

Grid & Datum - Local Plane Grid related to OS National Grid & Datum
By GNSS RTK Observations

ASSET FURNITURE			FENCE TYPES		
AC	AIR CONDITIONING	LC	LIGHTING COLUMN	UTL	UNABLE TO LIST
AD	ADDITIONAL	LP	LAMP POST	VB	VEHICLE DETECTION PAD
AL	ALUMINUM	MA	MANHOLE	VP	VENT PIPE
BA	BALANCE	MB	MANHOLE BRICK	WB	WASTELINE BOX
BB	BALANCE BRACKET	MC	MANHOLE COVER	WM	WATER METER
BD	BUILDING DOWNS	MD	MANHOLE	WO	WASTE PIPE
BE	BELT	ME	MEETING		
BI	BENCH	MM	MEETING MARKER		
BL	BUSH	MO	MOORING		
BO	BOLLARD	MP	MANHOLE PLATE		
BR	BRAKE	MS	MANHOLE SINK		
BS	BUSH	MT	MANHOLE TIE		
BU	BUSH	PA	PARKING AREA		
CB	CONTROL BOX	PC	PILLAR BOX		
CC	CONTROL BOX	PI	PILLAR		
CD	CONTROL TV	PL	PILLAR LINE		
CE	CEMENT	PM	PARKING MARKER		
CH	CHANCE CLOSET	PP	PUMP		
CI	CHANCE CLOSET	PS	PUMP SIGN		
CL	CLAMP	RD	ROAD		
CM	CLAMP	RE	ROAD		
CO	COAL	RH	ROAD HOLE		
CR	CRANE	RW	ROADWAY		
CS	CABLE	RP	ROADWAY		
CT	CABLE	SC	SPEED CAMERA		
DA	DANGER	SE	SPEED		
DB	DANGER	SI	SIGN		
DE	DECK	SP	SAFETY FENCE		
DF	FLOWER BED	ST	STOP		
DI	DRAIN	SV	STOP VALVE		
DL	DRILL	ST	STOP		
DM	DRAIN	SV	STOP VALVE		
DN	DRAIN	ST	STOP		
DO	DRAIN	SV	STOP VALVE		
DP	DRAIN	ST	STOP		
DR	DRAIN	SV	STOP VALVE		
DS	DRAIN	ST	STOP		
DT	DRAIN	SV	STOP VALVE		
DU	DRAIN	ST	STOP		
DV	DRAIN	SV	STOP VALVE		
EW	ELECTRIC	TR	TRUCK		
EX	ELECTRIC	TR	TRUCK		
FA	FENCE	TR	TRUCK		
FB	FENCE	TR	TRUCK		
FC	FENCE	TR	TRUCK		
FD	FENCE	TR	TRUCK		
FE	FENCE	TR	TRUCK		
FF	FENCE	TR	TRUCK		
FG	FENCE	TR	TRUCK		
FH	FENCE	TR	TRUCK		
FI	FENCE	TR	TRUCK		
FJ	FENCE	TR	TRUCK		
FK	FENCE	TR	TRUCK		
FL	FENCE	TR	TRUCK		
FM	FENCE	TR	TRUCK		
FN	FENCE	TR	TRUCK		
FO	FENCE	TR	TRUCK		
FP	FENCE	TR	TRUCK		
FQ	FENCE	TR	TRUCK		
FR	FENCE	TR	TRUCK		
FS	FENCE	TR	TRUCK		
FT	FENCE	TR	TRUCK		
FU	FENCE	TR	TRUCK		
FV	FENCE	TR	TRUCK		
FW	FENCE	TR	TRUCK		
FX	FENCE	TR	TRUCK		
FY	FENCE	TR	TRUCK		
FZ	FENCE	TR	TRUCK		
GA	GAS	TR	TRUCK		
GB	GAS	TR	TRUCK		
GC	GAS	TR	TRUCK		
GD	GAS	TR	TRUCK		
GE	GAS	TR	TRUCK		
GF	GAS	TR	TRUCK		
GG	GAS	TR	TRUCK		
GH	GAS	TR	TRUCK		
GI	GAS	TR	TRUCK		
GJ	GAS	TR	TRUCK		
GK	GAS	TR	TRUCK		
GL	GAS	TR	TRUCK		
GM	GAS	TR	TRUCK		
GN	GAS	TR	TRUCK		
GO	GAS	TR	TRUCK		
GP	GAS	TR	TRUCK		
GQ	GAS	TR	TRUCK		
GR	GAS	TR	TRUCK		</

	HEDGE		GATE		BUILDING
	TREE CANOPY		CONTROL STATION		TREE

Rev	Date	Drawn	Description	Chk'd	App'd



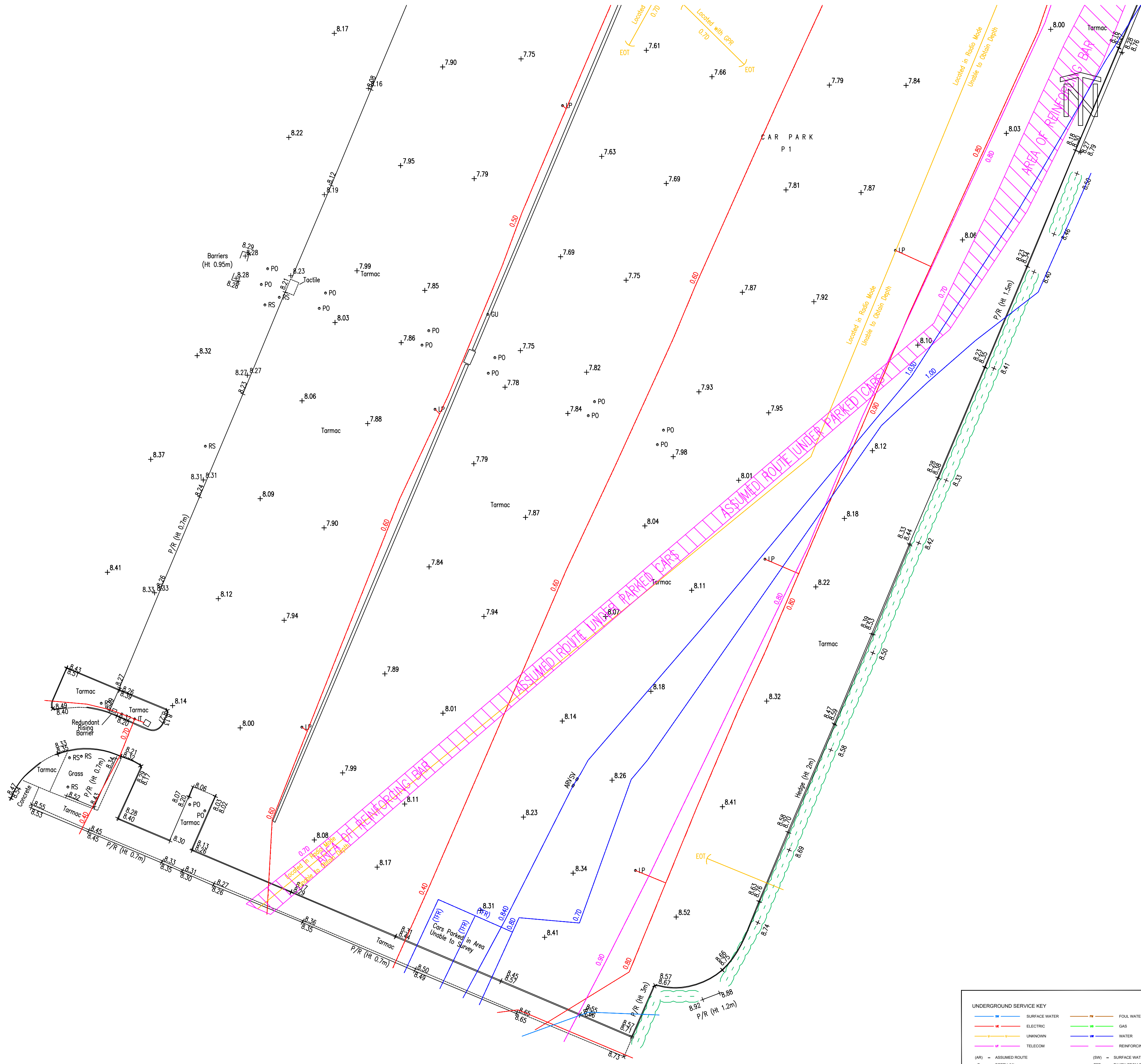
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TOPOGRAPHICAL SURVEY
SHEET 1 OF 9

Surveyed	PG	Drawn	AM	Drawn Date:
Checked	AM	Approved	NDO	13/07/2020
Scale 1:200 @ A1		Project 10690		Status
		CAD File \\NDO-585\Project\10690\DRAWINGS\10690_002.DWG		ORIG
Drawing No		10690 / 002 / 1		Rev 0



UNDERGROUND SERVICE KEY

—	SURFACE WATER	—	FOUL WATER
—	ELECTRIC	—	GAS
—	UNKNOWN	—	WATER
—	TELECOM	—	REINFORCING BAR

(AR) = ASSUMED ROUTE
D = DEPTH (M)
EOT = END OF TRACE
(PW) = FOUW WATER

(SW) = SURFACE WATER
TFR = TAKEN FROM RECORDS
UTL = UNABLE TO LIFT
UTS = UNABLE TO SURVEY

NOTE

Information concerning the location of services is given for your assistance and is intended for guidance only.
N D Oliver & Co Ltd does not accept liability for the accuracy or completeness of the information provided.

1. All underground services shown have been identified from above ground without excavation using electro-magnetic and/or ground penetrating radar (GPR) methods. Results using these methods are not infallible and we recommend that excavations are carried out to confirm any identifications, positions and depths of any services that could be affected by subsequent works.

2. Any areas on the drawing where services or features have not been shown are not necessarily clear of services or features but are an indication that no items have been identified during our investigations. All reasonable care and normal good practice should still be employed during design and construction processes.

3. We have used all reasonable care to research available service records, but the completeness or use of the service records supplied to or by us cannot be guaranteed. Therefore we cannot guarantee the accuracy of features annotated as 'taken from records' (TFR).

4. Depths obtained using electro-magnetic or GPR are affected by ground conditions and should be treated as indicative only. Electro-magnetic depths to utilities and services are generally taken to the centre of a feature. GPR depths to the top of a feature and drainage depth shown to inverts, unless otherwise indicated.

5. Drainage pipe sizes have been obtained without entering the chambers and therefore should be treated as approximate. Pipe dimensions which have not been obtained visually will be taken from records where available.

6. All services, drainage and utilities routes are assumed straight between access points, unless otherwise stated. The numbers of cables in runs will not be shown unless specifically requested. All services are below ground unless indicated as 'CH' (overhead).

NOTES

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By GNSS RTK Observations

STANDARD ABBREVIATIONS

STREET FURNITURE	LC - LIGHTING COLUMN LJ - LAMP POST AE - AERIAL MA - MANHOLE AV - AIR VALVE BA - BOLLARD BB - BOLLARD BD - BOLLARD BL - BOLLARD BO - BOLLARD BR - BOLLARD BS - BOLLARD BU - BOLLARD CA - CABLE BOX CB - CABLE BOX CC - CABLE BOX CD - CABLE BOX CE - CABLE BOX CF - CABLE BOX CG - CABLE BOX CH - CABLE BOX CI - CABLE BOX CJ - CABLE BOX CK - CABLE BOX CL - CABLE BOX CM - CABLE BOX CN - CABLE BOX CO - CABLE BOX CP - CABLE BOX CQ - CABLE BOX CR - CABLE BOX CS - CABLE BOX CT - CABLE BOX CU - CABLE BOX CV - CABLE BOX CW - CABLE BOX CX - CABLE BOX CY - CABLE BOX CZ - CABLE BOX	MO - MOORING BOLLARD MH - MANHOLE MP - MILE POST MR - MONUMENT MS - MONUMENT MT - MONUMENT MU - MONUMENT MV - MONUMENT MW - MONUMENT MX - MONUMENT MY - MONUMENT MZ - MONUMENT NA - NAME PLATE NB - NAME PLATE NC - NAME PLATE ND - NAME PLATE NE - NAME PLATE NF - NAME PLATE NG - NAME PLATE NH - NAME PLATE NI - NAME PLATE NJ - NAME PLATE NK - NAME PLATE NL - NAME PLATE NM - NAME PLATE NN - NAME PLATE NO - NAME PLATE NP - NAME PLATE NQ - NAME PLATE NR - NAME PLATE NS - NAME PLATE NT - NAME PLATE NU - NAME PLATE NV - NAME PLATE NW - NAME PLATE NX - NAME PLATE NY - NAME PLATE NZ - NAME PLATE	UN - UNABLE TO LIFT VSP - VEHICLE DETECTOR PAD WB - WHITE BLOW WD - WASTE WATER WO - WASTE OUT WP - WASTE PIPE RW - RAILING CB - CONCRETE PANEL HIS - HANDRAIL IR - IRON RAILING PIL - PALISADE PP - POST & PANEL PS - POST & PANEL PSB - PEDESTRIAN SAFETY BARRIER PW - POST & WIRE WM - WIRE MESH
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SYMBOLS

—	HEDGE	—	GATE	—	BUILDING
—	TREE CANOPY	—	CONTROL STATION	—	TREE

SHEET LAYOUT

N D OLIVER & CO
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Title

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TOPOGRAPHICAL SURVEY
SHEET 2 OF 9

Surveyed	PG	Drawn	AM	Drawn Date
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Scale	1:200 @ A1	Project	10690	Status
CAD File	10690_002.dwg	Project	10690_002.dwg	ORIG
Drawing No	10690 / 002 / 2	Rev	0	