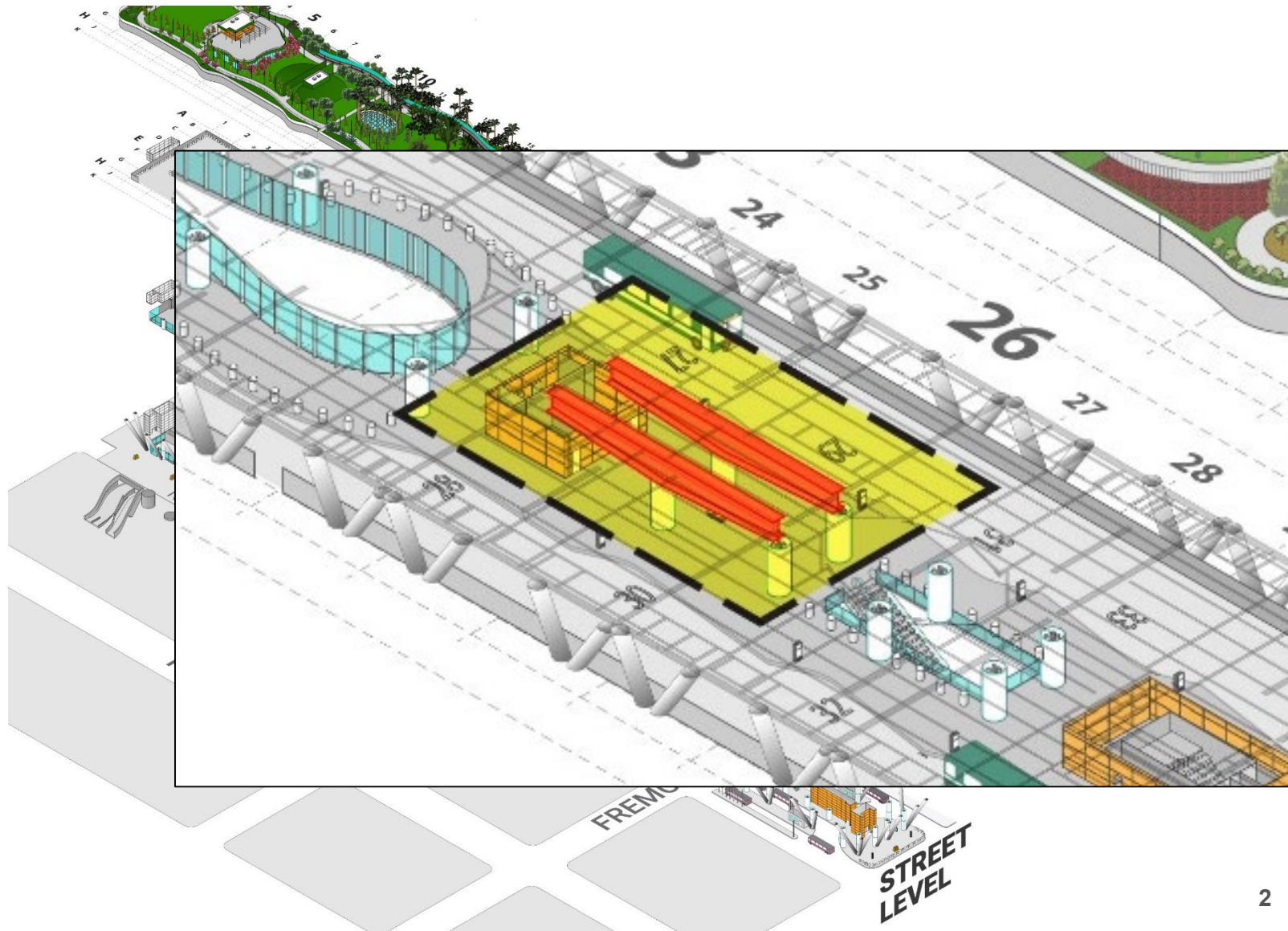


Update on the temporary closure of the Salesforce Transit Center

October 24, 2018



Isometric View – Fremont Street



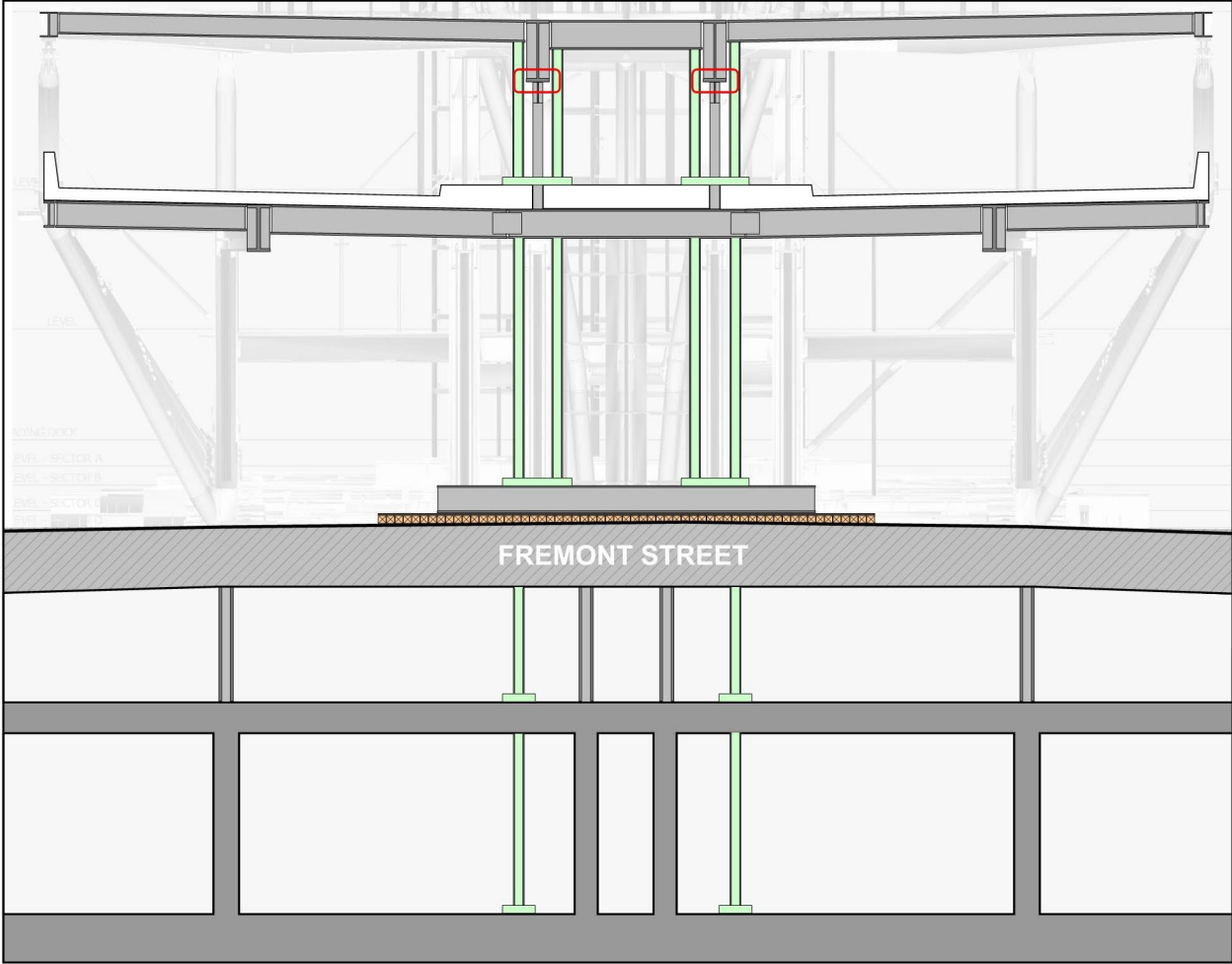
Hanger Beam



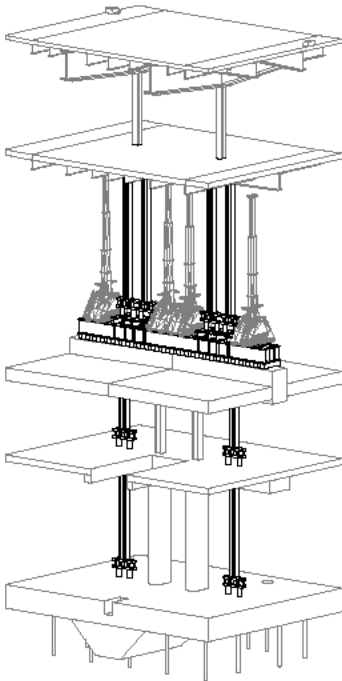
Fremont Street Temporary Support Initial Stabilization Removed - Phase 1



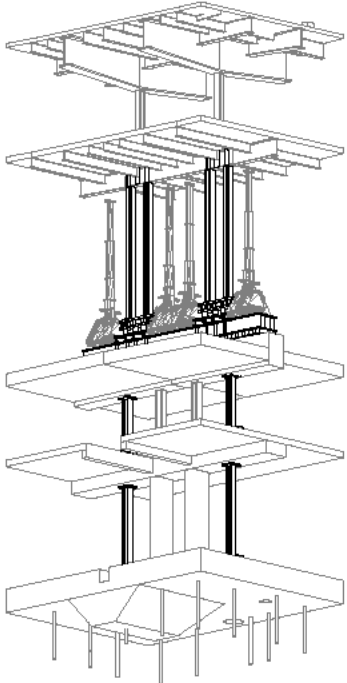
Fremont Street Temporary Support Schematic – Phase 2



Fremont Street Temporary Support Schematic – Phase 2



1 OVERALL 3D
S1-8105 SCALE:



2 OVERALL 3D FROM BELOW
S1-8105 SCALE:

Thornton Tomasetti 307 Wilshire Blvd., Suite 6450 Los Angeles, CA 90017-2018 T 213 390 7000 F 213 630 7001	OVERALL 3D VIEW			DRAWING NUMBER
	TRANSBAY TRANSIT CENTER PROJECT NUMBER: SS8510.00 DATE: SCALE:			S1-8105

Fremont Street Temporary Support Phase 2 (Ground Level)



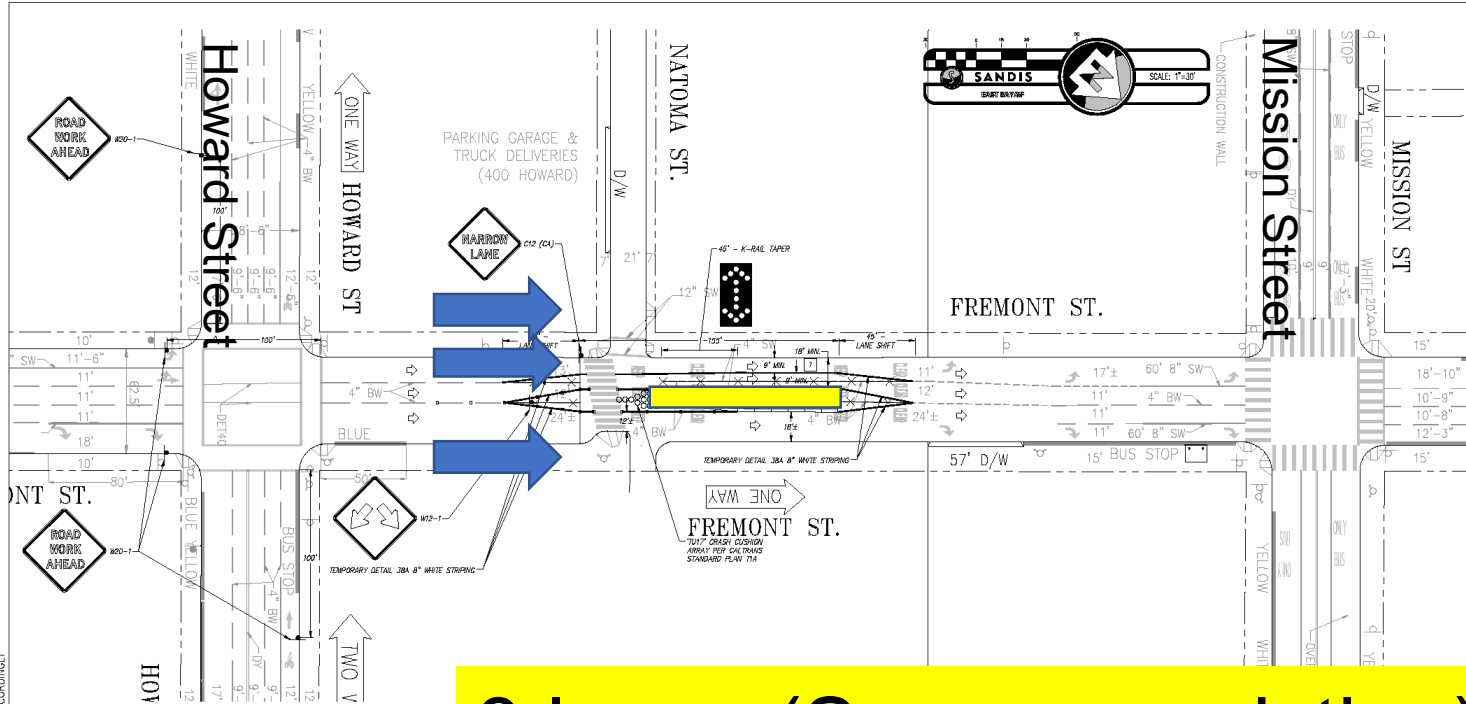
Fremont Street Temporary Support Phase 2 (Ground Level)



Fremont Street Temporary Support Phase 2 (Bus Deck Level)



Fremont Street Temporary Support Traffic Control Plan



GENERAL TRAFFIC CONTROL NOTES

1. CONTRACTOR SHALL PROVIDE EMERGENCY VEHICLE ACCESS AS REQUIRED.
2. CONTRACTOR SHALL POST TOW AWAY NO STOPPING SIGNS (TANS) WHERE APPLICABLE 72 HOURS IN ADVANCE OF IMPLEMENTING THIS TRAFFIC CONTROL PLAN.
3. TRAFFIC CONTROL DEVICES, SIGNS, AND METHODS SHALL ADHERE TO SECTION 8 OF THE 2014 CALIFORNIA MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (CA MUTCD), CITY AND COUNTY OF SAN FRANCISCO REQUIREMENTS AND THE LATEST 2015 CALTRANS STANDARD PLANS AND SPECIFICATIONS.
4. THE CONTRACTOR SHALL FURNISH, INSTALL, AND MAINTAIN DEVICES AS INDICATED BY THE ENGINEER. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE MAINTENANCE OF TEMPORARY TRAFFIC CONTROL IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS.
5. ALL TEMPORARY TRAFFIC CONTROL DEVICES SHOWN ON THIS PLAN SHALL BE RATED FOR NIGHT TIME USE.
6. ALL K-RAIL SHALL BE INSTALLED PER CALTRANS STANDARD PLAN T2A & T30. ALL K-RAIL SHALL BE STAKED PER TRAINING STAKING CONFIGURATION ADJACENT TO EXCAVATION" DETAIL ON CALTRANS STANDARD PLAN T18.

SHEET NOTES

1. CONTRACTOR SHALL VERIFY THAT A MINIMUM OF 18' CLEAR SPACE IS AVAILABLE BETWEEN FACE OF CURB AND FACE OF K-RAIL. IF 18' MINIMUM IS NOT AVAILABLE CONTRACTOR SHALL NOTIFY ENGINEER.

3 lanes (Same as existing)
2 through lanes on the left
1 through lane on the right

FREMONT STREET
TRAFFIC CONTROL
PLAN

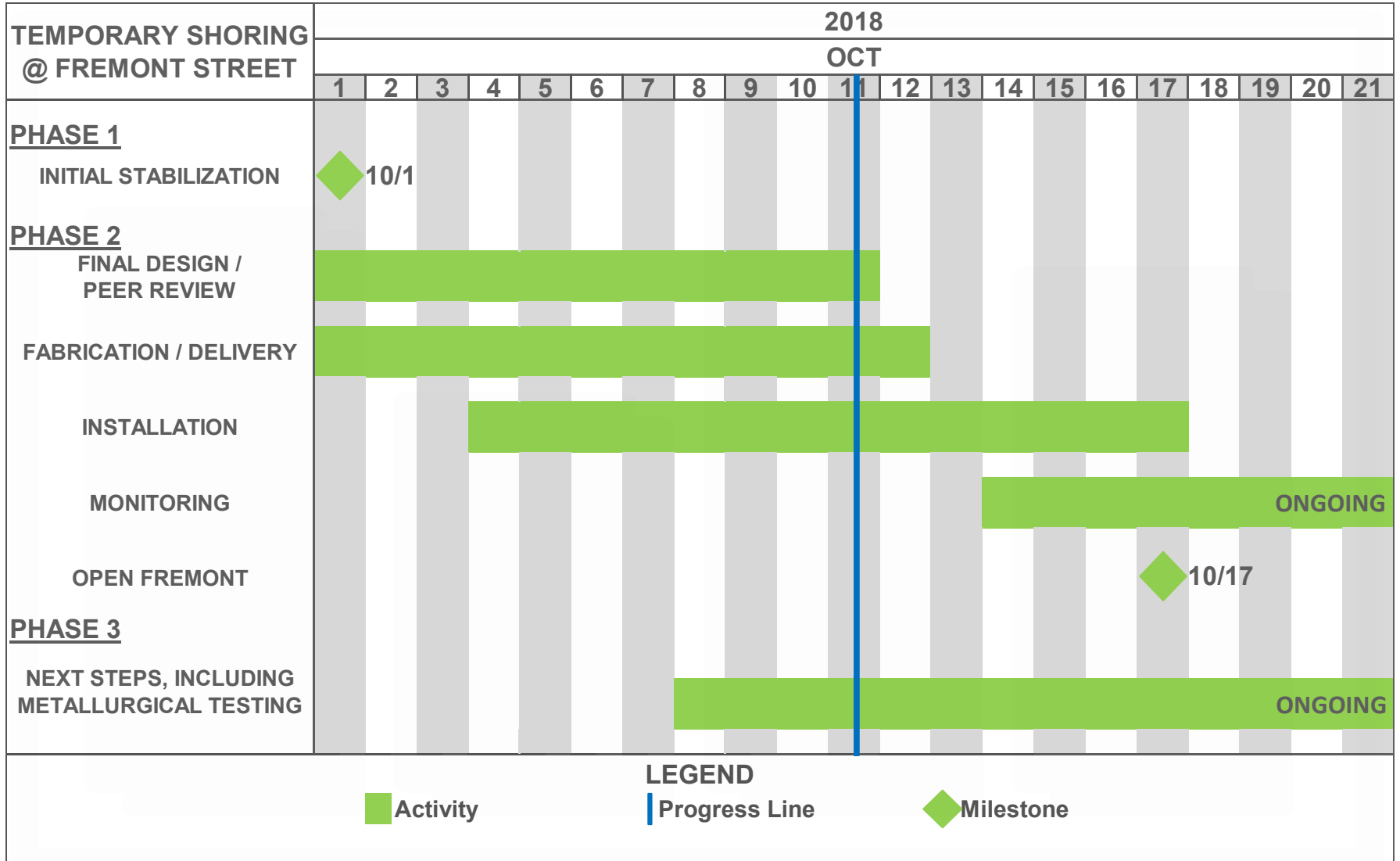
APPROVAL		DATE	INITIAL
RECEIVED TO: SEMA			
DATE WITH APPROVAL			
DATE	INITIAL		
DATE	INITIAL		
DATE	INITIAL		
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DATE	INITIAL		
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DATE	INITIAL		

1" = 30'
10/03/18

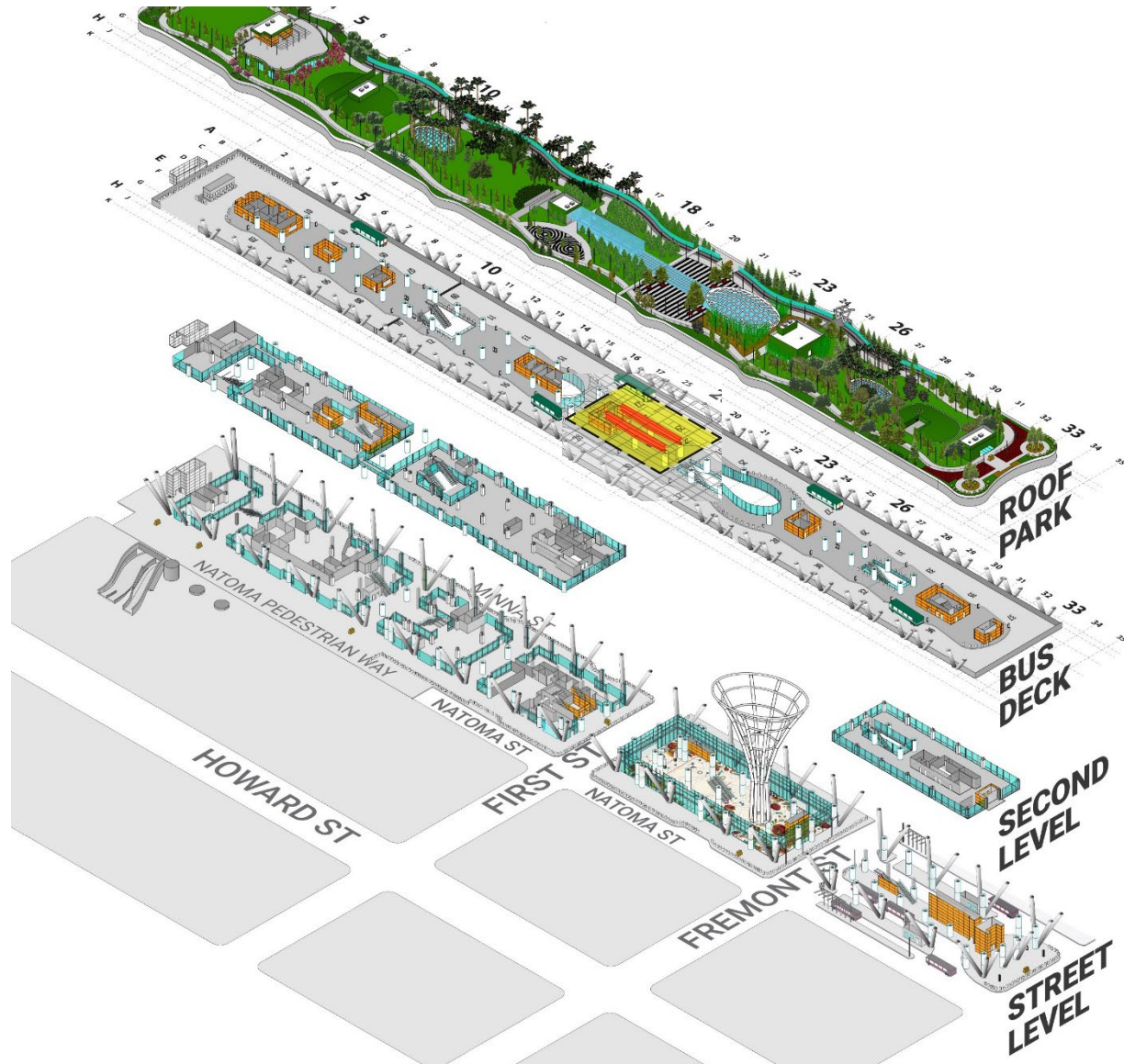
TRAFFIC CONTROL
PLAN

TC-1

Fremont Street Schedule



Isometric View – First Street



First Street Temporary Support Preparation



First Street Temporary Support Gantry Jacks installed



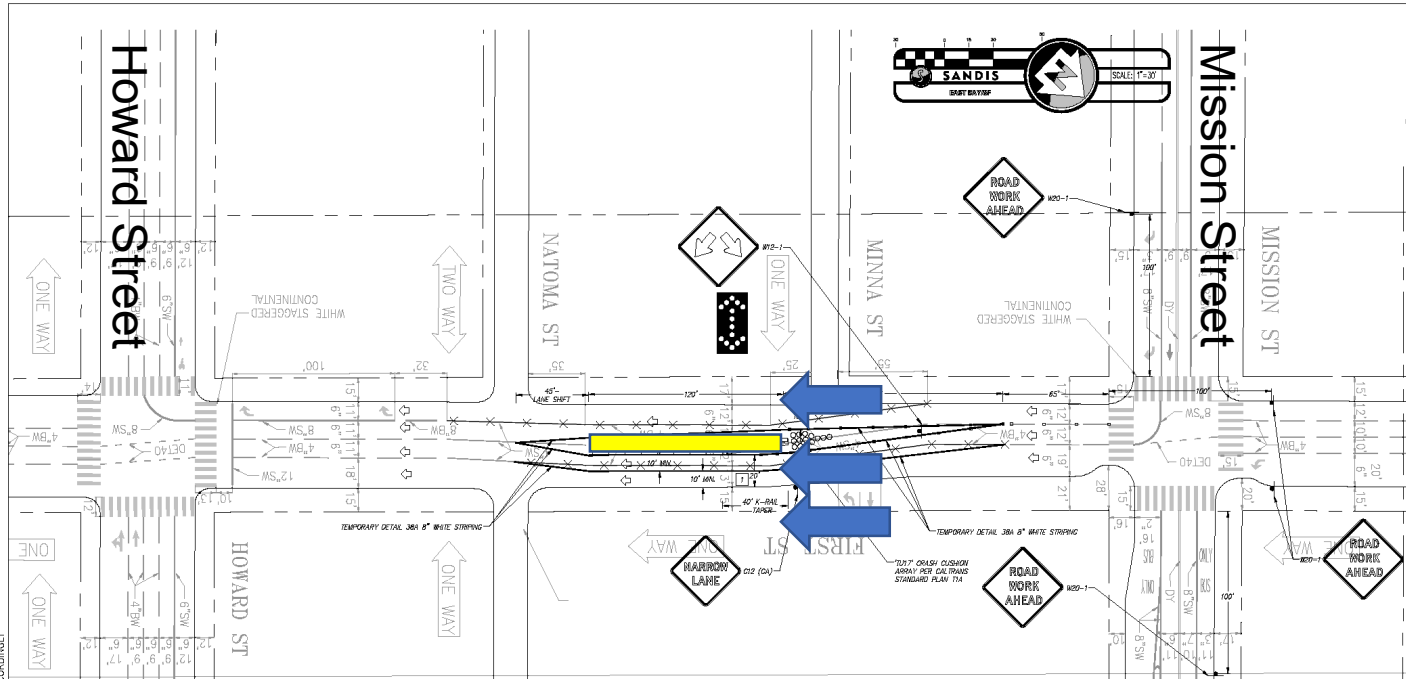
First Street Temporary Supports and Traffic Control installed



First Street Temporary Support Schematic



First Street Temporary Support Traffic Control Plan



GENERAL TRAFFIC CONTROL NOTES

- CONTRACTOR SHALL PROVIDE EMERGENCY VEHICLE ACCESS AS REQUIRED.
- CONTRACTOR SHALL POST TOW AWAY AND STOPPING SIGNS (TAGS) WHERE APPLICABLE 72 HOURS IN ADVANCE OF IMPLEMENTING THIS TRAFFIC CONTROL PLAN.
- TRAFFIC CONTROL DEVICES, SIGNS, AND METHODS SHALL ADHERE TO SECTION 8 OF 2014 CALIFORNIA MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (CA MUTCD), CITY AND COUNTY OF SAN FRANCISCO REQUIREMENTS AND THE LATEST CALTRANS STANDARD PLANS AND SPECIFICATIONS.
- THE CONTRACTOR SHALL FURNISH, INSTALL, AND MAINTAIN DEVICES AS INDICATED BY THE ENGINEER. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE MAINTENANCE OF TEMPORARY TRAFFIC CONTROL IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS.
- ALL TEMPORARY TRAFFIC CONTROL DEVICES SHOWN ON THIS PLAN SHALL BE RATED FOR NIGHT TIME USE.
- ALL K-RAIL SHALL BE INSTALLED PER CALTRANS STANDARD PLAN T3A & T3B. ALL K-RAIL SHALL BE STAKED PER TRAILING STAKING CONFIGURATION ADJACENT TO EXCAVATION DETAIL ON CALTRANS STANDARD PLAN T3B.

SHEET NOTES

- CONTRACTOR SHALL VERIFY THAT A MINIMUM OF 20' CLEAR SPACE IS AVAILABLE AT FACE OF CURB AND FACE OF K-RAIL. IF 20' MINIMUM IS NOT AVAILABLE CONTRACTOR SHALL NOTIFY ENGINEER.

**3 lanes (Same as existing)
2 through lanes on the left
1 through lane on the right**

TJPA
 TRANSBAY JOINT POWERS AUTHORITY

FIRST STREET TRAFFIC CONTROL PLAN

APPROVAL
 WEBCOR

RECEIVED	DATE	INITIAL
TO SFMTA		
TO W/O WITH SFMTA APPROVAL		

SFMTA

RECEIVED	DATE	INITIAL
ST REVIEW		
NO REVIEW		
APPROVAL		
ISSUES		

SHEET NO. _____ DATE _____
 REVISION _____ DATE _____

SCALE: 1"=30'
 DATE: 10/05/18

TRAFFIC CONTROL PLAN
TC-2

Next Steps after Shoring Installation

- Sampling and Testing underway this week (2 weeks)
- Determine Cause/Design Potential Fixes
- MTC Peer Review of recommended fix
- Implement permanent fix
- Open the Facility
- Complete a 2nd Peer Review of the Facility

Oversight Update

- Proposed 2018 MTC Peer Review Panel
 - 6 members chosen last week
 - Complete review of permanent fix
 - Initial kickoff meeting, site visits and Non-Destructive Testing review occurred last week
- Structural and Seismic Review Committee (Peer Review) on original design and pertinent shop drawings

Original Structural and Seismic Review Committee Members

- Loring Wyllie** – Senior Principal, Degenkolb Structural Engineering
- Mason Walters** – Senior Principal, Forell/Elsesser Structural Engineering
- Jack Moehle** – Professor of Structural Engineering, UC Berkeley
- Robin McGuire** – Senior Principal, Lettis Consultants International, Inc.
- Frieder Seible** – Professor Emeritus
Structural Engineering UCSD Jacobs School of Engineering
- Jonathan Bray** – Professor of Geotechnical Engineering,
UC Berkeley Faculty Chair in Earthquake Engineering Excellence

MTC Peer Review Team

- **Structural Steel Design and Engineering Expertise**
- **Forensic Expertise**
- **Materials/Metallurgy Expertise**

QUALITY CONTROL/QUALITY ASSURANCE PROGRAM

Quality Control and Quality Assurance Best Practices include multiple lines of defense built into a robust Quality Control (QC) and Quality Assurance (QA) Program at each step of construction.

- Supplier
- Fabricator
- Installer / CMGC
- Owner

QUALITY CONTROL/QUALITY ASSURANCE PROGRAM

Quality Control

Steel Mill (Nucor & ArcelorMittal)

Fabrication (Herrick)

Installation (Skanska/WOJV)

Quality Assurance

Testing and inspection (ISI/TCCo)





Thank You

TJPA
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