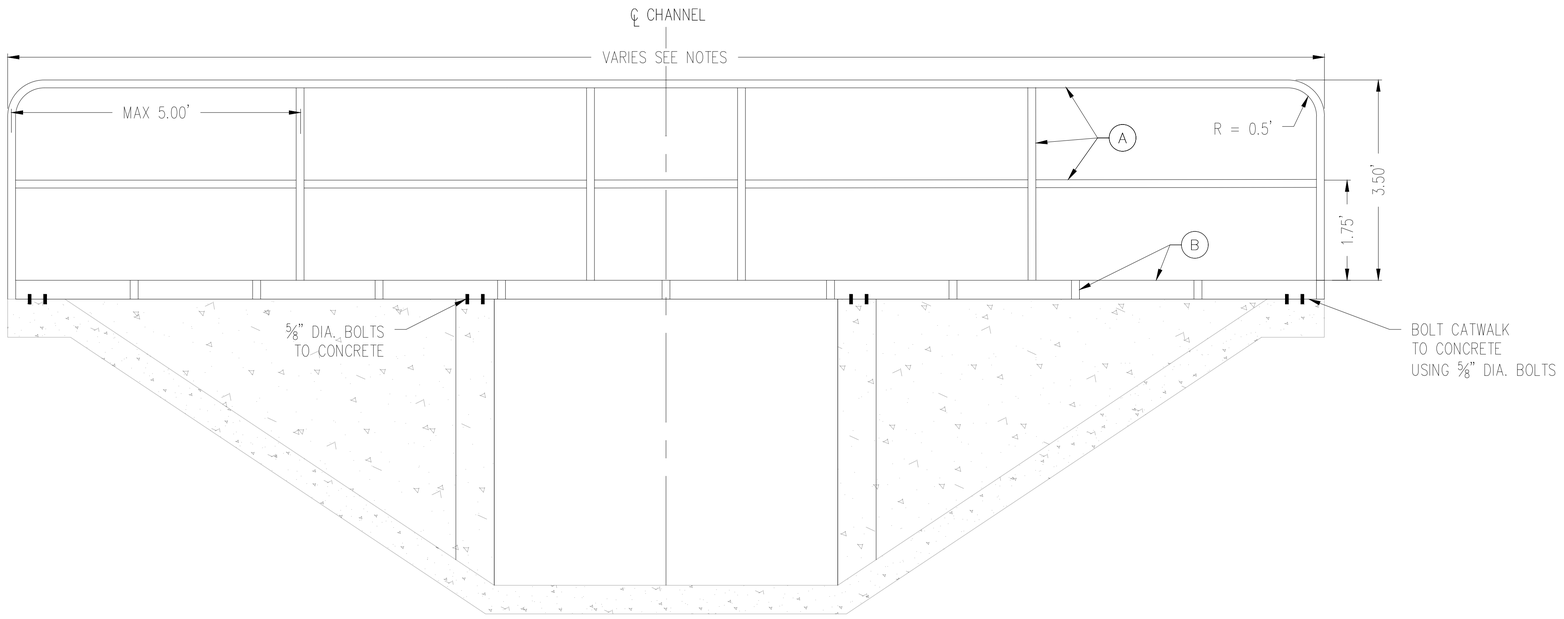


CATWALK PLAN VIEW
NTS

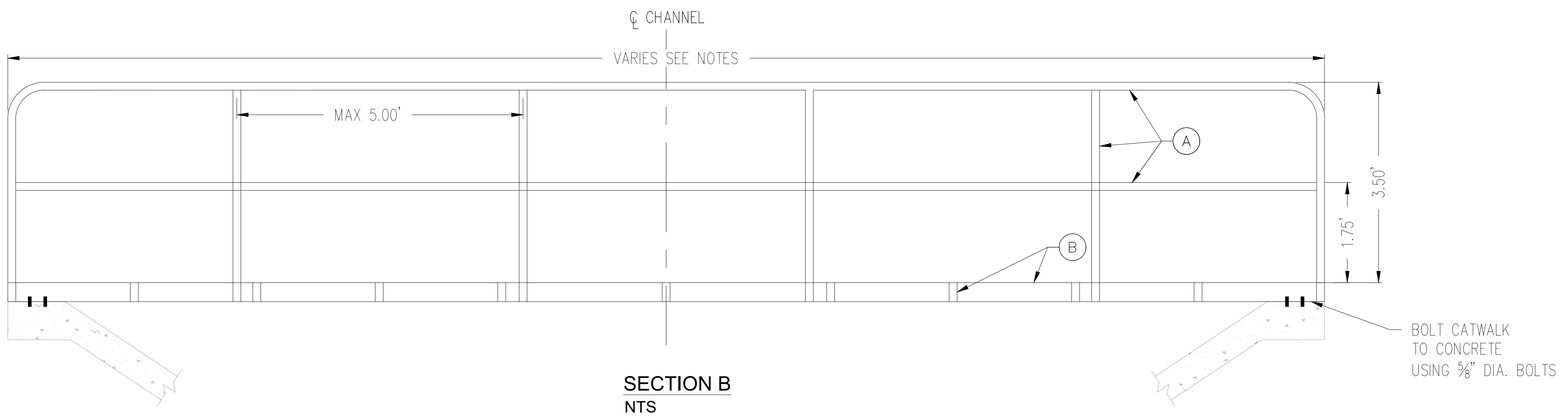
KEYED NOTES:
- A. 1–1/4" I.D. ROUND PIPE
- B. 4" X $\frac{3}{16}$" C CHANNEL IRON
- C. RAISED EXPANDED METAL

CONSTRUCTION NOTES:
1. CATWALK SHALL BE PAINTED WITH RUST–OLEUM (7715), INCLUDING THE BOTTOM OF THE WALKWAY, EXTRA CARE MUST BE TAKEN TO AVOID PAINTING OTHER STRUCTURES, CONCRETE, OR SHOTCRETE IN THE VICINITY
2. CATWALK ONBOARDING POSTS SHALL BE MARKED WITH REFLECTIVE TAPE

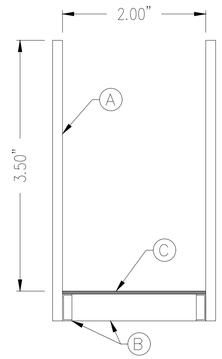
NOTES:
1. CATWALK LENGTH VARIES ALONG THE TWO CHANNELS;
   SAN JUAN MAIN CANAL: 30.41'
   STOREY WASTEWAY: 23.23'



SECTION A
NTS



SECTION B
NTS



SECTION C
NTS

MIDDLE RIO GRANDE CONSERVANCY DISTRICT

NEW BELEN WASTEWAY OCS

CATWALK DETAILS - SHEET 9/10

SAN JUAN MAIN CANAL - STA. 232+00

MIDDLE RIO GRANDE CONSERVANCY DISTRICT

FIGURE 1 : BENCHMARK 1 LOCATION PHOTO

BENCHMARK (BM 1)
BM 1 IS THE TOP OF REBAR LOCATED ALONG THE SAN JUAN MAIN CANAL. THE LOCATION OF BM 1 IS SPRAY PAINTED ORANGE, AND MARKED WITH A LATH, AS SHOWN ON FIGURE 1 AND THE VICINITY MAP.

ELEVATION: 4775.74'
NORTHING: 1485545.257'
EASTING: 1286707.348'

FIGURE 2 : BENCHMARK 2 LOCATION PHOTO

BENCHMARK (BM 2)
BM 2 IS THE TOP OF REBAR LOCATED ALONG THE SAN JUAN UPPER RIVERSIDE DRAIN SOUTH OF THE STOREY WASTEWAY. THE LOCATION OF BM 2 IS SPRAY PAINTED ORANGE, AND MARKED WITH A LATH, AS SHOWN ON FIGURE 2 AND THE VICINITY MAP.

ELEVATION: 4774.18'
NORTHING: 1485494.833'
EASTING: 1286929.851'

FIGURE 3 : BENCHMARK 3 LOCATION PHOTO

BENCHMARK (BM 3)
BM 3 IS THE TOP OF REBAR LOCATED ALONG THE SAN JUAN MAIN CANAL NORTH OF THE STOREY WASTEWAY. THE LOCATION OF BM 3 IS SPRAY PAINTED ORANGE, AND MARKED WITH A LATH, AS SHOWN ON FIGURE 3 AND THE VICINITY MAP.

ELEVATION: 4774.80'
NORTHING: 1485866.038'
EASTING: 1286900.926'

ALICIA C. LOPEZ
NEW MEXICO
26310
PROFESSIONAL ENGINEER
9/15/23

MIDDLE RIO GRANDE CONSERVANCY DISTRICT

NEW BELEN WASTEWAY OCS
BENCHMARK DETAILS - SHEET 10/10
SAN JUAN MAIN CANAL - STA. 232+00

MIDDLE RIO GRANDE CONSERVANCY DISTRICT

L:\01 Engineering Projects\03 Past Projects\FY23\ENGR23-067 Storey Wasteway Project Outfall Control Structure (OCS)\Engr\Acad\ENGR23-067 Design.dwg
September 15, 2023 - 11:34am

TECHNICAL SPECIFICATIONS

STOREY WASTEWAY OUTFALL CONTROL STRUCTURE

The "NEW MEXICO DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR HIGHWAY AND BRIDGE CONSTRUCTION, 2019 EDITION" are incorporated into this project as Technical Specifications.

The 2019 Standard Specifications and Standard Drawings are available at https://dot.state.nm.us/content/nmdot/en/standards.html. Bound 2019 Standard Specifications and Standard Drawings can be purchased. Please call 505-469-4983.

Note: All locations within the specification which refer to the "Department" shall be replaced with "Engineer". All coordination and communication shall take place between the contractor and the MRGCD.

ITEM	SUPPLEMENTAL SPECIFICATION
1	TRAFFIC CONTROL
2	NMDOT SPEC 602 – SLOPE AND EROSION PROTECTION STRUCTURES

Additional Reporting:

Geotechnical investigation data is not available for this project.

ITEM 1: TRAFFIC CONTROL

Scope

The work shall consist of establishing traffic control and maintaining safe, convenient use of public roads and rights-of-way.

Traffic and Access

The Contractor's operations shall cause no unnecessary inconvenience to the public. The public rights-of-way shall be maintained at all times unless interruption is authorized by proper local authority. Contractor's authorized closing or detour plans shall be provided to the engineer for approval.

Safe and adequate access shall be provided and maintained to all public protection devices and to all critical utility control locations. Facility access shall be continuous and unobstructed unless otherwise approved. Traffic control for the project shall be managed by a certified traffic control supervisor (TCS). A daily traffic control log shall be maintained and provided to the Engineer upon request.

Storage of Equipment and Material in Public Streets

Construction materials and equipment shall not be stored or parked on public streets, roads, or highways. During any material or equipment loading or unloading activities that may temporarily interfere with traffic, an acceptable detour shall be provided for the duration of the activity. Any associated expense for this activity is the responsibility of the contractor.

Excavated material, including suitable material that is intended for adjacent trench backfill or other earth backfill shall not be stored on public streets, roads, or highways that remain in service for the public. Any waiver of this requirement must be obtained from the proper local authority and approved by the engineer. All excess and unsuitable material shall be removed from the site as soon as possible. Any spillage shall be removed from roadways before they are used by the public.

Street Closures, Detours, and Barricades

Unless otherwise specified, the contractor shall notify in writing the public, appropriate public safety and government officials as may be appropriate no less than 7 days before starting construction, closing, partly closing, or reopening any street, road, or highway.

The contractor shall comply with the requirements of all applicable responsible units of government for closure of any street or road. The contractor shall provide the required traffic control methods, infrastructure, or public safety devices together with informing the public of any detours and construction hazards by the most suitable means available, such as local newspapers, letters, or radio stations. The contractor is also responsible for compliance with additional public safety requirements that may arise during construction. The contractor shall furnish, install, maintain and, upon completion

of the work, promptly remove all signs, warning devices, and other materials used in the performance of this work.

Unless otherwise specified, the contractor shall furnish to the engineer a written plan showing the proposed method of signing, barricading for traffic control, and safety for street detours and closures.

All temporary detours will be maintained to ensure use of public rights-of-way is provided in a safe manner. This may include dust control, grading, and graveling as specified in the construction plans.

General and Specific References

All signs, signals, barricades, use of flaggers, and other traffic control and public safety devices shall conform to the general requirements set forth in the Manual of Uniform Traffic Control Devices (MUTCD) and the latest edition of *Standard Highway Signs and Standard Alphabets for Highway Signs* and/or OSHA *Construction Industry Standards (29 CFR Part 1926), Subpart G, Signs, Signals, and Barricades*.

Measurement and Payment

For items of work for which specific lump sum prices are established in the contract, payment for the work is made at the contract lump sum price. Progress payments will be made based upon the percentage of estimated total time that traffic control will be required. Payment will constitute full compensation for all flaggers, labor, materials, equipment, and all other items necessary and incidental to completion of the work.

Compensation for any item of work described in the contract, but not listed in the bid schedule will be included in the payment for the item of work to which it is made subsidiary.

Pay Item:	Pay Unit
Traffic Control	Lump Sum

Source: National Engineering Handbook, Construction Specification 9 – Traffic Control (210–VI–NEH, January 2009)

ITEM 2: SLOPE AND EROSION PROTECTION STRUCTURES

Remove and replace NMDOT Specification Section 602.3.1, paragraphs 1 and 2 with the following:

The Contractor shall place riprap stones *by hand* on the surface and to the depth specified in the plans. The Contractor shall place large stones as close together as possible. The Contractor shall use smaller stones to fill the areas between the larger stones forming a continuous blanket in accordance with the Contract. Smaller rocks shall not be grouped as a substitute for larger rock. Unless otherwise specified, the Contractor shall construct rock plating using riprap Class G to minimum thickness of 12 inches. The contractor shall place stones with the long axis parallel to the toe of the slope, with a stable bearing upon the underlying soil or stones.

Memorandum

To: **MRGCD Chair Russo Baca and Board of Directors**
Jason Casuga, CEO/CE
Pam Fanelli, CFO

From: **Richard DeLoia, Chief Procurement Officer** *RD*
Casey Ish, Conservation Program Supervisor *CI*

Date: **December 5, 2023**

Re: **APPROVAL FOR CENTENNIAL DOCUMETARY CONTRACT**

MRGCD staff is requesting Contract approval for the Centennial Documentary for the Middle Rio Grande Conservancy District. The Contract was drafted by MRGCD staff and reviewed by the MRGCD Legal team.

VENDOR	TOTAL + NMGRT	GRAND TOTAL
ARACELY CHAPA **Professional Cinematographer**	**$153,115.00 +** **$11,675.02 tax**	**$164,790.02**

Film Production Agreement
Between
The Middle Rio Grande Conservancy District
And
Filmmaker Aracely "Arcie" Chapa

This Film Production Agreement is entered effective December, 11th , 2023 between Middle Rio Grande Conservancy District (MRGCD), (herein Client), P.O. Box 581, Albuquerque, NM 87103 and Arcie Chapa (herein Filmmaker) P.O. Box 40302, Albuquerque, NM 87110 for the production of a documentary tentatively titled "MRGCD Centennial Film" (the "Project") pursuant to the following terms and conditions:

Description of Project
This Project will be an hour-long film produced to commemorate the centennial anniversary and creation of the Middle Rio Grande Conservancy District. The film will feature the history and the present and future of the MRGCD as a land and water management entity. Filmmaker will use all available resources including, but not limited to: archival material and photos, interviews, graphics animation, and on location shooting.

Production Specifications
The Project will be produced in high definition, using both studio and on location recording techniques. Filmmaker will deliver to Client a master on external hard drive as well as all the raw footage used in the production of the film.

Budget and Payment Terms
The total budget for the production of the film is $164,790.02. Within fifteen (15) days of the execution of this Agreement, 25% percent of the budget ($41,197.51) shall be due and owing to Filmmaker for Pre-Production work. Filmmaker may issue invoices periodically to Client for various phases of the project including but not limited to "Trailer Production" "Production", and "Post Production". The balance of the budget shall be due within fifteen (15) days of final completion and delivery of all media to Client.

Ownership of Rights in Project
Client will be the sole owner of all rights in the completed project and will be responsible for securing a copyright to protect its interests against infringement. Unless Client decides otherwise Filmmaker will store a copy of the project on external hard drive or DVD in their respective archival libraries.

Credits
Client may submit a list of additional credits to be included in the completed film and Filmmaker shall include those credits in addition to the credits otherwise included by Filmmaker.

Right to enter Project in competitions
Both Filmmaker and Client will have the right to enter the Project in competitions for awards and film festivals anywhere in the world. However both should notify the other when submitting the film for awards.

Dealings with Third Parties.
Filmmaker will arrange for all permits, releases, licenses, national clearances for the use of copyrighted material, third party contracts, and similar matters, including but not limited to the

payment of fees and compensation, within the budget specified by Client. Filmmaker will not include any materials or sources in Project that might in any way interfere with distribution of the film or infringe on any standard copyrights.

Termination
Either party may terminate this Agreement on 10 days written notice to the other party at the address set forth at the beginning of this Agreement. If this Agreement is terminated by Client before the Project is completed, Client agrees to pay for all Project costs up to the date of termination and Filmmaker agrees to deliver to Client all Project work and media. If this Agreement is terminated by Filmmaker before the Project is completed, Client shall be entitled to all Project work and media completed through the date of termination.

New Mexico Tort Claims Act
The liability of Client shall be subject to the immunities and limitations of the New Mexico Tort Claims Act, Section 41-4-1 et seq., NMSA 1978, as amended.

Arbitration
Any disputes that may arise between Client and Filmmaker regarding the terms of this Agreement will be submitted to final and binding arbitration in accordance with the applicable state statutes.

Integration Clause
This document contains the Agreement between Client and Filmmaker and cannot be changed orally, but only by written agreement signed by both parties.

Governing Law
This Agreement will be governed by the laws of the State of New Mexico.

By:_____ Date:_____

Jason M. Casuga, P.E. / CEO

By: _____ Date: 11/30/2023

Aracely “Arcie” Chapa

Conservation Program
On-Farm Program (OFP) Projects

Middle Rio Grande Conservancy District

Board of Directors Meeting

December 11, 2023

On-Farm Program (OFP)

Program Overview

- 2021-2023 pilot-scale project initially funded with federal grant funds.

- MRGCD has largely capitalized on conservation improvements within our own right of way. This program focuses on "the other side of the fence" and how the District might realize additional, untapped water savings in the system. **This is a dramatic shift in how the MRGCD has historically supports our constituents.**

- Focused on improving individual farm irrigation infrastructure.
  - Installing High Capacity – Farm Delivery Pads
  - Repairing/improving farm ditches
  - Laser leveling
  - Other Delivery Control Structures

Program Objectives

- Increase individual field irrigation rates to at least 1 acre/hour (In compliance with MRGCD's Irrigation Policy)

- Develop an understanding of the cost benefit(s) associated with On-Farm infrastructure improvements as a financially viable tool for increasing water conservation in the MRGCD

This Farm Delivery Pad (FDP) is delivering a large volume of water to a pecan orchard in Albuquerque. The FDP allows for large quantities of water to be spread out over a large surface area before hitting the field. This "sheeting" of water reduces destructive erosion at the delivery site while maintaining the efficient irrigation rate and uniform spread of water across the field. Since installation, time to irrigate this 1.5-acre orchard has been reduced from several hours to ~45 minutes.

OFP Project #5

Project Description

- Existing turnout serves approximately **3.40** acres of alfalfa and pasture.
- **Lengthy** pipe system that expands from a **12” diameter** to a **15” diameter** pipe.
- Existing pipe size, pipe length and transition in diameter result in extremely inefficient irrigation to the property (**17 hours on average**).
- Proposed improvements aim to increase delivery rate of water to the field, create better uniformity of water distribution and reduce the time required to irrigate.

Proposed Solutions

- Installing a new dedicated turnout to the property to simplify the path of delivery.
- Upsizing from 12” diameter pipe to a 18” diameter pipe.
- Installing a farm delivery pad that will facilitate high-capacity flow without increasing erosion.
- These upgrades will result in a delivery time of approximately 2.26 hours to irrigate all 3.40 acres.

		cfs = af				
	Current AF/YR Estimate	1.983	AF/Day	AF/Hour	AF/Event	Annual AF Estimate
CFS	3.09		6.13	0.26	4.34	43.40
# IRRIGATION EVENTS	10					
Hr/Event	17					
		cfs = af				
	Improved AF/Year Estimate	1.983	AF/Day	AF/Hour	AF/Event	Annual AF Estimate
CFS	6.94		13.8	0.57	1.30	12.96
# IRRIGATION EVENTS	10					
Hr/Event	2.26					

		Current	Upgraded
Estimated AF/YR Savings	30.44		
AF/YR Per Acre Application		12.77	3.81
AF/A/Event		1.28	0.38

Improvements

- Hr/Event rate will be reduced from 17 to 2.26 after improvements.
- These upgrades will result in an estimated savings of 30.44 AF/YR.
- Will help free up the Hathaway Lateral.

Stephanie Russo Baca Board Reports 12.11.23

Report on the Conservation Advisory Committee Meeting, November 16, 2023.

Topics for Discussion

Current Hydrology Update – Ashley Veihl – Water Resources Specialist

Del Norte (San Luis Valley) –320 cfs (September) – 232 (October) – 155 (November)

Lobatos (NM/CO State Line) –126 cfs (September) – 112 (October) – 73 (November)

La Puente (Chama)– 54 cfs (September) – 37 (October) – 34 (November)

Below Abiquiu (Chama)– 1,190 cfs (September) – 985 (October) – 1,100 (November)

Otowi (Main Stem)– 1,370 cfs (September) – 1,290 (October) – 1,530 (November)

Below Cochiti–304 cfs (September) – 310 (October) – 1,320 (November)

Bosque Farms–28 (September) – 43 (October) – 1,190 (November)

Narrows (Just above EB)– 72 (September) – 37 (October) – 1,540 (November)

Irrigation of P&P land ended on the 15th of November.

On-Farm Program Updates – Jose Contreras – Ag. Irrigation Specialist

• Update on OFP5 (Quote for construction has been received), waiting on landowner approval to proceed.

• Exploring 3D printing options for lowering the cost of constructing Farm Delivery Pads

• Awaiting an installation quote from a manufacturer of HDPE canal lining product (likely less expensive than concrete or pipe).

2023 EWLP Deliveries – Ray Hartwell & Ashley Veihl

• Combined Credit of 3,612 AF in the EWA/SWA as of October 31st (End of Season)

• Combined Debit of (3,609) AF in the EWA/SWA as of October 31st (End of Season)

• Remaining Balance of 3 AF – 99.9% of water leased was used this year. Remaining Balance does not carry over to 2024.

2024 Irrigation Demand Management-Environmental Water Leasing Program Update (IDMEWLP) – Ray Hartwell and Ashley Veihl

• Joint effort by MRGCD and New Mexico's Office of the State Engineer to generally reduce irrigation demand temporarily (2024-2025) while also continuing to lease water for the Strategic Outfalls.

• Enrollment will open Nov. 27th and run through February 16th.

• Program is Voluntary

• Prices are still being finalized but will not exceed $400/Ac for Partial Season and

$700/Ac for Full Season.

• Acreage Cap is 8,000 acres.

Outfall Project Updates – Ashley Veihl, Paul Tashjian, Tucker Davidson, Todd Caplan

• New Belen Outfall – Flushing of Backwater Channel

• San Francisco Outfall – Modification of existing channel deflectors, excavation of

floodplain terraces, flushing activities to be carried out next week.

Storey Wasteway OCS Update – Ashley Veihl

Project is currently being advertised for Bid.

Harvest Reports

Opportunity to hear from the multiple farmers on the Advisory Committee on how respective harvests are going for the season and plans for 2024.

Report on the NM Acequia Association Congreso de las Acequias, November 17-18, 2023.

This important event was held in Taos, NM and had a large turnout from acequias all over New Mexico including La Joya and others in the Middle Rio Grande Valley. The history of the MRGCD was highlighted in the film, Acequias: The Legacy Lives On.

Report on the NM Northern Wetlands Roundtable, November 29, 2023.

The Roundtable is organized by the NMED Surface Water Quality Bureau Wetlands Program, Maryann McGraw, NMED Wetlands Program.

This virtual event had many important presentations on a multitude of topics by a variety of entities including: Surface Water Quality Permit Primacy, Landscape Planning, U.S. Army Corps of Engineers Regulatory Update, Implementing The 2023 Water Security Planning Act - A Vehicle for Collective Action to Transform New Mexico Water Governance, Federal Funding Opportunities to Support Wetland Protection & Restoration.

Report on the Socorro Farmers Irrigators Meeting, November 30, 2023.

This was a well-attended meeting my both MRGCD staff, board members, as well as farmers and community members in Socorro county. There were many questions asked and answered about the upcoming irrigation season as well as the off-season maintenance of the Socorro Division.

MRGFCA Annual Breakfast, December 5, 2023.

Many great presentations from members of the Mid Rio Grande Flood Control Association. Many if not all, have partnerships with MRGCD. It was great to hear about the many ongoing projects happening the Middle Valley and along the Rio Grande. Jason Casuga, presented about the history of the MRGCD and the ongoing projects.

Valencia County Commission Meeting, December 6, 2023.

The Valencia County Commission had their regular business meeting as well as tree lighting ceremony. At MRGCD we are trying to continue our partnerships with all of the counties in the district, including Valencia County.

Village of Los Lunas Council Meeting, December 7, 2023.

The hot topic issue item on the agenda is "Item 1. AMENDED WATER AGREEMENT WITH NIAGARA BOTTLING ALLOWING NIAGARA BOTTLING TO EXPAND ITS PRODUCTION CAPABILITIES. TAB 1. ACTION REQUESTED OF COUNCIL: Approve or disapprove. BACKGROUND AND RATIONALE: On February 23, 2017, the Village and Niagara Bottling entered into an amended agreement for the provision of water and wastewater services to Niagara Bottling by the Village. That Agreement provides that Niagara would be a regular customer of the Village water and wastewater services. In the February 23, 2017, Agreement, the Village agreed to supply Niagara up to 285 AFY of water. In order for the Village to supply Niagara Bottling with the amount of water as stated in the Agreement, Niagara Bottling transferred water rights it leased from PNM into the Village's wells. Niagara Bottling has requested to expand its plant and is requesting the Village agree to provide up to 782 AFY of water to them. An analysis of this request and its impact on the Village water and wastewater system. Niagara has secured these additional water rights with a lease from PNM through February 28, 2028."

There was a motion made by the council to table the item above after almost two hours of discussion. There was also a comment made by a council member that MRGCD's ad valorem tax structure is outdated and that there is "no benefit" to landowners that do not irrigate. The council took a short break and then reconvened to continue discussion on water use and ordinance 488 Impact Fees.