# 9.0 PRIORITIZATION

As shown in Section 8.0, the SMP identified 99 projects with a total estimated cost of over $550 million. The next task was to develop a method for prioritizing the projects so that they could eventually be scheduled into a CIP. The prioritization was then validated by the CAC.

The first task of the prioritization process was to identify the major concerns associated with the stormwater management. EPWU identified the major concerns to be addressed by the stormwater improvements as:

- Reduce flooding of real property;
- Reduce flooding of IH-10;
- Reduce the risk associated with debris flow;
- Reduce flooding of major arterial roadways;
- Reduce maintenance; and
- Reduce nuisance flooding.

The flooding of real property associated with each individual project was estimated using existing FEMA floodplain maps. This study did not include validation of existing floodplains or formal delineation of new floodplains or formal delineation of new floodplains in currently unmapped areas of the City (i.e. areas without a floodplain on current FEMA-maintained regulatory maps).

A weighting factor was then developed for each of the criteria based on their relative importance. The weighting factors are shown in the following Table 9-1:

**Table 9-1. Weighting Factors**

| Flooding Criteria | Weighting Factor |
|---|---|
| Reduce flooding of real property | 4 |
| Reduce flooding of IH-10 | 4 |
| Reduce the risk associated with debris flow | 3 |
| Reduce flooding of major arterial roadways | 3 |
| Reduce maintenance | 2 |
| Reduce nuisance flooding | 1 |

Each project was then assigned a score of 1-5 (with 5 being the highest) on the ability of the project to effectively address each of the criteria. A total weighted score was then calculated for each project.

The total weighted scores can be used as a method for establishing a relative priority among the projects but should not be considered an absolute ranking. The total

weighted scores were used to assign a relative priority of the projects ranging from Priority A (the highest) to Priority D (the lowest). Any project associated with a regulatory dam issue was assigned a Priority A. This prioritization resulted in the following distribution of projects listed in Table 9-2.

**Table 9-2. Priority Summary**

| | Priority A | Priority B | Priority C | Priority D |
|---|---|---|---|---|
| Number of Projects | 27 | 11 | 38 | 23 |
| Total Cost of Projects | $145,761,000 | $159,069,000 | $190,435,000 | $59,658,000 |

All of the projects listed by priority are shown in Table 9-3.

## Table 9-3. Prioritized List of Projects

| Region | System | Project Number | Issue to be addressed | Description of Improvements | Total Cost | CIP Priority |
|---|---|---|---|---|---|---|
| Central | Government Hills | CE1 | Multiple street intersections along Government Hills Channel do not have sufficiently sized drainage inlets. Undersized inlets restrict water from entering the channel and contribute to localized flooding at the crossings. | Expand the street inlets at Altura, Hastings, Cambridge and Cumberland to allow street flow to enter the channel without flooding surrounding properties. | $850,000 | A |
| Central | Government Hills | CE2 | Multiple culverts along Government Hills Channel are undersized and contribute to channel flooding in localized areas. | Enlarge culverts at Cambridge, Cumberland, Chester and Trowbridge to increase the overall capacity of the Government Hills Channel to convey the 100-year storm. | $2,060,000 | A |
| Central | Cebada | CE4 Phase 1 | Conveyance problems through Cebada Reservoir and Magnolia systems cause major flooding on IH-10 and on Cebada Road. | Clearing and relocating of existing utilities in Cebada Outfall Conduit (In Progress). Expansion of Magnolia Reservoir (In Progress). Construct Copia Street Pond. | $4,740,000 | A |
| Central | Cebada | CE4 Phase 2 | Conveyance problems through Cebada Reservoir and Magnolia systems cause major flooding on IH-10 and on Cebada Road. | Magnolia storm drains, Pump Station and Force Main to Rio Grande. | $24,739,000 | A |
| East | Lomaland Basin | EA7 Phase 1 | Runoff flooding streets because it does not enter Jesuit Basin effectively. | Addition of 36-inch RCP, 48-inch RCP, 60-inch RCP and 10-foot by 4-foot CBC storm drain system to capture flows from residential and commercial areas before flooding at Lee Trevino and James Watt. | $11,244,000 | A |
| Mission Valley | Basin G | MV5 Phase 1 | The current configuration and capacity of Basin G is causing tailwater to significantly restrict the capacity of the major drains and Interceptor System in Mission Valley. There is a need for additional storage in Basin G. | Excavate existing Basin G area to a depth of 20 feet, replace the undersized crossings at Carl Longuemare and Southside, and re-grade the Franklin Drain Interceptor so that water will flow to the basin from both the Playa Drain and the Interceptor System. | $6,236,000 | A |
| Northwest | Doniphan Ditch | NW1 | This section of Doniphan Ditch is severely undersized with undersized crossings. | Increase the capacity of three culvert crossings. Increase the capacity of the channel to detain some volume. Grade the section north of Sunset Drive to drain to White Spur Drain. | $2,150,000 | A |
| Central | Government Hills | Van Buren Dam | Van Buren Dam - Upgrade | Improve Van Buren Dam per Work Order 3, Task 4 Report. | $2,517,000 | A |
| Northeast | Northeast Ponding | NE7 Phase 2 | Northeast Channel No. 2 is significantly undersized (<10-year) with undersized crossings and serious erosion problems. | Expansion and lining of remaining channel. | $9,513,000 | A |
| Mission Valley | Mesa Drain Upstream and Downstream | MV10 | Mesa Drain is significantly undersized. | Expand Mesa Drain 20 feet in width on the south side of the channel where feasible. Also, line portions of channel with concrete that cannot be expanded and line 20 feet upstream of all crossings with concrete. | $6,262,000 | A |

## Table 9-3. Prioritized List of Projects (Continued)

| Region | System | Project Number | Issue to be addressed | Description of Improvements | Total Cost | CIP Priority |
|---|---|---|---|---|---|---|
| Northwest | Doniphan Ditch | NW2 | This section of Doniphan Ditch has five undersized crossings and the channel is undersized. There is a known sediment issue. | Increase the capacity of three culvert crossings and two bridge. Increase the capacity of the channel to detain some volume. Construct a sediment basin. | $5,192,000 | A |
| Central | Dallas | Dam 9 Upgrade | Dam No. 9 has CMP pipe outlet. | Replace CMP principal spillway on Dam No. 9. | $300,000 | A |
| Northwest | West Central | Keystone Dam Upgrade | Keystone Dam - Upgrade. | Stabilize downstream slope with toe-drain and berm. | $540,000 | A |
| Northeast | Range Dam | NE8 Phase 1 | 1. Flooding on Fairbanks Drive.<br>2. High sediment load from Castner Range. | Construction of sediment. Improve US 54 culvert outlet. | $2,836,000 | A |
| Northwest | Oxidation Dam | NW20 | Spring Crest Channel has identified upstream debris and sediment sources. | There is an existing debris/sediment basin. Would need maintenance permit or easement. | $659,000 | A |
| West Central | West Central | WC1 | Canterbury Channel has an identified upstream debris source. | Construct a debris basin. | $375,000 | A |
| West Central | West Central | WC2 | Flow Path No. 20 has identified upstream debris sources. There are two undersized culverts. | Construct two debris/detention basins. | $4,379,000 | A |
| Mission Valley | Basin G | MV3 | The Middle Drain is contributing flow to the Mesa Drain Interceptor causing capacity and tailwater issues. There is need for additional storage along the Interceptor System in Mission Valley. | Excavate the City-owned Feather Lake II property and divert all flow from the Middle Drain to it via conduit. Install a small pump station at basin. Flow back into the Mesa Drain Interceptor from the basin will be controlled by automatic gates. | $10,724,000 | A |
| Central | Government Hills | CE3 | The Government Hills System consists of a 90-inch pressurized conduit that outfalls into the Rio Grande. The design capacity is 375 cfs but has been reduced to 50 cfs. | The Government Hills System will be modified to reflect as built conditions. This will enable the system to remain pressurized from Boone Street Basin to the Rio Grande. The flow through the 90-inch conduit will increase from a current capacity of 50 cfs. | $6,672,000 | A |
| Central | | Flood Early Warning System | Potential flooding. | Provide early warning. | $200,000 | A |
| Northeast | Fort Bliss Sump | NE3 Phase 1 | 1. Tobin Drain is significantly undersized with the exception of the far downstream end.<br>2. Crossing capacities are well below the 10-year flow. | Expansion of channel from Alps to Hollings.<br>Construction of new portion of Tobin Drain parallel to Hollings from Hollings to Hondo Pass.<br>Replacement of three crossing structures. | $7,595,000 | A |

## Table 9-3. Prioritized List of Projects (Continued)

| Region | System | Project Number | Issue to be addressed | Description of Improvements | Total Cost | CIP Priority |
|---|---|---|---|---|---|---|
| Northeast | Fort Bliss Sump | NE3 Phase 2 | 1. Tobin Drain is significantly undersized with the exception of the far downstream end.<br>2. Crossing capacities are well below the 10-year flow. | Expansion of the portion of Tobin Drain from Wren to Alps. Expansion and lining of Tobin Drain from Sanders to Wren. Replacement of two crossing structures. | $10,210,000 | A |
| Central | Dallas | Upgrade Dam 7 | Dam crest is estimated to overtop at slightly greater that 100-year flood | Increase dam crest or improve spillway (TBD). | $500,000 | A |
| West Central | West Central | WC8 | Paragon Channel has an identified upstream debris source. | Construct a debris basin. | $687,000 | A |
| Central | Dallas | CE5 Phase 1 | The Dallas Reservoir does not properly discharge flow into the Rio Grande when river levels are high. This causes a back up and flooding occurs along the system at multiple locations. | Add a 115 cfs pump station which discharges into a new 42-inch force main running parallel to the existing eastern discharge conduit at Dallas Reservoir. Sever tie-ins of eastern discharge conduit to Line D and Cebada System and construct an extension of the line from the point where the tie-in to the Cebada System was severed. 50-year protection. | $19,290,000 | A |
| Central | Cebada | CE4 Phase 3 | Conveyance problems through Cebada Reservoir and Magnolia systems cause major flooding on IH-10 and on Cebada Road. | Railroad Pond and Concrete-lined channel from Cebada to RR Pond. | $7,407,000 | A |
| Central | Dallas | CE5 Phase 2 | The Dallas Reservoir does not properly discharge flow into the Rio Grande when river levels are high. This causes a back up and flooding occurs along the system at multiple locations. | Increase capacity of pump station from 115 cfs to 370 cfs. | $7,728,000 | A |
| East | Americas Ten Basin | EA10 Phase 1 | Undersized crossings, unfinished earthen channels, and sediment transfer clogging culverts. | Build sediment/detention basin upstream of Paseo del Este Drive. | $4,642,000 | B |
| East | Americas Ten Basin | EA9 Phase 1 | Undersized crossings, unfinished earthen channels, and sediment transfer clogging culverts. | Build sediment/detention basin upstream of Paseo del Este Drive. | $5,769,000 | B |
| Mission Valley | Basin G | MV4 | The Franklin Drain is contributing flow to the Middle Drain Interceptor causing capacity and tailwater issues. There is a need for additional storage along the Interceptor System in Mission Valley. | Create a detention basin along the Middle Drain Interceptor and divert flow from the Franklin Drain to it via conduit. Install a small pump station at basin. Flow back into the Middle Drain Interceptor from the basin will be controlled by automatic gate. | $16,203,000 | B |

## Table 9-3. Prioritized List of Projects (Continued)

| Region | System | Project Number | Issue to be addressed | Description of Improvements | Total Cost | CIP Priority |
|---|---|---|---|---|---|---|
| Mission Valley | Basin G | MV5 Phase 2 | The current configuration and capacity of Basin G is causing tailwater to significantly restrict the capacity of the major drains and Interceptor System in Mission Valley. There is a need for additional storage in Basin G. | Upgrade the existing pump station at Basin G by installing new pumps (820 cfs capacity total) and installing new conduits to the Rio Grande River. | $27,038,000 | B |
| Mission Valley | Basin A | MV6 | There are flooding issues on Alameda Drive (SH 20) between Paisano Drive and El Paso Drive. | Install a storm drain system along the affected area of Alameda Drive that empties into Playa Drain just north of the intersection with Delta Drive. | $42,879,000 | B |
| Mission Valley | Mesa Drain Downstream | MV9 | The elevation of the channel banks along the lower portion of Mesa Drain is preventing the top portion of the Feather Lake capacity from being utilized. | Construct a parapet wall along both sides of Mesa Drain from Le Barron Rd to Feather Lake to raise the channel bank elevation. | $4,777,000 | B |
| Northeast | Fort Bliss Sump | NE3 Phase 3 | 1. Tobin Drain is significantly undersized with the exception of the far downstream end.<br>2. Crossing capacities are well below the 10-year flow. | Expansion of Tobin Drain from Threadgill to Sanders. Replacement of one crossing structure. | $6,412,000 | B |
| Northeast | Northeast Ponding | NE7 Phase 4 | Northeast Channel No. 2 is significantly undersized. | Construction of detention with Phase 2 sediment basin. | $15,416,000 | B |
| Northeast | Range Dam | NE8 Phase 2 | Flow in Fairbanks Drive bypasses the entrance to Electric Ditch Channel resulting in downstream flooding. | Construction of cross sectional inlets. | $1,350,000 | B |
| Northwest | Montoya Drain | NW13 | North section of Montoya Drain has eight undersized crossings. | Increase capacity of eight culverts. | $3,814,000 | B |
| West Central | West Central | WC6 | For the upper portion of Flow Path No. 23, the channel and six culverts are undersized. There is an identified upstream sediment source. | Increase the capacity of two CBCs culverts. Construct one low water crossing. Construct a storm drain system to bypass the undersized portion of the channel and three culverts. | $20,925,000 | B |
| Central | Dallas | Dam 10 Upgrade | Dam No. 10, Memphis Avenue Dam. | Improve Dam No. 10 per Work Order 3, Task 4 Report. | $834,000 | C |
| Central | Cebada | Dam 4 Upgrade | Dam No. 4, Memphis Avenue Dam - Upgrade. | Improve Dam No. 4 per Work Order 3, Task 4 Report. | $1,050,000 | C |
| Central | Cebada | Dam 5 Upgrade | Dam No. 5, Memphis Avenue Dam - Upgrade. | Improve Dam No. 5 per Work Order 3, Task 4 Report. | $838,000 | C |
| East | Phelps Dodge | EA1 Phase 1 | Undersized culvert crossings, street flows travel too far over flat slopes causing flooding. | Culverts: Two 8-foot by 4-foot CBC at Edgemere Boulevard/Airway Avenue and two 8-foot by 4-foot CBC at Edgemere Boulevard/Robert E. Lee Crossing; remove french drain at Railroad Crossing and connect concrete channel. | $1,215,000 | C |

## Table 9-3. Prioritized List of Projects (Continued)

| Region | System | Project Number | Issue to be addressed | Description of Improvements | Total Cost | CIP Priority |
|---|---|---|---|---|---|---|
| East | Phelps Dodge | EA1 Phase 2 | Undersized culvert crossings, street flows travel too far over flat slopes causing flooding. | Add storm drain system including 48-inch RCP, 60-inch RCP, and 8-foot by 4-foot CBC. | $6,490,000 | C |
| East | Phelps Dodge | EA5 Phase 1 | Street flows flooding at Interstate crossing. | Add to existing storm drain system to increase capacity and reduce street and commercial flooding by getting flows to Giles Basin Dam more effectively. | $9,074,000 | C |
| East | Lomaland Basin | EA6 Phase 1 | Street flows travel too far over flat slopes causing flooding, street closures and damage. | Storm drain system consisting of 48-inch RCP to 66-inch RCP, 7-foot by 4-foot CBC, 9-foot by 5-foot CBC, and 10-foot by 5-foot CBC to handle flows from surrounding residential areas. | $15,590,000 | C |
| East | Lomaland Basin | EA6 Phase 2 | Street flows travel too far over flat slopes causing flooding, street closures and damage. | Storm drain system consisting of 66-inch RCP and 9-foot by 5-foot CBC to handle flows from surrounding residential areas. | $10,353,000 | C |
| East | Lomaland Basin | EA6 Phase 3 | Street flows travel too far over flat slopes causing flooding, street closures and damage. | Storm drain system consisting of 60-inch RCP and 7-foot by 4-foot CBC to handle flows from surrounding residential areas. | $5,177,000 | C |
| East | Lomaland Basin | EA6 Phase 4 | Street flows travel too far over flat slopes causing flooding, street closures and damage. | Storm drain system consisting of 54-inch RCP, 66-inch RCP and 7-foot by 4-foot CBC to handle flows from surrounding residential areas. | $6,197,000 | C |
| East | Lomaland Basin | EA6 Phase 5 | Street flows travel too far over flat slopes causing flooding, street closures and damage. | Storm drain system consisting of 48-inch RCP and 60-inch RCP to handle flows from surrounding residential areas. | $2,717,000 | C |
| East | Lomaland Basin | EA7 Phase 2 | Runoff flooding streets because it does not enter Jesuit Basin effectively. | Addition of 54-inch RCP and 8-foot by 5-foot CBC storm drain system to capture flows from residential and commercial areas before flooding at Kaiser Dr and Gateway West. | $6,434,000 | C |
| East | Lomaland Basin | EA7 Phase 3 | Runoff flooding streets because it does not enter Jesuit Basin effectively. | Addition of 36-inch RCP, 42-inch RCP and 48-inch RCP storm drain system to capture flows from residential and commercial areas before flooding at Bessemer Dr and Lee Trevino. | $4,343,000 | C |
| East | Americas Basin | EA8 Phase 2 | Runoff from surrounding commercial areas flooding streets because of ineffective routing to Bluff Channel. | Addition of 24-inch RCP to 60-inch RCP storm drain system added to surrounding commercial lots and streets to prevent flooding in Zaragosa Road and George Dieter Drive and also IH-10 George Dieter intersection. | $8,422,000 | C |
| East | Americas Basin | EA8 Phase 1 | Runoff from surrounding commercial areas flooding streets because of ineffective routing to Bluff Channel. | Increase size of Bluff Channel to a 20-foot bottom width from Rojas Dr to Esther Lama Dr and upgrade crossing at Esther Lama Dr to three 10-foot by 5-foot CBCs. | $5,926,000 | C |
| Northeast | Fort Bliss Sump | Keltner Dam Upgrade | Keltner Dam - Upgrade. | Improve Keltner Dam per Work Order 3, Task 4 Report. | $720,000 | C |

## Table 9-3. Prioritized List of Projects (Continued)

| Region | System | Project Number | Issue to be addressed | Description of Improvements | Total Cost | CIP Priority |
|---|---|---|---|---|---|---|
| Mission Valley | Basin A | MV1 | The pump station at Basin A does not have capacity for the 100-year storm event. Additional flow is contributed back into the Playa Drain. | Upgrade the existing pump station at Basin A by installing new pumps (525 cfs total capacity). | $19,076,000 | C |
| Mission Valley | Basin A | MV2 Phase 1 | Basin B currently serves as detention storage for the upper portion of the Playa Drain and the neighborhoods surrounding the basin. | Install a new pump station (165 cfs total capacity) and conduit in the portion of Basin B west of Mimosa Avenue to pump water to the Rio Grande River. Excavate and regrade the slope in Basin B so that water flows to the pump station. Install new culverts | $10,413,000 | C |
| Mission Valley | Basin A | MV2 Phase 2 | Basin B currently serves as detention storage for the upper portion of the Playa Drain and the neighborhoods surrounding the basin. | Expand pump station by installing an additional 165 cfs pump and conduit. | $6,023,000 | C |
| Mission Valley | Basin G | MV8 | Basin C is currently serving as a detention area for water from surrounding neighborhoods. After leaving the basin, water enters the Playa Drain where it contributes to the capacity problems of the drain. | Install a new pump station (160 cfs total capacity) and conduits at Basin C to pump water from the basin to the Rio Grande River. Excavate the basin so it is three feet below the channel elevation of Playa Drain. Install new culverts under Independence Drive. | $10,741,000 | C |
| Northeast | Fort Bliss Sump | NE1 | The following crossings on Railroad Channel are undersized:<br>Falcon Avenue (one 18-inch RCP)<br>Waycross Avenue (one 12-inch RCP)<br>Wren Dr (one 18-inch RCP)<br>Lexington Dr (one 18-inch RCP)<br>Crossing S. of Falcon Avenue (one 12-inch RCP) | Replacement of five crossing structures. | $922,000 | C |
| Northeast | Fort Bliss Sump | NE4 | 1. The following crossing on Range Dam Outlet Channel is undersized (<10-year):<br>Raymond Telles Drive (one 2-foot by 2-foot CBC).<br>2. Downstream junction of Range Dam Outlet Channel and Tobin Drain Channel identified by EPWU as issue and thus included in cost table. | Remove and replace undersized crossing and modify downstream junction. | $1,430,000 | C |
| Northeast | Northeast Ponding | NE7 Phase 3 | Northeast Channel No. 2 has high sediment loads due to large upstream deposits. | Construction of sediment basin. | $7,933,000 | C |

## Table 9-3. Prioritized List of Projects (Continued)

| Region | System | Project Number | Issue to be addressed | Description of Improvements | Total Cost | CIP Priority |
|---|---|---|---|---|---|---|
| Northeast | Range Dam | NE9 | Flooding and erosion issues at the intersection of Hondo Pass Avenue and Hondo Pass Drive due to flow from Northgate Diversion Channel. | Installation of pipes to convey flow to Northgate Dam. | $736,000 | C |
| Northwest | Montoya Drain | NW12 | Northern section of Doniphan Ditch is undersized. | Increase the capacity of the channel. | $151,000 | C |
| Northwest | Montoya Drain | NW14 | Mid section of Montoya Drain has three undersized culverts and the channel is undersized. | Increase the capacity of three culvert crossings. Increase the capacity of the channel to detain some volume. | $3,595,000 | C |
| Northwest | Montoya Drain | NW16 | East extent of White Spur Drain is undersized. | Increase channel capacity. May need a storm drain system due to limited ROW. | $758,000 | C |
| Northwest | Montoya Drain | NW17 | White Spur Drain has two undersized crossings. | Increase capacity of crossings. | $391,000 | C |
| Northwest | Oxidation Dam | NW18 | Mesa Hills Channel has known sediment/debris issues. | Purchase and enhance existing debris/sediment basin. | $521,000 | C |
| Northwest | Vinton | NW22 | The lower portion of Flow Path No. 45A has six undersized culverts and the channel is undersized. | Increase the capacity of the two culvert crossings and the channel in the residential area only. | $809,000 | C |
| Northwest | Vinton | NW24 | The mid portion of Flow Path No. 45 has four undersized crossings and the channel is undersized. | Increase the capacity of the four crossings and the channel. | $3,217,000 | C |
| Northwest | Vinton | NW21 | For the upper portion of Flow Path No. 45A, the roadway serves as the channel and does not contain the flow. | Construct a diversion channel to FP 45 and a sediment/detention basin on FP 45. | $21,812,000 | C |
| Northwest | Vinton | NW25 | For the upper portion of Flow Path No. 45, the channel is undersized and there is identified upstream sediment source. | The detention/sediment basin is to be constructed as part of NW21. Increase the capacity of the channel based on the outflow from the detention basin. | $120,000 | C |
| Northwest | Doniphan Ditch | NW3 | Pump station outlet pipes discharges to Keystone Dam outlet conduit. | Install conduits that discharge to Doniphan Ditch. | $232,000 | C |
| Northwest | Flow Paths | NW4 | Flow Path No. 38 has three undersized crossings. | Increase the capacity of three culvert crossings. | $458,000 | C |
| Northwest | Flow Paths | NW5 | Flow Path No. 39A has one undersized crossing and historical blow out of berm redirecting flow. | Create sediment/detention upstream to reduce peak flow at divergence point. Concrete line 90-degree bend in channel. | $10,850,000 | C |
| Northwest | Keystone Dam | NW7 | Arroyo 4 has four undersized crossings. | Construct detention basin, increase capacity of four culvert crossings. | $3,027,000 | C |
| Northwest | Keystone Dam | NW8 | Arroyo 5 has one undersized crossing. | Increase capacity of one long culvert. | $1,900,000 | C |

## Table 9-3. Prioritized List of Projects (Continued)

| Region | System | Project Number | Issue to be addressed | Description of Improvements | Total Cost | CIP Priority |
|---|---|---|---|---|---|---|
| East | Americas Ten Basin | EA10 Phase 2 | Undersized crossings, unfinished earthen channels, and sediment transfer clogging culverts. | Concrete line channels below proposed sediment/detention basin and concrete line earthen channels between concrete sections. | $1,424,000 | D |
| East | Phelps Dodge | EA2 | Undersized culvert crossing. | Construction of sediment basin. | $653,000 | D |
| East | Phelps Dodge | EA3 Phase 1 | Undersized channel and flooding problems upstream of channel. | Increase channel capacity down to retention basin. | $792,000 | D |
| East | Phelps Dodge | EA3 Phase 2 | Undersized channel and flooding problems upstream of channel. | Add storm drain system within streets to reduce street flooding issues. | $4,043,000 | D |
| East | Phelps Dodge | EA4 | Street flows travel too far over flat slopes causing flooding, street closures and damage. | Storm drain system consisting of 54-inch RCP and 66-inch RCP. | $8,999,000 | D |
| East | Phelps Dodge | EA5 Phase 2 | Street flows flooding at Interstate crossing. | Add new storm drain system to reduce street by getting flows to Giles Basin Dam more effectively. | $3,158,000 | D |
| East | Americas Ten Basin | EA9 Phase 2 | Undersized crossings, unfinished earthen channels, and sediment transfer clogging culverts. | Concrete line channels below proposed sediment/detention basin and concrete line earthen channels between concrete sections. | $2,026,000 | D |
| Mission Valley | Basin G | MV7 | The following crossing on Playa Drain is undersized: Just downstream of Yarbrough Drive (one 36-inch RCP). | Remove the undersized culvert and replace it with a culvert having the same capacity as the upstream cross section. The replaced culvert will not interfere with the channel width or road surface elevation. | $95,000 | D |
| Northeast | Fort Bliss Sump | NE2 | The following crossing on Railroad Channel Downstream is undersized: east of Julian Drive (five 8-foot by 4-foot CBCs). | Replacement of one crossing structure. | $402,000 | D |
| Northeast | Fort Bliss Sump | NE5 | 1. The following crossings on Clearview Channel are undersized (<10-year): Morningside Circle (three 36-inch CMPs) and Byron Drive (three 36-inch CMPs).<br>2. There is a sediment problem in the upstream portion of Clearview Channel. | Replace two crossing structures and construct new sediment basin. | $1,686,000 | D |
| Northeast | Fort Bliss Sump | NE6 | 1. Erosion along Lincoln Avenue due to flows in the downstream portion of Johnson Channel.<br>2. One undersized crossing was identified on Johnson Channel. | Construct new retention basin. | $521,000 | D |
| Northwest | Keystone Dam | NW10 | Ridge View Channel has two undersized crossings. | Increase capacity of two box culverts. | $564,000 | D |

## Table 9-3. Prioritized List of Projects (Continued)

| Region | System | Project Number | Issue to be addressed | Description of Improvements | Total Cost | CIP Priority |
|---|---|---|---|---|---|---|
| Northwest | Keystone Dam | NW11 | Ojo De Agua Arroyo has three undersized crossings. Identified upstream sediment source. | Increase capacity of three box culverts. Construct sediment basin. | $1,947,000 | D |
| Northwest | Montoya Drain | NW15 | Lower section of Montoya Drain has three undersized culverts and the channel is undersized. This section of the drain is in New Mexico. | Increase the capacity of three culvert crossings. Increase the capacity of the channel to detain some volume. | $4,590,000 | D |
| Northwest | Oxidation Dam | NW19 | Silver Springs Channel has identified upstream sediment source. | Construct detention basin or dam. | $4,905,000 | D |
| Northwest | Vinton | NW23 | The lower portion of Flow Path No. 45 has three undersized crossings. | Increase the capacity of three crossings. | $3,288,000 | D |
| Northwest | Flow Paths | NW6 | Flow Path No. 40 has one undersized crossing and part of channel undersized. Identified upstream sediment and debris source. | Increase culvert Size and construct a debris basin. | $3,525,000 | D |
| Northwest | Keystone Dam | NW9 | High Ridge Channel has two undersized crossings. | Increase capacity of two box culverts. | $1,409,000 | D |
| Central | Government Hills | Pershing Dam Upgrade | Pershing Dam - Upgrade. | Improve Pershing Dam per Work Order 3, Task 4 Report. | $670,000 | D |
| West Central | West Central | WC3 | The lower portion of Flow Path No. 20 has an undersized culvert and channel. | Increase capacity of channel and crossing. | $2,923,000 | D |
| West Central | West Central | WC4 | Flow Path No. 21 has one undersized crossing. | Increase the capacity of the Mesa Street crossing. The other crossing is a low water crossing. | $7,246,000 | D |
| West Central | West Central | WC5 | The lower portion of Flow Path No. 21 has an undersized culvert and channel. | Increase crossing and channel capacity. | $2,907,000 | D |
| West Central | West Central | WC7 | The lower portion of Flow Path No. 23 has three undersized culverts and discharges to Americas Canal. | Increase capacity of three crossings. | $1,825,000 | D |