TABLE OF CONTENTS

1. INTRODUCTION 1
1.1 Purpose 1
1.2 Land Use Program 1
1.3 Infrastructure Plan Overview 2
1.4 Developers Obligation 2
1.5 Property Acquisition, Dedication, and Easements 2
1.6 Project Datum 3
1.7 Conformance with EIR/EIS & Entitlements 3
1.8 Applicability of Uniform Codes and Infrastructure Standards 3
1.9 Master Utility Plans 3
1.10 Project Phasing 3
1.11 Phases of Infrastructure Construction 4
1.12 Operation and Maintenance 5
1.13 Companion Documents 5
2. SUSTAINABILITY 6
2.1 Sustainable Infrastructure 6
3. SITE DEMOLITION 8
3.1 Scope of Demolition 8
3.2 Phases of Demolition 8
4. GEOTECHNICAL CONDITIONS 9
4.1 Existing Site Geotechnical Conditions 9
4.2 Existing Site Geotechnical Constraints 9
4.3 Site Grading 10
4.4 Foundations 10
4.5 Stormwater Infiltration 10
4.6 Geotechnical Approaches 10
4.6.1 Site Grading Approach 10
4.6.2 Foundation Approach 10
4.6.3 Stormwater infiltration Approach 10
4.7 Schedule for Additional Geotechnical Studies 11

DRAFT

5. SITE GRADING 12
5.1 Project Datum 12
5.2 Existing Site Conditions 12
5.3 Site Geotechnical Constraints and Approaches 12
5.4 Project Grading Overview 13
5.5 Proposed Grading Designs 13
5.5.1 Building Areas 13
5.5.2 Proposed Roadways 13
5.5.3 Overland Release 14
5.6 Proposed Site Earthwork 14
5.7 Cut/Fill Quantities 14
5.8 Phases of Grading Activities and Approvals 14
6. STREET, MOBILITY AND CIRCULATION DESIGNS 15
6.1 Design Controls: Plan Overview 15
6.2 Public Street System 15
6.2.1 Public Street Layout and Parcelization 16
6.2.2 Roadway Dimensions 16
6.3 Public Street Modes of Travel and Access 17
6.3.1 Pedestrian Circulation and Accessibility 17
6.3.2 Vehicular Circulation and Intersections 17
6.3.3 Bicycle Circulation 17
6.3.4 Loading, Servicing, and Parking 17
6.3.5 Fire Department Access 18
6.4 Public Street Network and Hierarchy 18
6.4.1 Street Zones and Designs 19
6.5 Components of Public Streets 19
6.5.1 Curb Heights 19
6.5.2 Paving 19
6.5.3 Street Trees 20
6.5.4 Sustainable Water Strategies 20
6.5.5 Lighting 20
6.5.6 Accessible Loading 21
6.5.7 Driveway and Streetscape Coordination 21

DRAFT

6.6 Private Streets 21
6.7 Traffic Calming 21
6.7.1 Raised Mid-Block Crosswalks 21
6.7.2 Street Chicane 22
6.7.3 Intersection Bulb-Outs 22
6.8 Off-Site Traffic Signalization 23
6.8.1 Frida Kahlo Way and North Street 23
6.9 On-Site Traffic Controls 23
6.10 Public Transportation System 23
6.11 SFMTA Infrastructure 23
6.12 Acceptance and Maintenance of Street Improvements 24
6.13 Phasing of New Roadway Construction 24
7. OPEN SPACE AND PARKS 25
7.1 Open Space 25
7.1.1 Reservoir Park 25
7.1.2 PUC Open Space 25
7.1.3 Brighton Paseo 25
7.1.4 Gateway Landscape 25
7.1.5 San Ramon Paseo 25
7.1.6 West Street North Paseo 25
7.1.7 West Street South Paseo 25
7.2 Proposed Open Space and Parks to be built by Developer 25
7.3 Phasing, Ownership, Operation, and Maintenance 26
8. UTILITY LAYOUT AND SEPARATION 27
8.1 Utility Systems 27
8.2 Utility Layout and Separation Criteria 27
8.3 Conceptual Utility Layout 27
8.4 Utility Layout and Clearance Design Modifications and Exceptions 27
8.4.1 Design Modification or Exception #1 28
9. LOW PRESSURE WATER SYSTEM 29
9.1 Existing Low Pressure Water System 29
9.2 Proposed Low Pressure Water System 29
9.2.1 Project Water Supply 29

DRAFT

9.2.2 Project Water Demands 29
9.2.3 Project Water Distribution System 30
9.2.4 Low Pressure Water Design Criteria 30
9.2.5 Proposed Fire Hydrant Locations 30

10. NON-POTABLE WATER SYSTEM 32
10.1 Existing Recycled Water System 32
10.2 Proposed Non-Potable Water System 32
10.2.1 Project Demands 32
10.3 Rainwater Harvesting 32

11. AUXILIARY WATER SUPPLY SYSTEM (AWSS) 33
11.1 Existing AWSS Infrastructure 33
11.2 AWSS Regulations and Requirements 33
11.3 Conceptual AWSS Infrastructure 33
11.3.1 Proposed AWSS Infrastructure 33

12. COMBINED SEWER SYSTEM 35
12.1 Existing Combined Sewer 35
12.1.1 Existing Conditions on Ocean Avenue and Frida Kahlo Way 35
12.1.2 Existing Drainage Area 35
12.1.3 Existing Sewer Demands 35
12.1.4 Existing Combined Sewer System 35
12.2 Proposed Combined Sewer System 35
12.2.1 Proposed Combined Sewer Demands 35
12.2.2 Proposed Combined Sewer Capacity and Design Criteria 36
12.2.3 Proposed Combined Sewer System 36
12.2.4 Pipe Material 36
12.2.5 Freeboard and Cover 36
12.2.6 Combined Sewer Construction and Phasing 36

13. STORMWATER MANAGEMENT SYSTEM 37
13.1 Existing Stormwater Management System 37
13.2 Proposed Stormwater Management System 37
13.2.1 San Francisco Stormwater Management Requirements and Design Guidelines ... 37
13.2.2 Proposed Site Conditions and Baseline Assumptions 37

DRAFT

13.2.3 Stormwater Management Design Concepts 38
13.3 Stormwater Control Plan 38
13.4 Phases for Stormwater Management System Construction 39
14. DRY UTILITY SYSTEMS 41
14.1 Existing Dry Utility Systems 41
14.1.1 Electric 41
14.1.2 Natural Gas 41
14.1.3 Communications 41
14.2 Project Power Providers and Requirements 41
14.3 Proposed Joint Trench 42
14.4 Street Lights 42
14.5 Public Utility Easements 43
14.6 Phases for Dry Utility Systems Construction 43

DRAFT