



PUBLIC WORKS DEPARTMENT
Timm Borden, Director

CITY HALL
10300 TORRE AVENUE ~ CUPERTINO, CA 95014-3266
(408) 777-3354 ~ FAX (408) 777-3333

ADDENDUM NO. 1
2018/19 Reconstruction of Curbs, Gutters and Sidewalks
BID OPENING: July 10, 2018
2:00 P.M.

ISSUED DATE: July 5, 2018
Engineer's Estimate \$1,400,000

The following revisions are hereby made to the above referenced project.

1. Replace Pages 12-13 Bid Schedule with revised pages 12-13 Bid Schedule attached to this addendum. Bid item quantities have been revised.
2. Replace pages 89-90 Special Conditions with revised pages 89-90 Special Conditions attached to this addendum. Paragraph 5 has been revised.
3. Replace pages 96-105 Technical Specifications with revised pages 96-105 attached to this addendum.
4. Replace Caltrans Standard Detail A88A with revised Detail A88A attached to this addendum. Pay items have been illustrated.
5. A partial list of work locations is provided for reference only.

All questions regarding this project must be transmitted in writing to Jo Anne Johnson, Public Works Project Manager. Fax number is 408-777-3333 and email address is joannej@cupertino.org.

Please indicate receipt of this addendum on the last page of the Proposal. Failure to do so may cause rejection of your bid.

APPROVED BY:

Timm Borden
Director of Public Works

Bidder's Name: _____

Bid Schedule

This Bid Schedule must be completed in ink and included with the sealed Bid Proposal. Pricing must be provided for each Bid Item as indicated. Items marked "(SW)" are Specialty Work that must be performed by a qualified Subcontractor. The lump sum or unit cost for each item must be inclusive of all costs, whether direct or indirect, including profit and overhead. The sum of all amounts entered in the "Extended Total Amount" column must be identical to the Base Bid price entered in Section 1 of the Bid Proposal Form.

LS = Lump Sum EA = Each LF = Linear Foot CF = Cubic Feet CY = Cubic Yard
 SY=Square Yard SF = Square Feet LB = Pounds TON = Ton (2000 lbs) AL = Allowance

BID ITEM NO.	ITEM DESCRIPTION	EST. QTY.	UNIT	UNIT COST	EXTENDED TOTAL AMOUNT
1	Remove and Replace Sidewalk	25,700	SF	\$	\$
2	Remove and Replace Driveway	9,200	SF	\$	\$
3	Remove and Replace Curb and Gutter (Detail 1-16 Type A2-6 or Type E)	3,220	LF	\$	\$
4	Remove Park Strip Improvements	5,300	SF	\$	\$
5	Remove Median Island Flat Work	100	SF	\$	\$
6	Valley Gutter	1500	SF	\$	\$
7A	Depressed Curb Ramp (Caltrans Type A)	17	EA	\$	\$
7B	Depressed Curb Ramp (Caltrans Type B)	29	EA	\$	\$
7C	Depressed Curb Ramp (Caltrans Type C)	32	EA	\$	\$
7D	Depressed Curb Ramp (Caltrans Type D)	1	EA	\$	\$
7E	Depressed Curb Ramp (Caltrans Type E)	1	EA	\$	\$
7F	Depressed Curb Ramp (Caltrans Type F)	30	EA	\$	\$
7G	Depressed Curb Ramp (Caltrans Type G)	1	EA	\$	\$
8	Upgrade Existing Ramp	7	EA	\$	\$
9	Retaining Curb	1800	LF	\$	\$
10	Root Barriers	5	EA	\$	\$
11	Median Island Curb	100	LF	\$	\$
18	Asphalt Replacement	300	TON	\$	\$

TOTAL BASE BID: Items 1 through _____ inclusive: \$ _____

Note: The amount entered as the "Total Base Bid" should be identical to the Base Bid amount entered in Section 1 of the Bid Proposal form.

BIDDER NAME: _____

Bidder's Name: _____

END OF BID SCHEDULE

Special Conditions

1. Existing Equipment.

1.1 Contractor will carefully remove all existing equipment from the Worksite. If the City specifies or indicates that equipment is to be salvaged and reused or to remain the property of City then the Contractor will reuse or return the equipment to the City. Contractor will store and protect salvaged equipment specified to be reused in the Work. Contractor will delivery to the City in good condition the equipment that is to remain City property but not be reused in the Work.

1.2 If an item specified to be salvaged is damaged during its removal, storage, or handling through carelessness or improper procedures, then Contractor will replace that equipment in kind or with a new item. For those items specified to be salvaged Contractor may choose to instead furnish and install new equipment, in which case the original, removed items will become Contractor's property. Existing materials and equipment removed by Contractor will only be reused in the Work if so specified or indicated by the City.

2. Insurance Requirements.

The insurance requirements under Section 4.3 are modified for this Contract, as set forth below. Except as expressly stated below, all other provisions in Section 4.3 are unchanged and remain in full force and effect.

3. Work Days and Hours.

Work hours and noise pose a special concern for projects in residential neighborhoods. The City is very concerned for its residents and will diligently enforce the restrictions below.

3.1 Work Hours. 7:00 a.m.-5:00 p.m. local time, weekdays, 9:00 a.m. – 5:00 p.m. on Saturdays, 9:00 – 4:00 p.m. Sundays.

3.2 Authorized Work Hours. Except as expressly authorized in writing by City, Contractor is limited to performing Work on the Project during the following hours:

8:00 AM – 5 PM

3.3 Worker Arrival and Parking. Workers may arrive at the Worksite no earlier than 7:00 a.m. **Violations of these requirements will result in a \$3,000 dollar penalty to Bidder/Contractor, per occurrence.**

3.4 Equipment and Material Delivery and Off-Haul Hours. No equipment or material may be delivered or off-hauled except between the hours of 7:00 a.m. and 5:00 p.m. No equipment that has a safety back up beeper may be operated before 7:00 a.m. on any day. Contractor shall comply with Cupertino Municipal Code Chapter 11.32 "Truck Traffic Restrictions".

3.5 Work Days Only. Work will only be performed on Work Days, as defined in the General Conditions, unless Contractor requests otherwise from City in writing at least 2 working days in advance, and City approves the request in its sole discretion. In the case of Work by Contractor after normal working hours,

3.6 Connections to Existing Facilities. Unless otherwise specified or indicated, Contractor will make all necessary connections to existing facilities, including structures,

drain lines, and utilities such as water, sewer, gas, telephone, and electric. In each case, Contractor will receive permission from City or the owning utility prior to undertaking connections and coordinate as needed to accommodate the facilities operations. Contractor will protect facilities against deleterious substances and damage.

3.7 Noise Limitation. No non-construction noise will be allowed, this includes amplified music, radio or other noise not due to construction activities.

- 4. SUBMITTALS FOR QUALITY ASSURANCE.** In the Technical Specifications, the City may specify quality assurance requirements, including qualifications for special skills and experience required of the Contractor. For any specified skill, the Contractor may use a subcontractor that specializes in the work and meets the performance requirements or the Contractor may self-perform the work, subject to demonstrating the necessary skill, experience, and/or certifications to perform the work.

The Contractor will submit verification that the materials and labor skills meet the specified requirements prior to implementing the specific work through the submittal process.

5. Lines and Grades Verification

All Work must be done to the lines, grades, and elevations indicated on the Drawings and Specifications, and in accordance with all applicable codes and laws. Contractor is required to verify forms and other work comply with lines, grades and elevations. Contractor must check forms in the presence of the City's Project Inspector. This verification does not remove any responsibility of the contractor to correct work that does not meet project requirements or applicable regulations.

- 6. Pre-Construction Conference.** City will designate a date and time for a pre-construction conference with Contractor following Contract execution. Project administration procedures and coordination between City and Contractor will be discussed, and Contractor must present City with the following information or documents at the meeting for City's review and acceptance before the Work commences:

- ___1 Name, 24-hour contact information, and qualifications of the proposed on-site superintendent;
- ___2 List of all key Project personnel and their complete contact information, including email addresses and telephone numbers during regular hours and after hours;
- ___3 Submittals

END OF SPECIAL CONDITIONS

TECHNICAL SPECIFICATIONS

PART 1 – GENERAL

1.01 DESCRIPTION

The work to be done is maintenance type work and consists, in general, of the removal and replacement of existing portland cement concrete curb & gutters, sidewalks, driveway approaches, accessible ramps, median curbs, asphalt replacement adjacent to portland cement concrete work, flat work, and tree root barriers, as required. The work may also include the removal and replacement of valley gutters, installation of new accessible curb ramps and median island flatwork as noted.

The majority of the work consists of removal and replacement of portland cement concrete curb & gutter and sidewalk where drainage problems exist or where displacements may become a public safety hazard. The improvements will be replaced over existing base material in most cases (approximately 60% of sidewalk replacement locations). When it is necessary to remove pavement adjacent to the lip of the gutter, replacement of asphalt concrete pavement will be completed by the Contractor.

Contractor shall complete all work in conformance with Sections 39, 73, 92 and 94 of the State of California, Department of Transportation, Standard Specifications latest edition.

1.02 MATERIALS

PORTLAND CEMENT CONCRETE:

Portland Cement Concrete shall be Class A concrete have one (1") inch maximum combined aggregate grading, conforming to Section 90-1.02C(4)(d) of the Standard Specifications. Concrete shall contain not less than six (6) sacks (564 pounds) of cementitious material per cubic yard

PORTLAND CEMENT:

All cement used shall be of one brand and shall conform to A.S.T.M. C150 Type II Supplementary Cementitious Materials shall conform to Section 90-1.02B(3). *Results of certified tests* made by recognized testing laboratory shall be furnished by the cement manufacturer on request of the Engineer

AGGREGATES:

Aggregates for portland cement concrete shall conform to Section 90-2.02C of the State of California, Department of Transportation, Standard Specifications latest edition.

Combined aggregate grading shall conform to the one (1") inch maximum requirements of Section 90-1.02C(4)(d) of the State of California, Department of Transportation, Standard Specifications latest edition.

WATER:

Water for washing aggregates and for mixing portland cement concrete shall conform to Section 90-1.02D of the State of California, Department of Transportation, Standard Specifications latest edition.

ADMIXTURES:

No admixtures, accelerators, or retarders shall be allowed without the express approval of the Engineer.

EXPANSION JOINTS:

Expansion joints shall consist of prepared strips of three-eighths (3/8") inch thick premolded joint filler conforming to the specifications of A.S.T.M. Designation: D-1751.

CURING:

All portland cement concrete surfaces shall be cured using a portland cement concrete curing compound No. 4 or 5 meeting the requirements of State of California, Department of Transportation, Standard Specifications Section 90-1.03B(3)(b) of the latest edition of the State of California Standard Specifications.

HOT MIX ASPHALT (HMA) REPLACEMENT:

This work shall conform to Section 39, HOT MIX ASPHALT, Section 92, ASPHALTS, and Section 94, ASPHALTIC EMULSIONS of the State of California, Department of Transportation, Standard Specifications latest edition, with the exceptions noted in these Provisions. The HMA shall be 1/2" Type A with BG 64-10,

The work shall include sawcutting and/or grinding of asphalt, removal of asphalt and affected subgrade and replacement of asphalt as specified in these Provisions and as directed by the Engineer.

Prior to starting work, the Contractor shall submit Job Mix Formula on CEM 3511 and 3512 forms. A CEM 3513 is not required.

CERTIFICATES OF COMPLIANCE:

Contractor shall furnish to the Engineer a Certificate of Compliance signed by the manufacturer of the plant mix portland cement concrete and Hot Mix Asphalt. Certificate of Compliance shall state that the portland cement concrete and asphaltic cement concrete furnished complies in all respects with the requirements of the specifications. A Certificate of Compliance shall be furnished with each lot of material delivered to the work and the lot so certified shall be clearly identified in the Certificate.

1.03 TRAFFIC CONTROL AND PEDESTRIAN SAFETY

The Contractor shall provide traffic control in the form of placing warning signs, markers and devices in accordance with the California MUTCD (latest edition) and as required by the Engineer. When necessary to provide for public safety or convenience, either for vehicles, pedestrians or bicyclist, the Contractor shall provide flaggers as necessary.

During non-work hours, the Contractor shall post signs and warning devices to safely direct pedestrians and bicyclist around the work area.

Contractor shall not unnecessarily interfere with use of any roadway, walkway or other facility for vehicular or pedestrian traffic. Before beginning any interference and only with City's prior concurrence, Contractor may provide detour or temporary bridge for traffic to pass around or over the interference, which Contractor shall maintain in satisfactory condition as long as interference continues. Unless otherwise provided in the Contract Documents, Contractor shall bear the cost of these temporary facilities.

1.04 CONSTRUCTION METHODS

SUBGRADE PREPARATION: (Portland Cement Concrete & Asphaltic Concrete)

The existing material shall be excavated to the required depth per the City of Cupertino Standard Details or Caltrans Standard Plans (latest edition), as is applicable. The finished subgrade immediately prior to placing subsequent material thereon shall have a relative compaction of ninety (90%) percent for a depth of 0.5 foot as determined by State of California Test Method No. 216. The subgrade shall be smooth and true to the required grade. Immediately prior to the placing of cushion for portland cement concrete, the subgrade shall be thoroughly saturated with water. Ponded water shall not be permitted.

CUSHION:

The base material underlying existing sidewalk, curb and gutter or other portland cement concrete improvements is considered acceptable for this work. The Contractor will be required to bring the material to the proper grade and to consolidate by watering. The project engineer will determine when the required moisture content has been obtained. If additional cushion material is required due to grade changes, base material uncontaminated by native soil from other locations or ¾" Class 2 aggregate base may be used.

FORMS:

Forms shall be smooth on the side placed next to the portland cement concrete, and shall have a true smooth upper edge and shall be sufficiently rigid to withstand the pressure and tamping of fresh portland cement concrete without distortion. Timber forms shall be free from warping or deformation.

All forms shall be thoroughly cleaned and coated with form oil to prevent the portland cement concrete from adhering to them.

The depth of forms for back of curbs shall be equal to the full depth of the curb. The depth of face forms for portland cement concrete curbs shall be

equal to the full face height of the curb. The gap between the bottom of the form and the subgrade shall not exceed 1 inch. Forms shall be set carefully to alignment and grade and shall be held rigidly in place by stakes, spreaders, or clamps, and shall be braced so that no displacement will occur during the working of the portland cement concrete. For other than short radius curves, timber forms shall be nominal two (2") inch stock.

All concrete placement shall be confined and no neat (earth confined) placement shall be allowed. When allowed by the engineer, concrete may be placed neatly against asphaltic concrete.

PLACEMENT:

All portland cement concrete shall be used while fresh and before it has taken an initial set. Retempering any partially hardened portland cement concrete with additional water shall not be permitted.

Where pavement or surfacing is to be placed around or adjacent to manholes, drop inlets, or catch basins, which will be located within traffic lanes, such structures shall not be constructed to final grade until after the pavement or surfacing has been placed around these locations.

Portland cement concrete shall be poured continuously between joints and brought to the required section as the work progresses.

JOINTS (CURB AND GUTTER):

Expansion joints shall be installed at each side of structures and at the ends of curb returns. Weakened plane joints shall be constructed at ten (10') foot maximum intervals. Weakened plane joints shall be cut to a minimum depth of one and one-fourth (1-1/4") inch with a tool that leaves corners rounded and insures a free movement of the portland cement concrete at the joint. The joint shall have a minimum width of one-eighth (1/8th) inch and shall not exceed one-fourth (1/4") inch.

JOINTS (SIDEWALK):

Expansion joints shall be constructed at all returns and opposite expansion joints in adjacent curb. Where curb is not adjacent, expansion joints shall be constructed at intervals of sixty (60') foot maximum intervals and opposite weakened plane joints in adjacent curb. Joints shall be constructed at right angle to the line of curb and to the same depth and width as for curb and gutter.

Score lines shall be constructed at five (5') foot intervals at right angle to the line of curb. For sidewalk eight (8') feet or over in width, a score line parallel to the line of curb shall be constructed midway between back of curb and back of walk.

Score line shall be made with a scoring tool which will make a rounded line of uniform width and depth of one-fourth (1/4") inch. A score line parallel to the face of curb shall be constructed six (6") inches from the face of the curb.

TOLERANCE:

The top and face of the curb and gutter, the flowline of the curb and gutter, and the surface of the sidewalk shall not vary more than one-fourth (1/4") inch for the edge of an eight (8') foot straight edge when placed against the surface, except at grade changes or curves.

FINISH:

Fresh portland cement concrete shall be struck off and compacted until a layer of mortar has been brought to the surface. The surface shall be finished to grade and cross section with a float, troweled smooth, and finished with a broom. The finish and texture of the portland cement concrete shall be approved by the Engineer. Portland cement concrete adjacent to expansion joints shall be finished with an edger tool. Brooming shall be transverse to the line of traffic.

HMA PLACEMENT:

All asphalt replacement area finish surfaces must be smooth, uniform and match existing grades. Application of asphalt and asphaltic emulsion must be neat, with surrounding areas kept clean. Asphalt replacement thickness shall be 6 inches. The HMA shall be placed in two lifts with the top lift no less than 1-3/4 inches thick. The HMA shall be placed using the Method Specification for compaction as amended in writing by the Engineer prior to the work. Any broken edges of existing pavement shall be sawcut immediately prior to paving. Tack coat shall be placed on the vertical edges of both the existing HMA and concrete prior to the base course paving and again prior to the paving of the surface course.

1.05 TREE ROOTS & TREE DAMAGE

Contractor shall notify the Engineer of any roots discovered which are larger than two inches in diameter. No root larger than 2 inches in diameter shall be removed without expressed permission from the City Engineer and the Tree/Right of Way Supervisor (Jonathan Ferrante 408.777.3343). Where work occurs adjacent to or over tree roots, the roots shall be removed to a minimum depth of six inches (6") below the bottom or side of the new portland cement concrete. Root removal shall be achieved by mechanical root pruning, supersonic air tool root pruning, or approved equal. Cuts on tree roots and barks or skins or cuts on trees shall be treated with an acceptable sealer and growth inhibitor such as Tre-hold. Payment for this work shall be considered as included in the price for removal and replacement.

1.06 ROOT BARRIER

Linear root barriers shall be used when concrete hardscape is placed within six feet (6') of any tree in any direction. Eighteen inch root barriers shall be used when tree is located adjacent to new curb and gutter. All root barriers shall be made of high density, high impact plastic, shall have a minimum thickness of 0.085" and shall be installed according to manufacturer's specifications. The

length of the root barrier shall extend five times the diameter of the tree trunk each direction measured from the centerline of the tree's trunk or, entire length of repair, whichever is less..

1.07 REMOVAL OF PARK STRIP IMPROVEMENTS

At some curb ramp locations, it will be necessary to remove existing concrete improvements made by property owners in the public right of way. If such removals are necessary, the limit of removal shall be sawcut to full depth of the existing concrete. After removal and construction of the new concrete facilities, the remaining area shall be backfilled with topsoil approved by the Engineer.

1.08 EXISTING IMPROVEMENTS

Where irrigation systems, landscaping, fences, mailboxes, signs, and other improvements exist adjacent to the work, the Contractor shall use reasonable caution to ensure that no damage is caused. If damage to these improvements does occur, the Contractor shall replace in kind or with an acceptable substitute, at his expense.

When repairs to sidewalks and driveways adjacent to property line occur, there may be instances where on-site flat work (driveways and walkways) on private property will:

1. Interfere with the repair of existing public improvements.
2. Be incompatible with the new sidewalk, curb and gutter grades.
3. Be out of repair to the extent that the hardscape is hazardous to pedestrian traffic.
4. Present a restriction to the street tree's natural growing space.

In these situations, it may become necessary for the City's Contractor to remove and replace portions of the on-site flat work. The costs for the removal and replacement of private portland cement concrete improvements will be paid at contract unit prices. The costs for removal and replacement of private improvements other than portland cement concrete and/or asphalt will be negotiated on a case by case basis with the Engineer. On-site removal and replacement will be only as directed by the Engineer and no extension of quantities will be allowed without prior approval.

For decorative hardscape and landscape areas (parkstrip portland cement concrete, mow strips, etc.) the cost for the replacement of voluntary and private improvements within the public right-of-way shall remain the sole responsibility of the abutting property owner. In no instance shall the replaced hardscape be within three (3) feet of the base of any street tree, or in any way present a restriction to the natural growth of the street tree, or interfere with any public

utility within the parkstrip. All such work shall require a permit from the City of Cupertino separate from this project.

1.09 CLEANUP AND BACKFILLING

The construction area shall be kept neat and safe. Forms shall be removed from the edge of portland cement concrete within two (2) days and be kept in neat piles, not scattered about, and nails in boards shall be turned under, bent over, or removed. Removed nails shall be cleaned up and removed from site.

After forms are removed, portland cement concrete edges shall be backfilled and raked smooth with clean and suitable topsoil. Said topsoil material shall also be used to backfill and bring to an acceptable grade area where portland cement concrete or other paving material is removed, but not replaced.

The Contractor shall clean all areas occupied by him in connection with the work, and the entire area shall be left in a neat, clean and presentable condition, within seven days of completion. **All asphalt replacement shall be completed, brought to finish grade with asphaltic concrete within thirty (30) calendar days of removal.** Upon removal of forms, all edges of concrete are to be backfilled. When the edge is lip of gutter, backfill material will be compacted class II aggregate base or asphalt concrete. Any residue left from said cutting operations shall be cleaned and removed per the nonpoint source pollution control best management practices. All cleanup shall be performed as required by the Engineer.

1.10 WORK AREAS

The Engineer, whenever possible, will arrange the work so that all of the work required to be done in a section of the City will be scheduled continuously. The intent of the scheduling will be to prevent the Contractor from having to unnecessarily move from one part of the City to another without having completed the work first assigned.

The majority of work items will occur on various residential streets throughout the City with parking on either side of the street and a 25 miles per hour speed limit. All other work will occur on arterial / collector streets. These streets include, but are not limited to:

- Stelling Rd
- De Anza Blvd
- McClellan Rd

1.11 PAYMENT:

Payment shall be per unit specified and shall be considered full compensation for furnishing all materials, equipment, labor, safety, traffic controls, cleanup and all work incidental thereto.

Bid items 1 through 3, shall include: sawcutting, removal and replacement of

existing concrete; doweling per City Standard Detail 1-23, removal of street pavement as necessary; replacement or repair of existing improvements; grading, filling and consolidating of base materials; tree and root pruning; and backfill and cleanup. Contractor is advised to closely review City of Cupertino Standard Details 1-16, 1-18 through 1-30. See city standard detail 1-20 for diagram of pay items.

Bid Item 4 – Removal of Park Strip Improvements: This work includes breaking up, loading, hauling and disposing of portland cement concrete, asphalt, brick or other materials in areas such as park strips where new portland cement concrete is not to be installed. This work shall also include backfilling and smoothing out topsoil to a plane even with top-of-curb and top-of-sidewalk.

Bid Item 5 – Remove Median Island Flatwork: This work includes breaking up, loading, hauling and disposing of portland cement concrete, asphalt, brick or other materials in median island areas located within median islands located on collector / arterial streets. This work shall also include backfilling and smoothing out topsoil to a plane even with top-of-curb.

Bid Item 6 - Valley Gutter: This work shall include the removal of existing valley gutter, removal of street pavement if necessary, grading, filling and compaction of both sub-base and base material if necessary and construction of new valley gutter. Portland cement concrete shall be as specified above and shall include #4 rebar per City Standard Detail 1-18.

Bid Item 7A – 7E – Depressed Curb Ramps: This work shall include sawcut and removal of existing improvements, the construction of sub-grade, placement of cushion material and construction of new handicap ramp at various locations per Caltrans Standard Detail A88A (latest addition) and in conformance with ADA requirements. The Engineer shall determine the type of ramp to be installed at each location. Work shall include all improvements within ramp borders (including adjacent curb & gutter) as shown on detail A88A, assuming planter width ranging 4.5' to 5.0'. Payment shall be on per each basis. Case type B shall have a maximum area of 200 square feet. If a type B ramp exceeds 200 square feet, the additional square footage will be paid at the unit cost for removal/replacement of sidewalk. Depressed curb ramps shall be poured monolithically with adjacent curb and gutter, retaining curbs, etc. All improvements outside of the ramp borders including sidewalk, curb and gutter, and retaining curbs behind walk (case type B, and C) shall be paid at unit cost. Retaining curbs adjacent to planting areas (Case Type E, F & G) shall be included in unit cost to construct ramp. **See attached detail A88A for illustration of pay items.** Hardscape in planter strip adjacent to curb ramps shall be removed to limits specified by engineer prior to installation of ramp, and shall be paid per bid item 4. The detectable warning surface shall be dark gray in residential neighborhoods, the detectable warning service shall be federal yellow on arterial streets, collector streets, commercial areas, and in proximity to schools. Color will be specified by the Engineer.

Bid Item 8 – Upgrade Existing Curb Ramp: This work will modify existing ramps to comply with Caltrans Standard Detail A88A (latest addition). Work

shall include installation of detectable warning surfaces. Contractor shall verify existing ramps meet all ADA requirements, other than presence of detectable warning surface, prior to installation. The detectable warning surface shall extend the full width and three foot depth of the ramp and shall be located 6" to 8" from the gutter flowline. The detectable warning surface shall be federal yellow or dark gray, as specified by the City Engineer, composite tactile by ADA solutions, Inc. or approved equal. When the detectable warning surface edge is cut and the resulting edge is not flush with the surface of the ramp, the edge shall be beveled or conformed with perimeter sealant at 1:2 max slope in accordance with the manufactures requirements. Color Matched structural adhesive shall be Urethane Elastomeric Adhesive by Bostik or approved equal. Structural adhesive shall be applied to full perimeter and through center of tile each way per manufactures requirements. Color matched, stainless steel 304, flat head drive anchors (1/4" diameter x 1 1/2" long) shall be placed twelve inch on center both directions. Manufacturer(s) shall provide a written 5-year warranty for prefabricated detectable warning surfaces, guaranteeing replacement when there is a defect in the dome shape, color fastness, sound-on-cane acoustic quality, resilience, or attachment. Warranty period shall begin upon acceptance of work.

Bid Item 9 – Curb Ramp Retaining Curb (behind walk): Payment shall be made per linear foot of retaining curb installed. Payment shall include full compensation for furnishing all labor, materials, tools, equipment, and incidentals.

Bid Item 10 - Root Barriers: Payment shall be made per linear foot of root barrier installation. Payment shall include excavating the required trench, and the furnishing of all labor, materials, tools, and equipment required to root prune, apply dressing, and install root barrier complete and in place.

Bid Item 11 - Median Island Curb: Payment shall include removal of existing improvements; removal of street pavement if necessary; grading, filling and consolidating of base materials. This work shall also include backfilling and replacement of topsoils in landscape median islands; protection in place or replacement of existing irrigation facilities (reconfiguration or modification of irrigation facilities if needed will be done by others); contractor shall supply traffic control and advance warning devices for lane closures.

Payment shall be measured and paid per linear foot for median island curbs per City Standard Detail A1-8. Payment shall include full compensation for furnishing all labor, materials, tools, equipment, and incidentals, and for returning serviceable existing segmented curbs to the City or disposing of non-serviceable existing curbs. Locations of median islands improvements shall be determined by the Engineer. Payment shall include full compensation for furnishing all labor, materials (including sand cushion), tools, equipment, and incidentals.

City will be responsible for relocation of any traffic control post/signs that may be located within median islands.

Bid Item 12 - Reconstruction of Catch Basin Top: Payment shall be made for the removal and replacement of existing catch basin top per City Standard Detail 3-3; existing hood, frame and grate shall be salvaged and reused; replacement of existing rebar shall be included in the Bid Item.

Bid Item 13 – Asphalt Replacement: Payment shall be measured and paid per the theoretical weight, measured in tons. The theoretical weight will be calculated based upon the individual asphalt replacement areas marked by the City, multiplied by the depth, multiplied by the weight of asphalt in lb/cubic feet (assume 148 lbs/cubic foot), all divided by 2000. Payment shall include full compensation for furnishing all labor, materials, tools, equipment, and incidentals, and for doing all the work involved in constructing the asphalt repairs, complete in-place, sawcutting, removal of asphalt/baseroack/earth spoils, including any and all additional work described in these project specifications and plans. Any and all removal and replacement done outside of the areas marked by the City or to depths greater than the required 6 inches.

Contractor is required to coordinate construction with Kane Wolfe, Public Works Inspector (408) 777-3353 a minimum of 48 hours in advance.

Payment shall be made for only those items shown on the bid schedule. Any item of work that is not shown on bid schedule, but is required by these specifications shall be considered as incidental and full compensation for same shall be made as considered included in the payment for the bid items.

In general, contract prices and payments shall include, but not be limited to, full compensation for all necessary materials, labor, tools, equipment, traffic control, and incidentals to do all the work involved, complete and in place, as shown on the plans, as specified in the specifications and as directed by the Engineer.

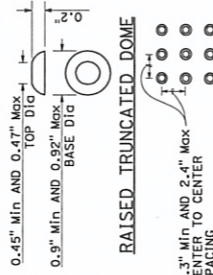
LIST OF DETAILS

Detail No.	Title
1-16	STANDARD CURB SECTIONS
1-18	STANDARD VALLEY GUTTER
1-19	SIDEWALKS DETAILS
1-20	DRIVEWAY DETAIL – DETACHED SIDEWALK
1-21	DRIVEWAY DETAIL – MONOLITHIC SIDEWALK
1-21B	DRIVEWAY DETAIL – MONOLITHIC SIDEWALK OPTION 2
1-23	DOWEL CONNECTIONS
3-2	STANDARD DROP INLET – CURB OPENING
A88A	CALTRANS REVISED STANDARD PLAN – CURB RAMP DETAILS

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DIST.	COUNTY	ROUTE	POST MILES	TOTAL SHEETS

REGISTERED PROFESSIONAL ENGINEER
 H. David Cochran
 REGISTERED CIVIL ENGINEER
 No. 53111
 State of California
 July 21, 2017
 PLANS APPROVAL DATE
 THE STATE OF CALIFORNIA OR ITS OFFICERS
 SHALL NOT BE HELD RESPONSIBLE FOR THE
 ACCURACY OR COMPLETENESS OF ANY
 PORTION OF THIS PLAN SHEET.

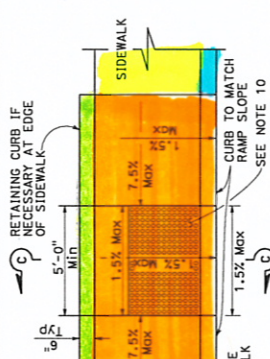


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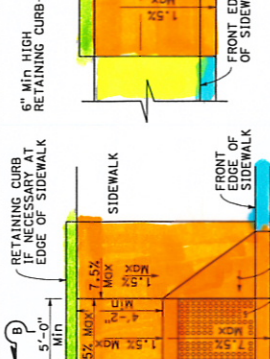
DETECTABLE WARNING SURFACE
TO ACCOMPANY PLANS DATED _____

NOTES:

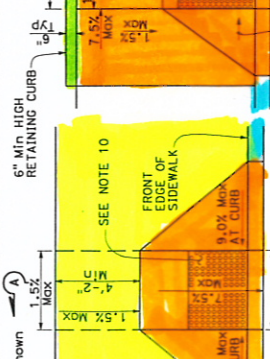
- As site conditions dictate, Case A through Case G curb ramps may be used. The corner radiations similar to those shown in Detail A and Detail B through Case G curb ramps also may be used at mid block locations, as site conditions dictate. For specific site condition configuration, including the conform to existing sidewalk, see Project Plans.
- If distance from curb to back of sidewalk is too short to accommodate ramp and 4'-2" platform. (landing) as shown in Case A, the sidewalk may be depressed longitudinally as in Case B or C or may be widened as in Case D.
- When ramp is located in center of curb return, crosswalk configuration must be similar to that shown for Detail B.
- As site conditions dictate, the retaining curb side and the flared side of the Case G ramp shall be constructed in reversed position.
- The ramp portion of the curb ramp is a typical rectangle, unless modified in the Project Plans.
- Side slope of ramp flares vary uniformly from a maximum of 9.0% at curb to conform with longitudinal sidewalk slope adjacent to top of the ramp, except in Case C and Case F.
- The adjacent surfaces at transitions at curb ramps to walks, gutters, and streets shall be at the same level.
- Corner slopes of adjoining gutters and road surfaces immediately adjacent to and within 24 inches of the curb ramp shall not be steeper than 1:20 (5.0%). Gutter pan slope shall not exceed 1" of depth for each 2'-0" of width.
- Transition gutter pan slope from 1" of depth for each 2'-0" of width to match typical gutter pan slope per Standard Plan A87A.
- The detectable warning surface will be a rectangle as shown at back of curb, extending the full width and 3'-0" depth of the ramp. Detectable warning surfaces shall extend the full width of the ramp except a maximum gap of 1 inch is allowed on each side of the ramp. Detectable warning surfaces shall conform to the requirements in the Standard Specifications.
- Sidewalk and ramp thickness, "T", shall be 3/2" minimum.
- Utility pull boxes, manholes, vaults and all other utility facilities within the boundaries of the curb ramp will be relocated or adjusted to grade by the owner prior to, or in conjunction with, curb ramp construction.
- Detectable warning surface may have to be cut to allow removal of utility covers while maintaining detectable warning width and depth.



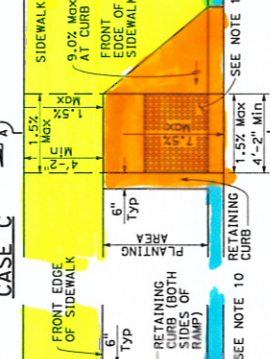
CASE A



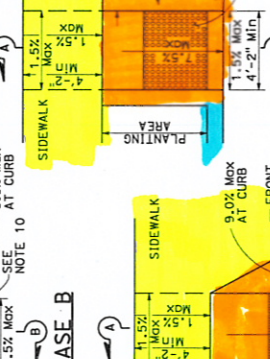
CASE B



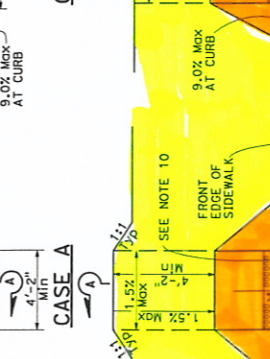
CASE C



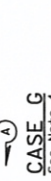
CASE D



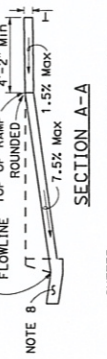
CASE E



CASE F



CASE G



SECTION A-A

SECTION B-B

SECTION C-C

DETAIL A

DETAIL B

DETAIL C

WHERE A FLARED SIDE OCCURS PROVIDE 2'-0" MIN OF CURB

WHERE A FLARED SIDE OCCURS PROVIDE 2'-0" MIN OF CURB

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WHERE A FLARED SIDE OCCURS PROVIDE 2'-0" MIN OF CURB

CURB RAMP DETAILS

NO SCALE

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

REVISOR STANDARD PLAN RSP A88A

RSP A88A DATED JULY 21, 2017 SUPERSEDES RSP A88A DATED JULY 15, 2016 AND STANDARD PLAN A88A DATED OCTOBER 30, 2015 - PAGE 127 OF THE STANDARD PLANS BOOK DATED 2015.

- Retaining Curb
- Sidewalk
- Ramp
- Curb & gutter



See Notes 1 and 3

See Note 1

See Note 8

See Note 9

See Note 10

See Note 11

See Note 12

See Note 13

See Note 14

See Note 15

See Note 16

See Note 17

See Note 18

See Note 19

See Note 20

See Note 21

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See Note 85

See Note 86

See Note 87

See Note 88

See Note 89

See Note 90

See Note 91

See Note 92

See Note 93

See Note 94

See Note 95

See Note 96

See Note 97

See Note 98

See Note 99

See Note 100

CITY OF CUPERTINO							
2018/19 RECONSTRUCTION OF CURBS, GUTTERS AND SIDEWALK							
PARTIAL LOCATION LIST (FOR REFERENCE ONLY)							
STREET	ADDRES	Sq. Ft.	Lin. Ft.	Sq. Ft.	Sq. Ft.	CURB	Zone
		SW	C/G	DW	PARKSTRIP	RAMPS	
Grapel Pl	10665	0.00	22.0	0.00			1
Grapel Pl	10685	0.00	22.0	0.00			1
Pebble Pl	10682	108.00		0.00	81.00		1
Pebble Pl	10683	184.50		0.00			1
Pebble Pl	10703	49.50		0.00	50.00		1
Pebble Pl	10723	0.00	25.0	0.00			1
Acadia Ct	20714	0.00		0.00		C	2
Acadia Ct	20725	0.00		0.00		C	2
Alves Dr/YMCA	20803	145.00	14.0	0.00	41.00		2
Bandley Dr/Alves Side	10125	170.00		0.00			2
Beardon Dr	10161	0.00		0.00		B	2
Beardon Dr	10160	171.00	14.5	137.75		B	2
Beardon Dr	10161	74.25	26.0	207.00		C	2
Hanford Dr	20903	18.00		0.00			2
Hanford Dr	20931	0.00	10.0	0.00			2
Hanford Dr	20696	0.00	18.5	0.00			2
Hanford Dr	20697	0.00	25.0	0.00			2
Park Cir East	10160	346.50	26.0	15.00	99.00	B	2
Park Cir East	10161	344.25	74.5	168.00	68.00	B	2
Park Cir W Dr/Alves	10161	126.00	25.0	162.00	30.00	B	2
Park Cir W Dr/Alves	10160	90.00	46.0	33.75	81.00	B	2
Saich Ave	10115 #2	0.00		0.00			2
Saich Ave (Happy Days DC	10115 #1	292.50	36.0	0.00		B	2
Stevens Cr/Alves Dr Side	20863	189.00		0.00			2
Stevens Cr/Saich	20745 #2	0.00		0.00			2
Stevens Cr/Saich (Target)	20745 #1	873.00	58.0	0.00		C	2
Blossom Ln	20557	0.00	14.0	0.00			15
Felton Way	10626	0.00		56.00			15
Jollyman Ln	20915	42.75		0.00			15
Jollyman Ln	20866	35.00	7.0	0.00			15
Jollyman Ln	20905	29.25		0.00		C	15
Jollyman Ln	20895	31.50	9.0	0.00		C	15
Jollyman Ln	20885	49.50	9.5	0.00			15
Lonna Ln	845	45.00		0.00	68.25		15
Lonna Ln	861	0.00		0.00			15
Lonna Ln	877	0.00		0.00			15
Lonna Ln	885	0.00		0.00			15
Lonna Ln	829	24.75	21.0	0.00			15
Mc Clellan Rd	10518	0.00		0.00		C	15
Mc Clellan Rd	20820	0.00		0.00		C	15
S StellingRd/Jollymn	940	0.00	27.0	112.50			15
Greenwood Dr	19423	81.00		0.00			21
Greenwood Dr	19444	216.00	88.0	198.00			21
Greenwood Dr	19461	90.00		0.00			21
Greenwood Dr	19342	74.25		0.00			21
Greenwood Dr	19358	11.25	2.5	22.50			21
Greenwood Dr	19451	85.50	8.0	58.50			21
Greenwood Dr	19441	31.50	11.0	117.00			21
Greenwood Dr	19387	0.00	23.0	0.00			21
Greenwood Dr	19405	94.50	41.0	0.00			21
Greenwood Dr	19415	81.00	15.0	96.75			21
Greenwood Dr	19425	15.75	58.0	180.00			21
Greenwood Dr	19385	153.00	66.0	0.00			21
Leola Ct	10362	0.00	9.0	177.75			21
Leola Ct	10370	171.00	39.5	0.00			21
Leola Ct	10371	38.25	12.0	76.50			21
Leola Ct	10341	90.00	19.0	72.00			21
Leola Ct	10359	67.50		148.50			21

STREET	ADDRES	Sq. Ft.	Lin. Ft.	Sq. Ft.	Sq. Ft.	CURG	Zone
		SW	C/G	DW	PARKSTRIP	RAMPS	
Leola Ct	10360	0.00	33.0	108.00			21
Leola Ct	10350	171.00	35.0	0.00			21
Leola Ct	10358	0.00	66.0	180.00			21
Leola Ct	10340	0.00	52.0	0.00		B	21
Leola Ct 1 SW CUT	10331	153.00		0.00		B	21
Auburn Ct	19691	141.75	25.5	49.50		F	26
Auburn Ct	19731	94.50	71.0	216.00		F	26
Auburn Ct	19721	0.00	9.0	0.00			26
Auburn Ct	19701	78.75	16.0	207.00			26
Auburn Ct	19711	0.00	22.5	218.50			26
Auburn Dr	19650	67.50	15.0	0.00	221.00		26
Auburn Dr	19660	45.00		0.00			26
Auburn Dr	19764	0.00		0.00	23.00		26
Auburn Dr	19790	90.00	5.0	0.00		F	26
Auburn Dr	19661	31.50	10.0	0.00	140.00	F	26
Auburn Dr	19780	72.00	12.5	0.00	36.00		26
Drake Dr	19671	58.50		0.00	22.00		26
Drake Dr	19681	110.25		0.00	90.00		26
Drake Dr	19710	51.75		0.00	171.00		26
Drake Dr	19751	0.00		0.00	180.00		26
Drake Dr	19766	22.50		128.00			26
Drake Dr	19780	117.00	1.0	0.00	122.00	F	26
Drake D	19690	216.00	10.0	45.00			26
Drake Dr	19621	72.00	7.0	0.00		F	26
Drake Dr	10781	63.00	7.0	0.00		F	26
Drake Dr	19691	36.00	18.0	0.00			26
Drake Dr	19700	72.00	18.0	0.00	50.00		26
Drake Dr	19720	58.50		0.00		B	26
Drake Dr	19750	130.50		0.00		B	26
Drake Dr	19631	101.25	22.0	0.00	68.00		26
Drake Dr	19641	0.00	33.0	0.00			26
Drake Dr	19705	90.00	18.5	20.25			26
N Portal Ave	10137	58.50		0.00			26
N Portal Ave	10370	0.00		0.00	16.00		26
N Portal Ave	10571	0.00		0.00	95.00		26
N Portal Ave	10435	36.00	8.0	0.00			26
N Portal Ave	10435	0.00	7.0	0.00			26
N Portal Ave	10421	135.00	13.0	72.00			26
N Portal Ave	10530	117.00	13.0	0.00		F	26
N Portal Ave	10530	108.00	14.0	0.00		F	26
N Portal Ave	10602	0.00	7.5	0.00			26
N Portal Ave	10421	135.00	13.5	82.50			26
N Portal Ave	10461					A	26
N Portal Ave	10450					A	26
Creston Dr	10348	0.00	35.5	0.00			32
Creston Dr	10316	0.00	7.0	0.00			32
Creston Dr	10269	0.00	57.0	0.00			32
Creston Dr	10332	0.00	66.0	0.00			32
Degas Ct	10320	191.25		0.00			36
Degas Ct	10313	0.00		40.50			36
Degas Ct	10303	112.50	37.0	13.50		F	36
Degas Ct	10333	0.00	7.5	54.00			36
Lockwood Dr	10487	342.00	21.0	0.00	9.00		36
Medina	22721	18.00		0.00			36
Medina Ln	22731	36.00		0.00			36
Medina Ln	22771	49.50		45.00			36
Medina Ln	22811	153.00		0.00			36
Medina Ln	22781	0.00	27.0	0.00			36
Medina Ln	22762	67.50	31.0	0.00		F	36
Medina Ln	22742	36.00	20.5	0.00			36
Medina/El Prado Way	22812	49.50	18.0	0.00			36
Standing Oak Ct	22994	0.00	20.0	0.00			36

STREET	ADDRES	Sq. Ft.	Lin. Ft.	Sq. Ft.	Sq. Ft.	CURG	Zone
		SW	C/G	DW	PARKSTRIP	RAMPS	
Voss Ave	10355	27.00	78.0	135.00			36
Voss Ave	22763	0.00	7.0	27.00			36
Merritt	19821	0.00		0.00		A	26
Merritt Dr	19791	0.00		0.00		F	26
N Blaney Ave	10370	0.00		0.00		F	26
Pear Tree Ln	19990	0.00		0.00		A	26
Yorkshire Dr	1181	0.00		0.00		A	26
Yorkshire Dr	1180	0.00		0.00		F	26
Brookgrove Ln	855	0.00		0.00		B	21
Brookgrove Ln	854	0.00		0.00		B	21
Ferngrove Ln	853	0.00		0.00		A	21
Ferngrove Ln	856	0.00		0.00		G	21
802 S Blaney Ave	802	0.00		0.00		A	19
TOTALS		8,555.75	1,937.50	3,681.25	1,761.25		