**CASE A**

Typical Two-Ramp Corner Installation

(See Note 1) Use Detail 1, Detail 2, Detail 3 or Detail 4 on Sheet 4 as Appropriate

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**CASE B**

(See Note 1) Use Detail 1 on Sheet 4

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**CASE C**

Unidirectional Ramp

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**CASE D**

For use at Mid-Blocks Use Detail 1, Detail 3, or Detail 4 on Sheet 4 as Appropriate

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**CASE E**

For use at Mid-Blocks (See Note 12)

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**CASE F**

For use at Mid-Blocks Use Detail 2 and Detail 5 on Sheet 4 as Appropriate

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*NOT TO SCALE*
TYPICAL JOINTS
ALL CASES (SEE S-444 FOR JOINT DETAILS)

CASE G
(SEE NOTE 12)

PLAN

ISOMETRIC

NOT TO SCALE
CLEAR SPACE AND BOTTOM COUNTER SLOPE

CASES A, D, E, F AND G

SECTION A1
WHEN DRAINAGE IS NOT A CONCERN
AS DETERMINED BY THE ENGINEER

SECTION A2
WHEN DRAINAGE IS A CONCERN
AS DETERMINED BY THE ENGINEER

SECTION A3
NOT TO SCALE
RAISED TRUNCATED DOME PATTERN (IN-LINE)

NOTE:
WHERE INSTALLED IN A RADIAL PATTERN, TRUNCATED DOMES SHALL HAVE A CENTER TO CENTER SPACING OF 1.5 INCHES (41MM) MINIMUM TO 2.4 INCHES (61MM) MAX AND A BASE TO BASE SPACING OF 0.65 INCHES (17MM) MINIMUM.

TYPICAL SECTION T-T

DETECTABLE WARNING SURFACE (DWS)

DWS EDGE DISTANCE

GROOVED BORDER DETAIL

STANDARD PLAN NO. S-442-4
VAULT INDEX NUMBER B-4752
SHEET 6 OF 8 SHEETS
NOTES

ALL WORK SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE LATEST STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION (SSPW) ADOPTED BY THE BOARD OF PUBLIC WORKS AS AMENDED BY THE LATEST CORRESPONDING CITY OF LOS ANGELES DEPARTMENT OF PUBLIC WORKS BROWN BOOK.

1. DUAL CURB RAMPS SHALL BE PROVIDED IN THE PUBLIC RIGHT OF WAY (CASE A). DUAL CURB RAMPS MAY BE INSTALLED OUTSIDE THE CURB RADIUS IN THE TANGENT PARTS OF THE CURB WHEN THE RADIUS OF CURB RETURN CAN NOT ACCOMMODATE TWO RAMPS. CASE B MAY BE INSTALLED WHEN EXISTING FIELD CONDITIONS OR NEW DESIGN CONTROLS AND CONSTRAINTS DO NOT ALLOW DUAL CURB RAMP CONSTRUCTION AS VERIFIED AND APPROVED BY THE ENGINEER. USE OF OTHER DETAILS WILL REQUIRE CITY ENGINEER APPROVAL. SEE SHEET 3 FOR BOTTOM OF CURB RAMP COUNTER SLOPE REQUIREMENTS FOR ALL CASES.

2. ALL NOTED GRADES SHALL INCLUDE ALL ALLOWABLE CONSTRUCTION TOLERANCES.

3. PROVIDE A 12 INCH WIDE BORDER IN THE PLANE OF THE SIDEWALK AT RAMPS AS SHOWN WITH 1/4 INCH GROOVES APPROXIMATELY 3/4 INCH ON CENTER. SEE GROOVED BORDER DETAIL ON SHEET 6. THE SURFACE OF THE BORDER SHALL HAVE A FINE, HAIR BROOMED FINISH.

4. THE BOTTOM OF THE RAMP SHALL HAVE A 0 INCH CURB HEIGHT WITHIN "W" AREA.

5. SIDEWALK AND RAMP SHALL BE CONSTRUCTED WITH CLASS 520-C-2500 PCC. THE THICKNESS, "T", SHALL BE A MINIMUM OF 4 INCHES UNLESS OTHERWISE SPECIFIED AND APPROVED BY THE ENGINEER.


7. ALL RAMP SURFACES SHALL HAVE A WOOD OR RESIN FLOAT FINISH WITH A SWIRL-SURFACE TEXTURE.

8. STANDARD DIMENSIONS AND DEFINITIONS:

   BCR = BEGINNING OF CURB RETURN
   CH = STREET CURB HEIGHT
   ECR = END OF CURB RETURN
   FS = FINISHED SURFACE
   H = HEIGHT OF RETAINING CURB
   K = CLEAR SPACE AND GUTTER COMBINATION FOR CASE B RAMP
   L = SEPARATE GUTTER AND CLEAR SPACE FOR CASE B RAMP
   PL = PROPERTY LINE
   Q = 4 FT MINIMUM FOR SECTION A (SHEET 5) AND 5 FT MINIMUM FOR SECTION B, C (SHEET 5) AND WHEN A WALL, BUILDING, FENCE, OR ANY OTHER IMPROVEMENT THAT HABITALLY MOVES OF WHEELCHAIR IS ON ADJACENT PROPERTY LINE
   R = RADIUS OF CURB TRANSITION
   SW = SIDEWALK
   T = THICKNESS OF CONCRETE PAVEMENT, 4 INCHES UNLESS OTHERWISE APPROVED BY THE ENGINEER
   W = 4 FT MINIMUM WIDTH OF CURB RAMP MEASURED PERPENDICULAR TO THE DIRECTION OF RAMP TRAVEL
   W SLOPE = 2% MAXIMUM UNLESS NOTED OTHERWISE
   X = ARC OR LINEAR LENGTH OF CURB TRANSITION MEASURED ALONG THE CURBLINE. THE GRADE OF THE CURB TRANSITION ALONG LENGTH X SHALL BE BETWEEN 8.5% AND 10%. ANY DEVIATION FROM THIS TRANSITION GRADE SHALL BE APPROVED BY THE ENGINEER
   Y DISTANCE = MINIMUM LENGTH IS 3.5 FEET IF SECTION A OR B (SHEET 5) IS USED
   Y SLOPE = GREATER THAN 5% TO 8.33% MAXIMUM UNLESS NOTED OTHERWISE.
9. GUTTER SHALL HAVE A MAXIMUM OF 5% SLOPE FROM FLOWLINE WITHIN "W" AREA WITH "X" AREA (IF PROVIDED) TO BE USED FOR TRANSITION TO CITY STANDARD CURB AND GUTTER SLOPES.

10. THE RETAINING CURB FOR SECTIONS B AND C (SHEET 5) MAY BE OMITTED IF THE AREA IN BACK OF THE DEPRESSED SIDEWALK IS REGRADED (MAX 1V:3H) TO JOIN THE SIDEWALK.

11. REQUIRED DESIGN INFORMATION FOR EACH CURB RAMP: CASE, DETAIL, SECTION, AND PROFILE (IF APPLICABLE), X DIMENSION (IF APPLICABLE), Y DIMENSION, Y SLOPE, DESIGN STREET CURB HEIGHT, AND DESIGN FLOW LINE ELEVATION AT CENTER OF RAMP. FOR CASE E, THE REQUIRED FLOWLINE ELEVATION IS AT CENTER OF CLEAR SPACE.

12. CASE E AND G MAY BE USED FOR NARROW SIDEWALK OF FIVE (5) TO EIGHT (8) FEET.

13. PULL BOXES, METER BOXES, MAINTENANCE HOLE COVERS, VAULT LIDS, POWER POLES, ETC. SHALL NOT BE CONSTRUCTED WITHIN ANY PART OF CURB RAMPS.

14. CURB RAMPS SHOULD NOT BE CONSTRUCTED IN PUBLIC RIGHT OF WAYS HAVING STREET BORDERS OF LESS THAN FIVE (5) FEET UNLESS AN UNREASONABLE HARDSHIP EXISTS AS VERIFIED AND APPROVED BY THE ENGINEER.

15. WHERE THERE ARE EXISTING CATCH BASINS, MAINTENANCE HOLES, OR ANY OTHER UTILITIES PREVENTING CONSTRUCTIONS OF A FLARE, A NON-WALKABLE SURFACE OR BARRIER SUCH AS LANDSCAPING, PREVENTING DIRECT PEDESTRIAN ACCESS TO THE SIDE OF THE RAMP SHALL BE CONSTRUCTED. ALL NON-WALKABLE SURFACES OR BARRIERS DESIGNED WILL REQUIRE ENGINEER’S APPROVAL.

16. FOR DISCRETIONARY PROJECTS REQUIRING PUBLIC WORKS IMPROVEMENTS FROM THE DEPARTMENT OF CITY PLANNING OR COUNCIL OFFICE, PERMITTEE SHALL PROVIDE ADEQUATE DEDICATION OR EASEMENT TO PROVIDE CURB RAMPS USING SECTION A (SHEET 5). SECTIONS B OR C (SHEET 5) OR USE OF EXCEPTIONS ALLOWED ON SPECIAL ORDERS ARE NOT PERMITTED.

FOR CAPITAL IMPROVEMENT PROJECTS; ADEQUATE RIGHT-OF-WAY SHALL BE ACQUIRED TO PROVIDE CURB RAMPS USING SECTION A ON SHEET 5 UNLESS ACQUISITION OF SUCH RIGHT OF WAY IS NOT POSSIBLE OR FINANCIALLY INFEASIBLE.

17. TEMPORARY CONSTRUCTION EASEMENT OR RIGHT OF ENTRY SHALL BE OBTAINED FROM AFFECTED PROPERTY OWNERS PRIOR TO PLACING BACK OF SIDEWALK OR RETAINING CURB/WALL ALONG PROPERTY LINES.