



Republic of the Philippines
DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS
CENTRAL OFFICE
Manila

097.13 DPWH
09.27.2021

AUG 06 2021

DEPARTMENT ORDER)

SUBJECT: Conceptual Plans for Bridge Aesthetics

NO. **81**)

Series of 2021 **9/27/2021**

In line with the issuance of Department Order No. 49 series of 2018 re: *Inclusion of Bridge Aesthetics in All Bridge Plans*, conceptual plans for bridge aesthetics are hereby recommended to ensure that the values of aesthetics are incorporated in the detailed engineering design stage of bridge projects.

The issuance of these conceptual plans aims to improve the appearance of our bridges by incorporating the aspect of aesthetics and also to give bridges vibrancy and create special effect at night that gives attraction to both natives and tourists. Moreover, these aesthetic concepts are best to be adopted to bridges that are iconic, locally valued, landmarks, historical and located in areas which is highly visible to public for tourist attractions. The plans shall serve as guide for Regional, District Engineering, Project Management Offices as well as Design Consultants in preparation of bridge plans and aesthetic lighting detail for bridges.

The conceptual plans consist of two (2) sets, covering the intent and considerations of design, and material specifications, as follows:

- Set 1 - Plan for Standard Bridges Considering Bridge Aesthetics
(BOD Set No. 2019-8 Brd)
 - Bridge Proportioning
 - Recommended Pier Design
- Set 2 - Concept of Aesthetic Lighting for Girder Type Bridges
(BOD Set No. 2020-10 Brd)

The aforementioned plan may be downloaded from the DPWH Intranet (<http://dpwhnet>) under Bureau of Design - Engineering Plans. References for these conceptual plans are likewise attached as "ANNEX A".

MARK A. VILLAR
Secretary

Department of Public Works and Highways
Office of the Secretary



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A. PLAN FOR STANDARD BRIDGES CONSIDERING BRIDGE AESTHETICS (BOD SET NO.2019-8 BRD)

A.1. References

Plan	Reference	Chapter/Page. No.
Bridge Proportioning	Bridge Aesthetic Guidelines – D.O. 49, Series of 2018	Chapter 2 / Page 6-7
		Chapter 3 / Page 26-31
Recommended Pier Design		Chapter 3 / Page 26-31

A.2. Suggested Location/Setting of Eight (8) Recommended Pier Design

Pier Design No.	Location/Setting
Pier 1	Rural or Urbanized Areas
Pier 2	Urbanized Areas
Pier 3	Urbanized Areas
Pier 4	Rural or Urbanized Areas
Pier 5	Historical Areas (Neoclassical)
Pier 6	Rural or Urbanized Areas
Pier 7	Highly Urbanized Areas
Pier 8	Highly Urbanized Areas

B. CONCEPT OF AESTHETIC LIGHTING FOR GIRDER TYPE BRIDGES (BOD SET NO.2020-10 BRD)

B.1. Suggested Location/Setting of Seven (7) Conceptual Lighting

Lighting Concept	Location/Setting
All White - Flood Lighting	Urban or Rural Bridges Spanning Waterways, Valley, Roads & Railways
Flood Lighting with Two Contrasting Colors	Urban or Rural Bridges Spanning Waterways, Valley & Roads, but not over Railways and Navigable Rivers
Continuous Wash of Girder	Urban or Rural Bridges Spanning Waterways, Valley & Roads, but not over Railways and Navigable Rivers
Continuous Wash of Girder in ROYGBIV Pattern	Urban or Rural Bridges Spanning Waterways, Valley & Roads, but not over Railways and Navigable Rivers

Delineation of Bridge Shape	Urban or Rural Bridges Spanning Waterways, Valley, but not over Roads, Railways and Navigable Rivers
Partial Wash Of Girder and Pier	Urban or Rural Bridges Spanning Waterways, Valley, Roads & Railways
Pier Grazing	Urban Or Rural Bridges Spanning Waterways, Valley, Roads & Railways

B.2. Additional Notes:

- a. The plan shall be adopted to bridges that are iconic, locally valued, historical, and located in areas with high volume of tourist.
- b. Other guidelines not stated in this Department Order are indicated under "General Notes" of the plans.