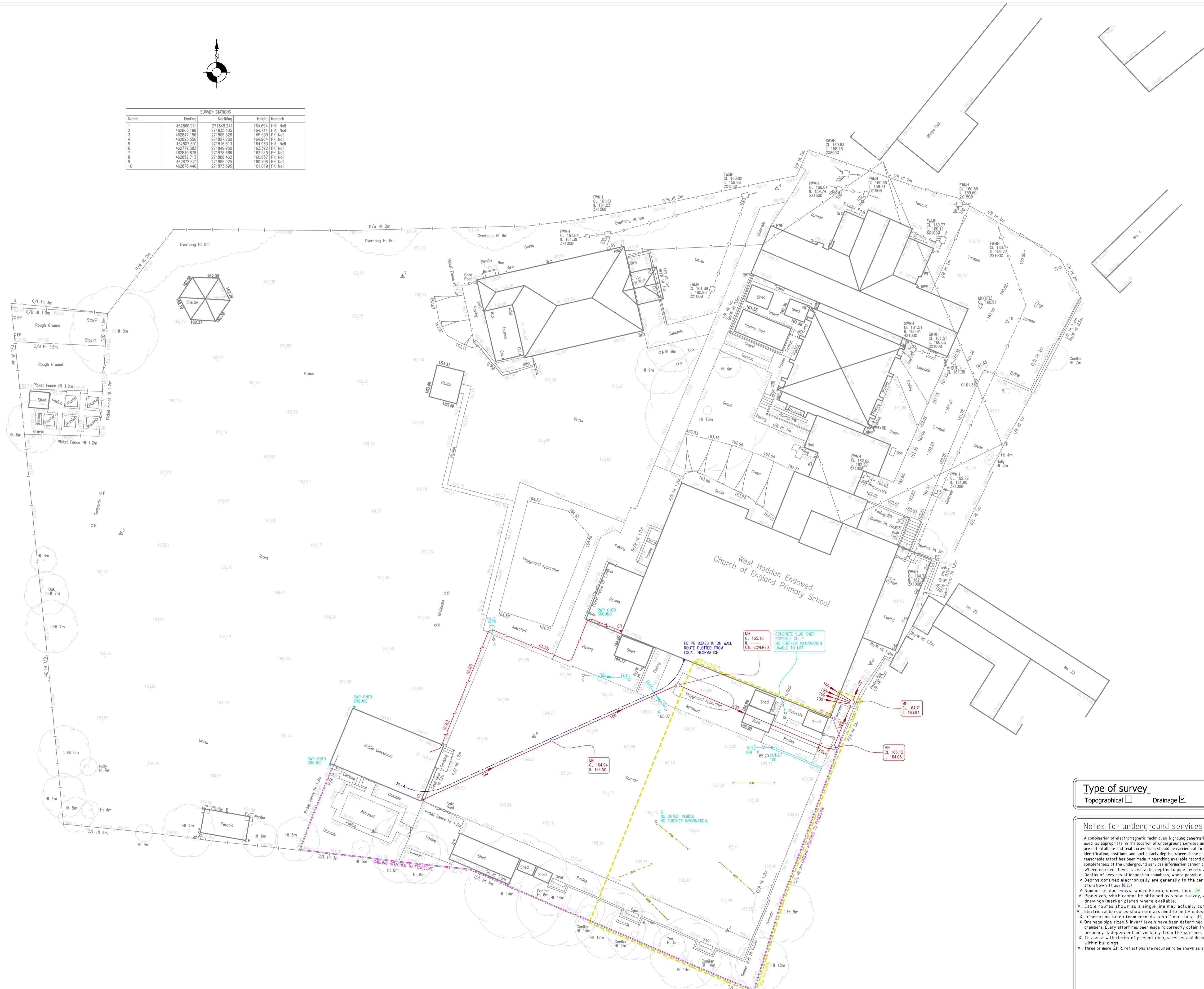


SURVEY STATIONS				
Name	Easting	Northing	Height	Remark
1	462866.911	271848.241	164.694	Ht/1 Nail
2	462863.189	271835.452	164.144	Ht/1 Nail
3	462847.186	271805.528	165.559	PK Nail
4	462825.556	271827.280	164.864	PK Nail
5	462807.631	271816.613	164.963	Ht/1 Nail
6	462779.383	271849.950	163.592	PK Nail
7	462810.878	271878.666	162.549	PK Nail
8	462852.713	271886.462	160.837	PK Nail
9	462872.671	271885.925	160.708	PK Nail
10	462878.446	271873.595	161.019	PK Nail



Key for underground services

Foul/Combined water drain	300P and above
Foul/Combined water drain	300P and above
Surface water drain	300P and above
Surface water drain	300P and above
Pumping main	
End of trace	EOT
Electric cables	
HV cables	
EHV cables	
Band of electric cables	
Earthing strap	E
Gas low pressure	
Gas medium pressure	
Gas high pressure	
Water	
Telephone	
Catv	
Multimedia ducts	TV, MU, EUSc
End of trench scar	
Undertended	
GPR reflection	GPR
Overhead service	o/h
Characteristic change	
Survey Boundary	

Where chamber extents are significantly greater than the cover size, their approximate extents are shown thus.

Inaccessible areas, shown thus:

Inaccessible areas due to vegetation, shown thus:

Abbreviations for underground services

AC	Asbestos cement	Msr	Marker post
ALK	Alkathene	NFI	No further information
AV	Air valve	NL-A	Not located - route assumed
BD	Back drop	NL-I	Not located - route plotted from on-site information
BH	Bore hole	NL-R	Not located - route plotted from records
Br	Brick	NL-T	Not located - plotted from visible trench scar detail
BTIC	British Telecom inspection chamber	NRV	Non return valve
BTMH	British Telecom manhole	NS	No signal
CA	Compressed air	OV	Overhead
CATV	Cable tv	PE	Polyethylene
CCTV	Closed circuit television	PI	Pot ended
CH	Coal hole	PR	Pipe riser
CI	Cast iron	PRV	Pressure reducing valve
CL	Cover level	PVC	Polyvinyl chloride
CM	Cable marker	RE	Rodding eye
CONC	Concrete	RS	Road sign
C/PIT	Catch pit	RWP	Rain water pipe
CU	Copper	S/A	Soakaway
CR	Cable riser	SC	Stop cock
DB	Direct buried	SE	Side entry
DI	Ductile iron	SI	Span iron
ECP	Electric cable pit	SL	Soffit level
EHV	Extra high voltage	SP	Soil pipe
EJB	Electric joint box	ST	Steel
EP	Electricity pole	SV	Stop valve
ER	Earthing rod	SVP	Soil vent pipe
ES	Earthing strap	SW	Sink waste
ET	Electricity trench	T/B	Telephone call box
FL	Floor level	FP	Feeder pillar
FI	Flood light	G	Gully
F/O	Fibre optic	GM	Gas meter
FP	Feeder pillar	GPR	Ground penetrating radar
G	Gully	GV	Gas valve
GM	Gas meter	HV	High voltage
GPR	Ground penetrating radar	IC	Inspection chamber
GV	Gas valve	I	Invert level
HV	High voltage	ITB	Trapped inlet
IC	Inspection chamber	T/O	Trapped outlet
I	Invert level	TP	Telephone pole
ITB	Trapped inlet	UTG	Unable to gain access
T/O	Trapped outlet	UTR	Unable to rod
TP	Telephone pole	UV	Unable to survey
UTG	Unable to gain access	LD	Land drain
UTR	Unable to rod	LH	Lamp hole
UV	Unable to survey	LP	Lamp post
LD	Land drain	LPG	Liquid petroleum gas
LH	Lamp hole	LV	Low voltage
LP	Lamp post	MDPE	Medium density polyethylene
LPG	Liquid petroleum gas	MH	Manhole
LV	Low voltage		
MDPE	Medium density polyethylene		
MH	Manhole		

Type of survey

Topographical Drainage Services

Notes for underground services

I. A combination of electromagnetic techniques & ground penetrating radar have been used, as appropriate, in the location of underground services and drains. The results are not infallible and trial excavations should be carried out to confirm service identification, positions and particularly depths, where these are critical. Although all reasonable effort has been made in searching available record drawings, the completeness of the underground services information cannot be guaranteed.

II. Where no cover level is available, depths to pipe inverts are shown thus: **0.954**

III. Depths of services at inspection chambers, where possible, are shown thus: **0.95d**

IV. Depths obtained electronically are generally to the centre of the service and are shown thus: **(0.80)**

V. Number of duct ways, where known, shown thus: **2W**

VI. Pipe sizes, which cannot be obtained by visual survey, are taken from record drawings/marker plates where available.

VII. Cable routes shown as a single line may actually consist of many cables.

VIII. Electric cable routes shown are assumed to be LV unless otherwise annotated.

IX. Information taken from records is suffixed thus: **(R)**

X. Drainage pipe sizes & invert levels have been determined without man entry into chambers. Every effort has been made to correctly obtain this information, however, accuracy is dependent on visibility from the surface.

XI. To assist with clarity of presentation, services and drains have been extended within buildings.

XII. Three or more GPR reflections are required to be shown as an assumed linear service.

REV NO REV NOTE DATE SIGNED DREW

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Client **Northamptonshire County Council**

Title **Location of Underground Services and Drains
West Haddon Primary School
The Green, West Haddon**

Surveyed **ISP/GB** Date **October 2017**
Drawn **ISP** Scale **1:200@A1**
Checked **MPW**

Drawing No. **52019** Rev.