"Delivering Military Advantage through multi-national geospatial interoperability"

DGIWG Technical Report

Cross-reference between STANAG 3675 and DGIWG Symbol Database/Register

Symbols for use on hardcopy maps and charts

Edition: 1.0.0
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Responsible Party:	Defence Geospatial Information Working Group (DGIWG)
Audience:	DGIWG participants and associates
Abstract:	Related to the retirement of STANAG 3675 – 'Symbols on Land Maps, Aeronautical and Special Naval Charts'. The aim being not to lose any relevant symbology once STANAG 3675 is retired, and to ensure that this symbology is added to the DGIWG Symbol Database.
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i.   Executive Summary

This Report includes an assessment of the symbols used for military geospatial products as defined in the existing STANAG 3675 Ed. 2 from 1999. The Report first compares the direction in STANAG 3675 Ed. 2 with the current DGIWG Symbols Database/Register (SD/R) which is used in DGIWG product specifications and standards. Annex A of the Report includes an assessment of all symbols in STANAG 3675 Ed. 2 and identifies whether or not an equivalent symbol exists in the current DGIWG SD/R. The Report will suggest that the direction and symbols in STANAG 3675 Ed. 2 are no longer adequate and encourages a shift towards the symbology in the DGIWG SD/R for fixed scale military geospatial products in order to achieve better consistency and interoperability.

ii.   Contributing participants:

Nation	Parent organization
Czech Republic	Geographic Service of the Armed Forces of the Czech Republic, Office of Military Geography and Hydrometeorology
United States	Army Geospatial Centre
United Kingdom	Geospatial Portrayal Standards, UK Strategic Command

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All questions regarding this document shall be directed to the secretariat@dgiwg.org

NOTE: All personal information will be removed when an internal document is made public. This includes names and personal e-mail accounts.

iv. Revision history

Date	Edition number	Primary clauses modified	Description

v. Future work

No future work is expected in this project.

1   Introduction

NATO has tasked the DGIWG to develop a set of military land and aeronautical geospatial products at set scales. This includes defining the set of symbols that are used for content display on those products.

The set of symbols defined in these product specifications may not align with those that have been previously used in existing standards such as STANAG 3675. STANAG 3675 Ed. 2 was drafted 13 December 1999 and is no longer an accurate reflection of current requirements.

Therefore, an assessment was required in order to validate the symbols defined in STANAG 3675 Ed. 2 with the symbols currently used in DGIWG product specifications. This is to ensure that common symbology is used within NATO, and by NATO Nations, under the NATO Geospatial Information Framework (NGIF) umbrella of standards.

An absence of a common set of symbols for use on hardcopy products could lead to the misunderstanding or misinterpretation of content, and also to an inability for nations to effectively operate together in a multinational environment.

2   Scope

This Report provides a cross-reference comparison between symbols in STANAG 3675 Ed. 2 and in the DGIWG Symbol Database/Register (SD/R).

The body of this Report describes the methodology and elements found within Annex A: Tech Report - STANAG 3675 to DGIWG Portrayal.

Annex A of this Report provides a gap analysis of deviations between symbols listed in STANAG 3675 Ed. 2 and those registered in the SD/R. The SD/R currently serves as the tool for managing symbology for products under DGIWG responsibility. It defines and documents existing common sets of symbols that are utilised to display feature content on hardcopy maps as well as on digital products using a visualisation of vector data in dynamic scale and provided via web services.

This Report is intended to:

1) Provide common symbology, and the understanding that goes with it.

2) Promote symbol reuse.

3) Provide reference for symbology which reflects current requirements, and replaces antiquated NATO references.

3   References

NATO Standards

STANAG 3675 Ed. 2 - Symbols on Land Maps, Aeronautical and Special Naval Charts (2001)

DGIWG Standards

DGIWG 130, Web Symbology

DGIWG 131, Printing Colours for Defence Geospatial Products

DGIWG 252, Data Product Specification (DPS) for Defence Topographic Map 1:50,000

DGIWG 256, Data Product Specification (DPS) for Defence City Map, in work

DGIWG 258, Data Product Specification (DPS) for Defence Joint Operations Graphic Air, in work

Other Standards

IHO S-4   Associated Document, INT 1 Symbols and Abbreviations used on Paper Charts (current English version, Edition 8, 2020)

IHO S–101 ENC Product Specification (Edition 1.1.0, April 2023)

4   Terms, Definitions, and Abbreviations

The following abbreviations are used in the document:

AML	Additional Military Layers
DGIWG	Defence Geospatial Information Working Group
DPS	Data Product Specification
ENC	Electronic Navigational Chart
GAWG	Geospatial Aeronautical Working Group

GMWG   Geospatial Maritime Working Group
ICAO   International Civil Aviation Organization
IHO   International Hydrographic Organization
JGSWG   Joint Geospatial Standardization Working Group
PO   Product Object
PTP   DGIWG Portrayal Technical Panel
SD/R   DGIWG Symbol Database/Register
SO   Symbol Object
STANAG   Standardization Agreement

5   Applicability and Use

This document can be used as a source material for a final decision by NATO about the future of STANAG 3675.

6   Methodology

6.1 STANAG 3675

The aim of STANAG 3675 Ed. 2 since it was established in 2001 has been to standardise the basic symbols used on military topographic land maps, aeronautical charts, and special naval charts.

Annex A of STANAG 3675 Ed. 2 provides a list of symbols which are recommended for use to symbolise specific features. It includes a series of thematically grouped tables with four columns entitled: Number, Description, Symbol, and Remarks. The columns have varying levels of detail and types of information.

HYDROGRAPHY

No.	DESCRIPTION	SYMBOL	REMARKS
101	OPEN WATER (INCLUDES INLAND)		Applicable to all scales. Use with symbol 102.

The direction and basic characteristics for each symbol in STANAG 3675 Ed. 2 includes:

- Provides a general framework for all hardcopy military maps and charts under land, aeronautical and nautical domains.
- Identifies appropriate scale ranges from 1:25,000 – 1:2,000,000. The usage of specific symbols in terms of scale is specified in the column "Remarks".
- Only general shape and appearance is shown.
- No concrete symbol dimensions are identified. The size, width of line or length of dashes are not included.
- Preferred colours are not specified in detail by any numeric values in colour models, only by general names – Black, Cyan, Brown, Green, etc.
- Usage of a symbol for specific feature types is captured.

6.2 DGIWG Symbol Database/Register (SD/R)

The DGIWG Symbol Database/Register (SD/R) documents and defines symbols and symbol sets which have been identified as appropriate for current DGIWG identified products, and their specifications far (see references in 3.2). These include:

- Web symbology, various scales
- Defence Topographic Map 1:50,000 scale
- Defence City Map 1:10,000 scale
- Defence Joint Operation Graphic (Air) 1:250,000 scale

Moreover, some additional symbols from other sources have been added into the SD/R in connection with the work carried out under this project. This mainly includes aeronautical symbology, where several symbols can represent one feature, as described in Chapter 6.4.

The SD/R contains comprehensive information about Symbol Objects (SO/SOs) and their components and also provides their relationships to other components and objects (e.g. colour, label, font, etc). The relationship between SOs and Product Objects (POs) specifies its usage in a product.

When compared with the STANAG 3675 Ed. 2 symbology, the main characteristics of the SD/R includes:

- More structured and registry-based construct that supports efficient implementation of data product specifications (DPSs) with digitally encoded symbols and drawing rules.
- More specifically product orientated.
- The shape and appearance of symbols is described in detail.
- SOs have their dimensions specified.
- The composition of symbols is specified. Each symbol is composed from point, line, area and colour components.
- Each SO is linked with a specific PO.
- The concept of SOs, and other related objects (label, font, etc), has been implemented.

6.3 Mapping between these two concepts

The DGIWG Portrayal Technical Panel (PTP) made a study comparing the characteristics of symbols in STANAG 3675 Ed. 2 and the current DGIWG SD/R. The result of the comparison is shown in Annex A. For each symbol within STANAG 3675 Ed. 2, one of these actions was taken:

- **Retained as**: a symbol from STANAG 3675 Ed. 2 is still required and has an equivalent (i.e. the same appearance) in the SD/R represented by one or more SOs.
- **Replaced by**: a symbol from STANAG 3675 Ed. 2 will not be used in future, though its replacement is represented by one or more SOs from the SD/R.
- **Retained as label**: the label associated was retained.
- **Replaced by label:** the symbol has been replaced by a label not used in the current edition.
- **Not used**: a symbol from STANAG 3675 Ed. 2 will not be used in future. Furthermore, it is not currently necessary to replace it with a new symbol.

6.4   Cooperation between working groups

Other authorities, and NATO working groups, were consulted regarding the symbol comparisons, including JGSWG, GAWG (for aeronautical symbology), and GMWG (for maritime symbology).

6.4.1   Geospatial Aeronautical Working Group (GAWG)

The GAWG studied the STANAG 3675 Ed. 2 content, focusing on the symbology associated with the aeronautical domain. One of the most important conclusions from their assessment was that several symbols for one feature type (e.g. Vertical Obstructions) have been included in the SD/R for a later application. In this case, symbols were recruited from both the International Civil Aviation Organization (ICAO) symbol set, and from national production.

6.4.2   Geospatial Maritime Working Group (GMWG)

The GMWG has completed a review of the contents of STANAG 3675 Ed. 2 against existing maritime symbology standards (e.g. IHO S-4, IHO S-52, AML). The review identified a number of gaps where STANAG 3675 Ed. 2, in its current form, does not fully reflect symbology used (for hardcopy or digital products) in the maritime domain.

The International Hydrographic Organization (IHO) manages and maintains an authoritative set of maritime symbols, line styles, colours etc within the Portrayal Register of the IHO hosted Geospatial Information Registry. Noting this established register, the GMWG has recommended that maritime symbology standards should be referenced by DGIWG in the development of the SD/R but not duplicated in both registers.

DGIWG and GMWG representatives conducted an initial review to identify symbols used within DGIWG and IHO. This report notes symbols that relate to DGIWG products and those captured within the IHO Portrayal Register or referenced in other maritime symbology standards (e.g. INT1 - symbols and abbreviations used on Paper Charts). This highlights where differences in portrayal exist between domains for the same concept and provides the user a reference to the authoritative maritime symbology standard.

However, to conduct a more comprehensive review would require establishing a liaison channel between the PTP and the GMWG which is out of scope of this project, and would be subject to new requirements submitted to DGIWG.

Annex A

Technical Report

This Technical Report is comprised of individual records for each uniquely identified symbolized feature from STANAG 3675 Ed. 2. Each record is divided into three sections, as shown in Figure A-1. The first section, entitled *STANAG 3675 Feature Types and Portrayal*, covers the left half of each record and includes a summary of information extracted from the STANAG 3675 Ed. 2 itself. The second section, entitled *Related DGIWG Portrayal Elements*, is positioned in the upper right section of each record and contains related symbols and portrayal content that is currently included in the SD/R. The lower right section, entitled *Related DGIF Elements*, includes related DGIF elements. Note that the mapping to the related DGIF elements/POs is not complete as some symbols are still being assigned to DGIF Elements.

Figure A-1 Composition of one record of the Technical Report

Table A-1 Description of the record sections
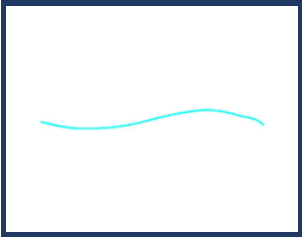
Label	Element Type	Element Description (database field names in bold)
a.	**Section Heading**	**STANAG 3675 Feature Types and Portrayal**
b.	ID	Extension of the original STANAG 3675 Ed. 2 table section numbers that provides a unique identifier used for mapping between the original feature types and graphics/symbols from STANAG 3675 Ed. 2.
c.	Description	Feature type name from STANAG 3675 Ed. 2 to be symbolised.
d.	Sub-description	Feature subtype name from STANAG 3675 Ed. 2 to be symbolised.
e.	Symbol Graphic	Symbol graphics were clipped from the original document for reference within the gap analysis / comparison, the quality of the graphics is degraded.
f.	Remarks and Notes	Condensed original information from the remarks section of STANAG 3675 Ed. 2, including scale applicability and remarks and notes.
g.	Thematic Group	Thematic group table heading from STANAG 3675 Ed. 2.
h.	**Section Heading**	**Related DGIWG Portrayal Elements**
i.	Action	Indicates what action was taken (i.e. Retained as/Replace by).

j.	Symbol Object ID(s) (SO_ID)	Identification number of the Symbol Object used to represent the original symbol within STANAG 3675 Ed. 2.
k.	Symbol Joins	Defines how more than one symbol applies to the original symbol being portrayed.
l.	Symbol Graphics	Symbol Graphics from the SD/R.
m.	Note	Notes to clarify how STANAG concepts are covered with DGIWG Registered symbol content. This section also includes additional related SO_IDs (if more than three are needed).
n.	IHO Related Artifacts	IHO related standards or registers.
o.	**Section Heading**	**Related DGIF Elements**
p.	Product Object	Identification number of the PO (PO_ID) the SO is applied to and camel case name that describes a detailed feature concept, with its associated geometry indicated by the last character (PO_AlphaCode).
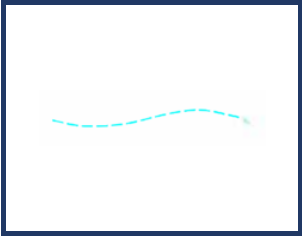
Tech Report: STANAG 3675 to DGIWG Portrayal

STANAG 3675 Feature Types and Portrayal	Related DGIWG Portrayal Elements

101   HYDROGRAPHY

OPEN WATER

Scale Applicability Info:
   Applicable to all scales.

Remarks and Notes:
   Use with symbol 102.

retained as

   SO_0349

STANAG 3675 Feature Types and Portrayal	Related DGIWG Portrayal Elements

102a   HYDROGRAPHY

SHORELINE (INLAND AND COASTAL)
   Definite

Scale Applicability Info:
   Applicable to all scales.

retained as

   SO_0247

Related DGIF Elements

PO_2497   ShorelineL

Tech Report: STANAG 3675 to DGIWG Portrayal

STANAG 3675 Feature Types and Portrayal	Related DGIWG Portrayal Elements

102b   HYDROGRAPHY

SHORELINE (INLAND AND COASTAL)
Indefinite

retained as

   SO_0284

Scale Applicability Info:
   Applicable to all scales.

Label Info:
   Label as necessary for clarity.

STANAG 3675 Feature Types and Portrayal	Related DGIWG Portrayal Elements

103a1   HYDROGRAPHY

LAKE / POND
Perennial

retained as

   SO_0278

Scale Applicability Info:
   Applicable to all scales.

Related DGIF Elements

PO_1537   LakePerennialA

Remarks and Notes:
   Descriptive notes are added to denote characteristic appearance
   of alkaline or brackish conditions.

Tech Report: STANAG 3675 to DGIWG Portrayal

STANAG 3675 Feature Types and Portrayal	Related DGIWG Portrayal Elements

103a2   HYDROGRAPHY

LAKE / POND
   Perennial

replaced by label

Scale Applicability Info:
  Applicable to all scales.

Label Info:
  Label for clarity (Numerous small lakes).

Remarks and Notes:
  Descriptive notes are added to denote characteristic appearance of alkaline or brackish conditions.

STANAG 3675 Feature Types and Portrayal	Related DGIWG Portrayal Elements

103b   HYDROGRAPHY

LAKE / POND
  Non-Perennial (intermittent)

replaced by

    SO_0302

Scale Applicability Info:
  Applicable to all scales.

Related DGIF Elements

PO_1535   LakeIntermittentA

Remarks and Notes:
  Descriptive notes are added to denote characteristic appearance of alkaline or brackish conditions.
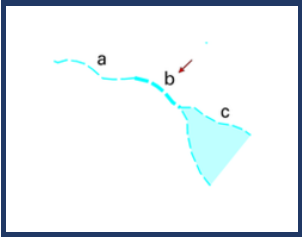

Tech Report: STANAG 3675 to DGIWG Portrayal

STANAG 3675 Feature Types and Portrayal	Related DGIWG Portrayal Elements

103c   HYDROGRAPHY

LAKE / POND

Dry In arid area

Scale Applicability Info:

Applicable to all scales.

Remarks and Notes:

Descriptive notes are added to denote characteristic appearance of alkaline or brackish conditions.

not used

STANAG 3675 Feature Types and Portrayal	Related DGIWG Portrayal Elements

103d   HYDROGRAPHY

LAKE / POND

Dry In non-arid area
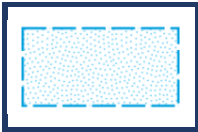
Scale Applicability Info:

Applicable to all scales.

Label Info:

Number in parenthesis is water depth and is optional.

Remarks and Notes:

Descriptive notes are added to denote characteristic appearance of alkaline or brackish conditions.

retained as

SO_0302

Related DGIF Elements

PO_1534   LakeDryA

Tech Report: STANAG 3675 to DGIWG Portrayal

STANAG 3675 Feature Types and Portrayal	Related DGIWG Portrayal Elements

103e   HYDROGRAPHY

LAKE / POND

Water surface elevation and water depth

retained as

SO_0278

Scale Applicability Info:

Applicable to all scales.

Label Info:

Number in parenthesis is water depth and is optional.

Remarks and Notes:

Descriptive notes are added to denote characteristic appearance of alkaline or brackish conditions.

Related DGIF Elements

PO_1379   SpotElevationWaterP

STANAG 3675 Feature Types and Portrayal	Related DGIWG Portrayal Elements

104a   HYDROGRAPHY

RESERVOIR

Natural shoreline

retained as

SO_0278
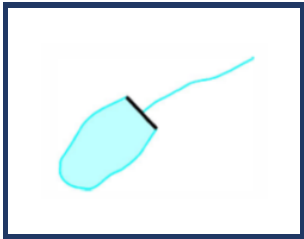
Scale Applicability Info:

Applicable to all scales.

Remarks and Notes:

Applicable to all scales.

Related DGIF Elements

PO_1542   ReservoirA

Tech Report: STANAG 3675 to DGIWG Portrayal

STANAG 3675 Feature Types and Portrayal	Related DGIWG Portrayal Elements

104b   HYDROGRAPHY

RESERVOIR
  Manmade shoreline to scale

replaced by

   SO_0288

Scale Applicability Info:
  Applicable to all scales.

Label Info:
  Label as necessary for clarity.

Remarks and Notes:
  Use symbol 902 for 1 :500,000 scale and smaller when unable to draw to scale.

Related DGIF Elements

PO_1542   ReservoirA

STANAG 3675 Feature Types and Portrayal	Related DGIWG Portrayal Elements

105a1a   HYDROGRAPHY

RIVER / STREAM
  Perennial

retained as

   SO_0247

Scale Applicability Info:
  Applicable to 1:250,000 scale and larger (not mandatory).
  Applicable to 1:250,000 scale and smaller (may be used for all scales).

Label Info:
  If feature is indefinite or unsurveyed then label appropriately.

Remarks and Notes:
  less than .00036m X map/chart scale

Related DGIF Elements

PO_1575   InlandWatercourseRiverPerennialL

Tech Report: STANAG 3675 to DGIWG Portrayal

STANAG 3675 Feature Types and Portrayal	Related DGIWG Portrayal Elements

105a1b   HYDROGRAPHY

RIVER / STREAM
  Perennial

retained as

  SO_0247

Scale Applicability Info:
  Applicable to 1:250,000 scale and larger (not mandatory).

Label Info:
  If feature is indefinite or unsurveyed then label appropriately.

Remarks and Notes:
  .00036m to .0005m X map/chart scale

Related DGIF Elements

PO_1575   InlandWatercourseRiverPerennialL

STANAG 3675 Feature Types and Portrayal	Related DGIWG Portrayal Elements

105a1c   HYDROGRAPHY

RIVER / STREAM
  Perennial
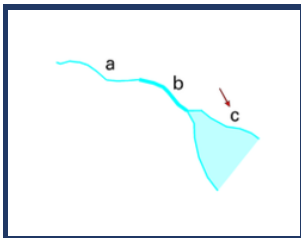
retained as

  SO_0278

Scale Applicability Info:
  Applicable to 1:250,000 scale and larger (not mandatory).
  Applicable to 1:250,000 scale and smaller (may be used for all scales).

Label Info:
  If feature is indefinite or unsurveyed then label appropriately.

Remarks and Notes:
  greater than .0005m X map/chart scale

Related DGIF Elements

PO_1566   RiverA

Tech Report: STANAG 3675 to DGIWG Portrayal

STANAG 3675 Feature Types and Portrayal	Related DGIWG Portrayal Elements

105b2a   HYDROGRAPHY

RIVER / STREAM
  Non-Perennial (intermittent)

retained as

    SO_0284

Scale Applicability Info:
  Applicable to 1:250,000 scale and larger (not mandatory).
  Applicable to 1:250,000 scale and smaller (may be used for all scales).

Label Info:
  If feature is indefinite or unsurveyed then label appropriately.

Remarks and Notes:
  less than .00036m X map/chart scale

Related DGIF Elements

PO_1574   RiverIntermittentL

STANAG 3675 Feature Types and Portrayal	Related DGIWG Portrayal Elements

105b2b   HYDROGRAPHY

RIVER / STREAM
  Non-Perennial (intermittent)

retained as

    SO_0285

Scale Applicability Info:
  Applicable to 1:250,000 scale and larger (not mandatory).

Label Info:
  If feature is indefinite or unsurveyed then label appropriately.

Remarks and Notes:
  .00036m to .0005m X map/chart scale

Related DGIF Elements

PO_1574   RiverIntermittentL

Tech Report: STANAG 3675 to DGIWG Portrayal

STANAG 3675 Feature Types and Portrayal	Related DGIWG Portrayal Elements

105b2c   HYDROGRAPHY

RIVER / STREAM
  Non-Perennial (intermittent)

retained as

   SO_0302

Scale Applicability Info:
  Applicable to 1:250,000 scale and larger (not mandatory).
  Applicable to 1:250,000 scale and smaller (may be used for all
  scales).

Related DGIF Elements

PO_1569   RiverIntermittentA

Label Info:
  If feature is indefinite or unsurveyed then label appropriately.

Remarks and Notes:
  greater than .0005m X map/chart scale

STANAG 3675 Feature Types and Portrayal	Related DGIWG Portrayal Elements

105c   HYDROGRAPHY

RIVER / STREAM
  Dry river bed or wadi / With perennial channel
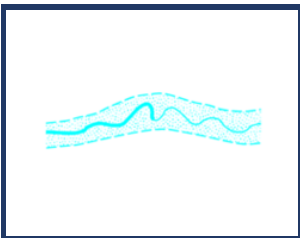
retained as

   SO_0247   and/or   SO_0295
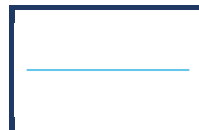
Scale Applicability Info:
  Applicable to all scales.

Label Info:
  If feature is indefinite or unsurveyed then label appropriately.

Tech Report: STANAG 3675 to DGIWG Portrayal

STANAG 3675 Feature Types and Portrayal	Related DGIWG Portrayal Elements

105d   HYDROGRAPHY

RIVER / STREAM

Dry river bed or wadi / With non-perennial or dry channel.

retained as

SO_0284   and/or   SO_0295
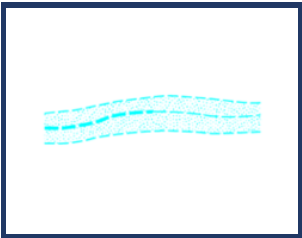
Scale Applicability Info:

Applicable to all scales.

Label Info:

If feature is indefinite or unsurveyed then label appropriately.

Related DGIF Elements

PO_1567   RiverDryA

STANAG 3675 Feature Types and Portrayal	Related DGIWG Portrayal Elements

105e   HYDROGRAPHY

RIVER / STREAM
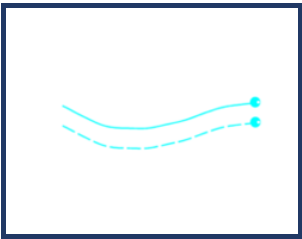
Disappearing

retained as

SO_0303

Scale Applicability Info:

Applicable to all scales.

Label Info:

If feature is indefinite or unsurveyed then label appropriately.

Related DGIF Elements

PO_1577   VanishingPointDisappearingP

Tech Report: STANAG 3675 to DGIWG Portrayal

STANAG 3675 Feature Types and Portrayal	Related DGIWG Portrayal Elements

105f   HYDROGRAPHY
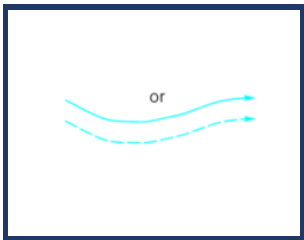
RIVER / STREAM
  Disappearing

Scale Applicability Info:
  Applicable to all scales.

Label Info:
  If feature is indefinite or unsurveyed then label appropriately.

not used

STANAG 3675 Feature Types and Portrayal	Related DGIWG Portrayal Elements

105g   HYDROGRAPHY

RIVER / STREAM
  Dissipating
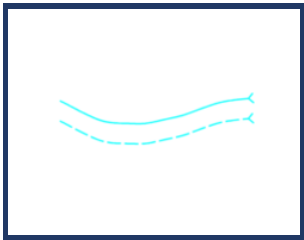
Scale Applicability Info:
  Applicable to all scales.

Label Info:
  If feature is indefinite or unsurveyed then label appropriately.

retained as

  SO_0304

Related DGIF Elements

PO_1578   VanishingPointDissipatingP

Tech Report: STANAG 3675 to DGIWG Portrayal

STANAG 3675 Feature Types and Portrayal	Related DGIWG Portrayal Elements

105h   HYDROGRAPHY

RIVER / STREAM
   Direction of flow

retained as

   SO_0307

Scale Applicability Info:
   Applicable to all scales.

Related DGIF Elements

Label Info:

   If feature is indefinite or unsurveyed then label appropriately.

PO_1638   RiverFlowArrowP

STANAG 3675 Feature Types and Portrayal	Related DGIWG Portrayal Elements

105i   HYDROGRAPHY

RIVER / STREAM
   Elevation
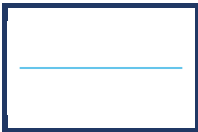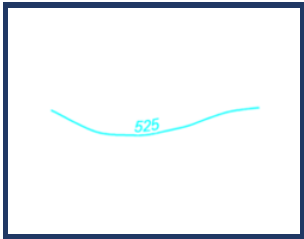
retained as

   SO_0247

Scale Applicability Info:
   Applicable to aeronautical charts at 1:500,000 scale and smaller.

Label Info:

   If feature is indefinite or unsurveyed then label appropriately.

Tech Report: STANAG 3675 to DGIWG Portrayal

STANAG 3675 Feature Types and Portrayal	Related DGIWG Portrayal Elements

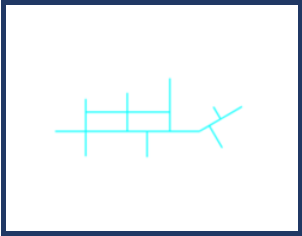**106a**   HYDROGRAPHY
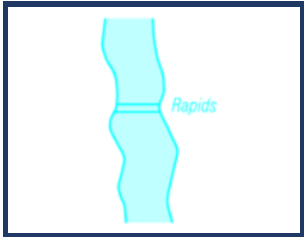
RAPIDS

Scale Applicability Info:
   Applicable to all scales.

Label Info:
   Label appropriately.

retained as

   SO_0299

Related DGIF Elements

PO_1562   RapidsL

STANAG 3675 Feature Types and Portrayal	Related DGIWG Portrayal Elements

106b   HYDROGRAPHY
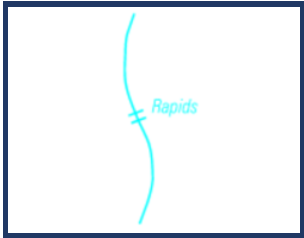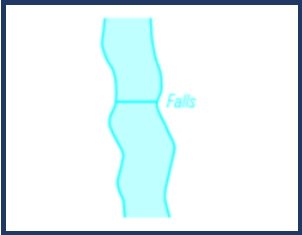
RAPIDS

Scale Applicability Info:
   Applicable to all scales.

Label Info:
   Label appropriately.

retained as

   SO_0300
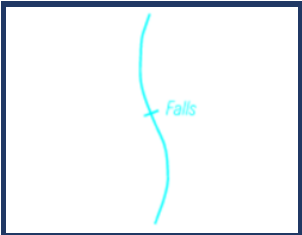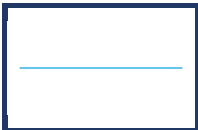
Related DGIF Elements

PO_1563   RapidsP

Tech Report: STANAG 3675 to DGIWG Portrayal
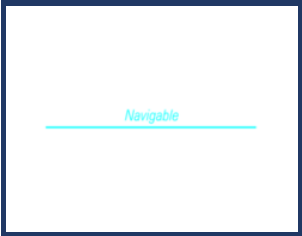
STANAG 3675 Feature Types and Portrayal	Related DGIWG Portrayal Elements

107a   HYDROGRAPHY

WATERFALL

Scale Applicability Info:

Applicable to all scales.

Label Info:

Label appropriately.

retained as

SO_0247

Related DGIF Elements

PO_1596   WaterfallL

STANAG 3675 Feature Types and Portrayal	Related DGIWG Portrayal Elements

107b   HYDROGRAPHY

WATERFALL

Scale Applicability Info:

Applicable to all scales.

Label Info:

Label appropriately.

retained as

SO_0247

Related DGIF Elements

PO_1597   WaterfallP

Tech Report: STANAG 3675 to DGIWG Portrayal

STANAG 3675 Feature Types and Portrayal	Related DGIWG Portrayal Elements

108a   HYDROGRAPHY

CANAL
  Navigable

retained as

  SO_0278

Scale Applicability Info:
  Applicable to all scales.

Label Info:
  Label as necessary for clarity.

Remarks and Notes:
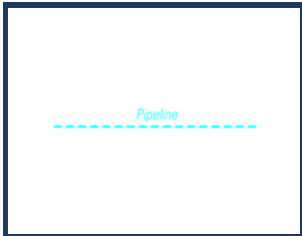 May be used for abandoned canal if appropriately labeled.

Related DGIF Elements

PO_1915   CanalPerennialIntactA

STANAG 3675 Feature Types and Portrayal	Related DGIWG Portrayal Elements

108b   HYDROGRAPHY

CANAL
  Navigable

retained as

  SO_0287

Scale Applicability Info:
  Applicable to all scales.

Label Info:
  Label as necessary for clarity.

Remarks and Notes:
  May be used for abandoned canal if appropriately labeled.

Related DGIF Elements

PO_1930   CanalPerennialL

Tech Report: STANAG 3675 to DGIWG Portrayal

STANAG 3675 Feature Types and Portrayal	Related DGIWG Portrayal Elements

108c   **HYDROGRAPHY**

CANAL

   Navigable

Scale Applicability Info:

  Applicable to all scales.

Label Info:

  Label as necessary for clarity.

Remarks and Notes:

  May be used for abandoned canal if appropriately labeled.

not used

STANAG 3675 Feature Types and Portrayal	Related DGIWG Portrayal Elements

108d   **HYDROGRAPHY**

CANAL

   Abandoned

Scale Applicability Info:

  Applicable to all scales.

Label Info:

  Label as necessary for clarity.

replaced by

   SO_0279

Related DGIF Elements

PO_1921   CanalOnGroundNotIntactA

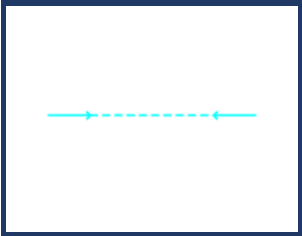--

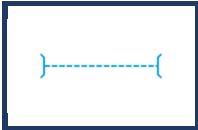# Tech Report: STANAG 3675 to DGIWG Portrayal

STANAG 3675 Feature Types and Portrayal	Related DGIWG Portrayal Elements

108e   HYDROGRAPHY

CANAL
   Abandoned

retained as

   SO_0285

Scale Applicability Info:
   Applicable to all scales.

Label Info:
   Label as necessary for clarity.

Related DGIF Elements

PO_1929   CanalNotIntactL

STANAG 3675 Feature Types and Portrayal	Related DGIWG Portrayal Elements

108f   HYDROGRAPHY
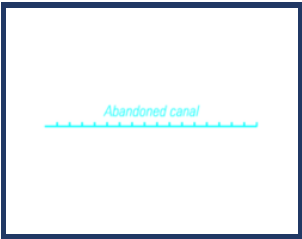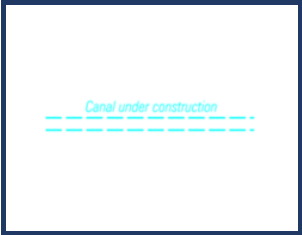
CANAL
   Abandoned

not used

Scale Applicability Info:
   Applicable to all scales.

Label Info:
   Label as necessary for clarity.

Tech Report: STANAG 3675 to DGIWG Portrayal

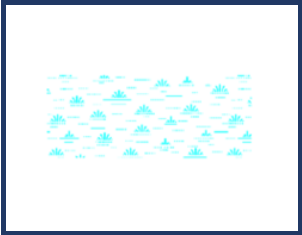| STANAG 3675 Feature Types and Portrayal	Related DGIWG Portrayal Elements

108g   **HYDROGRAPHY**

CANAL

   Under construction

Scale Applicability Info:

   Applicable to all scales.

Label Info:

   Label as necessary for clarity.

retained as

   SO_0279

STANAG 3675 Feature Types and Portrayal	Related DGIWG Portrayal Elements

108h   **HYDROGRAPHY**

CANAL

   Under construction

Scale Applicability Info:

   Applicable to all scales.

Label Info:

   Label as necessary for clarity.

retained as

   SO_0285

Tech Report: STANAG 3675 to DGIWG Portrayal

STANAG 3675 Feature Types and Portrayal	Related DGIWG Portrayal Elements

109   HYDROGRAPHY

DITCH (FOR IRRIGATION OR DRAINAGE)

retained as

SO_0176

Scale Applicability Info:

Applicable to all scales.

Label Info:

Label "Numerous ditches" as necessary.

Related DGIF Elements

PO_1484   InlandWatercourseDitchL

STANAG 3675 Feature Types and Portrayal	Related DGIWG Portrayal Elements

110a   HYDROGRAPHY

WATER CONDUITS

   Aqueduct, pipeline, penstock, and flume / Surface

retained as

SO_0280

Scale Applicability Info:

Applicable to all scales.

Label Info:

Label as necessary for clarity.

Remarks and Notes:

See symbol 527 for non-water pipeline.

Related DGIF Elements

PO_1425   AqueductOnSurfaceOnGroundIntactL

Tech Report: STANAG 3675 to DGIWG Portrayal
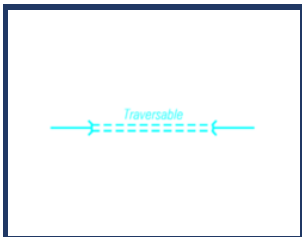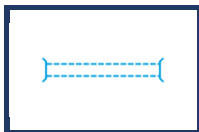
STANAG 3675 Feature Types and Portrayal	Related DGIWG Portrayal Elements

110b   HYDROGRAPHY

WATER CONDUITS

Aqueduct, pipeline, penstock, and flume / Elevated

retained as

SO_0282

Scale Applicability Info:

Applicable to all scales.

Label Info:

Label as necessary for clarity.

Remarks and Notes:

See symbol 527 for non-water pipeline.

Related DGIF Elements

PO_1424   AqueductElevatedIntactL

PO_1969   PipelineAboveSurfaceWaterL

STANAG 3675 Feature Types and Portrayal	Related DGIWG Portrayal Elements

110c   HYDROGRAPHY

WATER CONDUITS

Aqueduct, pipeline, penstock, and flume / Abandoned or under construction

retained as

SO_0285

Scale Applicability Info:

Applicable to all scales.

Label Info:

Label as necessary for clarity.

Remarks and Notes:

See symbol 527 for non-water pipeline.

Related DGIF Elements

PO_1429   AqueductOnSurfaceOnGroundNotIntactL

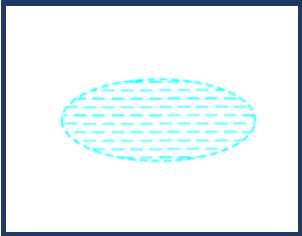PO_1982   PipelineOnSurfaceWaterNotIntactL

Tech Report: STANAG 3675 to DGIWG Portrayal
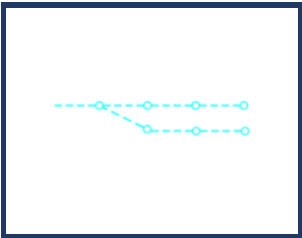
STANAG 3675 Feature Types and Portrayal	Related DGIWG Portrayal Elements

110d HYDROGRAPHY

WATER CONDUITS
Aqueduct, pipeline, and penstock / Underground

Scale Applicability Info:
Applicable to all scales.

Label Info:
Label as necessary for clarity.

Remarks and Notes:
See symbol 527 for non-water pipeline.

retained as

SO_0283

Related DGIF Elements

PO_1414   AqueductUndergroundIntactA

PO_1954   PenstockBelowGroundSurfaceL

STANAG 3675 Feature Types and Portrayal	Related DGIWG Portrayal Elements

110e HYDROGRAPHY

WATER CONDUITS
Aqueduct in traversable tunnel

Scale Applicability Info:
Applicable to all scales.

Label Info:
Label as necessary for clarity.

Remarks and Notes:
See symbol 527 for non-water pipeline.

retained as

SO_0073

Related DGIF Elements

PO_1415   AqueductUndergroundWithQanatShaftsIntactA

Tech Report: STANAG 3675 to DGIWG Portrayal
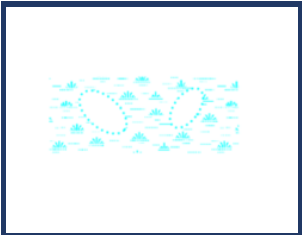
STANAG 3675 Feature Types and Portrayal	Related DGIWG Portrayal Elements

110f   HYDROGRAPHY

WATER CONDUITS

   Aqueduct in non-traversable tunnel

Scale Applicability Info:

  Applicable to all scales.

Label Info:

  Label as necessary for clarity.

Remarks and Notes:

  See symbol 527 for non-water pipeline.

retained as

   SO_0074

Related DGIF Elements

PO_1417   AqueductUndergroundWithoutQanatShaftsIntactA

STANAG 3675 Feature Types and Portrayal	Related DGIWG Portrayal Elements

110g   HYDROGRAPHY

WATER CONDUITS

   Kanat (Karez)

Scale Applicability Info:

  Applicable to all scales.

Label Info:

  Label as necessary for clarity.

Remarks and Notes:

  See symbol 527 for non-water pipeline.

retained as

   SO_0286

Related DGIF Elements

PO_1427   AqueductUndergroundWithQanatShaftsL

Tech Report: STANAG 3675 to DGIWG Portrayal

STANAG 3675 Feature Types and Portrayal	Related DGIWG Portrayal Elements

111   HYDROGRAPHY

MARSH / SWAMP

Scale Applicability Info:

  Applicable to all scales.

replaced by

  SO_0052

Related DGIF Elements

PO_2427   BogA

STANAG 3675 Feature Types and Portrayal	Related DGIWG Portrayal Elements

112   HYDROGRAPHY

SMALL CLEARINGS (HUMMOCKS, RIDGES, AND DRY AREAS)

Scale Applicability Info:

  Applicable to all scales.

retained as

  SO_0053

Related DGIF Elements

PO_2428   HummockA

STANAG 3675 Feature Types and Portrayal	Related DGIWG Portrayal Elements

113 HYDROGRAPHY

PEAT BOG

replaced by

SO_0052

Scale Applicability Info:

Applicable to all scales.

Label Info:

Label appropriately.

Related DGIF Elements

PO_9001   BogPeatA

STANAG 3675 Feature Types and Portrayal	Related DGIWG Portrayal Elements

114 HYDROGRAPHY
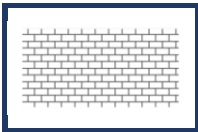
PEAT CUTTINGS

replaced by

SO_0090

Scale Applicability Info:

Applicable to all scales.
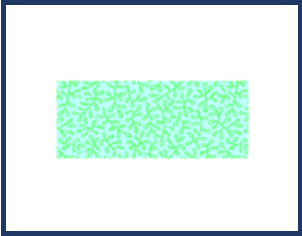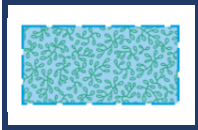
Label Info:

Label appropriately.
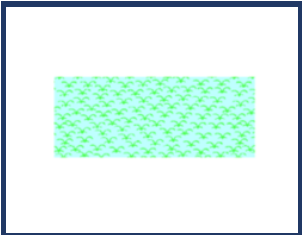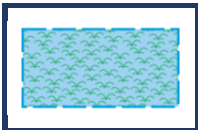
Related DGIF Elements

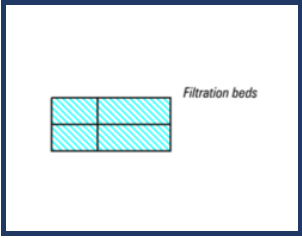PO_0309   ExtractionMinePeatA

Tech Report: STANAG 3675 to DGIWG Portrayal
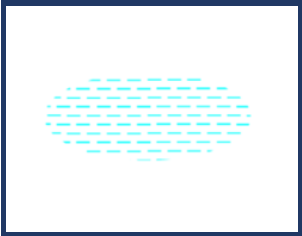
STANAG 3675 Feature Types and Portrayal	Related DGIWG Portrayal Elements

115   HYDROGRAPHY

MANGROVE

Scale Applicability Info:
Applicable to all scales.

Remarks and Notes:
Use with symbol 102.

retained as

SO_0055

Related DGIF Elements

PO_2432   SwampMangroveA

STANAG 3675 Feature Types and Portrayal	Related DGIWG Portrayal Elements

116   HYDROGRAPHY

NIPA PALM

Scale Applicability Info:
Applicable to all scales.

Remarks and Notes:
Use with symbol 102.

retained as

SO_0056

Related DGIF Elements

PO_2433   SwampNipaA

Tech Report: STANAG 3675 to DGIWG Portrayal

STANAG 3675 Feature Types and Portrayal	Related DGIWG Portrayal Elements

117a   HYDROGRAPHY

LAND SUBJECT TO INUNDATION
  Controlled

retained as

   SO_0294

Scale Applicability Info:
  Applicable to 1:250,000 scale and larger.

Label Info:
  Label as necessary for clarity.

Related DGIF Elements	

PO_1554   LandSubjectToInundationControlledA

STANAG 3675 Feature Types and Portrayal	Related DGIWG Portrayal Elements

117b   HYDROGRAPHY

LAND SUBJECT TO INUNDATION
  Natural

retained as

   SO_0295

Scale Applicability Info:
  Applicable to all scales.

Label Info:
  Label as necessary for clarity.

Remarks and Notes:
  For both controlled and natural land subject to inundation for 1:500,000 scale and smaller.

Related DGIF Elements	

PO_1655   OffshoreConstructionObstructionA

Tech Report: STANAG 3675 to DGIWG Portrayal

STANAG 3675 Feature Types and Portrayal	Related DGIWG Portrayal Elements

118   **HYDROGRAPHY**

RICE FIELD
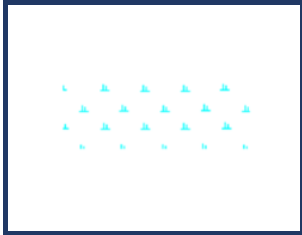
retained as

SO_0301

Scale Applicability Info:

Applicable to all scales.

Label Info:

Extensive areas may be indicated by label only.
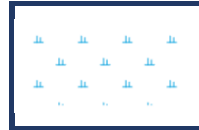
Related DGIF Elements

PO_1564   RiceFieldA

STANAG 3675 Feature Types and Portrayal	Related DGIWG Portrayal Elements

119   **HYDROGRAPHY**

SALT EVAPORATOR (MANMADE)
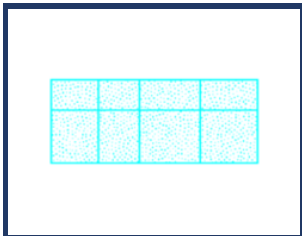
replaced by

SO_0161

Scale Applicability Info:

Applicable to all scales.

Label Info:

Label as necessary for clarity.

Remarks and Notes:

Fill choice is optional.
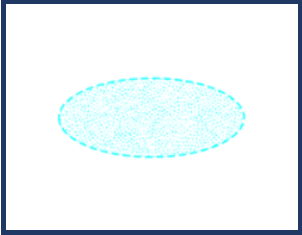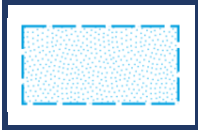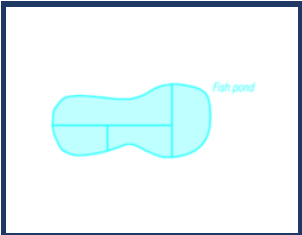
Related DGIF Elements

PO_1113   SaltEvaporatorA

Tech Report: STANAG 3675 to DGIWG Portrayal
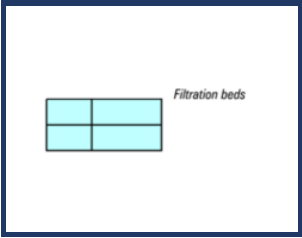
STANAG 3675 Feature Types and Portrayal	Related DGIWG Portrayal Elements

120   HYDROGRAPHY

SALT PAN (NATURAL)

retained as

SO_0302

Scale Applicability Info:

Applicable to all scales.

Label Info:

Label as necessary for clarity.

Related DGIF Elements

PO_1721   SaltFlatA

STANAG 3675 Feature Types and Portrayal	Related DGIWG Portrayal Elements

121   HYDROGRAPHY

FISH POND OR HATCHERY

replaced by

SO_0022

Scale Applicability Info:

Applicable to all scales.

Label Info:

Label as necessary for clarity (Fish pond).

Related DGIF Elements

PO_0134   FishFarmFacilityA

STANAG 3675 Feature Types and Portrayal	Related DGIWG Portrayal Elements

122a   HYDROGRAPHY

SETTLING BASIN AND FILTRATION BEDS

Scale Applicability Info:

Applicable to all scales.

Label Info:

Label as necessary for clarity (Filtration beds).

Remarks and Notes:

Fill choice is optional but black outline is mandatory. Use symbol 902 for 1:500,000 scale and smaller when unable to draw to scale.

retained as

SO_0288

Related DGIF Elements

PO_1115   SettlingPondA

STANAG 3675 Feature Types and Portrayal	Related DGIWG Portrayal Elements

122b   HYDROGRAPHY

SETTLING BASIN AND FILTRATION BEDS

Scale Applicability Info:

Applicable to all scales.

Label Info:

Label as necessary for clarity (Filtration beds).

Remarks and Notes:

Fill choice is optional but black outline is mandatory. Use symbol 902 for 1:500,000 scale and smaller when unable to draw to scale.

not used

Related DGIF Elements

PO_1115   SettlingPondA

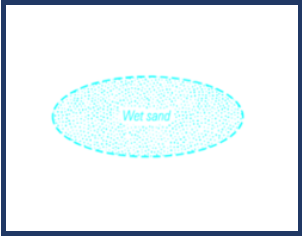---

Tech Report: STANAG 3675 to DGIWG Portrayal

STANAG 3675 Feature Types and Portrayal	Related DGIWG Portrayal Elements

123a   HYDROGRAPHY

SPRING
  Perennial

Scale Applicability Info:
  Applicable to 1:250,000 and larger.
Label Info:
  Label as necessary for clarity.

retained as

  SO_0296

Related DGIF Elements

PO_1560   NaturalPoolPerennialP

STANAG 3675 Feature Types and Portrayal	Related DGIWG Portrayal Elements

123b   HYDROGRAPHY

SPRING
  Perennial

Scale Applicability Info:
  Applicable to 1:500,000 and smaller.
Label Info:
  Label as necessary for clarity.

not used

Tech Report: STANAG 3675 to DGIWG Portrayal

STANAG 3675 Feature Types and Portrayal	Related DGIWG Portrayal Elements

123c   HYDROGRAPHY

SPRING
   Non-perennial

Scale Applicability Info:
   Applicable to 1:250,000 and larger.

Label Info:
   Label as necessary for clarity.

retained as

   SO_0297

Related DGIF Elements

PO_1558   NaturalPoolIntermittentP

STANAG 3675 Feature Types and Portrayal	Related DGIWG Portrayal Elements

123d   HYDROGRAPHY

SPRING
   Non-perennial

Scale Applicability Info:
   Applicable to 1:500,000 and smaller.

Label Info:
   Label as necessary for clarity.

not used

Tech Report: STANAG 3675 to DGIWG Portrayal
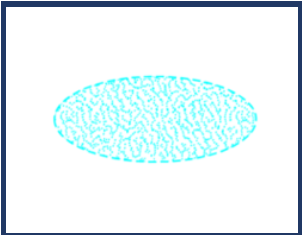
STANAG 3675 Feature Types and Portrayal	Related DGIWG Portrayal Elements

124a   HYDROGRAPHY

WELL

   Perennial

Scale Applicability Info:

   Applicable to all scales.

Label Info:

   Label as necessary for clarity.

Remarks and Notes:

   See symbol 618 for well (oil or gas).

retained as

   SO_0178

Related DGIF Elements

PO_1583   WaterWellPerennialP

STANAG 3675 Feature Types and Portrayal	Related DGIWG Portrayal Elements

124b   HYDROGRAPHY

WELL

   Non-perennial or dry

Scale Applicability Info:

   Applicable to all scales.

Label Info:

   Label as necessary for clarity.

Remarks and Notes:

   See symbol 618 for well (oil or gas).

retained as

   SO_0179

Related DGIF Elements

PO_1581   WaterWellIntermittentDryP

STANAG 3675 Feature Types and Portrayal	Related DGIWG Portrayal Elements

125   **HYDROGRAPHY**

WET SAND

retained as

SO_0353

Scale Applicability Info:

   Applicable to all scales.

Label Info:

   Label as necessary for clarity (Wet sand).

STANAG 3675 Feature Types and Portrayal	Related DGIWG Portrayal Elements

126   **HYDROGRAPHY**

SEBKHA (SABKHA)

retained as

SO_0351

Related DGIF Elements

PO_1720   SabkhaA

Scale Applicability Info:

   Applicable to all scales.

Label Info:

   Label as necessary for clarity.

Tech Report: STANAG 3675 to DGIWG Portrayal

STANAG 3675 Feature Types and Portrayal	Related DGIWG Portrayal Elements

201　　　　　　　　　　　　　　　　　　**COASTAL HYDROGRAPHY**
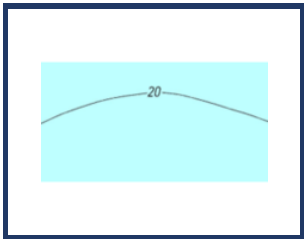
DEPTH CONTOUR

retained as

SO_0247

Scale Applicability Info:

Applicable to all scales.

IHO Related Artifacts:　　IHO-Reg, INT1

Related DGIF Elements

Remarks and Notes:

Optional colour is blue. Interval varies with map or chart scale. Indicate unit of measure in legend.

PO_2463　　DepthContourL

STANAG 3675 Feature Types and Portrayal	Related DGIWG Portrayal Elements

202　　　　　　　　　　　　　　　　　　**COASTAL HYDROGRAPHY**

FORESHORE

replaced by

SO_0116

Scale Applicability Info:

Applicable to all scales.

Label Info:

Label as necessary for clarity (Sand, Mud, etc.)

IHO Related Artifacts:　　IHO-Reg, INT1

Related DGIF Elements

Remarks and Notes:

Optional colours are blue or brown. May be used with symbol 206.

PO_1764　　ForeshoreA

Tech Report: STANAG 3675 to DGIWG Portrayal

STANAG 3675 Feature Types and Portrayal	**Related DGIWG Portrayal Elements**

203   **COASTAL HYDROGRAPHY**

REEF (ROCKY OR CORAL)

Scale Applicability Info:

Applicable to all scales.

Label Info:

Label appropriately (Coral, etc.).

Remarks and Notes:

Blue is an optional colour at 1:250,000 and larger. Black is an optional colour at 1:500,000 and smaller.

replaced by

SO_0347

IHO Related Artifacts: IHO-Reg, INT1

Related DGIF Elements

PO_1705   ReefA

STANAG 3675 Feature Types and Portrayal	**Related DGIWG Portrayal Elements**

204a   **COASTAL HYDROGRAPHY**

ROCKS

    Uncovering
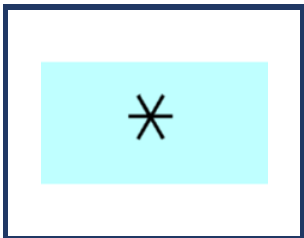
Scale Applicability Info:

Applicable to all scales.

Remarks and Notes:

May be used with symbol 206.

retained as

SO_0343

IHO Related Artifacts: IHO-Reg, INT1
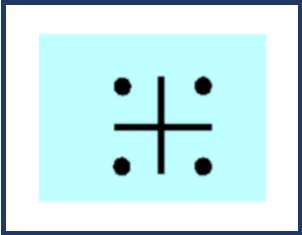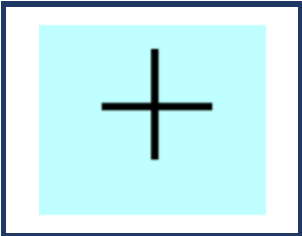
Related DGIF Elements

PO_1694   HazardousRockP

Tech Report: STANAG 3675 to DGIWG Portrayal

STANAG 3675 Feature Types and Portrayal	**Related DGIWG Portrayal Elements**

204b COASTAL HYDROGRAPHY

ROCKS

Awash

not used

Scale Applicability Info:

Applicable to all scales.

Related DGIF Elements

PO_1696   HazardousRockNotAlwaysSubmergedP

Remarks and Notes:

May be used with symbol 206.

STANAG 3675 Feature Types and Portrayal	**Related DGIWG Portrayal Elements**

204c COASTAL HYDROGRAPHY

ROCKS

Submerged

not used

IHO Related Artifacts: IHO-Reg, INT1

Related DGIF Elements

Scale Applicability Info:

Applicable to all scales.

PO_1695   HazardousRockAlwaysSubmergedP

Remarks and Notes:

May be used with symbol 206.

Tech Report: STANAG 3675 to DGIWG Portrayal

STANAG 3675 Feature Types and Portrayal	Related DGIWG Portrayal Elements

205a   COASTAL HYDROGRAPHY

WRECK
   Exposed

retained as

   SO_0160

IHO Related Artifacts: IHO-Reg, INT1

Related DGIF Elements

PO_1701   WreckP

Scale Applicability Info:
   Applicable to all scales.

Remarks and Notes:
   May be used with symbol 206.

STANAG 3675 Feature Types and Portrayal	Related DGIWG Portrayal Elements

205b   COASTAL HYDROGRAPHY

WRECK
   Exposed

not used

Scale Applicability Info:
   Applicable to all scales.

Remarks and Notes:
   May be used with symbol 206.

STANAG 3675 Feature Types and Portrayal	Related DGIWG Portrayal Elements

206   COASTAL HYDROGRAPHY

LIMITING DANGER LINE

retained as

SO_0744

Scale Applicability Info:

  Applicable to all scales.

Label Info:

  Label appropriately (ex. Exposed wreckage).

Remarks and Notes:

  May be used with symbol 202, 204, 205.

IHO Related Artifacts: IHO-Reg, INT1

STANAG 3675 Feature Types and Portrayal	Related DGIWG Portrayal Elements

207   COASTAL HYDROGRAPHY

MISCELLANEOUS UNDERWATER FEATURES NOT OTHERWISE SYMBOLISED

retained as

SO_0279

Scale Applicability Info:

  Applicable to 1:250,000 scale and smaller

Label Info:

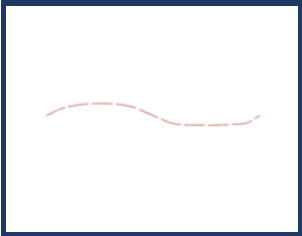 Label appropriately (Shoals, Breakers, etc.).

Tech Report: STANAG 3675 to DGIWG Portrayal

STANAG 3675 Feature Types and Portrayal	Related DGIWG Portrayal Elements

208a COASTAL HYDROGRAPHY

ICE SHELF Limits
  Known

Scale Applicability Info:
  Applicable to all scales.
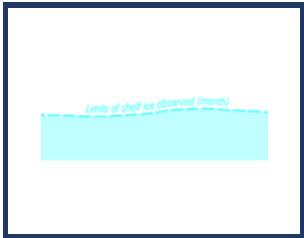
Label Info:
  Label appropriately (Limits of shelf ice observed (month)).

retained as

  SO_0284

IHO Related Artifacts: AML

Related DGIF Elements

PO_1786   IceShelfA

STANAG 3675 Feature Types and Portrayal	Related DGIWG Portrayal Elements

208b COASTAL HYDROGRAPHY

ICE SHELF Limits
  Unknown

Scale Applicability Info:
  Applicable to all scales.

Label Info:
  Label appropriately (Limits of shelf ice unknown).

retained as label

IHO Related Artifacts: IHO-Reg, AML

Related DGIF Elements

PO_1786   IceShelfA

Tech Report: STANAG 3675 to DGIWG Portrayal

STANAG 3675 Feature Types and Portrayal	Related DGIWG Portrayal Elements

209a   COASTAL HYDROGRAPHY

POLAR ICE

Scale Applicability Info:

Applicable to all scales.

Label Info:

Label appropriately (APPROXIMATE MINIMUM LIMITS OF
PERMANENT POLAR ICE (MONTH)).

replaced by

SO_0316

IHO Related Artifacts: AML, S101

Related DGIF Elements

PO_2491   PolarIceA

STANAG 3675 Feature Types and Portrayal	Related DGIWG Portrayal Elements

209B   COASTAL HYDROGRAPHY

POLAR ICE

Scale Applicability Info:

Applicable to all scales.

Label Info:

Label appropriately (APPROXIMATE MINIMUM LIMITS OF
PERMANENT POLAR ICE (MONTH)).

retained as label

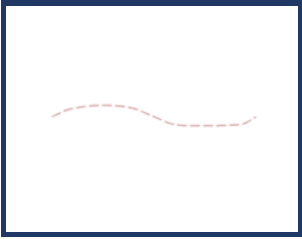IHO Related Artifacts: S101

Tech Report: STANAG 3675 to DGIWG Portrayal

STANAG 3675 Feature Types and Portrayal	Related DGIWG Portrayal Elements

210a COASTAL HYDROGRAPHY

PACK ICE

replaced by

SO_0316

Scale Applicability Info:

Applicable to all scales.

IHO Related Artifacts: IHO-Reg, INT1

Related DGIF Elements

Label Info:

Label appropriately (APPROXIMATE MINIMUM LIMITS OF PERMANENT PACK ICE (MONTH)).

PO_2488   PackIceA

STANAG 3675 Feature Types and Portrayal	Related DGIWG Portrayal Elements

210b COASTAL HYDROGRAPHY

PACK ICE

not used

Scale Applicability Info:

Applicable to all scales.

IHO Related Artifacts: IHO-Reg

Label Info:

Label appropriately (APPROXIMATE MINIMUM LIMITS OF PERMANENT PACK ICE (MONTH)).

Tech Report: STANAG 3675 to DGIWG Portrayal
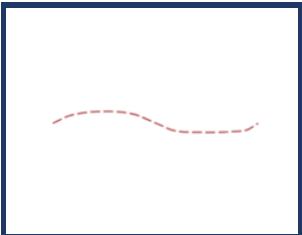
STANAG 3675 Feature Types and Portrayal	Related DGIWG Portrayal Elements

301a1   **RELIEF**

CONTOUR LINE (LAND)
  Accurate / Index

retained as

  SO_0238

Related DGIF Elements

Scale Applicability Info:
  Applicable to all scales.

PO_1296   ElevationContourLandIndexL

Remarks and Notes:
  Optional colour is black for aeronautical charts at 1:500,000 and smaller.

STANAG 3675 Feature Types and Portrayal	Related DGIWG Portrayal Elements

301a2   **RELIEF**

CONTOUR LINE (LAND)
  Accurate / Intermediate

retained as

  SO_0234

Scale Applicability Info:
  Applicable to all scales.

Related DGIF Elements

PO_1298   ElevationContourLandIntermediateL

Remarks and Notes:
  Optional colour is black for aeronautical charts at 1:500,000 and smaller.

Tech Report: STANAG 3675 to DGIWG Portrayal
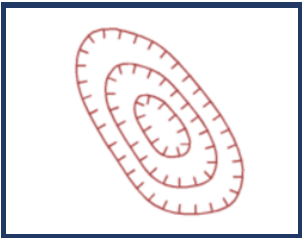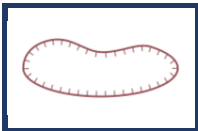
STANAG 3675 Feature Types and Portrayal	Related DGIWG Portrayal Elements

301a3   **RELIEF**

CONTOUR LINE (LAND)
   Accurate / Supplementary

retained as

   SO_0235

Scale Applicability Info:
   Applicable to all scales.

Related DGIF Elements

PO_1289   ElevationContourLandHalfAuxiliaryL

Remarks and Notes:
   Optional colour is black for aeronautical charts at 1:500,000 and
   smaller.

STANAG 3675 Feature Types and Portrayal	Related DGIWG Portrayal Elements

301b1   **RELIEF**

CONTOUR LINE (LAND)
   Approximate / Index

retained as

   SO_0239

Scale Applicability Info:
   Applicable to all scales.

Related DGIF Elements

PO_1290   ElevationContourLandIndexApproximateL

Remarks and Notes:
   Optional colour is black for aeronautical charts at 1:500,000 and
   smaller.

Tech Report: STANAG 3675 to DGIWG Portrayal

STANAG 3675 Feature Types and Portrayal	Related DGIWG Portrayal Elements

301b2   **RELIEF**

CONTOUR LINE (LAND)

Approximate / Intermediate

retained as

SO_0236

Scale Applicability Info:

Applicable to all scales.

Related DGIF Elements

PO_1297   ElevationContourLandIntermediateApproximateL

Remarks and Notes:

Optional colour is black for aeronautical charts at 1:500,000 and smaller.

STANAG 3675 Feature Types and Portrayal	Related DGIWG Portrayal Elements

301c1   **RELIEF**

CONTOUR LINE (LAND)

Depression

retained as

SO_0244

Scale Applicability Info:

Applicable to all scales.

Related DGIF Elements

PO_2462   DepressionA

Remarks and Notes:

Optional colour is black for aeronautical charts at 1:500,000 and smaller. Where hypometric tints are shown, ticks may be omitted if the tint adequately portrays the depression.

Tech Report: STANAG 3675 to DGIWG Portrayal

STANAG 3675 Feature Types and Portrayal	Related DGIWG Portrayal Elements

301c2   **RELIEF**

CONTOUR LINE (LAND)
   Depression

not used

Scale Applicability Info:
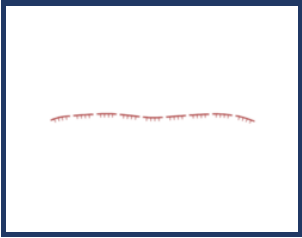   Applicable to all scales.

Remarks and Notes:
   Optional colour is black for aeronautical charts at 1:500,000 and
   smaller. Where hypometric tints are shown, ticks may be omitted
   if the tint adequately portrays the depression.

STANAG 3675 Feature Types and Portrayal	Related DGIWG Portrayal Elements

301c3   **RELIEF**

CONTOUR LINE (LAND)
   Depression

retained as label

Scale Applicability Info:
   Applicable to all scales.

Remarks and Notes:
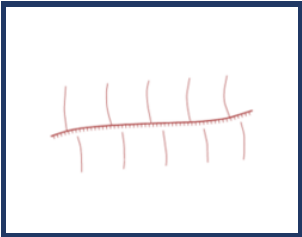   Optional colour is black for aeronautical charts at 1:500,000 and
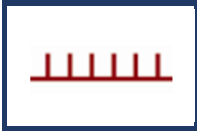   smaller. Where hypometric tints are shown, ticks may be omitted
   if the tint adequately portrays the depression.

Related DGIF Elements	
PO_1294	ElevationContourLandDepressionIndexL
PO_1295	ElevationContourLandDepressionIntermediateL

Tech Report: STANAG 3675 to DGIWG Portrayal

STANAG 3675 Feature Types and Portrayal	Related DGIWG Portrayal Elements

302   **RELIEF**
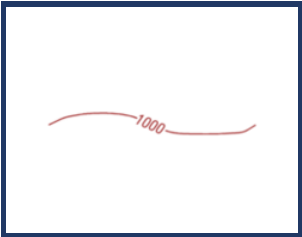
CONTOUR VALUE

retained as label

Scale Applicability Info:

Applicable to all scales.

Related DGIF Elements	
PO_1296	ElevationContourLandIndexL
PO_1298	ElevationContourLandIntermediateL

Remarks and Notes:

Optional colour is black for aeronautical charts at 1:500,000 and smaller.

STANAG 3675 Feature Types and Portrayal	Related DGIWG Portrayal Elements

303   **RELIEF**

FORM LINE

retained as

SO_0235

Scale Applicability Info:

Applicable to 1:250,000 scale and larger.

Tech Report: STANAG 3675 to DGIWG Portrayal

STANAG 3675 Feature Types and Portrayal	Related DGIWG Portrayal Elements

304 RELIEF

UNCONTOURED AREA

Scale Applicability Info:
Applicable to all scales.

Label Info:
Center the note "Relief data incomplete" within the uncontoured area.

Remarks and Notes:
Use elevation tints in areas of relief for aeronautical charts at 1:500,000 scale and smaller.

see note
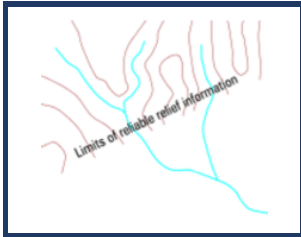
Note: Elevation tints or black label.

STANAG 3675 Feature Types and Portrayal	Related DGIWG Portrayal Elements

305a RELIEF

BLUFF / CLIFF / ESCARPMENT
High (greater than or equal to contour interval)

Scale Applicability Info:
Applicable to all scales.

Remarks and Notes:
Optional colour is black for aeronautical charts at 1:500,000 scale and smaller.

retained as

SO_0371
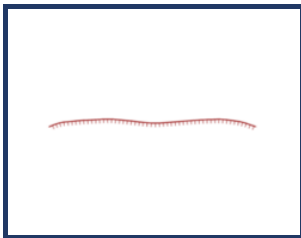
Related DGIF Elements

PO_1753   SteepTerrainFaceGreaterThanOrEqualContourL

Tech Report: STANAG 3675 to DGIWG Portrayal

STANAG 3675 Feature Types and Portrayal	Related DGIWG Portrayal Elements

305b   RELIEF

BLUFF / CLIFF / ESCARPMENT
  Low (less than contour interval)

retained as

   SO_0242

Scale Applicability Info:
   Applicable to 1:250,000 scale and larger.

Related DGIF Elements

PO_1754   SteepTerrainFaceLessThanContourIntervalL

STANAG 3675 Feature Types and Portrayal	Related DGIWG Portrayal Elements

306a   RELIEF

FAULT

retained as

   SO_0238   and   SO_0363

Scale Applicability Info:
   Applicable to 1:250,000 scale and larger.

Label Info:
   Label as necessary for clarity (Fault).

Related DGIF Elements

PO_1748   GeologicFaultL

Tech Report: STANAG 3675 to DGIWG Portrayal

STANAG 3675 Feature Types and Portrayal	Related DGIWG Portrayal Elements

306b   **RELIEF**

FAULT
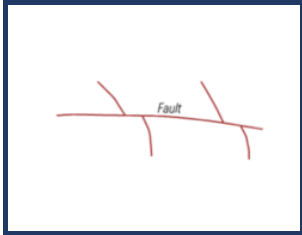
retained as

SO_0238

Scale Applicability Info:

Applicable to aeronautical charts at 1:500,000 scale and smaller.

Label Info:

Label as necessary for clarity (Fault).

Remarks and Notes:

Optional colour is black.

Related DGIF Elements

PO_1748   GeologicFaultL

STANAG 3675 Feature Types and Portrayal	Related DGIWG Portrayal Elements

307   **RELIEF**

ROCK STRATA / ROCK FORMATION

replaced by
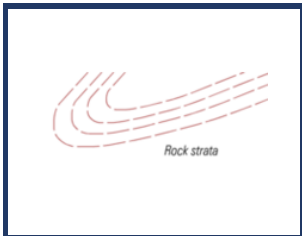
SO_0363

Scale Applicability Info:

Applicable to aeronautical charts at 1:500,000 scale and smaller.

Label Info:

Label as necessary for clarity (Rock strata).

Remarks and Notes:

Optional colour is black.

Related DGIF Elements

PO_1732   RockFormationL

Tech Report: STANAG 3675 to DGIWG Portrayal

STANAG 3675 Feature Types and Portrayal	Related DGIWG Portrayal Elements

308a   RELIEF

CRATER

Scale Applicability Info:

Applicable to 1:250,000 scale and larger.

Label Info:

Label as necessary for clarity (Crater).

Remarks and Notes:

Optional colour is black.

replaced by

SO_0638

Related DGIF Elements

PO_2460   CraterP

STANAG 3675 Feature Types and Portrayal	Related DGIWG Portrayal Elements

308b   RELIEF

CRATER

Scale Applicability Info:

Applicable to aeronautical charts at 1:500,000 scale and smaller.

Remarks and Notes:

Optional colour is black.

not used

Note: Similiar representation may be applied using contours.

Tech Report: STANAG 3675 to DGIWG Portrayal

STANAG 3675 Feature Types and Portrayal	Related DGIWG Portrayal Elements

**309**   **RELIEF**

GROUND SURFACE ELEMENT (KARST, LAVA, LOESS, BOULDERS, OIL BLISTER)

replaced by

SO_0365

Scale Applicability Info:

Applicable to all scales.

Label Info:

Label appropriately (Lava, Karst, etc.).

Remarks and Notes:

Optional colour is black for 1:1,000,000 and smaller Aeronautical charts. Optional symbol for karst is 301 (depression contour)

Related DGIF Elements

PO_1738   DistortedSurfaceLavaA

STANAG 3675 Feature Types and Portrayal	Related DGIWG Portrayal Elements

310   **RELIEF**

SAND

retained as

SO_0353
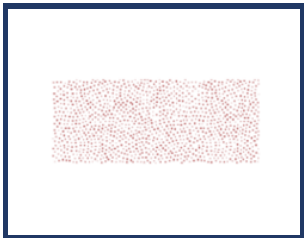
Scale Applicability Info:

Applicable to all scales.

Remarks and Notes:

Optional colour is black for 1:1,000,000 and smaller Aeronautical charts.

Related DGIF Elements

PO_1757   BeachSandA

Tech Report: STANAG 3675 to DGIWG Portrayal

STANAG 3675 Feature Types and Portrayal

311a   RELIEF

SAND DUNE / SAND HILLS
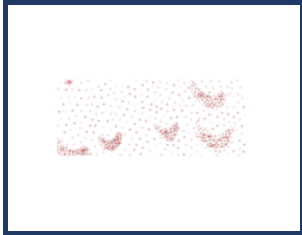
Scale Applicability Info:

Applicable to aeronautical charts at 1:500,000 scale and smaller.

Remarks and Notes:

Representative patterns and/or actual shapes are shown as individual areas require. Orient pattern to reflect ground condition. Optional colour is black for 1:1,000,000 and smaller Aeronautical charts.

Related DGIWG Portrayal Elements

replaced by

SO_0353   or   SO_0354

Related DGIF Elements

PO_1722   SandDunesA

STANAG 3675 Feature Types and Portrayal

311b   RELIEF

SAND DUNE / SAND HILLS

  Crescent
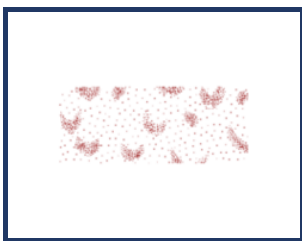
Scale Applicability Info:

Applicable to 1:250,000 scale and larger.

Remarks and Notes:

Representative patterns and/or actual shapes are shown as individual areas require.

Related DGIWG Portrayal Elements

retained as

SO_0354

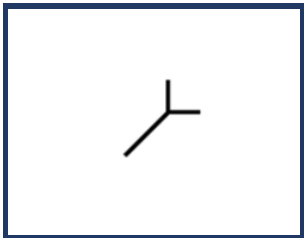| Related DGIF Elements |
|---|

PO_1723   SandDunesCrescentA

Tech Report: STANAG 3675 to DGIWG Portrayal

STANAG 3675 Feature Types and Portrayal	Related DGIWG Portrayal Elements

311c   RELIEF

SAND DUNE / SAND HILLS
  Lateral
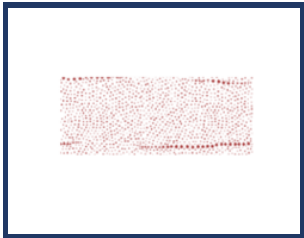
retained as

  SO_0356

Scale Applicability Info:
  Applicable to 1:250,000 scale and larger.

Related DGIF Elements

PO_1725   SandDunesLinearA

Remarks and Notes:
  Representative patterns and/or actual shapes are shown as
  individual areas require.

STANAG 3675 Feature Types and Portrayal	Related DGIWG Portrayal Elements

311d   RELIEF

SAND DUNE / SAND HILLS
  Mounds
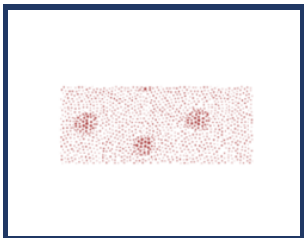
retained as

  SO_0355

Scale Applicability Info:
  Applicable to 1:250,000 scale and larger.

Related DGIF Elements

PO_1724   SandDunesDomeA

Remarks and Notes:
  Representative patterns and/or actual shapes are shown as
  individual areas require.

Tech Report: STANAG 3675 to DGIWG Portrayal

STANAG 3675 Feature Types and Portrayal	Related DGIWG Portrayal Elements

311e   RELIEF

SAND DUNE / SAND HILLS
  Ripple

Scale Applicability Info:
  Applicable to 1:250,000 scale and larger.
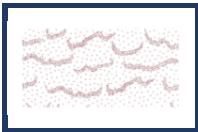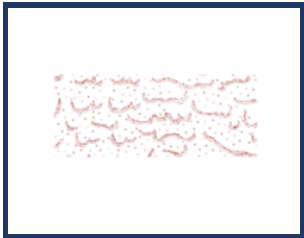
Remarks and Notes:
  Representative patterns and/or actual shapes are shown as
  individual areas require.

retained as

  SO_0357

Related DGIF Elements

PO_1726   SandDunesRippleA

STANAG 3675 Feature Types and Portrayal	Related DGIWG Portrayal Elements

311f   RELIEF

SAND DUNE / SAND HILLS
  Star

Scale Applicability Info:
  Applicable to 1:250,000 scale and larger.
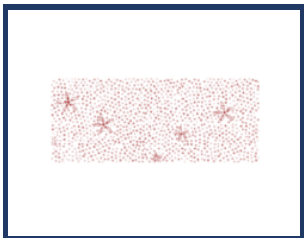
Remarks and Notes:
  Representative patterns and/or actual shapes are shown as
  individual areas require.

retained as

  SO_0358

Related DGIF Elements

PO_1727   SandDunesStarA

Tech Report: STANAG 3675 to DGIWG Portrayal

STANAG 3675 Feature Types and Portrayal	Related DGIWG Portrayal Elements

**311g**   **RELIEF**

SAND DUNE / SAND HILLS

Transverse
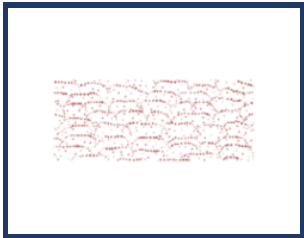
retained as

SO_0359

Scale Applicability Info:

Applicable to 1:250,000 scale and larger.

Related DGIF Elements

PO_1728   SandDunesTransverseA

Remarks and Notes:

Representative patterns and/or actual shapes are shown as individual areas require.

STANAG 3675 Feature Types and Portrayal	Related DGIWG Portrayal Elements

312   **RELIEF**

CAVE

retained as

SO_0368

Scale Applicability Info:

Applicable to all scales.

Related DGIF Elements

PO_1745   CaveMouthP

Tech Report: STANAG 3675 to DGIWG Portrayal

STANAG 3675 Feature Types and Portrayal	Related DGIWG Portrayal Elements

313   RELIEF

UNUSUAL LAND FEATURES (SMALL TOP, PINNACLE, SMALL CINDER CONE, ISOLATED ROCK, SMALL NUNATAK)

retained as

SO_0315

Scale Applicability Info:

Applicable to all scales.

Label Info:

Label appropriately (Pinnacle, Isolated rock, etc.).

STANAG 3675 Feature Types and Portrayal	Related DGIWG Portrayal Elements

314   RELIEF

ICE PEAK

retained as

SO_0314

Scale Applicability Info:

Applicable to all scales.

Label Info:

Name and elevation may be shown.

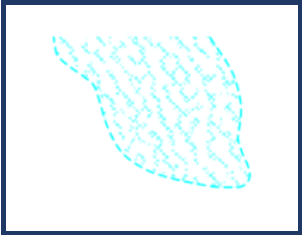| Related DGIF Elements |
|---|

PO_1783   IcePeakP

Tech Report: STANAG 3675 to DGIWG Portrayal

STANAG 3675 Feature Types and Portrayal	Related DGIWG Portrayal Elements

315   RELIEF

MOUNTAIN PASS
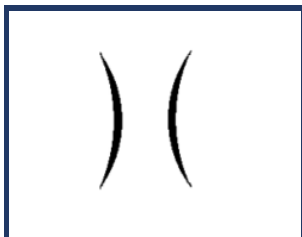
retained as

SO_0369

Scale Applicability Info:

Applicable to all scales.

Related DGIF Elements

PO_1751   MountainPassP

STANAG 3675 Feature Types and Portrayal	Related DGIWG Portrayal Elements

316a   RELIEF

CREVICE / CREVASSE

   Crevice

retained as

SO_0372

Scale Applicability Info:

Applicable to 1:100,000 scale and larger.

Label Info:

Label as necessary for clarity (Crevice).
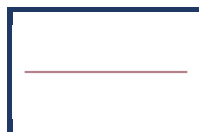
Related DGIF Elements

PO_1746   CreviceA

Tech Report: STANAG 3675 to DGIWG Portrayal

STANAG 3675 Feature Types and Portrayal	Related DGIWG Portrayal Elements

316b   **RELIEF**

CREVICE / CREVASSE
   Crevasse To scale
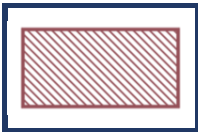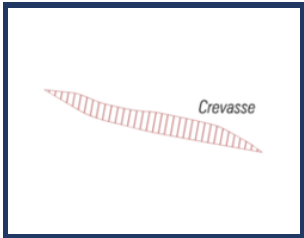
retained as

   SO_0370

Scale Applicability Info:
   Applicable to 1:100,000 scale and larger.

Label Info:
   Label as necessary for clarity (Crevasse).

Related DGIF Elements

PO_1778   CrevasseA

STANAG 3675 Feature Types and Portrayal	Related DGIWG Portrayal Elements

317a   **RELIEF**

ICE CREVICE / ICE CREVASSE
   Ice Crevice
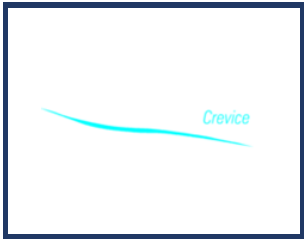
retained as

   SO_0408

Scale Applicability Info:
   Applicable to 1:100,000 scale and larger.
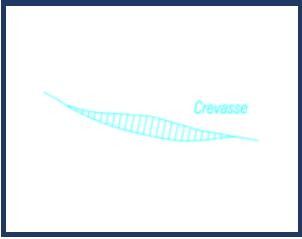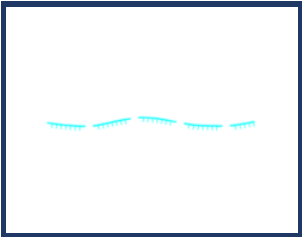
Label Info:
   Label as necessary for clarity (Crevice).

Tech Report: STANAG 3675 to DGIWG Portrayal
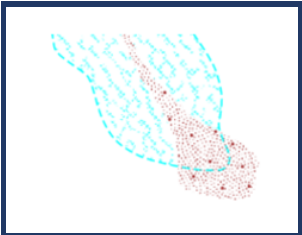
STANAG 3675 Feature Types and Portrayal	Related DGIWG Portrayal Elements

317b   RELIEF

ICE CREVICE / ICE CREVASSE
   Ice Crevasse To scale

Scale Applicability Info:
   Applicable to 1:100,000 scale and larger.

Label Info:
   Label as necessary for clarity (Crevasse).

retained as

   SO_0320

Related DGIF Elements

PO_1778   CrevasseA

STANAG 3675 Feature Types and Portrayal	Related DGIWG Portrayal Elements

318   RELIEF

ICE CLIFF

Scale Applicability Info:
   Applicable to all scales.

replaced by

   SO_0313

IHO Related Artifacts: INT1

Related DGIF Elements

PO_1782   IceCliffL

Tech Report: STANAG 3675 to DGIWG Portrayal
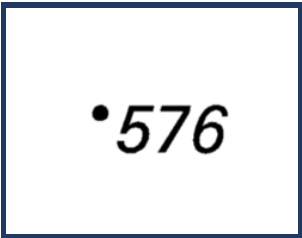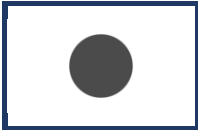
STANAG 3675 Feature Types and Portrayal	Related DGIWG Portrayal Elements

319　　　　　　　　　　　　　　　　　　　　　　**RELIEF**

GLACIER

retained as

SO_0312

Scale Applicability Info:

Applicable to all scales.

IHO Related Artifacts:　　INT1

Related DGIF Elements

PO_1781　　GlacierA

STANAG 3675 Feature Types and Portrayal	Related DGIWG Portrayal Elements

320　　　　　　　　　　　　　　　　　　　　　　**RELIEF**

MORAINE

retained as

SO_0366

Scale Applicability Info:

Applicable to all scales.

Related DGIF Elements

PO_1750　　MoraineA

Tech Report: STANAG 3675 to DGIWG Portrayal

STANAG 3675 Feature Types and Portrayal	Related DGIWG Portrayal Elements

321   **RELIEF**

SNOW FIELD / ICE FIELD

Scale Applicability Info:

Applicable to all scales.

Label Info:

Label appropriately (Snow field, Ice field).

retained as

SO_0316

Related DGIF Elements

PO_1787   SnowIceFieldA

STANAG 3675 Feature Types and Portrayal	Related DGIWG Portrayal Elements

322a   **RELIEF**

SPOT ELEVATION

   Importance-Normal

Scale Applicability Info:

All Scales. Type size varies with importance.

retained as

SO_0414

Note: Reflected in labeling rules.

Tech Report: STANAG 3675 to DGIWG Portrayal

STANAG 3675 Feature Types and Portrayal	Related DGIWG Portrayal Elements

322b   **RELIEF**

retained as

SPOT ELEVATION

   Importance-Critical

SO_0414

Note: Reflected in labeling rules.

Scale Applicability Info:

  All Scales. Type size varies with importance.

STANAG 3675 Feature Types and Portrayal	Related DGIWG Portrayal Elements

322c   **RELIEF**

retained as

SPOT ELEVATION

   Importance-Highest

SO_0414

Note: Reflected in labeling rules.
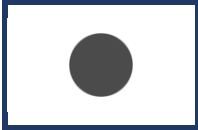
Scale Applicability Info:

  All Scales. Type size varies with importance.

Tech Report: STANAG 3675 to DGIWG Portrayal

STANAG 3675 Feature Types and Portrayal	Related DGIWG Portrayal Elements

322d   RELIEF

SPOT ELEVATION
  Importance-Highest

retained as

  SO_0414

Note: Reflected in labeling rules.

Scale Applicability Info:
  All Scales. Type size varies with importance.

Label Info:
  Box around number is optional.

STANAG 3675 Feature Types and Portrayal	Related DGIWG Portrayal Elements

322e   RELIEF

SPOT ELEVATION
  Position and elevation accurate
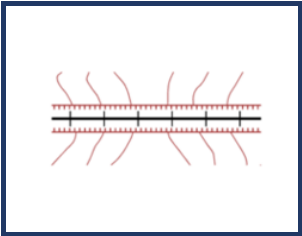

retained as

  SO_0414

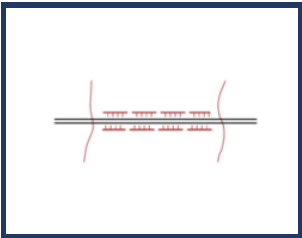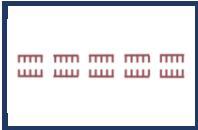Note: Reflected in labeling rules.

Label Info:
  Accuracy symbols apply to normal, critical, and highest spot
  values based on accuracy determination.

Tech Report: STANAG 3675 to DGIWG Portrayal

STANAG 3675 Feature Types and Portrayal	Related DGIWG Portrayal Elements

322f   **RELIEF**
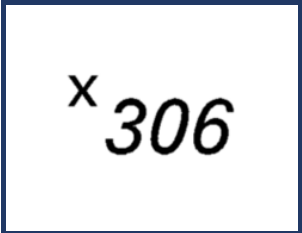
SPOT ELEVATION
   Position and elevation approximate

Label Info:
   Accuracy symbols apply to normal, critical, and highest spot
   values based on accuracy determination.

retained as

   See Note

Note: Reflected in labeling rules.

STANAG 3675 Feature Types and Portrayal	Related DGIWG Portrayal Elements

322g   **RELIEF**

SPOT ELEVATION
   Position and elevation approximate

Label Info:
   Accuracy symbols apply to normal, critical, and highest spot
   values based on accuracy determination.

retained as

   SO_0414

Note: Reflected in labeling rules.

Tech Report: STANAG 3675 to DGIWG Portrayal

STANAG 3675 Feature Types and Portrayal	Related DGIWG Portrayal Elements
322h RELIEF	**see note**

SPOT ELEVATION

Approximate Location

Note: Reflected in labeling rules.

Label Info:

Accuracy symbols apply to normal, critical, and highest spot values based on accuracy determination.

STANAG 3675 Feature Types and Portrayal	Related DGIWG Portrayal Elements
322i RELIEF	**see note**

SPOT ELEVATION

Approximate Location

Note: Reflected in labeling rules.

Label Info:

Accuracy symbols apply to normal, critical, and highest spot values based on accuracy determination.
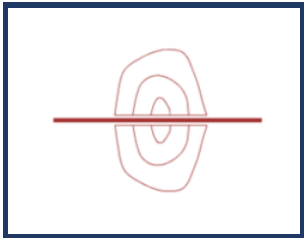

Tech Report: STANAG 3675 to DGIWG Portrayal

STANAG 3675 Feature Types and Portrayal	Related DGIWG Portrayal Elements

323a   RELIEF

CUT

High (greater than or equal to contour interval) or through more than one contour interval.

Scale Applicability Info:

Applicable to 1:250,000 scale and larger.

retained as

SO_0377

Related DGIF Elements

PO_1768   CutLineGreaterThanOrEqualToContourIntervalL

STANAG 3675 Feature Types and Portrayal	Related DGIWG Portrayal Elements

323b   RELIEF

CUT

Through more than one contour interval

Scale Applicability Info:

Applicable to all scales.

Remarks and Notes:

Optional colour is black for aeronautical charts at 1:500,000 scale and smaller.

retained as

SO_0746

Related DGIF Elements

PO_1769   CutLineLessThanContourIntervalL

Tech Report: STANAG 3675 to DGIWG Portrayal

STANAG 3675 Feature Types and Portrayal	Related DGIWG Portrayal Elements

**323c**   **RELIEF**

CUT

   Low (less than contour interval) or Within one contour interval

retained as

    SO_0377

Scale Applicability Info:

   Applicable to aeronautical charts at 1:500,000 and smaller.

Remarks and Notes:

   Optional colour is black

STANAG 3675 Feature Types and Portrayal	Related DGIWG Portrayal Elements

324a   **RELIEF**

EMBANKMENT / FILL

   High (greater than or equal to contour interval) or through more than one contour interval.

retained as

    SO_0383
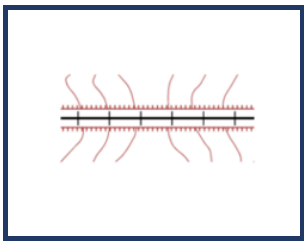
Scale Applicability Info:

   Applicable to 1:250,000 scale and larger and aeronautical charts at 1:500,000 scale and smaller.

Remarks and Notes:

   Optional colour is black

Tech Report: STANAG 3675 to DGIWG Portrayal

STANAG 3675 Feature Types and Portrayal	Related DGIWG Portrayal Elements

324b   RELIEF

EMBANKMENT / FILL
   Low (less than contour interval) or within one contour interval.
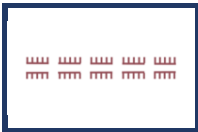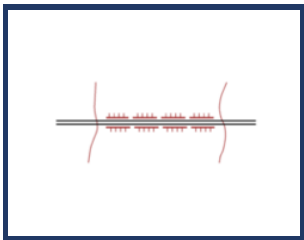
retained as

   SO_0766

Scale Applicability Info:
   Applicable to all scales.

Remarks and Notes:
   Optional colour is black for aeronautical charts at 1:500,000 scale and smaller.

STANAG 3675 Feature Types and Portrayal	Related DGIWG Portrayal Elements

325a   RELIEF
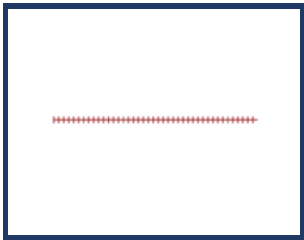
LEVEE

retained as

   SO_0382

Scale Applicability Info:
   Applicable to 1:250,000 scale and larger.

Label Info:
   Label as necessary for clarity.
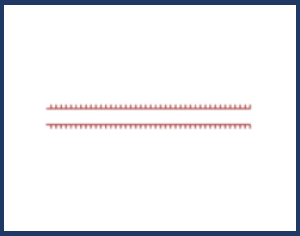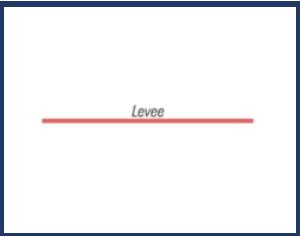
Related DGIF Elements

PO_1774   EmbankmentL

Tech Report: STANAG 3675 to DGIWG Portrayal

STANAG 3675 Feature Types and Portrayal	Related DGIWG Portrayal Elements

325b   RELIEF

LEVEE

retained as

SO_0382

Scale Applicability Info:
Applicable to 1:250,000 scale and larger.

Label Info:
Label as necessary for clarity.

Related DGIF Elements

PO_1774   EmbankmentL

STANAG 3675 Feature Types and Portrayal	Related DGIWG Portrayal Elements

325c   RELIEF

LEVEE

not used

Scale Applicability Info:
Applicable to aeronautical charts at 1:500,000 scale and smaller.

Label Info:
Label as necessary for clarity.

Remarks and Notes:
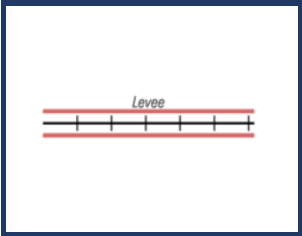Optional colour is black for aeronautical charts at 1:500,000 scale and smaller.

Tech Report: STANAG 3675 to DGIWG Portrayal

STANAG 3675 Feature Types and Portrayal	Related DGIWG Portrayal Elements

325d RELIEF

LEVEE
  With road

retained as

SO_0381

Scale Applicability Info:
  Applicable to 1:250,000 scale and larger.

Label Info:
  Label as necessary for clarity.

Related DGIF Elements

PO_1776   EmbankmentWithTransportationL

STANAG 3675 Feature Types and Portrayal	Related DGIWG Portrayal Elements

325e RELIEF

LEVEE
  With road

not used

Scale Applicability Info:
  Applicable to aeronautical charts at 1:500,000 scale and smaller.

Label Info:
  Label as necessary for clarity.

Remarks and Notes:
  Optional colour is black for aeronautical charts at 1:500,000 scale and smaller.

Tech Report: STANAG 3675 to DGIWG Portrayal

STANAG 3675 Feature Types and Portrayal	Related DGIWG Portrayal Elements

325f   RELIEF

LEVEE

With railroad

retained as

SO_0381

Scale Applicability Info:

Applicable to 1:250,000 scale and larger.

Label Info:

Label as necessary for clarity.

Related DGIF Elements

PO_1776   EmbankmentWithTransportationL

STANAG 3675 Feature Types and Portrayal	Related DGIWG Portrayal Elements

325g   RELIEF

LEVEE

With railroad

retained as

SO_0381

Scale Applicability Info:

Applicable to aeronautical charts at 1:500,000 scale and smaller.

Label Info:

Label as necessary for clarity.

Remarks and Notes:

Optional colour is black for aeronautical charts at 1:500,000 scale and smaller.

Related DGIF Elements

PO_1776   EmbankmentWithTransportationL

Tech Report: STANAG 3675 to DGIWG Portrayal

STANAG 3675 Feature Types and Portrayal	Related DGIWG Portrayal Elements

326a   RELIEF

MINE
   Active

Scale Applicability Info:
   Applicable to all scales.

Label Info:
   Label with product when known.

retained as

   SO_0088

Related DGIF Elements

PO_0336   ExtractionMineNotPeatP

STANAG 3675 Feature Types and Portrayal	Related DGIWG Portrayal Elements

326b   RELIEF

MINE
   Inactive

Scale Applicability Info:
   Applicable to all scales.

Label Info:
   Label with product when known.

retained as

   SO_0089

Related DGIF Elements

PO_0337   ExtractionMineNotPeatNotIntactP

Tech Report: STANAG 3675 to DGIWG Portrayal

STANAG 3675 Feature Types and Portrayal	Related DGIWG Portrayal Elements

326c   RELIEF

MINE

Open pit, strip
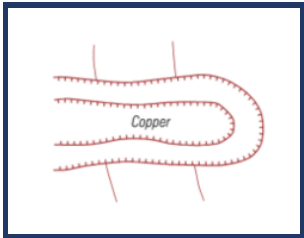
retained as

SO_0086   and   SO_0371

Scale Applicability Info:

Applicable to 1:100,000 scale and larger.

Label Info:

Label with product when known.

STANAG 3675 Feature Types and Portrayal	Related DGIWG Portrayal Elements

326d1   RELIEF

MINE

Tailings, mine dump

retained as

SO_0086   and   SO_0372

Scale Applicability Info:

Applicable to all scales.

Remarks and Notes:

Optional colour is black for aeronautical charts at 1:1,000,000 scale and smaller. Use symbol 902 for aeronautical charts at 1:500,000 and smaller if unable to draw to scale.

Tech Report: STANAG 3675 to DGIWG Portrayal

STANAG 3675 Feature Types and Portrayal	Related DGIWG Portrayal Elements

326d2   RELIEF

MINE

  Tailings, mine dump

retained as

    SO_0372

Scale Applicability Info:

  Applicable to all scales.

Remarks and Notes:

  Optional colour is black for aeronautical charts at 1:1,000,000
scale and smaller. Use symbol 902 for aeronautical charts at
1:500,000 and smaller if unable to draw to scale.

STANAG 3675 Feature Types and Portrayal	Related DGIWG Portrayal Elements

326d3   RELIEF

MINE

  Tailings, mine dump

retained as

    SO_0372

Scale Applicability Info:

  Applicable to all scales.

Remarks and Notes:

  Optional colour is black for aeronautical charts at 1:1,000,000
scale and smaller. Use symbol 902 for aeronautical charts at
1:500,000 and smaller if unable to draw to scale.

Tech Report: STANAG 3675 to DGIWG Portrayal

STANAG 3675 Feature Types and Portrayal	Related DGIWG Portrayal Elements

327a   RELIEF

QUARRY
Active

Scale Applicability Info:
  Applicable to all scales.

Label Info:
  Label with product when known.

Remarks and Notes:
  May be used with symbol 903.

retained as

  SO_0088

Related DGIF Elements

PO_0354   QuarryIntactP

STANAG 3675 Feature Types and Portrayal	Related DGIWG Portrayal Elements

327b   RELIEF

QUARRY
Inactive

Scale Applicability Info:
  Applicable to all scales.

Label Info:
  Label with product when known.

Remarks and Notes:
  May be used with symbol 903.

retained as

  SO_0089

Related DGIF Elements

PO_0355   QuarryNotIntactP

Tech Report: STANAG 3675 to DGIWG Portrayal

STANAG 3675 Feature Types and Portrayal	Related DGIWG Portrayal Elements

327c   RELIEF

not used

QUARRY

   Open pit, strip
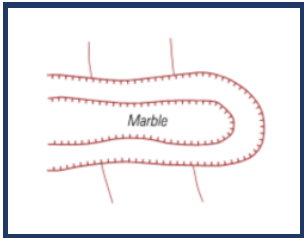
Scale Applicability Info:

   Applicable to 1:100,000 scale and larger.

Label Info:

   Label with product when known.

STANAG 3675 Feature Types and Portrayal	Related DGIWG Portrayal Elements

401a   VEGETATION

not used

TREES (WOODED AREAS)

   Tint / Solid

Scale Applicability Info:

   Applicable to aeronautical charts at 1:500,000 for the
representation of vegetation (including orchards and vineyards).

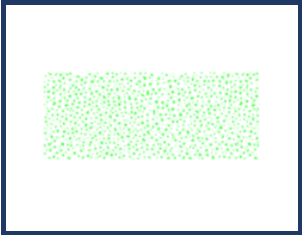---

Tech Report: STANAG 3675 to DGIWG Portrayal

STANAG 3675 Feature Types and Portrayal	Related DGIWG Portrayal Elements

401b   VEGETATION

TREES (WOODED AREAS)
   Tint / Screened

Scale Applicability Info:
   Applicable to 1:250,000 scale and larger.

retained as

   SO_0038

Related DGIF Elements

PO_2436   ForestWoodA

STANAG 3675 Feature Types and Portrayal	Related DGIWG Portrayal Elements

401c   VEGETATION

TREES (WOODED AREAS)
   Irregular area pattern
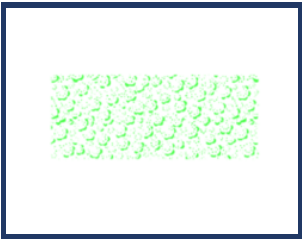
Scale Applicability Info:
   Applicable to aeronautical charts at 1:1,000,000 scale for the
   representation of vegetation (including orchards and vineyards).

replaced by

   SO_0038
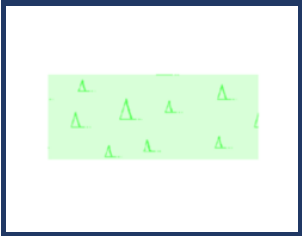
Related DGIF Elements
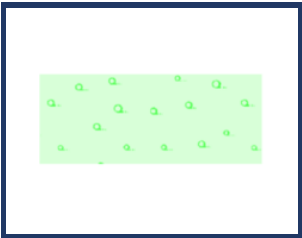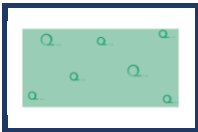
PO_2440   ForestWoodScatteredA

PO_2441   ForestWoodUnknownA

Tech Report: STANAG 3675 to DGIWG Portrayal
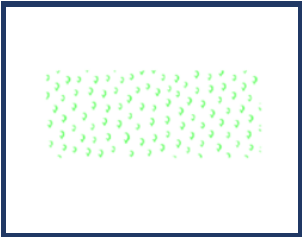
STANAG 3675 Feature Types and Portrayal	Related DGIWG Portrayal Elements

401d   VEGETATION

TREES (WOODED AREAS)
   Evergreen (non-deciduous) forest

Scale Applicability Info:
   Applicable to 1:100,000 scale and larger.

retained as

   SO_0040

Related DGIF Elements

PO_2438   ForestWoodEvergreenA

STANAG 3675 Feature Types and Portrayal	Related DGIWG Portrayal Elements

401e   VEGETATION

TREES (WOODED AREAS)
   Deciduous forest

Scale Applicability Info:
   Applicable to 1:100,000 scale and larger.

retained as

   SO_0039

Related DGIF Elements

PO_2437   ForestWoodDeciduousA

Tech Report: STANAG 3675 to DGIWG Portrayal
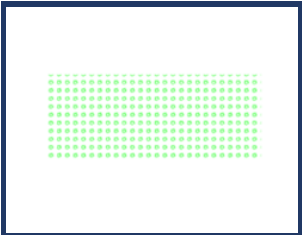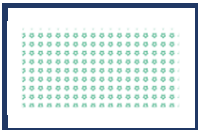
STANAG 3675 Feature Types and Portrayal	Related DGIWG Portrayal Elements

401f   VEGETATION

TREES (WOODED AREAS)
Mixed forest

Scale Applicability Info:
   Applicable to 1:100,000 scale and larger.

retained as

   SO_0041

Related DGIF Elements

PO_2439   ForestWoodMixedA

STANAG 3675 Feature Types and Portrayal	Related DGIWG Portrayal Elements

402   VEGETATION

SCATTERED TREES

Scale Applicability Info:
   Applicable to 1:250,000 scale and larger.

retained as

   SO_0042

Related DGIF Elements

PO_2440   ForestWoodScatteredA

Tech Report: STANAG 3675 to DGIWG Portrayal

STANAG 3675 Feature Types and Portrayal	Related DGIWG Portrayal Elements

403 VEGETATION

SCRUB / BRUSH

Scale Applicability Info:
Applicable to 1:100,000 scale and larger.

retained as

SO_0048

Related DGIF Elements

PO_2421   BrushA

STANAG 3675 Feature Types and Portrayal	Related DGIWG Portrayal Elements

404 VEGETATION

ORCHARD, PLANTATION

Scale Applicability Info:
Applicable to 1:250,000 scale and larger.

retained as

SO_0031

Related DGIF Elements

PO_0149   PlantationOrchardA

Tech Report: STANAG 3675 to DGIWG Portrayal

STANAG 3675 Feature Types and Portrayal	Related DGIWG Portrayal Elements

405   VEGETATION

VINEYARD, HOPS
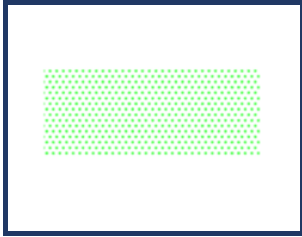
retained as

SO_0034

Scale Applicability Info:

Applicable to 1:250,000 scale and larger.

Label Info:

Label as appropriate.

Remarks and Notes:

Use symbol 401 for aeronautical charts at 1:500,000 and 1,000,000 scales.

Related DGIF Elements

PO_0153   PlantationVineyardA

STANAG 3675 Feature Types and Portrayal	Related DGIWG Portrayal Elements

406   VEGETATION

TROPICAL GRASS
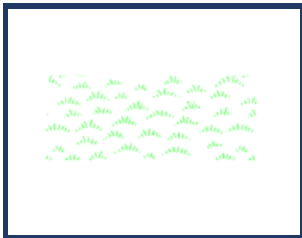
retained as

SO_0050

Scale Applicability Info:

Applicable to 1:250,000 scale and larger.

Label Info:

Label as appropriate.

Remarks and Notes:

Use symbol 401 for aeronautical charts at 1:500,000 and 1,000,000 scales.

Related DGIF Elements

PO_2424   GrasslandTropicalA

Tech Report: STANAG 3675 to DGIWG Portrayal

STANAG 3675 Feature Types and Portrayal	Related DGIWG Portrayal Elements

407a　　　　　　　　　　　　　　　VEGETATION

TUNDRA

Scale Applicability Info:
　Applicable to all scales.

Label Info:
　Label only

retained as

　SO_0747

Note:　　　　　　Label Only

STANAG 3675 Feature Types and Portrayal	Related DGIWG Portrayal Elements

407b　　　　　　　　　　　　　　　VEGETATION

TUNDRA

Scale Applicability Info:
　Applicable to all scales.

Remarks and Notes:
　Can combine text with area pattern.

replaced by label

Related DGIF Elements

PO_2426　　TundraA

Tech Report: STANAG 3675 to DGIWG Portrayal

STANAG 3675 Feature Types and Portrayal	Related DGIWG Portrayal Elements

408   VEGETATION

HEDGEROW

replaced by

SO_0181

Scale Applicability Info:

  Applicable to 1:100,000 scale and larger.

Related DGIF Elements

PO_0146   HedgerowL

STANAG 3675 Feature Types and Portrayal	Related DGIWG Portrayal Elements

409   VEGETATION

ISOLATED TREE

replaced by

SO_0044

Scale Applicability Info:

  Applicable to 1:100,000 scale and larger.

Remarks and Notes:

  Optional colour is black.

Related DGIF Elements

PO_2445   TreeP

Tech Report: STANAG 3675 to DGIWG Portrayal

STANAG 3675 Feature Types and Portrayal	Related DGIWG Portrayal Elements

410a   VEGETATION

OASIS

Pictorial symbol
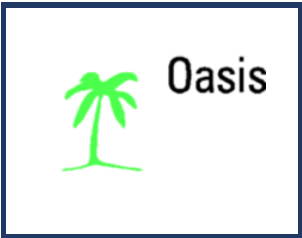
Scale Applicability Info:

Applicable to all scales.

Remarks and Notes:

Use this symbol if oasis is characterized by palm trees.

replaced by

SO_0350

Related DGIF Elements

PO_1719   OasisP

STANAG 3675 Feature Types and Portrayal	Related DGIWG Portrayal Elements

410b   VEGETATION

OASIS

Point symbol

Scale Applicability Info:

Applicable to all scales.

retained as

SO_0607
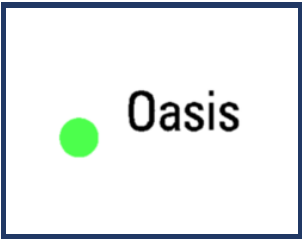
Related DGIF Elements

PO_1719   OasisP

Tech Report: STANAG 3675 to DGIWG Portrayal

STANAG 3675 Feature Types and Portrayal	Related DGIWG Portrayal Elements

501a   **TRANSPORTATION**

DIVIDED ROADS WITH MEDIAN OR BARRIER

retained as

SO_0268

Scale Applicability Info:

Applicable to topographical land maps at 1:500,000 scale and larger .

Label Info:

Label as necessary for clarity.

Related DGIF Elements

PO_2273   RoadDividedVeryWideMedianIntactL

STANAG 3675 Feature Types and Portrayal	Related DGIWG Portrayal Elements

501b   **TRANSPORTATION**

DIVIDED ROADS WITH MEDIAN OR BARRIER

retained as

SO_0271

Scale Applicability Info:

Applicable to topographical land maps at 1:500,000 scale and larger .

Label Info:

Label as necessary for clarity.

Related DGIF Elements

PO_2290   RoadDividedWideMedianIntactL

Tech Report: STANAG 3675 to DGIWG Portrayal

STANAG 3675 Feature Types and Portrayal	Related DGIWG Portrayal Elements

501c   TRANSPORTATION

DIVIDED ROADS WITH MEDIAN OR BARRIER

retained as

SO_0268

Scale Applicability Info:

Applicable to aeronautical charts at 1:500,000 and 1:1,000,000 scales and topographical land maps at 1:1,000,000 scale.

Label Info:

Label as necessary for clarity.

STANAG 3675 Feature Types and Portrayal	Related DGIWG Portrayal Elements

502a   TRANSPORTATION

ALL WEATHER, HARD SURFACE ROADS
   Four or more lanes wide (no median or barrier)

retained as

SO_0261

4 LANES

Scale Applicability Info:

Applicable to 1:250,000 scale and larger.

Label Info:

Label as necessary for clarity.

Remarks and Notes:

See text regarding use of national symbols.
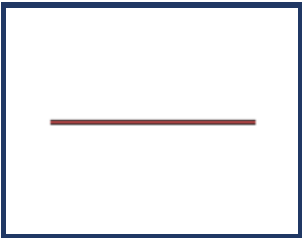
Related DGIF Elements

PO_2278   RoadAllWeatherHardSurfaceNoMedianGreaterThanOrEqualToFourLanesIntactL

Tech Report: STANAG 3675 to DGIWG Portrayal

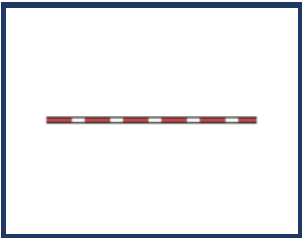| STANAG 3675 Feature Types and Portrayal	Related DGIWG Portrayal Elements

502b   TRANSPORTATION

ALL WEATHER, HARD SURFACE ROADS
  Two or three lanes wide

retained as

  SO_0258

3 LANES

Scale Applicability Info:
  Applicable to 1:250,000 scale and larger.
Label Info:
  Label as necessary for clarity.
Remarks and Notes:
  See text regarding use of national symbols.

Related DGIF Elements

PO_2277   RoadAllWeatherHardSurfaceNoMedianTwoOrThreeLanesIntactL

| STANAG 3675 Feature Types and Portrayal	Related DGIWG Portrayal Elements

502c   TRANSPORTATION

ALL WEATHER, HARD SURFACE ROADS
  One lane wide

retained as

  SO_0265

Scale Applicability Info:
  Applicable to 1:250,000 scale and larger.
Label Info:
  Label as necessary for clarity.
Remarks and Notes:
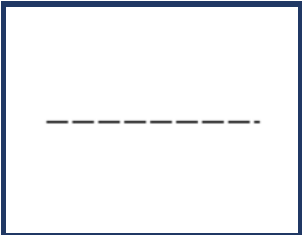 See text regarding use of national symbols.

Related DGIF Elements

PO_2269   RoadAllWeatherHardSurfaceNoMedianOneLaneIntactL

Tech Report: STANAG 3675 to DGIWG Portrayal

STANAG 3675 Feature Types and Portrayal	Related DGIWG Portrayal Elements

503a   TRANSPORTATION

ALL WEATHER, LOOSE OR LIGHT SURFACE ROADS
  Two or more lanes wide

retained as

  SO_0270

Scale Applicability Info:
  Applicable to 1:250,000 scale and larger.

Label Info:
  Label as necessary for clarity.

Remarks and Notes:
  See text regarding use of national symbols.

Related DGIF Elements

PO_2284   RoadAllWeatherLooseSurfaceNoMedianTwoOrThreeLanesPrimaryIntactL

STANAG 3675 Feature Types and Portrayal	Related DGIWG Portrayal Elements

503b   TRANSPORTATION

ALL WEATHER, LOOSE OR LIGHT SURFACE ROADS
  One lane wide
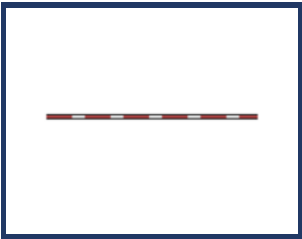
retained as

  SO_0269

Scale Applicability Info:
  Applicable to 1:250,000 scale and larger.

Label Info:
  Label as necessary for clarity.

Remarks and Notes:
  See text regarding use of national symbols.

Related DGIF Elements

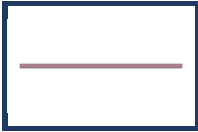PO_2282   RoadAllWeatherLooseSurfaceNoMedianOneLanePrimaryIntactL

STANAG 3675 Feature Types and Portrayal	Related DGIWG Portrayal Elements

504   TRANSPORTATION

retained as

FAIR OR DRY WEATHER, LOOSE SURFACE ROADS

SO_0255

Scale Applicability Info:

    Applicable to 1:250,000 scale and larger.

Remarks and Notes:

    See text regarding use of national symbols.

STANAG 3675 Feature Types and Portrayal	Related DGIWG Portrayal Elements

505   TRANSPORTATION

retained as

CART TRACK

SO_0192

Scale Applicability Info:

    Applicable to 1:250,000 scale and larger.

Related DGIF Elements

PO_2129   CartTrackL

Tech Report: STANAG 3675 to DGIWG Portrayal

STANAG 3675 Feature Types and Portrayal	Related DGIWG Portrayal Elements

506   **TRANSPORTATION**

TRAIL, FOOTPATH

retained as

SO_0191

Scale Applicability Info:

  Applicable to 1:250,000 scale and larger.

Related DGIF Elements

PO_1956   TrailL

STANAG 3675 Feature Types and Portrayal	Related DGIWG Portrayal Elements

507   **TRANSPORTATION**

PRIMARY ROAD

retained as

SO_0258

Scale Applicability Info:

  Applicable to 1:500,000 and 1:1,000,000 scale.

Label Info:

  Label with number of lanes if more than two.

Related DGIF Elements

PO_2344   RoadAllWeatherHardSurfaceNoMedianTwoLanesPrimaryIntactL

Tech Report: STANAG 3675 to DGIWG Portrayal

STANAG 3675 Feature Types and Portrayal	Related DGIWG Portrayal Elements

508 TRANSPORTATION

SECONDARY ROAD

retained as

SO_0266

Scale Applicability Info:

Applicable to 1:500,000 and 1:1,000,000 scale.

Related DGIF Elements

PO_2339   RoadAllWeatherHardSurfaceNoMedianTwoLanesSecondaryIntactL

STANAG 3675 Feature Types and Portrayal	Related DGIWG Portrayal Elements

509 TRANSPORTATION

ROAD (MAINTAINED FOR AUTOMOBILE TRAFFIC)

retained as

SO_0265

Scale Applicability Info:

Applicable to aeronautical charts at 1:2,000,000 scale.

Related DGIF Elements

PO_2256   RoadL

Tech Report: STANAG 3675 to DGIWG Portrayal

STANAG 3675 Feature Types and Portrayal	Related DGIWG Portrayal Elements

510a   TRANSPORTATION

ROAD UNDER CONSTRUCTION

replaced by

SO_0256

Scale Applicability Info:
Applicable to 1:250,000 scale and larger.

Label Info:
Label as necessary for clarity (ex. CONSTRUCTION).

Related DGIF Elements

PO_2292   RoadMedianConstructionNotIntactL

STANAG 3675 Feature Types and Portrayal	Related DGIWG Portrayal Elements

510b   TRANSPORTATION

ROAD UNDER CONSTRUCTION

not used

Scale Applicability Info:
Applicable to aeronautical charts at 1:500,000 scale and smaller.

Label Info:
Label as necessary for clarity (ex. CONSTRUCTION).

Remarks and Notes:
Optional colour is black for aeronautical charts at 1:2,000,000 scale.

Tech Report: STANAG 3675 to DGIWG Portrayal

STANAG 3675 Feature Types and Portrayal	Related DGIWG Portrayal Elements

511a   TRANSPORTATION

INTERCHANGE

   To scale
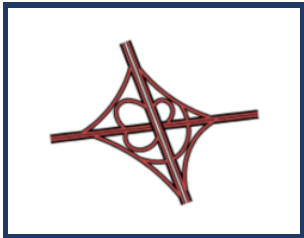
Scale Applicability Info:

   Applicable to 1:500,000 scale and larger.

not used

STANAG 3675 Feature Types and Portrayal	Related DGIWG Portrayal Elements

511b   TRANSPORTATION

INTERCHANGE

   Point symbol

Scale Applicability Info:

   Applicable to 1:500,000 and 1:1,000,000 scale.

replaced by
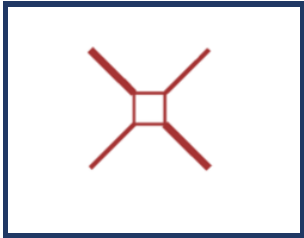
   SO_0748

Related DGIF Elements

PO_2365   RoadInterchangeP

Tech Report: STANAG 3675 to DGIWG Portrayal

STANAG 3675 Feature Types and Portrayal	Related DGIWG Portrayal Elements

512a   TRANSPORTATION

ROUTE MARKER
International

retained as

SO_0333

Scale Applicability Info:
Applicable to all scales.

Label Info:
When a national numbering or marking system exist the national mapping authority will decide how to show information. Route numbers may be added along road symbols without the use of route marker symbols.

Related DGIF Elements

PO_1640   RoadRouteMarkerInternationalP

STANAG 3675 Feature Types and Portrayal	Related DGIWG Portrayal Elements

512b   TRANSPORTATION

ROUTE MARKER
National (Federal)
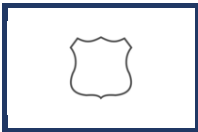
retained as

SO_0336

Scale Applicability Info:
Applicable to all scales.

Label Info:
When a national numbering or marking system exist the national mapping authority will decide how to show information. Route numbers may be added along road symbols without the use of route marker symbols.

Related DGIF Elements

PO_1643   RoadRouteMarkerNationalMotorwayP

Tech Report: STANAG 3675 to DGIWG Portrayal

STANAG 3675 Feature Types and Portrayal	Related DGIWG Portrayal Elements

512c   **TRANSPORTATION**

ROUTE MARKER
   Secondary (State)
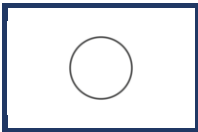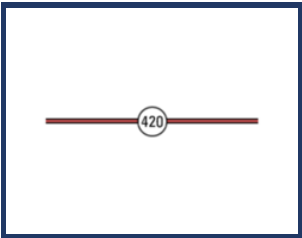
retained as
   SO_0334

Scale Applicability Info:

Applicable to all scales.

Label Info:

When a national numbering or marking system exist the national mapping authority will decide how to show information. Route numbers may be added along road symbols without the use of route marker symbols.

Related DGIF Elements

PO_1644   RoadRouteMarkerNationalUSAP

STANAG 3675 Feature Types and Portrayal	Related DGIWG Portrayal Elements

513a   **TRANSPORTATION**
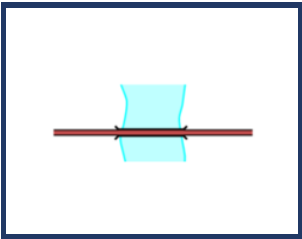
BRIDGE
   Road / applicable to 1:250,000 and larger

retained as
   SO_0068

Scale Applicability Info:

Applicable to 1:250,000 scale and larger.

Remarks and Notes:
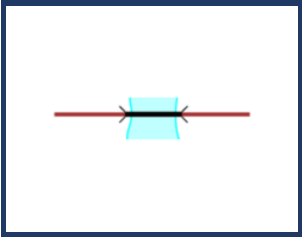
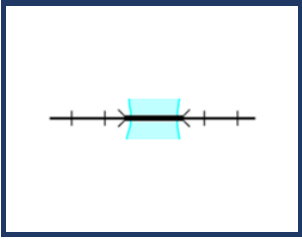Wingticks may be eliminated if space does not permit their inclusion.
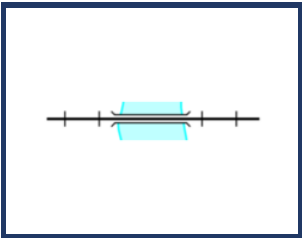
Related DGIF Elements

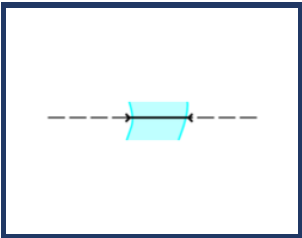PO_2373   BridgeIntactL

Tech Report: STANAG 3675 to DGIWG Portrayal

STANAG 3675 Feature Types and Portrayal	Related DGIWG Portrayal Elements

513b   TRANSPORTATION

BRIDGE

Road / applicable to 1:500,000 and smaller

retained as

SO_0070

Scale Applicability Info:

Applicable to 1:500,000 scale and smaller.

Remarks and Notes:

Wingticks may be eliminated if space does not permit their inclusion.

- -

STANAG 3675 Feature Types and Portrayal	Related DGIWG Portrayal Elements

513c   TRANSPORTATION

BRIDGE

Railroad / applicable to 1:250,000 and larger

retained as

SO_0068

Scale Applicability Info:

Applicable to 1:250,000 scale and larger.

Remarks and Notes:

Wingticks may be eliminated if space does not permit their inclusion.

- -

Tech Report: STANAG 3675 to DGIWG Portrayal
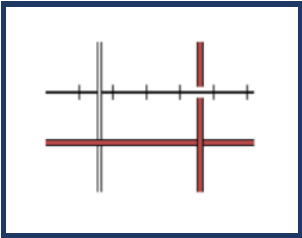
STANAG 3675 Feature Types and Portrayal	Related DGIWG Portrayal Elements

513d   TRANSPORTATION

BRIDGE
   Railroad / applicable to 1:500,000 and smaller

retained as

   SO_0070

Scale Applicability Info:
   Applicable to 1:500,000 scale and smaller.

Remarks and Notes:
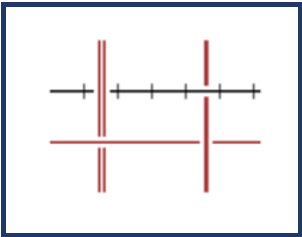   Wingticks may be eliminated if space does not permit their inclusion.

STANAG 3675 Feature Types and Portrayal	Related DGIWG Portrayal Elements

513e   TRANSPORTATION

BRIDGE
   Foobridge

replaced by

   SO_0070

Scale Applicability Info:
   Applicable to 1:250,000 scale and larger.

Remarks and Notes:
   Wingticks may be eliminated if space does not permit their inclusion.
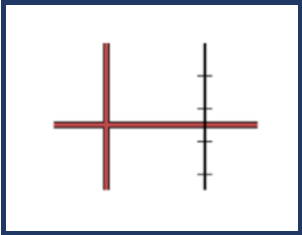
Related DGIF Elements

PO_2381   BridgePedestrianIntactL

Tech Report: STANAG 3675 to DGIWG Portrayal
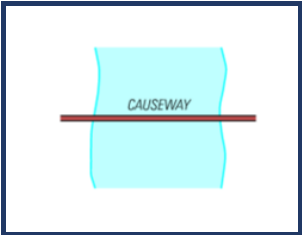
STANAG 3675 Feature Types and Portrayal	Related DGIWG Portrayal Elements

514a TRANSPORTATION

OVERPASS AND UNDERPASS

retained as

SO_0068   or   SO_0070

Scale Applicability Info:
  Applicable to 1:250,000 scale and larger.

Remarks and Notes:
  Use symbol 513 as necessary for clarity.

STANAG 3675 Feature Types and Portrayal	Related DGIWG Portrayal Elements

514b TRANSPORTATION

OVERPASS AND UNDERPASS

retained as

SO_0068   or   SO_0070

Scale Applicability Info:
  Applicable to 1:500,000 scale and smaller.

Remarks and Notes:
  Use symbol 513 as necessary for clarity.

STANAG 3675 Feature Types and Portrayal	Related DGIWG Portrayal Elements

515 TRANSPORTATION

LEVEL / GRADE CROSSING

Scale Applicability Info:
  Applicable to all scales.

not used

Related DGIF Elements

PO_2636   CrossingRailwayP

STANAG 3675 Feature Types and Portrayal	Related DGIWG Portrayal Elements

516 TRANSPORTATION

CAUSEWAY

Scale Applicability Info:
  Applicable to all scales.

retained as

  SO_0175

Related DGIF Elements

PO_2398   CausewayStructureL

Tech Report: STANAG 3675 to DGIWG Portrayal

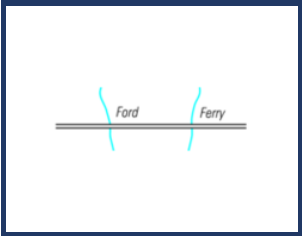| STANAG 3675 Feature Types and Portrayal	Related DGIWG Portrayal Elements

517a   **TRANSPORTATION**

FERRY, FERRY SLIP, FORD

  Ferry

Scale Applicability Info:

  Applicable to all scales.

Label Info:

  Label appropriately (Ferry).

retained as

   SO_0190

Related DGIF Elements

PO_1940   FerryCrossingL

STANAG 3675 Feature Types and Portrayal	Related DGIWG Portrayal Elements

517b   **TRANSPORTATION**

FERRY, FERRY SLIP, FORD
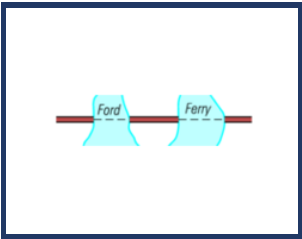
  Ford

Scale Applicability Info:

  Applicable to all scales.

Label Info:

  Label appropriately (Ford).

replaced by label

Related DGIF Elements

PO_2133   FordP

Tech Report: STANAG 3675 to DGIWG Portrayal

STANAG 3675 Feature Types and Portrayal	Related DGIWG Portrayal Elements

517c   TRANSPORTATION

FERRY, FERRY SLIP, FORD
  Ferry slip

retained as

  SO_0114

Scale Applicability Info:
  Applicable to all scales.

Related DGIF Elements

Label Info:
  Label appropriately (Ferry slip).

PO_1880   SlipwayA

STANAG 3675 Feature Types and Portrayal	Related DGIWG Portrayal Elements

517d   TRANSPORTATION

FERRY, FERRY SLIP, FORD
  Ford

replaced by label

Scale Applicability Info:
  Applicable to all scales.

Related DGIF Elements

Label Info:
  Label appropriately (Ford).

PO_2133   FordP

Tech Report: STANAG 3675 to DGIWG Portrayal

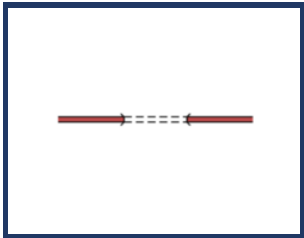| STANAG 3675 Feature Types and Portrayal	Related DGIWG Portrayal Elements
518a TRANSPORTATION	**retained as**

TUNNEL

  On road

SO_0072

Scale Applicability Info:

  Applicable to all scales.

Related DGIF Elements

PO_2416   TunnelRoadRunwayTaxiwayL

Remarks and Notes:

  See symbol 110 for aqueduct in tunnel (traverable and non-traverable). Dashed line is optional.

STANAG 3675 Feature Types and Portrayal	Related DGIWG Portrayal Elements
518b TRANSPORTATION	**retained as**

TUNNEL

  On railway

SO_0071
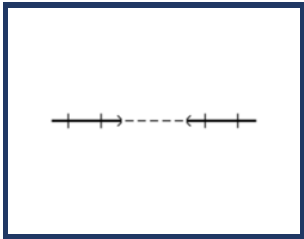
Scale Applicability Info:

  Applicable to all scales.

Related DGIF Elements

PO_2414   TunnelRailwayIntactL

Remarks and Notes:

  See symbol 110 for aqueduct in tunnel (traverable and non-traverable. Dashed line is optional.

Tech Report: STANAG 3675 to DGIWG Portrayal

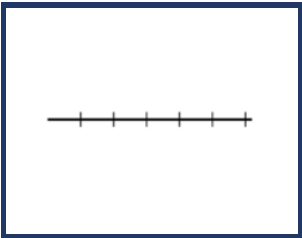| STANAG 3675 Feature Types and Portrayal	Related DGIWG Portrayal Elements

519a   TRANSPORTATION

RAILROAD (NORMAL GAUGE)
  Single track

retained as

SO_0201

Scale Applicability Info:
  Applicable to all scales.

Label Info:
  Show electrified railroad by labeling or unique symbolization explained in the product legend.

Related DGIF Elements

PO_2007   RailwayBroadStandardNonElectrifiedSingleIntactL

STANAG 3675 Feature Types and Portrayal	Related DGIWG Portrayal Elements

519b   TRANSPORTATION

RAILROAD (NORMAL GAUGE)
  Multiple track
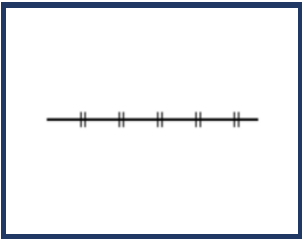
retained as

SO_0207

Scale Applicability Info:
  Applicable to all scales.

Label Info:
  Show electrified railroad by labeling or unique symbolization explained in the product legend.

Related DGIF Elements

PO_2005   RailwayBroadStandardNonElectrifiedMultipleIntactL

Tech Report: STANAG 3675 to DGIWG Portrayal

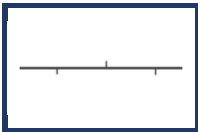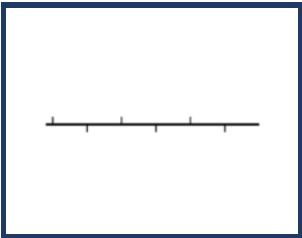| STANAG 3675 Feature Types and Portrayal	Related DGIWG Portrayal Elements

520a   **TRANSPORTATION**

RAILROAD (NORMAL GAUGE)
  Single track

retained as

    SO_0214

Scale Applicability Info:
  Applicable to 1:250,000 scale and larger.

Label Info:
  Show electrified railroad by labeling or unique symbolization explained in the product legend.

Related DGIF Elements

PO_2011   RailwayNarrowNonElectrifiedSingleIntactL

STANAG 3675 Feature Types and Portrayal	Related DGIWG Portrayal Elements

520b   **TRANSPORTATION**

RAILROAD (NARROW GAUGE)
  Multiple track

retained as

    SO_0213

Scale Applicability Info:
  Applicable to 1:250,000 scale and larger.

Label Info:
  Show electrified railroad by labeling or unique symbolization explained in the product legend.
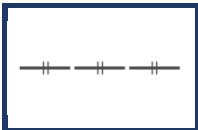
Related DGIF Elements

PO_2010   RailwayNarrowNonElectrifiedMultipleIntactL

Tech Report: STANAG 3675 to DGIWG Portrayal
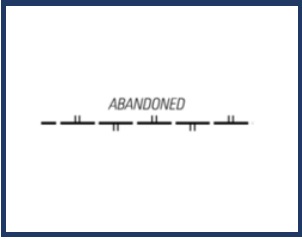
STANAG 3675 Feature Types and Portrayal	Related DGIWG Portrayal Elements

521a TRANSPORTATION

RAILROAD (NON-OPERATING)
  Normal Gauge / Single track

retained as

  SO_0205

Scale Applicability Info:
  Applicable to all scales.

Label Info:
  Label appropriately (ex. ABANDONED, DESTROYED, CONSTRUCTION etc.).

Related DGIF Elements

PO_2012 RailwayBroadStandardNonElectrifiedNotIntactL

STANAG 3675 Feature Types and Portrayal	Related DGIWG Portrayal Elements

521b TRANSPORTATION

RAILROAD (NON-OPERATING)
  Normal Gauge / Multiple track

retained as

  SO_0208

Scale Applicability Info:
  Applicable to all scales.

Label Info:
  Label appropriately (ex. ABANDONED, DESTROYED, CONSTRUCTION etc.).

Related DGIF Elements

PO_2048 RailwayStandardNonElectrifiedNotIntactL

Tech Report: STANAG 3675 to DGIWG Portrayal

STANAG 3675 Feature Types and Portrayal	Related DGIWG Portrayal Elements

521c   TRANSPORTATION

RAILROAD (NON-OPERATING)
   Narrow Gauge / Single track

retained as

    SO_0218

Scale Applicability Info:
   Applicable to 1:250,000 scale and larger.

Label Info:
   Label appropriately (ex. ABANDONED, DESTROYED, CONSTRUCTION etc.).

Related DGIF Elements

PO_2017   RailwayNarrowNonElectrifiedNotIntactL

STANAG 3675 Feature Types and Portrayal	Related DGIWG Portrayal Elements

521d   TRANSPORTATION

RAILROAD (NON-OPERATING)
   Narrow Gauge / Multiple track

retained as

    SO_0221

Scale Applicability Info:
   Applicable to 1:250,000 scale and larger.

Label Info:
   Label appropriately (ex. ABANDONED, DESTROYED, CONSTRUCTION etc.).

Related DGIF Elements

PO_2010   RailwayNarrowNonElectrifiedMultipleIntactL

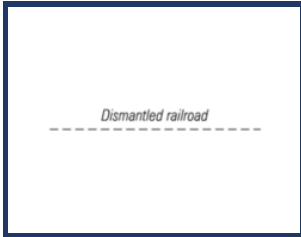# Tech Report: STANAG 3675 to DGIWG Portrayal

STANAG 3675 Feature Types and Portrayal	Related DGIWG Portrayal Elements

522   TRANSPORTATION

DISMANTLED RAILROAD

Scale Applicability Info:

   Applicable to all scales.

Label Info:

   Label Appropriately (ex. Dismanteled railroad).

retained as

   SO_0209

Related DGIF Elements

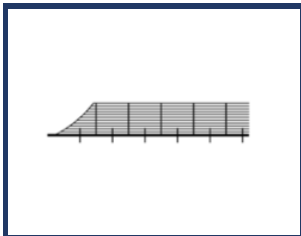PO_2003   RailwayDismantledDestroyedL

STANAG 3675 Feature Types and Portrayal	Related DGIWG Portrayal Elements

523   TRANSPORTATION

RAILROAD YARD / MARSHALLING YARD

Remarks and Notes:

   Exact outline, scale permitting. See 902 for optional symbol if 1:500,000 or smaller scale.

replaced by

   SO_0057   or   SO_0022

Related DGIF Elements

PO_2087   RailwayYardIntactA

PO_2090   RailwayYardIntactP
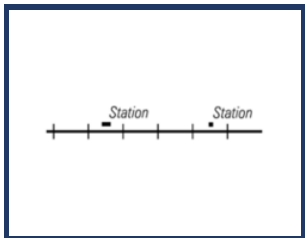
Tech Report: STANAG 3675 to DGIWG Portrayal

STANAG 3675 Feature Types and Portrayal	Related DGIWG Portrayal Elements

524a   TRANSPORTATION

RAILROAD STATION
   Location known

Scale Applicability Info:
   Applicable to all scales.

Label Info:
   Label for clarity (Station).

replaced by

   SO_0147

STANAG 3675 Feature Types and Portrayal	Related DGIWG Portrayal Elements

524b   TRANSPORTATION
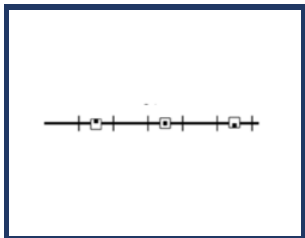
RAILROAD STATION
   Location known

Scale Applicability Info:
   Applicable to all scales.

Label Info:
   Label for clarity (Station).

retained as

   SO_0147

Related DGIF Elements

PO_0615   RailStationNonObstructionIntactP

Tech Report: STANAG 3675 to DGIWG Portrayal

STANAG 3675 Feature Types and Portrayal	Related DGIWG Portrayal Elements

524c   TRANSPORTATION

not used

RAILROAD STATION
   Location known

Scale Applicability Info:
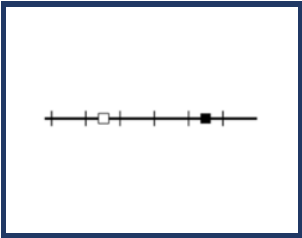   Applicable to all scales.

Label Info:
   Label for clarity (Station).

STANAG 3675 Feature Types and Portrayal	Related DGIWG Portrayal Elements

524d   TRANSPORTATION

not used

RAILROAD STATION
   Location unknown

Scale Applicability Info:
   Applicable to all scales.

Label Info:
   Label for clarity (Station).

Tech Report: STANAG 3675 to DGIWG Portrayal

STANAG 3675 Feature Types and Portrayal	Related DGIWG Portrayal Elements

525a   **TRANSPORTATION**

retained as

AERIAL CABLEWAY AND SKI LIFT LINES
   Aerial cableway

SO_0189

Scale Applicability Info:
   Applicable to all scales.

Related DGIF Elements

Label Info:
   Label as necessary for clarity.

PO_0907   CablewayNonObstructionL

Remarks and Notes:
   May be used with symbol 720 if linear obstruction.

STANAG 3675 Feature Types and Portrayal	Related DGIWG Portrayal Elements

525b   **TRANSPORTATION**

not used

AERIAL CABLEWAY AND SKI LIFT LINES
   Aerial cableway

Scale Applicability Info:
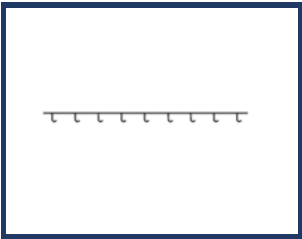   Applicable to all scales.

Label Info:
   Label as necessary for clarity.

Remarks and Notes:
   May be used with symbol 720 if linear obstruction.

STANAG 3675 Feature Types and Portrayal	Related DGIWG Portrayal Elements

525c   TRANSPORTATION

AERIAL CABLEWAY AND SKI LIFT LINES
   Ski lift

retained as

   SO_0189

Scale Applicability Info:
   Applicable to all scales.

Label Info:
   Label as necessary for clarity.

Remarks and Notes:
   May be used with symbol 720 if linear obstruction.

STANAG 3675 Feature Types and Portrayal	Related DGIWG Portrayal Elements

525d   TRANSPORTATION

AERIAL CABLEWAY AND SKI LIFT LINES
   Ski lift

not used

Scale Applicability Info:
   Applicable to all scales.

Label Info:
   Label appropriately.

Related DGIF Elements

PO_8041   CablewaySkiLiftRecreationalNonObstructionL

Tech Report: STANAG 3675 to DGIWG Portrayal
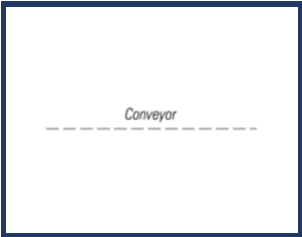
STANAG 3675 Feature Types and Portrayal	Related DGIWG Portrayal Elements

526   **TRANSPORTATION**

CONVEYOR

retained as

SO_0189

Scale Applicability Info:

Applicable to all scales.

Label Info:

Label appropriately (Conveyor)

Related DGIF Elements

PO_0914   ConveyorNonObstructionP
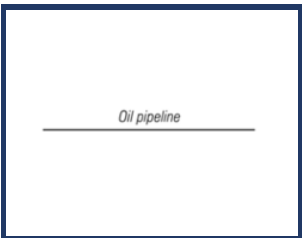

STANAG 3675 Feature Types and Portrayal	Related DGIWG Portrayal Elements

527a   **TRANSPORTATION**

PIPELINE (NON WATER)

   Surface

replaced by

SO_0195

Scale Applicability Info:

Applicable to all scales.

Label Info:

Label with product if known (ex. Oil pipeline).

Remarks and Notes:

See symbol 110 for water pipeline.

Related DGIF Elements

PO_1968   PipelineAboveSurfaceNotWaterL

STANAG 3675 Feature Types and Portrayal	Related DGIWG Portrayal Elements

527b   TRANSPORTATION

not used

PIPELINE (NON WATER)
Surface

Scale Applicability Info:
  Applicable to all scales.

Label Info:
  Label with product if known (ex. Oil pipeline).
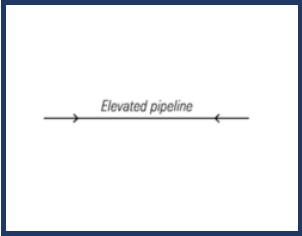
Remarks and Notes:
  See symbol 110 for water pipeline.

- -

STANAG 3675 Feature Types and Portrayal	Related DGIWG Portrayal Elements

527c   TRANSPORTATION

replaced by

    SO_0196

PIPELINE (NON WATER)
Elevated

Related DGIF Elements

PO_1968   PipelineAboveSurfaceNotWaterL

Scale Applicability Info:
  Applicable to all scales.

Label Info:
  Label with product if known (ex. Oil pipeline).

Remarks and Notes:
  See symbol 110 for water pipeline.

- -

Tech Report: STANAG 3675 to DGIWG Portrayal

STANAG 3675 Feature Types and Portrayal	Related DGIWG Portrayal Elements

527d   TRANSPORTATION

PIPELINE (NON WATER)
   Underground

Scale Applicability Info:
   Applicable to all scales.

Label Info:
   label with product if known (ex. Elevated pipeline).

Remarks and Notes:
   See symbol 110 for water pipeline.

replaced by

   SO_0197

Related DGIF Elements

PO_1973   PipelineBelowGroundSurfaceNotWaterIntactL

STANAG 3675 Feature Types and Portrayal	Related DGIWG Portrayal Elements

527e   TRANSPORTATION

PIPELINE (NON WATER)
   Underground

Scale Applicability Info:
   Applicable to all scales.

Label Info:
   label with product if known (ex. Underground gas pipeline).

Remarks and Notes:
   See symbol 110 for water pipeline.

replaced by

   SO_0197

Related DGIF Elements

PO_1973   PipelineBelowGroundSurfaceNotWaterIntactL

Tech Report: STANAG 3675 to DGIWG Portrayal

STANAG 3675 Feature Types and Portrayal	Related DGIWG Portrayal Elements

601a1   CULTURAL FEATURES

BUILT-UP AREA
   Tint / Dense

replaced by

   SO_0385

Scale Applicability Info:
   Applicable to 1:100,000 scale and larger.

Related DGIF Elements

PO_1794   BuiltUpAreaDenseIntactA

Remarks and Notes:
   Optional colours are red-brown or yellow. Show area by actual outline where scale and purpose permit and information is available. Type size and/or style should reflect the population size and/or importance of the area being portrayed.

STANAG 3675 Feature Types and Portrayal	Related DGIWG Portrayal Elements

601a2   CULTURAL FEATURES

BUILT-UP AREA
   Tint / Sparse to moderate
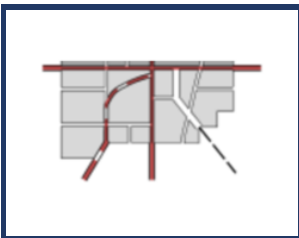
replaced by

   SO_0387

Scale Applicability Info:
   Applicable to 1:100,000 scale and larger.

Related DGIF Elements

PO_1799   BuiltUpAreaSparseOrModerateIntactA

Remarks and Notes:
   Optional colours are red-brown or yellow. Show area by actual outline where scale and purpose permit and information is available. Type size and/or style should reflect the population size and/or importance of the area being portrayed.

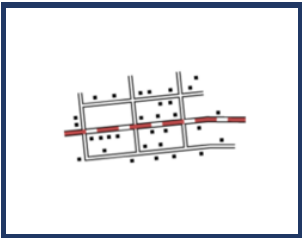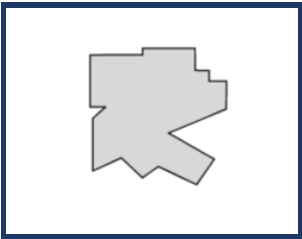# Tech Report: STANAG 3675 to DGIWG Portrayal

STANAG 3675 Feature Types and Portrayal	Related DGIWG Portrayal Elements

601b   CULTURAL FEATURES

BUILT-UP AREA
   No tint

Scale Applicability Info:
   Applicable to 1:100,000 scale and larger.

Remarks and Notes:
   Optional colours are red-brown or yellow. Show area by actual outline where scale and purpose permit and information is available. Type size and/or style should reflect the population size and/or importance of the area being portrayed.

replaced by

   SO_0005

STANAG 3675 Feature Types and Portrayal	Related DGIWG Portrayal Elements

601c   CULTURAL FEATURES

BUILT-UP AREA
   To scale

Scale Applicability Info:
   Applicable to scales smaller than 1:1,000,000.

Remarks and Notes:
   Optional colours are red-brown or yellow. Show area by actual outline where scale and purpose permit and information is available. Type size and/or style should reflect the population size and/or importance of the area being portrayed.

replaced by

   SO_0385

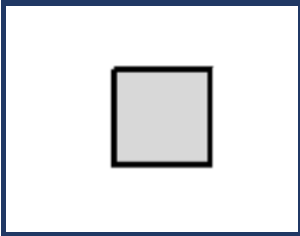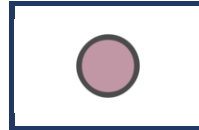| Related DGIF Elements |
|---|

PO_1793   BuiltUpAreaA

Tech Report: STANAG 3675 to DGIWG Portrayal

STANAG 3675 Feature Types and Portrayal	Related DGIWG Portrayal Elements

601d1   CULTURAL FEATURES

BUILT-UP AREA
  Point symbols

replaced by

   SO_0637

Scale Applicability Info:

   Applicable to scales smaller than 1:1,000,000.

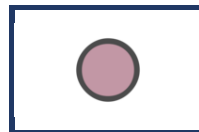| Related DGIF Elements |
|---|

PO_1810   BuiltUpAreaP

Remarks and Notes:

   Optional colours are red-brown or yellow. Show area by actual
   outline where scale and purpose permit and information is
   available. Type size and/or style should reflect the population size
   and/or importance of the area being portrayed.

STANAG 3675 Feature Types and Portrayal	Related DGIWG Portrayal Elements

601d4   CULTURAL FEATURES

BUILT-UP AREA
  Point symbols

replaced by

   SO_0637

Scale Applicability Info:

   Applicable to scales smaller than 1:1,000,000.

Related DGIF Elements

PO_1810   BuiltUpAreaP

Remarks and Notes:

   Optional colours are red-brown or yellow. Show area by actual
   outline where scale and purpose permit and information is
   available. Type size and/or style should reflect the population size
   and/or importance of the area being portrayed.

Tech Report: STANAG 3675 to DGIWG Portrayal

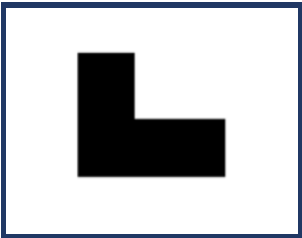| STANAG 3675 Feature Types and Portrayal	Related DGIWG Portrayal Elements

602a   CULTURAL FEATURES

BUILDING

To scale

retained as

SO_0003

Scale Applicability Info:

Applicable to 1:250,000 scale and larger.

Label Info:

Label as necessary for clarity.

Remarks and Notes:

Exact outline, scale permitting.

Related DGIF Elements

PO_0390   BuildingA

STANAG 3675 Feature Types and Portrayal	Related DGIWG Portrayal Elements

602b   CULTURAL FEATURES

BUILDING

Point symbol
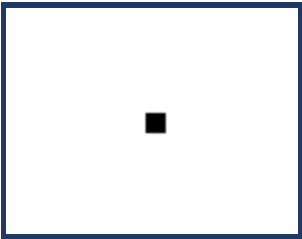
retained as

SO_0005

Scale Applicability Info:

Applicable to all scales.

Label Info:

Label as necessary for clarity.

Related DGIF Elements

PO_0510   BuildingP

Tech Report: STANAG 3675 to DGIWG Portrayal

STANAG 3675 Feature Types and Portrayal	Related DGIWG Portrayal Elements

602c   CULTURAL FEATURES

BUILDING
   Pictorial symbol

replaced by

   SO_0003

Scale Applicability Info:

   Applicable to aeronautical charts at 1:500,000 and 1:1,000,000 scales.
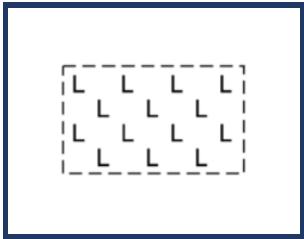
Label Info:

   Label as necessary for clarity.

STANAG 3675 Feature Types and Portrayal	Related DGIWG Portrayal Elements

603a   CULTURAL FEATURES

CEMETERY (all religious denominations)
   Point symbol

replaced by

   SO_0117

Scale Applicability Info:

   Applicable to all scales.

Related DGIF Elements

PO_0207   CemeteryA

Remarks and Notes:

   See 902 and 903 for optional symbols.

Tech Report: STANAG 3675 to DGIWG Portrayal

STANAG 3675 Feature Types and Portrayal	Related DGIWG Portrayal Elements

**603b**   CULTURAL FEATURES

replaced by

CEMETERY (all religious denominations)
  To scale

    SO_0124

Scale Applicability Info:

  Applicable to 1:250,000 scale and larger.

Related DGIF Elements

PO_0215   CemeteryP

Remarks and Notes:

  See 902 and 903 for optional symbols.

STANAG 3675 Feature Types and Portrayal	Related DGIWG Portrayal Elements

604a   CULTURAL FEATURES

replaced by

CHIMNEY / SMOKESTACK
  Point symbol
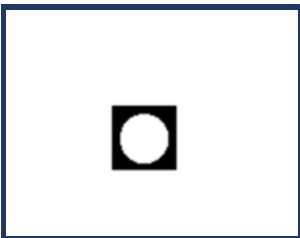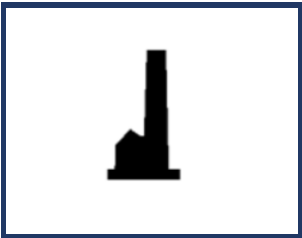
    SO_0156

Scale Applicability Info:

  Applicable to all scales.

Related DGIF Elements

PO_1062   SmokestackP

Remarks and Notes:

  See 901 and 902 for optional symbols.

Tech Report: STANAG 3675 to DGIWG Portrayal

STANAG 3675 Feature Types and Portrayal	Related DGIWG Portrayal Elements

604b   CULTURAL FEATURES

CHIMNEY / SMOKESTACK
  Pictorial symbol

replaced by

   SO_0156

Scale Applicability Info:
   Applicable to aeronautical charts at 1:500,000 and 1:1,000,000 scales.

Related DGIF Elements

PO_1062   SmokestackP

Remarks and Notes:
   See 901 and 902 for optional symbols.

STANAG 3675 Feature Types and Portrayal	Related DGIWG Portrayal Elements

605a   CULTURAL FEATURES

COMMUNICATION TOWER / MAST (LESS THAN OBSTRUCTION HEIGHT)
  Point symbols

replaced by

   SO_0009   SO_0600

Scale Applicability Info:
   Applicable to all scales.

Related DGIF Elements

PO_0281   TowerCommunicationNonObstructionP

Tech Report: STANAG 3675 to DGIWG Portrayal

STANAG 3675 Feature Types and Portrayal	Related DGIWG Portrayal Elements

**605b**   CULTURAL FEATURES

COMMUNICATION TOWER / MAST (LESS THAN OBSTRUCTION HEIGHT) Point symbols

replaced by

SO_0009   SO_0600

Scale Applicability Info:

Applicable to aeronautical charts at 1:500,000 and 1:1,000,000 scales.

Related DGIF Elements

PO_0281   TowerCommunicationNonObstructionP

STANAG 3675 Feature Types and Portrayal	Related DGIWG Portrayal Elements
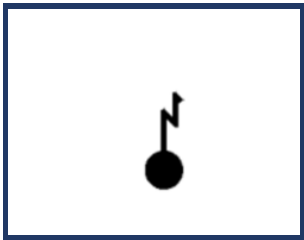
605c   CULTURAL FEATURES

COMMUNICATION TOWER / MAST (LESS THAN OBSTRUCTION HEIGHT) Pictorial symbol

replaced by

SO_0009   SO_0600

Scale Applicability Info:

Applicable to all scales.

Tech Report: STANAG 3675 to DGIWG Portrayal

STANAG 3675 Feature Types and Portrayal	Related DGIWG Portrayal Elements

**606a**   CULTURAL FEATURES

FACTORY / INDUSTRIAL COMPLEX
   To scale

Scale Applicability Info:
   Applicable to 1:250,000 scale and larger.

Remarks and Notes:
   See 903 for optional symbol.

replaced by

   SO_0003

Related DGIF Elements

PO_2541   IndustrialParkA

STANAG 3675 Feature Types and Portrayal	Related DGIWG Portrayal Elements

606b   CULTURAL FEATURES

FACTORY / INDUSTRIAL COMPLEX
   Pictorial symbol
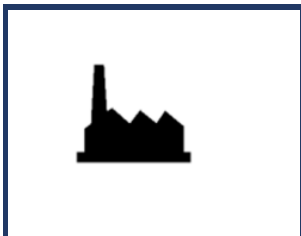
Scale Applicability Info:
   Applicable to aeronautical charts at 1:500,000 and 1:1,000,000 scales.

Remarks and Notes:
   See 903 for optional symbol.

replaced by

   SO_0005

Related DGIF Elements

PO_2541   IndustrialParkA

Tech Report: STANAG 3675 to DGIWG Portrayal

STANAG 3675 Feature Types and Portrayal	Related DGIWG Portrayal Elements

607a   **CULTURAL FEATURES**
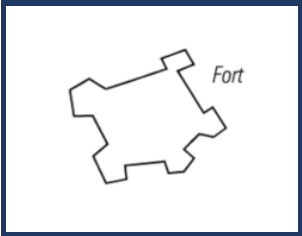
FORT / CASTLE
   To scale

replaced by

   SO_0323

Scale Applicability Info:
   Applicable to all scales.

Label Info:
   Label appropriately.

Remarks and Notes:
   See 902 for optional symbol.

Related DGIF Elements

PO_7036   IntactCastleComplexA

STANAG 3675 Feature Types and Portrayal	Related DGIWG Portrayal Elements

607b   **CULTURAL FEATURES**

FORT / CASTLE
   Point symbols

retained as

   SO_0099

Scale Applicability Info:
   Applicable to all scales.

Related DGIF Elements

PO_1603   CastleP

Tech Report: STANAG 3675 to DGIWG Portrayal

STANAG 3675 Feature Types and Portrayal	Related DGIWG Portrayal Elements

607b2   **CULTURAL FEATURES**
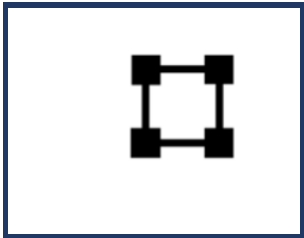
FORT / CASTLE
  Pictorial symbol

replaced by

   SO_0321

Scale Applicability Info:
  Applicable to aeronautical charts at 1:500,000 and 1:1,000,000 scales.

Label Info:
  Label appropriately (ex. Fort).

Related DGIF Elements

PO_1603   CastleP

STANAG 3675 Feature Types and Portrayal	Related DGIWG Portrayal Elements

607c   **CULTURAL FEATURES**

FORT / CASTLE
  Pictorial symbol

replaced by

   SO_0321

Scale Applicability Info:
  Applicable to all scales.

Related DGIF Elements

PO_1603   CastleP

Tech Report: STANAG 3675 to DGIWG Portrayal

STANAG 3675 Feature Types and Portrayal	Related DGIWG Portrayal Elements

**608a**   CULTURAL FEATURES

HOSPITAL
To scale

Scale Applicability Info:
  Applicable to 1:100,000 scale and larger.

retained as

SO_0617

Related DGIF Elements

PO_9043   HospitalNonObstructionIntactA

STANAG 3675 Feature Types and Portrayal	Related DGIWG Portrayal Elements

608a2   CULTURAL FEATURES

HOSPITAL
To scale

Scale Applicability Info:
  Applicable to 1:100,000 scale and larger.

replaced by

SO_0132

Related DGIF Elements

PO_0488   HospitalNonObstructionIntactA

Tech Report: STANAG 3675 to DGIWG Portrayal

STANAG 3675 Feature Types and Portrayal	Related DGIWG Portrayal Elements

608b   CULTURAL FEATURES

HOSPITAL
   Point symbol

Scale Applicability Info:
   Applicable to all scales.

retained as

   SO_0151

Related DGIF Elements

PO_0608   HospitalNonObstructionIntactP

STANAG 3675 Feature Types and Portrayal	Related DGIWG Portrayal Elements

609a   CULTURAL FEATURES

HOUSES OF WORSHIP
   Church / Point symbol

Scale Applicability Info:
   Applicable to all scales.

Remarks and Notes:
   See 902 for optional symbol.

retained as

   SO_0140

Related DGIF Elements

PO_0596   HouseofWorshipChristianChurchNonObstructionIntactP

Tech Report: STANAG 3675 to DGIWG Portrayal

STANAG 3675 Feature Types and Portrayal	Related DGIWG Portrayal Elements

609b   CULTURAL FEATURES

replaced by

HOUSES OF WORSHIP

Church / Pictorial symbol

SO_0140

Scale Applicability Info:

Applicable to aeronautical charts at 1:500,000 and 1:1,000,000 scales.

Related DGIF Elements

PO_0596   HouseofWorshipChristianChurchNonObstructionIntactP

Remarks and Notes:

See 902 for optional symbol.

STANAG 3675 Feature Types and Portrayal	Related DGIWG Portrayal Elements

609c   CULTURAL FEATURES

retained as

HOUSES OF WORSHIP

Mosque

SO_0143

Scale Applicability Info:

Applicable to all scales.

Related DGIF Elements

PO_9065   IslamicMosqueP

Remarks and Notes:

See 902 for optional symbol.

Tech Report: STANAG 3675 to DGIWG Portrayal

STANAG 3675 Feature Types and Portrayal	Related DGIWG Portrayal Elements

609d   CULTURAL FEATURES

HOUSES OF WORSHIP
   Synagogue

retained as

   SO_0144
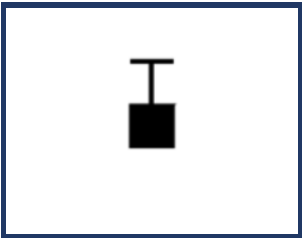
Scale Applicability Info:
   Applicable to all scales.

Related DGIF Elements

PO_0607   HouseofWorshipJudaismSynagogueNonObstructionIntactP

Remarks and Notes:
   See 902 for optional symbol.

STANAG 3675 Feature Types and Portrayal	Related DGIWG Portrayal Elements

609e   CULTURAL FEATURES

HOUSES OF WORSHIP
   Temple (Buddhist)

replaced by

   SO_0125

Scale Applicability Info:
   Applicable to all scales.

Related DGIF Elements

PO_9630   DCMIntactBuddhistReligionBuildingFacTypeKnownA

Remarks and Notes:
   See 902 for optional symbol.

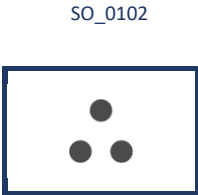# Tech Report: STANAG 3675 to DGIWG Portrayal

STANAG 3675 Feature Types and Portrayal	Related DGIWG Portrayal Elements

609f   CULTURAL FEATURES

HOUSES OF WORSHIP
   Temple (Buddhist-Japan)

replaced by

   SO_0149

Scale Applicability Info:
   Applicable to all scales.

Related DGIF Elements

PO_0231   TombBuddhismP

Remarks and Notes:
   See 902 for optional symbol.

STANAG 3675 Feature Types and Portrayal	Related DGIWG Portrayal Elements

609g   CULTURAL FEATURES

HOUSES OF WORSHIP
   Pagoda

replaced by

   SO_0145

Scale Applicability Info:
   Applicable to all scales.

Related DGIF Elements

PO_0611   PagodaNonObstructionIntactP

Remarks and Notes:
   See 902 for optional symbol.

STANAG 3675 Feature Types and Portrayal	Related DGIWG Portrayal Elements

610a   CULTURAL FEATURES

LIGHTHOUSE
  Point symbol

replaced by

  SO_0080

Scale Applicability Info:
  Applicable to all scales.

Related DGIF Elements

PO_1404   LighthouseP

STANAG 3675 Feature Types and Portrayal	Related DGIWG Portrayal Elements

610b   CULTURAL FEATURES

LIGHTHOUSE
  Pictorial symbol

replaced by

  SO_0080

Scale Applicability Info:
  Applicable to aeronautical charts at 1:500,000 and 1:1,000,000
  scales.

Related DGIF Elements

PO_1404   LighthouseP

Tech Report: STANAG 3675 to DGIWG Portrayal

STANAG 3675 Feature Types and Portrayal	Related DGIWG Portrayal Elements

611a   CULTURAL FEATURES

MONUMENT
  Pictorial symbol

Scale Applicability Info:
  Applicable to aeronautical charts at 1:500,000 and 1:1,000,000 scales.

Remarks and Notes:
  See 901 and 902 for optional symbols.

replaced by

  SO_0104

Related DGIF Elements

PO_0984   MemorialMonumentP

STANAG 3675 Feature Types and Portrayal	Related DGIWG Portrayal Elements

611b   CULTURAL FEATURES

MONUMENT
  Point symbol

Scale Applicability Info:
  Applicable to all scales.

Remarks and Notes:
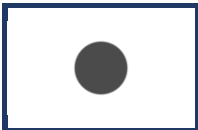 See 901 and 902 for optional symbols.

replaced by

  SO_0104

Related DGIF Elements

PO_0984   MemorialMonumentP

Tech Report: STANAG 3675 to DGIWG Portrayal

STANAG 3675 Feature Types and Portrayal	Related DGIWG Portrayal Elements

612a   CULTURAL FEATURES

RACE TRACK AND STADIUM
   Racetrack / To scale

replaced by

   SO_0110

Scale Applicability Info:
   Applicable to all scales.

Related DGIF Elements

PO_1166   RacetrackA

Remarks and Notes:
   See 902 for optional symbol.

STANAG 3675 Feature Types and Portrayal	Related DGIWG Portrayal Elements

612b   CULTURAL FEATURES

RACE TRACK AND STADIUM
   Stadium / To scale

replaced by

   SO_0111

Scale Applicability Info:
   Applicable to all scales.

Related DGIF Elements

PO_1198   StadiumNonObstructionIntactA

Remarks and Notes:
   Optional solid fill. See 902 for optional symbol.

Tech Report: STANAG 3675 to DGIWG Portrayal

STANAG 3675 Feature Types and Portrayal	Related DGIWG Portrayal Elements

613   CULTURAL FEATURES

RUINS

replaced by

SO_0102

Scale Applicability Info:
  Applicable to all scales.

Label Info:
  Label appropriately (ex. Ruins)

Remarks and Notes:
  See 902 for optional symbol.

Related DGIF Elements

PO_0967   RuinsNonObstructionP

STANAG 3675 Feature Types and Portrayal	Related DGIWG Portrayal Elements

614   CULTURAL FEATURES
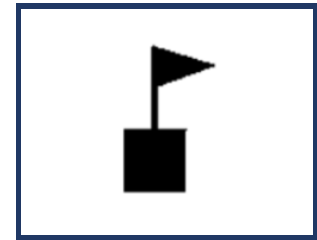
SCHOOL

retained as

SO_0142

Scale Applicability Info:
  Applicable to all scales.

Remarks and Notes:
  See 902 for optional symbol.
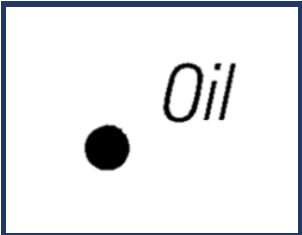
Related DGIF Elements

PO_0599   EducationalSchoolNonObstructionIntactP

Tech Report: STANAG 3675 to DGIWG Portrayal

STANAG 3675 Feature Types and Portrayal	Related DGIWG Portrayal Elements

615   **CULTURAL FEATURES**

SUBSTATION / TRANSFORMER YARD

replaced by

SO_0155

Scale Applicability Info:
   Applicable to all scales.

Related DGIF Elements

PO_1059   PowerSubstationP

Remarks and Notes:
   See 902 for optional symbol.

STANAG 3675 Feature Types and Portrayal	Related DGIWG Portrayal Elements

616   **CULTURAL FEATURES**

TANK

replaced by

SO_0096

Scale Applicability Info:
   Applicable to all scales.

Related DGIF Elements

PO_1257   StorageTankP

Tech Report: STANAG 3675 to DGIWG Portrayal

STANAG 3675 Feature Types and Portrayal	Related DGIWG Portrayal Elements

617   CULTURAL FEATURES

WATERMILL

Scale Applicability Info:

Applicable to all scales.

Remarks and Notes:

See 901 or 902 for optional symbol.

replaced by Label

Related DGIF Elements

PO_1125   WaterMillNonObstructionIntactP

STANAG 3675 Feature Types and Portrayal	Related DGIWG Portrayal Elements

618   CULTURAL FEATURES

WELL (OIL OR GAS)
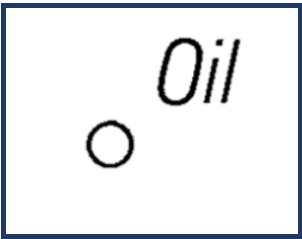
Scale Applicability Info:

Applicable to all scales.

Label Info:

Label with tank contents if known.

Remarks and Notes:

See symbol 124 for water well.

retained as

SO_0092

Related DGIF Elements

PO_0378   NonWaterWellIntactP

Tech Report: STANAG 3675 to DGIWG Portrayal

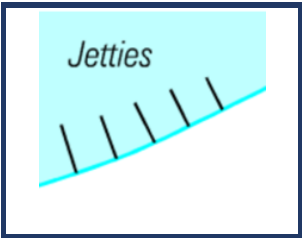| STANAG 3675 Feature Types and Portrayal	Related DGIWG Portrayal Elements

619   CULTURAL FEATURES

WINDMILL

replaced by

SO_0026

Scale Applicability Info:

   Applicable to all scales.

Related DGIF Elements

PO_0127   WindmillP

Remarks and Notes:

   See 901 or 902 for optional symbol.

STANAG 3675 Feature Types and Portrayal	Related DGIWG Portrayal Elements

620   CULTURAL FEATURES

WINDMOTOR

replaced by

SO_0157

Scale Applicability Info:

   Applicable to all scales.
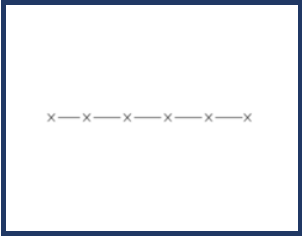
Related DGIF Elements
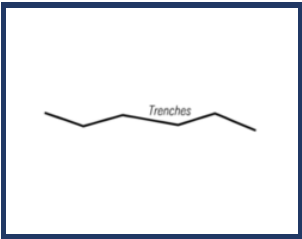
PO_1087   BlastFurnaceNonLandmarkNonObstructionP

Remarks and Notes:

   See 901 or 902 for optional symbol.

Tech Report: STANAG 3675 to DGIWG Portrayal

STANAG 3675 Feature Types and Portrayal	Related DGIWG Portrayal Elements

621   CULTURAL FEATURES

PROMINENT FENCE

Scale Applicability Info:
    Applicable to all scales.

replaced by

    SO_0232

Related DGIF Elements

PO_0947   FenceL

STANAG 3675 Feature Types and Portrayal	Related DGIWG Portrayal Elements

622   CULTURAL FEATURES

WALL, TRENCH, TANK TRAP
   Wall

Scale Applicability Info:
    Applicable to all scales.

Label Info:
    Label appropriately (ex. Trenches).

retained as

    SO_0231

Related DGIF Elements

PO_0904   WallL

PO_1627   EngineeredEarthworkTrenchL

Tech Report: STANAG 3675 to DGIWG Portrayal

STANAG 3675 Feature Types and Portrayal	Related DGIWG Portrayal Elements

623   CULTURAL FEATURES
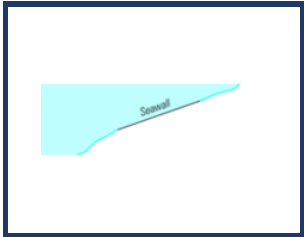
SEAWALL

Scale Applicability Info:

   Applicable to all scales.
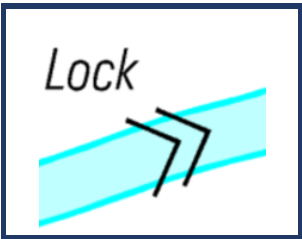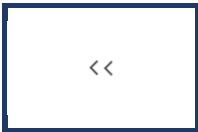
Label Info:

   Label as necessary for clarity (ex. Seawall).

retained as

   SO_0309

Related DGIF Elements

PO_1681   ShorelineConstructionSeawallL

STANAG 3675 Feature Types and Portrayal	Related DGIWG Portrayal Elements

624a   CULTURAL FEATURES

PIER / WHARF / QUAY, BREAKWATER, JETTY
   Breakwater

Scale Applicability Info:
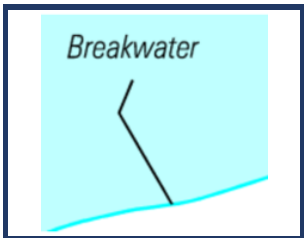
   Applicable to all scales.

Label Info:

   Label as necessary for clarity (ex. Breakwater).

retained as

   SO_0309

Related DGIF Elements

PO_1674   ShorelineConstructionBreakWaterL

STANAG 3675 Feature Types and Portrayal	Related DGIWG Portrayal Elements

624b　　　　　　　　　　　　　　　CULTURAL FEATURES

PIER / WHARF / QUAY, BREAKWATER, JETTY
　Jetty

retained as

　SO_0309

Scale Applicability Info:
　Applicable to all scales.

Label Info:
　Label as necessary for clarity (ex. Jetties).

Related DGIF Elements

PO_8121　JettyL

STANAG 3675 Feature Types and Portrayal	Related DGIWG Portrayal Elements

624c　　　　　　　　　　　　　　　CULTURAL FEATURES
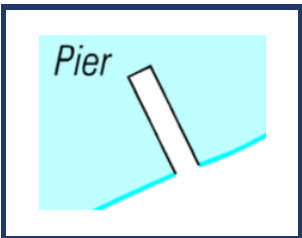
PIER / WHARF / QUAY, BREAKWATER, JETTY
　Pier

retained as

　SO_0114

Scale Applicability Info:
　Applicable to all scales.

Label Info:
　Label as necessary for clarity (ex. Pier).

Related DGIF Elements

PO_1669　ShorelineConstructionRecreationalPierA
PO_1680　ShorelineConstructionRecreationalPierL

Tech Report: STANAG 3675 to DGIWG Portrayal

STANAG 3675 Feature Types and Portrayal	Related DGIWG Portrayal Elements

625a   CULTURAL FEATURES

DAM

To scale / Line
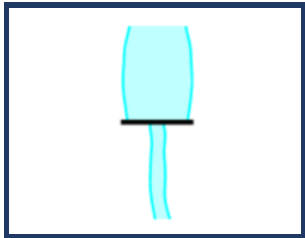
Scale Applicability Info:

Applicable to all scales.

retained as

SO_0167

Related DGIF Elements

PO_1445   DamL

STANAG 3675 Feature Types and Portrayal	Related DGIWG Portrayal Elements

625b   CULTURAL FEATURES

DAM

Scale Applicability Info:

Applicable to all scales.

replaced by

SO_0167

Related DGIF Elements

PO_1464   DamP

Tech Report: STANAG 3675 to DGIWG Portrayal

STANAG 3675 Feature Types and Portrayal	Related DGIWG Portrayal Elements

625c   CULTURAL FEATURES

DAM

To scale / Polygon

retained as

SO_0173

Scale Applicability Info:

Applicable to 1:250,000 scale and larger.

Related DGIF Elements

PO_1437   DamHardIntactA

STANAG 3675 Feature Types and Portrayal	Related DGIWG Portrayal Elements

625d   CULTURAL FEATURES

DAM

Dam carrying road / Black
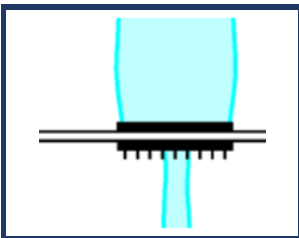
retained as

SO_0169

Scale Applicability Info:

Applicable to 1:250,000 scale and larger.

Related DGIF Elements

PO_1471   DamHardTransportationIntactP

Tech Report: STANAG 3675 to DGIWG Portrayal

STANAG 3675 Feature Types and Portrayal	Related DGIWG Portrayal Elements

625e CULTURAL FEATURES

DAM

Dam carrying road / Brown
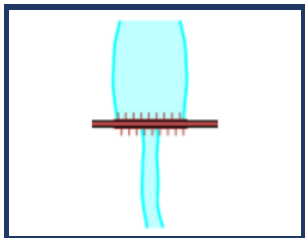
retained as

SO_0170

Scale Applicability Info:
1:500,000 and smaller.

Related DGIF Elements

PO_1461   DamTransportationLooseL

STANAG 3675 Feature Types and Portrayal	Related DGIWG Portrayal Elements

626a CULTURAL FEATURES
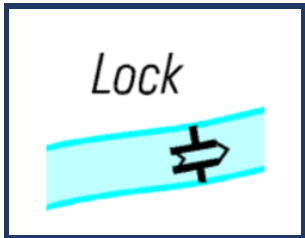
LOCK

retained as

SO_0058

Scale Applicability Info:
Applicable to all scales.

Related DGIF Elements

PO_1491   LockA

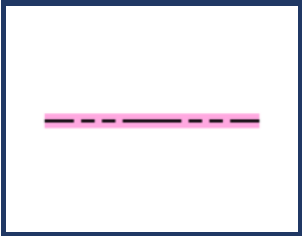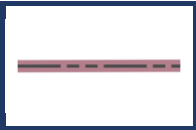# Tech Report: STANAG 3675 to DGIWG Portrayal

STANAG 3675 Feature Types and Portrayal	Related DGIWG Portrayal Elements

626b   **CULTURAL FEATURES**

LOCK

retained as

SO_0059

Scale Applicability Info:

Applicable to all scales.

Related DGIF Elements

PO_1492   LockL

STANAG 3675 Feature Types and Portrayal	Related DGIWG Portrayal Elements

626c   **CULTURAL FEATURES**

LOCK

retained as

SO_0060

Scale Applicability Info:

Applicable to all scales.

Related DGIF Elements

PO_1493   LockP

Tech Report: STANAG 3675 to DGIWG Portrayal

STANAG 3675 Feature Types and Portrayal	Related DGIWG Portrayal Elements

627a   **CULTURAL FEATURES**
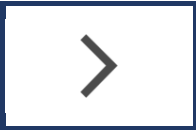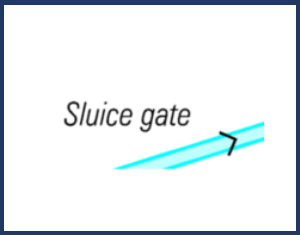
SLUICE GATE

retained as

SO_0061

Scale Applicability Info:

Applicable to all scales.

Label Info:

Label as necessary for clarity (ex. Sluice gate).

Related DGIF Elements

PO_8129   SluiceGateA

STANAG 3675 Feature Types and Portrayal	Related DGIWG Portrayal Elements

627b   **CULTURAL FEATURES**
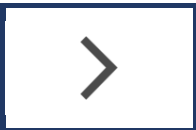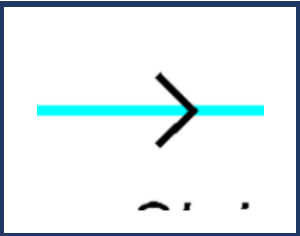
SLUICE GATE

retained as

SO_0061

Scale Applicability Info:

Applicable to all scales.

Label Info:

Label as necessary for clarity (ex. Sluice gate).

Related DGIF Elements

PO_8129   SluiceGateA

Tech Report: STANAG 3675 to DGIWG Portrayal

STANAG 3675 Feature Types and Portrayal	Related DGIWG Portrayal Elements

628a   CULTURAL FEATURES

POWER TRANSMISSION LINE (HIGH TENSION)
  1

retained as

   SO_0194

Scale Applicability Info:
   Applicable to all scales.

Related DGIF Elements

PO_0269   CablePowerTransmissionL

Remarks and Notes:
   May be used with 702 if linear obstruction.

STANAG 3675 Feature Types and Portrayal	Related DGIWG Portrayal Elements

628b   CULTURAL FEATURES

POWER TRANSMISSION LINE (HIGH TENSION)
  2

not used
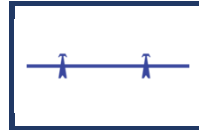
Scale Applicability Info:
   Applicable to all scales.

Related DGIF Elements

PO_0269   CablePowerTransmissionL

Remarks and Notes:
   May be used with 702 if linear obstruction. Optional colours are
   black and red.
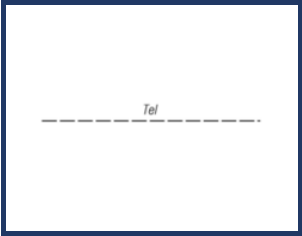
Tech Report: STANAG 3675 to DGIWG Portrayal

STANAG 3675 Feature Types and Portrayal	Related DGIWG Portrayal Elements

629 CULTURAL FEATURES

TELEPHONE LINE / TELEGRAPH LINE

Scale Applicability Info:
  Applicable to all scales.

Label Info:
  Label appropriately (ex. Tel).

replaced by

SO_0193

Related DGIF Elements

PO_0267   CableCommunicationLineL

STANAG 3675 Feature Types and Portrayal	Related DGIWG Portrayal Elements

630 CULTURAL FEATURES

HORIZONTAL CONTROL POINT

retained as

SO_0097

Related DGIF Elements

PO_1385   SurveyPointGeodeticP

Tech Report: STANAG 3675 to DGIWG Portrayal

STANAG 3675 Feature Types and Portrayal	Related DGIWG Portrayal Elements

631a   CULTURAL FEATURES

BOUNDARIES BETWEEN STATES (PRIMARY POLITICAL ENTITIES)
International / 1

retained as

SO_0186

Scale Applicability Info:
Applicable to all scales.

Label Info:
Label appropriately.

Remarks and Notes:
Overprint is optional but when used the preferred colour is red, other colours are optional.

Related DGIF Elements	

PO_0156   AdministrativeBoundaryInternationalL

STANAG 3675 Feature Types and Portrayal	Related DGIWG Portrayal Elements

631b   CULTURAL FEATURES

BOUNDARIES BETWEEN STATES (PRIMARY POLITICAL ENTITIES)
International / 2

not used

Scale Applicability Info:
Applicable to all scales.

Label Info:
Label appropriately.

Remarks and Notes:
Overprint is opitonal but when used the preferred colour is red, other colours are optional.

Related DGIF Elements	

PO_0156   AdministrativeBoundaryInternationalL

Tech Report: STANAG 3675 to DGIWG Portrayal

STANAG 3675 Feature Types and Portrayal	Related DGIWG Portrayal Elements

631c   CULTURAL FEATURES

BOUNDARIES BETWEEN STATES (PRIMARY POLITICAL ENTITIES)
    Indefinite / 1

replaced by

    SO_0182

Scale Applicability Info:
  Applicable to all scales.

Label Info:
  Label appropriately.

Remarks and Notes:
  Overprint is opitonal but when used the preferred colour is red, other colours are optional.

Related DGIF Elements

PO_0177   AdministrativeBoundaryOtherSeparationKnownIndefiniteInDisputeL

STANAG 3675 Feature Types and Portrayal	Related DGIWG Portrayal Elements

631d   CULTURAL FEATURES

BOUNDARIES BETWEEN STATES (PRIMARY POLITICAL ENTITIES)
    Indefinite / 2

not used

Scale Applicability Info:
  Applicable to all scales.

Label Info:
  Label appropriately.

Remarks and Notes:
  Overprint is opitonal but when used the preferred colour is red, other colours are optional.

Related DGIF Elements

PO_0177   AdministrativeBoundaryOtherSeparationKnownIndefiniteInDisputeL

Tech Report: STANAG 3675 to DGIWG Portrayal

STANAG 3675 Feature Types and Portrayal	Related DGIWG Portrayal Elements

631e　　　　　　　　　　　　　　　　**CULTURAL FEATURES**

BOUNDARIES BETWEEN STATES (PRIMARY POLITICAL ENTITIES)
　Disputed

replaced by

　　SO_0182

Scale Applicability Info:
　Applicable to all scales.

Label Info:
　Label appropriately.

Related DGIF Elements	

PO_0177　AdministrativeBoundaryOtherSeparationKnownIndefiniteInDisputeL

STANAG 3675 Feature Types and Portrayal	Related DGIWG Portrayal Elements

631f　　　　　　　　　　　　　　　　**CULTURAL FEATURES**

BOUNDARIES BETWEEN STATES (PRIMARY POLITICAL ENTITIES)
　Other lines of separation

replaced by

　　SO_0182

Scale Applicability Info:
　Applicable to all scales.

Label Info:
　Label appropriately.

Related DGIF Elements	

PO_0158　AdministrativeBoundaryOtherNotInternationalL

PO_0160　CeaseFireLineL

PO_0161　ClaimLineL

PO_0162　ConventionLineL

PO_0163　DemarcationLineL

Tech Report: STANAG 3675 to DGIWG Portrayal

STANAG 3675 Feature Types and Portrayal	Related DGIWG Portrayal Elements

631g   CULTURAL FEATURES

BOUNDARIES BETWEEN STATES (PRIMARY POLITICAL ENTITIES)
  International maritime

replaced by

SO_0182

Scale Applicability Info:
  Applicable to all scales.

Label Info:
  Label appropriately.

STANAG 3675 Feature Types and Portrayal	Related DGIWG Portrayal Elements

632   CULTURAL FEATURES

INTERNATIONAL DATE LINE
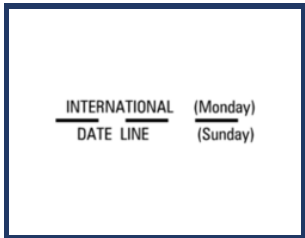
retained as

SO_0501

Scale Applicability Info:
  Applicable to all scales.

Label Info:
  Label as shown INTERNATIONAL (Monday) or DATE LINE (Sunday).
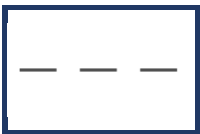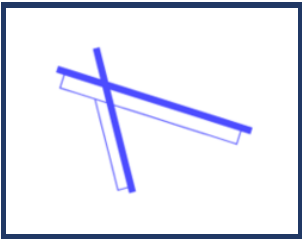
Related DGIF Elements

PO_2565   InternationalDateLineL

Tech Report: STANAG 3675 to DGIWG Portrayal

STANAG 3675 Feature Types and Portrayal	Related DGIWG Portrayal Elements

633a   **CULTURAL FEATURES**

PRIMARY ADMINISTRATIVE BOUNDARY

replaced by

SO_0181

Scale Applicability Info:

Applicable to all scales.

Label Info:

Label appropriately.

STANAG 3675 Feature Types and Portrayal	Related DGIWG Portrayal Elements

701a   **AERONAUTICAL DATA**

AIRPORT / AIRFIELD

   To scale

retained as

SO_0723   and   SO_0727

Scale Applicability Info:

Applicable to 1:100,000 scale and larger.

Label Info:

Label as appropriate with name of airport/airfield, length of longest runway surface data , and elevation.

Remarks and Notes:

Closed, disused, or abandoned airports/airfields will be indicatied by either adding an appropriate label or by substituting a pecked (dashed), open circle for a solid circle.

Tech Report: STANAG 3675 to DGIWG Portrayal

STANAG 3675 Feature Types and Portrayal	Related DGIWG Portrayal Elements

701b AERONAUTICAL DATA

AIRPORT / AIRFIELD
  Runway pattern and airfield limits known

retained as

SO_0723   and   SO_0727

Scale Applicability Info:
  Applicable to 1:250,000 and 1:500,000 scales.

Label Info:
  Label as appropriate with name of airport/airfield, length of longest runway surface data , and elevation.

Remarks and Notes:
  Closed, disused, or abandoned airports/airfields will be indicatied by either adding an appropriate label or by substituting a pecked (dashed), open circle for a solid circle.

STANAG 3675 Feature Types and Portrayal	Related DGIWG Portrayal Elements

701c AERONAUTICAL DATA

AIRPORT / AIRFIELD
  Major airfield/airport, runway pattern and airfield limits known

retained as

SO_0711

Scale Applicability Info:
  Applicable to aeronautical charts from 1:250,000 to 1:1,000,000.

Label Info:
  Label as appropriate with name of airport/airfield, length of longest runway surface data , and elevation.

Remarks and Notes:
  Closed, disused, or abandoned airports/airfields will be indicatied by either adding an appropriate label or by substituting a pecked (dashed), open circle for a solid circle.
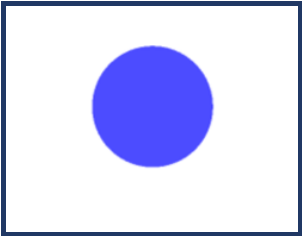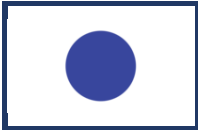
Tech Report: STANAG 3675 to DGIWG Portrayal

STANAG 3675 Feature Types and Portrayal	Related DGIWG Portrayal Elements
701d AERONAUTICAL DATA	**retained as**

AIRPORT / AIRFIELD

Major airfield/airport, runway pattern and airfield limits unknown

SO_0712

Scale Applicability Info:

Applicable to aeronautical charts from 1:250,000 to 1:1,000,000.

STANAG 3675 Feature Types and Portrayal	Related DGIWG Portrayal Elements
701e AERONAUTICAL DATA	**retained as**

AIRPORT / AIRFIELD

Minor airport/airfield

SO_0713

Scale Applicability Info:

Applicable to aeronautical charts at 1:500,000 and 1:1,000,000 scales.

Tech Report: STANAG 3675 to DGIWG Portrayal
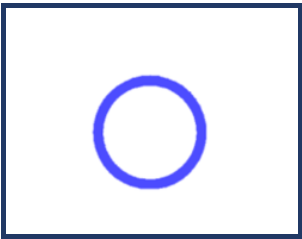
STANAG 3675 Feature Types and Portrayal	Related DGIWG Portrayal Elements

701f AERONAUTICAL DATA

AIRPORT / AIRFIELD
Military

replaced by

SO_0653

Scale Applicability Info:

Applicable to aeronautical charts at 1:500,000 scales and smaller.

- -

STANAG 3675 Feature Types and Portrayal	Related DGIWG Portrayal Elements

701g AERONAUTICAL DATA

AIRPORT / AIRFIELD
Civil

replaced by

SO_0651

Scale Applicability Info:

Applicable to aeronautical charts at 1:500,000 scales and smaller.

- -

Tech Report: STANAG 3675 to DGIWG Portrayal

STANAG 3675 Feature Types and Portrayal	Related DGIWG Portrayal Elements

701h   AERONAUTICAL DATA

AIRPORT / AIRFIELD
Joint civil and military

replaced by

SO_0655

Scale Applicability Info:

Applicable to aeronautical charts at 1:500,000 scales and smaller.

STANAG 3675 Feature Types and Portrayal	Related DGIWG Portrayal Elements

701i   AERONAUTICAL DATA

AIRPORT / AIRFIELD
Emergency (no facilities or complete information is not available)

retained as

SO_0657

Scale Applicability Info:

Applicable to aeronautical charts at 1:500,000 scales and smaller.

Tech Report: STANAG 3675 to DGIWG Portrayal

STANAG 3675 Feature Types and Portrayal	Related DGIWG Portrayal Elements

702a   AERONAUTICAL DATA

SEAPLANE BASE
  Military

retained as

  SO_0654

Scale Applicability Info:

  Applicable to aeronautical charts at 1:500,000 scales and smaller.

Related DGIF Elements

PO_0060   SeaplaneRunA

STANAG 3675 Feature Types and Portrayal	Related DGIWG Portrayal Elements

702b   AERONAUTICAL DATA

SEAPLANE BASE
  Civil

retained as

  SO_0652

Scale Applicability Info:

  Applicable to aeronautical charts at 1:500,000 scales and smaller.

Tech Report: STANAG 3675 to DGIWG Portrayal

STANAG 3675 Feature Types and Portrayal	Related DGIWG Portrayal Elements

702c   AERONAUTICAL DATA

SEAPLANE BASE
  Joint civil and military

Scale Applicability Info:
  Applicable to aeronautical charts at 1:500,000 scales and smaller.

retained as

  SO_0656

STANAG 3675 Feature Types and Portrayal	Related DGIWG Portrayal Elements

702d   AERONAUTICAL DATA

SEAPLANE BASE
  Sheltered anchorage

Scale Applicability Info:
  Applicable to all scales.

retained as

  SO_0659

Related DGIF Elements

PO_0045   HelipadHospitalP

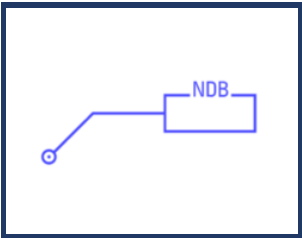# Tech Report: STANAG 3675 to DGIWG Portrayal
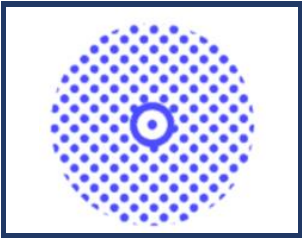
STANAG 3675 Feature Types and Portrayal	Related DGIWG Portrayal Elements

703a   AERONAUTICAL DATA

retained as

HELIPORT / HELIPAD
   Located at a hospital

SO_0018

Related DGIF Elements

PO_0048   HelipadNonHospitalP

STANAG 3675 Feature Types and Portrayal	Related DGIWG Portrayal Elements

703b   AERONAUTICAL DATA

retained as

HELIPORT / HELIPAD
   Not located at a hospital

SO_0017

Related DGIF Elements

PO_0002   AeronauticalRadioNavigationServiceP

Tech Report: STANAG 3675 to DGIWG Portrayal

STANAG 3675 Feature Types and Portrayal	Related DGIWG Portrayal Elements

704a AERONAUTICAL DATA

RADIO NAVIGATION AIDS
  Basic symbol

retained as

SO_0002

Scale Applicability Info:
  Applicable to aeronautical charts at 1:250,000 scales and smaller.

Label Info:
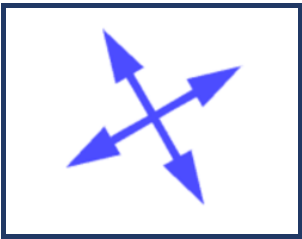 Label Symbol with identification box as appropriate.

STANAG 3675 Feature Types and Portrayal	Related DGIWG Portrayal Elements

704b AERONAUTICAL DATA

RADIO NAVIGATION AIDS
  Non-directional radio beacon (NDB)

replaced by

SO_0709

Scale Applicability Info:
  Applicable to aeronautical charts at 1:250,000 scales and smaller.

Label Info:
  Label Symbol with identification box as appropriate.

Tech Report: STANAG 3675 to DGIWG Portrayal

STANAG 3675 Feature Types and Portrayal	Related DGIWG Portrayal Elements

704c　　　　　　　　　　　　　　　　AERONAUTICAL DATA

RADIO NAVIGATION AIDS
　Non-directional radio beacon (NDB)

retained as

SO_0002　　and　　SO_0398

Scale Applicability Info:
　Applicable to aeronautical charts at 1:250,000 scales and smaller.

Label Info:
　Label Symbol with identification box as appropriate.

STANAG 3675 Feature Types and Portrayal	Related DGIWG Portrayal Elements

704d　　　　　　　　　　　　　　　　AERONAUTICAL DATA

RADIO NAVIGATION AIDS
　Non-directional radio beacon (NDB)

not used

Scale Applicability Info:
　Applicable to aeronautical charts at 1:250,000 scales and smaller.

Label Info:
　Label Symbol with identification box as appropriate.

Tech Report: STANAG 3675 to DGIWG Portrayal

STANAG 3675 Feature Types and Portrayal	Related DGIWG Portrayal Elements

704e   AERONAUTICAL DATA

retained as

RADIO NAVIGATION AIDS

   VHF omnidirectional radio range (VOR)

SO_0679

Scale Applicability Info:

   Applicable to aeronautical charts at 1:250,000 scales and smaller.

Label Info:

   Label Symbol with identification box as appropriate.

STANAG 3675 Feature Types and Portrayal	Related DGIWG Portrayal Elements

704f   AERONAUTICAL DATA

retained as

RADIO NAVIGATION AIDS

   Distance measuring equipment (DME)

SO_0733

Scale Applicability Info:

   Applicable to aeronautical charts at 1:250,000 scales and smaller.

Label Info:

   Label Symbol with identification box as appropriate.

Tech Report: STANAG 3675 to DGIWG Portrayal

STANAG 3675 Feature Types and Portrayal	Related DGIWG Portrayal Elements

704g   AERONAUTICAL DATA

retained as

RADIO NAVIGATION AIDS

Collocated VOR and DME radio navigation aids (VOR / DME)

SO_0680
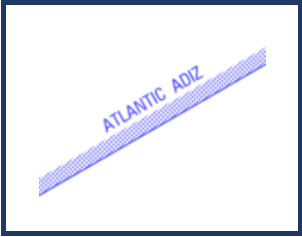

Scale Applicability Info:

Applicable to aeronautical charts at 1:250,000 scales and smaller.

Label Info:

Label Symbol with identification box as appropriate.

STANAG 3675 Feature Types and Portrayal	Related DGIWG Portrayal Elements

704h   AERONAUTICAL DATA

retained as

RADIO NAVIGATION AIDS

UHF tactical air navigation aid (TACAN)

SO_0678

Scale Applicability Info:

Applicable to aeronautical charts at 1:250,000 scales and smaller.

Label Info:

Label Symbol with identification box as appropriate.

Tech Report: STANAG 3675 to DGIWG Portrayal

STANAG 3675 Feature Types and Portrayal	Related DGIWG Portrayal Elements

704i   AERONAUTICAL DATA

RADIO NAVIGATION AIDS

Collocated VOR and TACAN radio navigation aids (VORTAC)

retained as

SO_0650

Scale Applicability Info:

Applicable to aeronautical charts at 1:250,000 scales and smaller.

Label Info:

Label Symbol with identification box as appropriate.

STANAG 3675 Feature Types and Portrayal	Related DGIWG Portrayal Elements

705   AERONAUTICAL DATA

COMPASS ROSE

retained as

SO_0662

Scale Applicability Info:

Applicable to aeronautical charts at 1:250,000 scales and smaller.

Remarks and Notes:

To be oriented on the chart in accordance with the alignment of the station (normally Magnetic North).   Use as appropriate in combination with the following 704 symbols: VOR, VOR/DME, TACAN, and VORTAC.
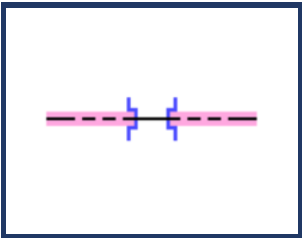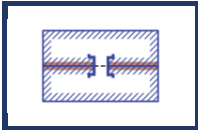
Tech Report: STANAG 3675 to DGIWG Portrayal

STANAG 3675 Feature Types and Portrayal	Related DGIWG Portrayal Elements

706   AERONAUTICAL DATA

AIR DEFENSE IDENTIFICATION ZONE (ADIZ)

retained as

SO_0707

Scale Applicability Info:

   Applicable to aeronautical charts at 1:250,000 scales and smaller.

Label Info:

   Label appropriately (ADIZ).

STANAG 3675 Feature Types and Portrayal	Related DGIWG Portrayal Elements

707   AERONAUTICAL DATA

BUFFER ZONE

retained as

SO_0706

Scale Applicability Info:

   Applicable to aeronautical charts at 1:250,000 scales and smaller.

Label Info:

   Label appropriately (BUFFER ZONE).

Tech Report: STANAG 3675 to DGIWG Portrayal

STANAG 3675 Feature Types and Portrayal	Related DGIWG Portrayal Elements

708a   AERONAUTICAL DATA

AIR CORRIDOR (COMPULSORY)

retained as

SO_0667

Scale Applicability Info:

Applicable to aeronautical charts at 1:250,000 scales and smaller.

STANAG 3675 Feature Types and Portrayal	Related DGIWG Portrayal Elements

708c   AERONAUTICAL DATA

AIR CORRIDOR (COMPULSORY)
  Compulsory entry corridor

replaced by

SO_0705

Scale Applicability Info:

Applicable to aeronautical charts at 1:250,000 scales and smaller.

Tech Report: STANAG 3675 to DGIWG Portrayal

STANAG 3675 Feature Types and Portrayal	Related DGIWG Portrayal Elements

709a   AERONAUTICAL DATA

CONTROL ZONE

retained as

SO_0667

Scale Applicability Info:

Applicable to aeronautical charts at 1:250,000 scales and smaller.

Label Info:

Label as necessary for clarity.

Remarks and Notes:

Show actual outline. Area and boundary fill choices are optional.

STANAG 3675 Feature Types and Portrayal	Related DGIWG Portrayal Elements

709b   AERONAUTICAL DATA

CONTROL ZONE

not used

Scale Applicability Info:

Applicable to aeronautical charts at 1:250,000 scales and smaller.

Label Info:

Label as necessary for clarity.

Remarks and Notes:

Show actual outline. Area and boundary fill choices are optional.

Tech Report: STANAG 3675 to DGIWG Portrayal

STANAG 3675 Feature Types and Portrayal	Related DGIWG Portrayal Elements

710   **AERONAUTICAL DATA**

OCEANIC CONTROL AREA

replaced by

SO_0664

Scale Applicability Info:

   Applicable to aeronautical charts at 1:250,000 scales and smaller.

Label Info:

   Label appropriately.

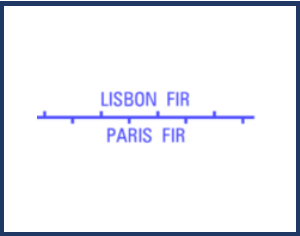| STANAG 3675 Feature Types and Portrayal	Related DGIWG Portrayal Elements

711a   **AERONAUTICAL DATA**

FLIGHT INFORMATION REGION AND UPPER INFORMATION REGION

retained as

SO_0663
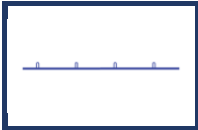

Scale Applicability Info:

   Applicable to aeronautical charts at 1:250,000 scales and smaller.

Label Info:

   Label appropriately.

Tech Report: STANAG 3675 to DGIWG Portrayal

STANAG 3675 Feature Types and Portrayal	Related DGIWG Portrayal Elements

711b AERONAUTICAL DATA

FLIGHT INFORMATION REGION AND UPPER INFORMATION REGION

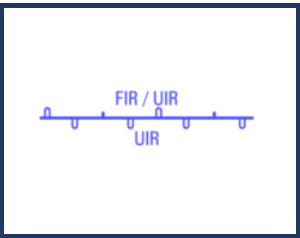**retained as**

SO_0761

Scale Applicability Info:

Applicable to aeronautical charts at 1:250,000 scales and smaller.

Label Info:

Label appropriately.

STANAG 3675 Feature Types and Portrayal	Related DGIWG Portrayal Elements

711c AERONAUTICAL DATA

FLIGHT INFORMATION REGION AND UPPER INFORMATION REGION

retained as

SO_0756

Scale Applicability Info:

Applicable to aeronautical charts at 1:250,000 scales and smaller.

Label Info:

Label appropriately.

Tech Report: STANAG 3675 to DGIWG Portrayal

STANAG 3675 Feature Types and Portrayal	Related DGIWG Portrayal Elements

711d   AERONAUTICAL DATA

FLIGHT INFORMATION REGION AND UPPER INFORMATION REGION

retained as

SO_0757

Scale Applicability Info:

  Applicable to aeronautical charts at 1:250,000 scales and smaller.

Label Info:

  Label appropriately.

STANAG 3675 Feature Types and Portrayal	Related DGIWG Portrayal Elements

711e   AERONAUTICAL DATA

FLIGHT INFORMATION REGION AND UPPER INFORMATION REGION

retained as

SO_0756

Scale Applicability Info:

  Applicable to aeronautical charts at 1:250,000 scales and smaller.

Label Info:

  Label appropriately.

Tech Report: STANAG 3675 to DGIWG Portrayal

STANAG 3675 Feature Types and Portrayal	Related DGIWG Portrayal Elements

712   AERONAUTICAL DATA

SUB-FLIGHT INFORMATION REGION

retained as

SO_0701

Scale Applicability Info:

Applicable to aeronautical charts at 1:250,000 scales and smaller.

Label Info:

Label appropriately.

- -

STANAG 3675 Feature Types and Portrayal	Related DGIWG Portrayal Elements

713a   AERONAUTICAL DATA

AIRSPACE RESERVATION

replaced by

SO_0715   or   SO_0714   or   SO_0669

Scale Applicability Info:

Applicable to aeronautical charts at 1:250,000 scales and smaller.

Label Info:

Label appropriately with country code, type and numbers which indicate internationally regognized identification.

- -

Tech Report: STANAG 3675 to DGIWG Portrayal

STANAG 3675 Feature Types and Portrayal	Related DGIWG Portrayal Elements

713b   **AERONAUTICAL DATA**

AIRSPACE RESERVATION

replaced by

SO_0714   or   SO_0669   or   SO_0670

Scale Applicability Info:

Applicable to aeronautical charts at 1:250,000 scales and smaller.

Label Info:

Label appropriately with country code, type and numbers which indicate internationally regognized identification.

STANAG 3675 Feature Types and Portrayal	Related DGIWG Portrayal Elements

713c   **AERONAUTICAL DATA**

AIRSPACE RESERVATION

retained as

SO_0762

Scale Applicability Info:

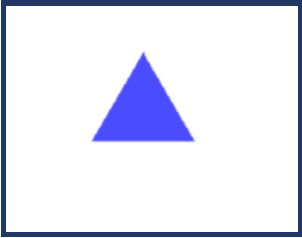Applicable to aeronautical charts at 1:250,000 scales and smaller.

Label Info:

Label appropriately with country code, type and numbers which indicate internationally regognized identification.

Tech Report: STANAG 3675 to DGIWG Portrayal

STANAG 3675 Feature Types and Portrayal	Related DGIWG Portrayal Elements

713d   AERONAUTICAL DATA

AIRSPACE RESERVATION

retained as

SO_0762

Scale Applicability Info:

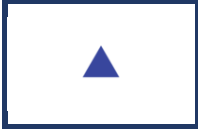Applicable to aeronautical charts at 1:250,000 scales and smaller.

Label Info:

Label appropriately with country code, type and numbers which indicate internationally regonized identification.

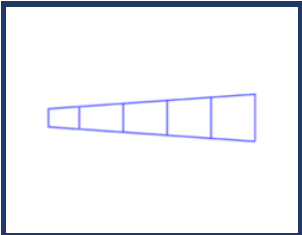| STANAG 3675 Feature Types and Portrayal	Related DGIWG Portrayal Elements

714a   AERONAUTICAL DATA

REPORTING POINT
   Compulsory

retained as

SO_0702

Scale Applicability Info:

Applicable to aeronautical charts at 1:250,000 scales and smaller.

Label Info:

Label appropriately.

Tech Report: STANAG 3675 to DGIWG Portrayal

STANAG 3675 Feature Types and Portrayal	Related DGIWG Portrayal Elements

714b   AERONAUTICAL DATA

REPORTING POINT

Non-compulsory (on request)

retained as

SO_0703

Scale Applicability Info:

Applicable to aeronautical charts at 1:250,000 scales and smaller.

Label Info:

Label appropriately.

STANAG 3675 Feature Types and Portrayal	Related DGIWG Portrayal Elements

715   AERONAUTICAL DATA

MILITARY CLIMB CORRIDOR

not used

Scale Applicability Info:

Applicable to aeronautical charts at 1:250,000 scales and smaller.

Label Info:

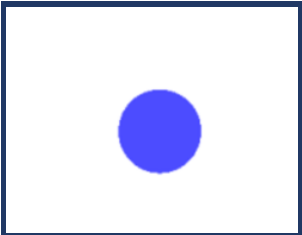Label appropriately.

Tech Report: STANAG 3675 to DGIWG Portrayal

STANAG 3675 Feature Types and Portrayal	Related DGIWG Portrayal Elements

716   AERONAUTICAL DATA

AERONAUTICAL GROUND LIGHT

retained as

SO_0749

Scale Applicability Info:
  Applicable to aeronautical charts at 1:250,000 scales and smaller.

Label Info:
  Label appropriately.

Related DGIF Elements

PO_0062   AerodromeBeaconP

STANAG 3675 Feature Types and Portrayal	Related DGIWG Portrayal Elements

717   AERONAUTICAL DATA

MARINE LIGHT

retained as

SO_0704

Scale Applicability Info:
  Applicable to aeronautical charts at 1:250,000 scales and smaller.

Label Info:
  Label appropriately.

Tech Report: STANAG 3675 to DGIWG Portrayal

STANAG 3675 Feature Types and Portrayal	Related DGIWG Portrayal Elements

718   AERONAUTICAL DATA

VISUAL GROUND SIGN

retained as

SO_0750

Label Info:

Label appropriately.

STANAG 3675 Feature Types and Portrayal	Related DGIWG Portrayal Elements

719a1   AERONAUTICAL DATA

VERTICAL OBSTRUCTION
   Single / Unlighted

replaced by

SO_0006   or   SO_0673   or   SO_0691

Related DGIF Elements

PO_1646   VerticalObstructionAllP

Scale Applicability Info:

  Applicable to all scales.

Remarks and Notes:

  1965: elevation of obstruction top above mean sea level(AMSL).
  (350) height of obstruction top above ground level (AGL).

Tech Report: STANAG 3675 to DGIWG Portrayal

STANAG 3675 Feature Types and Portrayal	Related DGIWG Portrayal Elements

719b1   AERONAUTICAL DATA

VERTICAL OBSTRUCTION
  Single / Lighted

replaced by

SO_0699   or   SO_0674   or   SO_0693

Scale Applicability Info:
  Applicable to all scales.

Related DGIF Elements

PO_1647   VerticalObstructionMultipleP

Remarks and Notes:
  1965: elevation of obstruction top above mean sea level(AMSL).
  (350) height of obstruction top above ground level (AGL).

STANAG 3675 Feature Types and Portrayal	Related DGIWG Portrayal Elements

719c1   AERONAUTICAL DATA

VERTICAL OBSTRUCTION
  Group / Unlighted

replaced by

SO_0010   or   SO_0675   or   SO_0692

Scale Applicability Info:
  Applicable to all scales.

Related DGIF Elements

PO_1647   VerticalObstructionMultipleP

Remarks and Notes:
  1965: elevation of obstruction top above mean sea level(AMSL).
  (350) height of obstruction top above ground level (AGL).

Tech Report: STANAG 3675 to DGIWG Portrayal

STANAG 3675 Feature Types and Portrayal	Related DGIWG Portrayal Elements

719d1   AERONAUTICAL DATA

VERTICAL OBSTRUCTION
Group / Lighted

replaced by

SO_0700   or   SO_0676   or   SO_0694

Scale Applicability Info:

Applicable to all scales.

Remarks and Notes:

1965: elevation of obstruction top above mean sea level(AMSL).
(350) height of obstruction top above ground level (AGL).

STANAG 3675 Feature Types and Portrayal	Related DGIWG Portrayal Elements

719e1   AERONAUTICAL DATA

VERTICAL OBSTRUCTION
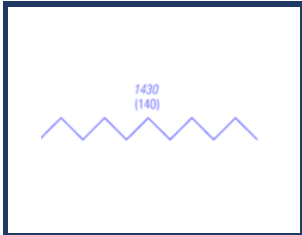**Installation with helicopter platform**

retained as

SO_0695

Scale Applicability Info:

Applicable to all scales.

Remarks and Notes:

300: elevation of obstruction top above mean sea level (AMSL)

Tech Report: STANAG 3675 to DGIWG Portrayal

STANAG 3675 Feature Types and Portrayal	Related DGIWG Portrayal Elements

720a   AERONAUTICAL DATA

LINEAR OBSTRUCTION
  Linear symbol

replaced by

SO_0753   or   SO_0752   or   SO_0755

STANAG 3675 Feature Types and Portrayal	Related DGIWG Portrayal Elements

720b1   AERONAUTICAL DATA

LINEAR OBSTRUCTION
  Point symbol

retained as

SO_0011

Tech Report: STANAG 3675 to DGIWG Portrayal

STANAG 3675 Feature Types and Portrayal	Related DGIWG Portrayal Elements
721 AERONAUTICAL DATA	**retained as**
MAXIMUM ELEVATION FIGURE	SO_0696

$$12^5$$

$$6_8$$

STANAG 3675 Feature Types and Portrayal	Related DGIWG Portrayal Elements
722 AERONAUTICAL DATA	**retained as**
ISOGONIC LINE	SO_0697

— —8°W— — —

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Tech Report: STANAG 3675 to DGIWG Portrayal

STANAG 3675 Feature Types and Portrayal	Related DGIWG Portrayal Elements

723   AERONAUTICAL DATA

HIGH INTENSITY RADIO TRANSMISSION AREA (HIRTA)

replaced by

SO_0698

STANAG 3675 Feature Types and Portrayal	Related DGIWG Portrayal Elements

801   NAUTICAL DATA

NAVAL PORT

not used

Tech Report: STANAG 3675 to DGIWG Portrayal

STANAG 3675 Feature Types and Portrayal	Related DGIWG Portrayal Elements

802   NAUTICAL DATA

PORT, HARBOR

not used

STANAG 3675 Feature Types and Portrayal	Related DGIWG Portrayal Elements

803   NAUTICAL DATA
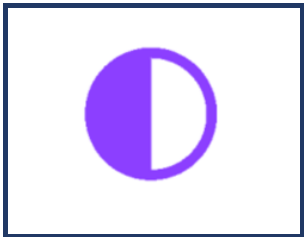
SMALL PORT

not used

STANAG 3675 Feature Types and Portrayal	Related DGIWG Portrayal Elements

804   NAUTICAL DATA

LOADING BERTH

not used

STANAG 3675 Feature Types and Portrayal	Related DGIWG Portrayal Elements

805   NAUTICAL DATA

LANDING STAGE FOR VEHICLES
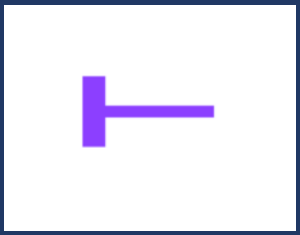

not used

Tech Report: STANAG 3675 to DGIWG Portrayal

STANAG 3675 Feature Types and Portrayal	Related DGIWG Portrayal Elements

806   NAUTICAL DATA

not used

LANDING STAGE FOR PASSENGERS

STANAG 3675 Feature Types and Portrayal	Related DGIWG Portrayal Elements

807   NAUTICAL DATA

not used

NAUTICAL OBJECT
   (of importance)

STANAG 3675 Feature Types and Portrayal	Related DGIWG Portrayal Elements

808   NAUTICAL DATA

not used

OTHER OBJECT
   (of importance)

Label Info:

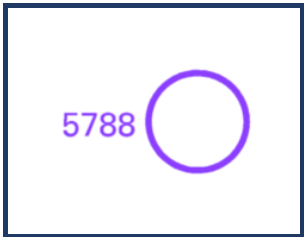   If required, the symbol may be identified by a number keyed to a
   legend.

STANAG 3675 Feature Types and Portrayal	Related DGIWG Portrayal Elements

809a   NAUTICAL DATA

not used

WRECK OR OBJECT

Label Info:

   If required, the symbol may be identified by a number keyed to a
   legend.

STANAG 3675 Feature Types and Portrayal	Related DGIWG Portrayal Elements

809b   **NAUTICAL DATA**   **not used**

WRECK OR OBJECT
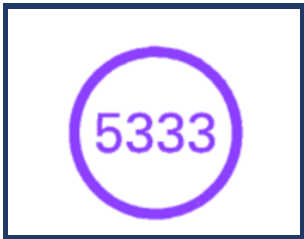
Label Info:

If required, the symbol may be identified by a number keyed to a legend. Obsolete symbol still appering on many existing charts.

STANAG 3675 Feature Types and Portrayal	Related DGIWG Portrayal Elements

810a   **NAUTICAL DATA**   **not used**

SONAR CONTACT
  (confirmed)

Label Info:

If required, the symbol may be identified by a number keyed to a legend.

Tech Report: STANAG 3675 to DGIWG Portrayal

STANAG 3675 Feature Types and Portrayal	Related DGIWG Portrayal Elements
810b NAUTICAL DATA	**not used**

SONAR CONTACT
(confirmed)

Label Info:

If required, the symbol may be identified by a number keyed to a legend.

STANAG 3675 Feature Types and Portrayal	Related DGIWG Portrayal Elements
811 NAUTICAL DATA	**not used**

COMPASS ROSE
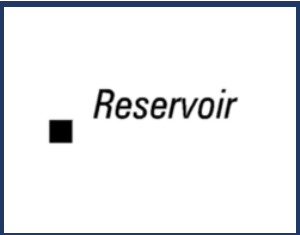
Remarks and Notes:

True north compass with magnetic variation indicated at center.

Tech Report: STANAG 3675 to DGIWG Portrayal

STANAG 3675 Feature Types and Portrayal	Related DGIWG Portrayal Elements

901   **MISCELLANEOUS CULTURAL FEATURES**

retained as

LOCATED OBJECT

SO_0001

Scale Applicability Info:

  Applicable to 1:250,000 scale and larger.

Label Info:

  Label appropriately.

STANAG 3675 Feature Types and Portrayal	Related DGIWG Portrayal Elements

902   **MISCELLANEOUS CULTURAL FEATURES**

retained as

LANDMARK FEATURE (NON-CHARACTERISTIC)

SO_0005

Scale Applicability Info:

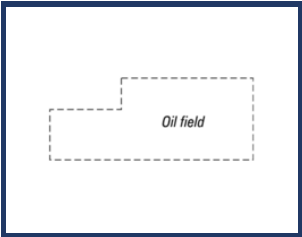 Applicable to 1:500,000 scale and smaller.

Label Info:

  Label appropriately.

Tech Report: STANAG 3675 to DGIWG Portrayal

STANAG 3675 Feature Types and Portrayal	Related DGIWG Portrayal Elements

903   MISCELLANEOUS CULTURAL FEATURES

retained as

AREA DELIMITING LINE

SO_0022

Scale Applicability Info:

Applicable to all scales.

Label Info:

Label appropriately.