

10-1E5204  
10-SJ-120-R1.3/R3.9  
Project ID: 1015000181

# **INFORMATION HANDOUT**

**For Contract No. 10-1E5201  
At 10-SJ-120-R1.3/R3.9**

**Identified by  
Project ID 1015000181**

## **MATERIALS INFORMATION**

**WATER SOURCE INFORMATION**

**ALTERNATIVE FLARED TERMINAL SYSTEM**

**FOUNDATION REPORT FOR NEW SIGN POST**

**10-1E5204**  
**10-SJ-120-R1.3/R3.9**  
**Project ID: 1015000181**

City of Manteca  
Water Quality Control Facility  
2450 W. Yosemite Ave.  
Manteca, CA 95337

**Contacts:**

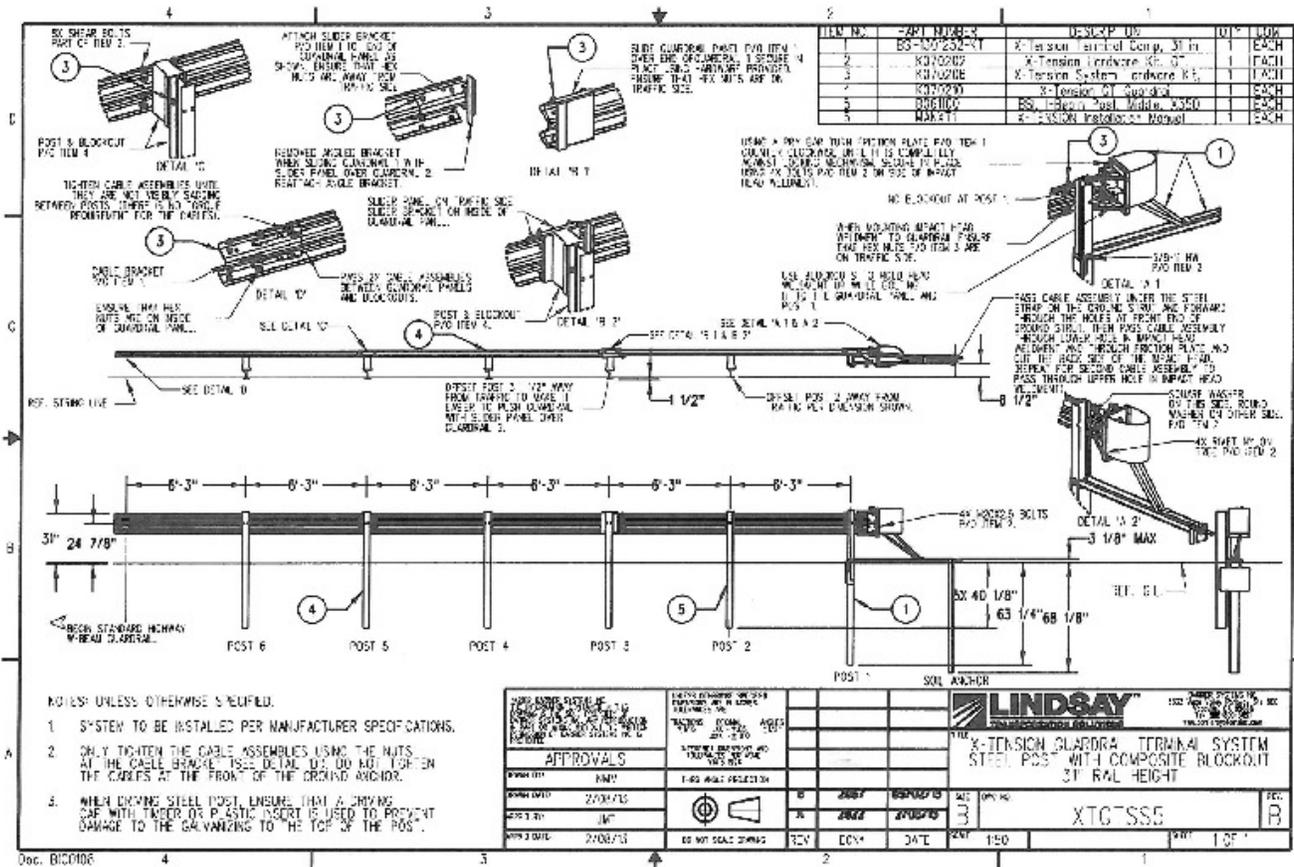
Heather Grove: email - hgorve@ci.manteca.ca.us, phone - (209) 456-8470

Justine Firmalo - email - jfirmalo@ci.manteca.ca.us, phone - (209) 456-8470

Jacelyn Renwick - email - jrenwick@ci,Manteca.ca.us, phone (209) 456-8433

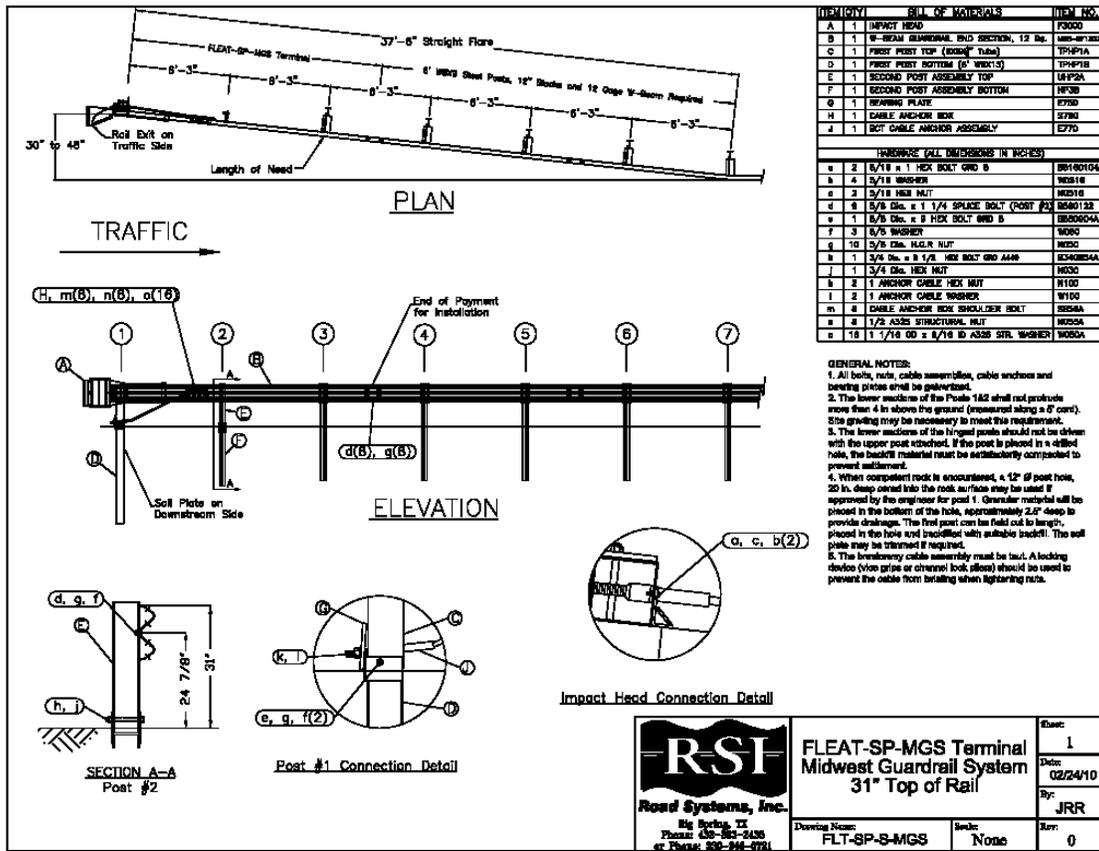
Permit Fee - None if within City of Manteca service area.

Driver certification required: Prior to taking recycled water, water truck drivers must attend a Recycled Water Workshop offered every other Wednesday at 8:00 a.m. Please call Justine Firmalo for available dates.









State of California  
DEPARTMENT OF TRANSPORTATION

California State Transportation Agency

## Memorandum

*Serious Drought.  
Help Save Water!*

To: MR. MICHAEL K. LIM  
Design Senior - Design IV  
Project Development  
Department of Transportation –District 10

Date: February 18, 2016

File: SJ-120-PM R1.75  
EA: 10-1E520  
PN: 1015000181  
CMS Sign Post

From: DEPARTMENT OF TRANSPORTATION  
DIVISION OF ENGINEERING SERVICES  
GEOTECHNICAL SERVICES  
OFFICE OF GEOTECHNICAL DESIGN NORTH

Subject: Foundation Report for a new sign post on Eastbound State Route 120.

Pursuant to your request, the Office of Geotechnical Design North (OGDN) has prepared this foundation report for the proposed sign post structure to be located in the center median along eastbound State Route 120 at post mile R1.75, between Guthmiller Road and McKinley Avenue, in the City of Manteca, California. This is proposed to be a 2015 Standard Plan Overhead Sign Project.

Our evaluation of the project site included reviews of the provided project plans, the 2015 Caltrans Standard Plans, and As-Built LOTBs for the adjacent bridges. Also a shallow hand auger pit was excavated to collect a representative soil sample for laboratory corrosion tests.

### Subsurface Conditions

There were not any subsurface test borings excavated at the proposed sign post location for this project. However, the As-Built LOTBs of two bridges nearby, West Yosemite Avenue UC (Br. No. 29-271) west of the proposed sign post and Wyche Overhead (Br. No. 29-272) east of the proposed sign post were reviewed for this report.

Based on the available As-Built LOTBs and site observations, the proposed sign post location is on an embankment fill. The thickness of the embankment fill is estimated to be between 30 and 40 feet thick, consisting of locally derived silty sands. Native soils underlying the fill consist of approximately 40 feet of loose to medium dense sand, silty sand, and stiff silty clay on the surface overlying layers of dense sand and silt at depth. Partial weak cementation was observed in these deeper dense layers of the native soils.

Groundwater was encountered just below the natural ground surface at elevations ranging from 0 to 8 feet as reported on the reviewed As-Built LOTBs. It should be noted that groundwater levels can fluctuate due to seasonal rainfall, surface runoff and other man-made conditions.

*"Provide a safe, sustainable, integrated and efficient transportation  
system to enhance California's economy and livability"*

Mr. Michael K. Lim  
February 18, 2016  
Page 2

Sign Post  
SJ-120-1.75  
1015000181

**CORROSION EVALUATION**

During the site visit, a shallow hand auger pit was dug to depth of 3 feet below the existing surface of the embankment fill in the median. A sample was collected from the site location for corrosion testing. We will update this report as soon as the laboratory test result become available.

**FOUNDATION RECOMMENDATIONS**

The proposed sign post will be a CMS Model 500 in Caltrans Standard Plan 2015. The sign may be supported by a standard plan CIDH pile foundation as shown on Standard Plan S116. Pile diameter is 5 feet and its length is 22 feet below the existing ground surface in the eastbound center median of the roadway, founded in the existing embankment fill.

Groundwater may be expected near the tip depth at this site so that the contractor should consider proper methods for CIDH construction. Minor caving during CIDH excavation should be also anticipated due to layers of fill soils and loose to medium dense granular soils at the site.

If additional information is desired, one soil boring may be done at the proposed sign post location to confirm assumed soil properties of embankment fill at the sign location.

**LIMITATIONS**

The recommendations contained in this report are based on the specific project information regarding structure types and locations. If any conceptual changes are made during final project design, OGDN should review those changes to determine if these foundation recommendations are still applicable.

If you have any question, please contact AnhDan Le (916) 227-1061 or Angel Perez-Cobo (916) 227-1038, Office of Geotechnical Design North.

  
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Cc: Abbas Abghari, OGDN