A0

GRID NORTH

TREE SCHEDULE

No.	CIRC.	SPREAD Ø	HEIGHT
TE01	0.90	6	6
TE02	0.60	6	6
TE03	0.60	6	6
TE04	0.90	6	7
TE05	0.60	6	6
TE06	0.60	4	10
TE07	0.60	6	8
TE08	1.20	8	10
TE09	0.90	6	8
TE10	1.50	8	10
TE11	0.90	6	12
TE12	0.60	10	6
TE13	0.90	8	12
TE14	1.20	12	14
TE15	0.60	4	10
TE16	0.90	8	14
TE17	0.90	8	14
TE18	0.90	8	14
TE19	0.60	6	10
TE20	0.60	6	10
TE21	0.90	8	12
TE22	0.60	6	12
TE23	0.60	4	8
TE24	1.20	8	10
TE25	0.60	6	10

No.	CIRC.	SPREAD Ø	HEIGHT
TE26	0.60	6	10
TE27	0.90	8	10
TE28	0.90	8	10
TE29	0.90	6	9
TE50	0.90	8	9
TE31	0.90	8	8
TE52	1.50	12	14
TE53	1.00	10	14
TE54	1.20	10	12
TE55	0.90	8	12
TE56	0.60	6	12
TE57	0.60	6	10
TE58	0.90	12	15
TE59	0.60	6	12
TE60	0.60	6	12
TE61	0.90	8	14
TE62	0.60	6	12
TE63	0.60	6	12
TE64	0.90	10	14
TE65	0.60	6	8
TE66	0.60	6	8
TE67	0.60	6	8
TE68	0.90	10	10
TE69	0.90	10	12
TE70	0.60	8	10
TE71	1.50	14	14
TE72	0.45	6	10
TE73	0.60	6	12
TE74	0.60	6	12
TE75	0.60	6	12

No.	CIRC.	SPREAD Ø	HEIGHT
TE51	0.90	12	14
TE52	1.20	12	16
TE53	1.20	12	16
TE54	0.90	10	14
TE55	0.90	10	14
TE56	0.90	10	14
TE57	0.90	8	14
TE58	0.60	8	14
TE59	0.60	8	14
TE60	0.90	10	14
TE61	0.90	8	12
TE62	0.60	6	12
TE63	0.60	6	12
TE64	0.90	10	14
TE65	0.60	6	8
TE66	0.60	6	8
TE67	0.60	6	8
TE68	0.90	10	10
TE69	0.90	10	12
TE70	0.60	8	10
TE71	1.50	14	14
TE72	0.45	6	10
TE73	0.60	6	12
TE74	0.60	6	12
TE75	0.60	6	12

No.	CIRC.	SPREAD Ø	HEIGHT
TE76	0.90	12	14
TE77	1.50	14	14
TE78	0.90	12	10
TE79	0.90	10	14
TE80	0.90	10	12
TE81	1.20	12	14
TE82	0.90	12	14
TE83	0.60	4	4
TE84	0.60	8	14
TE85	0.90	12	12
TE86	0.60	6	6
TE87	1.20	12	14
TE88	M/S	8	14
TE89	0.60	4	10
TE90	0.60	6	6
TE91	1.20	10	14
TE92	0.90	8	14
TE93	0.90	8	12
TE94	1.20	8	14
TE95	0.60	6	10
TE96	1.20	10	14
TE97	0.90	6	14

TREE NOTES:
A) MB – MULTIPLE BOLES. TB - TWIN BOLES.
B) CIRC. – TRUNK CIRCUMFERENCE MEASURED AT APPROXIMATELY 1.5M ABOVE GROUND LEVEL.
C) SPREAD – DIAMETER OF CANOPY. (TREE SPREADS ARE INDICATIVE ONLY AND ARE REPRESENTATIVE OF THE GENERALISED CANOPY SIZE, AND MAY NOT REPRESENT THE TRUE CANOPY POSITION AS OUTLINED ON SITE – TREE BOLES MAY NOT SIT CENTRAL TO THE CANOPY)
D) HEIGHT – APPROXIMATE HEIGHT TO TOP OF CANOPY – ESTIMATED FROM GROUND LEVEL.
E) ATTETION SHOULD BE PAID TO THE ORIGINAL TOPOGRAPHICAL BRIEF AS TO WHAT TREES HAVE ACTUALLY BEEN SCHEDULED. (I. THOSE TREES LARGER THAN SPECIFIED IN THE BRIEF MAY NOT HAVE BEEN SURVEYED AS THIS IS NORMALLY THE CASE UNLESS OTHERWISE SPECIFIED AS INCLUDING "OFF SITE" TREES).

SERVICES LEGEND

- BT — UNDERGROUND BT CABLE(S)
- COM — UNDERGROUND COMMUNICATIONS CABLE(S)
- CTV — UNDERGROUND CABLE TV CABLE(S)
- E — UNDERGROUND ELECTRIC CABLE(S)
- FO — FIBREOPTIC CABLE(S)
- GAS — GAS MAIN
- HW — HOT WATER PIPE
- OBT — OVERHEAD BT CABLE(S)
- OE — OVERHEAD ELECTRIC CABLE(S)
- OHC — UNIDENTIFIED OVERHEAD CABLE(S)
- P — UNIDENTIFIED PIPE
- SEC — SECURITY CABLING
- S.L. — LIGHTING CIRCUIT (WHERE IDENTIFIED)
- TRAFFIC SIGNAL CABLE(S)
- UID–EL — UNIDENTIFIED ELECTRO LOCATION TRACE
- UID–GPR — UNIDENTIFIED GPR TRACE
- W — WATER SERVICE
- WM — WATER MAIN
- FOUL SEWER
- SURFACE WATER SEWER
- COMBINED SEWER
- RODDING MAIN
- GAS AR — ASSUMED ROUTES
- GAS TFR — SERVICES TAKEN FROM RECORDS
- SERVICES SURVEY AREA
- SBC 01, 16.8.03 — UTILITIES COMMENT BOX
- Dep: 0.60m — DEPTH TO SERVICE (m)

INFORMATION SHOWN AS TFR HAS NOT BEEN PROVEN ON SITE

UTILITIES ABBREVIATIONS

1D 3C	1 DUCT, 3 CABLES	DTS	DEPTH TO SEPTIC
AC	ASSUMED CENTRE	DTT	DEPTH TO TRENCHTOP
ACP	ASSUMED CONNECTION POINT	EOT	END OF TRACE
CB	CONCRETE BENCHING	FW	FOUL WATER SEWER
CC	CONCRETE CHAMBER COVER	GM	GAS MAIN/GAS GOVERNOR
COP	CABLE DRAW PIT	IL	INVERT LEVEL
CL	COVER LEVEL	PCC	PRECAST CONCRETE CHAMBER
CP	CONCRETE ELECTIC CHAMBER	PCP	PRECAST CONCRETE CHAMBER
DIL	DRAWN LEVEL	SL	SOFFIT LEVEL
DO	DEPTH TO CROWN	SW	SURFACE WATER SEWER
DS	DEPTH TO SOLE	SWC	SURFACE WATER CHANNEL
DTB	DEPTH TO BASE	UTL	UNABLE TO LIFT
DTI	DEPTH TO INVERT	UTR	UNABLE TO SURVEY
		VIT	UNABLE TO TRACE

AVAILABILITY OF STATUTORY UNDERTAKERS RECORDS DRAWINGS

TYPE	COMMENTS	TYPE	COMMENTS
BORDER	NO	CABLE TV	NO
WATER MAIN	NO	ELECTRICITY	YES
GAS MAIN	YES	OIL PIPELINES	NO
BT	YES	OTHER	NO

SERVICE LOCATION

ELECTROMAGNETIC/RADIO AND/OR GROUND PROBING RADAR (GPR) TECHNIQUES HAVE BEEN USED TO LOCATE UNDERGROUND SERVICES WHERE POSSIBLE. IT IS OUR OPINION THAT THESE METHODS AND IT'S INTERPRETATION RECOMMENDED THAT FINAL CONFIRMATION OF SERVICE POSITION AND DEPTH BE MADE BY EXCAVATION, AND DEPTH OF SERVICES. ALL READER/CABLE CARE HAS BEEN TAKEN AND EFFORT MADE TO ENSURE THE ACCURACY OF THE INFORMATION SHOWN HEREON, BUT NO LIABILITIES OF INFORMATION SUPPLIED TO AND BY TOWER SURVEYS LTD CANNOT BE GUARANTEED

IT SHOULD BE NOTED THAT CERTAIN TYPES OF SERVICES, SUCH AS PLASTIC OR CONCRETE PIPES, ARE DIFFICULT TO LOCATE BY ELECTROMAGNETIC METHODS AND ARE NOT TRACEABLE BY CONVENTIONAL ELECTRODETECTION METHODS. FOR THIS REASON, THE ABSENCE OF SERVICES SHOWN ON THE SURVEY DRAWING SHOULD NOT BE TAKEN AS AN ALTERNATIVE SIGNAL OF DETAILING THE INFORMATION GIVEN.

DEPTHS DERIVED USING INFORMATION TO HAND ARE ASSUMED TO BE PROVIDED FROM RELIABLE SOURCES AND ARE GIVEN AS AN INDICATION ONLY.

NUMBERS OF CABLES IN RUNS ARE NOT DETERMINED UNLESS SPECIFICALLY INVESTIGATED. ALL DETAILED TRACES DRAWITO ARE ASSUMED STRAIGHT UNLESS OTHERWISE NOTED.

DEPTHS TO TRACES METALLIC PIPEWORK REFER TO PIPE CENTRE.

PITS SHOWN ARE ASSUMED STRAIGHT BETWEEN CHAMBERS UNLESS OTHERWISE INDICATED.

ALL SERVICES ARE UNDERGROUND EXCEPT WHERE INDICATED.

PLEASE NOTE THAT TOWER SURVEYS LTD ARE NOT PERMITTED TO ASSERT ANY TECHNOLOGICAL/OPTICAL APPARATUS, OTHER THAN EXISTING EXPOSED FEATURES, THEREFORE THIS INFORMATION CAN NOT APPEAR ON SURVEY DRAWINGS.

A FULL SET OF TOWER SURVEYS TERMS AND LIMITATIONS IS AVAILABLE ON REQUEST.

PLEASE REFER TO TOPOGRAPHIC SURVEY DRAWING N-N350_201_ISSUE01.

INFORMATION SHOWN AS TFR HAS NOT BEEN PROVEN ON SITE.

PLEASE NOTE EUR DUCLARYING CONVENTION CONTAINS FURTHER INFORMATION.

© IS INTENDED THAT THIS DRAWING BE REPRODUCED IS COLOUR.

Woolram Wygate

NOTES

1. SURVEY CONTROL:

A) SURVEY GRID (HORIZONTAL):

THIS SURVEY IS ORIENTATED TO ORDNANCE SURVEY GRID NORTH. THE SURVEY IS TO A PLANE GRID. HORIZONTAL MEASUREMENTS TAKEN FROM THIS SURVEY WILL BE GROUND DISTANCE.

FULL ORDNANCE SURVEY CO-ORDINATES CAN BE CALCULATED BY APPLYING THE LOCAL SCALE FACTOR (LSF) ABOUT THE POINT NAMED W001, WITH CO-ORDINATES 523902.115mE 323389.412mN.

SHIFT: NOT REQUIRED
SCALE: LSF = 0.999792
ROTATION: NOT REQUIRED.

THE LOCAL SCALE FACTOR (LSF) APPLICABLE TO THIS SITE IS 0.999792. CALCULATED USING STANDARD TABULATED DATA, THE STE CENTRE CO-ORDINATES HAVE BEEN TAKEN AS BEING 524000mE 323400mN.

(FOR THIS RELATIVELY LOW LEVEL SITE, MEAN SEA LEVEL CORRECTIONS (MSL) ARE DEEMED TO BE INSIGNIFICANT AND HAVE THEREFORE NOT BEEN APPLIED.)

B) VERTICAL DATUM:

ALL ITTUDES FOR THE CON TROL ARE BASED UPON GPS DERIVED HEIGHTS AND CONVERTED TO ORTHOMETRIC HEIGHTS (ORDNANCE DATUM NEWLYN - OSN) USING OSGM02 TRANSFORMATION PARAMETERS.

C) GPS CONTROL

THE CO-ORDINATE SYSTEM USED FOR THE PRIMARY CONTROL IS OSGB36. THIS HAS BEEN CALCULATED FROM ETRS89 USING OSTN02 TRANSFORMATION PARAMETERS.

METHOD: FOR THIS PARTICULAR PROJECT, THE "TRIMBLE VRS NOW" NETWORK HAS BEEN USED. OBSERVATIONS HAVE BEEN TAKEN ON THE FOLLOWING DATE: 13/12/2011.

MANUFACTURERS QUOTED ACCURACY IS RMSE 10 – 20 mm N PLAN AND 20 – 30 mm IN HEIGHT, HOWEVER, RESULTS MAY VARY DURING THE DAY AND CERTAIN AREAS OF THE SITE MAY BE AFFECTED BY TREES, ETC. IN ORDER TO ENSURE SALIENT CONTROL AND WHEREVER POSSIBLE AND PRACTICAL, TOWER SURVEYS HAVE USED AN 'OPEN SKY' WITH GOOD SATELLITE GEOMETRY SO AS TO MAINTAIN THE HIGHEST ACCURACY POSSIBLE.

IT SHOULD BE NOTED THAT THE AFOREMENTIONED METHOD MAY NOT SATISFY SUCH ORDAINSATIONS AS THE ENVIRONMENT AGENCY WHERE MORE RIGOROUS SOLUTIONS, SUCH AS A TRADITIONAL POST PROCESSED STATIC GPS SOLUTION, MAY BE REQUIRED.

2. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL OTHER RELEVANT DRAWINGS/DOCUMENTATION, NAMELY: R-N5350_202 - ELEVATIONS

3. CHECK SCALE BAR AND GRID BEFORE TAKING NON-FIGURED DIMENSIONS FROM THIS DRAWING.

4. IF IN DOUBT ASK.

LEGEND

- SPOT LEVEL
- SURVEY STATION
- SAPLING
- BUSH/ESS/HUB
- HEDGE/AREA OF UNDERGROWTH
- TREE (INDICATIVE ONLY)
- BUILDING
- CANOPY
- RETAINING WALL
- GATE
- OVERHEAD BT CABLE
- FENCE WITH DESCRIPTION
- CB — CLOSE BOARDED
- CL — CHAIN LINK
- SW — SHOW WALING
- PIC — POST AND CHAIN
- WIM — WIRE MESH

ABBREVIATIONS

B	BOLLARD	P	POLE
CAB	CABINET, CABINET	PO	POST
CO	COLUMN	RE	RODDING EYE
CPY	CANOPY	RFWG	ROOF/RIDGE LEVEL
DK	DROP KERB	RWP	RAINWATER PIPE
DP	DOWN PIPE	SPB	SIGN POST/BOARD
EP	ELECTRIC PIPE	TC	TOP OF CURB
FFL	FINISHED FLOOR LEVEL	TAP	WATER TAP
G	GULLY	THL	THRESHOLD LEVEL
IC	INSPECTION COVER	TP	TELEPHONE POLE
LP	LAMP POST	UB	UNDERSIDE LEVEL
MHC	MANHOLE CIRCULAR		

STATION CO-ORDINATES

STATION	EASTING	NORTHING	LEVEL	DESCRIPTION
STN1	524012.40	323450.12	2.83	SURVEY NAIL
STN2	524005.97	323393.76	3.00	SURVEY NAIL
STN3	524005.16	323387.87	3.00	SURVEY NAIL
STN4	523977.03	323446.86	3.00	SURVEY NAIL
STN5	523930.87	323366.62	3.14	SURVEY NAIL
STN6	523791.94	323328.71	2.99	SURVEY NAIL
STN7	523917.46	323371.33	3.06	SURVEY NAIL
STN8	523964.52	323410.43	3.04	SURVEY NAIL
STN9	523909.58	323421.22	3.12	SURVEY NAIL
STN10	523911.25	323403.87	3.10	SURVEY NAIL
STN11	523934.99	323420.46	2.99	SURVEY NAIL
STN12	523927.82	323399.98	3.01	SURVEY NAIL
STN13	523946.38	323380.84	3.03	SURVEY NAIL
STN14	523969.43	323407.33	3.03	SURVEY NAIL
STN15	523979.94	323391.01	3.09	SURVEY NAIL
STN16	523987.01	323399.93	3.11	SURVEY NAIL
STN17	523982.91	323428.27	3.34	PEG & NAIL
STN18	523895.82	323400.28	3.31	PEG & NAIL
STN19	523886.11	323391.65	3.22	PEG & NAIL
STN20	523951.71	323443.21	3.06	SURVEY NAIL
STN21	523929.85	323442.03	3.13	SURVEY NAIL
STN22	523918.71	323435.85	3.09	SURVEY NAIL

UNLESS OTHERWISE STATED THE SURVEY STATIONS LISTED ABOVE ARE ONLY INTENDED TO BE USED FOR TOPOGRAPHICAL SURVEYS AT THE STATED SCALE.

DUE CONSIDERATION SHOULD BE GIVEN TO LONG-TERM STABILITY OF SURVEY STATION MARKERS.

GENERAL

- NO ALLOWANCE HAS BEEN MADE FOR SUB SURFACE ENTRY INTO MANHOLES OR OTHER CHAMBERS OR VOIDS BELOW GROUND LEVEL, THEREFORE ANY DETAILS RELATING TO DEPTHS, SIZES ETC. ARE TAKEN FROM ABOVE GROUND AND AS SUCH WILL BE APPROXIMATE ONLY.
- THE CONTRACTOR IS TO CHECK AND VERIFY ALL CRITICAL DIMENSIONS AND LEVELS BEFORE WORK STARTS.
- BURIED SERVICES SHOWN ON THIS DRAWING MAY BE ASSUMED ROUTES AND WILL NORMALLY BE OF UNKNOWN CONDITION, CONTRACTORS SHOULD UNDERTAKE SUITABLE VALIDATION PROCESSES AND WHERE PARTICULAR CARE DURING EXCAVATION WORK SAFE DIGGING PRACTICES SHOULD BE FOLLOWED.
- SHOULD THERE BE ANY CONFLICT BETWEEN THE DETAILS INDICATED ON THIS DRAWING AND THE ACTUAL SITUATION ENCOUNTERED DURING WORKING, THEN TOWER SURVEYS SHOULD BE INFORMED PRIOR TO CONSTRUCTION ON SITE.
- IT IS IMPORTANT TO NOTE THAT THE SAME ACCURANCES IMPLIED BY THE PLOTTING SCALE ARE EQUALLY APPLICABLE TO DIGITAL DATA SUPPLIED FOR CAD USE.
- EVERY EFFORT HAS BEEN MADE TO SURVEY ALL ABOVE GROUND FEATURES, HOWEVER, IT SHOULD BE BORNE IN MIND THAT SOME MAY BE OBSCURED AT THE TIME OF SURVEY.
- VISIBLE FEATURES IN THE VICINITY OF THE BOUNDARIES, AS SHOWN ON THIS SURVEY, MAY NOT REPRESENT THE EXTENT OF LEGALLY CONVEYED OWNERSHIP.

DESCRIPTION	REV	DATE	DRWN	CHKD	APPR

DRAWING STATUS

INFORMATION

Tower Surveys Ltd
Chartered Surveyors
Geomatics and Engineering & Building
RICS
VYVAN HOUSE
VYVAN AVENUE
NOTTINGHAM
NG8 3GF
TEL:+44 (0)115 9672120
FAX:+44 (0)115 9672120
info@towersurveys.co.uk
www.towersurveys.co.uk

CLIENT

MOUCHEL

PROJECT TITLE

SPALDING PRIMARY SCHOOL
SPALDING

DRAWING DETAIL

BURIED SERVICES SURVEY AS OF 21 DEC 2011

DRAWN	D Riddick	DATE	DECEMBER 2011
PROJECT ENGINEER	J Galtress		
CHECKED	S Anderton	SCALE	1:200 (WHEN PLOTTED @ A0)
APPROVED	D Riddick		
DRAWING NUMBER	R-N5350/101	REVISION	

0 — 20 METRES

CAD REFERENCE
\\2011Projects\R-N5350\R-N5350_101_Issue01

CTB REFERENCE
\\CTB-files\TS-Utils-v01.ctb

© Tower Surveys Limited. Sent the copyright of this drawing. Their written consent must be obtained before this drawing or copies of it are used for any purpose other than that for which it was supplied.