



Republic of the Philippines  
DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS  
**OFFICE OF THE SECRETARY**

Manila

JUL 08 2013

DEPARTMENT ORDER )  
No. 62 )  
Series of 2013 04-16-13 )  
X-X-X-X-X-X-X-X-X-X-X- )

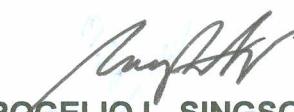
SUBJECT : DPWH STANDARD DESIGN  
DRAWINGS (ROADS)

In line with the mandate of the Department of providing effective standards to be used in the implementation of various infrastructure projects, the attached standard design drawings for roads are hereby prescribed, for the guidance and compliance of all concerned:

1. Concrete Sidewalk
2. Precast Concrete Curb and Gutter
3. Precast Concrete Curb
4. Raised Median Island
5. Auxiliary Lanes for Right and Left Turning Vehicles (Design Speed = 40 kph)

The use of Precast Concrete Curb and Precast Concrete Curb and Gutter shall be mandatory for all road projects. Cast-in-place concrete curb and gutter may still be adopted provided that concrete paver shall be used.

This Order shall take effect immediately.

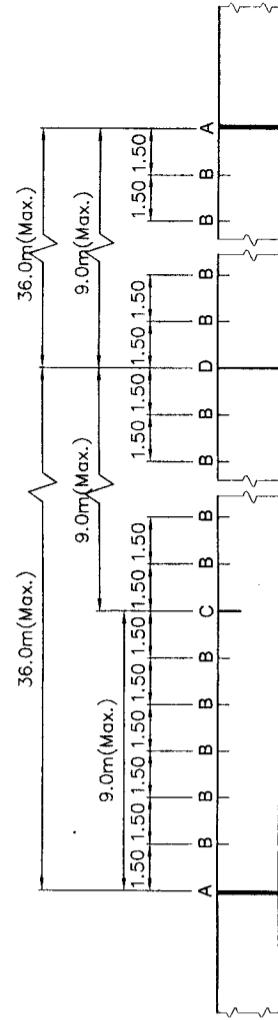
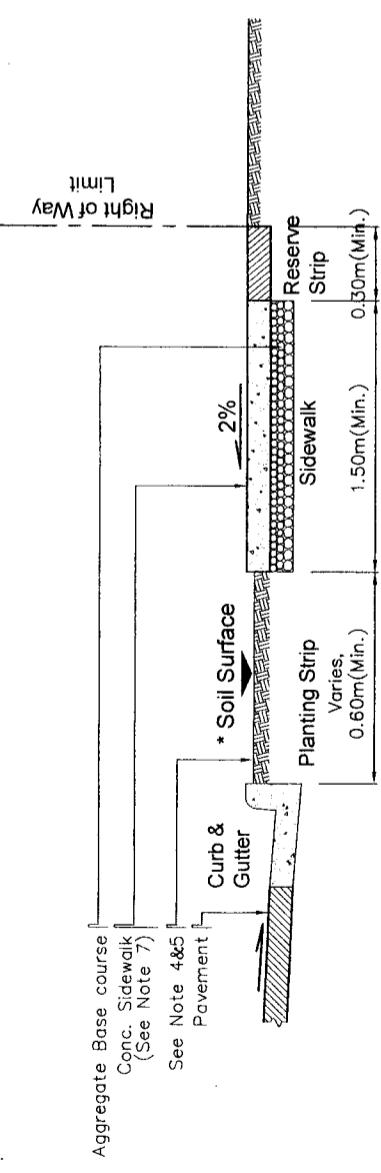


ROGELIO L. SINGSON  
Secretary

Department of Public Works and Highways  
Office of the Secretary

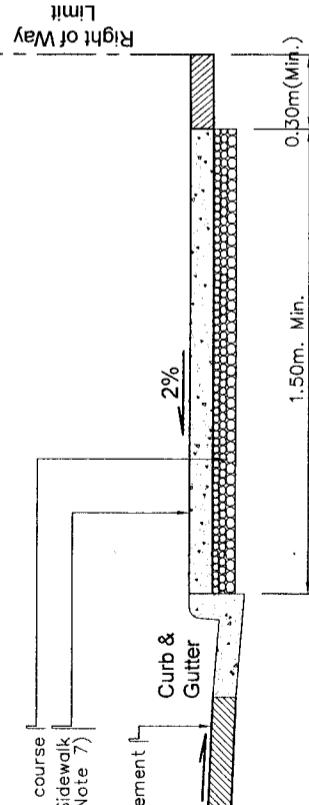


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NOTE :

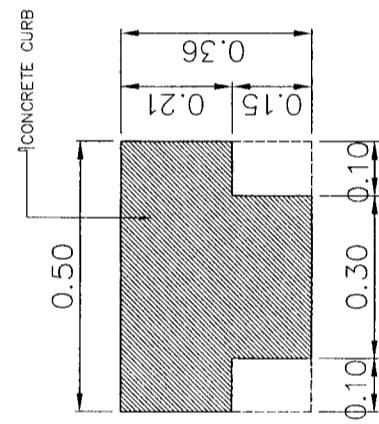
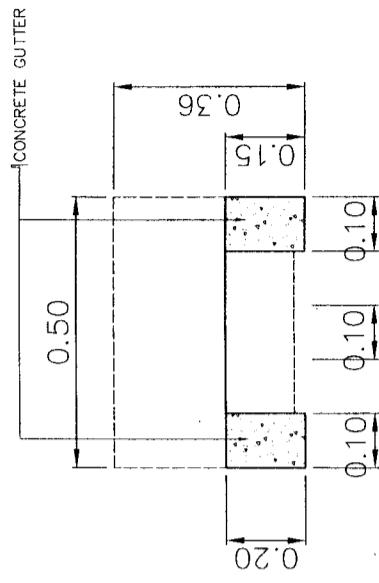
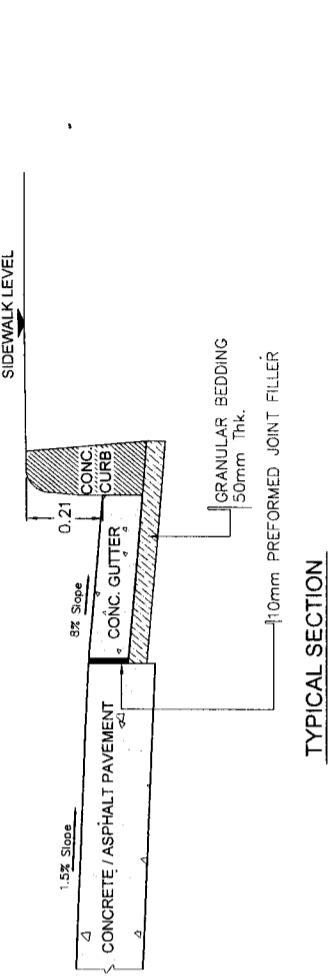
- Materials and construction requirements shall conform to DPWH Standard Specification for Highways and Bridges, 2004.
- Use of Monofilament Polypropylene (D.O. No.95, series of 2005) as additive to Concrete Mix.
- Sidewalk width of 1.50m shall be the minimum pedestrian accessible route free of vertical and horizontal obstructions.
- Drainage covers, junction boxes, cable vaults, pull boxes and other appurtenances within the sidewalk must have slip resistant surface and be flush with surface and match grade of the sidewalk.
- Lawn grass or vegetative ground cover of a type with a maximum growth height of 100mm shall be provided with 100mm thick soil \*. The Soil level surface must be placed at least 50mm below the sidewalk surface.
- In lieu of lawn grass, the following may be considered:
  - Acceptable artificial turf
  - Precast Masonry units laid closely in a uniform pattern (bricks, tile caps).
  - Loose aggregate such as basaltic, coral or limestone chips.
- Full Width Concrete Sidewalk may be permitted when constructed for the entire block.
- Sidewalk shall have a minimum thickness of 150mm if Mountable Curb is used or if Sidewalk is intended as portion of driveway. Otherwise, sidewalk shall have a minimum thickness of 100mm.
- Joint Legend:
  - A - 10mm Expansion Joints ( Full Depth Preformed Joint Filler )
  - B - 5mm Saw Cut Joints, 40mm deep / within 96 Hrs.  
Maximum 1500mm center.
  - C - 5mm Saw Cut Joints, 40mm deep / within 12 Hrs.  
Maximum 9000mm center.
  - D - 10mm Expansion Joint for 36000mm Maximum length of Run of Sidewalk  
( Full Depth Preformed Joint Filler )



NOTE :

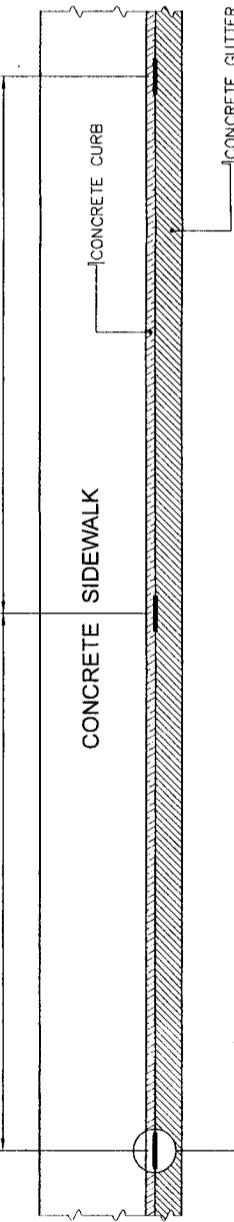
(Curbside Sidewalk - Sidewalk Adjacent to Curb)

DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS BUREAU OF DESIGN HIGHWAYS DIVISION BONIFACIO DRIVE, PORT AREA, MANILA	SHEET TITLE:  CONCRETE SIDEWALK (Cast - In - Place)	SHEET CONTENT :  TYPICAL SECTION JOINT DETAILS NOTES
		SHEET NO. 1 5



**CONCRETE CURB & GUTTER DETAILS**

"\*(SEE NOTE Nos. 4&5)  
" D "



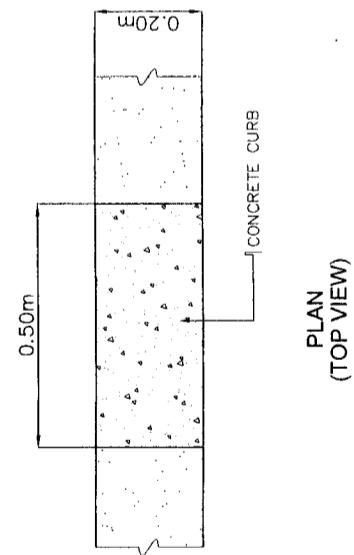
**TYPICAL LAYOUT OF CONCRETE CURB AND GUTTER WITH CURB INLET**

SCALE 1:100

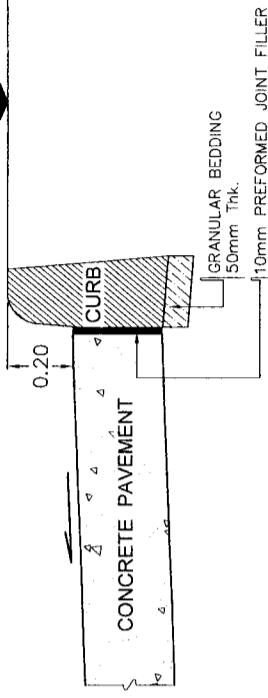
REPUBLIC OF THE PHILIPPINES  
DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS  
BUREAU OF DESIGN  
HIGHWAYS DIVISION  
SONPACIO DRIVE, PORT AREA, MANILA



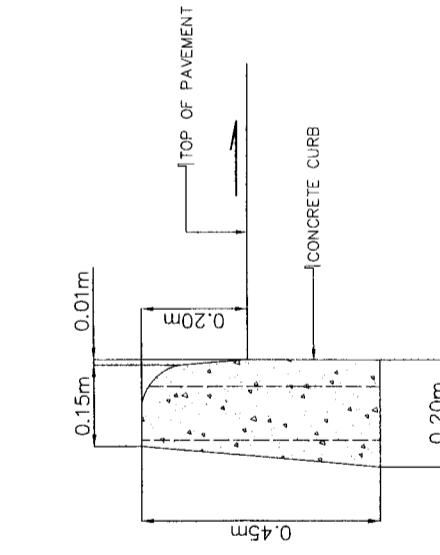
SHEET TITLE:	SHEET CONTENT :	SHEET NO.
PRE - CAST CONCRETE CURB AND GUTTER	ELEVATION (CURE & GUTTER) ISOMETRIC CURB & GUTTER DETAILS TYPICAL SECTION, NOTES TYPICAL LAYOUT OF CONC. CURB & GUTTER WITH CURB INLET	(2) 5



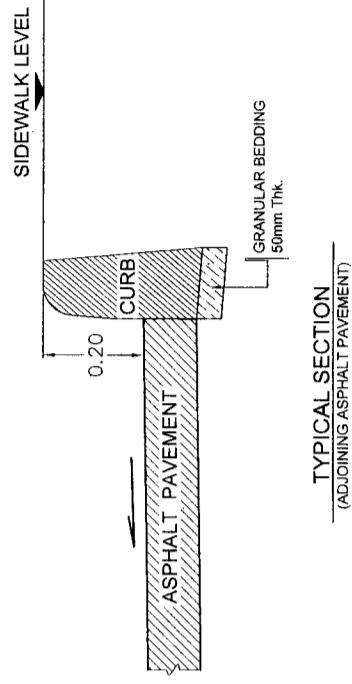
SIDEWALK LEVEL



**TYPICAL SECTION**  
(ADJOINING CONCRETE PAVEMENT)



**CONCRETE CURB DETAIL**

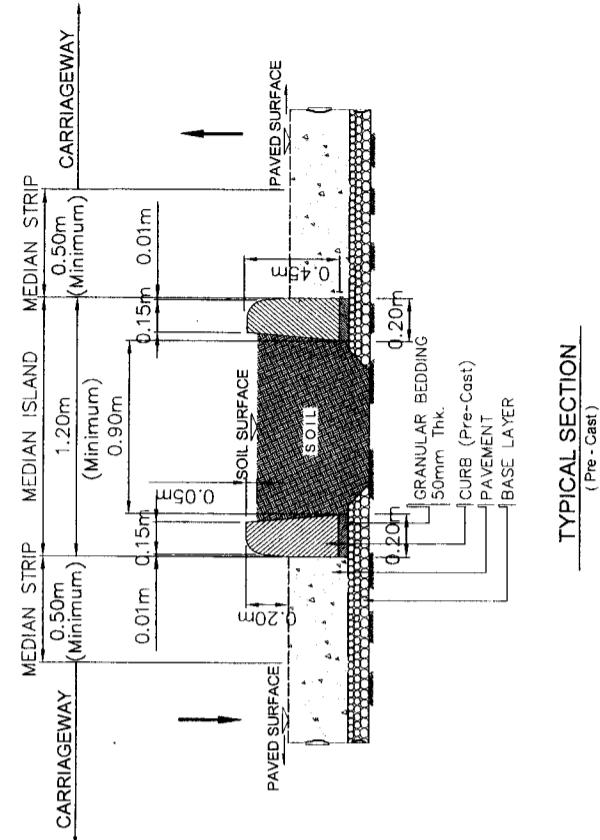
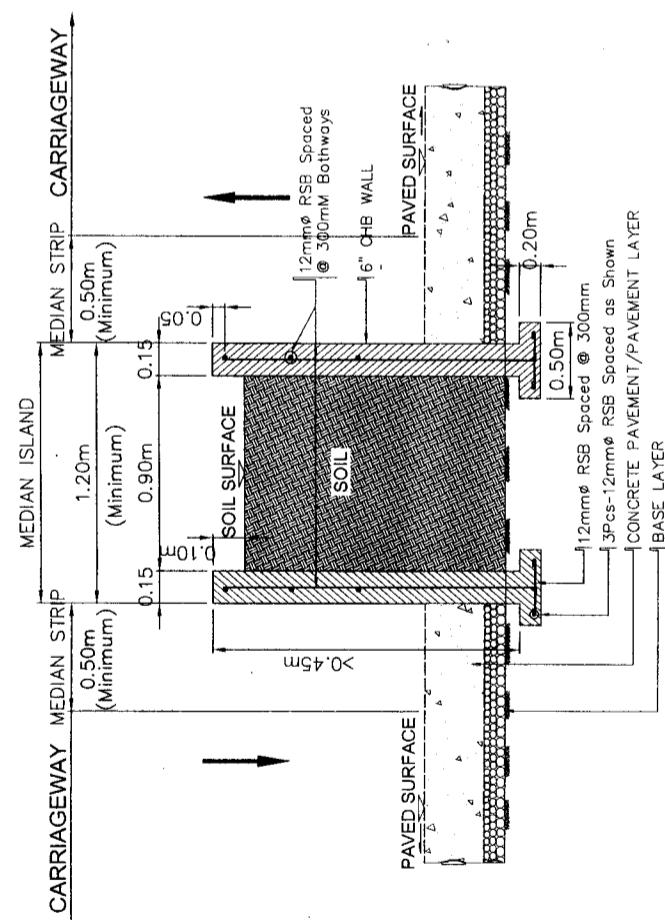


**TYPICAL SECTION**  
(ADJOINING ASPHALT PAVEMENT)

**NOTES**

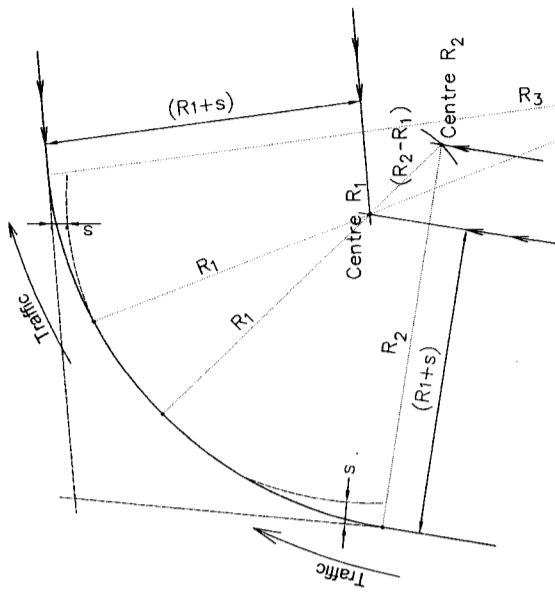
1. MATERIAL AND CONSTRUCTION REQUIREMENTS SHALL CONFORM TO DPWH STANDARD SPECIFICATIONS FOR HIGHWAYS AND BRIDGES 2004.
2. USE OF MONOFILAMENT POLYPROPYLENE SYNTHETIC FIBERS (D.O. 95, SERIES 2005) AS ADDITIVE TO CONCRETE MIX.
3. CONCRETE CURB SHALL BE CONSIDERED IN THE DESIGN OF PAVED ROADS IF THE FUNCTION IS TO SEPARATE THE ROAD FROM THE ROADSIDE, DISCOURAGING DRIVERS FROM PARKING OR DRIVING ON SIDEWALKS AND LAWNS.

<p>SHEET TITLE: PRE-CAST CONCRETE CURB</p>	<p>SHEET NO. 3 5</p>
<p>SHEET CONTENT: PLAN (TOP VIEW) CURB DETAIL TYPICAL SECTION NOTES</p>	



- NOTE :**
1. Planting of Trees should not be permitted on High Speed Multilane Divided Highway.
  2. Surface Level of Soil Fill shall be lower than top of Island.
    - a) 50mm for Island height  $\leq 0.45m$
    - b) 100mm for Island height  $> 0.45m$

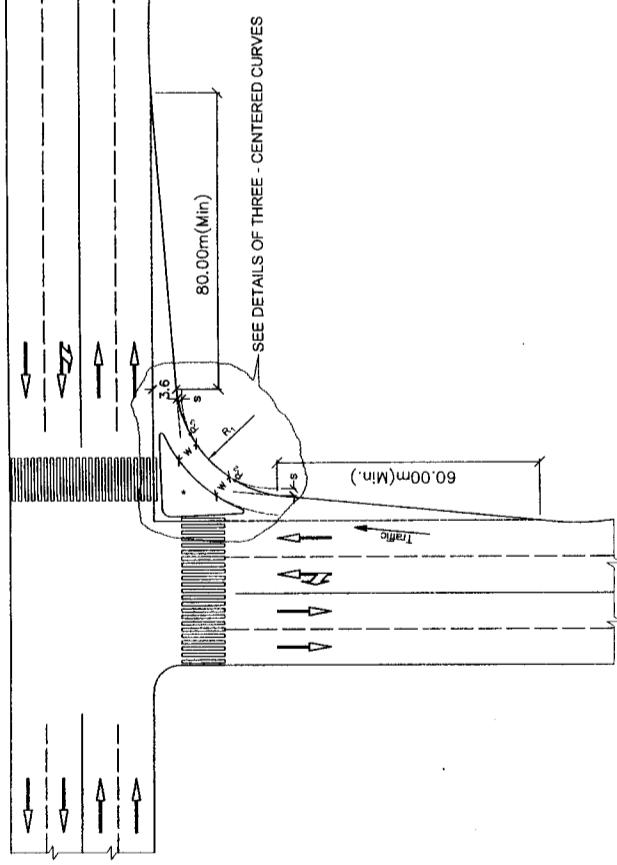
SHEET TITLE:	SHEET CONTENT:	SHEET NO.
RAISED MEDIAN ISLAND	TYPICAL SECTION (CAST - IN - PLACE / PRE - CAST) NOTES	4 5



R<sub>1</sub> = RADIUS OF INTERMEDIATE  
CIRCULAR ARC  
R<sub>2</sub> = RADIUS OF CIRCULAR ARC  
ON APPROACH LEG  
R<sub>3</sub> = RADIUS OF CIRCULAR ARC  
ON DEPARTURE LEG  
S = OFFSET OF INTERMEDIATE CIRCULAR ARC FROM  
TANGENTS OF APPROACH

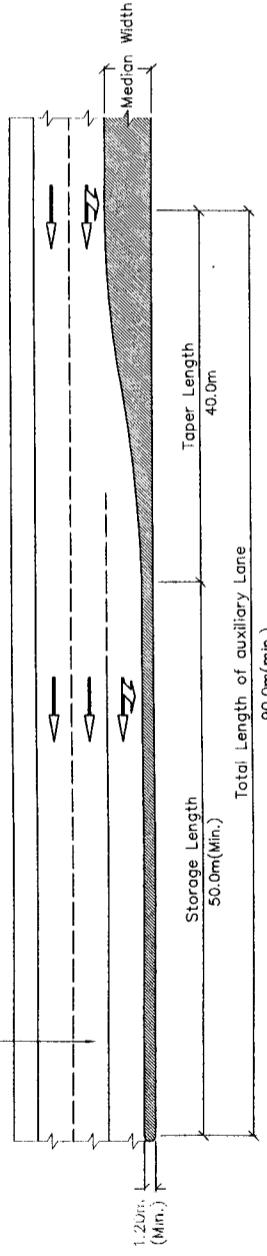
### GEOMETRIC CONSTRUCTION OF THREE - CENTERED CURVES

- NOTE  
1. Provision for passing a stalled vehicle, w = 6.50m.  
for R<sub>1</sub> = 12.0m. and S = 1.50m.  
2. If barrier curbs are used on each side, add 0.30m. for the  
Total Width Requirement.  
3. Where R<sub>1</sub> = 12.00m. to 30.00m, R<sub>2</sub> = 1.50 (R<sub>1</sub>)  
and R<sub>3</sub> = 3 (R<sub>1</sub>.)



### TYPICAL PLAN / LAYOUT ( RIGHT TURNING VEHICLE )

SEPARATOR



### TYPICAL PLAN / LAYOUT ( SINGLE LEFT TURNING VEHICLE )