## ROAD DESIGN PRESENTATION STANDARDS

# DP012 TRAFFIC SIGNAL CONDUIT

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Rev	Change Description	Date	Author	Checked	Authorised
1	Initial Issue	23 December 2011	Natasha Stone Alison Freer	Jeremy Champion	Noel O'Callaghan
2	Design line marking, signal pole numbers and schedule added	17July 2012	Natasha Stone Alison Freer	Greg Gurner	Noel O'Callaghan
3	Scale of example drawing changed from 300 to 200	13 September 2012	Natasha Stone Alison Freer	Greg Gurner	Noel O'Callaghan
4	Drawing Type name made consistent with official naming.	31 October 2013	John Hastie	Greg Gurner	Noel O'Callaghan
5	PTSP points changed and Long/Lat added	21 January 2014	Natasha Stone	Greg Gurner	Noel O'Callaghan
6	Example drawings updated and as-constructed drawing requirements clause 2.5 added	8 September 2022	Yolanda Zhao	Yanyan Xiao	Collin Boulden
6.1	Minor update	24 February 2023	Yolanda Zhao	Yanyan Xiao	Collin Boulden

## **Document Amendment Record**

#### Document Management

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To be read in conjunction with CAD Manual & Presentation Guidelines DP001

### **DP012 TRAFFIC SIGNAL CONDUIT**

#### 1 Purpose

- 1.1 The Traffic Signal Conduit drawing is used to show a diagrammatic layout of the conduits connecting the traffic signal infrastructure.
- 1.2 For examples of this standard see attached drawings demonstrating typical conduit design for signalised intersection and pedestrian activated crossing.

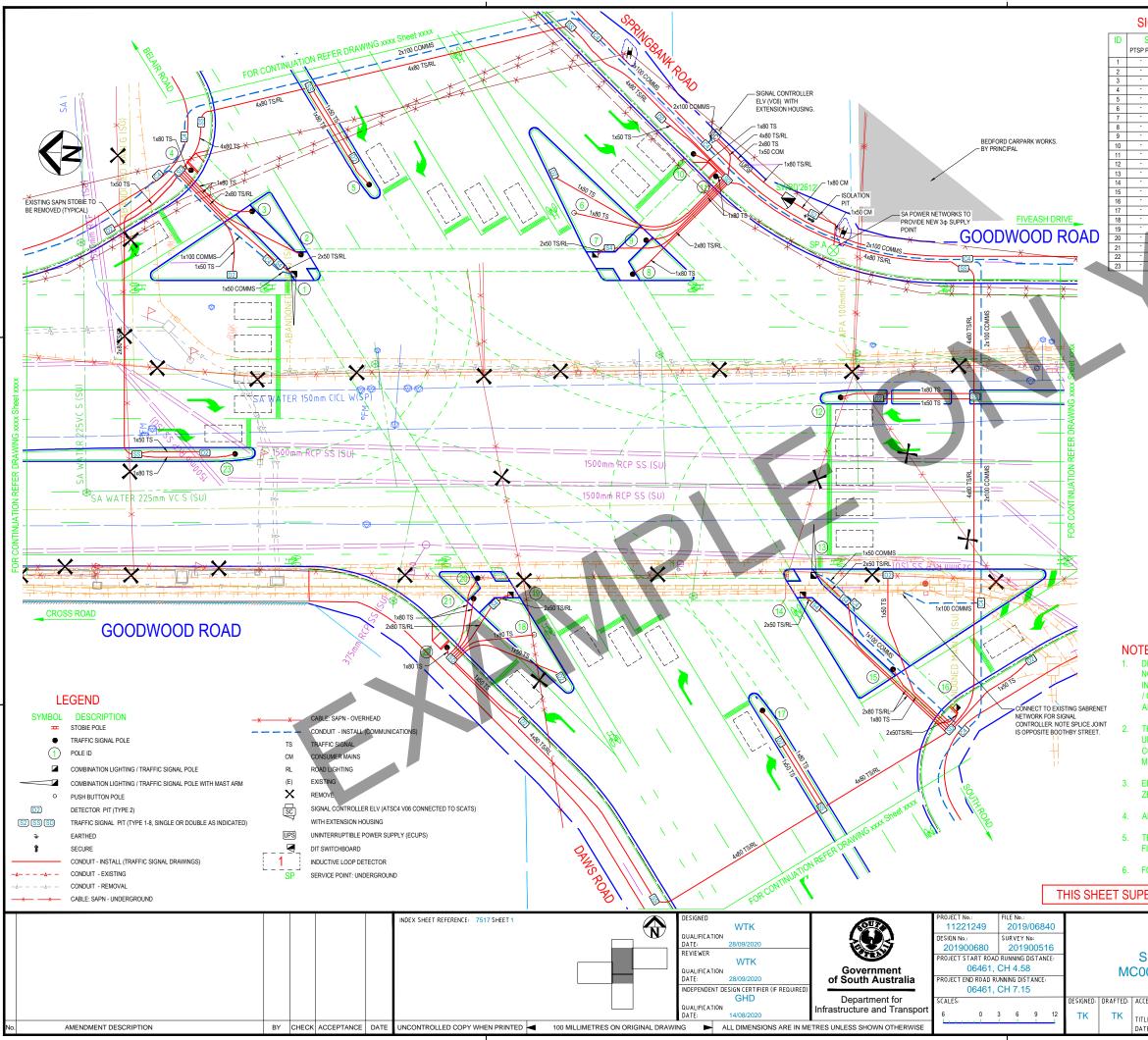
#### 2 Content

- 2.1 Layers to be shown as per the DIT Layer Matrix (DP001)
- 2.2 The following CAD entities are required:
  - a) All information in DP001 General Requirements.
  - b) Symbols showing the detector loops. (layer = D-ELEC-Signal Loop Detector)
  - c) Symbols showing the signal pole locations. (layer = D-ELEC-Signal Pole)
  - d) Text identifying signal pole. (layer = D-ELEC-Signal Pole ID number, Block provided)
  - e) Symbols showing the switchboard. (layer = D-ELEC-Switchboard)
  - f) Text identifying supply points. (layer = D-ELEC-Service Point ID label)
  - g) Lines showing the signal conduit. (layer = D-ELEC-Signal Conduit)
  - h) Text showing the signal conduit (number & size). (layer = D-ELEC-Signal Conduit Label) (Paper Space text height=2.5mm)
  - i) Symbols showing the signal pits. (layer = D-ELEC-Signal Pits)
  - j) Lines showing the combined lighting and signal conduit. (layer = D-ELEC-Combined Lighting Signal Conduit)
  - k) Text showing the combined lighting and signal conduit (number & size). (layer = D-ELEC-Combined Lighting Signal Conduit + Label) (Paper Space text height=2.5mm)
  - Symbols showing the combined lighting and signal pits. (layer = D-ELEC-Combined Lighting Signal pits)
  - m) Schedule showing "Signal Pole Mast Arm and Combined Pole Details" (layer = D-ENHA-Schedules)
- 2.3 Survey on the Traffic Signal Conduit Drawing shall be trimmed (i.e. survey detail should only be shown outside the extents of the design).
- 2.4 Existing Services shall be shown untrimmed and presented using DIT standard legends.
- 2.5 Additional requirements for the submission of as constructed traffic signal conduit drawing:
  - a) Constructional notes implying "something to be installed/modified/constructed" shall be deleted.
  - b) All infrastructure that has been removed shall be deleted from the drawing, not covered with "X" symbol.
  - c) Do not use "red denotes existing".

d) Lines showing "existing" or "install" traffic signal conduits from IFC drawing, i.e.

------ CONDUIT - EXISTING or CONDUIT - INSTALL (TRAFFIC SIGNAL DRAWINGS) shall be changed to

e) Texts showing new/existing shall be removed from the pole details table.



SIG	NAL PO	IF MAST	ARM ANI	COMBINA		OLE DETAILS
		MAST ARM	LIGHTING			
	ORIENTATION	OUTREACH	OUTREACH	MOUNTING HEIGHT	TYPE	
-	-	5.5m -	3.0m	12.0m	175W LED	NEW COMBO MASTARM NEW SIGNAL POLE
•	-	-	-	-	-	NEW SIGNAL POLE
-	-	-	-	-	-	NEW SIGNAL POLE NEW SIGNAL POLE
	-	-	-	-	-	NEW PUSHBUTTON POLE
-	-	-	3.0m	12.0m	2x175W LED	
-	-	-	-	-	-	NEW SIGNAL POLE
-	-	-	-	-	-	NEW SIGNAL POLE
-	-	-	-	-	-	NEW SIGNAL POLE
-	-	5.5m	3.0m	12.0m	175W LED	NEW COMBO MASTARM
-	-	-	3.0m	12.0m	175W LED	NEW COMBO POLE
	-	-	3.0m	12.0m	175W LED	NEW SIGNAL POLE NEW COMBO POLE
-	-	-	-	-	-	NEW SIGNAL POLE
		-	- 3.0m		- 175W LED	NEW PUSHBUTTON POLE NEW COMBO POLE
•	•		-	-	-	NEW SIGNAL POLE
-	-	-	-	-	-	NEW SIGNAL POLE
-	-	-	-	-	-	NEW SIGNAL POLE NEW SIGNAL POLE
			CIRC		\$	
	SHIPPLY POINT SERVICE POINT				LAMPS	
-			MEN		2 300 0	VDROP/ZLOOP
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	FOR PTZ	ESSENTIAL D	ISTRIBUTION	CIRCUIT DETAIL	S REFER I	DRG S-4055 Sheet 0073
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