

CITY OF SAN ANTONIO CITY MANAGER'S OFFICE

TO: 2022 Drainage & Flood Control Community Bond Committee

FROM: Erik Walsh, City Manager

COPY: Rod Sanchez, Assistant City Manager; Executive Leadership Team; Razi Hosseini, Director of Public Works (PWD), Luis Maltos, Assistant Director PWD, Anthony Chukwudolue, Deputy Director PWD, Christie Chapman, Assistant Director, Nefi Garza, Assistant Director PWD

DATE: November 2, 2021

SUBJECT: 2022 BOND DRAINAGE AND FLOOD CONTROL BOND COMMITTEE REQUESTED INFORMATION

This memo addresses requests for information from Committee members from the Drainage & Flood Control 2022 Community Bond Committee meeting held on October 28, 2021.

Committee Member Requests

Project Scoring: Committee members requested the scoring of the complete list of the drainage and flood control projects considered for the 2022 – 2027 Bond Program. Attachment A lists all the recommended drainage and flood control projects and their respective scores for 2022 Bond.

Scoring Criteria: Committee members David Erik Waters (District 1) and Rose Araujo-Iracheta (District 5) requested additional metrics, or quantitative and qualitative data, to help with understanding the scoring for drainage bond projects based on equity, connectivity and health and safety. Attachment B is an overview document that provides definition of the three project classifications (i.e., district, regional and citywide projects) and details the evaluation criteria staff used to score projects.

Additional Considered Drainage Projects: Committee members requested a list of scored projects that were not recommended as 2022 Bond drainage and flood control projects for funding consideration. Attachment C is a list of additional scored drainage projects reviewed but not recommended as 2022 Bond drainage flood control projects.

Prior Resident Requests: District 6 Committee member requested list of residents requested 2017 Bond drainage projects. Attachment D is a list of unfunded drainage projects requested from residents during 2017 Bond Committee process.

Connectivity to Greenway Trails: Committee members wanted to know how many drainage & flood control projects will include greenway trails or a connection to trails. The proposed 2022 Bond drainage projects do not include greenway trails or connections to trailways.

Flood Improvements & Green Infrastructure: Committee member Bianca Maldonado (District 7) asked staff to delineate from the project list which properties will be removed from localized flooding versus regional flooding, which projects could include green infrastructure as well as require a Letter of

Map Revision (LOMR) and what projects are located within a TIRZ. Summarized in Attachment E is the requested clarification for the applicable projects.

Public Art For Drainage Projects: Committee members had questions about the process for adding art to drainage & flood control projects. Upon approval of the Bond Program, the Department of Arts & Culture’s Public Art team begins an extensive Community Engagement process involving residents, stakeholders, other City departments including Public Works, and the San Antonio Arts Commission to determine potential opportunities for art within the Bond Propositions that include a percent for art allocation, including Drainage & Flood Control. The final Public Art Program Plan is based on feedback collected through the Community Engagement Process and other factors, including feasibility, connectivity, and equity. Examples of prior Public Art installations at Drainage & Flood Control Bond Projects include Spine way Bloom at McAllister Park, and Aguas Onduladas at Elmendorf.

Drainage Improvements Linked to Street Projects: Committee member asked how many projects have street improvements built-in? Summarized below is the list of the three-projects proposed for 2022 Bond Streets, Bridges and Sidewalks and Drainage funding.

District	Project	Proposed 2022 Bond Street Funding	Proposed 2022 Bond Drainage Funding
8	Gardendale (Wurzbach to Blumel)	\$ 3,000,000	\$ 3,360,000
9	Evans Road Improvements (Encino Rio to Bulverde Rd)	\$ 19,500,000	\$ 10,000,000
4, 6	Marbach Road Area Street Improvement (IH-410 to Horal)	\$ 15,000,000	\$ 15,000,000

New Development and Drainage Concerns: Committee member Rose Araujo-Iracheta (District 5) vocalized concerned about development in her area and wanted to know more about building codes to prevent flood risks. The City of San Antonio is a “No Adverse Impact” community. The City’s Drainage Manual and Floodplain ordinances, which are part of the Unified Development Code (UDC), are written to prevent any new development from adversely impacting adjacent properties or infrastructure. By doing a thorough technical review during the platting and permitting process, the City ensures that the engineer of record and/or the developer can prove through detailed engineering analyses that the new development will not create an adverse impact. There are several areas around the City where the developer must mitigate their developed runoff/drainage through providing detention because it has been found through numerous 311 calls that those specific areas are already experiencing drainage issues. If a developer/owner plans to develop in those areas, detention is required, the fee in lieu of detention is not an option. Attachment F summarizes the Mandatory Detention Areas.

FEMA/ Community Ratings System: District 7 Committee members requested information for residents about flood insurance and any cost savings through the Federal Community Ratings System (CRS). The Community Ratings System (CRS) program is a point-based system (scale of 1-10). The City of San Antonio applied for admission into FEMA’s CRS program in July 2021 and is currently in the review process. This process can take FEMA about six months to review the City’s codes and floodplain ordinances, to verify that the City is a “higher standard” community. By higher standard, that means San Antonio has provisions within its floodplain ordinance that are higher than FEMA’s minimum standards. A lower rating means the chance of higher savings on flood insurance for residents. The Public Works Department expects to have the City’s rating announcement in late December 2021 and a better understanding of what cost savings for flood insurance would be available to San Antonio residents.

Any Additional Funding Sources for Drainage Projects: Committee members requested a list of the other funding sources being leveraged toward the proposed 2022 Bond Drainage and Flood Control

projects. All committee members in attendance received a binder which included Attachment F in the notes section of the binder. Attachment G lists the recommended 2022 Drainage and Flood Control projects by district and recommended funding amount, including a column to denote the amount and funding source for other committed or potential funding being leveraged.

Project Name	Council District	October 19, 2021 Staff Recommendation	Other/Potential Funding Sources
Barbara Drive Phase 3 (Dellwood Drive and Shadywood Lane to Oblate Drive and Barbara Drive)	1	\$ 5,430,000	\$8,600,000 FY 2022 Storm Water Regional
Elmira (Cameron St. from Cadwallader to Santa Rosa St.)	1	\$ 6,050,000	\$6,050,000 FY 2022 Storm Water Regional
Brookside Outfall (Esma Phase 2) (Lebanon Street to San Antonio River)	3	\$ 4,150,000	\$4,150,000 FY 2022 Storm Water Regional
Valley Hi Area Drainage (Ray Ellison from Medina Base Road to Old Valley Hi Dr.)	4	\$ 5,700,000	\$5,700,000 FY 2022 Storm Water Regional
Marbach Road Area Drainage Improvement (IH-410 to Horal)	4, 6	\$15,800,000	\$15,000,000 2022 Street Bond
Lower French Creek Improvements (Low Bid Ln to Leon Creek)	6, 7	\$ 6,500,000	\$6,500,000 FY 2022 Storm Water Regional
¹ Seeling Drainage Improvements Phase 4 (Lowery Drive to St. Cloud and Placid from Sage to Pardo)	7	\$ 7,880,000	\$6,850,000 FY 2022 Storm Water Regional
Gardendale (Wurzbach to Bluemel)	8	\$ 3,360,000	\$3,000,0000 2022 Street Bond
Evans Rd Drainage Improvements (Encino Rio to Bulverde Rd)	9	\$10,000,000	\$19,500,000 2022 Street Bond

¹Seeling Drainage Improvements project is also leveraging previously committed funding totaling \$10 million (\$4 Million from Bexar County and \$6 Million from Prior Storm Water Regional funds) for a total amount of \$24.73 million.



SUMMARY	
Maximum	71
Average	57
Minimum	50

Item No.	Project Name & Project Limits	Council District	Project Scope	Connectivity (Max 20 Points)	Public Health & Safety (Max 20 Points)	Resiliency (Max 20 Points)	Equity (Max 20 Points)	Funding Commitment (Max 10 Points)	Project Feasibility (Max 10 Points)	Total Score (100 Points Possible)
1	Barbara Drive Phase 3 (Dellwood Drive and Shadywood Lane to Oblate Drive and Barbara Drive)	1	(2017 Bond Continuation) Proposed upgrades to undersized existing storm drain system and associated reconstruction of the street and curb. Proposed improvements will reduce the 100-year floodplain.	7	8	14	16	8	10	63
2	Elmira (Cameron Street from Cadwallader to Santa Rosa St.)	1	(Hazard Mitigation Plan) Installation of an underground bypass storm drain system, proposed upgrades to undersized existing storm drain system and associated reconstruction of the street, curbs, and driveways.	9	13	12	18	3	10	65
3	Peggy Drive Area Drainage Improvements (Eastgate Subdivision)	2	Regrading of existing earthen channel and installation of an underground storm drain system and associated reconstruction of streets with curbs, sidewalks, and driveway approaches.	8	6	11	16	5	10	56
4	Brookside Outfall (Esma Phase 2) Lebanon Street to San Antonio River)	3	(2017 Bond Continuation & Hazard Mitigation Plan) Channel improvements, culvert replacements, and associated reconstruction of streets with curbs and driveway approaches.	8	11	13	14	5	10	61
5	S. Pine Phase 2 (Greer St, Vanderbilt St, S. Palmetto St, and Piedmont Ave)	3	(2017 Bond Continuation) Installation of an underground storm drain system and reconstruction of the street, curb, driveways and sidewalks.	7	11	11	18	5	10	62
6	Valley Hi Area Drainage (Ray Ellison from Medina Base Road to Old Valley Hi Drive)	4	Installation of an underground storm drain system, upgrades to two low water crossing culverts, and reconstruction of existing roadside earthen ditches, as well as reconstruction of the streets and driveways.	8	6	11	16	3	10	54
7	Marbach Road Area Drainage Improvement (IH-410 to Horal)	4,6	(Hazard Mitigation Plan) Proposed upgrades to undersized existing storm drain system, construction of medians and associated reconstruction of the street, curb, driveways and sidewalks.	11	6	11	16	0	10	54
8	Wilcox Ave Street & Drainage Improvements (Quintana to Dead End)	5	Installation of an underground storm drain system and reconstruction of the street, curb, driveways and sidewalks.	7	8	12	20	0	10	57
9	Cumberland Area Drainage Improvement (Nogalitos to Frio City Road)	5	Project will reconstruct Cumberland from Nogalitos to Frio City Road and install an underground drainage system including curbs, sidewalks and driveway approaches where necessary.	6	11	11	20	0	10	58
10	Lower French Creek Improvements (Low Bid Lane to Leon Creek)	6	(Hazard Mitigation Plan) Upgrade low water crossings, driveway culverts and channel improvements to increase conveyance for French Creek.	8	6	13	14	3	10	54

Attachment A

Item No.	Project Name & Project Limits	Council District	Project Scope	Connectivity (Max 20 Points)	Public Health & Safety (Max 20 Points)	Resiliency (Max 20 Points)	Equity (Max 20 Points)	Funding Commitment (Max 10 Points)	Project Feasibility (Max 10 Points)	Total Score (100 Points Possible)
11	Seeling Drainage Improvements Phase 4 (Lowery Drive to St. Cloud and Placid from Sage to Pardo)	7	(2017 Bond Continuation & Hazard Mitigation Plan) Installation of an underground storm drain system and associated street work.	11	11	13	16	10	10	71
12	Broadview & Oakwood Drainage Improvements Phase 1 (Broadview and W. Quill Drive)	7	Proposed upgrades and bypass to undersized existing storm drain system and associated reconstruction of the street and curbs on W. Broadview Drive from Oakwood Drive to W. Quill Drive; and W. Quill Drive from W. Broadview Drive to the Oakwood Drive Outfall.	6	11	11	16	0	10	54
13	Gardendale (Wurzbach to Bluemel)	8	Installation of an underground storm drain system and reconstruction of the street, curb, driveways and sidewalks.	6	11	11	14	5	10	57
14	Southwell North Area Drainage Improvement (Southwell Road and Melba)	8	(Hazard Mitigation Plan) Proposed upgrades to undersized existing storm drain system and construction of an earthen channel outfall to accept runoff, as well as reconstruction of street and driveways.	8	11	11	8	3	10	51
15	Budding Culvert Replacement (North of Grape Blossom)	9	Upgrade low water crossing for channel conveyance and erosion control.	7	11	12	8	3	10	51
16	Evans Rd Drainage Improvements (Encino Rio to Bulverde Rd)	9	Proposed upgrades to undersized existing storm drain system and associated reconstruction of the street and curb.	7	13	12	8	0	10	50
17	Kentwood Manor Phase 2 Drainage Improvements (Copper Hill, Parkstone Boulevard, Mt. Everest)	9	Project will construct an underground storm water system and associated curbs and sidewalks to alleviate localized flooding and improve stormwater conveyance.	3	11	13	8	5	10	50
18	Eisenhower Northwood Devonshire Area Drainage Ph IA (Pike from Albin to Brookside)	10	(2017 Bond Continuation & Hazard Mitigation Plan) Channel improvements and construction of a bypass channel.	11	11	11	8	5	10	56

2022 Bond Program Project Definition

Proposed projects for the 2022 Bond Program were classified into three categories:

District	Project serving or supporting primarily the surrounding district community/neighborhoods.
Citywide	Project that is either a city-owned facility, open space or improvement supporting all San Antonio residents <i>and</i> visitors. Examples include cultural centers, visitor attractions, health and wellness, and public safety facilities.
Regional	Project is located within one of the 13 adopted SA Tomorrow Regional Centers.

Regional Centers

The SA Tomorrow 13 Regional Centers are the employment and activity nodes of the City. Each of these centers are either an activity center, logistic/service, or special purpose center. Summarized below and attached is a map of the SA Tomorrow Regional Centers.

- Central Business District (Downtown)
- Medical Center
- Midtown
- Brooks
- Texas A&M University (San Antonio)/Toyota
- UTSA
- Stone Oak
- Highway 151 and Loop 1604
- Greater Airport Area
- Northeast I-35 and Loop 410
- Rolling Oaks
- Fort Sam Houston
- JBSA-Lackland/Port San Antonio

Information source: <https://sacompplan.com/regional-centers/>

Guiding Principles

- 1. Connectivity** – Projects will enhance access to opportunities and align with City’s adopted plans.
- 2. Public Health and Safety** – Projects will enhance public health, wellness, safe connectivity to community destinations and promote sustainable green infrastructure.
- 3. Resiliency** – Projects will improve existing conditions to protect, adapt and respond to natural and human-made hazards.
- 4. Equity** – Projects will support infrastructure improvements within communities of color and low-income.
- 5. Council Input**

2022 Bond Program Project Selection

City Management and Public Works staff evaluated and prioritized projects that will improve connectivity, enhance multimodal options, improve community health, safety and the environment, increase mobility and address infrastructure needs to improve City's resiliency.

Project Eligibility

Before scoring the projects, staff reviewed and prioritized project requests based on the Council Districts' feedback and eligibility criteria summarized below for the respective project types:

Streets

- Continuation of Multi-Phase Project
- Leveraged Committed Funding
- Provides safe access (resiliency)
- Provides multimodal mobility opportunities (sidewalks, bike lanes, transit)
- Reduces traffic congestion (improving air quality)

Drainage

- Hazard Mitigation Plan Project
- Continuation of Multi-Phase Project
- Leveraged Committed Funding (Storm Water Regional Funded Project)
- Provides safe access and reduces flood risks (resiliency)

Parks

- Aligns with San Antonio Park System Plan
- Improves Community Health, Safety and Resiliency
- Continuation of Multi-Phase Project
- Leveraged Committed Funding
- Provides multimodal mobility opportunities (trail connectivity and enhance park access)

Facilities

- City-Owned Facility
- Continuation of Multi-Phase Project
- Leveraged Committed Funding
- Improves Community Health, Safety and Resiliency
- Client Department Priorities

Project Evaluation Criteria (Max Points 100)

I. Connectivity - Max Points 20

Ranked Each Criteria 0-5 points

- A. Improves accessibility to jobs, educational facilities, and community services.
- B. Aligns with city's adopted plans.
- C. Either eliminates gaps in sidewalks or improves ADA access to facilities.
- D. Provides other mobility options.

II. Public Health & Safety – Max Points 20

Rank Each Criteria 0-5 points

- A. Improves accessibility to healthcare and wellness facilities.
- B. Provides opportunity and/or improved access to parks, open spaces.
- C. Improves air quality.
- D. Includes green infrastructure such as LID, LEED standards.

III. Resiliency – Max Points 20

Rank Each Criteria 0-5 points

- A. Supports the continuation of City and business operations, emergency response service, and citizen daily activities.
- B. Improves existing infrastructure.
- C. Reduces flood risk.
- D. Provides mobility options.

IV. Equity (Information Source: City of San Antonio Equity Atlas) – Max Points 20

A. Race

If percent people of color between 20.77% and 72.04%	2 pts
If percent people of color > 72.04%	4 pts

B. Income

If the median household income is between \$55,543 and \$148,654	2 pts
If the median household income is < \$55,543	4 pts

C. Language

If percent that speak other language at home – speak English less than
 “Very well” is 0.82% and 9.7% 2 pts

If percent that speak other language at home – speak English less than
 “Very well” is > 9.7% 4 pts

D. Education

If percent education less than High School Graduate or Equivalent is
 Between 0.33% and 10.13% 2 pts

If percent education less than High School Graduate or Equivalent is
 > 10.13% 4 pts

E. Redlining

No grade 0 pts
 Grade A and B 2 pts
 Grade C and D 4 pts

V. Funding Commitment - Max Points 10

Ranked Each Criteria 0-5 points

- A. Leverages funding from outside agency.
- B. Provides continuation of a previously funded project.

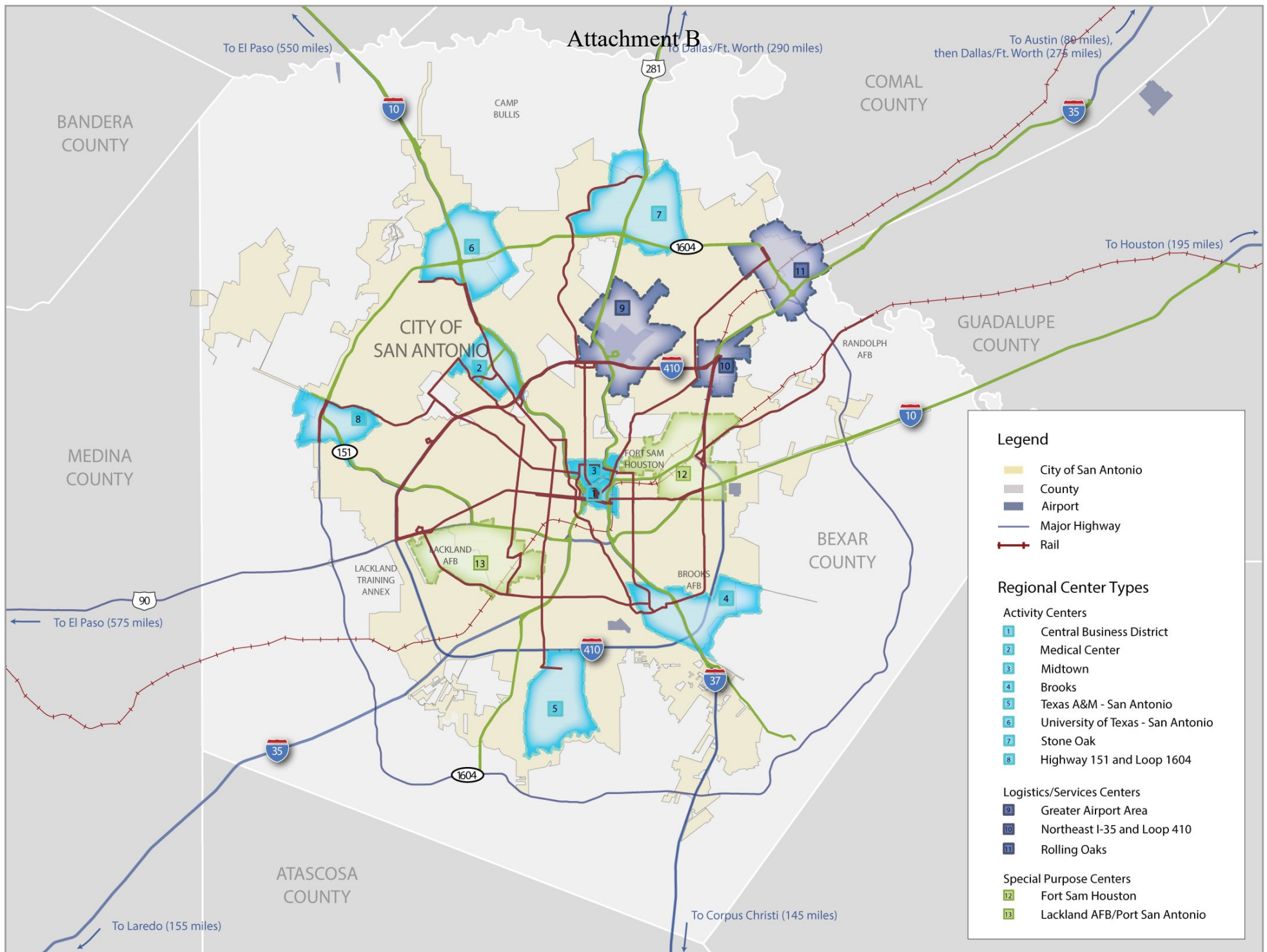
VI. Project Feasibility - Max Points 10

Rank 0-10 points

- A. Based on professional experience, rank the feasibility of the project (i.e. are there challenges). Consider ROW, environmental impact, permitting requirements, outside agency restrictions, ability to deliver on time, public support, etc.

NOTES:

1. Projects were evaluated and prioritized within the respective Propositions and Council Districts.



Regional Center Types and Primary Transit Corridors



SUMMARY	
Maximum	50
Average	46
Minimum	38



Item No.	Project Name & Project Limits	Council District	Project Scope	Connectivity (Max 20 Points)	Public Health & Safety (Max 20 Points)	Resiliency (Max 20 Points)	Equity (Max 20 Points)	Funding Commitment (Max 10 Points)	Project Feasibility (Max 10 Points)	Total Score (100 Points Possible)
1	Neer	1	Proposed improvements include an improved underground drainage system with new curb inlets at each intersection.	6	11	11	18	0	2	48
2	Olympia Drive PH II Drainage Project (Hazard Mitigation)	1	The proposed system will consist of the following, upgrade the existing inlet located east of Catalina Ave. dead end, construct new inlets at San Angelo, Catalina Ave., and El Monte Blvd., the system will be collected by an 8'x6' RCB that will connect to the existing Olympia Phase I system. The Olympia Phase I and II systems were checked and will be able to pass the 25-yr event, although based on the CoSA criteria and total drainage area contributing to the system, it should be designed for the 100-yr event. A variance will be needed. Associated street reconstruction to include curbs, sidewalks, and driveway approaches will need to be incorporated into the project.	8	6	11	18	5	2	50
3	Amity Drainage Improvements (Hazard Mitigation)	2	To mitigate flooding and ponding, an underground stormwater drainage system will be installed along Ancel Rd. and Amity Rd.	8	11	11	16	0	1	47
4	Fratt Rd Outfall (Rittiman: 700' west of Fratt to Fratt) (Hazard Mitigation)	2	Fratt Road has been overlaid, preventing runoff from flowing south. This project will extend the underground system on Fratt Road north to Village Lawn. Phase 1 will provide a proper outfall for subsequent phases.	13	6	11	16	0	2	48
5	Alameda-Homesite Area Drainage Improvement/ E. Chavaneaux Rd.-Roosevelt intersection to 1100 LF West; Santa Rita & Sanez-from Roosevelt to Elko; Elko-Santa Rita to Sanez; Channel-E. Chavaneaux to Sanez; drainage R.O.W- I-410 Access to E. Chavaneaux	3	Construct storm drain system and reconstruct roadway to mitigate localized property flooding	3	6	11	16	0	2	38
6	Five Palms Area Drainage Improvement - Phase 1 / Century Drive and Royalgate Dr. from Century Dr. to W. Military Dr.	4	Construct storm drain system and reconstruct roadway to mitigate intersection ponding and localized property flooding	3	6	11	16	5	2	43
7	New Laredo Hwy Middle / Pitluk to Leon Creek	4	Construct storm drain system and reconstruct roadway to mitigate localized property flooding and localized roadway drainage issues.	9	8	12	16	0	2	47
8	W. Baetz @ Moursund (Hazard Mitigation)	4	This project proposes to construct an underground drainage system comprising curb inlets and 36" and 48" RCP to address localized flooding problems. The project also includes reconstruction of the street with curbs, sidewalks and driveway approaches.	12	6	11	16	0	2	47
9	Blue Ridge Street Improvements Phase I	5	he proposed system contains additional inlets to appropriately capture the overland runoff and direct flow into the Culebra/Martin Channel. Also, channel upsizing and larger box culverts underneath street crossings are proposed to convey the 100-year storm event. Street Reconstruction with curb and gutter are proposed. Real Estate acquisition is necessary to upsize the existing channel.	3	11	13	16	3	2	48
10	Frio City Road Outfall - Alt 2 (Hazard Mitigation Plan)	5	This project proposed the replacement of the existing storm drain with a 14' x 6' SBC along Frio City Road with the transition into a 14' x 7' SBC at Pendleton Ave. This proposed SBC would replace the existing SBC along Pendleton and outfall directly into San Pedro Creek. Implementation of this project will remove 87 buildings from local flooding. Associated street reconstruction required includes curbs, pavement and driveway approaches.	11	6	11	20	0	2	50
11	Acapulco and Cesar Chavez	6	The proposed project will fully reconstruct Cesar Chavez from 36th street to Old HWY 90, and construct 100 ft. of inlets and 935 ft. of 36" storm drain that will connect to an existing system under 36th street. The project includes a multi-use path on the south side of the street to connect the pedestrian route from 36th street with Old Highway 90.	3	11	11	20	0	2	47
12	West Military Dr. Area Drainage Improvements / Hwy 151 to Hwy 90	6	Construct bridges, storm drain systems, and reconstruct approx. 2.5 miles of roadway to mitigate localized property flooding and roadway drainage issues.	8	8	12	16	0	1	45

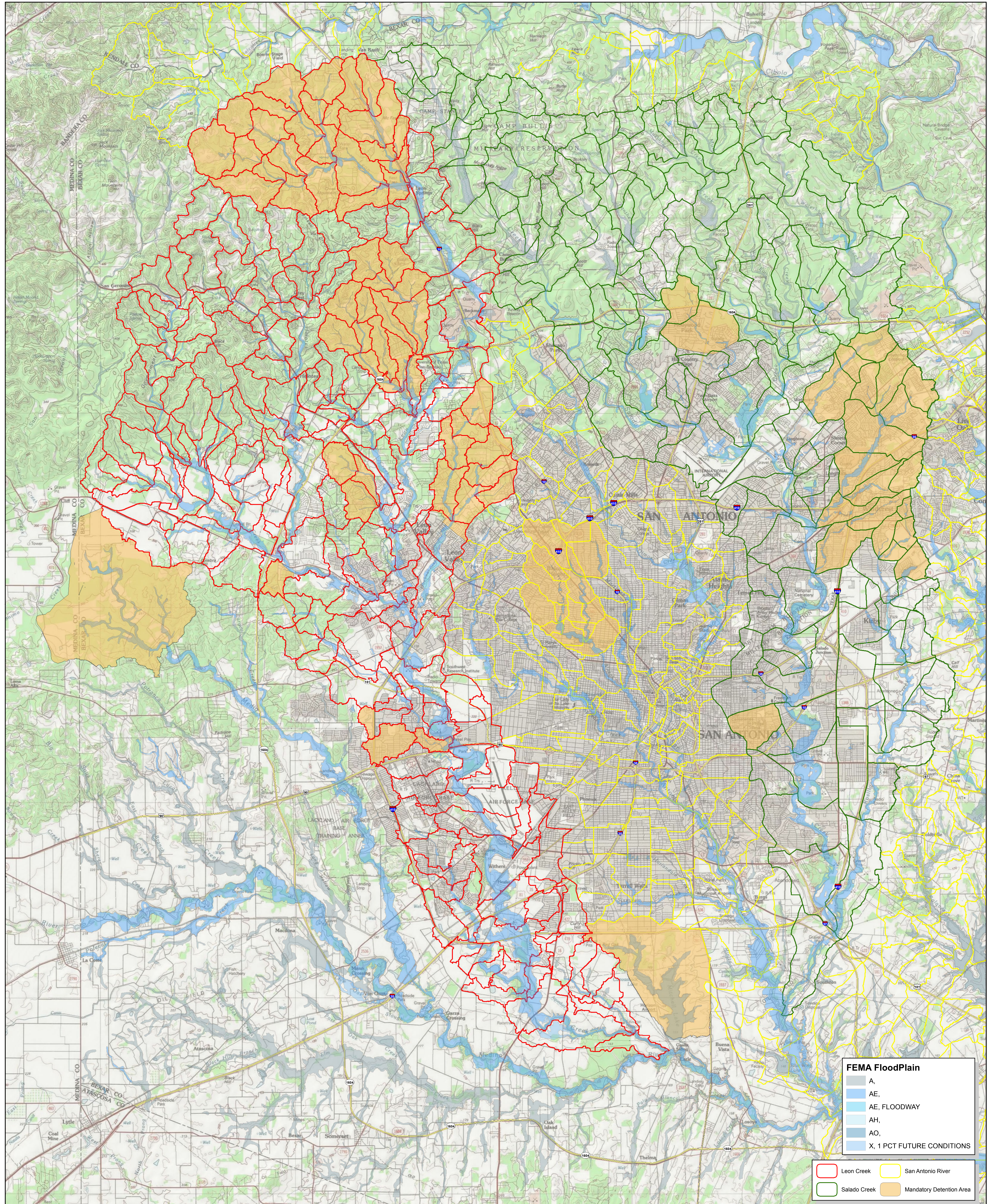
Item No.	Project Name & Project Limits	Council District	Project Scope	Connectivity (Max 20 Points)	Public Health & Safety (Max 20 Points)	Resiliency (Max 20 Points)	Equity (Max 20 Points)	Funding Commitment (Max 10 Points)	Project Feasibility (Max 10 Points)	Total Score (100 Points Possible)
13	Huebner Creek Channelization (LWC #28) / 700 ft. Southwest of Hollyhock to 1300' Northeast of Babcock	7	Construct bridge and re-grade channel to minimize water overtopping roadway	5	10	15	8	5	2	45
14	Laven Dr Area Drainage	7	The proposed project will consist of street reconstruction including curbs, sidewalks & driveways) and installing a concrete channel and 4way inlet in the rear of the lots on the 1300 block of Laven that will outfall to an existing storm sewer system on Laven.	8	11	11	16	0	2	48
15	Donore Pl and Tupelo Lane Drainage Improvement (Hazard Mitigation)	8	The proposed system will convey flow through a box culvert starting 950' from the intersection of Fredericksburg Road and Donore Place going north east along Donore Place. The proposed system will also add curb inlets on Donore Place and Tupelo Lane, which will convey the stormwater from Donore Place and Tupelo Lane to the main outfall. The proposal also consists of reconstruction of Donore Place and construction of curb and gutter along the street to capture street flow appropriately.	11	11	11	10	0	2	45
16	Old Fredericksburg Rd, North of 1604/Btwn 1604 and IH-10	8	Construct storm drain system, eliminate LWC, and reconstruct roadway to mitigate localized flooding	10	10	15	10	0	2	47
17	Patricia Channel Improvement	9	A 311 call reported the channel overtopping in the vicinity of 11851 Belair Drive. This project will improve the existing channel from Patricia Road to Blanco Road and prevent overtopping.	8	8	12	14	0	2	44
18	Judson and Lookout LWC Improvement (Hazard Mitigation)	10	Street flooding at this low water crossing is causing businesses to be land locked. Thei project will upgrade the culverts and the downstream channel.	14	8	14	8	0	2	46
19	Mabelle (Hazard Mitigation)	10	Sheet flow through properties along Mabelle St., Goforth St. and Weidner St. is causing flooding on the lower lots. A stormwater drainage system will be installed.	11	6	11	16	0	2	46
20	N. New Braunfels Drainage Project Phase 1 (Austin Hwy to E. Castano Ave)	CW	Installation of an underground storm drain system, proposed upgrades to undersized existing storm drain system and associated reconstruction of the street. Proposed improvements will reduce the 100-year floodplain	12	11	13	12	0	2	50

Attachment D

Unfunded New Drainage Project Requests						
District	Project Name	Citizen's Name	Summary of Comments/Project Scope	Potential Approach to Address Citizen's Concern	Total Requested Amount	Status
Project Follow Ups & Alternative Funding Approaches						
1	Capitol St. Drainage Project	Patricia Hernandez/Priscilla Pina	Street flooding on W. Kings Highway	Project could potentially be phased into a \$1.9M project that will address issues on W. Kings Highway	\$ 1,900,000.00	Future Drainage Project "Capitol (W.Magnolia) Drainage Project" Developed by Stormwater; estimated cost at \$8.9 million (requires further analysis)
1	Waverly Ave. - Williams Ave to Elmendorf	Ramiro Fernandez	Base failure on street and drainage issues along with missing, broken sidewalks	No drainage systems required. Recommend rehabilitating the roadway through Street Bond or IMP.	\$ 1,100,000.00	Proposed Street Rehabilitation to be included in FY 2024 Street Maintenance Program.
6	Tallahassee - Low Water Crossings 113-116	Paul Basaldua	Requested removal of multiple low water crossings within the District	City Staff recommending alternative funding to protect against erosion and/or slow the speed of the water	\$ 2,100,000.00	Future Drainage Project "LWC No 113-116 and Associated Channel Improvements" Developed by Stormwater; estimated cost at \$4million (requires further analysis)
7	De Chantle (Westhill Place)	Frank Fonseca/Cindy Medrano	Requested improvements to be done in alley behind Westhill Place to alleviate discharge coming from adjacent apartment complex.	Potentially be added to De Chantle project for 2017 Bond consideration	\$ 6,200,000.00	Future Drainage Project "De Chantle" Developed by Stormwater; estimated cost at \$6.2 million (requires further analysis)
7	2352 W. Mulberry	Ted Guerra	Alley resurfacing and regrading within the following boundaries; Woodlawn to St. Cloud, St. Cloud to Babcock, Babcock to Fredericksburg, Fredericksburg to Zarzamora, Zarzamora back to Woodlawn. Citizen has also requested alleys resurfacing in drainage as a result of rainwater run off issues going into the 100 year flood plain	Alleys that are being utilized for solid waste collection can be recommended for inclusion in the Alley Maintenance Program as part of the IMP. For all other alleys the responsibility falls to the adjacent property owners.	\$ 7,000,000.00	Service alleys being researched any service alley requiring re-paving will be incorporated into future maintenance program.
7	Overbook Alley	Frank Fonseca/Cindy Medrano	Requesting improvements to be done in the alley behind Overbrook to alleviate the discharge coming from the alley.	Recommending further coordination by SAWS	\$ 100,000.00	Determined that coordination needed with SAWS.
10	William Schiller	North New Braunfels	Requests resolution of drainage issues on North New Braunfels.	Additional studies are required.	\$ 35,000,000.00	Future Drainage Project "North New Braunfels" Developed by Stormwater; current cost at \$35million over multiple phases
2017 Bond Consideration						
6	Pinn Rd. - Low Water Crossing	Paul Basaldua	Cost Estimate to remove low water crossing.	2017 Bond consideration	\$ 15,600,000.00	Future Drainage Project "Pinn Road" Developed by Stormwater; current cost at \$24million
6	Commerce St. - Low Water Crossing	Paul Basaldua	Cost Estimate to remove low water crossing.	2017 Bond consideration	\$ 16,800,000.00	Future Drainage Project "W. Commerce Dr. Area Drainage Improvement" Developed by Stormwater; estimated cost at \$50million (requires further analysis)
7	Bexar Street Reconstruction	Luis Nanez	Requesting curbs and sidewalks along Bexar and potential underground drainage system to properly convey storm runoff.	2017 Bond consideration	\$ 1,000,000.00	Sidewalks completed on Bexar Street through capital program.
7	Wigwam Dr. Area Drainage Project	David Archibald	Flooding of the church and property.	2017 Bond consideration	\$ 1,600,000.00	Determined to be a private property issue
Projects Not Recommended for Bond Consideration						
7	Laddie I & II	Bianca Maldonado	Laddie I & II capacity be increased by deepening existing detention ponds	Project is not recommended for Bond consideration	\$ -	Options were evaluated and only viable options were reconstruction of the Kampmann system for an estimated \$51million or other systems upgrades along Kampmann at an estimated cost of \$40million; further analysis would be required for more updated costs.
7	2803 Fredericksburg Road	Bianca Maldonado	2803 Fredericksburg Rd land owned by SAHA; deepen and widen detention pond	Project is not recommended for Bond consideration	\$ -	
7	3300 Fredericksburg Road	Bianca Maldonado	Add detention pond to commercial parking lot along Fredericksburg Rd 3300 Blocks to 2800 Blocks	Project is not recommended for Bond consideration	\$ -	
7	I-10 East bound Vance Jackson/access road to Spenser Lane	Bianca Maldonado	Acquisition of land and additional detention ponds created near I-10 east bound Vance Jackson exit and access road running parallel to Spenser Lane (near Laddie II entrance)	Project is not recommended for Bond consideration	\$ -	
7	Kampmann Underground Drainage	Bianca Maldonado	Partial reconstruction of Kampmann Underground Drainage to increase capacity from 1600 blocks to 1100 blocks	Project is not recommended for Bond consideration	\$ -	
7	Monticello Park/Jefferson/Woodlawn Lake Communities	Bianca Maldonado	Request to add funding for Monticello Park to remove homes from the 100 year flood plain within community	Project is not recommended for Bond consideration	\$ -	

ATTACHMENT E – PROPOSED 2022 BOND DRAINAGE PROJECTS FLOOD IMPROVEMENTS & GREEN INFRASTRUCTURE

Project Name	CD	Flood Benefits	CLOMR/LOMR Required	Green Infrastructure	In TIRZ zone?
Barbara Drive Phase 3 (Dellwood Drive and Shadywood Lane to Oblate Drive and Barbara Drive)	1	13 properties removed from FEMA floodplain	Yes		
Elmira (Cameron St. from Cadwallader to Santa Rosa St.)	1	Alleviates street flooding	Likely	Yes	Partial – Houston Street
Peggy Drive Area Drainage Improvements (Eastgate subdivision)	2	Alleviates street flooding			
Brookside Outfall (Esma Phase 2) (Lebanon St to Unnamed Tributary to San Antonio River)	3	4 properties removed from FEMA floodplain; 16 other properties removed from local flooding	Yes	Yes	Partial – Brooks City Base
S. Pine Phase 2 (Greer St, Vanderbilt St, S. Palmetto St, and Piedmont Ave)	3	Alleviates street flooding		Yes	
Valley Hi Area Drainage Improvement (Medina Base Phase 1) (Old Valley Hi Dr. to Medina Base Rd.)	4	Alleviates street flooding	Yes		
Marbach Road Area Drainage Improvement (IH-410 to Horal)	4, 6	Alleviates street flooding			
Wilcox Street and Drainage Improvements (Quintana to Dead End)	5	Alleviates street flooding			
Cumberland (Nogalitos to Frio City)	5	Alleviates street flooding		Yes	
Lower French Creek Improvements (Low Bid Ln to Leon Creek)	6, 7	6 properties removed from local flooding and overall neighborhood access improvement			
Seeling Drainage Improvements Phase 4 (Seeling Dr. from Lowery Dr. to St. Cloud; Placid Dr from Sage to Pardo)	7	104 properties removed from local flooding (FEMA floodplain removal to be determined with PER – currently unavailable)	Yes	Yes	
Broadview & Oakwood Drainage Improvements Phase 1	7	3 properties removed from local flooding		Yes	
Gardendale (Wurzbach to Bluemel)	8	Alleviates street flooding		Yes	
Southwell North Area Drainage Improvement (Southwell at Melba St)	8	Alleviates street flooding			
Budding Culvert Replacement (North of Grape Blossom)	9	Alleviates street flooding		Yes	
Oak Haven Area Drainage Improvements (Kentwood Manor Ph 2) (Town Oak, Copper Hill, Mt. Everest and Parkstone)	9	13 properties removed from local flooding			
Evans Rd Drainage Improvements	9	Alleviates street flooding		Yes	
Eisenhower Northwood Devonshire Area Drainage Ph IA (Pike to end of Phase 1)	10	Alleviates street flooding		Yes	



SAN ANTONIO MANDATORY DETENTION AREA

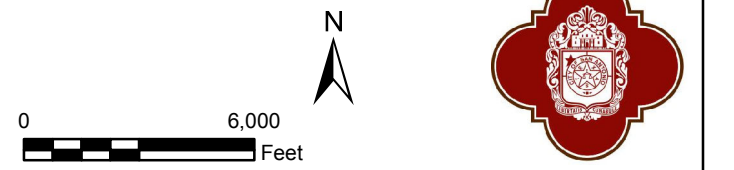
Main Watershed and Sub-Basin Map

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Date Source: City of San Antonio Enterprise GIS, Bexar Metro 911, Bexar Appraisal District

Map Last Edited: Monday, October 12, 2015

PDF Filename: \\fscm\onm\msc23\GIS\PDFs_JPEGs\Current\Exhibit\FY2015\1510ag05753_10.pdf



2022 - 2027 Bond Program
Drainage & Flood Control
October 20, 2021



TOTAL	19 PROJECTS ¹	\$ 161,571,000
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¹ Total project count excludes projects removed.

PROPOSED DRAINAGE & FLOOD CONTROL IMPROVEMENT PROJECTS						
Item	Project Name	Council District	October 13, 2021 Staff Recommendation	Change	October 19, 2021 Revised Staff Recommendation	Other/Potential Funding Sources
1	Barbara Drive Phase 3 (Dellwood Drive and Shadywood Lane to Oblate Drive and Barbara Drive)	1	\$ 5,430,000		\$ 5,430,000	\$8.6 M Storm Water Regional
2	Elmira (Cameron St. from Cadwallader to Santa Rosa St.)	1	\$ 6,050,000		\$ 6,050,000	\$6.05 M Storm Water Regional
3	Peggy Drive Area Drainage Improvements (Eastgate subdivision)	2	\$ 20,000,000		\$ 20,000,000	
4	Brookside Outfall (Esma Phase 2) (Lebanon Street to San Antonio River)	3	\$ 4,150,000		\$ 4,150,000	\$4.15 M Storm Water Regional
5	S. Pine Phase 2 (Greer St, Vanderbilt St, S. Palmetto St, and Piedmont Ave)	3	\$ 11,000,000		\$ 11,000,000	
6	Valley Hi Area Drainage (Ray Ellison from Medina Base Road to Old Valley Hi Dr.)	4	\$ 5,700,000		\$ 5,700,000	\$5.7 M Storm Water Regional
7	Marbach Road Area Drainage Improvement (IH-410 to Horal)	4, 6	\$ 15,800,000		\$ 15,800,000	\$15M 2022 Street Bond
8	Wilcox Street and Drainage Improvements (Quintana to Dead End)	5	\$ 15,400,000		\$ 15,400,000	
9	Cumberland Area Drainage Improvement (Nogalitos to Frio City Road)	5	\$ -	\$ 11,300,000	\$ 11,300,000	
10	Lower French Creek Improvements (Low Bid Ln to Leon Creek)	6, 7	\$ 6,500,000		\$ 6,500,000	\$6.5 M Storm Water Regional
11	Seeling Drainage Improvements Phase 4 (Lowery Drive to St. Cloud and Placid from Sage to Pardo)	7	\$ 7,180,000	\$ 700,000	\$ 7,880,000	\$6.85 M Storm Water Regional
12	Broadview & Oakwood Drainage Improvements Phase 1 (Broadview and W. Quill Drive)	7	\$ 9,400,000	\$ 1,000,000	\$ 10,400,000	
13	Gardendale (Wurzbach to Bluemel)	8	\$ 3,360,000		\$ 3,360,000	\$3 M 2022 Street Bond
14	Southwell North Area Drainage Improvement (Southwell Road and Melba)	8	\$ 5,930,000		\$ 5,930,000	
15	Budding Culvert Replacement (North of Grape Blossom)	9	\$ 1,700,000		\$ 1,700,000	

Attachment G

PROPOSED DRAINAGE & FLOOD CONTROL IMPROVEMENT PROJECTS						
Item	Project Name	Council District	October 13, 2021 Staff Recommendation	Change	October 19, 2021 Revised Staff Recommendation	Other/Potential Funding Sources
16	Evans Rd Drainage Improvements (Encino Rio to Bulverde Rd)	9	\$ 10,000,000		\$ 10,000,000	\$19.5M 2022 Street Bond
17	Kentwood Manor Phase 2 Drainage Improvements (Copper Hill, Parkstone Boulevard and Mt. Everest)	9	\$ -	\$ 7,400,000	\$ 7,400,000	
18	Eisenhauer Northwood Devonshire Area Drainage Ph IA (Pike from Albin to Brookside)	10	\$ 11,150,000		\$ 11,150,000	
19	N. New Braunfels Drainage Project Phase 1 (Austin Hwy to Cloverleaf.)	10	\$ 9,000,000	\$ (9,000,000)	\$ -	
PROPOSED PROJECT TOTAL			\$ 147,750,000	\$ 11,400,000	\$ 159,150,000	
20	Public Art (Drainage) 1.5%	Art	\$ 2,250,000		\$ 2,421,000	
PROPOSED PROPOSITION TOTAL <i>(Includes Art)</i>			\$ 150,000,000		\$ 161,571,000	