


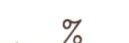





**LEGEND**

-  SECTION/DETAIL IDENTIFICATION REFERENCE DRAWING NO.
-  PROPERTY LINE
-  DIRECTION OF DRAINAGE FLOW
-  EXISTING(E) SLOPE/ NEW(N) DESIGN SLOPE (X.XX%)
-  XX.XX' PROVIDE ALL DIMENSIONS AND ELEVATIONS IN DECIMAL FEET
-  (E) EXISTING(E) ELEVATION- NO CHANGE DECIMAL FEET (XX.XX')
-  (N) NEW(N) DESIGN ELEVATION DECIMAL FEET (XX.XX')

**ABBREVIATIONS**

- C = CURB
- (E) = EXISTING
- TC = TOP OF CURB
- FL = FLOW LINE
- G = GUTTER
- (N) = NEW
- PL = PROPERTY LINE
- TYP. = TYPICAL
- EL = ELEVATION

**SUBMITTAL REQUIREMENTS (REFERENCE SHEET DETAIL A ON ABE-3)**

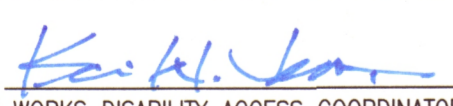
- A. FOR WORK INCLUDING ALTERATION OF SIDEWALK, SUBMIT PERMIT APPLICATION FORM AND PLANS TO OVER THE COUNTER (OTC) INTAKE 1660 MISSION STREET, TO BE ROUTED TO DPW-BSM FOR REVIEW.
- B. ALL ROADWAY, SIDEWALK AND CURB RAMP GRADING PLANS SHALL BE PROVIDED USING STANDARD ENGINEERING SCALES. ALL PROVIDED ELEVATIONS AND DIMENSIONS SHALL BE IN PROVIDED IN DECIMAL FEET, ROUNDED TO THE NEAREST ONE HUNDRETH OF ONE FOOT. (XX.XX FEET)
- C. ALL PROVIDED GRADES AND SPOT ELEVATIONS SHALL BE PROVIDED USING POSITIVE NUMBERS ONLY, WITH HIGHER ELEVATIONS USING NUMBERS LARGER THAN LOWER ELEVATIONS. ZERO ELEVATION POINT CHOSEN FOR EACH SURVEY AREA MUST BE AT OR BELOW THE LOWEST ELEVATION POINT WITHIN THE AREA OF WORK. SURVEY AREAS MUST EXTEND AT LEAST THREE FLAGS (APPROXIMATELY 10 FEET) BEYOND THE PROJECTED PROPERTY LINE AT ADJACENT BUILDINGS OR FACILITIES. SURVEY AREAS MUST EXTEND BEYOND THE FACE OF CURB AT LEAST 6 FEET INTO THE ROADWAY.
- D. SIDEWALK SURFACE CROSS-SLOPES SHALL BE MEASURED PERPENDICULAR TO THE CURB TO THE BACK OF CURB, NOT THE FACE OF CURB. TYPICAL CURB WIDTH IS 6 INCHES. LABEL ACTUAL CURB WIDTH(S).
- E. SLOPE ARROWS SHALL BE PROVIDED BETWEEN EACH ADJACENT PAIR OF SPOT ELEVATIONS FOR RUNNING GRADE AND CROSS-SLOPE DIRECTIONS. SLOPE ARROWS SHALL POINT IN THE DIRECTION OF THE LOWER ELEVATION (DOWNHILL). SURFACE RUNNING GRADE SLOPE AND CROSS-SLOPE SHALL BE LABELED IN PERCENT SLOPE, ROUNDED TO THE NEAREST ONE HUNDRETH OF ONE PERCENT (XX.XX%).
- F. SIDEWALK CROSS-SLOPES SHALL BE MEASURED PERPENDICULAR TO THE CURB TYPICALLY. RUNNING GRADE SLOPES SHALL BE MEASURED PARALLEL TO THE CENTERLINE OF THE STREET TYPICALLY.
- G. INDICATE, LABEL AND DIMENSION TO THE PROPERTY LINE(S) AND DIMENSION TO FACE OF BUILDING, FACE OF CURB, AND OTHER STRUCTURES.
- H. INDICATE, LABEL AND DIMENSION SIDEWALK WIDTH TO FACE OF CURB AND WIDTH OF CURB.
- I. INDICATE, LABEL AND DIMENSION ENTRANCE(S) TO BE MADE ACCESSIBLE OR THAT ARE ACCESSIBLE.
- J. INDICATE, LABEL AND DIMENSION ENTRANCE(S) AND EXITS THAT ARE NOT ACCESSIBLE. AT STAIRS, INDICATE THE SPOT ELEVATIONS WHERE THE STAIR MEETS THE SIDEWALK AT EACH SIDE OF THE STAIR. INDICATE THE HEIGHT OF THE LOWEST STAIR RISER (OR STEP) AT EACH SIDE OF THE STAIR (OR STEP). PROVIDE THE AVERAGE RISER HEIGHT OF THE FLIGHT OF STAIRS CONNECTED TO THE SIDEWALK.
- K. INDICATE, LABEL AND DIMENSION TREE WELLS, LANDSCAPED AREAS, SIDEWALK BENCHES OR OTHER SEATING, BUS SHELTERS, FIRE HYDRANTS, UTILITY POLES, GUY WIRES, UTILITY VAULTS, UTILITY ACCESS COVERS, SUB-SIDEWALK ACCESS HATCHES, BIKE RACKS, ARTWORK, UTILITY CABINETS, BOLLARDS, TRAFFIC SIGNS, CURB RAMPS, RAILINGS, ETC.
- L. INDICATE, LABEL AND DIMENSION PROTRUSIONS INTO AREAS ACCESSIBLE TO THE PUBLIC FROM BUILDINGS OR STRUCTURES INCLUDING BUT NOT LIMITED TO FIRE DEPARTMENT CONNECTIONS, SIGNS, AWNINGS, CANOPIES, OPERABLE WINDOWS, DOOR AND GATE SWINGS, ETC.
- M. INDICATE, LABEL AND DIMENSION THE VERTICAL CLEARANCES ABOVE EXISTING AND NEW SIDEWALK SURFACES TO OVERHANGING OR PROTRUDING OBJECTS, INCLUDING BUT NOT LIMITED TO FIRE DEPARTMENT CONNECTIONS, SIGNS, AWNINGS, CANOPIES, OPERABLE WINDOWS, DOOR AND GATE SWINGS, TREE LIMBS, LEANING TREE TRUNKS ETC.
- N. INDICATE, LABEL AND DIMENSION EXISTING OR PROPOSED PERMITTED SIDEWALK MERCHANDISE DISPLAY AREAS AND PERMITTED SIDEWALK TABLES AND CHAIRS AREAS.
- O. INDICATE, LABEL AND DIMENSION EXISTING OR PROPOSED MAJOR OR MINOR SIDEWALK ENCROACHMENTS.
- P. INDICATE, LABEL AND DIMENSION EXTENT OF EXISTING OR PROPOSED SUB-SIDEWALK BASEMENT OR VAULTS.
- Q. INDICATE, LABEL AND DIMENSION EXTENT OF EXISTING OR PROPOSED PARKING METERS, BUS STOPS, PASSENGER LOADING ZONES (WHITE CURB), ACCESSIBLE PARKING SPACES (BLUE CURB), COMMERCIAL LOADING ZONES (YELLOW CURB) AND RED CURB AREAS.
- R. IDENTIFY ALL EXISTING SPOT ELEVATIONS WITH "(E)" AND ALL NEW SPOT ELEVATIONS WITH "(N)".




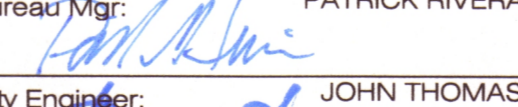

**GENERAL NOTES**

- G1. THIS STANDARD IS DEVELOPED AND ADOPTED BY PUBLIC WORKS PURSUANT TO BOARD OF SUPERVISORS ORDINANCE 51-16: MANDATORY DISABILITY ACCESS IMPROVEMENTS TECHNICAL SPECIFICATIONS GUIDELINES.
- G2. IN ACCORDANCE WITH CALIFORNIA BUILDING CODE AND ADA REQUIREMENTS FOR NEW CONSTRUCTION AND ALTERATIONS, AND PUBLIC RIGHTS-OF-WAY ACCESSIBILITY GUIDELINES (PROWAG) R202.3 STATES FOR ALTERATIONS "WHERE EXISTING ELEMENTS, SPACES, OR FACILITIES ARE ALTERED, EACH ALTERED ELEMENT, SPACE, OR FACILITY WITHIN THE SCOPE OF THE PROJECT SHALL COMPLY WITH THE APPLICABLE REQUIREMENTS FOR NEW CONSTRUCTION." NOTE THAT FOR ALTERATIONS, IT MAY NOT BE TECHNICALLY FEASIBLE TO MEET ALL OF THE ACCESSIBILITY REQUIREMENTS. FOLLOW NEW CONSTRUCTION PROVISIONS TO THE EXTENT TECHNICALLY FEASIBLE. PROJECTS INVOLVING EXISTING STREETS AND SIDEWALKS MAY BE FURTHER CONSTRAINED BY LIMITED SPACE AND RIGHT-OF-WAY AVAILABILITY, UNDERLYING TERRAIN, UNDERGROUND STRUCTURES, DRAINAGE, AND OTHER FACTORS. THE GUIDELINES ALLOW DEPARTURES FROM NEW CONSTRUCTION CRITERIA IN ALTERATIONS WHERE EXISTING PHYSICAL CONSTRAINTS MAKE COMPLIANCE IMPRACTICABLE.
- G3. ALL WORK SHALL CONFORM TO SF PUBLIC WORKS STANDARD PLANS AND SPECIFICATIONS, LATEST VERSIONS.
- G4. A SITE SURVEY IS MANDATORY AND SHALL BE USED FOR HORIZONTAL AND VERTICAL CONTROL ON SITE GRADING PLANS. THE SITE SURVEY MAY BE RELATIVE OR TO CITY DATUM.
- G4. IN ACCORDANCE WITH PUBLIC WORKS ORDER NO. 187,005- REGULATIONS FOR EXCAVATING AND RESTORING STREETS IN SAN FRANCISCO, THE CONTRACTOR SHALL REFERENCE AND PRESERVE ANY EXISTING MONUMENTS WITHIN 20' OF THE LIMITS OF WORK. A CORNER RECORD OR RECORD OF SURVEY SHALL BE FILED WITH THE COUNTY SURVEYOR PURSUANT TO THE CALIFORNIA BUSINESS AND PROFESSIONS CODE, SECTION 8771, PRIOR TO ANY WORK COMMENCING. IF ANY MONUMENT IS DESTROYED, DAMAGED, COVERED, OR OTHERWISE OBLITERATED, THE CONTRACTOR SHALL RESET SAID MONUMENT AS REQUIRED AND MANDATED IN PUBLIC WORKS DOCUMENT "MONUMENT PRESERVATION." A COPY OF THIS DOCUMENT MAY BE OBTAINED FROM THE OFFICE OF THE COUNTY SURVEYOR, 1155 MARKET STREET, 3RD FLOOR, SAN FRANCISCO, CA 94103, TELEPHONE: 415-554-5810.
- G5. EXISTING UTILITY BOXES AND COVERS SHALL BE ADJUSTED TO BE FLUSH WITH SIDEWALK AND SHALL NOT STRADDLE ANY CHANGE IN PLANE. CONTACT UTILITY OWNER FOR INSTRUCTIONS ON PROPER ADJUSTMENT OF AT-GRADE FACILITIES.
- G6. POSITIVE DRAINAGE IS REQUIRED TO DRAIN SURFACE WATER ON SIDEWALKS AWAY FROM PROPERTY LINES AND BUILDINGS TO THE STREET OR OTHER STORMWATER CONVEYANCE OR STORAGE.
- G7. WHERE DRAINAGE IS HANDLED BY A CURB INLET IN LIEU OF A CATCH BASIN, PUBLIC WORKS HYDRAULICS ENGINEERING SHALL BE CONSULTED IF EXISTING CURB INLETS WILL BE AFFECTED BY PROPOSED DESIGN.
- G8. BASE RECONSTRUCTION IS REQUIRED WHEN THE OUTSIDE CONCRETE GUTTER OR ASPHALT ROADWAY ELEVATION IS LOWERED MORE THAN 1/2-INCH OR RAISED MORE THAN 2-INCHES WHERE EXISTING ACWS IS STANDARD 2-INCH THICK.
- G9. CONFORM BETWEEN EXISTING ELEVATIONS AND NEW SIDEWALK IN AFFECTED AREA. CONFORM MAY REQUIRE ADDITIONAL CURB AND SIDEWALK BEYOND END OF PROPOSED PROPERTY LINES. EXISTING SIDEWALK FLAGS IMMEDIATELY ADJACENT TO SIDEWALK AND CURB AREA TO BE REPLACED, EXCEPT OVER SUB-SIDEWALK BASEMENTS, SHALL BE REMOVED TO NEAREST FLAG LINES (CONTROL JOINTS) TO ENSURE THAT SIDEWALK WILL CONFORM SMOOTHLY WITHOUT ABRUPT CHANGES IN SLOPE. EXTENDED GUTTER MAY BE NECESSARY DEPENDING ON SLOPE.
- G10. SF PUBLIC WORKS STANDARD CURB HEIGHT IS 0.50 FEET (6 INCHES). IN ORDER TO ACHIEVE ACCESSIBILITY WITHIN EXISTING SIDEWALKS IT MAY BE ALLOWABLE ON A CASE BY CASE BASIS TO USE A CURB HEIGHT RANGE OF 0.33 TO 0.60 FEET (4 TO 7.2 INCHES) WHERE THERE IS CURBSIDE ACCESS TO VEHICLES. WITHIN CROSSWALK AREAS THE MAXIMUM ALLOWABLE CURB HEIGHT IS 0.58 FEET (7 INCHES). CURB HEIGHT LESS THAN 6 INCHES MAY REQUIRE REVIEW BY SF PUBLIC WORKS HYDRAULICS SECTION MANAGER, ESPECIALLY IN LOW SLOPE AREAS SUBJECT TO FLOODING. CURB HEIGHT OVER 0.60 FEET MAY BE ALLOWABLE WHERE THERE IS NO PARKING (RED CURB OR POSTED "NO PARKING"), AT BUS STOPS AND COMMERCIAL LOADING ZONES (YELLOW CURB).
- G11. IT MAY BE REQUIRED TO ALTER CURB HEIGHT (PER GENERAL NOTE G1) PRIOR TO ALLOWING AN INCREASE OF SIDEWALK CROSS SLOPE (CONSTRUCTED) OVER 2.08% (1:48) IN SOME OR ALL SIDEWALK ZONES. THIS IS ESPECIALLY TRUE AT BUS STOPS, ACCESSIBLE PASSENGER LOADING ZONES (WHITE CURB), AND ACCESSIBLE STREET PARKING SPACES (BLUE CURB).
- G12. THE STREET GUTTER SHALL BE DESIGNED TO DRAIN SURFACE WATER IN THE DIRECTION OF THE STREET GRADE OR TO THE NEAREST STORM WATER CATCH BASIN, DRAIN INLET, OR BIoretention BASIN, PER BEST ENGINEERING PRACTICES AND AS DETERMINED BY PUBLIC WORKS HYDRAULICS ENGINEERING.
- G.13 INFORMATION RELATED TO BUREAU OF STREET USE AND MAPPING PERMITS CAN BE LOCATED THROUGH THE FOLLOWING LINK: [HTTP://SFPUBLICWORKS.ORG/SERVICES/PERMITS](http://sfpublicworks.org/services/permits).
- G14. FRONTAGE ZONE: THE AREA ADJACENT TO THE PROPERTY LINE WHERE TRANSITIONS BETWEEN THE PUBLIC SIDEWALK AND THE SPACE WITHIN BUILDINGS OCCUR.
- G15. PEDESTRIAN THROUGHWAY ZONE: THE PORTION OF THE SIDEWALK FOR PEDESTRIAN TRAVEL ALONG THE STREET.
- G16. FURNISHING ZONE: THE PORTION OF THE SIDEWALK USED FOR STREET TREES, LANDSCAPING, TRANSIT STOPS, STREET LIGHTS, AND SITE FURNISHINGS.
- G.17 EDGE ZONE: THE AREA USED BY PEOPLE GETTING IN AND OUT OF VEHICLES PARKED AT THE CURBSIDE.
- G.18 EXTENSION ZONE: THE AREA WHERE PEDESTRIAN SPACE MAY BE EXTENDED INTO THE PARKING LANE, VIA FEATURES SUCH AS BULB-OUTS WITH MID-BLOCK PLAZAS.

THESE CITY STANDARD PLAN SHEETS ARE INTENDED FOR USE AS GUIDELINES FOR ALTERATIONS TO EXISTING FACILITIES, ASSISTING WITH THE DESIGN OF ACCESSIBLE ENTRANCES AND ENTRANCE WAYS TO PRIVATE PROPERTY FROM THE PUBLIC SIDEWALK. THE GUIDELINES DETAIL METHODS AND TOLERANCES FOR ALTERING THE EXISTING AND NATURAL GRADES OF THE PUBLIC SIDEWALK AND RIGHT OF WAY, WHICH IS REFERRED TO AS SIDEWALK WARPING. AN ENCROACHMENT PERMIT FROM THE SAN FRANCISCO PUBLIC WORKS WILL TYPICALLY BE REQUIRED TO DOCUMENT AND RECORD SIDEWALK WARPING. MODIFICATIONS TO THE PUBLIC RIGHT OF WAY SHALL NOT BE THE PRIMARY MEANS OF PROVIDING ACCESSIBLE ACCESS TO BUILDING AND PROPERTY ENTRANCES.

EACH PROPOSED SIDEWALK IMPROVEMENT PERMIT THAT PROPOSES SIDEWALK WARPING WILL BE REVIEWED FOR CONFORMANCE WITH THIS STANDARD AND OTHER APPLICABLE LOCAL, STATE, AND FEDERAL REGULATIONS INCLUDING BUT NOT LIMITED TO THE CALIFORNIA BUILDING CODE AND THE 2010 ADA STANDARDS FOR ACCESSIBLE DESIGN.

APPROVED:   
 PUBLIC WORKS DISABILITY ACCESS COORDINATOR  
 EFFECTIVE DATE: January 1, 2019

				 <p><b>BUREAU OF DESIGN &amp; ENGINEERING</b>                  CITY &amp; COUNTY OF SAN FRANCISCO                  SAN FRANCISCO PUBLIC WORKS                  30 VAN NESS AVENUE, 5TH FLOOR                  SAN FRANCISCO, CA 94102 - 8028</p>		<p>Acting Section Mgr:  ERIC KJELSBERG                  Bureau Mgr:  PATRICK RIVERA                  City Engineer:  JOHN THOMAS</p>		<p>DESIGNED: DATE: 12/18                  PUBLIC WORKS</p> <p>DRAWN: DATE: 12/18                  PUBLIC WORKS</p> <p>CHECKED: DATE: 12/18                  PUBLIC WORKS</p>		<p>SCALE: NOT TO SCALE</p> <p>SHEET OF SHEETS: 2 OF 4</p>		<p><b>ACCESSIBLE BUSINESS ENTRANCE PROGRAM</b>                  ALTERATION STANDARD FOR SIDEWALKS                  AT ENTRANCES TO EXISTING FACILITIES</p>		<p>CONTRACT NO. NONE                  DRAWING NO. ABE-2                  FILE NO. 112,443                  REV. NO.</p>									
<p>REFERENCE INFORMATION &amp; FILE NO. OF SURVEYS</p>				<p>TABLE OF REVISIONS</p> <table border="1"> <thead> <tr> <th>NO.</th> <th>DATE</th> <th>DESCRIPTION</th> <th>BY</th> <th>APP.</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table>		NO.	DATE	DESCRIPTION	BY	APP.						<p>LEGEND, ABBREVIATIONS, GENERAL NOTES AND SUBMITTAL REQUIREMENTS</p>							
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