

### 1.1 Introduction

The Abu Dhabi Utility Corridors Design Manual (UCDM) provides standards and guidelines for planning and allocation of utility corridors for new urban streets and the retrofitting of existing urban streets in the Emirate of Abu Dhabi. The Manual ensures utility corridors are designed and arranged to maximise the efficient use of space within a given right-of-way (RoW) width.

It is one of a suite of planning manuals prepared by the Abu Dhabi Urban Planning Council (UPC) to address the needs of the growing population and a desire to create 'Complete Streets' that ensure more comfortable, liveable and sustainable communities.

The Manual contains a concentration of agreed stakeholder requirements with respect to utility corridors. It has been produced in coordination with various stakeholders including, utility providers, the Department of Municipal Affairs (DMA), Abu Dhabi City Municipality (ADM), Al Ain City Municipality (AAM), Western Region Municipality (WRM), the Department of Transport (DoT), and other Government agencies within the Emirate of Abu Dhabi.

Moreover, it incorporates the findings of the UPC's benchmarking study which compared current local requirements to international standards and best practices.















The Manual is a living document and will evolve over time in response to changes and the unique pace of development within the region. This updated version, UCDM Version 1.1, entirely supersedes the previous version and is referred as 'the UCDM' or 'the Manual' in this document.

### 1.2 Purpose of the Manual

The UCDM is a planning document intended to:

- Specify the location and widths of the corridors for the various utilities as listed in Figure 1.1;
- Optimise the placement and installation of utilities within limited RoW;
- Facilitate coordination among stakeholders through a 'common language'; and
- Offer a step-by-step approach to the development of utility corridors arrangements.

#### Utility Corridors Considered in the UCDM

	WD	Potable Water Distribution Corridor
	WW	Wastewater Collection Corridor
	IRR	Irrigation Water Supply Corridor
	ST	Stormwater Drainage Collection/Inlet Corridor
	DCP	District Cooling Corridor
	PT	Power Transmission (HV) Corridor
	PD	Power Distribution (MV, LV) Corridor
	SL	Street Lighting Corridor
	TEL	Telecommunication Corridor
	TS	Traffic Surveillance Fibre Optic Corridor
	HS	High Security Fibre Optic Corridor
	G	Gas Supply Corridor
	TREE	Tree Corridor
	HC	House Connection Corridor

Solid waste collection is also addressed.

Figure 1.1: Utility corridors considered in the UCDM