

# **TEN-YEAR CONSTRUCTION PROGRAM**

## **REGIONAL FLOOD CONTROL DISTRICT**



**FISCAL YEAR 2020  
THROUGH  
FISCAL YEAR 2029**

**STEVEN C. PARRISH, P.E.  
GENERAL MANAGER/CHIEF ENGINEER**

**ADOPTED  
JUNE 13, 2019**

**CLARK COUNTY REGIONAL FLOOD CONTROL DISTRICT**

**TEN-YEAR CONSTRUCTION PROGRAM**

**FISCAL YEAR 2020**

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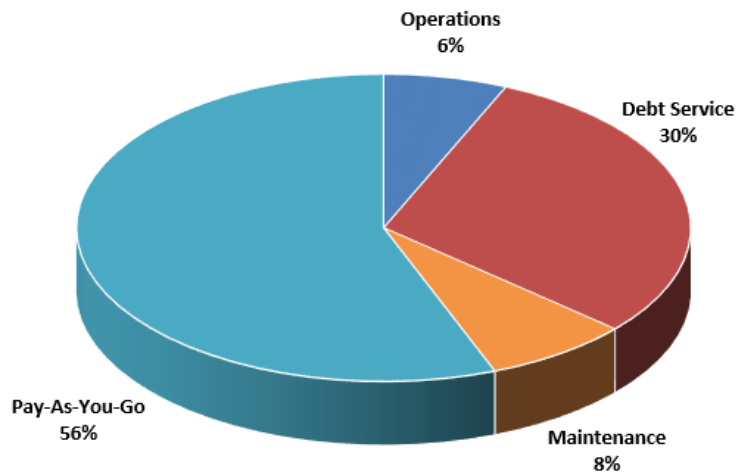
**ADOPTED JUNE 13, 2019**

## Capital Improvement Program

The District staff maintains a listing of projects proposed for funding in the next ten-year period. The Ten-Year Construction Program (TYCP) is updated annually and is approved by the Board after review by the Technical and Citizens Advisory Committees. In addition to the TYCP, the District's Chief Engineer with assistance, cooperation and approval of the Technical Advisory Committee, prepares a list of projects proposed for funding during the upcoming fiscal year. The fiscal year project list, after approval by the Board, constitutes the Capital Improvement Program for the District in the ensuing fiscal year. The fiscal year project list and

the updated TYCP presented in this document were approved on June 13, 2019, for Fiscal Year 2019-20. Board approval of the TYCP and the fiscal year project list does not authorize funding of any project and does not commit the District to expend any funds.

### Historical Annual Expenditure



The TYCP consumes all revenues that the District receives that are not allocated to Operations (Fund 2860), Debt Service (Fund 3300), or the Maintenance Work Program (Fund 2870). A pie chart representing the historical annual expenditures for a fiscal year is depicted above. The TYCP revenues are derived from the District's one quarter of one percent of Clark County Sales Tax Revenue, interest revenues and bond proceeds from the issuance of debt. Sales Tax and interest revenue is used to fund the District's Pay-As-You-Go (PAYG) Program. Since May 1987, when the first Sales Tax Revenues were received, the District has collected over \$1.9 billion in Sales Tax Revenues, through the end of January 2019. Additionally, the District has issued \$80,000,000, \$150,000,000, \$200,000,000, \$150,000,000, \$75,000,000, \$100,000,000 and \$115,000,000 in General Obligation Bonds/Notes, secured by Sales Tax Revenue, which were sold in November 1991, September 1998, September 2003, June 2009, December 2013, December 2014, and March 2019, respectively, to expedite projects. Through May of 2019, the District has funded \$1,914,953,430 in projects.

### FISCAL YEAR 2020 THROUGH FISCAL YEAR 2029 TYCP

The TYCP is an estimate of when funding will be requested. Available revenues for the TYCP are estimated to be \$899,655,079. Additionally, \$85,000,000 in bonds are programmed in fiscal year 2019-20 and \$100,000,000 in bonds are programmed in both fiscal year 2023-24 and fiscal year 2027-28, to expedite future flood control infrastructure. However, programming of debt is not a guarantee that the debt will be issued and is based on the progress in project development.

## **REGIONAL FLOOD CONTROL DISTRICT – FY 2020 THROUGH FY 2029**

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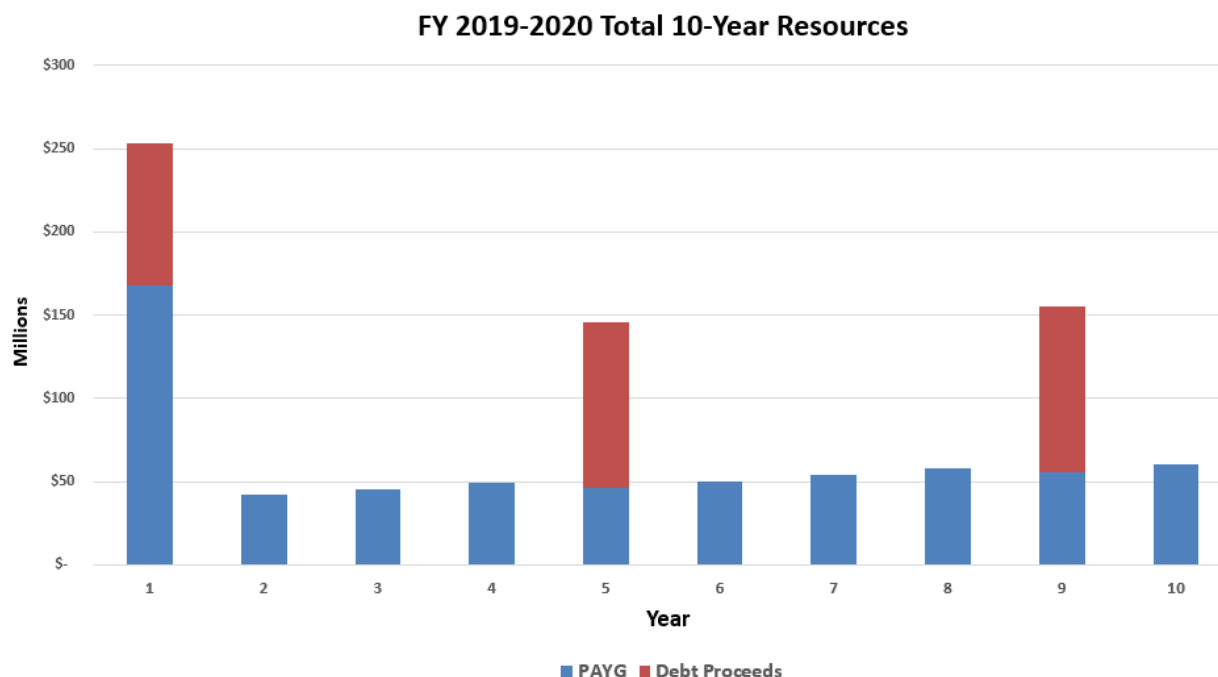
The District also continually evaluates whether to issue the debt based on economic conditions. Sales Tax growth for Year 1 is based on a 4.0% growth rate from prior years' revised estimate (\$107,600,000) and a 3.5% growth rate for Year 2 through Year 10.

The TYCP also includes inflation factors to account for increases in project costs over time. A new cost estimating tool was generated with the 2018 Master Plan Update for the Las Vegas Valley, and was also utilized to update estimated costs in the Boulder City planning area. Since estimated costs were recently updated, inflation factors are not applied to the Las Vegas Valley or Boulder City Planning areas for FY 2019-20. Mesquite/Bunkerville, and Clark County Outlying planning areas include a 5.0% factor to adjust for escalating costs of construction experienced through the economic recovery, and a 3.0% inflation factor for FY 2019-20. All planning areas include 3.0% inflation factor for the out years. Funding of projects in the first year of the TYCP is dependent on revenues being received as projected. There is no guarantee that the project will be funded in the year that it is programmed to request funding. A project may be delayed to future years based on actual receipt of revenues and issuance of debt, resulting in adjustments to the entire TYCP.

## REGIONAL FLOOD CONTROL DISTRICT – FY 2020 THROUGH FY 2029

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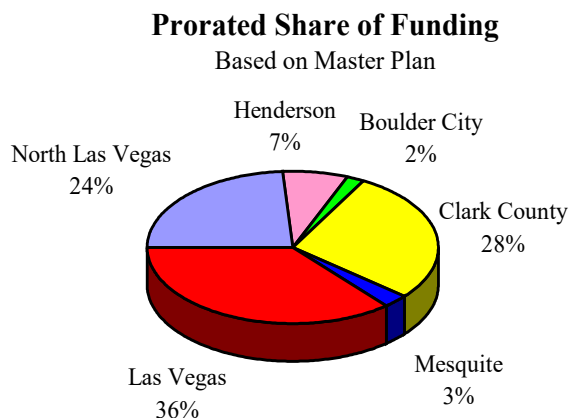
The chart below depicts the total resources projected over the next ten-year period from Sales Tax Revenue and future debt issuance that could be used to finance design and construction of flood control facilities.



Flood control projects are fairly standard in nature and typically follow a design time of 1-2 years and a construction time of 2-3 years. The minimum level of expenditures for assets to be classified as capital assets for the District is \$5,000 and we comply with all adopted GAAP requirements. The design and construction periods for District projects cross multiple fiscal years and unexpended funding is carried forward. The District's budgeted expenditures for the TYCP tie to the capital outlay budget for each fund. The budgeted resources for District's capital funding during FY 2019-20 are \$384,562,331, which includes previously approved and new projects planned for FY 2019-20.

The target funding percentages for each hydrographic area were established based on a proportionate share of the sum of the cost of funded projects and proposed Master Plan facilities. The Master Plan costs were obtained from the estimates contained in the various Master Plan Updates that have been adopted. The most recent are the Master Plan Updates for: the Las Vegas Valley adopted by the Board on January 14, 2019; the City of Boulder City adopted by the Board on November 8, 2018; the

Town of Bunkerville and the City of Mesquite adopted by the Board on December 14, 2017; the Muddy River and Tributary Washes adopted by the Board on May 19, 2016; the Town of Laughlin adopted by the Board on April 10, 2014, and the Outlying Areas of Clark County adopted by the Board on April 10, 2014. The costs of funded projects were derived from the financial reports at the date of adoption of each Master Plan Update. Exhibit A shows the costs of flood control facilities by hydrographic area and the entity to which the area is assigned. The pie chart on this page indicates the percent of revenues which should be spent in each entity based on need as measured by the cost of flood control facilities identified on the Master Plans. This ensures an equal rate of implementation of flood control infrastructure within each hydrographic area over time.



In November 2000, the District's Board of Directors approved the implementation of Entity Advance Funding (EAF) for flood control projects that meet the District's criteria for construction funding when funds are not yet available. This allows an entity (City or County) to advance construction funding and advertise and award a construction contract for the project ahead of the scheduled date that the District would have funds available. The Board amended the EAF policies on May 15, 2003 and April 12, 2012. Through an Interlocal Contract, the District and Entity agree to a date that the District will reimburse the entity and a set dollar amount for the project. The EAF process has a \$40 million cap; requires that the project be programmed in the first three (3) years of the TYCP in the amount of the request; and the agreed reimbursement date must not exceed five (5) years from the date the Interlocal Contract is approved. These policies keep future revenues and obligations manageable. Current and future EAF contract funds will be programmed in accordance with the conditions of the contract.

In some cases, funds are available from another source to allow a construction project to proceed in advance of the District having funding available. When an alternate source of funding is willing and able to facilitate immediate construction of a project the Board may consider a Resolution of Intent to reimburse the funding source at an agreed upon time and amount. The funds for reimbursement are programmed in accordance with the conditions of the Resolution.

## REGIONAL FLOOD CONTROL DISTRICT – FY 2020 THROUGH FY 2029

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### Maintenance Work Program

The Board has adopted an Operations and Maintenance Program to provide funding of, and establish performance standards and guidelines for, the maintenance of flood control facilities located in the District's service area. The Program provides funding for entities to maintain flood control facilities within their respective jurisdictions to assure that facilities included in the Master Plan are maintained in a manner that maximizes their useful life and ensures their operation at design capacity during a storm event.

Subsequently, the District worked with the entities to develop the Maintenance Work Program (MWP) to be consistent with the requirements outlined in the Operations and Maintenance Manual. Work is performed using a combination of private contractors and entity maintenance staff. Approximately 648 miles of channel and underground storm drains, of which 133 miles are natural washes, are inspected and/or maintained throughout Clark County, along with 100 detention basins.

Projected Maintenance Work Program funding for the TYCP period is depicted in the following chart:

<b>Fiscal Year</b>	<b>Factor</b>	<b>TYCP MWP Funding Projection</b>	
2020	Approved Budget	\$	16,000,000
2021	-25.0%	\$	12,000,000
2022	0.0%	\$	12,000,000
2023	0.0%	\$	12,000,000
2024	0.0%	\$	12,000,000
2025	0.0%	\$	12,000,000
2026	0.0%	\$	12,000,000
2027	0.0%	\$	12,000,000
2028	0.0%	\$	12,000,000
2029	0.0%	\$	12,000,000
<b>Total estimated maintenance over 10 years</b>		<b>\$</b>	<b>\$124,000,000</b>

**Local Drainage Program**

During the 2001 Nevada Legislative Session, the District proposed several changes to NRS 543 – Control of Floods. Senate Bill 267 passed during the session and amended NRS 543 to allow the District to implement a Local Drainage Program. On November 8, 2001, the Board of Directors adopted amendments to the District’s Policies and Procedures Manual, which included a definition of a local drainage project and set the procedures for entities minimum eligibility requirements; established funding guidelines for local drainage projects; and identified project initiation procedures.

During the eighteenth year of this program, the District has budgeted \$2,000,000 for Local Drainage projects. Projected Local Drainage Program funding for the TYCP is depicted in the chart on the next page.

In FY 2014, the District funded in the City of Las Vegas, Buckskin Avenue Storm Drain (estimated completion date of December 2019).

In FY 2015, there were no requests for funding for the Local Drainage Program.

In FY 2017, there were no requests for funding for the Local Drainage Program.

In FY 2019, the District funded in the City of Las Vegas, Luning Drive Storm Drain (estimated completion date of December 2021).



## REGIONAL FLOOD CONTROL DISTRICT – FY 2020 THROUGH FY 2029

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Projected Local Drainage Program funding for the TYCP period is depicted in the following chart:

<b>Fiscal year</b>	<b>Factor</b>	<b>TYCP Local Drainage Budget Projection</b>	
2020	Approved Budget	\$	2,000,000
2021	-42.1%	\$	1,158,165
2022	3.5%	\$	1,198,701
2023	3.5%	\$	1,240,655
2024	3.5%	\$	1,284,078
2025	3.5%	\$	1,329,021
2026	3.5%	\$	1,375,537
2027	3.5%	\$	1,423,680
2028	3.5%	\$	1,473,509
2029	3.5%	\$	1,525,082
<b>Total estimated local drainage over 10 years</b>		<b>\$</b>	<b>14,008,429</b>

The TYCP presented in this document represents the District's and Entities work plan for the coming years.

<b>Project Prioritization</b>
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Annually, during review and development of the TYCP, the relative priority of Master Plan projects are reviewed and the priority of projects are assessed. Exhibit B presents a tabulation of the priority values for all Las Vegas Valley flood control facilities included in the TYCP. The criteria used in the evaluation of projects as prescribed in the District Policies and Procedures Section II.B.3 is presented below Items a) through d) recognize life safety issues and are weighted accordingly in this regard:

- a) **Population Affected**  
Refers to the existing population affected by the construction of the project considered. Impact includes reducing flood hazards.
- b) **Assessed Land Value Impacted**  
Assessed land values for developed and undeveloped land affected by the project, including all structures (public, commercial, or residential) will be reviewed. Impact on land values related to a reduction of the floodplain area will be considered under this item.
- c) **Public Perception of Need**  
The project will be evaluated in terms of satisfying the public's desire to see their money spent on "worthwhile" projects and the public's perception of need.
- d) **Emergency Access and Public Inconvenience**  
The project will be evaluated to determine its impact on the access of emergency vehicles including police, ambulance, and fire vehicles to their respective substation, hospital, or station. The evaluation will include an assessment of the project's contribution to the development of an all-weather transportation system and accessibility to flood isolated residences, businesses, and public facilities.
- e) **Cost Avoidance**  
Cost avoidance includes projects which will reduce future costs, including potential damage, construction of oversized facilities, and the ability to construct. This item should also address other costs associated with lost opportunity and the risk associated with inadequate or undersized facilities.
- f) **Availability of Other Funding Sources**  
This includes an evaluation of the potential for funds from grants, developers, the Corps of Engineers, and other public and private interests. Additional funding sources shall include but are not limited to land donated by private developers and the Bureau of Land Management.

g) **Interrelationship to Other Projects**

Projects which score high on this criterion can function independently or are needed to complete or increase the effectiveness of the existing regional and local drainage system.

h) **Timing and Implementation**

All aspects of timing and implementation should be considered under this item including availability of right-of-way, permit review if necessary, and ability to administer and begin a project in a reasonable time-frame.

i) **Environmental Enhancement**

Evaluation of this criterion includes benefits derived from improving or mitigating the threat to public health resulting from stagnant water, erosion, raw sewage spills, and contamination of the domestic water supply. It also includes, if applicable, information on the project's enhancement of habitat, recreational opportunities, and water quality.

j) **Annual Maintenance Cost**

Projects which will rank high on this criterion have a lower maintenance cost than those facilities now in existence or will reduce maintenance costs downstream.

Priority values are calculated by each lead entity within their respective hydrographic areas. It should be noted that priority values may not necessarily be relative from one hydrographic area to another.

<b>Ten-Year Construction Program</b>
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The proposed TYCP totals \$883,732,442 and is presented as Exhibit C. The estimated cost of facilities presented in the Master Plans for all of Clark County is \$2,320,816,120. Therefore, this TYCP constitutes approximately 38% of total Master Plan facility costs. The TYCP project locations are shown on the attached maps. A summary of the proposed program, along with major accomplishments for each entity follows.

**HENDERSON**

Pittman Wash Planning Area  
and  
C-1 Channel Planning Area

A summary of the proposed program, along with major accomplishments for the City of Henderson is shown in the attached map labeled “Pittman Wash and C-1 Channel Planning Area.” Henderson projects completed or funded for construction since 1987 include:

**Appaloosa Storm Drain**, Local Drainage Project

**Black Mountain (Southwest C-1) Detention Basin**

Located at the base of Black Mountain

**Blackridge Road Storm Drain System**, Local Drainage Project

**Boulder Highway Channel**

**Bridges over Pittman Wash**

At Warm Springs Road, Stephanie Street, and Green Valley Parkway

**C-1 Channel, Middle Reach**

**C-1 Channel/Middle & Upper Reaches, Phase I (Burkholder Boulevard to Boulder Highway)**

**C-1 Channel, Upper & Middle Reaches – Vermillion Drive to Boulder Highway**

**C-1 Channel, US-95 Tributary 1**

**C-1 Equestrian Tributary**

**Center Street Storm Drain**

**Duck Creek, Sunset to Sandhill**

**Gibson Channel Culvert at Sunset Road**

***Henderson (continued)***

**Gibson Conveyance System**

**East C-1 Detention Basin**

Situated in a narrow canyon within the River Mountains funded and constructed by the Southern Nevada Water Authority

**Equestrian Detention Basin and Collection Channel**

**Equestrian Detention Basin Expansion**

**Equestrian Detention Basin Outfall – Heritage Channel**

**Equestrian Tributary, Phase II**

**Horizon Ridge Detention Basin**

**Mission Hills Detention Basin and C-1 Channel**

From Lake Mead Drive to Burkholder Boulevard

**Mission Hills Western Interceptor**

From Pacific Avenue to the Mission Hills Detention Basin

**McCullough Hills Detention Basin**

Designed by the Del Webb Corporation as a joint use recreation facility as part of their Anthem project

**Northeast Detention Basin, Levee and Outfall**

**Palm Hills Channel**

**Pioneer Detention Basin**

**Pioneer Detention Basin Expansion and Inflow**

**Pioneer Detention Basin/Outfall, Phase I**

From Warm Springs Road to Sunset

**Pittman Eastern Detention Basin**

**Pittman North Detention Basin and Outfall, Phase 1**

**Pittman North Detention Basin and Outfall, Phase 2 – Starr Avenue**

***Henderson (continued)***

**Pittman North Detention Basin and Outfall, Phase III**

**Pittman Park Detention Basin**

A joint use recreation facility

**Pittman Park Peaking Basin Modification**

**Pittman Pecos West Conveyance and Eastern Avenue Tributary**

**Pittman Railroad East Conveyance**

**Pittman Railroad, MacDonald Ranch Channel**

**Pittman Wash**

From I-515 to Santiago Road: Phase I, II, and IIIA

**Pittman Wash – Burns**

**Pittman Wash, Duck Creek at I-515**

**Pittman Wash – Gibson**

**Pittman Wash Railroad Channel (Phase I)**

**Pittman Wash Railroad Channel, US-95 to Major Avenue**

**Pittman Wash, UPRR to Santiago**

**Racetrack Channel – Drake to Burkholder**

**Union Pacific Railroad Channel**

From Pittman Wash to Eastern Avenue

District funding since 1987 for the projects plus design efforts on future projects total approximately \$220,301,908.

## **REGIONAL FLOOD CONTROL DISTRICT – FY 2020 THROUGH FY 2029**

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The projects proposed on the TYCP in hydrographic basin order with Priority Value (PV) include the following:

**Pittman Burns – Pittman Sunset, Burns Avenue to Foster Avenue (PV = 90.5)**

**PTBH 0000, 0014, 0015, PTSU 0034, 0037, 0067, 0069** – This project consists of a concrete channel and 7' x 4' to 20' x 8' reinforced concrete box storm drain that will collect flows at the intersections of Sunset Road/Boulder Highway and Sunset Road/Foster Avenue and convey them to Burns Avenue and ultimately the existing Weisner Channel near Burns Avenue and Galleria Drive. Design is programmed in FY 20/21. Construction funding is programmed in FY 23/24. The TYCP includes approximately \$6.6 million for this project.

**Pittman Burns – Galleria Drive to Sunset Road (PV = 95.0)**

**PTSU 0000, 0008, 0023, 0028, 0032** – This Developer Participation project consists of 16' x 8' to 20' x 8' reinforced concrete box storm drain and concrete channel that will collect flows in Burns Avenue and convey them to the existing Weisner Channel near Burns Avenue and Galleria Drive. Construction funding is programmed in FY 19/20. The TYCP includes approximately \$1.5 million for this project.

**Lower Pittman – Whitney Ranch Channel Replacement Project (PV = 91.5)**

**WWDC 0001, 0016, 0031, 0034, 0053, 0056** – This project consists of increasing the conveyance capacity of the Whitney Wash Channel between the Pittman Wash – Duck Creek Channel to approximately 900' east of the Whitney Mesa Estates Channel (WWDC 0084). The existing trapezoidal concrete channel will be replaced with a larger rectangular concrete channel between the Pittman Wash – Duck Creek Channel and Whitney Ranch Drive and an 18' x 5' reinforced concrete box culvert between Whitney Ranch Drive and the Whitney Mesa Estates Channel. A 20' x 6' reinforced concrete box culvert is proposed under Whitney Ranch Drive and an 18' x 5' reinforced concrete box culvert under Galleria Drive. Design is underway and construction funding is programmed in FY 20/21. The TYCP includes approximately \$6.5 million for this project.

**Lower Pittman – Whitney Ranch Channel Replacement Project, Phase II (PV = 91.5)**

**WWDC 0070** – This project consists of connecting the initial phase of this channel replacement project (WWDC 0056) to the existing Whitney Mesa Estates Channel (WWDC 0084) via an 18' x 5' reinforced concrete box storm drain. Design is underway and construction funding is programmed in FY 21/22. The TYCP includes approximately \$1.7 million for this project.

**Pittman Pabco – Boulder Highway Crossing at Water Street (PV = 94.0)**

**PTPA 0285, 0286** – This Developer Participation projects consists of 6' x 6' to 7' x 6' reinforced concrete box storm drain crossing under Boulder Highway at Water Street. Construction funding is programmed in FY 19/20. The TYCP includes approximately \$0.70 million for this project.

***Henderson (continued)***

**Upper Pittman – Southeast Pittman Detention Basin (PV = 84.5)**

**PTBE 0062, 0063, 0064, PTSO 0000** – This project consists of a concrete channel collection facility, a 550 acre-foot detention basin, spillway, and outfall pipe. Basin outflow will discharge to a natural wash and ultimately the Pittman North Detention Basin collection facility in Volunteer Boulevard approximately 1.5 miles downstream. Design is programmed in FY 22/23 and construction funding is programmed in FY 25/26. The TYCP includes approximately \$9.4 million for this project.

**Upper Pittman – Pittman Giles pie (PV = 78.5)**

**PTGL 0001, 0011** – This project consists of 7' x 6' reinforced concrete box storm drain in Giles pie Street extending from the Pittman North Detention Basin to Larson Lane. Design is programmed in FY 24/25 and construction funding is programmed in FY 27/28. The TYCP includes approximately \$7.4 million for this project.

**Upper Pittman – Pittman Wash South Phase 1 – Pittman North Detention Basin to Larson Lane (PV = 77.0)**

**PTSD 0016, 0017, 0043** – This project consists of 13' x 8', dual 18' x 8' reinforced concrete box culverts, and concrete channel improvements in Bermuda Road extending from the Pittman North Detention Basin to Larson Lane. Design and Right-of-Way Acquisition are programmed in FY 24/25. Construction funding is programmed in FY 27/28. The TYCP includes approximately \$8.0 million for this project.

**Upper Pittman – Pittman Wash South Phase 2 – Larson Lane to Roban Street (PV = 73.0)**

**PTSD 0044, 0070, 0071** – This project consists of concrete channel improvements and 25' x 6' reinforced concrete box storm drain in Bermuda Road from Larson Lane to Shayna Road and concrete channel improvements extending southwest from Shayna Road to Roban Street. Design is programmed in FY 26/27. The TYCP includes approximately \$1.1 million for this project.

**Upper Pittman – Southwest Pittman Detention Basin (PV = 85.0)**

**PTSD 0233, 0234** – This Developer Participation project consists of a 452 acre-foot detention basin and spillway. Basin outflow will discharge to a natural wash and ultimately the Pittman North Detention Basin approximately 3.5 miles downstream. Construction is programmed in FY 23/24. The TYCP includes approximately \$5.6 million for this project.

**C-1 – Cadiz Storm Drain – Racetrack Road to Pueblo Boulevard (PV = 87.0)**

**CICA 0000** – This project consists of a 78" diameter reinforced concrete pipe in Cadiz Avenue from Racetrack Road to an existing concrete channel on the west side of Pueblo Boulevard. Design is programmed in FY 25/26. Construction funding is programmed in FY 28/29. The TYCP includes approximately \$3.8 million for this project.

The funding programmed for the C-1 Channel and Pittman Wash Planning Areas in Henderson totals approximately \$52.3 million on the TYCP.



**LAS VEGAS**

Upper Northern Las Vegas Wash Planning Area  
Gowan Planning Area and  
Central Basin Planning Area

Projects being undertaken within these planning areas are being administered by either Las Vegas, North Las Vegas, or Clark County. A summary of the proposed program, along with major accomplishments for the City of Las Vegas is shown on the attached map labeled “Gowan, Central, and Upper Northern Basins Planning Area”. City of Las Vegas projects completed or funded for construction since 1987 include:

**Alta Parallel System**

**Alta Storm Drain**

Part of the Meadows Detention Basin Collection System

**Angel Park Detention Basin Expansion**

**Angel Park Outfall Storm Drain**

Vegas Drive between Angel Park Detention Basin and the Buffalo Channel

**Ann Road Channel West – Rainbow Boulevard**

**Ann Road Detention Basin Facilities**

**Brent Drainage System – Floyd Lamb Park to Durango Drive**

**Bruce Street Storm Drain, Local Drainage Project**

**Buckskin Avenue Storm Drain, Local Drainage Project**

**Buffalo Channel**

Between Gowan Detention Basin and Doe Avenue

**Carey Avenue/Lake Mead Detention Basin and Conveyance System**

Located along Lake Mead Boulevard between I-15 and Michael Way

**Centennial Parkway Channel West – CC 215, Pioneer Way to US 95**

**Centennial Parkway Channel West – US95, CC215 to Grand Teton and US95 Crossing at Kyle Canyon Road**

**Centennial Parkway Channel West – US95 Crossing**

Designed and will be constructed by NDOT as part of their US 95 Widening Project

***Las Vegas (continued)***

**Cheyenne Channel**

Gowan South Detention Basin to Buffalo Drive

**Cheyenne Crossings**

Developer participation project at Rampart, Soft Breezes, and Soaring Gulls

**Colorado Avenue System**

Clark County is the Lead Entity

**Crystal Water Way, Lake South Drive to Desert Inn Road, Local Drainage Project**

**Durango Drive Storm Drain**

Between Charleston Boulevard and Angel Park Detention Basin

**Elkhorn Springs & Buffalo Storm Drain**

**Flamingo – Boulder Highway North – Boulder Hwy., Sahara to Charleston**

**Freeway Channel – Charleston Lateral**

**Freeway Channel – Washington, MLK to Rancho Drive**

**Gilmore Avenue – Decatur Boulevard to Thom Boulevard Storm Drain, Local Drainage Project**

**Gowan Detention Basins**

The North and South Detention Basins are joint use recreation facilities

**Gowan Detention Basin Outfall**

- Storm drain located in Gowan Road between Tenaya Way and Decatur Boulevard

- Decatur Boulevard to the Western Tributary of the Las Vegas Wash – City of North Las Vegas is the Lead Entity

**Gowan Lone Mountain System – Branch 4**

**Gowan/Lone Mountain System – Gilmore Channel**

**Gowan Lone Mountain System – Cliff Shadows Park**

**Gowan North – Buffalo Branch**

**Gowan North – Buffalo Branch (Cheyenne Avenue to Lone Mountain Road)**

***Las Vegas (continued)***

**Gowan North – Buffalo Branch (Gowan Road and Buckskin Avenue)**

**Gowan North – Buffalo Branch, Lone Mountain to Washburn Road**

**Gowan North Channel, El Capitan Way to the Beltway**

**Gowan North – El Capitan Branch, Lone Mountain to Ann Road**

**Gowan North Channel – Phases I & II**

Northern Gowan Detention Basin to Durango including the Durango Branch

**Gowan North System – Phase III: Alexander Road to Lone Mountain Road**

**Gowan Outfall, Craig Road to Channel**

North Las Vegas is the Lead Entity

**Gowan Outfall – Lone Mountain Branch, Decatur Boulevard to Channel**

**Gowan Outfall, Lone Mountain Branch (Ferrell Street to Kenny Way)**

**Gowan Outfall – Lone Mountain Branch (Rancho Drive to Decatur Boulevard)**

**Grand Teton – Hualapai to Tee Pee**

**Grand Teton Overpass – Storm Drain**

**Holmby Channel, Local Drainage Project**

**Horse Drive Interchange**

**I-15 Freeway Channel**

Portion constructed as part of the Nevada Department of Transportation (NDOT) I-15/Sahara Avenue Interchange project in 1995. The Freeway Channel System, Alta Drive to Sahara Avenue and Bypass Facilities (from Wall Street to Sahara Avenue) were completed in August 2002.

**Jay Avenue Improvements, Local Drainage Project**

**Jones Boulevard – Alta to Borden Storm Drain, Local Drainage Project**

**Langtry Channel – Bonanza Road to Washington Avenue**

**Las Vegas Creek Channel, Parallel System at Decatur Boulevard**

***Las Vegas (continued)***

**Las Vegas Creek Channel, Parallel System**

**Las Vegas Wash – Decatur Boulevard (Elkhorn Road to Farm Road)**

**Las Vegas Wash – Decatur & Elkhorn, CC 215**

**Las Vegas Wash – Elkhorn Road, Rainbow Boulevard to Torrey Pines Drive**

**Las Vegas Wash – Grand Teton, Mountain Spa to Durango Drive**

**Las Vegas Wash – Jones Boulevard, Elkhorn Road to Farm Road**

**Las Vegas Wash – Rainbow (Elkhorn Road to Grand Teton Drive)**

**Las Vegas Wash, Rancho Drive System (Carey/Lake Mead Detention Basin to Peak Drive)**

**Las Vegas Wash – Smoke Ranch System (Peak Drive: Torrey Pines Drive – Jones Boulevard)**

**Lexington Street Storm Drain, Local Drainage Project**  
Formerly known as Concord Street Storm Drain

**Lone Mountain Detention Basin**  
Right-of-Way Acquisition, Environmental Mitigation, and Construction Engineering

**Lone Mountain System – Lone Mountain Detention Basin Outfall to Durango Drive**

**Luning Drive Storm Drain, Local Drainage Project**

**LVW – Moccasin, Skye Canyon Park to Upper LVW**

**Meadows Detention Basin and Collection System**

**Meadows Detention Basin Expansion**

**North & South Environmental Enhancement Areas – Floyd Lamb Park**

**Oakey Boulevard Detention Basin and Outfall**

**Oakey Boulevard & Tenaya Way Storm Drain, Local Drainage Project**

**Oakey Drain, Birch Street to Cahlan Drive**

***Las Vegas (continued)***

**Oakey Drain – Cahlan to Barnard**

**Oakey – Meadows Storm Drain, Phase I**

**Oakey Meadows Storm Drain – Phase II**

**Oakey – Meadows Storm Drain, Phase III**

**Owens Avenue System (Rancho Drive to I-15)**

**Peak Drive, Rainbow Boulevard to Torrey Pines Drive, Local Drainage Project**

**Peak Drive System (Jones Boulevard to Michael Way)**

**Rampart Storm Drain**

Project in conjunction with the Regional Transportation Commission of Southern Nevada (RTC)

**Rancho Detention Basin, Phase II**

**Rancho Road System: Durango Drive US-95 Interchange**

**Rancho Road System – El Campo Grande Storm Drain**

**Rancho Road System – Elkhorn, Fort Apache to Grand Canyon**

**Rancho System – Beltway to Elkhorn**

**Rancho Road System – Elkhorn, Grand Canyon to Hualapai**

**Vegas Drive Storm Drain – Rancho to Shadow Mountain**

**Washington Avenue System**

Las Vegas Creek from Las Vegas Wash beneath Sandhill Road to Washington Avenue then along Washington Avenue to Sagman Street; Sagman Street to Bonanza Road; Bonanza Road to Veterans Memorial Drive; Veterans Memorial Drive to UPRR; and UPRR to Alta Drive (southeast quadrant of the Spaghetti Bowl).

**Washington Avenue System (Martin Luther King Boulevard to I-15) and Freeway Channel North (Washington Avenue to Vegas Drive)**

District funding since 1987 for the projects plus design efforts on future projects totals approximately \$720,260,395.

The projects proposed on the TYCP in hydrographic basin order with Priority Value (PV) include the following:

**Central – LV Wash I-15 Tributary – Freeway Channel – Washington Avenue, Valley View Boulevard to Michael Way (PV = 76.0)**

**LV15 0602** – This project consists of dual 66” diameter reinforced concrete pipes in Washington Avenue extending from just west of Valley View Boulevard to Michael Way. Design is programmed in FY 24/25 and construction funding is programmed in FY 27/28. The TYCP includes approximately \$10.4 million for this project.

**Central – LV Wash I-15 Tributary – Freeway Channel – Washington Avenue, Rancho Drive to Valley View Boulevard (PV = 80.0)**

**LV15 0528** – This project consists of an 8’ x 8’ reinforced concrete box storm drain in Washington Avenue extending from Rancho Drive to just west of Valley View Boulevard. Design is programmed in FY 23/24 and construction funding is programmed in FY 25/26. The TYCP includes approximately \$9.0 million for this project.

**Central – LV Wash I-15 Tributary – Lake Mead – Carey – Lake Mead Detention Basin Outfall (PV = 89.5)**

**LVLM 0221** – This project consists of a 48” diameter reinforced concrete pipe outlet from the Carey – Lake Mead Detention Basin connecting to existing storm drain in Carey Avenue. Design is programmed in FY 19/20 and construction funding is programmed in FY 20/21. The TYCP includes approximately \$0.10 million for this project.

**Central – LV Wash I-15 Tributary – Owens Avenue System – Vegas Drive, Shadow Mountain Place to Jones Boulevard (PV = 85.5)**

**LVOW 0360** – This project consists of an 8’ x 6’ reinforced concrete box storm drain in Vegas Drive extending from Shadow Mountain Place to Jones Boulevard. Design is programmed in FY 20/21 and construction funding is programmed in FY 23/24. The TYCP includes approximately \$3.9 million for this project.

**LV Wash Central – Las Vegas Wash – Stewart Avenue to Bonanza Road (PV = 86.0)**

**LVMD 1121, 1149** – This project consists of 70’ to 90’ wide by 10’ to 11’ deep open channel improvements within the Las Vegas Wash, extending from Stewart Avenue to Bonanza Road. Design is underway. Construction funding is programmed in FY 23/24. The TYCP includes approximately \$7.3 million for this project.

**LV Wash Central – Meadows – Charleston Boulevard, Essex Drive to Lindell Road (PV = 81.5)**

**MECN 0000, 0061** – This project consists of 9’ x 8’ and 8’ x 7’ reinforced concrete box storm drain in Charleston Boulevard extending from Essex Drive to Lindell Road. Design is programmed in FY 22/23 and construction funding is programmed in FY 24/25. The TYCP includes approximately \$9.4 million for this project.

***Las Vegas (continued)***

**LV Wash Central – Meadows – Charleston Boulevard, Lindell Road to Rainbow Boulevard (PV = 79.0)**

**MECN 0123, 0223** – This project consists of 8' x 6' and 6' x 5' reinforced concrete box storm drain in Charleston Avenue extending from Lindell Road to Rainbow Boulevard. Design is programmed in FY 23/24 and construction funding is programmed in FY 25/26. The TYCP includes approximately \$13.4 million for this project.

**LV Wash Central – Las Vegas Wash – Stewart Avenue, Las Vegas Wash to Lamb Boulevard (PV = 84.0)**

**LVST 0000** – This project consists of a 10' x 10' reinforced concrete box storm drain in Stewart Avenue extending from the Las Vegas Wash to Lamb Boulevard. Design is programmed in FY 20/21 and construction funding is programmed in FY 23/24. The TYCP includes approximately \$11.4 million for this project.

**LV Wash Central – Owens Avenue East – LV Wash to Eastern Avenue (PV = 78.0)**

**LVOE 0000, 0085** – This project consists of 14' x 12' and 15' x 12' reinforced concrete box storm drain in Owens Avenue from the Las Vegas Wash to Eastern Avenue. Design is programmed in FY 23/24 and construction funding is programmed in FY 26/27. The TYCP includes approximately \$27.9 million for this project.

**Sahara Boulder Highway – Boulder Highway Sahara Avenue – Eastern Avenue to Boulder Highway (PV = 75.0)**

**BHSA 0000, 0026** – This project consists of 14' x 11' and 16' x 14' reinforced concrete box storm drain in Sahara Avenue from Boulder Highway to Eastern Avenue. Design is programmed in FY 24/25 and construction funding is programmed in FY 27/28. The TYCP includes approximately \$20.9 million for this project.

**Sahara Boulder Highway – Sahara Avenue – Eastern Lateral (PV = 72.5)**

**SAEA 0000** – This project consists of a 10' x 7' reinforced concrete box storm drain in Eastern Avenue from Sahara Avenue to St. Louis Avenue. Design is programmed in FY 25/26 and construction funding is programmed in FY 28/29. The TYCP includes approximately \$3.3 million for this project.

**Sahara Boulder Highway – Boulder Highway Sahara Avenue – Maryland Parkway to Eastern Avenue (PV = 75.0)**

**BHSA 0075** – This project consists of a 12' x 11' reinforced concrete box storm drain in Sahara Avenue from Eastern Avenue to Maryland Parkway. Design is programmed in FY 26/27 and construction funding is programmed in FY 28/29. The TYCP includes approximately \$17.7 million for this project.

***Las Vegas (continued)***

**Sahara Boulder Highway – Flamingo – Boulder Highway North, Charleston Boulevard – Main Street to Maryland Parkway (PV = 87.5)**

**FLBN 0281, 0312** – This project consists 10' x 7' and 7' x 4' reinforced concrete box storm drain in Charleston Boulevard from Maryland Parkway to Main Street. Design is underway. Construction funding is programmed in FY 22/23. The TYCP includes \$7.6 million for this project.

**Sahara Boulder Highway – Flamingo – Boulder Highway North, Charleston – Boulder Highway to Maryland Parkway and Maryland Parkway System (PV = 90.0)**

**FLBN 0170, 0180, 0205, 0275, 0280 & FLMP 0000, 0013, 0042, 0068** – This project consists of 42" diameter reinforced concrete pipe, 6' x 4', and 12' x 4' reinforced concrete box storm drain in Maryland Parkway and 13<sup>th</sup> Street between Charleston Boulevard and Stewart Avenue, and 10' x 6' to 18' x 8' reinforced concrete box storm drain in Charleston Boulevard from Boulder Highway to 13<sup>th</sup> Street. Design is underway. Construction funding is programmed in FY 19/20. The TYCP includes \$44.0 million for this project.

**Sahara Boulder Highway – Las Vegas Wash – Cedar Channel/Bonanza – Las Vegas Wash to Lamb Boulevard (PV = 75.0)**

**LVBZ 0000, CACH 0001, 0020** – This project consists of a dual 12' x 7' reinforced concrete box storm drain in Marion Drive from the existing Cedar Avenue Channel to Bonanza Road and 22' to 31' wide by 6.5' to 12' deep open channel improvements within the Cedar Avenue Channel, extending from the Las Vegas Wash to Marion Drive. Design is programmed in FY 26/27 and construction funding is programmed in FY 28/29. The TYCP includes approximately \$11.3 million for this project.

**Gowan North – Gowan Box Canyon – Lone Mountain Road (PV = 76.5)**

**GOBX 0015** – This project consists of approximately 1.25 miles of 66" diameter reinforced concrete pipe storm drain within Lone Mountain Road between the Box Canyon and Lone Mountain Beltway Detention Basins. Design is underway. Construction funding is programmed in FY 27/28. The TYCP includes approximately \$7.4 million for this project.

**Gowan North – Gowan Outfall – Alexander Road, Decatur Boulevard to Simmons Street (PV = 90.0)**

**GOOF 0275, 0285, 0325, 0375** – This project consists of a reinforced concrete box storm drain ranging in size from dual 12' x 8' to dual 16' x 8' in Alexander Road from Simmons Street to Decatur Boulevard. Design is underway. Construction funding is programmed in FY 20/21. The TYCP includes approximately \$27.9 million for this project.

**Gowan North – Gowan Outfall – Clayton Branch (PV = 72.0)**

**GOCL 0000** – This project consists of 9' x 8' reinforced concrete box storm drain extending north in Clayton Street then west in Washburn Road from the Gowan Outfall Channel to Simmons Street. Design is programmed in FY 24/25 and construction funding is programmed in FY 27/28. The TYCP includes approximately \$15.5 million for this project.



***Las Vegas (continued)***

**Gowan North – Gowan Outfall – El Capitan Branch, Ann Road to Centennial Parkway (PV = 87.0)**

**GOEC 0100, 0126, 0152, 0176** – This project consists of 78” diameter reinforced concrete pipe storm drain and reinforced concrete box storm drain ranging in size from 7’ x 6’ to 10’ x 7’ in El Capitan Way from Ann Road to Centennial Parkway. Design is underway. Construction funding is programmed in FY 21/22. The TYCP includes approximately \$7.6 million for this project.

**Gowan North – Gowan – Alexander Road, Rancho Road to Decatur Boulevard (PV = 87.5)**

**GOAL 0000, 0056** – This project consists of 19’ x 6’ and 14’ x 6’ reinforced concrete box storm drain in Alexander Road from Decatur Boulevard to Rancho Road. Design is underway. Construction funding is programmed in FY 21/22. The TYCP includes approximately \$10.5 million for this project.

**Gowan North – Gowan – Rancho Road, Craig Road to Alexander Road and Alexander Branch (PV = 89.5)**

**GOAL 0100, 0111, GOA2 0000** – This project consists of 10’ x 8’ and 10’ x 6’ reinforced concrete box storm drain in Rancho Road from Alexander Road to Craig Road and 8’ x 6’ reinforced concrete box storm drain in Alexander Road from Rancho Road to Torrey Pines Drive. Design is programmed in FY 20/21 and construction funding is programmed in FY 23/24. The TYCP includes approximately \$11.4 million for this project.

**Gowan North – Gowan – Craig Road and US-95 (PV = 85.0)**

**GOAL 0168, 0247** – This project consists of 10’ x 7’ reinforced concrete box storm drain in Craig Road from Rancho Road to US-95 and open channel improvements along the west side of US-95 from Craig Road to Lone Mountain Road. Design is programmed in FY 22/23 and construction funding is programmed in FY 25/26. The TYCP includes approximately \$11.2 million for this project.

**Upper Northern LV Wash – Brent Drainage System – Durango Drive to El Capitan Way (PV = 80.5)**

**BRDB 0107, 0157** – This project consists of 8’ x 6’ reinforced concrete box storm drain in Brent Lane from Durango Drive to El Capitan Way and 12’ x 7’ reinforced concrete box storm drain in El Capitan Way from Brent Lane to O’Hare Avenue. Design is programmed in FY 19/20 and construction funding is programmed in FY 22/23. The TYCP includes approximately \$9.7 million for this project.

The funding programmed for the Upper Northern Las Vegas Wash, Central Basin and Gowan Planning Areas in Las Vegas totals approximately \$298.8 million on the TYCP.

**NORTH LAS VEGAS**  
Lower Northern Las Vegas Wash Planning Area  
Range Wash Planning Area and  
Lower Las Vegas Wash Planning Area  
Apex Planning Area

Projects being undertaken within these planning areas are being administered by either North Las Vegas, Las Vegas, or Clark County. A summary of the proposed program, along with major accomplishments for the City of North Las Vegas is shown on the attached map labeled “Lower North, Range, Lower Las Vegas Wash Basins and Apex Planning Area”. Projects completed or funded for construction since 1987 include:

**“A” Channel Three Bridges Project (Cheyenne Avenue, Las Vegas Boulevard, and Carey Avenue)**

**Ann Road, Allen Lane to Rancho Drive**  
Las Vegas is the Lead Entity

**Ann Road Channel East, ULVW to Fifth Street**

**Beltway Detention Basin, Collection and Outfall**

**Brooks Channel**

**Camino Al Norte Crossing**  
Part of the Western Tributary of the Las Vegas Wash (first developer participation contract with the District)

**Centennial Collector**

**Centennial Parkway Channel East**

**Central Freeway Channel at Cheyenne**

**Cheyenne Peaking Basin, Collection and Outfall – Alexander Road to Cheyenne Avenue**

**Colton Avenue Flood Control Improvements**

**Confluence Detention Basin**  
Clark County is the Lead Entity

**Fifth Street Collector, Centennial Parkway to Deer Springs Way**

**Freeway Channel – Owens Avenue to Miller Avenue – Phase I and Phase II**

***North Las Vegas (continued)***

**Hollywood System – Dunes South Detention Basin to Centennial Parkway, Phase I**

**Hollywood System, Phase II, Nellis Air Force Base Reach**

**Kyle Canyon Detention Basin**

**Las Vegas Wash Improvements and King Charles Diversion Project**  
From I-15 to Craig Road

**Las Vegas Wash – Las Vegas Boulevard to Cheyenne Avenue**

**Las Vegas Wash – Losee Road**

**Las Vegas Wash Main Branch – Las Vegas Boulevard to Lake Mead Boulevard**

**Las Vegas Wash – “N” Channel, Cheyenne to Gowan**

**Las Vegas Wash, Water Reclamation Channel**  
Clark County is the Lead Entity

**Lower Las Vegas Wash Detention Basin**  
A joint use recreation facility

**Oak Island Drive Storm Drain Improvements, Local Drainage Project**

**Orchard Detention Basin**  
Clark County is the Lead Entity

**Rancho Road System – Centennial Parkway to Rancho Road Detention Basin**  
Las Vegas is the Lead Entity

**Range Wash – Lamb Boulevard Storm Drain**

**Range Wash – Ann Branch Phase I**

**Simmons Street Channel**

**Simmons Street Drainage Improvements, Alexander Road to Gowan Outfall Channel**

**Simmons Street – Phase II, Carey to Cheyenne**

**Sloan Channel, Las Vegas Wash to Charleston Boulevard**  
Clark County is the Lead Entity

***North Las Vegas (continued)***

**Sloan Channel - Stewart Avenue to Charleston Boulevard**

Clark County is the Lead Entity

**Tributary to the Western Tributary at Alexander Road**

**Tributary to the Western Tributary at Craig Road (“A” Channel Craig Confluence)**

**Tropical Parkway Channel East**

**Upper Las Vegas Wash**

**Upper Las Vegas Wash Detention Basin and Diversion Dike**

Located on the Las Vegas Wash at the upstream area of the Las Vegas Valley

**Upper Las Vegas Wash, Craig Road to Elkhorn Road (Phase I – Centennial Parkway to Craig Road)**

**Vandenberg Detention Basin**

**Vandenberg North Detention Basin, Collection & Outfall – Phase I**

Clark County is the Lead Entity

**Washington Collection System**

Clark County is the Lead Entity

**West Range Wash Diversion Dike**

**Western Tributary of the Las Vegas Wash**

Camino Al Norte to Centennial Parkway (excluding the reach between the Lower Las Vegas Wash Detention Basin and Clayton Street)

**Western Tributary of the Las Vegas Wash**

From Alexander Road to north of Craig Road

District funding since 1987 for the projects plus design efforts on future projects total approximately \$339,699,698.

Projects proposed on the TYCP in hydrographic basin order with Priority Value (PV) include the following:

**Lower Northern LV Wash – LV Wash Craig – North Las Vegas Detention Basin Upgrade (PV = 77.0)**

**LVUP 0406** – This project will expand the existing North Las Vegas Detention Basin by approximately 960 acre-feet. Design is programmed in FY 20/21 and construction funding is programmed in FY 23/24. The TYCP includes approximately \$7.2 million for this project.

**Lower Northern LV Wash – Cheyenne Lamb Nellis – Lake Mead Drain to Las Vegas Wash (PV = 75.0)**

**LVLE 0000, 0047** – This project consists of 12' x 6' and 12' x 4' reinforced concrete box storm drain in Lake Mead Boulevard from the Las Vegas Wash-Middle Branch confluence at Pecos Road to just east of Civic Center Drive. Design is programmed in FY 20/21 and construction funding is programmed in FY 23/24. The TYCP includes approximately \$9.4 million for this project.

**Lower Northern LV Wash – Cheyenne Lamb Nellis – Las Vegas Boulevard Drain (PV = 72.5)**

**LVLV 0000** – This project consists of a dual 10' x 8' reinforced concrete box storm drain in Las Vegas Boulevard from the Las Vegas Wash to Pecos Road. Design is programmed in FY 23/24 and construction funding is programmed in FY 26/27. The TYCP includes approximately \$9.5 million for this project.

**Lower Northern LV Wash – Cheyenne Lamb Nellis – Las Vegas Wash Cartier Channel (PV = 81.5)**

**LVCC 0000, 0030, 0035** – This project consists of open channel improvements along Cartier Avenue from the Las Vegas Wash to Las Vegas Boulevard and 10' x 5' reinforced concrete box storm drain in Las Vegas Boulevard from Cartier Avenue to Lake Mead Boulevard. Design is programmed in FY 19/20 and construction funding is programmed in FY 22/23. The TYCP includes approximately \$7.6 million for this project.

**Range – Lower Range – Orchard Collector – Charleston Boulevard to Linden Avenue (PV = 82.0)**

**SLOR 0158** – This project consists of a soil cement lined levee that will extend south from the Linden Avenue alignment to Charleston Boulevard along the base of Sunrise Mountain. This facility will collect flows draining east off the mountain and convey them south of Charleston Boulevard to the Orchard Detention Basin. Design is underway. Construction funding is programmed in FY 22/23. The TYCP includes approximately \$3.2 million for this project.

***North Las Vegas (continued)***

**Range – Lower Range – Jim McGaughey (Formerly Owens) Detention Basin & Outfall (PV = 83.0)**

**SLWA 0130, 0150, 0151, 0152, 0153, 0175, SLOW 0000, 0005** – This project consists of an 88 acre-foot detention basin, spillway, open channel and reinforced concrete box storm drain collection facilities, and 24” to 36” diameter reinforced concrete outfall pipes discharging to the existing (SLWA) storm drain system west of Hollywood Boulevard. Design is underway. Right-of-Way Acquisition is programmed in FY 19/20 and construction funding is programmed in FY 21/22. The TYCP includes approximately \$15.0 million for this project.

**Range – Lower Range – Range Wash – Sloan Channel, Stewart Bridge (PV = 79.5)**

**RWSL 0187** – This project consists of replacing the existing Sloan Channel/Stewart Avenue eight cell 10’ x 3.5’ reinforced concrete box culvert crossing with an 80’ wide by 4’ deep bridge structure within the channel at Stewart Avenue to increase the conveyance capacity. Design is programmed in FY 22/23 and construction funding is programmed in FY 25/26. The TYCP includes approximately \$2.5 million for this project.

**Range – West Range – Nellis Storm Drain – Sloan Channel to Craig Road (PV = 68.5)**

**SLNL 0000, 0064** – This project includes dual 12’ x 11’ and 12’ x 10’ reinforced concrete box storm drain in Nellis Boulevard from the Range Wash – Sloan Channel to Craig Road. Design is programmed in FY 24/25 and construction funding is programmed in FY 27/28. The TYCP includes approximately \$24.5 million for this project.

**Range – West Range – Las Vegas Boulevard Storm Drain – Nellis Boulevard to Range Road (PV = 68.0)**

**SLLV 0000** – This project includes a 12’ x 10’ reinforced concrete box culvert in Las Vegas Boulevard from Range Road to Nellis Boulevard. Design is programmed in FY 25/26. Construction funding is programmed in FY 28/29. The TYCP includes approximately \$20.1 million for this project.

**Range – West Range – Range Wash – Beltway Conveyance (PV = 77.5)**

**RWBW 0035, 0037, 0066, 0083, RWWE 0518, 0520, 0550** – This project consists of open channel improvements on the north side of the CC 215 Beltway from the Pecos Road to Lamb Boulevard interchanges and from the Pecos Road to Losee Road interchanges. Design is programmed in FY 24/25. Construction funding is programmed in FY 27/28. The TYCP includes approximately \$15.1 million for this project.

**Range – West Range – Beltway Collection System – Pecos Road (PV = 79.0)**

**RWWE 0500, RWBW 0011, 0013** – This project consists of 16’ x 8’ and 10’ x 7’ reinforced concrete box storm drain within the infield area of the Pecos Road interchange. Design is programmed in FY 23/24 and construction funding is programmed in FY 25/26. The TYCP includes approximately \$4.2 million for this project.

*North Las Vegas (continued)*

**Range – West Range – Vandenberg North Detention Basin, Collection & Outfall – Phase 2 (PV = 88.0)**

**RWWE 0352, 0397, 0406, 0407, 0409, 0422, 0428, 0439, 0454** – This project includes a 319 acre-foot detention basin, spillway, reinforced concrete box storm drain and open channel collection facilities, and dual 38” x 24” horizontal elliptical reinforced concrete outlet pipes discharging to the existing (RWWE) storm drain system in Pecos Road. An 8’ x 7’ reinforced concrete box storm drain is also proposed in Pecos Road from Tropical Parkway to just south of Centennial Parkway. Design is underway. Construction funding is programmed in FY 19/20. The TYCP includes approximately \$32.6 million for this project.

**Range – East Range – Range Wash – Ann Branch Phase 2 (PV = 84.0)**

**RWAN 0001, 0050** – This project consists of a 12’ x 7’ reinforced concrete box storm drain extending west in Ann Road then north in Mt. Hood Street between Hollywood Boulevard and Tropical Parkway. Design is underway. Construction funding is programmed in FY 20/21. The TYCP includes approximately \$10.0 million for this project.

**Range – East Range – Hollywood System, Centennial Parkway to Speedway #2 Detention Basin (PV = 87.0)**

**RWHW 0300, 0355, 0369, 0410** – This project consists of providing an outfall facility from Speedway #2 retention basin. Outfall facilities include 78” and 84” diameter reinforced concrete pipe in Hollywood Boulevard from the basin, crossing I-15, to Centennial Parkway. Design is underway. Construction funding is programmed in FY 19/20. The TYCP includes approximately \$5.5 million for this project.

**Range – East Range – Speedway North Detention Basin and Outfall (PV = 59.0)**

**RWHW 0459, 0498, 0499, 0500** – This project consists of a 770 acre-foot detention basin, spillway, 54” and 66” outlet pipes extending to Speedway #2 Detention Basin. Design and Right-of-Way Acquisition are programmed in FY 26/27. The TYCP includes approximately \$3.3 million for this project.

**Apex – North Apex – System 1 Detention Basin and Outfall (PV = 72.0)**

**NAP1 0000, 0002, 0009, 0152, 0153, 0154** – This project consists of a 2,050 acre-foot detention basin at the northern end of the Apex Watershed. Outflow from the basin will drain easterly to an existing crossing under US-93. Design is programmed in FY 24/25, Right-of-Way Acquisition is programmed in FY 25/26, and construction funding is programmed in FY 27/28. The TYCP includes approximately \$32.6 million for this project.

The funding programmed for the Lower Northern Las Vegas Wash, Range Wash, and Lower Las Vegas Wash Planning Areas in North Las Vegas totals approximately \$202.3 million on the TYCP.

**CLARK COUNTY**

Duck Creek/Blue Diamond Planning Area  
Tropicana/Flamingo Planning Area  
Outlying Areas

A summary of the proposed program, along with major accomplishments for Clark County within the Las Vegas Valley is shown on the attached map labeled “Flamingo, Tropicana, Duck Creek, and Blue Diamond Planning Area”. Projects completed or funded for construction since 1987 include:

**Las Vegas Valley:**

**Annie Oakey Drive at Rawhide Channel Storm Drain, Local Drainage Project**

**Blue Diamond Channel, Jones Branch**

**Blue Diamond Channel – Rainbow Branch**

**Blue Diamond Wash South Rainbow, Pebble – Raven and Wigwam to Ford**

**Blue Diamond Wash Wigwam, Jones Boulevard to Rainbow Boulevard**

**Blue Diamond Wash Wigwam, UPRR to Jones Boulevard**

**Carey Avenue Storm Drain, Local Drainage Project**

**Desert Inn Detention Basin Collection System and Outfall**

**Duck Creek at Dean Martin**

**Duck Creek at Robindale Road**

**Duck Creek, Broadbent Boulevard Bridge and Channel**

**Duck Creek, Broadbent Boulevard to Boulder Highway**

**Duck Creek, Eldorado Lane to Spencer Street**

**Duck Creek, Emerald Avenue to Stephanie Street, Phase I**

**Duck Creek, Las Vegas Boulevard**

**Duck Creek, Lower Detention Basin to Silverado Ranch Boulevard**

**Duck Creek, Mountain Vista Street to Green Valley Parkway**



***Clark County (continued)***

**Duck Creek, Phase II and Lower Pittman**

**Duck Creek, Railroad Detention Basin**

**Duck Creek, Railroad near Warm Springs to Topaz Street**

**Duck Creek, Robindale to I-215**

**Duck Creek, Tomiyasu Lane to the Railroad near Warm Springs**

**Duck Creek, Tomiyasu Lane to Topaz Street**

**Duck Creek, Topaz Street to Eastern Avenue**

**Duck Creek, US-95 Branch**

**Durango Collector**

**Flamingo – Boulder Highway North, Sahara Avenue to Flamingo Wash**

**Flamingo Diversion – Jones Branch**

**Flamingo Diversion – Rainbow Branch**

**Flamingo Diversion – South Buffalo Branch, Flamingo Wash to Sunset Road**

**Flamingo Hacienda**

**Flamingo Wash at Boulder Highway**

**Flamingo Wash, Algonquin Drive to Maryland Parkway**

**Flamingo Wash, Boulder Highway to Mojave Road (Miracle Mile)**

**Flamingo Wash Bridges**

At Arville, Eastern, Paradise, and Palo Verde

**Flamingo Wash, Desert Inn to Eastern Avenue**

**Flamingo Wash, Eastern Avenue**

**Flamingo Wash, I-515 to Boulder Highway**

**Flamingo Wash, Nellis Boulevard to I-515**

***Clark County (continued)***

**Flamingo Wash, Spencer Street Bridge and Approach Channel**

**Hickam Avenue Storm Drain, Local Drainage Project**

**Lakes Detention Basin, Collection, and Outfall System**

A joint use recreation facility

**Las Vegas Blvd/Serene Avenue Storm Drain, Local Drainage Project**

**Las Vegas Wash – Sloan Channel to Stewart Avenue and Flamingo Wash below Nellis Boulevard (CC Segment)**

- The City of Las Vegas funds a segment of this project
- The City of North Las Vegas funds a segment of this project
- Clark County is the Lead Entity

**Lower Blue Diamond Detention Basin**

**Lower Blue Diamond Detention Basin Collector Channel**

**Lower Blue Diamond Detention Basin Outfall**

**Lower Duck Creek Detention Basin and Outfall Channel**

**Lower Flamingo Detention Basin**

**Olive Street Storm Drain, US-95 to Palm Street, Local Drainage Project**

**Rawhide Channel at Sagebrush Street**

**Rawhide Channel System**

**Red Coach Avenue/Cimarron Road Improvements, Local Drainage Project**

**Red Rock Channel, Naples Branch**

**Red Rock Channel, Naples Branch – Flamingo Connector**

**Sloan Channel, Las Vegas Wash to Charleston Boulevard**

**Sunrise Avenue Area Storm Drain, Local Drainage Project**

**Sunrise Avenue Storm Drain, Fogg Street to Clayton Street, Local Drainage Project**

***Clark County (continued)***

**Toiyabe Street Storm Drain, Local Drainage Project**

This project was collapsed into the Carey Street Storm Drain, Local Drainage Project

**Tomiyasu and La Casita Crossings of Duck Creek**

**Tropicana North Branch Detention Basin**

**Tropicana Wash at Swenson Street**

**Tunis Avenue and Karvel Street Storm Drain, Local Drainage Project**

**Twain at Pecos-McLeod Storm Drain, Local Drainage Project**

**Upper Duck Creek Detention Basin**

**Tropicana and Flamingo Washes Project:**

- **Blue Diamond and Red Rock Channels (Beltway Sections 7A, 7B, 8, and 9)**
- **Blue Diamond Channel – Durango Reach (Warm Springs Intersection)**
- **Blue Diamond Detention Basin**
- **F-1 Channel, Beltway to Hualapai Way**
- **F-1 and F-2 Debris Basins and Channels, Phase II**
- **F-4 Debris Basin and Channel**
- **F-4 Patrick Lane/Fort Apache Road Lateral**
- **Flamingo Detention Basin Expansion**
- **Lower Blue Diamond Channel**
- **Lower Flamingo Diversion Channel, Phase I (Tropicana Detention Basin to Jones Boulevard)**
- **Lower Red Rock Complex**
- **R-4 Detention Basin and Channel**

***Clark County (continued)***

- **Red Rock Channel (Beltway Section 10A)**
- **Red Rock Detention Basin Expansion**
- **Red Rock Detention Basin Scour Protection and Outfall Channel**
- **Tropicana Detention Basin and Outfall Channel**
- **Upper Blue Diamond Diversion Channel**
- **Upper Flamingo Detention Basin Expansion**
- **Upper Flamingo Diversion Channel, Phase II**

**Tropicana Wash Channel**

Paradise Road to Koval Lane

**Upper Flamingo Detention Basin and Outfall System**

**Van Buskirk Channel System**

**Washington/Hollywood Storm Drain, Local Drainage Project**

**Washington Collection System (Montridge Storm Drain)**

**Winnick Avenue Improvements**

On the Flamingo Wash

**Outlying Areas:**

**Bunkerville Detention Conveyance System (Windmill Wash)**

**Bunkerville – Windmill Wash Outfall**

**Cooper Crossing in Moapa Valley**

**Hiko Springs Detention Basin (SID and District funded)**

**Hiko Springs Outfall Channel**

**Indian Springs Detention Basin**

**Logan (Benson) Wash Improvements in Moapa Valley**

***Clark County (continued)***

**Muddy River, Cooper Street Bridge**

**Muddy River, Gubler Avenue Bridge**

**Muddy River Logandale Levee**

**Searchlight Flood Control Improvements**

**Searchlight – South, Encinitas St. Storm Drain**

**SR 163 at Casino Drive in Laughlin**

**Unnamed Wash Improvements in Laughlin**

District funding since 1987 for the projects plus design efforts of future projects total approximately \$575,663,270.

The projects proposed on the TYCP for Clark County within the Las Vegas Valley in hydrographic basin order with Priority Value (PV) include the following:

**Tropicana Flamingo Project – Blue Diamond – Buffalo Branch (PV = 71.5)**

**BDBF 0010, 0076, 0125** – This project consists of a reinforced concrete box storm drain ranging in size from 10' x 5' to 10' x 8' in Buffalo Drive from Badura Avenue to West Mesa Verde Lane. Design is programmed in FY 24/25 and construction funding is programmed in FY 27/28. The TYCP includes approximately \$12.2 million for this project.

**Tropicana Flamingo Project – Flamingo – Cimarron Branch (PV = 74.0)**

**FLCM 0003** – This project consists of 84" diameter reinforced concrete pipe storm drain parallel to Cimarron Road from Russell Road to Patrick Lane. Design is programmed in FY 22/23 and construction funding is programmed in FY 24/25. The TYCP includes approximately \$3.7 million for this project.

**Lower Flamingo – Wagon Trail Channel – Sunset Road to Teco Avenue (PV = 81.5)**

**WGTR 0111** – This project includes a 10' x 5' reinforced concrete box storm drain in Procyon Street extending from Teco Avenue to Sunset Road. Design is underway. Construction funding is programmed in FY 20/21. The TYCP includes approximately \$1.4 million for this project.

**Lower Flamingo – Flamingo Wash, Maryland Parkway to Palos Verde Street (PV = 81.5)**

**FLWA 0621, 0673** – This project consists of open channel improvements along the Flamingo Wash from Maryland Parkway to Cambridge Street and from Swenson Street to Palos Verde Street. Design is underway. Construction funding is programmed in FY 20/21. The TYCP includes approximately \$3.0 million for this project.

***Clark County (continued)***

**Lower Flamingo – Las Vegas Wash – Christy (PV = 70.5)**

**LVCH 0037, 0114** – This project consists of a 12' x 10' and 10' x 9' reinforced concrete box storm drain in Christy Lane from the Las Vegas Wash to Bonanza Road. Design is programmed in FY 24/25 and construction funding is programmed in FY 27/28. The TYCP includes approximately \$24.9 million for this project.

**Lower Flamingo – Flamingo Wash Maryland – UNLV (PV = 72.5)**

**FLMR 0000** – This project consists of 84" diameter reinforced concrete pipe in Maryland Parkway from the Flamingo Wash to University Road. Design is programmed in FY 23/24 and construction funding is programmed in FY 25/26. The TYCP includes approximately \$6.9 million for this project.

**Lower Flamingo – Airport Channel – Naples Channel and Peaking Basin (PV = 87.0)**

**TRMC 0013, 0014, 0031, 0033** – This project consists of open channel improvements along an alignment west of Paradise Road from Harmon Avenue to Tropicana Avenue, a 170 acre-feet McCarran Airport Peaking Basin, and 36" diameter reinforced concrete outfall pipe. Design is underway. Construction funding is programmed in FY 19/20. The TYCP includes approximately \$26.7 million for this project.

**Lower Flamingo – Vegas Valley Drive – Flamingo Wash to Burnham Avenue (PV = 72.0)**

**VAVD 0000, 0025** – This project includes a 7' x 5' reinforced concrete box storm drain and 84" diameter reinforced concrete pipe in Vegas Valley Drive extending from the Flamingo Wash to Burnham Avenue. Design is programmed in FY 23/24 and construction funding is programmed in FY 26/27. The TYCP includes approximately \$9.9 million for this project.

**Lower Flamingo – Flamingo Wash, Industrial Road to Hotel Rio Drive (PV = 83.5)**

**FLWA 0893, 0896** – This project consists of gabion channel improvements in the Flamingo Wash between the Union Pacific Railroad and Hotel Rio Drive. Design is underway. Construction funding is programmed in FY 19/20. The TYCP includes approximately \$1.4 million for this project.

**Lower LV Wash Tributaries – Tropicana Avenue Conveyance – Morris Street to Mountain Vista Street (PV = 74.0)**

**LV01 0151, 0176** – This project includes a 7' x 6' reinforced concrete box storm drain and 66" diameter reinforced concrete pipe in Tropicana Avenue from Morris Street to Mountain Vista Street. Design is programmed in FY 21/22 and construction funding is programmed in FY 24/25. The TYCP includes approximately \$6.0 million for this project.

**Lower LV Wash Tributaries – Tropicana Avenue Conveyance – Boulder Highway to Morris Street (PV = 75.5)**

**LV01 0135** – This project includes a 10' x 7' reinforced concrete box storm drain in Tropicana Avenue extending from Boulder Highway to Morris Street. Design is programmed in FY 20/21 and construction funding is programmed in FY 23/24. The TYCP includes approximately \$3.9 million for this project.

***Clark County (continued)***

**Lower LV Wash Tributaries – Tropicana Avenue Conveyance – Las Vegas Wash to Boulder Highway (PV = 81.5)**

**LV01 0001, 0038, 0080, 0118** – This project includes earthen channel improvements west of the Wetlands park between Duck Creek Wash and the Tropicana Avenue alignment, 7' x 8' and 14' x 7' reinforced concrete box storm drain in Tropicana Avenue extending from the Wetlands Park to Boulder Highway. Design is underway. Additional design funding is programmed in FY 19/20 and construction funding is programmed in FY 20/21. The TYCP includes approximately \$19.6 million for this project.

**Lower LV Wash Tributaries – Las Vegas Wash – Branch 02, Monson Channel – Las Vegas Wash to Boulder Highway (PV = 69.5)**

**LV02 0001, 0125, 0127, 0209, 0273, 0282, 0294** – This project consists of open channel improvements south of the Clark County Water Reclamation District extending west from the Las Vegas Wash to Jimmy Duarte Boulevard, then north in Jimmy Duarte Boulevard to Flamingo Road. Existing bridge structures along Flamingo Road at Flamingo Road/Jimmy Duarte Boulevard, Canal Street, and an existing driveway west of Canal Street will be replaced. An additional 6' x 4' reinforced concrete box culvert will be added under Nellis Boulevard at Flamingo Road. Design is programmed in FY 24/25 and construction funding is programmed in FY 27/28. The TYCP includes approximately \$19.6 million for this project.

**Blue Diamond Tributaries – Blue Diamond Wash – Arville Street to I-15 (PV = 83.0)**

**BDWA 0276** – This project includes a 72" diameter reinforced concrete pipe storm drain in Robindale Road from the I-15 to Arville Street. Design is underway. Construction funding is programmed in FY 20/21. The TYCP includes approximately \$5.8 million for this project.

**Blue Diamond Tributaries – Duck Creek/Blue Diamond, Bermuda Road to Las Vegas Boulevard (PV = 80.5)**

**DCBD 0075, 0082, 0084** – This project includes 12' x 9' and dual 14' x 6' reinforced concrete box culverts along Duck Creek – Blue Diamond Wash extending from Bermuda Road to Fairfield Avenue and open channel improvements extending from Fairfield Avenue to Las Vegas Boulevard. Design is underway. Construction funding is programmed in FY 21/22. The TYCP includes approximately \$5.7 million for this project.

**Blue Diamond Tributaries – Blue Diamond Channel, Amigo Street to Haven Street (PV = 78.5)**

**BDWA 0087, 0111, 0113, 0137, 0139, 0174, 0175** – This project includes 10' x 4' and 10' x 6' reinforced concrete box storm drain along Blue Diamond Wash between Amigo Street and Rancho Destino Road and riprap channel improvements between Rancho Destino Road and Haven Street. Design and Right-of-Way Acquisition are programmed in FY 20/21. Construction funding is programmed in FY 23/24. The TYCP includes approximately \$10.1 million for this project.

***Clark County (continued)***

**Upper Duck Creek – Duck Creek Jones Boulevard (PV = 91.0)**

**DCJB 0000, 0043** – This project consists of 12' x 6' and 9' x 6' reinforced concrete box storm drain in Jones Boulevard from Pyle Avenue to Irvin Avenue and will be constructed as part of Regional Transportation Commission of Southern Nevada Jones – Cactus to Blue Diamond project. Design is underway. Construction funding is programmed in FY 19/20. The TYCP includes approximately \$2.2 million for this project.

**Upper Duck Creek – Silverado Ranch Detention Basin and Outfall Facilities (PV = 91.0)**

**BD02 0125, 0151, 0177, 0265, 0277, 0312, 0359, 0385** – This project consists of a 294 acre-foot detention basin, 6' x 6' to 10' x 7' reinforced concrete box collection facilities, and a 72" diameter reinforced concrete pipe outlet southeast of the Silverado Ranch Boulevard/Decatur Boulevard intersection. Basin outflow will discharge to a proposed 7' x 4' reinforced concrete box storm drain in Silverado Ranch Boulevard extending east to the I-15, then north within open channel improvements along the I-15 to existing facility BD02 0098 at Meranto Avenue. Design is underway. Construction funding is programmed in FY 19/20. The TYCP includes approximately \$22.3 million for this project.

**Upper Duck Creek – Blue Diamond Channel 02, Decatur – Le Baron Avenue to Richmar Avenue (PV = 91.0)**

**BD02 0334** – This project consists of 8' x 6' reinforced concrete box storm drain in Decatur Boulevard from Richmar Avenue to the Silverado Ranch Detention Basin inlet facility (BD01 0312) and will be constructed as part of the Regional Transportation Commission of Southern Nevada Decatur, Cactus to Warm Springs project. Construction funding is programmed in FY 19/20. The TYCP includes approximately \$3.5 million for this project.

**Upper Duck Creek – Blue Diamond Wash Railroad (PV = 77.0)**

**BDW5 0026** – This project consists of open channel improvements adjacent to a Union Pacific Railroad spur that extends from Rainbow Boulevard to Blue Diamond Road. Design and Right-of-Way Acquisition is programmed in FY 20/21. Construction funding is programmed in FY 23/24. The TYCP includes approximately \$6.6 million for this project.

**Lower Duck Creek – Duck Creek, Sunset Park (PV = 79.5)**

**DCSP 0000, 0115** – This project consists of a 12' x 8' reinforced concrete box storm drain in Sunset Road from Duck Creek Wash to Tomiyasu Lane and a 12' x 5' reinforced concrete box storm drain extending southwesterly along Sunset Park from Sunset Road to Eastern Avenue. Design is programmed in FY 19/20 and construction funding is programmed in FY 22/23. The TYCP includes approximately \$23.8 million for this project.

**Central Duck Creek – Duck Creek Haven Street (PV = 91.0)**

**DCHV 0026, 0050, 0057** – This Regional Transportation Commission of Southern Nevada project consists of reinforced concrete box storm drain ranging in size from 8' x 4' to 10' x 4' in Haven Street from Pyle Avenue to Cactus Avenue. Construction



***Clark County (continued)***

funding is programmed in FY 19/20. The TYCP includes approximately \$3.5 million for this project.

**Central Duck Creek – Duck Creek Wash, Torrey Pines Drive to Rainbow Boulevard (PV = 91.0)**

**DCWA 1827** – This Developer Participation project consists of open channel improvements in Duck Creek Wash extending from an existing bridge at the Union Pacific Railroad to existing facility DCWA 1869 near the intersection of Starr Avenue/Rainbow Boulevard. Construction funding is programmed in FY 19/20. The TYCP includes approximately \$0.60 million for this project.

The funding programmed for the Duck Creek/Blue Diamond and Tropicana/Flamingo Planning Areas in Clark County (Las Vegas Valley) totals approximately \$223.3 million on the TYCP.

***Clark County (continued)***

The projects proposed on the TYCP for the Outlying Areas of Clark County include the following:

**Goodsprings – Goodsprings – Phase I**

**GSEA 0000, GSPA 0027, 0029, GSRV 0019** – This project consists of a riprap channel improvement along Pacific Street, Revere Street, then within a natural watercourse north of Main Street that discharges east of Fayle Street. Design is underway. Additional Design, Right-of-Way Acquisition and construction funding are programmed in FY 19/20. The TYCP includes approximately \$1.0 million for this project.

**Muddy River and Tributaries – Fairgrounds – Detention Basin (Whipple Street)**

**FGWS 0000, 0075, 0105, 0128, 0164, 0165, 0166** – This project consists of a 139 acre-foot detention basin, spillway, and 36” diameter reinforced concrete pipe outfall facility located approximately 0.5 miles north of the Whipple Avenue/Heyer Street intersection. Basin outflow will discharge to proposed 48” and 54” diameter reinforced concrete pipes and a 7’ x 5’ reinforced concrete box storm drain in Whipple Street and ultimately to the Muddy River. Design is underway. Construction funding is programmed in FY 19/20. The TYCP includes approximately \$11.2 million for this project.

**Muddy River and Tributaries – Muddy River – Cooper Lane to Yamashita Street**

**MRLV 0395, 0423, 0424, 0442, 0443, 0458, 0459, 0507, 0508** – This project consists of earthen channel improvements with riprap lined banks within the Muddy River from Yamashita Street to approximately 800’ south of Ramos Ranch and west of Cooper Lane. Design is underway. Additional Design and Right-of-Way Acquisition are programmed in FY 21/22 and construction funding is programmed in FY 24/25. The TYCP includes approximately \$17.0 million for this project.

**Muddy River and Tributaries – Ryan Avenue to Lewis Street**

**MRLV 0198, 0240, 0268, 0276** – This project consists of earthen channel improvements within the Muddy River from Lewis Street to approximately 400’ north of the Ryan Avenue alignment. Design is underway. Additional design is programmed in FY 25/26 and construction funding is programmed in FY 28/29. The TYCP includes approximately \$18.8 million for this project.

**Mount Charleston – Rainbow Canyon Boulevard Bridge**

**MTCH 0001** – This project consists of a new bridge structure for Rainbow Canyon Boulevard, just south of Kyle Canyon Road. Design is programmed in FY 24/25 and construction funding is programmed in FY 27/28. The TYCP includes approximately \$1.5 million for this project.

***Clark County (continued)***

**Laughlin – Bridge Canyon Detention Basin**

**LUHS 0415, 0416, 0417** – This project consists of a 1,104 acre-feet detention basin, spillway, and 48” reinforced concrete pipe outlet facility, located west of Needles Highway and south of SR 163. Basin outflow will discharge to a proposed concrete channel and ultimately to an existing wash and the Hiko Springs Wash Detention Basin. Design is programmed in FY 23/24 and construction funding is programmed in FY 26/27. The TYCP includes approximately \$13.5 million for this project.

**Laughlin – Hiko Detention Basin Expansion**

**LUHS 0244** – This project consists of expansion to the Hiko Springs Detention Basin by 310 acre-feet to accommodate diversion of the Bridge Canyon flow. Design is programmed in FY 19/20 and construction funding is programmed in FY 22/23. The TYCP includes approximately \$2.0 million for this project.

**Searchlight – West – State Highway 164**

**SRWE 0001, 0005, 0023** – This project consists of 5: 8’ x 7’ reinforced concrete box culverts under State Highway 164 and approximately 0.5 mile of riprap lined channel extending east to existing culverts under US-95. Design is programmed in FY 19/20 and construction funding is programmed in FY 20/21. The TYCP includes approximately \$0.80 million for this project.

**Searchlight – West**

**SRWE 0049, 0068, 0091** – This project consists of 54” and 42” diameter reinforced concrete pipes extending from US-95, northeasterly within minor streets, to the intersection of Lincoln Street and Indian Street and a 5’ high riprap levee extending east along Indian Street to Nevada Street. Design is programmed in FY 22/23 and construction funding is programmed in FY 24/25. The TYCP includes approximately \$1.6 million for this project.

**Bunkerville – Jesse Waite Wash Diversion Dike**

**JEWA 0166** – This project consists of upgrading the existing Jess Waite Wash Diversion Dike from 6’ to 8’ high, which is located north of the Jess Waite sediment basin. Design is underway and construction funding is programmed in FY 19/20. The TYCP includes approximately \$1.6 million for this project.

The TYCP for the Outlying Areas of Clark County totals approximately \$69.0 million.

In all, among the Tropicana/Flamingo, Duck Creek, Blue Diamond, and Outlying Planning Areas, Clark County has programmed approximately \$292.3 million for flood control facilities over the next ten years.

**BOULDER CITY**

Projects completed or funded for construction since 1987 include:

**Bootleg Canyon Detention Basin Outfall**

**Bootleg Canyon Detention Basin, Phase II**

**Buchanan Boulevard Channel**

**Buchanan Boulevard, Phase III Improvements**

**Buchanan Watershed Facilities**

**Georgia Avenue Channel**

**Hemenway Wash Improvements**

A joint use recreation facility

**Hemenway System, Phase IIA Improvements**

**Industrial Road Facilities**

**North Railroad Conveyance Phase I and Phase II**

**Valley View and DD Facilities**

**Veteran's Memorial Detention Basin**

**Ville Drive Flood Control Improvements**

**West Airport Facilities**

**West Airport Watershed, including West Adams Boulevard and Georgia Avenue Improvements**

**Yucca Debris Basin, Collection and Outfall**

**Yucca Street Drainage**

District funding since 1987 for the projects plus design efforts of future projects total approximately \$33,213,109.

The project proposed on the TYCP for Boulder City in hydrographic basin order is the following:

**Georgia/Buchanan – Avenue 1 Storm Drain**

**GBGR 0189, 0204, 0216, 0218 0302** – This project consists of dual 78” diameter reinforced concrete pipes generally parallel to Georgia Avenue, extending north from Highland Drive and under Adams Boulevard, a 78” and 66” diameter reinforced concrete pipe in Avenue I and Seventh Street, respectively, between Avenue G and Adams Boulevard, which will replace existing undersized facilities. Design is programmed in FY 22/23 and construction funding is programmed in FY 25/26. The TYCP includes approximately \$5.4 million for this project.

**Georgia/Buchanan – Georgia Buchanan Confluence Facilities**

**GBGR 0003, GBBC 0020** – This project consists of concrete open channel improvements along Georgia Avenue and Buchanan Boulevard which will connect existing upstream channel (GBGR 0040) to existing downstream culverts (GBBC 0015). Design is programmed in FY 21/22 and construction funding is programmed in FY 24/25. The TYCP includes approximately \$2.6 million for this project.

**Georgia/Buchanan – Georgia Avenue Facilities – Vaquero Drive Bridge**

**GBGR 0099** – This project consists of a free span bridge crossing at Vaquero Drive and Georgia Avenue. Design is programmed in FY 27/28 and construction funding is programmed in FY 28/29. The TYCP includes approximately \$1.2 million for this project.

**Hemenway – Hemenway System, Phase IIB Improvements**

**HMWA 0005, 0105, 0200, 0201, 0202, HMLV 0004, 0006** – This project consists of improvements to the existing Hemenway Channel on the north side of US-93, a 0.43 ac-ft sediment basin and associated collection and outlet facilities near Katzenbach and US-93, and concrete channel improvements within an existing wash, north of Fire Agate Drive, extending south approximately 700’ from US-93. Design is underway. Construction funding is programmed in FY 21/22. The TYCP includes approximately \$4.4 million for this project.

**North Railroad – Wells Drive Levee Lining**

**NRIN 0088** – This project consists of providing riprap lining to the existing unlined Wells Drive Levee. Design is programmed in FY 19/20 and construction funding is programmed in FY 22/23. The TYCP includes approximately \$0.30 million for this project.

**West Airport – West Airport Facilities**

**WAAP 0036, 0076, 0077** – This project consists of concrete channel improvements extending from the Boulder City Municipal Airport to the I-11 Freeway. Design is programmed in FY 27/28. The TYCP includes approximately \$0.30 million for this project.

The funding programmed for Boulder City totals approximately \$14.2 million on the TYCP.

**MESQUITE**

City of Mesquite projects completed or funded for construction since 1987 include:

**Abbott Wash Conveyance System, Pioneer Boulevard to the Virgin River**

**Town Wash Conveyance, I-15 to the Virgin River**

**Town Wash Detention Basin**

District funding since 1987 for these projects plus design efforts of future projects totals approximately \$25,815,050.

The projects proposed on the TYCP for Mesquite in hydrographic basin order include the following:

**Town Wash – Town Wash – Mesa Boulevard, El Dorado Road to Town Wash**

**TWMB 0000, 0022, 0024, 0044, TOWA 0120** – This project consists of concrete channel improvements within the I-15 Freeway corridor extending approximately 2,400 linear feet northeast from Town Wash and 12' x 7' reinforced concrete box culvert extending north to the intersection of Mesa Boulevard and El Dorado Road. Design is underway. Construction funding is programmed in FY 19/20. The TYCP includes approximately \$5.0 million for this project.

**Town Wash – Town Wash Mesa Boulevard, El Dorado Road to Chaparral Drive**

**TWMB 0052, 0084, 0094** – This project consists of 7' x 7' reinforced concrete box storm drain in Mesa Boulevard from El Dorado Road to Chaparral Drive and 78" diameter reinforced concrete pipe in Chaparral Drive from El Dorado Road to Vista Del Sol just south of the golf course. Design is programmed in FY 21/22 and construction funding is programmed in FY 24/25. The TYCP includes approximately \$8.9 million for this project.

**Virgin River – Virgin River Flood Wall**

**VREC 0000** – This project includes approximately 4,300 linear feet of 17' high flood wall along the eastern edge of the City of Mesquite near Old Mill Road, extending southwest toward Mesquite Boulevard. Design is underway. Construction funding is programmed in FY 22/23. The TYCP includes approximately \$8.6 million for this project.

**Virgin River – Virgin River Erosion Protection, Phase I**

**VREC 0203, 0323, 0508, 0519** – This project includes soil cement erosion protection at various locations along the south side of the City of Mesquite. Design is programmed in FY 20/21 and construction funding is programmed in FY 23/24. The TYCP includes approximately \$1.2 million for this project.

The funding programmed for Mesquite totals approximately \$23.7 million on the TYCP.

<b>Fiscal Year 2020 Project List</b>
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The first year of the TYCP comprises the recommended FY 2020 Project List. It should be noted that construction and right-of-way funds programmed in FY 2021 and FY 2022 are eligible to be funded if they meet the criteria presented in Sections II.B.9.b of the District's Policies and Procedures Manual. To meet these criteria construction projects must have ninety percent (90%) of design complete; have all right-of-entry for construction purposes obtained; and have all necessary permits, including environmental. For right-of-way, adequate design must have been completed to define right-of-way needs. Acceleration of funding in this manner cannot result in the delay of designs programmed in the first year and is dependent upon actual fund availability. Projects programmed in the first year total \$168.7 million. Projects eligible for funding in FY 2020 total \$287.2 million. These projects will be primarily funded from the estimated quarter percent Sales Tax Revenues. Projected revenue for the first year is \$239.0 million. Determining funding eligibility according to this policy allows for full expenditure of available resources annually in the event that some projects should suffer unexpected delays.

Other projects may also begin which are programmed throughout the TYCP if policies regarding Entity Advanced Funding and Funding Resolutions are exercised in accordance with Sections II.D.5 & 6 of the Policies and Procedures Manual.

The projects eligible for funding in FY 2020 are as follows:

**Henderson (Pittman Wash and C-1 Planning Areas):**

**Pittman Burns – Galleria Drive to Sunset Road (PV = 95.0)**

**PTSU 0000, 0008, 0023, 0028, 0032** – This Developer Participation project consists of 16' x 8' to 20' x 8' reinforced concrete box storm drain and concrete channel that will collect flows in Burns Avenue and convey them to the existing Weisner Channel near Burns Avenue and Galleria Drive. Construction funding is programmed in FY 19/20. FY 2020 eligible funding is approximately \$1.5 million for this project.

**Lower Pittman – Whitney Ranch Channel Replacement Project (PV = 91.5)**

**WWDC 0001, 0016, 0031, 0034, 0053, 0056** – This project consists of increasing the conveyance capacity of the Whitney Wash Channel between the Pittman Wash – Duck Creek Channel to approximately 900' east of the Whitney Mesa Estates Channel (WWDC 0084). The existing trapezoidal concrete channel will be replaced with a larger rectangular concrete channel between the Pittman Wash – Duck Creek Channel and Whitney Ranch Drive and an 18' x 5' reinforced concrete box culvert between Whitney Ranch Drive and the Whitney Mesa Estates Channel. A 20' x 6' reinforced concrete box culvert is proposed under Whitney Ranch Drive and an 18' x 5' reinforced concrete box culvert under Galleria Drive. Design is underway and construction funding is programmed in FY 20/21. FY 2020 eligible funding is approximately \$6.5 million for this project.

***FY 2020 Project List (continued)***

**Lower Pittman – Whitney Ranch Channel Replacement Project, Phase II (PV = 91.5)**

**WWDC 0070** – This project consists of connecting the initial phase of this channel replacement project (WWDC 0056) to the existing Whitney Mesa Estates Channel (WWDC 0084) via an 18' x 5' reinforced concrete box storm drain. Design is underway and construction funding is programmed in FY 21/22. FY 2020 eligible funding is approximately \$1.7 million for this project.

**Pittman Pabco – Boulder Highway Crossing at Water Street (PV = 94.0)**

**PTPA 0285, 0286** – This Developer Participation projects consists of 6' x 6' to 7' x 6' reinforced concrete box storm drain crossing under Boulder Highway at Water Street. Construction funding is programmed in FY 19/20. FY 2020 eligible funding is approximately \$0.70 million for this project.

**Total Programmed First Year:     \$ 2,195,658**

**Total Eligible First Year:         \$10,406,748**

**Las Vegas (Upper Northern Las Vegas Wash, Gowan and Central Basin Planning Areas):**

**Central – LV Wash I-15 Tributary – Lake Mead – Carey – Lake Mead Detention Basin Outfall (PV = 89.5)**

**LVLM 0221** – This project consists of a 48" diameter reinforced concrete pipe outlet from the Carey – Lake Mead Detention Basin connecting to existing storm drain in Carey Avenue. Design is programmed in FY 19/20 and construction funding is programmed in FY 20/21. FY 2020 eligible funding is approximately \$0.10 million for this project.

**Sahara Boulder Highway – Flamingo – Boulder Highway North, Charleston – Boulder Highway to Maryland Parkway and Maryland Parkway System (PV = 90.0)**

**FLBN 0170, 0180, 0205, 0275, 0280 & FLMP 0000, 0013, 0042, 0068** – This project consists of 42" diameter reinforced concrete pipe, 6' x 4', and 12' x 4' reinforced concrete box storm drain in Maryland Parkway and 13<sup>th</sup> Street between Charleston Boulevard and Stewart Avenue, and 10' x 6' to 18' x 8' reinforced concrete box storm drain in Charleston Boulevard from Boulder Highway to 13<sup>th</sup> Street. Design is underway. Construction funding is programmed in FY 19/20. FY 2020 eligible funding is approximately \$44.0 million for this project.

**Gowan North – Gowan Outfall – Alexander Road, Decatur Boulevard to Simmons Street (PV = 90.0)**

**GOOF 0275, 0285, 0325, 0375** – This project consists of a reinforced concrete box storm drain ranging in size from dual 12' x 8' to dual 16' x 8' in Alexander Road from Simmons Street to Decatur Boulevard. Design is underway. Construction funding is programmed in FY 20/21. FY 2020 eligible funding is approximately \$27.9 million for this project.



***FY 2020 Project List (continued)***

**Gowan North – Gowan Outfall – El Capitan Branch, Ann Road to Centennial Parkway (PV = 87.0)**

**GOEC 0100, 0126, 0152, 0176** – This project consists of 78” diameter reinforced concrete pipe storm drain and reinforced concrete box storm drain ranging in size from 7’ x 6’ to 10’ x 7’ in El Capitan Way from Ann Road to Centennial Parkway. Design is underway. Construction funding is programmed in FY 21/22. FY 2020 eligible funding is approximately \$7.6 million for this project.

**Gowan North – Gowan – Alexander Road, Rancho Road to Decatur Boulevard (PV = 87.5)**

**GOAL 0000, 0056** – This project consists of 19’ x 6’ and 14’ x 6’ reinforced concrete box storm drain in Alexander Road from Decatur Boulevard to Rancho Road. Design is underway. Construction funding is programmed in FY 21/22. FY 2020 eligible funding is approximately \$10.5 million for this project.

**Upper Northern LV Wash – Brent Drainage System – Durango Drive to El Capitan Way (PV = 80.5)**

**BRDB 0107, 0157** – This project consists of 8’ x 6’ reinforced concrete box storm drain in Brent Lane from Durango Drive to El Capitan Way and 12’ x 7’ reinforced concrete box storm drain in El Capitan Way from Brent Lane to O’Hare Avenue. Design is programmed in FY 19/20 and construction funding is programmed in FY 22/23. FY 2020 eligible funding is approximately \$0.90 million for this project.

**Total Programmed First Year:      \$44,932,769**

**Total Eligible First Year:          \$90,992,484**

**North Las Vegas (Lower Northern Las Vegas Wash, Range Wash, and Lower Las Vegas Wash Planning Areas):**

**Lower Northern LV Wash – Cheyenne Lamb Nellis – Las Vegas Wash Cartier Channel (PV = 81.5)**

**LVCC 0000, 0030, 0035** – This project consists of open channel improvements along Cartier Avenue from the Las Vegas Wash to Las Vegas Boulevard and 10’ x 5’ reinforced concrete box storm drain in Las Vegas Boulevard from Cartier Avenue to Lake Mead Boulevard. Design is programmed in FY 19/20 and construction funding is programmed in FY 22/23. FY 2020 eligible funding is approximately \$0.70 million for this project.

**Range – Lower Range – Jim McGaughey (Formerly Owens) Detention Basin & Outfall (PV = 83.0)**

**SLWA 0130, 0150, 0151, 0152, 0153, 0175, SLOW 0000, 0005** – This project consists of an 88 acre-foot detention basin, spillway, open channel and reinforced concrete box storm drain collection facilities, and 24” to 36” diameter reinforced concrete outfall pipes discharging to the existing (SLWA) storm drain system west of Hollywood Boulevard.

***FY 2020 Project List (continued)***

Design is underway. Right-of-Way Acquisition is programmed in FY 19/20 and construction funding is programmed in FY 21/22. FY 2020 eligible funding is approximately \$15.0 million for this project.

**Range – West Range – Vandenberg North Detention Basin, Collection & Outfall – Phase 2 (PV = 88.0)**

**RWWE 0352, 0397, 0406, 0407, 0409, 0422, 0428, 0439, 0454** – This project includes a 319 acre-foot detention basin, spillway, reinforced concrete box storm drain and open channel collection facilities, and dual 38” x 24” horizontal elliptical reinforced concrete outlet pipes discharging to the existing (RWWE) storm drain system in Pecos Road. An 8’ x 7’ reinforced concrete box storm drain is also proposed in Pecos Road from Tropical Parkway to just south of Centennial Parkway. Design is underway. Construction funding is programmed in FY 19/20. FY 2020 eligible funding is approximately \$32.6 million for this project.

**Range – East Range – Range Wash – Ann Branch Phase 2 (PV = 84.0)**

**RWAN 0001, 0050** – This project consists of a 12’ x 7’ reinforced concrete box storm drain extending west in Ann Road then north in Mt. Hood Street between Hollywood Boulevard and Tropical Parkway. Design is underway. Construction funding is programmed in FY 20/21. FY 2020 eligible funding is approximately \$10.0 million for this project.

**Range – East Range – Hollywood System, Centennial Parkway to Speedway #2 Detention Basin (PV = 87.0)**

**RWHW 0300, 0355, 0369, 0410** – This project consists of providing an outfall facility from Speedway #2 retention basin. Outfall facilities include 78” and 84” diameter reinforced concrete pipe in Hollywood Boulevard from the basin, crossing I-15, to Centennial Parkway. Design is underway. Construction funding is programmed in FY 19/20. FY 2020 eligible funding is approximately \$5.5 million for this project.

**Total Programmed First Year:     \$39,542,403**

**Total Eligible First Year:         \$63,803,693**

**Clark County (Las Vegas Valley)**

**(Duck Creek/Blue Diamond and Tropicana/Flamingo Planning Areas):**

**Lower Flamingo – Wagon Trail Channel – Sunset Road to Teco Avenue (PV = 81.5)**

**WGTR 0111** – This project includes a 10’ x 5’ reinforced concrete box storm drain in Procyon Street extending from Teco Avenue to Sunset Road. Design is underway. Construction funding is programmed in FY 20/21. FY 2020 eligible funding is approximately \$1.4 million for this project.

***FY 2020 Project List (continued)***

**Lower Flamingo – Flamingo Wash, Maryland Parkway to Palos Verde Street (PV = 81.5)**  
**FLWA 0621, 0673** – This project consists of open channel improvements along the Flamingo Wash from Maryland Parkway to Cambridge Street and from Swenson Street to Palos Verde Street. Design is underway. Construction funding is programmed in FY 20/21. FY 2020 eligible funding is approximately \$3.0 million for this project.

**Lower Flamingo – Airport Channel – Naples Channel and Peaking Basin (PV = 87.0)**  
**TRMC 0013, 0014, 0031, 0033** – This project consists of open channel improvements along an alignment west of Paradise Road from Harmon Avenue to Tropicana Avenue, a 170 acre-feet McCarran Airport Peaking Basin, and 36” diameter reinforced concrete outfall pipe. Design is underway. Construction funding is programmed in FY 19/20. FY 2020 eligible funding is approximately \$26.7 million for this project.

**Lower Flamingo – Flamingo Wash, Industrial Road to Hotel Rio Drive (PV = 83.5)**  
**FLWA 0893, 0896** – This project consists of gabion channel improvements in the Flamingo Wash between the Union Pacific Railroad and Hotel Rio Drive. Design is underway. Construction funding is programmed in FY 19/20. FY 2020 eligible funding is approximately \$1.4 million for this project.

**Lower LV Wash Tributaries – Tropicana Avenue Conveyance – Las Vegas Wash to Boulder Highway (PV = 81.5)**  
**LV01 0001, 0038, 0080, 0118** – This project includes earthen channel improvements west of the Wetlands park between Duck Creek Wash and the Tropicana Avenue alignment, 7’ x 8’ and 14’ x 7’ reinforced concrete box storm drain in Tropicana Avenue extending from the Wetlands Park to Boulder Highway. Design is underway. Additional design funding is programmed in FY 19/20 and construction funding is programmed in FY 20/21. FY 2020 eligible funding is approximately \$19.6 million for this project.

**Blue Diamond Tributaries – Blue Diamond Wash – Arville Street to I-15 (PV = 83.0)**  
**BDWA 0276** – This project includes a 72” diameter reinforced concrete pipe storm drain in Robindale Road from the I-15 to Arville Street. Design is underway. Construction funding is programmed in FY 20/21. FY 2020 eligible funding is approximately \$5.8 million for this project.

**Blue Diamond Tributaries – Duck Creek/Blue Diamond, Bermuda Road to Las Vegas Boulevard (PV = 80.5)**  
**DCBD 0075, 0082, 0084** – This project includes 12’ x 9’ and dual 14’ x 6’ reinforced concrete box culverts along Duck Creek - Blue Diamond Wash extending from Bermuda Road to Fairfield Avenue and open channel improvements extending from Fairfield Avenue to Las Vegas Boulevard. Design is underway. Construction funding is programmed in FY 21/22. FY 2020 eligible funding is approximately \$5.7 million for this project.

***FY 2020 Project List (continued)***

**Upper Duck Creek – Duck Creek Jones Boulevard (PV = 91.0)**

**DCJB 0000, 0043** – This project consists of 12' x 6' and 9' x 6' reinforced concrete box storm drain in Jones Boulevard from Pyle Avenue to Irvin Avenue and will be constructed as part of Regional Transportation Commission of Southern Nevada Jones – Cactus to Blue Diamond project. Design is underway. Construction funding is programmed in FY 19/20. FY 2020 eligible funding is approximately \$2.2 million for this project.

**Upper Duck Creek – Silverado Ranch Detention Basin and Outfall Facilities (PV = 91.0)**

**BD02 0125, 0151, 0177, 0265, 0277, 0312, 0359, 0385** – This project consists of a 294 acre-foot detention basin, 6' x 6' to 10' x 7' reinforced concrete box collection facilities, and a 72" diameter reinforced concrete pipe outlet southeast of the Silverado Ranch Boulevard/Decatur Boulevard intersection. Basin outflow will discharge to a proposed 7' x 4' reinforced concrete box storm drain in Silverado Ranch Boulevard extending east to the I-15, then north within open channel improvements along the I-15 to existing facility BD02 0098 at Meranto Avenue. Design is underway. Construction funding is programmed in FY 19/20. FY 2020 eligible funding is approximately \$22.3 million for this project.

**Upper Duck Creek – Blue Diamond Channel 02, Decatur – Le Baron Avenue to Richmar Avenue (PV = 91.0)**

**BD02 0334** – This project consists of 8' x 6' reinforced concrete box storm drain in Decatur Boulevard from Richmar Avenue to the Silverado Ranch Detention Basin inlet facility (BD01 0312) and will be constructed as part of the Regional Transportation Commission of Southern Nevada Decatur, Cactus to Warm Springs project. Construction funding is programmed in FY 19/20. FY 2020 eligible funding is approximately \$3.5 million for this project.

**Lower Duck Creek – Duck Creek, Sunset Park (PV = 79.5)**

**DCSP 0000, 0115** – This project consists of a 12' x 8' reinforced concrete box storm drain in Sunset Road from Duck Creek Wash to Tomiyasu Lane and a 12' x 5' reinforced concrete box storm drain extending southwesterly along Sunset Park from Sunset Road to Eastern Avenue. Design is programmed in FY 19/20 and construction funding is programmed in FY 22/23. FY 2020 eligible funding is approximately \$2.2 million for this project.

**Central Duck Creek – Duck Creek Haven Street (PV = 91.0)**

**DCHV 0026, 0050, 0057** – This Regional Transportation Commission of Southern Nevada project consists of reinforced concrete box storm drain ranging in size from 8' x 4' to 10' x 4' in Haven Street from Pyle Avenue to Cactus Avenue. Construction funding is programmed in FY 19/20. FY 2020 eligible funding is approximately \$3.5 million for this project.

***FY 2020 Project List (continued)***

**Central Duck Creek – Duck Creek Wash, Torrey Pines Drive to Rainbow Boulevard (PV = 91.0)**

**DCWA 1827** – This Developer Participation project consists of open channel improvements in Duck Creek Wash extending from an existing bridge at the Union Pacific Railroad to existing facility DCWA 1869 near the intersection of Starr Avenue/Rainbow Boulevard. Construction funding is programmed in FY 19/20. FY 2020 eligible funding is approximately \$0.60 million for this project.

**Clark County (Outlying Areas):**

The projects proposed on the TYCP for the Outlying Areas of Clark County include the following:

**Goodsprings – Goodsprings – Phase I**

**GSEA 0000, GSPA 0027, 0029, GSRV 0019** – This project consists of a riprap channel improvement along Pacific Street, Revere Street, then within a natural watercourse north of Main Street that discharges east of Fayle Street. Design is underway. Additional Design, Right-of-Way Acquisition and construction funding are programmed in FY 19/20. FY 2020 eligible funding is approximately \$1.0 million for this project.

**Muddy River and Tributaries – Fairgrounds – Detention Basin (Whipple Street)**

**FGWS 0000, 0075, 0105, 0128, 0164, 0165, 0166** – This project consists of a 139 acre-foot detention basin, spillway, and 36” diameter reinforced concrete pipe outfall facility located approximately 0.5 miles north of the Whipple Avenue/Heyer Street intersection. Basin outflow will discharge to proposed 48” and 54” diameter reinforced concrete pipes and a 7’ x 5’ reinforced concrete box storm drain in Whipple Street and ultimately to the Muddy River. Design is underway. Construction funding is programmed in FY 19/20. FY 2020 eligible funding is approximately \$11.2 million for this project.

**Laughlin – Hiko Detention Basin Expansion**

**LUHS 0244** – This project consists of expansion to the Hiko Springs Detention Basin by 310 acre-feet to accommodate diversion of the Bridge Canyon flow. Design is programmed in FY 19/20 and construction funding is programmed in FY 22/23. FY 2020 eligible funding is approximately \$0.20 million for this project.

**Searchlight – West – State Highway 164**

**SRWE 0001, 0005, 0023** – This project consists of 5: 8’ x 7’ reinforced concrete box culverts under State Highway 164 and approximately 0.5 mile of riprap lined channel extending east to existing culverts under US-95. Design is programmed in FY 19/20 and construction funding is programmed in FY 20/21. FY 2020 eligible funding is approximately \$0.80 million for this project.

***FY 2020 Project List (continued)***

**Bunkerville – Jesse Waite Wash Diversion Dike**

**JEWA 0166** – This project consists of upgrading the existing Jess Waite Wash Diversion Dike from 6' to 8' high, which is located north of the Jess Waite sediment basin. Design is underway and construction funding is programmed in FY 19/20. FY 2020 eligible funding is approximately \$1.6 million for this project.

**Clark County (Las Vegas Valley) Programmed First Year:           \$63,079,459**

**Clark County (Las Vegas Valley) Eligible First Year:               \$97,896,396**

**Clark County (Outlying Areas) Programmed First Year:           \$14,024,465**

**Clark County (Outlying Areas) Eligible First Year:               \$14,760,969**

**Total Programmed First Year:       \$ 77,103,924**

**Total Eligible First Year:           \$112,657,365**

**Boulder City:**

**Hemenway – Hemenway System, Phase IIB Improvements**

**HMWA 0005, 0105, 0200, 0201, 0202, HMLV 0004, 0006** – This project consists of improvements to the existing Hemenway Channel on the north side of US-93, a 0.43 ac-ft sediment basin and associated collection and outlet facilities near Katzenbach and US-93, and concrete channel improvements within an existing wash, north of Fire Agate Drive, extending south approximately 700' from US-93. Design is underway. Construction funding is programmed in FY 21/22. FY 2020 eligible funding is approximately \$4.4 million for this project.

**North Railroad – Wells Drive Levee Lining**

**NRIN 0088** – This project consists of providing riprap lining to the existing unlined Wells Drive Levee. Design is programmed in FY 19/20 and construction funding is programmed in FY 22/23. FY 2020 eligible funding is approximately \$29,022 for this project.

**Total Programmed First Year:       \$ 29,022**

**Total Eligible First Year:           \$4,380,947**

***FY 2020 Project List (continued)***

**Mesquite:**

**Town Wash – Town Wash – Mesa Boulevard, El Dorado Road to Town Wash**

**TWMB 0000, 0022, 0024, 0044, TOWA 0120** – This project consists of concrete channel improvements within the I-15 Freeway corridor extending approximately 2,400 linear feet northeast from Town Wash and 12' x 7' reinforced concrete box culvert extending north to the intersection of Mesa Boulevard and El Dorado Road. Design is underway. Construction funding is programmed in FY 19/20. The TYCP includes approximately \$5.0 million for this project.

**Total Programmed First Year:      \$4,992,880**

**Total Eligible First Year:          \$4,992,880**

## **EXHIBIT A**



# EXHIBIT A

PROGRAMMING PERCENTAGES			2013 MPU
Planning Area	Current MPU Total Costs (a)	Percent of Total Planning Area	Previous Percentages
<b>Henderson :</b>			
C-1	\$20,504,200	0.88%	8.35%
Pittman	\$144,761,050	6.24%	
<b>Sub-total</b>	<b>\$165,265,250</b>	<b>7.12%</b>	
<b>Las Vegas</b>			
Central	\$507,779,660	21.88%	38.70%
Gowan	\$127,415,880	5.49%	
Upper Northern L V Wash	\$203,558,550	8.77%	
<b>Sub-total</b>	<b>\$838,754,090</b>	<b>36.14%</b>	
<b>North Las Vegas</b>			
Lower Northern L V Wash	\$182,748,946	7.87%	19.22%
Range	\$262,708,330	11.32%	
Lower L V Wash	\$40,638,540	1.75%	
Apex	\$76,028,740	3.28%	
<b>Sub-total</b>	<b>\$562,124,556</b>	<b>24.22%</b>	
<b>Clark County</b>			
Duck Cr/Blue Diamond	\$301,091,860	12.97%	29.62%
Tropicana/Flamingo	\$164,588,950	7.09%	
Outlying Areas	\$189,484,280	8.16%	
<b>Sub-total</b>	<b>\$655,165,090</b>	<b>28.23%</b>	
<b>Boulder City :</b>			
Boulder City	\$37,286,080	1.61%	1.95%
<b>Sub-total</b>	<b>\$37,286,080</b>	<b>1.61%</b>	
<b>Mesquite :</b>			
Mesquite	\$62,221,053	2.68%	2.16%
<b>Sub-total</b>	<b>\$62,221,053</b>	<b>2.68%</b>	
<b>GRAND-TOTAL</b>	<b>\$2,320,816,120</b>	<b>100.00%</b>	<b>100.00%</b>

Notes:

( a ) Cost of remaining Category A facilities from applicable Master Plans as of 3/19/19

## **EXHIBIT B**

# EXHIBIT B

## Project Prioritization

Priority Factor and Weight												Priority Value	
Pop.	Land	Public	Access	Avoid.	Funding	Relation.	Implem.	Env.	O&M				
5.0	4.5	4.0	3.5	3.0	2.5	2.0	1.5	1.0	0.5				
CITY OF HENDERSON													
HYDROGRAPHIC BASIN: PITTMAN													
PROJECT: Galleria to Sunset													
PTSU 0000, 0008, 0023, 0028, 0032	4 20.0	4 18.0	3 12.0	4 14.0	3 9.0	3 7.5	3 6.0	3 4.5	3 3.0	2 1.0	95.0		
PROJECT:Boulder Highway Crossing at Water Street													
PTPA 0285, 0286	4 20.0	3 13.5	4 16.0	3 10.5	3 9.0	4 10.0	3 6.0	3 4.5	3 3.0	3 1.5	94.0		
PROJECT: Whitney Ranch Channel Replacement Project													
WWDC 0001, 0016, 0031, 0034, 0053, 0056	4 20.0	3 13.5	4 16.0	2 7.0	3 9.0	4 10.0	3 6.0	3 4.5	4 4.0	3 1.5	91.5		
PROJECT: Whitney Ranch Channel Replacement Project, Phase II													
WWDC 0070	4 20.0	3 13.5	4 16.0	2 7.0	3 9.0	4 10.0	3 6.0	3 4.5	4 4.0	3 1.5	91.5		
PROJECT: Pittman Sunset, Burns to Foster													
PTBH 0000, 0014, 0015, PTSU 0034, 0037, 0067, 0069	4 20.0	3 13.5	4 16.0	2 7.0	3 9.0	4 10.0	3 6.0	3 4.5	3 3.0	3 1.5	90.5		
PROJECT: Southwest Pittman Detention Basin													
PTSD 0233, 0234	3 15.0	4 18.0	3 12.0	3 10.5	3 9.0	2 5.0	4 8.0	3 4.5	2 2.0	2 1.0	85.0		
PROJECT: Southeast Pittman Detention Basin													
PTBE 0062, 0063, 0064, PTSO 0000	3 15.0	4 18.0	3 12.0	3 10.5	3 9.0	2 5.0	4 8.0	2 3.0	3 3.0	2 1.0	84.5		
PROJECT: Pittman Gilespie													
PTGL 0001, 0011	3 15.0	3 13.5	3 12.0	3 10.5	3 9.0	2 5.0	3 6.0	2 3.0	3 3.0	3 1.5	78.5		
PROJECT: Pittman Wash South Phase 1 - Pittman North Detention Basin to Larson Lane													
PTSD 0016, 0017, 0043	3 15.0	3 13.5	3 12.0	3 10.5	2 6.0	3 7.5	3 6.0	2 3.0	2 2.0	3 1.5	77.0		
PROJECT: Pittman Wash South Phase 2 - Larson Lane to Roban Street													
PTSD 0044, 0070, 0071	3 15.0	3 13.5	2 8.0	3 10.5	2 6.0	3 7.5	3 6.0	2 3.0	2 2.0	3 1.5	73.0		
HYDROGRAPHIC BASIN: C-1													
PROJECT: Cadiz Storm Drain - Racetrack to Pueblo													
C1CA 0000	4 20.0	3 13.5	3 12.0	3 10.5	3 9.0	3 7.5	3 6.0	3 4.5	3 3.0	2 1.0	87.0		

# EXHIBIT B

## Project Prioritization

Priority Factor and Weight										Priority Value
Pop.	Land	Public	Access	Avoid.	Funding	Relation.	Implem.	Env.	O&M	
5.0	4.5	4.0	3.5	3.0	2.5	2.0	1.5	1.0	0.5	

### CITY OF LAS VEGAS

#### HYDROGRAPHIC BASIN: CENTRAL

<b>PROJECT: Flamingo - Boulder Hwy North, Charleston - Boulder Hwy to Maryland Parkway and Maryland Pkwy System</b>											
FLBN 0170, 0180, 0205, 0275, 0280 & FLMP 0000, 0013, 0042, 0068	4	4	3	3	3	3	2	3	3	3	90.0
	20.0	18.0	12.0	10.5	9.0	7.5	4.0	4.5	3.0	1.5	
<b>PROJECT: Lake Mead - Carey - Lake Mead Detention Basin Outfall</b>											
LVLN 0221	4	4	3	3	3	3	2	3	3	2	89.5
	20.0	18.0	12.0	10.5	9.0	7.5	4.0	4.5	3.0	1.0	
<b>PROJECT: Flamingo - Boulder Hwy. North, Charleston - Main to Maryland</b>											
FLBN 0281, 0312	4	4	3	3	3	3	2	3	1	2	87.5
	20.0	18.0	12.0	10.5	9.0	7.5	4.0	4.5	1.0	1.0	
<b>PROJECT: Las Vegas Wash - Stewart to Bonanza</b>											
LVMD 1121 & 1149	4	4	3	3	3	3	2	2	1	2	86.0
	20.0	18.0	12.0	10.5	9.0	7.5	4.0	3.0	1.0	1.0	
<b>PROJECT: Owens Avenue System - Vegas, Shadow Mountain to Jones</b>											
LVOW 0360	4	4	3	3	3	2	2	3	1	3	85.5
	20.0	18.0	12.0	10.5	9.0	5.0	4.0	4.5	1.0	1.5	
<b>PROJECT: Las Vegas Wash - Stewart, Las Vegas Wash to Lamb</b>											
LVST 0000	4	3	3	3	3	2	3	3	2	3	84.0
	20.0	13.5	12.0	10.5	9.0	5.0	6.0	4.5	2.0	1.5	
<b>PROJECT: Meadows - Charleston, Essex to Lindell</b>											
MECN 0000, 0061	4	3	3	3	3	2	2	3	2	2	81.5
	20.0	13.5	12.0	10.5	9.0	5.0	4.0	4.5	2.0	1.0	
<b>PROJECT: Freeway Channel - Washington, Rancho to Valley View</b>											
LV15 0528	4	3	3	2	3	3	2	3	2	1	80.0
	20.0	13.5	12.0	7.0	9.0	7.5	4.0	4.5	2.0	0.5	
<b>PROJECT: Meadows - Charleston, Lindell to Rainbow</b>											
MECN 0123, 0223	3	3	3	3	3	3	2	3	2	2	79.0
	15.0	13.5	12.0	10.5	9.0	7.5	4.0	4.5	2.0	1.0	
<b>PROJECT: Owens Avenue East - LV Wash to Eastern</b>											
LVOE 0000, 0085	4	3	3	3	3	2	1	2	2	2	78.0
	20.0	13.5	12.0	10.5	9.0	5.0	2.0	3.0	2.0	1.0	
<b>PROJECT: Freeway Channel - Washington, Valley View to Michael Way</b>											
LV15 0602	4	3	3	2	2	2	2	3	3	2	76.0
	20.0	13.5	12.0	7.0	6.0	5.0	4.0	4.5	3.0	1.0	
<b>PROJECT: Boulder Highway Sahara Avenue - Eastern to Boulder Hwy.</b>											
BHSA 0000, 0026	3	3	4	3	2	2	2	2	1	2	75.0
	15.0	13.5	16.0	10.5	6.0	5.0	4.0	3.0	1.0	1.0	
<b>PROJECT: Sahara Avenue - Eastern Lateral</b>											
SAEA 0000	3	3	3	2	3	2	2	3	1	3	72.5
	15.0	13.5	12.0	7.0	9.0	5.0	4.0	4.5	1.0	1.5	
<b>PROJECT: Boulder Highway Sahara Avenue - Maryland to Eastern</b>											
BHSA 0075	3	3	3	3	3	2	2	3	1	1	75.0
	15.0	13.5	12.0	10.5	9.0	5.0	4.0	4.5	1.0	0.5	
<b>PROJECT: Las Vegas Wash - Cedar Channel/Bonanza - Las Vegas Wash to Lamb</b>											
LVBZ 0000, CACH 0001, 0020	3	3	3	3	3	2	2	3	1	1	75.0
	15.0	13.5	12.0	10.5	9.0	5.0	4.0	4.5	1.0	0.5	

#### HYDROGRAPHIC BASIN: GOWAN

<b>PROJECT: Gowan Outfall - Alexander Rd., Decatur Blvd. to Simmons Street</b>											
GOOF 0275, 0285, 0325, 0375	4	4	3	3	3	3	3	2	3	2	90.0
	20.0	18.0	12.0	10.5	9.0	7.5	6.0	3.0	3.0	1.0	
<b>PROJECT: Gowan Outfall - El Capitan Branch, Ann Road to Centennial</b>											
GOEC 0100, 0126, 0152, 0176	4	3	3	3	3	3	3	3	3	2	87.0
	20.0	13.5	12.0	10.5	9.0	7.5	6.0	4.5	3.0	1.0	
<b>PROJECT: Gowan - Alexander Rd., Rancho to Decatur</b>											
GOAL 0000, 0056	4	4	3	3	2	3	3	4	1	1	87.5
	20.0	18.0	12.0	10.5	6.0	7.5	6.0	6.0	1.0	0.5	
<b>PROJECT: Gowan - Rancho, Craig to Alexander and Alexander Branch</b>											
GOAL 0100, 0111, GOA2 0000	4	4	3	3	3	3	3	3	2	2	89.5
	19.0	18.0	12.0	10.5	9.0	7.5	6.0	4.5	2.0	1.0	
<b>PROJECT: Gowan - Craig and US-95</b>											
GOAL 0168, 0247	4	3	3	3	3	3	3	3	1	2	85.0
	20.0	13.5	12.0	10.5	9.0	7.5	6.0	4.5	1.0	1.0	
<b>PROJECT: Gowan Box Canyon - Lone Mountain Road</b>											
GOBX 0015	3	3	2	3	2	3	3	4	3	2	76.5
	15.0	13.5	8.0	10.5	6.0	7.5	6.0	6.0	3.0	1.0	
<b>PROJECT: Gowan Outfall - Clayton Branch</b>											
GOCL 0000	3	2	2	3	2	3	3	4	3	2	72.0
	15.0	9.0	8.0	10.5	6.0	7.5	6.0	6.0	3.0	1.0	

#### HYDROGRAPHIC BASIN: UPPER NORTHERN LAS VEGAS WASH

<b>PROJECT: Brent Drainage System - Durango to El Capitan</b>											
BRDB 0107, 0157	3	3	3	3	3	3	3	3	1	3	80.5
	15.0	13.5	12.0	10.5	9.0	7.5	6.0	4.5	1.0	1.5	

# EXHIBIT B

## Project Prioritization

Priority Factor and Weight												Priority Value
Pop.	Land	Public	Access	Avoid.	Funding	Relation.	Implem.	Env.	O&M			
5.0	4.5	4.0	3.5	3.0	2.5	2.0	1.5	1.0	0.5			
CITY OF NORTH LAS VEGAS												
HYDROGRAPHIC BASIN: LOWER NORTHERN LAS VEGAS WASH												
PROJECT: Las Vegas Wash Cartier Channel												
LVCC 0000, 0030, 0035	4 20.0	4 18.0	3 12.0	3 10.5	2 6.0	2 5.0	2 4.0	2 3.0	2 2.0	2 1.0	81.5	
PROJECT: North Las Vegas Detention Basin Upgrade												
LVUP 0406	4 20.0	3 13.5	3 12.0	3 10.5	2 6.0	2 5.0	2 4.0	2 3.0	2 2.0	2 1.0	77.0	
PROJECT: Lake Mead Drain to Las Vegas Wash												
LVLE 0000, 0047	3 15.0	3 13.5	3 12.0	3 10.5	3 9.0	2 5.0	2 4.0	2 3.0	2 2.0	2 1.0	75.0	
PROJECT: Las Vegas Boulevard Drain												
LVLV 0000	3 15.0	3 13.5	3 12.0	3 10.5	2 6.0	2 5.0	2 4.0	2 3.0	2 2.0	3 1.5	72.5	
HYDROGRAPHIC BASIN: RANGE												
PROJECT: Vandenberg North Detention Basin, Collection & Outfall - Phase 2												
RWWE 0352, 0397, 0406, 0407, 0409, 0422, 0428, 0439, 0454	3 15.0	4 18.0	3 12.0	3 10.5	3 9.0	3 7.5	3 6.0	4 6.0	3 3.0	2 1.0	88.0	
PROJECT: Hollywood System, Centennial Pkwy to Speedway #2 Detention Basin												
RWHW 0300, 0355, 0369, 0410	3 15.0	3 13.5	4 16.0	4 14.0	3 9.0	2 5.0	3 6.0	3 4.5	3 3.0	2 1.0	87.0	
PROJECT: Range Wash - Ann Branch, Phase 2												
RWAN 0001, 0050	4 20.0	3 13.5	3 12.0	2 7.0	3 9.0	3 7.5	3 6.0	3 4.5	3 3.0	3 1.5	84.0	
PROJECT: Jim McGaughey (Formerly Owens) Detention Basin & Outfall												
SLWA 0130 thru 0175 & SLOW 0000, 0005	4 20.0	3 13.5	3 12.0	3 10.5	4 12.0	2 5.0	2 4.0	2 3.0	2 2.0	2 1.0	83.0	
PROJECT: Orchard Collector - Charleston to Linden												
SLOR 0158	3 15.0	3 13.5	3 12.0	3 10.5	4 12.0	3 7.5	2 4.0	3 4.5	2 2.0	2 1.0	82.0	
PROJECT: Range Wash - Sloan Channel, Stewart Bridge												
RWSL 0187	3 15.0	3 13.5	3 12.0	3 10.5	3 9.0	3 7.5	3 6.0	2 3.0	2 2.0	2 1.0	79.5	
PROJECT: Beltway Collection System - Pecos												
RWWE 0500 & RWBW 0011, 0013	3 15.0	3 13.5	3 12.0	3 10.5	3 9.0	3 7.5	2 4.0	3 4.5	2 2.0	2 1.0	79.0	
PROJECT: Range Wash - Beltway Conveyance												
RWBW 0035-0083, RWWE 0518 - 0550	3 15.0	3 13.5	3 12.0	3 10.5	3 9.0	3 7.5	2 4.0	2 3.0	2 2.0	2 1.0	77.5	
PROJECT: Nellis Storm Drain - Sloan Channel to Craig												
SLNL 0000, 0064	3 15.0	3 13.5	3 12.0	2 7.0	2 6.0	2 5.0	2 4.0	2 3.0	2 2.0	2 1.0	68.5	
PROJECT: Las Vegas Boulevard Storm Drain - Nellis to Range												
SLLV 0000	3 15.0	3 13.5	3 12.0	2 7.0	2 6.0	2 5.0	2 4.0	2 3.0	2 2.0	1 0.5	68.0	
PROJECT: Speedway North Detention Basin and Outfall												
RWHW 0459, 0498, 0499, 0500	2 10.0	3 13.5	2 8.0	2 7.0	2 6.0	2 5.0	2 4.0	2 3.0	2 2.0	1 0.5	59.0	
HYDROGRAPHIC BASIN: Apex												
PROJECT: North Apex - System 1 Detention Basin and Outfall												
NAP1 0000, 0002, 0009, 0152, 0153, 0154	3 15.0	3 13.5	3 12.0	3 10.5	2 6.0	2 5.0	2 4.0	2 3.0	2 2.0	2 1.0	72.0	

# EXHIBIT B

## Project Prioritization

Priority Factor and Weight												Priority Value
Pop.	Land	Public	Access	Avoid.	Funding	Relation.	Implem.	Env.	O&M			
5.0	4.5	4.0	3.5	3.0	2.5	2.0	1.5	1.0	0.5			

CLARK COUNTY												
HYDROGRAPHIC BASIN: Tropicana/ Flamingo												
PROJECT: Airport Channel - Naples Channel and Peaking Basin												
TRMC 0013, 0014, 0031, 0033	4	3	3	3	4	3	3	2	2	1	87.0	
	20.0	13.5	12.0	10.5	12.0	7.5	6.0	3.0	2.0	0.5		
PROJECT: Flamingo Wash - Industrial Rd. to Hotel Rio Dr.												
FLWA 0893 & 0896	3	3	3	3	3	3	4	3	2	3	83.5	
	15.0	13.5	12.0	10.5	9.0	7.5	8.0	4.5	2.0	1.5		
PROJECT: Wagon Trail Channel - Sunset to Teco												
WGTR 0111	3	3	3	3	3	3	3	3	2	3	81.5	
	15.0	13.5	12.0	10.5	9.0	7.5	6.0	4.5	2.0	1.5		
PROJECT: Flamingo Wash - Maryland to Palos Verde												
FLWA 0621 & 0673	3	3	3	3	3	4	3	2	2	1	81.5	
	15.0	13.5	12.0	10.5	9.0	10.0	6.0	3.0	2.0	0.5		
PROJECT: Tropicana Avenue Conveyance - Las Vegas Wash to Boulder Hwy.												
LV01 0001, 0038, 0080, 0118	3	3	3	3	3	4	3	2	2	1	81.5	
	15.0	13.5	12.0	10.5	9.0	10.0	6.0	3.0	2.0	0.5		
PROJECT: Tropicana Avenue Conveyance - Boulder Hwy. to Morris												
LV01 0135	3	3	3	3	2	3	3	2	1	2	75.5	
	15.0	13.5	12.0	10.5	6.0	7.5	6.0	3.0	1.0	1.0		
PROJECT: Flamingo - Cimarron Branch												
FLCM 0003	3	3	2	3	3	2	3	2	3	2	74.0	
	15.0	13.5	8.0	10.5	9.0	5.0	6.0	3.0	3.0	1.0		
PROJECT: Tropicana Avenue Conveyance, Morris to Mountain Vista												
LV01 0151, 0176	3	3	2	3	3	2	3	2	3	2	74.0	
	15.0	13.5	8.0	10.5	9.0	5.0	6.0	3.0	3.0	1.0		
PROJECT: Flamingo Wash Maryland - UNLV												
FLMR 0000	3	3	2	3	3	2	3	2	2	1	72.5	
	15.0	13.5	8.0	10.5	9.0	5.0	6.0	3.0	2.0	0.5		
PROJECT: Vegas Valley Drive - Flamingo Wash to Burnham												
VAVD 0000 & 0025	3	3	3	2	3	3	2	1	2	1	72.0	
	15.0	13.5	12.0	7.0	9.0	7.5	4.0	1.5	2.0	0.5		
PROJECT: Blue Diamond - Buffalo Branch												
BDBF 0010, 0076, 0125	3	3	3	3	3	2	1	2	1	1	71.5	
	15.0	13.5	12.0	10.5	9.0	5.0	2.0	3.0	1.0	0.5		
PROJECT: Las Vegas Wash - Christy												
LVCH 0037, 0114	3	3	2	3	3	2	2	2	2	1	70.5	
	15.0	13.5	8.0	10.5	9.0	5.0	4.0	3.0	2.0	0.5		
PROJECT: Las Vegas Wash - Branch 02 - Monson Chnl - Las Vegas Wash to Boulder Hwy.												
LV02 0001 thru 0294	3	3	2	3	2	2	3	2	2	1	69.5	
	15.0	13.5	8.0	10.5	6.0	5.0	6.0	3.0	2.0	0.5		

HYDROGRAPHIC BASIN: Duck Creek/Blue Diamond												
PROJECT: Blue Diamond Channel 02, Decatur - Le Baron to Richmar												
BD02 0334	4	3	3	3	3	4	3	4	3	2	91.0	
	20.0	13.5	12.0	10.5	9.0	10.0	6.0	6.0	3.0	1.0		
PROJECT: Duck Creek Wash, Torrey Pines to Rainbow												
DCWA 1827	3	3	4	3	4	3	4	3	3	2	91.0	
	15.0	13.5	16.0	10.5	12.0	7.5	8.0	4.5	3.0	1.0		
PROJECT: Duck Creek Jones Boulevard												
DCJB 0000, 0043	3	3	4	3	4	3	4	3	3	2	91.0	
	15.0	13.5	16.0	10.5	12.0	7.5	8.0	4.5	3.0	1.0		
PROJECT: Duck Creek Haven Street												
DCHV 0026, 0050, 0057	3	3	4	3	4	3	4	3	3	2	91.0	
	15.0	13.5	16.0	10.5	12.0	7.5	8.0	4.5	3.0	1.0		
PROJECT: Silverado Ranch Detention Basin and Outfall Facilities												
BD02 0125 thru 0312, 0359 and 0385	4	4	3	3	3	3	3	3	2	3	91.0	
	20.0	18.0	12.0	10.5	9.0	7.5	6.0	4.5	2.0	1.5		
PROJECT: Blue Diamond Wash - Arville to I-15												
BDWA 0276	3	3	3	3	3	3	3	3	3	4	83.0	
	15.0	13.5	12.0	10.5	9.0	7.5	6.0	4.5	3.0	2.0		
PROJECT: Duck Cr. / Blue Diamond, Bermuda to Las Vegas Blvd.												
DCBD 0075, 0082 & 0084	3	3	3	3	3	3	3	3	2	1	80.5	
	15.0	13.5	12.0	10.5	9.0	7.5	6.0	4.5	2.0	0.5		
PROJECT: Duck Creek, Sunset Park												
DCSP 0000, 0115	4	3	3	3	2	2	2	3	3	2	79.5	
	20.0	13.5	12.0	10.5	6.0	5.0	4.0	4.5	3.0	1.0		
PROJECT: Blue Diamond Channel, Amigo to Haven												
BDWA 0087 thru 0175	3	3	3	2	3	3	3	3	3	2	78.5	
	15.0	13.5	12.0	7.0	9.0	7.5	6.0	4.5	3.0	1.0		
PROJECT: Blue Diamond Wash Railroad												
BDW5 0026	1	4	4	3	4	1	3	3	2	1	77.0	
	5.0	18.0	16.0	10.5	12.0	2.5	6.0	4.5	2.0	0.5		

## **EXHIBIT C**

EXHIBIT C

CITY OF HENDERSON  
10-YEAR CONSTRUCTION PROGRAM  
ADOPTED

ADOPTED					FIRST FIVE YEARS 7/2019 THRU 6/2024					SECOND FIVE YEARS 7/2024 THRU 6/2029						
			Existing Value/ Comments	Project Cost Per MPU	Total Plan	(Year 1) FY 19/20	(Year 2) FY 20/21	(Year 3) FY 21/22	(Year 4) FY 22/23	(Year 5) FY 23/24	(Year 6) FY 24/25	(Year 7) FY 25/26	(Year 8) FY 26/27	(Year 9) FY 27/28	(Year 10) FY 28/29	
TOTAL PLAN					Annual Resources	\$899,655,079	\$253,190,812	\$42,076,140	\$45,535,206	\$49,126,044	\$145,862,830	\$49,863,510	\$54,012,827	\$58,298,684	\$155,644,160	\$60,242,096
Unencumbered from previous year			(\$14,197,230)	Cumulative Available Resources	\$883,732,442	\$70,196,925	\$29,719,498	\$27,167,327	\$13,445,505	\$74,393,172	\$62,716,118	\$53,099,505	\$48,869,754	\$25,329,041	\$15,922,637	
ENTITY RESOURCES					Annual Resources	\$54,087,400	\$7,041,713	\$2,996,241	\$3,242,561	\$3,498,264	\$10,386,888	\$3,550,779	\$3,846,252	\$4,151,448	\$11,083,416	\$4,289,838
Unencumbered from previous year			(\$10,987,997)	Cumulative Available Resources		\$4,846,055	\$772,699	\$2,267,979	\$4,897,027	\$3,688,804	\$5,527,954	\$473,441	\$3,555,496	\$895,268	\$1,718,879	
ENTITY TOTAL			\$827,312,090	\$165,265,250	\$52,368,520	\$2,195,658	\$7,069,597	\$1,747,281	\$869,216	\$11,595,111	\$1,711,629	\$8,900,764	\$1,069,393	\$13,743,645	\$3,466,227	
HYDROGRAPHIC BASIN: PITTMAN			\$627,639,150	\$144,761,050	\$48,549,838	\$2,195,658	\$7,069,597	\$1,747,281	\$869,216	\$11,595,111	\$1,711,629	\$8,548,309	\$1,069,393	\$13,743,645	\$0	
SYSTEM: Pittman Burns			\$98,833,140	\$16,777,510	\$8,027,300	\$1,463,860	\$605,788	\$0	\$0	\$5,957,651	\$0	\$0	\$0	\$0	\$0	
PROJECT: Pittman Sunset, Burns to Foster																
Design/Admin			PTBH 0000, 0014, 0015	\$980,240	\$6,563,440		\$605,788			\$441,308						
Right-of-way			PTSU 0034, 0037, 0067, 0069	\$784,190												
Construction				\$4,901,200						\$5,516,344						
PROJECT: Galleria to Sunset																
Design/Admin			PTSU 0000, 0008, 0023, 0028, 0032	\$597,510	\$1,463,860											
Right-of-way				\$478,000												
Construction			Developer Participation	\$2,987,470		\$1,463,860										
SYSTEM: Lower Pittman			\$196,101,500	\$38,939,280	\$8,211,089	\$0	\$6,463,808	\$1,747,281	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
PROJECT: Whitney Ranch Channel Replacement Project																
Design/Admin			WWDC 0001, 0016, 0031, 0034, 0053, 0056	Design Started 18/19	\$1,162,130	\$6,463,808	\$478,798									
Right-of-way				HENO7F18	\$929,710											
Construction					\$5,810,690		\$5,985,011									
PROJECT: Whitney Ranch Channel Replacement Project, Phase II																
Design/Admin			WWDC 0070	Design Started 18/19	\$305,000	\$1,747,281		\$129,430								
Right-of-way				HENO7F18	\$244,000											
Construction					\$1,524,980		\$1,617,851									
SYSTEM: Pittman Pabco			\$581,310	\$5,492,940	\$731,798	\$731,798	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
PROJECT: Boulder Highway Crossing at Water Street																
Design/Admin			PTPA 0285, 0286		\$135,520	\$731,798	\$54,208									
Right-of-way					\$108,410											
Construction				Developer Design	\$677,590											
SYSTEM: Upper Pittman			\$39,658,020	\$51,885,240	\$31,579,651	\$0	\$0	\$0	\$869,216	\$5,637,460	\$1,711,629	\$8,548,309	\$1,069,393	\$13,743,645	\$0	
PROJECT: Southeast Pittman Detention Basin																
Design/Admin			PTBE 0062, 0063, 0064 PTSO 0000		\$1,325,760	\$9,417,525		\$869,216				\$633,211				
Right-of-way					\$1,060,600											
Construction					\$6,628,770							\$7,915,098				
PROJECT: Pittman Gillespie																
Design/Admin			PTGL 0001, 0011		\$982,710	\$7,405,798					\$683,538			\$497,947		
Right-of-way					\$786,160											
Construction					\$4,913,530									\$6,224,313		
PROJECT: Pittman Wash South Phase 1 - Pittman North Detention Basin to Larson Lane																
Design/Admin			PTSD 0016, 0017, 0043		\$1,026,440	\$8,049,476					\$713,955			\$520,105		
Right-of-way					\$821,140						\$314,136					
Construction					\$5,132,170									\$6,501,279		
PROJECT: Pittman Wash South Phase 2- Larson Lane to Roban Street																
Design/Admin			PTSD 0044, 0070, 0071		\$1,449,190	\$1,069,393							\$1,069,393			
Right-of-way					\$1,159,350											
Construction					\$7,245,930											
PROJECT: Southwest Pittman Detention Basin																
Design/Admin			PTSD 0233, 0234		\$927,550	\$5,637,460				\$417,586						
Right-of-way					\$742,040											
Construction				Developer Design	\$4,637,790		\$5,219,874									
HYDROGRAPHIC BASIN: C-1			\$199,672,940	\$20,504,200	\$3,818,682	\$0	\$0	\$0	\$0	\$0	\$0	\$352,456	\$0	\$0	\$0	\$3,466,227
SYSTEM: C-1			\$199,672,940	\$20,504,200	\$3,818,682	\$0	\$0	\$0	\$0	\$0	\$0	\$352,456	\$0	\$0	\$0	\$3,466,227
PROJECT: Cadiz Storm Drain - Racetrack to Pueblo																
Design/Admin			C1CA 0000		\$491,960	\$3,818,682						\$352,456				\$256,758
Right-of-way					\$393,570											
Construction					\$2,459,790											



EXHIBIT C

CITY OF LAS VEGAS  
10-YEAR CONSTRUCTION PROGRAM  
ADOPTED

ADOPTED					FIRST FIVE YEARS 7/2019 THRU 6/2024					SECOND FIVE YEARS 7/2024 THRU 6/2029					
Fac. ID Mile Range		Extating Value/ Comments	Project Cost Per MPU	Total Plan	(Year 1) FY 19/20	(Year 2) FY 20/21	(Year 3) FY 21/22	(Year 4) FY 22/23	(Year 5) FY 23/24	(Year 6) FY 24/25	(Year 7) FY 25/26	(Year 8) FY 26/27	(Year 9) FY 27/28	(Year 10) FY 28/29	
TOTAL PLAN				Annual Resources	\$899,655,079	\$253,190,812	\$42,076,140	\$45,535,206	\$49,126,044	\$145,862,830	\$49,863,510	\$54,012,827	\$58,298,684	\$155,644,160	\$60,242,096
Unencumbered from previous year		(\$14,197,230)	Cumulative Available Resources		\$883,732,442	\$70,196,925	\$29,719,498	\$27,167,327	\$13,445,505	\$74,393,172	\$62,716,118	\$53,099,505	\$48,869,754	\$25,329,041	\$15,922,637
ENTITY RESOURCES				Annual Resources	\$302,319,382	\$63,553,144	\$15,206,519	\$16,456,642	\$17,754,388	\$52,715,527	\$18,020,912	\$19,520,495	\$21,069,424	\$56,250,547	\$21,771,783
Unencumbered from previous year		(\$27,951,231)	Cumulative Available Resources			\$18,620,375	\$3,384,826	\$1,759,281	\$1,158,923	\$17,620,430	\$22,795,071	\$11,611,875	\$4,619,503	\$10,994,637	\$3,438,182
ENTITY TOTAL			\$1,372,662,650	\$838,754,090	\$298,881,200	\$44,932,769	\$30,442,068	\$18,082,188	\$18,354,745	\$36,254,021	\$12,846,271	\$30,703,691	\$28,061,796	\$49,875,414	\$29,328,238
HYDROGRAPHIC BASIN: CENTRAL			\$526,443,780	\$507,779,660	\$197,705,571	\$44,035,229	\$1,523,436	\$0	\$8,497,087	\$25,861,748	\$11,416,684	\$20,566,383	\$28,061,796	\$28,414,970	\$29,328,238
SYSTEM: LV Wash I-15 Tributary			\$148,473,570	\$89,985,880	\$23,435,754	\$12,474	\$474,004	\$0	\$0	\$4,375,674	\$964,282	\$8,126,049	\$0	\$9,483,271	\$0
PROJECT: Freeway Channel - Washington, Valley View to Michael Way															
Design/Admin		LV15 0602		\$1,386,330	\$10,447,553						\$964,282				
Right-of-way				\$1,109,060								\$702,465			
Construction				\$6,931,650								\$8,780,807			
PROJECT: Freeway Channel - Washington, Rancho to Valley View															
Design/Admin		LV15 0528		\$1,260,270	\$8,977,116						\$851,067	\$601,931			
Right-of-way				\$1,008,210											
Construction				\$6,301,330								\$7,524,118			
PROJECT: Lake Mead - Carey - Lake Mead Detention Basin Outfall															
Design/Admin		LVLN 0221		\$20,790	\$128,087	\$12,474	\$8,565								
Design/Admin				\$16,630											
Construction				\$103,930		\$107,048									
PROJECT: Owens Avenue System - Vegas, Shadow Mountain to Jones															
Design/Admin		LVOW 0360		\$579,920	\$3,882,998						\$358,391	\$261,082			
Right-of-way				\$463,940											
Construction				\$2,899,600								\$3,263,525			
SYSTEM: LV Wash Central			\$388,948,500	\$221,782,930	\$89,395,748	\$0	\$1,049,432	\$0	\$893,095	\$21,488,073	\$8,527,379	\$12,131,280	\$25,308,490	\$0	\$0
PROJECT: Las Vegas Wash - Stewart to Bonanza															
Design/Admin		LVMD 1121 & 1149	Design Started 11/12	\$1,204,620	\$7,321,388						\$542,324				
Right-of-way			CLA15D12 / LAS28C12	\$963,690											
Construction				\$6,023,110							\$6,779,063				
PROJECT: Meadows - Charleston, Essex to Lindell															
Design/Admin		MECN 0000, 0061		\$1,362,180	\$9,420,473						\$893,095	\$631,656			
Right-of-way				\$1,089,750											
Construction				\$6,810,920							\$7,895,723				
PROJECT: Meadows - Charleston, Lindell to Rainbow															
Design/Admin		MECN 0123, 0223		\$1,881,440	\$13,401,826						\$1,270,546	\$898,615			
Right-of-way				\$1,505,140											
Construction				\$9,407,180							\$11,232,665				
PROJECT: Las Vegas Wash - Stewart, Las Vegas Wash to Lamb															
Design/Admin		LVST 0000		\$1,698,110	\$11,370,138						\$1,049,432	\$764,495			
Right-of-way				\$1,358,490											
Construction				\$8,490,570							\$9,556,211				
PROJECT: Owens Avenue East - LV Wash to Eastern															
Design/Admin		LVOE 0000, 0085		\$3,810,770	\$27,881,823						\$2,573,433		\$1,874,707		
Right-of-way				\$3,048,610											
Construction				\$19,053,810								\$23,433,783			
SYSTEM: Sahara Boulder Highway			\$8,020,710	\$198,030,870	\$104,874,088	\$44,022,755	\$0	\$0	\$7,603,992	\$0	\$1,925,023	\$309,054	\$2,753,306	\$18,931,699	\$28,328,238
PROJECT: Boulder Highway Sahara Avenue - Eastern to Boulder Hwy.															
Design/Admin		BHSA 0000, 0026	Pre -Design Started 09/10	\$2,767,570	\$20,856,722						\$1,925,023				
Right-of-way			LAS27A09	\$2,214,050								\$1,402,350			
Construction				\$13,837,830								\$17,529,349			
PROJECT: Sahara Avenue - Eastern Lateral															
Design/Admin		SAEA 0000		\$431,380	\$3,348,448							\$309,054			
Right-of-way				\$345,100											
Construction				\$2,156,890											
PROJECT: Boulder Highway Sahara Avenue - Maryland to Eastern															
Design/Admin		BHSA 0075		\$2,278,210	\$17,732,915								\$1,681,147	\$1,189,019	
Right-of-way				\$1,822,570											
Construction				\$11,391,060											
PROJECT: Flamingo - Boulder Hwy. North, Charleston - Main to Maryland															
Design/Admin		FLBN 0281, 0312	design start in 17/18	\$1,288,650	\$7,803,992						\$563,257				
Right-of-way			LAS29D17	\$1,030,920											
Construction				\$6,443,270							\$7,040,735				
PROJECT: Flamingo - Boulder Hwy North, Charleston - Boulder Hwy to Maryland Parkway and Maryland Pkwy System															
Design/Admin		FLBN 0170, 0180, 0205, 0275, 0280 & FLMP 0000, 0013, 0042, 0068	Design started in 16/17	\$2,882,190	\$44,022,755	\$1,152,876									
Right-of-way			LAS29C16	\$2,305,760											
Construction				\$14,410,970						\$42,869,879					
PROJECT: Las Vegas Wash - Cedar Channel/Bonanza - Las Vegas Wash to Lamb															
Design/Admin		LVBZ 0000 CACH 0001, 0020		\$1,452,940	\$11,309,235							\$1,072,180	\$758,303		
Right-of-way				\$1,162,350											
Construction				\$7,264,690									\$9,478,773		



EXHIBIT C

CITY OF LAS VEGAS  
10-YEAR CONSTRUCTION PROGRAM  
ADOPTED

ADOPTED					FIRST FIVE YEARS 7/2019 THRU 6/2024					SECOND FIVE YEARS 7/2024 THRU 6/2029						
	Fac. ID Mile Range	Existing Value/ Comments	Project Cost Per MPU	Total Plan	(Year 1) FY 19/20	(Year 2) FY 20/21	(Year 3) FY 21/22	(Year 4) FY 22/23	(Year 5) FY 23/24	(Year 6) FY 24/25	(Year 7) FY 25/26	(Year 8) FY 26/27	(Year 9) FY 27/28	(Year 10) FY 28/29		
TOTAL PLAN					Annual Resources	\$899,655,079	\$253,190,812	\$42,076,140	\$45,535,206	\$49,128,044	\$145,862,830	\$49,863,510	\$54,012,827	\$58,298,684	\$155,644,160	\$60,242,096
Unencumbered from previous year		(\$14,197,230)	Cumulative Available Resources	\$883,732,442	\$70,196,925	\$29,719,498	\$27,167,327	\$13,445,505	\$74,393,172	\$62,716,118	\$53,099,505	\$48,869,754	\$25,329,041	\$15,922,637		
ENTITY RESOURCES					Annual Resources	\$302,319,382	\$63,553,144	\$15,206,519	\$16,456,842	\$52,715,527	\$18,020,912	\$19,520,495	\$21,069,424	\$56,250,547	\$21,771,783	
Unencumbered from previous year		(\$27,951,231)	Cumulative Available Resources		\$18,620,375	\$3,384,826	\$1,759,281	\$1,158,923	\$17,620,430	\$22,795,071	\$11,611,875	\$4,619,503	\$10,994,637	\$3,438,182		
ENTITY TOTAL			\$1,372,662,650	\$838,754,090	\$298,881,200	\$44,932,769	\$30,442,068	\$18,082,188	\$18,354,745	\$36,254,021	\$12,846,271	\$30,703,691	\$28,061,796	\$49,875,414	\$29,328,238	
HYDROGRAPHIC BASIN: GOWAN			\$447,692,150	\$127,415,880	\$91,451,215	\$0	\$28,918,632	\$18,082,188	\$1,030,785	\$10,392,273	\$1,429,587	\$10,137,308	\$0	\$21,460,443	\$0	
SYSTEM: Gowan North			\$273,309,150	\$126,944,620	\$91,451,215	\$0	\$28,918,632	\$18,082,188	\$1,030,785	\$10,392,273	\$1,429,587	\$10,137,308	\$0	\$21,460,443	\$0	
PROJECT: Gowan Box Canyon - Lone Mountain Road																
	Design/Admin	GOBX 0015	Design started in 15/16	\$1,081,940	\$7,401,099									\$548,228		
	Right-of-way		LAS24I15	\$865,550												
	Construction			\$5,409,720										\$6,852,871		
PROJECT: Gowan Outfall - Alexander Rd., Decatur Blvd. to Simmons Street																
	Design/Admin	GOOF 0275, 0285 0325, 0375	Design started 16/17	\$5,009,330	\$27,861,814		\$2,063,844									
	Right-of-way		NLV04K17	\$4,007,480												
	Construction			\$25,046,670			\$25,798,070									
PROJECT: Gowan Outfall - Clayton Branch																
	Design/Admin	GOCL 0000		\$2,055,290	\$15,488,931					\$1,429,587				\$1,041,432		
	Right-of-way			\$1,644,230												
	Construction			\$10,276,460										\$13,017,912		
PROJECT: Gowan Outfall - El Capitan Branch, Ann Road to Centennial																
	Design/Admin	GOEC 0100, 0126, 0152, 0178	Design Started in 17/18	\$1,323,640	\$7,582,927			\$561,700								
	Right-of-way		LAS24L17	\$1,058,910												
	Construction			\$6,618,180			\$7,021,227									
PROJECT: Gowan - Alexander Rd., Rancho to Decatur																
	Design/Admin	GOAL 0000, 0056	Design Started in 13/14	\$1,832,700	\$10,499,261			\$777,725								
	Right-of-way		LAS30A13	\$1,466,160												
	Construction		Engr's Est.	\$9,163,480			\$9,721,536									
PROJECT: Gowan - Rancho, Craig to Alexander and Alexander Branch																
	Design/Admin	GOAL 0100, 0111 GOA2 0000		\$1,709,900	\$11,448,991		\$1,056,718		\$769,803							
	Right-of-way			\$1,367,910												
	Construction			\$8,549,440			\$9,622,470									
PROJECT: Gowan - Craig and US-95																
	Design/Admin	GOAL 0168, 0247		\$1,572,190	\$11,168,093			\$1,030,785			\$750,911					
	Right-of-way			\$1,257,750												
	Construction			\$7,860,960								\$9,386,397				
HYDROGRAPHIC BASIN: UPPER NORTHERN LV WASH			\$398,526,720	\$203,558,550	\$9,724,414	\$897,540	\$0	\$0	\$8,826,874	\$0	\$0	\$0	\$0	\$0	\$0	
SYSTEM: Upper Western Tributary			\$264,027,000	\$37,904,550	\$9,724,414	\$897,540	\$0	\$0	\$8,826,874	\$0	\$0	\$0	\$0	\$0	\$0	
PROJECT: Brent Drainage System - Durango to El Capitan																
	Design/Admin	BRDB 0107, 0157		\$1,495,900	\$9,724,414	\$897,540			\$653,844							
	Right-of-way			\$1,196,720												
	Construction			\$7,479,480					\$8,173,030							

EXHIBIT C

CITY OF NORTH LAS VEGAS  
10-YEAR CONSTRUCTION PROGRAM  
ADOPTED

					FIRST FIVE YEARS 7/2019 THRU 6/2024					SECOND FIVE YEARS 7/2024 THRU 6/2029				
Fac. ID Mile Range		Existing Value/ Comments	Project Cost Per MPU	Total Plan	(Year 1) FY 19/20	(Year 2) FY 20/21	(Year 3) FY 21/22	(Year 4) FY 22/23	(Year 5) FY 23/24	(Year 6) FY 24/25	(Year 7) FY 25/26	(Year 8) FY 26/27	(Year 9) FY 27/28	(Year 10) FY 28/29
TOTAL PLAN				Annual Resources	\$899,655,079	\$253,190,812	\$42,076,140	\$45,535,206	\$49,126,044	\$145,862,830	\$49,863,510	\$54,012,827	\$58,298,684	\$155,644,160
Unencumbered from previous year		(\$14,197,230)	Cumulative Available Resources		\$883,732,442	\$70,196,925	\$29,719,498	\$27,167,327	\$13,445,505	\$74,393,172	\$62,716,118	\$53,099,505	\$48,869,754	\$25,329,041
ENTITY RESOURCES				Annual Resources	\$207,494,839	\$47,476,108	\$10,191,256	\$11,029,076	\$11,898,812	\$35,329,416	\$12,077,434	\$13,082,439	\$14,120,516	\$37,698,551
Unencumbered from previous year		(\$13,849,204)	Cumulative Available Resources		\$207,494,839	\$7,933,705	\$6,588,866	\$3,358,673	\$4,946,930	\$23,938,523	\$29,699,961	\$31,196,532	\$33,412,047	\$8,786,439
ENTITY TOTAL					\$808,695,860	\$486,095,816	\$202,333,586	\$39,542,403	\$11,536,095	\$14,259,269	\$10,310,555	\$16,337,823	\$6,315,996	\$11,585,868
HYDROGRAPHIC BASIN: LOWER NORTHERN LV WASH			\$420,934,570	\$182,748,946	\$33,719,147	\$698,289	\$1,534,074	\$0	\$6,867,332	\$15,966,743	\$0	\$0	\$8,652,709	\$0
SYSTEM: LV Wash Craig			\$182,994,230	\$37,622,500	\$7,209,111	\$0	\$665,382	\$0	\$0	\$6,543,728	\$0	\$0	\$0	\$0
PROJECT: North Las Vegas Detention Basin Upgrade														
Design/Admin			\$1,076,670	\$7,209,111						\$484,721				
Right-of-way		LVUP 0406	\$861,340											
Construction			\$5,383,350							\$6,059,008				
SYSTEM: Cheyenne Lamb Nellis			\$79,573,170	\$132,642,546	\$26,510,036	\$698,289	\$868,692	\$0	\$6,867,332	\$9,423,014	\$0	\$0	\$8,652,709	\$0
PROJECT: Lake Mead Drain to Las Vegas Wash														
Design/Admin			\$1,405,650	\$9,411,878						\$632,829				
Right-of-way		LVLE 0000, 0047	\$1,124,520											
Construction			\$7,028,250							\$7,910,357				
PROJECT: Las Vegas Boulevard Drain														
Design/Admin			\$1,302,860	\$9,532,537						\$879,828			\$640,941	
Right-of-way		LVLV 0000	\$1,042,290											
Construction			\$6,514,300										\$8,011,767	
PROJECT: Las Vegas Wash Cartier Channel														
Design/Admin			\$1,163,815	\$7,565,621		\$698,289			\$508,693					
Right-of-way		LVCC 0000, 0030, 0035	\$931,046											
Construction		RTC Lead	\$5,819,056						\$6,358,640					



EXHIBIT C

CITY OF NORTH LAS VEGAS  
10-YEAR CONSTRUCTION PROGRAM  
ADOPTED

ADOPTED					FIRST FIVE YEARS 7/2019 THRU 6/2024					SECOND FIVE YEARS 7/2024 THRU 6/2029						
Fac. ID Mile Range		Existing Value/ Comments	Project Cost Per MPU	Total Plan	(Year 1) FY 19/20	(Year 2) FY 20/21	(Year 3) FY 21/22	(Year 4) FY 22/23	(Year 5) FY 23/24	(Year 6) FY 24/25	(Year 7) FY 25/26	(Year 8) FY 26/27	(Year 9) FY 27/28	(Year 10) FY 28/29		
TOTAL PLAN				Annual Resources	\$899,655,079	\$253,190,812	\$42,076,140	\$45,535,206	\$49,126,044	\$145,862,830	\$49,863,510	\$54,012,827	\$58,298,684	\$155,644,160	\$60,242,096	
Unencumbered from previous year		(\$14,197,230)	Cumulative Available Resources	\$883,732,442	\$70,196,925	\$29,719,498	\$27,167,327	\$13,445,505	\$74,393,172	\$62,716,118	\$53,099,505	\$48,869,754	\$25,329,041	\$15,922,637		
ENTITY RESOURCES				Annual Resources	\$207,494,839	\$47,476,108	\$10,181,266	\$11,029,076	\$11,898,812	\$35,329,416	\$12,077,434	\$13,082,439	\$14,120,516	\$37,698,551	\$14,591,230	
Unencumbered from previous year		(\$13,849,204)	Cumulative Available Resources		\$7,933,705	\$6,588,866	\$3,358,673	\$4,946,930	\$23,938,523	\$29,699,961	\$31,196,532	\$33,412,047	\$8,786,439	\$5,161,253		
ENTITY TOTAL				\$808,695,860	\$486,095,816	\$202,333,586	\$39,542,403	\$11,536,095	\$14,259,269	\$10,310,555	\$16,337,823	\$6,315,996	\$11,585,868	\$11,905,002	\$62,324,158	\$18,216,416
HYDROGRAPHIC BASIN: RANGE		\$196,209,210	\$262,708,330	\$136,009,576	\$38,844,114	\$10,002,021	\$14,259,269	\$3,443,223	\$371,080	\$3,662,328	\$7,941,513	\$3,252,293	\$36,017,319	\$18,216,416		
SYSTEM: Lower Range		\$92,621,110	\$53,363,990	\$20,765,429	\$769,320	\$0	\$14,259,269	\$3,443,223	\$0	\$0	\$2,293,617	\$0	\$0	\$0		
PROJECT: Orchard Collector - Charleston to Linden																
Design/Admin		SLOR 0158	Design Started 00/01	\$428,160	\$3,210,000				\$210,000							
Right-of-way			CLA21A00	\$342,530												
Construction			Est.	\$2,140,810					\$3,000,000							
PROJECT: Jim McGaughey (Formerly Owens) Detention Basin & Outfall																
Design/Admin		SLWA 0130 thru 0175 & SLOW 0000, 0005	Design Started 17/18	\$961,680	\$15,028,589			\$932,849								
Right-of-way			CLA36A18	\$769,320		\$769,320										
Construction				\$4,808,280				\$13,326,420								
PROJECT: Range Wash - Sloan Channel, Stewart Bridge																
Design/Admin		RWSL 0187		\$355,720	\$2,526,840				\$233,223		\$169,899					
Right-of-way				\$284,570												
Construction				\$1,778,580							\$2,123,718					
SYSTEM: West Range		\$85,613,560	\$145,159,210	\$96,467,239	\$32,552,200	\$0	\$0	\$0	\$371,080	\$3,662,328	\$5,647,896	\$0	\$36,017,319	\$18,216,416		
PROJECT: Nellis Storm Drain - Sloan Channel to Craig																
Design/Admin		SLNL 0000, 0064		\$3,256,870	\$24,544,198					\$2,265,363			\$1,650,282			
Right-of-way				\$2,605,500												
Construction				\$16,284,370										\$20,628,553		
PROJECT: Las Vegas Boulevard Storm Drain - Nellis to Range																
Design/Admin		SLLV 0000		\$2,585,440	\$20,068,706						\$1,852,290			\$1,349,365		
Right-of-way				\$2,068,350												
Construction				\$12,927,190										\$16,867,051		
PROJECT: Range Wash - Beltway Conveyance																
Design/Admin		RWBW 0035-0083, RWWE 0518 - 0550		\$2,008,390	\$15,135,449					\$1,396,965			\$1,017,667			
Right-of-way				\$1,606,720												
Construction				\$10,041,930										\$12,720,816		
PROJECT: Vandenberg North Detention Basin, Collection & Outfall - Phase 2																
Design/Admin		RWWE 0352, 0397, 0406, 0407, 0409, 0422, 0428, 0439, 0454	PreDesign Started 10/11	\$2,132,880	\$32,552,200	\$2,900,000										
Right-of-way			NLV09E11	\$1,706,290												
Construction			Eng. Est.	\$10,664,330		\$29,652,200										
PROJECT: Beltway Collection System - Pecos																
Design/Admin		RWWE 0500 & RWBW 0011, 0013		\$549,500	\$4,166,686				\$371,080		\$262,453					
Right-of-way				\$439,600												
Construction				\$2,958,960							\$3,533,153					
SYSTEM: East Range		\$17,974,540	\$64,185,130	\$18,776,908	\$5,522,594	\$10,002,021	\$0	\$0	\$0	\$0	\$0	\$3,252,293	\$0	\$0		
PROJECT: Range Wash - Ann Branch, Phase 2																
Design/Admin		RWAN 0001, 0050	Design started 16/17	\$1,638,080	\$10,002,021		\$674,889									
Right-of-way			NLV03F17	\$1,310,460												
Construction				\$8,190,420			\$9,327,132									
PROJECT: Hollywood System, Centennial Pkwy to Speedway #2 Detention Basin																
Design/Admin		RWHW 0300, 0355, 0369, 0410	Design started 16/17	\$1,022,710	\$5,522,594	\$409,084										
Right-of-way			NLV03G17	\$818,160												
Construction				\$5,113,510		\$5,113,510										
PROJECT: Speedway North Detention Basin and Outfall																
Design/Admin		RWHW 0459, 0498, 0499, 0500		\$1,888,870	\$3,252,293							\$1,393,843				
Right-of-way				\$1,511,090								\$1,858,450				
Construction				\$9,444,330												
HYDROGRAPHIC BASIN: Apex		\$0	\$0	\$32,604,863	\$0	\$0	\$0	\$0	\$0	\$2,653,669	\$3,644,355	\$0	\$26,306,839	\$0		
PROJECT: North Apex - System 1 Detention Basin and Outfall																
Design/Admin		NAP1 0000, 0002, 0009, 0152, 0153, 0154		\$3,815,130	\$32,604,863					\$2,653,669			\$1,933,157			
Right-of-way				\$3,052,090							\$3,644,355					
Construction				\$19,240,810										\$24,373,682		



EXHIBIT C

CLARK COUNTY  
10-YEAR CONSTRUCTION PROGRAM  
ADOPTED

					FIRST FIVE YEARS 7/2019 THRU 6/2024					SECOND FIVE YEARS 7/2024 THRU 6/2029				
Fac. ID Mile Range		Existing Value/ Comments	Project Cost Per MPU	Total Plan	(Year 1) FY 19/20	(Year 2) FY 20/21	(Year 3) FY 21/22	(Year 4) FY 22/23	(Year 5) FY 23/24	(Year 6) FY 24/25	(Year 7) FY 25/26	(Year 8) FY 26/27	(Year 9) FY 27/28	(Year 10) FY 28/29
TOTAL PLAN				Annual Resources	\$899,655,079	\$253,190,812	\$42,076,140	\$45,535,206	\$49,126,044	\$145,862,830	\$49,863,510	\$54,012,827	\$58,298,684	\$155,644,160
Unencumbered from previous year				Cumulative Available Resources	\$883,732,442	\$70,196,925	\$29,719,498	\$27,167,327	\$13,445,505	\$74,393,172	\$62,716,118	\$53,099,505	\$48,869,754	\$25,329,041
ENTITY RESOURCES				Annual Resources	\$293,042,389	\$106,538,019	\$11,878,071	\$12,854,563	\$13,868,255	\$41,176,995	\$14,076,441	\$15,247,791	\$16,457,686	\$43,938,259
Unencumbered from previous year				Cumulative Available Resources	\$29,434,094	\$7,876,851	\$11,926,344	\$1,865,679	\$23,442,377	\$7,486,628	\$15,202,886	\$10,168,327	\$1,289,264	\$785,784
ENTITY TOTAL					\$1,532,456,175	\$652,450,607	\$292,256,605	\$77,103,924	\$33,435,314	\$8,805,070	\$23,928,920	\$19,600,297	\$30,032,190	\$7,531,533
HYDROGRAPHIC BASIN: Tropicana/ Flamingo					\$949,729,850	\$164,588,950	\$139,176,782	\$28,820,000	\$23,656,592	\$555,591	\$347,717	\$5,108,567	\$14,013,405	\$6,258,561
SYSTEM: Tropicana Flamingo Project					\$484,489,310	\$23,344,000	\$15,855,519	\$0	\$0	\$0	\$347,717	\$0	\$4,444,940	\$0
PROJECT: Blue Diamond - Buffalo Branch														
Design/Admin														
Design/Admin														
Construction														
PROJECT: Flamingo - Cimarron Branch														
Design/Admin														
Right-of-way														
Construction														
SYSTEM: Lower Flamingo					\$332,587,410	\$99,159,190	\$74,235,482	\$28,150,000	\$4,370,922	\$0	\$0	\$1,569,335	\$2,298,136	\$6,258,561
PROJECT: Wagon Trail Channel - Sunset to Teco														
Design/Admin														
Right-of-way														
Construction														
PROJECT: Flamingo Wash, Maryland to Palos Verde														
Design/Admin														
Right-of-way														
Construction														
PROJECT: Las Vegas Wash - Christy														
Design/Admin														
Right-of-way														
Construction														
PROJECT: Flamingo Wash Maryland - UNLV														
Design/Admin														
Right-of-way														
Construction														
PROJECT: Airport Channel - Naples Channel and Peaking Basin														
Design/Admin														
Right-of-way														
Construction														
PROJECT: Vegas Valley Drive - Flamingo Wash to Burnham														
Design/Admin														
Right-of-way														
Construction														
PROJECT: Flamingo Wash - Industrial Rd. to Hotel Rio Dr.														
Design/Admin														
Right-of-way														
Construction														
SYSTEM: Lower LV Wash Tributaries					\$21,817,390	\$37,218,650	\$49,085,761	\$670,000	\$19,285,670	\$555,591	\$0	\$3,539,232	\$7,270,327	\$0
PROJECT: Tropicana Avenue Conveyance - Morris to Mountain Vista														
Design/Admin														
Right-of-way														
Construction														
PROJECT: Tropicana Avenue Conveyance - Las Vegas Wash to Boulder Hwy														
Design/Admin														
Right-of-way														
Construction														
PROJECT: Tropicana Avenue Conveyance - Boulder Hwy. to Morris														
Design/Admin														
Right-of-way														
Construction														
PROJECT: Las Vegas Wash - Branch 02 - Monson Chnl - Las Vegas Wash to Boulder Hwy.														
Design/Admin														
Right-of-way														
Construction														



EXHIBIT C

CLARK COUNTY  
10-YEAR CONSTRUCTION PROGRAM  
ADOPTED

ADOPTED					FIRST FIVE YEARS 7/2019 THRU 6/2024					SECOND FIVE YEARS 7/2024 THRU 6/2029							
	Fac. ID Mile Range	Existing Value/ Comments	Project Cost Per MPU	Total Plan	(Year 1) FY 19/20	(Year 2) FY 20/21	(Year 3) FY 21/22	(Year 4) FY 22/23	(Year 5) FY 23/24	(Year 6) FY 24/25	(Year 7) FY 25/26	(Year 8) FY 26/27	(Year 9) FY 27/28	(Year 10) FY 28/29			
TOTAL PLAN					Annual Resources	\$899,655,079	\$253,190,812	\$42,076,140	\$45,535,206	\$49,126,044	\$145,862,830	\$49,863,510	\$54,012,827	\$58,298,684	\$155,644,160	\$60,242,096	
Unencumbered from previous year		(\$14,197,230)	Cumulative Available Resources	\$883,732,442	\$70,196,925	\$29,719,498	\$27,167,327	\$13,445,505	\$74,393,172	\$62,716,118	\$53,099,505	\$48,869,754	\$25,329,041	\$15,922,637			
ENTITY RESOURCES					Annual Resources	\$293,042,389	\$108,538,018	\$11,878,071	\$12,854,563	\$13,868,255	\$41,176,995	\$14,076,441	\$15,247,791	\$16,457,686	\$43,838,259	\$17,008,310	
Unencumbered from previous year		\$35,062,395	Cumulative Available Resources		\$29,434,094	\$7,876,851	\$11,926,344	\$1,865,679	\$23,442,377	\$7,486,628	\$15,202,886	\$10,168,327	\$1,289,264	\$785,784			
ENTITY TOTAL					\$1,532,456,175	\$652,450,607	\$292,256,605	\$77,103,924	\$33,435,314	\$8,805,070	\$23,928,920	\$19,600,297	\$30,032,190	\$7,531,533	\$21,492,245	\$52,817,321	\$17,509,790
HYDROGRAPHIC BASIN: Duck Creek/ Blue Diamond		\$512,285,110	\$301,091,860	\$84,066,733	\$34,259,460	\$9,042,218	\$5,679,467	\$21,592,139	\$13,493,450	\$0	\$0	\$0	\$0	\$0			
SYSTEM: Blue Diamond Tributaries		\$76,756,840	\$61,719,030	\$21,624,828	\$0	\$7,778,449	\$5,679,467	\$0	\$8,166,913	\$0	\$0	\$0	\$0	\$0			
PROJECT: Blue Diamond Wash - Arville to I-15																	
Design/Admin		BDWA 0276	Design Started 18/19	\$1,050,120		\$432,649											
Right-of-way			CLA16O19	\$840,090													
Construction				\$5,250,590		\$5,408,108											
PROJECT: Duck Cr. / Blue Diamond, Bermuda to Las Vegas Blvd.																	
Design/Admin		DCBD 0075, 0082 & 0084	Design Started 18/19	\$991,380			\$420,702										
Right-of-way			CLA39A19	\$793,100													
Construction				\$4,956,890		\$5,258,765											
PROJECT: Blue Diamond Channel, Amigo to Haven																	
Design/Admin		BDWA 0087 thru 0175		\$1,343,740		\$830,431			\$604,958								
Right-of-way				\$1,075,010		\$1,107,260											
Construction				\$6,718,700					\$7,561,958								
SYSTEM: Upper Duck Creek					\$123,500,470	\$75,203,030	\$34,590,436	\$28,000,130	\$1,263,769	\$0	\$0	\$5,328,538	\$0	\$0	\$0	\$0	
PROJECT: Duck Creek Jones Boulevard																	
Design/Admin		DCJB 0000, 0043	RTC Project	\$1,347,940	\$539,176												
Right-of-way				\$1,078,350													
Construction				\$6,739,670		\$1,684,918											
PROJECT: Silverado Ranch Detention Basin and Outfall Facilities																	
Design/Admin		BD02 0125 thru 0312, 0359 and 0385	Design Started 13/14	\$2,861,730	\$1,144,692												
Right-of-way			CLA08S13	\$2,289,380													
Construction			Eng. Est.	\$14,308,620		\$21,131,344											
PROJECT: Blue Diamond Channel 02, Decatur - Le Baron to Richmar																	
Design/Admin		BD02 0334	RTC Project		\$500,000												
Right-of-way			No Design														
Construction					\$3,500,000	\$3,000,000											
PROJECT: Blue Diamond Wash Railroad																	
Design/Admin		BDW5 0026		\$876,400		\$541,615			\$394,558								
Right-of-way				\$701,120		\$722,154											
Construction				\$4,382,000					\$4,931,980								
SYSTEM: Lower Duck Creek					\$176,428,900	\$39,736,410	\$23,787,683	\$2,195,544	\$0	\$0	\$21,592,139	\$0	\$0	\$0	\$0	\$0	
PROJECT: Duck Creek, Sunset Park																	
Design/Admin		DCSP 0000, 0115		\$3,659,240	\$2,195,544			\$1,599,420									
Design/Admin				\$2,927,390													
Construction				\$18,296,170				\$19,992,719									
SYSTEM: Central Duck Creek					\$135,598,900	\$124,433,390	\$4,063,786	\$4,063,786	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
PROJECT: Duck Creek Wash, Torrey Pines to Rainbow																	
Design/Admin		DCWA 1827	Developer Participation	\$336,810													
Right-of-way				\$269,450													
Construction				\$1,684,060		\$600,000											
PROJECT: Duck Creek Haven Street																	
Design/Admin		DCHV 0026, 0050, 0057	RTC Project	\$641,440	\$256,576												
Right-of-way			No Design	\$513,150													
Construction				\$3,207,210		\$3,207,210											

EXHIBIT C

CLARK COUNTY  
10-YEAR CONSTRUCTION PROGRAM  
ADOPTED

					FIRST FIVE YEARS 7/2019 THRU 6/2024					SECOND FIVE YEARS 7/2024 THRU 6/2029				
	Fac. ID Mile Range	Existing Value/ Comments	Project Cost Per MPU	Total Plan	(Year 1) FY 19/20	(Year 2) FY 20/21	(Year 3) FY 21/22	(Year 4) FY 22/23	(Year 5) FY 23/24	(Year 6) FY 24/25	(Year 7) FY 25/26	(Year 8) FY 26/27	(Year 9) FY 27/28	(Year 10) FY 28/29
TOTAL PLAN														
Unencumbered from previous year														
Annual Resources														
Cumulative Available Resources														
ENTITY RESOURCES														
Annual Resources														
Cumulative Available Resources														
Unencumbered from previous year														
ENTITY TOTAL														
HYDROGRAPHIC BASIN: Outlying Areas														
SYSTEM: Goodsprings														
PROJECT: Goodsprings - Phase I														
Design/Admin														
Right-of-way														
Construction														
SYSTEM: Muddy River & Tributaries														
PROJECT: Fairgrounds - Detention Basin (Whipple Street)														
Design/Admin														
Right-of-way														
Construction														
PROJECT: Muddy River - Cooper to Yamashita														
Design/Admin														
Right-of-way														
Construction														
PROJECT: Ryan Avenue to Lewis														
Design/Admin														
Right-of-way														
Construction														
SYSTEM: Mount Charleston														
PROJECT: Rainbow Canyon Boulevard Bridge														
Design/Admin														
Right-of-way														
Construction														
SYSTEM: Laughlin														
PROJECT: Bridge Canyon Detention Basin														
Design/Admin														
Right-of-way														
Construction														
PROJECT: Hiko Detention Basin Expansion														
Design/Admin														
Right-of-way														
Construction														
SYSTEM: Searchlight														
PROJECT: Searchlight - West - State Hwy 164														
Design/Admin														
Right-of-way														
Construction														
PROJECT: Searchlight - West														
Design/Admin														
Right-of-way														
Construction														
SYSTEM: Bunkerville														
PROJECT: Jess Walte Wash Diversion Dike														
Design/Admin														
Right-of-way														
Construction														



EXHIBIT C

CITY OF BOULDER CITY  
10-YEAR CONSTRUCTION PROGRAM  
ADOPTED

ADOPTED					FIRST FIVE YEARS 7/2019 THRU 6/2024					SECOND FIVE YEARS 7/2024 THRU 6/2029					
Fac. ID Mile Range		Existing Value/ Comments	Project Cost Per MPU	Total Plan	(Year 1) FY 19/20	(Year 2) FY 20/21	(Year 3) FY 21/22	(Year 4) FY 22/23	(Year 5) FY 23/24	(Year 6) FY 24/25	(Year 7) FY 25/26	(Year 8) FY 26/27	(Year 9) FY 27/28	(Year 10) FY 28/29	
TOTAL PLAN				Annual Resources	\$899,655,079	\$253,190,812	\$42,076,140	\$45,535,206	\$49,126,044	\$145,862,830	\$49,863,510	\$54,012,827	\$58,298,684	\$155,644,160	\$60,242,096
Unencumbered from previous year		(\$14,197,230)	Cumulative Available Resources	\$883,732,442	\$70,196,925	\$29,719,498	\$27,167,327	\$13,445,505	\$74,393,172	\$62,716,118	\$53,099,505	\$48,869,754	\$25,329,041	\$15,922,637	
ENTITY RESOURCES				Annual Resources	\$13,968,413	\$3,354,268	\$675,993	\$731,566	\$789,256	\$2,343,423	\$801,104	\$867,767	\$936,623	\$2,500,569	\$967,846
Unencumbered from previous year		(\$713,479)	Cumulative Available Resources		\$3,325,246	\$4,001,239	\$141,266	\$146,093	\$2,489,515	\$934,149	(\$3,105,668)	(\$2,169,045)	(\$92,811)	(\$252,796)	
ENTITY TOTAL		\$1,143,190	\$4,557,420	\$14,221,209	\$29,022	\$0	\$4,591,538	\$784,429	\$0	\$2,356,470	\$4,907,584	\$0	\$424,335	\$1,127,830	
HYDROGRAPHIC BASIN: Boulder City		\$1,143,190	\$4,557,420	\$14,221,209	\$29,022	\$0	\$4,591,538	\$784,429	\$0	\$2,356,470	\$4,907,584	\$0	\$424,335	\$1,127,830	
SYSTEM: Georgia/Buchanan		\$611,890	\$960,430	\$9,252,171	\$0	\$0	\$239,613	\$499,011	\$0	\$2,356,470	\$4,907,584	\$0	\$121,663	\$1,127,830	
PROJECT: Avenue 1 Storm Drain								\$499,011			\$363,522				
Design/Admin	GBGR 0189, 0204, 0216, 0218, 0302		\$761,110	\$5,406,595											
Right-of-way			\$0												
Construction			\$3,805,580							\$4,544,062					
PROJECT: Georgia Buchanan Confluence Facilities															
Design/Admin	GBGR 0003, GBBC 0020		\$376,430	\$2,596,063			\$239,613			\$174,554					
Right-of-way			\$0												
Construction			\$1,882,140					\$2,181,916							
PROJECT: Georgia Avenue Facilities - Vaquero Drive Bridge															
Design/Admin	GBGR 0099		\$160,070	\$1,249,493									\$121,663	\$83,542	
Right-of-way			\$0												
Construction			\$800,360							\$1,044,288					
SYSTEM: Hemenway		\$42,180	\$3,496,000	\$4,351,925	\$0	\$0	\$4,351,925	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
PROJECT: Hemenway System, Phase IIB Improvements															
Design/Admin	HMWA 0005, 0105 & HMLV 0004, 0006 HMWA 0200, 0201, 0202	Design Started 09/10	\$412,320	\$4,351,925			\$284,705								
Right-of-way		BOU01C10	\$0												
Construction		Eng. Est	\$2,113,940				\$4,067,220								
SYSTEM: North Railroad		\$489,120	\$100,990	\$314,440	\$29,022	\$0	\$0	\$285,418	\$0	\$0	\$0	\$0	\$0	\$0	
PROJECT: Wells Drive Levee Lining															
Design/Admin	NRIN 0088		\$48,370	\$314,440	\$29,022			\$21,142							
Right-of-way			\$0												
Construction			\$241,850				\$264,276								
SYSTEM: West Airport		\$0	\$0	\$302,672	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$302,672	\$0	
PROJECT: West Airport Facilities															
Design/Admin	WAAP 0036, 0076, 0077		\$398,220	\$302,672									\$302,672		
Right-of-way			\$0												
Construction			\$1,991,110												



EXHIBIT C

CITY OF MESQUITE  
10-YEAR CONSTRUCTION PROGRAM  
ADOPTED

ADOPTED					FIRST FIVE YEARS 7/2019 THRU 6/2024					SECOND FIVE YEARS 7/2024 THRU 6/2029							
		Fac. ID Mile Range	Existing Value/ Comments	Project Cost Per MPU	Total Plan	(Year 1) FY 19/20	(Year 2) FY 20/21	(Year 3) FY 21/22	(Year 4) FY 22/23	(Year 5) FY 23/24	(Year 6) FY 24/25	(Year 7) FY 25/26	(Year 8) FY 26/27	(Year 9) FY 27/28	(Year 10) FY 28/29		
TOTAL PLAN					Annual Resources	\$899,655,079	\$253,190,812	\$42,076,140	\$45,535,206	\$49,126,044	\$145,862,830	\$49,863,510	\$54,012,827	\$58,298,684	\$155,644,160	\$60,242,096	
Unencumbered from previous year		(\$14,197,230)	Cumulative Available Resources		\$883,732,442	\$70,196,925	\$29,719,498	\$27,167,327	\$13,445,505	\$74,393,172	\$62,716,118	\$53,099,505	\$48,869,754	\$25,329,041	\$15,922,637		
ENTITY RESOURCES					Annual Resources	\$28,742,656	\$11,030,329	\$1,128,061	\$1,220,798	\$1,317,069	\$3,910,581	\$1,336,840	\$1,448,083	\$1,562,987	\$4,172,818	\$1,615,090	
Unencumbered from previous year		\$4,242,286	Cumulative Available Resources			\$6,037,449	\$7,095,016	\$7,713,784	\$430,853	\$3,213,523	(\$3,727,644)	(\$2,279,561)	(\$716,574)	\$3,456,244	\$5,071,334		
ENTITY TOTAL			\$70,955,608	\$57,741,074	\$23,671,322	\$4,992,880	\$70,494	\$602,030	\$8,600,000	\$1,127,911	\$8,278,007	\$0	\$0	\$0	\$0		
HYDROGRAPHIC BASIN: Mesquite			\$70,955,608	\$57,741,074	\$23,671,322	\$4,992,880	\$70,494	\$602,030	\$8,600,000	\$1,127,911	\$8,278,007	\$0	\$0	\$0	\$0		
SYSTEM: Town Wash			\$31,271,987	\$20,342,184	\$13,872,917	\$4,992,880	\$0	\$602,030	\$0	\$0	\$8,278,007	\$0	\$0	\$0	\$0		
PROJECT: Town Wash - Mesa Boulevard, El Dorado to Town Wash																	
Design/Admin		TWMB 0000	Design started 17/18	\$623,347	\$4,992,880	\$264,524											
Design/Admin		thru 0044,	MES01E17	\$454,532													
Construction		TOWA 0120		\$4,456,929		\$4,728,356											
PROJECT: Town Wash Mesa Boulevard, El Dorado to Chaparral																	
Design/Admin		TWMB 0052, 0084, 0094		\$891,493	\$8,880,037			\$602,030			\$438,570						
Right-of-way				\$713,195													
Construction				\$6,374,180							\$7,839,437						
SYSTEM: Virgin River			\$0	\$20,376,880	\$9,798,405	\$0	\$70,494	\$0	\$8,600,000	\$1,127,911	\$0	\$0	\$0	\$0	\$0		
PROJECT: Virgin River Flood Wall																	
Design/Admin		VREC 0000	Design started 15/16	\$78,530	\$8,600,000				\$600,000								
Right-of-way			MES04A15	\$62,823													
Construction			Eng Cost Est	\$465,287					\$8,000,000								
PROJECT: Virgin River Erosion Protection, Phase I																	
Design/Admin		VREC 0203, 0323, 0508, 0518		\$107,520	\$1,198,405		\$70,494			\$51,354							
Right-of-way				\$926,240													
Construction				\$901,600							\$1,076,558						

## **EXHIBIT D**

**EXHIBIT D**  
**FISCAL YEAR 2019 - 2020**  
**PROJECT LIST**

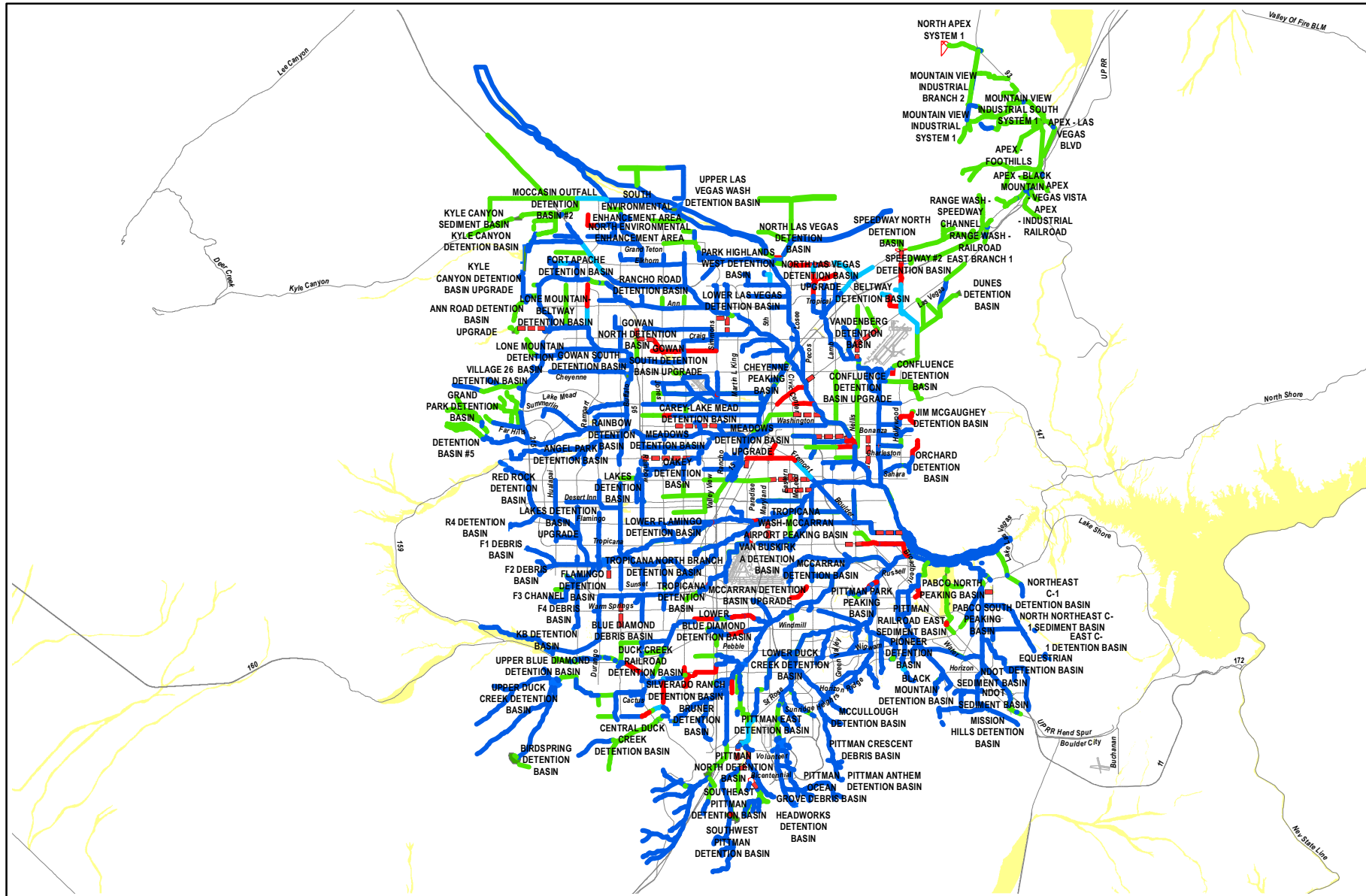
	Facility ID Mile Range	(Year 1) FY 19/20	(Year 2) FY 20/21	(Year 3) FY 21/22
<b>CITY OF HENDERSON</b>	<b>TOTAL ELIGIBLE YEAR 1</b>	<b>\$10,406,748</b>		
<b>HYDROGRAPHIC BASIN: PITTMAN</b>	<b>ENTITY TOTAL</b>	<b>\$2,195,658</b>	<b>\$6,463,808</b>	<b>\$1,747,281</b>
SYSTEM: Pittman Burns		\$1,463,860	\$0	\$0
PROJECT: Galleria to Sunset				
Construction	PTSU 0000, 0008, 0023, 0028, 0032	\$1,463,860		
SYSTEM: Lower Pittman		\$0	\$6,463,808	\$1,747,281
PROJECT: Whitney Ranch Channel Replacement Project				
Design/Admin	WWDC 0001, 0016, 0031, 0034, 0053, 0056		\$478,798	
Construction			\$5,985,011	
PROJECT: Whitney Ranch Channel Replacement Project, Phase II				
Design/Admin	WWDC 0070			\$129,430
Construction				\$1,617,851
SYSTEM: Pittman Pabco		\$731,798	\$0	\$0
PROJECT: Boulder Highway Crossing at Water Street				
Design/Admin	PTPA 0285, 0286	\$54,208		
Construction		\$677,590		
<b>CITY OF LAS VEGAS</b>	<b>TOTAL ELIGIBLE YEAR 1</b>	<b>\$90,992,484</b>		
<b>HYDROGRAPHIC BASIN: CENTRAL</b>	<b>ENTITY TOTAL</b>	<b>\$44,932,769</b>	<b>\$27,977,527</b>	<b>\$18,082,188</b>
SYSTEM: LV Wash I-15 Tributary		\$44,035,229	\$115,613	\$0
PROJECT: Lake Mead - Carey - Lake Mead Detention Basin Outfall		\$12,474	\$115,613	\$0
Design/Admin		\$12,474	\$8,565	
Construction	LVLN 0221		\$107,048	
SYSTEM: Sahara Boulder Highway		\$44,022,755	\$0	\$0
PROJECT: Flamingo - Boulder Hwy North, Charleston - Boulder Hwy to Maryland Parkway and Maryland Pkwy System				
Design/Admin	FLBN 0170, 0180, 0205, 0275, 0280 & FLMP 0000, 0013, 0042, 0068	\$1,152,876		
Construction		\$42,869,879		
<b>HYDROGRAPHIC BASIN: GOWAN</b>		\$0	\$27,861,914	\$18,082,188
SYSTEM: Gowan North		\$0	\$27,861,914	\$18,082,188
PROJECT: Gowan Outfall - Alexander Rd., Decatur Blvd. to Simmons Street				
Design/Admin	GOOF 0275, 0285, 0325, 0375		\$2,063,844	
Construction			\$25,798,070	
PROJECT: Gowan Outfall - El Capitan Branch, Ann Road to Centennial				
Design/Admin	GOEC 0100, 0126, 0152, 0176			\$561,700
Construction				\$7,021,227
PROJECT: Gowan - Alexander Rd., Rancho to Decatur				
Design/Admin	GOAL 0000, 0056			\$777,725
Construction				\$9,721,536
<b>HYDROGRAPHIC BASIN: UPPER NORTHERN LV WASH</b>		\$897,540	\$0	\$0
SYSTEM: Upper Western Tributary		\$897,540	\$0	\$0
PROJECT: Brent Drainage System - Durango to El Capitan				
Design/Admin	BRDB 0107, 0157	\$897,540		
<b>CITY OF NORTH LAS VEGAS</b>	<b>TOTAL ELIGIBLE YEAR 1</b>	<b>\$63,803,693</b>		
<b>HYDROGRAPHIC BASIN: LOWER NORTHERN LV WASH</b>	<b>ENTITY TOTAL</b>	<b>\$39,542,403</b>	<b>\$10,002,021</b>	<b>\$14,259,269</b>
SYSTEM: Cheyenne Lamb Nellis		\$698,289	\$0	\$0
PROJECT: Las Vegas Wash Cartier Channel		\$698,289	\$0	\$0
Design/Admin	LVCC 0000, 0030, 0035	\$698,289		
<b>HYDROGRAPHIC BASIN: RANGE</b>		\$38,844,114	\$10,002,021	\$14,259,269
SYSTEM: Lower Range		\$769,320	\$0	\$14,259,269
PROJECT: Jim McGaughey (Formerly Owens) Detention Basin & Outfall				
Design/Admin	SLWA 0130 thru 0175 & SLOW 0000, 0005			\$932,849
Right-of-way		\$769,320		
Construction				\$13,326,420
SYSTEM: West Range		\$32,552,200	\$0	\$0
PROJECT: Vandenberg North Detention Basin, Collection & Outfall - Phase 2				
Design/Admin	RWWE 0352, 0397, 0406, 0407, 0409, 0422, 0428, 0439, 0454	\$2,900,000		
Construction		\$29,652,200		
SYSTEM: East Range		\$5,522,594	\$10,002,021	\$0
PROJECT: Range Wash - Ann Branch, Phase 2				
Design/Admin	RWAN 0001, 0050		\$674,889	
Construction			\$9,327,132	
PROJECT: Hollywood System, Centennial Pkwy to Speedway #2 Detention Basin				
Design/Admin	RWHW 0300, 0355, 0369, 0410	\$409,084		
Construction		\$5,113,510		

**EXHIBIT D  
FISCAL YEAR 2019 - 2020  
PROJECT LIST**

Facility ID Mile Range		(Year 1) FY 19/20	(Year 2) FY 20/21	(Year 3) FY 21/22
<b>CLARK COUNTY</b>		<b>TOTAL ELIGIBLE YEAR 1</b>		
		<b>\$112,657,365</b>		
<b>ENTITY TOTAL</b>		<b>\$77,103,924</b>	<b>\$29,873,973</b>	<b>\$5,679,467</b>
<b>HYDROGRAPHIC BASIN: Tropicana/ Flamingo</b>		<b>\$28,820,000</b>	<b>\$23,296,712</b>	<b>\$0</b>
<b>SYSTEM: Lower Flamingo</b>		<b>\$28,150,000</b>	<b>\$4,370,922</b>	<b>\$0</b>
<b>PROJECT: Wagon Trail Channel - Sunset to Teco</b>				
Design/Admin	WGTR 0111		\$103,680	
Construction			\$1,295,987	
<b>PROJECT: Flamingo Wash, Maryland to Palos Verde</b>				
Design/Admin	FLWA 0621 & 0673		\$220,095	
Construction			\$2,751,161	
<b>PROJECT: Airport Channel - Naples Channel and Peaking Basin</b>				
Design/Admin	TRMC 0013, 0014, 0031, 0033	\$1,750,000		
Construction		\$25,000,000		
<b>PROJECT: Flamingo Wash - Industrial Rd. to Hotel Rio Dr.</b>				
Design/Admin	FLWA 0893 & 0896	\$100,000		
Construction		\$1,300,000		
<b>SYSTEM: Lower LV Wash Tributaries</b>		<b>\$670,000</b>	<b>\$18,925,790</b>	<b>\$0</b>
<b>PROJECT: Tropicana Avenue Conveyance - Las Vegas Wash to Boulder Hwy</b>				
Design/Admin	LV01 0001, 0038, 0080, 0118	\$670,000	\$725,790	
Construction			\$18,200,000	
<b>HYDROGRAPHIC BASIN: Duck Creek/ Blue Diamond</b>		<b>\$34,259,460</b>	<b>\$5,840,757</b>	<b>\$5,679,467</b>
<b>SYSTEM: Blue Diamond Tributaries</b>		<b>\$0</b>	<b>\$5,840,757</b>	<b>\$5,679,467</b>
<b>PROJECT: Blue Diamond Wash - Arville to I-15</b>				
Design/Admin	BDWA 0276		\$432,649	
Construction			\$5,408,108	
<b>PROJECT: Duck Cr. / Blue Diamond, Bermuda to Las Vegas Blvd.</b>				
Design/Admin	DCBD 0075, 0082 & 0084			\$420,702
Construction				\$5,258,765
<b>SYSTEM: Upper Duck Creek</b>		<b>\$28,000,130</b>	<b>\$0</b>	<b>\$0</b>
<b>PROJECT: Duck Creek Jones Boulevard</b>				
Design/Admin	DCJB 0000, 0043	\$539,176		
Construction		\$1,684,918		
<b>PROJECT: Silverado Ranch Detention Basin and Outfall Facilities</b>				
Design/Admin	BD02 0125 thru 0312, 0359 and 0385	\$1,144,692		
Construction		\$21,131,344		
<b>PROJECT: Blue Diamond Channel 02, Decatur - Le Baron to Richmar</b>				
Design/Admin	BD02 0334	\$500,000		
Construction		\$3,000,000		
<b>SYSTEM: Lower Duck Creek</b>		<b>\$2,195,544</b>	<b>\$0</b>	<b>\$0</b>
<b>PROJECT: Duck Creek, Sunset Park</b>				
Design/Admin	DCSP 0000, 0115	\$2,195,544		
<b>SYSTEM: Central Duck Creek</b>		<b>\$4,063,786</b>	<b>\$0</b>	<b>\$0</b>
<b>PROJECT: Duck Creek Wash, Torrey Pines to Rainbow</b>				
Construction	DCWA 1827	\$600,000		
<b>PROJECT: Duck Creek Haven Street</b>				
Design/Admin	DCHV 0026, 0050, 0057	\$256,576		
Construction		\$3,207,210		
<b>HYDROGRAPHIC BASIN: Outlying Areas</b>		<b>\$14,024,465</b>	<b>\$736,504</b>	<b>\$0</b>
<b>SYSTEM: Goodsprings</b>		<b>\$993,948</b>	<b>\$0</b>	<b>\$0</b>
<b>PROJECT: Goodsprings - Phase I</b>				
Design/Admin	GSEA 0000, GSPA 0027 & 0029, GSRV 0019	\$48,715		
Right-of-way		\$74,454		
Construction		\$870,779		
<b>SYSTEM: Muddy River &amp; Tributaries</b>		<b>\$11,237,678</b>	<b>\$0</b>	<b>\$0</b>
<b>PROJECT: Fairgrounds - Detention Basin (Whipple Street)</b>				
Design/Admin	FGWS 0000, 0075, 0105, 0128, 0164, 0165, 0166	\$609,852		
Construction		\$10,627,826		
<b>SYSTEM: Laughlin</b>		<b>\$154,448</b>	<b>\$0</b>	<b>\$0</b>
<b>PROJECT: Hiko Detention Basin Expansion</b>				
Design/Admin	LUHS 0244	\$154,448		
<b>SYSTEM: Searchlight</b>		<b>\$56,825</b>	<b>\$736,504</b>	<b>\$0</b>
<b>PROJECT: Searchlight - West - State Hwy 164</b>				
Design/Admin	SRWE 0001, 0005 & 0023	\$56,825	\$39,020	
Construction			\$697,484	
<b>SYSTEM: Bunkerville</b>		<b>\$1,581,566</b>	<b>\$0</b>	<b>\$0</b>
<b>PROJECT: Jess Waite Wash Diversion Dike</b>				
Design/Admin	JEWA 0166	\$29,776		
Construction		\$1,551,790		
<b>BOULDER CITY</b>		<b>TOTAL ELIGIBLE YEAR 1</b>		
		<b>\$4,380,947</b>		
<b>ENTITY TOTAL</b>		<b>\$29,022</b>	<b>\$0</b>	<b>\$4,351,925</b>
<b>HYDROGRAPHIC BASIN: Boulder City</b>		<b>\$29,022</b>	<b>\$0</b>	<b>\$4,351,925</b>
<b>SYSTEM: Hemenway</b>		<b>\$0</b>	<b>\$0</b>	<b>\$4,351,925</b>
<b>PROJECT: Hemenway System, Phase IIB Improvements</b>				
Design/Admin	HMWA 0005, 0105, HMLV 0004, 0006, HMWA 0200, 0201, 0202			\$284,705
Construction				\$4,067,220
<b>SYSTEM: North Railroad</b>		<b>\$29,022</b>	<b>\$0</b>	<b>\$0</b>
<b>PROJECT: Wells Drive Levee Lining</b>				
Design/Admin	NRIN 0088	\$29,022		
<b>CITY OF MESQUITE</b>		<b>TOTAL ELIGIBLE YEAR 1</b>		
		<b>\$4,992,880</b>		
<b>ENTITY TOTAL</b>		<b>\$4,992,880</b>	<b>\$0</b>	<b>\$0</b>
<b>HYDROGRAPHIC BASIN: Mesquite</b>		<b>\$4,992,880</b>	<b>\$0</b>	<b>\$0</b>
<b>SYSTEM: Town Wash</b>		<b>\$4,992,880</b>	<b>\$0</b>	<b>\$0</b>
<b>PROJECT: Town Wash - Mesa Boulevard, El Dorado to Town Wash</b>				
Design/Admin	TWMB 0000 thru 0044, TOWA 0120	\$264,524		
Construction		\$4,728,356		

**MAPS**

# TEN-YEAR CONSTRUCTION PROGRAM LAS VEGAS VALLEY



**LEGEND**

**Conveyances**

**STATUS**

- Completed
- Under Construction
- EF5
- Proposed
- Ten Year - 1st Five
- Ten Year - 2nd Five

**Detention Basins**

**STATUS**

- Completed
- Under Construction
- EF5
- Proposed
- Ten Year - 1st Five
- Ten Year - 2nd Five

**100 Year Flood Zones**

- 100-Year Flood Zone



1 inch = 6.8 miles

THIS MAP IS FOR GRAPHIC USE ONLY  
AND DOES NOT REPRESENT A SURVEY.  
NO LIABILITY IS ASSURED FOR THE  
ACCURACY OF THE DATA DELINEATED  
HEREIN.

DATA SOURCES:  
CLARK COUNTY REGIONAL FLOOD  
CONTROL DISTRICT  
CLARK COUNTY GISBD  
FEMA

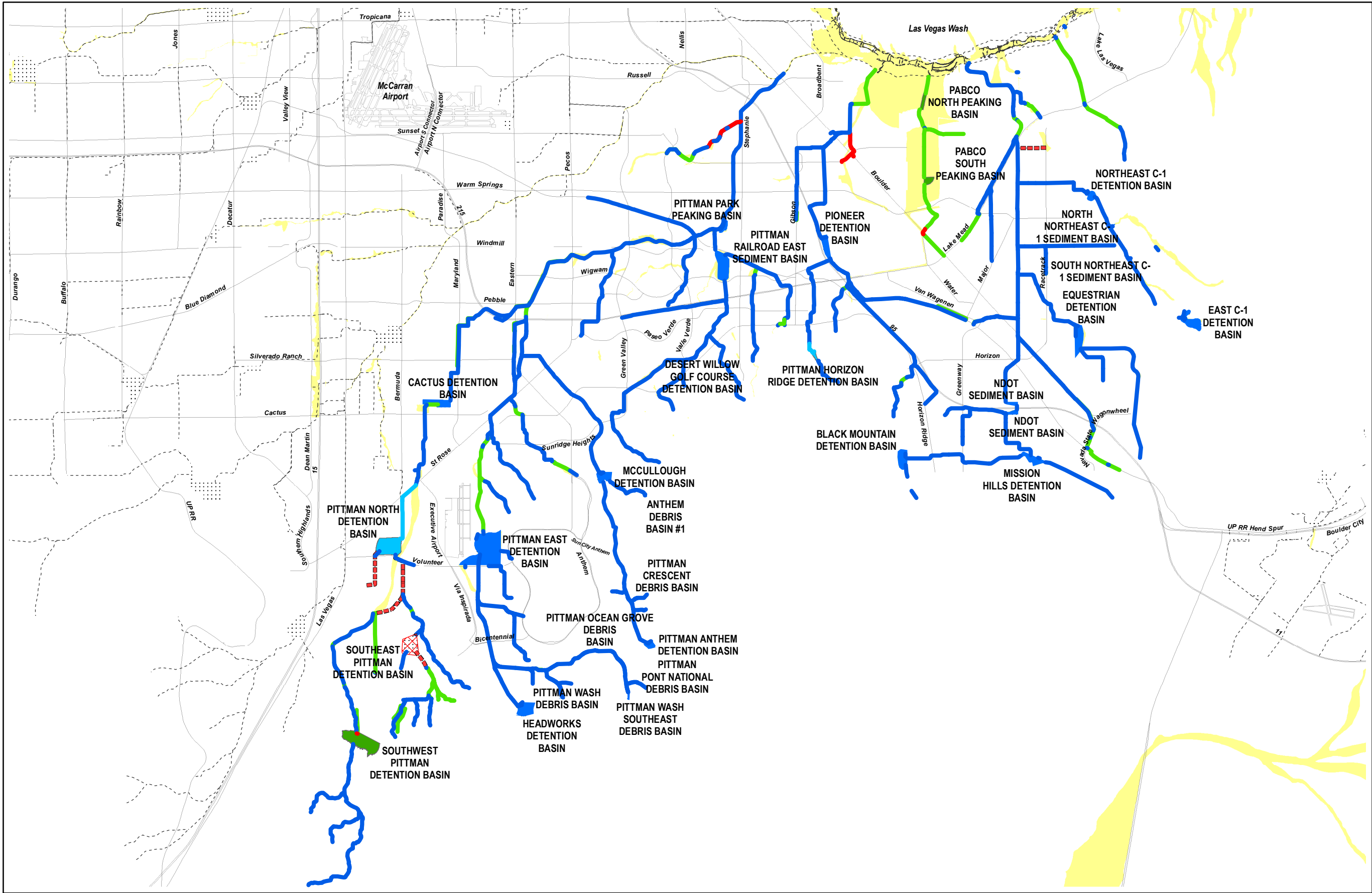
FLOOD INSURANCE (FIRM) INFORMATION:  
FEMA 2002 DIGITAL FIRM. NOT THE  
EFFECTIVE FIRM. ALL INFORMATION  
IS SUBJECT TO CHANGE. NO  
LIABILITY IS ASSURED FOR THE  
ACCURACY OF THE DATA DELINEATED  
HEREIN. ALL INQUIRIES INTO THE  
STATUS OF CLARK COUNTY REGIONAL  
FLOOD CONTROL DISTRICT FACILITIES  
SHOULD BE MADE TO THE DISTRICT  
OFFICE AT 608 S. GRAND CENTRAL PARKWAY,  
SUITE 300, LAS VEGAS, NEVADA 89106-4511.

May 2019



# TEN-YEAR CONSTRUCTION PROGRAM

## PITTMAN WASH AND C-1 CHANNEL PLANNING AREA



**LEGEND**

**Conveyances**

**STATUS**

- Completed
- Under Construction
- EFS
- Proposed
- Ten Year - 1st Five
- Ten Year - 2nd Five

**Detention Basins**

**STATUS**

- Completed
- Under Construction
- EFS
- Proposed
- Ten Year - 1st Five
- Ten Year - 2nd Five

**100 Year Flood Zones**

- 100-Year Flood Zone

1 inch = 1.7 miles

THIS MAP IS FOR GRAPHIC USE ONLY AND DOES NOT REPRESENT A SURVEY. NO LIABILITY IS ASSUMED FOR THE ACCURACY OF THE DATA DELINEATED HEREON.

DATA SOURCES:  
CLARK COUNTY REGIONAL FLOOD CONTROL DISTRICT  
CLARK COUNTY GISMO  
FEMA

FLOOD INSURANCE (FIRM) INFORMATION:  
FEMA 2002 DIGITAL FIRM. NOT THE EFFECTIVE FIRM. ALL INFORMATION IS SUBJECT TO CHANGE. NO LIABILITY IS ASSUMED FOR THE ACCURACY OF THE DATA DELINEATED HEREON. ALL INQUIRIES INTO THE STATUS OF CLARK COUNTY REGIONAL FLOOD CONTROL DISTRICT FACILITIES SHOULD BE MADE TO THE DISTRICT OFFICE AT 600 S. GRAND CENTRAL PKWY, SUITE 300, LAS VEGAS, NEVADA 89106-4511.

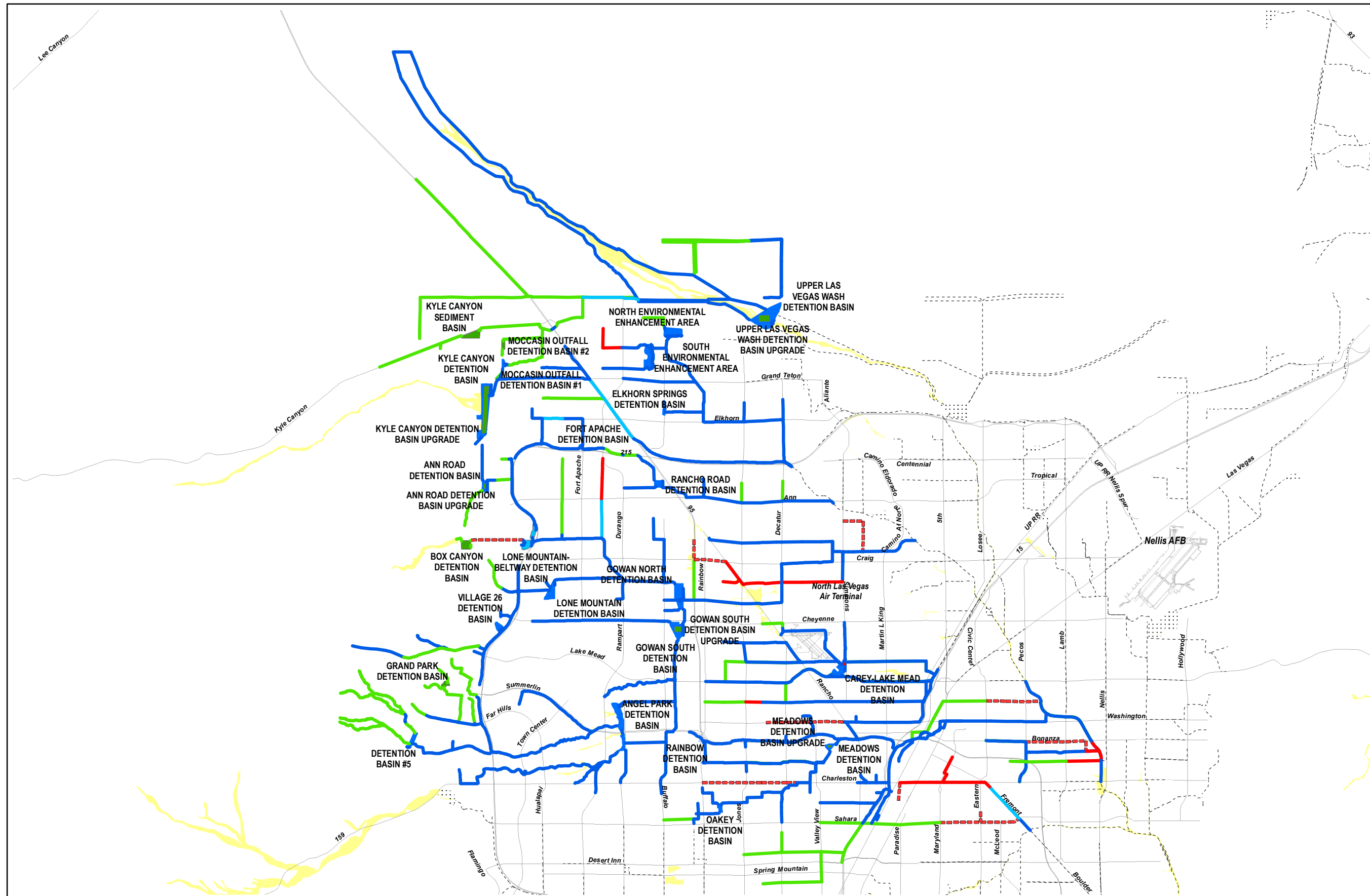
May 2019





# TEN-YEAR CONSTRUCTION PROGRAM

## GOWAN, CENTRAL AND UPPER NORTHERN BASINS PLANNING AREA



**LEGEND**

**Conveyances**

**STATUS**

- Completed
- Under Construction
- EFS
- Proposed
- Ten Year - 1st Five
- Ten Year - 2nd Five

**Detention Basins**

**STATUS**

- Completed
- Under Construction
- EFS
- Proposed
- Ten Year - 1st Five
- Ten Year - 2nd Five

**100 Year Flood Zones**

- 100-Year Flood Zone



1 inch = 2.44 miles

THIS MAP IS FOR GRAPHIC USE ONLY  
AND DOES NOT REPRESENT A SURVEY.  
NO LIABILITY IS ASSUMED FOR THE  
ACCURACY OF THE DATA DELINEATED  
HEREON.

DATA SOURCES:  
CLARK COUNTY REGIONAL FLOOD  
CONTROL DISTRICT  
CLARK COUNTY GISMO  
FEMA

FLOOD INSURANCE (FIRM) INFORMATION:  
FEMA 2002 DIGITAL FIRM. NOT THE  
EFFECTIVE FIRM. ALL INFORMATION  
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STATUS OF CLARK COUNTY REGIONAL  
FLOOD CONTROL DISTRICT FACILITIES  
SHOULD BE MADE TO THE DISTRICT  
OFFICE AT 600 S. GRAND CENTRAL PKWY,  
SUITE 300, LAS VEGAS, NEVADA 89106-4511.

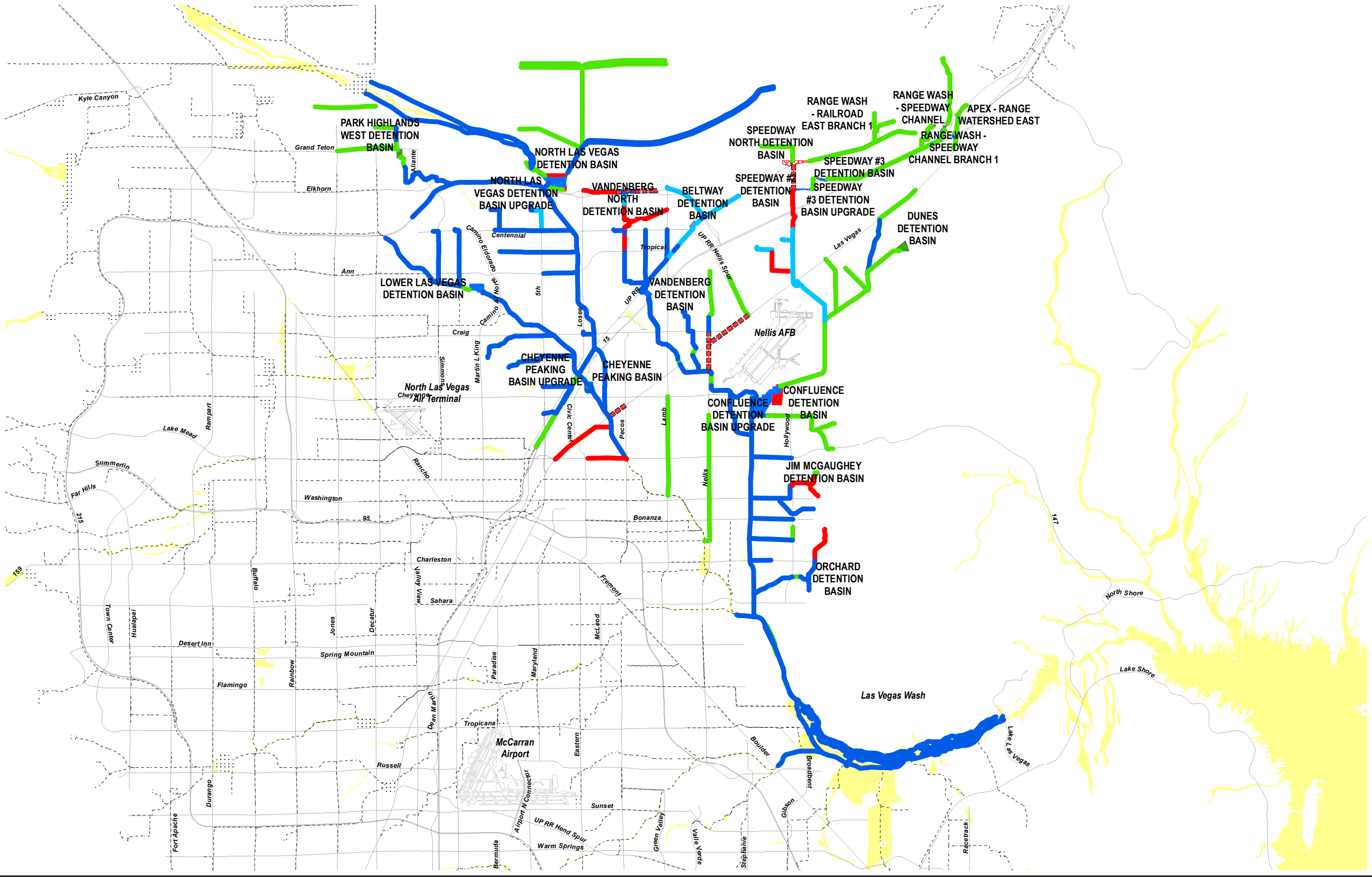
May 2019





# TEN-YEAR CONSTRUCTION PROGRAM

## LOWER NORTHERN, RANGE, AND LOWER LAS VEGAS WASH BASINS PLANNING AREA



**LEGEND**

**Conveyances**

**STATUS**

- Completed
- Under Construction
- EFS
- Proposed
- Ten Year - 1st Five
- Ten Year - 2nd Five

**Detention Basins**

**STATUS**

- Completed
- Under Construction
- EFS
- Proposed
- Ten Year - 1st Five
- Ten Year - 2nd Five

**100 Year Flood Zones**

- 100-Year Flood Zone

1 inch = 2.36 miles

THIS MAP IS FOR GRAPHIC USE ONLY AND DOES NOT REPRESENT A SURVEY. NO LIABILITY IS ASSUMED FOR THE ACCURACY OF THE DATA DELINEATED HEREON.

DATA SOURCES:  
CLARK COUNTY REGIONAL FLOOD CONTROL DISTRICT  
CLARK COUNTY GISMO  
FEMA

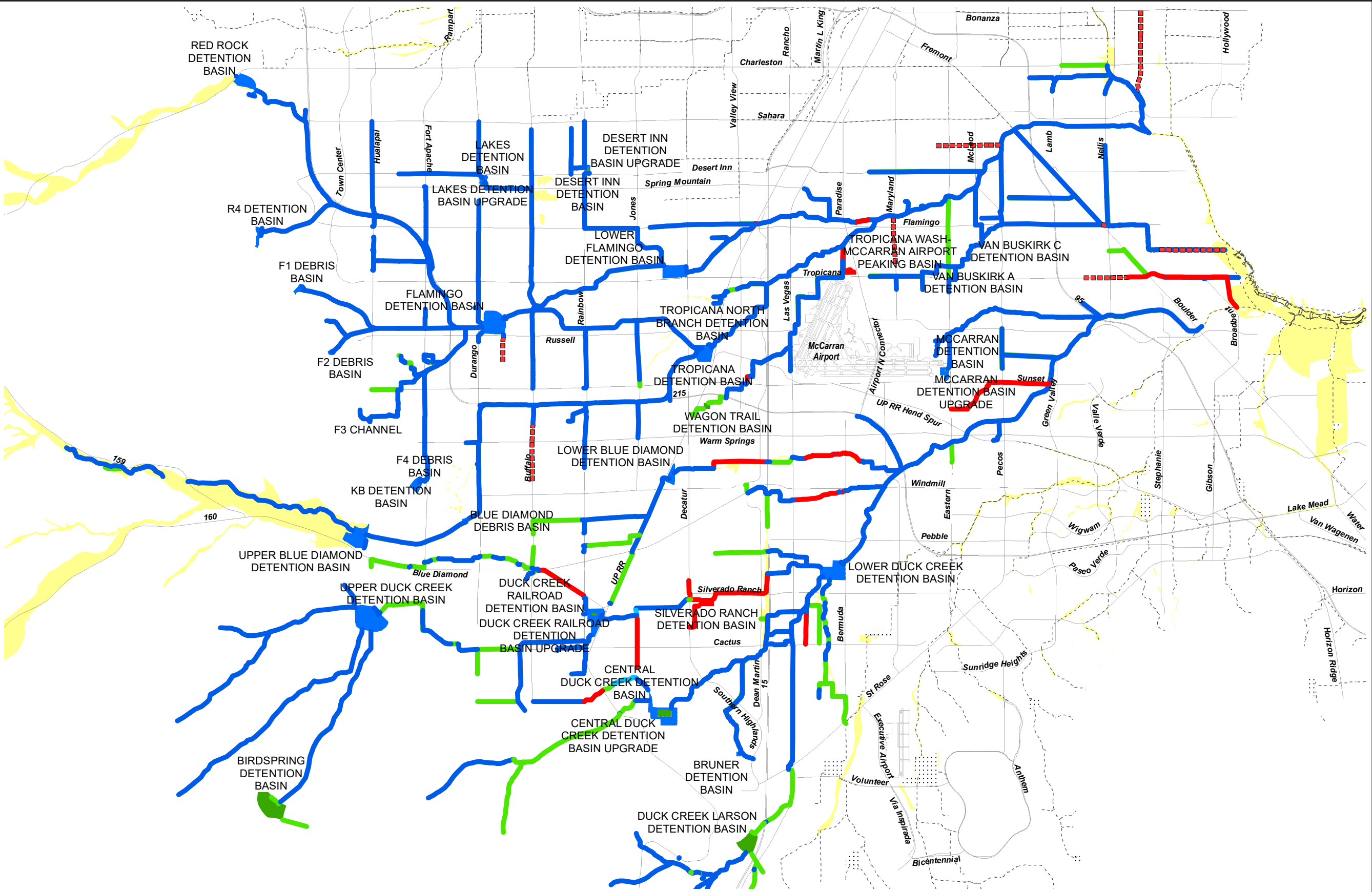
FLOOD INSURANCE (FIRM) INFORMATION:  
FEMA 2002 DIGITAL FIRM, NOT THE EFFECTIVE FIRM. ALL INFORMATION IS SUBJECT TO CHANGE. NO LIABILITY IS ASSUMED FOR THE ACCURACY OF THE DATA DELINEATED HEREON. ALL INQUIRIES INTO THE STATUS OF CLARK COUNTY REGIONAL FLOOD CONTROL DISTRICT FACILITIES SHOULD BE MADE TO THE DISTRICT OFFICE AT 600 S. GRAND CENTRAL PKWY, SUITE 300, LAS VEGAS, NEVADA 89106-4511.

May 2019

**REGIONAL FLOOD CONTROL DISTRICT**

# TEN-YEAR CONSTRUCTION PROGRAM

## FLAMINGO, TROPICANA, DUCK CREEK, AND BLUE DIAMOND PLANNING AREA



**LEGEND**

**Conveyances**

**STATUS**

- Completed
- Under Construction
- EFS
- Proposed
- Ten Year - 1st Five
- Ten Year - 2nd Five

**Detention Basins**

**STATUS**

- Completed
- Under Construction
- EFS
- Proposed
- Ten Year - 1st Five
- Ten Year - 2nd Five

**100 Year Flood Zones**

- 100-Year Flood Zone

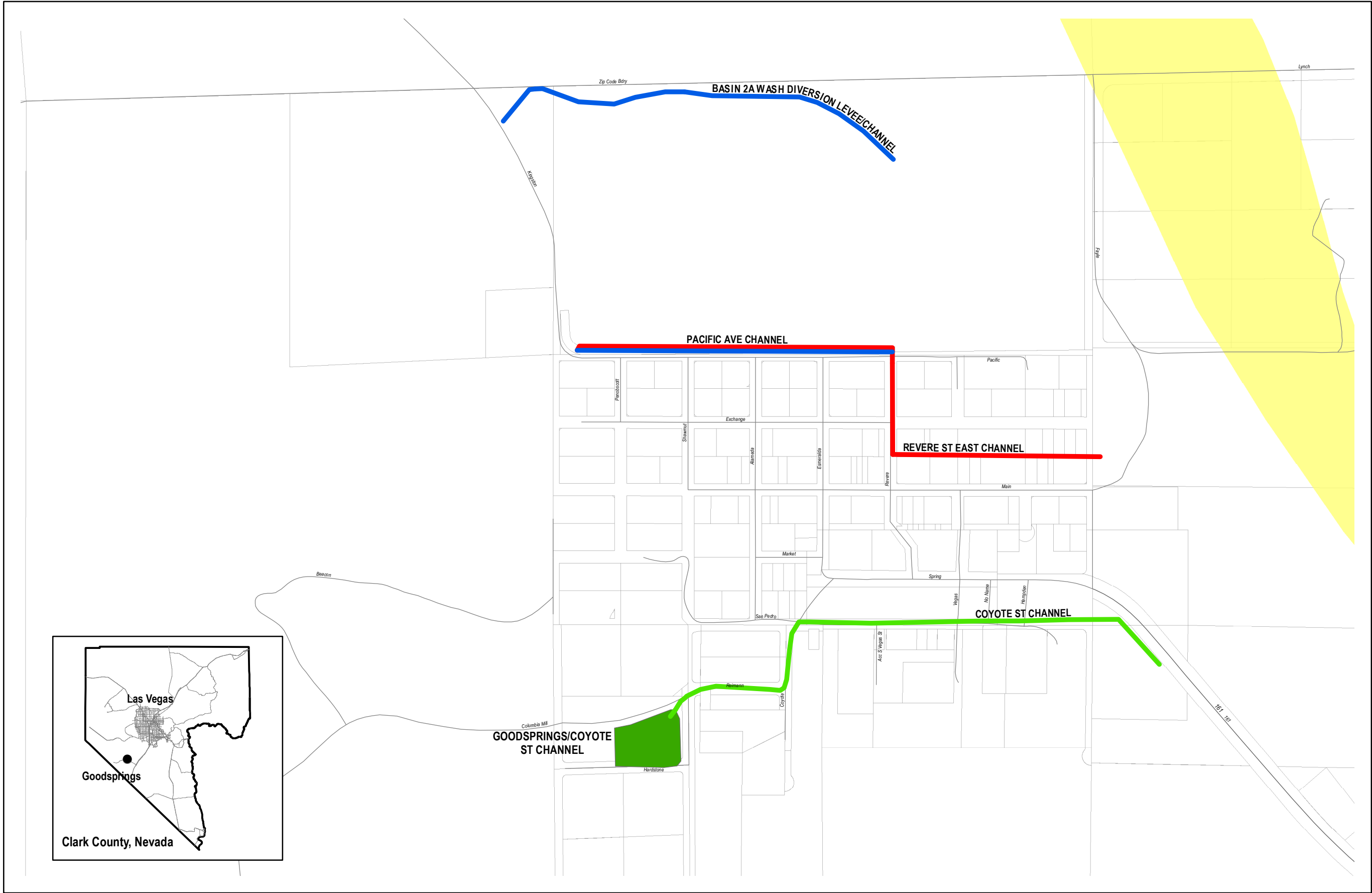
1 inch = 1.88 miles

THIS MAP IS FOR GRAPHIC USE ONLY AND DOES NOT REPRESENT A SURVEY. NO LIABILITY IS ASSUMED FOR THE ACCURACY OF THE DATA DELINEATED HEREON.

DATA SOURCES:  
CLARK COUNTY REGIONAL FLOOD CONTROL DISTRICT  
CLARK COUNTY GISMO  
FEMA

FLOOD INSURANCE (FIRM) INFORMATION:  
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# TEN-YEAR CONSTRUCTION PROGRAM GOODSPRINGS PLANNING AREA



**LEGEND**

**Conveyances**

**STATUS**

- Completed
- Under Construction
- EFS
- Proposed
- Ten Year - 1st Five
- Ten Year - 2nd Five

**Detention Basins**

**STATUS**

- Completed
- Under Construction
- EFS
- Proposed
- Ten Year - 1st Five
- Ten Year - 2nd Five

**100 Year Flood Zones**

- 100-Year Flood Zone



1 inch = 0.09 miles

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HEREON.

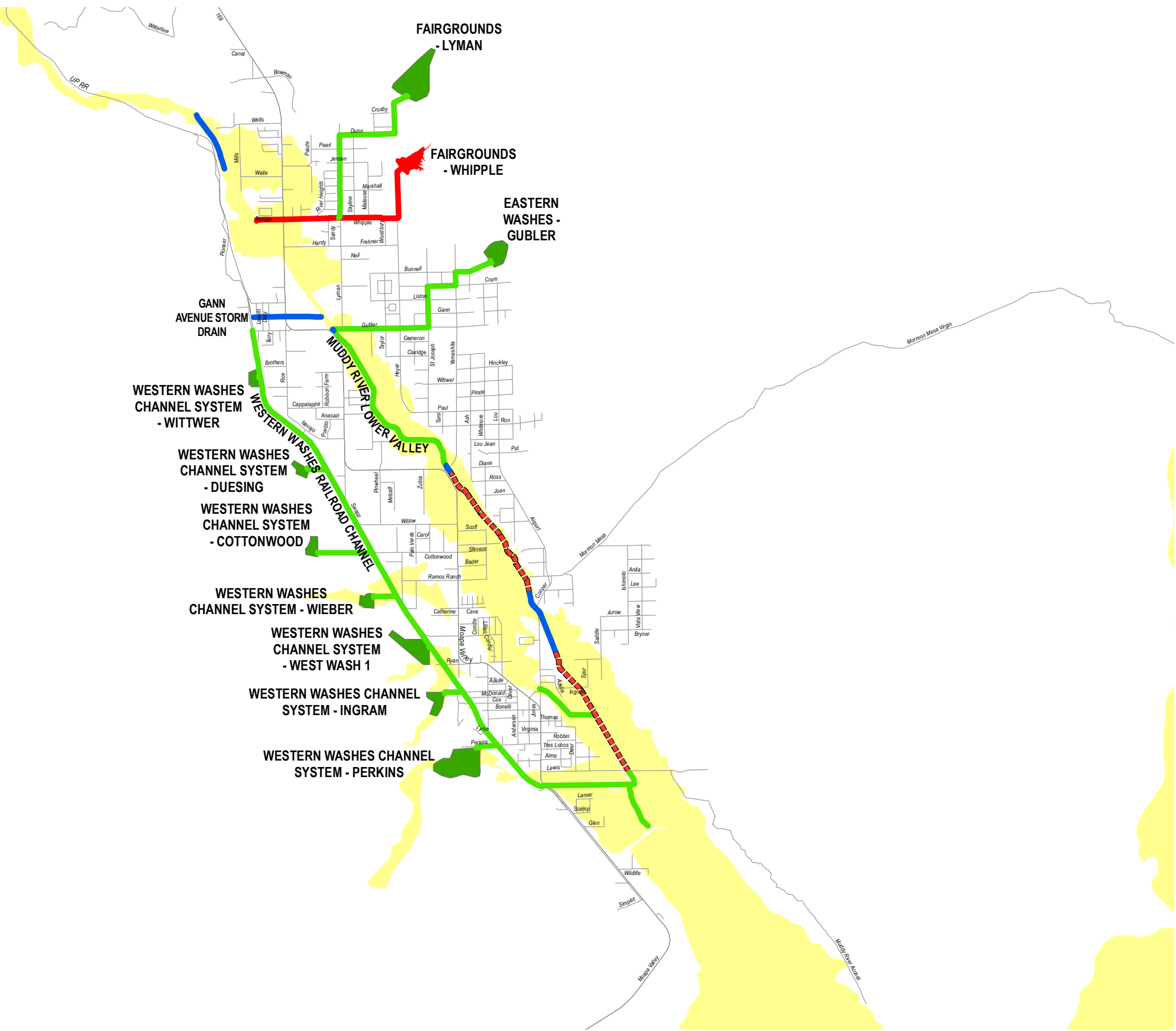
DATA SOURCES:  
CLARK COUNTY REGIONAL FLOOD  
CONTROL DISTRICT  
CLARK COUNTY GISMO  
FEMA

FLOOD INSURANCE (FIRM) INFORMATION:  
FEMA 2002 DIGITAL FIRM. NOT THE  
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FLOOD CONTROL DISTRICT FACILITIES  
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OFFICE AT 600 S. GRAND CENTRAL PKWY,  
SUITE 300, LAS VEGAS, NEVADA 89106-4511.

May 2019



TEN-YEAR CONSTRUCTION PROGRAM  
MUDDY RIVER PLANNING AREA



**LEGEND**

**Conveyances**

**STATUS**

- Completed
- Under Construction
- EFS
- Proposed
- Ten Year - 1st Five
- Ten Year - 2nd Five

**Detention Basins**

**STATUS**

- Completed
- Under Construction
- EFS
- Proposed
- Ten Year - 1st Five
- Ten Year - 2nd Five

**100 Year Flood Zones**

- 100-Year Flood Zone



1 inch = 1.02 miles

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HEREON.

DATA SOURCES:  
CLARK COUNTY REGIONAL FLOOD  
CONTROL DISTRICT  
CLARK COUNTY GISMO  
FEMA

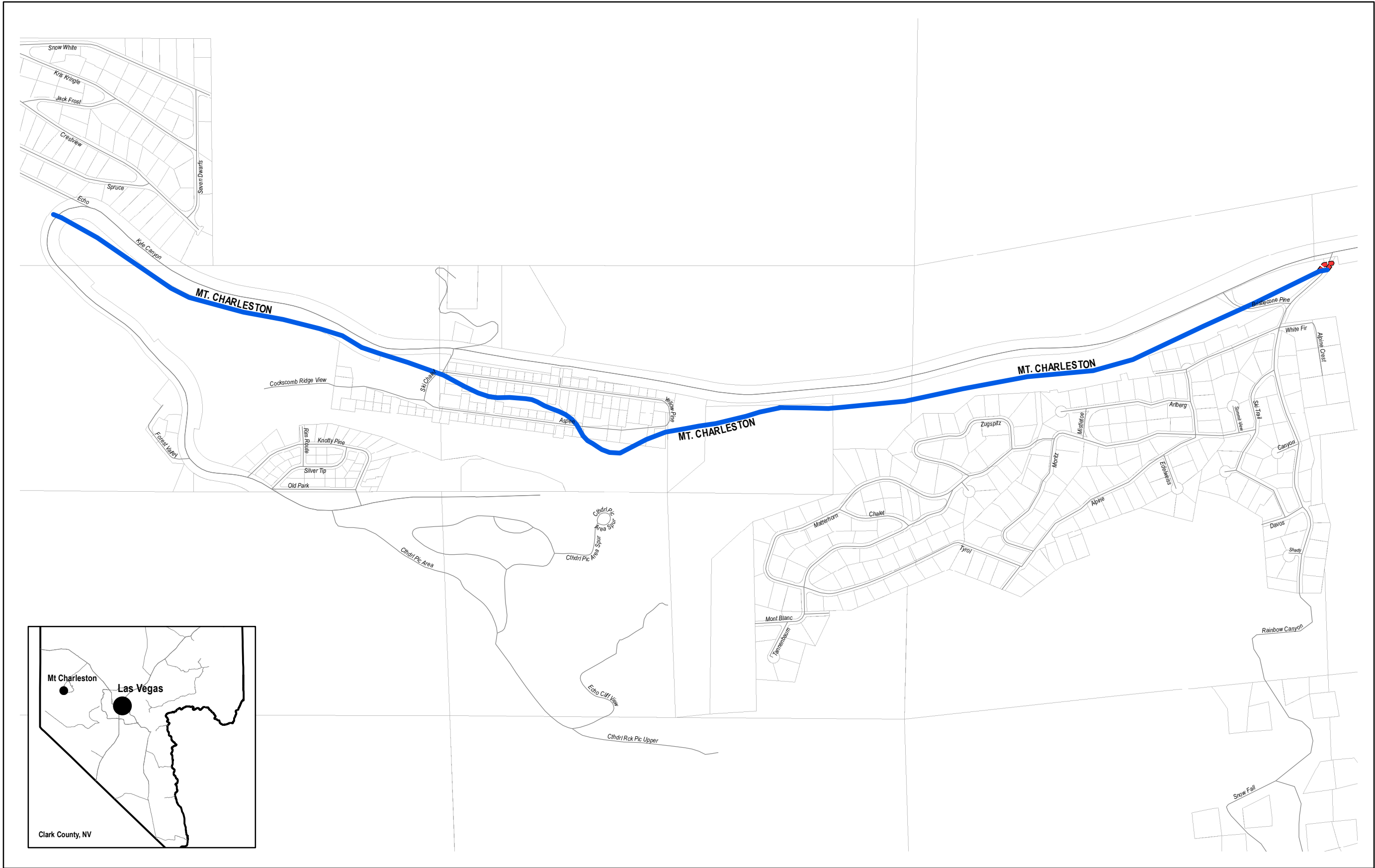
FLOOD INSURANCE (FIRM) INFORMATION:  
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FLOOD CONTROL DISTRICT FACILITIES  
SHOULD BE MADE TO THE DISTRICT  
OFFICE AT 600 S. GRAND CENTRAL PKWY,  
SUITE 300, LAS VEGAS, NEVADA 89106-4511.

May 2019





# TEN-YEAR CONSTRUCTION PROGRAM MT. CHARLESTON (OUTLYING) PLANNING AREA



**Legend**

**Conveyances**

**STATUS**

- Completed
- Under Construction
- Proposed
- Ten Year - 1st Five
- Ten Year - 2nd Five

**Detention Basins**

**STATUS**

- Completed
- Under Construction
- Proposed
- Ten Year - 1st Five
- Ten Year - 2nd Five

**100 Year Flood Zones**

- 100-Year Flood Zone



1 inch = 0.11 miles

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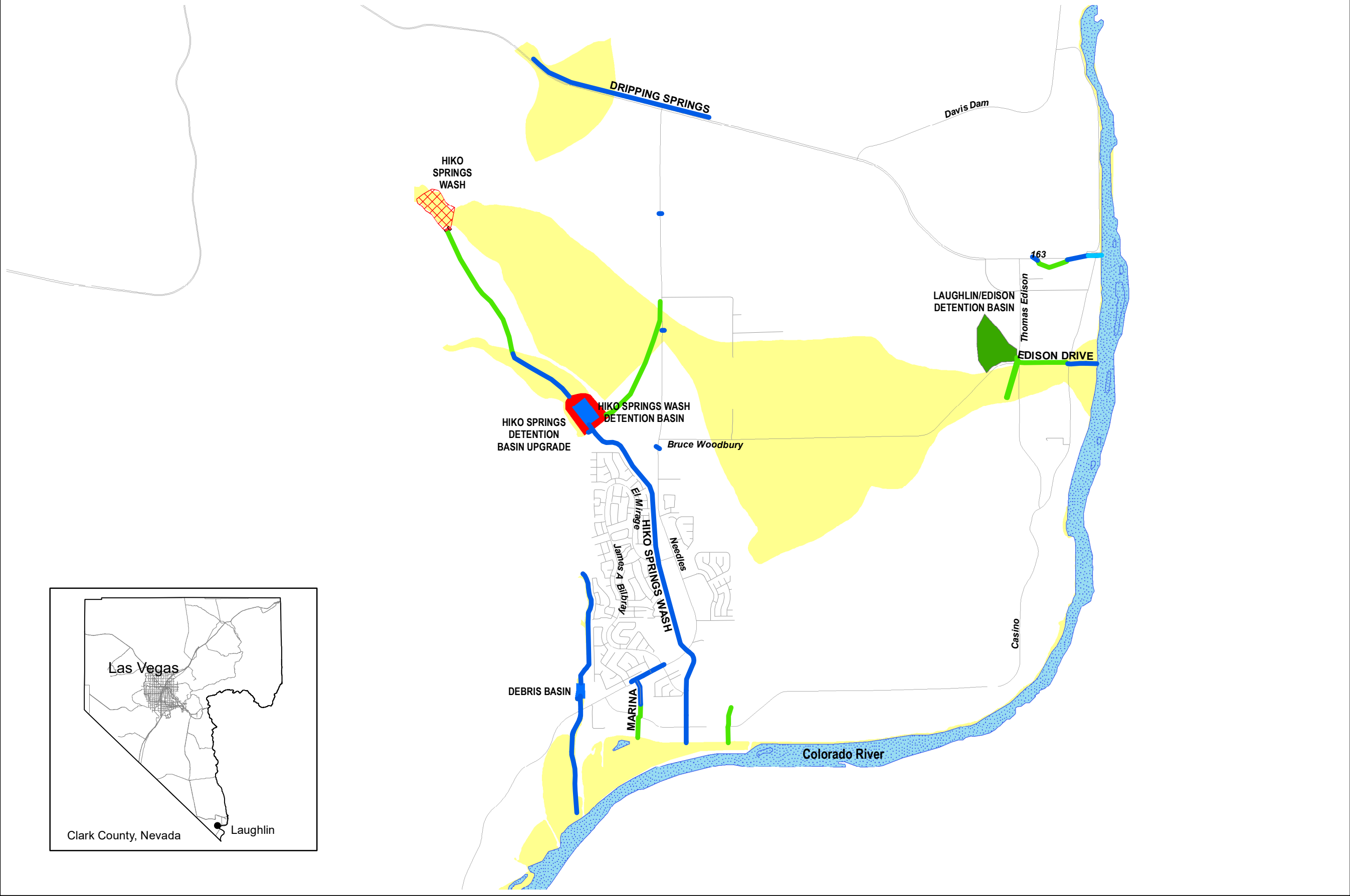
DATA SOURCES:  
CLARK COUNTY REGIONAL FLOOD  
CONTROL DISTRICT  
CLARK COUNTY GISMO  
FEMA

FLOOD INSURANCE (FIRM) INFORMATION:  
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FLOOD CONTROL DISTRICT FACILITIES  
SHOULD BE MADE TO THE DISTRICT  
OFFICE AT 600 S. GRAND CENTRAL PKWY,  
SUITE 300, LAS VEGAS, NEVADA 89106-4511.

May 2019



# TEN-YEAR CONSTRUCTION PROGRAM LAUGHLIN PLANNING AREA



**LEGEND**

**Conveyances**

**STATUS**

- Completed
- Under Construction
- EFS
- Proposed
- Ten Year - 1st Five
- Ten Year - 2nd Five

**Detention Basins**

**STATUS**

- Completed
- Under Construction
- EFS
- Proposed
- Ten Year - 1st Five
- Ten Year - 2nd Five

**100 Year Flood Zones**

- 100-Year Flood Zone



1 inch = 0.7 miles

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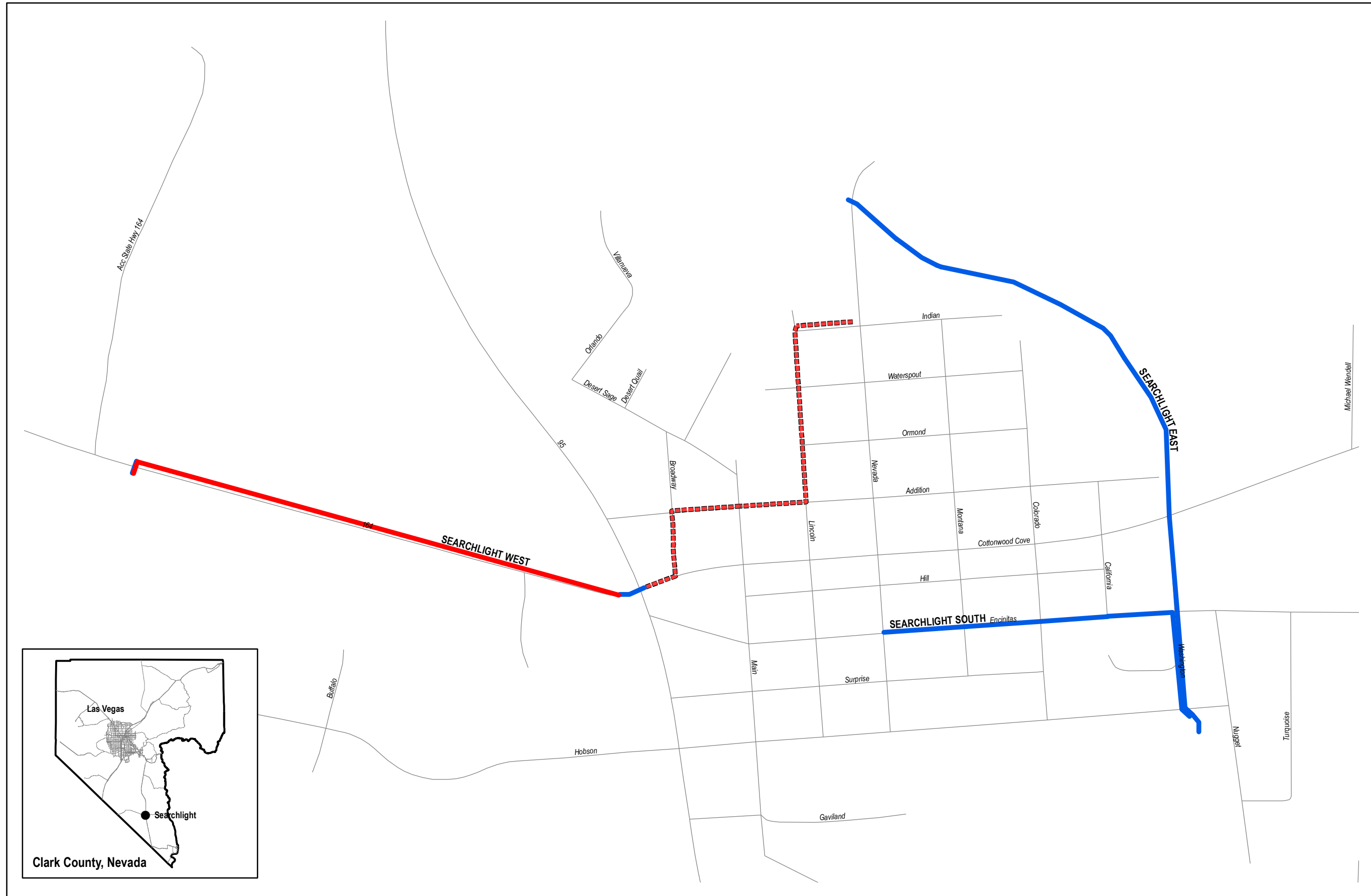
DATA SOURCES:  
CLARK COUNTY REGIONAL FLOOD  
CONTROL DISTRICT  
CLARK COUNTY GISMO  
FEMA

FLOOD INSURANCE (FIRM) INFORMATION:  
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OFFICE AT 600 S. GRAND CENTRAL PKWY,  
SUITE 300, LAS VEGAS, NEVADA 89106-4511.

May 2019



## TEN-YEAR CONSTRUCTION PROGRAM SEARCHLIGHT PLANNING AREA



### LEGEND

## Conveyances

## STATUS

- Completed
- Under Construction
- EFS
- Proposed
- Ten Year - 1st Five
- ■ ■ ■ ■ Ten Year - 2nd Five

## Detention Basins

## STATUS

- |   |                     |
|---|---------------------|
|  | Completed           |
|  | Under Construction  |
|  | EFS                 |
|  | Proposed            |
|  | Ten Year - 1st Five |
|  | Ten Year - 2nd Five |

### 100 Year Flood Zones

-  100-Year Flood Zone



1 inch = 0.1 miles

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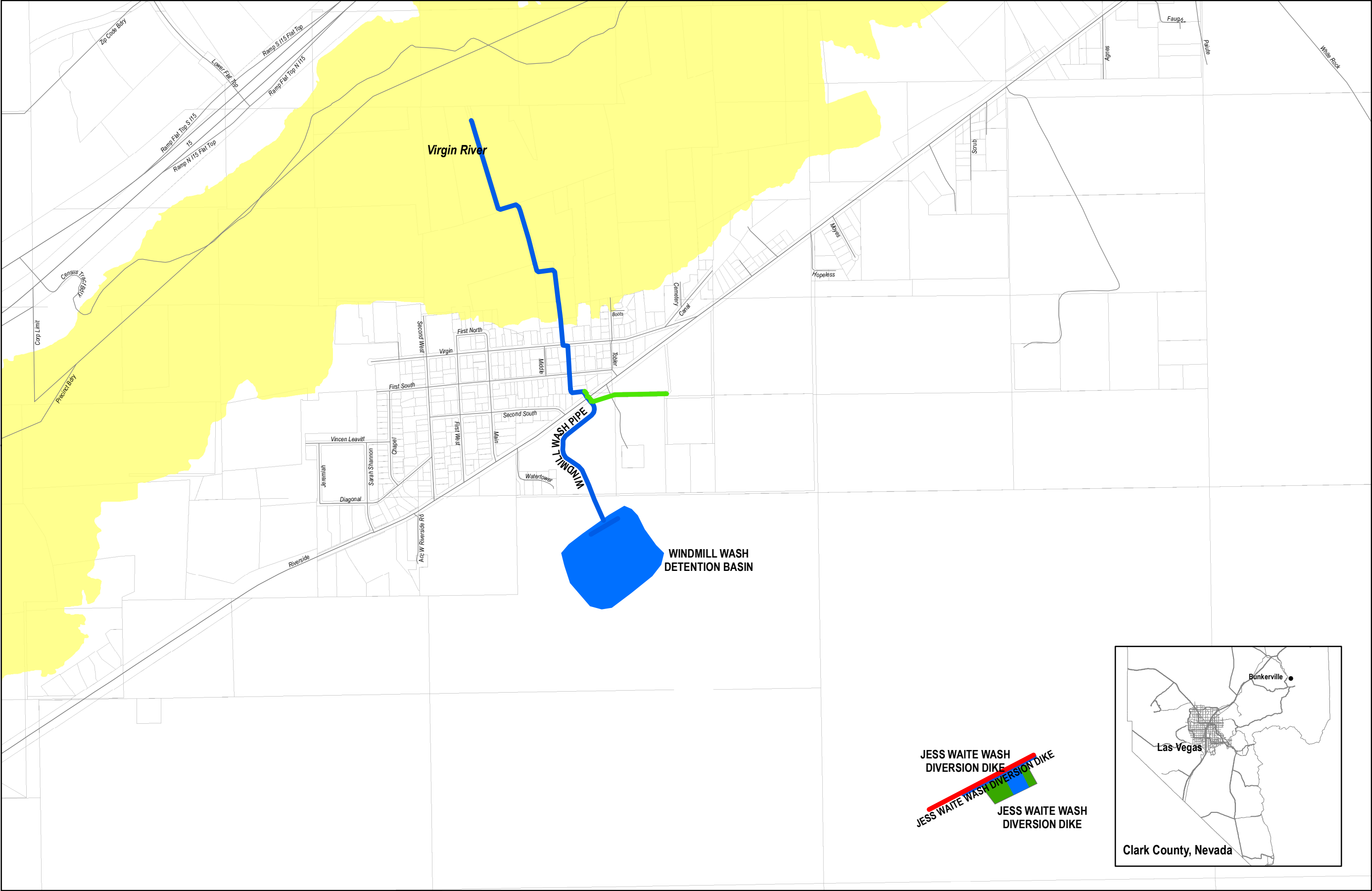
DATA SOURCES:  
CLARK COUNTY REGIONAL FLOOD  
CONTROL DISTRICT  
CLARK COUNTY GISMO  
FEMA

**FLOOD INSURANCE (FIRM) INFORMATION:  
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SHOULD BE MADE TO THE DISTRICT  
OFFICE AT 600 S. GRAND CENTRAL PKWY,  
SUITE 300, LAS VEGAS, NEVADA 89106-4511.**

May 2019

REGIONAL FLOOD  
CONTROL DISTRICT

# TEN-YEAR CONSTRUCTION PROGRAM BUNKERVILLE PLANNING AREA



**Legend**

**Conveyances**

**STATUS**

- Completed
- Under Construction
- Proposed
- Ten Year - 1st Five
- Ten Year - 2nd Five

**Detention Basins**

**STATUS**

- Completed
- Under Construction
- Proposed
- Ten Year - 1st Five
- Ten Year - 2nd Five

**100 Year Flood Zones**

- 100-Year Flood Zone



1 inch = 0.24 miles

THIS MAP IS FOR GRAPHIC USE ONLY  
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DATA SOURCES:  
CLARK COUNTY REGIONAL FLOOD  
CONTROL DISTRICT  
CLARK COUNTY GISMO  
FEMA

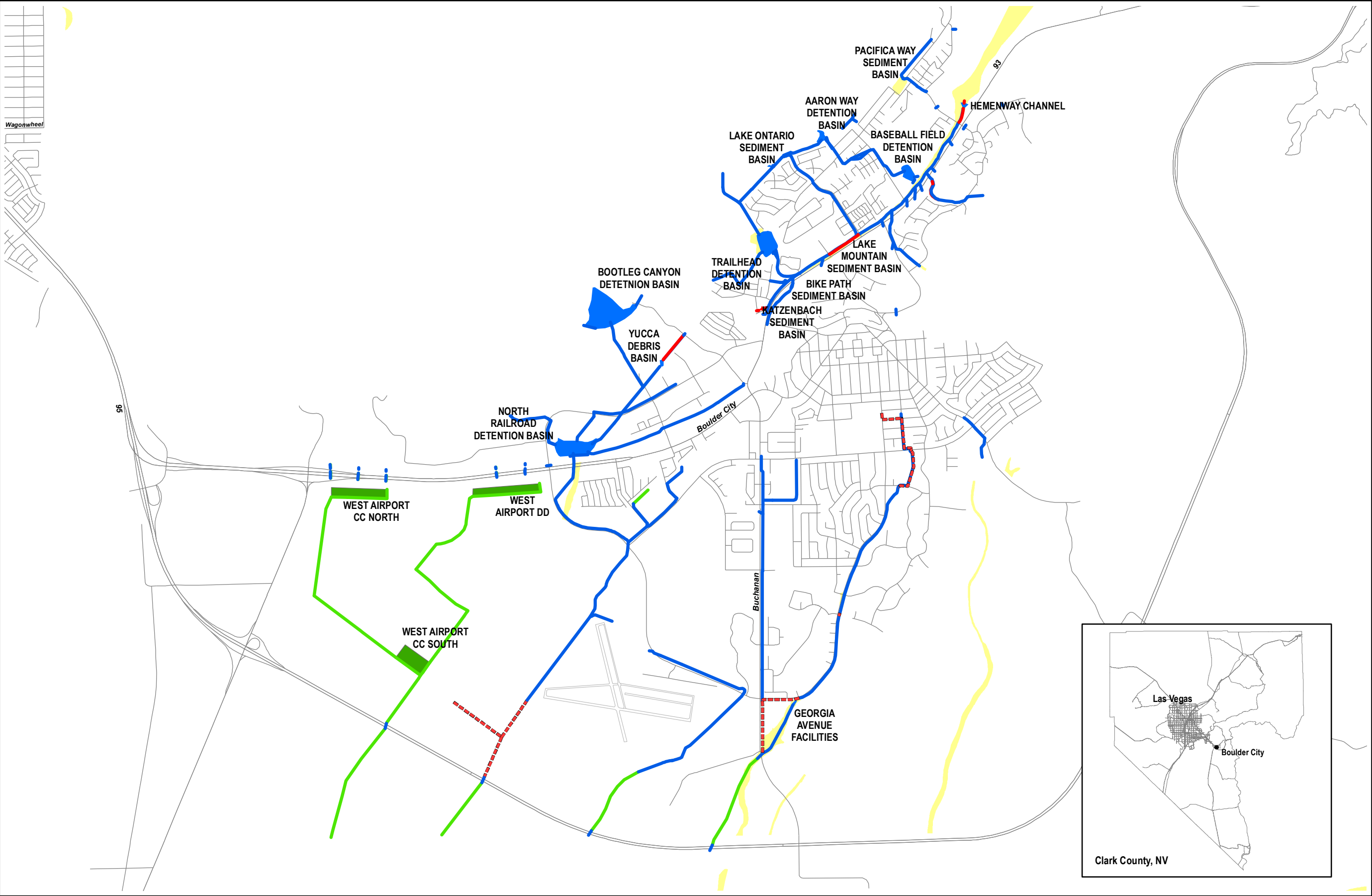
FLOOD INSURANCE (FIRM) INFORMATION:  
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EFFECTIVE FIRM. ALL INFORMATION  
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FLOOD CONTROL DISTRICT FACILITIES  
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OFFICE AT 600 S. GRAND CENTRAL PKWY,  
SUITE 300, LAS VEGAS, NEVADA 89106-4511.

May 2019





# TEN-YEAR CONSTRUCTION PROGRAM BOULDER CITY PLANNING AREA



**LEGEND**

**Conveyances**

**STATUS**

- Completed
- Under Construction
- EFS
- Proposed
- Ten Year - 1st Five
- Ten Year - 2nd Five

**Detention Basins**

**STATUS**

- Completed
- Under Construction
- EFS
- Proposed
- Ten Year - 1st Five
- Ten Year - 2nd Five

**100 Year Flood Zones**

- 100-Year Flood Zone

1 inch = 0.6 miles

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HEREON.

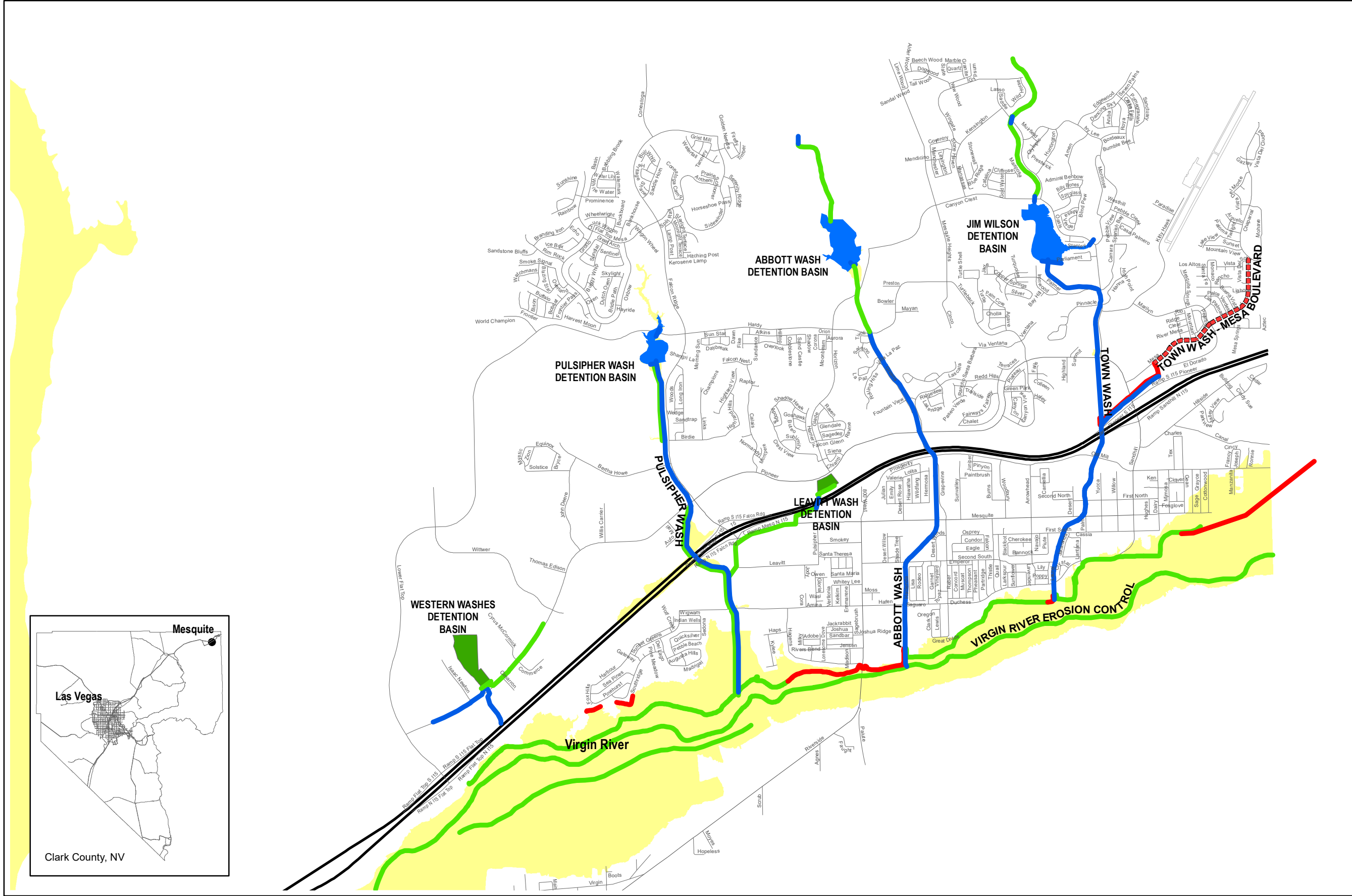
DATA SOURCES:  
CLARK COUNTY REGIONAL FLOOD  
CONTROL DISTRICT  
CLARK COUNTY GISMO  
FEMA

FLOOD INSURANCE (FIRM) INFORMATION:  
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STATUS OF CLARK COUNTY REGIONAL  
FLOOD CONTROL DISTRICT FACILITIES  
SHOULD BE MADE TO THE DISTRICT  
OFFICE AT 600 S. GRAND CENTRAL PKWY,  
SUITE 300, LAS VEGAS, NEVADA 89106-4511.

May 2019



# TEN-YEAR CONSTRUCTION PROGRAM MESQUITE PLANNING AREA



**LEGEND**

**Conveyances**

**STATUS**

Completed

Under Construction

EFS

Proposed

Ten Year - 1st Five

Ten Year - 2nd Five

**Detention Basins**

**STATUS**

Completed

Under Construction

EFS

Proposed

Ten Year - 1st Five

Ten Year - 2nd Five

**100 Year Flood Zones**

100-Year Flood Zone



1 inch = 0.6 miles

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HEREON.

DATA SOURCES:  
CLARK COUNTY REGIONAL FLOOD  
CONTROL DISTRICT  
CLARK COUNTY GISMO  
FEMA

FLOOD INSURANCE (FIRM) INFORMATION:  
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May 2019

