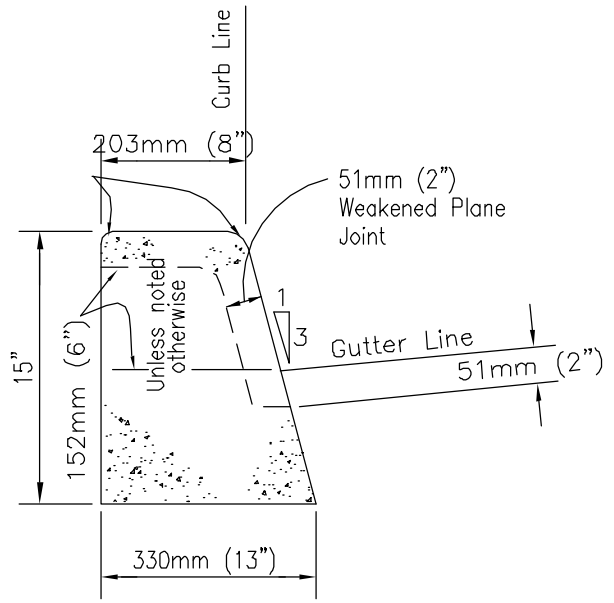
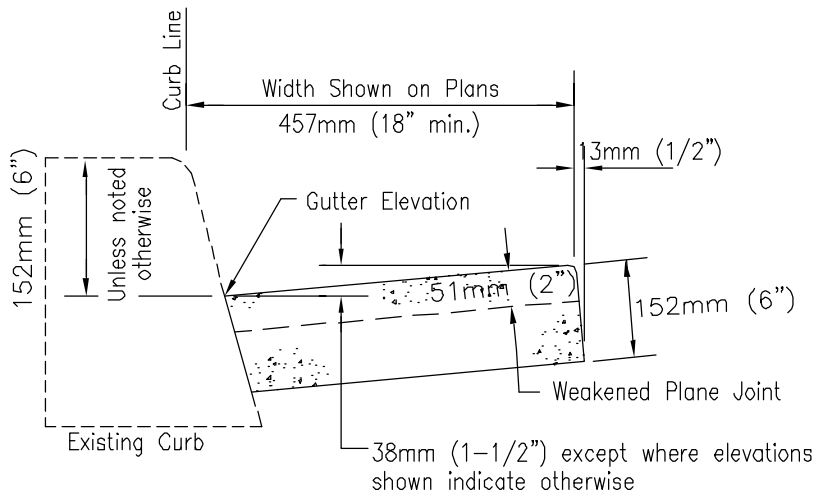


152mm (6") CURB
Area=0.083m (0.89 Sq. Ft.)



203mm (8") CURB
Area=0.1m (1.09 Sq. Ft.)



GUTTER

NOTES

1. Concrete shall be 308kg/M²-C-17-Mpa (520-C-2500).
2. See Standard Drawing G-10 for joint details.
3. Slope top of curb 6.35mm (1/4") per foot toward street.

LEGEND ON PLANS

152mm (6") curb

Revision	By	Approved	Date
ORIGINAL		Kercheval	12/75
Add Metric		T. Stanton	03/03

SAN DIEGO REGIONAL STANDARD DRAWING

CURBS AND GUTTER - SEPARATE

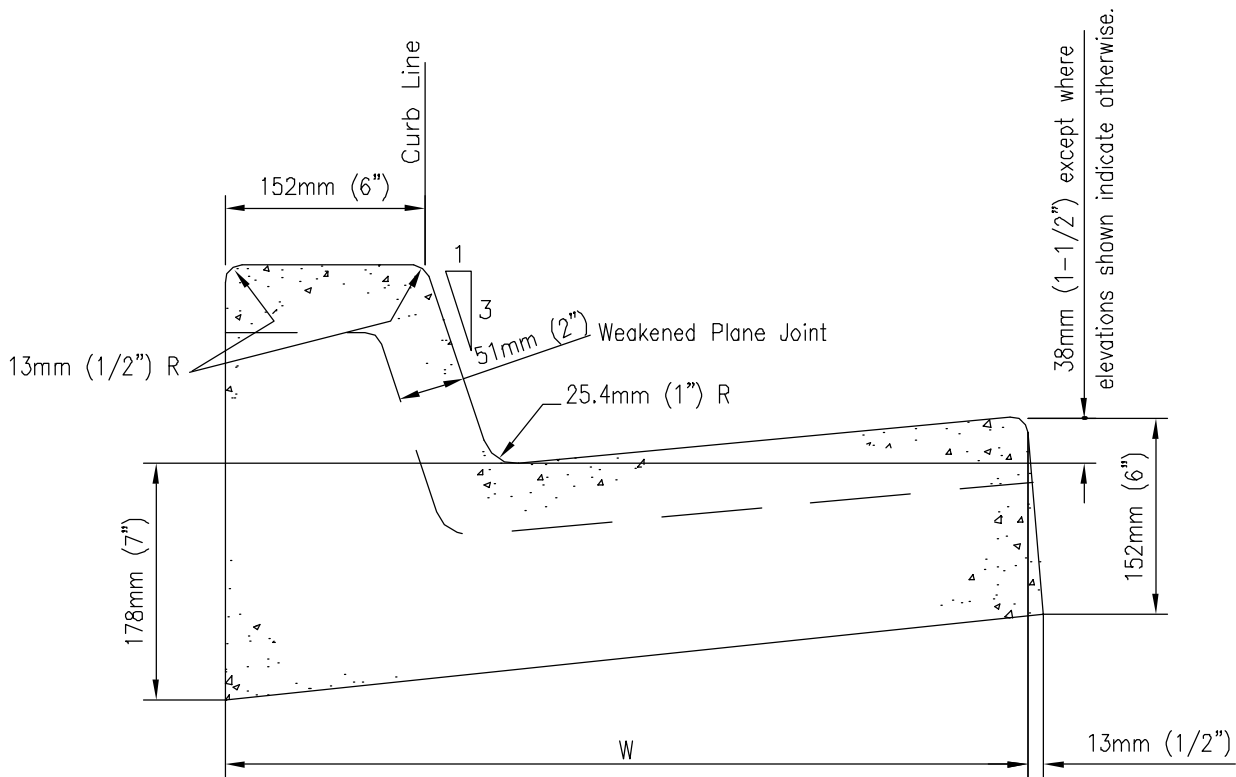
RECOMMENDED BY THE SAN DIEGO REGIONAL STANDARDS COMMITTEE

T. Stanton 3/01/003

Chairperson R.C.E. 19246 Date

DRAWING NUMBER

G-1



TYPE	W	*AREA
G	610mm (24")	.124sq. m (1.34sq ft.)
H	762mm (30")	.150sq. m (1.61sq ft.)

* with 152mm (6") Curb Face

NOTES

1. Concrete shall be 308kg/M3-C-17-Mpa (520-C-2500).
2. See Standard Drawing G-10 for joint details.
3. Slope top of curb 6.35mm (1/4") per foot toward street.

LEGEND ON PLANS

Revision	By	Approved	Date
ORIGINAL		Kercheval	12/75
Add Metric		T. Stanton	03/03

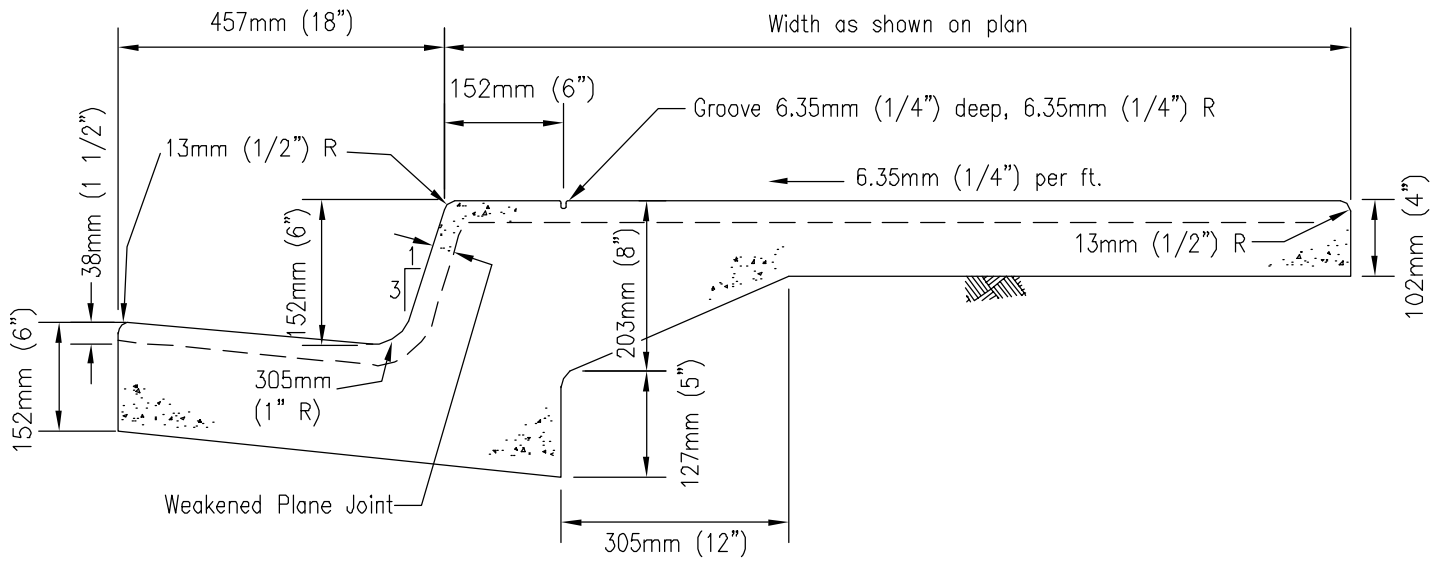
SAN DIEGO REGIONAL STANDARD DRAWING

CURB AND GUTTER - COMBINED

RECOMMENDED BY THE SAN DIEGO REGIONAL STANDARDS COMMITTEE

T. Stanton 3/03/03
Chairperson R.C.E. 19246 Date

DRAWING NUMBER **G-2**



NOTES

1. Concrete shall be 308kg/M3-C-17-Mpa (520-C-2500).
2. See Standard Drawing G-10 for joint details.
3. Monolithic curb, gutter and sidewalk is to be used with Agency approval only.

LEGEND ON PLANS



Revision	By	Approved	Date
ORIGINAL		Kercheval	12/75
Add Metric		T. Stanton	03/03

SAN DIEGO REGIONAL STANDARD DRAWING

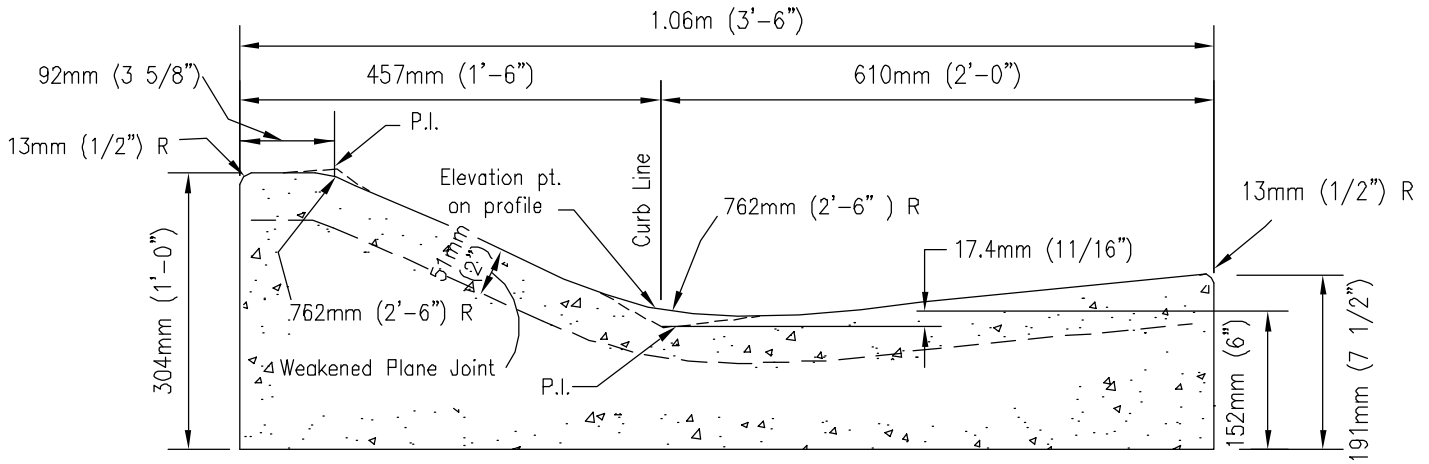
**MONOLITHIC CURB,
GUTTER AND SIDEWALK**

RECOMMENDED BY THE SAN DIEGO REGIONAL STANDARDS COMMITTEE

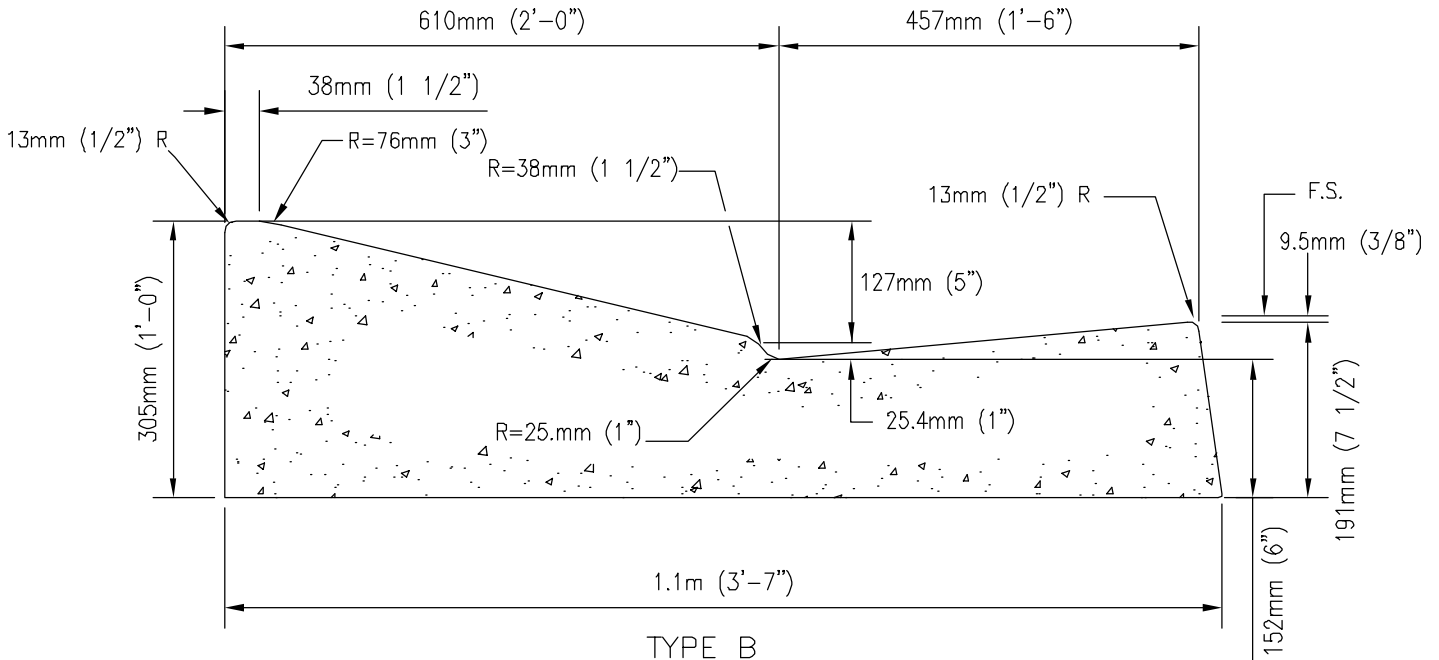
T. Stanton 3/03/03

Chairperson R.C.E. 19246 Date

DRAWING NUMBER **G-3**



TYPE A
CURB AREA
(.21m (2.23 sq. ft.))



TYPE B
CURB AREA
(.230sq. m (2.48 sq. ft.))

NOTES

1. Transition to type G curb at all curb returns, except where sidewalk ramps are provided, and at all cul-de-sacs with drainage structures.
2. Concrete shall be 308kg/M² -C-17-Mpa (520-C-2500).
3. See Standard Drawing G-10 for joint details.

LEGEND ON PLANS

Revision	By	Approved	Date
ORIGINAL		Kercheval	12/75
Add Metric		T. Stanton	03/03

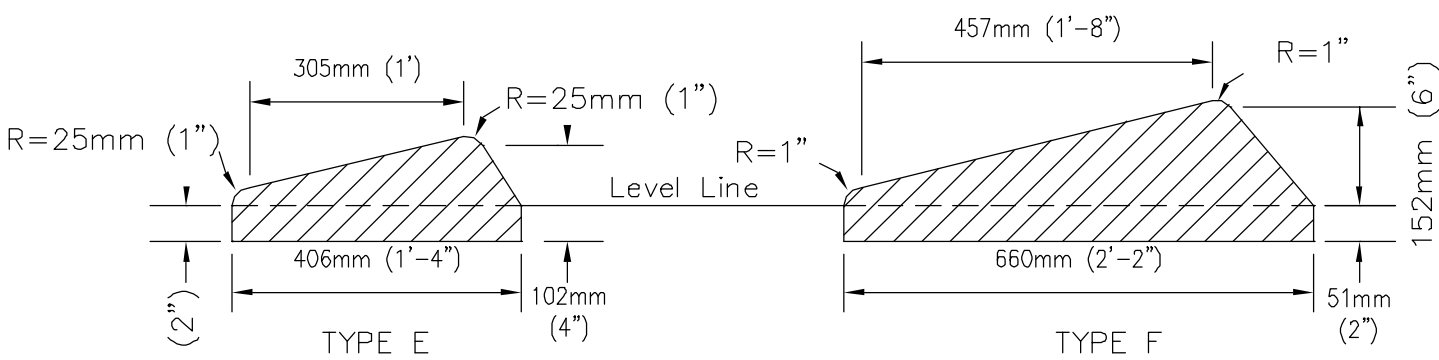
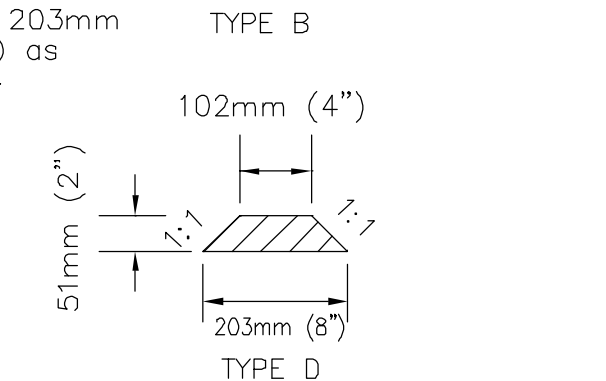
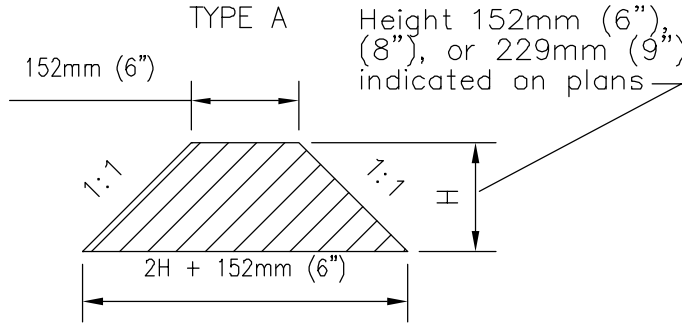
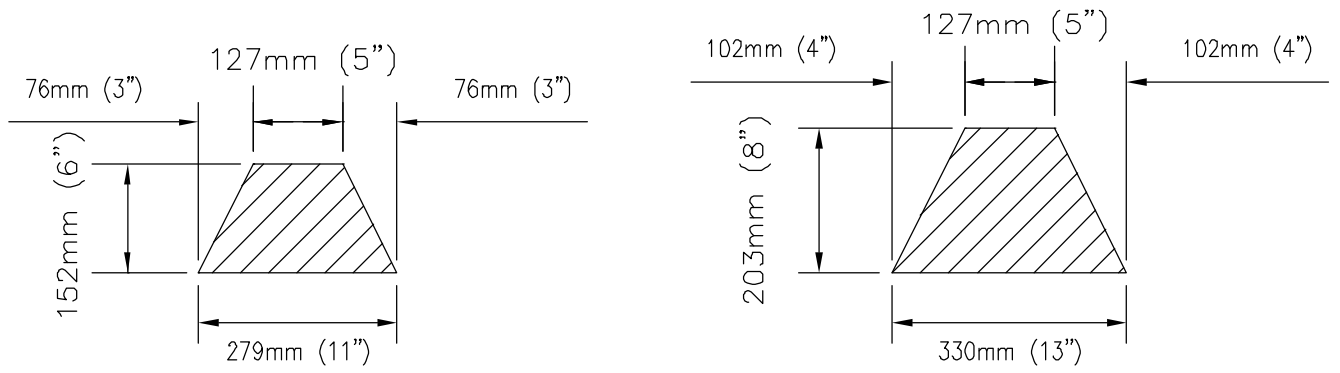
SAN DIEGO REGIONAL STANDARD DRAWING

CURB AND GUTTER - ROLLED

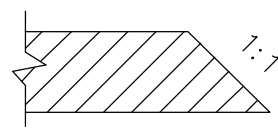
RECOMMENDED BY THE SAN DIEGO REGIONAL STANDARDS COMMITTEE

T. Stanton 3/01/003
Chairperson R.C.E. 19246 Date

DRAWING NUMBER **G-4**



MOUNTABLE DIKES



ALL TYPES - SIDE VIEW

Slope end of dike 1:1 when not joining other improvements

APPROX. DIKE QUANTITIES	
TYPE	REQD PER LIN. FT.
A	25.4kg (0.0250 tn.)
B	38.1kg (0.0375 tn.)
C-152mm (6")	38.1kg (0.0375 tn.)
C-203mm (8")	59.2kg (0.0583 tn.)
C-229mm (9")	71.3kg (0.0702 tn.)
D	6.3kg (0.0062 tn.)
E	41.4kg (0.0407 tn.)
F	63.3kg (0.0623 tn.)

NOTES

1. Dike is to be placed on a 51mm (2") of A.C. surfacing, extending throughout the width of the dike.
2. AR-8000 grade asphalt to be used for all dikes.
3. A.C. dikes may be shaped and compacted with an extrusion machine or other equipment capable of shaping and compacting the material to the required cross section.

Revision	By	Approved	Date
ORIGINAL		Kercheval	12/75
Add Metric		T. Stanton	03/03

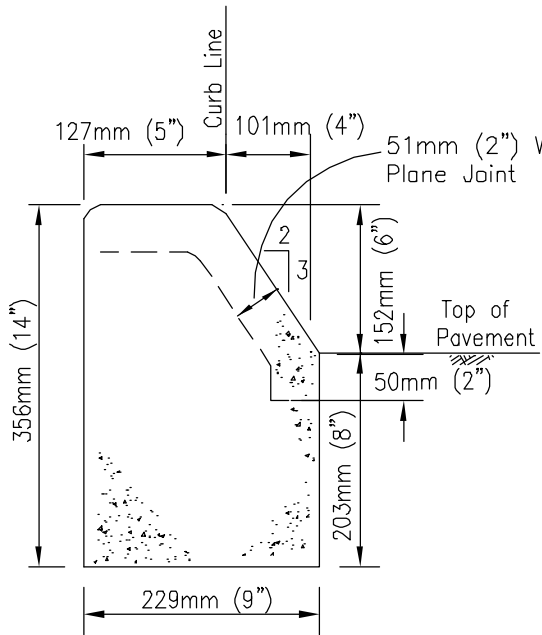
SAN DIEGO REGIONAL STANDARD DRAWING

DIKES - ASPHALT CONCRETE

RECOMMENDED BY THE SAN DIEGO REGIONAL STANDARDS COMMITTEE

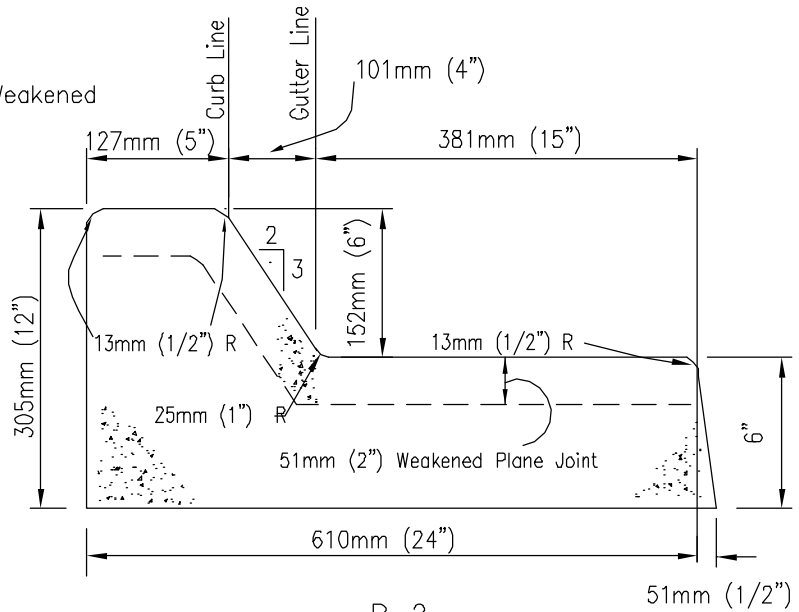
T. Stanton 3/03/03
Chairperson R.C.E. 19246 Date

DRAWING NUMBER **G-5**



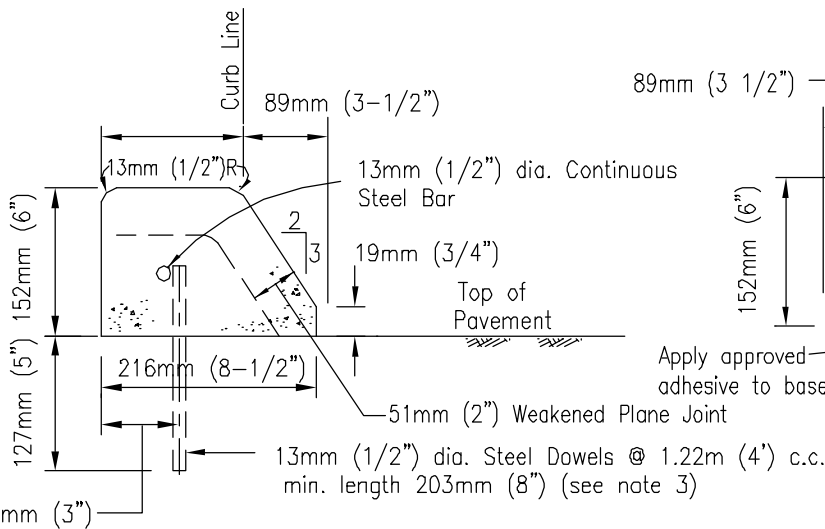
B-1

Area= .073 sq. m (0.79 Sq.Ft.)



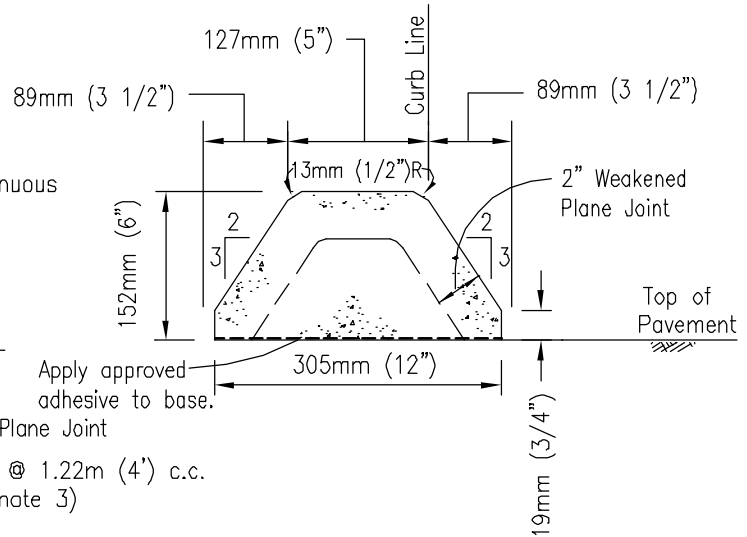
B-2

Area= .120 Sq.m (1.29 Sq.Ft.)



B-3

Area= .027 sq. m (0.29 Sq.Ft.)



B-4

Area= .033 sq. m (0.35 Sq.Ft.)

NOTES

1. Concrete shall be 308kg/M3-C-17-Mpa (520-C-2500.)
2. See Standard Drawing G-10 for joint details.
3. Extruded type B-3 curb shall be anchored to existing pavement by placing steel dowels and reinforcing steel as shown or by using an approved adhesive.

LEGEND ON PLANS

Type B-2 Curb and Gutter

Type B-1, B-3, B-4 Curb

Revision	By	Approved	Date
ORIGINAL		Kercheval	12/75
Add Metric		T. Stanton	03/03

SAN DIEGO REGIONAL STANDARD DRAWING

CURBS AND GUTTER - MEDIANS

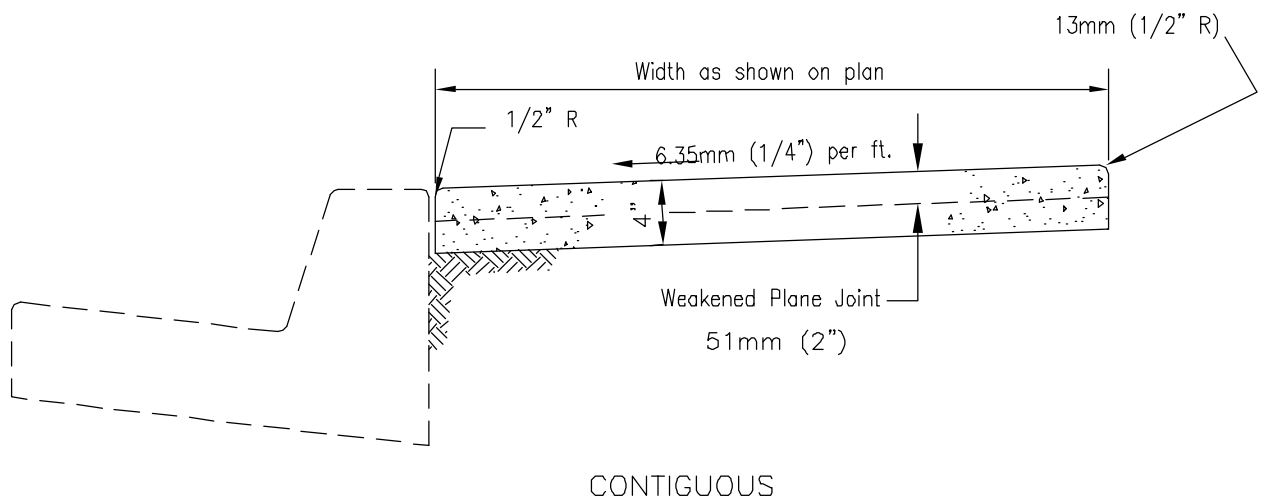
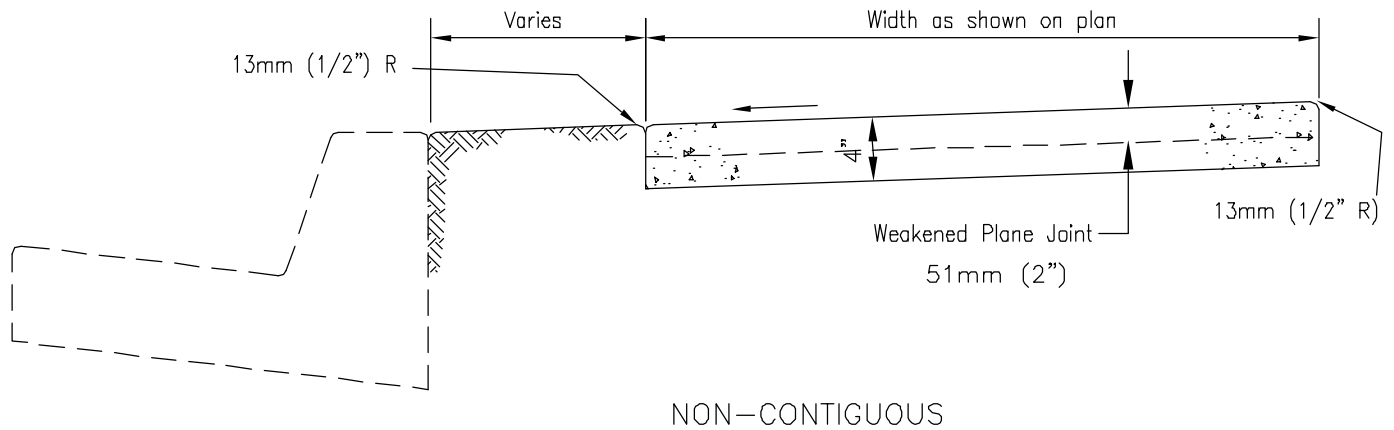
RECOMMENDED BY THE SAN DIEGO REGIONAL STANDARDS COMMITTEE

T. Stanton 3/01/003

Chairperson R.C.E. 19246 Date

DRAWING NUMBER

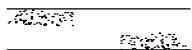
G-6



NOTES

1. Concrete shall be 308 kg/M3 C 17 Mpa (520-C-2500).
2. See Standard Drawing G-9 and G-10 for joint details.

LEGEND ON PLANS



Revision	By	Approved	Date
ORIGINAL		Kercheval	12/75
Add Metric		T. Stanton	03/03

SAN DIEGO REGIONAL STANDARD DRAWING

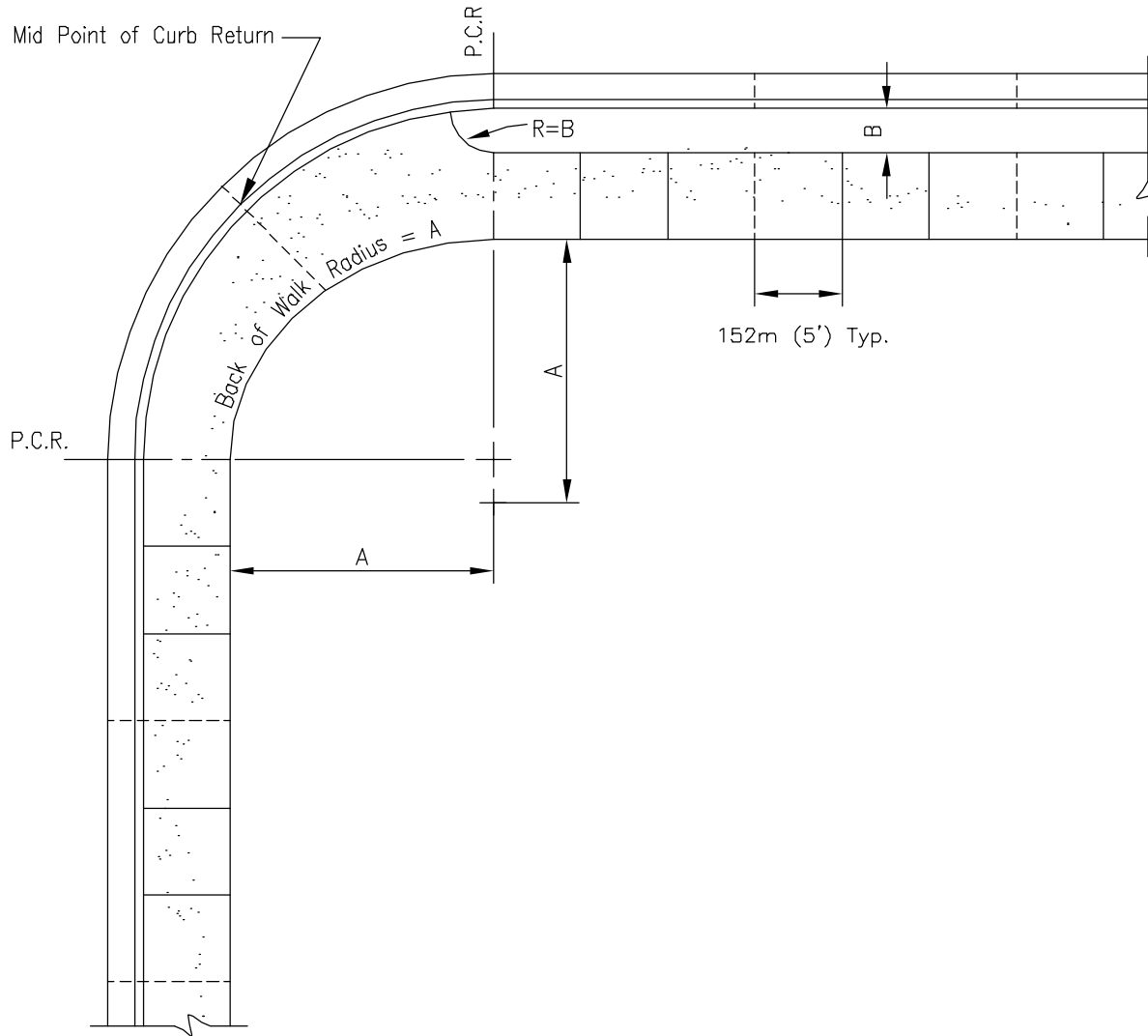
SIDEWALK - TYPICAL SECTIONS

RECOMMENDED BY THE SAN DIEGO REGIONAL STANDARDS COMMITTEE

T. Stanton 3/01/2003

Chairperson R.C.E. 19246 Date

DRAWING NUMBER **G-7**



NOTES

1. Expansion joints — — — at curb returns, adjacent to structures and at 13.7m (45') intervals.
(See Standard Drawing G-10).
2. Weakened Plane Joints — — — — — at mid point of curb return, when required, and at 4.57m (15') intervals from P.C.R.'s
(See Standard Drawing G-10).
3. 6.35mm (1/4") grooves — — — — — with 6.35 (1/4") radius edges at 152m (5') intervals.

Revision	By	Approved	Date
ORIGINAL		Kercheval	12/75
Add Metric		T. Stanton	03/03

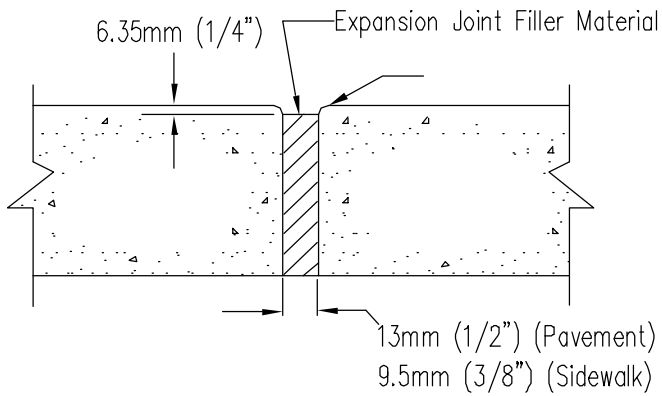
SAN DIEGO REGIONAL STANDARD DRAWING

SIDEWALK JOINT LOCATIONS

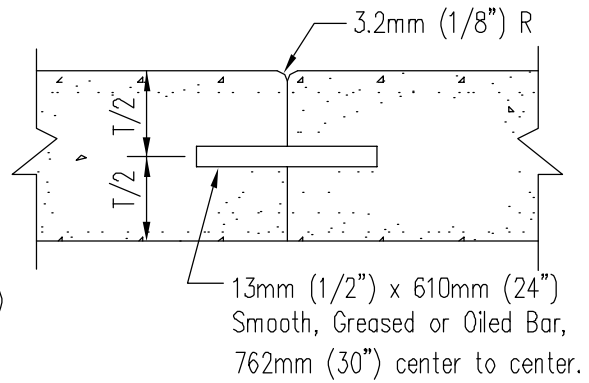
RECOMMENDED BY THE SAN DIEGO REGIONAL STANDARDS COMMITTEE

T. Stanton 01/01/2003
Chairperson R.C.E. 19246 Date

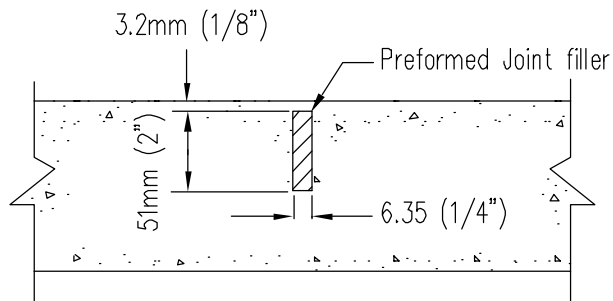
DRAWING NUMBER **G-9**



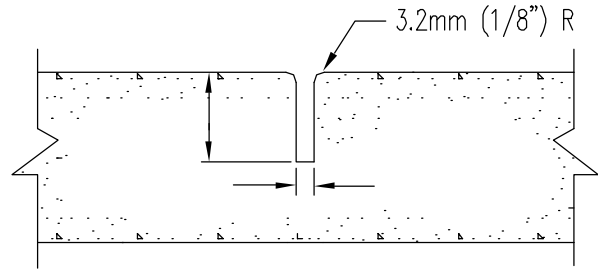
EXPANSION JOINT



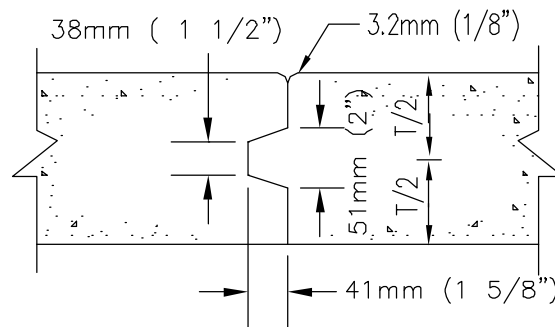
CONTACT JOINT



WEAKENED PLANE JOINT
GUTTER AND PAVEMENT



WEAKENED PLANE JOINT
CURB AND SIDEWALK



KEYED JOINT

Revision	By	Approved	Date
ORIGINAL		Parkinson	2/95
Add Metric		T. Stanton	03/03

SAN DIEGO REGIONAL STANDARD DRAWING

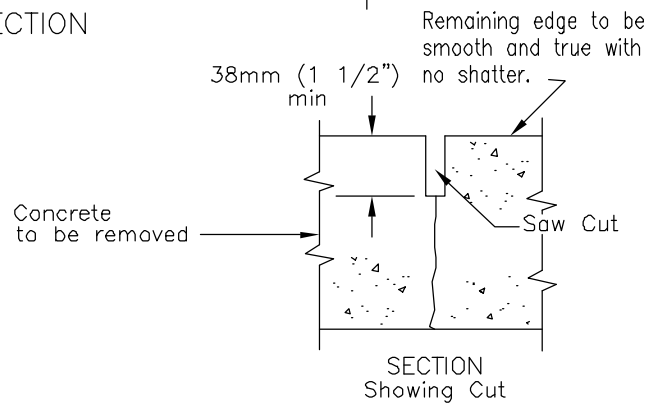
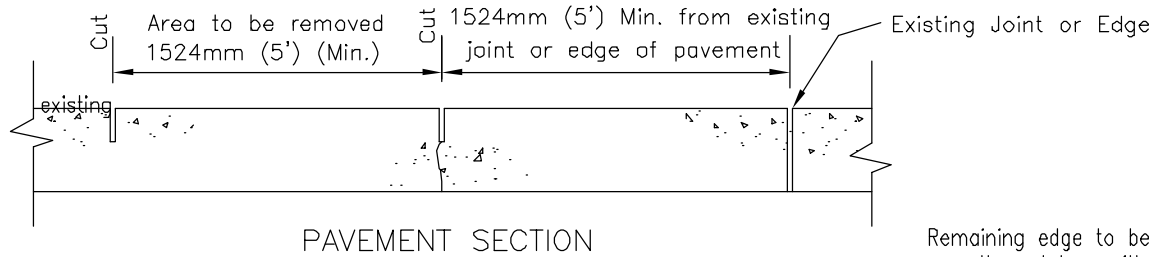
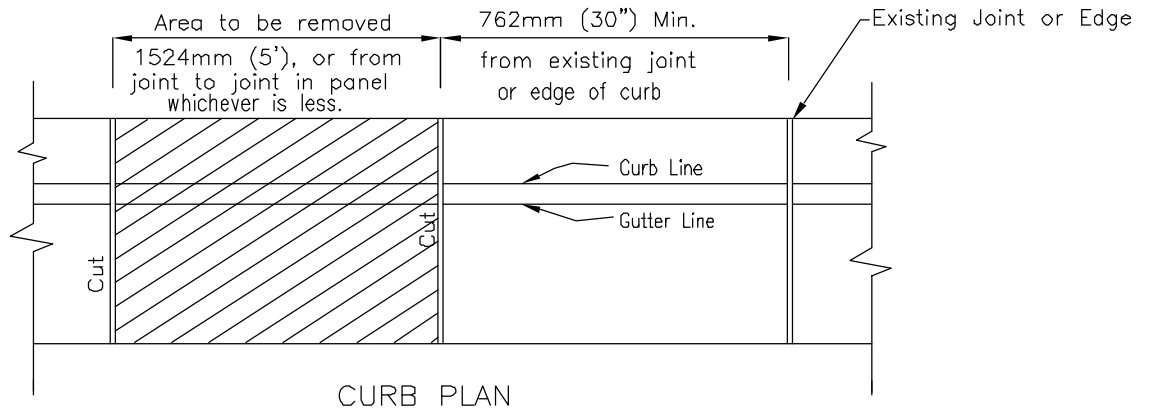
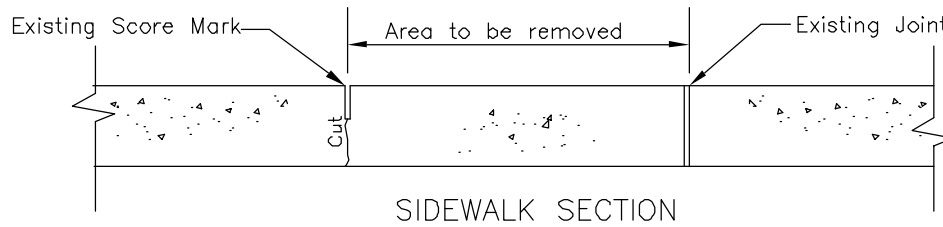
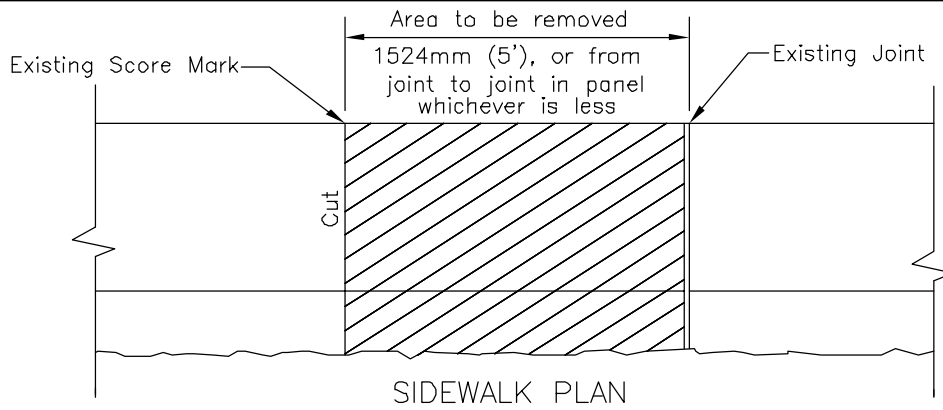
CONCRETE JOINT DETAILS

RECOMMENDED BY THE SAN DIEGO REGIONAL STANDARDS COMMITTEE

T. Stanton 51018005

Chairperson R.C.E. 19246 Date

DRAWING NUMBER **G-10**



NOTE

When distance from, "Area to be removed", to existing joint, edge or score mark is less than minimum shown, "Area to be removed" shall be extended to joint, edge or score mark.

Revision	By	Approved	Date
ORIGINAL		Kercheval	12/75
Add Metric		T. Stanton	03/03

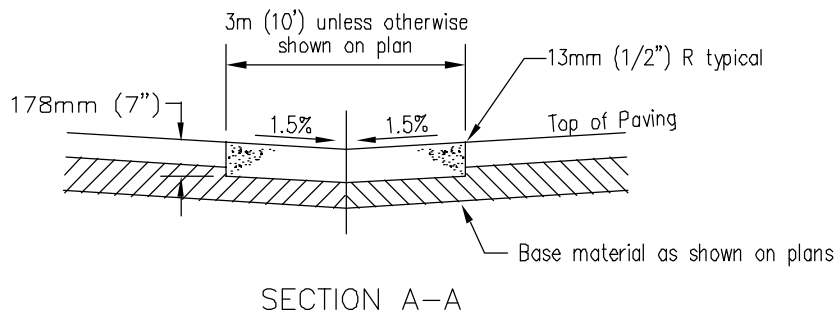
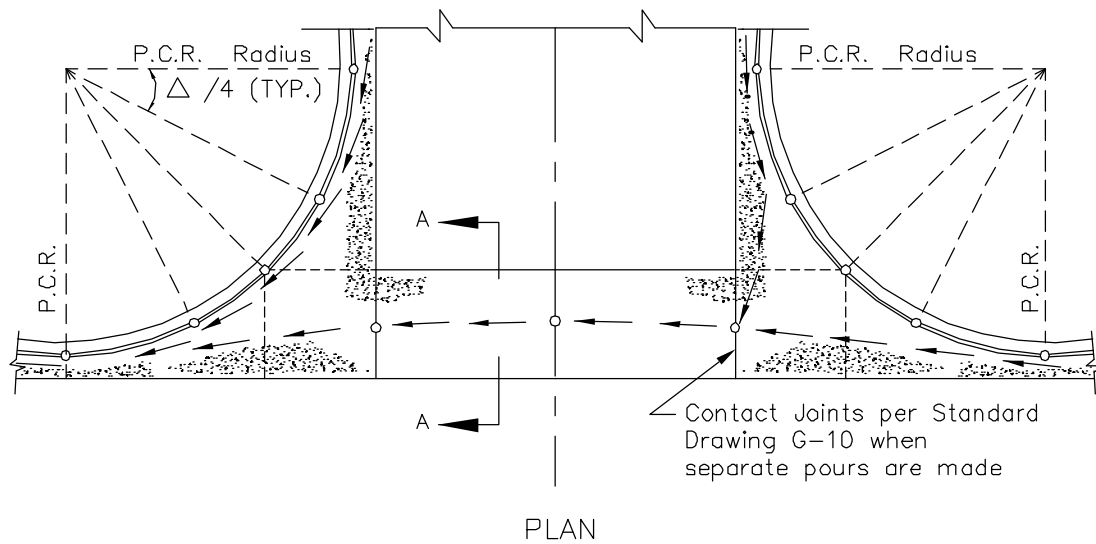
SAN DIEGO REGIONAL STANDARD DRAWING

**CONCRETE CURB, GUTTER,
SIDEWALK AND PAVEMENT
REMOVAL AND REPLACEMENT**

RECOMMENDED BY THE SAN DIEGO REGIONAL STANDARDS COMMITTEE

T. Stanton 3/03/03
Chairperson R.C.E. 19246 Date

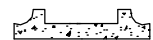
DRAWING NUMBER **G-11**



NOTES

1. Concrete shall be 332 kg/M³ C 22 Mpa (560 C 3250).
2. ----- = Weakened plane joints.
3. ← ← ← = Typical flowlines.
4. ∅ = Elevations to be shown on plans.
5. Return segments to be 178mm (7") Thick.
6. Curb between P.C.R.s. shall be considered as part of cross gutter.
7. In all cases subgrade shall be compacted to 95% min relative compaction to depth of 305mm (12").

LEGEND ON PLANS



Revision	By	Approved	Date
ORIGINAL		Kercheval	12/75
Add Metric		T. Stanton	03/03

SAN DIEGO REGIONAL STANDARD DRAWING

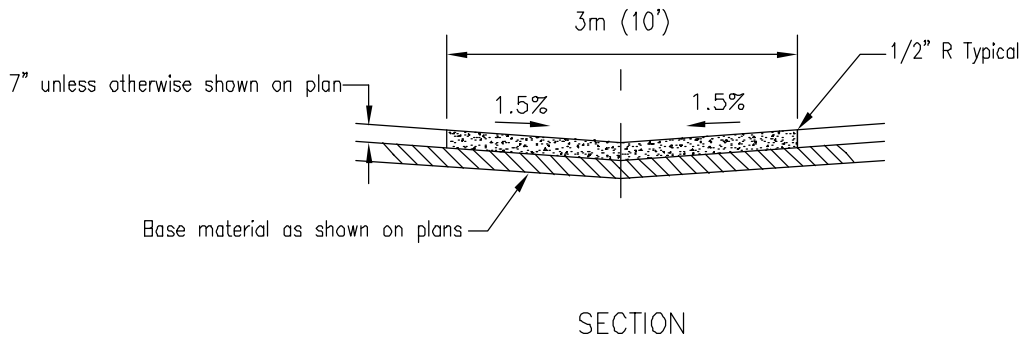
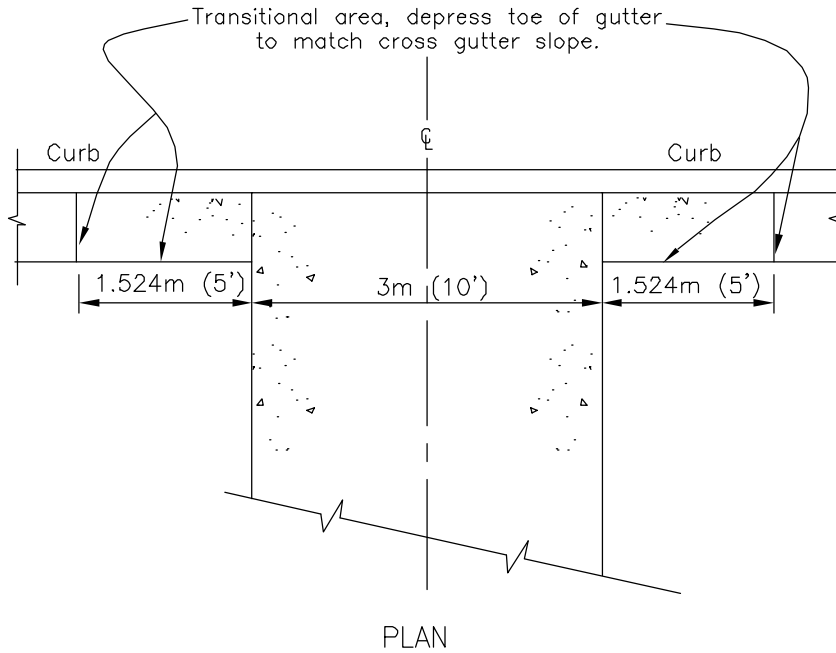
CROSS GUTTER

RECOMMENDED BY THE SAN DIEGO REGIONAL STANDARDS COMMITTEE

T. Stanton 31018005

Chairperson R.C.E. 19246 Date

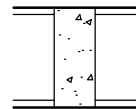
DRAWING NUMBER **G-12**



NOTES

1. Cross gutter to be constructed where the drainage is carried across street.
2. Minimum allowable cross slope is 0.5%.
3. Concrete shall be 332 kg/M³ C 22 Mpa (560-C-3250).
4. In all cases subgrade shall be compacted to 95% minimum relative compaction to depth of 305mm (12").

LEGEND ON PLANS



Revision	By	Approved	Date
ORIGINAL		Kercheval	12/75
Add Metric		T. Stanton	03/03

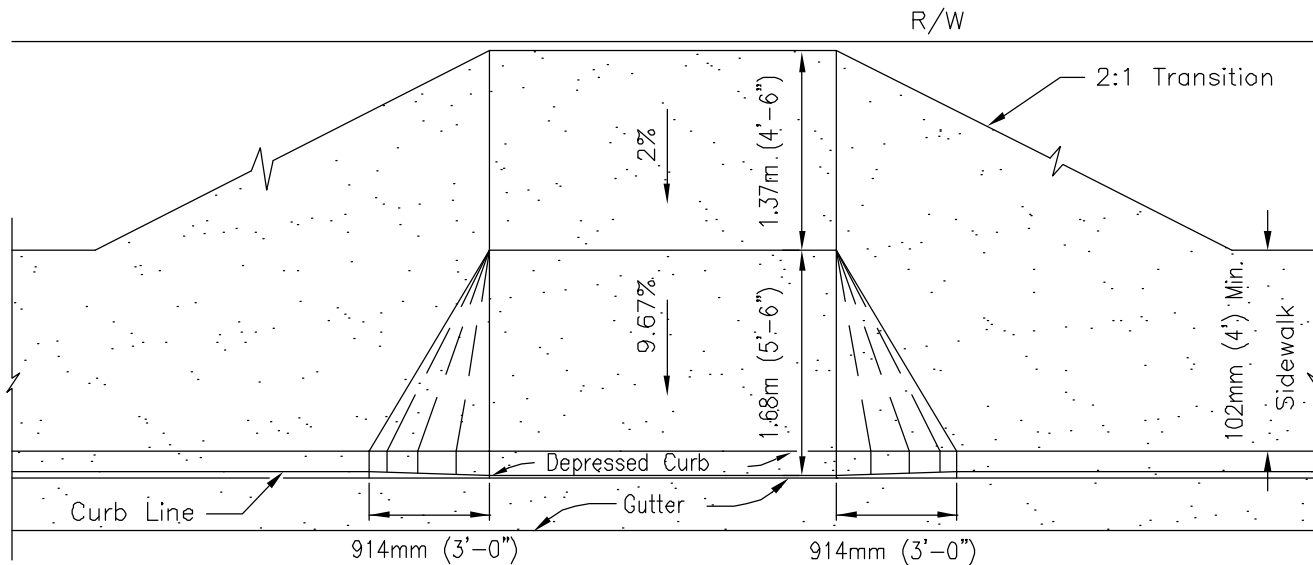
SAN DIEGO REGIONAL STANDARD DRAWING

MID-BLOCK CROSS GUTTER

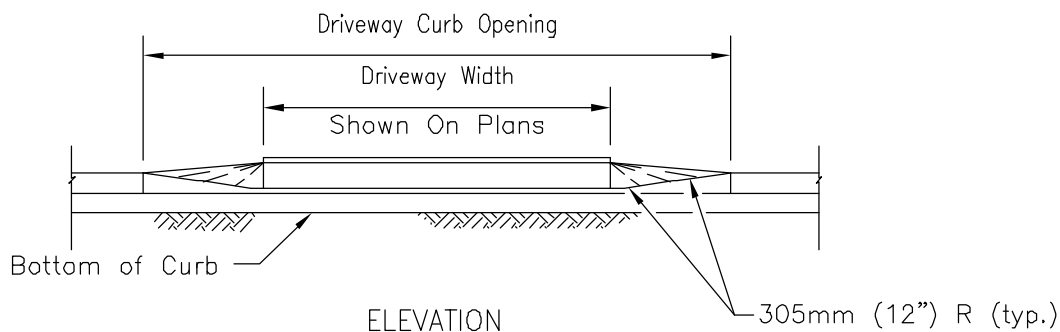
RECOMMENDED BY THE SAN DIEGO REGIONAL STANDARDS COMMITTEE

T. Stanton 3/03/03
 Chairperson R.C.E. 19246 Date

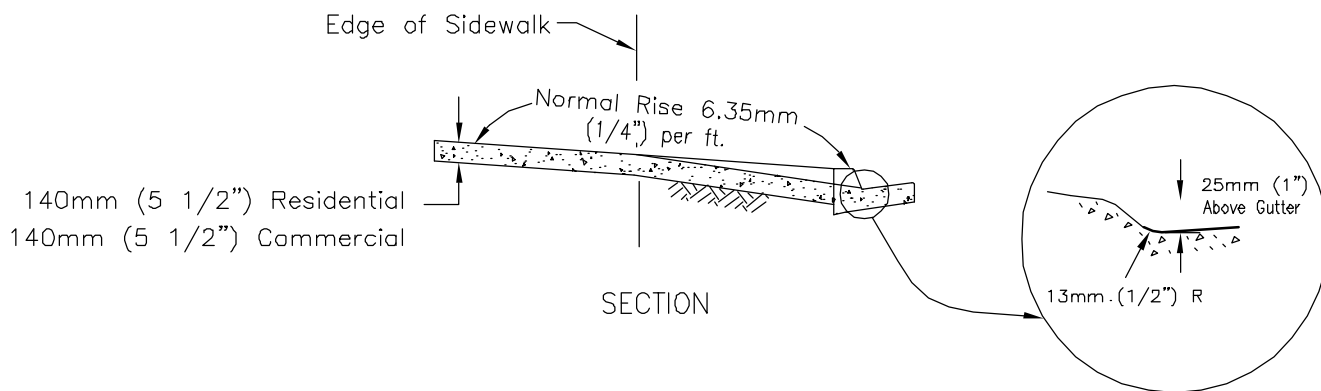
DRAWING NUMBER **G-13**



PLAN



ELEVATION



SECTION

NOTES

1. No concrete shall be placed until forms and subgrade are inspected by the Agency.
2. Concrete shall be 332 kg/M3 C 22 Mpa (520-C-2500).
3. See Standard Drawings G-15 and G-16 for width and location requirements
4. Driveway ramp to extend to 3m (10') from curb face or to property line whichever is less. (For commercial driveways only)
5. See Standard Drawings G-2 and G-10 for curb and joint details.

Revision	By	Approved	Date
ORIGINAL	R. Munoz		4/97
Add Metric	T. Stanton		03/03

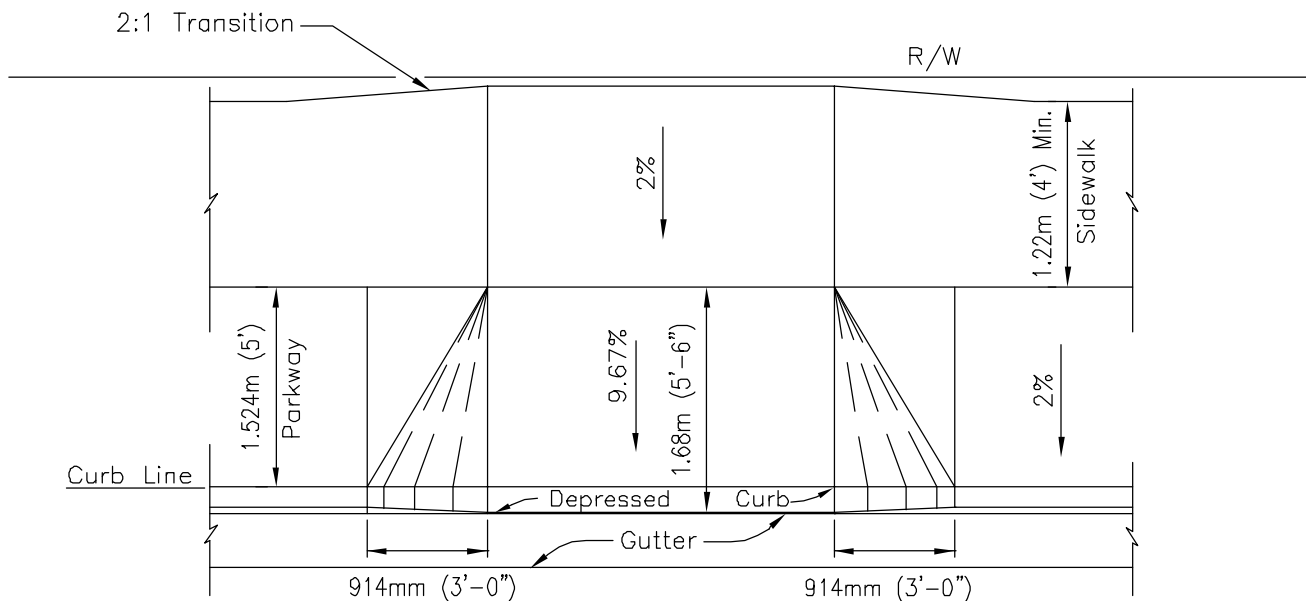
SAN DIEGO REGIONAL STANDARD DRAWING

**CONCRETE DRIVEWAY
(Contiguous Sidewalk)**

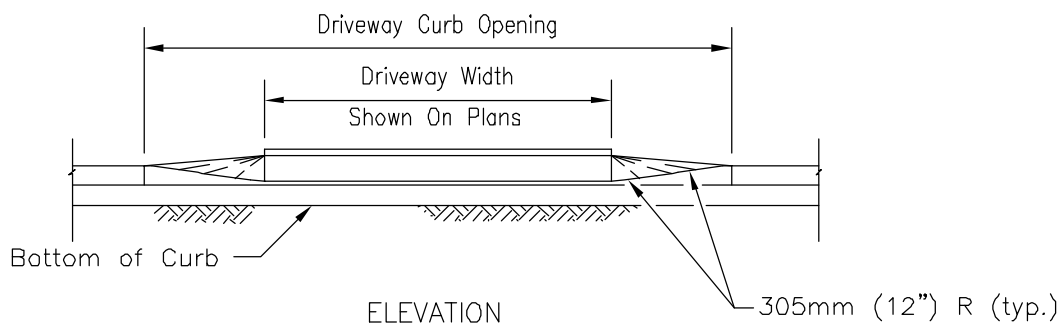
RECOMMENDED BY THE SAN DIEGO REGIONAL STANDARDS COMMITTEE

T. Stanton 31018003
Chairperson R.C.E. 19246 Date

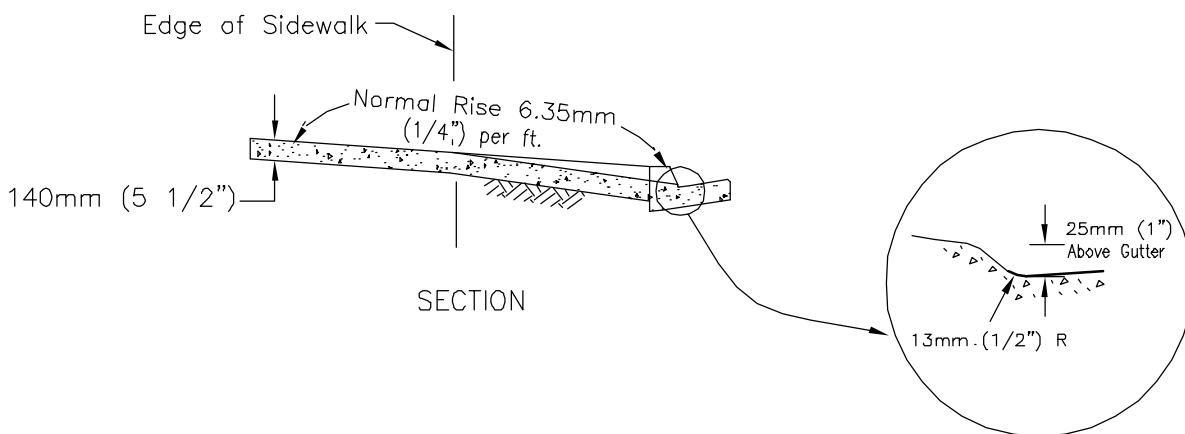
DRAWING NUMBER **G-14A**



PLAN



ELEVATION



SECTION

NOTES

1. No concrete shall be placed until forms and subgrade are inspected by the Agency.
2. Concrete shall be 308 kg/M3 C 17 Mpa (520-C-2500).
3. See Standard Drawings G-15 and G-16 for width and location requirements
4. Driveway ramp to extend to 3m (10') from curb face or to property line whichever is less. (For commercial driveways only)
5. See Standard Drawings G-2 and G-10 for curb and joint details.

Revision	By	Approved	Date
ORIGINAL		R. Munoz	4/97
Add Metric		T. Stanton	03/03

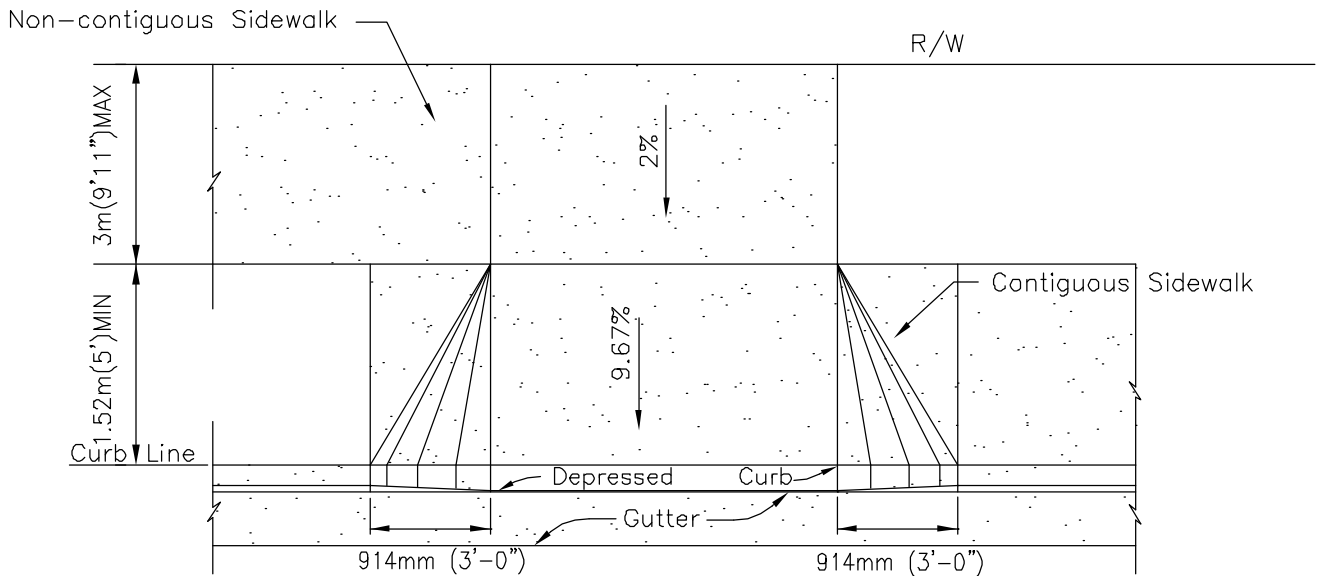
SAN DIEGO REGIONAL STANDARD DRAWING

**CONCRETE DRIVEWAY
(Non-contiguous Sidewalk)**

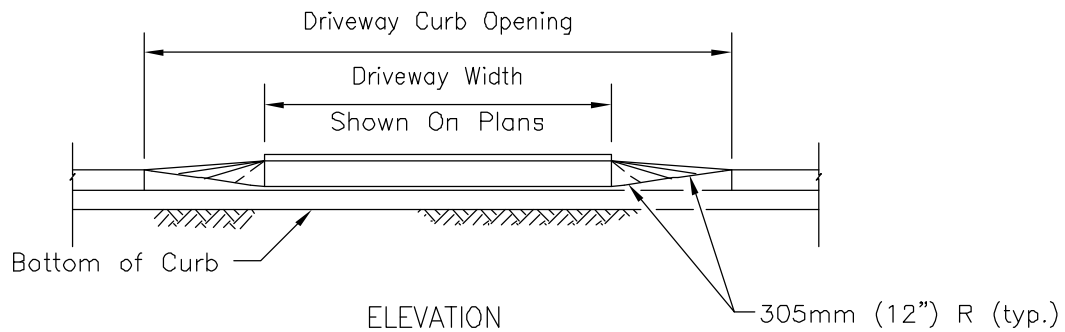
RECOMMENDED BY THE SAN DIEGO REGIONAL STANDARDS COMMITTEE

T. Stanton 31018005
Chairperson R.C.E. 19246 Date

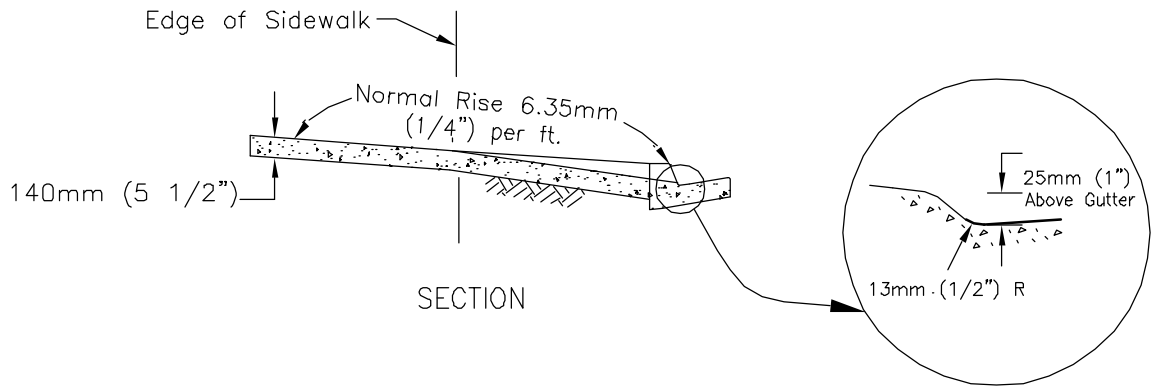
DRAWING NUMBER **G-14B**



PLAN



ELEVATION



SECTION

NOTES

1. No concrete shall be placed until forms and subgrade are inspected by the Agency.
2. Concrete shall be 308 kg/M3 C 17 Mpa (520-C-2500).
3. See Standard Drawings G-15 and G-16 for width and location requirements
4. Driveway ramp to extend to 3m (10') from curb face or to property line whichever is less. (For commercial driveways only)
5. See Standard Drawings G-2 and G-10 for curb and joint details.

Revision	By	Approved	Date
ORIGINAL		R. Munoz	4/97
Add Metric		T. Stanton	03/03

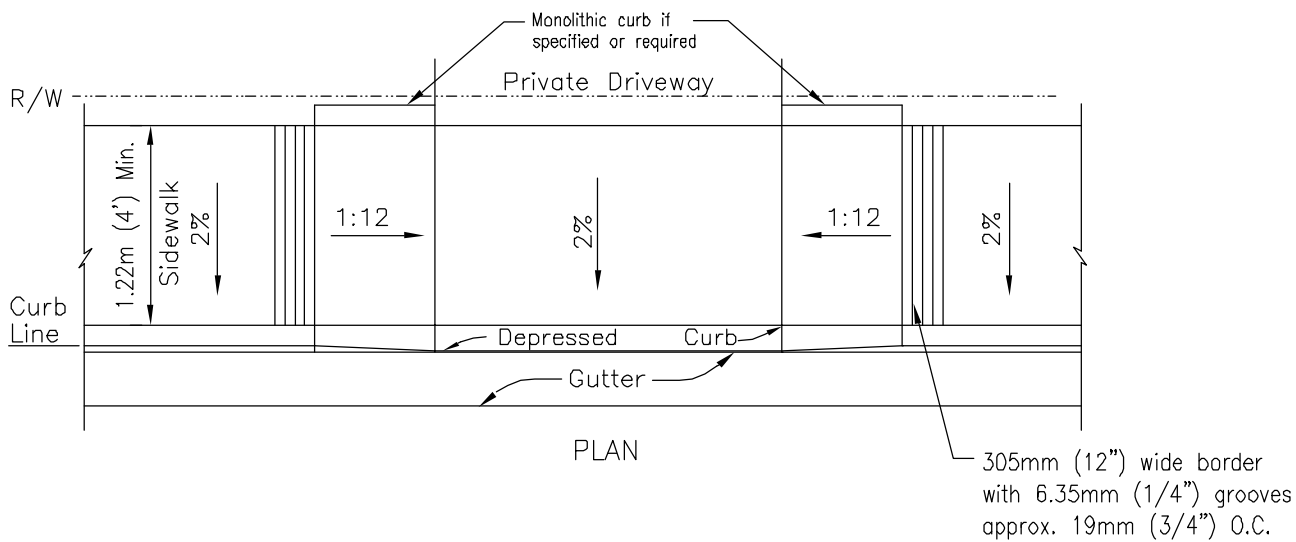
SAN DIEGO REGIONAL STANDARD DRAWING

**RESIDENTIAL
CONCRETE DRIVEWAY
(PARKWAY LESS THAN 10' IN DEPTH)**

RECOMMENDED BY THE SAN DIEGO REGIONAL STANDARDS COMMITTEE

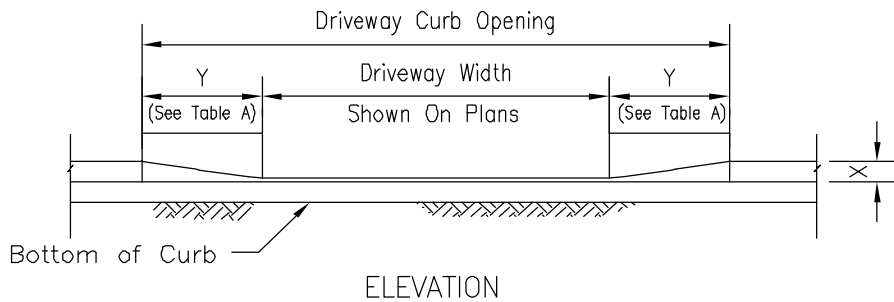
T. Stanton 3/01/2003
Chairperson R.C.E. 19246 Date

DRAWING NUMBER **G-14C**



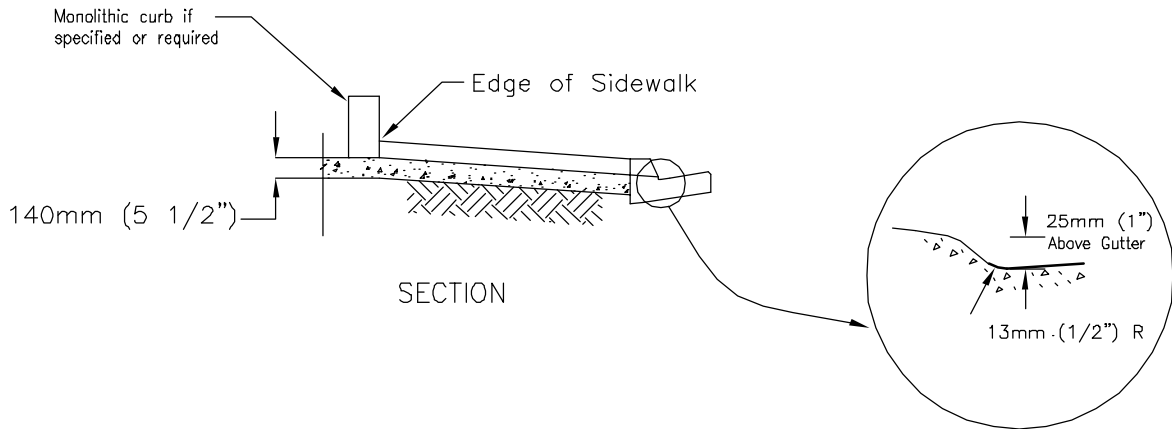
PLAN

305mm (12") wide border with 6.35mm (1/4") grooves approx. 19mm (3/4") O.C.



ELEVATION

X	Y
CURB HEIGHT	RAMP LENGTH
25mm (1")	152mm (0'-6")
51mm (2")	457mm (1'-6")
76mm (3")	762mm (2'-6")
102mm (4")	1.10m (3'-6")
127mm (5")	1.40m (4'-6")
152mm (6")	1.70m (5'-6")
178mm (7")	2.0m (6'-6")
203mm (8")	2.3m (7'-6")



SECTION

NOTES

1. No concrete shall be placed until forms and subgrade are inspected by the Agency.
2. Concrete shall be 308 kg/M3 C 17 Mpa (520-C-2500).
3. See Standard Drawings G-15 and G-16 for width and location requirements
4. See Standard Drawings G-2 and G-10 for curb and joint details.

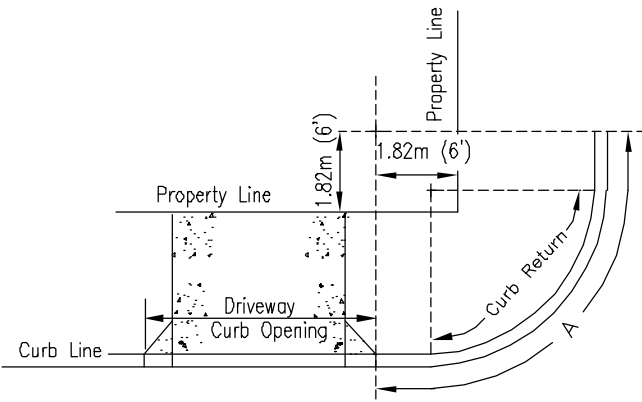
Revision	By	Approved	Date
ORIGINAL	HH	T. Stanton	02/03
Add Metric		T. Stanton	03/03

SAN DIEGO REGIONAL STANDARD DRAWING

Concrete Driveway
(for Confined Right-of-Way)

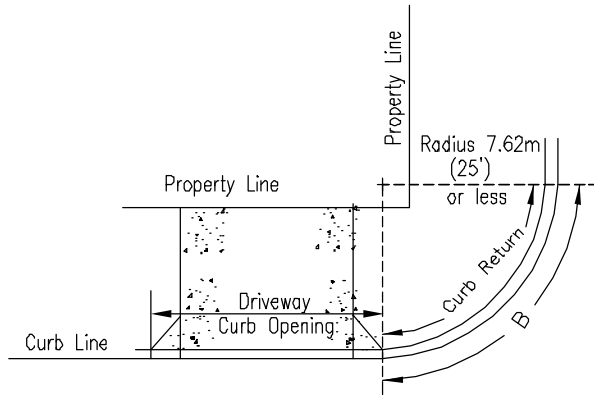
RECOMMENDED BY THE SAN DIEGO REGIONAL STANDARDS COMMITTEE
T. Stanton 31018005
Chairperson R.C.E. 19246 Date

DRAWING NUMBER **G-14D**



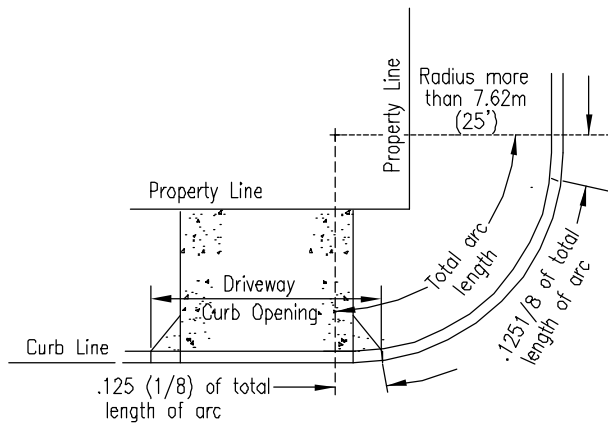
REQUIREMENT 1

No portion of any curb opening shall be permitted within 6' of the intersection of the prolonged property lines and the curb as shown by arc A.



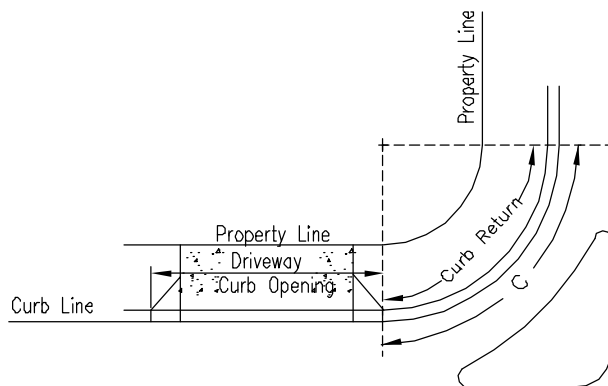
REQUIREMENT 2

No portion of any curb opening shall be permitted in the curb return where the radius of curb is 7.62m (25') or less, as shown by arc B.



REQUIREMENT 3

On all curb returns where the radius is more than 25', curb openings may encroach upon each end of the return a distance equal to 12 1/2% or .125 (1/8) of the total length of the arc on the curb return, thus leaving at least 75% of the length of arc on the return face free from driveway encroachment, provided Requirement 1 is met.



REQUIREMENT 4

No portion of any curb opening shall be permitted in the curb return where a separate turning movement is provided, as shown by arc C.

Revision	By	Approved	Date
ORIGINAL		Kercheval	12/75
Add Metric		T. Stanton	03/03

SAN DIEGO REGIONAL STANDARD DRAWING

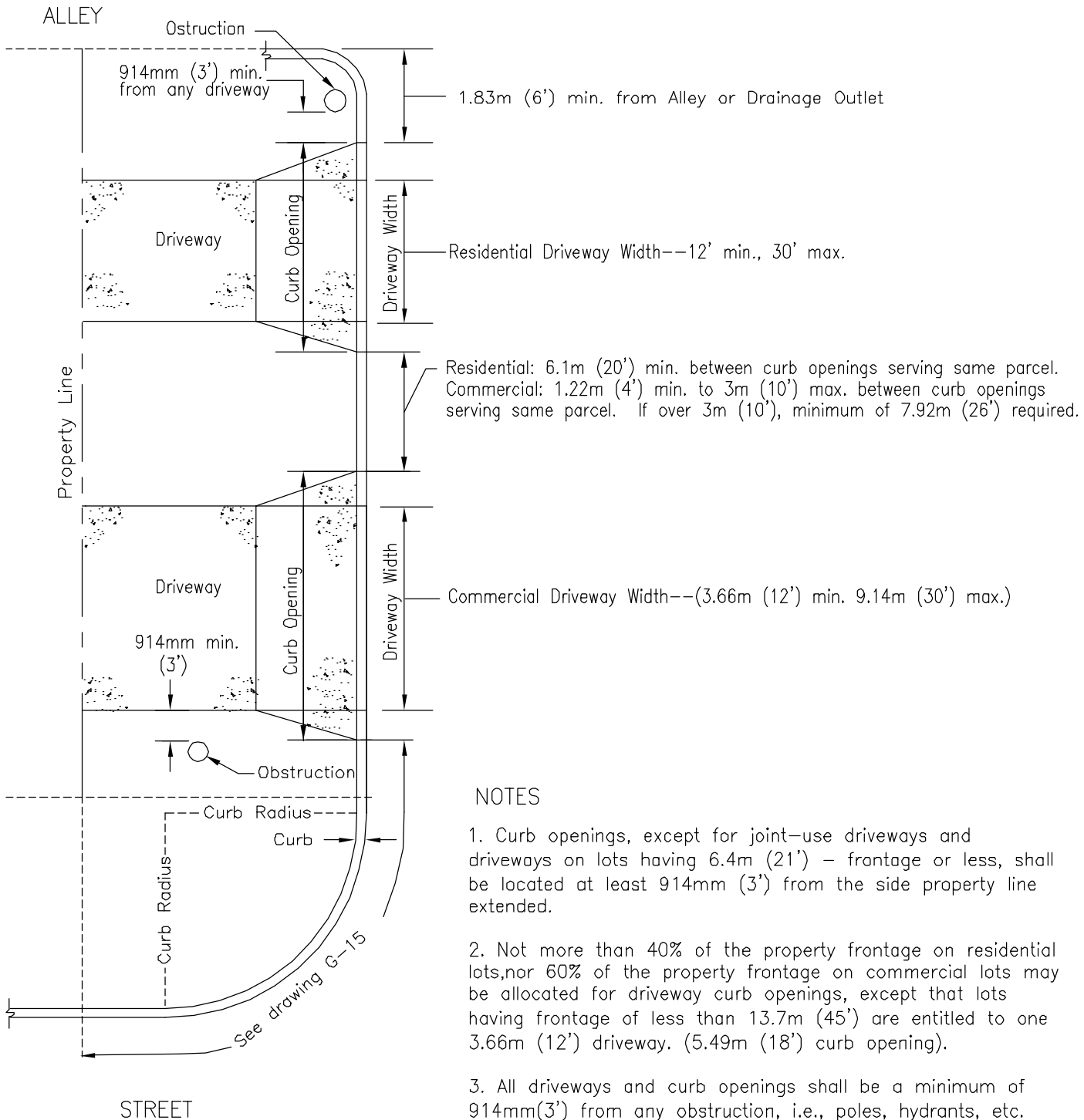
DRIVEWAY LOCATION - ADJACENT TO CURB RETURNS AND STREET LINES

RECOMMENDED BY THE SAN DIEGO REGIONAL STANDARDS COMMITTEE

T. Stanton 31018005

Chairperson R.C.E. 19246 Date

DRAWING NUMBER **G-15**



NOTES

1. Curb openings, except for joint-use driveways and driveways on lots having 6.4m (21') - frontage or less, shall be located at least 914mm (3') from the side property line extended.
2. Not more than 40% of the property frontage on residential lots, nor 60% of the property frontage on commercial lots may be allocated for driveway curb openings, except that lots having frontage of less than 13.7m (45') are entitled to one 3.66m (12') driveway. (5.49m (18') curb opening).
3. All driveways and curb openings shall be a minimum of 914mm(3') from any obstruction, i.e., poles, hydrants, etc.
4. No portion of any driveway shall be allowed across a line extending normal to the roadway from the front corner of the property, except that joint-use driveways may be permitted in special instances where written approval of both property owners is filed with the Agency.

Revision	By	Approved	Date
ORIGINAL		Kercheval	12/75
Add Metric		T. Stanton	03/03

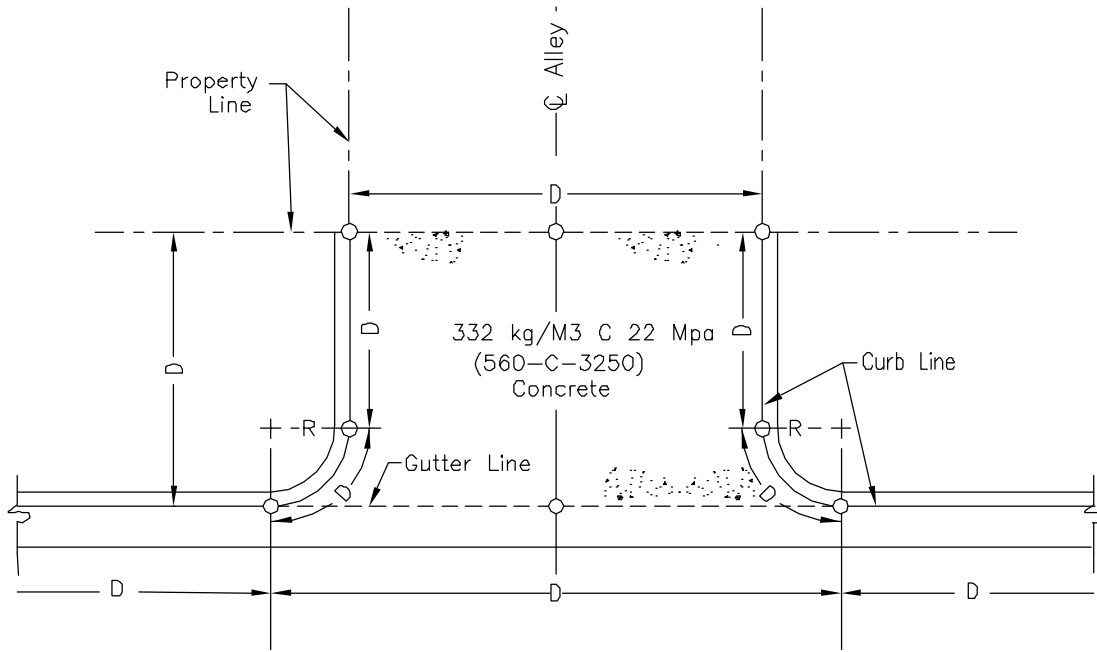
SAN DIEGO REGIONAL STANDARD DRAWING

**DRIVEWAY LOCATION
AND WIDTH REQUIREMENTS**

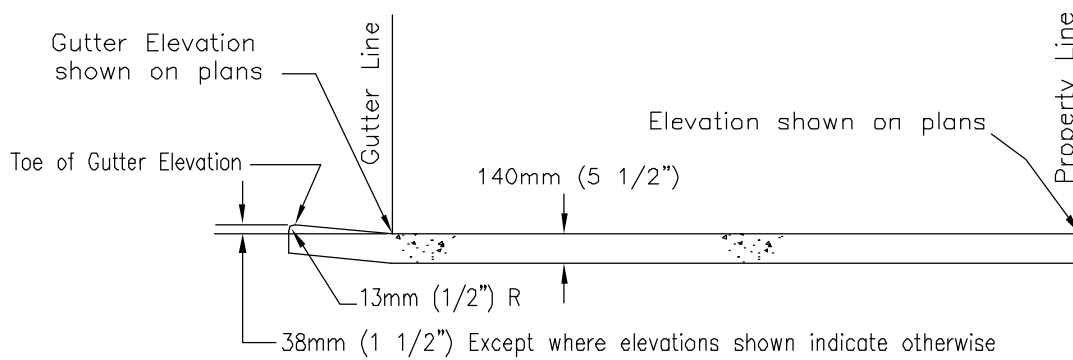
RECOMMENDED BY THE SAN DIEGO REGIONAL STANDARDS COMMITTEE

T. Stanton 3/03/03
Chairperson R.C.E. 19246 Date

DRAWING NUMBER **G-16**



PLAN

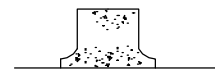


SECTION

NOTES

1. Sidewalk ramps shall be installed as required by Agency.
2. D= distance shown on plans.
3. R= radius shown on plans (914mm (3') minimum).
4. O = elevations shown on plans (top of curb, and gutter elev.)
5. --- = 13mm (1/2") expansion joints.

LEGEND ON PLANS



Revision	By	Approved	Date
ORIGINAL		Kercheval	12/75
Add Metric		T. Stanton	03/03

SAN DIEGO REGIONAL STANDARD DRAWING

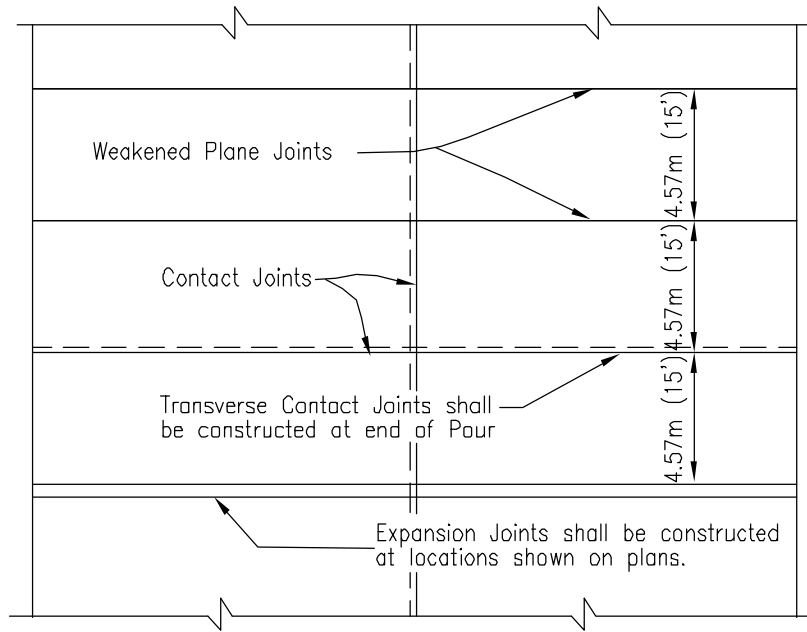
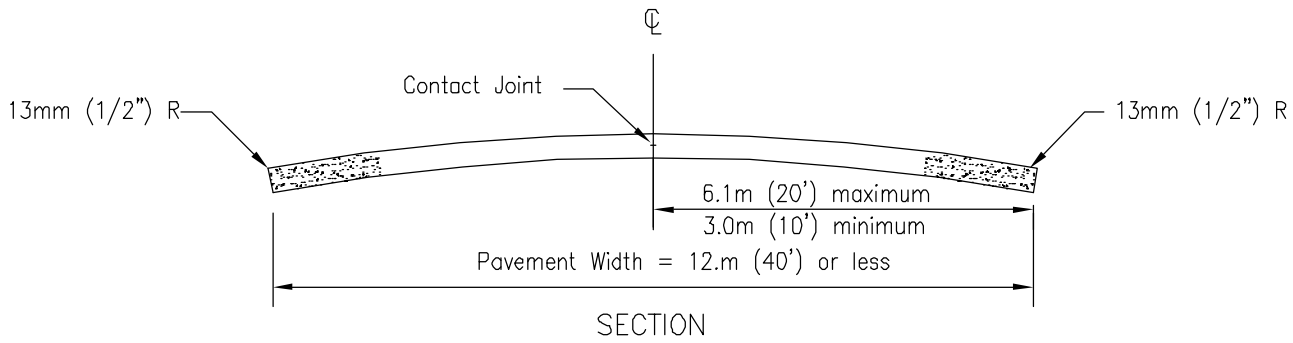
ALLEY APRON

RECOMMENDED BY THE SAN DIEGO REGIONAL STANDARDS COMMITTEE

T. Stanton 31018003

Chairperson R.C.E. 19246 Date

DRAWING NUMBER **G-17**



NOTES

1. Concrete shall be 332 kg/M3 C 22 Mpa (560-C-3250).
2. See Standard Drawing G-10 for joint details.
3. Adjust 4.57m (15') interval between Transverse Joints to match adjacent existing improvements.

Revision	By	Approved	Date
ORIGINAL		Kercheval	12/75
Add Metric		T. Stanton	03/03

SAN DIEGO REGIONAL STANDARD DRAWING

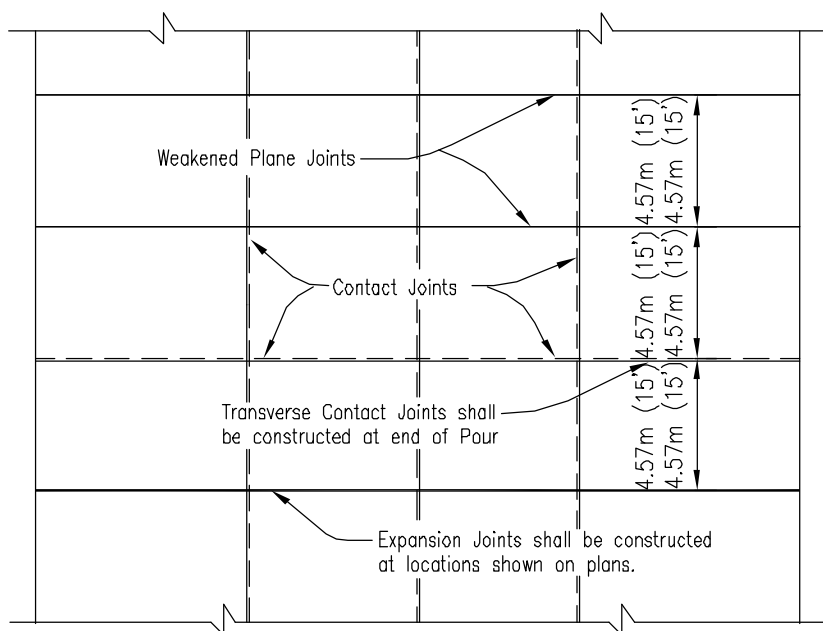
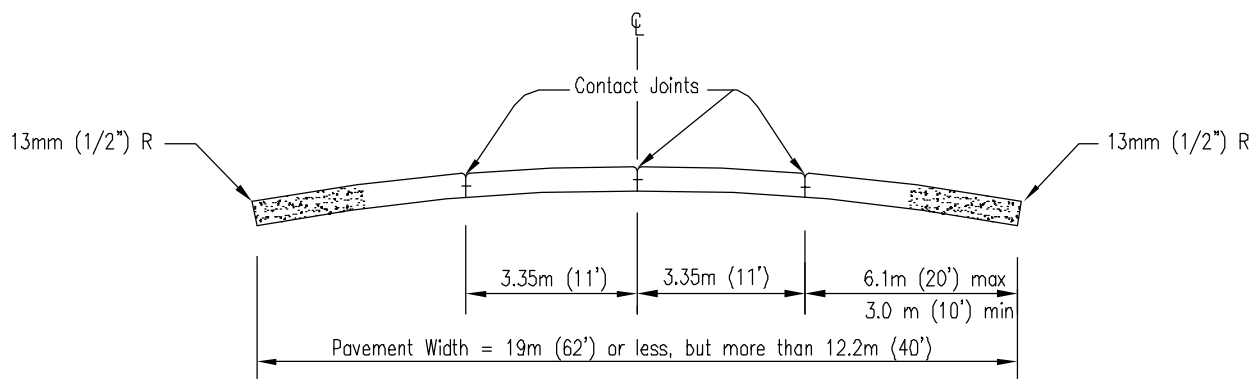
**CONCRETE PAVEMENT
WIDTH 40' OR LESS**

RECOMMENDED BY THE SAN DIEGO REGIONAL STANDARDS COMMITTEE

T. Stanton 5/10/2005

Chairperson R.C.E. 19246 Date

DRAWING NUMBER **G-18**



NOTES

1. Concrete shall be 332 kg/M3 C 22 Mpa (560-C-3250).
2. See Standard Drawing G-10 for joint details.
3. Adjust 4.57m (15') interval between Transverse Joints to match adjacent existing improvements.

Revision	By	Approved	Date
ORIGINAL		Kercheval	12/75
Add Metric		T. Stanton	03/03

SAN DIEGO REGIONAL STANDARD DRAWING

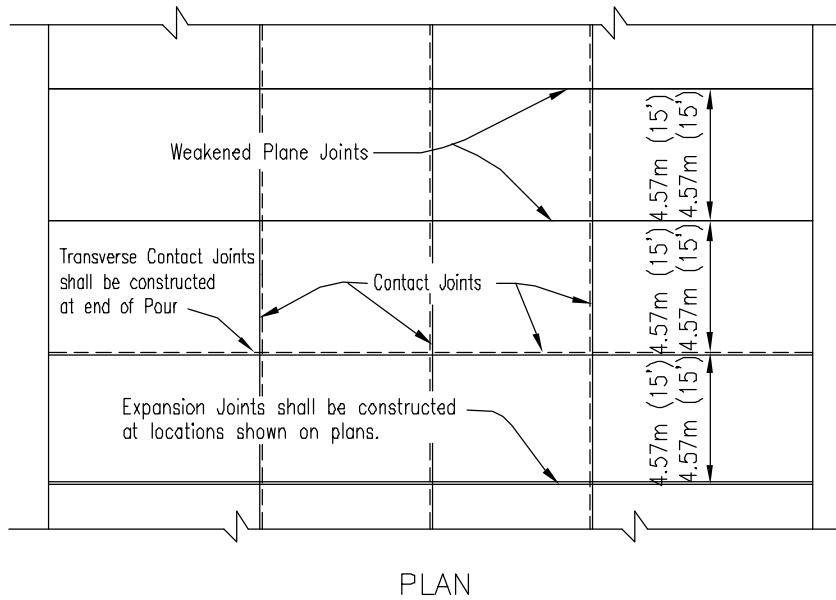
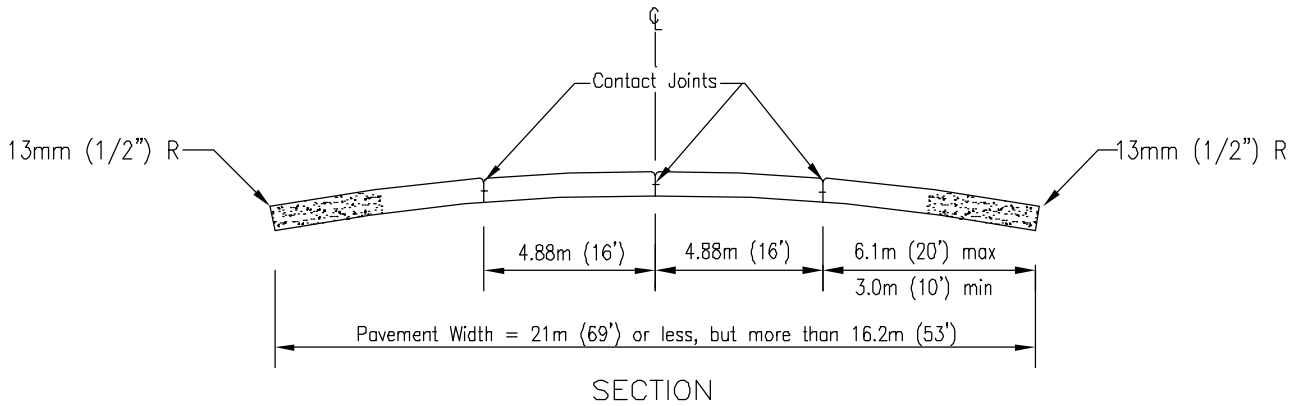
**CONCRETE PAVEMENT
WIDTH 40' TO 62'**

RECOMMENDED BY THE SAN DIEGO REGIONAL STANDARDS COMMITTEE

T. Stanton 51018005

Chairperson R.C.E. 19246 Date

DRAWING NUMBER **G-19**



NOTES

1. Concrete shall be 332 kg/M3 C 22 Mpa (560-C-3250).
2. See Standard Drawing G-10 for joint details.
3. Adjust 4.57m (15') interval between Transverse Joints to match adjacent existing improvements.

Revision	By	Approved	Date
ORIGINAL		Kercheval	12/75
Add Metric		T. Stanton	03/03

SAN DIEGO REGIONAL STANDARD DRAWING

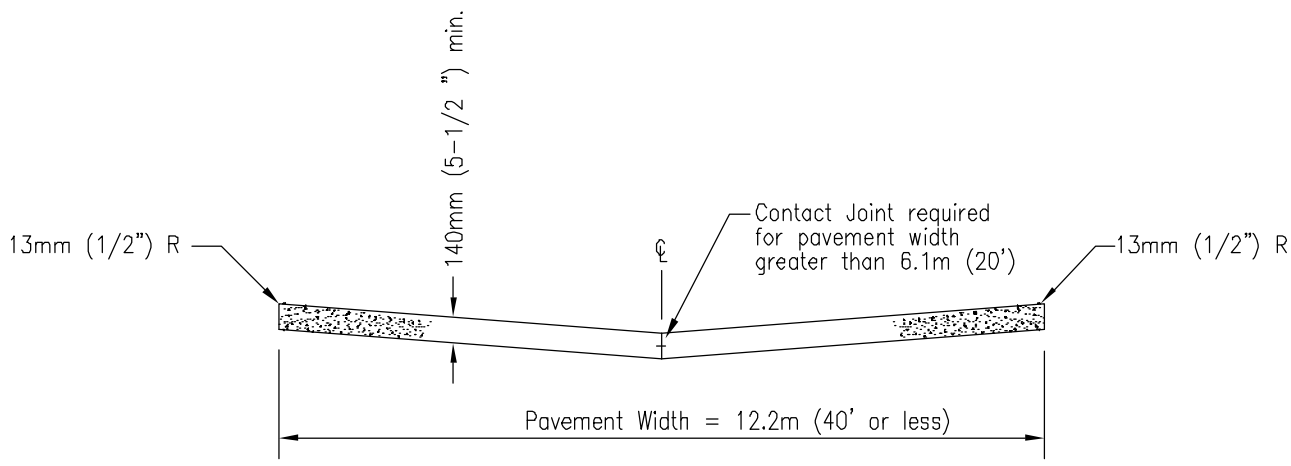
CONCRETE PAVEMENT, ALLEY SECTION

WIDTH 53' TO 69'

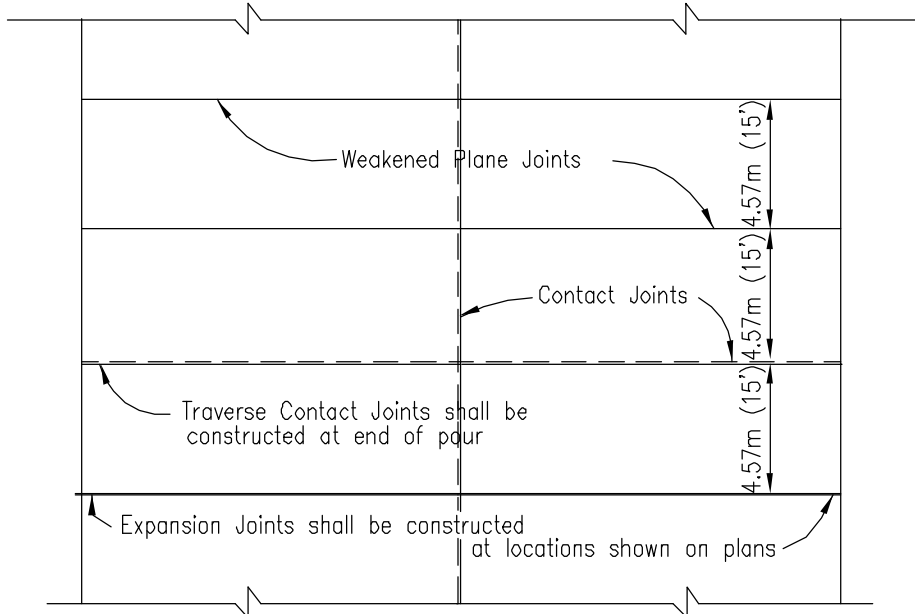
RECOMMENDED BY THE SAN DIEGO REGIONAL STANDARDS COMMITTEE

T. Stanton 5/01/2003
 Chairperson R.C.E. 19246 Date

DRAWING NUMBER **G-20**



SECTION



PLAN

NOTES

1. Concrete shall be 332 kg/M3 C 22 Mpa (560-C-3250).
2. See Standard Drawing G-10 for joint details.
3. Adjust 4.57m (15') interval between Transverse Joints to match adjacent existing improvements.

Revision	By	Approved	Date
ORIGINAL		Kercheval	12/75
Add Metric		T. Stanton	03/03

SAN DIEGO REGIONAL STANDARD DRAWING

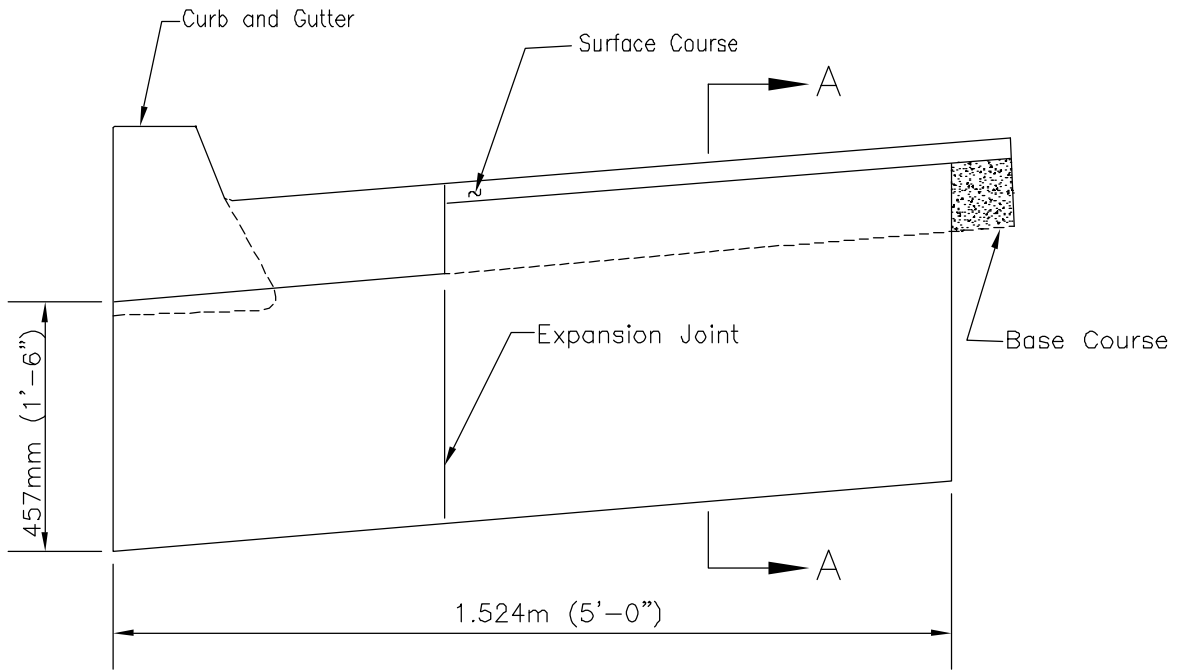
CONCRETE PAVEMENT

ALLEY SECTION, WIDTH 40' OR LESS

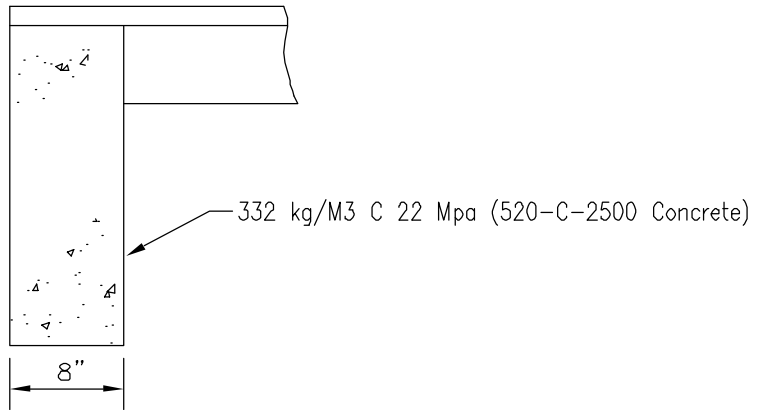
RECOMMENDED BY THE SAN DIEGO REGIONAL STANDARDS COMMITTEE

T. Stanton 3/01/2003
Chairperson R.C.E. 19246 Date

DRAWING NUMBER **G-21**



ELEVATION



SECTION A-A

LEGEND ON PLANS



Revision	By	Approved	Date
ORIGINAL		Kercheval	12/75
Add Metric		T. Stanton	03/03

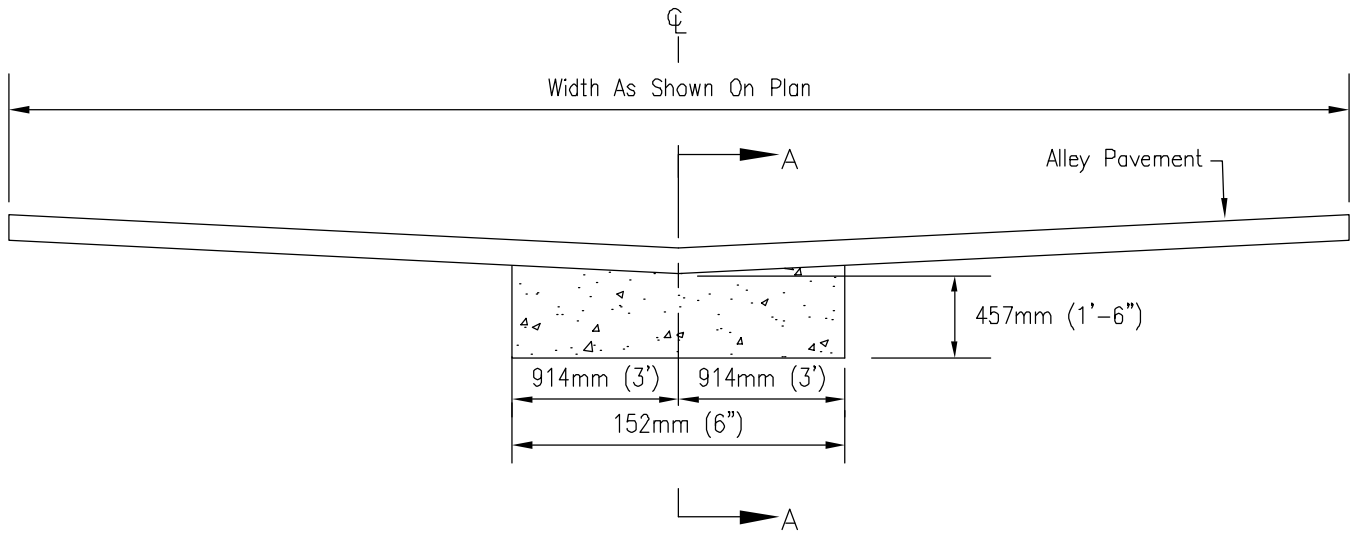
SAN DIEGO REGIONAL STANDARD DRAWING

**CUTOFF WALL
AT END OF PAVEMENT**

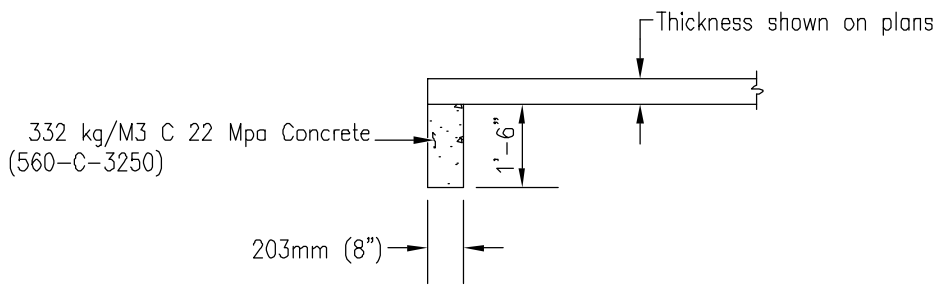
RECOMMENDED BY THE SAN DIEGO
REGIONAL STANDARDS COMMITTEE

T. Stanton 3/03/03
Chairperson R.C.E. 19246 Date

DRAWING
NUMBER **G-22**



ELEVATION



SECTION A-A

LEGEND ON PLANS



Revision	By	Approved	Date
ORIGINAL		Kercheval	12/75
Add Metric		T. Stanton	03/03

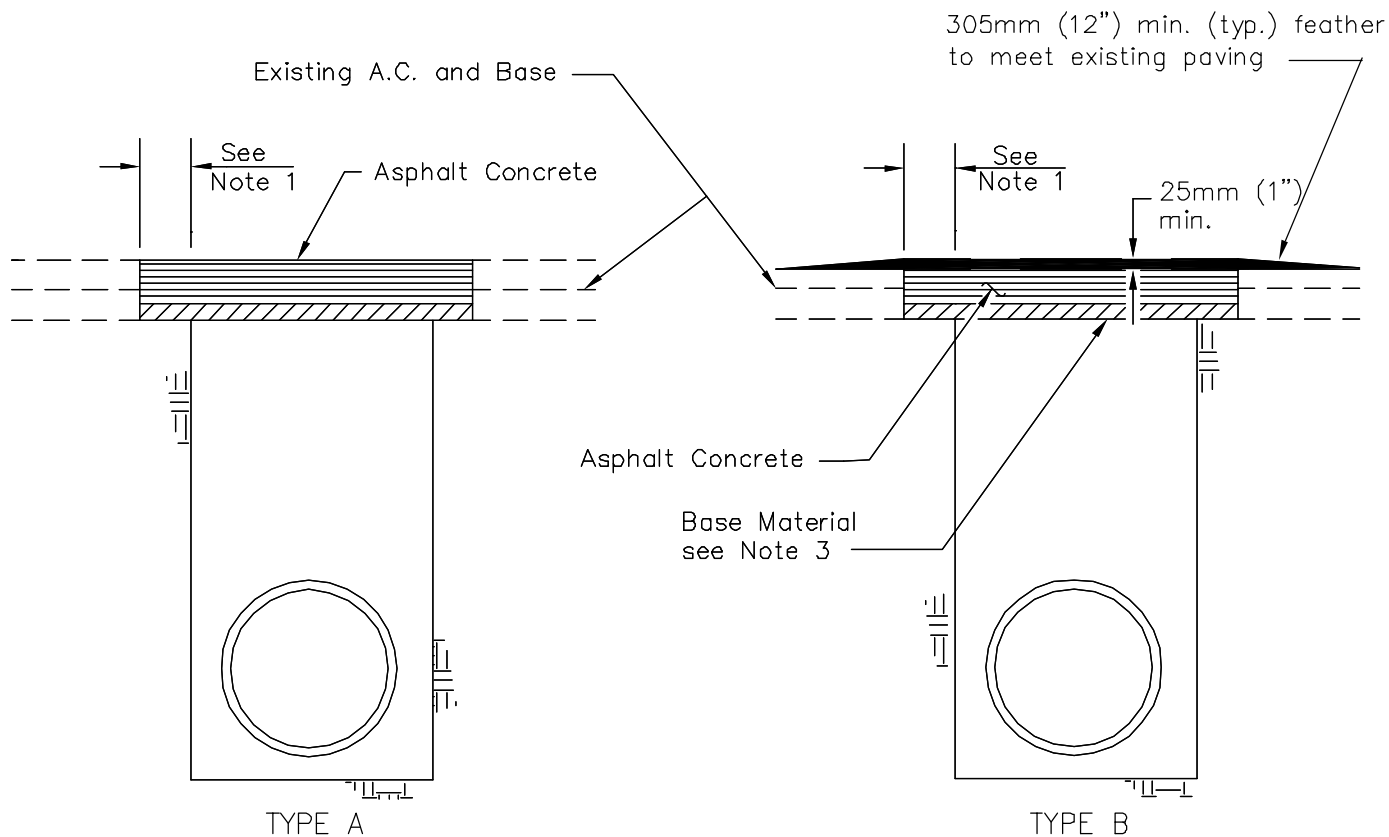
SAN DIEGO REGIONAL STANDARD DRAWING

**CUTOFF WALL
AT END OF ALLEY PAVEMENT**

RECOMMENDED BY THE SAN DIEGO REGIONAL STANDARDS COMMITTEE

T. Stanton 3/03/03
Chairperson R.C.E. 19246 Date

DRAWING NUMBER **G-23**



NOTES

1. Trench edges to be cut a minimum of 152mm (6") wider than trench for 914mm (3') wide or less, and 305mm (12") wider for trenches over 914mm (3') wide.
2. Existing A.C. shall be cut and removed in such a manner so as not to tear, bulge or displace adjacent pavement. Edges shall be clean and vertical. All cuts shall be parallel or perpendicular to street centerline, when practical.
3. Base material shall be replaced to depth of existing base. A.C. may be substituted for base material.
4. A tack coat of asphaltic emulsion or paving asphalt shall be applied to existing A.C. or P.C.C. contact surfaces, prior to resurfacing.
5. Asphalt Concrete Resurfacing:
 - a) Minimum total thickness shall be one inch greater than existing A.C.
 - b) A.C. shall be hot plant mix.
 - c) Finish course for Type B resurfacing shall be laid down using a spreader box.
6. All A.C. resurfacing shall be seal coated with an emulsified asphalt and covered with sand. Chip sealing shall be applied as required by Agency.
7. Type B shall not be used on lateral crossings.
8. Sloughing of trench under pavement shall be cause for requiring additional pavement and base.

Revision	By	Approved	Date
ORIGINAL		Parkinson	2/95
Add Metric		T. Stanton	03/03

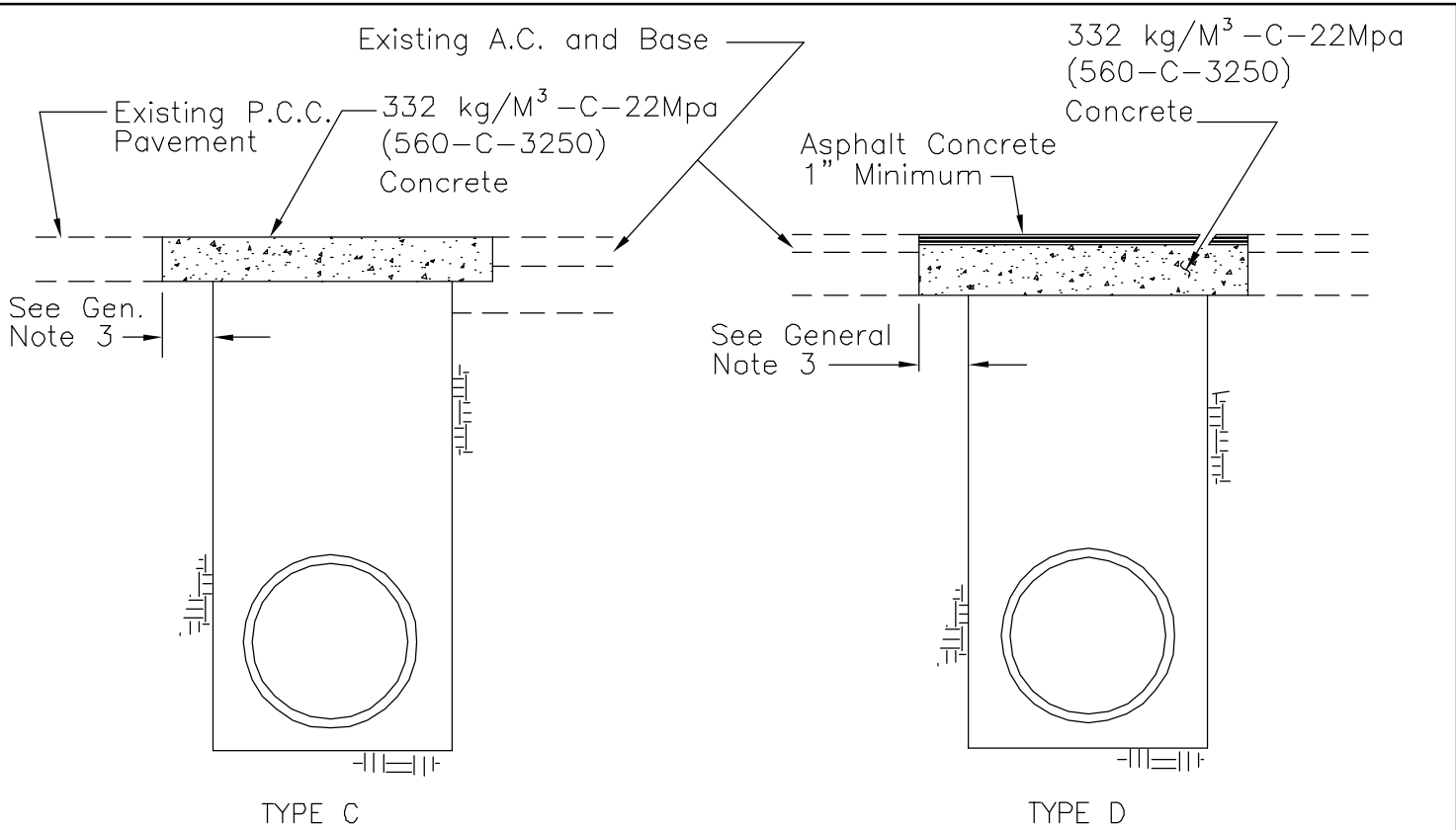
SAN DIEGO REGIONAL STANDARD DRAWING

**TRENCH RESURFACING
TYPES A & B**

RECOMMENDED BY THE SAN DIEGO REGIONAL STANDARDS COMMITTEE

T. Stanton 31018005
Chairperson R.C.E. 19246 Date

DRAWING NUMBER **G-24**



GENERAL NOTES

- Existing A.C. shall be cut and removed in such a manner so as not to tear, bulge or displace adjacent pavement. Edges shall be clean and vertical. All cuts shall be parallel or perpendicular to street centerline, when practical.
- Sloughing of trench under pavement shall be cause for requiring additional pavement and base.
- Trench edges to be cut a minimum of 152mm(6") wider than trench for 914mm (3') wide or less, and 305mm (12") wider for trenches over 914mm (3') wide.

NOTES TYPE-C

- Concrete shall be colored black where required to match existing pavement, method to be specified by Agency.
- Minimum concrete thickness:
 Alleys and local residential street -----127mm (5 inches)
 Major streets and highway -----178mm (7 inches)
 Trench resurfacing in P.C.C. pavement shall have the above minimum thickness or match the existing concrete thickness plus one inch, whichever is greater.

NOTES TYPE-D

- A.C. shall be hot plant mix.
- A tack coat of asphaltic emulsion or paving asphalt shall be applied to the existing A.C. at all contact surfaces and to portland cement concrete prior to placing new A.C.
- A.C. resurfacing shall be seal coated with an emulsified asphalt and covered with sand. Chip sealing shall be applied as required by Agency.

Revision	By	Approved	Date
ORIGINAL		Parkinson	2/95
Add Metric		T. Stanton	03/03

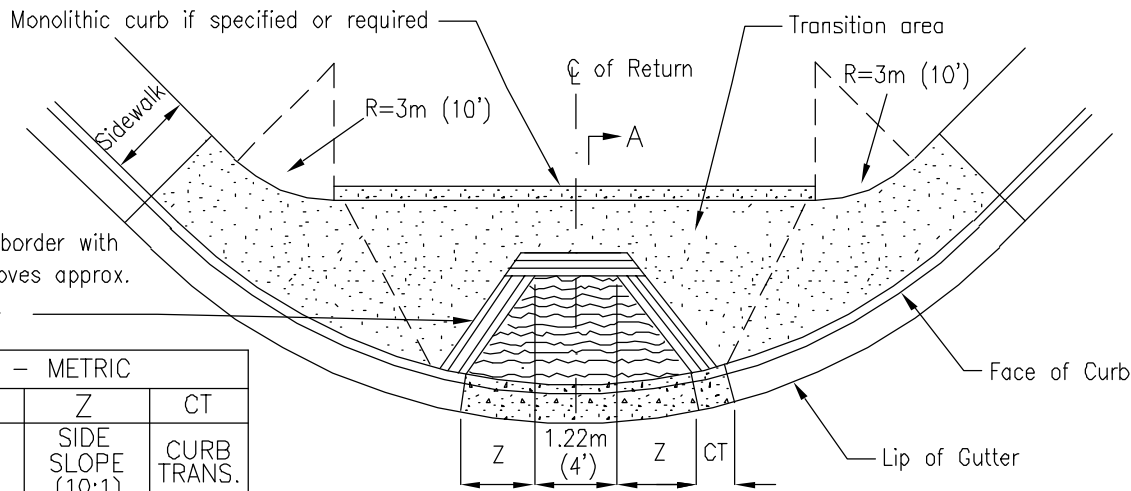
SAN DIEGO REGIONAL STANDARD DRAWING

**TRENCH RESURFACING
TYPES C & D**

RECOMMENDED BY THE SAN DIEGO REGIONAL STANDARDS COMMITTEE

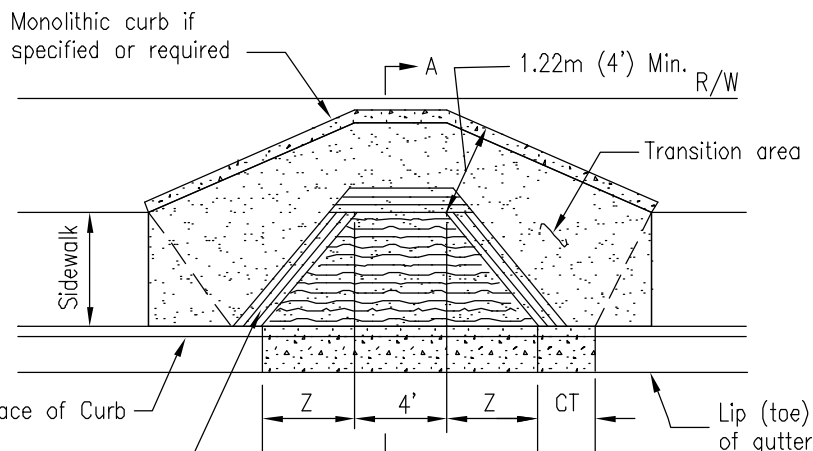
T. Stanton 5/01/2005
 Chairperson R.C.E. 19246 Date

DRAWING NUMBER **G-25**



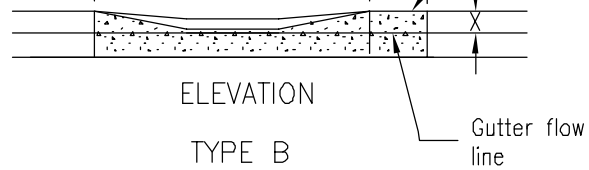
305mm (12") wide border with
6.35mm (1/4") grooves approx.
19.1mm (3/4") O.C.

PLAN - TYPE A



ELEVATION
TYPE B

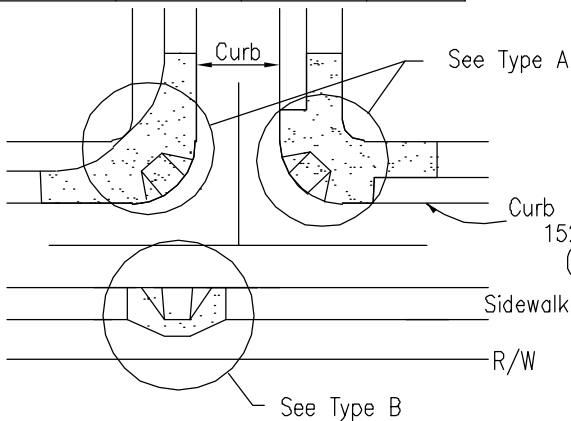
305mm (12") wide border with
6.35mm (1/4") grooves approx.
19.1mm (3/4") O.C.



SECTION A-A

TABLE A - METRIC			
X	Y	Z	CT
CURB HEIGHT	RAMP LENGTH (12:1)	SIDE SLOPE (10:1)	CURB TRANS.
25mm	152mm	457mm	0
51mm	457mm	457mm	0
76mm	762mm	635mm	0
102mm	1.07m	889mm	0
127mm	1.37m	1.14m	0
152mm	1.68m	1.4m	0
178mm	1.98m	1.4m	305mm
203mm	2.29m	1.4m	610mm

TABLE A - U.S.			
X	Y	Z	CT
CURB HEIGHT	RAMP LENGTH (12:1)	SIDE SLOPE (10:1)	CURB TRANS.
1"	0'-6"	1'-6"	0'-0"
2"	1'-6"	1'-6"	0'-0"
3"	2'-6"	2'-1"	0'-0"
4"	3'-6"	2'-11"	0'-0"
5"	4'-6"	3'-9"	0'-0"
6"	5'-6"	4'-7"	0'-0"
7"	6'-6"	4'-7"	1'-0"
8"	7'-6"	4'-7"	2'-0"



NOTE

See Standard Drawing G-32 for general notes.

Revision	By	Approved	Date
ORIGINAL		M. Bahmanian	4/86
Add Metric		T. Stanton	03/03

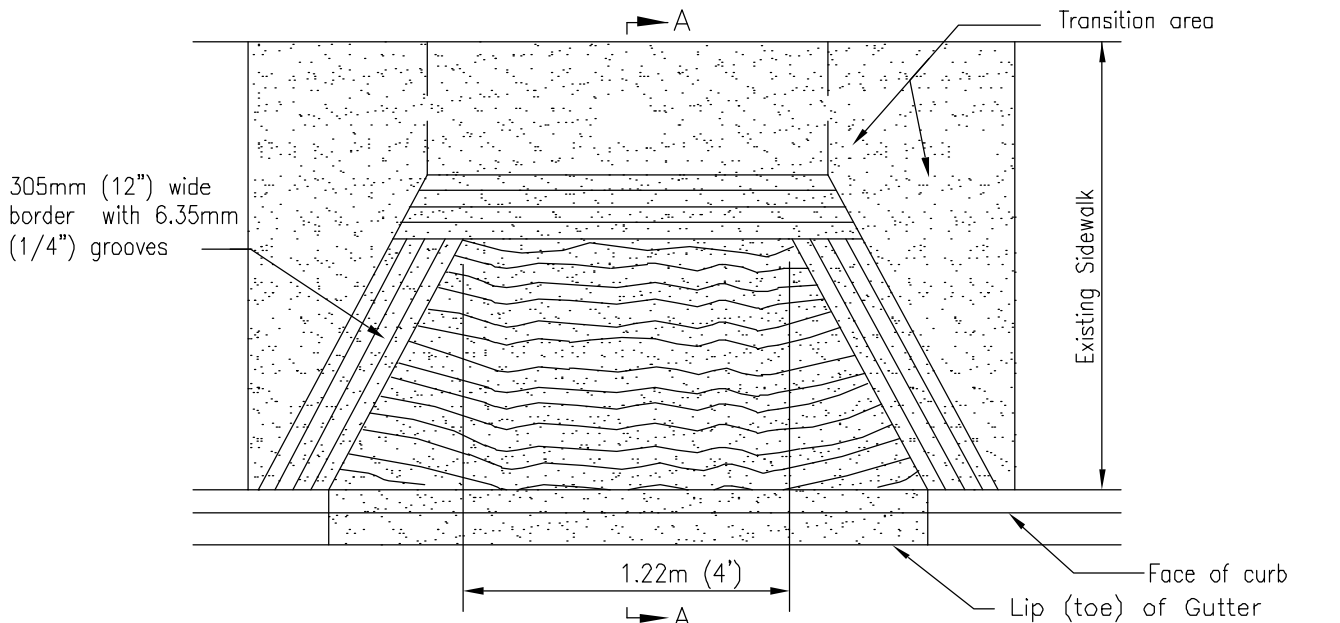
SAN DIEGO REGIONAL STANDARD DRAWING

CURB RAMP - TYPES A and B
(New Construction)

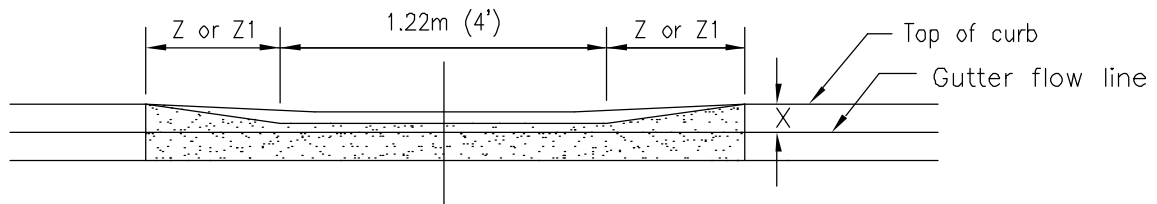
RECOMMENDED BY THE SAN DIEGO REGIONAL STANDARDS COMMITTEE

T. Stanton 31018005
Chairperson R.C.E. 19246 Date

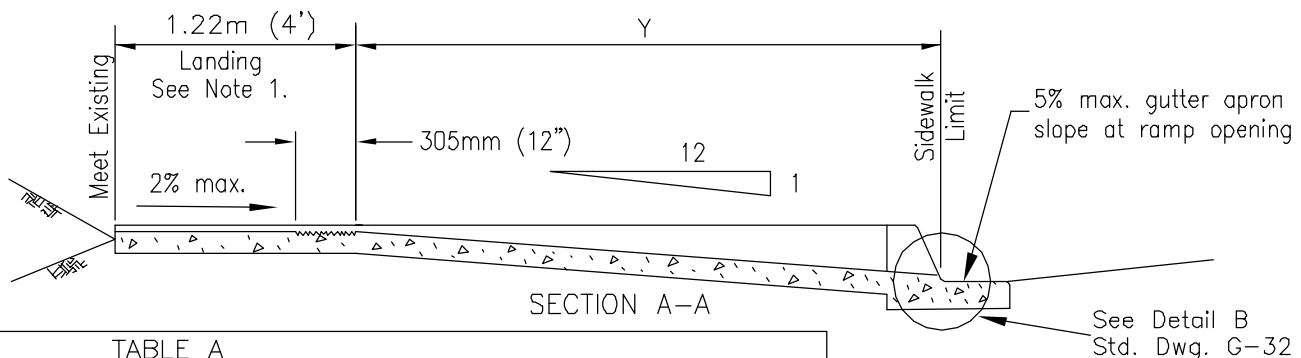
DRAWING NUMBER **G-27**



PLAN (TYPE B-1)



ELEVATION



SECTION A-A

TABLE A

X	Y	Z	Z1
CURB HEIGHT	RAMP LENGTH (12:1)	SIDE SLOPE (10:1)	SIDE SLOPE (12:1)
1" *	152mm (0'-6")	457mm (1'-6")	457mm (1'-6")
2"	457mm (1'-6")	457mm (1'-6")	457mm (1'-6")
3"	762mm (2'-6")	635mm (2'-1")	762mm (2'-6")
4"	1.1m (3'-6")	889mm (2'-11")	1.1m (3'-6")
5"	1.34m (4'-6")	1.14m (3'-9")	1.37m (4'-6")
6"	1.68m (5'-6")	1.4m (4'-7")	1.68m (5'-6")
7"	1.98m (6'-6")	1.65m (5'-5")	1.98m (6'-6")
8"	2.29m (7'-6")	1.91m (6'-3")	2.29m (7'-6")

NOTES

1. If inadequate R/W exists to provide a 4' landing, a landing width less than 1.22m (4') but at least 3' is acceptable if the side slopes are revised to 12:1 per side slope Z1 in table A.
2. See Standard Drawing G-32 for general notes.
3. Type A-1 is a designation for ramp at curb return.
4. Type B-1 is a designation for ramp at straight curb. (Shown above)
- *5. Delete 305mm (12") wide border when X=1"

Revision	By	Approved	Date
ORIGINAL		G.Parkinson	2/95
Add Metric		T. Stanton	03/03

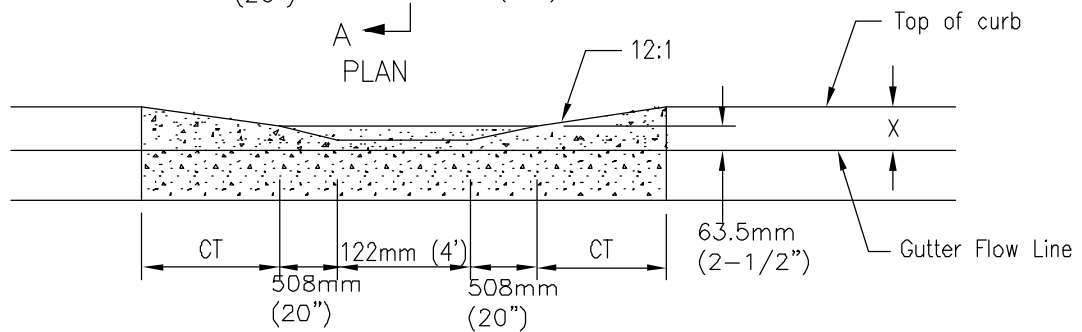
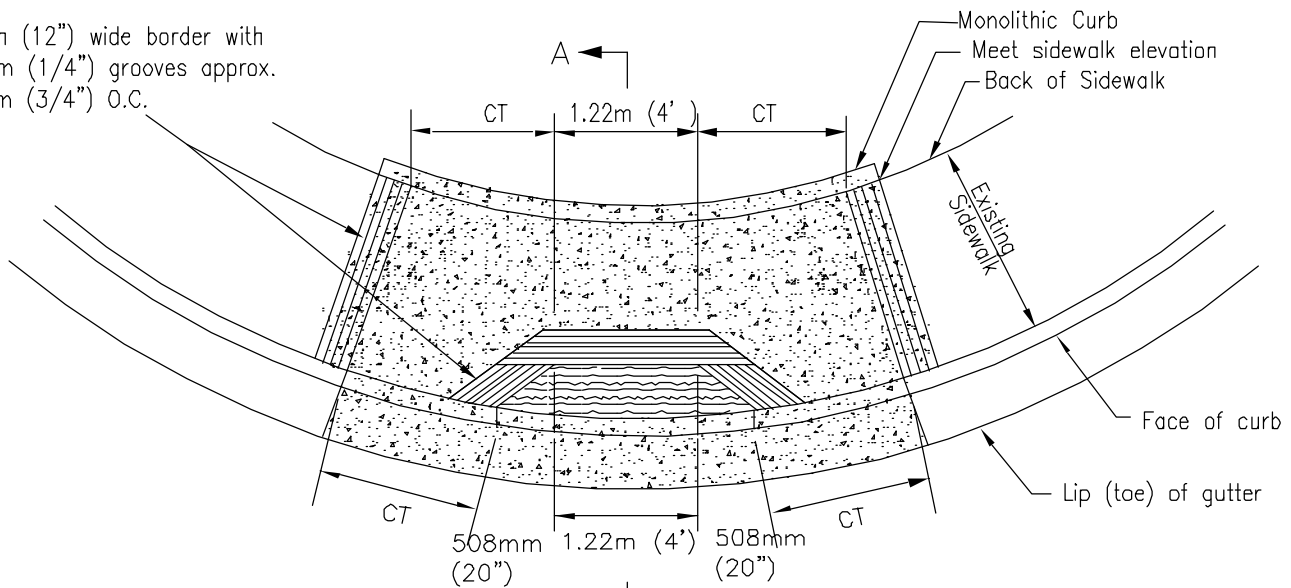
SAN DIEGO REGIONAL STANDARD DRAWING

CURB RAMP - TYPES A-1 and B-1
(For Existing Sidewalk)

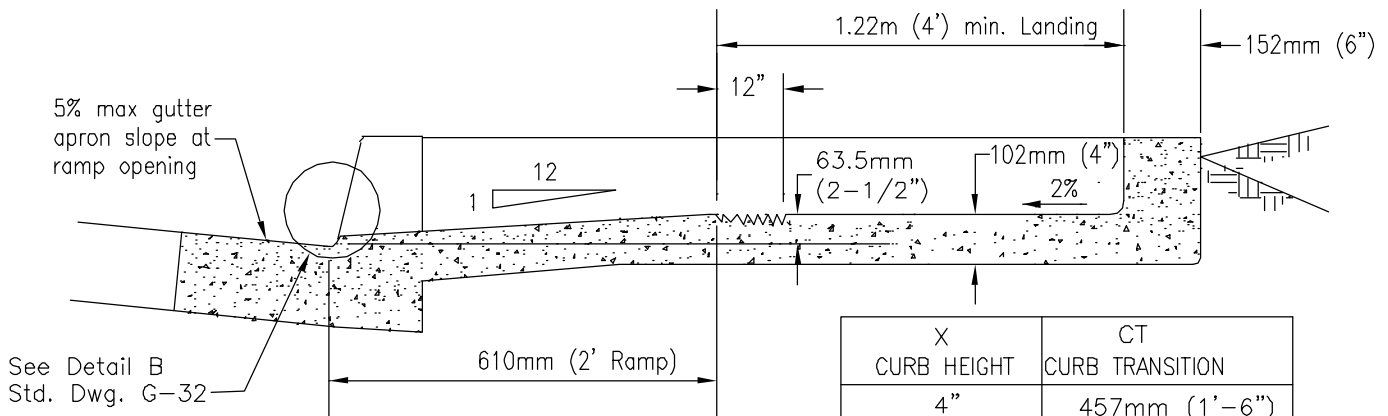
RECOMMENDED BY THE SAN DIEGO REGIONAL STANDARDS COMMITTEE
T. Stanton 3/01/003
Chairperson R.C.E. 19246 Date

DRAWING NUMBER **G-28**

305mm (12") wide border with
6.35mm (1/4") grooves approx.
19.1mm (3/4") O.C.



ELEVATION



SECTION A-A

X CURB HEIGHT	CT CURB TRANSITION
4"	457mm (1'-6")
5"	762mm (2'-6")
6"	1.10m (3'-6")
7"	1.37m (4'-6")
8"	1.68m (5'-6")
9"	1.98m (6'-6")
10"	2.29m (7'-6")
11"	2.59m (8'-6")
12"	2.90m (9'-6")
13"	3.2m (10'-6")

NOTES

1. Type C ramps are only to be used to mitigate existing conditions where inadequate right of way exists to use Standard Drawing G-28 or G-30, and are not to be used in new construction.
2. See Standard Drawing G-32 for general notes.

Revision	By	Approved	Date
ORIGINAL	R. Munoz		5/97
Add Metric	T. Stanton		03/03

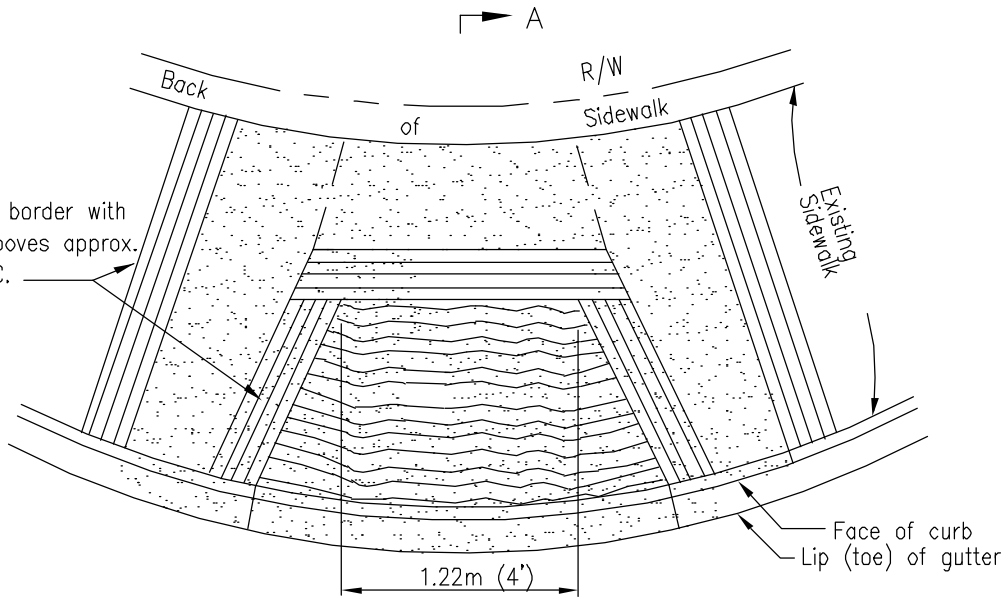
SAN DIEGO REGIONAL STANDARD DRAWING

CURB RAMP - TYPE C
(For Existing Sidewalk)

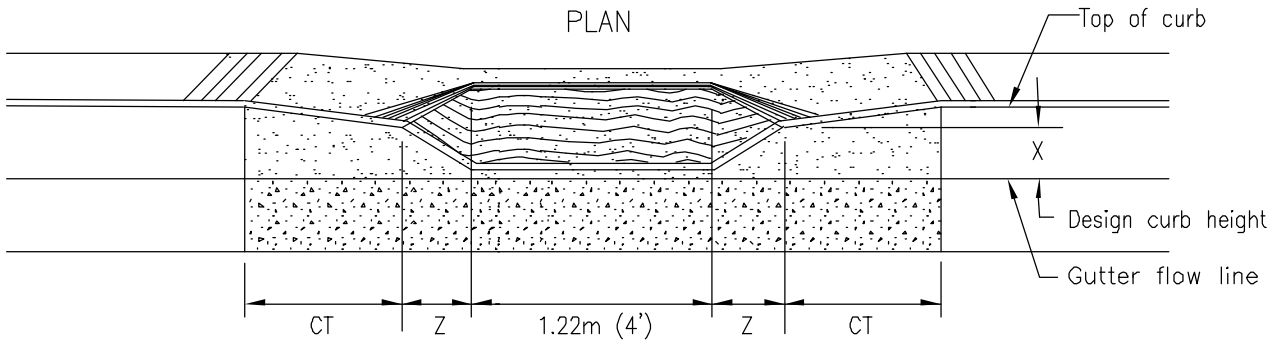
RECOMMENDED BY THE SAN DIEGO
REGIONAL STANDARDS COMMITTEE
T. Stanton 31018003
Chairperson R.C.E. 19246 Date

DRAWING
NUMBER **G-29**

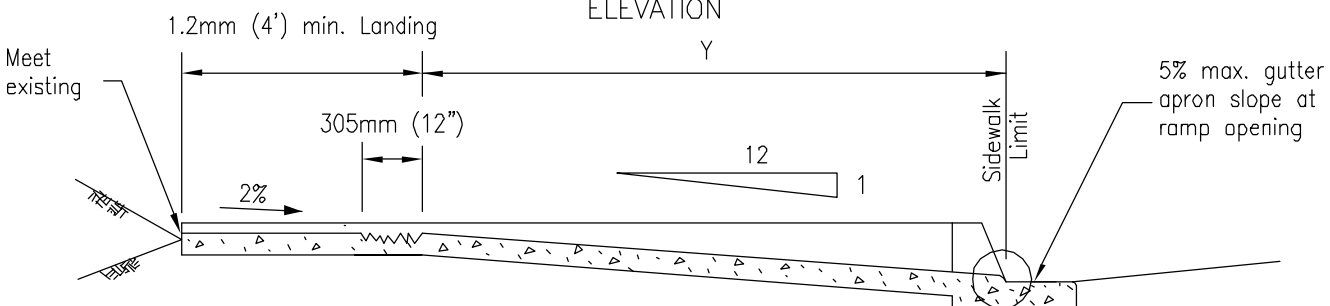
305mm (12") wide border with
6.35mm (1/4") grooves approx.
19.1mm (3/4") O.C.



PLAN



ELEVATION



SECTION A-A

X	Y	Z	CT
CURB HEIGHT	RAMP LENGTH (12:1)	SIDE SLOPE (10:1)	CURB TRANS.
1" *	152mm (0'-6")	457mm (1'-6")	(SEE NOTE NO. 3)
2"	457mm (1'-6")	457mm (1'-6")	
3"	762mm (2'-6")	635mm (2'-1")	
4"	1.1m (3'-6")	889mm (2'-11")	
5"	1.34m (4'-6")	1.14m (3'-9")	
6"	1.68m (5'-6")	1.4m (4'-7")	
7"	1.98m (6'-6")	1.65m (5'-5")	
8"	2.29m (7'-6")	1.91m (6'-3")	

NOTES

1. See Standard Drawing G-32 for general notes.
2. X= Design Curb Height as shown on plans.
3. Curb transition (CT) shall be 305mm (1'-0") for each one inch difference between existing curb height and design curb height.
4. If specified, construct monolithic curb at back of ramp as in Std. Dwg. G-29
- * 5. Delete 305mm (12") inside border at ramp when X=1".

Revision	By	Approved	Date
ORIGINAL		G.Parkinson	2/95
Add Metric		T. Stanton	03/03

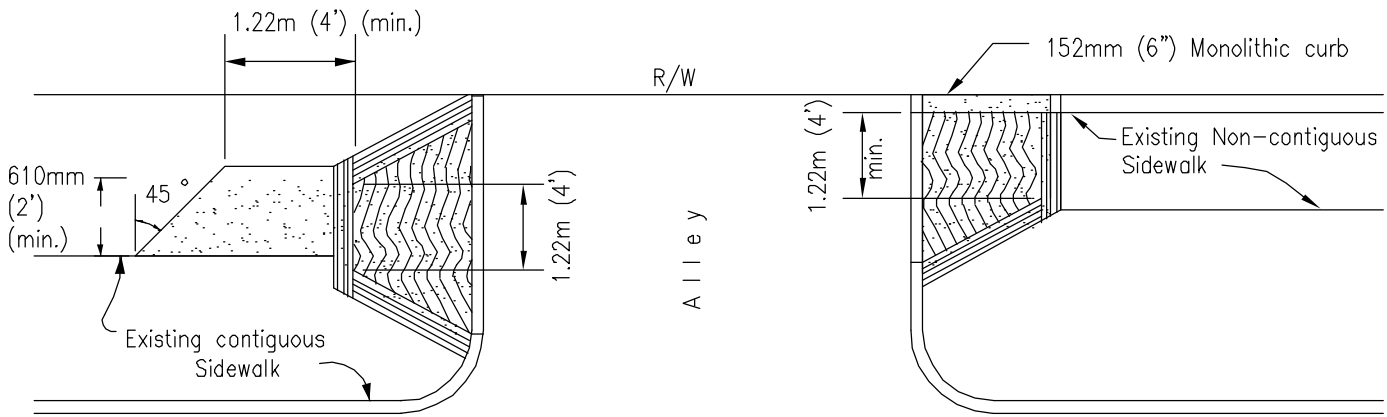
SAN DIEGO REGIONAL STANDARD DRAWING

CURB RAMP - TYPE C-1
(For Existing Sidewalk)

RECOMMENDED BY THE SAN DIEGO REGIONAL STANDARDS COMMITTEE

T. Stanton 3/01/003
Chairperson R.C.E. 19246 Date

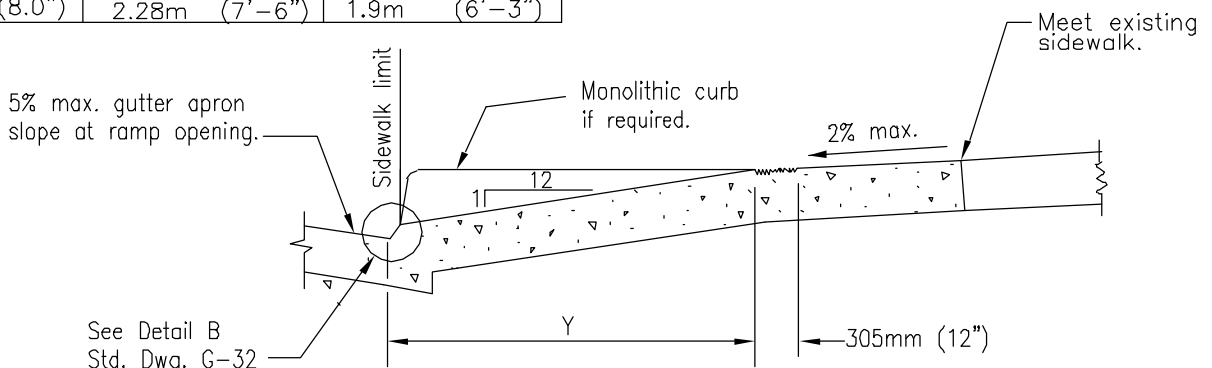
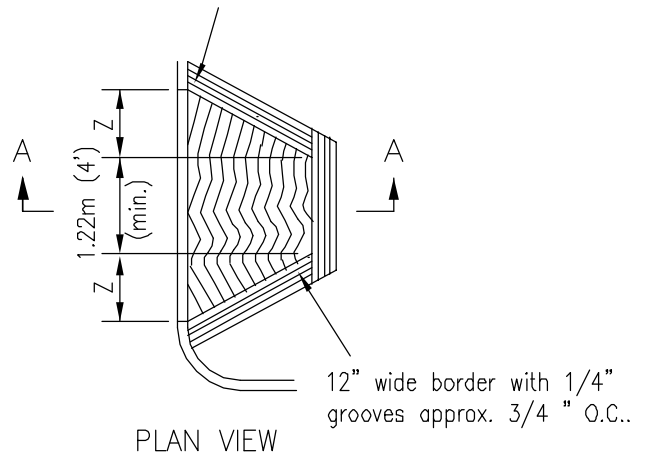
DRAWING NUMBER **G-30**



Street
TYPICAL PLAN

X	Y	Z
CURB * HEIGHT	RAMP LENGTH (12:1)	SIDE SLOPE (10:1)
25mm (1.0")	457mm (1'-6")	457mm (1'-6")
38mm (1.5")	457mm (1'-6")	457mm (1'-6")
51mm (2.0")	457mm (1'-6")	457mm (1'-6")
64mm (2.5")	610mm (2'-0")	508mm (1'-8")
76mm (3.0")	762mm (2'-6")	635mm (2'-1")
89mm (3.5")	914mm (3'-0")	762mm (2'-6")
102mm (4.0")	1.06m (3'-6")	889mm (2'-11")
114mm (4.5")	1.22m (4'-0")	1.01m (3'-4")
127mm (5.0")	1.34m (4'-6")	1.14m (3'-9")
140mm (5.5")	1.52m (5'-0")	1.27m (4'-2")
152mm (6.0")	1.68m (5'-6")	1.40m (4'-7")
165mm (6.5")	1.83m (6'-0")	1.53m (5'-0")
178mm (7.0")	1.98m (6'-6")	1.65m (5'-5")
191mm (7.5")	2.13m (7'-0")	1.78m (5'-10")
203mm (8.0")	2.28m (7'-6")	1.9m (6'-3")

Property side "Z" dimension and grooves may be eliminated by the Engineer and replaced by a monolithic curb flush with the existing ground and sidewalk.



SECTION A-A

NOTES

1. See Standard Drawing G-32 for general notes.
- * 2. Curb height (X) is measured at center of ramp.

Revision	By	Approved	Date
ORIGINAL		G.Parkinson	2/95
Add Metric		T. Stanton	03/03

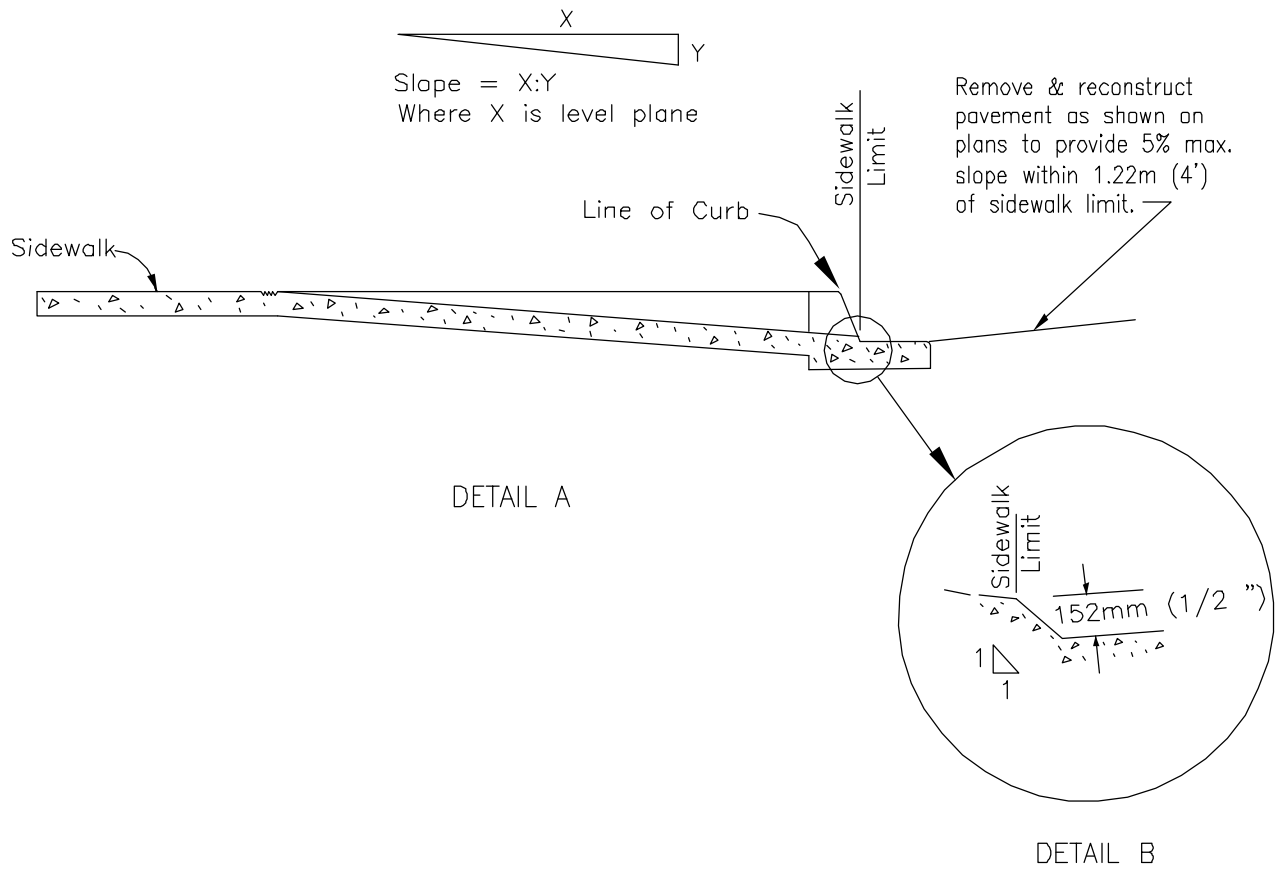
SAN DIEGO REGIONAL STANDARD DRAWING

CURB RAMP - TYPE D

RECOMMENDED BY THE SAN DIEGO REGIONAL STANDARDS COMMITTEE

 Chairperson R.C.E. 19246 Date

DRAWING NUMBER **G-31**



NOTES

1. The removal of existing concrete curb, gutter, sidewalk and pavement for pedestrian ramp installation shall comply with Standard Drawing G-11.
2. Areas shown thus: shall have a heavy broom "ripple" texture finish, transverse to axis of ramp contrasting visually with adjoining surfaces.
3. Areas shown thus: are the minimum required for a complete ramp installation and shall be concrete class 308 kg/M3 C 17 Mpa (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.
5. Ramp slope shall be a minimum grade of 15:1.
6. The ramp slopes will be measured relative to the sidewalk slope, see Detail A below. Adjoining slope beyond ramp shall not exceed 20:1 (5%).

Revision	By	Approved	Date
ORIGINAL		G.Parkinson	2/95
Add Metric		T. Stanton	03/03

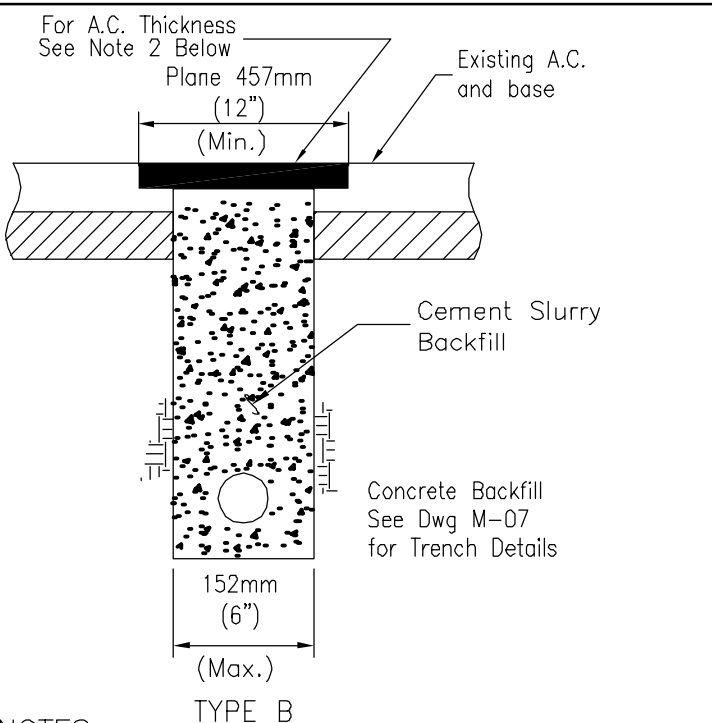
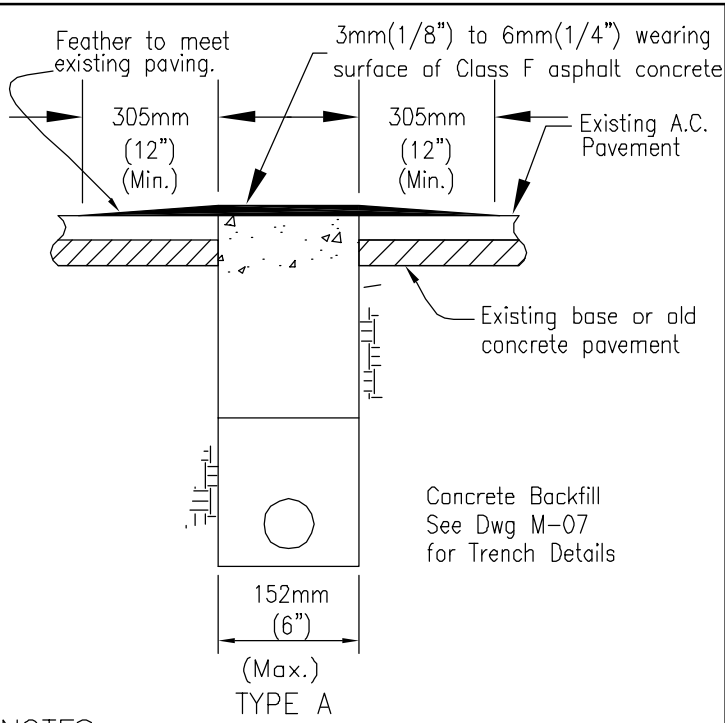
SAN DIEGO REGIONAL STANDARD DRAWING

GENERAL NOTES for CURB RAMPS

RECOMMENDED BY THE SAN DIEGO REGIONAL STANDARDS COMMITTEE

T. Stanton 3/03/03
Chairperson R.C.E. 19246 Date

DRAWING NUMBER **G-32**

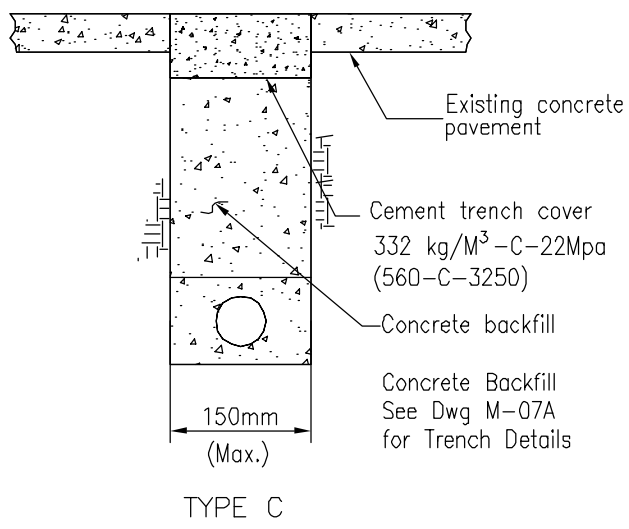


NOTES

1. Concrete shall be screeded off to match pavement grade and floated to assure proper edge match.
2. A tack coat shall be applied to the concrete and existing asphalt pavement prior to placing the new asphalt pavement wearing surface.
3. Existing A.C. pavement will not require saw cutting when using rockwheel for excavation.
4. Allow concrete backfill to cure for seven days prior to paving operation.

NOTES

1. A tack coat shall be applied to the cement slurry backfill and existing asphalt pavement prior to placing the new asphalt surface.
2. Asphaltic Concrete Resurfacing:
 - a. Allow cement slurry backfill seven days minimum to cure before planing.
 - b. Thickness of Asphaltic Concrete shall be a minimum of 51mm (2 inches) or as specified by the Agency's engineer.
 - c. A.C. shall be hot mix.
3. A.C. shall be sealed or chip sealed when required by the Agency's Engineer.



NOTES

1. Concrete shall be screeded off to match existing pavement grade and floated to assure proper edge match.
2. Concrete trench cover shall be a minimum of 140mm (5 1/2 inches) thick in alley or local residential streets and 178mm (7 inches) thick in all other streets.
3. Existing concrete pavement will require sawcutting when using rockwheel for excavation.
4. 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.

Revision	By	Approved	Date
ORIGINAL	HH	T. Stanton	11/02
Add Metric		T. Stanton	03/03

SAN DIEGO REGIONAL STANDARD DRAWING

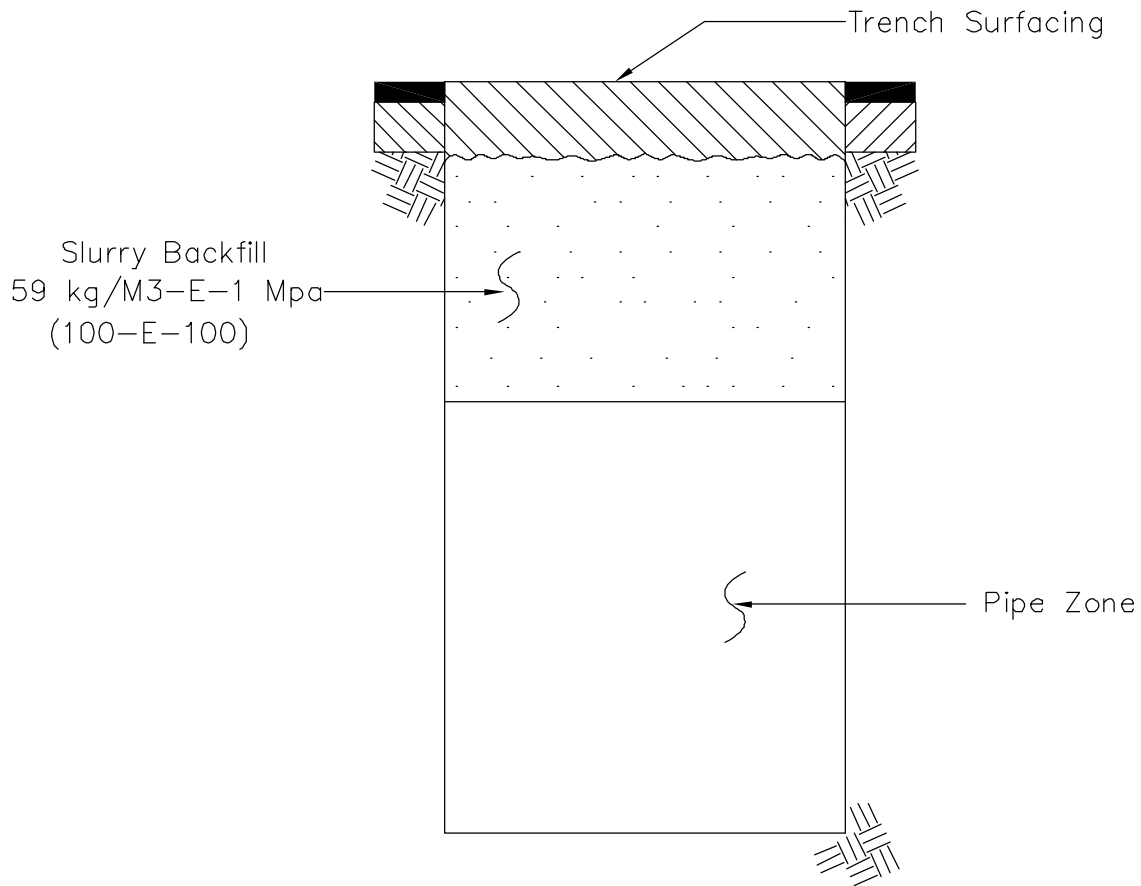
NARROW TRENCHES

TRENCHING & BACKFILLING

RECOMMENDED BY THE SAN DIEGO REGIONAL STANDARDS COMMITTEE

T. Stanton 51018005
Chairperson R.C.E. 19246 Date

DRAWING NUMBER **G-33**



NOTES

1. Trench resurfacing shall be done according to governmental (permitting) agency's requirements.
2. The sand used for the slurry backfill shall meet the requirements for fine aggregate (subsection 400-1.3) listed in the Standard Specifications for Public Works Construction. Slurry must be firm prior to trench resurfacing.
3. Slurry backfill shall not be used where it will impede subsurface drainage.

Revision	By	Approved	Date
ORIGINAL		Parkinson	9/88
Add Metric		T. Stanton	03/03

SAN DIEGO REGIONAL STANDARD DRAWING

SLURRY BACKFILL

RECOMMENDED BY THE SAN DIEGO REGIONAL STANDARDS COMMITTEE

T. Stanton 3/03/03
Chairperson R.C.E. 19246 Date

DRAWING NUMBER **G-36**