G - Ports, Waterways

G.1 Bridges, Tunnels, Overhead Obstructions

G.1.7 Tunnel (C)

A passage that is open to the atmosphere at both ends, buried under the sea bed or laid over the sea floor or bored under the ground or through mountains. (S-57 Standard)

Graphics	Encoding Instructions	Object Encoding
Real World Chart Symbol Image: symbol	 A) If there is a waterway navigable at compilation scale, inside the tunnel, this waterway is encoded as a navigable canal with DEPARE or DRGARE. There is no LNDARE in the area covering the tunnel. B) If there is a waterway which is not navigable at compilation scale, inside the tunnel, this waterway is encoded as a CANALS. The LNDARE covers the tunnel. The attributes HORCLR and VERCLR are not encoded. C) If there is no waterway in the tunnel (but a railway, a road) only the TUNNEL should be encoded (not the railway or the road), covered by a LNDARE, DEPARE or DRGARE as appropriate. The attributes HORCLR and VERCLR are not encoded. D) If a structured external XML-file with more detailed communication information is available, the reference to the file has to be entered in the TXTDSC attribute. E) If the navigable tunnel has a special time schedule or special operating hours apply, the object can be combined with a time schedule. For this purpose please refer to the time schedule (general) object 'tisdge' see T.1.1 F) TUNNEL shall be encoded if: anchoring is prohibited over the tunnel or the tunnel is navigable i.,e. has a DEPARE or DRGARE G) All objects of a tunnel which belong to one tunnel must be combined to one aggregation area (C_AGGR), if a navigable waterway passes through the tunnel, e.g. notice marks communication area 	Object Encoding Object Class = TUNNEL(L,A) (O) BURDEP = [xx.x] (metres), e.g., 2.5 (C) HORCLR = [xx.x] (metres), e.g., 34.2 (C) VERCLR = [xx.x] (metres), e.g., 13.27 (O) OBJNAM = [name and/or operator/owner] (O) NOBJNM = [name and/or operator/owner] (O) NOBJNM = (Refer to Section B, General Guidance) (O) TXTDSC = (Refer to letter D) (O) CONDTN = [1 (under construction), 2 (ruined), 3 (under reclamation), 5 (planned construction)] (M) SCAMIN = [EU: 22000; US: 45000] (C) SORDAT = [YYYYMMDD] (C) SORIND = (Refer to Section B, General Guidance) Object Encoding Object Class = C_AGGR() (M) OBJNAM = [name and/or operator/owner] (O) NOBJNM = (Refer to Section B, General Guidance) (O) TXTDSC = (Refer to letter D) (C) unlocd = [ISRS code] (C) SORIND = (Refer to Section B, General Guidance) (O) TXTDSC = (Refer to Section B, General Guidance) (O) TXTDSC = (Refer to Section B, General Guidance)

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