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TECHNICAL MEMORANDUM

Date: April 5, 2019 **BKF Job Number: 181006**

To: Kenner Guerrero
Associate Engineer
City of Pico Rivera

From: **Daniel Villines**
Sr. Project Manager
BKF

Subject: **National Pollution Discharge Elimination System Compliance Memorandum**
Pico Rivera Regional Bikeway Project (CIP No. 21280)

Project Description

The City of Pico Rivera (City) is implementing various bikeway improvements within the City to enable and encourage bicycle mobility. As a part of these improvements, the City is presently undertaking the Pico Rivera Regional Bikeway Project, CIP 21280 (Project).

The Project will consist of approximately 1.5 miles of bicycle lanes and will include a dedicated bicycle bridge crossing of the San Gabriel River (River). The proposed bicycle lanes will consist of a Class I bike path along Mines Avenue from the Rio Hondo Channel to the River. In the vicinity of River, the proposed path will turn north to align along the westerly edge of the San Gabriel Spreading Grounds and then turn east to align with the location of the proposed bridge crossing of the River.

The proposed bicycle bridge crossing of the San Gabriel River will be locate approximately 2,600 feet north of the Mines Avenue alignment. The layout for the bridge presently proposes a bridge structure that will consist of a steel trust of three spans supported by two support piers founded in the riverbed. The bridge abutments will be located outside of the main conveyance area. As such, other than the presence of the pier supports, the hydraulics of the River conveyance will remain predominately unaffected.

Once the proposed bike path crosses the River, the path will turn north to Whittier Boulevard. This portion of the path will be aligned along the easterly side of the River and coincide with the existing Class I bikeway.

As a part of the Project, several improvements to Mines Avenue between the Rio Hondo Channel and the San Gabriel River will be made. The improvements will include pavement reconstruction, reconfigured travel ways and parking lanes, and the reconfiguration of the median to include the proposed bike trail. The Project proposes to include the construction of two bioswales along both sides

of the median bikeway.

Applicable NPDES Permits

In 1972, The Clean Water Act became law [33 U.S.C. §1251 et seq.]. As a result, the State of California initiated the issuing National Pollutant Discharge Elimination System (NPDES) Permits through the State Water Resources Control Board and its nine Regional Water Quality Control Boards. The City of Pico Rivera is located in Region 4, the Los Angeles Region.

The present NPDES Permit that applies to the City was issued by the Los Angeles Regional Water Quality Control Board on November 8, 2012 as Order No. R4-2012-0175, NPDES Permit No. CAS004001. The permit states the requirements for the management of storm water discharges to downstream receiving waters that when implemented are consistent with water quality goals of the permit.

Additionally, it is recognized that construction activities are of a limited duration and require the implementation of pollution prevention measures that will expire with the completion of construction activities. To this end, the State Water Resources Control Board has issued a statewide permit that specifies the NPDES requirements for construction-related activities. The State General Construction Permit was issued by the State Water Resources Control Board on September 2, 2009 as Order No. 2009-0009-DWQ, NPDES Permit No. CAS000002.

Project NPDES Permit Requirements – Post Construction

The following discussion identifies the necessary actions needed for Project compliance with the Los Angeles Regional Water Quality Control Board Order No. R4-2012-0175, NPDES Permit No. CAS004001.

Order No. R4-2012-0175, Section V.C.4.c.i., Item (2) requires the City to adopt a green street policy. The City adopted a green street policy on April 22, 2014. In line with the green street policy, Order No. R4-2012-0175, V.D.7.b.i, Item (1.g), requires that street and road construction of 10,000 square feet or more of impervious surface area follow, to the maximum extent practicable, the USEPA guidance document entitled “Managing Wet Weather with Green Infrastructure: Green Streets” (December 2008 EPA-833-F-08-009). This document is commonly referred to as “Green Streets.”

The Green Streets publication identifies several Low Impact Development (LID) features that should be considered for incorporation into roadway projects. These features promote the reduction of pervious area as well as the capture and biological treatment or infiltration of storm water runoff from the roadway surface.

Given the adopted policy and permit requirements, the Project should incorporate Low Impact Development (LID) features as identified in the Green Streets document to the maximum extent practicable.

It is noted that the Project as presently proposed includes LID features to such an extent that they can

be accommodated without the burden of additional right-of-way acquisition. This level of incorporation could be considered as meeting the maximum extent practicable threshold. While LID features are not presently proposed for the proposed bridge, the incorporation of such features would be considered impractical due to the extraordinary cost of such features if located within a bridge structure.

The following is a lists the LID features that are presently proposed for incorporation into the Project:

- Bike path to be constructed of permeable pavement
- Bioswales incorporated in the proposed median on either side of the bike path
- Parking lanes constructed with permeable asphalt
- Reduction of the number of travel lanes

Therefore, based on the extent of LID feature incorporation, the Project can be reasonably considered to be in compliance with the Green Streets document, the City's green street policy, and the Los Angeles Regional Water Quality Control Board Order No. R4-2012-0175, NPDES Permit No. CAS004001.

Plans, Specifications, and Estimate (PS&E) documents will define these LID features for review prior to construction. A separate Standard Urban Stormwater Mitigation Plan (SUSMP) drawing sheet(s) will be prepared that identify the LID features in relationship to the overall Project. Details for the construction of the LID features will be included where best suited to accommodate Project construction sequencing. Throughout the Project development process, value engineering practices will be applied to the design of the LID features to bring about their cost-effective construction and economical post construction performance.

NPDES Permit Requirements – Construction Period

The following discussion identifies the necessary actions needed for Project compliance with State Water Resources Control Board Order No. 2009-0009-DWQ, NPDES Permit No. CAS000002 (State General Construction Permit). This permit applies to construction period activities and requires that Best Management Practices (BMPs) be defined and implemented to prevent the discharge of pollutants to storm water conveyances located downstream of the Project.

The Project is linear in configuration and will disturb in excess of one acre of land. As such, all requirements of the State General Construction Permit will apply to the Project. These requirements will necessitate the following actions:

1. Preparation of a Storm Water Pollution Prevention Plan (SWPPP) by a Qualified SWPPP Developer (QSD)
2. Uploading the SWPPP and other required documents such as the Notice of Intent (NOI) to the Storm Water Multi-Application Report Tracking System (SMARTS)
3. Obtaining a Waste Discharger Identification (WDID) number from the RWQCB

4. Implementation of the SWPPP during construction by a Qualified SWPPP Practitioner (QSP)
5. Perform storm event inspections, testing, and reporting as specified in the SWPPP
6. Prepare and file annual reports as required by the State General Construction Permit
7. File a Notice of Termination (NOT), a final site map, and photographs through SMARTS upon completion of the Project

It is important to note that the preparation of the SWPPP can be incorporated as an item of work identified in the PS&E documents and performed by the selected contractor. If the City chooses to this method of preparation, adequate time must be incorporated into the contract between award of the contract and the start of construction in order to accommodate the preparation of the SWPPP, its approval by the City, and the proper notifications of the Regional Water Quality Control Board.

By implementing the above-stated requirements, the Project will maintain compliance with the State Water Resources Control Board Order No. 2009-0009-DWQ, NPDES Permit No. CAS000002 during construction activities.

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Please feel free to call me at (949) 526-8488 should you have any questions.

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