G - Ports, Waterways

G.4 Locks, Barrages, Exceptional Navigational Structures

G.4.9 Opening Barrage (C)

An opening gate used to control and protect against flood water or to regulate the water level.

Graphics	Encoding Instructions	Object Encoding
Real World (Aerial View)	 A) For non-navigable parts of a flood barrage use DAMCON, for parts of a barrier/ flood barrage that are navigable at certain water levels use GATCON or gatcon (see instruction D) B) DAMCON area objects have to be placed on a LNDARE object. C) Linear GATCON features should follow the edge of a DEPARE object. Area GATCON features have to be placed on a depth area. D) Encode attribute 'verdat' only if vertical datum differs: from DSPM VDAT subfield and from Meta object 'm_vdat' attribute and specific for inland navigation or in case of a lifting barrage gate that restricts the air draught. E) VERCLR has to be encoded in case of a lifting barrage gate or gateframe that restricts the air draught of passing vessels. F) A bridge over a barrier/ flood barrage needs to be encoded separately with a bridge object (see G.1) G) 'wtwdis' and 'hunits' shall be encoded if the attribute VERCLR is used. H) All objects of one Opening Barrage must be combined to one aggregation area (C_AGGR), e.g. notice marks two way route parts communication area fenders ice breakers vertical clearance indicators signal stations radio call-in points 	Object Encoding Object Class = DAMCON(L,A) (M) CATDAM = [3 (flood barrage)] (O) NATCON = [1 (masonry), 2 (concreted), 3 (loose boulders), 4 (hard surfaced), 5 (unsurfaced), 6 (wooden), 7 (metal), 8 (glass reinforced plastic (GRP))] (O) CONDTN = [1 (under construction), 2 (ruined), 3 (under reclamation), 5 (planned construction)] (M) SCAMIN = [EU: 90000; US: 45000] (C) SORDAT = [YYYYMMDD] (C) SORIND = (Refer to Section B, General Guidance) Object Class = GATCON(L,A) (M) CATGAT = [2 (flood barrage gate)] (M) HORCLR = [xx.x] (metres), e.g., 34.2 (C) VERCLR = [xx.x] (metres) (Refer to letter E) (O) OBJNAM = [Name] (O) NOBJNM = (Refer to Section B, General Guidance) (O) CONDTN = [1 (under construction), 2 (ruined), 3 (under reclamation), 5 (planned construction)] (M) SCAMIN = [90000] (C) SORIDT = [1 (under construction), 2 (ruined), 3 (under reclamation), 5 (planned construction)] (M) SCAMIN = [90000] (C) SORIDT = [1 (under construction), 2 (ruined), 3 (under reclamation), 5 (planned construction)] (M) SCAMIN = [90000] (C) SORIDT = [2 (flood barrage gate)] (M) CATGAT = [2 (flood barrage gate)] (M) HORCLR = [xx.x] (metres), e.g., 34.2 (C) VERCLR = [xx.x] (metres), (Refer to letter E) (O

 more detailed communication information is available, the reference to the file has to be entered in the TXTDSC attribute. Opening barrages shall be encoded if they are located in navigable water. 	height of water according to Danube Commission), 38 (Dutch river low water reference level (OLR)), 39 (Russian project water level), 40 (Russian normal backwater level), 41 (Ohio River Datum)] (C) wtwdis = (Refer to letter G) (C) hunits = (Refer to letter G)
 J) If a structured external XML-file w more detailed communication information is available, the reference to the file has to be entered in the TXTDSC attribute. K) Opening barrages shall be encode if they are located in navigable 	 (Reference low water level according to Danube Commission), 37 (Highest shipping height of water according to Danube Commission), 38 (Dutch river low water reference level (OLR)), 39 (Russian project water level), 40 (Russian normal backwater level), 41 (Ohio River Datum)] (C) wtwdis = (Refer to letter G) (C) hunits = (Refer to letter G)