



DRAFT ENVIRONMENTAL IMPACT REPORT

Central SoMa Plan

PLANNING DEPARTMENT
CASE NO. 2011.1356E

STATE CLEARINGHOUSE NO. 2013042070



SAN FRANCISCO
PLANNING
DEPARTMENT

Draft EIR Publication Date:	DECEMBER 14, 2016
Draft EIR Public Hearing Date:	JANUARY 26, 2017
Draft EIR Public Comment Period:	DECEMBER 14, 2016 – FEBRUARY 13, 2017

Written comments should be sent to:

Lisa M. Gibson, Acting Environmental Review Officer | lisa.gibson@sfgov.org |
1650 Mission Street, Suite 400 | San Francisco, CA 94103

DRAFT ENVIRONMENTAL IMPACT REPORT

Central SoMa Plan

PLANNING DEPARTMENT
CASE NO. 2011.1356E

STATE CLEARINGHOUSE NO. 2013042070



SAN FRANCISCO
PLANNING
DEPARTMENT

Draft EIR Publication Date:	DECEMBER 14, 2016
Draft EIR Public Hearing Date:	JANUARY 26, 2017
Draft EIR Public Comment Period:	DECEMBER 14, 2016 – FEBRUARY 13, 2017

Written comments should be sent to:

Lisa M. Gibson, Acting Environmental Review Officer | lisa.gibson@sfgov.org |
1650 Mission Street, Suite 400 | San Francisco, CA 94103

TABLE OF CONTENTS

Central SoMa Plan

Volume I: Draft EIR

	Acronyms and Abbreviations	xiii
	Summary	S-1
	Project Synopsis	S-1
	Project-Level and Program-Level Analysis	S-4
	Summary of Environmental Impacts, Mitigation Measures, and Improvement Measures	S-5
	Summary of Project Alternatives	S-55
	No Project Alternative	S-55
	Reduced Heights Alternative	S-55
	Modified TODCO Plan	S-56
	Land Use Variant	S-57
	Land Use Plan Only Alternative	S-57
	Comparison of Impacts of Alternatives	S-57
	Environmentally Superior Alternative	S-78
	Areas of Controversy and Issues to Be Resolved	S-79
CHAPTER I	Introduction	I-1
	I.A Environmental Review Process	I-1
	I.B Purpose of this EIR	I-4
	I.B.1 Program- and Project-Level Review of Potential Impacts	I-5
	I.B.2 Analysis Assumptions	I-6
	I.B.3 Alternatives to the Plan	I-6
	I.B.4 Environmental Review of Subsequent Projects	I-6
	I.C Organization of the Draft EIR	I-9
	I.D Public Participation	I-10
CHAPTER II	Project Description	II-1
	II.A Overview	II-1
	II.A.1 Plan Vision	II-1
	II.A.2 Background	II-3
	II.A.3 Plan Structure	II-5
	II.B Project Objectives	II-5
	II.C Project Location	II-6
	II.D Plan Components	II-7
	II.D.1 Land Use (Zoning) Changes	II-8
	II.D.2 Changes to Height and Bulk Limits	II-17
	II.D.3 Circulation and Streetscape Improvements	II-24

	II.D.4	Open Space and Public Realm Improvements	II-31
	II.D.5	Sustainability	II-33
	II.D.6	Street Network Changes	II-34
	II.E	Approvals Required.....	II-45
CHAPTER III	Plans and Policies		III-1
	III.A	San Francisco General Plan.....	III-1
	III.A.1	East SoMa Plan	III-4
	III.A.2	Western SoMa Plan.....	III-6
	III.A.3	Other Area Plans	III-8
	III.A.4	Other General Plan Policies	III-9
	III.B	Other Plans.....	III-13
	III.B.1	Plan Bay Area	III-13
	III.B.2	The Climate Action Plan	III-13
	III.B.3	San Francisco Bicycle Plan	III-15
	III.B.4	Better Streets Plan	III-16
	III.B.5	Transit First Policy	III-16
	III.B.6	Muni Forward (formerly the Transit Effectiveness Project, or TEP).....	III-17
	III.C	Planning Code (Zoning).....	III-18
	III.C.1	Planning Code Section 295.....	III-18
	III.C.2	Planning Code Section 321.....	III-19
CHAPTER IV	Environmental Setting, Impacts, and Mitigation Measures		IV-1
	Overview.....		IV-1
	Initial Study		IV-1
	Scope and Organization of Analysis		IV-2
	Significance Determinations.....		IV-3
	Analysis Assumptions.....		IV-4
	Cumulative Impacts		IV-10
	IV.A	Land Use and Land Use Planning	IV.A-1
	IV.A.1	Introduction	IV.A-1
	IV.A.2	Environmental Setting.....	IV.A-1
	IV.A.3	Regulatory Setting.....	IV.A-7
	IV.A.4	Impacts and Mitigation Measures	IV.A-7
	IV.A.5	Cumulative Impacts.....	IV.A-13
	IV.B	Aesthetics	IV.B-1
	IV.B.1	Introduction	IV.B-1
	IV.B.2	Environmental Setting.....	IV.B-1
	IV.B.3	Impacts and Mitigation Measures	IV.B-27
	IV.B.4	Cumulative Impacts.....	IV.B-39
	IV.C	Cultural and Paleontological Resources	IV.C-1
	IV.C.1	Introduction	IV.C-1
	IV.C.2	Environmental Setting.....	IV.C-3
	IV.C.3	Regulatory Setting.....	IV.C-46
	IV.C.4	Impacts and Mitigation Measures	IV.C-50
	IV.C.5	Cumulative Impacts.....	IV.C-68
	IV.D	Transportation and Circulation.....	IV.D-1
	IV.D.1	Introduction	IV.D-1

	IV.D.2	Environmental Setting	IV.D-1
	IV.D.3	Regulatory Framework	IV.D-20
	IV.D.4	Impacts and Mitigation Measures	IV.D-24
	IV.D.5	Cumulative Impacts	IV.D-85
IV.E		Noise and Vibration	IV.E-1
	IV.E.1	Introduction.....	IV.E-1
	IV.E.2	Environmental Setting	IV.E-1
	IV.E.3	Regulatory Framework	IV.E-9
	IV.E.4	Impacts and Mitigation Measures	IV.E-13
	IV.E.5	Cumulative Impacts	IV.E-29
IV.F		Air Quality.....	IV.F-1
	IV.F.1	Introduction.....	IV.F-1
	IV.F.2	Environmental Setting	IV.F-2
	IV.F.3	Regulatory Framework	IV.F-15
	IV.F.4	Impacts and Mitigation Measures	IV.F-20
	IV.F.5	Cumulative Impacts	IV.F-54
IV.G		Wind.....	IV.G-1
	IV.G.1	Introduction.....	IV.G-1
	IV.G.2	Environmental Setting	IV.G-1
	IV.G.3	Regulatory Framework	IV.G-3
	IV.G.4	Impacts and Mitigation Measures	IV.G-4
	IV.G.5	Cumulative Impacts	IV.G-17
IV.H		Shadow.....	IV.H-1
	IV.H.1	Introduction.....	IV.H-1
	IV.H.2	Environmental Setting	IV.H-1
	IV.H.3	Regulatory Framework	IV.H-9
	IV.H.4	Impacts and Mitigation Measures	IV.H-11
	IV.H.5	Cumulative Impacts	IV.H-40
IV.I		Hydrology (Sea Level Rise and Combined Sewer System)	IV.I-1
	IV.I.1	Introduction.....	IV.I-1
	IV.I.2	Environmental Setting	IV.I-1
	IV.I.3	Regulatory Framework	IV.I-18
	IV.I.4	Impacts and Mitigation Measures	IV.I-27
	IV.I.5	Cumulative Impacts	IV.I-31
CHAPTER V		Other CEQA Considerations.....	V-1
	V.A	Significant Environmental Effects of the Proposed Project	V-1
	V.B	Significant Environmental Effects That Cannot Be Avoided If the Proposed Project Is Implemented	V-1
	V.B.1	Land Use and Land Use Planning.....	V-1
	V.B.2	Cultural and Paleontological Resources.....	V-2
	V.B.3	Transportation.....	V-2
	V.B.4	Noise and Vibration	V-3
	V.B.5	Air Quality.....	V-3
	V.B.6	Wind.....	V-3
	V.C	Significant Irreversible Environmental Changes That Would Result If the Proposed Project Is Implemented.....	V-4

V.D Growth Inducement..... V-5

V.E Areas of Known Controversy and Issues to Be Resolved.....V-7

 V.E.1 Comments on the Notice of Preparation and Initial Study V-7

 V.E.2 Socioeconomic Considerations under CEQA..... V-7

 V.E.3 CEQA Statute Section 21099(b) V-10

 V.E.4 Senate Bill 32 V-12

 V.E.5 CBIA v. BAAQMD V-12

CHAPTER VI **Alternatives**..... **VI-1**

 VI.A Introduction VI-1

 VI.B Alternative 1: No Project..... VI-2

 VI.B.1 Description..... VI-2

 VI.B.2 Alternative 1—No Project Alternative: Impacts VI-4

 VI.C Alternative 2: Reduced Heights Alternative VI-14

 VI.C.1 Description..... VI-14

 VI.C.2 Alternative 2—The Reduced Heights Alternative: Impacts..... VI-16

 VI.D Alternative 3: Modified TODCO Plan..... VI-32

 VI.D.1 Description..... VI-32

 VI.D.2 Alternative 3—Modified TODCO Plan: Impacts..... VI-40

 VI.E Alternative 4: Land Use Variant..... VI-49

 VI.E.1 Description..... VI-49

 VI.E.2 Alternative 4—Land Use Variant: Impacts..... VI-50

 VI.F Alternative 5: Land Use Plan Only Alternative VI-58

 VI.F.1 Description..... VI-58

 VI.F.2 Alternative 5—Land Use Plan Only Alternative: Impacts VI-58

 VI.G Environmentally Superior Alternative..... VI-67

 VI.H Alternatives Considered but Rejected..... VI-68

CHAPTER VII **Report Preparers** **VII-1**

 VII.A EIR Authors VII-1

 VII.B EIR Consultants..... VII-1

 VII.C Project Sponsor VII-2

Appendices

Appendix A Notice of Preparation

Appendix B Initial Study

Appendix C Historical Resources

Appendix D Noise

Appendix E Shadow Modeling Results

Appendix F Proposed Street Network Changes Detail Drawings

Figures

Figure II-1 Central SoMa Plan Area Boundaries II-2

Figure II-2 Existing Plan Area Use Districts II-9

Figure II-3 Proposed Plan Area Use Districts II-11

Figure II-4 Generalized Zoning, Existing and Proposed Use Districts II-12

Figure II-5 Prohibition of Lot Mergers II-16

Figure II-6 Existing Plan Area Height and Bulk Districts II-18

Figure II-7 Proposed Plan Area Height and Bulk Districts II-19

Figure II-8 Generalized Height Limits, Existing and Proposed Height and Bulk Districts II-20

Figure II-9 3-D Models of Existing and Proposed Potential Building Height and Bulk II-21

Figure II-10 Sidewalk Conditions & Proposed Pedestrian Crosswalks II-25

Figure II-11 Existing and Proposed Bicycle Lane Network II-26

Figure II-12 Existing Dedicated Transit Lanes II-29

Figure II-13 Proposed Dedicated Transit Lanes II-30

Figure II-14 Existing and Proposed Parks, Open Space, and Recreational Facilities II-32

Figure II-15 Howard/Folsom One-Way Option: Existing and Proposed Number of Travel Lanes II-36

Figure II-16 Howard/Folsom Two-Way Option: Existing and Proposed Number of Travel Lanes II-37

Figure II-17 Proposed Essex Street Closure II-41

Figure III-1 Area Plans in and near the Central SoMa Plan Area III-3

Figure IV.A-1 Existing Land Uses in Plan Area IV.A-6

Figure IV.B-1 Viewpoint Location Map IV.B-2

Figure IV.B-2 View Corridors: Major Streets IV.B-4

Figure IV.B-3 View Corridors: Minor Streets/Alleys IV.B-5

Figure IV.B-4 Parks and Publicly-Accessible Open Spaces IV.B-7

Figure IV.B-5 North of Freeway Built Character IV.B-8

Figure IV.B-6 North of Freeway Built Character IV.B-9

Figure IV.B-7 South of Freeway Built Character IV.B-10

Figure IV.B-8 South of Freeway Built Character IV.B-11

Figure IV.B-9 Freeways and Ramps IV.B-14

Figure IV.B-10 Historic Districts IV.B-15

Figure IV.B-11 Parking Lots and Underutilized Spaces IV.B-17

Figure IV.B-12 Visual Simulations Location Map IV.B-18

Figure IV.B-13 Long-Range Visual Simulation: Texas Street and 19th Street: Existing Conditions Plus Plan IV.B-20

Figure IV.B-14 Long-Range Visual Simulation: Texas Street and 19th Street: Existing Conditions Plus Plan and Cumulative IV.B-21

Figure IV.B-15 Long-Range Visual Simulation: Corona Heights Park: Existing Conditions Plus Plan IV.B-22

Figure IV.B-16 Long-Range Visual Simulation: Corona Heights Park: Existing Conditions Plus Plan and Cumulative IV.B-23

Figure IV.B-17 Mid-Range Visual Simulation: Interstate 280 Sixth Street Off Ramp: Existing Conditions Plus Plan IV.B-24

Figure IV.B-18 Mid-Range Visual Simulation: Interstate 280 Sixth Street Off-Ramp: Existing Conditions Plus Plan and Cumulative IV.B-25

Figure IV.B-19 Mid-Range Visual Simulation: Interstate 80 Westbound: Existing Conditions Plus PlanIV.B-26

Figure IV.B-20 Short-Range Visual Simulation: Brannan Street and Sixth Street: Existing Conditions Plus PlanIV.B-28

Figure IV.B-21 Short-Range Visual Simulation: Fourth Street and Townsend Street: Existing Conditions Plus PlanIV.B-29

Figure IV.B-22 Short-Range Visual Simulation: Third Street and South Park Street: Existing Conditions Plus PlanIV.B-30

Figure IV.B-23 Short-Range Visual Simulation: Bryant Street at Fifth Street: Existing Conditions Plus PlanIV.B-31

Figure IV.C-1 Historic Shoreline (1853 U.S. Coast Survey Map) and Plan Area IV.C-4

Figure IV.C-2 Historical Resources in the Plan Area and Vicinity IV.C-16

Figure IV.D-1 Transportation Study Area..... IV.D-2

Figure IV.D-2 Existing Transit Network IV.D-5

Figure IV.D-3 Downtown and Regional Screenlines IV.D-8

Figure IV.D-4 Missing Curb Ramps, Closed Crosswalks, and Multiple Turning Lanes IV.D-12

Figure IV.D-5 Existing Bicycle Route Network and AM and PM Peak Hour Bicycle Volumes IV.D-14

Figure IV.D-6 Existing On-Street Parking Spaces IV.D-17

Figure IV.D-7 Existing Off-Street Parking Spaces IV.D-19

Figure IV.E-1 Noise Monitoring Results IV.E-6

Figure IV.E-2 Traffic Noise in the Central SoMa Transportation Study AreaIV.E-7

Figure IV.E-3 Land Use Compatibility Chart for Community NoiseIV.E-11

Figure IV.F-1 Air Pollutant Exposure Zone in the Plan Area and Street Network Changes IV.F-11

Figure IV.F-2 Parcels Newly Added to Air Pollutant Exposure Zone with Plan Implementation ... IV.F-47

Figure IV.F-3 Parcels Newly Added to Air Pollutant Exposure Zone with Plan Implementation (2040) IV.F-56

Figure IV.G-1 Wind Tunnel Test Areas IV.G-6

Figure IV.G-2 Wind Tunnel Test Points and Wind Speed Changes with Plan Implementation..... IV.G-8

Figure IV.G-3 Greatest Increases in Wind Speed IV.G-14

Figure IV.H-1 Open Spaces in and near Plan Area IV.H-3

Figure IV.H-2 Shadows: June 21 (Summer Solstice) 9:00 a.m. IV.H-12

Figure IV.H-3 Shadows: June 21 (Summer Solstice) 12:00 noon IV.H-13

Figure IV.H-4 Shadows: June 21 (Summer Solstice) 3:00 p.m. IV.H-14

Figure IV.H-5 Shadows: September 20 (Fall Equinox) 9:00 a.m. IV.H-15

Figure IV.H-6 Shadows: September 20 (Fall Equinox) 12:00 noon IV.H-16

Figure IV.H-7 Shadows: September 20 (Fall Equinox) 3:00 p.m..... IV.H-17

Figure IV.H-8 Shadows: December 20 (Winter Solstice) 9:00 a.m..... IV.H-18

Figure IV.H-9 Shadows: December 20 (Winter Solstice) 12:00 noon IV.H-19

Figure IV.H-10 Shadows: December 20 (Winter Solstice) 3:00 p.m. IV.H-20

Figure IV.H-11 Shadow from Plan Area Buildings on South Park, June 21 (Summer Solstice) IV.H-23

Figure IV.H-12 Shadow from Plan Area Buildings on South Park, September 20 (Fall Equinox) IV.H-24

Figure IV.H-13 Shadow from Plan Area Buildings on South Park, December 20 (Winter Solstice) ... IV.H-25

Figure IV.H-14 Shadow from Plan Area Buildings on South Park, December 20 (Winter Solstice) (continued) IV.H-26

Figure IV.H-15 Shadow from Plan Area Buildings on Victoria Manalo Draves Park and Gene Friend Recreation Center, June 21 (Summer Solstice) IV.H-27

Figure IV.H-16 Shadow from Plan Area Buildings on Victoria Manalo Draves Park and Gene Friend Recreation Center, September 20 and December 20 (Winter Solstice)..... IV.H-28

Figure IV.H-17 Shadow from Plan Area Buildings on Yerba Buena Gardens, Alice Street Community Garden, Jessie Square, Yerba Buena Lane, September 20 (Fall Equinox) IV.H-29

Figure IV.H-18 Shadow from Plan Area Buildings on Yerba Buena Gardens, Alice Street Community Garden, Jessie Square, Yerba Buena Lane, September 20 (Fall Equinox) (continued) IV.H-30

Figure IV.H-19 Shadow from Plan Area Buildings on Yerba Buena Gardens, Alice Street Community Garden, Jessie Square, Yerba Buena Lane, December 20 (Winter Solstice)..... IV.H-31

Figure IV.H-20 Shadow from Plan Area Buildings on Yerba Buena Gardens, Alice Street Community Garden, Jessie Square, Yerba Buena Lane, December 20 (Winter Solstice) (continued) IV.H-32

Figure IV.H-21 Shadow from Plan Area Buildings on Yerba Buena Gardens, Alice Street Community Garden, Jessie Square, Yerba Buena Lane, December 20 (Winter Solstice) (continue IV.H-33

Figure IV.H-22 Shadow from Plan Area Buildings on Yerba Buena Gardens, Alice Street Community Garden, Jessie Square, Yerba Buena Lane, December 20 (Winter Solstice) (continued) IV.H-34

Figure IV.I-1 Watersheds of the Bayside Drainage Basin IV.I-2

Figure IV.I-2 San Francisco Interim Floodplain Map IV.I-8

Figure IV.I-3 Inundation with 12 Inches of Sea Level Rise plus 100-Year Storm Surge IV.I-14

Figure IV.I-4 Inundation with 36 Inches of Sea Level Rise plus 100-Year Storm Surge IV.I-15

Figure VI-1 Reduced Heights Alternative Height Districts Map VI-15

Figure VI-2 Long-Range Visual Simulation: View North from Texas Street and 19th Street..... VI-17

Figure VI-3 Long-Range Visual Simulation: View East from Corona Heights Park VI-18

Figure VI-4 Mid-Range Visual Simulation: View North from Interstate 280 Sixth Street Off-Ramp VI-20

Figure VI-5 Mid-Range Visual Simulation: View West from Interstate 80 Westbound..... VI-21

Figure VI-6 Short-Range Visual Simulation: View East from Brannan Street and Sixth Street VI-22

Figure VI-7 Short-Range Visual Simulation: View North from Fourth Street and Townsend Street VI-23

Figure VI-8 Modified TODCO Plan Proposed Boundary VI-35

Figure VI-9 Modified TODCO Plan Use Districts VI-36

Figure VI-10 Modified TODCO Plan Major Development Sites VI-39

Tables

Table S-1 Summary of Impacts of the Plan—Identified in the EIR..... S-7

Table S-2 Summary of Impacts of the Plan—Identified in the Initial Study S-43

Table S-3 Comparison of the Environmental Impacts of the Plan to the Impacts of Alternatives S-58

Table II-1 Hierarchy of Planning Tools Used in the PlanII-5

Table II-2 Planning Code Use District KeyII-10

Table IV-1 Summary of Growth Projections IV-6

Table IV.C-1 Mint-Mission Historic District IV.C-24

Table IV.C-2 Potential Additions to Kearny-Market-Mason-Sutter Conservation District IV.C-26

Table IV.C-3 Updated Individually Eligible Resources from Central Soma Historic Resource Survey IN THE PLAN AREA IV.C-27

Table IV.C-4 Historic Resources with Potential of Future Landmark Status IV.C-28

Table IV.C-5 Buildings Eligible for Article 11 Reclassification..... IV.C-29

Table IV.D-1 Daily VMT per Capita—Existing Conditions IV.D-4

Table IV.D-2 Existing Sidewalk Width Compared to Better Streets Plan (BSP) Minimum and Recommended Widths..... IV.D-10

Table IV.D-3 Summary of Central SoMa Plan Area Weekday AM and PM Peak Hour Travel Demand by Mode—Existing and 2040 Cumulative Conditions IV.D-34

Table IV.D-4 Summary of Mode of Travel for Central SoMa—Weekday PM PEAK Period—Existing and 2040 Cumulative Conditions..... IV.D-35

Table IV.D-5 Average Daily VMT per Capita, Plan Bay Area Data, 2005 Baseline and 2040 (with Central SoMa Plan) Conditions IV.D-37

Table IV.D-6 Average Daily VMT per Capita, SF-CHAMP Model Data, Existing (2012) and 2040 Conditions IV.D-38

Table IV.D-7 Average Daily VMT per Capita for Central SoMa Plan Area TAZs by Land Use, Existing (2012) and 2040 Cumulative Conditions IV.D-40

Table IV.D-8 Muni Downtown Screenlines – Weekday AM and PM Peak Hours - Existing and Existing plus Plan Conditions..... IV.D-45

Table IV.D-9 Central SoMa Cordons—Weekday AM and PM Peak Hours—Existing and Existing plus Plan Conditions..... IV.D-46

Table IV.D-10 Regional Transit Screenlines—Weekday AM and PM Peak Hours—Existing and Existing plus Plan Conditions..... IV.D-48

Table IV.D-11 Muni Transit Delay Analysis—Weekday AM and PM Peak Hours—Existing plus Plan Conditions IV.D-50

Table IV.D-12 Pedestrian Crosswalk Level of Service—Weekday Midday Peak Hour—Existing and Existing plus Plan Conditions..... IV.D-58

Table IV.D-13 Pedestrian Crosswalk Level of Service—Weekday PM Peak Hour—Existing and Existing plus Plan Conditions..... IV.D-59

Table IV.D-14 Pedestrian Sidewalk Level of Service – Weekday Midday Peak Hour Existing and Existing plus Plan Conditions..... IV.D-60

Table IV.D-15 Pedestrian Sidewalk Level of Service—Weekday PM Peak Hour Existing and Existing plus Plan Conditions..... IV.D-61

Table IV.D-16 Pedestrian Corner Level of Service—Weekday Midday Peak Hour—Existing and Existing plus Plan Conditions..... IV.D-62

Table IV.D-17 Pedestrian Corner Level of Service—Weekday PM Peak Hour—Existing and Existing plus Plan Conditions..... IV.D-63

Table IV.D-18	Muni Downtown Screenlines—Weekday AM and PM Peak Hours—2040 Cumulative Conditions.....	IV.D-90
Table IV.D-19	Central SoMa Cordons—Weekday AM and PM Peak Hours—2040 Cumulative Conditions.....	IV.D-92
Table IV.D-20	Regional Transit Screenlines—Weekday AM and PM Peak Hours—2040 Cumulative Conditions.....	IV.D-94
Table IV.D-21	Pedestrian Crosswalk Level of Service—Weekday Midday Peak Hour—2040 Cumulative Conditions.....	IV.D-97
Table IV.D-22	Pedestrian Crosswalk Level of Service—Weekday PM Peak Hour—2040 Cumulative Conditions.....	IV.D-98
Table IV.D-23	Pedestrian Sidewalk Level of Service—Weekday Midday Peak Hour—2040 Cumulative Conditions.....	IV.D-99
Table IV.D-24	Pedestrian Sidewalk Level of Service—Weekday PM Peak Hour—2040 Cumulative Conditions.....	IV.D-100
Table IV.D-25	Pedestrian Corner Level of Service—Weekday Midday Peak Hour—2040 Cumulative Project Conditions.....	IV.D-101
Table IV.D-26	Pedestrian Corner Level of Service—Weekday PM Peak Hour—2040 Cumulative Conditions.....	IV.D-102
Table IV.E-1	Typical Sound Levels Measured in the Environment.....	IV.E-2
Table IV.E-2	Study Area Noise Measurements (2014).....	IV.E-5
Table IV.E-3	Previous Noise Measurements in Study Area.....	IV.E-8
Table IV.E-4	Traffic Noise Analysis Scenario Comparisons.....	IV.E-16
Table IV.E-5	Existing plus Plan Traffic Noise Analysis.....	IV.E-17
Table IV.E-6	Typical Construction Equipment Noise Levels.....	IV.E-24
Table IV.E-7	Vibration Levels for Construction Equipment.....	IV.E-28
Table IV.E-8	Cumulative Traffic Noise Analysis Scenario Comparisons.....	IV.E-29
Table IV.E-9	Cumulative plus Plan Traffic Noise Analysis.....	IV.E-30
Table IV.F-1	Summary of San Francisco Air Quality Monitoring Data (2011–2015).....	IV.F-3
Table IV.F-2	State and Federal Ambient Air Quality Standards and Attainment Status.....	IV.F-6
Table IV.F-3	Air Quality Index Statistics for the San Francisco Bay Area Air Basin.....	IV.F-8
Table IV.F-4	Annual Average Ambient Concentrations of Carcinogenic Toxic Air Contaminants Measured at BAAQMD Monitoring Station in 2015, 10 Arkansas Street, San Francisco.....	IV.F-12
Table IV.F-5	Criteria Air Pollutant Significance Thresholds.....	IV.F-24
Table IV.F-6	Consistency of the Plan with Transportation Control Measures of the 2010 Clean Air Plan.....	IV.F-29
Table IV.F-7	Operational Criteria Air Pollutant Screening for Expected Plan Area Uses.....	IV.F-35
Table IV.F-8	Average Daily Construction-Related Emissions.....	IV.F-44
Table IV.G-1	Pedestrian-Comfort Analysis.....	IV.G-10
Table IV.G-2	Hazard Analysis.....	IV.G-11
Table IV.H-1	Summary of Plan Shadow on Open Spaces.....	IV.H-22
Table IV.I-1	Sea Level Rise Estimates for San Francisco Relative to the Year 2000.....	IV.I-11
Table VI-1	Development Assumptions for Alternatives to the Central SoMa Plan.....	VI-3

[THIS PAGE INTENTIONALLY LEFT BLANK]

ACRONYMS AND ABBREVIATIONS

Central SoMa Plan

AADT	Average Annual Daily Traffic
ABAG	Association of Bay Area Governments
AC Transit	Alameda-Contra Costa Transit District
ARB	California Air Resources Board
ARDTP	Archeological Research Design and Treatment Plan
BAAQMD	Bay Area Air Quality Management District
BART	Bay Area Rapid Transit District
BCDC	San Francisco Bay Conservation and Development Commission
CAP	Clean Air Plan
CEQA	California Environmental Quality Act
CIE	Cultural/Institutional/Educational
CO	Carbon Monoxide
CO ₂	Carbon Dioxide
CU	Conditional Use
dB	Decibel
dBA	A-Weighted Decibel
DBI	San Francisco Department of Building Inspection
DEIR	Draft Environmental Impact Report
DPH	San Francisco Department of Public Health
DPM	Diesel Particulate Matter
DPR	California Department of Parks and Recreation
DPW	San Francisco Department of Public Works
EIR	Environmental Impact Report
EPA	United States Environmental Protection Agency
ERO	Environmental Review Officer (of the Planning Department)
FAR	Floor Area Ratio
FARR	Final Archeological Resources Report
GHG	Greenhouse Gas
HABS	Historic American Buildings Survey
I-80	Interstate Highway 80
L _{dn}	Day-Night Noise Level
LEED®	Leadership in Energy and Environmental Design
LOS	Level of Service (measure of traffic or other transportation operations)
mgd	Million Gallons per Day
MIPS	Management, Information, and Professional Services
MLD	Most Likely Descendant
MOMA	San Francisco Museum of Modern Art
mph	Miles per Hour
MTA	San Francisco Municipal Transportation Agency
MTC	Metropolitan Transportation Commission
MUG	Mixed-Use General

MUO	Mixed-Use Office
NAAQS	National Ambient Air Quality Standards
NAHC	California Native American Heritage Commission
NC-T	Neighborhood Commercial Transit
NEPA	National Environmental Policy Act
NO ₂	Nitrogen Dioxide
NO _x	Nitrogen Oxides
NOP	Notice of Preparation
NWIC	Northwest Information Center
OHP	State of California Office of Historic Preservation
OPR	Governor’s Office of Planning and Research
PDA	Priority Development Area
PDR	Production, Distribution, and Repair
PM	Particulate Matter
PM _{2.5}	Particulate Matter 2.5 microns or less in diameter
PM ₁₀	Particulate Matter 10 microns or less in diameter
ppb	Parts per Billion
ppm	Parts per Million
pphm	Parts per Hundred Million
RED	Residential Enclave District
ROG	Reactive Organic Gases
RSD	Residential Service District
SAAQS	State Ambient Air Quality Standards
SALI	Service, Arts, Light Industrial
SB	Senate Bill
SCH	State Clearinghouse (in the Governor’s Office of Planning and Research)
SEP	Southeast Wastewater Treatment Plant
SFBAAB	San Francisco Bay Area Air Basin
SFCTA	San Francisco County Transportation Authority
SFD	San Francisco City Datum
SFPUC	San Francisco Public Utilities Commission
SFUSD	San Francisco Unified School District
SLI	Service/Light Industrial
SLR	Service/Light Industrial/Residential
SO ₂	Sulfur Dioxide
SoMa	South of Market
SRO	Single-Room Occupancy
SSO	Service/Secondary Office
SUD	Special Use District
TACs	Toxic Air Contaminants
TB-DTR	Transbay Downtown Residential
TDM	Transportation Demand Management
TDR	Transferrable Development Rights
TIDF	Transit Impact Development Fee
TOG	Total Organic Gases
v/c ratio	Volume-to-Capacity Ratio
µg/m ³	Micrograms per Cubic Meter