central contral

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Transmittal

CS Transmittal No. 2074 From: John Funghi To: Jeff Davis M544.1 Federal Transit Administration Project No./Contract No.: Task No./Title: 201 Mission St., Suite 1650 **Project Phase:** San Francisco, CA 94105 Central Subway Mitigation Monitoring Reporting Date: Sept. 28, 2012 Subject: Program Quarterly Update hand-delivered messenger Sent via: mail overnight jeffrey.davis@dot.gov \boxtimes email - Address: ☐ fax – **No**: Due date: The following: For your: information/use N/A estimate \boxtimes copy of letter/memo action □ schedule minutes/agenda review/comment report □ deliverable review comment form response to comment presentation no review comment form concurrence □ cd / dvd review comments incorporation of comments specifications half-size drawings response to comments verification concurrence with response signature full-size drawings verification of incorporation acceptance/approval sketches/maps/layouts reference material acceptance/approval other other

Reference:

Item No.	Copies	Description	Rev. No.	Date
1	1	Mitigation Monitoring and Reporting Program Update September, 2012		9/28/12
		If enclosures are not as noted, kindly notify us at once.		

Remarks: Enclosed is the latest quarterly MMRP Update. Please contact Lewis Ames if you have any questions or require additional information on 415-701-4226 or lewis.ames@sfmta.com.

John Funghi

Program Director

LA:sm

cc: David Kuehn, STV (w/attachments), <u>david.kuehn@stvinc.com</u>, Bradley Lebovitz, STV (w/attachments), <u>Bradley.lebovitz@stvinc.com</u> Eric Stassevitch, CSP (w/attachments) <u>eric.stassevitch@sfmta.com</u> CS File No. M544.1.5.0970.a







MEMORANDUM

CS Memorandum No. 207

DATE: September 28, 2012

- SFMTA Board of Directors TO: Tom Nolan, Chairman Cheryl Brinkman, Vice-Chairman Leona Bridges, Director Malcolm Heinicke, Director Jerry Lee, Director Joel Ramos, Director Cristina Rubke, Director
- THROUGH: Edward D. Reiskin Director of Transportation
- FROM: John Funghi Program Director, Central Subway Project
- Central Subway Program SEIS/SEIR Mitigation and Monitoring Reporting SUBJECT: Program (MMRP)

The Central Subway program is required, as part of its SEIS/SEIR, to mitigate impacts created by the program by both its construction and operation. The impacts include Transit, Traffic, Freight, Pedestrians, Bicyclists, Parking, Emergency Vehicles, Historic Resources, Archaeological Resources, Park and Recreational Resources, and Noise and Vibration. These impacts, and their required mitigation measures, are tabulated in the SEIS/SEIR.

The Central Subway team will update you quarterly on the progress of implementing the mitigation measures as the program progresses through design and construction. Attached is the latest guarterly update to this mitigation and monitoring implementation.

The majority of the mitigation measures are now incorporated in the design development and will continue during monitoring of the construction implementation (e.g. Tunnel Contract). The current update lists, for each of the Central Subway construction contracts, where in the drawings and technical specifications the mitigation of each impact is being addressed. Any changes since the last update are highlighted in a bold font. The mitigation measures that are now fully incorporated in the respective contract design documents are marked "Final Design Mitigation Closed".

San Francisco Planning Department CC: Federal Transit Administration CS File No. M544.1.5.0970.a

MMRP REPORTING TABLE				
PROJECT NAME AND CASE NO.	Central Subway	Project		
EPM CONTACT NAME AND PHONE NO.	Lewis Ames (415)	<u>) 701-4226</u>		
EPM SIGNATURE AND DATE				
SUBMITTAL DATE	<u>09/28/12</u>			
Monitoring and Reporting Action (from MMI	RP Table)	Reporting Mechanism	Completed?	
OPERATION – TRANSIT (TST)			(Y/N/O)	
	hin and increase	Monitor operations post construction	N	This will be implemented post construction. No abo
IM TST-1a: SFMTA will monitor transit ridersh the number, frequency, and/or size of trains and modification of the operating plan as warranted t capacity.	buses through	Monitor operations post construction.	N	This will be implemented post-construction No cha Relevant Drawings: N/A Relevant Technical Specs: N/A
IM TST-2a: The SFMTA and BART will prepa Station Improvement Coordination Plan for the H Station that will provide for, at a minimum, impl allocation of cost for any station infrastructure in necessary to maintain pedestrian safety and a peo service of D or better at the Powell Street Station Central Subway Project.	Powell Street lementation of the nprovements destrian level of	Monitor passenger flow on Concourse level of station in BART shared-use area.	0	This applies to the Union Square/Market St Subway S The Cooperative Agreement was executed on April 1 improvements is addressed in an amendment to the C executed on July 12, 2012. Relevant Drawings: N/A Relevant Technical Specs: N/A
OPERATION – TRAFFIC (TRF)		<u> </u>		
MM TRF-1a: Improve conditions by adding, via a shared through and right-turn lane from Fourth Street. This migration measure would require part the east side of Fourth Street, from Harrison Stre 200 feet to the north for lane transition purposes. changes would also help improve the operating of allocating the appropriate amount of green time to These improvements are projected to return inter- to LOS B.	A Street to Harrison arking removal on eet to a point about . Signal timing conditions by to all approaches.	Check Final Traffic Engineering documents for compliance.	0	This applies to the Systems/Trackwork Construction Incorporate additional shared thru and right turn lane Relevant Drawings: TR-022 , Final Traffic Striping; Relevant Technical Specs: N/A
MM TRF-2a: SFMTA will explore with the Tra Powers Authority, Caltrans, and Golden Gate Tr. as providing alternate truck routes, that will pern Stillman Street to reduce the impacts to a less-tha	ansit options, such nit truck access to	Check Final Traffic Engineering documents for compliance.	0	This applies to the Tunnels and to the Systems/Track For the Tunnels Contract - Final Design Mitigation T Specifications requires all lanes of Stillman St to rem Relevant Drawings: TR-020,021,025,026 Relevant Technical Specs: Spec 01 55 26 Article 3.02 Requirements For the Systems/Trackwork Contract Truck access to Stillman Street will be accessible at a Relevant Drawings: N/A (In-house implementation) Relevant Technical Specs: N/A (In-house implementation)

Comments/Notes

ange since last update.

Station Construction Contract only

19, 2011. Cost and work associated with required station infrastructure Cooperative Agreement. **The 1st amendment was approved and**

Contract only

from 4th street to Harrison Street. Fourth Street, Berry St. to Harrison St.

kwork Construction Contracts - No change since last update.

Гask Closed nain open at all times.

1 Vehicular and Pedestrian Traffic Table 2 Tabulation of Traffic Lane

all times.

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MMRP REPORTING TABLE				
PROJECT NAME AND CASE NO.	<u>Central Subway</u>	Project		
EPM CONTACT NAME AND PHONE NO.	Lewis Ames (415	<u>) 701-4226</u>		
EPM SIGNATURE AND DATE				
SUBMITTAL DATE	<u>09/28/12</u>			
Monitoring and Reporting Action (from MMI	RP Table)	Reporting Mechanism	Completed? (Y/N/O)	
OPERATION - FREIGHT AND LOADING ((FRT)	I	(1 4 2)	1
IM FRT-1a: Areas for new, permanent, on-street may be identified along Fourth Street (between H Streets) and/or appropriate side streets. Some of zones may need to displace existing parking space	King and Bryant the new loading ces.	Check Final Traffic Engineering documents for compliance.	0	This applies to the Systems/Trackwork Construction Existing parking stalls along 4th Street between Brya Construction Contract. SFMTA will investigate all e zones on the nearby cross streets. Relevant Drawings: N/A (In-house implementation) Relevant Technical Specs: N/A (In-house implement
IM FRT-2a: SFMTA will coordinate with the T Powers Authority and Golden Gate Transit to ide such as providing alternate truck routes that will access to Stillman Street.	entify options,	Check Final Engineering documents for compliance.	0	This applies to the Tunnels and to the Systems/Track For the Tunnels Contract - Final Design Mitigation T Specifications requires all lanes of Stillman St to ren Relevant Drawings: TR-020,021,025,026 Relevant Technical Specs: Spec 01 55 26 Article 3.0 Requirements For the Systems/Trackwork Contract Truck access to Stillman Street will be accessible at Relevant Drawings: N/A (In-house implementation) Relevant Technical Specs: N/A (In-house implement

Comments/Notes

Contract only - No change since last update.

vant and King streets, will be all eliminated after the Systems/Trackwork existing loading zones along 4th Street and will establish new loading

tation)

kwork Construction Contracts - No change since last update.

Task Closed nain open at all times. See MM TRF-2a.

01 Vehicular and Pedestrian Traffic Table 2 Tabulation of Traffic Lane

all times.

tation)

MMRP REPORTING TABLE				
PROJECT NAME AND CASE NO.	Central Subway	Project		
EPM CONTACT NAME AND PHONE NO.	Lewis Ames (415)	701-4226		
EPM SIGNATURE AND DATE				
SUBMITTAL DATE	09/28/12			
Monitoring and Reporting Action (from MMI	RP Table)	Reporting Mechanism	Completed?	
			(Y/N/O)	
OPERATION – PEDESTRIANS (PED)				
IM PED-1a: During final design, consideration ensure that stairways and escalators would not co sidewalk space for pedestrians.		Check Final Engineering documents for compliance.	Y	This applies to the Union Square/Market St Subway Station Construction Contracts - No change since lat For the Union Square/Market St Station Contract - F Northern Entrance (Union Square): Elevators, escala for pedestrians. Elevator vestibule waiting space is p space. Additionally, the width of the public sidewall feet. (Ref. AR-840, AR-851, AR-861, RP-108) Ellis Street Entrance: This entrance is to be reconstr Station entrance adjacent to the Apple Store. Similarly, the existing elevator on Market Street prov Two additional emergency egress stairs reach the sur In the normal closed position, the hatches provide a ta AR-731, RP-111.) Relevant Drawings: AR-050, AR-840, AR-851, AR- Relevant Technical Specs: N/A For the Chinatown Station Contract - Final Design M All the stairs, escalators, and elevators used for the n and do not compete with sidewalk circulation. Two of sidewalk. The exit hatches are flush with the sidewal emergencies when the station is being evacuated. Th compete with the sidewalk clearance even when oper Relevant Technical Specs: N/A For the Moscone Station Contract - Final Design Mit All the stairs, escalators, and elevators used for the n and do not compete with sidewalk clearance even when oper Relevant Drawings: AR-100, AR-114, AR-22, AR-7 Relevant Technical Specs: N/A
IM PED-1b: Elevator shafts should be located s the line of sight of motorists exiting the garage to pedestrian safety.		Check Final Engineering documents for compliance.	Y	This applies to the Union Square/Market St Subway Elevator shafts at the Union Square entrance are set I sidewalk. The distance from the mid-block garage v (Ref. AR-840, AR-862) Relevant Drawings: AR-840, AR-862 Relevant Technical Specs: N/A

Comments/Notes

Station, to the Chinatown Subway Station, and to the Moscone Subway **st update.**

Final Design Mitigation Task Closed

ator and stair are placed so as not to compete with public sidewalk space provided off of the public sidewalk / out of the pedestrian circulation k in the area of the Union Square entrance is increased from 10 feet to 17

ructed entirely within the footprint of the existing MUNI/BART Powell

vides access to UMS. (Ref. AR-050, AR-893, AR-894) rface through hatches located in the public sidewalk on O'Farrell Street. non-slip walkable surface that is flush with the sidewalk. (Ref. AR-050,

-861, AR-893, AR-894, RP-108, RP-111

Mitigation Task Closed

normal operation of the station are located within the headhouse property, of the emergency exit stairs (Stairs 4 and 7) terminate at hatches at the lk, with a non-slip surface, and can be walked on except during the exit hatch for stair 4, along Stockton St., is on a bulb-out, and does not en.

731

itigation Task Closed

normal operation of the station are located within the headhouse property, rgency stairs are placed to the inside of sidewalk right-of-way.

Station Construction Contract only - Final Design Mitigation Task Closed

back from the south edge of the planters and terraces adjacent to the vehicle entrance to the Union Square entrance is approximately 70 feet.

MMRP REPORTING TABLE				
PROJECT NAME AND CASE NO.	Central Subway	Project		
EPM CONTACT NAME AND PHONE NO.	Lewis Ames (414	5) 701-4226		
		5/101-4220		
EPM SIGNATURE AND DATE				
SUBMITTAL DATE	09/28/12			
Monitoring and Reporting Action (from MMR	RP Table)	Reporting Mechanism	Completed?	
			(Y/N/O)	
IM PED-1c: During final design, elevators, escal stairways should be kept as close as possible to th circulation path to facilitate disabled access.		Check Final Engineering documents for compliance.	Y	This applies to the Union Square/Market St Subway Station Construction Contracts For the Union Square/Market St Station Contract - H All elevators, escalators, and stairways are located w Relevant Drawings: AR-050 & AR-051 Relevant Technical Specs: N/A For the Chinatown Station Contract - Final Design M At the street entrance, the stairs, escalators, and elev circulation elements land at the ticketing hall, where Entering past the single array of faregates (including elevators directly to the front, and stairs to the right. Relevant Drawings: AR-114, AR-124, AR-154, AR Relevant Technical Specs: N/A For the Moscone Station Contract - Final Design Mi At the street entrance, the stairs, escalators, and elev circulation elements land at the ticketing hall, where Entering past the single array of faregates (including elevators o the left. All vertical circulation elements Relevant Technical Specs: N/A

Comments/Notes

Y Station, to the Chinatown Subway Station, and to the Moscone Subway

Final Design Mitigation Task Closed

within the primary circulation path to facilitate disabled access.

Mitigation Task Closed

vators are accessed from the same entrance lobby. All three vertical e the elevators open directly in front of the ticket vending machines. g one accessible faregate), passengers face escalators to the left, a pair of . All lead to the platform. The elevators land at the center of the platform. R-152

itigation Task Closed

vators are accessed from the same entrance lobby. All three vertical e the elevators open directly in front of the ticket vending machines. g one accessible faregate), passengers face stairs, escalators and a pair of a lead to the platform. The elevators land at the center of the platform.

MMRP REPORTING TABLE				
PROJECT NAME AND CASE NO.	Central Subway	<u>Project</u>		
EPM CONTACT NAME AND PHONE NO.	Lewis Ames (415)) 701-4226		
EPM SIGNATURE AND DATE				
SUBMITTAL DATE	<u>09/28/12</u>			
Monitoring and Reporting Action (from MMR	RP Table)	Reporting Mechanism	Completed?	
			(Y/N/O)	
OPERATION – BICYCLES (BIC)				
IM BIC-1a: Implementation of the Second and F projects are recommended to facilitate bicycle tra of Market area.		Monitor progress on these independent projects.	0	This applies to the Tunnels, to the Moscone Subway For the Tunnels Contract The 2nd Street bicycle lane implementation is to Pavement Renovation Project. This project is cu its anticipated implementation will be late 2013. with future Muni line (#30 &45) re-route. Relevant Drawings: N/A Relevant Technical Specs: N/A For the Moscone Station Contract The 2nd Street bicycle lane implementation is to Pavement Renovation Project. This project is cu its anticipated implementation will be late 2013. with future Muni line (#30 &45) re-route. Relevant Drawings: N/A Relevant Technical Specs: N/A For the Systems/Trackwork Contract The 2nd Street bicycle lane implementation is to Pavement Renovation Project. This project is cu its anticipated implementation will be late 2013. with future Muni line (#30 &45) re-route. Relevant Technical Specs: N/A For the Systems/Trackwork Contract The 2nd Street bicycle lane implementation is to Pavement Renovation Project. This project is cu its anticipated implementation will be late 2013. with future Muni line (#20 &45) re-route.
				with future Muni line (#30 &45) re-route. Relevant Drawings: N/A Relevant Technical Specs: N/A
OPERATION - EMERGENCY VEHICLE AC	CCESS (EMER)			
IM EMER-1a: SFDPT will be upgrading traffic	signals with	Monitor construction.	N	This applies to the Systems/Trackwork Construction
emergency vehicle preemption equipment in order emergency response time and to improve the sign several intersections near fire stations along the C	nal operation at			Traffic Signal upgrade along 4th Street between Har emption at the signalized intersections. To be imple Relevant Drawings: ET-001 through ET-154 Relevant Technical Specs: 34 41 13 traffic Signals
OPERATION - SOCIOECONOMIC (POPUL				
MM PH-1a: Redevelopment of the Chinatown S incorporate affordable housing and ground floor in		Redevelopment plans for the station areas are in the early stages of discussion by SFMTA Real Estate.	0	This applies to the Chinatown Subway Station Const
possible.		uiscussion by SI'WI A Real Estate.		Due to the small size of the parcel and current zonin financially infeasible. The current proposal is to buil Relevant Drawings: Drawings to be developed at a l Relevant Technical Specs: Specifications to be devel

Comments/Notes

V Station, and to the Systems/Trackwork Construction Contracts

be incorporated into a San Francisco Department of Public Works urrently going through the planning process within the SFMTA and The implementation of bicycle lanes on 5th Street is on-hold; in conflict

be incorporated into a San Francisco Department of Public Works urrently going through the planning process within the SFMTA and The implementation of bicycle lanes on 5th Street is on-hold; in conflict

be incorporated into a San Francisco Department of Public Works urrently going through the planning process within the SFMTA and The implementation of bicycle lanes on 5th Street is on-hold; in conflict

Contract only - No change since last update.

rison and King Streets will include emergency service vehicle preemented by SFMTA staff at the completion of Traffic Signal installation.

truction Contract only - No change since last update.

ng constraints, housing development has been explored and deemed ld open space above ground floor retail. later date.

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MMRP REPORTING TABLE				
PROJECT NAME AND CASE NO.	Central Subway	Project		
EPM CONTACT NAME AND PHONE NO.	Lewis Ames (415) 701-4226		
EPM SIGNATURE AND DATE				
SUBMITTAL DATE	<u>09/28/12</u>			
Monitoring and Reporting Action (from MM	RP Table)	Reporting Mechanism	Completed? (Y/N/O)	
MM PH-1b: State and federal relocation regulat implemented.	tions will be	Redevelopment plans for the station areas are in the early stages of discussion by SFMTA Real Estate.	0	This applies to the Chinatown Subway Station Cons since last update.
				A Relocation Impact and Last Resort Housing Study Supervisors in accordance with Federal and State rea all affected commercial tenants. Relevant Drawings: N/A Relevant Technical Specs: N/A
OPERATION - COMMUNITY FACILITIES	, ,			
IM CF-1a: During final design, minimize the for entrances to the subway in Union Square plaza v	would be designed	Check Final Engineering documents for compliance.	Y	This applies to the Union Square/Market St Subway - No change since last update.
and located in such a manner as to minimize the footprint and minimize disruption to park users.				The design of the station entrance at Union Square r accommodating all functions requiring a street level off-sidewalk queuing space) as well as station-relate incorporates an accessible roof terrace that is integra users. The design has been vetted by the Arts Comr Disability, and the Union Square Business Improver impact to the Union Square Park Users Relevant Drawings: AR-840, AR-851, AR-861, AR- Relevant Technical Specs: N/A
IM CF-1b: Design subway entrances so they are integrated with the existing park design.	e visually	Coordinate with Recreation and Parks Department Planners to review plans and monitor progress.	Y	This applies to the Union Square/Market St Subway - No change since last update.
				In addition to the compact footprint, the Union Squa underneath the stepping plaza terraces. The tallest for the minimum height accommodating their function. SFMTA Accessibility, the Mayors Office of Disabil integrates with the existing Union Square Park. Relevant Drawings: AR-861, AR-862, AR-864, AR- Relevant Technical Specs: N/A
OPERATION - HISTORIC ARCHITECTUR				
MM HARC-1a: Partial preservation of 933-949 incorporation of elements of the building into the station building; salvage significant architectural building for conservation into a historical display new Chinatown station or in museums; and/or de interpretive display for public use on the T-Third station walls. Conform to MOA between SHPO SFMTA.	e design of the new l features from the y or exhibit in the evelop a permanent d line cars or	Check Final Engineering documents for compliance.	Y	This applies to the Chinatown Subway Station Cons A Historic American Buildings Survey (HABS) R Company, the firm performing the HABS, has sta building that should be salvaged and/or installed Updated 09/17/12: Location of Historical Display clearer scope requirements. Future installation v Relevant Drawings: 1254R AR-254 Finish Plan Concourse Level - 4 Sheet # 432; CL-19920 Relevant Technical Specs: N/A

Comments/Notes

struction Contract only - Final Design Mitigation Task Closed - No change

y has been completed and approved by the SFMTA Board and SF Board of quirements. The SFMTA has relocated all affected residential tenants and

Station Construction Contract only - Final Design Mitigation Task Closed

ninimizes the surface level footprint of the station entrance while presence. These functions include the station vertical circulation (with ed systems and emergency response infrastructure. The entrance ated into the existing pedestrian circulation to minimize disruption to park nission, Parks and Rec Dept, SFMTA Accessibility, the Mayor's Office of ment District. The design minimizes the footprint, thereby minimizing the

-862

Station Construction Contract only - Final Design Mitigation Task Closed

are station entrance is designed as a low structure to set into and eatures of the entrance design - the elevator hoistways - have been held to The design has been vetted by the Arts Commission, Parks and Rec Dept, lity, and the Union Square Business Improvement District, and visually

-866, LA-401

truction Contract only - Final Design Mitigation Task Closed

Recordation has been performed and submitted Sept. 2011. Carey and ated, via letter, that there are no architectural elements of the existing on the new station.

⁷ Cases (NIC) are identified on Finish Plan - if required and with will be provided by Exhibition Designer (Other) through SFMTA.

MMRP REPORTING TABLE				
PROJECT NAME AND CASE NO.	Central Subway	Project		
EPM CONTACT NAME AND PHONE NO.	Lewis Ames (415	<u>) 701-4226</u>		
EPM SIGNATURE AND DATE				
	<u></u>			
SUBMITTAL DATE	<u>09/28/12</u>			
Monitoring and Reporting Action (from MM	RP Table)	Reporting Mechanism	Completed?	
MM HARC-1b: The final design of the Chinate	own Station will be	Check Final Engineering documents for compliance.	(Y/N/O) Y	This applies to the Chinatown Subway Station Constr
reviewed by the Environmental Review Officer, Preservation Coordinator, and a historic architec for compliance with the Secretary of Interior's s their compatibility with the character-defining fe district.	, the City et hired by MTA standards based on			The historic architecture firm Carey and Co. has a Interior's standards based on their compatibility of Letter dated April 4, 2012. A review has also been the City Preservation Coordinator. The San Fran Evaluation Response'' (HRER) dated 04/26/12 wh noted in HRER attachments is compliant with the Mitigation Measure. (updated 09/17/12) Relevant Drawings: AR-104 Rev. 1 (CL-19900) - F AR-114 Rev. 1 (CL-19901) - Floor Plan Surface Lo AR-300 Rev. 1 (CL-19927) - Exterior Elevations; AR-302 Rev. 1 (CL-19929) - Glass Enclosure Eleva AR-303 Rev. 1 (CL-19930) - Glass Enclosure Eleva Update 09/17/12: Stockton Street Elevation to hav "punched" window openings. Update 09/17/12: Note that Contract 1254 has been to Relevant Technical Specs: Spec. 12 10 10 (1254 Add *Washington Street Fascia Art Work;
MM HARC-1c: Prior to demolition of the 933- Street building a Historic American Buildings S American engineering Record documentation w	urvey/Historic	Check Final Engineering documents for compliance.	Y	This applies to the Chinatown Subway Station Constr Final Design Mitigation Task Closed The historic architecture firm of Carey and Co. has pe HABS Recordation report has been submitted to SHF California at Berkeley. (updated: 09/17/2012) Relevant Drawings: Structural Demolition Drawin SD-200 (CL-19534), see Demolition Note #12; SD-201 (CL-19535), see Demolition Note #11; SD-202 (CL-19536), see Demolition Note #11; SD-203 (CL-19537), see Demolition Note #11; SD-204 (CL-19538), see Demolition Note #11; SD-205 (CL-19539) Elevations Relevant Technical Specs: Spec. 02 41 16 - Structure

Comments/Notes

ruction Contract only - Final Design Mitigation Task Closed

reviewed the drawings for compliance with the Secretary of with the character-defining features of the district. See Carey & Co. on performed concurrently by the Environmental Review Officer and ncisco Planning Department as performed a "Historic Resource hich states that the new station construction with design adjustments e Secretary of Interior's Standards and meets the requirements of this

Roof Plan ævel - 4;

vations and Sections; ations and Sections;

ve same glass facade rhythm from Washington Street with

replaced by Contract 1254R. lendum #2)

ruction Contract only

erformed this HABS documentation (Sept. 2011); and copies of the PO, SF Planning, SF History Center & Bancroft Library at University of

ngs: (updated: 09/17/2012)

ural Demolition, para. 1.02 A Historic Items (09/17/12)

MMRP REPORTING TABLE				
PROJECT NAME AND CASE NO.	<u>Central Subway</u>	Project		
EPM CONTACT NAME AND PHONE NO.	Lewis Ames (415)	<u>) 701-4226</u>		
EPM SIGNATURE AND DATE				
SUBMITTAL DATE	<u>09/28/12</u>			
Monitoring and Reporting Action (from MM	RP Table)	Reporting Mechanism	Completed? (Y/N/O)	
IM HARC-2a: Less-than-significant visual imp Square Station will be minimized through the us architectural materials that would be compatible surrounding structures and landscape. The final station will be subject to review by the Recreation Department.	e of design and with the design for the	Check Final Engineering documents for compliance. Coordinate with Recreation and Parks Department.	Y	 This applies to the Union Square/Market St Subway No change since last update. The area of terraced lawns and seating west of the ne and finishes. The new entrance fascia is clad in prec Similarly, terraces and other hardscape features are d finishes are limited to minimal glass guardrails at the doors. Landscaping at the Union Square entrance includes I existing south edge of the park. The design has been vetted by the Arts Commission, Square Business Improvement District; architectural landscape of Union Square Park. Relevant Drawings: AR-861, AR-862, AR-864, AR-Relevant Technical Specs: 03 45 00 Precast Architectural
OPERATION - VISUAL AND AESTHETIC	RESOURCES (VA	ES)	•	•
MM VAES-1a: Station architectural treatment f façade in the visually sensitive Union Square Pa developed in consultation with the Planning, Red Departments, and the Union Square business ass	rk would be creation and Parks sociations.	Check Final Engineering documents for compliance. Coordinate with city agencies and community/ business groups during design development.	Y	This applies to the Union Square/Market St Subway - No change since last update. The design has been vetted by the Arts Commission, Square Business Improvement District; the station ar surrounding structures and landscape of Union Squar Relevant Drawings: AR-851, AR-862, AR-863 Relevant Technical Specs: 03 45 00 Precast Architec
MM VAES-2a: Exterior treatment of the Chinat vent shaft would be developed in consultation w Department, Architectural historians, the City H Preservation Coordinator, and the Chinatown co preliminary and final design.	ith the Planning	Exterior treatment of the Chinatown Station and vent shaft would be developed in consultation with the Planning Department, Architectural historians, the City Historic Preservation Coordinator, and the Chinatown community during preliminary and final design.	0	This applies to the Chinatown Subway Station Const since last update. The 90% Design Documents were provided to the Pl review. They had no issues with the exterior treatme station were incorporated into the final contract docu findings. These findings were not of any significanc 90% Design Documents were provided to the Chinat that required changes to the final contract documents Advisory Committee who also had no comments that Relevant Drawings: N/A Relevant Technical Specs: N/A

Comments/Notes

Station Construction Contract only - Final Design Mitigation Task Closed

ew station entrance is to be restored to match the existing terrace design cast stone panels matching the existing adjacent precast planters. detailed and specified to match existing finishes and detailing. New e terrace level parapet, and glass and steel elevator hoistway enclosure and

lawn terraces, trees, and shrubs in planters, matching the design of the

Parks and Rec Dept, the Mayors Office of Disability, and the Union materials used are compatible with the surrounding structures and

866, LA-401 ctural Concrete; 09 75 00 Stone Facing

Station Construction Contract only - Final Design Mitigation Task Closed

, Parks and Rec Dept, the Mayors Office of Disability, and the Union rchitectural treatment for the exterior façade is compatible with the re Park.

ctural Concrete; 09 75 00 Stone Facing

ruction Contract only - Final Design Mitigation Task Closed - No change

lanning Depart, which includes the Historic Preservation Coordinator, for ent of the vent shaft. Their comments on the exterior treatment of the uments. The historical architectural firm of Carey and Co. provided ce and didn't require addressing in the final contract documents. town Community representatives (CCDC) who provided no comments s. Community outreach was also performed by presenting to the Citizens at required addressing in the final contract documents.

MMRP REPORTING TABLE				
PROJECT NAME AND CASE NO.	Central Subway	Droject		
FROJECT NAME AND CASE NO.	<u>Central Subway</u>			
EPM CONTACT NAME AND PHONE NO.	Lewis Ames (415)	701-4226		
EPM SIGNATURE AND DATE				
SUBMITTAL DATE	09/28/12			
Monitoring and Reporting Action (from MM		Reporting Mechanism	Completed?	1
womtoring and Keporting Action (from wiwh	KI Table)	Kepot ung Weenamsm	(Y/N/O)	
OPERATION - NOISE AND VIBRATION (N	NV)		(1/1/0)	<u> </u>
MM NV-1a: Vibration propagation testing will	be conducted at	Testing pre-construction.	0	This applies to the Systems/Trackwork Construction
this location during final engineering to determin	ne the predicted			
impacts and finalize the mitigation measures. M implement high resilience (soft) direct fixation fa				Vibration testing at 570 Fourth Street was comple Relevant Drawings: TC-115, TC-212
location for embedded track. Implementation of	f this measure			Relevant Technical Specs: 34 11 10 Basic Trackword
would reduce the vibration impacts to a less-than	n-significant level.			finished
IM NV-2a: Noise control improvement measure		Design has already been modified to place TPSS substations	Y	This applies to the Union Square/Market St Subway
San Francisco Noise Ordinance will be determin		underground to provide sound attenuation.		Station Construction Contracts - No change since la
design, but could include enclosing TPSS in mas with sound-rated doors or gates and providing so		Check Final Engineering documents for compliance related to Emergency Vent Shafts.		For the Union Square/Market St Station Contract - F
all emergency ventilation openings of any ancilla				All emergency ventilation openings will have sound
buildings.				substation located at this station. Relevant Drawings:
				MV142, MV143, MV153, MV803
				Relevant Technical Specs:
				23 88 20 Sound Attenuators for Station and Tunnel
				For the Chinatown Station Contract - Final Design M
				All emergency ventilation openings will have sound is located on the sub-surface platform level and will
				Relevant Drawings:
				MV141, MV143, MV154, MV803, AR-024
				Relevant Technical Specs: 23 88 20 Sound Attenuators for Station and Tunnel
				For the Moscone Station Contract - Final Design Mit
				All emergency ventilation openings will have sound is located sub-surface on the under-platform level an
				Relevant Drawings: MV121, MV122, MV123, MV8
				Relevant Technical Specs: 23 88 20 Sound Attenuat

Comments/Notes

Contract only

leted June 2012.

rk materials and Methods. Spec Sections to be added when design is

v Station, to the Chinatown Subway Station, and to the Moscone Subway ast update.

Final Design Mitigation Task Closed I attenuators provided between the fans and the opening. There is no TPSS

Ventilation

Mitigation Task Closed l attenuators provided between the fans and the opening. TPSS substation not be heard.

Ventilation

itigation Task Closed I attenuators provided between the fans and the opening. TPSS substation nd will not be heard. 803, AR-053 itors for Station and Tunnel Ventilation

MMRP REPORTING TABLE				
PROJECT NAME AND CASE NO.	<u>Central Subway</u>	<u>Project</u>		
EPM CONTACT NAME AND PHONE NO.	Lewis Ames (415	<u>) 701-4226</u>		
EPM SIGNATURE AND DATE				
SUBMITTAL DATE	09/28/12			
Monitoring and Reporting Action (from MMI		Reporting Mechanism	Completed?	
internet and help it and it could be the	11 1 u bic)		(Y/N/O)	
CONSTRUCTION – TRANSIT (CNTST)		•		
IM CNTST-1a: SFDPT would develop and imp routes for non-transit traffic to minimize disruption routes.		Check Final Engineering documents for compliance. Monitor construction.	0	This applies to all of the Construction Contracts - No For the Utilities Relocation #2 Contract - Final Desig Alternate routes for non-transit traffic are provided in Relevant Drawings: TR-009 and TR010 Relevant Technical Specs: 01 55 26 Traffic Regulati For the Tunnels Contract - Final Design Mitigation T Alternate routes for non-transit traffic are provided in Relevant Drawings: TR-022,023,024 AND 025 Relevant Technical Specs: 01 55 26 Traffic Control For the Union Square/Market St Station Contract Specifications require the contractor to submit a Traf for non-transit traffic to minimize the disruption to tr Relevant Drawings: TR-022 through TR-023 Relevant Technical Specs: 01 55 26 Traffic Regulati For the Chinatown Station Contract Specifications require the contractor to submit a Traf for non-transit traffic to minimize the disruption to tr Relevant Drawings: TR-024 Relevant Technical Specs: 01 55 26 Traffic Regulati For the Chinatown Station Contract Specifications require the contractor to submit a Traf for non-transit traffic to minimize the disruption to tr Relevant Drawings: TR-004 Relevant Technical Specs: 01 55 26 Traffic Regulati For the Moscone Station Contract Specifications require the contractor to submit a Traf for non-transit traffic to minimize the disruption to tr Relevant Drawings: TR-013 through TR-015 Relevant Technical Specs: 01 55 26 Traffic Regulati For the Systems/Trackwork Contract Specifications require the contractor to submit a Traf for non-transit traffic to minimize the disruption to tr Relevant Technical Specs: 01 55 26 Traffic Regulati

Comments/Notes

o change since last update. gn Mitigation Task Closed n plans and are being implemented during construction.

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Task Closed 1 plans.

affic Control Plan (TCP) for approval. This TCP will include detour routes aransit routes.

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ffic Control Plan (TCP) for approval. This TCP will include detour routes ransit routes.

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affic Control Plan (TCP) for approval. This TCP will include detour routes aransit routes.

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ffic Control Plan (TCP) for approval. This TCP will include detour routes ransit routes.

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MMRP REPORTING TABLE				
PROJECT NAME AND CASE NO.	Central Subway 1	Project		
EPM CONTACT NAME AND PHONE NO.	Lewis Ames (415)	701-4226		
EPM SIGNATURE AND DATE				
SUBMITTAL DATE	09/28/12			
Monitoring and Reporting Action (from MMI	RP Table)	Reporting Mechanism	Completed? (Y/N/O)	
IM CNTST-1b: Overhead wires for the 30-Stock Union/Stockton lines will be temporarily relocate to alternative routes where feasible or motor coad temporarily substituted on alternative routes.	ed or reconstructed	Check Final Engineering documents for compliance. Monitor construction.	Y	This applies to the Utilities Relocation #2, to the Un and to the Chinatown Subway Station Construction of For the Utilities Relocation #2 Contract - Closed New overhead lines to detour 30 and 45 from Stockt detour is in place using these lines. Relevant Drawings: 0V-180 through OV-189 Relevant Technical Specs: Division 34 For the Union Square/Market St Station Contract - C The overhead wires have been relocated by the Utili Station project. Relevant Technical Specs: N/A Relevant Technical Specs: N/A For the Chinatown Station Contract - Closed The overhead wires have been relocated by the Utili Relevant Drawings: N/A Relevant Technical Specs: N/A For the Moscone Station Contract - Closed The overhead wires have been relocated by the Utili Relevant Technical Specs: N/A Relevant Technical Specs: N/A
IM CNTST-2a: SFMTA would coordinate with Powers Authority (Transbay Joint Powers Autho Gate Bridge, Highway, and Transit District (GGI minimize construction impacts on Golden Gate T would stage excavation shaft construction and ut maintain access to the bus storage facility by Gol and work with GGBHTD to develop bus detour r continued access. Access to the construction sha scheduled to avoid conflict with the active bus pe	rity) and Golden BHTD) to Fransit. SFMTA ility relocation to Iden Gate buses routing plans for fft would be	Check Final Engineering documents for compliance. Monitor construction.	Y	This applies to the Tunnels Construction Contract of Access to proposed GGBHTD bus storage is to Perr "Maintain the access on both Perry Street and Stillm approved by the City, and Contractor shall notify the Relevant Drawings: TR-020,021,025,026 Relevant Technical Specs: Spec 01 55 26 Article 3.0

Comments/Notes

nion Square/Market St Subway Station, to the Moscone Subway Station, Contracts - No change since last update.

ton to Sutter, Mason and Fifth Streets have been installed and the bus

Closed ity Contract 2 and are available for use for the Union/Square/Market St

ity Contract 2 and are available for use for the Chinatown Station project.

ity Contract 2 and are available for use for the Moscone project.

nly - Closed - No change since last update.

ry Street from Fourth St. Specification requirement regarding Perry Street: nan Street at all times. Any scheduled closure of these two streets must be e residents about the schedule and duration of the closure."

02 Traffic Control and Construction Phasing

MMRP REPORTING TABLE				
PROJECT NAME AND CASE NO.	Central Subway	Project		
EDM CONTACT NAME AND DHONE NO	Lowis Amos (415)	701 4006		
EPM CONTACT NAME AND PHONE NO.	Lewis Ames (415)	//01-4226		
EPM SIGNATURE AND DATE				
SUBMITTAL DATE	<u>09/28/12</u>			
Monitoring and Reporting Action (from MMR	RP Table)	Reporting Mechanism	Completed?	
			(Y/N/O)	
IM CNTST-3a: SFMTA and BART will prepare Station Improvement Coordination Plan to includ management procedures and processes to address construction and operational impacts resulting fro boring. SFMTA will also coordinate with BART bridges, if needed, public outreach, and other pro- minimize impacts to transit riders during construct	le construction s any and all om the tunnel I to develop bus grams to	SFMTA monitoring and report to BART		This applies to the Tunnels and to the Union Square/ For the Tunnels Contract Memorandum of Agreement signed by SFMTA and assess TBM tunneling settlement control performance extensive surface settlement instrumentation and requ of BART tunnels. Relevant Drawings: BP-122,123,124 and BP-313,310 Relevant Technical Specs: 01 76 29 Protection of Ex 31 09 13 Geotechnical Instrumentation and Monitor 31 09 15 Structural Instrumentation and Monitoring 31 43 14 Compensation Grouting For the Union Square/Market St Station Contract The Cooperative Agreement was executed on Apr infrastructure improvements is addressed in an ar approved and executed on July 12, 2012. Relevant Drawings: N/A Relevant Technical Specs: N/A

Comments/Notes

Market St Subway Station Construction Contracts

BART in February 2011 establishes an Independent Review Panel to ce. Other elements of strategy for protection of BART facilities includes puired survey and installation real time deformation instrumentation inside

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ril 19, 2011. Cost and work associated with required station mendment to the Cooperative Agreement. The 1st amendment was

MMRP REPORTING TABLE				
PROJECT NAME AND CASE NO.	Central Subway	Project		
EPM CONTACT NAME AND PHONE NO.	Lewis Ames (415)	0 701-4226		
EPM SIGNATURE AND DATE				
SUBMITTAL DATE	<u>09/28/12</u>			
Monitoring and Reporting Action (from MM	RP Table)	Reporting Mechanism	Completed? (Y/N/O)	
CONSTRUCTION – TRAFFIC (CNTRF)				
IM CNTRF-1a: SFMTA has identified potential Prior to final design, the SFMTA would select the detour routes and develop temporary transportation management measures along these routes, e.g., and lanes at key intersections, conversion of parking	ne most appropriate ion system additions of turn lanes into peak	Check Final Engineering documents for compliance. Monitor construction.	0	This applies to all of the Construction Contracts For the Utilities Relocation #2 Contract - Closed Alternate routes for non-transit traffic are provided in Relevant Drawings: TR-009 and TR010 Relevant Technical Specs: 01 55 26 Traffic Regulation
period travel lanes, etc. Detour routes would be construction in the appropriate media. When det implemented, traffic control police would monitu along the detours to promote uncongested traffic detour measures would be implemented in coord	tours are initially or critical locations flow. All traffic			For the Tunnels Contract - Closed Alternate routes for non-transit traffic are provided in Relevant Drawings: TR-022, 023, 024 and 025 Relevant Technical Specs: 01 55 26 Traffic Control
concurrent construction projects.				For the Union Square/Market St Station Contract Traffic detours are included in the drawings. The approval that shows the detours. The SFMTA Central Subway Outreach Team will The Central Subway retained two Traffic Control Relevant Drawings: TR-022 through TR-023 Relevant Technical Specs: 01 55 26 Traffic Regula
				For the Chinatown Station Contract Traffic detours are included in the drawings. The approval that shows the detours. The SFMTA Central Subway Outreach Team will The Central Subway retained two Traffic Control Relevant Drawings: TR-004 Relevant Technical Specs: 01 55 26 Traffic Regula
				For the Moscone Station Contract Traffic detours are included in the drawings. The approval that shows the detours. The SFMTA Central Subway Outreach Team will The Central Subway retained two Traffic Control Relevant Drawings: TR-013 through TR-015 Relevant Technical Specs: 01 55 26 Traffic Regulation
				For the Systems/Trackwork Contract Traffic detours are included in the drawings. The cor that shows the detours. The SFMTA Central Subway Outreach Team will ad The Central Subway retained two Traffic Control Off Relevant Drawings: TR-013 through TR-020 Relevant Technical Specs: 01 55 26 Traffic Regulation

Comments/Notes

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e contractor is required to submit a Traffic Control Plan (TCP) for

advertise these detours in the media prior to construction. Officers to monitor detours and promote uncongested traffic flow.

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e contractor is required to submit a Traffic Control Plan (TCP) for

advertise these detours in the media prior to construction. Officers to monitor detours and promote uncongested traffic flow.

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advertise these detours in the media prior to construction. Officers to monitor detours and promote uncongested traffic flow.

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ntractor is required to submit a Traffic Control Plan (TCP) for approval

lvertise these detours in the media prior to construction. ficers to monitor detours and promote uncongested traffic flow.

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MMRP REPORTING TABLE				
PROJECT NAME AND CASE NO.	<u>Central Subway I</u>	Project		
EPM CONTACT NAME AND PHONE NO.	Lewis Ames (415)	701-4226		
EPM SIGNATURE AND DATE				
SUBMITTAL DATE	09/28/12			
Monitoring and Reporting Action (from MMI	RP Table)	Reporting Mechanism	Completed? (Y/N/O)	
CONSTRUCTION - FREIGHT AND LOADI	NG (CNFRT)			
IM CNFRT-1a: To alleviate some of the congest result adjacent to construction of the light rail lin identified potential traffic detours.	stion that would	Check Final Engineering documents for compliance. Monitor construction.		This applies to all of the Construction Contracts For the Utilities Relocation #2 Contract - Final Desig Detour routes for transit and non-transit traffic are pro- Relevant Drawings: TR-009 and TR010 Relevant Technical Specs: 01 55 26 Traffic Regulation For the Tunnels Contract - Final Design Mitigation T Detour routes for transit and non-transit traffic are pro- Relevant Drawings: TR-022,023,024 AND 025 Relevant Technical Specs: 01 55 26 Traffic Control For the Union Square/Market St Station Contract - Fi Traffic detours are included in the drawings. The cor- that shows the detours. Relevant Drawings: TR-022 through TR-023 Relevant Technical Specs: 01 55 26 Traffic Regulation For the Chinatown Station Contract - Final Design M Traffic detours are included in the drawings. The cor- that shows the detours. Relevant Drawings: TR-004 Relevant Drawings: TR-004 Relevant Technical Specs: 01 55 26 Traffic Regulation For the Moscone Station Contract - Final Design Miti Traffic detours are included in the drawings. The cor- that shows the detours. Relevant Technical Specs: 01 55 26 Traffic Regulation For the Moscone Station Contract - Final Design Miti Traffic detours are included in the drawings. The cor- that shows the detours. Relevant Technical Specs: 01 55 26 Traffic Regulation For the Moscone Station Contract - Final Design Miti Traffic detours are included in the drawings. The cor- that shows the detours. Relevant Technical Specs: 01 55 26 Traffic Regulation For the Systems/Trackwork Contract - Final Design Miti Traffic detours are included in the drawings. The cor- that shows the detours. Relevant Technical Specs: 01 55 26 Traffic Regulation For the Systems/Trackwork Contract - Final Design Miti Traffic detours are included in the drawings. The cor- that shows the detours. Relevant Drawings: TR-013 through TR-020 Relevant Technical Specs: 01 55 26 Traffic Regulation

Comments/Notes

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inal Design Mitigation Task Closed ntractor is required to submit a Traffic Control Plan (TCP) for approval

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Mitigation Task Closed ntractor is required to submit a Traffic Control Plan (TCP) for approval

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MMRP REPORTING TABLE				
PROJECT NAME AND CASE NO.	Central Subway	Project		
EPM CONTACT NAME AND PHONE NO.	Lowis Amos (115)	701 4006		
EPM CONTACT NAME AND PHONE NO.	Lewis Ames (415)) /01-4226		
EPM SIGNATURE AND DATE				
SUBMITTAL DATE	<u>09/28/12</u>			
Monitoring and Reporting Action (from MM	RP Table)	Reporting Mechanism	Completed?	
			(Y/N/O)	
MM CNFRT-1b: A portion of the curb parking	lanes remaining	Check Final Engineering documents for compliance.	0	This applies to all of the Construction Contracts
open in the construction area, or just upstream of	r downstream of	Monitor construction.		
the construction area, may be converted to short				For the Utilities Relocation #2 Contract
zones to enable truck loading and unloading and to nearby businesses.	a delivery of goods			SFMTA-SSD (Traffic Engineer) will coordinate with downstream of the construction zone. SFMTA will in
				Relevant Drawings: N/A
				Relevant Technical Specs: 01 55 26 Traffic Regulation
				For the Tunnels Contract
				SFMTA-SSD (Traffic Engineer) will coordinate with
				downstream of the construction zone. SFMTA will in
				Relevant Drawings: N/A
				Relevant Technical Specs: 01 55 26 Traffic Control
				For the Union Square/Market St Station Contract
				Specifications require the contractor to coordinate free
				short-term loading zones.
				Relevant Drawings: N/A Relevant Technical Specs: 01 55 26 Traffic Regulation
				Relevant Feelinieur Spees. 61 55 26 Hume Regulati
				For the Chinatown Station Contract
				Specifications require the contractor to coordinate
				develop short-term loading zones. Relevant Drawings: N/A
				Relevant Technical Specs: 01 55 26 Traffic Regula
				For the Moscone Station Contract Specifications require the contractor to coordinate
				develop short-term loading zones.
				Relevant Drawings: N/A
				Relevant Technical Specs: 01 55 26 Traffic Regula
				For the Systems/Trackwork Contract
				Specifications require the contractor to coordinate
				develop short-term loading zones.
				Relevant Drawings: N/A
				Relevant Technical Specs: 01 55 26 Traffic Regula
		1		

Comments/Notes

h the Contractor regarding the use of existing parking spaces upstream and mplement the time limits of these zones during construction.

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h the Contractor regarding the use of existing parking spaces upstream and mplement the time limits of these zones during construction.

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MMRP REPORTING TABLE				
PROJECT NAME AND CASE NO.	<u>Central Subway</u>	<u>Project</u>		
EPM CONTACT NAME AND PHONE NO.	Lewis Ames (415)	701-4226		
EPM SIGNATURE AND DATE				
ET M SIGNATURE AND DATE	·····			
SUBMITTAL DATE	09/28/12			
Monitoring and Reporting Action (from MMI	RP Table)	Reporting Mechanism	Completed?	
			(Y/N/O)	
MM CNFRT-1c: Temporary truck loading zone		Check Final Engineering documents for compliance.	0	This applies to all of the Construction Contracts - No
streets may need to be established for the duratio construction to offset any impacts along the street affected by construction.		Monitor construction.		For the Utilities Relocation #2 Contract SFMTA-SSD will evaluate the needs during construct submittals by the Contractor. Relevant Drawings: SFMTA-SSD will implement the SFMTA-SSD will establish the temporary truck loadi the traffic control plan. Relevant Technical Specs: 01 55 26 Traffic Control
				For the Tunnels Contract SFMTA-SSD will evaluate the needs during construct submittals by the Contractor. Relevant Drawings: SFMTA-SSD will implement the SFMTA-SSD will establish the temporary truck loadi the traffic control plan Relevant Technical Specs: 01 55 26 Traffic Control v temporary truck loading locations for approval.
				For the Union Square/Market St Station Contract SFMTA-SSD will evaluate the needs during construct submittals by the Contractor. Relevant Drawings: SFMTA-SSD will implement the SFMTA-SSD will establish the temporary truck loadi the traffic control plan Relevant Technical Specs: Traffic Regulations Specifi truck loading locations for approval.
				For the Chinatown Station Contract SFMTA-SSD will evaluate the needs during construct submittals by the Contractor. Relevant Drawings: SFMTA-SSD will implement the SFMTA-SSD will establish the temporary truck loadi Relevant Technical Specs: Traffic Regulations Specifi truck loading locations for approval.
				For the Moscone Station Contract SFMTA-SSD will evaluate the needs during construct submittals by the Contractor. Relevant Drawings: SFMTA-SSD will implement the SFMTA-SSD will establish the temporary truck loadi the traffic control plan Relevant Technical Specs: Traffic Regulations Specific truck loading locations for approval.

Comments/Notes

changes since last update.

ction and will be included on the review process of Traffic Control Plan

e temporary truck loading during construction based on actual needs. ing on the side streets. Will be included in the drawings submitted with

ction and will be included on the review process of Traffic Control Plan

e temporary truck loading during construction based on actual needs. ing on the side streets. Will be included in the drawings submitted with

will be modified to require the Contractor to identify and submit the

ction and will be included on the review process of Traffic Control Plan

e temporary truck loading during construction based on actual needs. ing on the side streets. Will be included in the drawings submitted with

fications requires the Contractor to identify and submit the temporary

ction and will be included on the review process of Traffic Control Plan

e temporary truck loading during construction based on actual needs. ing on the side streets.

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e temporary truck loading during construction based on actual needs. ing on the side streets. Will be included in the drawings submitted with

fications requires the Contractor to identify and submit the temporary

MMRP REPORTING TABLE				
PROJECT NAME AND CASE NO.	Central Subway	<u>Project</u>		
EPM CONTACT NAME AND PHONE NO.	Lewis Ames (415)	701-4226		
EPM SIGNATURE AND DATE				
SUBMITTAL DATE	<u>09/28/12</u>			
Monitoring and Reporting Action (from MM)	RP Table)	Reporting Mechanism	Completed?	
			(Y/N/O)	
MM CNFRT-1c: Temporary truck loading zone streets may need to be established for the duration construction to offset any impacts along the streed affected by construction (continued from prev	on of the Project ets that are directly	Check Final Engineering documents for compliance. Monitor construction (continued from previous page)	0	For the Systems/Trackwork Contract SFMTA-SSD will evaluate the needs during constru- submittals by the Contractor. Relevant Drawings: SFMTA-SSD will implement the SFMTA-SSD will establish the temporary truck load Relevant Technical Specs: Traffic Regulations Spec- truck loading locations for approval.
MM CNFRT-2a: SFDPT will work with the probusiness owners on Perry and Stillman Streets to temporary detour routes for traffic to maintain produring construction and reduce the impacts to a lisignificant level.	o develop roperty access	Check Final Engineering documents for compliance. Monitor construction.	0	This applies to the Tunnels and to the Systems/Trac For the Tunnels Contract - Closed Specifications requires all lanes of Stillman St to ren Relevant Drawings: TR-020,021,025,026 Relevant Technical Specs: Spec 01 55 26 Article 3.0 Requirements For the Systems/Trackwork Contract The contractor is required to submit a Traffic Co Implementation will be coordinated with propert Relevant Drawings: N/A Relevant Technical Specs: 01 55 26 Traffic Regulat

Comments/Notes

uction and will be included on the review process of Traffic Control Plan

the temporary truck loading during construction based on actual needs. ding on the side streets.

ifications requires the Contractor to identify and submit the temporary

kwork Construction Contracts

main open at all times. See MM TRF-2a.

01 Vehicular and Pedestrian Traffic Table 2 Tabulation of Traffic Lane

ontrol Plan (TCP) for approval that shows the detours. ty owners, City staff (Public Affairs Office) and the Contractor.

ions

MMRP REPORTING TABLE				
PROJECT NAME AND CASE NO.	Central Subway	Project		
EPM CONTACT NAME AND PHONE NO.	Lewis Ames (415	<u>) 701-4226</u>		
EPM SIGNATURE AND DATE				
SUBMITTAL DATE	09/28/12			
Monitoring and Reporting Action (from MM	(RP Table)	Reporting Mechanism	Completed?	
		F B	(Y/N/O)	
CONSTRUCTION – PARKING (CNPRK)				
IM CNPRK-1a: During construction signs deno parking areas (e.g., public parking garages) coul		Check Final Engineering documents for compliance. Monitor construction.	0	This applies to all of the Construction Contracts
upstream of and through the construction zones.		Monitor construction.		For the Utilities Relocation #2 Contract - Closed
				Changeable Message signs provided to allow for var
				Relevant Drawings: TR-009 and TR010 Relevant Technical Specs: 01 55 26 Traffic Regulation
				For the Tunnels Contract - Closed
				Changeable Message Signs provided to allow for var
				Relevant Drawings: TR-022,023,024 AND 025 Relevant Technical Specs: 01 55 26 Traffic Control
				Relevant reclinical spees. 01 55 20 frame control
				For the Union Square/Market St Station Contract The contractor is required to submit a Traffic Contro
				parking areas.
				Relevant Drawings: N/A
				Relevant Technical Specs: 01 55 26 Traffic Regulation
				For the Chinatown Station Contract
				The contractor is required to submit a Traffic Control to parking areas.
				Relevant Drawings: N/A
				Relevant Technical Specs: 01 55 26 Traffic Regula See Para. 1.03 Submittals A. Traffic Control Plan
				See Para. 1.05 Submittais A. Traine Control Plan
				For the Moscone Station Contract The contractor is required to submit a Traffic Co
				to parking areas.
				Relevant Drawings: N/A
				Relevant Technical Specs: 01 55 26 Traffic Regula See Para. 1.03 Submittals A.1 Traffic Control Pla
				Message Signs (CMS)", and Para. 3.13 Diverting
				For the Systems/Trackwork Contract
				The contractor is required to submit a Traffic Co
				to parking areas. Relevant Drawings: N/A
				Relevant Technical Specs: 01 55 26 Traffic Regula

Comments/Notes

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riable messaging.

l Plan (TCP) for approval that includes signage denoting access to

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ntrol Plan (TCP) for approval that includes signage denoting access

ations - IFB December 14, 2011: ns, and Para. 3.13 Diverting of Vehicular Traffic. (updated: 09/17/12)

ontrol Plan (TCP) for approval that includes signage denoting access

ations - IFB February 15, 2012: nns in addition to A.1.d. 12) "Location of detour signs and Changeable of Vehicular Traffic. (Updated: 09/17/12)

ontrol Plan (TCP) for approval that includes signage denoting access

ations

MMRP REPORTING TABLE				
PROJECT NAME AND CASE NO.	<u>Central Subway</u>	<u>Project</u>		
EPM CONTACT NAME AND PHONE NO.	Lewis Ames (415) 701-4226		
EPM SIGNATURE AND DATE				
SUBMITTAL DATE	09/28/12			
				ſ
Monitoring and Reporting Action (from MM	IRP Table)	Reporting Mechanism	Completed? (Y/N/O)	
IM CNPRK-1b: To improve the accessibility to	o husinesses in the	Check Final Engineering documents for compliance.	(1/N/O) Y	This applies to all of the Construction Contracts - No
Corridor, it is recommended that retained and ad		Monitor construction.	1	This applies to an of the construction contracts - No
applicable) parking spaces be designated for sho	ort-term parking			For the Utilities Relocation #2 Contract - Closed
and loading, especially in commercial districts.				SFMTA-SSD will evaluate the needs during construct submittals by the Contractor.
				Relevant Drawings: N/A
				Relevant Technical Specs: N/A
				For the Tunnels Contract - Closed
				SFMTA-SSD will evaluate the needs during construct
				submittals by the Contractor. Relevant Drawings: N/A
				Relevant Technical Specs: N/A
				For the Union Square/Market St Station Contract - C SFMTA-SSD will evaluate the needs during construct
				submittals by the Contractor.
				Relevant Drawings: N/A
				Relevant Technical Specs: N/A
				For the Chinatown Station Contract - Closed
				SFMTA-SSD will evaluate the needs during construct submittals by the Contractor.
				Relevant Drawings: N/A
				Relevant Technical Specs: N/A
				For the Moscone Station Contract - Closed
				SFMTA-SSD will evaluate the needs during construct
				submittals by the Contractor. Relevant Drawings: N/A
				Relevant Technical Specs: N/A
				For the Systems/Trackwork Contract - Closed SFMTA-SSD will evaluate the needs during construct
				submittals by the Contractor.
				Relevant Drawings: N/A
				Relevant Technical Specs: N/A

Comments/Notes

change since last update

action and will be included on the review process of Traffic Control Plan

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MMRP REPORTING TABLE				
PROJECT NAME AND CASE NO.	Central Subway	Project		
EPM CONTACT NAME AND PHONE NO.	Lewis Ames (415)) 701-4226		
EPM SIGNATURE AND DATE				
SUBMITTAL DATE	<u>09/28/12</u>			
Monitoring and Reporting Action (from MM	RP Table)	Reporting Mechanism	Completed? (Y/N/O)	
CONSTRUCTION - PEDESTRIANS (CNPE	ED)	ł		1
IM CNPED-1a: During excavation of the subw to all abutting businesses would be maintained e existing or a reduced sidewalk area or via tempo e.g., ramps, planking, etc. Signs would be instal the businesses are "open during construction." A access ways would be in compliance with the Al- pedestrian walkways, as required by the City, w help protect pedestrians from noise, dust, and via during construction.	ay stations, access either through the prary access ways, lled indicated that All temporary DA. Temporary ould be covered to	Check Final Engineering documents for compliance. Monitor construction.		 This applies to the Union Square/Market St Subway S Station Construction Contracts For the Union Square/Market St Station Contract - Fi ADA Compliant Covered Pedestrian Access with sign Relevant Drawings: ES-085 Relevant Technical Specs: 01 55 26 Traffic Regulatic Special Provision SP-27, Custom Barricades For the Chinatown Station Contract - Final Design M ADA Compliant Covered Pedestrian Access with sign Relevant Technical Specs: 01 55 26 Traffic Regulation Special Provision SP-27, Custom Barricades For the Chinatown Station Contract - Final Design M ADA Compliant Covered Pedestrian Access with sign Relevant Technical Specs: 01 55 26 Traffic Regulation Special Provision SP-27, Custom Barricades For the Moscone Station Contract - Final Design M ADA Compliant Covered Pedestrian Access with set Relevant Drawings: TR-002, TR-008, TR- 010 and (IFB - Feb. 15, 2012) CV-011 Civil Drawing indicates the demolition wor Relevant Technical Specs: 01 55 26 Traffic Regulations, 1.03A.1.d and 3.01.A 01 56 10 Temporary Site Construction, 1.10 Barrie 01 57 19 Environmental Mitigation Measures, 1.04 Dust Control Plan, 1.08 Noise Controls

Comments/Notes

Station, to the Chinatown Subway Station, and to the Moscone Subway

inal Design Mitigation Task Closed mage will be maintained when applicable

ons, 1.03A and 3.01A

fitigation Task Closed mage will be maintained at all times.

ons, 1.01F and 3.01A

Mitigation Task Closed signage will be maintained when applicable 1 TR-012 TR-023

ork at the 76 Gas Station site.

icades & Accessible Path of Travel; 1.11 Fencing (IFB - Feb. 15, 2012) 4 Maintenance Of The Work Area And Debris Control; 1.07 Specific

MMRP REPORTING TABLE				
PROJECT NAME AND CASE NO.	Central Subway	<u>Project</u>		
EPM CONTACT NAME AND PHONE NO	. <u>Lewis Ames (415</u>	<u>) 701-4226</u>		
EPM SIGNATURE AND DATE				
SUBMITTAL DATE	09/28/12			
Monitoring and Reporting Action (from MM	ARP Table)	Reporting Mechanism	Completed? (Y/N/O)	
CONSTRUCTION – BICYCLES (CNBIC)			(
IM CNBIC-1a: Retain a wide curb or outside facilitate bicycle travel. Where this is not poss be erected indicating temporary alternative rou Fifth Streets for bicyclists.	ible, signage could	Check Final Engineering documents for compliance. Monitor bicycle use on 2nd and 5th Streets construction.	0	This applies to the Tunnels, to the Union Square/Market Subway Station, and to the Systems/Trackwork Constru For the Tunnels Contract - Final Design Mitigation Task Specification requires Contractor to perform the appropri- there is construction. Specifications direct Contractor to Use of Full Lane" signs, or other approved equal, on stre Relevant Drawings: N/A Relevant Technical Specs: 01 55 26 Traffic Control
				For the Union Square/Market St Station Contract - Final Specifications require the Contractor perform appropriat is construction. The 2nd Street bicycle lane implement Pavement Renovation Project. This project is currently implementation will be late 2013. The implementation (#30 &45) re-route. Relevant Drawings: N/A Relevant Technical Specs: 01 55 26 Traffic Regulations
				For the Chinatown Station Contract - Final Design Mitig Specifications require the Contractor perform appropriat is construction. The 2nd Street bicycle lane implement Pavement Renovation Project. This project is currently implementation will be late 2013. The implementation (#30 &45) re-route. Relevant Drawings: N/A Relevant Technical Specs: 01 55 26 Traffic Regulations
				For the Moscone Station Contract Specifications require the Contractor perform appropriat is construction. The 2nd Street bicycle lane implement Pavement Renovation Project. This project is currently implementation will be late 2013. The implementation of (#30 &45) re-route. Relevant Drawings: N/A Relevant Technical Specs: 01 55 26 Traffic Regulations
				For the Systems/Trackwork Contract Specifications require the Contractor perform appropriat is construction. The 2nd Street bicycle lane implement Pavement Renovation Project. This project is currently implementation will be late 2013. The implementation (#30 &45) re-route. Relevant Drawings: N/A Relevant Technical Specs: 01 55 26 Traffic Regulations

Comments/Notes

t St Subway Station, to the Chinatown Subway Station, to the Moscone ction Contracts

k Closed - No change since last update.

riate measures to ensure the safety of bicyclists on ALL streets on which Section 10: Bicycle Routes of the Blue Book. Install "Bicyclists Allowed eets with bicycle lanes during construction.

Design Mitigation Task Closed

te measures to ensure the safety of bicyclists on ALL streets on which there ation is to be incorporated into a San Francisco Department of Public Works y going through the planning process within the SFMTA and its anticipated of bicycle lanes on 5th Street is on-hold; in conflict with future Muni line

gation Task Closed

te measures to ensure the safety of bicyclists on ALL streets on which there tation is to be incorporated into a San Francisco Department of Public Works y going through the planning process within the SFMTA and its anticipated of bicycle lanes on 5th Street is on-hold; in conflict with future Muni line

te measures to ensure the safety of bicyclists on ALL streets on which there ation is to be incorporated into a San Francisco Department of Public Works y going through the planning process within the SFMTA and its anticipated of bicycle lanes on 5th Street is on-hold; in conflict with future Muni line

te measures to ensure the safety of bicyclists on ALL streets on which there ation is to be incorporated into a San Francisco Department of Public Works y going through the planning process within the SFMTA and its anticipated of bicycle lanes on 5th Street is on-hold; in conflict with future Muni line

MMRP REPORTING TABLE				
PROJECT NAME AND CASE NO.	Central Subway	Project		
EPM CONTACT NAME AND PHONE NO.	Lewis Ames (415)	<u>) 701-4226</u>		
EPM SIGNATURE AND DATE				
SUBMITTAL DATE	09/28/12			
Monitoring and Reporting Action (from MMI	RP Table)	Reporting Mechanism	Completed?	
			(Y/N/O)	
IM CNBIC-1b: Implementation of the new bicy Second and Fifth Streets would facilitate bicycle		Check Final Engineering documents for compliance. Monitor bicycle use on 2nd and 5th Streets construction.		This applies to the Union Square/Market St Subway Construction Contracts - No change since last upda
streets.				For the Union Square/Market St Station Contract The 2nd Street bicycle lane implementation is to be Renovation Project. This project is currently going implementation will be late 2013. The implementa line (#30 &45) re-route. Relevant Drawings: N/A Relevant Technical Specs: N/A For the Moscone Station Contract The 2nd Street bicycle lane implementation is to be Renovation Project. This project is currently going implementation will be late 2013. The implementa line (#30 &45) re-route. Relevant Drawings: N/A Relevant Technical Specs: N/A For the Systems/Trackwork Contract The 2nd Street bicycle lane implementation is to be Renovation Project. This project is currently going implementation will be late 2013. The implementa line (#30 &45) re-route. Relevant Technical Specs: N/A For the Systems/Trackwork Contract The 2nd Street bicycle lane implementation is to be Renovation Project. This project is currently going implementation will be late 2013. The implementa line (#30 &45) re-route. Relevant Drawings: N/A Relevant Technical Specs: N/A
CONSTRUCTION - EMERGENCY VEHICI	LE ACCESS (CNE	I NE)		
IM CNEMER-1a: Emergency response times fr		Check Final Engineering documents for compliance.	0	This applies to the Chinatown Subway Station and t
#8 (36 Bluxome Street) would be impacted by co Fourth Street for approximately 18 to 24 months Station #2 (1340 Powell Street) by temporary lan west side of Stockton Street between Washington Streets for the construction of the Chinatown Sta develop and implement alternative detour routes traffic to minimize the construction disruption to	onstruction along and from Fire nes closures on the n and Jackson tion. DPT will for all general	Monitor emergency access during construction.		update. For the Chinatown Station Contract Traffic detours are included in the drawings. The co that shows the detours. Relevant Drawings: TR-004 Relevant Technical Specs:01 55 26 Traffic Regulati
				For the Systems/Trackwork Contract Traffic detours are included in the drawings. The co that shows the detours. Relevant Drawings: TR-013 through TR-020 Relevant Technical Specs: 01 55 26 Traffic Regulat

Comments/Notes

y Station, to the Moscone Subway Station, and to the Systems/Trackwork ate.

e incorporated into a San Francisco Department of Public Works Pavement g through the planning process within the SFMTA and its anticipated ation of bicycle lanes on 5th Street is on-hold; in conflict with future Muni

e incorporated into a San Francisco Department of Public Works Pavement g through the planning process within the SFMTA and its anticipated ation of bicycle lanes on 5th Street is on-hold; in conflict with future Muni

e incorporated into a San Francisco Department of Public Works Pavement g through the planning process within the SFMTA and its anticipated ation of bicycle lanes on 5th Street is on-hold; in conflict with future Muni

to the Systems/Trackwork Construction Contracts - No change since last

contractor is required to submit a Traffic Control Plan (TCP) for approval

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contractor is required to submit a Traffic Control Plan (TCP) for approval

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Page 22 of 50

MMRP REPORTING TABLE				
PROJECT NAME AND CASE NO.	Central Subway	<u>Project</u>		
EPM CONTACT NAME AND PHONE NO.	Lewis Ames (415)) 701-4226		
EPM SIGNATURE AND DATE				
SUBMITTAL DATE	<u>09/28/12</u>			
Monitoring and Reporting Action (from MM	RP Table)	Reporting Mechanism	Completed? (Y/N/O)	
IM CNEMER-1b: Emergency response times f #8 (36 Bluxome Street) would be impacted by c Fourth Street for approximately 18 to 24 months Station #2 (1340 Powell Street) by temporary la west side of Stockton Street between Washingto Streets for the construction of the Chinatown Sta will be required to develop a site specific emergy response plan as part of compliance with bid spe	onstruction along and from Fire nes closures on the on and Jackson ation. Contractor ency access	Check Final Engineering documents for compliance. Monitor emergency access during construction.		This applies to the Tunnels, to the Chinatown Subway Construction Contracts For the Tunnels Contract - Final Design Mitigation Ta No work shall interfere with the access of emergency Relevant Technical Specs: 01 55 26 Traffic Control, 3 For the Chinatown Station Contract - Final Design M No work shall interfere with the access of emergency will be required, as part of the Traffic Control Plan to lane closures occur. Emergency vehicles shall be give Relevant Drawings: N/A Relevant Technical Specs:01 55 26 Traffic Regulation For the Moscone Station Contract - Final Design Miti No work shall interfere with the access of emergen contractor is required to notify the Fire Departme be given priority over all other vehicles at all times in the Contractor submittal, Site Specific Emergen Relevant Technical Specs: 01 55 26 Traffic Regula Response Plan; 3.01, Table 2, 2nd footnote and, N 3.19 Site Specific Emergency Access Response Plan For the Systems/Trackwork Contract - Final Desig No work shall interfere with the access of emergen contractor is required to notify the Fire Departme be given priority over all other vehicles at all times in the Contractor submittal, Site Specific Emergen Relevant Technical Specs: 01 55 26 Traffic Regula Response Plan; 3.01, Table 2, 2nd footnote and, N 3.19 Site Specific Emergency Access Response Plan For the Systems/Trackwork Contract - Final Desig No work shall interfere with the access of emergen contractor is required to notify the Fire Departme be given priority over all other vehicles at all times Relevant Technical Specs: Assume same reference Specific Emergency Access Response Plan; 3.19 Si

Comments/Notes

y Station, to the Moscone Subway Station, and to the Systems/Trackwork

Task Closed

vehicles including those of Police and Fire Departments.

3.01

litigation Task Closed

vehicles including those of Police and Fire Departments. The contractor be submitted for approval, to notify the Fire Department when traffic ven priority over all other vehicles at all times

ons, 3.01

igation Task Closed

ncy vehicles including those of Police and Fire Departments. The ent when traffic lane closures occur and that emergency vehicles shall s. Emergency responses time from Fire Station #8 shall be addressed ncy Access Response Plan.

ations, 1.03, Submittals, Section A.1.e, Site Specific Emergency Access Notes, 4th bullet and; 3.02, Traffic Control and Construction Phasing; In

gn Mitigation Task Closed

ncy vehicles including those of Police and Fire Departments. The ent when traffic lane closures occur and that emergency vehicles shall s

es as MOS: 01 55 26 Traffic Regulations, 103, Submittals, Site ite Specific Emergency Access Response Plan

MMRP REPORTING TABLE				
PROJECT NAME AND CASE NO.	<u>Central Subway</u>	<u>Project</u>		
EPM CONTACT NAME AND PHONE NO.	Lewis Ames (415)	<u>) 701-4226</u>		
EPM SIGNATURE AND DATE				
SUBMITTAL DATE	09/28/12			
Monitoring and Reporting Action (from MMI	RP Table)	Reporting Mechanism	Completed?	
			(Y/N/O)	
CONSTRUCTION - LAND USE (CNLND)	. 1 1'		*7	
IM CNLND-1a: Public information programs, in as well as steps to ensure uninterrupted access to Corridor, shall be used to minimize the construct neighboring land uses.	all uses along the	Check Final Engineering documents for compliance. Monitor parking in study area during construction.	Y	This applies to all of the Construction Contracts For the Tunnels Contract - Final Design Mitigation T Access, including signage, shall be required at all tim Relevant Technical Specs: 01 55 26 Traffic Control For the Union Square/Market St Station Contract - Fi Access, including signage, shall be required at all tim Relevant Drawings: N/A Relevant Technical Specs: 01 55 26 Traffic Regulatio For the Chinatown Station Contract - Final Design M Access, including signage, shall be required at all tim Relevant Drawings: N/A Relevant Technical Specs: 01 55 26 Traffic Regulatio For the Moscone Station Contract - Final Design Mit Access, including signage, shall be required at all tim Relevant Technical Specs: 01 55 26 Traffic Regulatio For the Moscone Station Contract - Final Design Mit Access, including signage, shall be required at all tim Relevant Drawings: N/A Relevant Technical Specs: 01 55 26 Traffic Regulatio For the Systems/Trackwork Contract - Final Design Requirement will be incorporated in Division 1 of Relevant Technical Specs: 01 55 26 Traffic Regulatio Art. 3.01.A; Table 2 (Notes 7th Bullet for Changea

Comments/Notes

Task Closed nes.

inal Design Mitigation Task Closed nes.

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MMRP REPORTING TABLE				
PROJECT NAME AND CASE NO.	Central Subway	Project		
EPM CONTACT NAME AND PHONE NO.	Lewis Ames (415	<u>) 701-4226</u>		
EPM SIGNATURE AND DATE				
SUBMITTAL DATE	<u>09/28/12</u>			
Monitoring and Reporting Action (from MM	RP Table)	Reporting Mechanism	Completed?	
			(Y/N/O)	
CONSTRUCTION - COMMUNITY FACILI			X	
IM CNCF-1a: Pedestrian access would be main community facilities, parks, and recreation areas		Check Final Engineering documents for compliance. Monitor construction.	Y	This applies to all of the Construction Contracts - No
community facilities, parks, and recreation areas construction.	s during	Monitor construction.		For the Utilities Relocation #2 Contract - Final Desig Access to Union Square is maintained throughout durare provided in Traffic Control specification. Relevant Drawings: None Relevant Technical Specs: 01 55 26 Traffic Regulation For the Tunnels Contract - Final Design Mitigation T Access to Washington Square is maintained throughor maintaining pedestrian access are provided in Traffic Relevant Drawings: N/A Relevant Technical Specs: 01 55 26 Traffic Control A For the Union Square/Market St Station Contract - Fi Pedestrian Access will be maintained at all times. Relevant Technical Specs: 01 55 26 Traffic Regulation For the Chinatown Station Contract - Final Design M Pedestrian Access will be maintained at all times. Relevant Drawings: N/A Relevant Technical Specs: 01 55 26 Traffic Regulation For the Chinatown Station Contract - Final Design M Pedestrian Access will be maintained at all times. Relevant Technical Specs: 01 55 26 Traffic Regulation For the Chinatown Station Contract - Final Design M Pedestrian Access will be maintained at all times. Relevant Technical Specs: 01 55 26 Traffic Regulation For the Moscone Station Contract - Final Design Mit Pedestrian Access will be maintained at all times.
				Relevant Drawings: N/A Relevant Technical Specs: 01 55 26 Traffic Regulation
				For the Systems/Trackwork Contract - Final Design I Pedestrian Access will be maintained at all times. Relevant Drawings: TBD Relevant Technical Specs: 01 55 26 Traffic Regulation

Comments/Notes

o change since last update.

gn Mitigation Task Closed Iration of construction. Requirements for maintaining pedestrian access

ons

Fask Closedout duration of construction of Retrieval Shaft. Requirements forc Control specification.

Article 3.01 Vehicular and Pedestrian Traffic.

Final Design Mitigation Task Closed

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litigation Task Closed

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tigation Task Closed

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Mitigation Task Closed

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MMRP REPORTING TABLE				
IVEVIAL REFORTING TABLE				
PROJECT NAME AND CASE NO.	Central Subway	Project		
EPM CONTACT NAME AND PHONE NO.	-			
EPM SIGNATURE AND DATE				
SUBMITTAL DATE	<u>09/28/12</u>			
Monitoring and Reporting Action (from MMR	RP Table)	Reporting Mechanism	Completed?	
			(Y/N/O)	
IM CNCF-1b: Traffic detours will be put in plac disruption to traffic and public transit along the C		Check Final Engineering documents for compliance. Monitor construction.	Y	This applies to the Utilities Relocation #2, to the Tu For the Utilities Relocation #2 Contract - Final Desi Detour routes for transit and non-transit traffic are p received approval for) alternate detour and lane clos Relevant Drawings: TR-009 and TR010 Relevant Technical Specs: 01 55 26 Traffic Regulat For the Tunnels Contract - Final Design Mitigation / Detour routes for transit and non-transit traffic are p Relevant Drawings: TR-022,023,024 AND 025 Relevant Technical Specs: 01 55 26 Traffic Regulat For the Systems/Trackwork Contract - Final Des This is incorporated into the temporary traffic ro Relevant Drawings: TR-001 through TR-029 Relevant Technical Specs: 01 55 26 Traffic Regula Art. 3.01 A; Table 2 (Note 1), 3.02 & 3.13

Comments/Notes

nnels, and to the Systems/Trackwork Construction Contracts

ign Mitigation Task Closed provided in plans and specifications. Contractor has proposed (and sure plans as allowed by specifications.

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Task Closed provided in plans and specifications.

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esign Mitigation Task Closed outing specifications and plans.

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MMRP REPORTING TABLE				
DDO IECT NAME AND CASE NO	Control Sectores	Dustant		
PROJECT NAME AND CASE NO.	Central Subway	<u>Project</u>		
EPM CONTACT NAME AND PHONE NO.	Lewis Ames (415)	<u>) 701-4226</u>		
EPM SIGNATURE AND DATE				
SUBMITTAL DATE	09/28/12			
Monitoring and Reporting Action (from MM	RP Table)	Reporting Mechanism	Completed?	
from toring and hepot ang reason (from torio	in rusic)	Reporting Prechamon	(Y/N/O)	
IM CNCF-2a: Alternative vehicular and pedest	rian circulation	Check Final Engineering documents for compliance.	0	This applies to all of the Construction Contracts - No
patterns that permit continued access to commun		Monitor construction.		For the Utilities Delegation #2 Contract Final Decis
facilities in these locations during construction v and clearly identified during final design, in con				For the Utilities Relocation #2 Contract - Final Design Traffic control specifications and plans show limits on
Department of Parking and Traffic (DPT) staff.				time) and provide minimum sidewalk and traffic lane
				Relevant Drawings: TR-001 through TR-008 Relevant Technical Specs: 01 55 26 Traffic Regulation
				Relevant Technical Spees. 01 55 20 Traine Regulatio
				For the Tunnels Contract - Final Design Mitigation T
				Traffic control specifications and plans show limits of traffic lane requirements adjacent to active work zone
				Fourth Street.
				Relevant Drawings: TR-001 through TR-021 Relevant Technical Specs: 01 55 26 Traffic Control
				Relevant Technical Spees. 01 55 20 Traine Control
				For the Union Square/Market St Station Contract
				Continued access to community and public facilities h Relevant Drawings: N/A
				Relevant Technical Specs: 01 55 26 Traffic Regulation
				For the Chinatown Station Contract
				Continued access to community and public facilities h
				Relevant Drawings: N/A
				Relevant Technical Specs: 01 55 26 Traffic Regulation
				For the Moscone Station Contract
				Continued access to community and public facilities h Relevant Drawings: N/A
				Relevant Technical Specs: 01 55 26 Traffic Regulation
				For the Sectors / Traches de Contract
				For the Systems/Trackwork Contract Continued access to community and public facilities h
				Relevant Drawings: N/A
				Relevant Technical Specs: 01 55 26 Traffic Regulation

Comments/Notes

o change since last update.

gn Mitigation Task Closed on concurrent construction work along Stockton Street (single block at a e requirements adjacent to active work zones.

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Task Closed on concurrent construction work and provide minimum sidewalk and nes on Columbus Avenue at Retrieval shaft, along Stockton Street and on

have been incorporated into the traffic control specifications.

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have been incorporated into the traffic control specifications.

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have been incorporated into the traffic control specifications.

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have been incorporated into the traffic control specifications.

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MMRP REPORTING TABLE				
PROJECT NAME AND CASE NO.	Central Subway	Project		
EPM CONTACT NAME AND PHONE NO.	Lewis Ames (415)	<u>) 701-4226</u>		
EPM SIGNATURE AND DATE				
SUBMITTAL DATE	09/28/12			
Monitoring and Reporting Action (from MMR		Reporting Mechanism	Completed?	
			(Y/N/O)	
IM CNCF-3a: City noise regulations will be incluse specifications to ensure that construction is in contract of the specification of th	uded in the bid npliance.	Check Final Engineering documents for compliance. Monitor noise levels during construction.	(Y/NO) O	This applies to the Utilities Relocation #2, to the Tur For the Utilities Relocation #2 Contract - Final Desi City noise regulations incorporated into Spec 01 57 Relevant Drawings: N/A Relevant Technical Specs: 01 57 19 Environmental 1 For the Tunnels Contract - Final Design Mitigation 7 City noise regulations incorporated into Spec 01 57 Relevant Drawings: N/A Relevant Technical Specs: 01 57 19 Environmental 1 For the Systems/Trackwork Contract City noise regulations are included in the bid specifi Relevant Drawings: N/A Relevant Technical Specs: 01 57 19 Environment

Comments/Notes

nnels, and to the Systems/Trackwork Construction Contracts

ign Mitigation Task Closed 19 Environmental Mitigation Measures.

Mitigation Measures

Task Closed 19 Environmental Mitigation Measures.

Mitigation Measures

ications.

tal Mitigation Measures. Para. 1.08.A

MMRP REPORTING TABLE				
PROJECT NAME AND CASE NO.	Central Subway	Project		
EPM CONTACT NAME AND PHONE NO.	Lewis Ames (415	701-4226		
EPM SIGNATURE AND DATE				
SUBMITTAL DATE	00/29/12			
	<u>09/28/12</u>	1	1	
Monitoring and Reporting Action (from MM	RP Table)	Reporting Mechanism	Completed?	
			(Y/N/O)	
IM CNCF-4a: Use a traffic control officer, at co facilitate traffic flows if circulation is disrupted.		Monitor construction.	Y	This applies to all of the Construction Contracts - No
				For the Utilities Relocation #2 Contract - Final Desig
				Requirement have been incorporated in Division 1 o
				Relevant Drawings: N/A Relevant Technical Specs: 01 55 26 Traffic Regulati
				For the Tunnels Contract - Final Design Mitigation
				Requirement have been incorporated in Division 1 of for the Central Subway to facilitate traffic flow.
				Relevant Drawings: N/A
				Relevant Technical Specs: 01 55 26 Traffic Control
				For the Union Square/Market St Station Contract - F
				Requirement has been incorporated in Division 1 of
				for the Central Subway to facilitate traffic flow.
				Relevant Drawings: N/A Relevant Technical Specs: 01 55 26 Traffic Regulati
				Relevant reeninear spees. or 55 20 frame Regular
				For the Chinatown Station Contract - Final Design N
				Requirement has been incorporated in Division 1 of for the Central Subway to facilitate traffic flow.
				Relevant Drawings: N/A
				Relevant Technical Specs: 01 55 26 Traffic Regulati
				For the Moscone Station Contract - Final Design Mi
				Requirement has been incorporated in Division 1 of
				for the Central Subway to facilitate traffic flow.
				Relevant Drawings: N/A Relevant Technical Specs: 01 55 26 Traffic Regulati
				Referant reeninear spees. 01 55 20 frame Regulati
				For the Systems/Trackwork Contract - Final Design
				Requirement has been incorporated in Division 1 of Relevant Drawings: N/A
				Relevant Technical Specs: 01 55 26 Traffic Regulati
				1

Comments/Notes

o change since last update.

gn Mitigation Task Closed of Contract Specifications.

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Task Closed of Contract Specifications. Two Traffic Control Officers have been hired

Final Design Mitigation Task Closed Contract Specifications. Two Traffic Control Officers have been hired

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Mitigation Task Closed f Contract Specifications. Two Traffic Control Officers have been hired

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itigation Task Closed Contract Specifications. Two Traffic Control Officers have been hired

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Mitigation Task Closed Contract Specifications.

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MMRP REPORTING TABLE				
PROJECT NAME AND CASE NO.	Central Subway	Project		
EPM CONTACT NAME AND PHONE NO.	Lewis Ames (415)	0 701-4226		
EPM SIGNATURE AND DATE				
SUBMITTAL DATE	<u>09/28/12</u>			
Monitoring and Reporting Action (from MME	RP Table)	Reporting Mechanism	Completed? (Y/N/O)	
CONSTRUCTION - PREHISTORIC AND HI	ISTORICAL ARC	HAEOLOGICAL RESOURCES (CNPRE)	(<u> </u>
MC CNPRE-1a: Consistent with the SHPO MC FTA, and SFMTA shall work with a qualified arc ensure that all state and federal regulations regard resources and Native American concerns are enfo	DA with the City, chaeologist to ding cultural	Check Final Engineering documents for compliance. Monitor construction.		This applies to all of the Construction Contracts - No G For the Utilities Relocation #2 Contract To date, in order to ensure that all state and federal reg enforced, the SFMTA has used the services of the Som Archaeological Research Design and Testing Program Design and Testing Program, an Archeological Monitti (Geo-Probing) has been performed at the Tunnel Porta Street area to search for archeological remains. Relevant Drawings: N/A Relevant Technical Specs: Section 01 11 00 1.11, Disc For the Tunnels Contract To date, in order to ensure that all state and federal reg enforced, the SFMTA has used the services of the Som Archaeological Research Design and Testing Program Design and Testing Program, an Archeological Monitti (Geo-Probing) has been performed at the Tunnel Porta Street area to search for archeological remains. Relevant Drawings: N/A Relevant Technical Specs: Special Provision SP-17, D For the Union Square/Market St Station Contract To date, in order to ensure that all state and federal reg enforced, the SFMTA has used the services of the Som Archaeological Research Design and Testing Program Design and Testing Program, an Archeological remains. Relevant Drawings: N/A Relevant Technical Specs: Special Provision SP-17, D For the Union Square/Market St Station Contract To date, in order to ensure that all state and federal reg enforced, the SFMTA has used the services of the Som Archaeological Drilling (Geo-Probing) will be perform remains. Relevant Technical Specs: Section 01 35 40, Archaeol For the Chinatown Station Contract To date, in order to ensure that all state and federal reg enforced, the SFMTA has used the services of the Som Archaeological Research Design and Testing Program Relevant Technical Specs: Section 01 35 40, Archaeol 1.04 F Archaeologist Services and 1.04 G "monitoring (updated: 09/17/12)

Comments/Notes

change since last update.

egulations regarding cultural resources and Native American concerns are onoma State Archeological Department to develop a site-specific m in the South of Market area, a program-wide Archaeological Research itoring Plan and an Archeological Testing Plan. Archaeological Drilling tal Area and the Station area and is planned for the Union Square/Market

scovery of Archaeological Sites

egulations regarding cultural resources and Native American concerns are onoma State Archeological Department to develop a site-specific m in the South of Market area, a program-wide Archaeological Research atoring Plan and an Archeological Testing Plan. Archaeological Drilling tal Area and the Station area and is planned for the Union Square/Market

Discovery of Archaeological Sites

egulations regarding cultural resources and Native American concerns are onoma State Archeological Department to develop a program-wide m, an Archeological Monitoring Plan and an Archeological Testing Plan. rmed at the Station Area by the Contractor to search for archeological

ological Discoveries

egulations regarding cultural resources and Native American concerns are noma State Archeological Department to develop a program-wide m, an Archeological Monitoring Plan and an Archeological Testing Plan.

ological Discoveries; 1254R IFB - prepared for Advertisement. See Para. ng personnel including Native American Representatives".

MMRP REPORTING TABLE				
PROJECT NAME AND CASE NO.	Central Subway I	Project		
EPM CONTACT NAME AND PHONE NO. L	Lewis Ames (415)	701-4226		
EPM SIGNATURE AND DATE				
SUBMITTAL DATE 0	09/28/12			
				1
Monitoring and Reporting Action (from MMRP	P Table)	Reporting Mechanism	Completed?	
MM CNDDE 1a: Consistent with the SHDO MOA	with the City	Charle Final Engineering documents for compliance	(Y/N/O)	For the Messene Station Contract
MM CNPRE-1a: Consistent with the SHPO MOA FTA, and SFMTA shall work with a qualified archa ensure that all state and federal regulations regardin resources and Native American concerns are enfort from previous page)	aeologist to ng cultural	Check Final Engineering documents for compliance. Monitor construction. (continued from previous page)	0	For the Moscone Station Contract To date, in order to ensure that all state and federal r enforced, the SFMTA has used the services of the Sc Archaeological Research Design and Testing Progra Design and Testing Program, an Archeological Mon (Geo-Probing) will be performed at the Station Area Relevant Drawings: N/A Relevant Technical Specs: Section 01 35 40, Archae Archaeologist Services and 1.04 G "monitoring pers (updated: 09/17/12) For the Systems/Trackwork Contract To date, in order to ensure that all state and federal r enforced, the SFMTA has used the services of the Sc Archaeological Research Design and Testing Progra Relevant Drawings: N/A Relevant Technical Specs: Section 01 35 40, Archae

Comments/Notes

regulations regarding cultural resources and Native American concerns are Sonoma State Archeological Department to develop a site-specific am in the South of Market area, a program-wide Archaeological Research nitoring Plan and an Archeological Testing Plan. Archaeological Drilling a by the Contractor to search for archeological remains.

eological Discoveries; IFB dated February 15, 2012. See Para. 1.04 F sonnel including Native American Representatives".

regulations regarding cultural resources and Native American concerns are Sonoma State Archeological Department to develop a program-wide am, an Archeological Monitoring Plan and an Archeological Testing Plan.

eological Discoveries

r				
MMRP REPORTING TABLE				
PROJECT NAME AND CASE NO.	<u>Central Subwa</u>	vy Project		
EPM CONTACT NAME AND PHONE NO.	Lewis Ames (4	15) 701-4226		
EPM SIGNATURE AND DATE				
SUBMITTAL DATE	09/28/12			
Monitoring and Reporting Action (from MM	RP Table)	Reporting Mechanism	Completed?	
			(Y/N/O)	
MM CNPRE-1b: Limited subsurface testing in archaeologically sensitive areas shall be conducted a		Check Final Engineering documents for compliance. Monitor construction.	0	This applies to all of the Construction Contracts - No ch
alignment has been selected.				For the Utilities Relocation #2 Contract No subsurface testing is being performed for Utility Com
				vaults and therefore no potential archeological sensitive Relevant Drawings: N/A
				Relevant Technical Specs: Section 01 11 00 1.11, Disco
				For the Tunnels Contract
				Archaeological Drilling (Geo-Probing) has been perform Contract) to search for archeological remains. Nothing of
				Relevant Drawings: N/A Relevant Technical Specs: Special Provision SP-17, Dise
				For the Union Square/Market St Station Contract
				Environmental Drilling was performed at the Station
				An archaeologist monitored this drilling for potential Archaeological Drilling (Geo-Probing) was performe
				remains. The Archeologist consultant submitted an UMS Arch
				Relevant Drawings: N/A
				Relevant Technical Specs: Section 01 35 40, Archaeolog
				For the Chinatown Station Contract Due to the inaccessibility of the site and limited sensitivity
				Relevant Drawings: N/A
				Relevant Technical Specs: Section 01 35 40, Archaeological Discoveries; 1254R IF
				Zones. (updated: 09/17/12)
				For the Moscone Station Contract
				Archaeological Drilling (Geo-Probing) has been perform
				Nothing of any significance was found. Also, results from develop the spec for the station contract. Archaeologica
				Contractor to search for archeological remains. Relevant Drawings: N/A
				Relevant Technical Specs: Section 01 12 17 Work Seque
				complete Archaeological Geoprobing as "early activity"
				Section 01 35 40, Archaeological Discoveries; IFB dated (updated: 09/17/12)
				For the Systems/Trackwork Contract
				Due to the limited sensitivity no subsurface testing will b Relevant Drawings: N/A
				Relevant Technical Specs: Section 01 35 40 Archaeolog

Comments/Notes

ange since last update.

ntract 2 as most of the work is being performed in sub-sidewalk basement e areas are anticipated to be disturbed.

overy of Archaeological Sites

med at the Tunnel Portal Area (the only sensitive location for the Tunnel of any significance was found.

scovery of Archaeological Sites

n area in the 2nd Quarter of 2012. Il archaeological discoveries. ed at the Station Area by the Contractor to search for archeological

haeological Testing Report Sept. 24, 2012.

gical Discoveries

vity no subsurface testing will be performed during Final Design.

FB prepared for Advertisement. See Para. 3.03 Archaeological Sensitivity

med at the Station Headhouse Area to search for archeological remains. om archeological discoveries from the first Utility Contract will be used to cal Drilling (Geo-Probing) will be performed at the Station Area by the

ence and Constraints; IFB dated February 15, 2012. See Para. 1.03 D.8. before surface or subsurface construction activities can commence.

d February 15, 2012. See Para. 3.03 Archaeological Sensitivity Zones.

be performed.

gical Discoveries

Page 32 of 50

MMRP REPORTING TABLE				
PROJECT NAME AND CASE NO.	Central Subway	Project		
EPM CONTACT NAME AND PHONE NO.	Lewis Ames (415	0 701-4226		
EPM SIGNATURE AND DATE				
SUBMITTAL DATE	09/28/12			
		Der setter Markenstern	Commission 19	
Monitoring and Reporting Action (from MMI	RP Table)	Reporting Mechanism	Completed? (Y/N/O)	
MM CNPRE-1c: During construction, archaeolo	ogical monitoring	Check Final Engineering documents for compliance.	0	This applies to all of the Construction Contracts - No
shall be conducted in those sections of the alignment the completed HCASR and through pre-construct		Monitor construction.		For the Utilities Relocation #2 Contract
moderately to highly sensitive for prehistoric and				In addition to the contract requirements the SFMTA i
archaeological deposits.				representative during excavation activities.
				Relevant Drawings: NA Relevant Technical Specs: Section 01 11 00 1.11, Dis
				For the Tunnels Contract
				Contractor requirements included in Special Provision
				American representative during excavation activities. Relevant Drawings: N/A
				Relevant Technical Specs: Special Provision SP-17, I
				For the Union Square/Market St Station Contract
				SFMTA will provide an on site archaeological monitor
				Relevant Drawings: N/A Relevant Technical Specs: Section 01 35 40, Archaeo
				-
				For the Chinatown Station Contract SFMTA will provide an on site archaeological monito
				Relevant Drawings: N/A
				Relevant Technical Specs: Section 01 35 40, Archaeo 3.01 Archaeological Investigations, Para. 3.02 Sequer
				3.05 Evaluation and Treatment Decision Process for I
				(updated: 09/17/12)
				For the Moscone Station Contract
				SFMTA will provide an on site archaeological monito Relevant Drawings: N/A
				Relevant Technical Specs: Section 01 35 40, Archaeo
				Archaeological Investigations, Para. 3.02 Sequence of (updated: 09/17/12)
				For the Systems/Trackwork Contract SFMTA will provide an on site archaeological monitor
				Relevant Drawings: N/A
				Relevant Technical Specs: Section 01 35 40, Archaeo

Comments/Notes

change since last update.

is providing an on site archaeological monitor and native American

scovery of Archaeological Sites

ons. SFMTA is providing an on site archaeological monitor and native .

Discovery of Archaeological Sites

or and Native American representative during excavation activities.

ological Discoveries

or and Native American representative during excavation activities.

ological Discoveries; 1254R IFB prepared for Advertisement. See Para. once of Operations, Para. 3.04 Consultation and Coordination, and Para Historical Archaeology.

or and Native American representative during excavation activities.

ological Discoveries; IFB dated February 15, 2012. See Para. 3.01 of Operations & Para. 3.04 Consultation and Coordination

or and Native American representative during excavation activities.

ological Discoveries

MMRP REPORTING TABLE				
PROJECT NAME AND CASE NO.	Central Subway	<u>Project</u>		
EPM CONTACT NAME AND PHONE NO.	Lewis Ames (415) 701_4226		
ETM CONTACT NAME AND THOME NO.	Lewis Antes (415	//01-4220		
EPM SIGNATURE AND DATE				
SUBMITTAL DATE	<u>09/28/12</u>			
Monitoring and Reporting Action (from MM	RP Table)	Reporting Mechanism	Completed?	
			(Y/N/O)	
MM CNPRE-1d: Upon completion of archaeol		Check Final Engineering documents for compliance.	0	This applies to all of the Construction Contracts - No
investigations, a comprehensive technical report for approval by the San Francisco Environmenta	al Review Officer	Monitor construction.		For the Utilities Relocation #2 Contract
that describes the archaeological findings and in				Report is currently being developed by the archaeolog
accordance with state and federal guidelines.	1			Relevant Drawings: N/A
				Relevant Technical Specs: Section 01 11 00 1.11, Dis
				For the Tunnels Contract
				Report will be developed at the end completion of con
				Relevant Drawings: NA
				Relevant Technical Specs: Special Provision SP-17, I
				For the Union Square/Market St Station Contract
				Report will be developed at the completion of constru
				Relevant Drawings: NA
				Relevant Technical Specs: Section 01 35 40, Archaec
				For the Chinatown Station Contract
				Report will be developed at the completion of constru
				Relevant Drawings: NA
				Relevant Technical Specs: Section 01 35 40, Archaeo
				For the Moscone Station Contract
				Report will be developed at the completion of constru
				Relevant Drawings: NA
				Relevant Technical Specs: Section 01 35 40, Archaeo
				For the Systems/Trackwork Contract
				Report will be developed at the completion of constru
				Relevant Drawings: NA
				Relevant Technical Specs: Section 01 35 40, Archaeo

Comments/Notes

change since last contract.

- gist retained by the SFMTA.
- scovery of Archaeological Sites
- onstruction by the archaeologist retained by the Contractor.
- Discovery of Archaeological Sites
- uction by the archaeologist retained by the SFMTA.
- ological Discoveries
- uction by the archaeologist retained by the SFMTA.
- ological Discoveries
- uction by the archaeologist retained by the SFMTA.
- ological Discoveries
- uction by the archaeologist retained by the SFMTA.
- ological Discoveries

MMRP REPORTING TABLE				
DDO IECT NAME AND CASE NO	Constant Sectors and			
PROJECT NAME AND CASE NO.	Central Subway	Project		
EPM CONTACT NAME AND PHONE NO.	Lewis Ames (415)	0 701-4226		
EPM SIGNATURE AND DATE				
SUBMITTAL DATE	09/28/12			
Monitoring and Reporting Action (from MM		Reporting Mechanism	Completed?	
Monitoring and Reporting Action (from Mini	Ki Tabic)	Reporting Meenanism	(Y/N/O)	
MM CNPRE-1e: If unanticipated cultural depos	sits are found	Check Final Engineering documents for compliance.	0	This applies to all of the Construction Contracts - No
during subsurface construction, soil disturbing ad vicinity of the find shall be halted until a qualifie	ed archaeologist	Monitor construction.		For the Utilities Relocation #2 Contract
can assess the discovery and make recommendat and appropriate treatment to the ERO for approv				In addition to the contract requirements the SFMTA i representative during excavation activities.
adopted regulations and policies.	ai in keeping with			Relevant Drawings: NA
				Relevant Technical Specs: Section 01 11 00 1.11, Dis Contract Packages.
				For the Tunnels Contract
				Contractor requirements included in Special Provision
				American representative during excavation activities. Relevant Drawings: NA
				Relevant Technical Specs: Special Provision SP-17, I
				For the Union Square/Market St Station Contract
				Contractor requirements included in the specifications
				and Native American representative during excavation ERO.
				Relevant Drawings: NA
				Relevant Technical Specs: Section 01 35 40, Archaeo
				For the Chinatown Station Contract
				Contractor requirements included in the specifications and Native American representative during excavation
				ERO.
				Relevant Drawings: NA
				Relevant Technical Specs: Section 01 35 40, Archaeo
				For the Moscone Station Contract
				Contractor requirements included in the specifications and Native American representative during excavation
				ERO.
				Relevant Drawings: NA Relevant Technical Specs: Section 01 35 40, Archaeo
				For the Systems/Trackwork Contract
				Contractor requirements included in the specifications and Native American representative during excavation
				ERO.
				Relevant Drawings: NA
				Relevant Technical Specs: Section 01 35 40, Archaeo

Comments/Notes

change since last report.

is providing an on site archaeological monitor and native American

scovery of Archaeological Sites, of the 1250 and 1251 Utility Relocation

ons. SFMTA is providing an on site archaeological monitor and Native .

Discovery of Archaeological Sites

ns. SFMTA is providing an on site archaeologist, archaeological monitor, on activities. Archaeologist is required to make recommendations to the

ological Discoveries

ns. SFMTA is providing an on site archaeologist, archaeological monitor, on activities. Archaeologist is required to make recommendations to the

ological Discoveries, Paragraphs 1.04 & 3.01B5-Halt Work.

ns. SFMTA is providing an on site archaeologist, archaeological monitor, on activities. Archaeologist is required to make recommendations to the

ological Discoveries

ns. SFMTA is providing an on site archaeologist, archaeological monitor, on activities. Archaeologist is required to make recommendations to the

ological Discoveries

MMRP REPORTING TABLE			
PROJECT NAME AND CASE NO. Central Subway	Project		
EPM CONTACT NAME AND PHONE NO. <u>Lewis Ames (415</u>	<u>) 701-4226</u>		
EPM SIGNATURE AND DATE			
SUBMITTAL DATE 09/28/12			
Monitoring and Reporting Action (from MMRP Table)	Reporting Mechanism	Completed? (Y/N/O)	
CONSTRUCTION - HISTORICAL ARCHITECTURAL RESO	URCES (CNHARC)	•	
MM CNHARC-1a: Partial preservation of 933-949 Stockton Street or incorporation of elements of the building into the design of the new station building; salvage significant architectural features from the building for conservation into a historical display or exhibit in the new Chinatown station or in museums; and/or develop a permanent interpretive display for public use on the T- Third line cars or station walls.	Check Final Engineering documents for compliance. Monitor construction.	0	This applies to the Chinatown Subway Station Cons The historic architecture firm Carey and Co. found r preserving. Space for displays, at this point just inte worked with an artist to develop interpretive arty Relevant Drawings: AR-134 AR-132 Relevant Technical Specs: N/A
MM CN-HARC-1b: If the 933-949 Stockton Street building is demolished, perform a Historic American Buildings Survey/Historic American engineering Record documentation.	Check Final Engineering documents for compliance. Monitor construction.	0	This applies to the Chinatown Subway Station Cons since last update. The historic architecture firm of Carey and Co. has a Relevant Drawings: N/A Relevant Technical Specs: N/A

Comments/Notes

struction Contract only.

no historically significant elements of the existing building worth erpretations, is reserved at the concourse level. **The program has** work within the station which will satisfy this mitigation

struction Contract only - Final Design Mitigation Task Closed - No change

completed the report

MMRP REPORTING TABLE				
PROJECT NAME AND CASE NO.	Central Subway	<u>Project</u>		
EPM CONTACT NAME AND PHONE NO.	Lewis Ames (415) 701-4226		
EPM SIGNATURE AND DATE				
SUBMITTAL DATE	<u>09/28/12</u>			
Monitoring and Reporting Action (from MM	IRP Table)	Reporting Mechanism	Completed?	
			(Y/N/O)	
MM CNHARC-2a: Pre-drilling for pile installa would employ secant piles with ground-support and-cover areas would reduce the potential effe	ting walls in the cut-	Design team has selected a drilled pile system that minimizes vibration and the need for pre-drilling. Check Final Engineering documents for compliance. Monitor vibration during construction.	0	 This applies to the Tunnels, to the Union Square/Marl Chinatown Subway Station Construction Contracts - 1 For the Tunnels Contract - Final Design Mitigation T: All proposed methods for installing shoring reflected methods and therefore do not require predrilling for v Relevant Drawings: Required building monitoring me are shown in Building Protection drawings BP- 113; r 101. Instrumentation for the areas where drilled pile install CN1252 is shown in Drawing BP-108. Relevant Technical Specs: Allowable vibration limits Instrumentation and monitoring requirements are con Monitoring. Section 31 09 15 Structural Instrumentation and Mon monitoring For the Union Square/Market St Station Contract - Fin All proposed methods for installing shoring reflected methods and therefore do not require predrilling for v Relevant Technical Specs: Allowable vibration limits Instrumentation and monitoring requirements are com Monitoring For the Union Square/Market St Station Contract - Fin All proposed methods for installing shoring reflected methods and therefore do not require predrilling for v Relevant Drawings: Building Protection Drawings Relevant Technical Specs: Allowable vibration limits Instrumentation and monitoring requirements are com Monitoring and Section 31 09 15 Structural Instrument For the Chinatown Station Contract - Final Design M The design utilizes slury walls minimizing vibration Relevant Technical Specs: Allowable vibration limits Instrumentation and monitoring requirements are com Monitoring and Section 31 09 15 Structural Instrument For the Moscone Station Contract - Final Design Miti The design utilizes slury walls minimizing vibration Relevant Drawings: Building Protection Drawings Relevant Technical Specs: Allowable vibration limits Instrumentation and monitoring requirements are com Monitoring and Section 31 09 15 Structural Instrument for the Moscone Station Contract - Final Design Miti The design utilizes slury walls minimizing vibration<!--</td-->

Comments/Notes

ket St Subway Station, to the Moscone Subway Station, and to the **No change since last update.**

ask Closed

in the plans (cased secant piles and diaphragm walls) are non-impact vibration control.

easures for tunnel-related surface excavations at the TBM Launch Box required instrumentation for the TBM Retrieval Shaft is shown in BP-

llation methods will be used for the UMS headwalls constructed as part of

s are specified in Section 01 57 19 Environmental Mitigation Measures. ntained in Sections 31 09 13 Geotechnical Instrumentation and

nitoring identifies specific historic buildings that require vibration

inal Design Mitigation Task Closed in the plans (cased secant piles and diaphragm walls) are non-impact vibration control.

s specified in 01 57 19 Environmental Mitigation Measures. ntained in Sections 31 09 13 Geotechnical Instrumentation and entation and Monitoring.

fitigation Task Closed so no drilling is required.

s specified in 01 57 19 Environmental Mitigation Measures. ntained in Sections 31 09 13 Geotechnical Instrumentation and entation and Monitoring.

igation Task Closed so no drilling is required.

s specified in 01 57 19 Environmental Mitigation Measures. ntained in Sections 31 09 13 Geotechnical Instrumentation and entation and Monitoring.

MMRP REPORTING TABLE			
PROJECT NAME AND CASE NO. <u>Central Su</u>	oway Project		
EPM CONTACT NAME AND PHONE NO. Lewis Ame	<u>a (415) 701-4226</u>		
EPM SIGNATURE AND DATE			
SUBMITTAL DATE 09/28/12			
Monitoring and Reporting Action (from MMRP Table)	Reporting Mechanism	Completed?	
		(Y/N/O)	
 MM CNHARC-2b: Vibration monitoring of historic structur adjacent to tunnels and portals will be specified in the constructocuments to ensure that historic properties do not sustain daduring construction. Vibration impacts would be mitigated to less-than-significant level. If a mitigation monitoring plan provides the following: The contractor will be responsible for the protection of vibration-sensitive historic building structures that are within feet of any construction activity. The maximum peak particle vibration (PPV) velocity lev any direction, at any of these historic structures should not ex 0.12 inches/second for any length of time. The Contractor will be required to perform periodic vibra monitoring at the closest structure to ground disturbing construction activities, such as tunneling and station excavate using approved seismographs. If at any time the construction activity exceeds this level, activity will immediately be halted until such time as an altern construction method can be identified that would result in lower vibration levels. 	 vibration and the need for pre-drilling. Check Final Engineering documents for compliance. Monitor vibration during construction. 200 l, in eed ion n, that 	zes O	This applies to the Tunnels, to the Union Square/Marl Chinatown Subway Station Construction Contracts No change since last update For the Tunnels Contract - Final Design Mitigation Ta Allowable noise and vibration limits are provided in t Relevant Drawings: Building Protection Drawings shh historic buildings listed in Section 31 09 15 that requi Relevant Technical Specs: Allowable vibration limits Instrumentation and monitoring requirements are com Monitoring. Section 31 09 15 Structural Instrumentation and Moni monitoring For the Union Square/Market St Station Contract - Fin Allowable noise and vibration limits are provided in t Relevant Drawings: Building Protection Drawings Relevant Technical Specs: Allowable vibration limits Instrumentation and monitoring requirements are com Monitoring and Section 31 09 15 Structural Instrumer For the Chinatown Station Contract - Final Design M Allowable noise and vibration limits are provided in t Relevant Technical Specs: Allowable vibration limits Instrumentation and monitoring requirements are com Monitoring and Section 31 09 15 Structural Instrumer For the Chinatown Station Contract - Final Design M Allowable noise and vibration limits are provided in t Relevant Technical Specs: Allowable vibration limits Instrumentation and monitoring requirements are com Monitoring and Section 31 09 15 Structural Instrumer For the Moscone Station Contract - Final Design Miti Allowable noise and vibration limits are provided in t Relevant Technical Specs: Allowable vibration limits Instrumentation and monitoring requirements are com Monitoring and Section 31 09 15 Structural Instrumer For the Moscone Station Contract - Final Design Miti Allowable noise and vibration limits are provided in t Relevant Technical Specs: Allowable vibration limits Instrumentation and monitoring requirements are com Monitoring and Section 31 09 15 Structural Instrumer

Comments/Notes

ket St Subway Station, to the Moscone Subway Station, and to the

Task Closed

the specifications.

now block and parcel numbers for all buildings and can be used to locate ire vibration monitoring.

s are specified in Section 01 57 19 Environmental Mitigation Measures. ntained in Sections 31 09 13 Geotechnical Instrumentation and

nitoring identifies specific historic buildings that require vibration

inal Design Mitigation Task Closed the specifications.

s specified in 01 57 19 Environmental Mitigation Measures. ntained in Sections 31 09 13 Geotechnical Instrumentation and entation and Monitoring.

litigation Task Closed the specifications.

s specified in 01 57 19 Environmental Mitigation Measures. ntained in Sections 31 09 13 Geotechnical Instrumentation and entation and Monitoring.

tigation Task Closed the specifications.

s specified in 01 57 19 Environmental Mitigation Measures. atained in Sections 31 09 13 Geotechnical Instrumentation and intation and Monitoring.

MMRP REPORTING TABLE				
PROJECT NAME AND CASE NO.	Central Subway	Project		
EPM CONTACT NAME AND PHONE NO.	Lewis Ames (415)	0 701-4226		
EPM SIGNATURE AND DATE				
SUBMITTAL DATE	<u>09/28/12</u>			
Monitoring and Reporting Action (from MM	RP Table)	Reporting Mechanism	Completed? (Y/N/O)	
CONSTRUCTION - VISUAL AND AESTHE	TIC RESOURCES	S (CNVAES)	(' ' ' ' '	
IN CNVAES-1a: Construction staging areas an in these areas may be screened from view during minimize potential visual impacts.	d excavation sites	Check Final Engineering documents for compliance. Monitor construction.	0	This applies to all of the Construction Contracts For the Utilities Relocation #2 Contract - Final Desig The contractor is installing 6' high wood barricades t of the adjacent retail store. Relevant Drawings: N/A Relevant Technical Specs: 01 57 19 Environmental M For the Tunnels Contract - Final Design Mitigation T Spec 01 56 10 requires a 6 foot chain link fence arou spillage. Contractor will be required to add slats to f Relevant Drawings: N/A Relevant Technical Specs: 01 56 10 Temporary Site For the Union Square/Market St Station Contract - F The contractor is required to provide Chain Link Fen Relevant Drawings: N/A Relevant Technical Specs: 01 56 10 Temporary Site For the Chinatown Station Contract - Final Design M The contractor is required to provide Chain Link Fen Relevant Drawings: N/A Relevant Technical Specs: 01 56 10 Temporary Site For the Chinatown Station Contract - Final Design M The contractor is required to provide Chain Link Fen Relevant Drawings: N/A Relevant Technical Specs: 01 56 10 Temporary Site For the Moscone Station Contract - Final Design M The contractor is required to provide Chain Link Relevant Technical Specs: 01 56 10 Temporary Site For the Moscone Station Contract - Final Design M The contractor is required to provide Chain Link Relevant Drawings: N/A Relevant Technical Specs: 01 56 10 Temporary Site For the Systems/Trackwork Contract - Final Design M The contractor is required to provide Chain Link Fen Relevant Drawings: N/A Relevant Technical Specs: 01 56 10 Temporary Site

Comments/Notes

gn Mitigation Task Closed to alleviate the visual impacts. These barricades include the names/logos

Mitigation Measures

Task Closed und site areas with protection to the public from traffic, mud, and grout fence for screening purposes.

Construction

Final Design Mitigation Task Closed nce with Slats to minimize visual impacts.

Construction, 1.10A

Mitigation Task Closed nce with Slats to minimize visual impacts.

Construction, 1.10A

itigation Task Closed **c Fence with Slats to minimize visual impacts.**

Construction, 1.11, Fencing, Section C

Mitigation Task Closed nce with Slats to minimize visual impacts. s: 01 56 10 Temporary Site Construction, 1.11 A 2

MMRP REPORTING TABLE				
REQUECT NAME AND CASE NO	Constant Sectors of	Deve to a d		
PROJECT NAME AND CASE NO.	Central Subway	roject		
EPM CONTACT NAME AND PHONE NO.	Lewis Ames (415) 701-4226		
EPM SIGNATURE AND DATE				
SUBMITTAL DATE	<u>09/28/12</u>			
Monitoring and Reporting Action (from MMI	RP Table)	Reporting Mechanism	Completed?	
			(Y/N/O)	
IM CN-VAES-1b: In visually sensitive landscar		Check Final Engineering documents for compliance.	0	This applies to all of the Construction Contracts - No
Square and Chinatown, temporary screening or p around the station construction sites and shaded		Monitor construction.		For the Utilities Relocation #2 Contract
be used to reduce the visual effects of construction				The contractor is installing 6' high wood barricades t
to reduce glare.				lighting.
				Relevant Drawings: N/A Relevant Technical Specs: 01 57 19
				Relevant reemieur spees. or 57 15
				For the Tunnels Contract
				The contractor is required to install barricades to alle Relevant Drawings: N/A
				Relevant Technical Specs: 01 57 19
				For the Union Square/Market St Station Contract
				For the Union Square/Market St Station Contract The contractor is required to provide Chain Link Fen
				directed to minimize nuisance to surrounding proper
				Relevant Drawings: N/A
				Relevant Technical Specs: 01 56 10 Temporary Site
				For the Chinatown Station Contract
				The contractor is required to provide Chain Link Fen
				directed to minimize nuisance to surrounding propert Relevant Drawings: N/A
				Relevant Technical Specs: 01 56 10 Temporary Site
				For the Moscone Station Contract
				The contractor is required to provide Chain Link Fen
				directed to minimize nuisance to surrounding proper
				Relevant Drawings: N/A Relevant Technical Specs: 01 56 10 Temporary Site
				Recvant reclinical spees. of 50 to reliporary site
				For the Systems/Trackwork Contract
				The contractor is required to provide Chain Link Fen directed to minimize nuisance to surrounding proper
				Relevant Drawings: N/A
				Relevant Technical Specs: 01 56 10 Temporary Site

Comments/Notes

change since last update.

to alleviate the visual impacts. Any night work shall include shaded

eviate the visual impacts. Any night work shall include shaded lighting.

nce with Slats to minimize visual impacts. Construction lighting shall be rty owners and users.

Construction, 1.10A, 1.14

nce with Slats to minimize visual impacts. Construction lighting shall be rty owners and users.

Construction, 1.10A, 1.14

nce with Slats to minimize visual impacts. Construction lighting shall be rty owners and users.

Construction, 1.10A, 1.14

nce with Slats to minimize visual impacts. Construction lighting shall be rty owners and users.

Construction, 1.10A, 1.14

MMRP REPORTING TABLE				
DROJECT NAME AND CASE NO	Genteral Sectores 1			
PROJECT NAME AND CASE NO.	Central Subway	Project		
EPM CONTACT NAME AND PHONE NO.	Lewis Ames (415)	0 701-4226		
EPM SIGNATURE AND DATE				
SUBMITTAL DATE	09/28/12			
				[
Monitoring and Reporting Action (from MM	RP Table)	Reporting Mechanism	Completed? (Y/N/O)	
CONSTRUCTION – UTILITIES (CNUTL)			(Y/N/O)	
IM CNUT-1a: Utility relocation coordination w	yould take place	Check Final Engineering documents for compliance.	0	This applies to all of the Construction Contracts - No
during detailed design in consultation with the un	tility agencies and	Monitor construction.	Ŭ	
the design team and would be phased to ensure t	that pedestrian and			For the Utilities Relocation #2 Contract - Final Desig
vehicular traffic flows are maintained.				Contract documents have been prepared in coordinati Relevant Drawings: All
				Relevant Technical Specs: Division 33 Utilities
				01 55 26, Traffic Control
				For the Tunnels Contract - Final Design Mitigation T
				Contract documents have been prepared in coordination
				Relevant Drawings: All
				Relevant Technical Specs: Division 33 Utilities
				For the Union Square/Market St Station Contract - Fi
				Contract documents have been prepared in coordinati Relevant Drawings: All
				Relevant Technical Specs: Division 33 Utilities
				-
				For the Chinatown Station Contract - Final Design M Contract documents have been prepared in coordination
				Relevant Drawings: All
				Relevant Technical Specs: Division 33 Utilities
				For the Moscone Station Contract - Final Design Mit
				Contract documents have been prepared in coordinati
				Relevant Drawings: All
				Relevant Technical Specs: Division 33 Utilities
				For the Systems/Trackwork Contract
				Contract documents are being prepared in coordination
				Relevant Drawings: All Relevant Technical Specs: Division 33 – Utilities
				Relevant Technical Spees. Division 55 – Otimies

Comments/Notes

o change since last update.

gn Mitigation Task Closed tion with all affected City and private utilities.

Task Closed tion with all affected City and private utilities.

Final Design Mitigation Task Closed tion with all affected City and private utilities.

Aitigation Task Closed tion with all affected City and private utilities.

tigation Task Closed ion with all affected City and private utilities.

on with all affected City and private utilities.

MMRP REPORTING TABLE				
PROJECT NAME AND CASE NO.	<u>Central Subway I</u>	Project		
EPM CONTACT NAME AND PHONE NO.	Lewis Ames (415)	701-4226		
EPM SIGNATURE AND DATE				
SUBMITTAL DATE	<u>09/28/12</u>			
Monitoring and Reporting Action (from MMF	RP Table)	Reporting Mechanism	Completed? (Y/N/O)	
CONSTRUCTION – GEOLOGY AND SEISM	AICITY (CNSET)		(• • • • • • • •	<u> </u>
MM CNSET-1a: Provisions such as concrete dia		Check Final Engineering documents for compliance.	0	This applies to the Tunnels Construction Contract only
support the excavation and instrumentation to me and deformation would be used to ensure that stru- tunnel alignments are not affected by excavations	uctures adjacent to s.	Monitor construction.		Shoring systems for TBM Launch Box and TBM Retrie diaphragm walls to provide a relatively watertight and s support system performance. Relevant Drawings: Structural designs for diaphragm w For TBM Retrieval Shaft: ST-162 through 183 Required building monitoring measures for tunnel-relate Protection drawings BP- 113; required instrumentation Relevant Technical Specs: Specifications for wall system 66 16.46 Slurry Diaphragm Foundation Walls Instrumentation and monitoring requirements are contait Section 31 09 15 Structural Instrumentation and Monitor Mitigation Measures.
MM CNSET-1b: Tunnel construction methods t ground movement, such as pressure-faced TBMs Excavation Method, and ground improvement teo compensation grouting, jet grouting or underpinn	, Sequential chniques such as	Check Final Engineering documents for compliance. Monitor construction.	0	This applies to the Tunnels, to the Union Square/Marke Subway Station Construction Contracts - No change sin For the Tunnels Contract - Final Design Mitigation Tash State-of-the-art Pressurized Face TBMs are required for Mandatory compensation grouting required for all build Relevant Drawings: Building Protection drawings BP-1 mandatory. Drawings BP-101 through BP113 show layout of requir Relevant Technical Specs: Section 31 71 19 Tunnel Exc mandatory use of a pressurized face tunnel boring mach Allowable vibration limits are specified in Section 01 57 Instrumentation and monitoring requirements are contai 31 09 15 Structural Instrumentation and Monitoring. Compensation grouting requirements are addressed in S For the Union Square/Market St Station Contract - Fina This mitigation measure refers to tunnel construction, an Relevant Technical Specs: N/A For the Chinatown Station Contract - Final Design Mitig This mitigation measure refers to tunnel construction, an Relevant Technical Specs: N/A For the Moscone Station Contract - Final Design Mitig This mitigation measure refers to tunnel construction, an Relevant Technical Specs: N/A For the Moscone Station Contract - Final Design Mitig This mitigation measure refers to tunnel construction, an Relevant Technical Specs: N/A

Comments/Notes

- Final Design Mitigation Task Closed - No change since last update

eval Shaft employ either internally braced cased secant piles or slurry type stiff support system. Instrumentation provided around all shafts to verify

valls for TBM Launch Box are shown in Drawings: ES-501 through ES-563

ed surface excavations at the TBM Launch Box are shown in Building for the TBM Retrieval Shaft is shown in BP-101. ms are provided in Section 31 62 13.14 Secant Pile Diaphragm Walls and 31

ined in Sections 31 09 13 Geotechnical Instrumentation and Monitoring and oring. Vibration limits are specified in Section 01 57 19 Environmental

t St Subway Station, to the Moscone Subway Station, and to the Chinatown nce last update

sk Closed

r the tunnel construction.

dings that the TBM tunnels cross beneath (Grout A buildings).

121 through BP-131 show buildings where use of compensation grouting is

red settlement instrumentation.

cavation by Tunnel Boring Machine provides specific requirements for hine.

57 19 Environmental Mitigation Measures.

ained in Sections 31 09 13 Geotechnical Instrumentation and Monitoring and

Section 31 43 14 Compensation Grouting.

ll Design Mitigation Task Closed nd does not apply to the construction of Union Square / Market Street Station.

gation Task Closed nd does not apply to the construction of Chinatown Station.

ation Task Closed

and does not apply to the construction of Moscone Station.

MMRP REPORTING TABLE				
PROJECT NAME AND CASE NO.	Central Subway	Project		
EPM CONTACT NAME AND PHONE NO.	Lewis Ames (415) 701-4226		
EPM SIGNATURE AND DATE				
SUBMITTAL DATE	09/28/12			
		Derester Malaster	Correcto 40 19	
Monitoring and Reporting Action (from MM	RP Table)	Reporting Mechanism	Completed? (Y/N/O)	
MM CNSET-1c: Rigorous geomechanical instru	umentation would	Check Final Engineering documents for compliance.	0	This applies to the Tunnels, to the Union Square/Man
be used to monitor underground excavation and	grouting or	Monitor construction.	0	Chinatown Subway Station Construction Contracts -
underpinning will be employed to avoid displace	ement of structures.			
				For the Tunnels Contract - Final Design Mitigation T Mandatory compensation grouting is required for all
				Mandatory settlement/deformation instrumentation re
				BART Tunnels.
				Relevant Drawings: See Building Protection drawing Relevant Technical Specs: 31 09 13 Geotechnical Ins
				31 09 15 Structural Instrumentation and Monitoring
				For the Union Square/Market St Station Contract - Fi Required building monitoring and compensation group
				Protection drawings. Instrumentation and monitoring
				program to mitigate building settlement, are contained
				Relevant Drawings: BP- drawings Relevant Technical Specs: 31 09 13 Geotechnical Ins
				31 09 15 Structural Instrumentation and Monitoring
				31 43 14 Compensation Grouting
				For the Chinatown Station Contract - Final Design M
				Contract documents outline the specific measures and
				displacement of structures. Detailed instrumentation
				between the cavern and the ground surface and of inc compensation grouting and modification of the grour
				Relevant Drawings: BP-011, -012-,013,-031 and -032
				Relevant Technical Specs: 31 09 13 Geotechnical Ins
				and Monitoring; and 31 09 15 Structural Instrumenta
				For the Moscone Station Contract - Final Design Mit
				Required building monitoring and compensation group
				Protection drawings. Instrumentation and monitoring program to mitigate building settlement, are contained
				Relevant Drawings: BP- drawings
				Relevant Technical Specs: 31 09 13 Geotechnical Ins
				31 09 15 Structural Instrumentation and Monitoring31 43 14 Compensation Grouting
				51 15 14 Compensation Grouning

Comments/Notes

rket St Subway Station, to the Moscone Subway Station, and to the **No change since last update**

Task Closed

l buildings that the TBM tunnels cross beneath (Grout A buildings). required on all potentially affected buildings along alignment and inside

g series BP-001 through BP-316 strumentation and Monitoring

inal Design Mitigation Task Closed

buting measures for station-related excavations are shown in the Building ag requirements, as well as requirements for a compensation grouting ed in the technical specifications.

strumentation and Monitoring

litigation Task Closed

nd mitigation strategies available to the contractor to minimize n inside the cavern excavation, on the ground surface, in the ground dividual buildings will inform the use of mitigation measures, such as nd excavation and support methods.

32; ES-981, -982, -983, -984, -985, -986 and -991

strumentation and Monitoring; 31 09 13.60 SEM Tunnel Instrumentation ation and Monitoring; 31 43 14 Compensation Grouting

tigation Task Closed

buting measures for station-related excavations are shown in the Building ag requirements, as well as requirements for a compensation grouting ed in the technical specifications.

strumentation and Monitoring

MMRP REPORTING TABLE				
PROJECT NAME AND CASE NO.	Central Subway	Project		
EPM CONTACT NAME AND PHONE NO.	Lewis Ames (415)	<u>) 701-4226</u>		
EPM SIGNATURE AND DATE				
SUBMITTAL DATE	<u>09/28/12</u>			
Monitoring and Reporting Action (from MM	RP Table)	Reporting Mechanism	Completed? (Y/N/O)	
MM CNSET-2a: Automated ground movement be used to detect distortion on the BART/Muni I grout pipes will be placed prior to tunnel excava immediate injection of compensation grouting to losses if deformation exceeds established thresho CONSTRUCTION – HYDROLOGY AND W	Metro tunnels and tion to allow o replace ground olds.	Check Final Engineering documents for compliance. Monitor construction.	0	This applies to the Tunnels Construction Contract on Mandatory compensation grouting is required where Mandatory settlement/deformation instrumentation is Relevant Drawings: See Building Protection drawing Relevant Technical Specs: 31 09 15 Structural Instru- 31 43 14 Compensation Grouting
MM CNHWWQ-1a: Watertight shoring and fu	-	Check Final Engineering documents for compliance.	0	This applies to the Union Square/Market St Subway
station structures will be designed and construct compounding ground water inflows to the Powe	ed to avoid Il Street Station.	Monitor construction.		 No change since last update Station structures are designed to avoid compounding Hydrogeological Study have been incorporated into t Relevant Drawings: ST-911 to ST-919 Relevant Technical Specs: 07 14 16 Cold Fluid-Appl
IM CNBIO-1a: Any street trees removed or dar		Check Final Engineering documents for compliance.	0	This applies to the Utilities Relocation #2 and to the
construction would be replaced along the street a		Monitor construction.		For the Utilities Relocation #2 Contract - Final Desig Trees removed will be replaced at a ratio of 2:1. Cur Relevant Drawings: N/A Relevant Technical Specs: 01 76 29 Protection of Exi For the Tunnels Contract - Final Design Mitigatio For the Tunnel Contract - Construction Implemer a. A single tree in the median divider of Columbus The location of where the tree in the median divid Demolition Plan Sheet 2 of 2, Drawing No. LA-012 c. The removal of the tree is preceded by a permit d. A permit for removal has been requested from 1 e. The permit process requires a notification inclu- f. The location where the replacement tree would I Drawing No. LA-021. g. By carrying out the contract specifications and contractor would carry out the mitigation specifie Relevant Drawings: Landscaping Plans LA-011, 0 Relevant Technical Specs: 01 76 29 Protection of H 32 90 05 Tree Protection, Pruning, Root Pruning a 32 90 00 Planting

Comments/Notes

ly - Final Design Mitigation Task Closed - No change since last update

the TBM tunnels cross beneath the BART tunnels. s required inside the BART Tunnels. g series BP-122, 123 and 124 and through BP-313 and 316 mentation and Monitoring

Station Construction Contract only - Final Design Mitigation Task Closed

g ground water inflows to the Powell Street Station. Requirements of a the contract documents.

lied Waterproofing

Tunnels Construction Contracts

gn Mitigation Task Closed rrent plans require removal of only one tree.

isting Property Article 1.06 Street Tree Protection

on Task Closed

ntation

s Ave. is signed for removal in compliance with the notification b. ler of Columbus Ave. is to be removed is shown in the Landscaping 2

t from DPW-Bureau of Urban Forests (BUF) BUF

Iding a posting on the tree; the posting was placed on the tree. be planted is shown on the Landscaping Planting Plan Sheet 1 of 2,

implementing the contract drawings through completion, the ed in the MMRP. 012, 021, 022 and 031 Existing Property Article 1.06 Street Tree Protection and Removal

MMRP REPORTING TABLE				
PROJECT NAME AND CASE NO.	Central Subway	Project		
EPM CONTACT NAME AND PHONE NO.	Lewis Ames (415)	<u>) 701-4226</u>		
EPM SIGNATURE AND DATE				
SUBMITTAL DATE	09/28/12			
Monitoring and Reporting Action (from MMR	RP Table)	Reporting Mechanism	Completed?	
	. 11		(Y/N/O)	
IM CNBIO-2a: A certified arborist would be preduring excavation of the Columbus Avenue TBM		Check Final Engineering documents for compliance. Monitor construction.	О	This applies to the Tunnels Construction Contract or
monitor protection of tree roots.		Nontor construction.		For the Tunnel Contract - Construction Impleme
				a. The specification call out tasks specific tasks th
				b. A tree protection plan has been prepared to cal was selected and retained.
				c. HortScience submitted Monitoring Report #1
				monitoring of the excavation on Columbus Ave 9-
				HortScience recommended tree protection when
				d. The arborist will be present as needed during e e. By carrying out the specifications below, the co
				mitigation specified in the MMRP.
				initigation specifica in the minitia i
				For the Tunnel Contract - Final Design Mitigation T
				Relevant Drawings: Landscaping Plans LA-011, 012
				Relevant Technical Specs: 01 76 29 Protection of Ex 32 90 05 Tree Protection, Pruning, Root Pruning and
CONSTRUCTION - HAZARDOUS MATERI MM CNHAZ-1a: Implementation of mitigation	. ,	Check Final Engineering documents for compliance.	0	This applies to all of the Construction Contracts - N
to those required for properties under the jurisdict		Monitor construction.	0	This applies to an of the Construction Contracts - N
preparation of a Site History Report; Soil Quality				For the Utilities Relocation #2 Contract - Final Desig
including a Soils Analysis Report and a Site Mitig	gation Report			Specifications address management, handling and di
(SMR); description of Environmental Conditions				Relevant Drawings: N/A
Safety Plan (HSP); Guidelines for the Manageme of Excavated Soils; and a Certification Statemen				Relevant Technical Specs: 01 35 29.10 Health and S 01 57 19 Environmental Mitigation Measures
that no mitigation is required or the SMR would r				01 57 23 Environmental Management of Excavated 1
to the environment of human health and safety. T	This measure			
would ensure that the project impacts are mitigate	ed to a less-than-			For the Tunnels Contract - Final Design Mitigation
significant level.				Specifications address management, handling and di Relevant Drawings: N/A
				Relevant Technical Specs: 01 35 29.10 Health and S
				01 57 19 Environmental Mitigation Measures
				01 57 23 Environmental Management of Excavated
		1		

Comments/Notes

nly

entation

ne contractor will carry out during construction near trees. arry out these tasks. A certified arborist Jim Clark, HortScience, Inc.,

Union Columbus tree inspection of Synergy 9-14 2012 from a -14. performing work in close proximity to the trees.

excavation to monitor protection of tree roots. Distruction contractor, with the arborist on site, carries out the

Tasks Closed 2, 021, 022 and 031 xisting Property Article 1.06 Street Tree Protection d Removal

No change since last update

gn Mitigation Task Closed isposal of hazardous materials as well as the health and safety aspects.

Safety

Materials

Task Closed isposal of hazardous materials as well as the health and safety aspects.

Safety

Materials

Page 45 of 50

MMRP REPORTING TABLE				
PROJECT NAME AND CASE NO.	Central Subway	Project		
EPM CONTACT NAME AND PHONE NO.	Lewis Ames (415)	<u>) 701-4226</u>		
EPM SIGNATURE AND DATE				
SUBMITTAL DATE	<u>09/28/12</u>			
Monitoring and Reporting Action (from MM	RP Table)	Reporting Mechanism	Completed? (Y/N/O)	
MM CNHAZ-1a: Implementation of mitigation to those required for properties under the jurisdis preparation of a Site History Report; Soil Qualit including a Soils Analysis Report and a Site Mit (SMR); description of Environmental Condition Safety Plan (HSP); Guidelines for the Managem of Excavated Soils; and a Certification Stateme that no mitigation is required or the SMR would to the environment of human health and safety. would ensure that the project impacts are mitiga significant level. (continued from previous pag	ction of Article 20: y Investigation, igation Report s; Health and ent and Disposal nt that confirms mitigate the risks This measure ted to a less-than-	Check Final Engineering documents for compliance. Monitor construction. (continued from previous page)		For the Union Square/Market St Station Contract - Fin The contractor shall perform a Soil Quality Investigation prior to excavation in order to determine the types of meruse. The contractor shall submit a monthly Soils An from the site. For a Site Mitigation Report the contract spreadsheet. The specifications include a Description of Environmental C The contractor is required to submit a Health and Safet Contractor shall also adhere to all the requirements list The contractor is required to submit for approval an Ex- Management and Disposal of Excavated Soils. Certification Statement that confirms that no mitigation human health and safety shall be conformed to by gene Relevant Technical Specs: 01 35 00 Hazardous Materi 01 35 29.10 Health and Safety 1.03 & 1.06 01 57 19 Environmental Mitigation Measures 01 57 23 Environmental Mitigation Measures 01 57 23 Environmental Management of Excavated M For the Chinatown Station Contract - Final Design Mit The contractor shall perform a Soil Quality Investigation prior to excavation in order to determine the types of meuse. The contractor shall submit a monthly Soils An from the site. For a Site Mitigation Report the contract spreadsheet. The specifications include a Description of Environmental C The contractor is required to submit a Health and Safet Contractor shall also adhere to all the requirements list The contractor is required to submit for approval an Ex- Management and Disposal of Excavated Soils. Certification Statement that confirms that no mitigation human health and safety shall be conformed to by gene Relevant Technical Specs: 01 35 00 Hazardous Materi 01 35 29.10 Health and Safety 1.03 & 1.06 01 57 19 Environmental Mitigation Measures 01 57 23 Environmental Management of Excavated M

Comments/Notes

inal Design Mitigation Task Closed

tion by taking soil borings, performing soil sampling, and soil testing material, whether hazardous, and the appropriate facility for disposal or analysis Report, in the form of a spreadsheet, for all soils to be disposed actor shall list the disposal locations of all excavated soils on this

nental Conditions, titled as "Site Conditions", that lists all the reports Conditions.

ety Plan, designated as Injury Illness Prevention Program, for approval. sted in Specification 01 35 29.10, Health and Safety.

Excavated Materials Management Plan that states their guidelines for the

on is required or the SMR would mitigate the risks to the environment of nerating Hazardous Waste or Non Hazardous Waste Manifests.

rials Conditions

Materials

litigation Task Closed

tion by taking soil borings, performing soil sampling, and soil testing material, whether hazardous, and the appropriate facility for disposal or analysis Report, in the form of a spreadsheet, for all soils to be disposed actor shall list the disposal locations of all excavated soils on this

nental Conditions, titled as "Site Conditions", that lists all the reports Conditions.

ety Plan, designated as Injury Illness Prevention Program, for approval. sted in Specification 01 35 29.10, Health and Safety.

Excavated Materials Management Plan that states their guidelines for the

on is required or the SMR would mitigate the risks to the environment of nerating Hazardous Waste or Non Hazardous Waste Manifests.

rials Conditions

Materials

MMRP REPORTING TABLE				
PROJECT NAME AND CASE NO.	Central Subway	Project		
EPM CONTACT NAME AND PHONE NO.	Lowis Amos (115)	701 4226		
EPM CONTACT NAME AND FROME NO.	Lewis Ames (415	//01-4220		
EPM SIGNATURE AND DATE				
EPM SIGNATURE AND DATE				
SUBMITTAL DATE	09/28/12			
Monitoring and Reporting Action (from MM	RP Table)	Reporting Mechanism	Completed?	
			(Y/N/O)	
MM CNHAZ-1a: Implementation of mitigation to those required for properties under the jurisdic preparation of a Site History Report; Soil Quality including a Soils Analysis Report and a Site Mitt (SMR); description of Environmental Conditions Safety Plan (HSP); Guidelines for the Manageme of Excavated Soils; and a Certification Statement that no mitigation is required or the SMR would to the environment of human health and safety. would ensure that the project impacts are mitigat significant level. (continued from previous page	ction of Article 20: y Investigation, igation Report s; Health and ent and Disposal nt that confirms mitigate the risks This measure ted to a less-than-	Check Final Engineering documents for compliance. Monitor construction. (continued from previous page)	0	 For the Moscone Station Contract - Final Design Mitig The contractor shall perform a Soil Quality Investigation prior to excavation in order to determine the types of m reuse. The contractor shall submit a monthly Soils Ana- from the site. For a Site Mitigation Report the contract spreadsheet. The specifications include a Description of Environmental Co- the contractor is required to submit a Health and Safet Contractor shall also adhere to all the requirements list. The contractor is required to submit of approval an Ex- Management and Disposal of Excavated Soils. Certification Statement that confirms that no mitigation human health and safety shall be conformed to by gene Relevant Technical Specs: O1 35 00 Hazardous Materials Conditions O1 35 29.10 Health and Safety 1.03 & 1.06 O1 57 19 Environmental Mitigation Measures O1 57 23 Environmental Mitigation Measures O1 57 7 and Environmental Mitigation Report the contractor shall perform a Soil Quality Investigation prior to excavation in order to determine the types of m reuse. The contractor shall perform a Soil Quality Investigation prior to excavation in order to determine the types of m reuse. The contractor shall submit a monthly Soils Ana- from the site. For a Site Mitigation Report the contract spreadsheet. The specifications include a Description of Environmental Co- the contractor is required to submit a Health and Safet Contractor shall also adhere to all the requirements list The contractor is required to submit a Health and Safet Contractor shall also adhere to all the requirements list The contractor is required to submit a thealth and Safet Contractor is required to submit a thealth and Safet Contractor shall also adhere to all the requirements list The contractor is required to submit for approval an Ex- Management and Disposal of Excavated Soils. Certification Statement that confirms that no mitigation human health and safety shall be conformed to by gene Re

Comments/Notes

igation Task Closed

tion by taking soil borings, performing soil sampling, and soil testing material, whether hazardous, and the appropriate facility for disposal or analysis Report, in the form of a spreadsheet, for all soils to be disposed actor shall list the disposal locations of all excavated soils on this

nental Conditions, titled as "Site Conditions", that lists all the reports Conditions.

ety Plan, designated as Injury Illness Prevention Program, for approval. sted in Specification 01 35 29.10, Health and Safety.

Excavated Materials Management Plan that states their guidelines for the

on is required or the SMR would mitigate the risks to the environment of nerating Hazardous Waste or Non Hazardous Waste Manifests.

Materials

Mitigation Task Closed

tion by taking soil borings, performing soil sampling, and soil testing material, whether hazardous, and the appropriate facility for disposal or analysis Report, in the form of a spreadsheet, for all soils to be disposed actor shall list the disposal locations of all excavated soils on this

nental Conditions, titled as "Site Conditions", that lists all the reports Conditions.

Yety Plan, designated as Injury Illness Prevention Program, for approval. sted in Specification 01 35 29.10, Health and Safety.

Excavated Materials Management Plan that states their guidelines for the

on is required or the SMR would mitigate the risks to the environment of nerating Hazardous Waste or Non Hazardous Waste Manifests.

rials Conditions

Materials

MMRP REPORTING TABLE				
PROJECT NAME AND CASE NO.	Central Subway	<u>Project</u>		
EPM CONTACT NAME AND PHONE NO.	Lewis Ames (415) 701-4226		
EPM SIGNATURE AND DATE				
SUBMITTAL DATE	<u>09/28/12</u>			
Monitoring and Reporting Action (from MM	RP Table)	Reporting Mechanism	Completed?	
CONSTRUCTION - NOISE AND VIBRATIO	ON (CNNV)		(Y/N/O)	
MM CNNV-1a: The Contractor shall be require	· · ·	Check Final Engineering documents for compliance.	0	This applies to all of the Construction Contracts - No ch
periodic vibration monitoring using approved set historic structure closest to the construction activ construction activity exceeds a 0.12 inches/secon construction activity shall be immediately halted alternative construction method that would result vibration levels can be identified.	ismographs at the vity. If the nd level, the l until an	Monitor construction.		For the Utilities Relocation #2 Contract - Final Design M Noise and Vibration Control Plans are required per Cont noise and vibration levels to ensure contract compliance. Relevant Drawings: N/A Relevant Technical Specs: Sections 01 57 19 1.08, Noise of the 1250 and 1251 Utility Relocation Contract Specifi
				For the Tunnels Contract - Final Design Mitigation Task Specifications address the 0.12 in/sec vibration level for Relevant Drawings: N/A Relevant Technical Specs: 01 57 19 Environmental Miti 31 09 15 Structural Instrumentation and Monitoring
				For the Union Square/Market St Station Contract - Final Noise and Vibration Control Plans are required per Cont noise and vibration levels to ensure contract compliance 0.12 inches/sec for adjacent historic structures that halt of Relevant Drawings: N/A Relevant Technical Specs: 01 57 19 Environmental Miti 31 09 15 Structural Instrumentation and Monitoring
				For the Chinatown Station Contract - Final Design Mitig Noise and Vibration Control Plans are required per Cont noise and vibration levels to ensure contract compliance 0.12 inches/sec for adjacent historic structures that halt of Relevant Drawings: N/A Relevant Technical Specs: 01 57 19 Environmental Miti 31 09 15 Structural Instrumentation and Monitoring
				For the Moscone Station Contract - Final Design Mitigat Noise and Vibration Control Plans are required per Cont noise and vibration levels to ensure contract compliance 0.12 inches/sec for adjacent historic structures that halt of Relevant Drawings: N/A Relevant Technical Specs: 01 57 19 Environmental Miti 31 09 15 Structural Instrumentation and Monitoring
				For the Systems/Trackwork Contract - Final Design Mitt Noise and Vibration Control Plans are required per Cont noise and vibration levels to ensure contract compliance 0.12 inches/sec for adjacent historic structures that halt c Relevant Drawings: N/A Relevant Technical Specs: 01 57 19 Environmental Miti

Comments/Notes

hange since last update

Mitigation Task Closed

tract Specifications. The City has a consultant on board who will monitor e.

se Control and 01 57 19 1.09, Vibration Control to Prevent Cosmetic Damage, fications.

k Closed r historic structures.

igation Measures

l Design Mitigation Task Closed

tract Specifications. The City has a consultant on board who will monitor e. The specifications include vibration project action levels, including one for construction when met.

igation Measures

gation Task Closed

tract Specifications. The City has a consultant on board who will monitor e. The specifications include vibration project action levels, including one for construction when met.

igation Measures

ation Task Closed

tract Specifications. The City has a consultant on board who will monitor e. The specifications include vibration project action levels, including one for construction when met.

igation Measures

tigation Task Closed

tract Specifications. The City has a consultant on board who will monitor e. The specifications include vibration project action levels, including one for construction when met.

igation Measures

Page 48 of 50

MMRP REPORTING TABLE				
DDO IECT NAME AND CASE NO	Constant Sectors and			
PROJECT NAME AND CASE NO.	Central Subway	Project		
EPM CONTACT NAME AND PHONE NO.	Lewis Ames (415	<u>) 701-4226</u>		
EPM SIGNATURE AND DATE				
SUBMITTAL DATE	09/28/12			
Monitoring and Reporting Action (from MM		Reporting Mechanism	Completed?	
Monitoring and Keporting Action (from Mini	KI Table)	Reporting Wiethanism	(Y/N/O)	
MM CNNV-1b: During construction, an acousti	ical consultant will	Check Final Engineering documents for compliance.	0	This applies to the Tunnels, to the Union Square/Mar
be retained by the contractor to prepare a more d	letailed	Monitor construction.		Moscone Subway Station, and to the Systems/Tracky
construction noise and vibration analysis to addre				For the Transle Contract, Final Design Mitigation T
staging areas, tunnel portals, cut-and-cover const underground mining and excavation operations.	truction, and			For the Tunnels Contract - Final Design Mitigation T Contract specifications require that the Contractor ha
				Noise and Vibration Mitigation Monitoring and Repo
				are setting the instrumentation to establish baseline re Plan.
				Relevant Drawings: N/A
				Relevant Technical Specs: Sections 01 57 19 1.08, C
				Contract Specifications.
				For the Union Square/Market St Station Contract
				The contractor is required to retain the services of a q analysis (identified in the specs as the "Noise and Vil
				Relevant Drawings: N/A
				Relevant Technical Specs: 01 57 19 Environmental M
				For the Chinatown Station Contract
				The contractor is required to retain the services of a q
				analysis (identified in the specs as the "Noise and Vil Relevant Drawings: N/A
				Relevant Technical Specs: 01 57 19 Environmental M
				For the Moscone Station Contract The contractor is required to retain the services of a q
				analysis (identified in the specs as the "Noise and Vit
				Relevant Drawings: N/A Relevant Technical Specs: 01 57 19 Environmental N
				Relevant Technical Spees. 01 57 19 Environmental N
				For the Systems/Trackwork Contract
				The contractor is required to retain the services of a q analysis (identified in the specs as the "Noise and Vil
				Relevant Drawings: N/A
				Relevant Technical Specs: 01 57 19 Environmental N

Comments/Notes

rket St Subway Station, to the Chinatown Subway Station, to the work Construction Contracts - No change since last update

Task Closed

ave a qualified noise and vibration consultant to develop and implement a orting Program. The 1252 Contractor has a consultant on board and they eadings in order to prepare and submit the Noise and Vibration Control

onstruction Noise Controls and 01 57 19 1.09, Vibration Control of the

qualified noise and vibration consultant to develop a noise and vibration bration Control Plan")

Mitigation Measures, 1.08D

qualified noise and vibration consultant to develop a noise and vibration bration Control Plan")

Mitigation Measures, 1.08C

qualified noise and vibration consultant to develop a noise and vibration bration Control Plan")

Mitigation Measures, 1.08

qualified noise and vibration consultant to develop a noise and vibration bration Control Plan")

Mitigation Measures, 1.08

MMRP REPORTING TABLE				
PROJECT NAME AND CASE NO.	Central Subway	Project		
EPM CONTACT NAME AND PHONE NO.	Lewis Ames (415)	0 701-4226		
EPM SIGNATURE AND DATE				
SUBMITTAL DATE	09/28/12			
Monitoring and Reporting Action (from MM	RP Table)	Reporting Mechanism	Completed?	
IM CNNV-2a: The incorporation of noise contr		Check Final Engineering documents for compliance.	(Y/N/O) O	This applies to the Tunnels, to the Union Square/Mark
such as equipment mufflers, enclosures, and barr construction as far away from sensitive receptors maintain sound reducing devices and restrictions construction period; replace noisy with quieter e schedule the noisiest construction activities to av of the day; the contractor will hire an acoustical oversee the implementation of the Noise Control Plans; prepare a Noise Control Plan; comply wit noise variance provisions; conduct periodic nois ensure compliance with the Noise Monitoring Pl equipment certified to meet specified lower nois during nighttime hours.	s as possible; s throughout quipment; void sensitive times consultant to l and Monitoring h the nighttime se measurements to lan; and use			 For the Tunnels Contract - Final Design Mitigation Ta Noise restrictions are incorporated in the specifications Plans. The 1252 Contractor has a consultant on board a order to prepare and submit the Noise and Vibration C Relevant Drawings: N/A Relevant Technical Specs: Sections 01 57 19 1.08, Con Contract Specifications. For the Union Square/Market St Station Contract The specifications include noise restrictions addressing Vibration Control Plan. This plan will address adherin Relevant Technical Specs: 01 57 19 Environmental Mit For the Chinatown Station Contract
				The specifications include noise restrictions addressing Vibration Control Plan. This plan will address adherin Relevant Drawings: N/A Relevant Technical Specs: 01 57 19 Environmental Mi For the Moscone Station Contract The specifications include noise restrictions addressing Vibration Control Plan. This plan will address adherin Relevant Drawings: N/A
				Relevant Technical Specs: 01 57 19 Environmental Mi For the Systems/Trackwork Contract The specifications include noise restrictions addressing Vibration Control Plan. This plan will address adherin Relevant Drawings: N/A Relevant Technical Specs: 01 57 19 Environmental Mi

Comments/Notes

ket St Subway Station, to the Chinatown Subway Station, to the work Construction Contracts - **No change since last update.**

Task Closed

ns. The contractor is required to develop Noise and Vibration Control d and they are setting the instrumentation to establish baseline readings in Control Plan.

onstruction Noise Controls and 01 57 19 1.09, Vibration Control of the

ng this mitigation. The contractor is also required to develop a Noise and ing to the restrictions.

Aitigation Measures, 1.08 Construction Noise Controls

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