# GENERAL SURFACE IMPROVEMENTS

## SUPPLEMENT TO REGIONAL STANDARD DRAWING ( "G" SERIES )

DRAWINGS G–1, G–2, G–3, G–4, G–6, G–7, G–11,
G–12, G–13, G–14A, G–14B, G–14C, G–14D, G–28, G–29, G–30, & G–31

NOTES All Historical Stamps/impressions (Street name, Contractor name, and/or date) shall be preserved per Standard Drawing SDG–115.

DRAWINGS G–3, G–7, G–11, G–14A, G–14B,
G–14C, G–14D, G–26, G–27, G–28, G–29, G–30, & G–31

NOTES For designated urbanized communities, sidewalk design (scoring pattern, color, texture) to be in conformance with historic design on adjacent properties.

DRAWINGS G–3, G–7, G–11, G–14A, G–14B,
G–14C, G–14D, G–27, G–28, G–29, G–30, & G–31

NOTES Sidewalk cross slope shall be 1.5%

DRAWING G–1

NOTES Amend Note 3 to read: "Sidewalk cross slope shall be 1.5%"

DRAWING G–2

NOTES Amend Note 3 to read: "Cross slope shall be 1.5%"

Add: 4. On the high side of superelevated curves the gutter shall be sloped to match cross–section grade of the roadway ( see SDDS–105 ).

Add: 5. Place expansion joints at curb returns, adjacent to structures and at no greater than forty–five foot ( 45' ) intervals.

Add: 6. Place weekened plane joints at driveways and at fifteen ( 15' ) foot intervals from P. C. R. 's.



| Revision | By | Approved | Date |
|---|---|---|---|
| ORIGINAL | | M. Y. Rollinger | 5-20-92 |
| NOTES | | G. Parkinson | 2-07-95 |
| NOTES | SM | Oskoui | 12-09-03 |
| | | | |
| | | | |

CITY OF SAN DIEGO - STANDARD DRAWING

SUPPLEMENTAL TO REGIONAL
STANDARD DRAWING ( "G" SERIES )

CITY OF SAN DIEGO
STANDARDS COMMITTEE

Chairperson RCE 64572 12-9-03 Date

DRAWING NUMBER SDG-100

## SUPPLEMENT TO REGIONAL STANDARD DRAWING ( "G" SERIES ) cont.

### DRAWING G–4

NOTES — Add: 4. Sidewalk under drains shall not be allowed.

### DRAWING G–7

NOTES — Add: 3. Sidewalk shall have a minimum clear width of four feet ( 4' ) from any obstruction.

### DRAWING G–9

NOTES — For designated urbanized communities, sidewalk scoring (grooves) pattern to be in conformance with historic design on adjacent properties.

### DRAWING G–12

SECTION A–A — Delete notation, "Base material as shown on plans."

### DRAWING G–13

CROSS SECTION — Delete notation, "Base material as shown on plans."

### DRAWINGS G–14A, G–14B

PLAN — Add notation at property line, "Place one–quarter inch ( 1/4" ) Expantion Joint Filler Material."

NOTES — Amend note 4 to read: "Driveway shall be a continuous pour from back of Curb to Property Line."

Add: 6 — Meter boxes shall not be located within driveway – see W–15.

Add: 7 — Driveway in excess of 150 feet in length from curb face shall require minimum of 7 inch P.C.C.



| Revision | By | Approved | Date |
|---|---|---|---|
| ORIGINAL | | M. Y. Rollinger | 5-20-92 |
| NOTES | | G. Parkinson | 2-07-95 |
| NOTES | SM | Oskoui | 12-09-03 |
| | | | |
| | | | |

**CITY OF SAN DIEGO - STANDARD DRAWING**

SUPPLEMENTAL TO REGIONAL STANDARD DRAWING ( "G" SERIES )

CITY OF SAN DIEGO STANDARDS COMMITTEE

Chairperson RCE 61572 — 12-9-03 Date

DRAWING NUMBER **SDG-100**

SUPPLEMENT TO REGIONAL STANDARD DRAWING ( "G" SERIES ) cont.

## DRAWINGS G–14C, G–14D

NOTES Add: 6 Meter boxes shall not be located within driveway – see W–15.

## DRAWING G–17

NOTES Add: 6. Construction of Alley Apron includes the adjacent six–inch (6") curb.

Add: 7. Refer to G–31 for pedestrian ramps.

## DRAWING G–31

NOTES Add: 3. Where curb height affected by constuction varies, the ramp length (Y) shall be governed by the highest curb height (X). The side slope (Z) shall be governed by the curb height on the respective side.

## DRAWING G–32

NOTES Add: 7. For Federally funded projects (new constructions and alterations), the lower endof the 48–inch width of the ramp shall be flush and free of abrupt changes between the bottom of the ramp and the street pavement.

## DRAWINGS G–27, G–28, G–29, G–30, & G–31

NOTES Do NOT use tables.



| Revision | By | Approved | Date |
|---|---|---|---|
| ORIGINAL | | M. V. Rollinger | 5-20-92 |
| NOTES | | G. Parkinson | 2-07-95 |
| NOTES | SM | Oskoui | 12-09-03 |
| | | | |
| | | | |

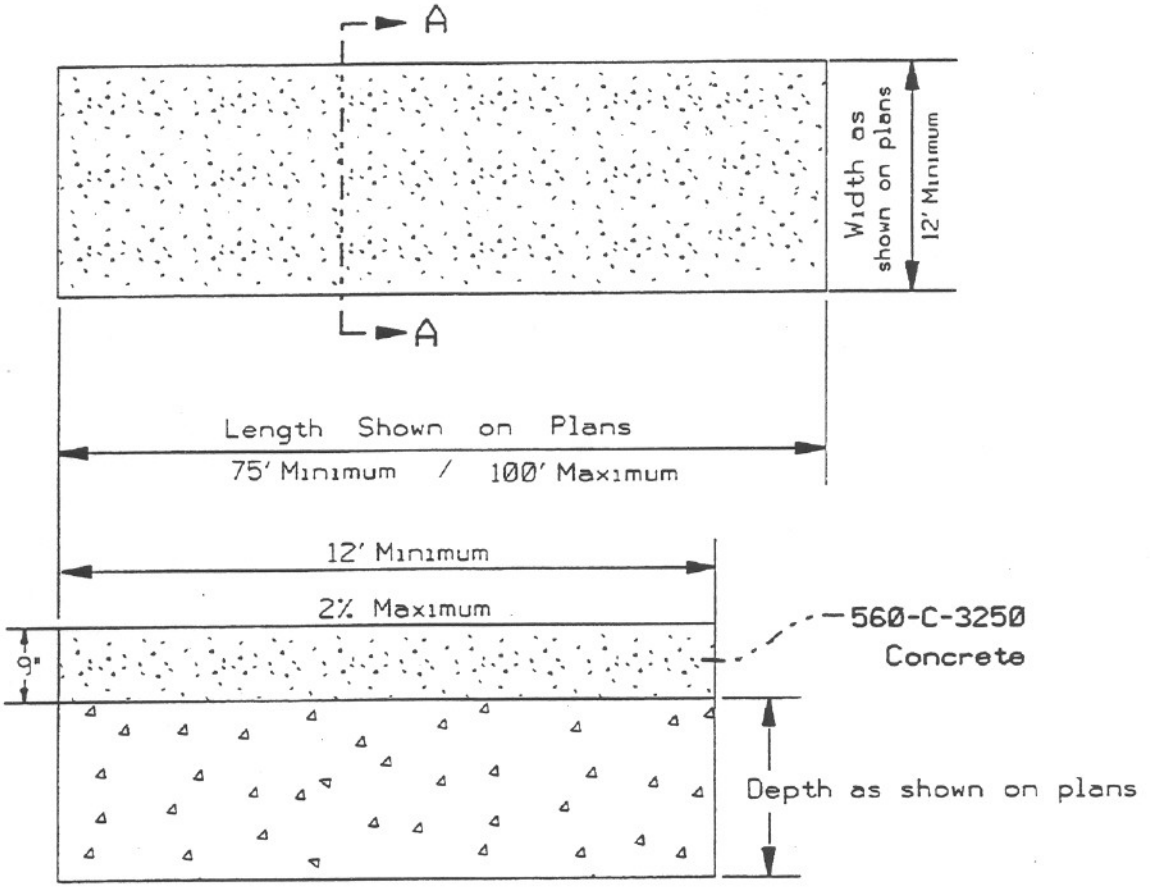
CITY OF SAN DIEGO - STANDARD DRAWING

SUPPLEMENTAL TO REGIONAL STANDARD DRAWING ( "G" SERIES )

CITY OF SAN DIEGO STANDARDS COMMITTEE

Chairperson RCE 64512 12-9-03 Date

DRAWING NUMBER SDG-100

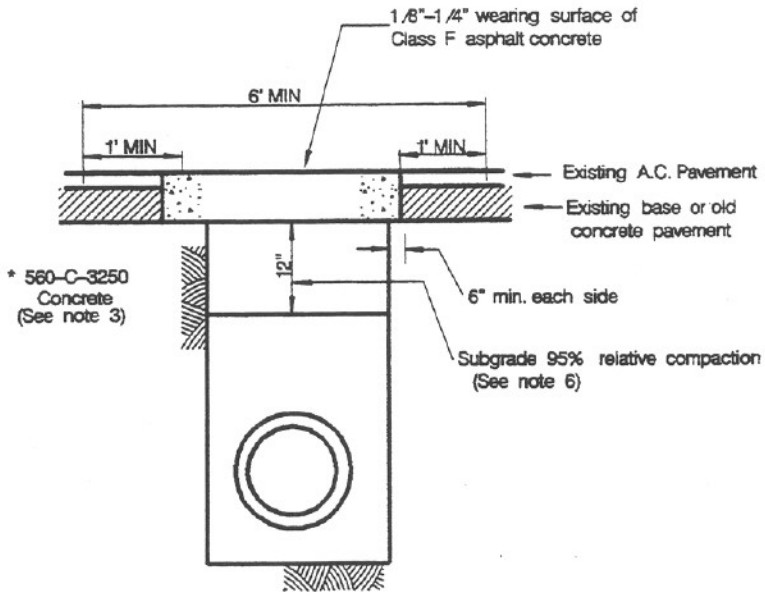



SECTION A-A

NOTES

1. Broom finish parallel with traffic.

| REVISION | BY | APPROVED | DATE | CITY OF SAN DIEGO - STANDARD DRAWINGS | CITY OF SAN DIEGO STANDARDS COMMITTEE COORDINATOR 5-2-97 DATE |
|---|---|---|---|---|---|
| ORIGINAL | | P.ARKINSON | 5-6-80 | BUS STOP SLAB | DRAWING NUMBER SDG-102 |
| REVISION | | J.C.CASEY | 6-3-83 | | |
| DRAWING | LEC | | 6-95 | | |
| MAX | G.P. | F.BELOCK | 4-96 | | |




NOTES:

1. Existing A.C. pavement shall be sawcut to a minimum depth of 1–1/2 inches or 25% of its thickness, whichever is greater, except lateral trenches in 2–lane residential streets may be jack–hammerd if approved by the Engineer. In case of an emergency endangering public safety or property, sawcutting is not required.

2. Prior to placing concrete, paving and base edges shall be trimmed to neat horizontal and vertical lines.

3. Unless otherwise specified, concrete trench cover shall be a minimum of 5–1/2 inches thick for alleys, 7 inches for local through four lane collector streets and 9 inches thick for all major or greater street classifications.

4. Only asphaltic type curing compound shall be used on the concrete trench cover. Pigmentation is not required.

5. A tack coat shall be applied to the existing A.C. pavement and concrete trench cover prior to placing the new A.C.

6. Subgrade preparation shall be done in accordance with Section 301–1 of the Standard Specifications for Public Works Construction; latest edition.

7. Any street trench 7 feet in width or greater and longer than 100 feet in overall length shall be reconstructed with the pavement section for the street classification per Schedule "J" (SDG–113). Street trench sections 7 feet in width or greater but less than 100 feet in overall length shall be resurfaced to a thickness of one inch (1") greater than required by note 3 above.

* In four–lane major or greater streets, an approved set accelerating admixture such as calcium chloride, shall be used in the concrete.

| Revision | By | Approved | Date |
|---|---|---|---|
| ORIGINAL | | J.P.Casey | 4-24-89 |
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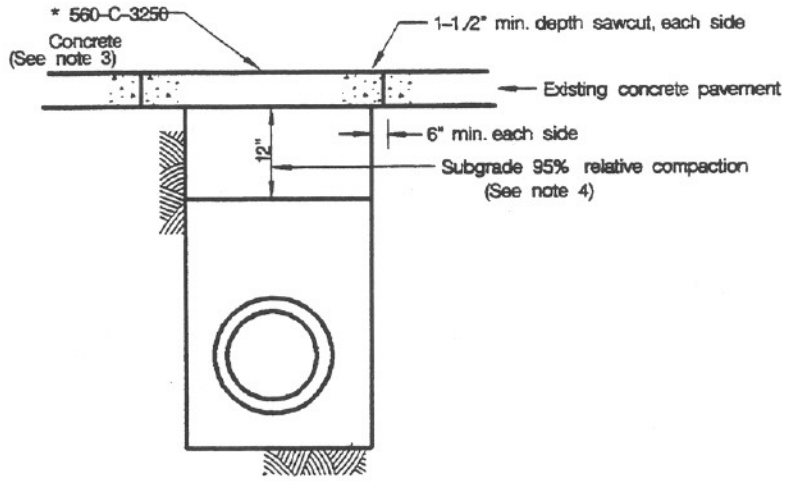
**CITY OF SAN DIEGO - STANDARD DRAWING**

# TRENCH RESURFACING FOR ASPHALT CONCRETE SURFACED STREETS

CITY OF SAN DIEGO
STANDARDS COMMITTEE

COORDINATOR R.C.E. 25902 — 2-7-95 DATE

DRAWING NUMBER **SDG-107**




NOTES:

1. Removal of the existing concrete pavement for trench excavation shall be done in accordance with Section 300-1.3 of the Standard Specifications for Public Works Construction, latest edition.

2. Prior to placing concrete, pavement edges shall be trimmed to neat horizontal and vertical lines.

3. Unless otherwise specified, concrete trench cover shall be a minimum of 5-1/2 inches thick for alleys, 7 inches for local through four lane collector streets and 9 inches thick for all major or greater street classifications.

4. Subgrade preparation shall be done in accordance with Section 301-1 of the Standard Specifications for Public Works Construction, latest edition.

5. Any street trench 7 feet in width or greater and longer than 100 feet in length shall be reconstructed with the pavement section for the street classification per Schedule "J" (SDG-113). Street trench sections 7 feet in width or greater but less than 100 feet in overall length shall be resurfaced to a thickness of one inch (1") greater than required by note 3 above.

* In four-lane major or greater streets, an approved set accelerating admixture such as calcium chloride, shall be used in the concrete.

FOR A STREET SURFACED WITH ASPHALT CONCRETE, SEE STANDARD DRAWING SDG-107.

| Revision | By | Approved | Date |
|---|---|---|---|
| ORIGINAL | | J.P.Casey | 1-24-89 |

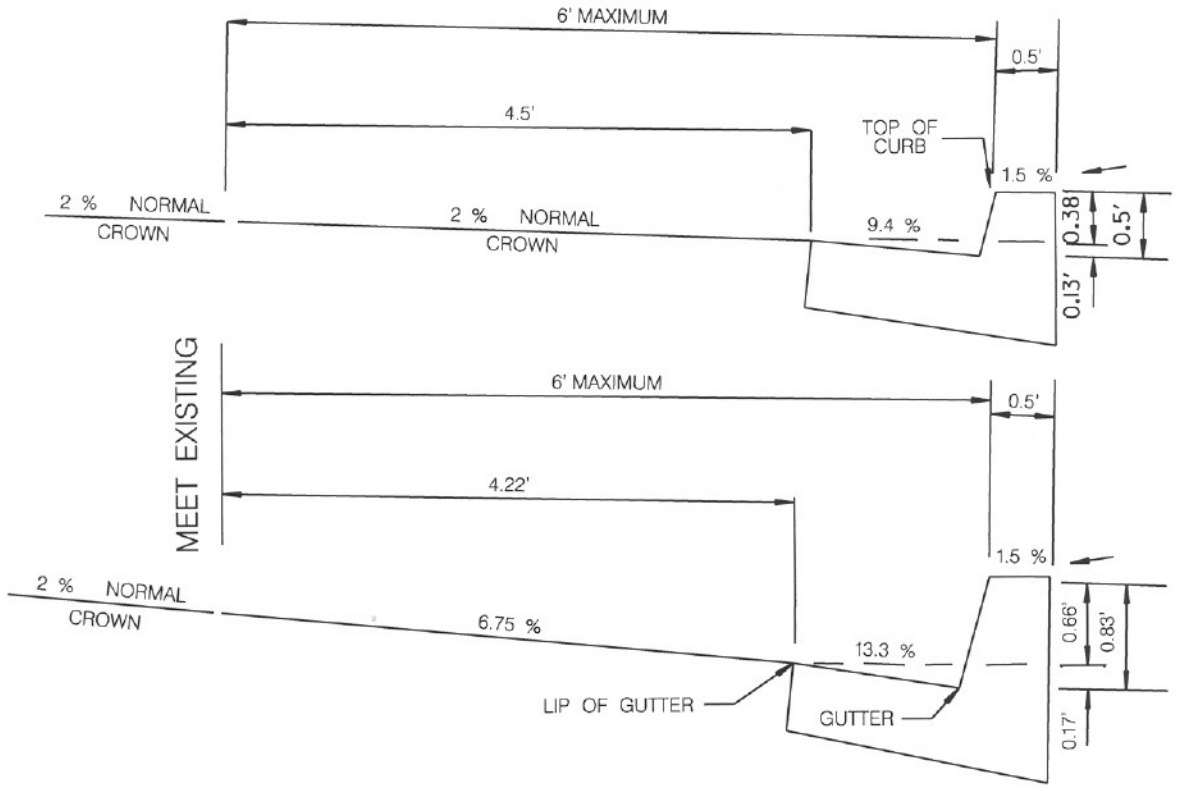
**CITY OF SAN DIEGO - STANDARD DRAWING**

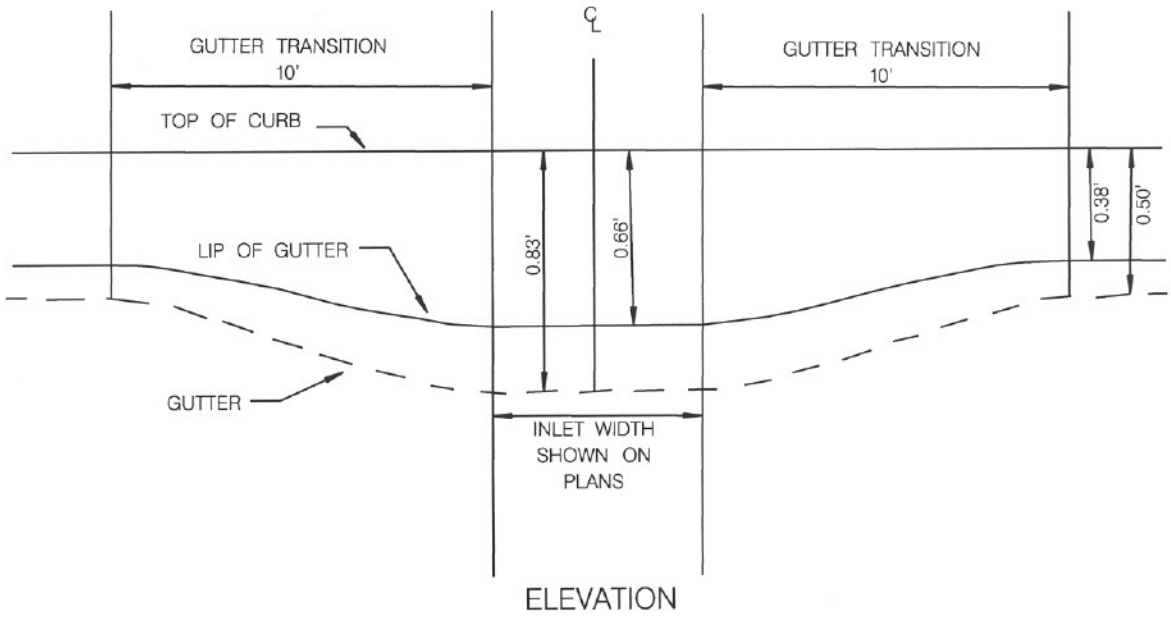
TRENCH RESURFACING FOR PCC SURFACED STREETS

CITY OF SAN DIEGO
STANDARDS COMMITTEE

COORDINATOR R.C.E. 25902 — DATE 2-7-95

DRAWING NUMBER **SDG-108**




ELEVATION

# CURB PROFILE – INLET TRANSITION

NOT TO SCALE

SHT. 1 OF 2

| Revision | By | Approved | Date |
|---|---|---|---|
| ORIGINAL | | J.P.Casey | 11-8-88 |
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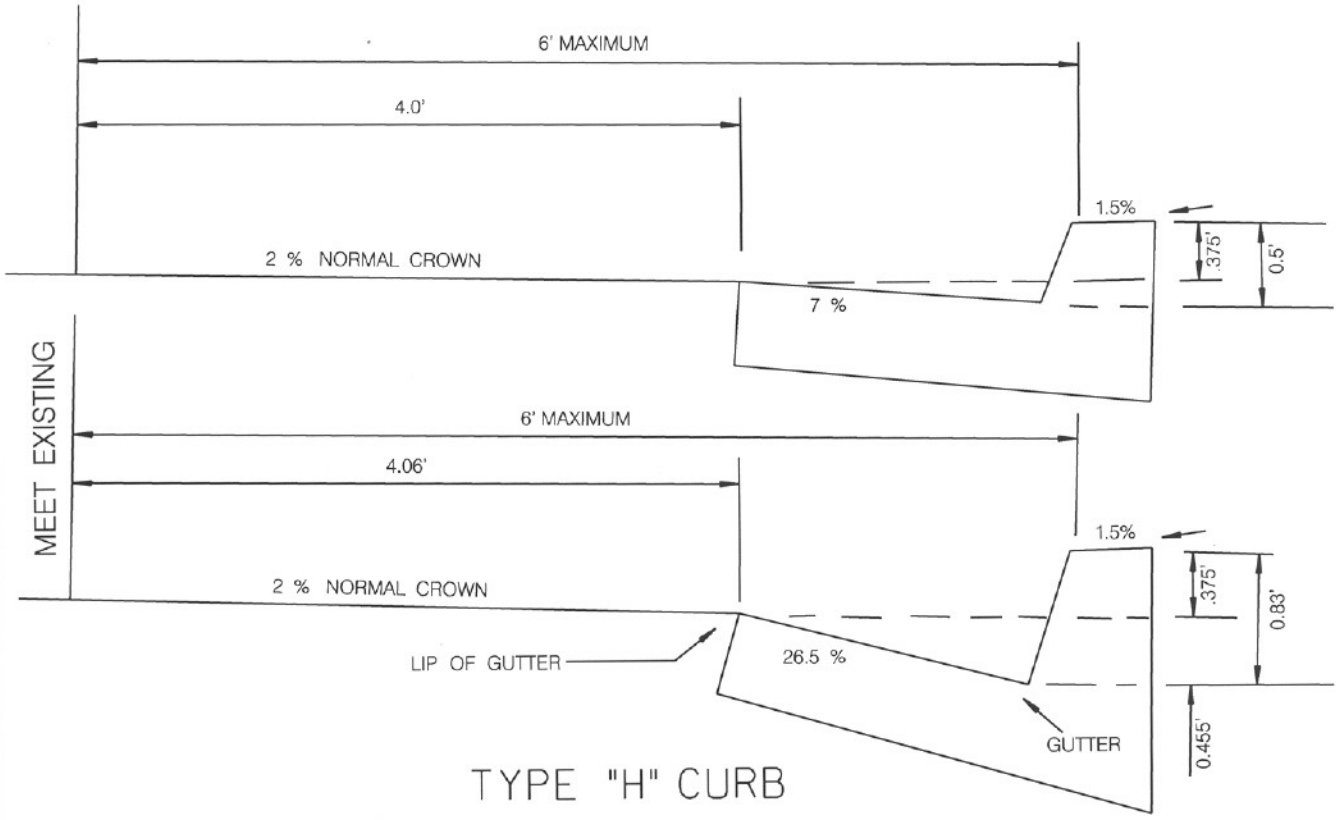
**CITY OF SAN DIEGO - STANDARD DRAWING**

**G CURB PROFILE**
**INLET TRANSITION**

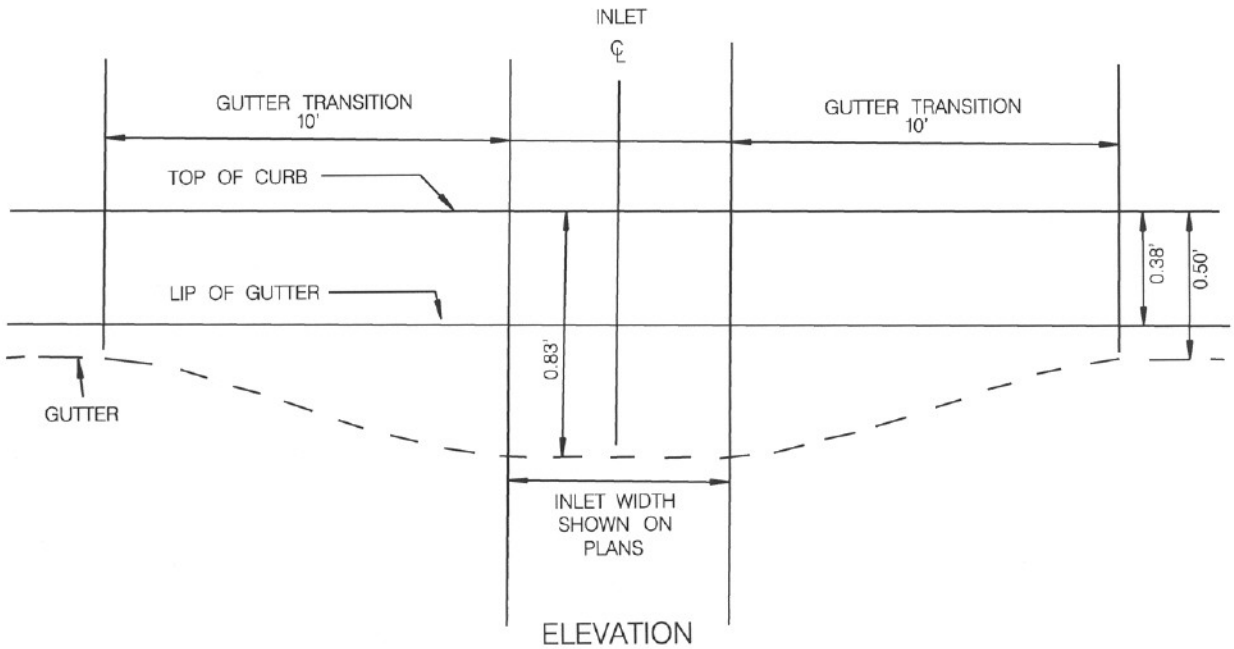
CITY OF SAN DIEGO
STANDARDS COMMITTEE

COORDINATOR R.C.E. 25902 — 2-7-95 DATE

DRAWING NUMBER **SDG-110**




TYPE "H" CURB




ELEVATION

CURB PROFILE – INLET TRANSITION

NOT TO SCALE



| Revision | By | Approved | Date |
|---|---|---|---|
| ORIGINAL | | J.P.Casey | 11-18-88 |
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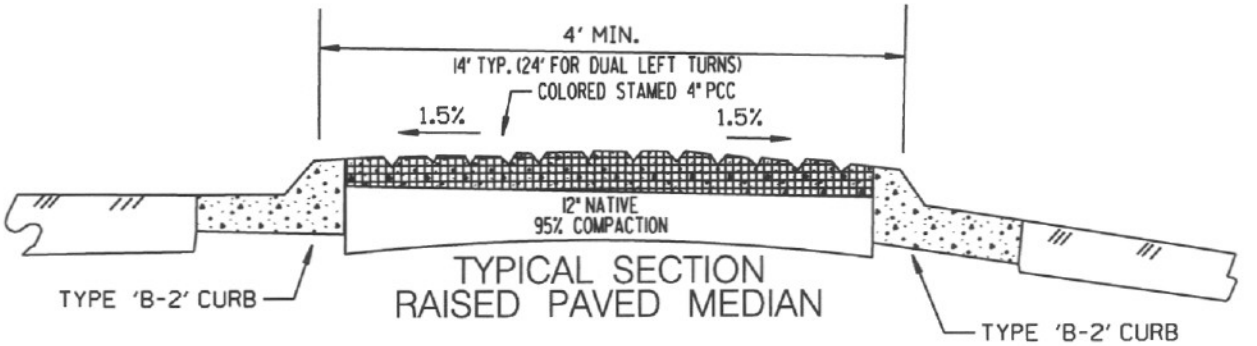
**CITY OF SAN DIEGO - STANDARD DRAWING**

**H CURB PROFILE**
**INLET TRANSITION**

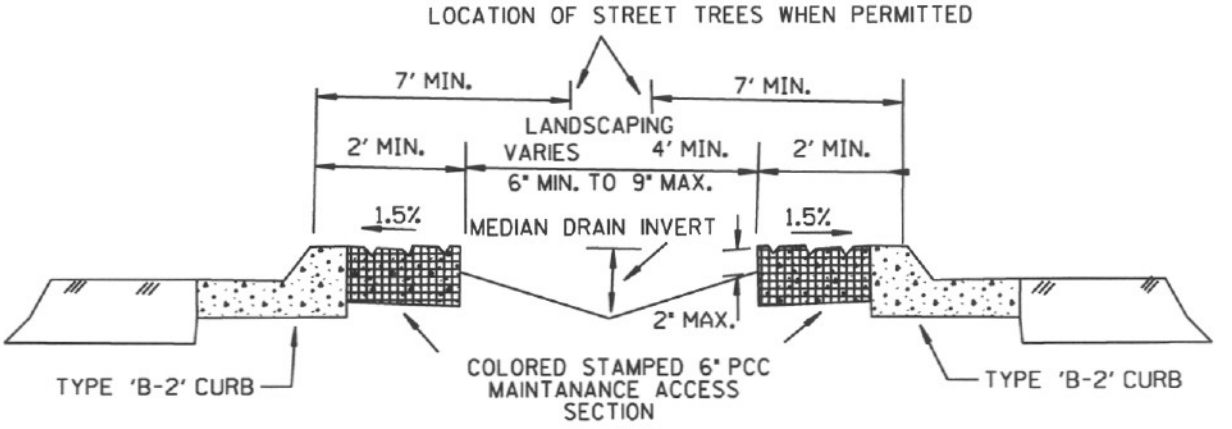
CITY OF SAN DIEGO
STANDARDS COMMITTEE

COORDINATOR R.C.E. 25902 — 2-7-95 DATE

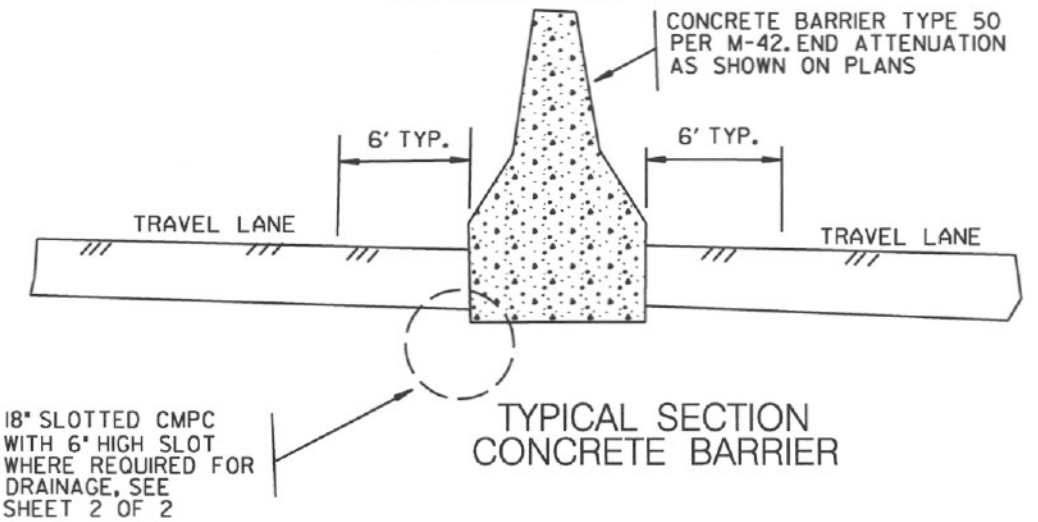
DRAWING NUMBER **SDG-110**




TYPICAL SECTION
RAISED PAVED MEDIAN




TYPICAL SECTION
LANDSCAPED MEDIAN




TYPICAL SECTION
CONCRETE BARRIER

NOTES:

1. CONCRETE SHALL BE 520-C-2500.
2. SEE STANDARD DRAWINGS G-9 & G-10 FOR JOINT DETAILS.
3. COLOR &PATTERN OF COLORED STAMPED CONCRETE SHALL BE SHOWN ON PLANS.
4. CONCRETE COLOR SHALL BE INTERGRATED THROUGHOUT.



| Revision | By | Approved | Date |
|---|---|---|---|
| ORIGINAL | | J.P.Casey | 11-10-88 |
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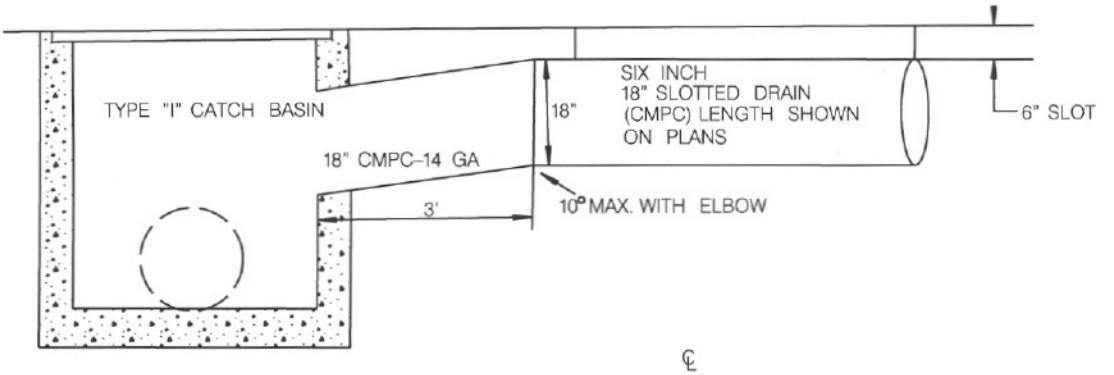
**CITY OF SAN DIEGO - STANDARD DRAWING**

**RAISED CENTER MEDIAN**

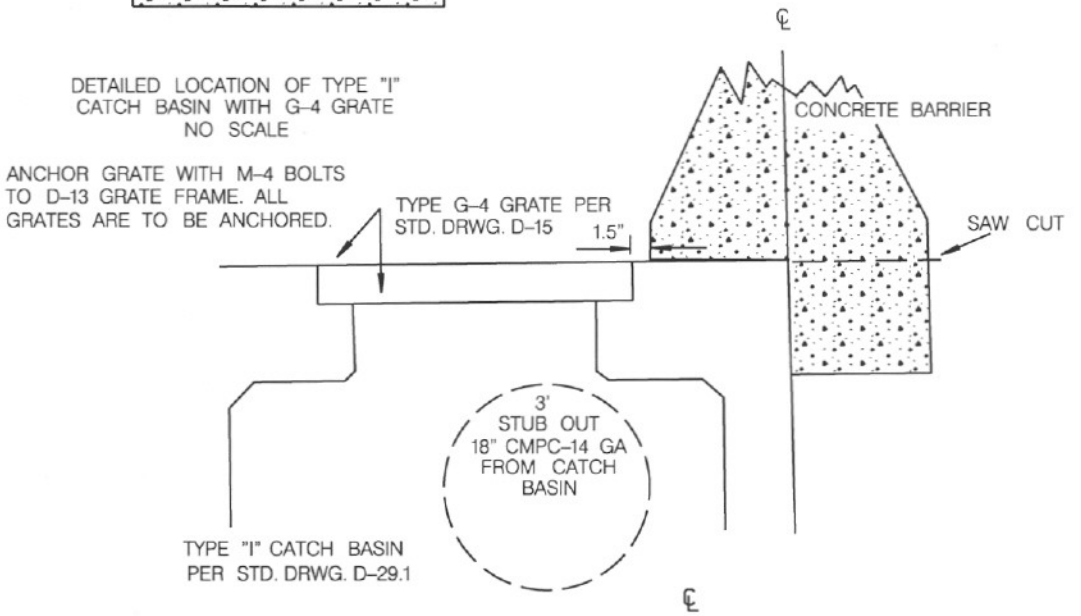
CITY OF SAN DIEGO
STANDARDS COMMITTEE

2-7-95
COORDINATOR R.C.E. 25902 DATE

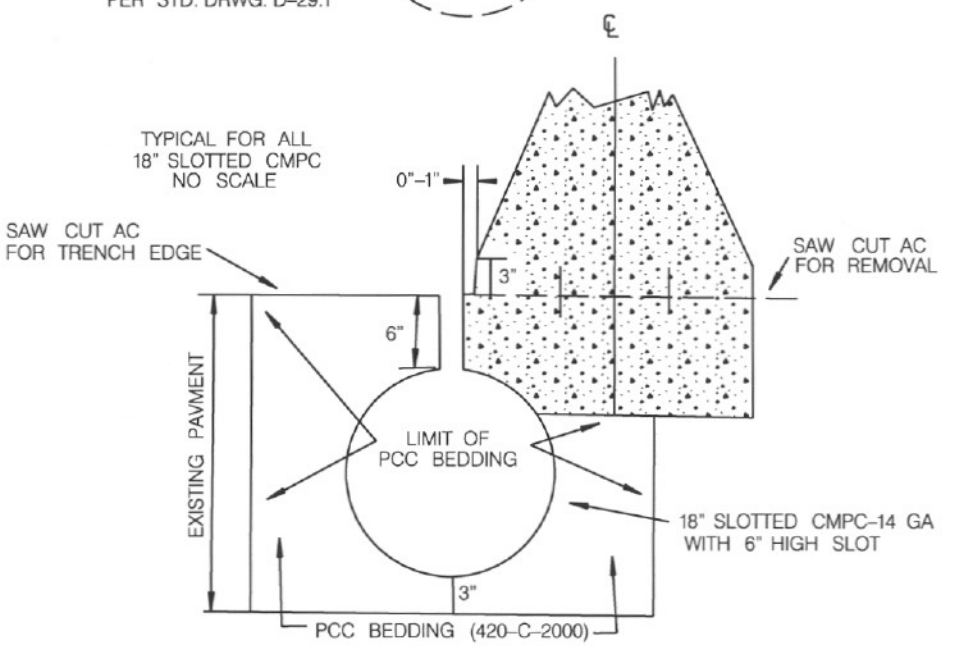
DRAWING NUMBER **SDG-112**




DETAILED LOCATION OF TYPE "I" CATCH BASIN WITH G-4 GRATE
NO SCALE




TYPICAL FOR ALL 18" SLOTTED CMPC
NO SCALE






| Revision | By | Approved | Date |
|---|---|---|---|
| ORIGINAL | | M. V. Rollinger | 5-20-92 |
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**CITY OF SAN DIEGO - STANDARD DRAWING**

# RAISED CENTER MEDIAN

CITY OF SAN DIEGO
STANDARDS COMMITTEE

2-7-95
COORDINATOR R.C.E. 25902 DATE

DRAWING NUMBER **SDG-112**

## SCHEDULE "J" PAVEMENT

The following tables are to be used to determine the Schedule "J" pavement design sections for streets, alleys, parking lots for public facilities, driveways, and easements, including public access easements. These designs shall be used in the public right-of-way, or private property in the areas where public easements are granted.

1. Resistance values (R-values) will be determined from samples taken in the 12 inches of material located immediately below the first layer of subbase, base or pavement. This 12 inch section shall represent the top 36 inches of uniform soils below the subbase, or pavement. If a lower bearing soil is encountered in this 36-inch section, the R-value will be determined from the lowest bearing soil. Determination of the R-value shall be in accordance with CalTrans test methods 301-F and 301-G.

2. Average daily traffic (ADT) is the maximum average annual ADT expected at buildout. Function shall also be considered when determining the minimum Schedule "J" pavement section per the Engineer.

3. Rigid Pavements: The design thickness shown in the tables are based on a modified Portland Cement Association (PCA) design. Projects requiring CalTrans review should utilize the design methods prescribed in the CalTrans Highway Design Manual.

4. Portland Cement Concrete (PCC) pavement shall be constructed in streets on grades greater than 12.0 percent and in alleys and in alley intersections. The pavement shall be Class 560-B-3250 concrete with a minimum modules of rupture (MOR) of 600.

5. New pavement, less than six feet (6′) in width, shall be paved with Portland Cement Concrete pavement section noted in Schedule "J" for the street classification plus a 1/8" to 1/4" Class F asphalt concrete cap. An equivalent section of lean concrete shall be substituted for any required CTB subbase.

6. Personnel from the City's Engineering Laboratory will designate where a Private Laboratory shall sample for R-values.



| REVISION | BY | APPROVED | DATE | CITY OF SAN DIEGO - STANDARD DRAWINGS | CITY OF SAN DIEGO STANDARDS COMMITTEE 5-29 COORDINATOR DATE |
|---|---|---|---|---|---|
| ORIGINAL | | M.ROLLINGER | 5-20-92 | PAVEMENT DESIGN STANDARDS SCHEDULE "J" | DRAWING NUMBER SDG-113 |
| NOTES | | G.PARKINSON | 2-7-95 | | |
| | | | | | |
| | | | | | |

| STREET CLASSIFICATION | MAX ADT | MAX TRAFFIC INDEX | "R" VALUE | STANDARD SECTIONS | | CONCRETE M.O.R. 600 MIN | | FULL DEPTH |
|---|---|---|---|---|---|---|---|---|
| | | | | A.C. (IN) | CTB (IN) | PCC (IN) | CTB (IN) | A.C. (IN) |
| CUL-DE-SAC | 200 | 5.0 | | 3.0 | 5.0 | 6.0 | --- | 4.5 |
| LOCAL (L.V.R.) | 700 | 5.5 | | 3.0 | 5.0 | 6.5 | --- | 5.0 |
| LOCAL (RES.) | 1200 | 6.0 | | 3.0 | 5.0 | 6.5 | --- | 5.5 |
| LOCAL (RES.) | 2200 | 6.5 | | 3.0 | 5.0 | 6.5 | --- | 6.0 |
| LOCAL (IND.) | 2000 | 8.5 | | 3.0 | 7.5 | 7.5 | --- | 8.5 |
| COLLECTOR (RES.) | 3500 | 7.0 | | 3.0 | 5.0 | 7.0 | --- | 6.5 |
| COLLECTOR (RES.) | 5000 | 7.5 | 50.0 OR GREATER | 3.0 | 5.5 | 7.0 | --- | 7.5 |
| COLLECTOR (COMM./IND) | 5000 | 9.5 | | 3.0 | 8.5 | 7.5 | --- | 9.0 |
| COLLECTOR (NO FRT.) | 7500 | 8.0 | | 3.0 | 6.5 | 7.0 | --- | 8.0 |
| COLLECTOR | 15000 | 9.0 | | 3.0 | 7.5 | 7.5 | --- | 8.5 |
| MAJOR (4-LANE) | 30000 | 10.5 | | 3.0 | 10.0 | 8.0 | --- | 10.5 |
| MAJOR (6-LANE) | 40000 | 11.0 | | 3.5 | 10.5 | 8.0 | --- | 11.0 |
| PRIMARY ARTERIAL | 50000 | 11.5 | | 3.5 | 11.5 | 8.0 | --- | 11.5 |
| EXPRESSWAY | 60000 | 12.0 | | 3.5 | 11.5 | 8.5 | --- | 12.0 |
| EXPRESSWAY | 80000 | 12.5 | | 4.0 | 12.0 | 8.5 | --- | 12.5 |
| EXPRESSWAY | 100000 | 13.0 | | 4.0 | 12.5 | 9.0 | --- | 13.0 |

| STREET CLASSIFICATION | MAX ADT | MAX TRAFFIC INDEX | "R" VALUE | STANDARD SECTIONS | | CONCRETE M.O.R. 600 MIN | | FULL DEPTH |
|---|---|---|---|---|---|---|---|---|
| | | | | A.C. (IN) | CTB (IN) | PCC (IN) | CTB (IN) | A.C. (IN) |
| CUL-DE-SAC | 200 | 5.0 | | 3.0 | 5.0 | 6.5 | --- | 5.0 |
| LOCAL (L.V.R.) | 700 | 5.5 | | 3.0 | 5.0 | 6.5 | --- | 6.0 |
| LOCAL (RES.) | 1200 | 6.0 | | 3.0 | 5.5 | 7.0 | --- | 6.5 |
| LOCAL (RES.) | 2200 | 6.5 | | 3.0 | 6.0 | 7.0 | --- | 7.0 |
| LOCAL (IND.) | 2000 | 8.5 | | 3.0 | 9.5 | 7.5 | --- | 9.5 |
| COLLECTOR (RES.) | 3500 | 7.0 | | 3.0 | 6.5 | 7.0 | --- | 8.0 |
| COLLECTOR (RES.) | 5000 | 7.5 | 40 TO 49.9 | 3.0 | 7.5 | 7.5 | --- | 8.5 |
| COLLECTOR (COMM./IND) | 5000 | 9.5 | | 3.0 | 11.0 | 8.0 | --- | 11.0 |
| COLLECTOR (NO FRT.) | 7500 | 8.0 | | 3.0 | 8.5 | 7.5 | --- | 9.0 |
| COLLECTOR | 15000 | 9.0 | | 3.0 | 10.5 | 8.0 | --- | 10.0 |
| MAJOR (4-LANE) | 30000 | 10.5 | | 3.5 | 12.5 | 8.5 | --- | 12.0 |
| MAJOR (6-LANE) | 40000 | 11.0 | | 4.0 | 12.5 | 8.5 | --- | 12.5 |
| PRIMARY ARTERIAL | 50000 | 11.5 | | 4.0 | 13.5 | 9.0 | --- | 13.0 |
| EXPRESSWAY | 60000 | 12.0 | | 4.5 | 13.5 | 9.0 | --- | 13.5 |
| EXPRESSWAY | 80000 | 12.5 | | 4.5 | 14.5 | 9.5 | --- | 14.0 |
| EXPRESSWAY | 100000 | 13.0 | | 5.0 | 15.0 | 10.0 | --- | 15.0 |



| REVISION | BY | APPROVED | DATE |
|---|---|---|---|
| ORIGINAL | | J.P.CASEY | 1-12-84 |
| REVISED | | G.PARKINSON | 2-7-95 |
| | | | |
| | | | |

**CITY OF SAN DIEGO - STANDARD DRAWINGS**

CITY OF SAN DIEGO STANDARDS COMMITTEE

5-2-95

COORDINATOR DATE

# PAVEMENT DESIGN STANDARDS SCHEDULE "J"

DRAWING NUMBER

**SDG-113**

| STREET CLASSIFICATION | MAX ADT | MAX TRAFFIC INDEX | "R" VALUE | STANDARD SECTIONS | | CONCRETE M.O.R. 600 MIN | | FULL DEPTH |
|---|---|---|---|---|---|---|---|---|
| | | | | A.C. (IN) | CTB (IN) | PCC (IN) | CTB (IN) | A.C. (IN) |
| CUL-DE-SAC | 200 | 5.0 | | 3.0 | 5.0 | 6.5 | --- | 6.0 |
| LOCAL (L.V.R.) | 700 | 5.5 | | 3.0 | 5.5 | 7.0 | --- | 6.5 |
| LOCAL (RES.) | 1200 | 6.0 | | 3.0 | 6.5 | 7.0 | --- | 7.0 |
| LOCAL (RES.) | 2200 | 6.5 | | 3.0 | 7.5 | 7.0 | --- | 8.0 |
| LOCAL (IND.) | 2000 | 8.5 | | 3.0 | 11.5 | 8.0 | --- | 10.5 |
| COLLECTOR (RES.) | 3500 | 7.0 | | 3.0 | 8.5 | 7.5 | --- | 8.5 |
| COLLECTOR (RES.) | 5000 | 7.5 | 30 TO | 3.0 | 9.5 | 7.5 | --- | 9.0 |
| COLLECTOR (COMM./IND) | 5000 | 9.5 | 39.9 | 3.5 | 13.0 | 8.5 | --- | 12.0 |
| COLLECTOR (NO FRT.) | 7500 | 8.0 | | 3.0 | 10.5 | 7.5 | --- | 10.0 |
| COLLECTOR | 15000 | 9.0 | | 3.5 | 12.0 | 8.0 | --- | 11.0 |
| MAJOR (4-LANE) | 30000 | 10.5 | | 4.0 | 14.5 | 8.5 | --- | 13.5 |
| MAJOR (6-LANE) | 40000 | 11.0 | | 4.5 | 15.0 | 9.0 | --- | 14.0 |
| PRIMARY ARTERIAL | 50000 | 11.5 | | 5.0 | 15.5 | 9.0 | --- | 14.5 |
| EXPRESSWAY | 60000 | 12.0 | | 5.0 | 16.5 | 9.5 | --- | 15.0 |
| EXPRESSWAY | 80000 | 12.5 | | 5.5 | 17.0 | 9.5 | --- | 16.0 |
| EXPRESSWAY | 100000 | 13.0 | | 6.0 | 17.0 | 10.0 | --- | 17.0 |

| STREET CLASSIFICATION | MAX ADT | MAX TRAFFIC INDEX | "R" VALUE | STANDARD SECTIONS | | CONCRETE M.O.R. 600 MIN | | FULL DEPTH |
|---|---|---|---|---|---|---|---|---|
| | | | | A.C. (IN) | CTB (IN) | PCC (IN) | CTB (IN) | A.C. (IN) |
| CUL-DE-SAC | 200 | 5.0 | | 3.0 | 5.5 | 7.0 | --- | 6.5 |
| LOCAL (L.V.R.) | 700 | 5.5 | | 3.0 | 7.0 | 7.0 | --- | 7.5 |
| LOCAL (RES.) | 1200 | 6.0 | | 3.0 | 8.0 | 7.0 | --- | 8.0 |
| LOCAL (RES.) | 2200 | 6.5 | | 3.0 | 9.0 | 7.5 | --- | 8.5 |
| LOCAL (IND.) | 2000 | 8.5 | | 3.5 | 13.0 | 8.0 | --- | 11.5 |
| COLLECTOR (RES.) | 3500 | 7.0 | | 3.0 | 10.0 | 7.5 | --- | 9.0 |
| COLLECTOR (RES.) | 5000 | 7.5 | 20 TO | 3.0 | 11.5 | 7.5 | --- | 10.0 |
| COLLECTOR (COMM./IND) | 5000 | 9.5 | 29.9 | 4.0 | 15.0 | 8.5 | --- | 13.0 |
| COLLECTOR (NO FRT.) | 7500 | 8.0 | | 3.5 | 12.0 | 8.0 | --- | 11.0 |
| COLLECTOR | 15000 | 9.0 | | 4.0 | 13.5 | 8.5 | --- | 12.0 |
| MAJOR (4-LANE) | 30000 | 10.5 | | 5.0 | 16.0 | 8.5 | 5.0 | 14.5 |
| MAJOR (6-LANE) | 40000 | 11.0 | | 5.0 | 17.0 | 8.5 | 5.0 | 15.5 |
| PRIMARY ARTERIAL | 50000 | 11.5 | | 5.5 | 17.5 | 9.0 | 5.0 | 16.0 |
| EXPRESSWAY | 60000 | 12.0 | | 6.0 | 18.0 | 9.0 | 5.0 | 17.0 |
| EXPRESSWAY | 80000 | 12.5 | | 6.0 | 19.5 | 9.5 | 5.0 | 17.5 |
| EXPRESSWAY | 100000 | 13.0 | | 6.5 | 20.0 | 10.0 | 5.0 | 18.5 |



| REVISION | BY | APPROVED | DATE |
|---|---|---|---|
| ORIGINAL | | J.P.CASEY | 1-12-84 |
| REVISED | | G.PARKINSON | 2-7-95 |
| | | | |
| | | | |

**CITY OF SAN DIEGO - STANDARD DRAWINGS**

CITY OF SAN DIEGO STANDARDS COMMITTEE

COORDINATOR 5-2-97 DATE

# PAVEMENT DESIGN STANDARDS SCHEDULE "J"

DRAWING NUMBER

**SDG-113**

| STREET CLASSIFICATION | MAX ADT | MAX TRAFFIC INDEX | "R" VALUE | STANDARD SECTIONS | | CONCRETE M.O.R. 600 MIN | | FULL DEPTH |
|---|---|---|---|---|---|---|---|---|
| | | | | A.C. (IN) | CTB (IN) | PCC (IN) | CTB (IN) | A.C. (IN) |
| CUL-DE-SAC | 200 | 5.0 | | 3.0 | 7.0 | 7.0 | --- | 7.5 |
| LOCAL (L.V.R.) | 700 | 5.5 | | 3.0 | 8.0 | 7.0 | --- | 8.0 |
| LOCAL (RES.) | 1200 | 6.0 | | 3.0 | 9.0 | 7.5 | --- | 8.5 |
| LOCAL (RES.) | 2200 | 6.5 | | 3.0 | 10.5 | 7.5 | --- | 9.0 |
| LOCAL (IND.) | 2000 | 8.5 | | 4.0 | 14.5 | 8.0 | 5.0 | 12.5 |
| COLLECTOR (RES.) | 3500 | 7.0 | | 3.0 | 12.0 | 7.5 | --- | 10.0 |
| COLLECTOR (RES.) | 5000 | 7.5 | 10 TO 19.9 | 3.5 | 12.5 | 8.0 | --- | 11.0 |
| COLLECTOR (COMM./IND) | 5000 | 9.5 | | 4.5 | 16.5 | 8.5 | 5.0 | 14.0 |
| COLLECTOR (NO FRT.) | 7500 | 8.0 | | 3.5 | 14.0 | 8.0 | --- | 11.5 |
| COLLECTOR | 15000 | 9.0 | | 4.5 | 15.0 | 8.0 | 5.0 | 13.0 |
| MAJOR (4-LANE) | 30000 | 10.5 | | 5.5 | 18.0 | 8.5 | 6.0 | 15.5 |
| MAJOR (6-LANE) | 40000 | 11.0 | | 6.0 | 18.5 | 9.0 | 6.0 | 16.5 |
| PRIMARY ARTERIAL | 50000 | 11.5 | | 6.0 | 20.0 | 9.0 | 6.0 | 17.5 |
| EXPRESSWAY | 60000 | 12.0 | | 6.5 | 20.5 | 9.0 | 6.0 | 18.5 |
| EXPRESSWAY | 80000 | 12.5 | | 7.0 | 21.5 | 9.5 | 6.0 | 19.0 |
| EXPRESSWAY | 100000 | 13.0 | | 7.5 | 22.5 | 10.0 | 6.0 | 20.0 |

| STREET CLASSIFICATION | MAX ADT | MAX TRAFFIC INDEX | "R" VALUE | STANDARD SECTIONS | | CONCRETE M.O.R. 600 MIN | | FULL DEPTH |
|---|---|---|---|---|---|---|---|---|
| | | | | A.C. (IN) | CTB (IN) | PCC (IN) | CTB (IN) | A.C. (IN) |
| CUL-DE-SAC | 200 | 5.0 | | 3.0 | 8.0 | 7.0 | --- | 8.5 |
| LOCAL (L.V.R.) | 700 | 5.5 | | 3.0 | 9.5 | 7.5 | --- | 9.0 |
| LOCAL (RES.) | 1200 | 6.0 | | 3.0 | 10.5 | 7.5 | --- | 9.5 |
| LOCAL (RES.) | 2200 | 6.5 | | 3.0 | 12.5 | 7.5 | --- | 10.5 |
| LOCAL (IND.) | 2000 | 8.5 | | 4.5 | 16.0 | 8.0 | 5.0 | 14.0 |
| COLLECTOR (RES.) | 3500 | 7.0 | | 3.5 | 13.0 | 7.5 | --- | 11.5 |
| COLLECTOR (RES.) | 5000 | 7.5 | 0 TO 9.9 | 3.5 | 14.5 | 8.0 | --- | 12.5 |
| COLLECTOR (COMM./IND) | 5000 | 9.5 | | 5.0 | 18.5 | 8.5 | 6.0 | 15.5 |
| COLLECTOR (NO FRT.) | 7500 | 8.0 | | 4.0 | 15.5 | 8.0 | 5.0 | 13.0 |
| COLLECTOR | 15000 | 9.0 | | 5.0 | 17.0 | 8.5 | 5.0 | 14.5 |
| MAJOR (4-LANE) | 30000 | 10.5 | | 6.0 | 20.0 | 9.0 | 6.0 | 17.5 |
| MAJOR (6-LANE) | 40000 | 11.0 | | 6.5 | 21.0 | 9.0 | 6.0 | 18.5 |
| PRIMARY ARTERIAL | 50000 | 11.5 | | 7.0 | 22.0 | 9.0 | 6.0 | 19.5 |
| EXPRESSWAY | 60000 | 12.0 | | 7.0 | 23.0 | 9.5 | 6.0 | 20.5 |
| EXPRESSWAY | 80000 | 12.5 | | 7.5 | 24.0 | 10.0 | 6.0 | 21.5 |
| EXPRESSWAY | 100000 | 13.0 | | 8.0 | 25.0 | 10.5 | 6.0 | 22.0 |



| REVISION | BY | APPROVED | DATE |
|---|---|---|---|
| ORIGINAL | | J.P.CASEY | 1-12-84 |
| REVISED | | G.PARKINSON | 2-7-95 |
| | | | |
| | | | |

**CITY OF SAN DIEGO - STANDARD DRAWINGS**

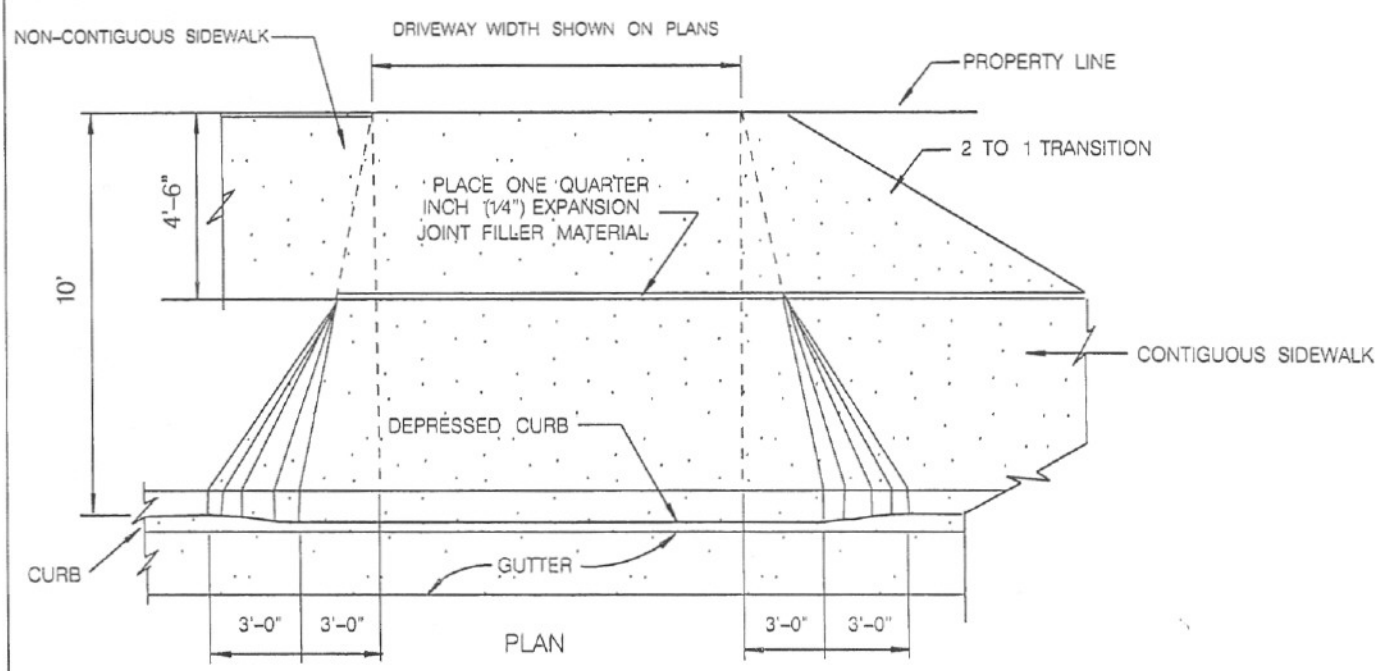
CITY OF SAN DIEGO STANDARDS COMMITTEE

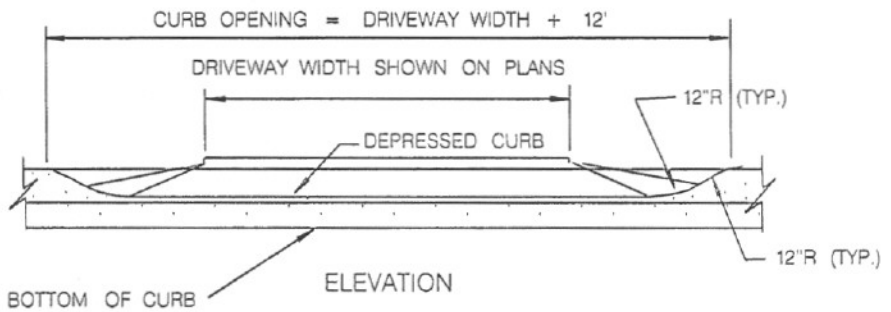
COORDINATOR DATE

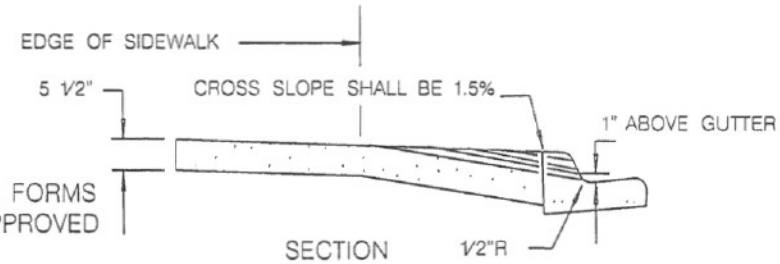
# PAVEMENT DESIGN STANDARDS SCHEDULE "J"

DRAWING NUMBER

**SDG-113**



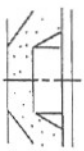



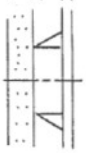




NOTES:

1. CONCRETE SHALL NOT BE PLACED UNTIL FORMS AND SUBGRADE ARE INSPECTED AND APPROVED BY ENGINEER
2. CONCRETE SHALL BE 520-C-2500
3. SEE STANDARD DRAWING G-15 AND G-16 FOR WIDTH AND LOCATION REQUIREMENTS.
4. SEE STANDARD DRAWING G-2 AND G-10 FOR CURB AND JOINT DETAILS
5. METER BOXES SHALL NOT BE LOCATED WITHIN DRIVEWAY - SEE W-15
6. DRIVEWAY IN EXCESS OF 150' IN LENGTH FROM CURB FACE SHALL REQUIRE MINIMUM 7" P.C.C.
7. DRIVEWAY SHALL BE A CONTINUOUS POUR FROM BACK OF CURB TO PROPERTY LINE.
8. ALL HISTORICAL STAMPS/IMPRESSIONS (STREET NAME, CONTRACTOR NAME, AND/OR DATE) SHALL BE PRESERVED PER STANDARD DRAWING SDG-115
9. FOR DESIGNATED URBANIZED COMMUNITIES, SIDEWALK DESIGN (SCORING PATTERN, COLOR, TEXTURE) TO BE IN CONFORMANCE WITH HISTORIC DESIGN ON ADJACENT PROPERTIES.

LEGEND ON PLANS




| Revision | By | Approved | Date |
|---|---|---|---|
| ORIGINAL | | M.V. ROLLINGER | 5-20-92 |
| NOTES | | G. PARKINSON | 2-7-95 |
| NOTES | SM | Oskoui | 2-9-03 |
| | | | |
| | | | |

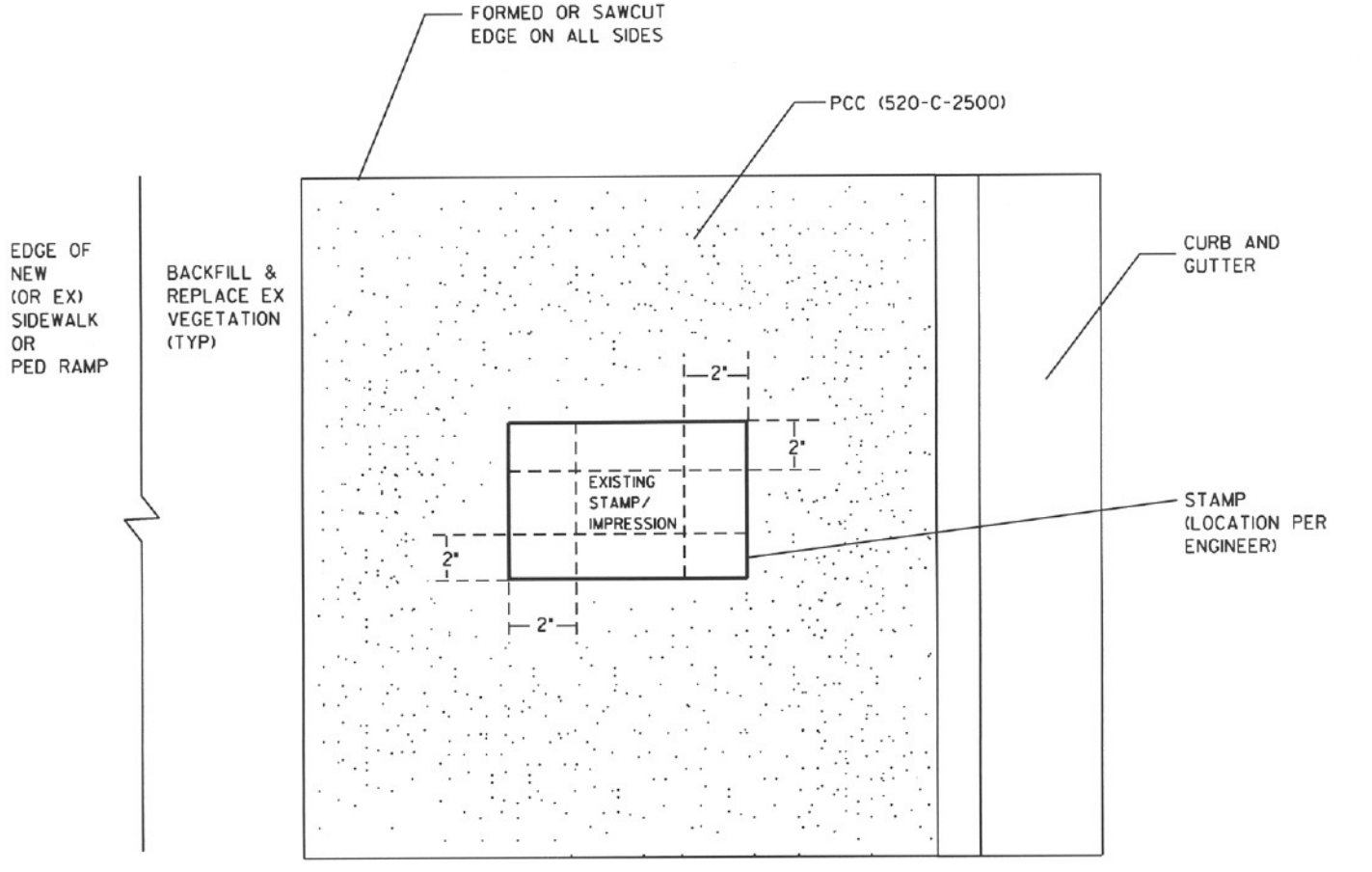
CITY OF SAN DIEGO - STANDARD DRAWING

# COMMERCIAL CONCRETE DRIVEWAY

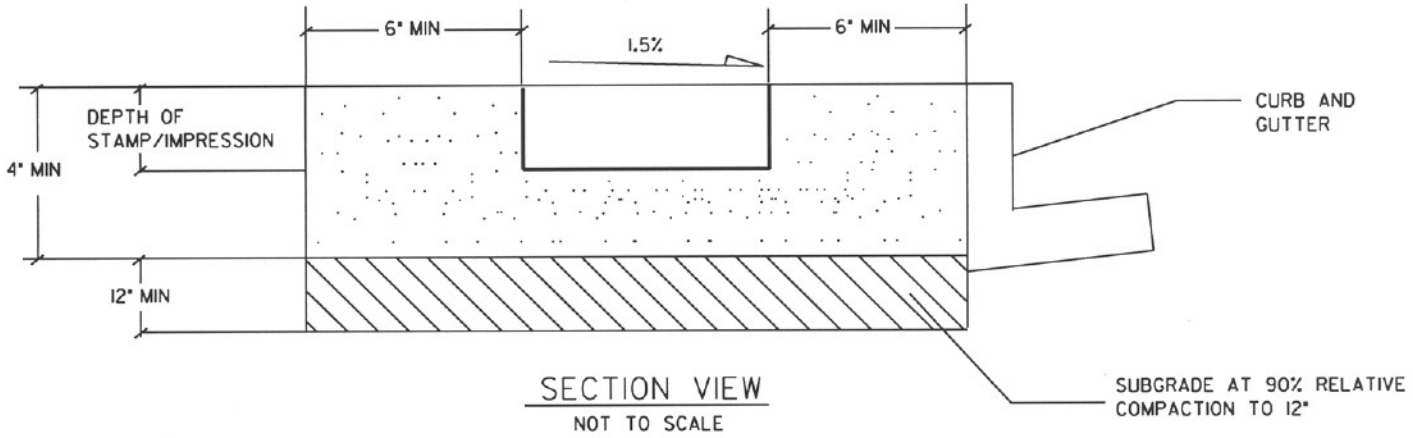
CITY OF SAN DIEGO STANDARDS COMMITTEE

Chairperson RCE 64512 — 12-9-03 DATE

DRAWING NUMBER SDG-114




PLAN VIEW
NOT TO SCALE




SECTION VIEW
NOT TO SCALE

NOTES:

1. ALL STAMP/IMPRESSION LOCATIONS AND ORIENTATIONS SHALL BE PRE-APPROVED BY THE ENGINEER.
2. SINGLE STAMP/IMPRESSION SHALL BE PLACED AS CLOSE TO ITS ORIGINAL LOCATION AS CONSTRUCTION ALLOWS.
3. MULTIPLE STAMPS/IMPRESSIONS (EXISTING AND/OR NEW) SHALL BE EVENLY SPACED ALONG THE NEWLY CONSTRUCTED SIDEWALK
4. EXISTING STAMP/IMPRESSION SHALL BE SAWCUT TO NO LESS THAN 2" FROM STAMP LETTERING AND/OR SYMBOL
5. INSTALLATION OF ALL NEW STAMPS/IMPRESSIONS SHALL BE PER GREENBOOK SPECIFICATION SECTION 303-5.5

| Revision | By | Approved | Date |
|---|---|---|---|
| ORIGINAL | NBZ | J. SHOAF | 8/00 |
| DETAIL | SM | A. OSKOUI | 12/03 |
| | | | |
| | | | |
| | | | |

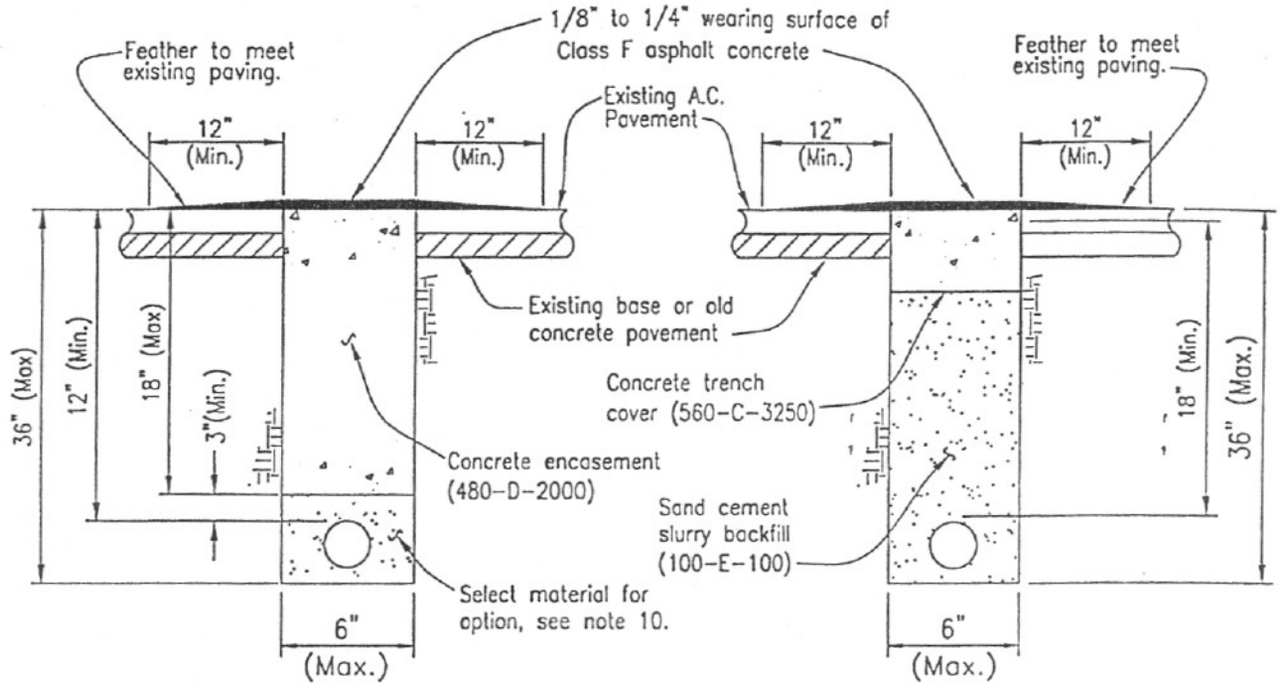
CITY OF SAN DIEGO - STANDARD DRAWING

EXISTING STAMP/IMPRESSION PLACEMENT

CITY OF SAN DIEGO
STANDARDS COMMITTEE

Chairperson RCE 64572 — Date 6-14-04

DRAWING NUMBER SDG-115




## NOTES

1. Concrete encasement or sand cement slurry backfill shall have a minimum slump of 4 inches.
2. Concrete encasement and sand cement slurry backfill shall be thoroughly consolidated to encase conduits. Tampers or vibrators shall be used.
3. Concrete shall be screeded off to match pavement grade and floated to assure proper edge match.
4. A tack coat shall be applied to the concrete and existing asphalt pavement prior to placing the new asphalt pavement wearing surface.
5. Existing A.C. pavement will not require saw cutting when using rockwheel for excavation.
6. Concrete trench cover shall be a minimum 5-1/2 inches thick in alleys or local residential streets, and 7 inches thick in all other streets.
7. Allow concrete backfill or concrete trench cover 7 calendar days minimum, but no longer than 30 calendar days to cure and dry before applying the asphalt concrete wearing surface.
8. In major or prime arterial streets, an approved set accelerating admixture, such as calcium chloride, may be used only with prior approval of the agency's Engineer.
9. Only Type A shall be permitted for supply cables of 750 volts or less. See California Public Utility Commission General Order No. 128, Rule 33.4 D.(1)(b).
10. Selected material with minimum sand equivalent of 50 shall be backfilled to 3 inches minimum above the conduit. Sand cement slurry backfill (100-E-100) may be substituted for select material.

| Revision | By | Approved | Date |
|---|---|---|---|
| ORIGINAL | | Bahmanian | 4/86 |
| | | A. Oskoui | 12/03 |
| | | | |
| | | | |
| | | | |

SAN DIEGO REGIONAL STANDARD DRAWING

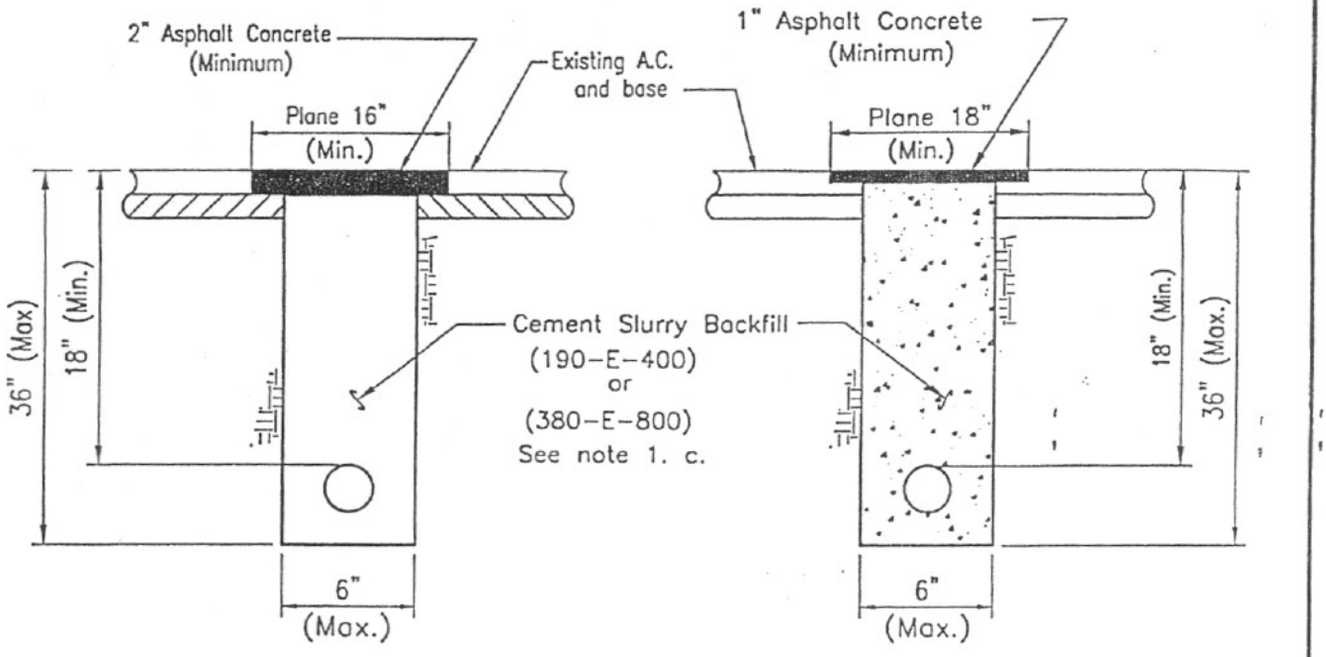
# NARROW TRENCHING TYPES A & B BACKFILL & RESURFACING

CITY OF SAN DIEGO STANDARDS COMMITTEE

12-9-03

Chairperson R.C.E. 64572 Date

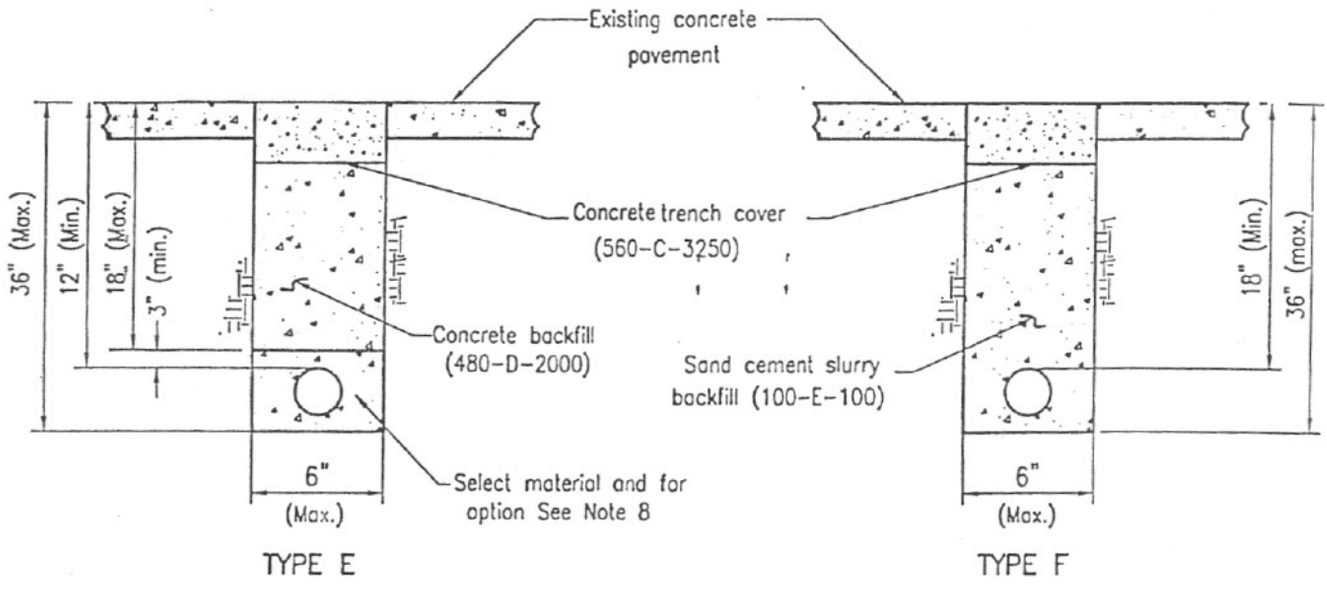
DRAWING NUMBER SDG-116




NOTES

1. Cement Slurry Backfill:
   a. Cement slurry backfill shall have a maximum slump of 4 inches.
   b. Cement slurry backfill shall be thoroughly consolidated to encase conduits. Tampers or vibrators shall be used.
   c. Cement slurry backfill shall be as follows:
      Alleys and local residential streets ..... Class (190-E-400)
      All other streets ..... Class (380-E-800)
2. A tack coat shall be applied to the cement slurry backfill and existing asphalt pavement prior to placing the new asphalt surface.
3. Asphaltic Concrete Resurfacing:
   Type C
   a. Allow cement slurry backfill 48 hours minimum to cure before resurfacing, unless approved by the Engineer.
   b. Thickness shall match the existing A.C. with a minimum of 2 inches.
   c. A.C. shall be hot mix.
   Type D
   a. Allow cement slurry backfill seven days minimum to cure before planing.
   b. Plane existing asphalt pavement and slurry backfill, one half thickness of existing A.C., (1 inch minimum not to exceed 2 inches).
   c. A.C. shall be hot mix.
4. A.C. resurfacing shall be sealed or chip sealed when required by the agency's Engineer.
5. Existing A.C. pavement will not require sawcutting when using rockwheel for excavation.

| CITY OF SAN DIEGO STANDARDS COMMITTEE | SAN DIEGO REGIONAL STANDARD DRAWING | Revision | By | Approved | Date |
|---|---|---|---|---|---|
| | | Note 3a | NL | RLM | 1/97 |
| | | | | A. Oskoui | 12/03 |
| 12-9-03 Chairperson R.C.E. 64572 Date | NARROW TRENCHING TYPES C & D BACKFILL & RESURFACING | | | | |
| DRAWING NUMBER SDG-117 | | | | | |




NOTES

1. Concrete slurry backfill shall have a maximum slump of 4 inches.
2. Cement slurry backfill shall be thoroughly consolidated to encase conduits. Tampers or vibrators shall be used.
3. Concrete shall be screeded off to match existing pavement grade and floated to assure proper edge match.
4. Concrete trench cover shall be a minimum of 5 1/2 inches thick in alley or local residential streets and 7 inches thick in all other streets.
5. Existing concrete pavement will require sawcutting when using rockwheel for excavation.
6. In major or prime arterial streets, an approved set accelerating admixture, such as Calcium Chloride, may be used only with prior approval of the agency's engineer.
7. Only Type E shall be permitted for supply cables of 750 volts or less. See California Public Utility Commission General Order No. 128, Rule 33.4 (1)(b).
8. Select material with a minimum sand equivalent of 50 shall be backfilled to 3" min. above the conduit. Sand cement slurry backfill (100-E-100) may be substituted for select material.

| Revision | By | Approved | Date |
|---|---|---|---|
| ORIGINAL | | Bahmanian | 4/86 |
| | | A. Oskoui | 12/03 |
| | | | |
| | | | |
| | | | |

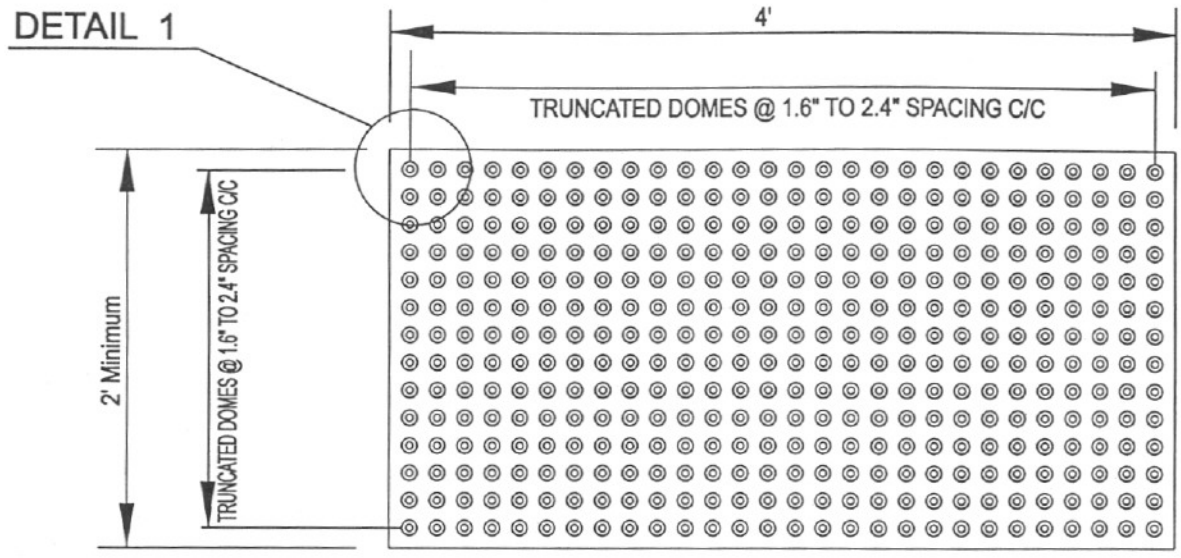
SAN DIEGO REGIONAL STANDARD DRAWING

# NARROW TRENCHING TYPES E & F BACKFILL & RESURFACING

CITY OF SAN DIEGO STANDARDS COMMITTEE

Chairperson R.C.E. 34572 — Date 12-9-03

DRAWING NUMBER SDG-118

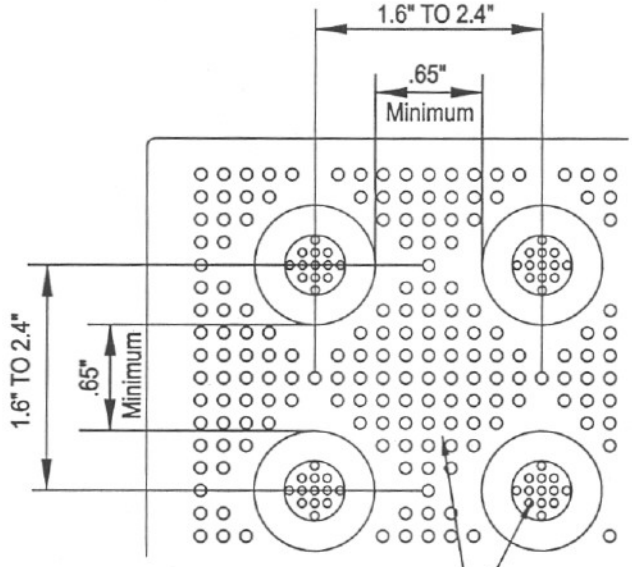


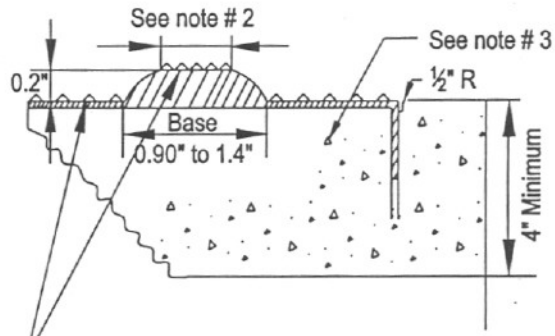

## PLAN - TILE

NOT TO SCALE

### NOTES

1. Detectable warning surface color shall be yellow conforming to federal standards 595B Table IV, color no. 33538. Color shall be homogeneous throughout the tile.
2. Truncated dome top diameter of 50% of the base diameter minimum to 65% of the base diameter maximum.
3. During and after the tile installation and the concrete curing stage, it is imperative that there is no walking, leaning or external forces placed on the tile to rock the tile, causing a void between the underside of tile and concrete.




## DETAIL 1

NOT TO SCALE

NOTE:
PATTERN, SIZE & ORIENTATION ARE PER MANUFACTURER'S RECOMMENDATION

| Revision | By | Approved | Date |
|---|---|---|---|
| Original | SS | A. Oskoui | 12/03 |
| | | | |
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| | | | |

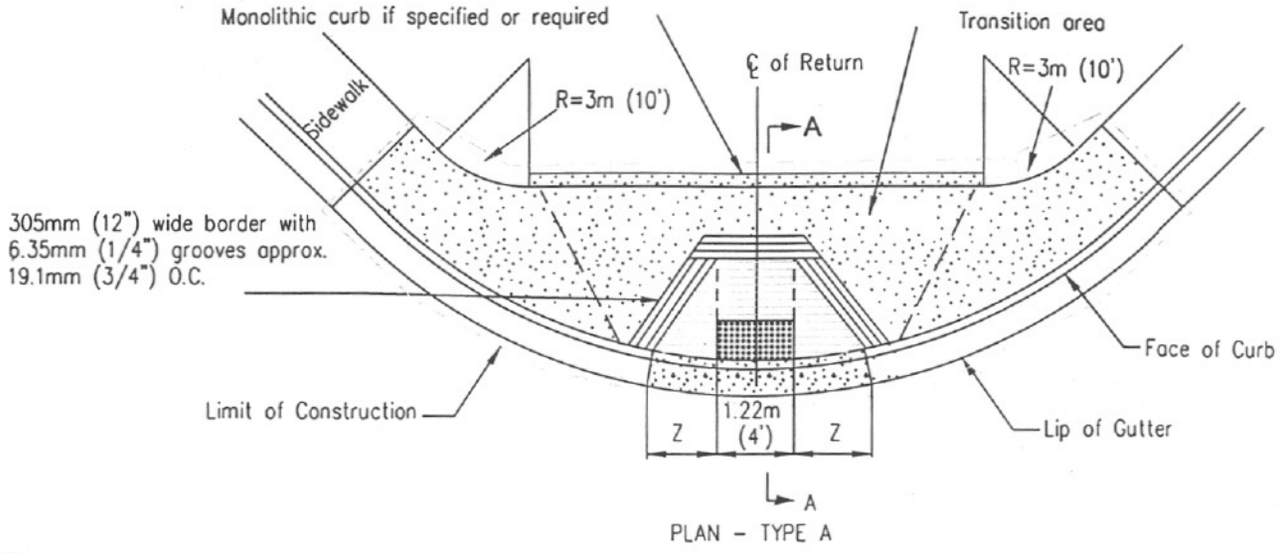
CITY OF SAN DIEGO STANDARD DRAWINGS

# TRUNCATED DOME DETAIL

CITY OF SAN DIEGO
STANDARDS COMMITTEE

6-14-04
Chairperson RCE 64572 Date

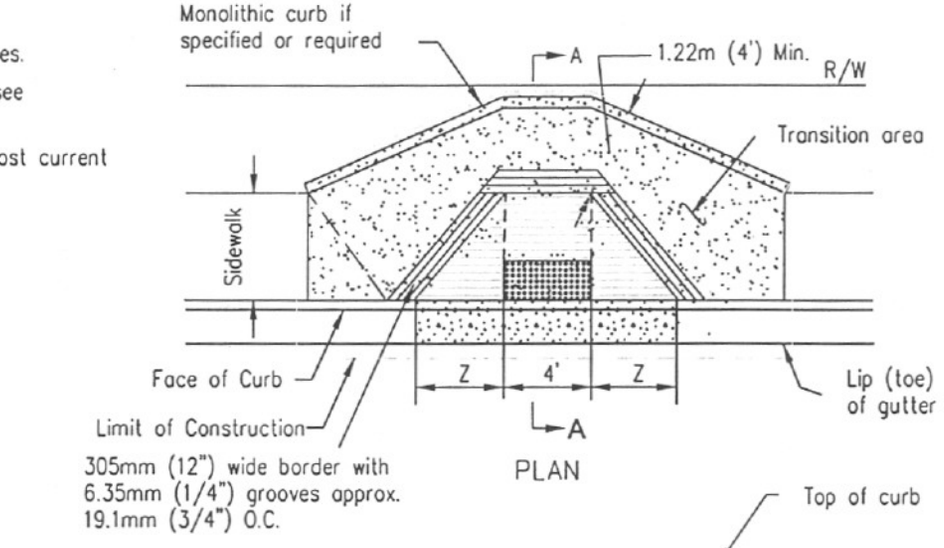
DRAWING NUMBER SDG-130



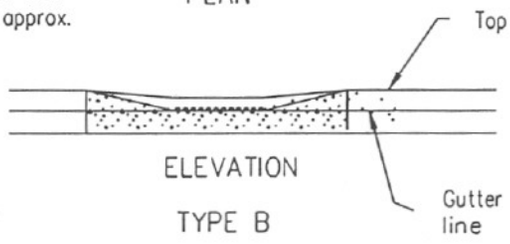

PLAN – TYPE A

NOTE

1. See Drawing SDG-137 for general notes.
2. For truncated domes details, please see Drawing SDG-130.
3. All curb ramp shall be as per the most current adopted City of San Diego Street Design Manual.
4. Landing cross slope shall be 1.5%.
5. Z side slope shall be 10:1.

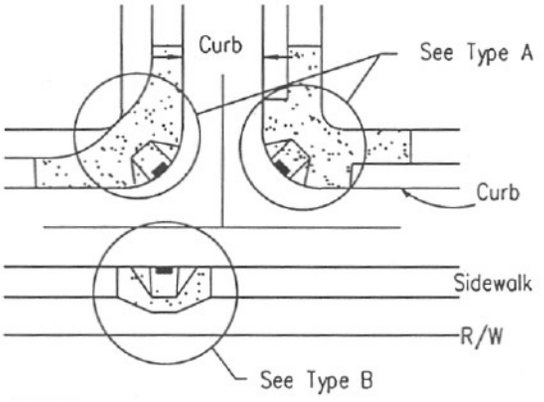



PLAN

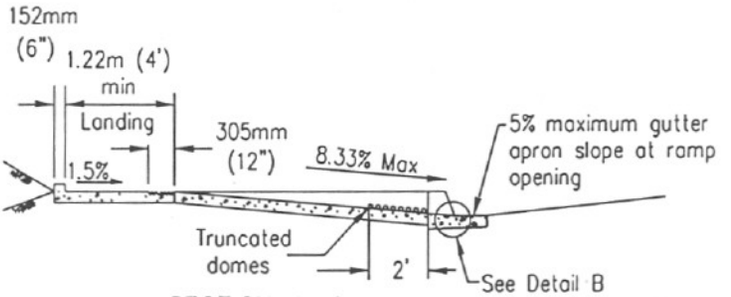



ELEVATION

TYPE B




NOTE
See Standard Drawing SDG-137 for general notes.




SECTION A–A

| Revision | By | Approved | Date |
|---|---|---|---|
| ORIGINAL | SMS | A. Oskoui | 12/03 |
| | | | |
| | | | |
| | | | |
| | | | |

CITY OF SAN DIEGO STANDARD DRAWING

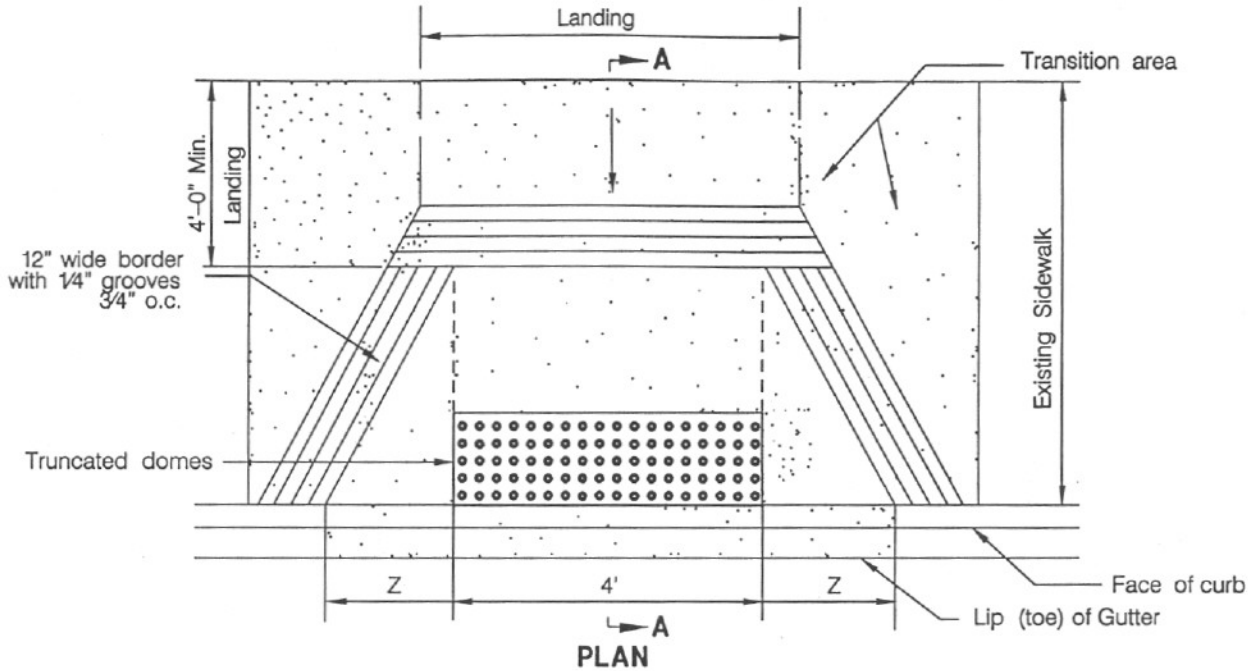
# CURB RAMP – TYPES A and B (New Construction)

CITY OF SAN DIEGO STANDARDS COMMITTEE

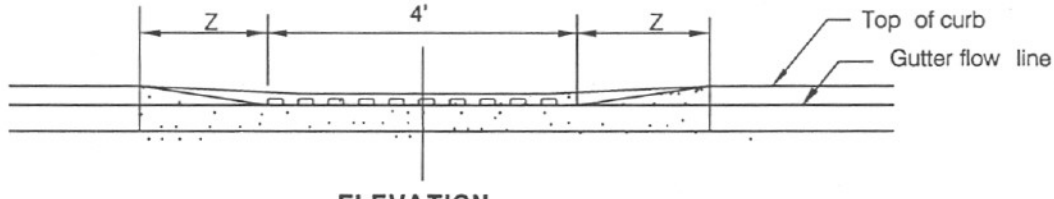
6-14-04

Chairperson R.C.E. 64572 Date

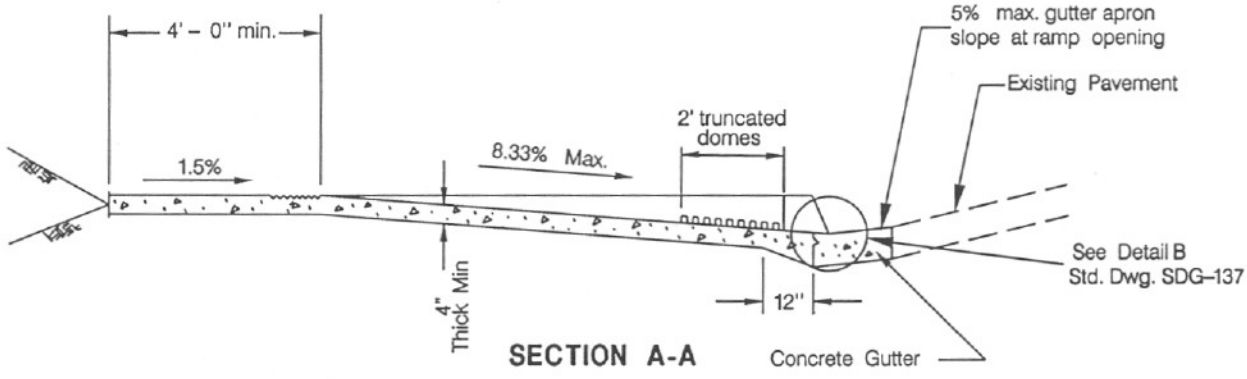
DRAWING NUMBER SDG-132




PLAN




ELEVATION




SECTION A-A

## NOTES

1. See Standard Drawing SDG-137 for general notes.
2. Type A-1 is a designation for ramp at curb return.
3. Type B-1 is a designation for ramp at straight curb (shown above).
4. Landing cross slope shall be 1.5 %.
5. For truncated domes details, please see Standard Drawings SDG-130.
6. Z side slope shall be 10:1.

| Revision | By | Approved | Date |
|---|---|---|---|
| ORIGINAL | SMS | A. Oskoui | 12/09/03 |
| | | | |
| | | | |
| | | | |
| | | | |

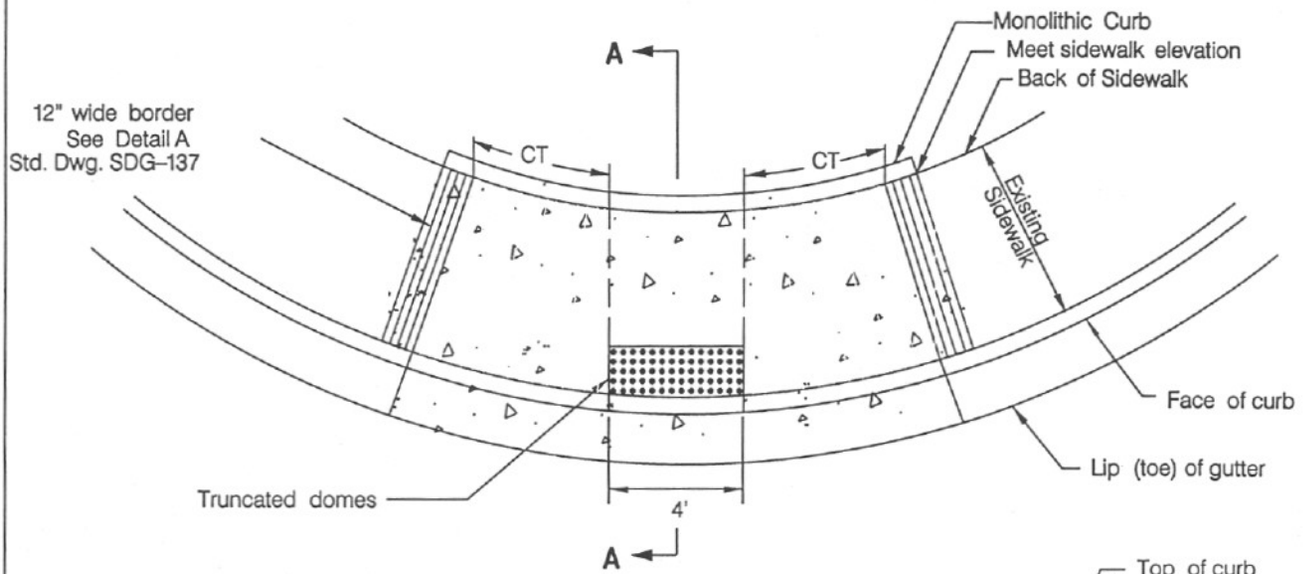
CITY OF SAN DIEGO STANDARD DRAWING

# CURB RAMP - TYPE A-1 & B-1 (For Existing Sidewalk)

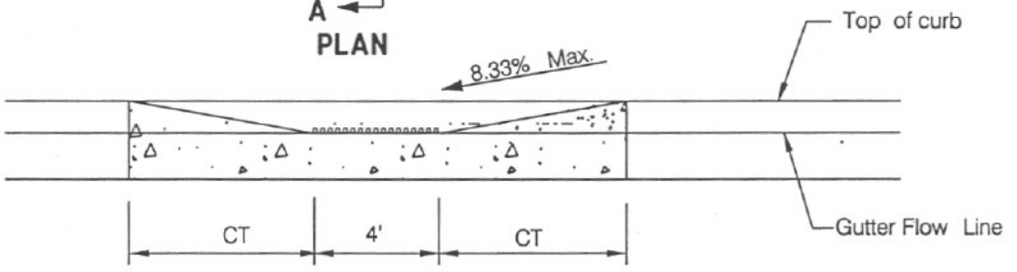
CITY OF SAN DIEGO STANDARDS COMMITTEE

Chairperson RCE 64572 — Date 6-14-04

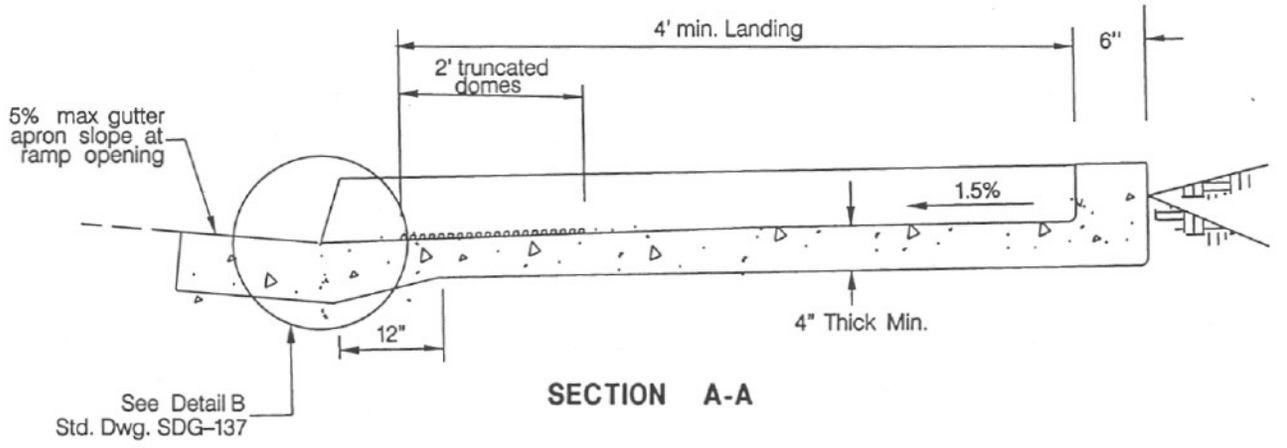
DRAWING NUMBER SDG-133




**PLAN**




**ELEVATION**




**SECTION A-A**

## NOTES

1. Type C ramps are only to be used to mitigate existing conditions where inadequate right of way exists to use Standard Drawing SDG-133, and are not to be used in new construction.
2. See Standard Drawing SDG-137 for general notes.
3. Landing cross slope shall be 1.5%.
4. For truncated domes, please see Standard Drawing SDG-130.
5. CT Curve Transition slope shall be 8.33% maximum.

| Revision | By | Approved | Date |
|---|---|---|---|
| ORIGINAL | SMS | A. Oskoui | 12/03 |
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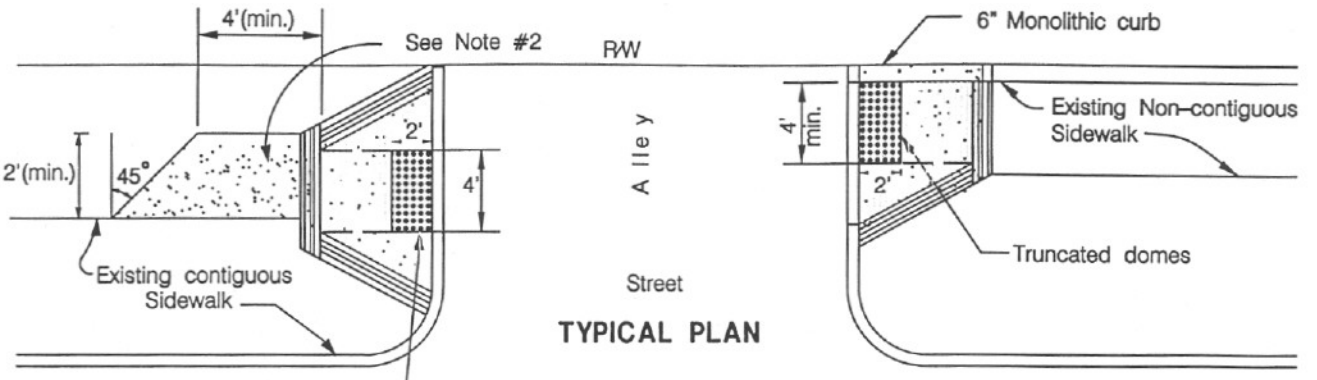
CITY OF SAN DIEGO STANDARD DRAWING

# CURB RAMP - TYPE C
# (For Existing Sidewalk)

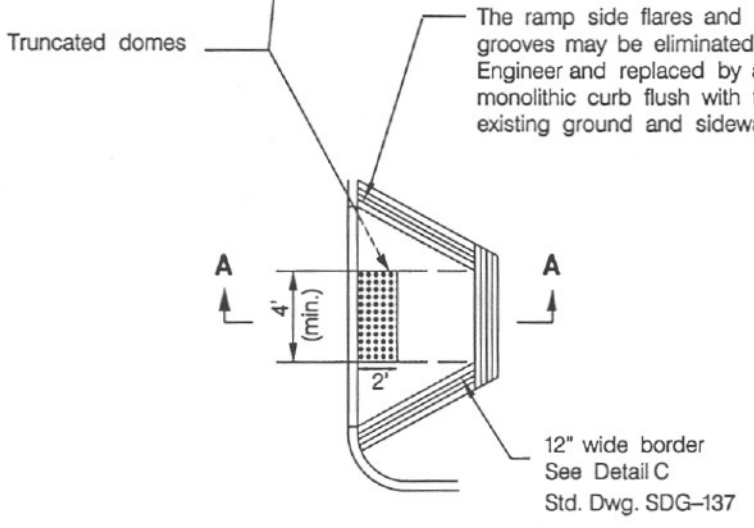
CITY OF SAN DIEGO STANDARDS COMMITTEE

Chairperson R.C.E. 64572 — Date 6-14-04

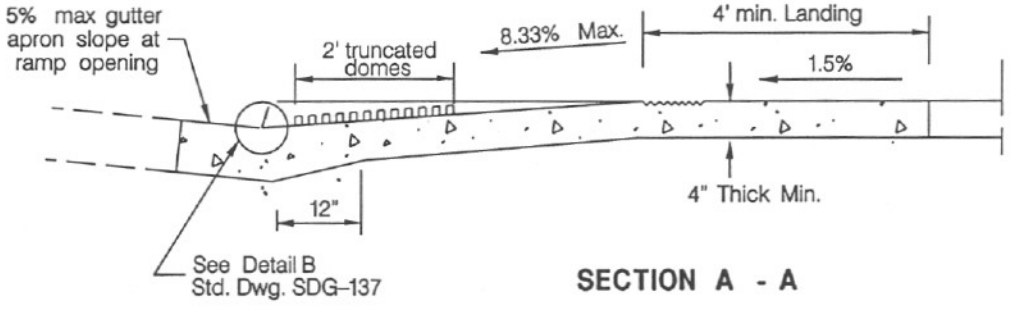
DRAWING NUMBER **SDG-134**




**TYPICAL PLAN**




**PLAN VIEW**




**SECTION A - A**

## NOTES

1. See Standard Drawing SDG-137 for general notes.
2. Landing cross slope shall be 1.5%.
3. For truncated domes details, see Standard Drawing SDG-130.

| Revision | By | Approved | Date |
|---|---|---|---|
| ORIGINAL | SMS | A. Oskoui | 120903 |
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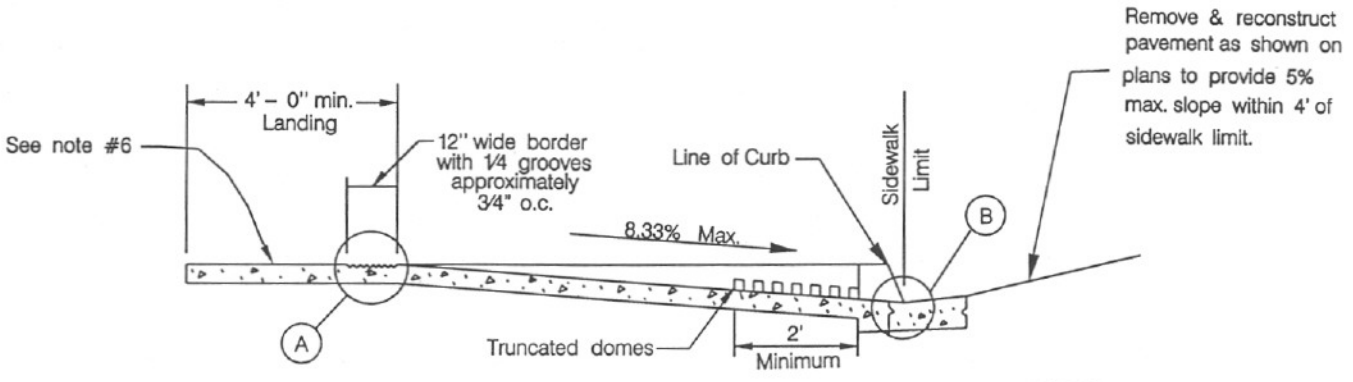
CITY OF SAN DIEGO STANDARD DRAWING

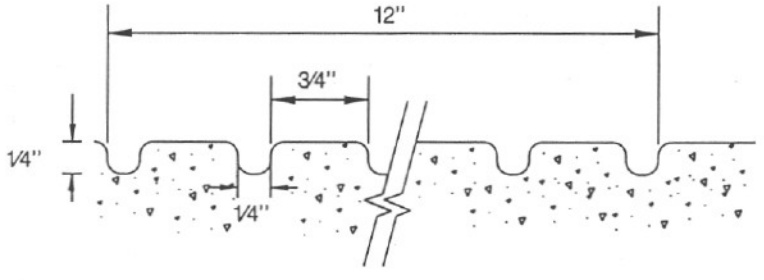
# CURB RAMP - TYPE D

CITY OF SAN DIEGO STANDARDS COMMITTEE

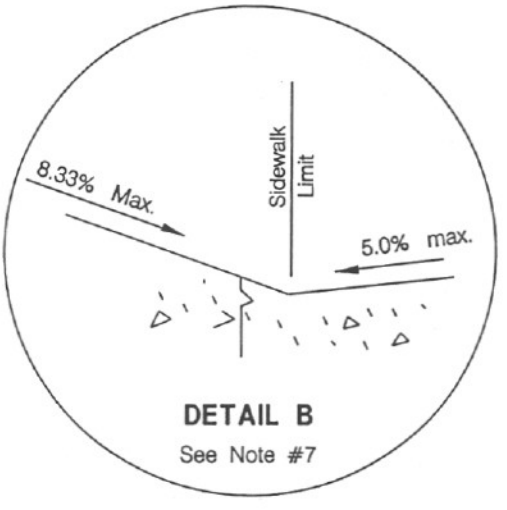
Chairperson R.C.E. 64572 — Date 6-14-04

DRAWING NUMBER **SDG-136**




**DETAIL A**
12" wide border




**DETAIL B**
See Note #7

## NOTES

1. The removal of existing concrete curb, gutter, sidewalk and pavement for pedestrian ramp installation shall comply with Standard Drawing G–11. For construction of Curb Ramps on existing sidewalks, removal of additional sidewalk maybe required to comply with ADA requirements to meet the existing grade.
2. Areas shown thus: [ ] shall have a medium to heavy broom texture finish, perpendicular to the axis of the ramp.
3. Areas shown thus: [ ] are the minimum required for a complete ramp installation and shall be concrete class 520–C–2500.
4. If obstructions such as inlets, utility poles, fire hydrants, etc., are encountered, the ramp locations may be adjusted upon the approval of the Resident Engineer, or Local Agency Inspector.
5. The ramp slopes will be measured relative to the sidewalk slope, see Detail B above. Adjoining slope beyond ramp shall not exceed 20:1 (5%).
6. Landing cross slope shall be 1.5%.
7. All projects (new construction & alteration), the lower end of 48–inch width of the ramp shall be flush and free of abrupt changes between the bottom of the ramp and the street pavement surface.
8. There shall be no more than 8" (eight inches) separation between the face of the curb and any given point of the nearest edge of the truncated domes.

| Revision | By | Approved | Date |
|---|---|---|---|
| ORIGINAL | SMS | A. Oskoui | 12/03 |
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**CITY OF SAN DIEGO STANDARD DRAWING**

# GENERAL NOTES for CURB RAMPS

CITY OF SAN DIEGO
STANDARDS COMMITTEE

Chairperson RCE 64572 — Date 6-14-04

DRAWING NUMBER **SDG-137**