Appendix D

Mitigation Monitoring and Reporting Program

Environmental Issue	Mitigation Measure #	Mitigation Measure	Timeframe for Implementation	Responsibility for Implementation	Responsibility for Oversight
AESTHETICS					
Provide Visual Screening for Construction Staging Areas in Residential Zones.	MM AES-1	The District will require contractors to provide visual screening around portions of construction staging areas that will be visible during the entirety of a construction season adjacent to resident areas. The fencing will buffer the visual effects within construction staging areas, including from equipment parking and materials storage from residents of the neighborhoods adjacent to the staging areas. Screening will consist of 6-foot-high chain-link fence covered with fabric, privacy slats, or an equivalent visual blockage. The fence will be put in place during the first week of construction staging, and will remain until construction staging is complete and equipment is demobilized from the staging area. The District will require the Contractor to only close one side of the existing channel during construction of the improvements at a time and to maintain access to the Open Space Baylands area on the other side of the existing channel.	Throughout construction	Contractor	District
Minimize Fugitive Light from Portable Sources of Light Used for Construction within Residential Zones.	MM AES-2	The construction contractor shall minimize Project-related light and glare within residential zones to the maximum extent feasible, given safety considerations, when construction at night is required. Color-corrected halide lights will be used where applicable. Portable lights will be operated at the lowest allowable wattage and height where in compliance with governing State and local laws, regulations, ordinances, etc. All lights will be screened and directed downward toward work activities and away from the night sky and nearby residents, to the maximum extent possible. The number of nighttime lights used will be minimized to the greatest extent possible.	Throughout construction	Contractor	District

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BIOLOGICAL RESOURCES					
Implement Compensatory Mitigation for Temporal Loss of Vegetated Wetlands and Permanent Loss of Vegetated and Unvegetated Wetlands and Other Waters	MM BIO-1	Mitigation for temporary impacts on vegetated wetlands and permanent impacts on both vegetated wetlands and unvegetated aquatic habitats shall be provided at a ratio of 1:1 (1 acre of mitigation for every 1 acre of disturbed) via creation or restoration of wetlands/other waters. Mitigation may be achieved through one or more options, potentially including (but not limited to) a onsite restoration or creation of wetlands or aquatic habitats (including removal of onsite fill), if feasible onsite restoration opportunities exist; offsite restoration/creation; financial contribution to restoration programs for tidal wetland restoration, such as the South Bay Salt Pond Restoration Project; and/or purchase of mitigation credits at mitigation banks within the San Francisco Bay Region. Impacts on non-tidal vs. tidal wetlands and aquatic habitats will be mitigated in-kind with respect to tidal condition (i.e., impacts on non-tidal wetlands will be mitigated through restoration/preservation of non-tidal wetlands and impacts on tidal wetlands will be mitigated through restoration/preservation of tidal wetlands). If the District restores wetlands onsite or offsite, a qualified biologist selected by the District will develop a Wetland and Jurisdictional Waters Mitigation and Monitoring Plan, which shall contain the following components (or as otherwise modified by regulatory agency permitting conditions): 1. Summary of habitat impacts and proposed mitigation ratios. 2. Goal of the restoration to achieve no net loss of habitat functions and values. 3. Location of mitigation site(s) and description of existing site conditions. 4. Mitigation design: • Existing and proposed site hydrology • Grading plan if appropriate, including bank stabilization or other site stabilization features	Throughout construction	Contractor	District

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		• Soil amendments and other site preparation elements as appropriate • Planting plan • Irrigation and maintenance plan • Remedial measures/adaptive management, etc. 5. Monitoring plan (including final and performance criteria, monitoring methods, data analysis, reporting requirements, monitoring schedule, etc.). At a minimum, success criteria will include quantifiable measurements of wetland vegetation type (e.g., dominance by native hydrophytes) and extent appropriate for the wetland restoration location, and provision of ecological functions and values equal to or exceeding those in the wetlands and waters that are impacted. 6. Contingency plan for mitigation elements that do not meet performance or final success criteria. The District shall implement the Wetland and Jurisdictional Waters Mitigation Monitoring Plan. Monitoring shall be conducted annually to document whether the success criteria are achieved, and to identify any remedial actions that must be taken if the identified success criteria are not met. Monitoring shall continue until the mitigation has been determined to be successful per project permit requirements (i.e., success criteria are achieved).			

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Conduct Fish Removal during Project Site Dewatering Activities	MM BIO-2	Prior to dewatering activities in tidal reaches, a qualified biologist would use nets to exclude fish from the construction area. During a falling tide, a block net shall be placed at the upper end of the reach to be dewatered. Subsequently, qualified biologists shall walk from the upper to lower end of the reach with a net stretched across the channel to encourage fish to move out of the construction area. When the lower end of the construction area is reached, a second block net shall be installed to isolate the construction reach. This procedure shall be repeated a minimum of three times per dewatered tidal reach to assure no green sturgeon, steelhead, or longfin smelt remain within the construction area. Mesh size shall not exceed 9.5 mm to ensure that longfin smelt are adequately excluded from this area.	Throughout construction	Contractor	District
Conduct Pre-Construction Surveys for Western Pond Turtles	MM BIO-3	A qualified biologist shall conduct a survey for western pond turtles and their nests within 48 hours prior to commencement of work within the channel banks in any given area where water is present. If a western pond turtle is found in an area where it could be injured or killed by Project activities, the qualified biologist will relocate the turtle to an appropriate site outside the Project area (e.g., the Lockheed Channel or North Moffett Channel If an active western pond turtle nest is detected within the activity area, a 25 foot-buffer zone around the nest will be established and maintained during the nesting season (April 1 through August 31). The buffer zone will remain in place until the young have left the nest, as determined by a qualified biologist. Following the initial survey, a construction crewmember who has been trained to identify western pond turtles by a qualified biologist shall conduct a survey of the in-channel activity area each morning prior to the onset of construction activities. If a turtle is located, all work in the vicinity shall immediately cease, and a qualified biologist shall be contacted. Work within the area shall not resume until the turtle has been relocated or has moved out of the area where it could be impacted.	Throughout construction	Contractor	District

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Pre-Construction Surveys for Nesting Birds	MM BIO-4	Pre-construction surveys for nesting birds shall be conducted by a qualified biologist to ensure that no nests will be disturbed during Project implementation. Surveys shall be conducted no more than one week prior to the initiation of construction activities in any given area; because construction may be phased, surveys will be conducted prior to the commencement of each phase of construction. The survey can be limited to the portions of the Project Work Area where construction activities will occur as well as a 250-foot buffer for raptors and a 50-foot buffer for non-raptors. The Project Work Area includes the channels themselves, the District's existing right-of-way/channel easements, and designated Project staging areas. During each survey, the ornithologist will inspect all trees and other potential nesting habitats (e.g., shrubs, ruderal grasslands, wetlands, and buildings) in and immediately adjacent to the impact areas for nests. If a lapse in Project-related work of one week or longer occurs, another focused survey will be conducted before Project work can be reinitiated.	Prior to and throughout all construction phases	Contractor	District
Implement Buffer Zones for Nesting Birds	MM BIO-5	If an active nest is found sufficiently close to the Project Work Area (i.e., within 250 feet for raptors or 50 feet for non-raptors), a qualified biologist will determine the extent of a disturbance-free buffer zone to be established around the nest (typically 50 feet for non-raptors and 250 feet for raptors), to ensure that no nests of species protected by the Migratory Bird Treaty Act (MBTA) and California Fish and Game Code will be disturbed during Project implementation. The buffer distance is measured as the straight-line distance between an active nest and the activity, taking both horizontal and vertical distance into account. No new[1] Project-related activities (i.e., activities that were not ongoing when the nest was established; for example, routine maintenance activities would not be considered "new") shall be performed within the buffer until the young have fledged or the nest has been	Prior to construction Throughout construction (as necessary)	District	District

[1] By establishing nests in areas with a certain level of existing activity, the birds will have demonstrated their tolerance of such activities. Thus, continuing the same level (or a reduced level) of activity should not cause the abandonment of the nest.

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		determined to be inactive by a qualified ornithologist. Reductions in the standard buffers (i.e., to buffers less than 50 feet for non-raptors and less than 250 feet for raptors) may be allowed where circumstances suggest the birds will not abandon the active nest with a reduced buffer size. A qualified biologist will determine whether reducing the buffer is likely to substantially increase disturbance of nesting birds, taking into account the presence or absence of dense vegetation, type of construction work, topography, or structures that would block Project activities from view; the life history and behavior of the bird species in question; and the nature of the proposed activity. If a reduced buffer is implemented, the biologist shall monitor bird behavior in relation to work activities. At a minimum, the biologist will monitor the baseline behavior of the birds for at least 30 minutes prior to the commencement of the activity (to determine the birds' behavior in the absence of the activity) and for at least one hour immediately following the initiation of the activity, when response by the nesting birds to the novel activity is expected to be greatest. If the birds exhibit abnormal nesting behavior which may cause reproductive failure (e.g., nest abandonment and loss of eggs and/or young), such as agitated/defensive flights and vocalizations directed towards Project personnel, birds standing up from a brooding position, birds flushing from the active nest, or cessation of provisioning of young with food, the disturbance-free buffer shall immediately be adjusted out to the standard buffer distance (250 feet for raptors and 50 feet for non-raptors) until the birds have resumed their normal behavior (e.g., incubation or feeding of young). After 2 hours with all work confined to the area outside the standard buffer, work would again be attempted in the area within the reduced buffer, and the process would be repeated to determine if the birds have habituated to the activity. If the process is repeated three times without the birds indicating that they are habituating to the activity, then the standard buffer will be maintained until the next day, when the process above would			

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		again be attempted. If the birds do not indicate that they are habituated to Project activities during the initial 2 days of attempting work within a reduced buffer, the standard buffer shall be implemented. Project activities within the reduced buffers shall not resume until the District has consulted with the California Department of Fish and Wildlife (CDFW) and both the qualified biologist and CDFW confirm that the birds' behavior has normalized, or until the nest is no longer active.			
Conduct Pre-Construction Surveys for Burrowing Owls	MM BIO-6	Pre-construction surveys for burrowing owls shall be conducted prior to the initiation of all Project activities within suitable burrowing owl habitat (i.e., ruderal/ grassland habitat with burrows of California ground squirrels). Pre-construction surveys will be completed in conformance with the CDFW's 2012 guidelines (CDFG 2012). An initial habitat assessment will be conducted by a qualified biologist to determine if suitable burrowing owl habitat is present in a given area. During the initial site visit, a qualified biologist will survey the entire activity area and (to the extent that access allows) the area within 250 feet of the site for suitable burrows that could be used by burrowing owls for nesting or roosting. If no suitable burrowing owl habitat (i.e., ruderal grasslands with burrows of California ground squirrels) is present within a given area, no additional surveys will be required. If suitable burrows are determined to be present within 250 feet of work areas, a qualified biologist will conduct three additional surveys to investigate each burrow within the survey area for signs of owl use and to determine whether owls are present in areas where they could be affected by proposed activities. The final survey shall be conducted within the 24-hour period prior to the initiation of Project activities in any given area. Because Project activities may be phased, these survey efforts may also need to be performed in phases to ensure that burrowing owls are not present in work areas when Project activities commence. This measure applies to the staging areas as well as the Project areas along the Sunnyvale Channels.	Throughout construction	Contractor	District

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Implement Buffer Zones for Burrowing Owls	MM BIO-7	If burrowing owls are present during the non-breeding season (generally September 1 to January 31), a 150-foot buffer zone shall be maintained around the occupied burrow(s), if feasible. If maintaining such a buffer is not feasible, then the buffer must be great enough to avoid injury or mortality of individual owls, or else the owls should be passively relocated as described in MM BIO-9 below. During the breeding season (generally February 1 to August 31), a 250-foot buffer, within which no new Project-related activities will be permissible, will be maintained between Project activities and occupied burrows. Owls present between February 1 and August 31 will be assumed to be nesting, and the 250-foot protected area will remain in effect until August 31. If monitoring evidence indicates that the owls are no longer nesting or the young owls are foraging independently, the buffer may be reduced or the owls may be relocated prior to August 31, in consultation with the CDFW.	Throughout construction (as necessary)	Contractor	District
Monitor Owls During Construction	MM BIO-8	Any owls occupying the Project Site are likely habituated to frequent human disturbances throughout the year in the form of District maintenance activities and recreational use of the levee maintenance roads. As a result, they may exhibit a tolerance of greater levels of human disturbance than owls in more natural settings, and work within the standard 250-foot buffer during the nesting season may be able to proceed without disturbing the owls. Therefore, if nesting owls are determined to be present on the site, and Project activities cannot feasibly avoid disturbance of the area within 250 feet of the occupied burrow during the nesting season (i.e., February 1 through August 31) due to other seasonal constraints, a qualified biologist will be present during all activities within 250 of the nest to monitor the owls' behavior. If in the opinion of the qualified biologist, the owls are unduly disturbed (i.e., disturbed to the point of harm or reduced reproductive success), all work within 250 feet of the occupied burrow will cease, and MM BIO-7 shall be implemented.	Throughout construction (as necessary)	Contractor	District

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Passively Relocate Burrowing Owls	MM BIO-9	If construction will directly impact occupied burrows, a qualified biologist will passively evict owls from burrows during the nonbreeding season (September 1 to January 31). No burrowing owls will be evicted during the nesting season (February 1 through August 31) except with the CDFW's concurrence that evidence demonstrates that nesting is not actively occurring (e.g., because the owls have not yet begun nesting early in the season, or because young have already fledged late in the season). Eviction will occur through the use of one-way doors inserted into the occupied burrow and all burrows within impact areas that are within 250 feet of the occupied burrow (to prevent occupation of other burrows that will be impacted). One-way doors will be installed by a qualified biologist and left in place for at least 48 hours before they are removed. The burrows will then be back-filled to prevent re-occupation. Although relocation of owls may be necessary to avoid the direct injury or mortality of owls during construction, relocated owls may suffer predation, competition with other owls, or reduced health or reproductive success as a result of being relegated to more marginal habitat. However, the benefits of such relocation, in terms of avoiding direct injury or mortality, would outweigh any adverse effects.	Throughout construction (as necessary)	Contractor	District
Restoration of Temporary Impact Areas	MM BIO-10	Upland ruderal/grassland habitat in Project Work Areas on both Sunnyvale Channels north of Caribbean Drive and in the staging areas that are temporarily impacted will be restored following the completion of construction. The District shall seed these areas with a native grassland/forb seed mix to allow for the resumption of conditions suitable for use by California ground squirrels and burrowing owls.	Throughout construction (as necessary)	Contractor	District
Compensatory Mitigation for Burrowing Owls	MM BIO-11	If direct impacts of occupied breeding habitat cannot be avoided (see MM BIO-8), compensatory mitigation will be provided in the form of habitat preservation and/or management. All ruderal/non-native grasslands located within the portion of the Project Work	Prior to construction	District	District

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		Area located north of Caribbean Drive are considered occupied breeding habitat, because (1) burrowing owls have been widely documented to occupy the grassland habitats on the old landfills surrounding the City of Sunnyvale Recycling Center and Water Pollution Control Plant (WPCP), (2) known occupied habitat in these areas is contiguous with potentially suitable burrowing owl habitat within the Project Site, and (3) burrows and associated surrounding habitat are essential ecological requisites for burrowing owls throughout the year (CDFG 2012). Habitat compensation shall be provided for all Project impacts that result in a permanent loss of ruderal/non-native grasslands north of Caribbean Drive at a ratio of 2:1, on an acreage basis. Additional habitat compensation will be provided in the event that any burrowing owls require relocation from suitable nesting habitat (i.e., north of Caribbean Drive or in Staging Area sites 13, 14, or 15). Mitigation will consist of preservation and/or management of owl habitat at a ratio of 9.75 – 19.5 acres of suitable habitat for every pair (or single owl, if unpaired) that must be relocated from these areas, in accordance with California Burrowing Owl Consortium (1993) guidelines. The amount of mitigation habitat provided will depend on whether the mitigation habitat is occupied by burrowing owls (9.75 acres), adjacent to occupied habitat (13.0 acres), or suitable but unoccupied (19.5 acres). Compensatory mitigation is not required in the unlikely event that owls require relocation from portions of the channels south of Caribbean Drive, as these areas do not provide suitable breeding habitat. Mitigation may be provided via the management of suitable habitat on District lands (either existing lands or lands that are acquired), purchase of credits in a mitigation bank (if one is available), or contribution of funds toward the management of the required amount of suitable habitat owned by another entity (e.g., partnering with the City of Sunnyvale to manage habitat on the old landfills north of Caribbean Drive). The mitigation site must be located in Santa Clara County, or in areas of San Mateo or			

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		Alameda counties adjacent to San Francisco Bay, so that the mitigation supports the maintenance of the South San Francisco Bay burrowing owl populations. If the District provides habitat mitigation either on existing District lands or on lands that are acquired for mitigation purposes, a habitat mitigation and monitoring plan (HMMP) will be prepared detailing the following: 1. the areas to be preserved for owls; 2. the methods for managing on-site habitat for owls and their prey (including vegetation management to maintain low-statured herbaceous vegetation); 3. methods for enhancing burrow availability within the mitigation site (potentially including the provision of artificial burrows, although long-term management for ground squirrels will be important as well); and 4. measures to minimize adverse effects of development on owls on the site; and a monitoring program and adaptive management program; and 5. performance indicators and success criteria, including the maintenance of ground squirrel burrows at a density similar to densities on the old landfills that currently support burrowing owls, and the maintenance of low-statured herbaceous vegetation.			
Maintain Buffer During Construction Adjacent to Salt Marsh Harvest Mouse and Salt Marsh Wandering Shrew Habitat	MM BIO-12	During levee raising activities along the south/east bank of the East Channel near its confluence with Guadalupe Slough, starting at the eastern edge of the Twin Creeks Sports Complex and continuing eastward, a minimum 10-foot buffer, measured as the straight-line distance (e.g., diagonally/down-slope on a sloped bank) will be maintained between the outer limits of Project construction activities (i.e., silt fence installation) and any marsh habitat present beyond the Project boundary (i.e., in the wetland	Throughout construction (as necessary)	Contractor	District

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		mitigation area to the south or along Guadalupe Slough to the north). In addition, Project personnel would ensure that the silt fencing in this area is sturdy and is regularly maintained so that no material falls into these wetlands during levee raising. Implementation of MM BIO-12 would ensure that no Project activities occur close enough to potentially occupied habitat to adversely affect these species, and would reduce this impact to a less-than-significant level.			
Avoid Construction during Bat Maternity Season	MM BIO-13	During the maternity season (April 1 through July 31), a 100-foot buffer, within which no new, construction-related activities shall occur, will be maintained around the Highway 237 bridge over the East Channel. Modification of the headwalls at, and any other work within 100 feet of, this bridge shall occur outside the maternity season (i.e., this work will occur between August 1 and March 31) so no non-flying young will be present and any bats using the bridge will be able to disperse if they cannot tolerate this disturbance.	Throughout construction (as necessary)	Contractor	District
HAZARDS AND HAZARDOUS MATERIALS					
Conduct a Phase I and Phase II Environmental Site Assessments and Implement Site Remediation Actions Prior to Construction.	MM HM-1	Prior to excavation activities, the District will ensure that a qualified contractor conducts a Phase I and Phase II Environmental Site Assessment (ESA) at excavation sites along the entirety of the West Channel and at excavation sites along the portion of the East Channel between East Evelyn Ave and 101 in accordance with ASTM Standard E1527 – 05 (Phase I ESA) and ASTM Standard E 1903-11 (Phase II ESA), and the EPA's All Appropriate Inquiries (AAI) Rule 2005-11-01 (EPA 40 CFR Part 312). Phase I and II ESAs generally expire after one year. The objective of the Phase I ESA will be to identify recognized environmental conditions (RECs), as defined by the ASTM Standard. The object of the Phase I ESA is also to satisfy Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) AAI requirements. The ESA will identify obvious areas of significant environmental concern through a	Throughout construction	Contractor	District

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		review of the site history, a review of the regulatory agency database information, the performance of a site reconnaissance, and the evaluation of potential impacts from adjacent properties. The findings of the Phase I will inform the Phase II ESA. Considering that the Phase I ESA completed in 2008 recommended completion of a Phase II ESA, a Phase II ESA will likely be recommended in the more recent Phase I ESA. The Phase II ESA will assess the presence of hazardous substances at the site by conducting tests of soil and water at the project site. Tests will evaluate concentrations pollutants, contaminants, petroleum and petroleum products, and human and ecological toxicity. If the conclusions of the Phase II ESA indicate that hazardous substances are not present in excavation areas and remediation of soil and groundwater is unnecessary to protect human health and the environment, all obligations of this mitigation will have been met. If the conclusion of the Phase II ESA indicate that soil or groundwater remediation are necessary to protect human health and the environment, the District will enter into a voluntary Remedial Action Agreement with the Santa Clara County Department of Public Health to ensure proper site remediation and soil and water handling procedures prior to conducting excavation or dewatering activities. The County, as the local oversight agency for the State Water Resources Control Board, will provide oversight and review of the Phase I and II ESAs and direct the District on site remediation actions.			

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NOISE					
Implement Measures to Minimize Construction Vibration.	MM NO-1	The District will implement the following measures to minimize vibration impacts at nearby residences surrounding construction activities at the Project Site. ▪ Phase construction activities that involve the use of vibratory equipment (vibratory roller and vibratory hammer) so the equipment will not operate in the same time period. ▪ Avoid the use of vibratory equipment where feasible in residential areas within 75 feet of the Project Work Area.	Throughout construction	Contractor	District
TRANSPORTATION TRAFFIC					
Develop and Implement a Site-Specific Traffic Control Plan	MM TR-1	The District will develop a site-specific traffic control plan with the following mitigating actions to minimize the effects of Project construction activities and traffic on surrounding roadways, bicycle and pedestrian facilities, transit services, and emergency access. The plan will be prepared by a licensed traffic engineer and be approved by the City of Sunnyvale. Traffic control shall consist of all work and materials necessary to maintain safe vehicular, pedestrian, and cyclist traffic during construction and mitigate high peak and high volume construction traffic, prevent idling and queuing, establish site access limitations and mitigation measures, identify haul routes, and provide overall control of all construction traffic entering and exiting and operating within the project area. To reduce traffic and related impacts during Project construction, the following mitigating actions will be specified in the Project construction traffic control plan: ▪ Prohibit work-site access via residential streets unless expressly approved by the City. ▪ Provide advance construction warning signage for lane closures. Limit lane closures to the duration and area	Throughout construction	District	District

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		required for safety. ▪ Restrict truck access to truck routes designated by the City. Heavy construction vehicles will be prohibited from accessing the Project Site from other routes. ▪ Limit truck access to the Project site between 7:00 a.m. and 6:00 p.m., unless approved in advance by the City in writing. ▪ Limit truck traffic on residential streets. At any given time, only two trucks are permitted on a residential street. ▪ Provide advance notification of necessary closures on pedestrian/bicycle facilities and maintain bicycle/pedestrian access and circulation during Project construction where safe to do so. Provide safe detour routes for bicycles and pedestrians if any closures on sidewalks, walkways, bike lanes, or trails are required. ▪ Provide crossing guards and/or flag persons as needed to avoid traffic conflicts and ensure pedestrian and bicyclist safety. ▪ Notify and consult with emergency service providers, and provide emergency access by whatever means necessary, to expedite and facilitate the passage of emergency vehicles. Ensure clear emergency access to all existing buildings and facilities at all times. The District will submit a Safety and Health Plan, including emergency access plans, for approval by emergency service providers in the affected areas (including local Police and Fire Departments) as part of the traffic control plan. ▪ Repair or restore the road ROW to its original condition or better upon completion of the work. ▪ Provide adequate parking for construction vehicles, equipment, and workers within the designated staging			

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		areas. If adequate parking space is not available at a given work site and staging area, provide an off-site parking area at another suitable location, and coordinate the daily transport of construction vehicles, equipment, and personnel to and from the work site, as needed. Trucks or worker vehicles are prohibited from parking or queuing on neighborhood streets. ▪ Maintain the access of the entrance/exit driveways at the City WPCP or at other City facilities, unless approved alternative access is provided or otherwise noted in the traffic control plan. The Project construction traffic control plan will be approved by the City of Sunnyvale prior to the mobilization of any construction equipment to the Project Site and commencement of daily construction activities. The District would also coordinate, as necessary, with Caltrans and/or VTA, for traffic controls and measures affecting Caltrans and/or VTA facilities. The District will be responsible for ensuring that the plan is effectively implemented.			
Utilities/Service Systems					
Existing Utilities will be Identified and Coordination will be Conducted with Utility Owners before Construction	MM UTL-1	The District shall ensure that construction contractors for the Project perform the following: ▪ The Contractor shall notify Underground Service Alert (U.S.A.) a minimum of 5 working days prior to start of excavation or demolition. ▪ The Contractor shall verify the exact location of all indicated or field marked utilities and make a sufficient number of exploratory excavations of all utilities that may interfere with the work sufficiently in advance of the construction. Contractor shall perform exploratory excavations in the presence of the owner of the utility to be explored. Contractor shall promptly notify the Engineer	Throughout construction	Contractor	District

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		when such exploratory excavations show the utility location as shown on the Drawings to be in error. ▪ The Contractor shall not interrupt the service function or disturb the support of any utility without authority from the utility owner or order from the Engineer. All valves, switches, vaults, and meters shall be maintained and be readily accessible for emergency shutoff. ▪ The District and the owners of utilities or their authorized agents may enter upon the rights of way at all times for the purpose of operations and maintenance of their facilities or for making necessary connections or repairs to their properties. The Contractor shall cooperate with the District and the affected utilities engaged in such work to avoid any unnecessary delay or hindrance to such work. ▪ The Contractor shall maintain a list of telephone numbers of owners of utilities that may be encountered during construction. ▪ The Contractor shall coordinate work near utilities and protect utilities during construction. Where it is known or anticipated that an existing utility will be encountered during construction, the Contractor shall be responsible for notifying and/or coordinating with the utility owner using the appropriate Drawings at least 5 working days in advance of work in which the utility will be involved.			
Existing Utilities will be Protected during Construction.	MM UTL-2	The District shall ensure that construction contractors perform the following: ▪ The Contractor shall do all work and furnishing all materials required for protecting in place or restoring all existing above and below ground utilities disturbed or damaged during construction to a condition equal to or better than that existing prior to construction.	Throughout construction (as necessary)	Contractor	District

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		▪ The Contractor shall protect all utilities which may be impacted by the work. All exposed utilities shall be supported firmly and uniformly, conforming to the utility requirements. No utilities shall be left exposed for a period exceeding 8 hours unless approved by the utility and the Engineer. Unless otherwise shown on the Drawings, all utilities shall be backfilled with at least 12 inches of select backfill. ▪ All utility pole and guy anchors shall be protected and, where the walls of the trench are within 5 feet of a pole or anchor, lateral support to the pole shall be provided or a State of California licensed Structural Engineer designs an alternative measure that is acceptable to the District Engineer. ▪ The Contractor shall immediately notify the utility owner and the Engineer if any existing utilities which have sustained damage prior to excavation, or if the plan for protection of open bodies of water from contamination for Engineer's review.			
Utility Customers will be Notified before Construction Activities Commence.	MM UTL-3	The District's Contractor is required to notify Underground Service Alert (U.S.A) a minimum of 5 working days prior to the start of excavation or demolition. Depending on the utility company, each company has minimum notifications requirements when notifying residents and businesses of interruptions to existing service. District's Contractor must comply with these minimum notification requirements set forth by the utility companies. The notification will include the timing and duration of potential service disruption. The District will conduct separately public outreach to notify the residents and businesses in the vicinity of the Project limits, a minimum of two (2) weeks prior to the start of Project's construction.	Prior to Construction	Contractor	District

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A Safety and Health Program will be Prepared and Implemented.	MM UTL-4	In compliance with Title 8 CCR, Section 5192, the District shall ensure the development and implementation of a written safety and health program and a site-specific Safety and Health Plan for construction contractors. The safety and health program shall be designed to identify, evaluate, and control safety and health hazards, and provide for emergency response for hazardous waste operations, including events such as a leak or explosion resulting from damage to a utility. In addition, the District shall notify local fire departments whenever damage to any utility is a threat to public safety. The District shall ensure that the Safety and Health Plan is implemented by the provision of any and all training, monitoring, personal protective equipment, protective clothing, devices, equipment, and/or facilities necessary for ensuring worker safety as may be recommended and/or specified in the Safety and Health Plan. ▪ Furthermore, the District shall ensure that all construction contractor personnel understand and comply with all site health and safety requirements specified in the Safety and Health Plan.	Throughout construction (as necessary)	Contractor	District