

2017 Comprehensive Sewer Master Plan

Supplemental Program Environmental Impact Report

Final

Vista, California

October 2017

State Clearinghouse #2007091072

Prepared for:

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Acronyms and Abbreviations

BCPS	Buena Creek Pump Station
BMPs	best management practices
BVPS	Buena Vista Pump Station
CCR	California Code of Regulations
CEQA	California Environmental Quality Act
CIP	capital improvement program
City	City of Vista
CSMP	Comprehensive Sewer Master Plan
CSMP Category 1	CIP Capacity and Condition Projects (Hardscape Environs)
CSMP Category 2	CIP Capacity and Condition Projects (Cross-Country Environs)
CSMP Category 3	O&M Program Operations and Pump Station Operations, Maintenance, and Rehabilitation
CSMP Category 4	Out-of-Service Area Project(s)
DIP	ductile iron pipe
District	Buena Sanitation District
DTSC	Department of Toxic Substances Control
EIR	Environmental Impact Report
FESA	Federal Endangered Species Act
HMP	Habitat Management Plan
I/I	inflow/infiltration
JRMP	Jurisdictional Runoff Management Program
MBTA	Migratory Bird Treaty Act
MHCP	Multiple Habitat Conservation Program
MMRP	mitigation monitoring and reporting program
O&M	operations and maintenance
PCD	polychlorinated bisphenols
PEIR	Program Environmental Impact Report
PRC	public resources code
PVC	polyvinyl chloride
RPS	Raceway Pump Station
SAP	Sub Area Plan
SDCDEH	San Diego County Department of Environmental Health
SDHR	San Diego Hydrologic Region
SMPU	Sewer Master Plan Update



SPEIR	Supplemental Program Environmental Impact Report
SSMP	Sanitary Sewer Management Plan
Study Area	EIR Study Area
SWRCB	State Water Resources Control Board
USFWS	U. S. Fish and Wildlife Service
V/C	Vista/Carlsbad
VCP	vittrified clay pipe
WMA	Watershed Management Area
WQIP	Water Quality Improvement Plan

ES Executive Summary

This executive summary provides a brief synopsis of the project description and results of the environmental analysis contained in the Supplemental Program Environmental Impact Report (SPEIR) prepared for the City of Vista's (City) proposed 2017 Comprehensive Sewer Master Plan (2017 CSMP).

ES.1 Study Area Location

The City of Vista is located in the northwestern part of San Diego County, California (see Figure ES-1). The geographic area covered by the proposed 2017 CSMP is similar to the area covered in the City's 2008 Sewer Master Plan Update (SMPU) and Program EIR (PEIR), which includes the City limits and Buena Sanitation District (District) boundaries. For the purposes of this SPEIR, the City has defined a Study Area for the proposed 2017 CSMP that includes these same areas within the City limits, portions of neighboring cities, including Oceanside, Carlsbad, and San Marcos, and unincorporated areas in the County of San Diego's North Metro Planning Area (see Figure ES-2). The Study Area also comprises two linear areas extending west of the City's service area to include the Buena Vista Pump Station (BVPS) and Buena Creek Pump Station (BCPS) and related interceptor access roads.

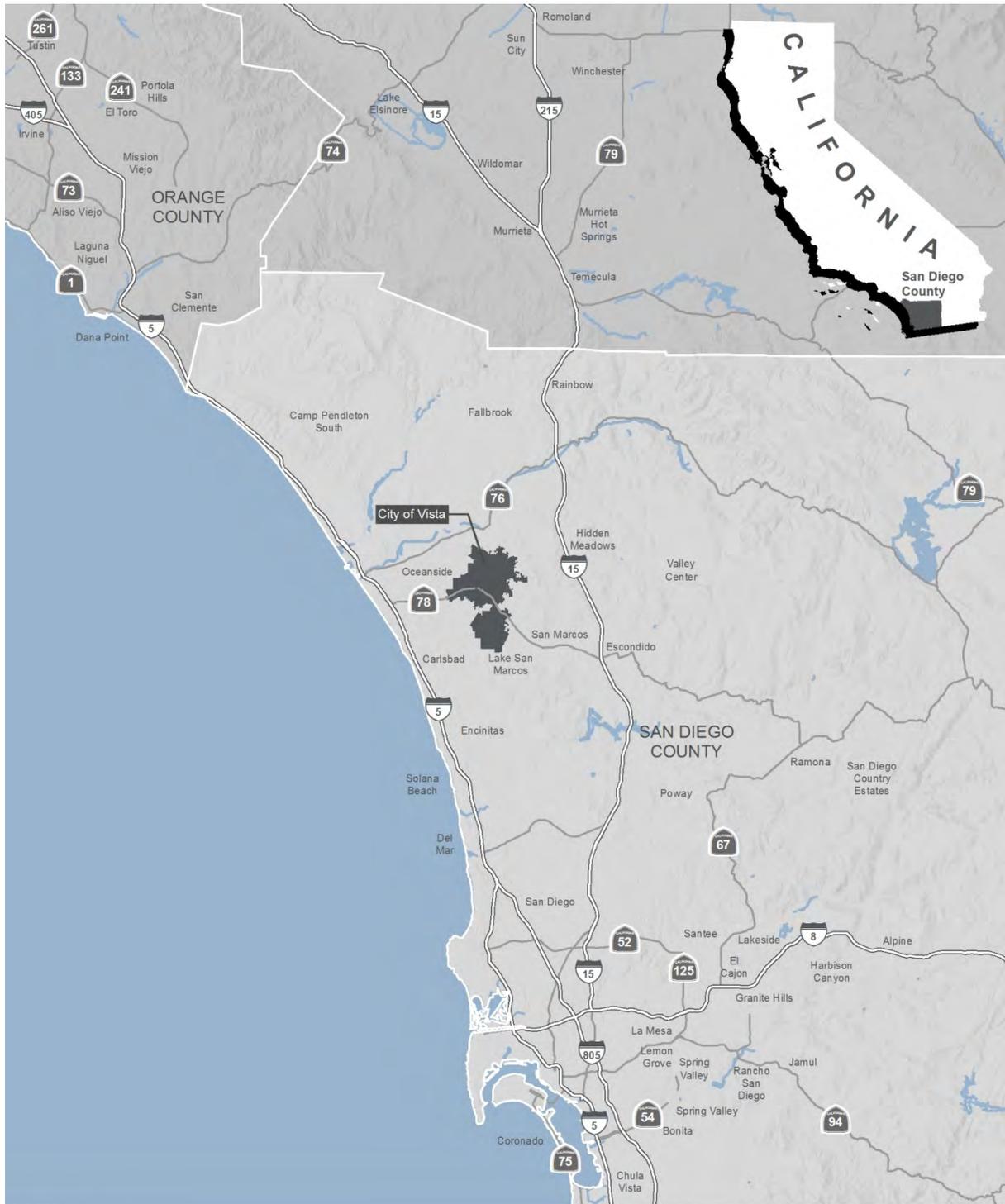
ES.2 Description of the CSMP

The City is proposing an update to its Sewer Master Plan, which was last adopted in 2008 and provided a set of recommended conveyance projects for inclusion in the City's Capital Improvement Program (CIP). These improvements were analyzed in the 2008 PEIR. The 2017 CSMP builds on and refines the previous 2008 SMPU by providing a set of recommended projects for inclusion in the City's CIP and operations and maintenance (O&M) program. The CIP component of the 2017 CSMP includes a combination of conveyance capacity improvements to address undersized pipelines and replacement/rehabilitation improvements to address pipelines in poor condition and experiencing inflow/infiltration (I/I).

CAPACITY-RELATED CIP PROJECTS. The City has identified a total of 14 capacity-related projects in the 2017 CSMP, 7 within the City and seven within the District; which is a decrease from the 20 capacity projects previously identified in the 2008 SMPU. These conveyance improvements are further prioritized for near-term or future construction based on localized capacity needs. All capacity-related CIP projects would include the replacement and upsizing of existing sewerage collection pipelines.

NON-CAPACITY-RELATED CIP PROJECTS. Similar to the 2008 SMPU, the 2017 CSMP includes the rehabilitation or replacement of ductile iron pipe (DIP) and non-vitrified clay pipe (VCP) or polyvinyl chloride (PVC) conveyance pipelines and those over 45 years in age. Under the proposed 2017 CSMP, up to 85,045 linear feet (or 16.1 miles) of the City's existing collection system is proposed for rehabilitation or replacement with no corresponding increase in capacity.

Figure ES-1. Regional Location



LEGEND

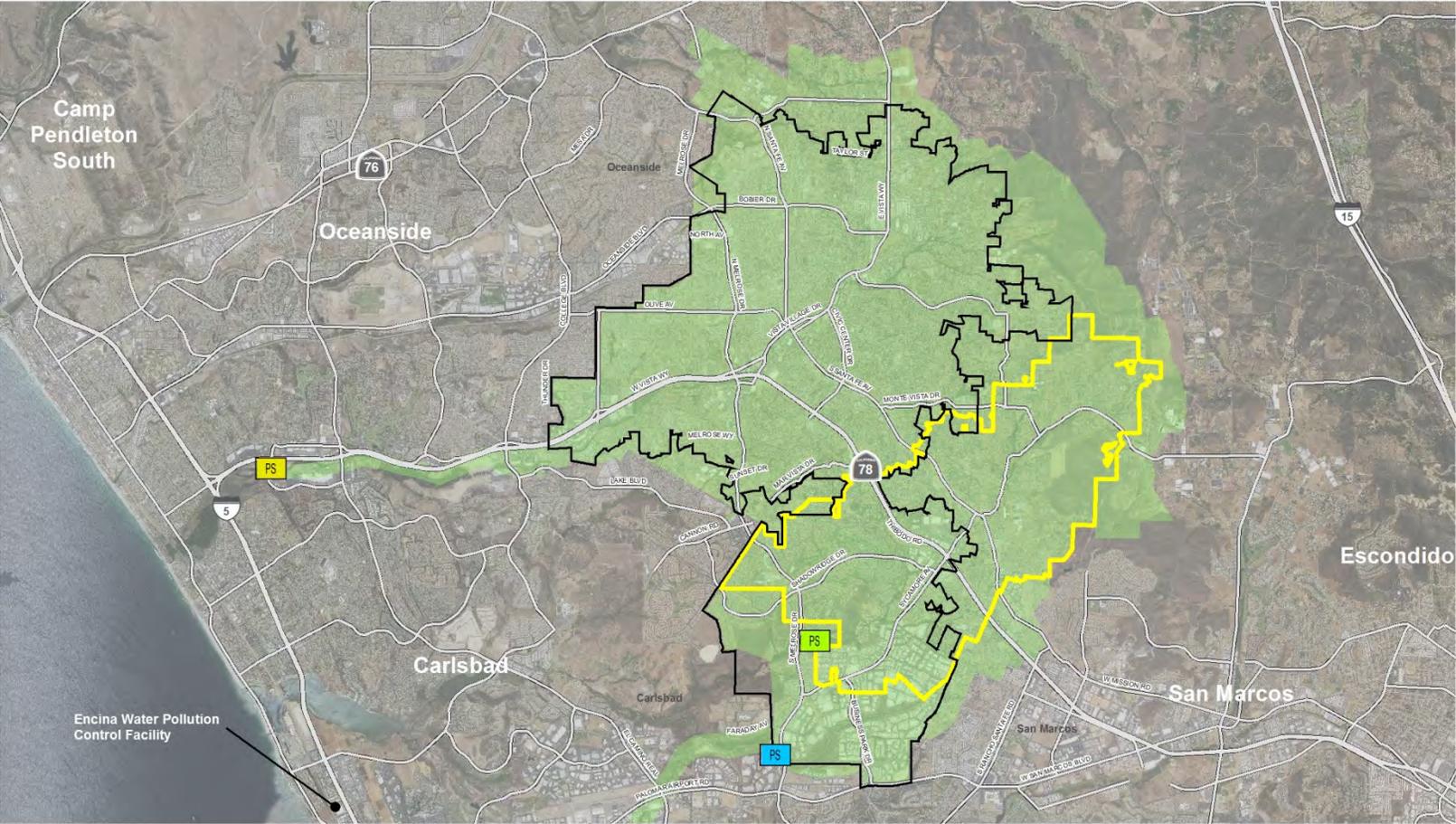
 City of Vista



0 Miles 10



Figure ES-2. Study Area



- City of Vista
- Buena Sanitation District
- EIR Study Area
- Major Roads
- Buena Vista PS
- Buena Creek PS
- Raceway PS



O&M PROGRAM. The O&M Program provides a continuation of the City's existing condition assessment program consistent with the City's adopted Sanitary Sewer Management Plan (SSMP 2014). The condition assessment program is a combination of wet-weather flow measurement, televised inspections, and aboveground inspections on a 5- to 10-year program basis. Typical activities would also include routine patrolling, inspections, and emergency repair by the City's Wastewater Maintenance Division; similar to existing conditions.

Other components of the O&M Program include the replacement/rehabilitation of the City's existing pumping stations, including the BVPS, BCPS, and Raceway Pump Stations (RPS). In addition, the repair, upgrade, and rehabilitation of existing access roads would occur under the O&M Program on an as-needed basis.

ES.3 Required Approvals

The approval of the proposed 2017 CSMP would require a discretionary action by the City. Consistent with § 15050 and 15367 of the State California Environmental Quality Act (CEQA) Guidelines, the City is designated as the Lead Agency for the 2017 CSMP. The following discretionary actions would be required to implement the 2017 CSMP:

- Certification of the Final SPEIR
- Approval/Adoption of the 2017 CSMP and sewer fees

Certain improvements proposed under the 2017 CSMP would also require a permit and/or discretionary approval by other State and local agencies. Agencies and their potential approvals for the components included in the 2017 CSMP are identified in Table 3-6 of the Draft SPEIR.

ES.4 Areas of Controversy Known to the Lead Agency

State CEQA Guidelines § 15123(b)(2) requires that areas of controversy known to the Lead Agency be stated in the Environmental Impact Report (EIR) summary. Comments on the Draft SPEIR for the 2017 CSMP were received from the following:

- Department of Toxic Substances Control
- San Diego County Department of Planning and Development Services
- U. S. Fish and Wildlife Service
- Rincon Band of Luiseño Indians
- San Luis Rey Band of Mission Indians

These comment letters are contained in Chapter 2 of this Final SPEIR.

ES.5 Issues to be Resolved by the Decision-Making Body

The State CEQA Guidelines § 15123(b)(3) requires a discussion of issues to be resolved including a choice of alternatives and whether or how to mitigate significant effects. Based on all information included in the Record of Proceedings, the City Council must decide whether or not the EIR was prepared in compliance with CEQA (Public Resources Code 21000, et. seq.) and Guidelines for Implementation of CEQA (California Code of Regulations [CCR] § 15000, et seq.). The City Council

is required to certify the SPEIR and consider whether to approve the 2017 CSMP or one of the project alternatives. Furthermore, the City Council must decide if the proposed mitigation is adequate and choose whether or how to mitigate any significant impacts. Alternatives have also been identified that would reduce or avoid the significant impacts identified for the proposed 2017 CSMP. The City Council will need to decide to approve one of the alternatives discussed in this EIR instead or approve the proposed 2017 CSMP.

ES.6 Impacts and Alternatives Summary

Table ES-1 summarizes the environmental impacts, mitigation measures, and level of significance after mitigation associated with the 2017 CSMP. Detailed analyses of these topics are included within each corresponding section contained within Chapter 4 of the Draft SPEIR. As described in more detail in Section 4.0.1 of the Draft SPEIR, the programmatic analysis in this SPEIR differentiates between the major components (or project categories) of the 2017 CSMP. These 2017 CSMP categories include the following:

- Category 1: CIP Capacity and Condition Projects (Hardscape Environs);
- Category 2: CIP Capacity and Condition Projects (Cross-Country Environs);
- Category 3: O&M Program Operations and Pump Station Rehabilitations; and
- Category 4: Out-of-Service Area Projects.

Where new mitigation measures are proposed, these measures would replace the applicable mitigation measures and/or project design features and construction measures identified in the 2008 PEIR. In addition, where proposed, the Final SPEIR identifies which of the 2017 CSMP Categories in which the mitigation would apply.

Table ES-2 provides a summary comparison of the alternatives to the 2017 CSMP. The alternatives that were analyzed in detail in the Draft SPEIR are the No Project Alternative and 2008 SMPU Alternative. Refer to Chapter 6 of the Draft SPEIR for a detailed discussion of each alternative.



Table ES-1. Summary of Impacts and Mitigation Measures

Issue	Impact	Significance Before Mitigation ^{1, 2}				Mitigation Measures	Significance After Mitigation ^{1, 2}				
		CSMP Cat. 1	CSMP Cat. 2	CSMP Cat. 3	CSMP Cat. 4		CSMP Cat. 1	CSMP Cat. 2	CSMP Cat. 3	CSMP Cat. 4	
Air Quality											
Conflict with an Air Quality Management Plan	The 2017 CSMP would not conflict with or obstruction implementation of an applicable air quality plan.	LS	LS	LS	LS	No mitigation is required.	LS	LS	LS	LS	
Consistency with Air Quality Standards or Cumulatively Considerable Net Increase of Criteria Pollutant	The 2017 CSMP would not violate any air quality standard or contribute substantially to an existing or projected air quality violation. The 2017 CSMP would not result in a cumulatively considerable net increase of any criteria pollutant for which the project region is non-attainment under an applicable federal or state ambient air quality standard.	LS	LS	LS	LS	No mitigation is required.	LS	LS	LS	LS	
Expose Sensitive Receptors to Substantial Pollutants	The 2017 CSMP would not expose sensitive receptors to substantial pollutant concentrations.	LS	LS	LS	LS	No mitigation is required.	LS	LS	LS	LS	
Odors	The 2017 CSMP would not create objectionable odors affecting a substantial number of people.	LS	LS	LS	LS	No mitigation is required.	LS	LS	LS	LS	



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		CSMP Cat. 1	CSMP Cat. 2	CSMP Cat. 3	CSMP Cat. 4		CSMP Cat. 1	CSMP Cat. 2	CSMP Cat. 3	CSMP Cat. 4
Biological Resources										
Candidate, Sensitive, or Special-Status Species	Impact 4.2-1: The 2017 CSMP could have a substantial adverse effect, either directly or through habitat modifications, on any species identified as a candidate, sensitive, or special status species in local or regional plans, policies, or regulations, or by the CDFW or USFWS.	S	S	S	S	BIO-1: MBTA Nest Avoidance. BIO-2: Habitat Assessment and Focused Surveys for Special-Status Species and Sensitive Habitats BIO-3: Formal Wetland Delineation and Permit Acquisition HWQ-1: Assess Project Risk, Receiving Water Vulnerability, and Implement a Water Quality Protection Strategy HWQ-2: Prepare and Implement a Flow Diversion Plan for Construction	LS	LS	LS	LS



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Sensitive Habitat	Impact 4.2-2: Sensitive natural communities including Diegan coastal sage scrub, southern maritime chaparral, southern mixed chaparral, southern coast live oak riparian forest, southern riparian scrub, southern sycamore-alder riparian woodland, and southern cottonwood-willow riparian forest could be impacted by the 2017 CSMP.	LS	S	LS	S	BIO-1: MBTA Nest Avoidance. BIO-2: Habitat Assessment and Focused Surveys for Special-Status Species and Sensitive Habitats BIO-3: Formal Wetland Delineation and Permit Acquisition HWQ-1: Assess Project Risk, Receiving Water Vulnerability, and Implement a Water Quality Protection Strategy HWQ-2: Prepare and Implement a Flow Diversion Plan for Construction	LS	LS	LS	LS



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Wetlands	Impact 4.2-3: Construction of conveyance (cross-country) and access improvements as part of the 2017 CSMP could involve construction-related, direct impacts to wetlands and waters of the U.S. and State within the Study Area. These activities could result in the placement of fill materials or excavation within jurisdictional waters of the U.S., including wetlands, and State. In addition, potentially jurisdictional areas could be indirectly impacted by erosion, sedimentation, or inadvertent spills during construction.	LS	S	LS	S	BIO-3: Formal Wetland Delineation and Permit Acquisition HWQ-1: Assess Project Risk, Receiving Water Vulnerability, and Implement a Water Quality Protection Strategy HWQ-2: Prepare and Implement a Flow Diversion Plan for Construction	LS	LS	LS	LS
Wildlife Movement	The 2017 CSMP would not interfere substantially with the movement of any native resident or migratory fish or wildlife species or with established native resident or migratory wildlife corridors, or impede the use of native wildlife nursery sites.	LS	LS	LS	LS	No mitigation is required.	LS	LS	LS	LS
Conflict with Local Policies Protecting Biological Resources	The 2017 CSMP would not conflict with any local policies or ordinances protecting biological resources, such as tree preservation policy or ordinance.	LS	LS	LS	LS	No mitigation is required.	LS	LS	LS	LS



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		CSMP Cat. 1	CSMP Cat. 2	CSMP Cat. 3	CSMP Cat. 4		CSMP Cat. 1	CSMP Cat. 2	CSMP Cat. 3	CSMP Cat. 4
Conflict with Habitat Conservation Plan	Impact 4.2-6: Components of the 2017 CSMP may be constructed in sensitive habitat areas that are subject to the San Diego County MHCP or Carlsbad HMP.	NI	S	NI	S	BIO-2: Habitat Assessment and Focused Surveys for Special-Status Species and Sensitive Habitats BIO-3: Formal Wetland Delineation and Permit Acquisition	NI	LS	NI	LS
Cultural Resources										
Historical Resources	Impact 4.3-1: Construction activities within 25 feet of fragile structures could result in damaging vibrations levels for historical resources.	S	S	NI	NI	CULT-1: Construction-Related Vibration	LS	LS	NI	NI
Archaeological Resources	Impact 4.3-2: Potential impacts to cultural resources could result from clearing, trenching, and grading activities associated with the construction of pipelines or other related facilities and any rehabilitations of existing pipes, which may result in disturbing native soil.	S	S	S	S	CULT-2: Project-Specific Archaeological Survey CULT-3: Archaeological Monitoring	LS	LS	LS	LS
Paleontological Resources	Impact 4.3-3: Pipeline improvements, where extending to a depth of 10 feet or greater, located in areas characterized with a moderate to high sensitivity for paleontological resources have the potential to directly destroy paleontological resources during excavation activities.	S	S	S	S	CULT-4: Paleontological Monitoring	LS	LS	LS	LS



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Human Remains	The 2017 CSMP would not disturb any human remains, including those interred outside of formal cemeteries.	S	S	S	S	CULT-5 Disturbance to Human Remains.	LS	LS	LS	LS
Tribal Cultural Resources	Impact 4.3-5: Multiple improvements proposed under the 2017 CSMP would involve ground disturbing construction activities that would occur within 100 feet of potentially significant pre-historic and historic archaeological resources. These direct impacts could be significant.	S	S	LS	S	CULT-2: Project-Specific Archaeological Survey CULT-3: Archaeological Monitoring	LS	LS	LS	LS
Greenhouse Gases and Energy										
Greenhouse Gas Emissions	The 2017 CSMP would not generate GHG emissions either directly or indirectly, that may have a significant impact on the environment or conflict with an applicable plan, policy, or regulation.	LS	LS	LS	LS	No mitigation is required.	LS	LS	LS	LS
Wasteful, Inefficient, or Unnecessary Consumption of Energy	The 2017 CSMP would not result in the wasteful, inefficient, or unnecessary consumption of energy.	LS	LS	LS	LS	No mitigation is required.	LS	LS	LS	LS
Hazards and Hazardous Materials										
Routine Transport, Use, or Disposal of Hazardous Materials	The 2017 CSMP would not create a significant hazard to the public or the environment through the routine transport, use, or disposal of hazardous materials.	LS	LS	LS	LS	No mitigation is required.	LS	LS	LS	LS



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Accidental Release of Hazardous Materials	Impact 4.5-2: Construction of new conveyance facilities or access road reconstruction would involve excavation and grading activities, which could encounter documented and unreported contaminated soils and groundwater during excavation activities. In addition, if demolition is required for the reconstruction of pump station sites, there is a potential to expose the public and the environment to lead based paint, asbestos, and or/other hazardous materials.	S	S	S	S	HAZ-1: Halt Construction Work if Potentially Hazardous Materials are Encountered HAZ-2: Hazardous Materials Surveys HWQ-1: Assess Project Risk, Receiving Water Vulnerability, and Implement a Water Quality Protection Strategy	LS	LS	LS	LS
Hazardous Materials Near Schools	The 2017 CSMP would not emit hazardous emissions or handle hazardous or acutely hazardous materials, substances, or waste within 0.25 mile of an existing or proposed school.	LS	LS	LS	NI	No mitigation is required.	LS	LS	LS	NI
Located on a Hazardous Material Site	The 2017 CSMP would not be located on a site which is located on a list of hazardous materials sites compiled pursuant to Government Code Section 65962.5 and, as a result, would create a significant hazard to the public or the environment.	LS	LS	LS	LS	No mitigation is required.	LS	LS	LS	LS

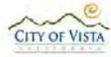


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Airports	The 2017 CSMP would not result in a safety hazard for people residing or working in the project area, if located within an airport land use plan or, where such a plan has not been adopted, within two miles of a public airport or public use airport.	LS	LS	LS	LS	No mitigation is required.	LS	LS	LS	LS
Emergency Response Plan	Impact 4.5-6: Access for emergency vehicles could be impaired as result of reduced roadway widths (or capacity) and increased volumes of construction-related traffic and/or re-distributed traffic.	S	S	S	S	TR-1: Prepare and Implement a Traffic Control Plan	LS	LS	LS	LS
Wildland Fires	Impact 4.5-7: There are CIP Capacity and Condition Projects (Cross-Country Environs), out-of-service area access roads, and pump stations located within fire hazard severity zones. Furthermore, a majority of these improvements are located on undeveloped land and potentially flammable materials such as brush, grass, or trees could pose a slight risk of wildland fires during construction.	LS	S	S	S	HAZ-3: Keep Construction Area Clear of Combustible Materials HAZ-4: Provide Accessible Fire Suppression Equipment	LS	LS	LS	LS



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Hydrology and Water Quality										
Violate Water Quality Standards or Waste Discharge Requirements	Impact 4.6-1: Projects with cross-country segments would be constructed in or adjacent to natural and open space areas and could result in greater disturbance areas, vegetation removal, deeper excavations, and/or construction dewatering and associated temporary containment and/or treatment. Precipitation during construction would likely increase the amount of sedimentation in surface runoff. Vegetation removal would result in the exposure of bare ground to the precipitation and wind movement, changing the velocity and amount of surface runoff.	LS	S	LS	S	HWQ-1: Assess Project Risk, Receiving Water Vulnerability, and Implement a Water Quality Protection Strategy	LS	LS	LS	LS
Groundwater Depletion and Recharge	The 2017 CSMP would not substantially deplete groundwater supplies or interfere substantially with groundwater recharge such that there would be a net deficit in aquifer volume or a lowering of the local groundwater table level.	LS	LS	LS	LS	No mitigation is required.	LS	LS	LS	LS



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Alteration of Existing Drainage Pattern and Flooding	Impact 4.6-3: Multiple projects included in the 2017 CSMP would be implemented in a 100-year flood zone. These improvements could be subjected to related flood hazards. Additionally, construction activities occurring within the channel and delineated 100-year flood zone would likely require the passage or diversion of flow through the active construction area, if present.	LS	S	LS	S	HWQ-1: Assess Project Risk, Receiving Water Vulnerability, and Implement a Water Quality Protection Strategy HWQ-2: Prepare and Implement a Flow Diversion Plan for Construction	LS	LS	LS	LS
Runoff Water	Impact 4.6-4: See Impact 4.6-1 above.	LS	S	LS	S	HWQ-1: Assess Project Risk, Receiving Water Vulnerability, and Implement a Water Quality Protection Strategy	LS	LS	LS	LS
Failure of a Levee or Dam	Impact 4.6-5: Multiple projects included in the 2017 CSMP would be implemented in a 100-year flood zone. These improvements could be subjected to related flood hazards.	LS	S	LS	LS	HWQ-1: Assess Project Risk, Receiving Water Vulnerability, and Implement a Water Quality Protection Strategy	LS	LS	LS	LS
Land Use and Planning										
Divide an Established Community	The 2017 CSMP would not physically divide an established community.	LS	LS	NI	NI	No mitigation is required.	LS	LS	NI	NI



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		CSMP Cat. 1	CSMP Cat. 2	CSMP Cat. 3	CSMP Cat. 4		CSMP Cat. 1	CSMP Cat. 2	CSMP Cat. 3	CSMP Cat. 4
Conflict with an Applicable Land Use Plan, Policy, or Regulation	The 2017 CSMP would not conflict with an applicable land use plan, policy, or regulation of an agency with jurisdiction over the project adopted for the purpose of avoiding or mitigating an environmental effect.	LS	LS	LS	LS	No mitigation is required.	LS	LS	LS	LS
Conflict with a Habitat Conservation Plan or Natural Community Conservation Plan	The 2017 CSMP would not conflict with a habitat conservation plan or natural community conservation plan.	LS	LS	LS	LS	No mitigation is required.	LS	LS	LS	LS
Noise and Vibration										
Generate Noise Levels in Excess of Standards	Impact 4.8-1: Construction-related noise associated with the 2017 CSMP has the potential to exceed the thresholds established in the City of Vista Noise Control Ordinance and the County of San Diego Noise Control Ordinance of 75 dBA for more than eight hours during any 24 hour period.	S	S	S	S	NV-1: Construction Noise Reduction Measures	LS	LS	LS	LS
Groundborne Vibration and Noise	The 2017 CSMP would not expose people to or generate excessive ground-borne vibration or ground-borne noise levels.	LS	LS	LS	LS	No mitigation is required.	LS	LS	LS	LS
Aircraft Noise	The 2017 CSMP would not result in the exposure of people residing or working in the project area to excessive noise levels from public or private aircraft.	LS	LS	LS	LS	No mitigation is required.	LS	LS	LS	LS



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Transportation and Circulation										
Conflict with an Applicable Congestion Management Program	Impact 4.9-1: Construction-related activities and traffic associated with the proposed 2017 CSMP could result in a temporary and intermittent decrease in the level of service capacity of public streets due to pipe line work that may require partial or full street closures.	P	S	LS	S	TR-1: Prepare and Implement a Traffic Control Plan	LS	LS	LS	LS
Hazards from Design or Incompatible Uses	Impact 4.9-2: Construction activities could result in the direct disruption of traffic flows and street operations (including the use of bus stops), and restriction of bicycle and pedestrian access to adjacent land uses and streets.	S	S	LS	S	TR-1: Prepare and Implement a Traffic Control Plan	LS	LS	LS	LS
Inadequate Emergency Access	Impact 4.9-3: Construction of the individual conveyance improvements under the proposed 2017 CSMP would occur within mainly public roadway ROW. As construction progresses, access for emergency vehicles could be impaired as result of reduced roadway widths (or capacity) and increased volumes of construction-related traffic and/or re-distributed traffic.	S	S	LS	LS	TR-1: Prepare and Implement a Traffic Control Plan	LS	LS	LS	LS



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Issue	Impact	Significance Before Mitigation ^{1, 2}				Mitigation Measures	Significance After Mitigation ^{1, 2}			
		CSMP Cat. 1	CSMP Cat. 2	CSMP Cat. 3	CSMP Cat. 4		CSMP Cat. 1	CSMP Cat. 2	CSMP Cat. 3	CSMP Cat. 4
Conflict with Plans Supporting Alternative Transportation	Impact 4.9-4: Because pipeline construction would require sufficient space (e.g., up to 60-foot construction zone) to accommodate open trenches/pits and additional room for the placement of material and equipment, the travel width of roadways (and sidewalks) would be reduced. As such, alternative transportation and circulation patterns in the vicinity of work zones would temporarily be disrupted. Specifically, impacts could include direct disruption of bus service, changes to pedestrian movements, or restrictions to bicycle access to adjacent land uses and streets.	S	S	LS	S	TR-1: Prepare and Implement a Traffic Control Plan	LS	LS	LS	LS

Source: HDR

Notes:

1. CSMP Cat. 1 = CIP Capacity and Condition Projects (Hardscape Environs)
 CSMP Cat. 2 = CIP Capacity and Condition Projects (Cross-Country Environs)
 CSMP Cat. 3 = O&M Program Operations and Pump Station Operations, Maintenance, and Rehabilitation
 CSMP Cat. 4 = Out-of-Service Area Project(s)
2. NI = No impact
 LS = Less than significant impact
 S= Potentially significant impact



Table ES-2. Comparison of Alternatives to 2017 CSMP

Environmental Issue Area	Proposed 2017 CSMP	No Project (2008 SMPU) Alternative	Alternative 1 – Near Term Capacity Improvements
Air Quality	NSI	Greater	Similar
Biological Resources	LTSM	Similar	Similar
Cultural Resources	LTSM	Similar	Similar
Greenhouse Gases and Energy	NSI	Similar	Similar
Hazards and Hazardous Materials	LTSM	Similar	Similar
Hydrology and Water Quality	LTSM	Similar	Similar
Land Use and Planning	NSI	Greater	Similar
Noise and Vibration	LTSM	Similar	Similar
Transportation and Circulation	LTSM	Similar	Similar

Source: HDR

Notes: NA = No significant impact identified associated with 2017 CSMP.

LTSM = Less than significant impact with mitigation.

Avoid = Impacts under this alternative avoided as compared to impacts for the 2017 CSMP.

Reduced = Impacts under this alternative reduced as compared to impacts for the 2017 CSMP.

Similar = Impacts under this alternative similar to impacts for the 2017 CSMP.

Greater = Impacts under this alternative greater to impacts for the 2017 CSMP.



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1 Overview of the Final Program Environmental Impact Report

1.1 Introduction

The City of Vista 2017 Comprehensive Sewer Master Plan (2017 CSMP) Final Supplemental Program Environmental Impact Report (Final SPEIR) contains three chapters and an attachment and is intended to be used in conjunction with the Draft SPEIR.

Chapter 1 presents an overview of the Final SPEIR; its contents; the responsibility of the lead agency to provide written responses to comments received on the Draft SPEIR; information on where the Final SPEIR may be reviewed; the process of certifying the Final SPEIR; and a brief description and legal authority on the Findings of Fact (Findings), and Mitigation Monitoring and Reporting Program (MMRP).

Chapter 2 discusses the public review of the Draft SPEIR; the comments received on the Draft SPEIR; and the lead agency's responses to the comments received.

Chapter 3 contains the revisions to the Draft SPEIR, which are designed to replace specific sections within that document.

Appendix A contains the MMRP, which lists the 2017 CSMP mitigation measures and provides the timing and methodology, and identifies the parties responsible for implementation and monitoring.

Appendix B contains a standardized checklist form intended to assist the City of Vista (City) (and Buena Sanitation District [District]) in assessing projects included under the 2017 CSMP according to the procedures provided in § 15168(c) of the California Environmental Quality Act (CEQA) guidelines.

1.2 Contents of the Final Supplemental Program Environmental Impact Report

The contents of a Final Environmental Impact Report (EIR) are discussed in State CEQA Guidelines § 15132. This Final SPEIR includes the following required items:

- A list of persons, organizations, and public agencies commenting on the Draft SPEIR (Chapter 2, Table 2-1)
- Comments and recommendations received on the Draft SPEIR (Chapter 2)
- Responses of the lead agency to significant environmental concerns raised in the review (Chapter 2)
- Revisions (or modifications) to the Draft SPEIR (Chapter 3)

1.3 Review of the Draft Program Supplemental Environmental Impact Report and Responses to Comments

A 45-day public review of the Draft SPEIR began July 31, 2017 and ended September 14, 2017. The City has evaluated comments received on the Draft SPEIR and has prepared written responses. The City has forwarded written responses to all public agencies that sent comments on the Draft SPEIR, providing each public agency at least 10 days to review the responses prior to the City Council hearing (State CEQA Guidelines § 15088[b]).

The City will post the Final SPEIR on the city's website (<http://www.cityofvista.com/services/city-departments/engineering/online-resources>) for review at least 10 days prior to the public hearing.

1.4 Certification of the Final Supplemental Program Environmental Impact Report

Certification of the Final SPEIR is required prior to approving the 2017 CSMP. Pursuant to State CEQA Guidelines § 15090(a)(1), (2), and (3), the lead agency must certify that:

- The Final SPEIR has been completed in compliance with CEQA;
- The Final SPEIR was presented to the decision-making body of the lead agency and the decision-making body reviewed and considered the information contained in the Final SPEIR prior to approving the project; and
- The Final SPEIR reflects the lead agency's independent judgment and analysis.

1.5 Findings of Fact

Implementation of the 2017 CSMP would result in significant impacts, prior to implementation of proposed mitigation measures, to biological resources, cultural resources, hazardous materials, water quality, noise and vibration, and transportation and circulation. CEQA requires that the City make findings for each significant impact, accompanied by a brief explanation of the rationale for each finding (State CEQA Guidelines § 15091). The findings must be supported by substantial evidence in the record. The possible findings are:

- Changes or alterations have been required in, or incorporated into, the project that avoid or substantially lessen the significant environmental effect as identified in the Final SPEIR.
- Such changes or alterations are within the responsibility and jurisdiction of another public agency and not the agency making the finding. Such changes have been adopted by another agency and can and should be adopted by that agency.
- Specific economic, legal, social, technological, or other considerations, including provision of employment opportunities for highly trained workers, make infeasible the mitigation measures or project alternatives identified in the Final SPEIR.



The Findings of Fact for the Final SPEIR is available under separate cover and accompanies the 2017 CSMP, Final SPEIR, and MMRP in the official Staff Report to the Planning Commission and City Council.

1.6 Mitigation Monitoring and Reporting Program

The purpose of adopting a MMRP is to ensure the mitigation measures listed in the Final SPEIR to reduce significant impacts are implemented.

The MMRP is included as Appendix A to this document and accompanies the 2017 CSMP and CEQA Findings in the official staff report to the Planning Commission and City Council.

1.7 Subsequent CEQA Review

According to CEQA Guidelines 15168(c), subsequent activities implemented under the 2017 CSMP must be examined in the light of the SPEIR to determine whether an additional environmental document must be prepared. Appendix B to this document includes a project-level environmental checklist to support this examination for future projects covered under the 2017 CSMP.



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2 Responses to Comments

2.1 Distribution of the Draft Supplemental Program EIR

The Draft SPEIR prepared by the City was sent to the State Clearinghouse and distributed to appropriate federal, state, and local agencies, as well as the general public for a formal 45-day public review beginning July 31, 2017 and ending September 14, 2017. The 2017 CSMP and the Draft SPEIR were available for public review at:

- City of Vista, Community Development Department, 200 Civic Center Drive, Vista, California 92084; and
- City’s website: <http://www.cityofvista.com/departments/communitydev/environmentaldocuments.cfm>.

2.2 Comments on the Draft Supplemental Program EIR

The City received five comment letters on the Draft SPEIR during the 45-day public review period. Table 2-1 lists the agencies, organizations, and individuals who commented on the Draft SPEIR and the page number where the comment letter is provided in this chapter.

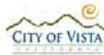
Table 2-1. Public Comments Received on the Draft SPEIR

Letter	Date Received (2017)	Individual/Organization	Page
1	August 21	Department of Toxic Substances Control	2-2
2	September 12	County of San Diego, Planning & Development Services	2-7
3	September 13	U. S. Fish and Wildlife Service	2-11
4	September 14	Rincon Band of Luiseno Indians	2-15
5	August 2	San Luis Rey Band of Mission Indians	2-17

2.3 Responses to Comments

In compliance with State CEQA Guidelines Section 15088, the City has evaluated the comments on significant environmental issues received from agencies and other interested parties and prepared written responses to each comment related to the adequacy of the environmental analyses contained within the Draft SPEIR. In addition, where appropriate, the basis for incorporating specific suggestions into the 2017 CSMP is provided. In each case, the City has expended a good faith effort, supported by the facts in the administrative record, to respond to comments.

Minor modifications herein do not alter the conclusions of the environmental analysis such that new significant environmental impacts have been identified, nor do they constitute significant new information. Changes are provided in tracking mode (underline for new text and strikeout for deleted text). Minor text changes, such as typographical errors, were made to the Final SPEIR as necessary. However, these minor text changes are not included in this document. Some comments have prompted changes to the text of the Draft SPEIR or to the 2017 CSMP, which are referenced in this chapter and shown in the Chapter 3 of this Final SPEIR. A copy of each comment letter is provided below, and responses to each comment letter follow immediately after.



2.3.1 Comment Letter 1 - Department of Toxic Substances Control



Matthew Rodriguez
Secretary for
Environmental Protection



Department of Toxic Substances Control

Barbara A. Lee, Director
5796 Corporate Avenue
Cypress, California 90630



Edmund G. Brown Jr.
Governor

August 21, 2017

Mr. Elmer Alex
Principal Engineer
City of Vista Engineering Department
200 Civic Center Drive
Vista, California 92084
ealex@cityofvista.com

DRAFT SUPPLEMENTAL PROGRAM ENVIRONMENTAL IMPACT REPORT (SPEIR)
FOR 2017 COMPREHENSIVE SEWER MASTER PLAN PROJECT CITY OF VISTA
AND BUENA VISTA SANITATION DISTRICT (SCH# 2007091072)

Dear Mr. Alex:

The Department of Toxic Substances Control (DTSC) has reviewed the subject SPEIR. The following project description is stated in the SPEIR: "The City is proposing an update to its Sewer Master Plan, which was last adopted in 2008 and provided a set of recommended conveyance projects for inclusion in the City's Capital Improvement Program (CIP). These improvements were analyzed in the 2008 PEIR. The 2017 CSMP builds on and refines the previous 2008 SMPU by providing a set of recommended projects for inclusion in the City's capital improvement program (CIP) and operations and maintenance (O&M) program. The CIP component of the 2017 CSMP includes a combination of conveyance capacity improvements to address undersized pipelines and replacement/rehabilitation improvements to address pipelines in poor condition and experiencing inflow/infiltration (I/I)."

1-1

Based on the review of the submitted document, DTSC has the following comments:

The SPEIR states: "The results of the database search are illustrated in Figure 4.5-2. A complete listing of properties in which historic or on-going activities have resulted in a reported release of hazardous materials into soil and groundwater, as identified by DTSC and SWRCB, are presented in Appendix G of this SPEIR."

1-2

a. Identify the name(s) of the regulatory agency(ies) currently overseeing/approved the closure of these contaminated sites.

1-3

b. Indicate whether the groundwater is impacted with contamination. If groundwater is impacted, then evaluate potential vapor intrusion onsite associated with groundwater contamination.

1-4



Mr. Elmer Alex
August 21, 2017
Page 2

- c. DTSC is unable to evaluate whether vapor sampling and/or potential vapor intrusion risk was adequately addressed due to lack of relevant detailed information in the SPEIR.] 1-5
- 2. If the project plans include discharging wastewater to a storm drain, you may be required to obtain an NPDES permit from the overseeing Regional Water Quality Control Board (RWQCB).] 1-6
- 3. If the project site was used for agricultural or related activities, residual pesticides may be present in onsite soil. DTSC recommends investigation and mitigation, as necessary, to address potential impact to human health and environment from residual pesticides.] 1-7
- 4. DTSC recommends evaluation, proper investigation and mitigation, if necessary, on onsite areas with current or historic PCB-containing transformers.] 1-8
- 5. As far as the project area is contaminated with hazardous substances, the excavated soil should be sampled prior to export/disposal. If the soil is contaminated, it should be disposed of properly in accordance with all applicable and relevant laws and regulations. In addition, if the project proposes to import soil to backfill the excavated areas, proper evaluation and/or sampling should be conducted to make sure that the imported soil is free of contamination.] 1-9
] 1-10
- 6. If during construction/demolition of the project, soil and/or groundwater contamination is suspected, construction/demolition in the area should cease and appropriate health and safety procedures should be implemented. If it is determined that contaminated soil and/or groundwater exist, the SPEIR should identify how any required investigation and/or remediation will be conducted and the appropriate government agency to provide regulatory oversight.] 1-11

If you have any questions regarding this letter, please contact me at (714) 484-5380 or email at Johnson.Abraham@dtsc.ca.gov.

Sincerely,

Johnson P. Abraham
Project Manager
Brownfields Restoration and School Evaluation Branch
Brownfields and Environmental Restoration Program - Cypress

kl/sh/ja

cc: See next page.

Response to Letter 1 – Department of Toxic Substances Control

Comment 1-1 Response

The description of the 2017 CSMP as reflected in the comment letter is accurate.

Comment 1-2 Response

Comment noted. Appendix F of the Draft SPEIR includes a listing of properties within the Study Area contained in DTSC's EnviroStor and State Water Resources Control Board's (SWRCB) Geotracker databases, respectively.

Comment 1-3 Response

Appendix F includes the database information from EnviroStor and GeoTracker that is publically available. For the EnviroStor sites listed in Appendix F, the lead agency is identified, along with the current compliance status. As provided on page 4.5-6 of the Draft SPEIR, the San Diego County Department of Environmental Health (SDCDEH) regulates and enforces above and below ground storage tanks and, therefore, is the primary agency overseeing the sites included in the Geotracker database.

Comment 1-4 Response

The comment requests additional information pertaining to the potential for groundwater contamination and concerns related to vapor intrusion. Appendix F includes the properties listed in the SWRCB's Geotracker database with potential groundwater contamination. These sites would be the most likely to be associated soil vapor intrusion concerns (during construction).

Comment 1-5 Response

Comments related to the potential for encountering undocumented soils or groundwater contamination are addressed in Impact 4.5-2 of the Draft SPEIR. Given the programmatic-level of analysis provided in the Draft SPEIR, additional site-specific investigation would be required once an individual CIPP or O&M project is proposed for construction and an alignment (or site plan) is selected. However, for the purposes of analysis, the City has considered this issue a potentially significant impact and therefore, has proposed mitigation to reduce the potential impact to a level less than significant. Mitigation Measure HAZ-1 is proposed to address the discovery of potential hazardous materials, including soil vapor intrusion risks, during construction. Additionally, once project-specific details are available, the location and extent of any known areas of groundwater or soil contamination (as documented in Figure 4.5-2) in proximity to the improvements would be determined and avoided to the extent feasible. If these areas cannot be avoided, then a plan to remediate the contamination and properly dispose of the contaminated material would be implemented.

In order to address the potential occurrence of hazardous materials, and in response to this comment, the City has modified Mitigation Measure HAZ-1 as follows:

HAZ-1: Halt Construction Work if Potentially Hazardous Materials are Encountered. All construction contractors shall immediately stop all surface or subsurface activities in the event that potentially hazardous materials are encountered, an odor is identified, or considerably stained soil is visible. Contractors shall follow all applicable local, state, and federal regulations regarding discovery, response, disposal, and remediation for hazardous

materials encountered during the construction process. These requirements shall be included in the contractor specifications.

If any hazardous materials, waste sites, or vapor intrusion risks are identified prior to or during construction, a qualified professional, in consultation with appropriate regulatory agencies, will develop and implement a plan to remediate the contamination and properly dispose of the contaminated material.

If material imports are proposed, the contractor shall furnish the City will appropriate documentation certifying that the imported materials are free of contamination.

Comment 1-6 Response

Comment noted. Please refer to Mitigation Measure HWQ-1. Mitigation Measure HWQ-1 is proposed, which would require a project-specific water quality protection strategy based on the risk of individual projects covered under the CSMP and relative vulnerability of the affected receiving water(s). This measure specifically addresses dewatering and hydrostatic testing during construction.

Comment 1-7 Response

The CSMP would be implemented in an area that is generally devoid of agricultural uses. Although agricultural uses are no longer present within much of the City's service area, these uses may occur on the fringe and in proximity to one or more Category 2 (Cross Country) projects. Compliance with Mitigation Measure HAZ-1 would reduce the potential hazards associated with encountering residual pesticides during construction to a level less than significant.

Comment 1-8 Response

During the preliminary design of the project-specific improvements contemplated under the CSMP, the City would avoid known hazardous material and waste sites, as documented in Figure 4.5-2 of the Draft SPEIR. Compliance with Mitigation Measure HAZ-1 would reduce the potential hazardous materials impact associated with encountering polychlorinated bisphenols (PCBs) during construction to a level less than significant.

Comment 1-9 Response

Comment noted. Mitigation Measure HAZ-1 is proposed to address the potential discovery of hazardous materials or wastes during construction thereby reducing this potential impact to a level of less than significant.

Comment 1-10 Response

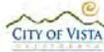
Mitigation Measure HAZ-1 has been revised to address DTSC's comments relating to the potential import of hazardous materials or wastes. Please refer to report to comment 1-5.

Comment 1-11 Response

Comment noted; Mitigation Measures HAZ-1 and HAZ-2 are proposed to address concerns related to the encountering of hazardous materials or wastes during demolition and construction. If documented, the contractor would be required to have a qualified professional investigate the source



of contamination, propose a remediation plan, and notify the appropriate regulatory agencies, such as SDCDEH.



2.3.2 Comment Letter 2 – County of San Diego, Planning & Development Services



County of San Diego

MARK WARDLAW
DIRECTOR

PLANNING & DEVELOPMENT SERVICES
5510 OVERLAND AVENUE, SUITE 310, SAN DIEGO, CA 92123
(858) 694-2962 • Fax (858) 694-2555
www.sdcountry.ca.gov/pds

September 12, 2017

Elmer Alex
Principal Engineer
City of Vista Engineering Department
200 Civic Center Drive
Vista, CA 92804

Via e-mail: ealex@cityofvista.com

RESPONSE TO COMMENTS ON THE NOTICE OF AVAILABILITY OF A DRAFT SUPPLEMENTAL PROGRAM ENVIRONMENTAL IMPACT REPORT FOR THE CITY OF VISTA'S AND BUENA SANITATION DISTRICT 2017 COMPREHENSIVE SEWER MASTER PLAN

Dear Mr. Alex,

The County of San Diego (County) reviewed the City of Vista's (City) Notice of Availability of a Draft Supplemental Program Environmental Impact Report (SPEIR) for the 2017 Sewer Master Plan dated July 31, 2017 (Project).

The County appreciates the opportunity to review the Project, and offers the following comments for your consideration. Please note that none of these comments should be construed as County support for this Project.

TRANSPORTATION/TRAFFIC

- 1. Any pavement, curb/gutter/sidewalk, culverts, utilities, traffic control-related infrastructure, or any other infrastructure within the County-maintained road right-of-way that is damaged by the Project shall be replaced to its original condition or better to the satisfaction of the County Department of Public Works (DPW).

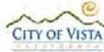
2-1

WATERSHED PROTECTION PROGRAM

- 1. The SPEIR discusses compliance with the City's Jurisdictional Runoff Management Program (JRMP). The Project span both the City and the unincorporated county. Therefore the Project has the potential to generate stormwater impacts on adjacent private parcels located within the County's jurisdiction. The County recommends the SPEIR be revised to cite compliance with the County's regulations (where applicable), and update SPEIR Section 4.6.3 Regulatory Framework – Regional to consider the following items:
 - a. Compliance with the San Diego Municipal Storm Water Permit Order No. R9-2013-0001, (as amended by Order Nos. R9-2015-0001 and R9-2015-0100). The Project may consider implementing permanent Site Design, Source Control, Pollutant Control, and Hydro-modification Management in accordance with the County's BMP Design Manual.
 - b. Construction BMPs and associated plans for conformance with the County's Grading Ordinance, Watershed Protection Ordinance and State of California's Construction General Permit.

2-2

2-3



Mr. Alex
September 12, 2017
Page 2 of 2

- 2. Section 4.6.2 Existing Conditions – Hydrology describes the hydrologic boundaries of the region, and the paragraph concludes by citing a figure (Page 4.6-1). This missing figure should be added, and the citation should be revised to cite the new figure number. 2-4

VECTOR CONTROL

- 1. The Vector Control Program (VCP) respectfully requests that the design features described in the SPEIR address potential impacts from possible mosquito breeding sources created by the sewer projects and that the projects be designed and constructed in a manner to minimize those impacts. Specifically, ensure construction-related depressions created by grading activities, vehicle tires, and excavation does not result in depressions that will hold standing water. In addition, ensure BMPs and other structures do not create a potential mosquito breeding source. Any area that is capable of accumulating and holding at least ½ inch of water for more than 96 hours can support mosquito breeding and development. Finally, if habitat remediation is required for the projects, the design should be consistent with guidelines for preventing mosquito habitat creation. 2-5
- 2. For your information, the County's Guidelines for Determining Significance for Vectors can be accessed at: http://www.sandiegocounty.gov/content/dam/sdc/pds/docs/vector_guidelines.pdf
The California Department of Public Health Best Management Practices for Mosquito Control in California is available at:
<http://www.cdph.ca.gov/HealthInfo/discond/Documents/BMPforMosquitoControl07-12.pdf> 2-6
- 3. The VCP appreciates the opportunity to participate in the environmental review process for this Project. If you have any questions regarding these comments, please contact Daniel Valdez at 858-688-3722 or by e-mail at Daniel.Valdez@sdcounty.ca.gov.

The County looks forward to receiving future documents and/or notices related to this Project and providing additional assistance at your request. If you have any questions regarding these comments, please contact Timothy Vertino at 858-495-5468 or by e-mail at timothy.vertino@sdcounty.ca.gov.

Sincerely,



MARY KOPASKIE BROWN, AICP, MCIP
Chief, Advance Planning Division
Planning & Development Services

E-mail cc: Darren Gretler, Chief of Staff, Board of Supervisors, District 5
Vincent Kattoula, CAO Staff Officer, LUEG
Jeff Kashak, Planner, DPW
Erin Jensen, Administrative Analyst, DEH

Response to Letter 2 - County of San Diego, Planning & Development Services

Comment 2-1 Response

The City notes San Diego County's requirement regarding improvements within the County's right-of-way. Mitigation Measure TR-1 is proposed to address the County's concern and will be conditioned in future project specifications.

Comment 2-2 Response

The City appreciates the regulatory updates provided in the County's comment and has updated the Draft SPEIR to identify the amended Orders and sections of the County Best Management Practice (BMP) Design Manual. These revisions do not change any of the significance determinations or mitigation measures identified in the Draft SPEIR.

The third paragraph on page 4.6-4 of the Draft SPEIR is revised as follows:

The Regional MS4 Permit (Order No. R9-2013-0001) (as amended by Order Nos. R9-2015-0001 AND R9-2015-0100) was adopted on May 8, 2013 to cover the San Diego County Copermitees. The City's Jurisdictional Runoff Management Program (JRMP) document describes strategies and activities the City will implement to comply with the permit. In 2017, the City updated its JRMP to be consistent with RWQCB-approved changes made to the Water Quality Improvement Plan (WQIP) for the Carlsbad Watershed Management Area (WMA). CSMP-related improvements within the County's right-of-way would be subject to the County's BMP Design Manual.

Comment 2-3 Response

The City notes the County's comments regarding the regulatory requirements for project-related construction under the CSMP. These requirements are identified in Mitigation Measure HWQ-1 of the Draft SPEIR. Reference to the County's Grading Ordinance is now included in Mitigation Measure HWQ-1.

HWQ-1- Assess Project Risk, Receiving Water Vulnerability, and Implement a Water Quality Protection Strategy: The construction contractor will assess the receiving water vulnerability and develop a SWPPP that complies with the requirements of the NPDES General Construction Permit (Order 2009-0009-DWQ as amended by 2010 0014-DWQ and 2012-006-DWQ) based on the project-specific risk level subject to the City Engineer's approval. The SWPPP shall identify specific actions and BMPs relating to the prevention of stormwater pollution from project-related construction sources by identifying a practical sequence for site restoration, BMP implementation, contingency measures, responsible parties, and agency contacts. The SWPPP shall reflect localized surface hydrological conditions, local jurisdictional requirements, and shall be reviewed and approved by the City Engineer prior to commencement of work.

The SWPPP shall be prepared by a qualified SWPPP developer with BMPs selected to achieve maximum pollutant removal and that represent the best available technology that is economically achievable. BMPs for soil stabilization and erosion control practices and sediment control practices will also be required. Performance and effectiveness of these BMPs shall be determined either by visual means where applicable (i.e., observation of above-normal sediment release), or by actual water sampling in cases where verification of contaminant reduction or elimination, (e.g., inadvertent petroleum release) is required to determine adequacy of the measure.

The SWPPP shall also address other project-specific water quality threats, as required for individual improvements including but not limited to, temporary dewatering, hydrostatic testing, and other resources permits as required under the Federal Clean Water Act, County Grading Ordinance, and State Fish and Game Code, as applicable. Construction and post-construction BMPs will be designed to avoid the creation of standing water and potential mosquito breeding habitat.

Comment 2-4 Response

Section 4.6 of the Draft SPEIR incorporates by reference Section 4.7 of the 2008 Program EIR and Figure 4.7-1 of the PEIR, which illustrates the watershed hydrology for the Study Area.

The third paragraph on page 4.6-1 of the SPEIR is revised to remove reference to a new figure.

The Study Area is located within the San Diego Hydrologic Region (SDHR). Hydrologic conditions as described in the 2008 PEIR remains similar in 2017, including the descriptions and hydrologic boundaries of the Agua Hedionda Creek, Buena Vista Creek, San Luis Rey River, and San Marcos Creek watersheds. Figure

Comment 2-5 Response

The City acknowledges the need to avoid the creation of potential mosquito breeding habitat as part of the installation of construction and post-construction water quality BMPs. Mitigation Measure HWQ-1 has been revised to address this comment. Please refer to Response 2-3 for the revised mitigation measure. The design of any habitat mitigation as part of future project-level permitting would address concerns related to potential mosquito breeding habitat would be addressed at that time.

Comment 2-6 Response

The City appreciates the informational sources and reference materials identified in the comment regarding public health BMPs related to vector control.



2.3.3 Comment Letter 3 – U.S. Fish and Wildlife Service



United States Department of the Interior

FISH AND WILDLIFE SERVICE
Ecological Services
Carlsbad Fish and Wildlife Office
2177 Salk Avenue, Suite 250
Carlsbad, California 92008



In Reply Refer To:
FWS-SDG-08B0876-17CPA0331

September 13, 2017
Sent by Email

Mr. Elmer Alex
Principal Planner
City of Vista
200 Civic Center Drive
Vista, California 92084-6275

Subject: Comments on the Draft Supplemental Environmental Impact Report for the City of Vista and Buena Sanitation District 2017 Comprehensive Sewer Master Plan

Dear Mr. Alex:

The U.S. Fish and Wildlife Service (Service) reviewed the Notice of Availability of a Draft Supplemental Environmental Impact Report (DSEIR) for the City of Vista and Buena Sanitation District 2017 Comprehensive Sewer Master Plan. The comments and recommendations provided are based on our knowledge of sensitive and declining vegetation communities in San Diego County; and our participation in the Multiple Habitat Conservation Program (MHCP) and the cities of Vista, Oceanside, and San Marcos draft MHCP Subarea Plans (SAPs); and the City of Carlsbad's Habitat Management Plan (HMP). We offer our comments and recommendations to assist the City of Vista (City) in avoiding, minimizing, and adequately mitigating project-related impacts to biological resources and to ensure that the project is consistent with the MHCP, the cities' draft SAPs, and City of Carlsbad's HMP.

3-1

The primary concern and mandate of the Service is the protection of fish and wildlife resources and their habitats. The Service has legal responsibility for the welfare of migratory birds, anadromous fish, and threatened and endangered animals and plants occurring in the United States. The Service is also responsible for administering the Federal Endangered Species Act of 1973 (Act), as amended (16 U.S.C. 1531 *et seq.*), including habitat conservation plans (HCP), such as the City of Carlsbad's HMP, developed under section 10(a)(1) of the Act.

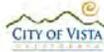
3-2

The Service has the following comments on the DSEIR:

1. Conservation Measure BIO-1 requires pre-construction surveys if construction activities will occur during the bird breeding season (January 15 to September 15). If nesting activities are observed within 200 feet of the proposed work area, construction will be delayed within a 300-foot buffer from the active nest. We recommend that this measure be changed to read:

3-3

If project construction (other than clearing and grubbing of sensitive habitats) is necessary during the bird breeding season, (January 15 to September 15, or sooner



Mr. Elmer Alex, Principal Planner (FWS-SDG-08B0876-17CPA0331)

2

if a qualified biologist demonstrates to the satisfaction of the Service that all nesting is complete), a qualified biologist will conduct pre-construction surveys in the adjacent habitat to determine the location of any active bird nests in the area, including raptors and ground nesting birds. The survey should begin not more than 3 days prior to the beginning of construction activities. The Service will be notified if any nesting birds are found. During construction, no activity will occur within 300 feet of active nesting territories (500 feet for raptors or listed species), unless measures are implemented to minimize the noise and disturbance to those adjacent birds. Exceptions to this measure include cases where surveys confirm that adjacent habitat is not occupied or where noise studies confirm that construction noise levels are below 60 dBA hourly Leq along the edge of adjacent habitat. If construction activities are not completed prior to the breeding season and noise levels exceed this threshold, noise barriers will be erected to reduce noise impacts to occupied habitat to below 60 dBA hourly Leq and/or the culpable activities will be suspended.

3-3 cont.

2. BIO-2 should be amended to state that impacts to federally listed species that are covered by the City of Carlsbad's HMP will be authorized under the HMP if projects are consistent with the HMP.
3. BIO-3 should be amended, or a new mitigation measure should be included, to state that all vegetation impacts will be mitigated consistent with the draft SAPs for the jurisdiction(s) where the impacts occur, and the City of Carlsbad HMP for impacts in the City of Carlsbad.

3-4

3-5

We appreciate the opportunity to comment on this DSEIR. We are hopeful that further consultation between you and us will ensure the protection we find necessary for the biological resources that could be affected by this project. If you have questions or comments regarding this letter, please contact Janet Stuckrath of the Service (760) 431-9440.

Sincerely,

DAVID
ZOUTENDYK

Digitally signed by
DAVID ZOUTENDYK
Date: 2017.09.13
15:30:45 -07'00'

for Karen A. Goebel
Assistant Field Supervisor

Response to Letter 3 – U. S. Fish and Wildlife Service

Comment 3-1 Response

The City appreciates the comments and recommendations offered by the U. S. Fish and Wildlife Service (USFWS) to maintain future project consistency, as proposed under the CSMP, with the Multiple Habitat Conservation Program (MHCP), the MHCP Sub Area Plans (SAPs), and Carlsbad Habitat Management Plan (HMP). These plans are referred to on page 4.2-31 of the Draft SPEIR.

Comment 3-2 Response

The City notes USFWS's responsibility for administering the Federal Endangered Species Act (FESA), as amended, and the habitat conservation plans, such as Carlsbad's HMP, developed in accordance with Section 10 of the FESA. USFWS's regulatory authority over future projects contemplated under the CSMP is noted in Table 3-6 of the Draft SPEIR.

Comment 3-3 Response

The City appreciates the mitigation recommendations offered by USFWS for Mitigation Measure BIO-1. The City has integrated some of the recommendations provided as shown below. Mitigation Measure BIO-1 applies to Category 1, 2, 3, and 4 improvements; however, Category 1 improvements would occur within urbanized areas where the ambient noise levels may already be in excess of 60 dAB Leq. For that reason, additional measures, such as those recommended, may be incorporated on an improvement-specific basis in coordination with a qualified biologist and the implementation of Mitigation Measure BIO-2.

BIO-1- MBTA Nest Avoidance: If construction activities occur between January 15 and September 15, a preconstruction survey (within 7 days prior to construction activities) shall be conducted by a qualified biologist to determine if active nests are present within or adjacent to the area proposed for development in order to avoid the nesting activities of breeding birds/raptors. The results of the surveys shall be submitted to the City (and made available to the Wildlife Agencies, upon request) prior to initiation of any construction activities.

If nesting activities within 200 feet of the proposed work area are not detected, construction activities may proceed. If nesting activities are confirmed, construction activities shall be delayed within an appropriate buffer (e.g., 300-feet to 500 feet contingent on the species observed) from the active nest until the young birds have fledged and left the nest or until the nest is no longer active as determined by a qualified biologist. The size of the appropriate buffer shall be determined by a qualified biologist based on field conditions. The results of all biological monitoring shall be submitted to the City (and made available to the Wildlife Agencies, upon request).

Comment 3-4 Response

The City has incorporated the recommended addition to Mitigation Measure BIO-2. The revised mitigation measure is provided below.

BIO-2 - Habitat Assessment and Focused Surveys for Special-Status Species and Sensitive Habitats. Prior to the issuance of project-specific construction documents for CIP Capacity and Condition Projects (Cross-County) and Out-of-Service Access Roads, a habitat assessment shall be conducted by a qualified biologist to determine the potential for

special-status species to occur within the anticipated construction area. If the habitat assessment identifies potentially suitable habitat for threatened and endangered species, focused surveys shall be conducted by a qualified biologist to determine their presence or absence. Sensitive vegetation communities shall be documented as part of the habitat assessment.

If threatened and endangered species are observed/detected, project specific mitigation measures shall be developed to mitigate impacts on threatened and endangered species to below a level of significance. Specific measures shall include, but are not limited to:

- Early consultation with the wildlife agencies (i.e., USFWS, California Department of Fish and Wildlife [CDFW]) for ESA- and CESA-listed species to ensure avoidance to the greatest extent feasible and appropriate “take” authorization.
- Provision of a qualified biological monitor on site during all earth disturbing activities to ensure avoidance of impacts on listed species.
- The use of fencing or flagging to identify sensitive areas that support the listed species and to ensure that the areas are protected from direct and indirect impacts.
- Implementation of noise reduction measures (e.g., noise attenuation structures) within habitats occupied by listed avian species and noise monitoring during the breeding season.
- Identification and translocation of listed plant species populations in accordance with best practices.
- Impacts to federally-listed species covered by the City of Carlsbad’s HMP will be required to be consistent with those authorized under the HMP and coordinated with the City of Carlsbad and USFWS.
- Avoidance of the breeding seasons for listed species such as:
 - Arroyo toad—March 1 to September 30
 - Least Bell’s vireo—March 1 to September 30
 - Willow flycatcher (all subspecies)—March 1 to September 30
 - Coastal California gnatcatcher—March 1 to September 30

If no threatened or endangered species are observed or detected during focused surveys but potentially suitable habitat for non-threatened and non-endangered plant or wildlife species is present, a site-specific determination shall be made as to whether the potential impacts are significant based on the degree of threat and the size of the population/occupied habitat to be impacted.

Comment 3-5 Response

The City notes USFWS’s request for additional reference to the draft SAPs and Carlsbad HMP in Mitigation Measure BIO-3. Additional mitigation measures for vegetation impacts to species covered by the City of Carlsbad’s HMP would be applied at the project level, as authorized under the HMP and coordinated with the City of Carlsbad and USFWS. As USFWS is aware, the City of Vista is not actively preparing a draft SAP at this time. Impacts to vegetation in the city that cannot be avoided would be mitigated per USFWS protocols in effect at the time permit approvals are required.



2.3.4 Comment Letter 4 – Rincon Band of Luiseno Indians

From: Erica Martinez [mailto:emartinez@RinconTribe.org]
Sent: Thursday, September 14, 2017 4:26 PM
To: Elmer Alex <ealex@ci.vista.ca.us>
Cc: Destiny Colocho <DColocho@RinconTribe.org>
Subject: Comprehensive Sewer Master Plan

Dear Mr. Alex,

This letter is written on behalf of the Rincon Band of Luiseno Indians. We have received your notification regarding the Comprehensive Sewer Master Plan Project Draft Supplemental Program Environmental Impact Report and we thank you for the opportunity to consult on this project.

4-1

Embedded in the Luiseno Territory are Rincon's history, culture and identity. The project is within the Luiseno Aboriginal Territory of the Luiseno people. Rincon's comments/questions are as follows:

1. CULT-2 Project –Specific Archaeological Survey is states:

In addition, the City shall request a written response from the San Luis Rey Band of Mission Indians (SLR Band) (a tribe traditionally affiliated with the site) regarding whether the site of the 2017CSMP improvement project may [potentially affect Native American resources.

4-2

Rincon would like for the same request to be made to the Rincon Band, as the 2017 CSMP improvement project may potentially affect Luiseno resources. Rincon requests that the language of Mitigation Measure CULT-2 reflect Rincon's involvement.

2. CULT-3 –Archaeological Monitoring states:

The monitoring shall consist of the full-time presence of a Qualified Archaeologist and a TCA (traditionally and culturally affiliated) Native American Monitor, and the monitoring activities shall be identified and defined in a Pre-Excavation Agreement between the City's Engineering Department and the San Luis Rey Band.

4-3

Rincon requests the opportunity to provide monitoring services for some of the 2017 CSMP improvement projects. Therefore, we would like the Pre-Excavation Agreement to include the Rincon Band and that the language of CULT-3 be revised to reflect this.

This concludes Rincon's comments regarding the Draft SPEIR.

We look forward to hearing from the City of Vista. If there are any questions or concerns please do not hesitate to contact our office at (760) 297-2635 or via email at dcolocho@rincontribe.org at your convenience.

Thank you for the opportunity to protect and preserve our cultural assets.

Erica A. Ortiz-Martinez
Administrative Assistant

For Destiny Colocho, Cultural Resources Manager

Cultural Resources Department
Rincon Band of Luiseño Indians
1 West Tribal Road | Valley Center, CA 92082
Office: 760-297-2635
Fax: 760-692-1498
Email: emartinez@rincontribe.org

Response to Letter 4 – Rincon Band of Luiseno Indians

Comment 4-1 Response

The comment states, in part, that the Rincon Band received the notification regarding the subject Supplemental Program EIR, and thanks the City for the “*opportunity to consult*” on this project. As a point of clarification, the City notes that the notification that was sent was prepared pursuant to Public Resources Code (PRC) § 21091 and State CEQA Guidelines Section 15087, not PRC § 21080.3.1(b), (d), and (e).

Comment 4-2 Response

Comment is noted. The mitigation measures, including the referenced CULT-2, were developed pursuant to PRC § 21080.3.1(b), 21080.3.2(a), and 21082.3 (a). If additional CEQA documentation per PRC § 21080.3.1 (b) is required, the Rincon Band will be notified.

Comment 4-3 Response

Comment is noted. Please see Responses 4-1 and 4-2, above.



2.3.5 Comment Letter 5 - San Luis Rey Band of Mission Indians

SAN LUIS REY BAND OF MISSION INDIANS

1889 Sunset Drive • Vista, California 92081
760-724-8505 • FAX 760-724-2172
www.slrmissionindians.org

August 3, 2017

John Hamilton
Environmental Planner
Planning Division
Community Development Department
City of Vista
200 Civic Center Drive
Vista, CA 92084-6275

VIA ELECTRONIC MAIL
jhamilton@cityofvista.com

**RE: COMMENTS ON THE DRAFT SUPPLEMENTAL ENVIRONMENTAL
IMPACT REPORT FOR THE VISTA COMPREHENSIVE SEWER
MASTER PLAN (SCH NO. 2007091072)**

Dear Mr. Hamilton:

We, the San Luis Rey Band of Mission Indians ("Tribe"), have received and reviewed the City of Vista's ("City's") Draft Supplemental Environmental Impact Report ("DSEIR") and all of its supporting documentation as it pertains specifically to the protection and preservation of Luiseño tribal cultural resources that may be located within the parameters of the Comprehensive Sewer Master Plan's ("Plan's") multiple areas of impact.

After our review of the DSEIR, the Tribe is satisfied and concurs with the proposed tribal cultural resource mitigation measures (CULT-2, CULT-3 and CULT-5) contained within the DSEIR.

The San Luis Rey Band of Mission Indians appreciates this opportunity to provide the City of Vista with our comments on the Comprehensive Sewer Master Plan. As stated above, the Tribe is satisfied and concurs with the mitigation measures for tribal cultural resources as proposed in the DSEIR. As always, we look forward to working with the City to guarantee that the requirements of the CEQA are rigorously applied to this Plan and all projects. We thank you for your continuing assistance in protecting our invaluable Luiseño tribal cultural resources.

5-1

Sincerely,

Merri Lopez-Keifer
Chief Legal Counsel



Response to Letter 5 – San Luis Rey Band of Mission Indians

Comment 5-1 Response

The City notes the San Luis Rey Band of Mission Indians concurrence with the proposed Mitigation Measures CULT-2, CULT-3 and CULT-5, as contained within the Draft SPEIR.

3 Minor Modifications to the Draft Supplemental Program EIR

3.1 Introduction

This chapter reflects the minor modifications to the Draft SPEIR (including related revisions to the 2017 CSMP) that have resulted from comments received during the 45-day public review of the Draft SPEIR or that were required for purposes of clarifications. These minor modifications do not alter the conclusions of the environmental analysis such that new significant environmental impacts have been identified, nor do they constitute significant new information. The minor modifications to the Draft SPEIR are provided for each EIR chapter and are indicated in strikeout and underline format, and with the page number from the Draft SPEIR they would replace. This chapter is intended to be used in conjunction with the Draft SPEIR.

INTRODUCTION

No changes or revisions are proposed.

ENVIRONMENTAL SETTING

No changes or revisions are proposed.

DESCRIPTION OF THE COMPREHENSIVE SEWER MASTER PLAN

The first three paragraphs on page 3-15 of the Draft SPEIR under Section 3.5, Proposed Comprehensive Sewer Master Plan, are revised as follows:

Similar to the 2008 SMPU, the proposed 2017 CSMP includes the rehabilitation or replacement of ductile iron pipe (DIP) and non-vitrified clay pipe (VCP) or polyvinyl chloride (PVC) pipes ~~along with pipes over 45 years in age~~ based on risk. ~~City/District standards also require a replacement and upsizing of all 6-inch pipes to 8-inch pipes for the purpose of providing maintenance access only, due to the size limitations of cleaning and camera equipment.~~ Under the proposed CSMP, up to approximately 85,045 linear feet (or 16.1 miles) of existing conveyance pipe is proposed for rehabilitation or replacement with no corresponding increase in capacity. These improvements reflect the progress made by the City since the adoption of the 2008 SMPU, which identified up to 451,624 (or 85.5 miles) of condition-related rehabilitation or replacement. Figure 3-9 illustrates the conveyance improvements proposed in the 2008 SMPU, which are no longer proposed as part of the 2017 CSMP.

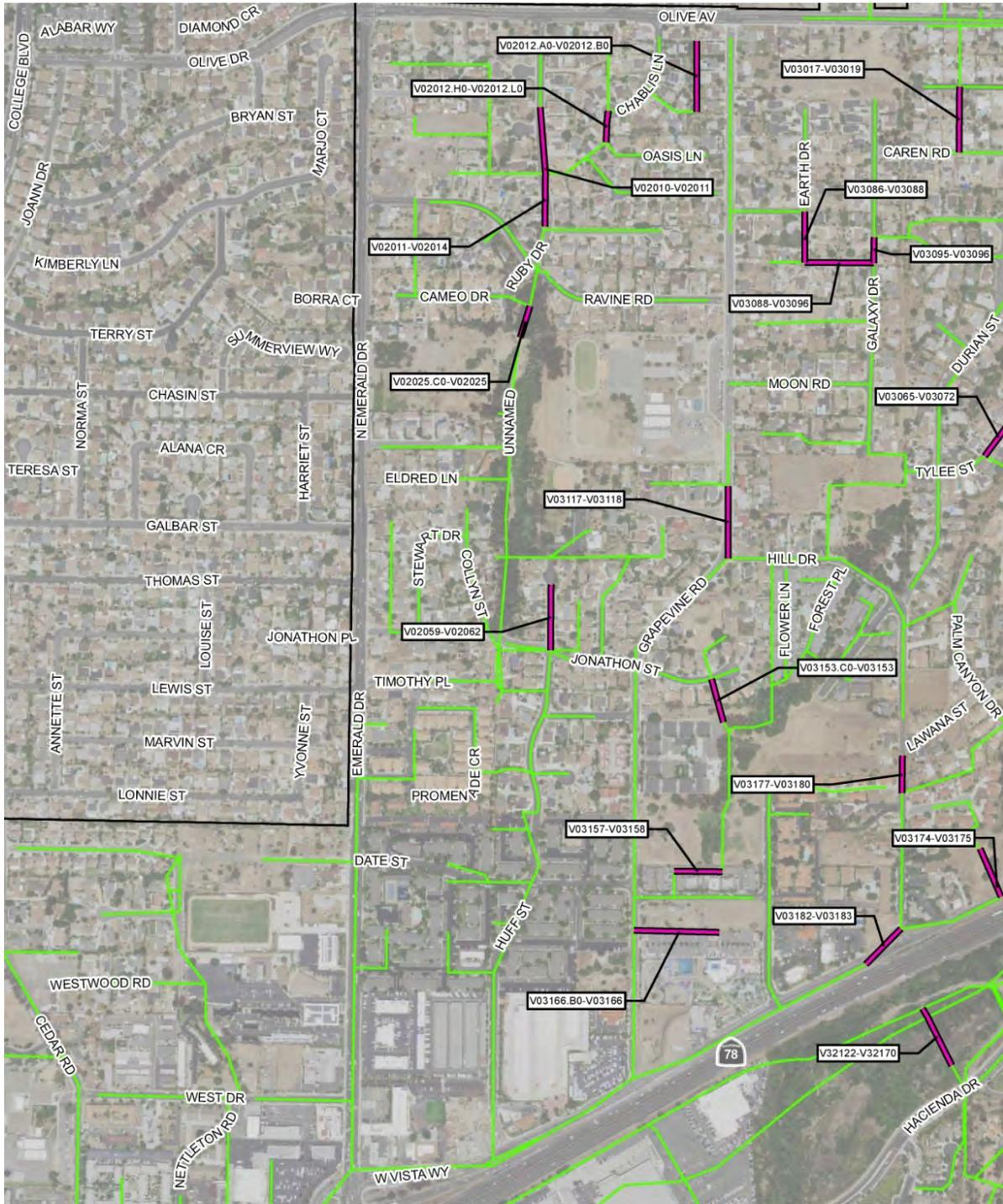
As part of the proposed CSMP, a useful life assessment and analysis was performed on portions of the City's existing sanitary sewer collection system ~~constructed between the 1920s and 1980s.~~ All conveyance pipelines installed after 1990 are assumed to be in good operating condition. The analysis included an evaluation of televised inspection data, which includes approximately 92 percent of the gravity sewer system. ~~the average life cycle of the various pipe materials that constitute the City's collection system including concrete, VCP, and reinforced concrete pipe (RCP) that were installed between the 1920s through the 1960s. The analysis was also extended to include pipe materials installed from the 1970s and through the 1980s that included primarily VCP and polyvinylchloride (PVC) pipe.~~

To estimate the potential rehabilitation or replacement improvements for the City's collection system, a remediation decision logic was applied to the televised inspection data ~~each decade was assessed based on system characteristics including age, pipe size, and material and the City's rehabilitation rating included in the database. Based on the average life cycle for each type of material, an estimated timeline was projected for replacement and rehabilitation improvements.~~ The City's goal is to minimize total pipeline replacement and maximize pipeline rehabilitations to minimize impacts and ~~reduce cost system inflow and infiltration (I/I).~~ Accordingly, the ~~projections assume~~ analysis identifies that, of the total length of pipeline identified, ~~90~~ 80 percent would be rehabilitated and ~~40~~ 20 percent would be replaced. Appendix B includes a ~~summary of the length of pipes by diameter~~ estimated for replacement or rehabilitation. Condition-related CIP improvements proposed as part of the CSMP are illustrated in Figure 3-10, Figure 3-11, Figure 3-12, Figure 3-13, Figure 3-14, Figure 3-15, Figure 3-16 and Figure 3-17.

Figures 3.13A and 3.14A are revised to reflect the minor addition of 10 condition improvements projects and the final 2017 CSMP. These minor additions are listed in Appendix B and all occur in hardscape environments.



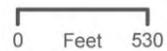
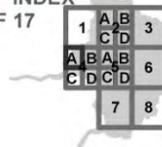
Figure 3-13A. Revised, Condition-Related Projects under the Proposed 2017 CSMP (Map 7)



LEGEND

- City of Vista
- Buena Sanitation District
- Sanitary Sewer Collection System
- CIP Condition Improvements Near Term

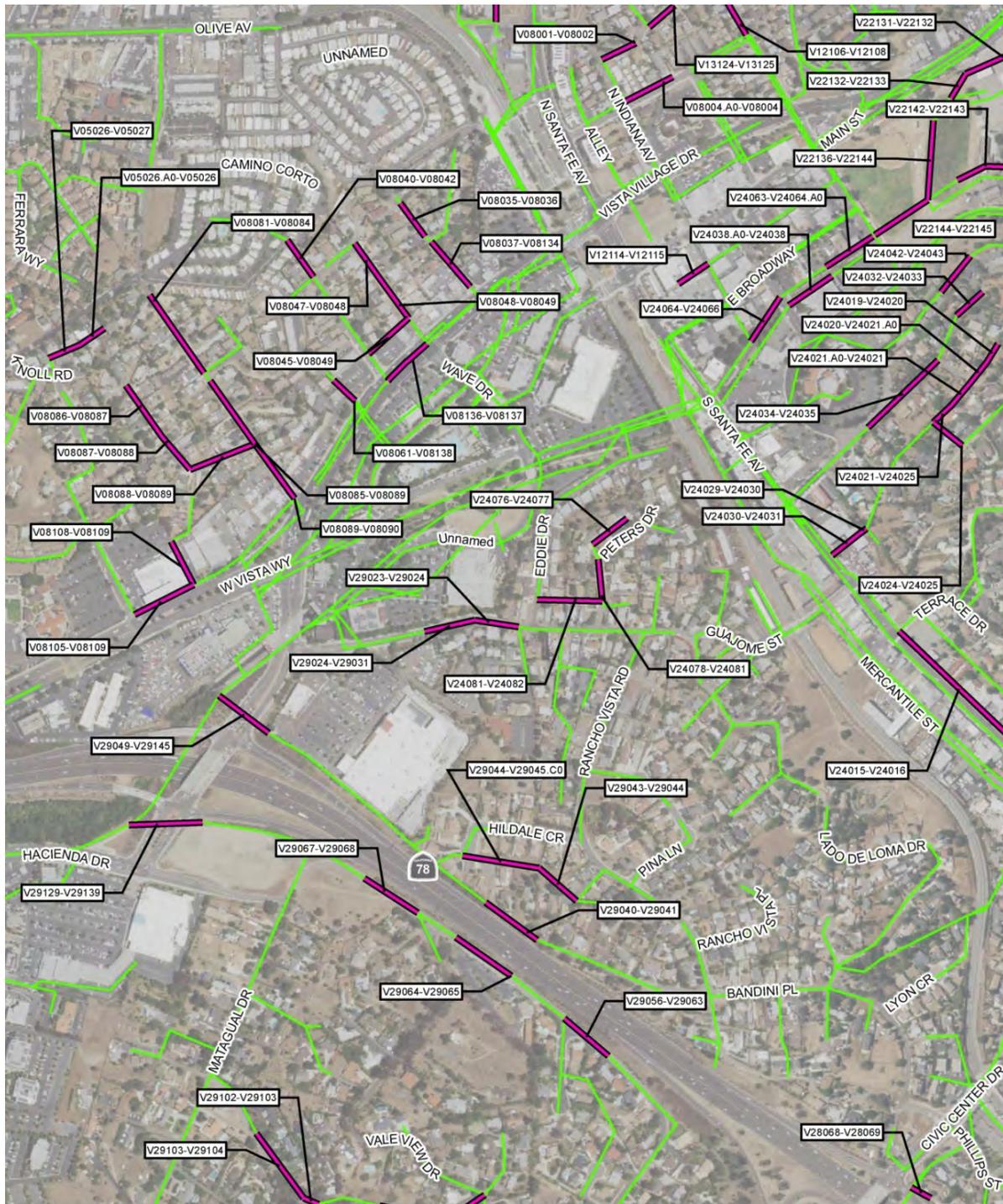
MAP INDEX
7 OF 17



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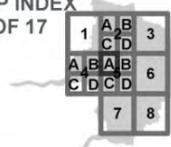
Figure 3-14A. Revised, Condition-Related Projects under the Proposed 2017 CSMP (Map 11)



LEGEND

- City of Vista
- Buena Sanitation District
- Sanitary Sewer Collection System
- CIP Condition Improvements Near Term

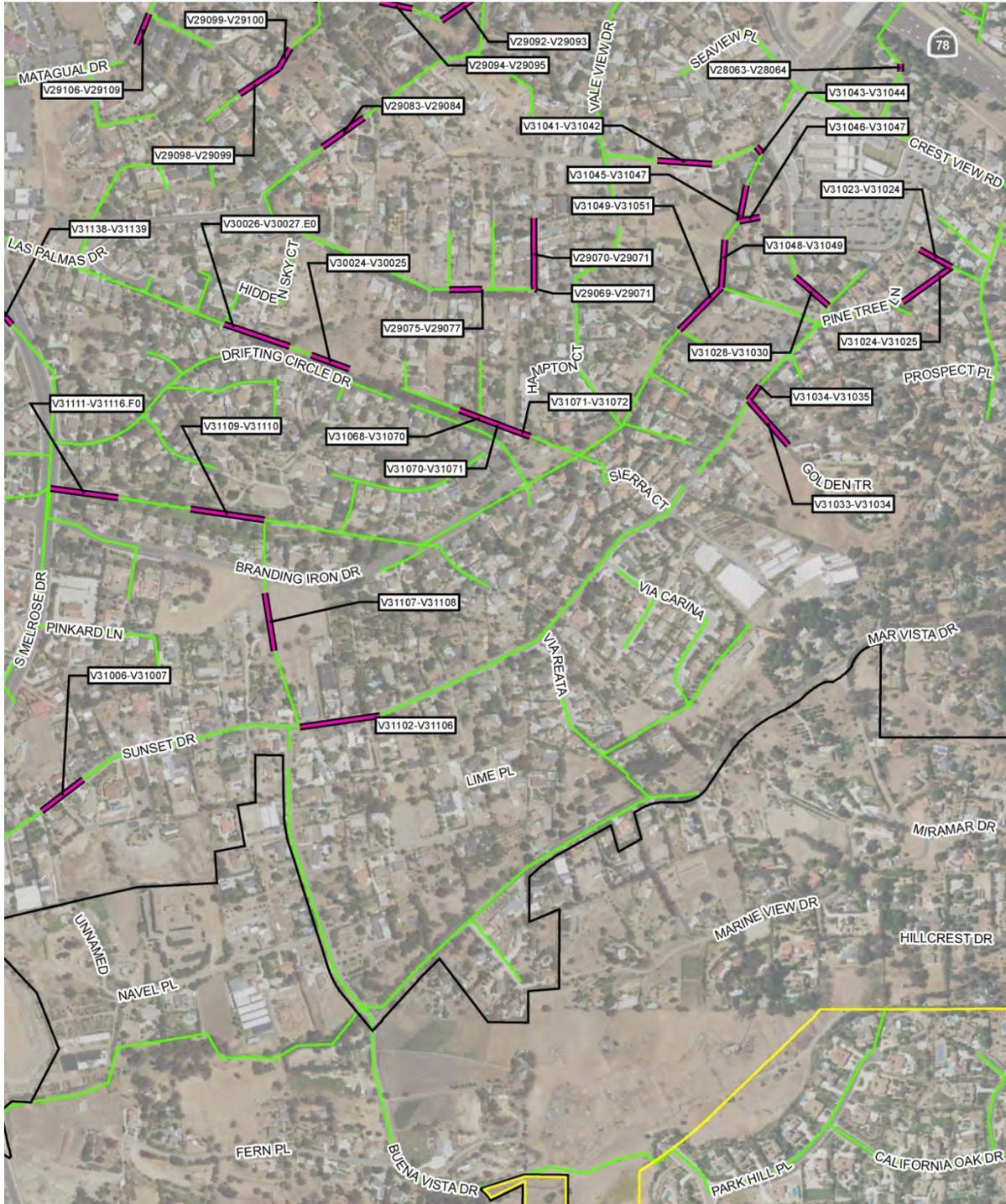
MAP INDEX
11 OF 17



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Figure 3-14C. Revised, Condition-Related Projects under the Proposed 2017 CSMP (Map 13)



LEGEND

- City of Vista
- Buena Sanitation District
- Sanitary Sewer Collection System
- CIP Condition Improvements Near Term

MAP INDEX
13 OF 17

1	A	B	3
	C	D	
A	B	B	6
C	D	C	
7			8



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4.0 INTRODUCTION

No changes or revisions are proposed.

4.1 AIR QUALITY

No changes or revisions are proposed.

4.2 BIOLOGICAL RESOURCES

Mitigation Measure BIO-1 on page 4.2-46 of the Draft SPEIR is revised as follows:

BIO-1- MBTA Nest Avoidance: If construction activities occur between January 15 and September 15, a preconstruction survey (within seven days prior to construction activities) shall be conducted by a qualified biologist to determine if active nests are present within or adjacent to the area proposed for development in order to avoid the nesting activities of breeding birds/raptors. The results of the surveys shall be submitted to the City (and made available to the Wildlife Agencies, upon request) prior to initiation of any construction activities.

If nesting activities within 200 feet of the proposed work area are not detected, construction activities may proceed. If nesting activities are confirmed, construction activities shall be delayed within an appropriate buffer (e.g., 300-feet to 500 feet contingent on the species observed) from the active nest until the young birds have fledged and left the nest or until the nest is no longer active as determined by a qualified biologist. The size of the appropriate buffer shall be determined by a qualified biologist based on field conditions. The results of all biological monitoring shall be submitted to the City (and made available to the Wildlife Agencies, upon request).

Mitigation Measure BIO-2 on page 4.2-47 of the Draft SPEIR is revised as follows:

BIO-2 - Habitat Assessment and Focused Surveys for Special-Status Species and Sensitive Habitats. Prior to the issuance of project-specific construction documents for CIP Capacity and Condition Projects (Cross-County) and Out-of-Service Access Roads, a habitat assessment shall be conducted by a qualified biologist to determine the potential for special-status species to occur within the anticipated construction area. If the habitat assessment identifies potentially suitable habitat for threatened and endangered species, focused surveys shall be conducted by a qualified biologist to determine their presence or absence. Sensitive vegetation communities shall be documented as part of the habitat assessment.

If threatened and endangered species are observed/detected, project specific mitigation measures shall be developed to mitigate impacts on threatened and endangered species to below a level of significance. Specific measures shall include, but are not limited to:

- o Early consultation with the wildlife agencies (i.e., USFWS, CDFW) for ESA- and CESA-listed species to ensure avoidance to the greatest extent feasible and appropriate “take” authorization.
- o Provision of a qualified biological monitor on site during all earth disturbing activities to ensure avoidance of impacts on listed species.
- o The use of fencing or flagging to identify sensitive areas that support the listed species and to ensure that the areas are protected from direct and indirect impacts.

- Implementation of noise reduction measures (e.g., noise attenuation structures) within habitats occupied by listed avian species, and noise monitoring during the breeding season.
- Identification and translocation of listed plant species populations in accordance with best practices.
- Impacts to federally listed species covered by the City of Carlsbad's HMP will be required to be consistent with those authorized under the HMP and coordinated with the City of Carlsbad and USFWS.
- Avoidance of the breeding seasons for listed species such as:
 - Arroyo toad—March 1 to September 30
 - Least Bell's vireo—March 1 to September 30
 - Willow flycatcher (all subspecies)—March 1 to September 30
 - Coastal California gnatcatcher—March 1 to September 30

If no threatened or endangered species are observed or detected during focused surveys, but potentially suitable habitat for non-threatened and non-endangered plant or wildlife species is present, a site-specific determination shall be made as to whether the potential impacts are significant based on the degree of threat and the size of the population/occupied habitat to be impacted.

4.3 CULTURAL AND PALEONTOLOGICAL RESOURCES

No changes or revisions are proposed.

4.4 GREENHOUSE GASES AND ENERGY

No changes or revisions are proposed.

4.5 HAZARDS AND HAZARDOUS MATERIALS

Mitigation Measure HAZ-1 on page 4.5-14 of the Draft SPEIR is revised as follows:

HAZ-1: Halt Construction Work if Potentially Hazardous Materials are Encountered. All construction contractors shall immediately stop all surface or subsurface activities in the event that potentially hazardous materials are encountered, an odor is identified, or considerably stained soil is visible. Contractors shall follow all applicable local, state, and federal regulations regarding discovery, response, disposal, and remediation for hazardous materials encountered during the construction process. These requirements shall be included in the contractor specifications.

If any hazardous materials, waste sites, or vapor intrusion risks are identified prior to or during construction, a qualified professional, in consultation with appropriate regulatory agencies, will develop and implement a plan to remediate the contamination and properly dispose of the contaminated material.

If material imports are proposed, the contractor shall furnish the City with appropriate documentation certifying that the imported materials are free of contamination.



4.6 HYDROLOGY AND WATER QUALITY

The third paragraph on page 4.6-4 of the Draft SPEIR is revised as follows:

The Regional MS4 Permit (Order No. R9-2013-0001) (as amended by Order Nos. R9-2015-0001 AND R9-2015-0100) was adopted on May 8, 2013 to cover the San Diego County Copermittees. The City's Jurisdictional Runoff Management Program (JRMP) document describes strategies and activities the City will implement to comply with the permit. In 2017, the City updated its JRMP to be consistent with RWQCB-approved changes made to the Water Quality Improvement Plan (WQIP) for the Carlsbad Watershed Management Area (WMA). CSMP-related improvements within the County's right-of-way would be subject to the County's BMP Design Manual.

Mitigation Measure HWQ-1 on page 4.6-13 of the Draft SPEIR is revised as follows:

HWQ-1- Assess Project Risk, Receiving Water Vulnerability, and Implement a Water Quality Protection Strategy: The construction contractor will assess the receiving water vulnerability and develop a SWPPP that complies with the requirements of the NPDES General Construction Permit (Order 2009-0009-DWQ as amended by 2010 0014-DWQ and 2012-006-DWQ) based on the project-specific risk level subject to the City Engineer's approval. The SWPPP shall identify specific actions and BMPs relating to the prevention of stormwater pollution from project-related construction sources by identifying a practical sequence for site restoration, BMP implementation, contingency measures, responsible parties, and agency contacts. The SWPPP shall reflect localized surface hydrological conditions, local jurisdictional requirements, and shall be reviewed and approved by the City Engineer prior to commencement of work.

The SWPPP shall be prepared by a qualified SWPPP developer with BMPs selected to achieve maximum pollutant removal and that represent the best available technology that is economically achievable. BMPs for soil stabilization and erosion control practices and sediment control practices will also be required. Performance and effectiveness of these BMPs shall be determined either by visual means where applicable (i.e., observation of above-normal sediment release), or by actual water sampling in cases where verification of contaminant reduction or elimination, (e.g., inadvertent petroleum release) is required to determine adequacy of the measure.

The SWPPP shall also address other project-specific water quality threats, as required for individual improvements including but not limited to, temporary dewatering, hydrostatic testing, and other resources permits as required under the Federal Clean Water Act, County Grading Ordinance, and State Fish and Game Code, as applicable. Construction and post-construction BMPs will be designed to avoid the creation of standing water and potential mosquito breeding habitat.

4.7 LAND USE AND PLANNING

No changes or revisions are proposed.

4.8 NOISE AND VIBRATION

No changes or revisions are proposed.

4.9 TRANSPORTATION AND CIRCULATION

No changes or revisions are proposed.

5 EFFECTS DETERMINED NOT TO BE SIGNIFICANT

No changes or revisions are proposed.



6 ALTERNATIVES

No changes or revisions are proposed.

7 GROWTH INDUCING IMPACTS OF THE PROJECT

No changes or revisions are proposed.

8 SIGNIFICANT IRREVERSIBLE CHANGES

No changes or revisions are proposed.

9 DOCUMENT PREPARATION

No changes or revisions are proposed.

10 REFERENCES

No changes or revisions are proposed.

APPENDIX A

No changes or revisions are proposed.

APPENDIX B

Appendix B is revised to include an additional 10 condition-related improvements identified in the final 2017 CSMP. These improvements are listed below.

- V03077-V03080
- V04053-V04054
- V10057-V10058
- B04099-B04100
- V08108-V08109
- V28121-V28122
- V13122-V13123
- V25071-V25072
- V31050-V31051
- V31049-V31051

APPENDICES C THROUGH G

No changes or revisions are proposed.



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Appendix A. Mitigation, Monitoring, and Reporting Program



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Mitigation, Monitoring, and Reporting Program

1. Introduction

The California Environmental Quality Act (CEQA) requires a lead or responsible agency to adopt a mitigation monitoring and reporting program (MMRP) when approving or carrying out a project (Section 21081.6 of the California Public Resources Code). The purpose of this program is to ensure that the mitigation measures identified in an Environmental Impact Report (EIR) or a mitigated negative declaration are implemented as detailed in the environmental document. As lead agency for the Comprehensive Sewer Master Plan (CSMP) Update, the City of Vista (City) is responsible for implementation of this MMRP per the requirements of the (CEQA).

In this context, this MMRP was prepared to provide a monitoring guide to facilitate the implementation of the adopted mitigation measures and related compliance reporting. Once the City adopts the MMRP, the mitigation monitoring/reporting requirements will be incorporated into the appropriate permits and construction documents (i.e., engineering specifications, engineering and construction plans, etc.). In accordance with the aforementioned requirements, this MMRP lists each mitigation measure, describes the methods for implementation and verification, and identifies the responsible party or parties as detailed below in Section 3.

2. Monitoring and Reporting Procedures

This MMRP was developed for each of the improvement categories identified for the City's CSMP (State Clearinghouse Number 2007091072). The MMRP will be in place through all phases of the CSMP, including design, construction, and operation of individual improvements, and will facilitate the implementation of mitigation measures proposed to avoid, minimize, or reduce significant environmental effects.

The City will be responsible for administering the MMRP and ensuring that all parties, including its contractors, comply with its provisions. The City may delegate implementation and monitoring activities to staff, consultants, or contractors. The City will require that its construction contractors submit an environmental compliance plan for approval by the City and construction manager prior to the beginning construction activities.

This plan shall document how the contractor intends to comply with all measures applicable to the contract, including the application of best management practices (BMPs) in accordance with instructions listed in the construction specifications. The City also will ensure that monitoring is documented through systematic compliance verification and reporting and that deficiencies are promptly corrected.

3. Mitigation Monitoring and Reporting Program Implementation

This MMRP was prepared to verify compliance with individual mitigation measures proposed in the Final SPEIR for the 2017 CSMP. Table 1 of this MMRP identifies each mitigation measure by discipline, the entity responsible for its implementation, and the improvement category in which the measure applies. Certain inspections and reports may require preparation by qualified individuals



and these are specified as needed. The timing and method of verification for each measure are also specified.

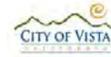


Table 1. MMRP Mitigation Measures

Mitigation Measure	Timing	Project Category ¹	Primary Responsible Party	Secondary Responsible Party	Verification
BIOLOGICAL RESOURCES					
<p>BIO-1 - MBTA Nest Avoidance. If construction activities occur between January 15 and September 15, a preconstruction survey (within seven days prior to construction activities) shall be conducted by a qualified biologist to determine if active nests are present within or adjacent to the area proposed for development in order to avoid the nesting activities of breeding birds/raptors. The results of the surveys shall be submitted to the City (and made available to the Wildlife Agencies, upon request) prior to initiation of any construction activities.</p> <p>If nesting activities within 200 feet of the proposed work area are not detected, construction activities may proceed. If nesting activities are confirmed, construction activities shall be delayed within an appropriate buffer (e.g., 300-feet to 500 feet contingent on the species observed) from the active nest until the young birds have fledged and left the nest or until the nest is no longer active as determined by a qualified biologist. The size of the appropriate buffer shall be determined by a qualified biologist based on field conditions. The results of all biological monitoring shall be submitted to the City (and made available to the Wildlife Agencies, upon request).</p>	Prior to and during construction	1, 2, 3, 4	City of Vista Engineering Department	California Department of Fish and Wildlife (CDFW), U. S. Fish and Wildlife Service (USFWS)	
<p>BIO-2 - Habitat Assessment and Focused Surveys for Special-Status Species and Sensitive Habitats. Prior to the issuance of project-specific construction documents for CIP Capacity and Condition Projects (Cross-County) and Out-of-Service Access Roads, a habitat assessment shall be conducted by a qualified biologist to determine the potential for special-status species to occur within the anticipated construction area. If the habitat assessment identifies potentially suitable habitat for threatened and endangered species, focused surveys shall be conducted by a qualified biologist to determine their presence or absence. Sensitive vegetation communities shall be documented as part of the habitat assessment.</p> <p>If threatened and endangered species are observed/detected, project specific mitigation measures shall be developed to</p>	Prior to and during construction; post-construction if compensatory mitigation is proposed	2, 4	City of Vista Engineering Department	CDFW, USFWS; City of Carlsbad	



Table 1. MMRP Mitigation Measures

Mitigation Measure	Timing	Project Category ¹	Primary Responsible Party	Secondary Responsible Party	Verification
<p>mitigate impacts on threatened and endangered species to below a level of significance. Specific measures shall include, but are not limited to:</p> <ul style="list-style-type: none"> • Early consultation with the wildlife agencies (i.e., USFWS, CDFW) for ESA- and CESA-listed species to ensure avoidance to the greatest extent feasible and appropriate “take” authorization. • Provision of a qualified biological monitor on site during all earth disturbing activities to ensure avoidance of impacts on listed species. • The use of fencing or flagging to identify sensitive areas that support the listed species and to ensure that the areas are protected from direct and indirect impacts. • Implementation of noise reduction measures (e.g., noise attenuation structures) within habitats occupied by listed avian species, and noise monitoring during the breeding season. • Identification and transplantation of listed plant species populations in accordance with best practices. • Impacts to federally listed species covered by the City of Carlsbad’s HMP will be required to be consistent with those authorized under the HMP and coordinated with the City of Carlsbad and USFWS. • Avoidance of the breeding seasons for listed species such as: <ul style="list-style-type: none"> ○ Arroyo toad—March 1 to September 30 ○ Least Bell’s vireo—March 1 to September 30 ○ Willow flycatcher (all subspecies)—March 1 to September 30 ○ Coastal California gnatcatcher—March 1 to September 30 					



Table 1. MMRP Mitigation Measures

Mitigation Measure	Timing	Project Category ¹	Primary Responsible Party	Secondary Responsible Party	Verification
If no threatened or endangered species are observed or detected during focused surveys, but potentially suitable habitat for non-threatened and non-endangered plant or wildlife species is present, a site-specific determination shall be made as to whether the potential impacts are significant based on the degree of threat and the size of the population/occupied habitat to be impacted.					
BIO-3 - Formal Wetland Delineation and Permit Acquisition. If the habitat assessment identifies potential federal and/or state jurisdictional wetlands, a formal jurisdictional delineation shall be prepared. This document shall map the jurisdictional wetlands present and overlay it on the grading footprint of the project, thereby allowing a calculation of the total impacts. If jurisdictional wetlands would be impacted, mitigation shall be required at a minimum 1:1 ratio; however, coordination with USACE (through the 404 process) and CDFW (through the Section 1602 Streambed Alteration Agreement process) may determine a higher ratio is required. Mitigation shall be achieved through a combination of in-kind creation, restoration, and/or enhancement as determined to be appropriate for each site through consultation with the Resource Agencies. Mitigation shall first be considered on-site, then with an approved mitigation bank, and thirdly through offsite mitigation. The appropriate permit applications shall be submitted to state and federal regulatory agencies. The permits issued by these agencies would finalize the mitigation requirements.	Prior to and during construction; post-construction if compensatory mitigation is proposed	2, 4	City of Vista Engineering Department	CDFW, USFWS	



Table 1. MMRP Mitigation Measures

Mitigation Measure	Timing	Project Category ¹	Primary Responsible Party	Secondary Responsible Party	Verification
CULTURAL RESOURCES					
<p>CULT-1 Construction-Related Vibration. Prior to the issuance of project-specific construction documents for CIP Capacity and Condition Projects (Hardscape Environs), the City Engineer shall determine whether construction activities would occur within 25 feet of a NRHP or CRHR eligible or listed historic structure. For structures that have not been previously evaluated, the City Engineer shall consult with a qualified Architectural Historian approved by the City to conduct an evaluation of the structure.</p> <p>If the structure is determined eligible or already eligible or listed in the NRHP or CRHR, a structural evaluation shall be conducted by a Professional Structural Engineer to identify maximum allowable levels of vibration during construction. If a historic determination is required, the engineer shall provide recommendations on approaches to stabilization in conjunction with vibration monitoring. Permanent stabilization measures shall follow the Secretary of the Interior's guidelines for the treatment of historic properties. If the buildings are temporarily stabilized for the duration of construction activities, when removed, the buildings shall be restored to their pre-construction condition when the stabilization measures are removed.</p>	Prior to and following construction	1, 2	City of Vista Engineering Department	Native American Heritage Commission (NAHC)	

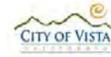


Table 1. MMRP Mitigation Measures

Mitigation Measure	Timing	Project Category ¹	Primary Responsible Party	Secondary Responsible Party	Verification
<p>CULT-2 - Project-Specific Archaeological Survey. Prior to the issuance of project-specific construction documents for CIP Capacity and Condition Projects (Hardscape and Cross County Environs), Pump Station Rehabilitations, and Out-of-Service Area Projects, a Qualified Archaeologist approved by the City shall contact the NAHC regarding a Sacred Lands File Search for the project area. In addition, the City shall request a written response from the San Luis Rey Band of Mission Indians (SLR Band) (a tribe traditionally and culturally affiliated with the site) regarding whether the site of the 2017 CSMP improvement project may potentially affect Native American resources. If the NAHC and/or the SLR Band confirms potential known resources, a pedestrian survey (i.e., physical walk over) shall first be conducted by the Qualified Archaeologist and a TCA (traditionally and culturally affiliated) Native American Monitor. Should the pedestrian survey identify Native American cultural resources, the Qualified Archeologist shall, in consultation with the TCA Native American monitor and the SLR Band, make an immediate written evaluation of the significance and appropriate treatment of the resource, including any avoidance measures, additional testing and evaluations, or data recovery plans, and Pre-Excavation Agreements with the Tribe. If the SLR Band confirms, in consultation with the Qualified Archaeologist, that there is a potential for unknown resources to be uncovered during construction activities, then Mitigation Measure CULT-3, Archaeological Monitoring, shall be implemented.</p>	Prior to construction	1, 2, 3, 4	City of Vista Engineering Department	NAHC	
<p>CULT-3 Archaeological Monitoring. Cultural resource mitigation monitoring shall be conducted to provide for the identification, evaluation, treatment, and protection of any cultural resources that are affected by or may be discovered during the construction of the proposed project. The monitoring shall consist of the full-time presence of a Qualified Archaeologist and a TCA (traditionally and culturally affiliated) Native American Monitor, and the monitoring activities shall be identified and defined in a Pre-Excavation Agreement between the City's Engineering Department and the San Luis Rey Band. The purpose of this agreement shall be to formalize protocols and procedures for the</p>	During construction	1, 2, 3, 4	City of Vista Engineering Department	NAHC	



Table 1. MMRP Mitigation Measures

Mitigation Measure	Timing	Project Category ¹	Primary Responsible Party	Secondary Responsible Party	Verification
<p>protection, treatment, and disposition of, but not limited to, such items as Native American human remains, funerary objects, cultural and religious landscapes, ceremonial items, traditional gathering areas and cultural items, located and/or discovered through the cultural resource mitigation monitoring program in conjunction with the construction of the proposed project, including additional archaeological surveys and/or studies, excavations, geotechnical investigations, soil surveys, grading, or any other ground disturbing activities. Other tasks of the monitoring program shall include the following:</p> <ul style="list-style-type: none"> • The requirement for cultural resource mitigation monitoring shall be noted on all applicable construction documents, including demolition plans, grading plans, etc. • The Qualified Archaeologist and TCA Native American Monitor shall attend all applicable pre-construction meetings with the Contractor and/or associated Subcontractors. • The Qualified Archaeologist shall maintain ongoing collaborative consultation with the TCA Native American Monitor during all ground disturbing or altering activities, as identified above. • The Qualified Archaeologist and/or TCA Native American Monitor may halt ground-disturbing activities if archaeological artifact deposits or cultural features are discovered. In general, ground-disturbing activities shall be directed away from these deposits for a short time to allow a determination of potential significance, the subject of which shall be determined by the Qualified Archaeologist and the TCA Native American Monitor, in consultation with the San Luis Rey Band. Ground disturbing activities shall not resume until the Qualified Archaeologist, in consultation with the TCA Native American Monitor, deems the cultural resource or feature has been appropriately documented and/or protected. At the Qualified Archaeologist's discretion, the location of ground disturbing activities may be relocated elsewhere on the project site to avoid further disturbance of cultural resources. 					



Table 1. MMRP Mitigation Measures

Mitigation Measure	Timing	Project Category ¹	Primary Responsible Party	Secondary Responsible Party	Verification
<ul style="list-style-type: none"> The Qualified Archaeologist and/or TCA Native American Monitor may also halt ground disturbing activities around known archaeological artifact deposits or cultural features if, in their respective opinions, there is the possibility that they could be damaged or destroyed. The avoidance and protection of discovered unknown and significant cultural resources and/or unique archaeological resources is the preferable mitigation for the proposed project. If avoidance is not feasible, a Data Recovery Plan may be authorized by the City as the Lead Agency under CEQA. If data recovery is required, then the San Luis Rey Band shall be notified and consulted in drafting and finalizing any such recovery plan. Prior to the release of any Bonds associated with the construction of improvements noted in the 2017 CSMP, a Monitoring Report and/or Evaluation Report, which describes the results, analysis and conclusions of the cultural resource mitigation monitoring efforts (such as, but not limited to, a Data Recovery Program) shall be submitted by the Qualified Archaeologist, along with the TCA Native American Monitor's notes and comments, to the City's Director of Community Development for approval. 					
<p>CULT-4 Paleontological Monitoring. Monitoring during construction grading or trenching shall be required for all CIP conveyance projects (Hardscape and Cross-Country Environs) that would excavate to a depth of ten feet or more. Prior to the issuance of project specific construction documents, the City Engineer shall retain a Professional Paleontologist to observe all earth-disturbing activities. All fossil materials recovered during mitigation monitoring shall be cleaned, identified, cataloged, and analyzed in accordance with standard professional practices. The results of the field work and laboratory analysis shall be submitted in a technical report and the entire collection transferred to an approved facility.</p>	During construction	1, 2, 3, 4	City of Vista Engineering Department	NAHC	



Table 1. MMRP Mitigation Measures

Mitigation Measure	Timing	Project Category ¹	Primary Responsible Party	Secondary Responsible Party	Verification
<p>CULT-5 Disturbance to Human Remains. As specified by California Health and Safety Code Section 7050.5, if human remains are found on the project site during construction or during archaeological work, the person responsible for the excavation, or his or her authorized representative, shall immediately notify the San Diego County Coroner’s office by telephone. No further excavation or disturbance of the discovery or any nearby area reasonably suspected to overlie adjacent remains (as determined by the Qualified Archaeologist and/or the TCA (traditionally and culturally affiliated) Native American Monitor) shall occur until the Coroner has made the necessary findings as to origin and disposition pursuant to Public Resources Code 5097.98. If such a discovery occurs, a temporary construction exclusion zone shall be established surrounding the area of the discovery so that the area would be protected (as determined by the Qualified Archaeologist and/or the TCA Native American Monitor), and consultation and treatment could occur as prescribed by law. As further defined by State law, the Coroner would determine within two working days of being notified if the remains are subject to his or her authority. If the Coroner recognizes the remains to be Native American, he or she shall contact the Native American Heritage Commission (NAHC) within 24 hours. The NAHC would make a determination as to the Most Likely Descendent. If Native American remains are discovered, the remains shall be kept “in situ” (“in place”), or in a secure location in close proximity to where they were found, and the analysis of the remains shall only occur on-site in the presence of the TCA Native American Monitor.</p>	<p>During construction</p>	<p>1, 2, 3, 4</p>	<p>City of Vista Engineering Department</p>	<p>NAHC, San Diego County</p>	



Table 1. MMRP Mitigation Measures

Mitigation Measure	Timing	Project Category ¹	Primary Responsible Party	Secondary Responsible Party	Verification
HAZARDS AND HAZARDOUS MATERIALS					
<p>HAZ-1 - Halt Construction Work if Potentially Hazardous Materials are Encountered. All construction contractors shall immediately stop all surface or subsurface activities in the event that potentially hazardous materials are encountered, an odor is identified, or considerably stained soil is visible. Contractors shall follow all applicable local, state, and federal regulations regarding discovery, response, disposal, and remediation for hazardous materials encountered during the construction process. These requirements shall be included in the contractor specifications.</p> <p>If any hazardous materials, waste sites, or vapor intrusion risks are identified prior to or during construction, a qualified professional, in consultation with appropriate regulatory agencies, will develop and implement a plan to remediate the contamination and properly dispose of the contaminated material.</p> <p>If material imports are proposed, the contractor shall furnish the City with appropriate documentation certifying that the imported materials are free of contamination.</p>	During construction	1, 2, 3, 4	City of Vista Engineering Department		
<p>HAZ-2 - Hazardous Materials Surveys. Prior to the issuance of a building permit that includes demolition of on-site structures and prior to commencement of demolition or rehabilitation activities, a Hazardous Materials Assessment (surveys) would be performed to determine the presence or absence of ACMs/LBP located in the structure(s) to be demolished. Suspect materials that would be disturbed by the demolition or rehabilitation activities would be sampled and analyzed for asbestos content, or assumed to be asbestos containing. All lead containing materials scheduled for demolition must comply with applicable regulations for demolition methods and dust suppression. Lead containing materials shall be managed in accordance with applicable regulations. The ACM survey would be conducted by a person certified by the California Division of Occupational Safety and Health (Cal/OSHA). The LBP survey would be conducted by a person certified by the California Department of Health Services. Copies of the surveys would be provided to SDCDEH and SDCAPCD once completed.</p>	Prior to construction	1, 2, 4	City of Vista Engineering Department		



Table 1. MMRP Mitigation Measures

Mitigation Measure	Timing	Project Category ¹	Primary Responsible Party	Secondary Responsible Party	Verification
<p>HAZ-3 - Keep Construction Area Clear of Combustible Materials. During construction, construction contractors shall ensure that staging areas, welding areas, or areas slated for construction using spark-producing equipment shall be cleared of combustible vegetation or other materials that could serve as fire fuel. All vegetation clearing shall be coordinated with a qualified biologist and any required permits prior to removal. The contractor shall keep these areas clear of combustible materials in order to maintain a firebreak. Any construction equipment that normally includes a spark arrester shall be equipped with an arrester in good working order. This includes, but is not limited to, vehicles, heavy equipment, and chainsaws.</p>	During construction	1, 2, 4	City of Vista Engineering Department		
<p>HAZ-4 - Provide Accessible Fire Suppression Equipment. Work crews shall be required to have sufficient fire suppression equipment readily available to ensure that any fire resulting from construction activities is immediately extinguished. All off-road equipment using internal combustion engines shall be equipped with spark arrestors.</p>	During construction	1, 2, 4	City of Vista Engineering Department		
HYDROLOGY AND WATER QUALITY					
<p>HWQ-1 - Assess Project Risk, Receiving Water Vulnerability, and Implement a Water Quality Protection Strategy. The construction contractor will assess the receiving water vulnerability and develop a SWPPP that complies with the requirements of the NPDES General Construction Permit (Order 2009-0009-DWQ as amended by 2010 0014-DWQ and 2012-006-DWQ) based on the project-specific risk level subject to the City Engineer’s approval. The SWPPP shall identify specific actions and BMPs relating to the prevention of stormwater pollution from project-related construction sources by identifying a practical sequence for site restoration, BMP implementation, contingency measures, responsible parties, and agency contacts. The SWPPP shall reflect localized surface hydrological conditions, <u>local jurisdictional requirements</u>, and shall be reviewed and approved by the City Engineer prior to</p>	Prior to, during, and following construction	1, 2, 3, 4	City of Vista Engineering Department	Cities of Carlsbad, San Marcos, Oceanside; San Diego County; Regional Water Quality Control Board (RWQCB), Region 9	



Table 1. MMRP Mitigation Measures

Mitigation Measure	Timing	Project Category ¹	Primary Responsible Party	Secondary Responsible Party	Verification
<p>commencement of work.</p> <p>The SWPPP shall be prepared by a qualified SWPPP developer with BMPs selected to achieve maximum pollutant removal and that represent the best available technology that is economically achievable. BMPs for soil stabilization and erosion control practices and sediment control practices will also be required. Performance and effectiveness of these BMPs shall be determined either by visual means where applicable (i.e., observation of above-normal sediment release), or by actual water sampling in cases where verification of contaminant reduction or elimination, (e.g., inadvertent petroleum release) is required to determine adequacy of the measure.</p> <p>The SWPPP shall also address other project-specific water quality threats, as required for individual improvements including but not limited to, temporary dewatering, hydrostatic testing, and other resources permits as required under the Federal Clean Water Act, County Grading Ordinance, and State Fish and Game Code, as applicable. Construction and post-construction BMPs will be designed to avoid the creation of standing water and potential mosquito breeding habitat.</p>					
<p>HWQ-2 - Prepare and Implement a Flow Diversion Plan For Construction. The construction contractor shall develop a Flow Diversion Plan(s) for in-channel construction activities. The contractor shall incorporate measures to minimize changes to flood flow elevation(s) during construction, address accumulation of floating debris, provide measures that minimize sedimentation to surface waters, and include contingency measures in the event of substantial rainfall.</p>	Prior to and during construction	1, 4	City of Vista Engineering Department	RWQCB	
NOISE AND VIBRATION					
<p>NV-1 - Construction Noise Reduction Measures. The Construction Contractor shall demonstrate to the satisfaction of the City Engineer that the following noise control techniques are implemented during the clearing, demolition, grading and construction phases of projects identified in the 2017 CSMP</p>	Prior to and during construction	1, 2, 3, 4	City of Vista Engineering Department	Cities of Carlsbad, San Marcos, Oceanside; San Diego County	



Table 1. MMRP Mitigation Measures

Mitigation Measure	Timing	Project Category ¹	Primary Responsible Party	Secondary Responsible Party	Verification
<p>within 200 feet of noise-sensitive land uses.</p> <ul style="list-style-type: none"> • Heavy equipment repair and contractor staging shall be conducted at sites as far as practical from nearby residences. • Construction equipment, including vehicles, generators and compressors, shall be maintained in proper operating condition and shall be equipped with manufacturers’ standard noise control devices or better (e.g., mufflers, acoustical lagging, and/or engine enclosures). • Temporary sound barriers (or curtains), stockpiles of excavated materials, or other effective shielding or enclosure techniques shall be used where construction noise would exceed 90 dBA within less than 50 feet from a noise sensitive receptor. • Construction work, including on-site equipment maintenance and repair, shall be limited to the hours specified in the noise ordinance of the affected jurisdiction(s). • Electrical power shall be supplied from commercial power supply, wherever feasible, in order to avoid or minimize the use of engine-driven generators. • Electrically powered equipment shall be used instead of pneumatic or internal-combustion powered equipment, where feasible. • Unnecessary idling of internal combustion engines (i.e., in excess of 5 minutes) shall be prohibited. • Operating equipment shall be designed to comply with all applicable local, state, and federal noise regulations. • Construction site and access road speed limits shall be established and enforced during the construction period. • If lighted traffic control devices are to be located within 500 feet of residences, the devices shall be powered by batteries, solar power, or similar sources, and not by an internal combustion engine. 					



Table 1. MMRP Mitigation Measures

Mitigation Measure	Timing	Project Category ¹	Primary Responsible Party	Secondary Responsible Party	Verification
<ul style="list-style-type: none"> The use of noise-producing signals, including horns, whistles, alarms, and bells, shall be for safety warning purposes only. No project-related public address or music system shall be audible at any adjacent sensitive receptor. The construction contractors shall provide advance notice, between 2 and 4 weeks prior to construction, by mail to all residents or property owners within 200 feet of the alignment. The announcement shall state specifically where and when construction will occur in the area. If construction delays of more than 7 days occur, an additional notice shall be made, either in person or by mail. The City shall publish a notice of impending construction on the City website, stating when and where construction will occur. The construction contractors shall identify and provide a public liaison person before and during construction to respond to concerns of neighboring residents about noise and other construction disturbance. The construction contractors shall also establish a program for receiving questions or complaints during construction and develop procedures for responding to callers. Procedures for reaching the public liaison officer via telephone or in person shall be included in notices distributed to the public in accordance with the information above. 					
TRANSPORTATION AND CIRCULATION					
<p>Mitigation Measure TR-1 - Prepare and Implement a Traffic Control Plan. The construction contractor shall prepare a Traffic Control Plan for roadways and intersections affected by individual 2017 CSMP improvements for approval by the City Engineer. The Traffic Control Plan will comply with local agency requirements (e.g., Vista, Carlsbad, Caltrans, etc.) with jurisdiction over project construction. The Traffic Control Plan will include, but not be limited to, the following elements based on local site and roadway conditions:</p>	Prior to and during construction	1, 2, 4	City of Vista Engineering Department	Cities of Carlsbad, San Marcos, Oceanside; San Diego County	



Table 1. MMRP Mitigation Measures

Mitigation Measure	Timing	Project Category ¹	Primary Responsible Party	Secondary Responsible Party	Verification
<ul style="list-style-type: none"> • Provide street layout showing location of construction activity and surrounding streets to be used as detour routes, including “special signage.” Post a minimum 72-hour advance warning of construction activities within affected roadways to allow motorists to select alternative routes. • Restrict delivery of construction materials to non-peak travel periods (9 a.m. – 3 p.m.) as appropriate. Weekend and night work shifts will be allowed in non-residential areas only. • Maintain the maximum travel-lane capacity during non-construction periods and provide flagger-control at construction sites to manage traffic control and flows. • Limit the construction work zone in each block to a width that, at a minimum, maintains alternate one-way traffic flow past the construction zone. • Maintain access for driveways and private roads, except for brief periods of construction, in which case property owners will be notified. • Require temporary steel-plate trench crossings, as needed, to maintain reasonable access to homes, businesses, and streets. When required by the applicable encroachment permit, maintain the existing lane configuration during nonworking hours by covering the trench or jack pit with steel plates or by using temporary backfill. • Require appropriate warning signage and safety lighting for construction zones. • Access for emergency vehicles shall be maintained at all times. Police, fire, and emergency services shall be notified of the timing, location, and duration of construction activities that could hinder and/or delay emergency access through the construction period. • Coordinate with NCTD to plan, as needed, for the temporary relocation of bus stops and/or detour of transit routes on affected pipeline alignments. 					



Table 1. MMRP Mitigation Measures

Mitigation Measure	Timing	Project Category ¹	Primary Responsible Party	Secondary Responsible Party	Verification
<ul style="list-style-type: none"> Identify detours, where available, for bicyclists and pedestrians in areas potentially affected by project construction. Provide adequate off-street parking locations for workers' vehicles and construction equipment in those areas where on-street parking availability is insufficient. Repair or restore the roadway ROW to its original condition or better upon completion of work. 					

¹ Project categories identified in the CSMP SPEIR include:

Category 1: CIP Capacity and Condition Projects (Hardscape Environs). Tables 3-3 and 3 4 in Chapter 3 identify the near-term and build out CIP capacity-related projects included within this category. Figures 3-7 and 3-8 illustrate the locations of the capacity improvements. Table 1 in Appendix B of this SPEIR includes a list of CIP condition Projects included within this category. Figures 3-9 through 3-17 illustrate the location of the condition relate improvements.

Category 2: CIP Capacity and Condition Projects (Cross-Country Environs). Tables 3-3 and 3-4 identify the near-term and build out CIP capacity-related projects included within this category. Figures 3-7 and 3-8 illustrate the locations of the capacity improvements. Table 2 in Appendix B of this SPEIR includes a list of CIP condition projects included in this category. Figures 3-9 through 3-17 illustrate the location of the condition-relate improvements.

Category 3: O&M Program Operations and Pump Station Rehabilitation. Table 3-5 in Chapter 3 of this SPEIR includes a list of the O&M Program improvements included within this category.

Category 4: Out-of-Service Area Projects. Figures 3-19 and 3-20 illustrate the out-of-service area project(s) improvements included within this category.



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Appendix B. Project-Level Environmental Checklist



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Appendix B. Project-Level Environmental Checklist

This Environmental Checklist (Checklist) provides a mechanism for reviewing and assessing individual sanitary sewer improvement projects identified in the City's 2017 Comprehensive Sewer Master Plan (CSMP). The City prepared a Supplemental Program Environmental Impact Report (SPEIR) that considered the potential environmental impacts of these improvements, as contemplated in the CSMP, and proposed mitigation measures as contained in the Mitigation Monitoring and Reporting Program (MMRP). The Checklist follows the procedures provided in Section 15168(c) of the CEQA Guidelines and is modeled after Appendix N of the CEQA Guidelines. The MMRP is incorporated by reference and should be reviewed in conjunction with the completion of this Checklist.

CSMP Project Information

- 1) Project title: _____
- 2) Contact person and phone number: _____
- 3) Project location: _____
- 4) Description of project (Describe the whole action involved, including but not limited to later phases of the project, and any secondary, support, or off- site features necessary for its implementation. Attach additional sheets if necessary.): _____
- 5) Surrounding land uses and setting: _____
- 6) Other public agencies whose approval is required (e.g., permits, financing approval, or participation agreement.): _____

Checklist Evaluation

- 1) Is project identified in one of the four CSMP project categories identified in the SPEIR?
 - Category 1 - Conveyance (Capacity/Condition) Project (Hardscape Environs) – See Attachment A- SPEIR Tables 3-3 and 3-4 (Hardscape), Appendix B (Hardscape) and Figures 3-7 through 3-17
 - Category 2 - Conveyance (Capacity/Condition) Project (Cross County Environs) – See Attachment B- SPEIR, Tables 3-3 and 3-4 (Cross Country), Appendix B (Cross Country) and Figures 3-7 through 3-17
 - Category 3 - O&M Program – Attachment C- SPEIR Table 3-5 and Figure 3-18
 - Category 4 - O&M Access (BC and V/C Interceptor Access) - See Attachment D- SPEIR Figures 3-19 and 3-20

Note: If the project is not identified as a Category 1, 2, 3, or 4 project, this checklist does not apply. For non-applicable projects, determine if project qualifies for a Class 1, 2, or 3 Categorical Exemption (CE) or addendum to the SPEIR. A new CEQA document may be required if none of these conditions are met



2) Is the project similar in scope to that described in the SPEIR (CEQA Guidelines Section 15162(a))?

Yes – Proceed to #3

No – Assess project change and determine if changes result in new or more significant impacts than described in the SPEIR:

Changes are within the scope of the SPEIR?

Yes – Proceed to #3

No – Checklist not applicable

3) Complete Project Review Checklist:

Note: This checklist is intended to assist the City of Vista (and Buena Sanitation District [District]) in assessing projects included under the 2017 CSMP according to the procedures provided in Section 15168(c) of the CEQA guidelines.



Environmental Factors Potentially Affected:

The project could potentially result in one or more of the following environmental effects.

- | | | |
|---|--|---|
| <input type="checkbox"/> Aesthetics | <input type="checkbox"/> Agriculture and Forestry | <input type="checkbox"/> Air Quality |
| <input type="checkbox"/> Biological Resources | <input type="checkbox"/> Cultural Resources | <input type="checkbox"/> Geology/Soils |
| <input type="checkbox"/> Greenhouse Gas Emissions | <input type="checkbox"/> Hazards & Hazardous Materials | <input type="checkbox"/> Hydrology/Water Quality |
| <input type="checkbox"/> Land Use/Planning | <input type="checkbox"/> Mineral Resources | <input type="checkbox"/> Noise |
| <input type="checkbox"/> Population/Housing | <input type="checkbox"/> Public Services | <input type="checkbox"/> Recreation |
| <input type="checkbox"/> Transportation/Traffic | <input type="checkbox"/> Utilities/Service Systems | <input type="checkbox"/> Mandatory Findings of Significance |

Determination:

On the basis of this initial evaluation:

- I find that the proposed project WOULD NOT have any significant effects on the environment that either have not already been analyzed in the prior SPEIR or that are more significant than previously analyzed. Pursuant to CEQA Guidelines Section 15168(c), CEQA does not apply to such effects. A Notice of Determination (Section 15094) will be filed.
- I find that the proposed project will have effects that either have not been analyzed in the prior SPEIR, or are more significant than described in the prior SPEIR. With respect to those effects that are subject to CEQA, I find that such effects WOULD NOT be significant and a NEGATIVE DECLARATION will be prepared.
- I find that the proposed project will have effects that either have not been analyzed in a prior EIR, or are more significant than described in the prior SPEIR. I find that although those effects could be significant, there will not be a significant effect in this case because revisions in the project have been made by or agreed to by the project proponent. A MITIGATED NEGATIVE DECLARATION will be prepared.
- I find that the proposed project would have effects that either have not been analyzed in a prior SPEIR, or are more significant than described in the prior SPEIR. I find that those effects WOULD be significant, and an ENVIRONMENTAL IMPACT REPORT is required to analyze those effects that are subject to CEQA.

Signature

Date

Evaluation of Environmental Impacts:

- 1) A brief explanation is required for all answers except "No Impact" answers that are adequately supported by the information sources a lead agency cites in the parentheses following each question. A "No Impact" answer is adequately supported if the referenced information sources show that the impact simply does not apply to projects like the one involved (e.g., the project falls

outside a fault rupture zone). A "No Impact" answer should be explained where it is based on project-specific factors as well as general standards (e.g., the project will not expose sensitive receptors to pollutants, based on a project-specific screening analysis).

- 2) All answers must take account of the whole action involved, including off-site as well as on-site, cumulative as well as project-level, indirect as well as direct, and construction as well as operational impacts.
- 3) For the purposes of this checklist, "prior SPEIR" means the environmental impact report certified for the 2017 CSMP.
- 4) Once the lead agency has determined that a particular physical impact may occur as a result of an improvement contemplated under the CSMP, then the checklist answers must indicate whether that impact has already been analyzed in the prior SPEIR. If the effect of the project is not more significant than what has already been analyzed, that effect of the project is not subject to CEQA. The brief explanation accompanying this determination should include page and section references to the portions of the prior SPEIR containing the analysis of that effect. The brief explanation shall also indicate whether the prior SPEIR included any mitigation measures to substantially lessen that effect and whether those measures have been incorporated into the project.
- 5) If all effects of an improvement contemplated under CSMP were either analyzed in the prior SPEIR, CEQA does not apply to the project, and the lead agency shall file a Notice of Determination.
- 6) Effects of an improvement contemplated under CSMP that either has not been analyzed in a prior EIR are subject to CEQA. With respect to those effects of individual improvements contemplated under CSMP that are subject to CEQA, the checklist shall indicate whether those effects are significant, less than significant with mitigation, or less than significant. If there are one or more "Significant Impact" entries when the determination is made, an EIR is required. The EIR should be limited to analysis of those effects determined to be significant. (Section 15128).
- 7) "Less Than Significant With Mitigation Incorporated" applies where the incorporation of mitigation measures will reduce an effect of a project that is subject to CEQA from "Significant Impact" to a "Less Than Significant Impact." The lead agency must describe the mitigation measures, and briefly explain how those measures reduce the effect to a less than significant level. If the effects of a project that are subject to CEQA are less than significant with mitigation incorporated, the lead agency may prepare a Mitigated Negative Declaration. If all of the effects of the project that are subject to CEQA are less than significant, the lead agency may prepare a Negative Declaration.
- 8) The explanation of each issue should identify:
 - a. the significance criteria or threshold, if any, used to evaluate each question; and
 - b. the mitigation measure identified, if any, to reduce the impact to less than significance.



I. Aesthetics

Environmental Issue Area:	Impact Analyzed in the SPEIR	New Significant Impact due to Unusual Circumstances or Substantial New Information	No Impact or Less than Significant Impact	SPEIR Mitigation Measure(s) Applicable	New Mitigation Measure(s) Required
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Would the project:

a) Have a substantial adverse effect on a scenic vista?	<input type="checkbox"/>				
b) Substantially damage scenic resources, including, but not limited to, trees, rock outcroppings, and historic buildings within a state scenic highway?	<input type="checkbox"/>				
c) Substantially degrade the existing visual character or quality of the site and its surroundings?	<input type="checkbox"/>				
d) Create a new source of substantial light or glare which would adversely affect day or nighttime views in the area?	<input type="checkbox"/>				

Discussion:



II. Agricultural Resources

Environmental Issue Area:	Impact Analyzed in the SPEIR	New Significant Impact due to Unusual Circumstances or Substantial New Information	No Impact or Less than Significant Impact	SPEIR Mitigation Measure(s) Applicable	New Mitigation Measure(s) Required
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In determining whether impacts to agricultural resources are significant environmental effects, lead agencies may refer to the California Agricultural Land Evaluation and Site Assessment Model (1997) prepared by the California Department of Conservation as an optional model to use in assessing impacts on agriculture and farmland. In determining whether impacts to forest resources, including timberland, are significant environmental effects, lead agencies may refer to information compiled by the California Department of Forestry and Fire Protection regarding the state's inventory of forest land, including the Forest and Range Assessment Project and the Forest Legacy Assessment project; and forest carbon measurement methodology provided in Forest Protocols adopted by the California Air Resources Board.

Would the project:

a) Convert Prime Farmland, Unique Farmland, or Farmland of Statewide Importance (Farmland), as shown on the maps prepared pursuant to the Farmland Mapping and Monitoring Program of the California Resources Agency, to non-agricultural use?	<input type="checkbox"/>				
b) Conflict with existing zoning for agricultural use, or a Williamson Act contract?	<input type="checkbox"/>				
c) Conflict with existing zoning for, or cause rezoning of, forest land (as defined in Public Resources Code section 12220(g)), timberland (as defined by Public Resources Code section 4526), or timberland zoned Timberland Production (as defined by Government Code section 51104(g))?	<input type="checkbox"/>				
d) Result in the loss of forest land or conversion of forest land to non-forest use?	<input type="checkbox"/>				



II. Agricultural Resources

Environmental Issue Area:	Impact Analyzed in the SPEIR	New Significant Impact due to Unusual Circumstances or Substantial New Information	No Impact or Less than Significant Impact	SPEIR Mitigation Measure(s) Applicable	New Mitigation Measure(s) Required
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In determining whether impacts to agricultural resources are significant environmental effects, lead agencies may refer to the California Agricultural Land Evaluation and Site Assessment Model (1997) prepared by the California Department of Conservation as an optional model to use in assessing impacts on agriculture and farmland. In determining whether impacts to forest resources, including timberland, are significant environmental effects, lead agencies may refer to information compiled by the California Department of Forestry and Fire Protection regarding the state's inventory of forest land, including the Forest and Range Assessment Project and the Forest Legacy Assessment project; and forest carbon measurement methodology provided in Forest Protocols adopted by the California Air Resources Board.

Would the project:

e) Involve other changes in the existing environment which, due to their location or nature, could result in conversion of Farmland, to non-agricultural use or conversion of forest land to non-forest use?	<input type="checkbox"/>				
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Discussion:



III. Air Quality

Environmental Issue Area:	Impact Analyzed in the SPEIR	New Significant Impact due to Unusual Circumstances or Substantial New Information	No Impact or Less than Significant Impact	SPEIR Mitigation Measure(s) Applicable	New Mitigation Measure(s) Required
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Where available, the significance criteria established by the applicable air quality management or air pollution control district may be relied upon to make the following determinations.

Would the project:

a) Conflict with or obstruct implementation of the applicable air quality plan?	<input type="checkbox"/>				
b) Violate any air quality standard or contribute substantially to an existing or projected air quality violation?	<input type="checkbox"/>				
c) Result in a cumulatively considerable net increase of any criteria pollutant for which the project region is non-attainment under an applicable federal or state ambient air quality standard (including releasing emissions, which exceed quantitative thresholds for ozone precursors)?	<input type="checkbox"/>				
d) Expose sensitive receptors to substantial pollutant concentrations?	<input type="checkbox"/>				
e) Create objectionable odors affecting a substantial number of people?	<input type="checkbox"/>				

Discussion:



IV. Biological Resources

Environmental Issue Area:	Impact Analyzed in the SPEIR	New Significant Impact due to Unusual Circumstances or Substantial New Information	No Impact or Less than Significant Impact	SPEIR Mitigation Measure(s) Applicable	New Mitigation Measure(s) Required
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Would the project:

a) Have a substantial adverse effect, either directly or through habitat modifications, on any species identified as a candidate, sensitive, or special status species in local or regional plans, policies, or regulations, or by the California Department of Fish and Game or U.S. Fish and Wildlife Service?	<input type="checkbox"/>				
b) Have a substantial adverse effect on any riparian habitat or other sensitive natural community identified in local or regional plans, policies, and regulations or by the California Department of Fish and Game or U.S. Fish and Wildlife Service?	<input type="checkbox"/>				
c) Have a substantial adverse effect on federally protected wetlands as defined by Section 404 of the Clean Water Act (including, but not limited to, marsh, vernal pool, coastal, etc.) through direct removal, filling, hydrological interruption, or other means?	<input type="checkbox"/>				
d) Interfere substantially with the movement of any native resident or migratory fish or wildlife species or with established native resident or migratory wildlife corridors, or impede the use of wildlife nursery sites?	<input type="checkbox"/>				



IV. Biological Resources

Environmental Issue Area:	Impact Analyzed in the SPEIR	New Significant Impact due to Unusual Circumstances or Substantial New Information	No Impact or Less than Significant Impact	SPEIR Mitigation Measure(s) Applicable	New Mitigation Measure(s) Required
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Would the project:

e) Conflict with any local policies or ordinances protecting biological resources, such as a tree preservation policy or ordinance?	<input type="checkbox"/>				
f) Conflict with the provisions of an adopted Habitat Conservation Plan, Natural Community Conservation Plan, or other approved local, regional, or state habitat conservation plan?	<input type="checkbox"/>				

Discussion:



V. Cultural Resources

Environmental Issue Area:	Impact Analyzed in the SPEIR	New Significant Impact due to Unusual Circumstances or Substantial New Information	No Impact or Less than Significant Impact	SPEIR Mitigation Measure(s) Applicable	New Mitigation Measure(s) Required
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Would the project:

a) Cause a substantial adverse change in the significance of a historical resource as defined in §15064.5?	<input type="checkbox"/>				
b) Cause a substantial adverse change in the significance of an archaeological resource pursuant to §15064.5?	<input type="checkbox"/>				
c) Directly or indirectly destroy a unique paleontological resource or site or unique geologic feature?	<input type="checkbox"/>				
d) Disturb any human remains, including those interred outside of formal cemeteries?	<input type="checkbox"/>				

Discussion:



VI. Geology and Soils

Environmental Issue Area:	Impact Analyzed in the SPEIR	New Significant Impact due to Unusual Circumstances or Substantial New Information	No Impact or Less than Significant Impact	SPEIR Mitigation Measure(s) Applicable	New Mitigation Measure(s) Required
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Would the project:

a) Expose people or structures to potential substantial adverse effects, including the risk of loss, injury or death involving:	<input type="checkbox"/>				
i) Rupture of a known earthquake fault, as delineated on the most recent Alquist-Priolo Earthquake Fault Zoning Map issued by the State Geologist for the area or based on other substantial evidence of a known fault? Refer to Division of Mines and Geology Special Publication 42.	<input type="checkbox"/>				
ii. Strong seismic ground shaking?	<input type="checkbox"/>				
iii. Seismic-related ground failure, including liquefaction?	<input type="checkbox"/>				
iv. Landslides?	<input type="checkbox"/>				
b) Result in substantial soil erosion or the loss of topsoil?	<input type="checkbox"/>				
c) Be located on a geologic unit or soil that is unstable, or that would become unstable as a result of the project and potentially result in on- or off-site landslide, lateral spreading, subsidence, liquefaction or collapse?	<input type="checkbox"/>				



VI. Geology and Soils

Environmental Issue Area:	Impact Analyzed in the SPEIR	New Significant Impact due to Unusual Circumstances or Substantial New Information	No Impact or Less than Significant Impact	SPEIR Mitigation Measure(s) Applicable	New Mitigation Measure(s) Required
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Would the project:

d) Be located on expansive soil, as defined in Table 18-1-B of the Uniform Building Code (1994), creating substantial risks to life or property?	<input type="checkbox"/>				
e) Have soils incapable of adequately supporting the use of septic tanks or alternative wastewater disposal systems where sewers are not available for the disposal of wastewater?	<input type="checkbox"/>				

Discussion:



VII. Greenhouse Gas Emissions

Environmental Issue Area:	Impact Analyzed in the SPEIR	New Significant Impact due to Unusual Circumstances or Substantial New Information	No Impact or Less than Significant Impact	SPEIR Mitigation Measure(s) Applicable	New Mitigation Measure(s) Required
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Would the project:

a) Generate greenhouse gas emissions, either directly or indirectly, that may have an adverse effect on the environment?	<input type="checkbox"/>				
b) Conflict with an applicable plan, policy, or regulation adopted for the purpose of reducing the emissions of greenhouse gases?	<input type="checkbox"/>				

Discussion:



VIII. Hazards and Hazardous Materials

Environmental Issue Area:	Impact Analyzed in the SPEIR	New Significant Impact due to Unusual Circumstances or Substantial New Information	No Impact or Less than Significant Impact	SPEIR Mitigation Measure(s) Applicable	New Mitigation Measure(s) Required
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Would the project:

a) Create a significant hazard to the public or the environment through the routine transport, use, or disposal of hazardous materials?	<input type="checkbox"/>				
b) Create a significant hazard to the public or the environment through reasonably foreseeable upset and accident conditions involving the likely release of hazardous materials into the environment?	<input type="checkbox"/>				
c) Emit hazardous emissions or handle hazardous or acutely hazardous materials, substances, or waste within 0.25 mile of an existing or proposed school?	<input type="checkbox"/>				
d) Be located on a site which is included on a list of hazardous materials sites compiled pursuant to Government Code Section 65962.5 and, as a result, would it create a significant hazard to the public or the environment?	<input type="checkbox"/>				
e) For a project located within an airport land use plan or, where such a plan has not been adopted, within 2 miles of a public airport or public use airport, would the project result in a safety hazard for people residing or working in the project area?	<input type="checkbox"/>				
f) For a project within the vicinity of a private airstrip, would the project result in a safety hazard for people residing or working in the project area?	<input type="checkbox"/>				



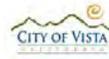
VIII. Hazards and Hazardous Materials

Environmental Issue Area:	Impact Analyzed in the SPEIR	New Significant Impact due to Unusual Circumstances or Substantial New Information	No Impact or Less than Significant Impact	SPEIR Mitigation Measure(s) Applicable	New Mitigation Measure(s) Required
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Would the project:

g) Impair implementation of or physically interfere with an adopted emergency response plan or emergency evacuation plan?	<input type="checkbox"/>				
h) Expose people or structures to a significant risk of loss, injury or death involving wildland fires, including where wildlands are adjacent to urbanized areas or where residences are intermixed with wildlands?	<input type="checkbox"/>				

Discussion:



IX. Hydrology and Water Quality

Environmental Issue Area:	Impact Analyzed in the SPEIR	New Significant Impact due to Unusual Circumstances or Substantial New Information	No Impact or Less than Significant Impact	SPEIR Mitigation Measure(s) Applicable	New Mitigation Measure(s) Required
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Would the project:

a) Violate any water quality standards or waste discharge requirements?	<input type="checkbox"/>				
b) Substantially deplete groundwater supplies or interfere substantially with groundwater recharge such that there would be a net deficit in aquifer volume or a lowering of the local groundwater table level (e.g., the production rate of pre-existing nearby wells would drop to a level which would not support existing land uses or planned uses for which permits have been granted?	<input type="checkbox"/>				
c) Substantially alter the existing drainage pattern of area, including through the alteration of the course of a stream or river, in a manner which would result in substantial erosion or siltation on- or off-site?	<input type="checkbox"/>				
d) Substantially alter the existing drainage pattern of the site or area, including through the alteration of the course of a stream or river, or substantially increase the rate or amount of surface runoff in a manner, which would result in flooding on- or off-site?	<input type="checkbox"/>				
e) Create or contribute runoff water which would exceed the capacity of existing or planned stormwater drainage systems or provide substantial additional sources of polluted runoff?	<input type="checkbox"/>				
f) Otherwise substantially degrade water quality?	<input type="checkbox"/>				



IX. Hydrology and Water Quality

Environmental Issue Area:	Impact Analyzed in the SPEIR	New Significant Impact due to Unusual Circumstances or Substantial New Information	No Impact or Less than Significant Impact	SPEIR Mitigation Measure(s) Applicable	New Mitigation Measure(s) Required
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Would the project:

g) Place housing within a 100-year flood hazard area as mapped on a federal Flood Hazard Boundary or Flood Insurance Rate Map or other flood hazard delineation map?	<input type="checkbox"/>				
h) Place within a 100-year flood hazard area structures, which would impede or redirect flood flows?	<input type="checkbox"/>				
i) Expose people or structures to a significant risk of loss, injury or death involving flooding, including flooding as a result of the failure of a levee or dam?	<input type="checkbox"/>				
j) Inundation by seiche, tsunami, or mudflow?	<input type="checkbox"/>				

Discussion:



X. Land Use and Planning

Environmental Issue Area:	Impact Analyzed in the SPEIR	New Significant Impact due to Unusual Circumstances or Substantial New Information	No Impact or Less than Significant Impact	SPEIR Mitigation Measure(s) Applicable	New Mitigation Measure(s) Required
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Would the project:

a) Physically divide an established community?	<input type="checkbox"/>				
b) Conflict with any applicable land use plan, policy, or regulation of an agency with jurisdiction over the project (including, but not limited to the general plan, specific plan, local coastal program, or zoning ordinance) adopted for the purpose of avoiding or mitigating an environmental effect?	<input type="checkbox"/>				
c) Conflict with any applicable habitat conservation plan or natural communities' conservation plan?	<input type="checkbox"/>				

Discussion:



XI. Mineral Resources

Environmental Issue Area:	Impact Analyzed in the SPEIR	New Significant Impact due to Unusual Circumstances or Substantial New Information	No Impact or Less than Significant Impact	SPEIR Mitigation Measure(s) Applicable	New Mitigation Measure(s) Required
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Would the project:

a) Result in the loss of availability of a known mineral resource that would be of value to the region and the residents of the state?	<input type="checkbox"/>				
b) Result in the loss of availability of a locally-important mineral resource recovery site delineated on a local general plan, specific plan or other land use plan?	<input type="checkbox"/>				

Discussion:



XII. Noise

Environmental Issue Area:	Impact Analyzed in the SPEIR	New Significant Impact due to Unusual Circumstances or Substantial New Information	No Impact or Less than Significant Impact	SPEIR Mitigation Measure(s) Applicable	New Mitigation Measure(s) Required
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Would the project result in:

a) Exposure of persons to or generation of noise levels in excess of standards established in the local general plan or noise ordinance, or applicable standards of other agencies?	<input type="checkbox"/>				
b) Exposure of persons to or generation of excessive groundborne vibration or groundborne noise levels?	<input type="checkbox"/>				
c) A substantial permanent increase in ambient noise levels in the project vicinity above levels existing without the project?	<input type="checkbox"/>				
d) A substantial temporary or periodic increase in ambient noise levels in the project vicinity above levels existing without the project?	<input type="checkbox"/>				
e) For a project located within an airport land use plan or, where such a plan has not been adopted, within 2 miles of a public airport or public use airport, would the project expose people residing or working in the project area to excessive noise levels?	<input type="checkbox"/>				
f) For a project within the vicinity of a private airstrip, would the project expose people residing or working in the project area to excessive noise levels?	<input type="checkbox"/>				

Discussion:



XIII. Population and Housing

Environmental Issue Area:	Impact Analyzed in the SPEIR	New Significant Impact due to Unusual Circumstances or Substantial New Information	No Impact or Less than Significant Impact	SPEIR Mitigation Measure(s) Applicable	New Mitigation Measure(s) Required
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Would the project:

a) Induce substantial population growth in an area, either directly (e.g., by proposing new homes and businesses) or indirectly (e.g., through extension of roads or other infrastructure)?	<input type="checkbox"/>				
b) Displace substantial numbers of existing housing, necessitating the construction of replacement housing elsewhere?	<input type="checkbox"/>				
c) Displace substantial numbers of people necessitating the construction of replacement housing elsewhere?	<input type="checkbox"/>				

Discussion:



XIV. Public Services

Environmental Issue Area:	Impact Analyzed in the SPEIR	New Significant Impact due to Unusual Circumstances or Substantial New Information	No Impact or Less than Significant Impact	SPEIR Mitigation Measure(s) Applicable	New Mitigation Measure(s) Required
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Would the project result in substantial adverse physical impacts associated with the provision of new or physically altered governmental facilities, need for new or physically altered governmental facilities, the construction of which could cause significant environmental impacts, in order to maintain acceptable service ratios, response times or other performance objectives for any of the public services:

a) Fire Protection?	<input type="checkbox"/>				
b) Police Protection?	<input type="checkbox"/>				
c) Schools?	<input type="checkbox"/>				
d) Parks?	<input type="checkbox"/>				
e) Other public facilities?	<input type="checkbox"/>				

Discussion:



XV. Recreation

Environmental Issue Area:	Impact Analyzed in the SPEIR	New Significant Impact due to Unusual Circumstances or Substantial New Information	No Impact or Less than Significant Impact	SPEIR Mitigation Measure(s) Applicable	New Mitigation Measure(s) Required
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Would the project:

a) Would the project increase the use of existing neighborhood and regional parks or other recreational facilities such that substantial physical deterioration of the facility would occur or be accelerated?	<input type="checkbox"/>				
b) Does the project include recreational facilities or require the construction or expansion of recreational facilities, which might have an adverse physical effect on the environment?	<input type="checkbox"/>				

Discussion:



XVI. Transportation/Traffic

Environmental Issue Area:	Impact Analyzed in the SPEIR	New Significant Impact due to Unusual Circumstances or Substantial New Information	No Impact or Less than Significant Impact	SPEIR Mitigation Measure(s) Applicable	New Mitigation Measure(s) Required
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Would the project:

a) Conflict with an applicable plan, ordinance or policy establishing measures of effectiveness for the performance of the circulation system, taking into account all modes of transportation including mass transit and non-motorized travel and relevant components of the circulation system, including but not limited to intersections, streets, highways and freeways, pedestrian and bicycle paths, and mass transit?	<input type="checkbox"/>				
b) Conflict with an applicable congestion management program, including, but not limited to level of service standards and travel demand measures, or other standards established by the county congestion management agency for designated roads or highways?	<input type="checkbox"/>				
c) Result in a change in air traffic patterns, including either an increase in traffic levels or change in location that result in substantial safety risks?	<input type="checkbox"/>				
d) Substantially increase hazards due to a design feature (e.g., sharp curves or dangerous intersections) or incompatible uses (e.g., farm equipment)?	<input type="checkbox"/>				
e) Result in inadequate emergency access?	<input type="checkbox"/>				



XVI. Transportation/Traffic

Environmental Issue Area:	Impact Analyzed in the SPEIR	New Significant Impact due to Unusual Circumstances or Substantial New Information	No Impact or Less than Significant Impact	SPEIR Mitigation Measure(s) Applicable	New Mitigation Measure(s) Required
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Would the project:

f) Conflict with adopted policies, plans, or programs regarding public transit, bicycle, or pedestrian facilities, or otherwise decrease the performance or safety of such facilities?	<input type="checkbox"/>				
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Discussion:



XVII. Utilities and Service Systems

Environmental Issue Area:	Impact Analyzed in the SPEIR	New Significant Impact due to Unusual Circumstances or Substantial New Information	No Impact or Less than Significant Impact	SPEIR Mitigation Measure(s) Applicable	New Mitigation Measure(s) Required
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Would the project:

a) Exceed wastewater treatment requirements of the applicable Regional Water Quality Control Board?	<input type="checkbox"/>				
b) Require or result in the construction of new water or wastewater treatment facilities or expansion of existing facilities, the construction of which could cause significant environmental effects?	<input type="checkbox"/>				
c) Require or result in the construction of new storm water drainage facilities or expansion of existing facilities, the construction of which could cause significant environmental effects?	<input type="checkbox"/>				
d) Have sufficient water supplies available to serve the project from existing entitlements and resources, or are new or expanded entitlements needed?	<input type="checkbox"/>				
e) Result in a determination by the wastewater treatment provider, which serves or may serve the project that it has adequate capacity to serve the project's projected demand in addition to the provider's existing commitments?	<input type="checkbox"/>				
f) Be served by a landfill with sufficient permitted capacity to accommodate the project's solid waste disposal needs?	<input type="checkbox"/>				



XVII. Utilities and Service Systems

Environmental Issue Area:	Impact Analyzed in the SPEIR	New Significant Impact due to Unusual Circumstances or Substantial New Information	No Impact or Less than Significant Impact	SPEIR Mitigation Measure(s) Applicable	New Mitigation Measure(s) Required
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Would the project:

g) Comply with federal, state, and local statutes and regulations related to solid waste?	<input type="checkbox"/>				
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Discussion:



XVIII. Mandatory Findings

Environmental Issue Area:	Impact Analyzed in the SPEIR	New Significant Impact due to Unusual Circumstances or Substantial New Information	No Impact or Less than Significant Impact	SPEIR Mitigation Measure(s) Applicable	New Mitigation Measure(s) Required
a) Does the project have the potential to degrade the quality of the environment, substantially reduce the habitat of a fish or wildlife species, cause a fish or wildlife population to drop below self-sustaining levels, threaten to eliminate a plant or animal community, reduce the number or restrict the range of a rare or endangered plant or animal, or eliminate important examples of the major periods of California history or prehistory?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b) Does the project have impacts that are individually limited, but cumulatively considerable? (“Cumulatively considerable” means that the incremental effects of a project are considerable when viewed in connection with the effects of past projects, the effects of other current projects, and the effects of probable future projects.)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c) Does the project have environmental effects, which will cause substantial adverse effects on human beings, either directly or indirectly?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Discussion:					

Authority: Public Resources Code 21083



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Attachment A. Category 1 - Conveyance (Capacity/Condition) Project (Hardscape Environ)



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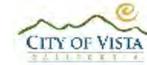


Table 3-3. Capital Improvement Projects (Capacity) – Vista Service Area

CSMP CIP No.	2008 SMPU CIP No. ¹	Description	Project Category ²	Linear Feet	Map Reference
Near Term Projects					
Vista EX_V1	V5-Eucalyptus Upsize	Upsize existing pipeline in Eucalyptus Avenue and S. Citrus Avenue from 10 inch to 12 inch. Installation via traditional open-cut trench.	Hardscape	1,379	3-4
Vista EX_V2	V8 – Monte Vista / S. Santa Fe Phase 2 Upsize	Upsize existing pipeline in S. Santa Fe Avenue and Civic Center Drive from 8 inch to 10 inch. Installation via traditional open-cut trench.	Hardscape	69	3-4
Build Out					
Vista BO_V1	V4 – Broadway / Main / Santa Fe Upsize	Upsize existing pipeline in E. Broadway Avenue between S. Santa Fe Avenue and S. Citrus Avenue from 18 inch to 21 inch. Installation via traditional open-cut trench.	Hardscape	1,086	3-4
Vista BO_V2	V8 – Monte Vista / S. Santa Fe Phase 2 Upsize	Upsize existing pipeline in S. Santa Fe Avenue and Civic Center Drive from 8 inch to 10 inch. Installation via traditional open-cut trench.	Hardscape	706	3-4
Vista BO_V3	V7 – Vista South Santa Fe Phase 1 Upsize	Upsize existing pipeline in S. Santa Fe Avenue and Buena Vista Creek from 12 inch to 18 inch. Installation via traditional open-cut trench.	Hardscape	137	3-4
Vista BO_V4	V9 – North Santa Fe Upsize	Upsize existing pipeline in N. Santa Fe Avenue and W. Los Angeles Drive/Townsite Drive from 15 inch to 18 inch. Installation via traditional open-cut trench.	Hardscape	409	3-4

Source: HDR 2017

¹ Some of the previous capacity improvements are no longer required.

² Project categories are further defined in Chapter 4

³ BO-V5 may be excluded by diverting flow to a new 24 inch pipeline, north of SR-78.



Table 3-4. Capital Improvement Projects (Capacity) – Buena Service Area

CSMP CIP No.	2008 SMPU CIP No. ¹	Project Description	Project Category ²	Linear Feet	Map Reference
Build Out					
Buena BO_B2	--	Upsize existing pipeline between Grand Avenue and Green Oak Road near Aqua Hedionda Creek: 12 inch to 15 inch. Installation via traditional open-cut trench.	Hardscape	98	3-5

Source: HDR 2017

¹ Some of the previous capacity improvements are no longer required.

² Project categories are further defined in Chapter 4.

Table 1 - Hardscape

2017 Condition CIP Project:	Project Category	Length	Insp_Date2
B01019-B01020	Hardscape	477	2012
B01090-B01091	Hardscape	96	2009
B02080-B02081	Hardscape	300	2007
B03060-B03061	Hardscape	397	2008
B03128-B03129	Hardscape	277	2011
B03156-B03157	Hardscape	183	2011
B03157-B03166.F0	Hardscape	123	2011
B04032-B04033	Hardscape	171	2008
B04047-B04048	Hardscape	280	2007
B04054.J0-B04054.K0	Hardscape	47	2009
B08030-B08032	Hardscape	365	2008
B08065.D0-B08065	Hardscape	54	2010
B09002-B09003	Hardscape	269	2009
B09074-B09075	Hardscape	113	2009
B09077-B09078	Hardscape	326	2009
B10020-B10021	Hardscape	225	2008
B11077-B11078	Hardscape	163	2008
B11095-B11096	Hardscape	160	2009
B13043-B13222.B0	Hardscape	317	2008
B13103.E0-B13103.G0	Hardscape	202	2010
B13105.A0-B13105	Hardscape	162	2011
B13189-B13190	Hardscape	165	2010
B13213-B13214	Hardscape	217	2011
B14078-B14079	Hardscape	343	2012
B14095-B14097	Hardscape	263	2009
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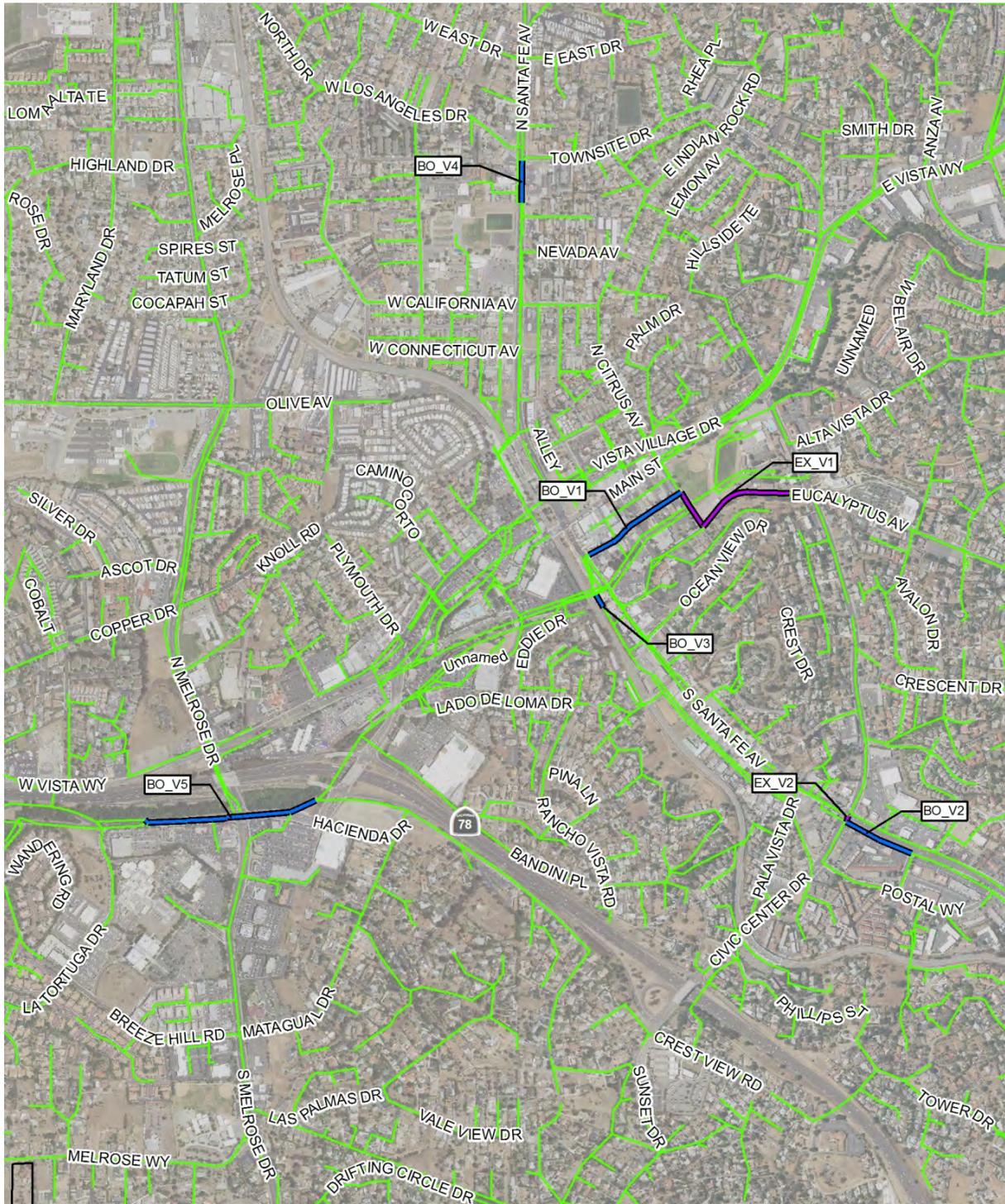
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Figure 3-7. CIP Capacity-Related Projects (City Service Area)



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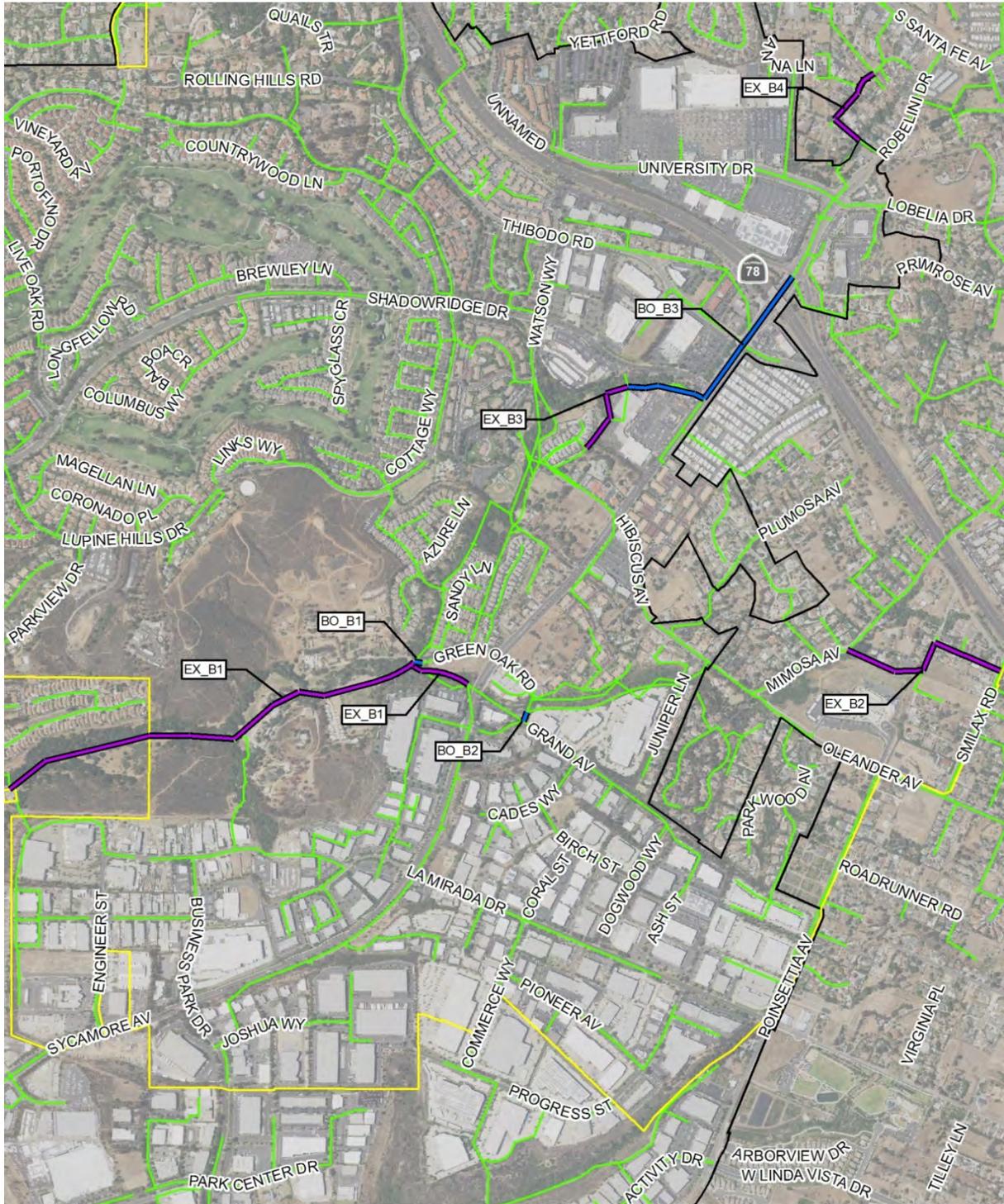
- City of Vista
- Buena Sanitation District
- Sanitary Sewer Collection System
- 2017 CIP Capacity Improvements Build Out
- 2017 CIP Capacity Improvements Near Term

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Figure 3-8. CIP Capacity-Related Projects (District Service Area)



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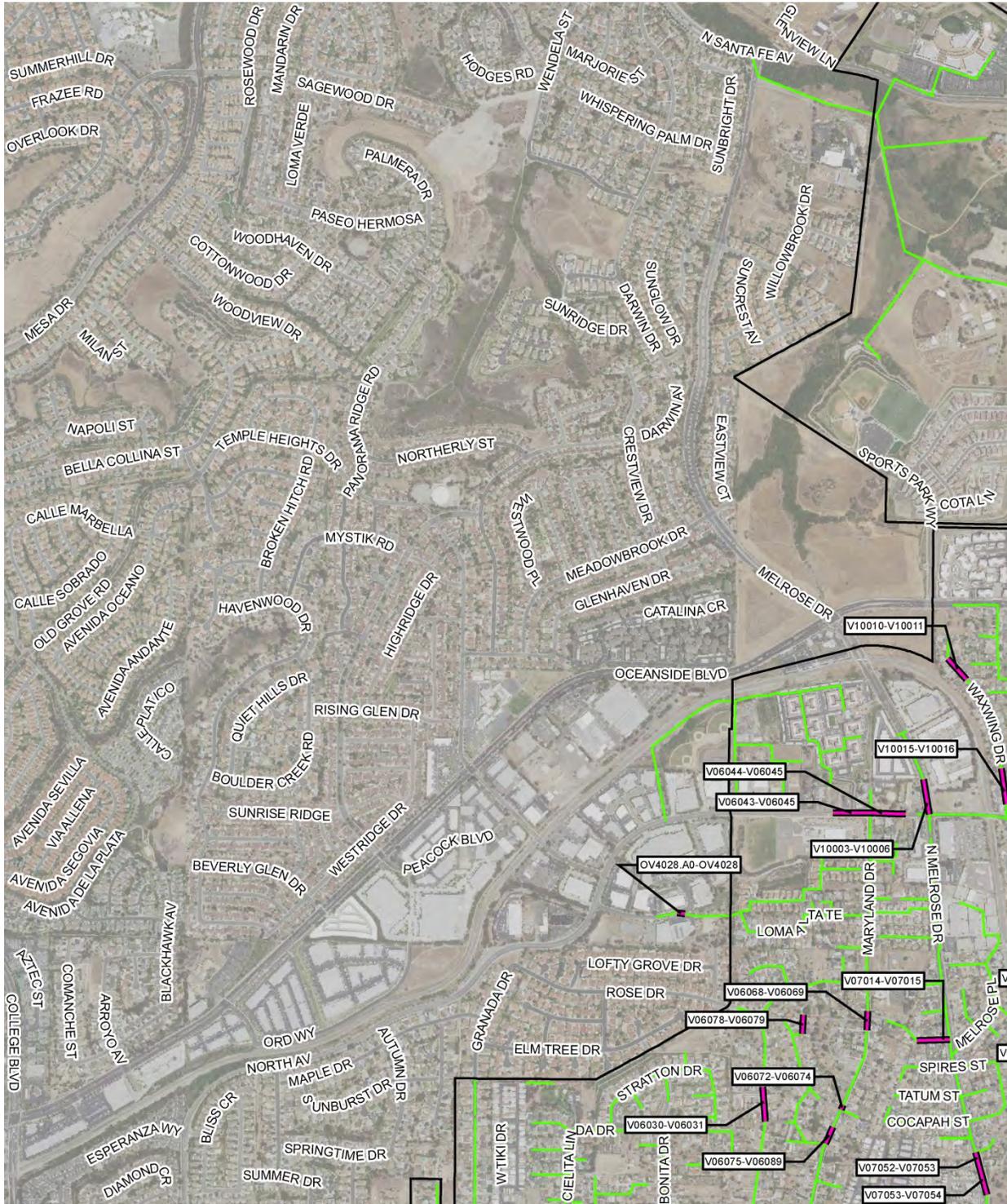
- City of Vista
- Buena Sanitation District
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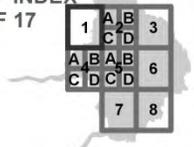
Figure 3-10. Condition-Related Projects under the Proposed 2017 CSMP (Map 1)



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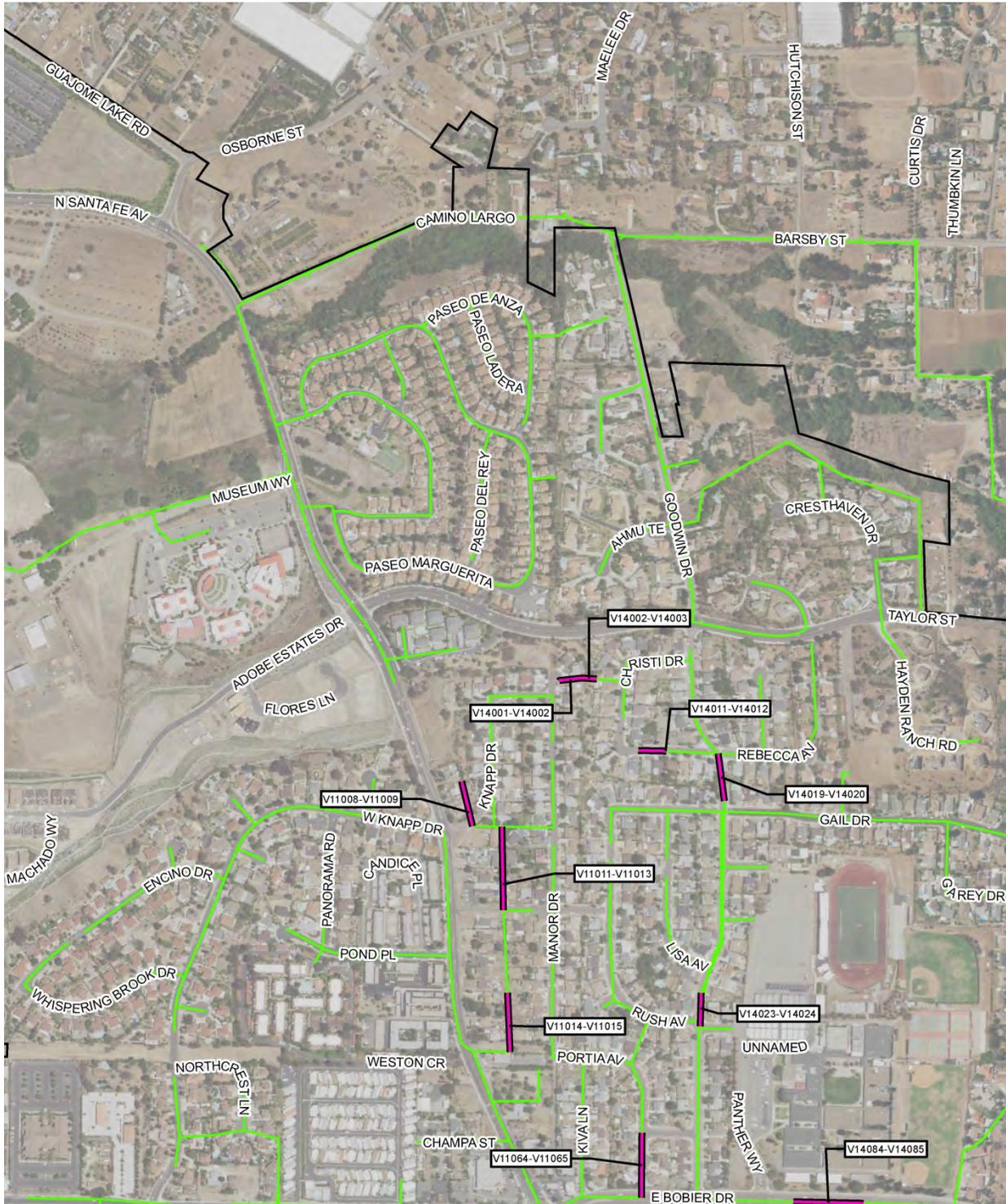
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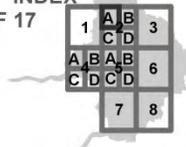
Figure 3-11A. Condition-Related Projects under the Proposed 2017 CSMP (Map 2)



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- CIP Condition Improvements Near Term

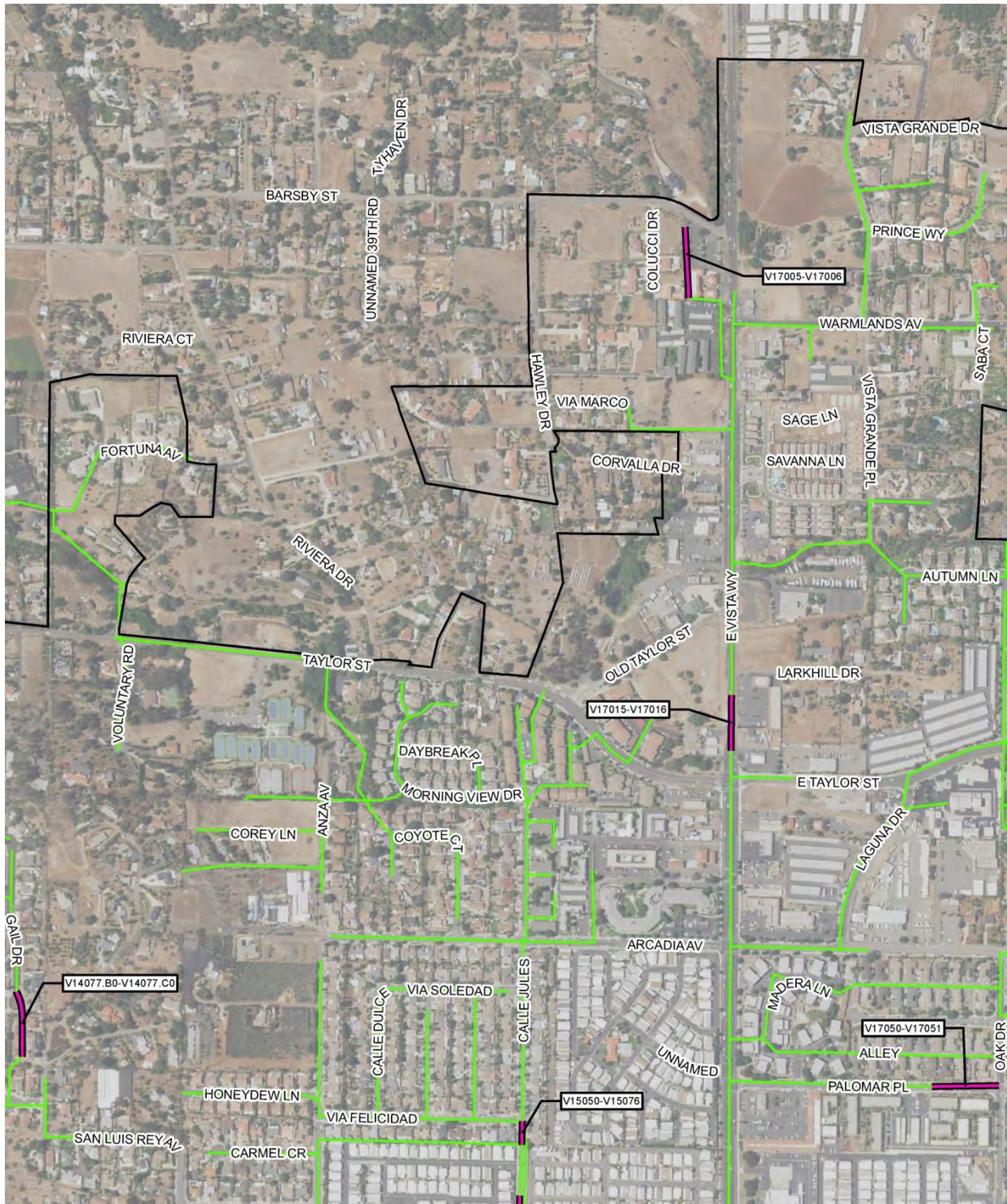
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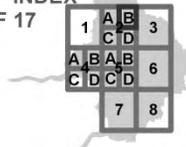
Figure 3-11B. Condition-Related Projects under the Proposed 2017 CSMP (Map 3)



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- Buena Sanitation District
- Sanitary Sewer Collection System
- CIP Condition Improvements Near Term

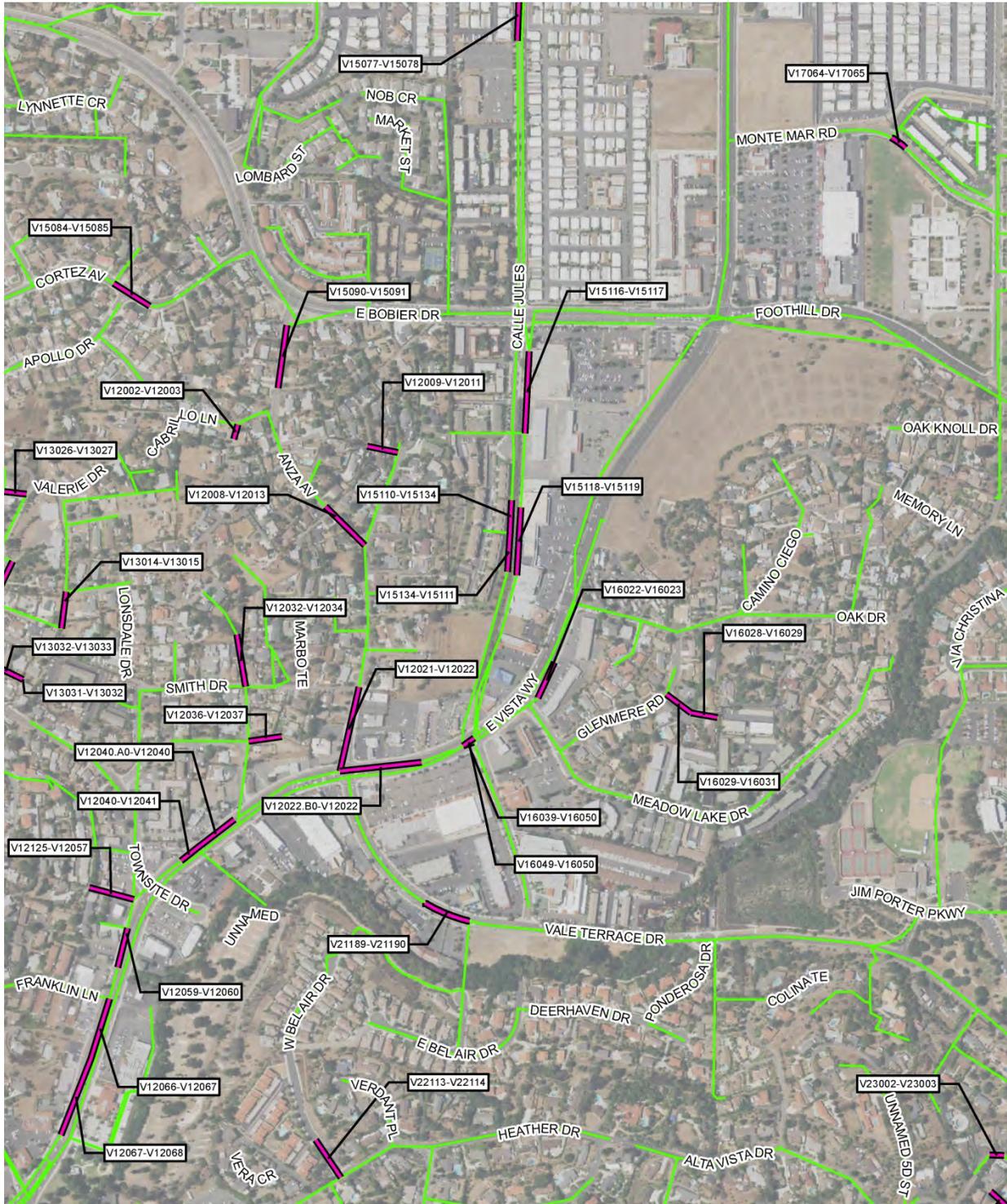
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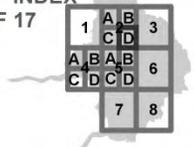
Figure 3-11D. Condition-Related Projects under the Proposed 2017 CSMP (Map 5)



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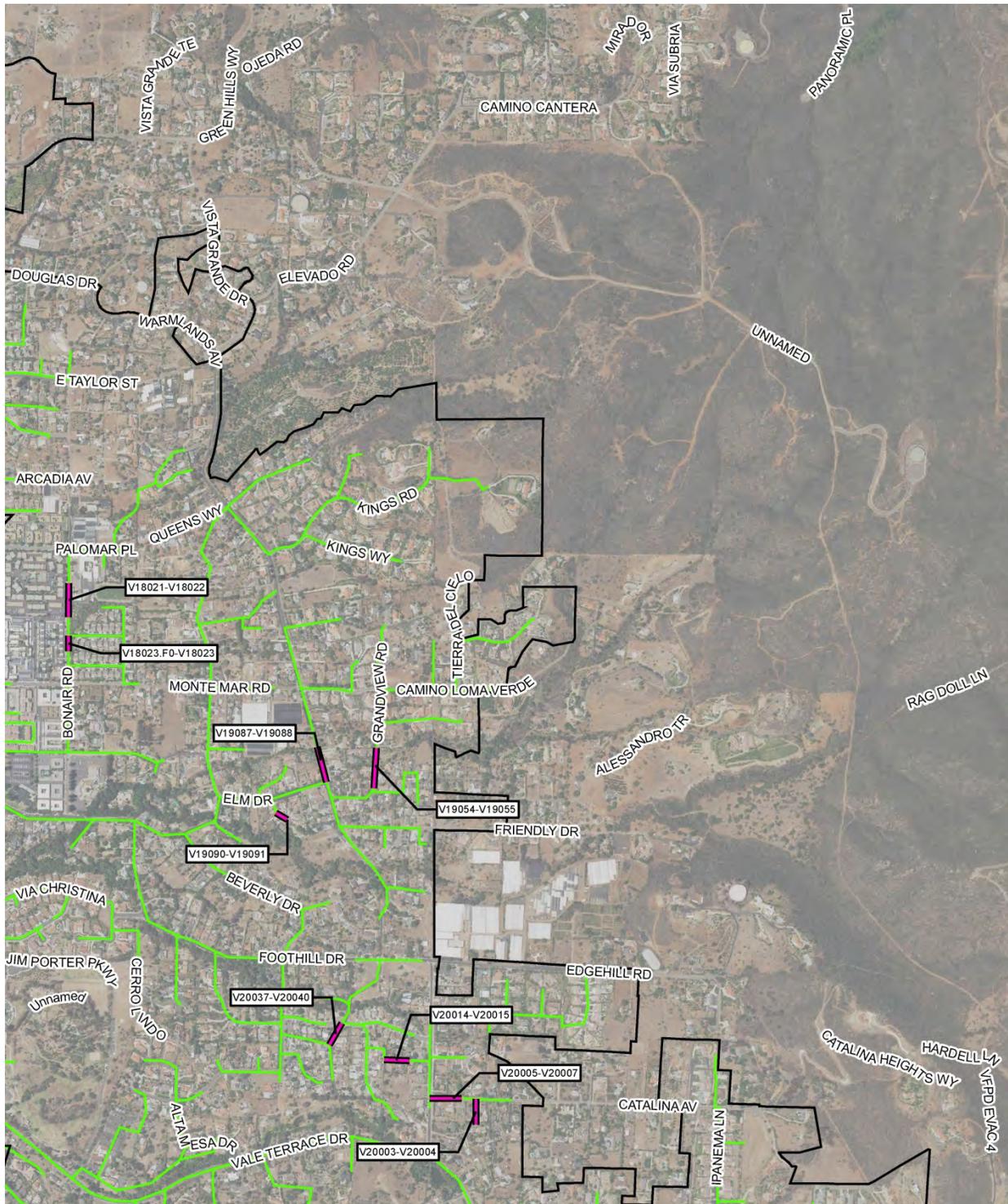
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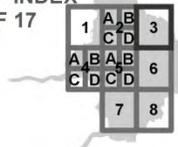
Figure 3-12. Condition-Related Projects under the Proposed 2017 CSMP (Map 6)



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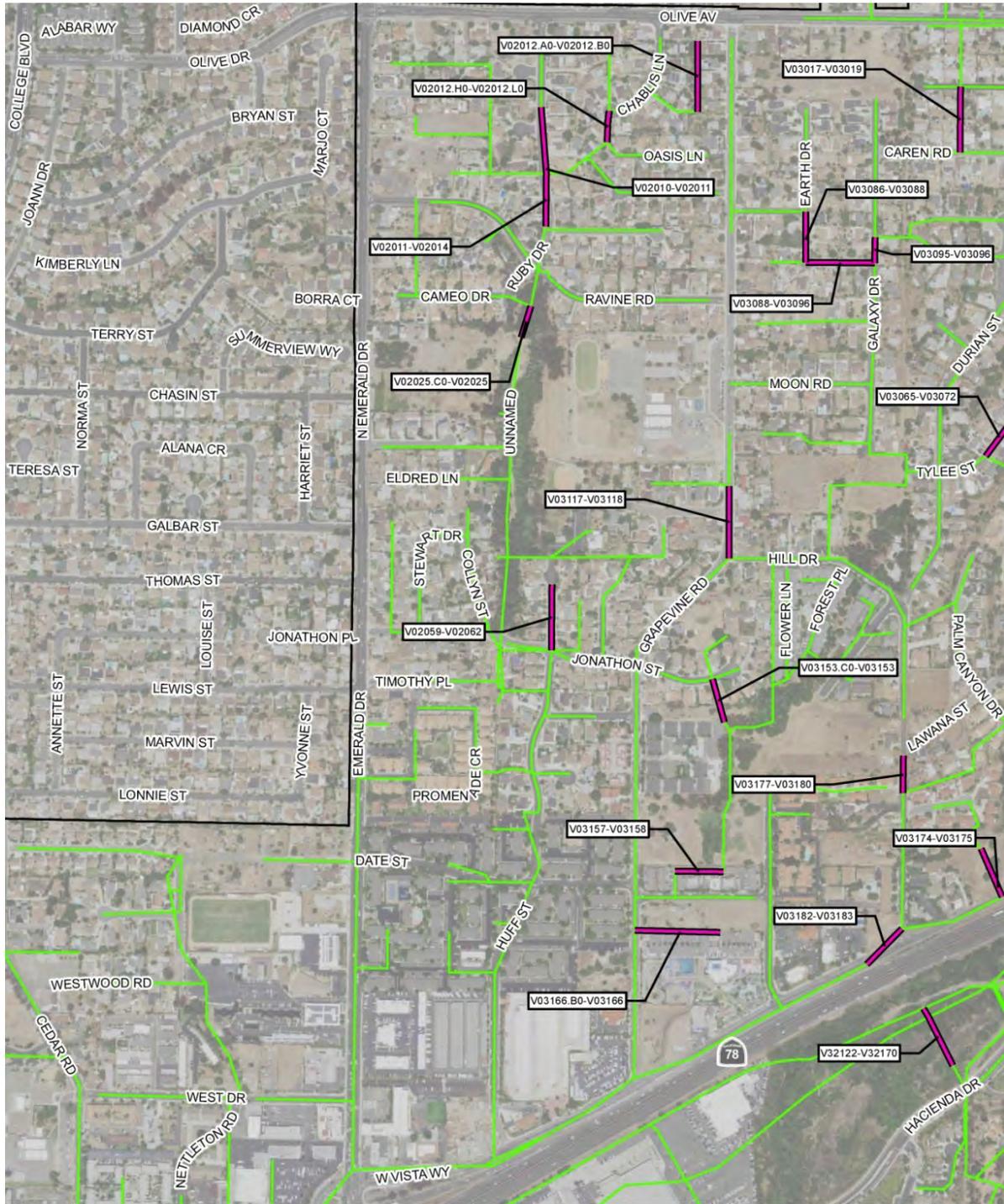


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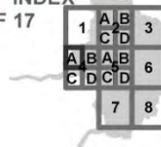
Figure 3-13A. Revised, Condition-Related Projects under the Proposed 2017 CSMP (Map 7)



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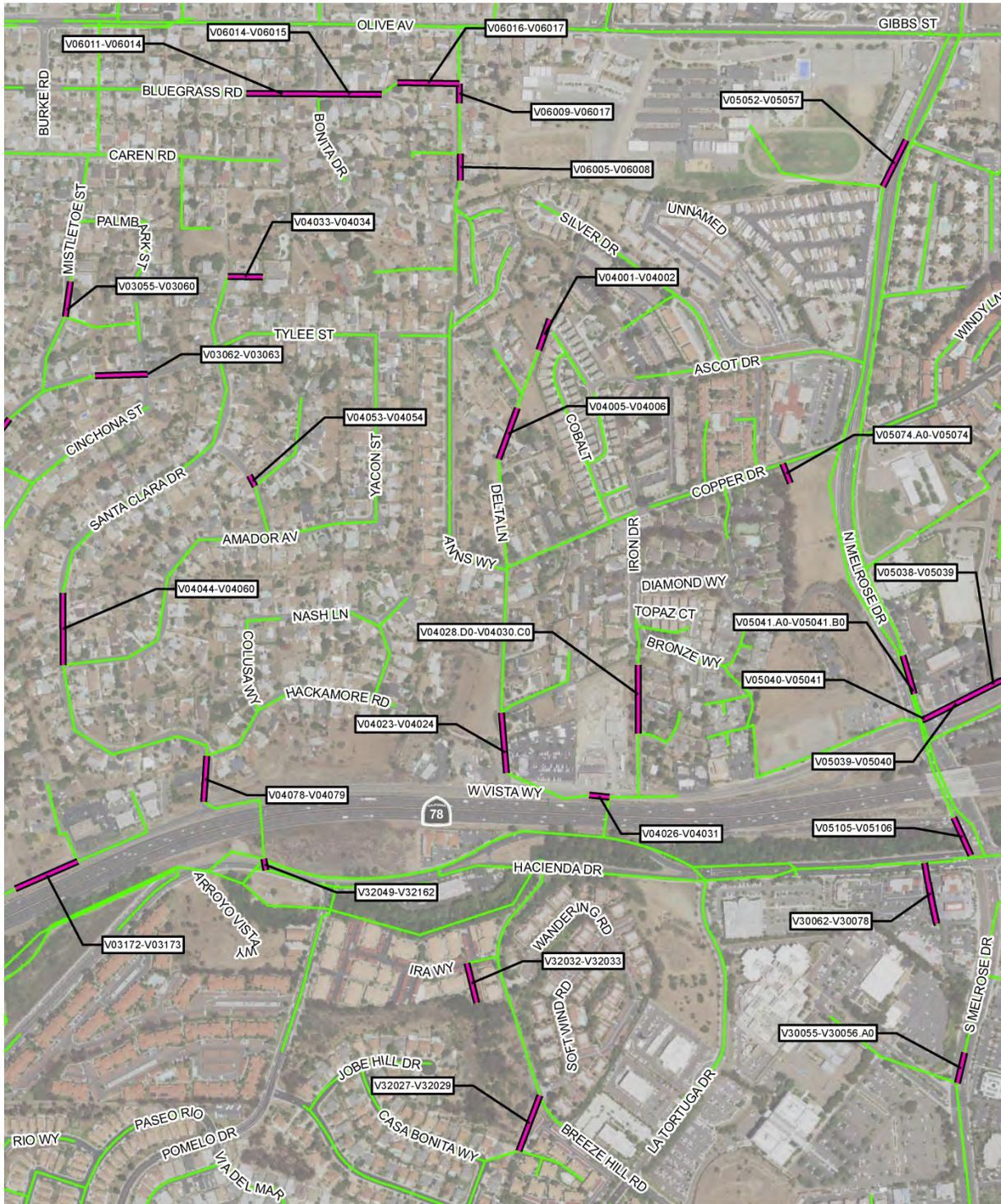
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Figure 3-13B. Condition-Related Projects under the Proposed 2017 CSMP (Map 8)



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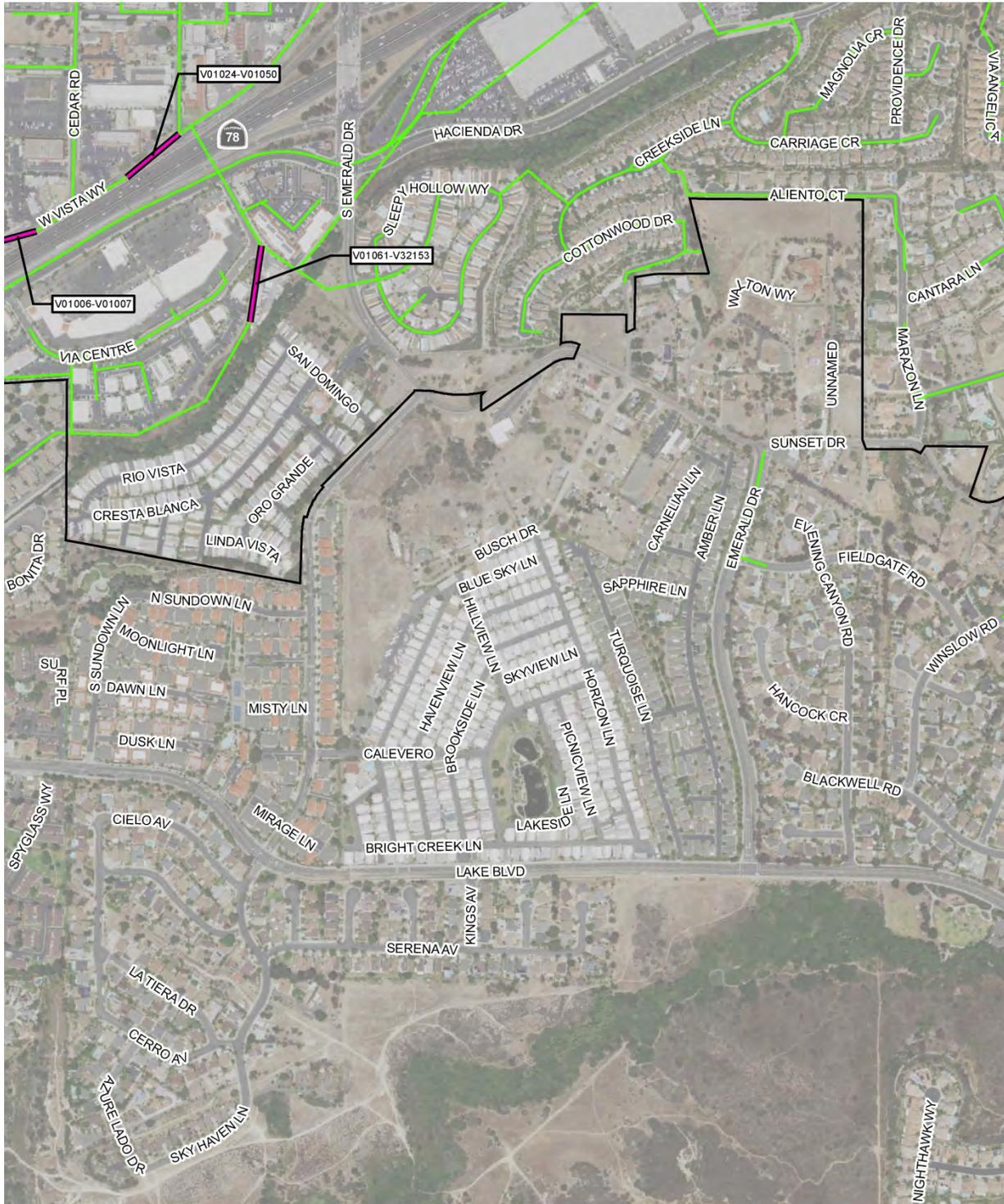
- City of Vista
- Buena Sanitation District
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	C	D	
A	B	B	6
C	C	D	
7			8

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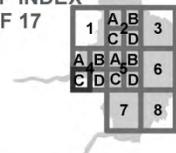
Figure 3-13C. Condition-Related Projects under the Proposed 2017 CSMP (Map 9)



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- City of Vista
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- CIP Condition Improvements Near Term

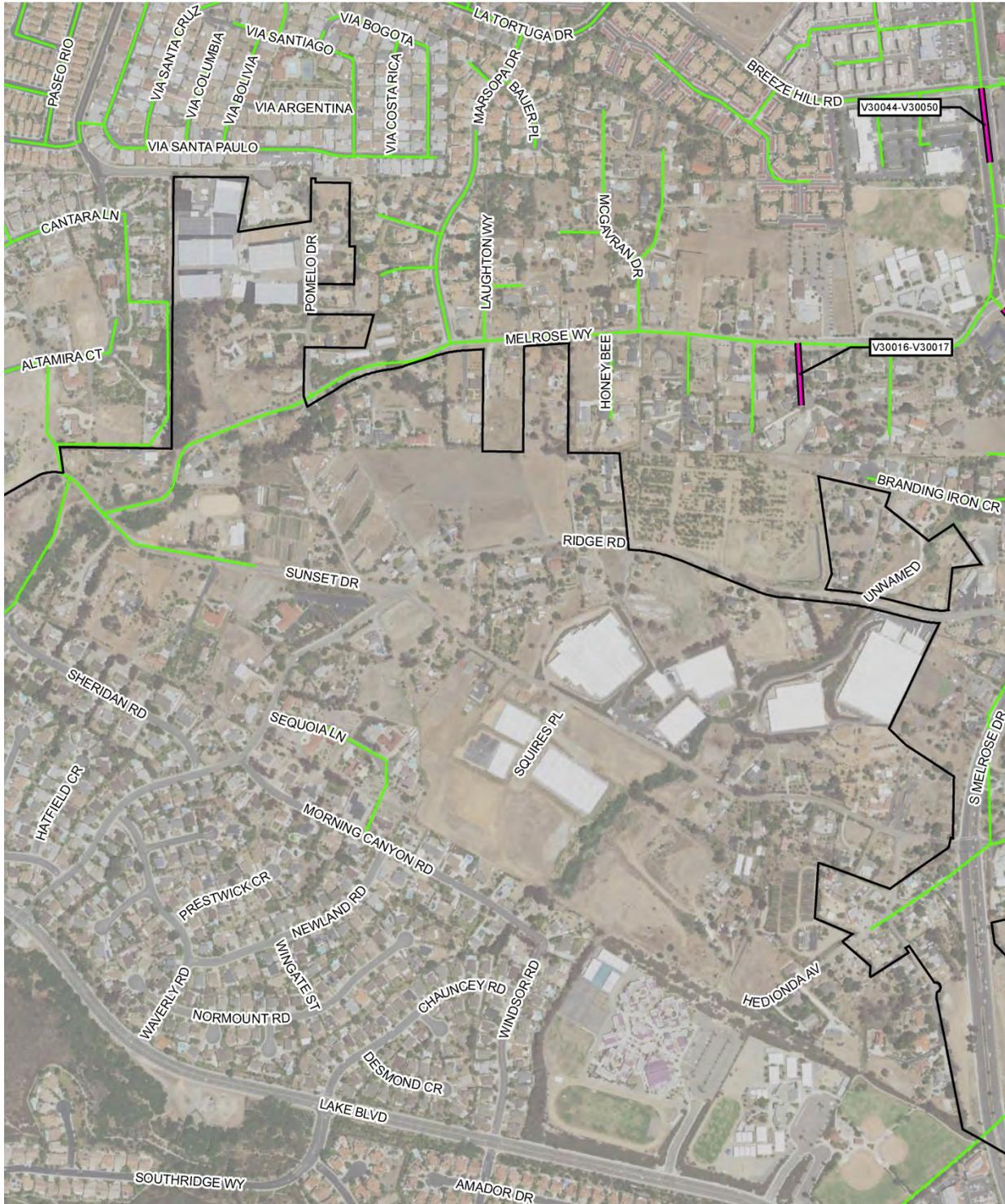
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Figure 3-13D. Condition-Related Projects under the Proposed 2017 CSMP (Map 10)



- LEGEND**
- City of Vista
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 - CIP Condition Improvements Near Term

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A, B	A, B	6
C, D	C, D	
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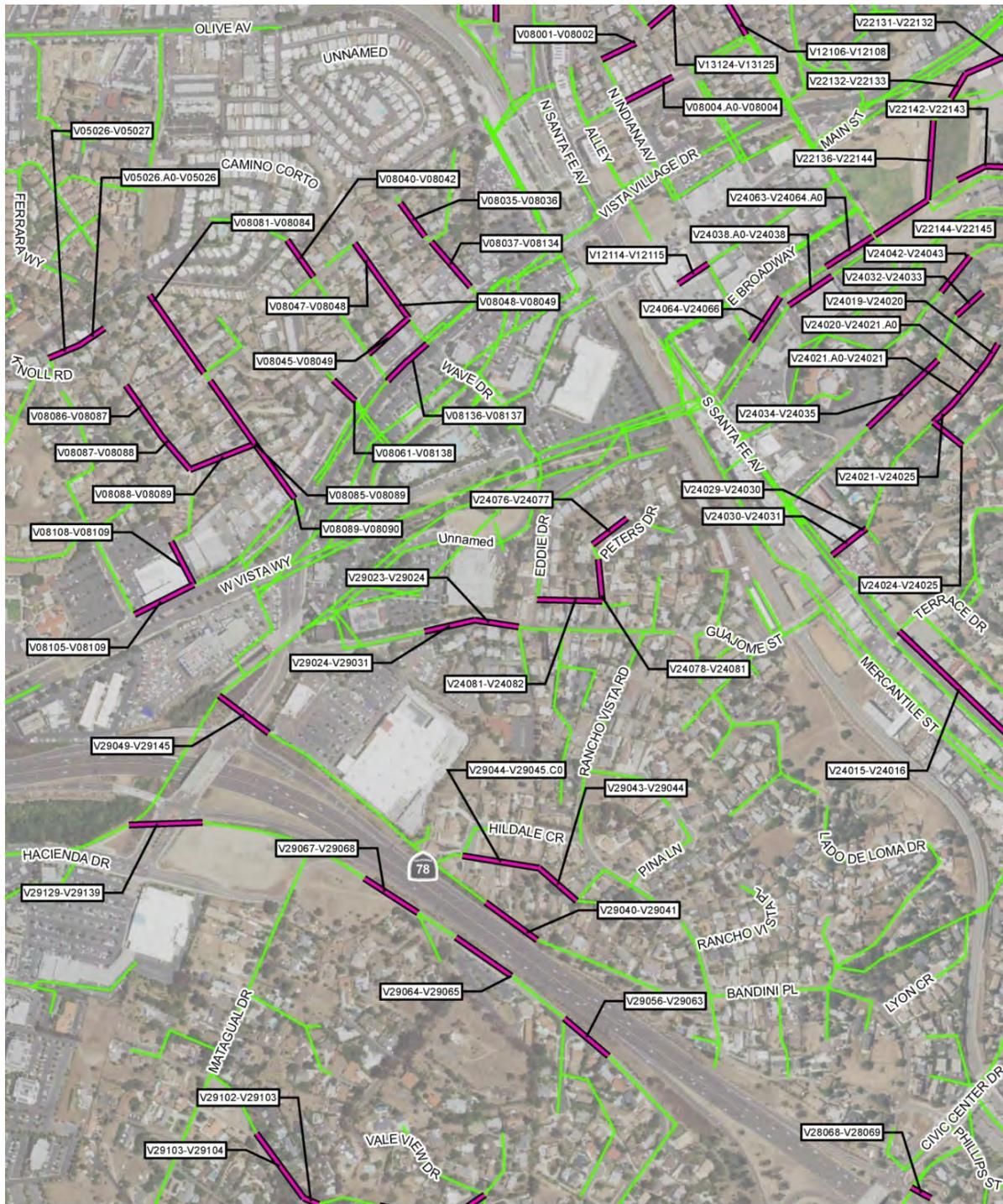


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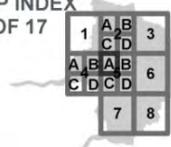
Figure 3-14A. Revised, Condition-Related Projects under the Proposed 2017 CSMP (Map 11)



LEGEND

- City of Vista
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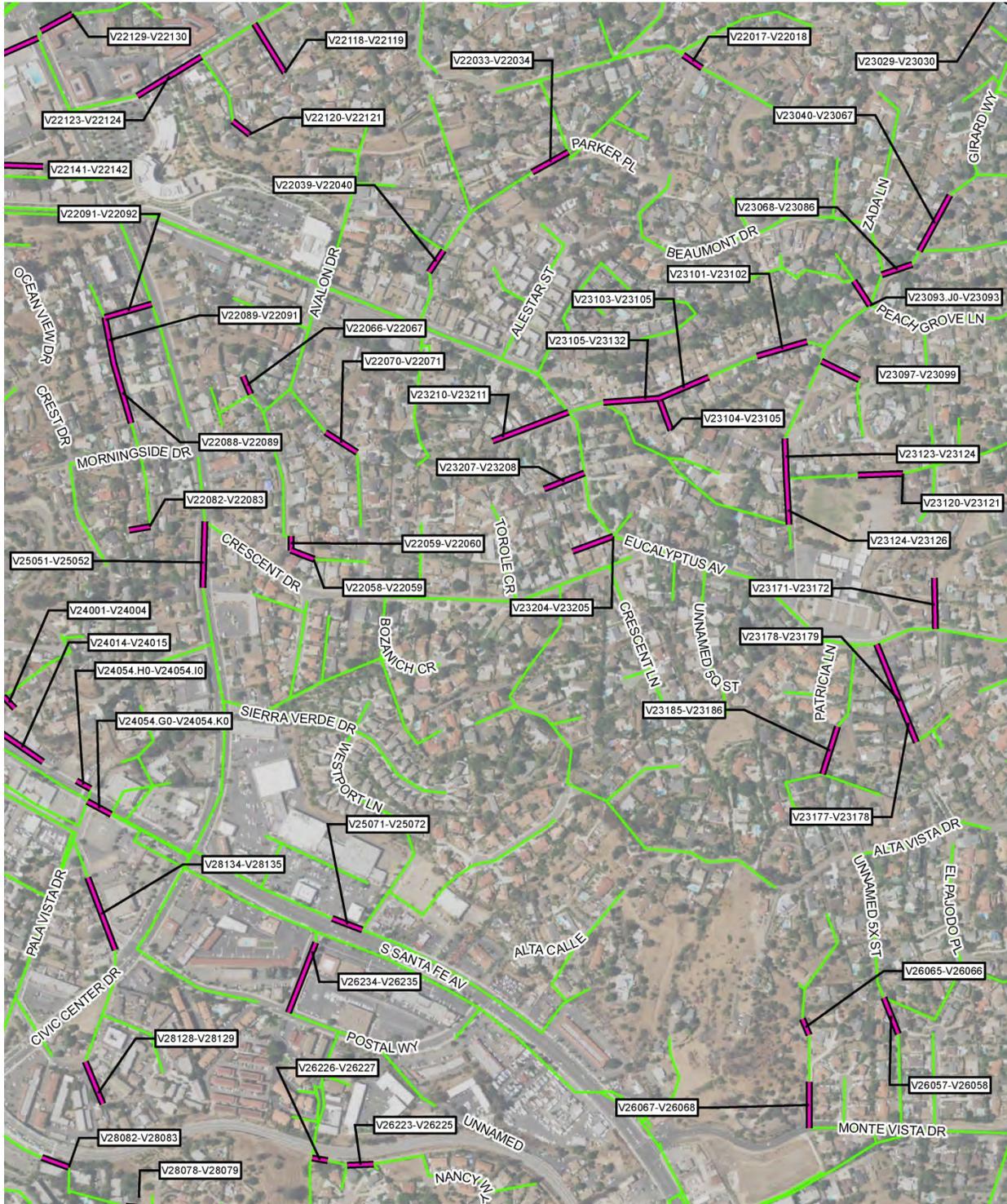
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Figure 3-14B. Condition-Related Projects under the Proposed 2017 CSMP (Map 12)



LEGEND

- City of Vista
- Buena Sanitation District
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- CIP Condition Improvements Near Term

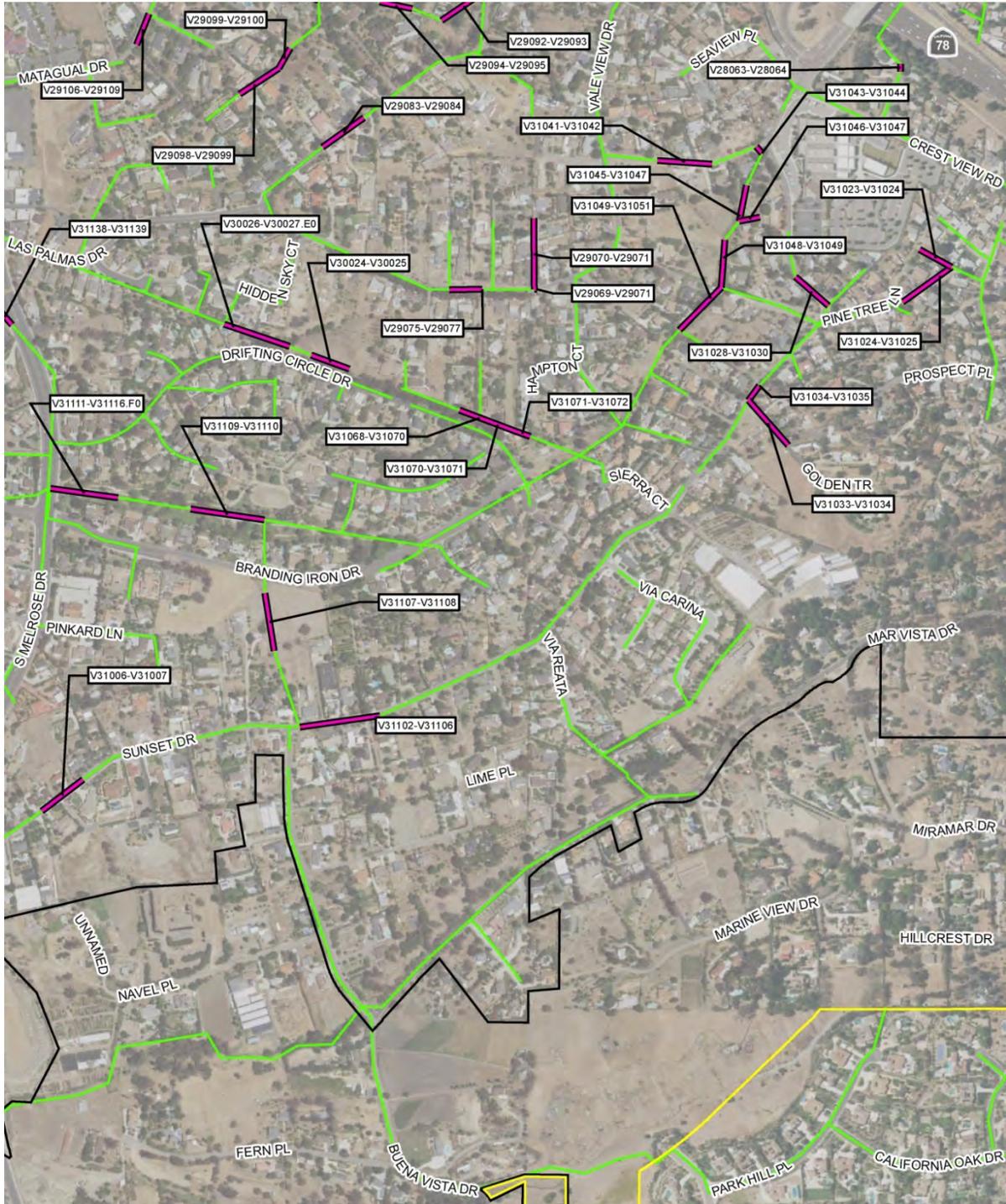
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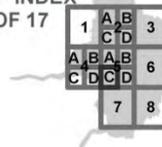
Figure 3-14C. Revised, Condition-Related Projects under the Proposed 2017 CSMP (Map 13)



LEGEND

- City of Vista
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- CIP Condition Improvements Near Term

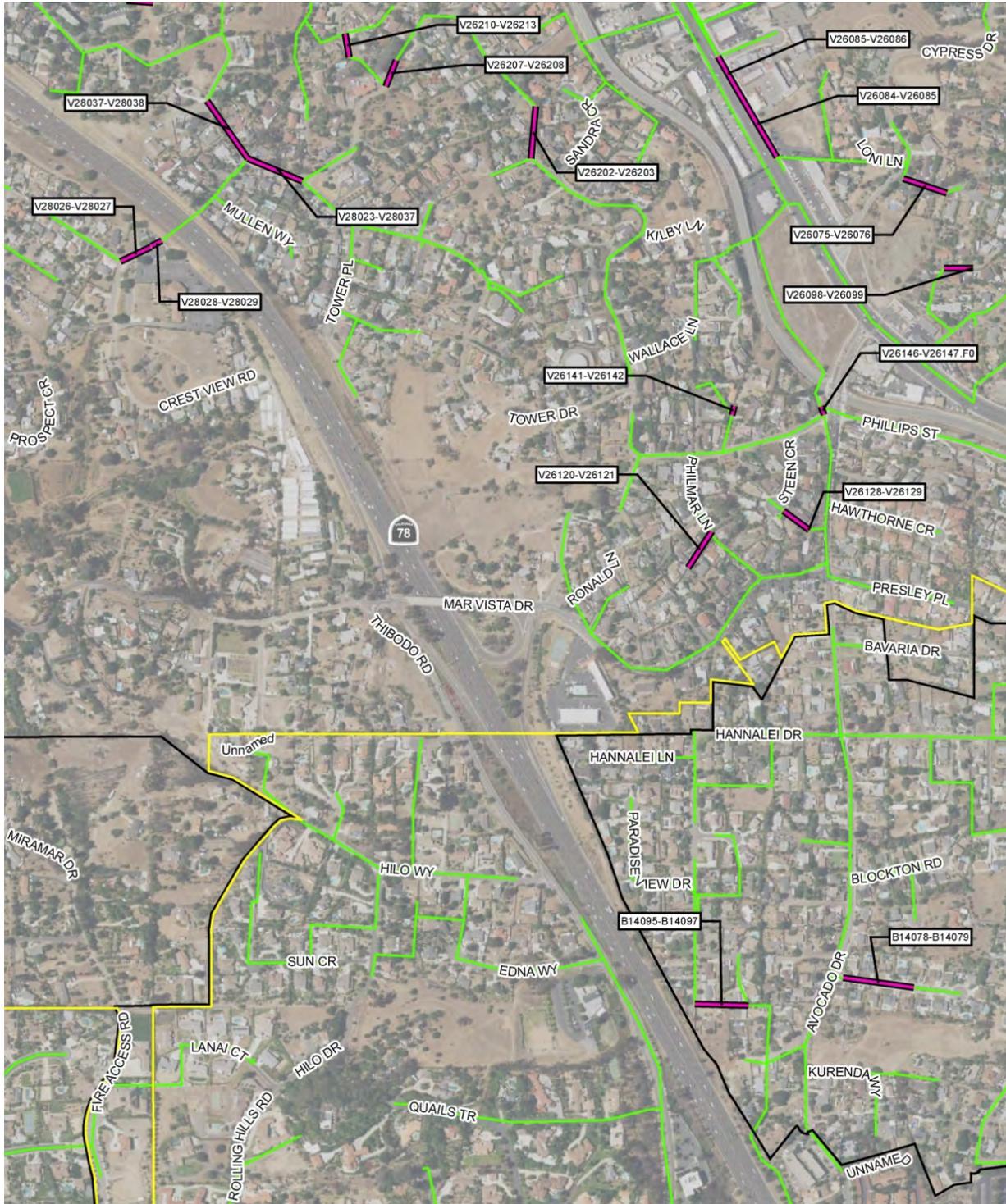
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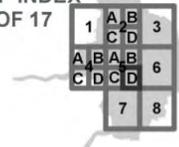
Figure 3-14D. Condition-Related Projects under the Proposed 2017 CSMP (Map 14)



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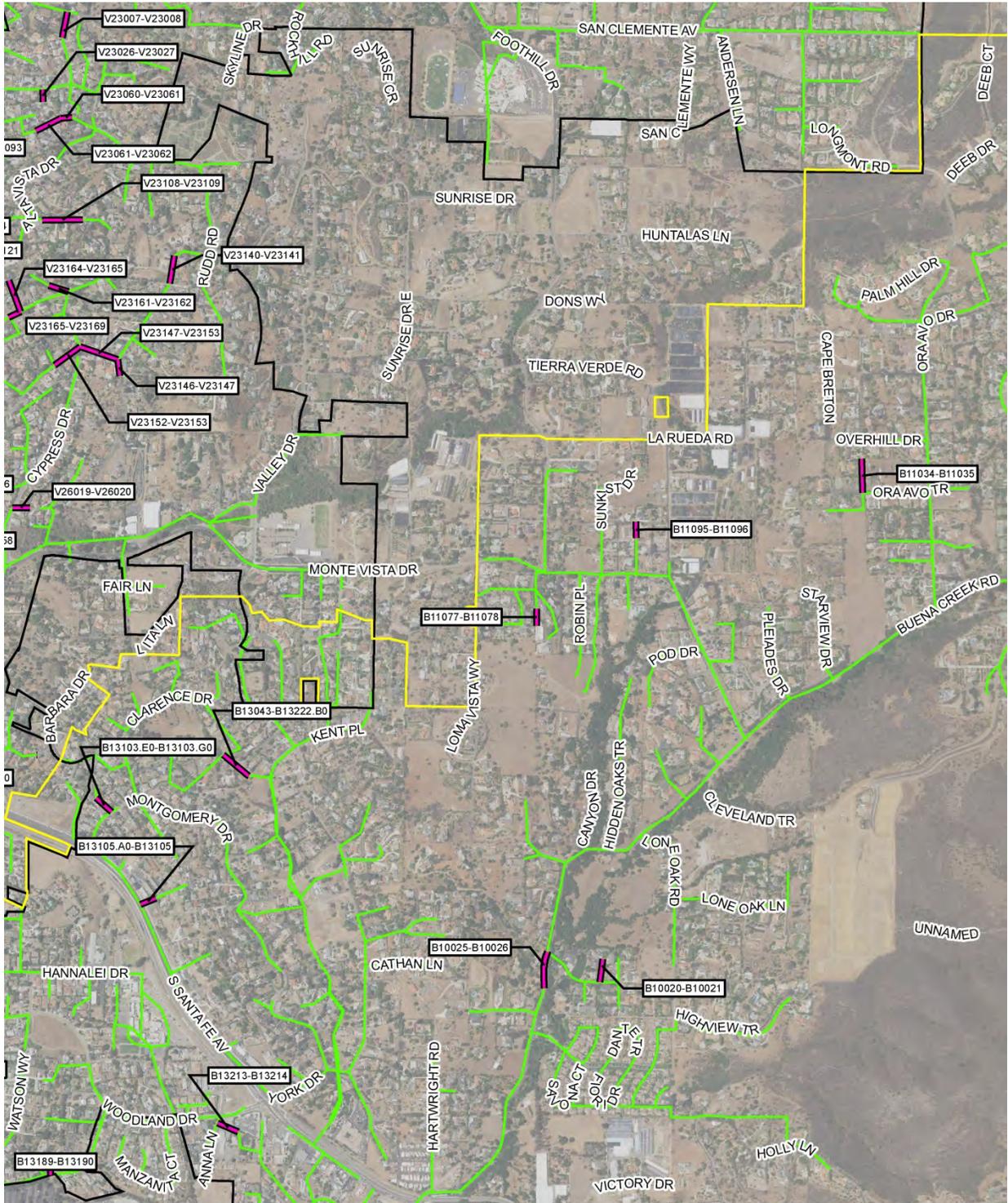
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Figure 3-15. Condition-Related Projects under the Proposed 2017 CSMP (Map 15)



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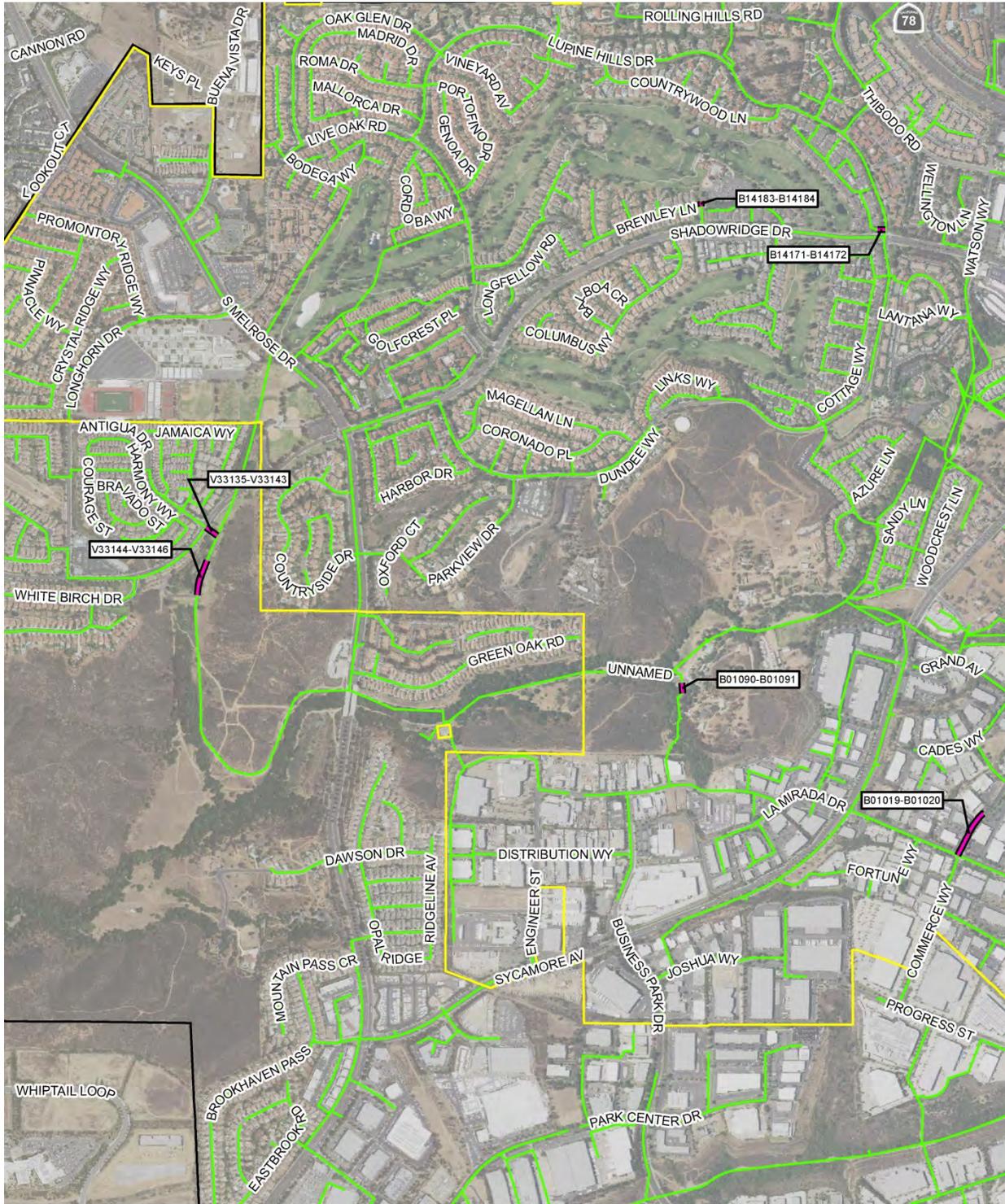
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A	A B	6
C	C D	
7		8



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Figure 3-16. Condition-Related Projects under the Proposed 2017 CSMP (Map 16)



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Attachment B. Category 2 - Conveyance (Capacity/Condition) Project (Cross County Environs)



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Table 3-3. Capital Improvement Projects (Capacity) – Vista Service Area

CSMP CIP No.	2008 SMPU CIP No. ¹	Description	Project Category ²	Linear Feet	Map Reference
Build Out					
Vista BO_V5 ³	V2 – Hacienda / Vista Village Upsize	Upsize existing pipelines in Hacienda Drive between La Tortuga Drive and Vista Village Drive from 30 inch to 36 inch. Installation via traditional open-cut trench and trenchless construction methods.	Cross-Country	1,707	3-4

Source: HDR 2017

¹ Some of the previous capacity improvements are no longer required.

² Project categories are further defined in Chapter 4

³ BO-V5 may be excluded by diverting flow to a new 24 inch pipeline, north of SR-78.

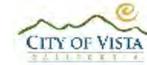


Table 3-4. Capital Improvement Projects (Capacity) – Buena Service Area

CSMP CIP No.	2008 SMPU CIP No. ¹	Project Description	Project Category ²	Linear Feet	Map Reference
Near Term Projects					
Buena EX_B1	B1 – Green Oak Upsize	Upsize existing pipelines along Agua Hedionda Creek and Green Oak Drive east of the Buena Lift Station: 12 inch to 15 inch, 18 inch to 21 /27 inch, 21 inch to 24 inch. Installation via traditional open-cut trench and/or trenchless construction methods.	Cross-Country	5,079	3-5
Buena EX_B2	--	Upsize existing pipeline in Poinsettia Avenue between Mimosa Avenue and Smilax Road. 8 inch to 10 inch. Installation via traditional open-cut trench.	Cross-Country	1,768	3-5
Buena EX_B3	B2 – Watson Upsize and Realignment	Upsize existing pipelines near Arbor Glen Lane at Shadowridge Drive and Sycamore Avenue: 15 inch to 18 inch. Installation via traditional open-cut trench.	Cross-Country	863	3-5
Buena EX_B4	B3 – El Valle Opulento Upsize	Upsize existing pipeline in El Valle Opulento: 10 inch to 12 inch. [Installation via traditional open-cut trench.]	Cross-Country	916	3-5
Build Out					
Buena BO_B1	--	Upsize existing pipeline along Agua Hedionda Creek and Green Oak Drive near Sycamore Avenue: 24 inch to 27 inch. Installation via traditional open-cut trench.	Cross-Country	79	3-5
Buena BO_B3	B2 - Waton Upsize and Realignment	Upsize existing pipeline in Shadowridge Drive and Sycamore Avenue: 15 inch to 18 inch. Installation via traditional open-cut trench and/or trenchless construction methods.	Cross-Country	2,228	3-5

Source: HDR 2017

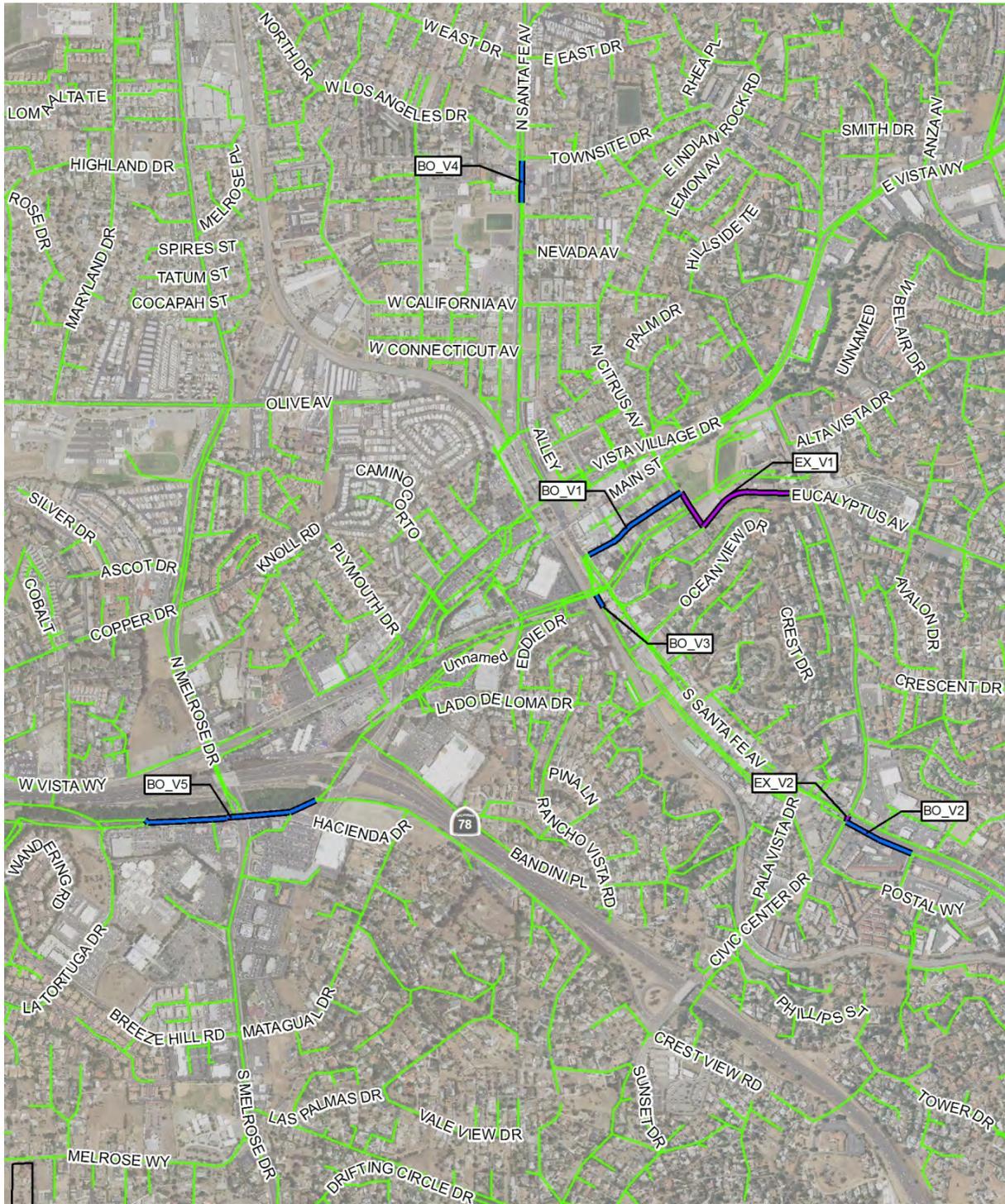
¹ Some of the previous capacity improvements are no longer required.

² Project categories are further defined in Chapter 4.

Table 2 - Cross-Country

2017 Condition CIP Projects	Project Category	Length	Insp_Date2
B09088-B09089	Cross-Country	293	2009
B10025-B10026	Cross-Country	364	2009
B11034-B11035	Cross-Country	335	2008
V01061-V32153	Cross-Country	380	2008
V02025.CO-V02025	Cross-Country	158	2007
V03117-V03118	Cross-Country	349	2007
V09003-V09004	Cross-Country	337	2006
V17005-V17006	Cross-Country	347	2009
V17064-V17065	Cross-Country	83	2006
V18021-V18022	Cross-Country	330	2009
V18023.F0-V18023	Cross-Country	149	2008
V19054-V19055	Cross-Country	390	2006
V26019-V26020	Cross-Country	156	2011
V26067-V26068	Cross-Country	217	2011
V29040-V29041	Cross-Country	309	2008
V29043-V29044	Cross-Country	242	2008
V29044-V29045.CO	Cross-Country	376	2008
V29049-V29145	Cross-Country	303	2008
V29129-V29139	Cross-Country	357	2008
V30062-V30078	Cross-Country	291	2009
V31033-V31034	Cross-Country	290	2015
V32027-V32029	Cross-Country	290	2009
V32049-V32162	Cross-Country	52	2008
V32122-V32170	Cross-Country	312	2009
V33144-V33146	Cross-Country	346	2008

Figure 3-7. CIP Capacity-Related Projects (City Service Area)



LEGEND

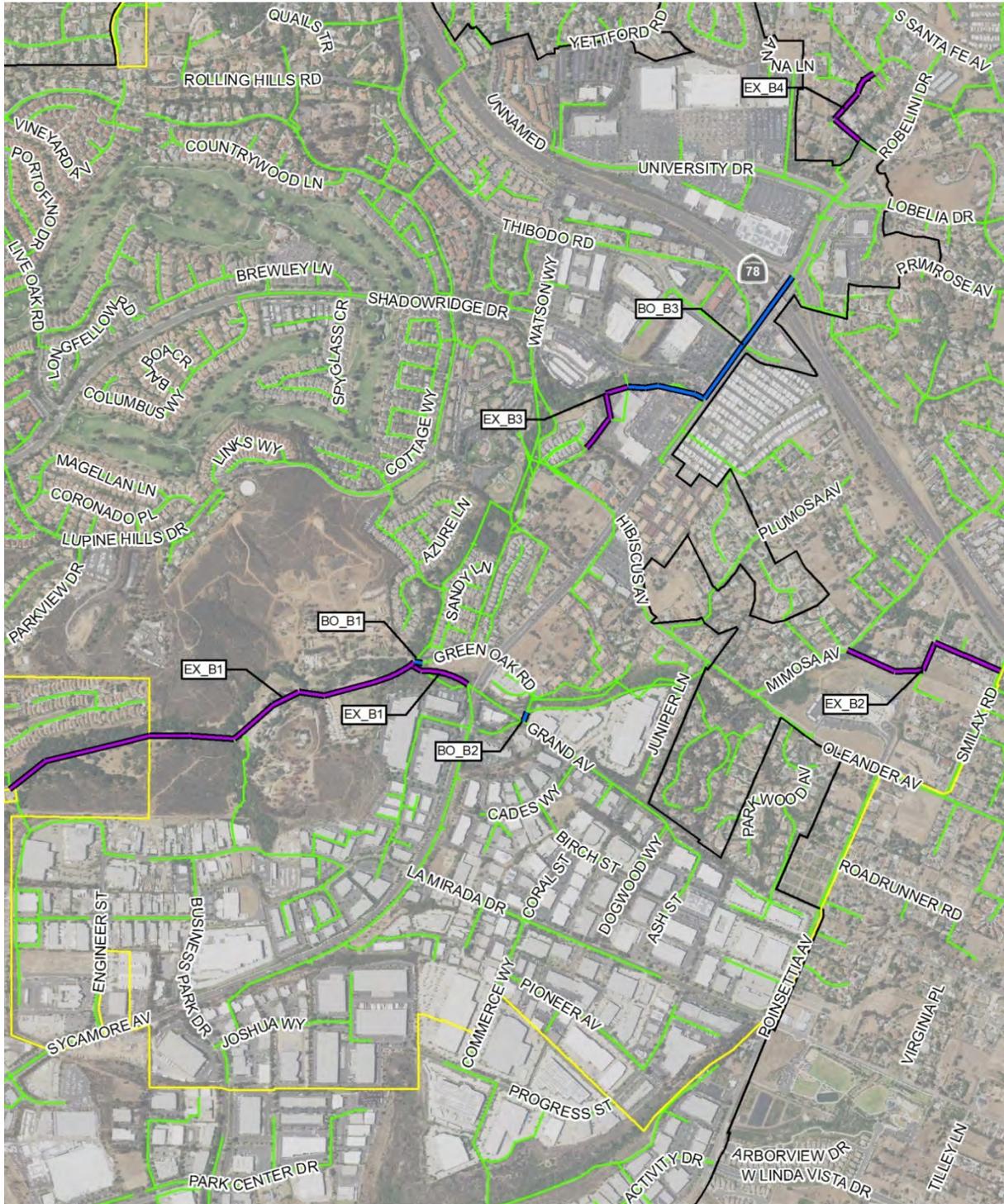
- City of Vista
- Buena Sanitation District
- Sanitary Sewer Collection System
- 2017 CIP Capacity Improvements Build Out
- 2017 CIP Capacity Improvements Near Term

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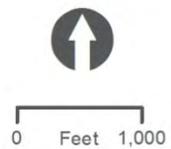
Figure 3-8. CIP Capacity-Related Projects (District Service Area)



LEGEND

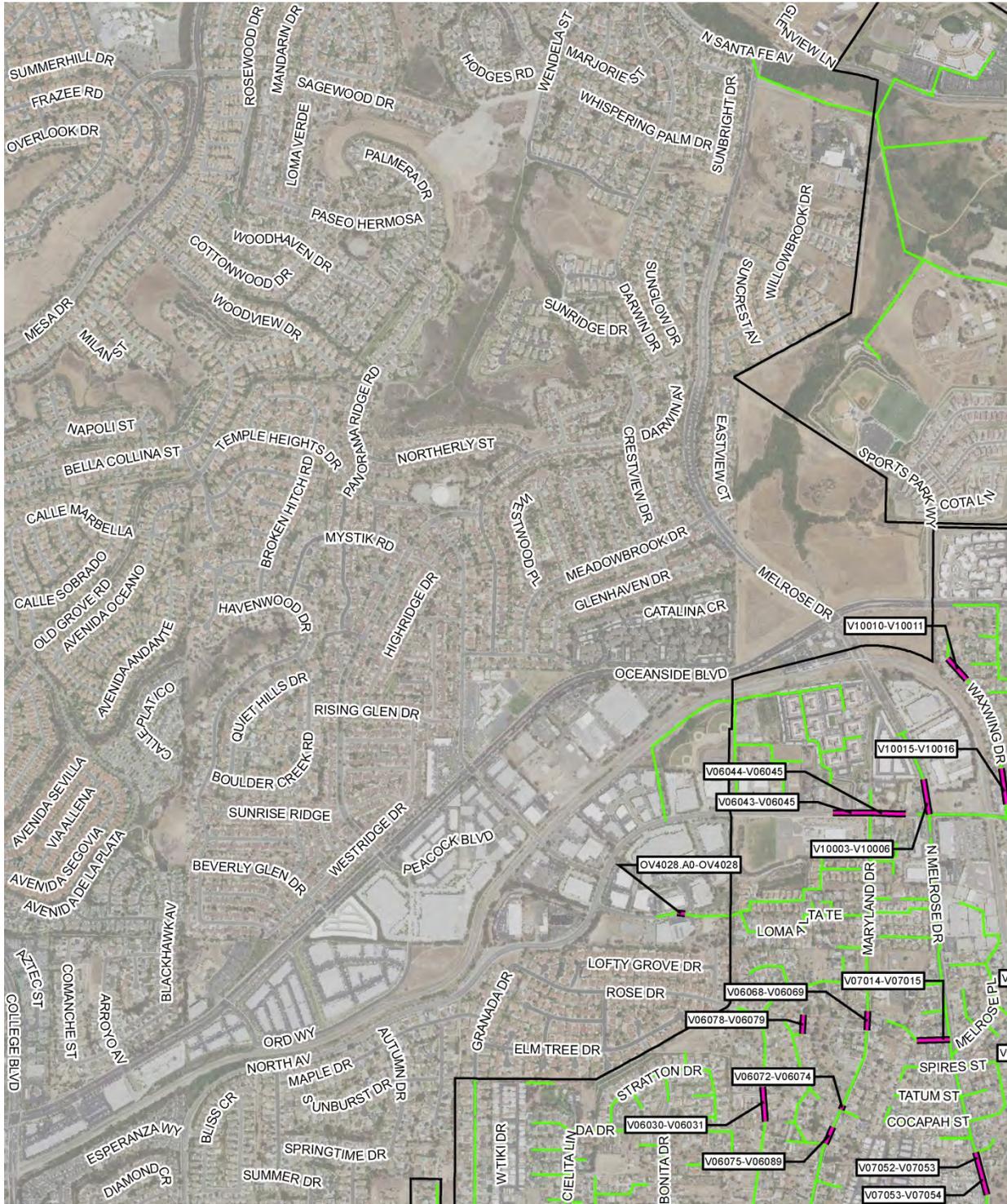
- City of Vista
- Buena Sanitation District
- Sanitary Sewer Collection System
- 2017 CIP Capacity Improvements Build Out
- 2017 CIP Capacity Improvements Near Term

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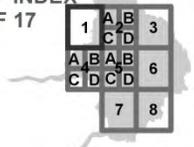
Figure 3-10. Condition-Related Projects under the Proposed 2017 CSMP (Map 1)



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- City of Vista
- Buena Sanitation District
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- CIP Condition Improvements Near Term

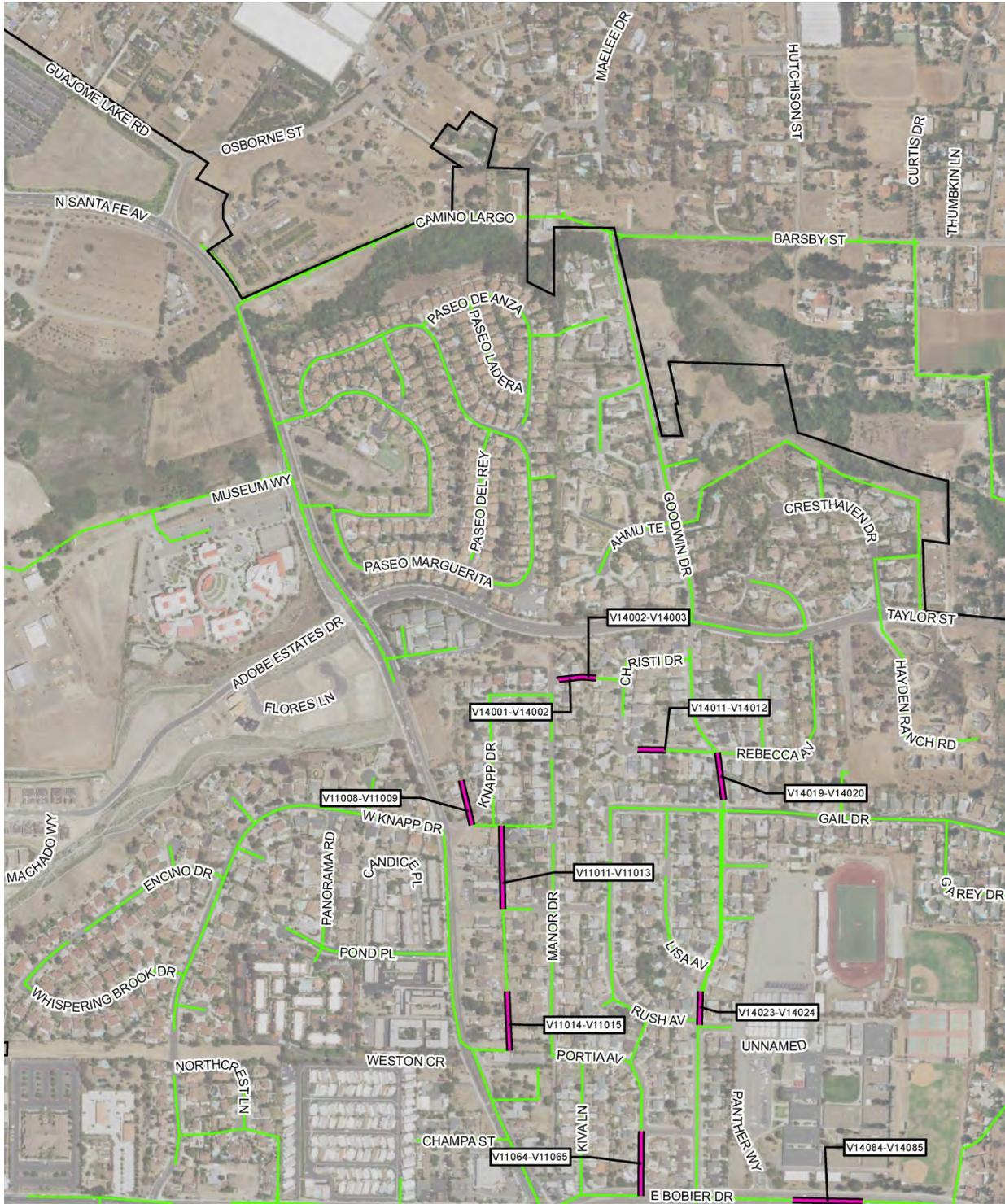
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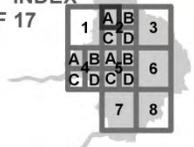
Figure 3-11A. Condition-Related Projects under the Proposed 2017 CSMP (Map 2)



LEGEND

- City of Vista
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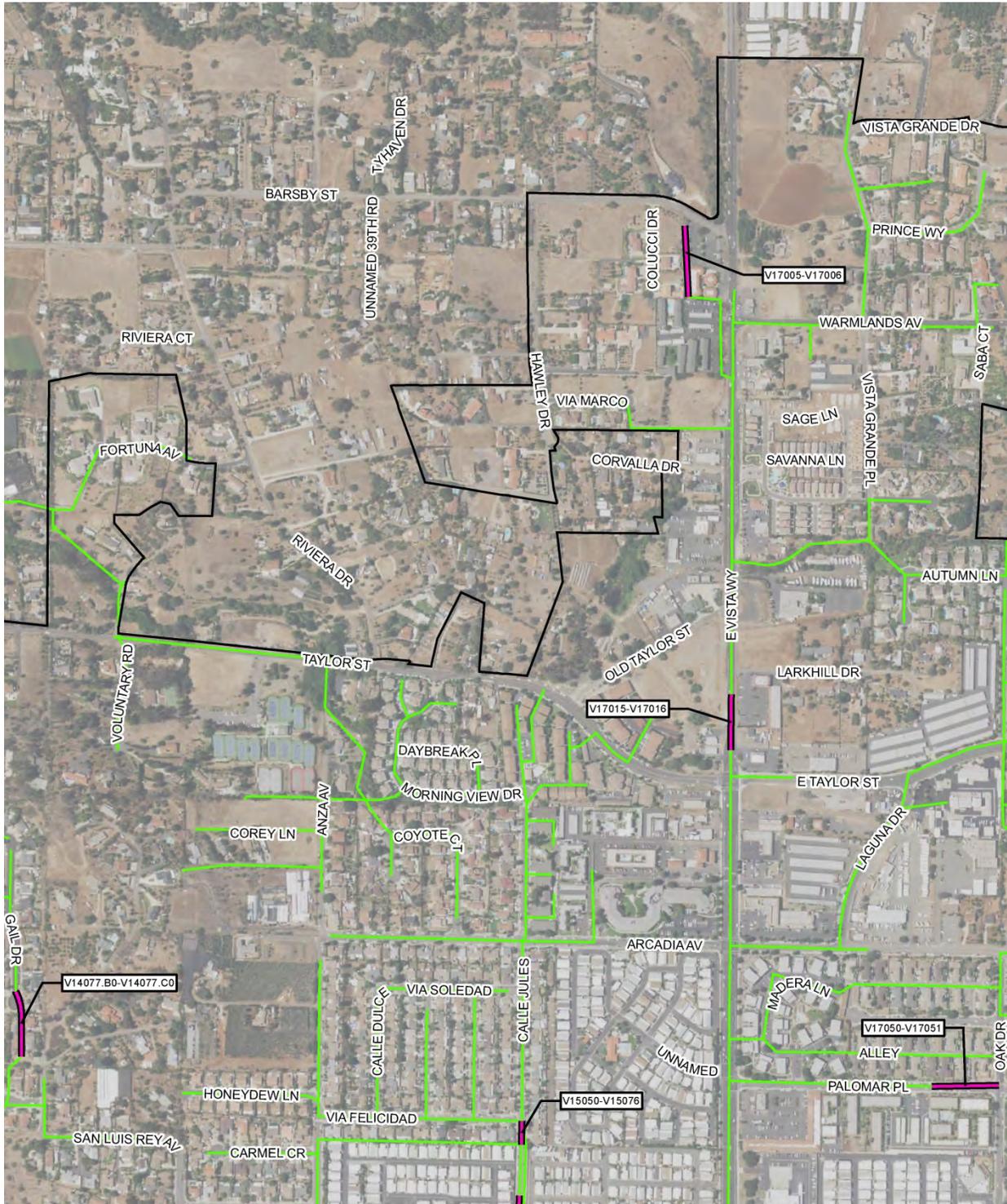
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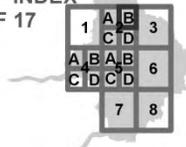
Figure 3-11B. Condition-Related Projects under the Proposed 2017 CSMP (Map 3)



LEGEND

- City of Vista
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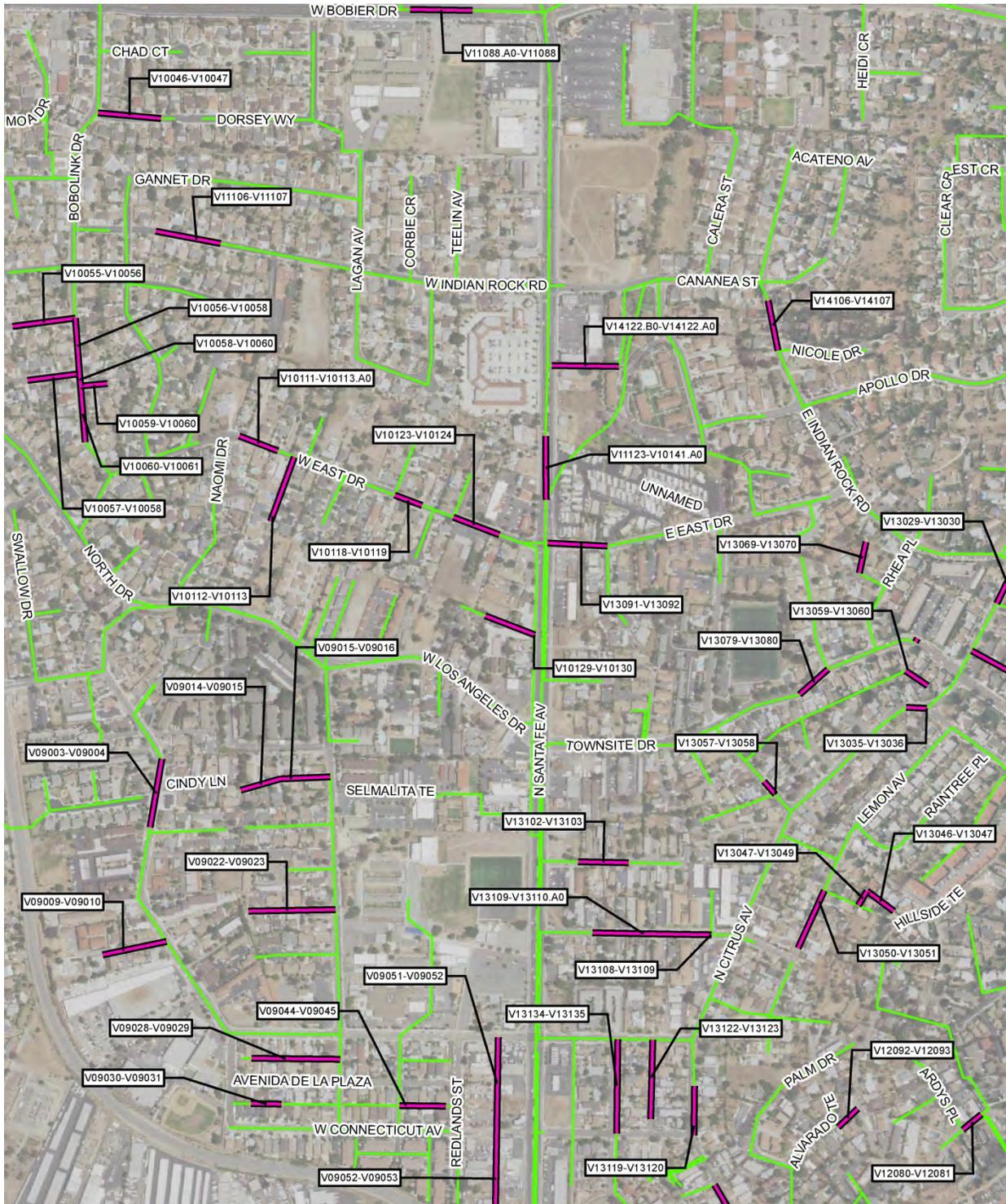
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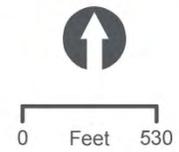
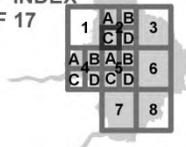
Figure 3-11C. Condition-Related Projects under the Proposed 2017 CSMP (Map 4)



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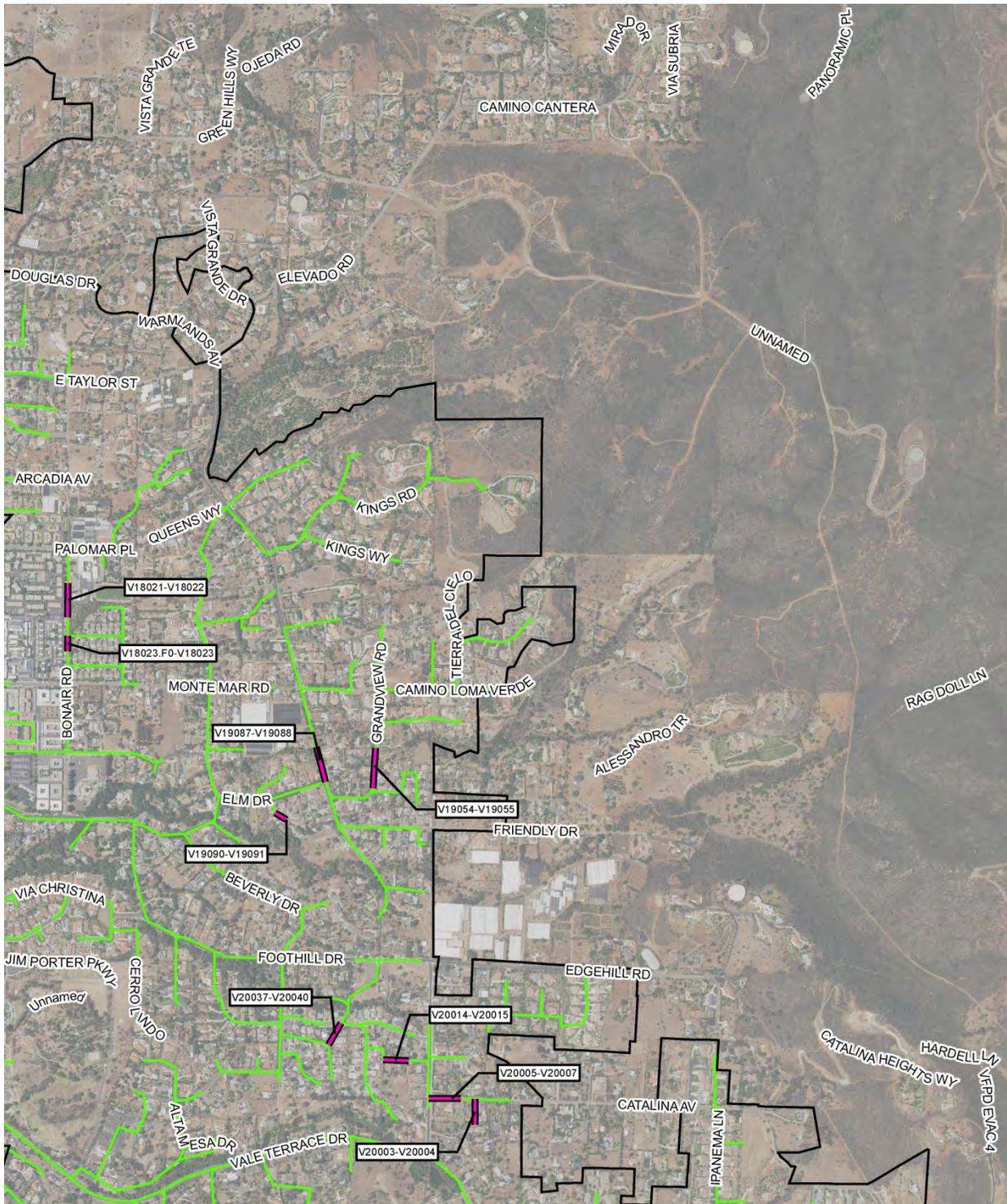
- City of Vista
- Buena Sanitation District
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Figure 3-12. Condition-Related Projects under the Proposed 2017 CSMP (Map 6)



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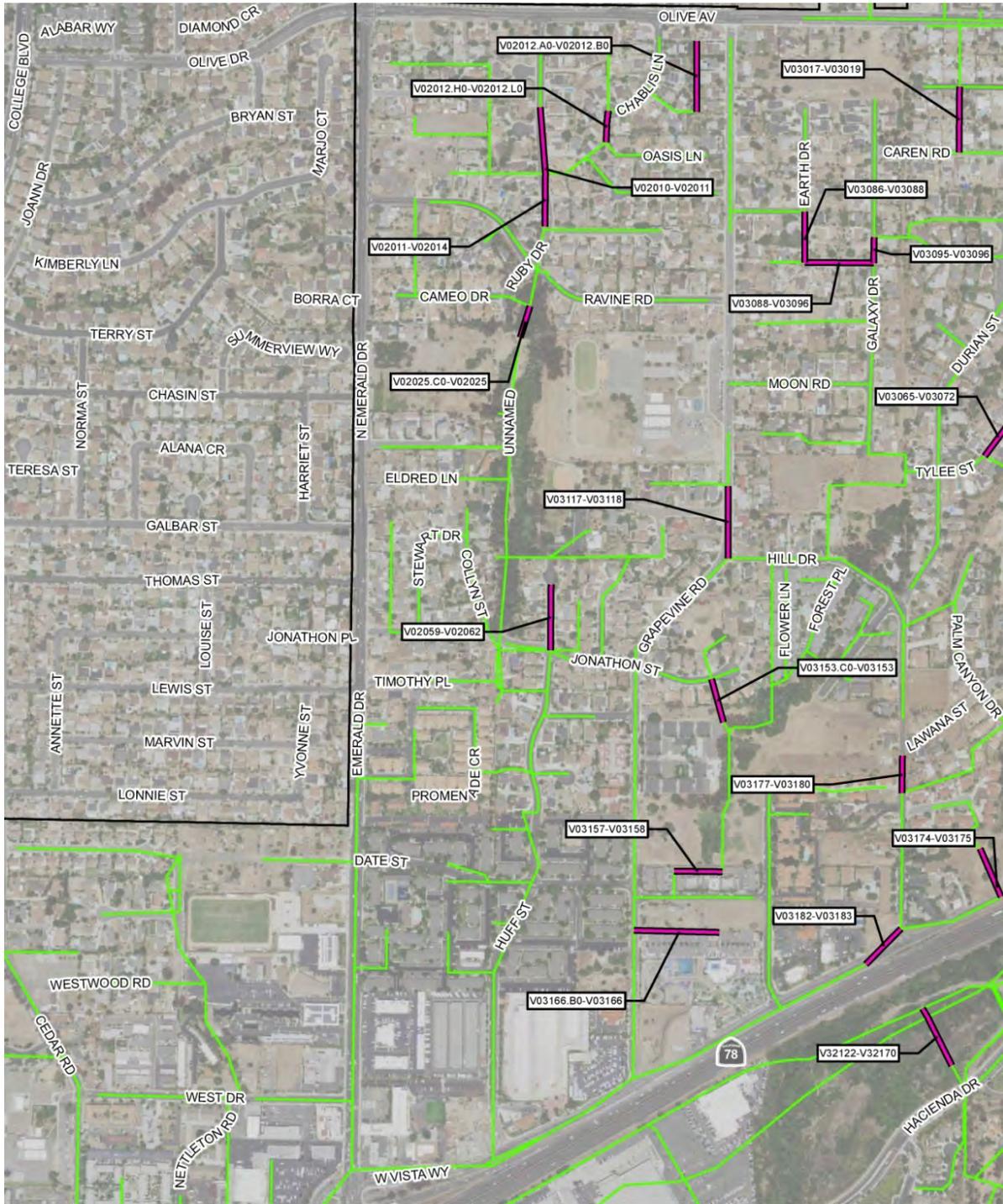
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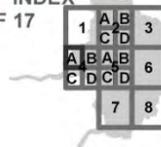
Figure 3-13A. Revised, Condition-Related Projects under the Proposed 2017 CSMP (Map 7)



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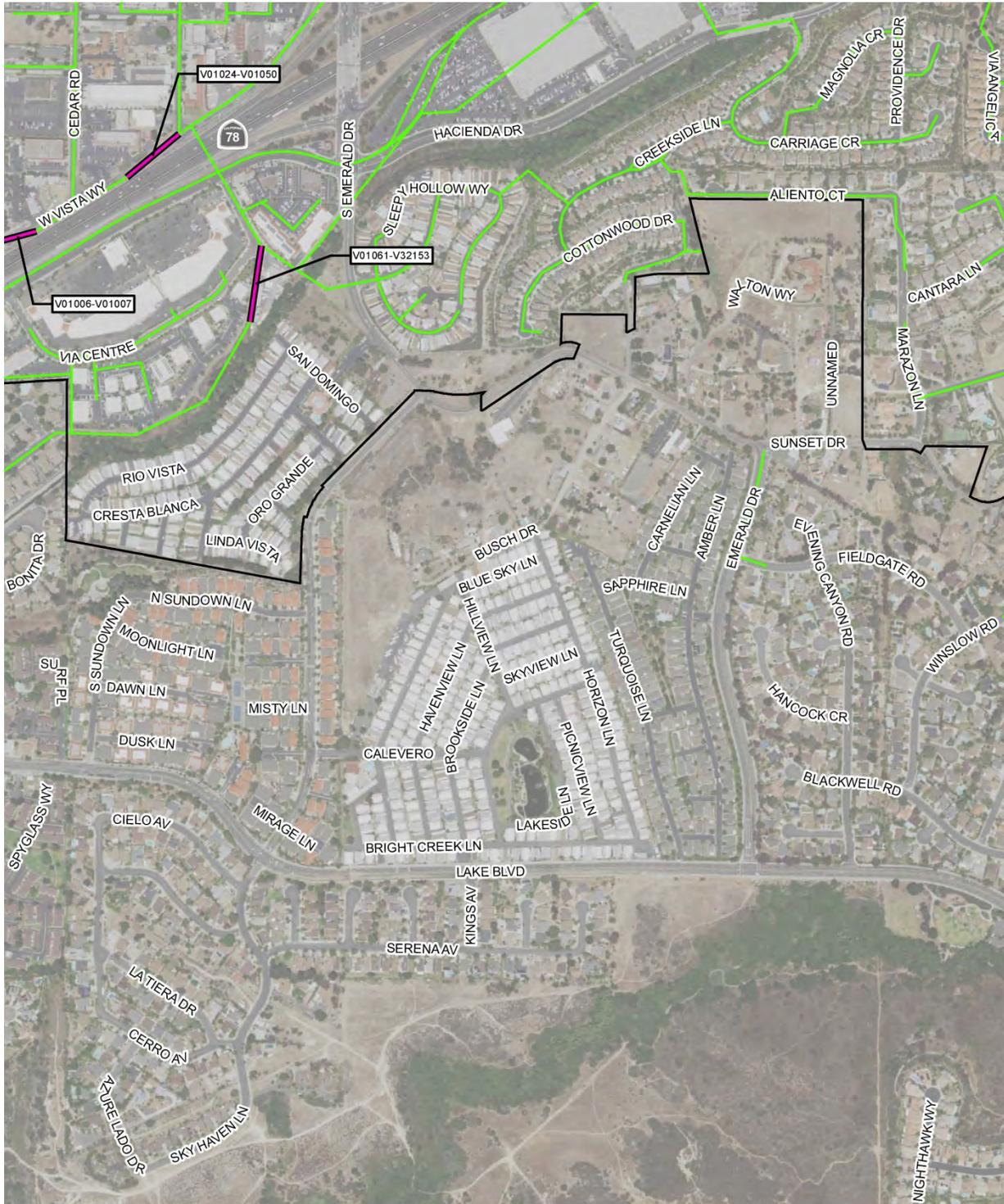
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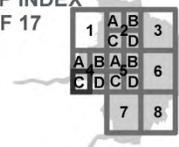
Figure 3-13C. Condition-Related Projects under the Proposed 2017 CSMP (Map 9)



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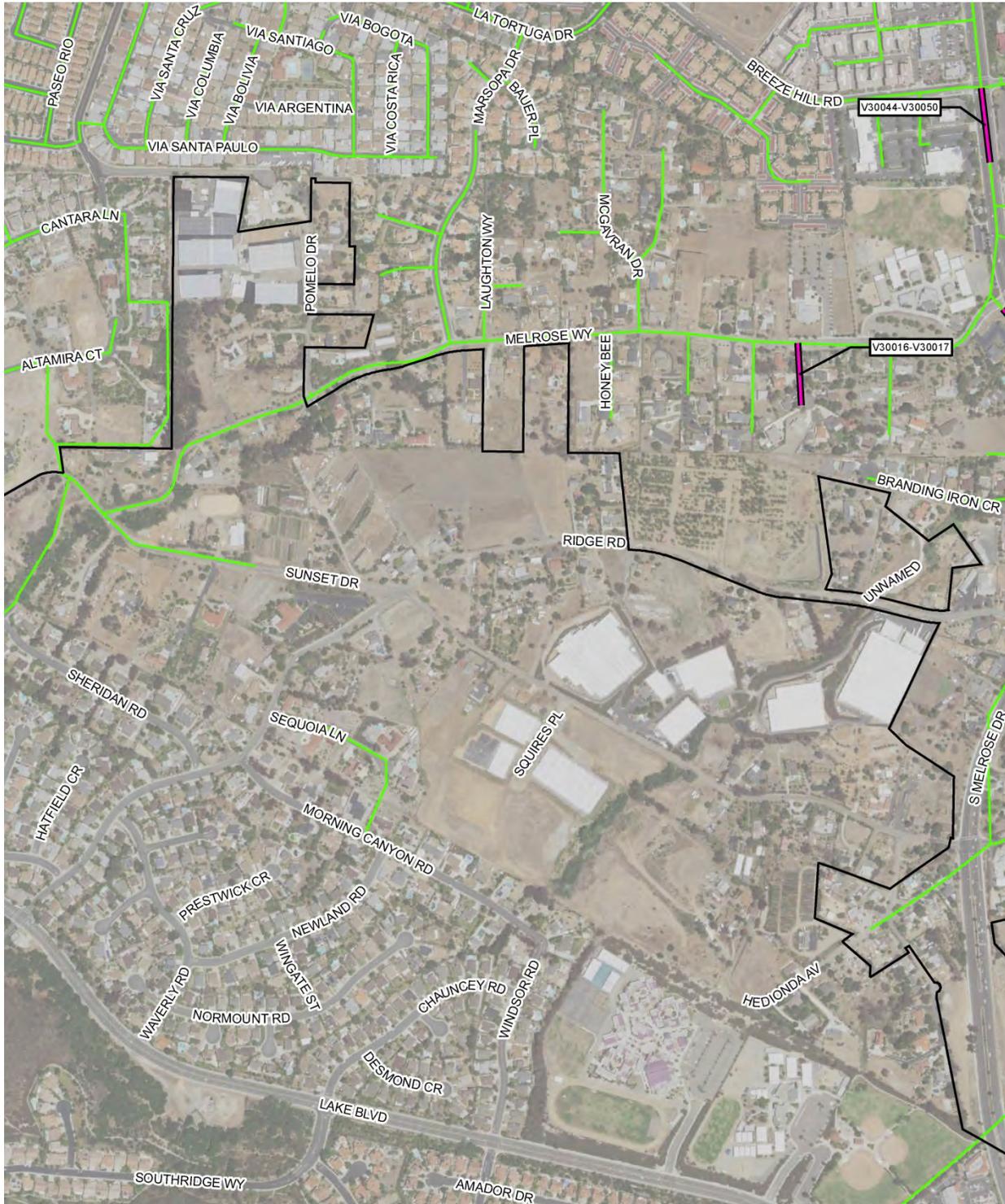
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Figure 3-13D. Condition-Related Projects under the Proposed 2017 CSMP (Map 10)



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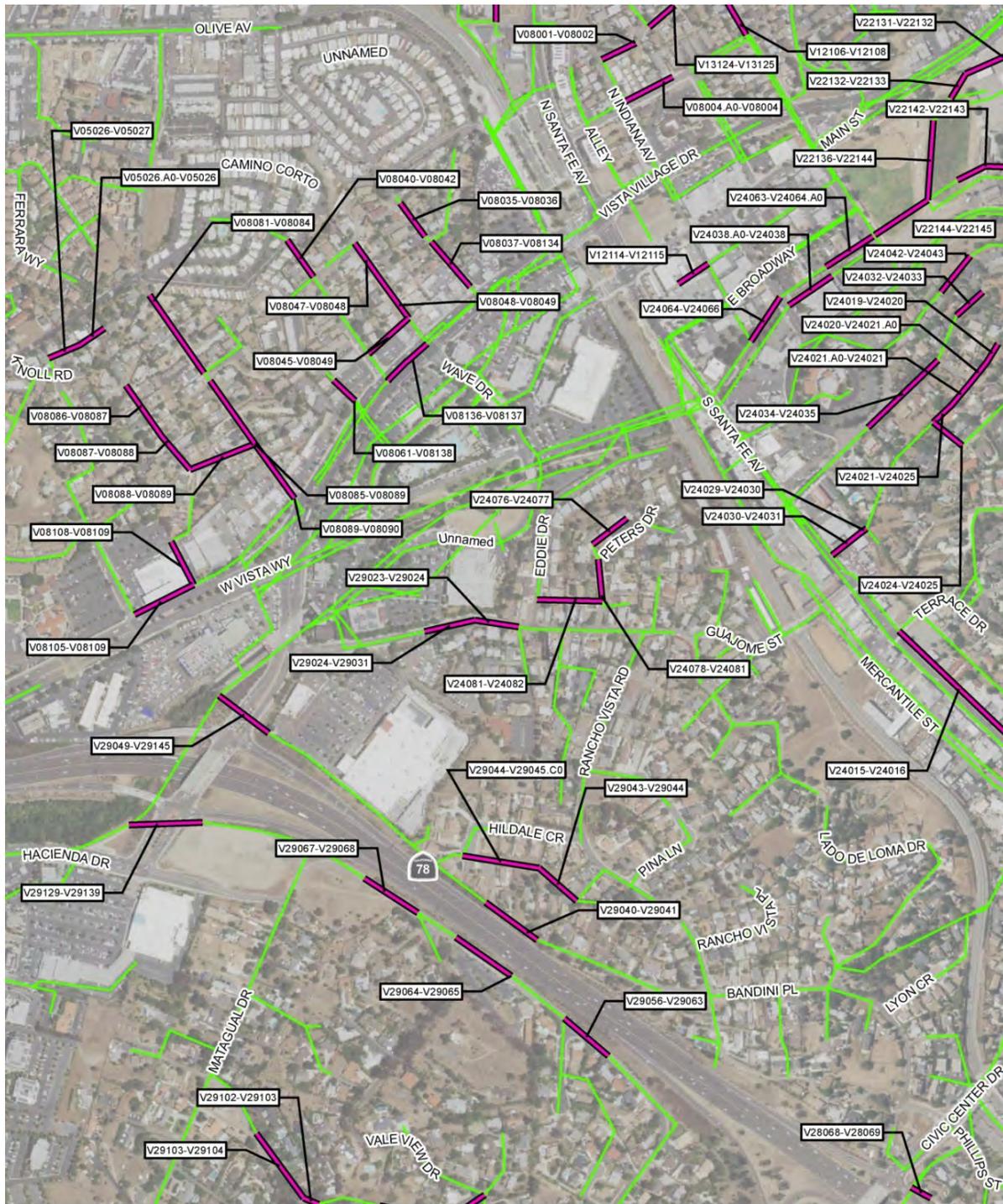
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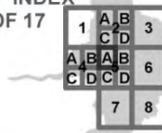
Figure 3-14A. Revised, Condition-Related Projects under the Proposed 2017 CSMP (Map 11)



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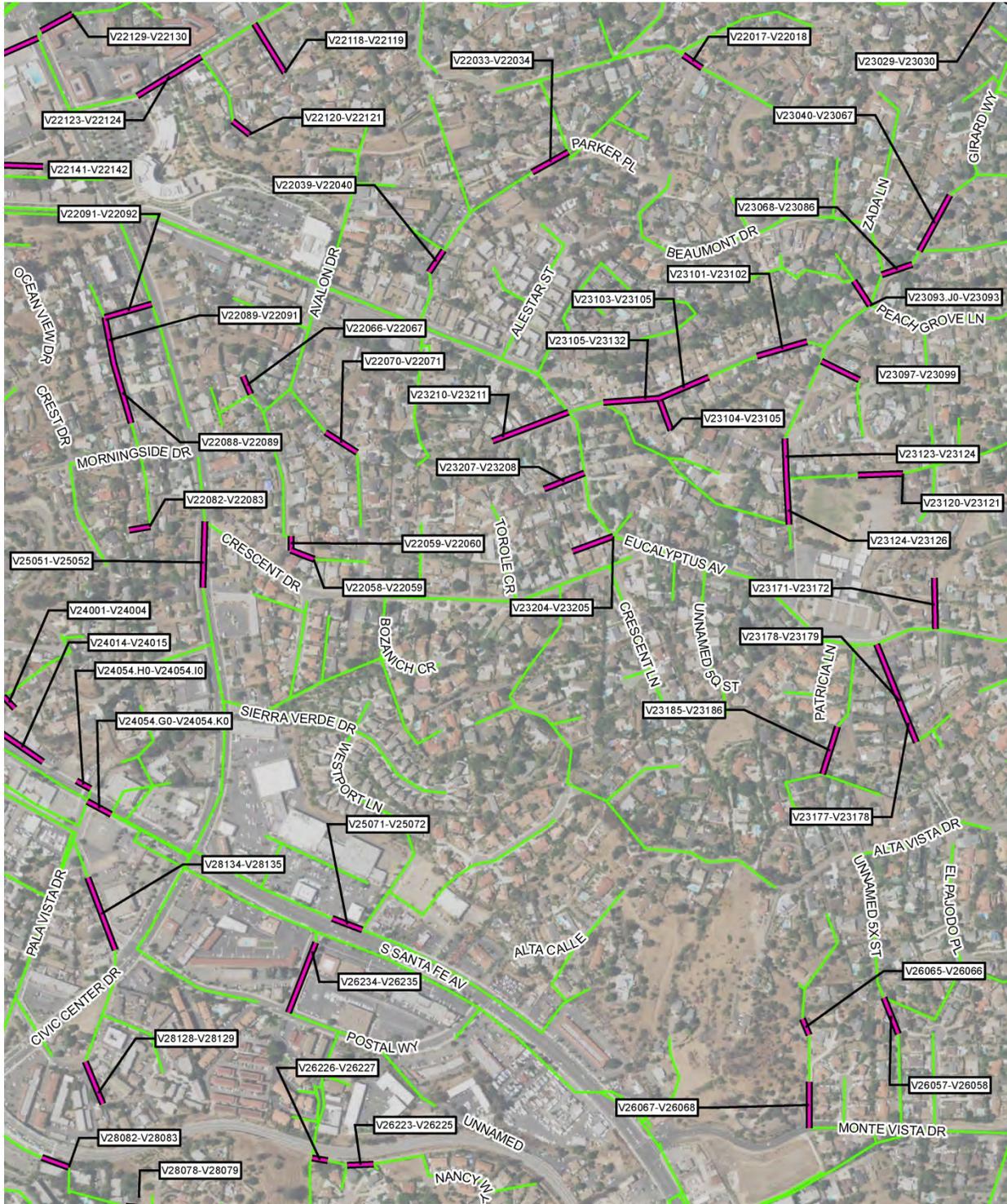
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Figure 3-14B. Condition-Related Projects under the Proposed 2017 CSMP (Map 12)



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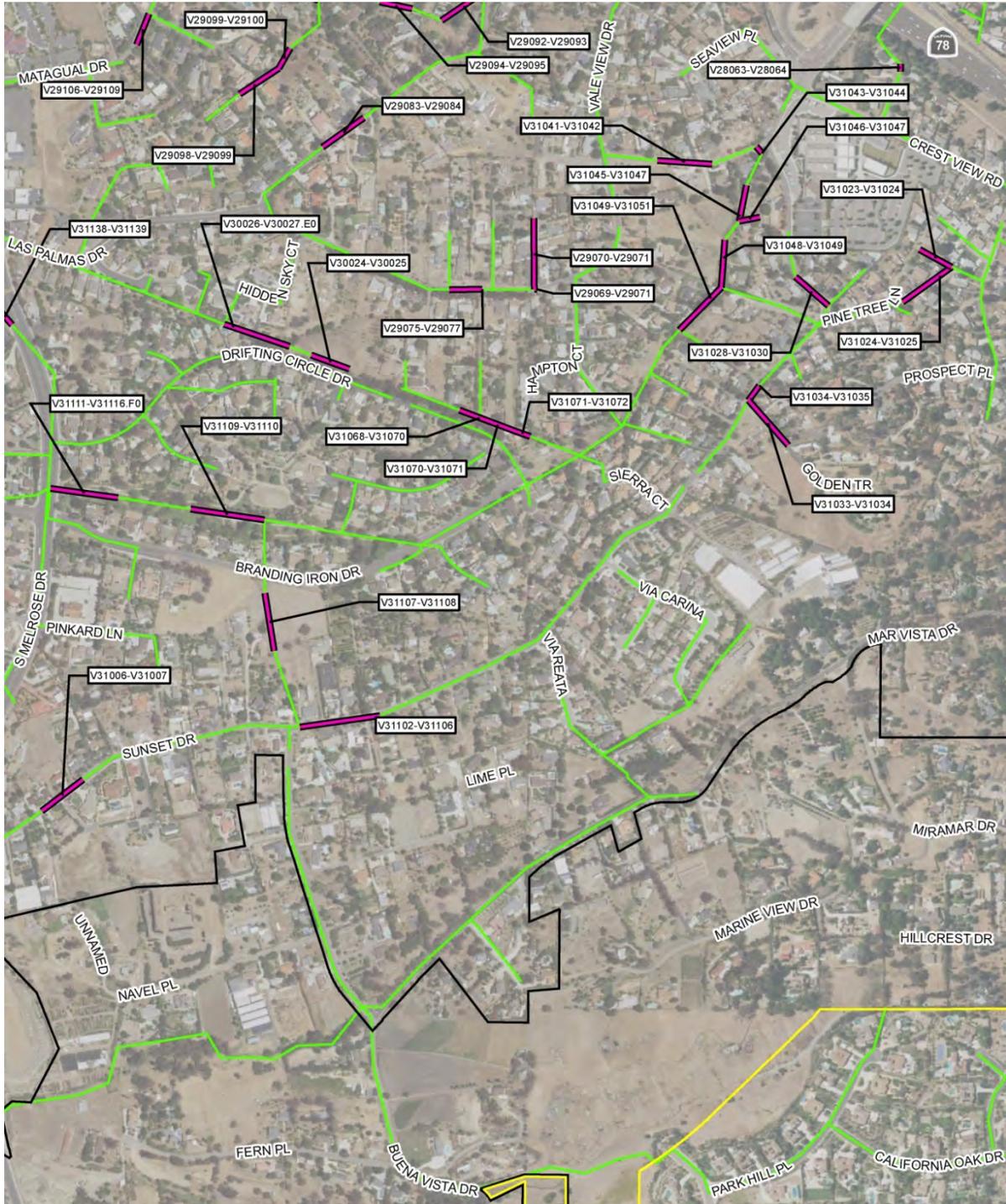
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C D	C D	
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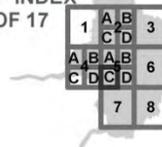
Figure 3-14C. Revised, Condition-Related Projects under the Proposed 2017 CSMP (Map 13)



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- City of Vista
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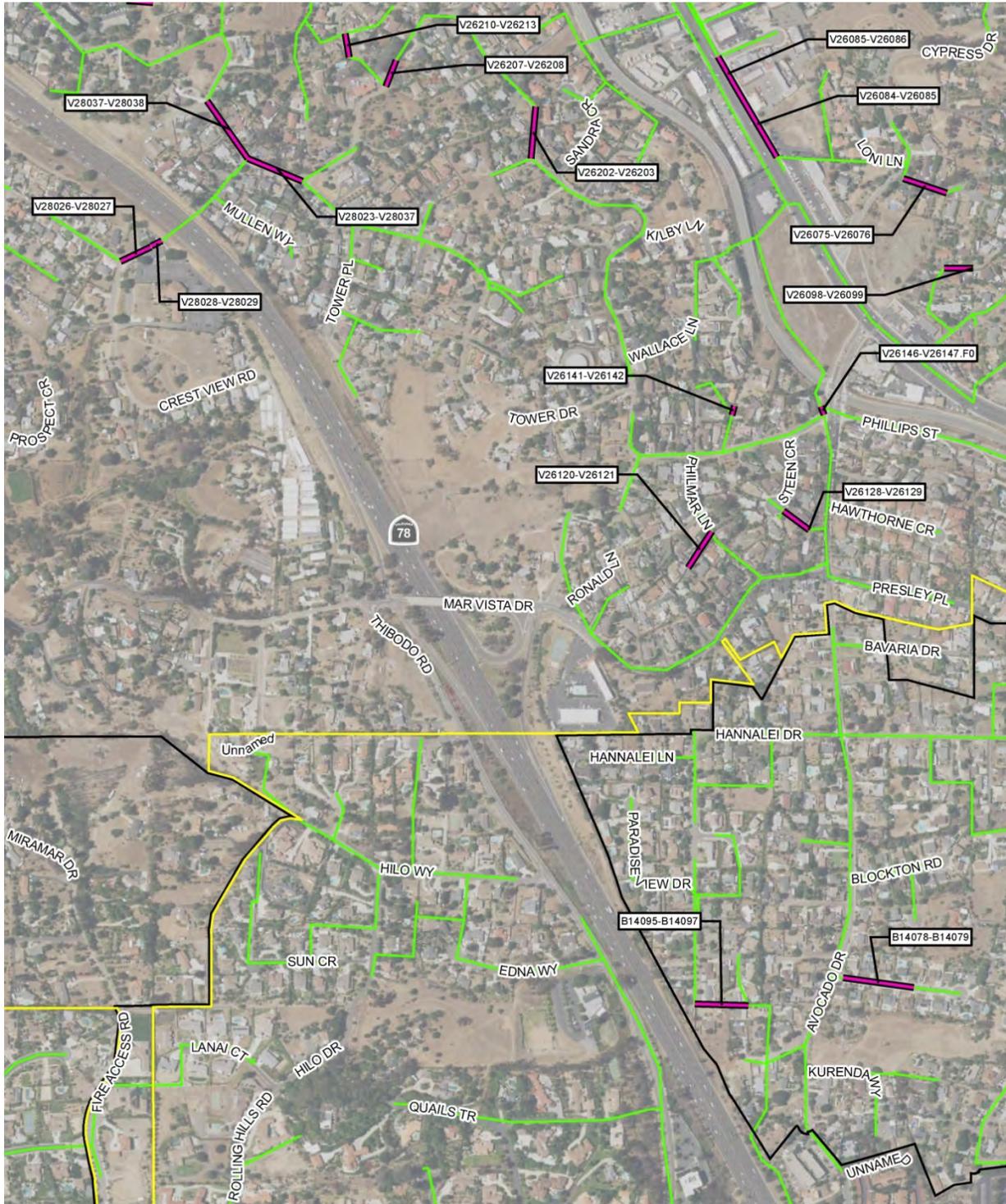
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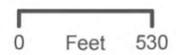
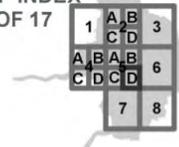
Figure 3-14D. Condition-Related Projects under the Proposed 2017 CSMP (Map 14)



LEGEND

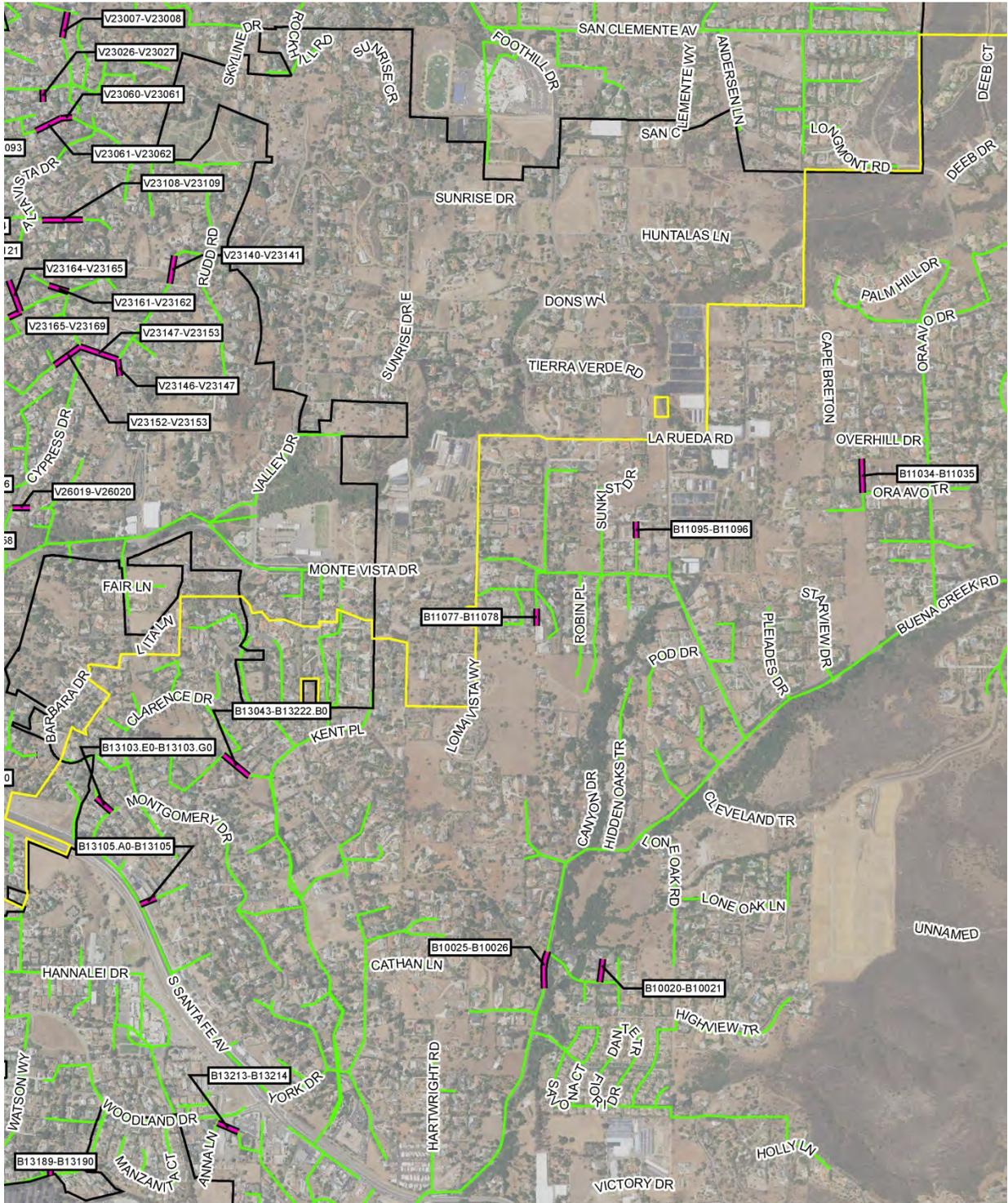
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Figure 3-15. Condition-Related Projects under the Proposed 2017 CSMP (Map 15)



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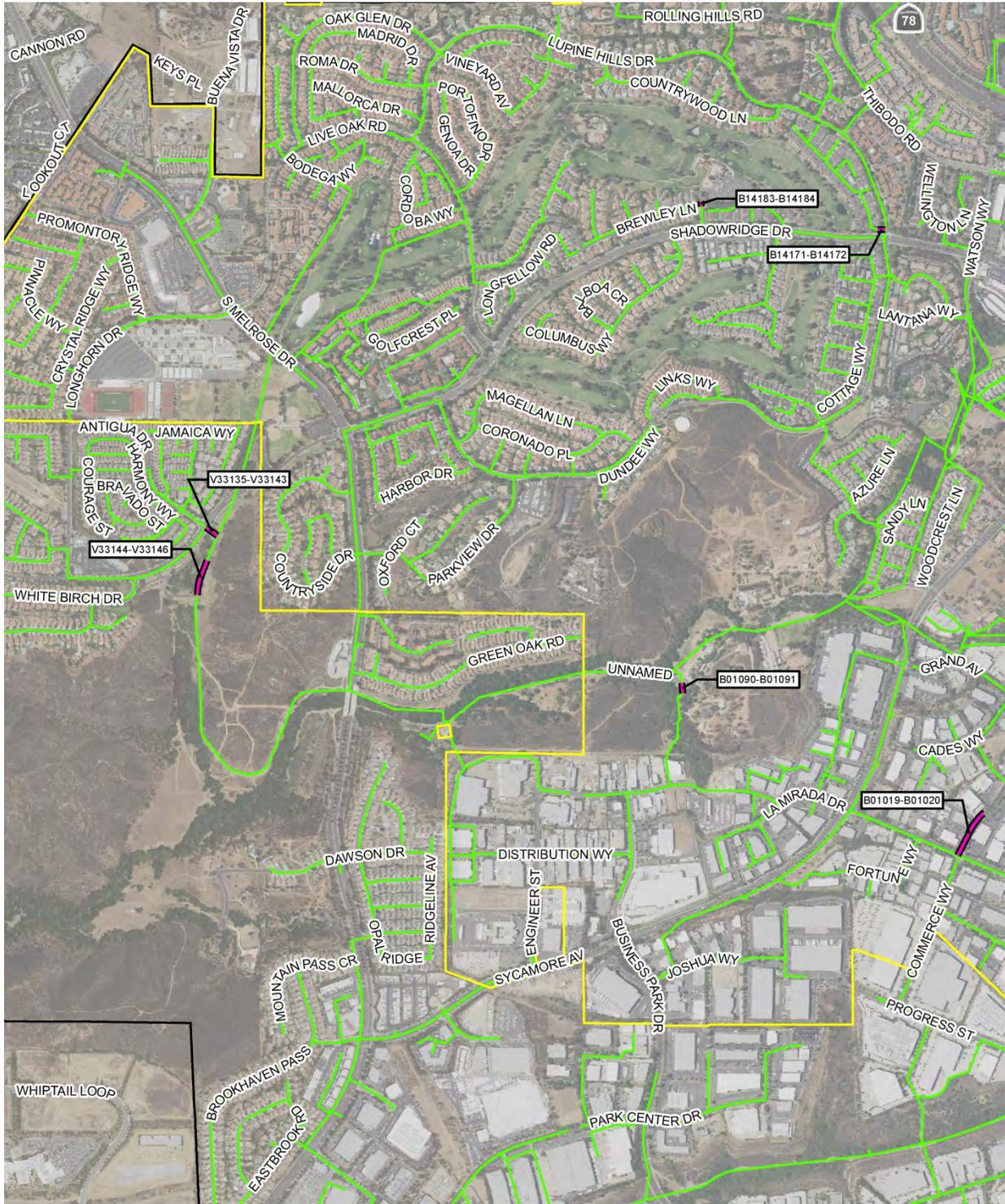
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Figure 3-16. Condition-Related Projects under the Proposed 2017 CSMP (Map 16)



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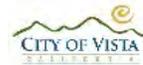
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Attachment C. Category 3 - O&M Program



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O&M activities would include continuation of the existing condition assessment program and no-dig rehabilitations such as epoxy coatings, polyurethane coatings, slip liners, and cured-in-place resin compound liners. The condition assessment program is composed of a combination of wet-weather flow measurement, televised inspections, smoke testing, and aboveground inspections on a 5- to 10-year program basis. Other elements of the O&M Program are described under the following headings.

Pump Station Improvements

In 2016, the City completed a Pump Station Condition Assessment and Rehabilitation Report (City of Vista 2016a) that identifies and prioritizes potential improvements to three of the four pump stations conveying flow from the City to the EWPCF: RPS, BCPS, and BVPS. For each pump station, an asset inventory list was created to document the assets at the pump station. The asset list was used to track asset condition, condition rankings, remaining useful life estimates, criticality, vulnerability, and overall risk. From the list, high-risk assets were identified for rehab or replacement and were grouped into larger O&M projects resulting in four large projects. Table 3-5 provides a list of the proposed pump station improvements included as part of the CSMP O&M Program.

Table 3-5. O&M Program Pump Station Projects

Project No.	Project	Pump Station(s)
O&M1	Variable Frequency Driver (VFD)/Programmable Logic Controller (PLC); Grinder Improvements; Wet Well Rehab	RPS, BCPS, BCPS
O&M2	Grinder Replacement: construct new concrete grinder vault, channel grinders, and bypass pumps. See Figure 3-18.	BVPS
O&M3	Consolidated Rehab Items: install exhaust fans; replace flow meters, valves, and pumps; repair/replace existing building interior/exterior features (e.g. doors, fencing, etc.); repair/replace drain piping, wet wells, and emergency containment area. New containment structures may also be added.	RPS, BCPS, BCPS
O&M4	Vapor Phase Odor Control: Install two-stage biological scrubber contained in a single tower.	BVPS

Source: City of Vista 2016a

Figure 3-18. Proposed Grinder Improvements at BVPS



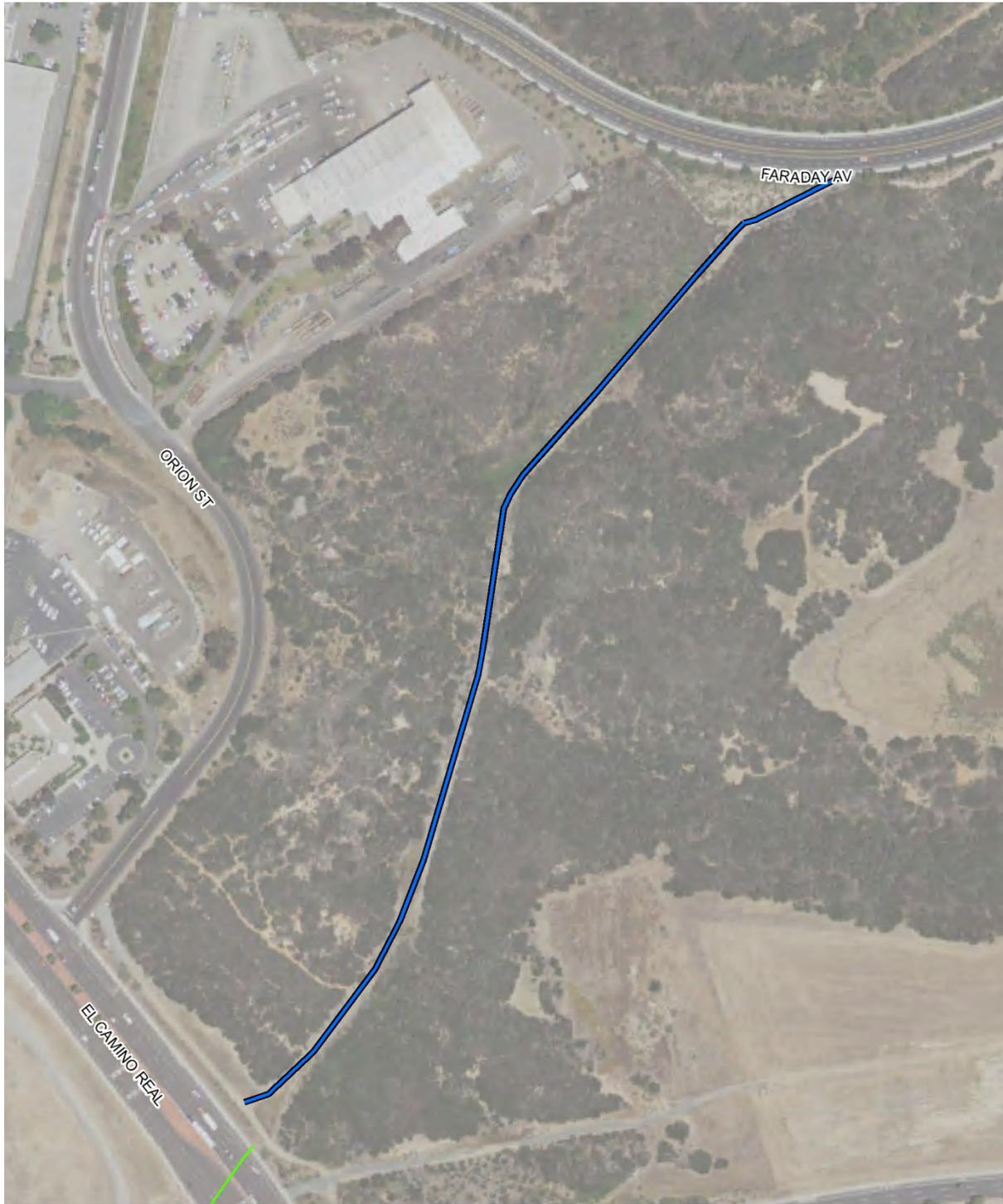


Attachment D. Category 4 - O&M Access (BC and V/C Interceptor Access)



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Figure 3-19. Maintenance Access Improvements along Buena Interceptor



LEGEND

-  Sanitary Sewer Collection System
-  2016 O & M Access Improvements

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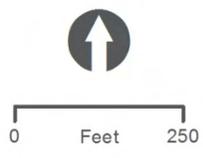
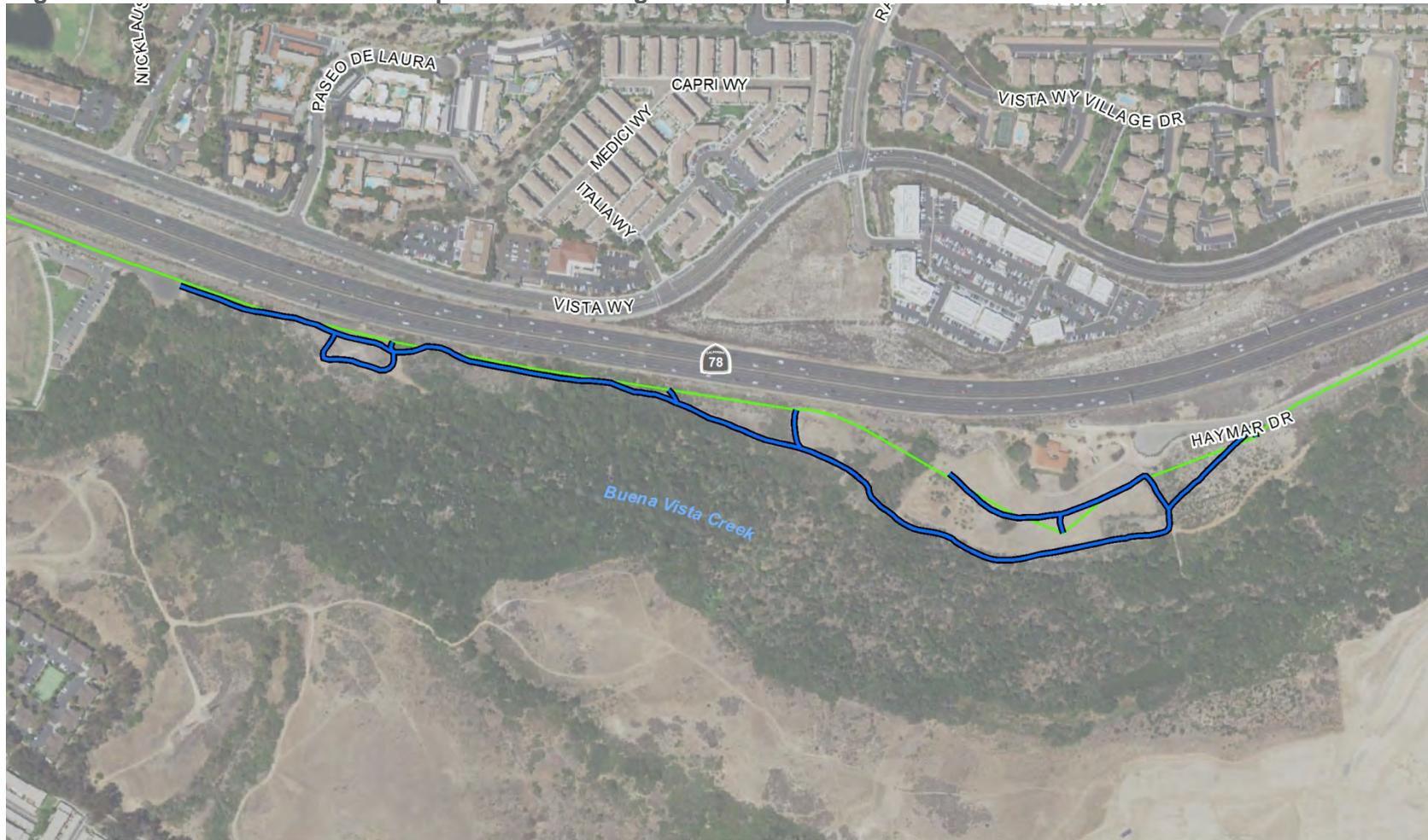


Figure 3-20. Maintenance Access Improvements along V/C Interceptor



LEGEND

- Sanitary Sewer Collection System
- 2017 O & M Access Improvements

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