

EXPRO National Manual for Projects Management

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Standard Drawing Template Guide

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Standard Drawing Template Guide

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1.0 PURPOSE

The purpose of this document is to provide guidance for using the discipline CAD templates to create drawings and background files for the Entity's and Architecture/Engineering (A/E) firm's use in the design of its projects if AutoCAD is chosen as the CAD authoring tool.

2.0 SCOPE

The AutoCAD drawing templates included in this document shall be used for all AutoCAD deliverables produced by the Contractors (A/E, EPC, Consultants, Construction Contractors, etc.) and their sub-contractors/suppliers. It is recommended that if the A/E is using a different CAD system (e.g.Microstation, TurboCAD etc.) that they prepare a similar set of templates compatible with their CAD system.

The AutoCAD templates below are available on the Mashroat portal:

| CAD TEMPLATE TYPE | TEMPLATE FILE NAME |
|---------------------------|--------------------|
| General | EPM-KED-TP-000001 |
| Architectural | EPM-KED-TP-000002 |
| Civil | EPM-KED-TP-000003 |
| Electrical | EPM-KED-TP-000004 |
| Fire Protection | EPM-KED-TP-000005 |
| Landscape | EPM-KED-TP-000006 |
| Mechanical | EPM-KED-TP-000007 |
| Piping/Plumbing | EPM-KED-TP-000008 |
| Structural | EPM-KED-TP-000009 |
| Geotechnical | EPM-KED-TP-000010 |
| Telecommunications | EPM-KED-TP-000011 |
| Safety & Security | EPM-KED-TP-000012 |
| Utilities | EPM-KED-TP-000013 |
| Process & Instrumentation | EPM-KED-TP-000014 |

Also included in each template are:

- A0, A1 and A3 border frame including attributed text for title block entries
 Refer to Exhibits A, B and C for border design
- Embedded graphical blocks for general (non-discipline specific) symbols
- Embedded functional blocks for symbols relevant to Architectural, Civil, Mechanical, Electrical, Fire
 Protection, Landscape and Piping/ Plumbing and other disciplines respectively. E.g. The Mechanical
 template will only have mechanical symbols embedded in addition to the general symbols. Refer to
 EPM-KED-GL-000001 Graphical Blocks and Symbols Guide.
- General layers in all templates and discipline specific layers in respective discipline templates



- Dimension Styles (typical and common to all disciplines)
- Text Styles (typical and common to all disciplines)

3.0 DEFINITIONS

For terms used in this document refer to document EPM-KE0-GL-000011 - Definitions and References.

4.0 REFERENCES

- National CAD Standard United States v6 https://www.nationalcadstandard.org/ncs6/index.php
- EPM-KE0-PR-000008 CAD Standards Procedure
- EPM-KED-GL-000001 Graphical Blocks and Symbols Guide

5.0 PROCEDURE

The Entity shall make the templates available to the A/E who will locate the CAD file templates at a network location accessible to their A/E Design Team. The A/E will select the appropriate elements from the CAD template for use on their projects. Double clicking the *.DWT file will open a new AutoCAD CAD file which contains the elements as set forth above.

Save the file to the desired working location and name in accordance with the CAD Standards Procedure referred to above.

The functional blocks embedded in the CAD template may not cover all the requirements of the project. Whenever the required symbols are not included in the CAD template, it is the A/E's responsibility to use standard symbols from IEC and/or ANSI libraries.

Notes to A/E Design Team:

- The attachments to this document are included for reference only, the master for all graphical/functional blocks are embedded in the various CAD templates.
- Drawing Units to be used and set in the templates is millimeters
- NCS blocks will default to factor = 25.4; other blocks will default to 1:1

6.0 ATTACHMENTS

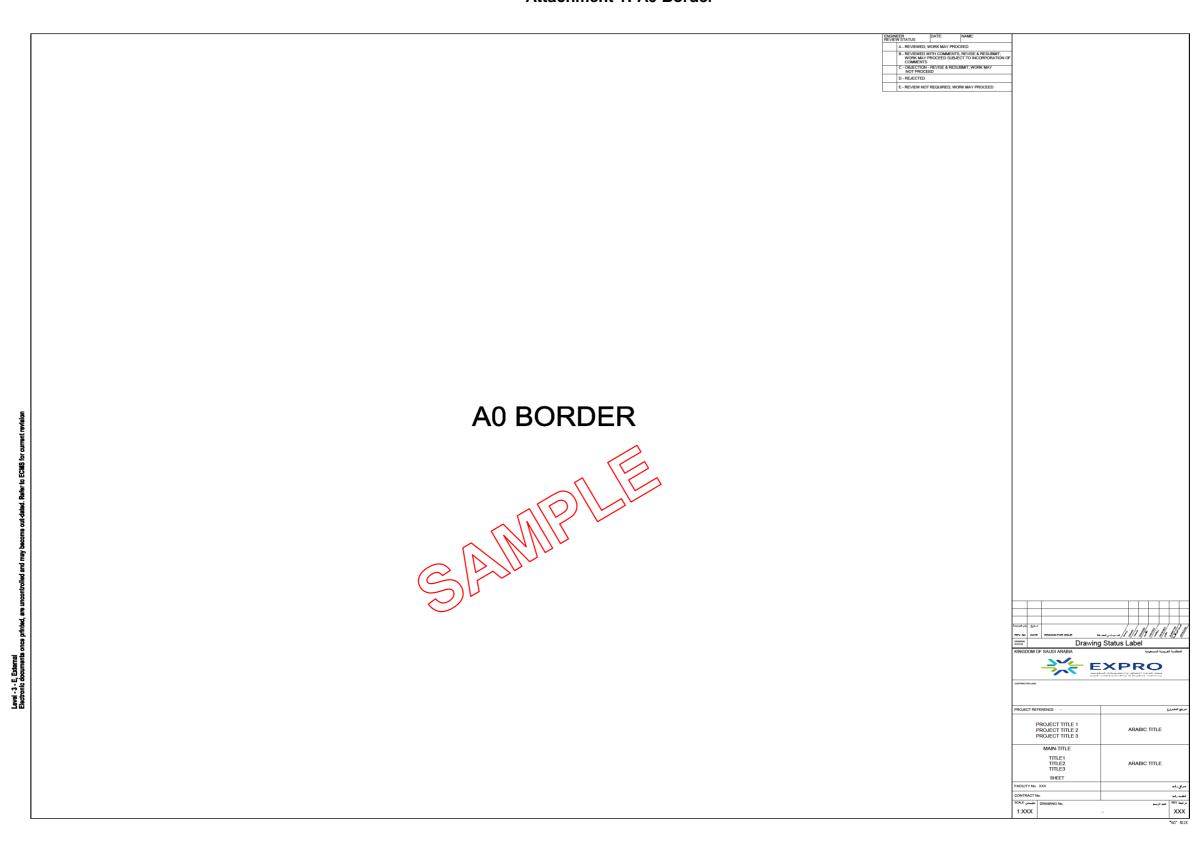
The following attachments show the configuration of the 3 drawing border for sizes: A0, A1 and A3.

- 1. A0 Border
- 2. A1 Border
- 3. A3 Border

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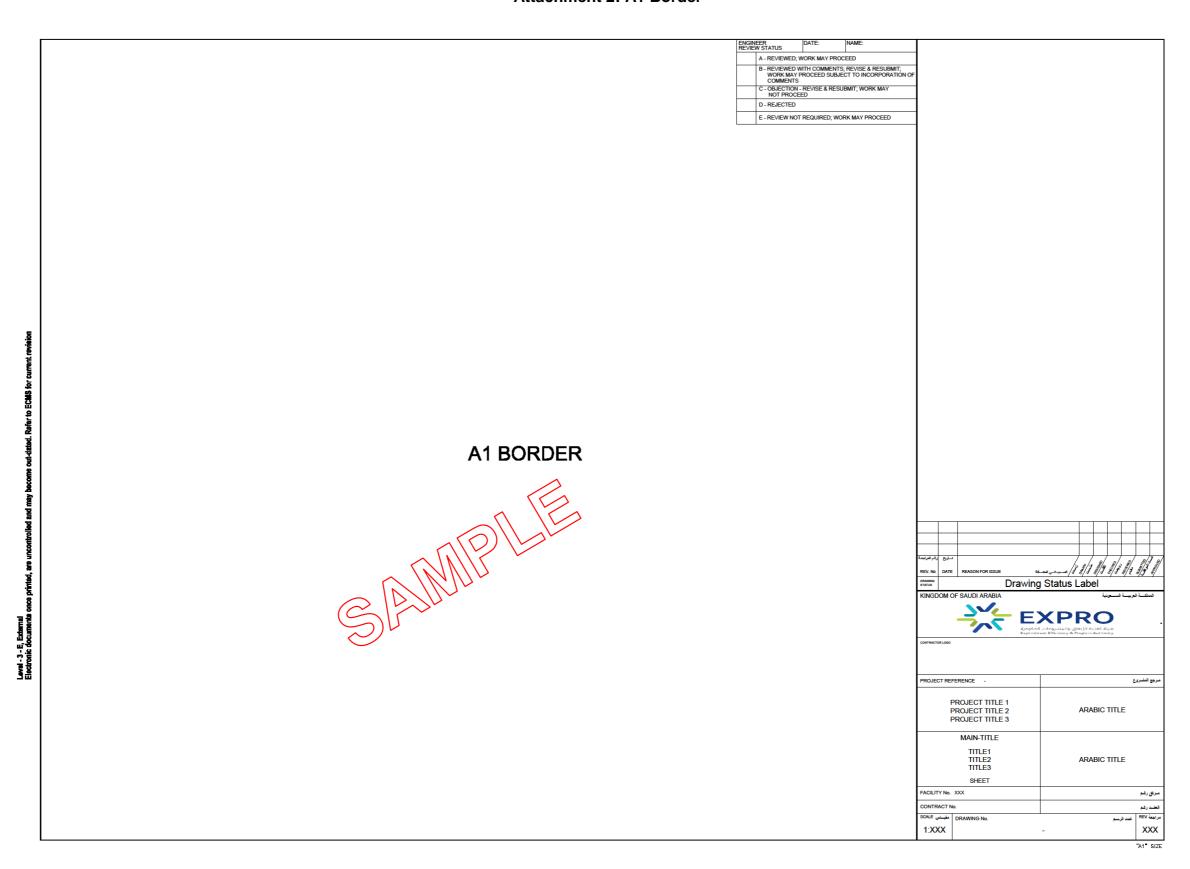


Attachment 1: A0 Border





Attachment 2: A1 Border





Attachment 3: A3 Border

