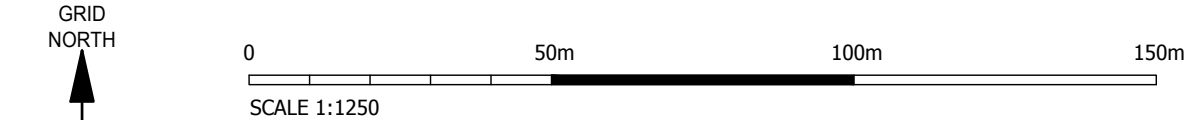


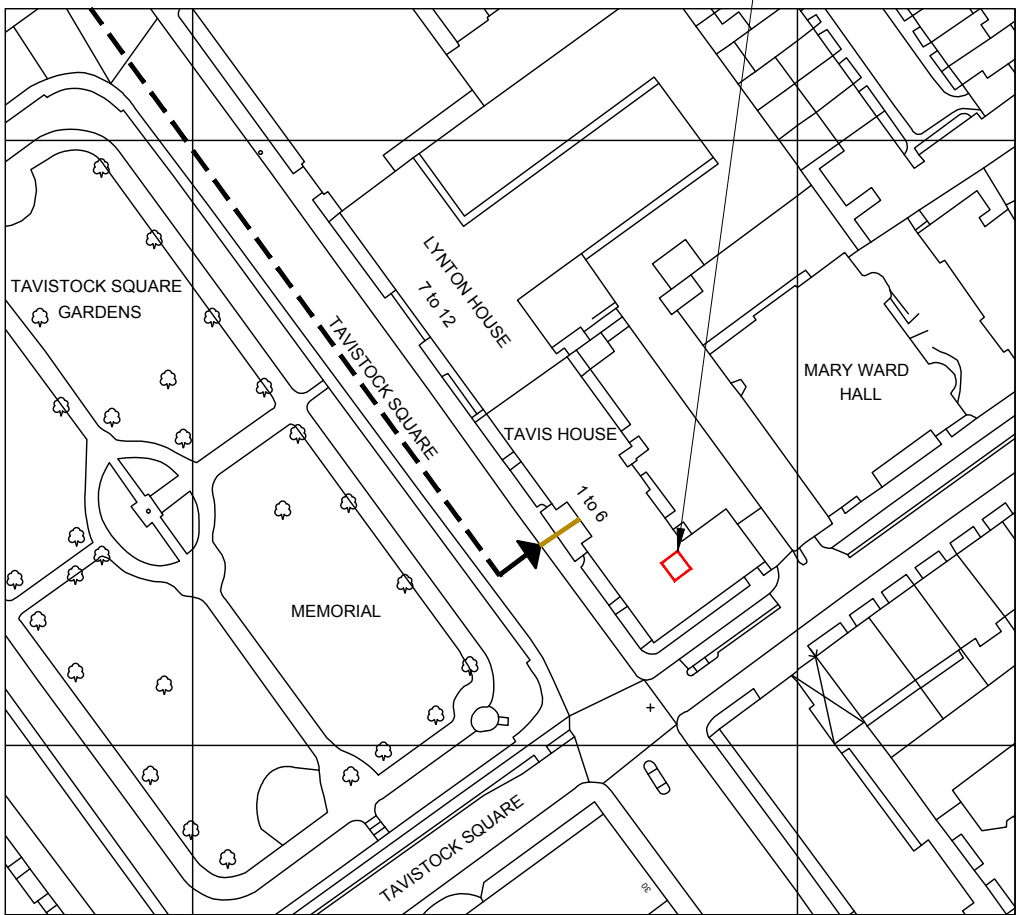
THESE DRAWINGS COMPLY WITH STANDARD ICNIRP DESIGN GUIDELINES.

GENERAL NOTES:

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- 1.3) ASSUME ALL SITE DETAILS ARE EXISTING UNLESS SPECIFIED



SITE LOCATION



SITE LOCATION (SCALE 1:1250)



SITE LOCATION



SITE LOCATION (SCALE 1:50000)

| DEPENDENCIES | |
|--------------------------|-----|
| CHERRY PICKER SURVEY | NO |
| STAT SEARCH | NO |
| TRIAL DIG | NO |
| GEOTECH | NO |
| DJC | NO |
| BOLT PULL-OUT TEST | NO |
| STRUCTURAL CALCULATIONS | YES |
| BUILDING REGULATIONS | YES |
| ELECTRICAL LOAD TEST | YES |
| REC SERVICE ALTERATION | NO |
| COMMS SERVICE ALTERATION | NO |
| ASBESTOS SURVEY | NO |
| ANTENNA TESTING | NO |
| COOLING CALCULATIONS | NO |

| REV | ISSUE | DATE | DRN | APP |
|-----|---|----------|-----|-----|
| E | NORTH WEST ELEVATION ADDED | 04.04.17 | GB | GD |
| D | EQUIPMENT SUPPORT DETAILS AMENDED | 04.01.17 | GB | GD |
| C | VF SCHEMATIC UPDATED | 16.12.16 | NP | GD |
| B | CABINETS POSITION REVISED. BEARINGS REVISED | 13.12.16 | NP | GD |
| A | FIRST ISSUE | 07.12.16 | KJS | DJ |

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NET COVERAGE SOLUTIONS
CRAVEN COURT
STANHOPE ROAD
CAMBERLEY
SURREY GU15 3BS

TEL: +44(0)1276 854440
FAX: +44(0)1276 854450



CTIL

OPERATOR REF NO. CTILid:234171 TEF:78556 VF:13828

OPERATOR: CTIL

DRAWING TITLE: SITE LOCATION MAPS

SCALE: AS SHOWN

SITE NO. 13828

SITE NAME: TAVIS HOUSE

SITE ADDRESS: 1-6 TAVISTOCK SQUARE
LONDON
WC1H 9NB

OS GRID REFERENCE:
529966/182336

DRAWN: KJS CHK: DJ APP: DJ

DATE: 07.12.16

| SITE NO. | OPERATOR | DRG NO. | REVISION |
|----------|----------|---------|----------|
| 13828 | - CTIL - | 100 | - E |

ORIGINAL DRAWING SIZE: A3



LOCATION PHOTOGRAPH

DIRECTIONS TO SITE:

HEADING EAST ON THE M40

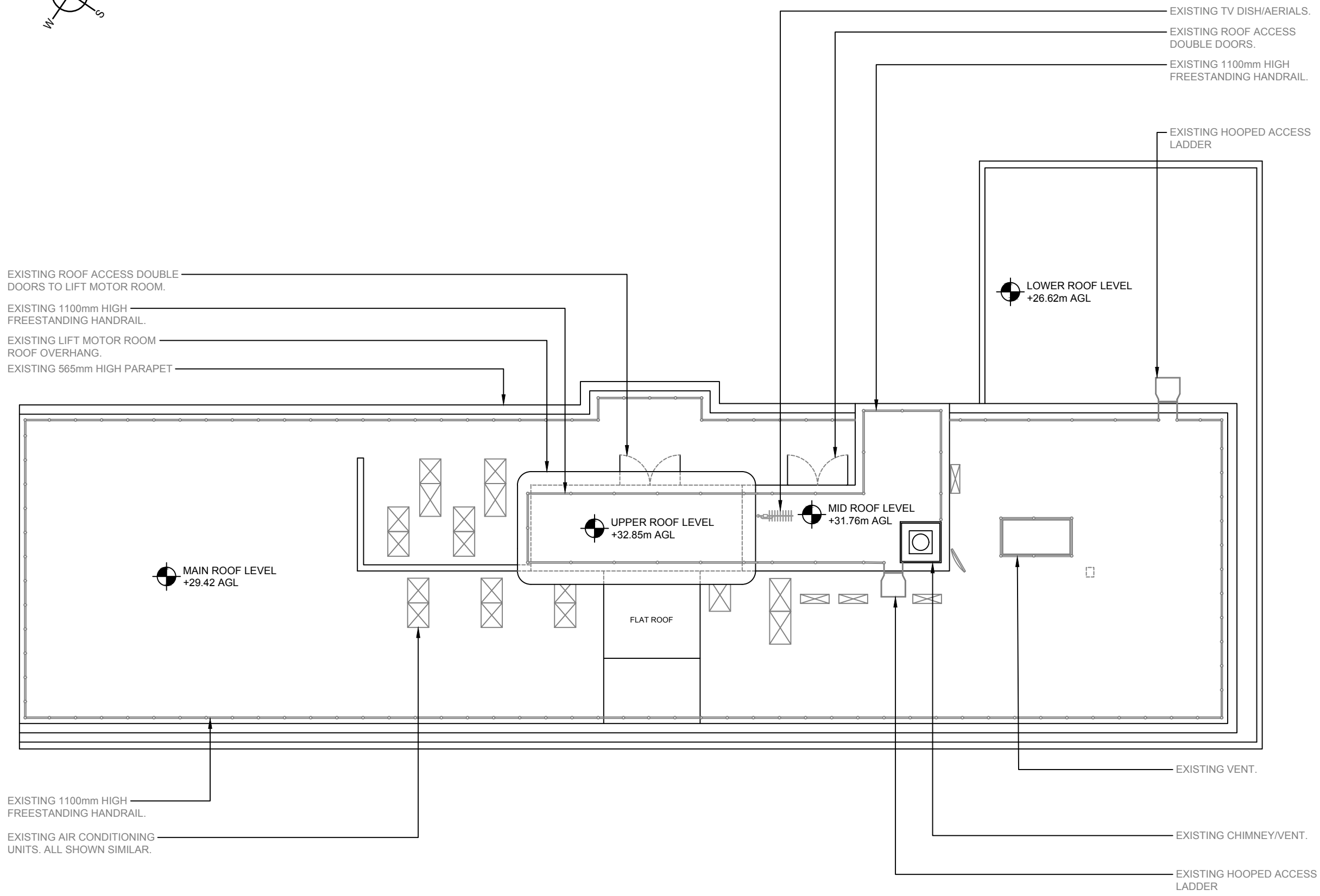
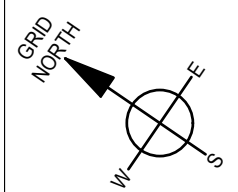
CONTINUE ONTO WESTERN AVE/A40, AND FOLLOW FOR APPROX. 15 MILES, THEN CONTINUE ONTO MARYLEBONE ROAD/A501. KEEP RIGHT TO CONTINUE ON EUSTON RD/A501. TURN RIGHT ONTO UPPER WOBURN PI A4200, AFTER 0.2 MILES SITE IS LOCATED ON YOUR LEFT.

ALL MAPS OBTAINED VIA PROMAP.
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THESE DRAWINGS COMPLY WITH STANDARD ICNIRP DESIGN GUIDELINES.

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EXISTING ROOF ACCESS DOUBLE DOORS TO LIFT MOTOR ROOM.
 EXISTING 1100mm HIGH FREESTANDING HANDRAIL.
 EXISTING LIFT MOTOR ROOM ROOF OVERHANG.
 EXISTING 565mm HIGH PARAPET

EXISTING TV DISH/AERIALS.
 EXISTING ROOF ACCESS DOUBLE DOORS.
 EXISTING 1100mm HIGH FREESTANDING HANDRAIL.
 EXISTING HOOPED ACCESS LADDER

EXISTING 1100mm HIGH FREESTANDING HANDRAIL.
 EXISTING AIR CONDITIONING UNITS. ALL SHOWN SIMILAR.

| REV | ISSUE | DATE | DRN | APP |
|-----|---|----------|-----|-----|
| E | NORTH WEST ELEVATION ADDED | 04.04.17 | GB | GD |
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NET COVERAGE SOLUTIONS
 CRAVEN COURT
 STANHOPE ROAD
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 SURREY GU15 3BS
 TEL: +44(0)1276 854440
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OPERATOR REF NO. CTILid:234171 TEF:78556 VF:13828

OPERATOR: CTIL

DRAWING TITLE: SITE LAYOUT PLAN EXISTING

SCALE: 1:150

SITE NO. 13828

SITE NAME: TRAVIS HOUSE

SITE ADDRESS: 1-6 TAVISTOCK SQUARE
 LONDON
 WC1H 9NB

OS GRID REFERENCE:
 529966/182336

DRAWN: KJS CHK: DJ APP: DJ

DATE: 07.12.16

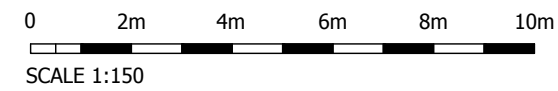
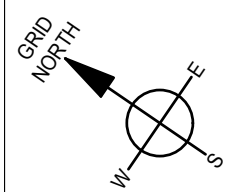
| SITE NO. | OPERATOR | DRG NO. | REVISION |
|----------|----------|---------|----------|
| 13828 | - CTIL - | 201 | - E |

ORIGINAL DRAWING SIZE: A3

EXISTING SITE LAYOUT PLAN (SCALE 1:150)

THESE DRAWINGS COMPLY WITH STANDARD ICNIRP DESIGN GUIDELINES.

GENERAL NOTES:



PROPOSED 1No. VF ANTENNAS AND 1No. TEF ANTENNA TO BE INSTALLED ON NEW TRIPOD FIXED TO ROOF. 3No. VF ERS AND 2No. VF RRU TO BE FIXED TO POLE BRACINGS/NEARBY HANDRAILING. EXISTING HANDRAILING IN CLOSE PROXIMITY TO NEW TRIPOD TO BE REMOVED/ADJUSTED/REPLACED TO SUIT NEW INSTALLATION

PROPOSED 450mm WIDE CABLE TRAY FOR NEW FEEDER CABLES

PROPOSED STEP OVER NEW CABLE TRAY

EXISTING ROOF ACCESS DOUBLE DOORS TO LIFT MOTOR ROOM.

EXISTING 1100mm HIGH FREESTANDING HANDRAIL.

EXISTING LIFT MOTOR ROOM ROOF OVERHANG.

EXISTING 565mm HIGH PARAPET

EXISTING ROOF ACCESS DOUBLE DOORS.

EXISTING 1100mm HIGH FREESTANDING HANDRAIL.

PROPOSED 1No. CSC ENCLOSURE c/w TRANSMISSION ON NEW MAFI 8051 SUPPORT FRAME.

PROPOSED ELTEK O/D PSU c/w PROPOSED TRANSMISSION ON NEW MAFI 8051 SUPPORT FRAME.

PROPOSED ROOFTOP DISTRIBUTION ENCLOSURE MOUNTED ON UNISTRUT FIXED TO NEW MAFI 8051 SUPPORT FRAME. POWER TO BE TAKEN FROM LANDLORDS DB WITHIN BUILDING.

PROPOSED 2No. NSN O/D FPF ON NEW MAFI 8051 SUPPORT FRAME.

EXISTING HOOPED ACCESS LADDER

LOWER ROOF LEVEL
+26.62m AGL

MAIN ROOF LEVEL
+29.42 AGL

UPPER ROOF LEVEL
+32.85m AGL

MID ROOF LEVEL
+31.76m AGL

EXISTING 1100mm HIGH FREESTANDING HANDRAIL.

EXISTING AIR CONDITIONING UNITS. ALL SHOWN SIMILAR.

PROPOSED 1No. VF ANTENNAS AND 1No. TEF ANTENNA TO BE INSTALLED ON NEW TRIPOD FIXED TO ROOF. 3No. VF ERS AND 2No. VF RRU TO BE FIXED TO POLE BRACINGS/NEARBY HANDRAILING. EXISTING HANDRAILING IN CLOSE PROXIMITY TO NEW TRIPOD TO BE REMOVED/ADJUSTED/REPLACED TO SUIT NEW INSTALLATION

EXISTING VENT.

EXISTING CHIMNEY/VENT.

EXISTING HOOPED ACCESS LADDER

EXISTING TV DISH/AERIALS.

PROPOSED ACCESS LADDER C/W FREESTANDING HANDRAILING.

PROPOSED 1No. VF ANTENNAS AND 1No. TEF ANTENNA TO BE INSTALLED ON NEW TRIPOD FIXED TO ROOF. 3No. VF ERS AND 2No. VF RRU TO BE FIXED TO POLE BRACINGS/NEARBY HANDRAILING. EXISTING HANDRAILING IN CLOSE PROXIMITY TO NEW TRIPOD TO BE REMOVED/ADJUSTED OR REPLACED TO SUIT NEW INSTALLATION

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| REV | ISSUE | DATE | DRN | APP |
|-----|---|----------|-----|-----|
| E | NORTH WEST ELEVATION ADDED | 04.04.17 | GB | GD |
| D | EQUIPMENT SUPPORT DETAILS AMENDED | 04.01.17 | GB | GD |
| C | VF SCHEMATIC UPDATED | 16.12.16 | NP | GD |
| B | CABINETS POSITION REVISED. BEARINGS REVISED | 13.12.16 | NP | GD |
| A | FIRST ISSUE | 07.12.16 | KJS | DJ |

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NET COVERAGE SOLUTIONS
CRAVEN COURT
STANHOPE ROAD
CAMBERLEY
SURREY GU15 3BS
TEL: +44(0)1276 854440
FAX: +44(0)1276 854450



OPERATOR REF NO. CTILid:234171 TEF:78556 VF:13828

OPERATOR: CTIL

DRAWING TITLE: SITE LAYOUT PLAN PROPOSED

SCALE: 1:150

SITE NO. 13828

SITE NAME: TAVIS HOUSE

SITE ADDRESS: 1-6 TAVISTOCK SQUARE
LONDON
WC1H 9NB

OS GRID REFERENCE:
529966/182336

DRAWN: KJS CHK: DJ APP: DJ

DATE: 07.12.16

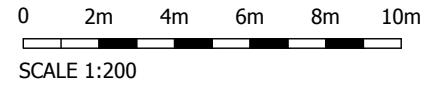
| SITE NO. | OPERATOR | DRG NO. | REVISION |
|----------|----------|---------|----------|
| 13828 | - CTIL - | 202 | - E |

ORIGINAL DRAWING SIZE: A3

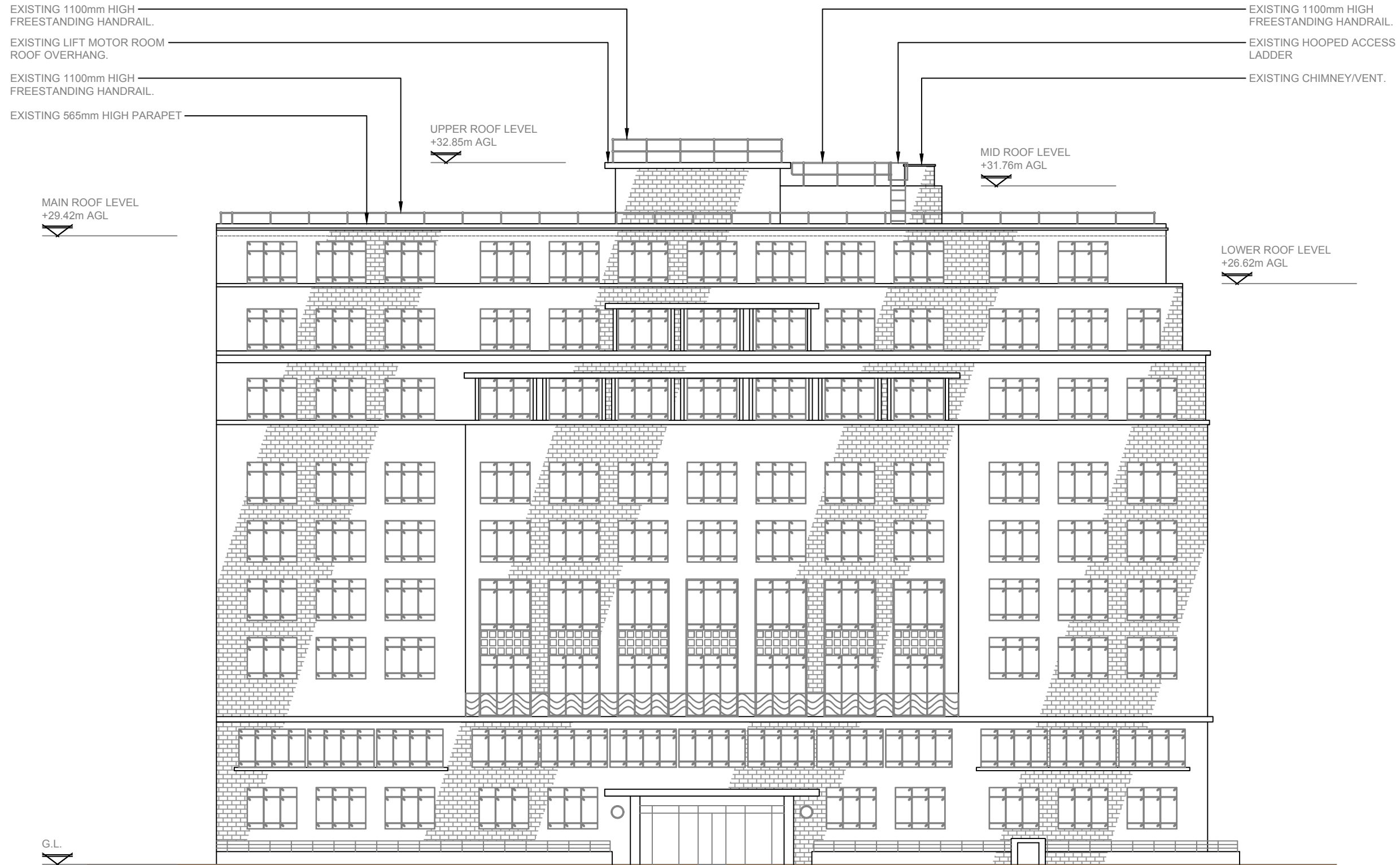
PROPOSED SITE LAYOUT PLAN (SCALE 1:150)

THESE DRAWINGS COMPLY WITH STANDARD ICNIRP DESIGN GUIDELINES.

GENERAL NOTES:



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EXISTING SOUTH WEST ELEVATION (SCALE 1:200)

| REV | ISSUE | DATE | DRN | APP |
|-----|---|----------|-----|-----|
| E | NORTH WEST ELEVATION ADDED | 04.04.17 | GB | GD |
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CTIL

OPERATOR REF NO. CTILid:234171 TEF:78556 VF:13828

OPERATOR: CTIL

DRAWING TITLE: SOUTH WEST ELEVATION EXISTING

SCALE: 1:200

SITE NO. 13828

SITE NAME: TAVIS HOUSE

SITE ADDRESS: 1-6 TAVISTOCK SQUARE
 LONDON
 WC1H 9NB

OS GRID REFERENCE:
 529966/182336

DRAWN: KJS CHK: DJ APP: DJ

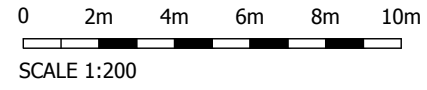
DATE: 07.12.16

| SITE NO. | OPERATOR | DRG NO. | REVISION |
|----------|----------|---------|----------|
| 13828 | CTIL | 301 | E |

ORIGINAL DRAWING SIZE: A3

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EXISTING 1100mm HIGH FREESTANDING HANDRAIL.

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EXISTING LIFT MOTOR ROOM ROOF OVERHANG.

EXISTING 1100mm HIGH FREESTANDING HANDRAIL.

MAIN ROOF LEVEL
+29.42m AGL

UPPER ROOF LEVEL
+32.85m AGL

MID ROOF LEVEL
+31.76m AGL

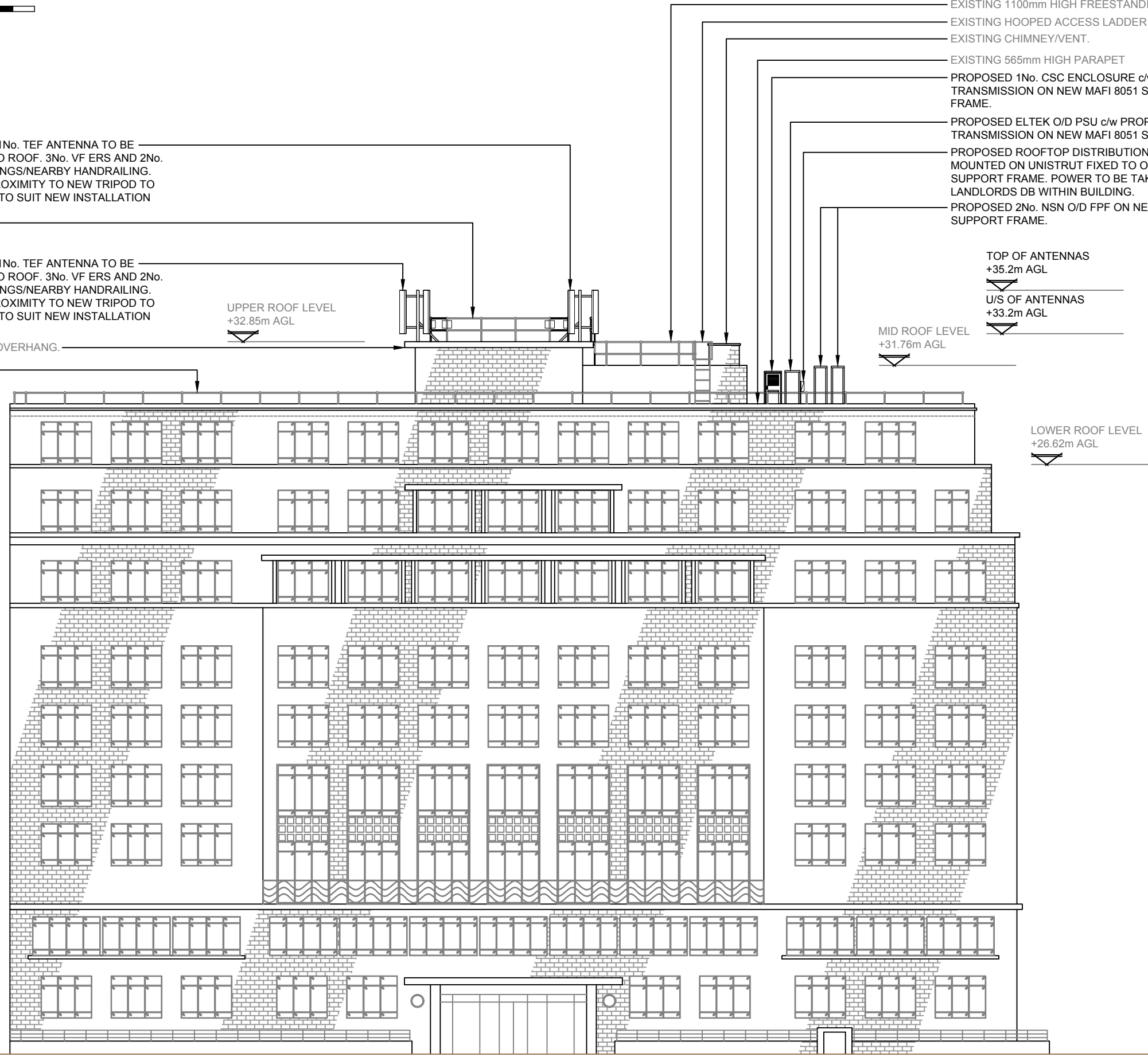
LOWER ROOF LEVEL
+26.62m AGL

G.L.

- EXISTING 1100mm HIGH FREESTANDING HANDRAIL.
- EXISTING HOOPED ACCESS LADDER
- EXISTING CHIMNEY/VENT.
- EXISTING 565mm HIGH PARAPET
- PROPOSED 1No. CSC ENCLOSURE c/w TRANSMISSION ON NEW MAFI 8051 SUPPORT FRAME.
- PROPOSED ELTEK O/D PSU c/w PROPOSED TRANSMISSION ON NEW MAFI 8051 SUPPORT FRAME.
- PROPOSED ROOFTOP DISTRIBUTION ENCLOSURE MOUNTED ON UNISTRUT FIXED TO ON NEW MAFI 8051 SUPPORT FRAME. POWER TO BE TAKEN FROM LANDLORDS DB WITHIN BUILDING.
- PROPOSED 2No. NSN O/D FPF ON NEW MAFI 8051 SUPPORT FRAME.

TOP OF ANTENNAS
+35.2m AGL

U/S OF ANTENNAS
+33.2m AGL



| REV | ISSUE | DATE | DRN | APP |
|-----|---|----------|-----|-----|
| E | NORTH WEST ELEVATION ADDED | 04.04.17 | GB | GD |
| D | EQUIPMENT SUPPORT DETAILS AMENDED | 04.01.17 | GB | GD |
| C | VF SCHEMATIC UPDATED | 16.12.16 | NP | GD |
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| A | FIRST ISSUE | 07.12.16 | KJS | DJ |

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NET COVERAGE SOLUTIONS
CRAVEN COURT
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CAMBERLEY
SURREY GU15 3BS
TEL: +44(0)1276 854440
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OPERATOR REF NO. CTILid:234171 TEF:78556 VF:13828

OPERATOR: CTIL

DRAWING TITLE: SOUTH WEST ELEVATION PROPOSED

SCALE: 1:200

SITE NO. 13828

SITE NAME: TAVIS HOUSE

SITE ADDRESS: 1-6 TAVISTOCK SQUARE
LONDON
WC1H 9NB

OS GRID REFERENCE:
529966/182336

DRAWN: KJS CHK: DJ APP: DJ

DATE: 07.12.16

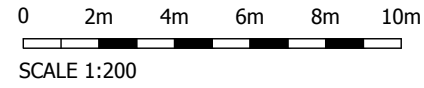
| SITE NO. | OPERATOR | DRG NO. | REVISION |
|----------|----------|---------|----------|
| 13828 | - CTIL - | 302 | - E |

ORIGINAL DRAWING SIZE: A3

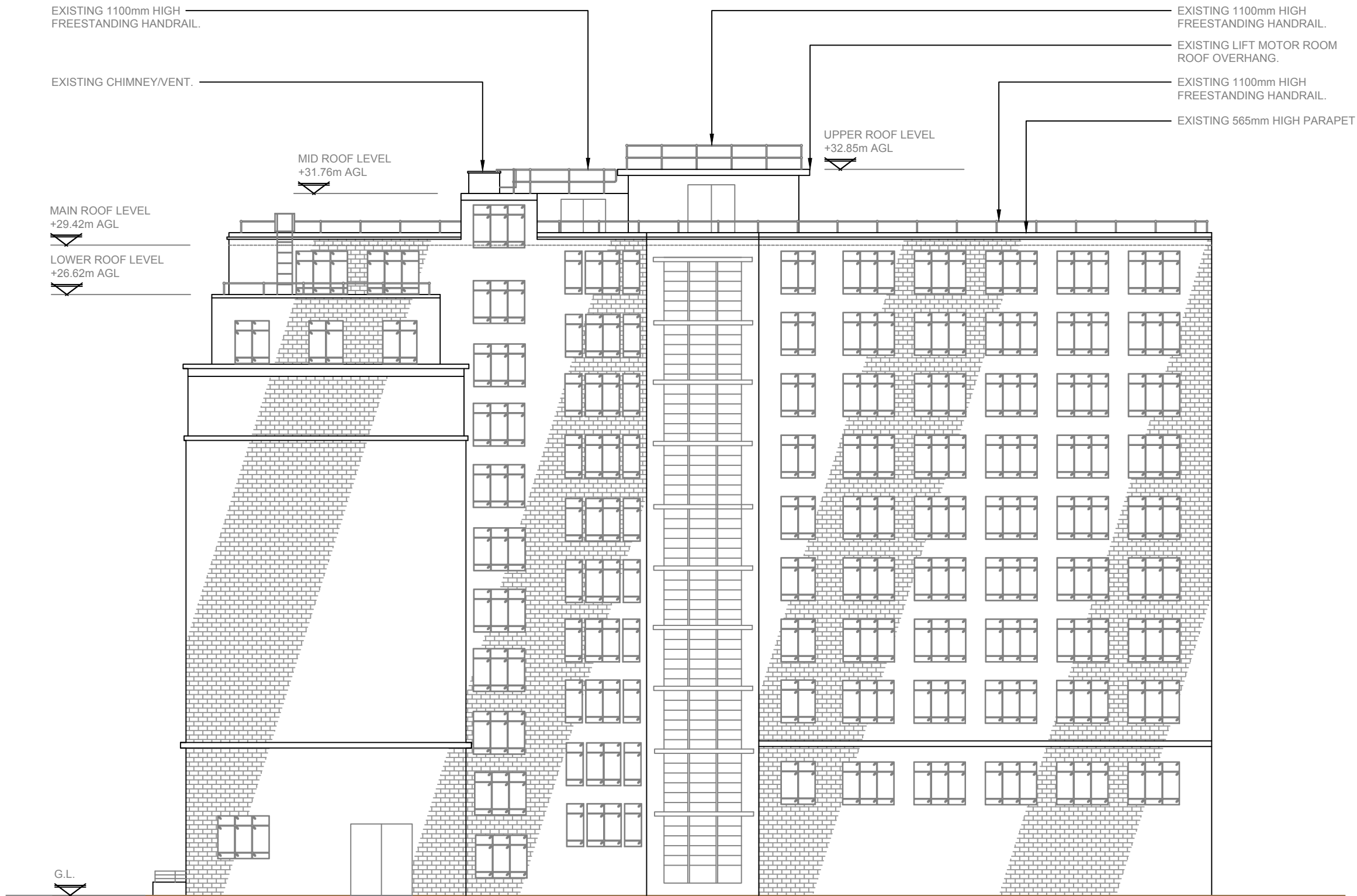
PROPOSED SOUTH WEST ELEVATION (SCALE 1:200)

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EXISTING NORTH EAST ELEVATION (SCALE 1:200)

| E | NORTH WEST ELEVATION ADDED | 04.04.17 | GB | GD |
|-----|----------------------------|----------|-----|-----|
| D | NOT ISSUED | | | |
| C | NOT ISSUED | | | |
| B | NOT ISSUED | | | |
| A | NOT ISSUED | | | |
| REV | ISSUE | DATE | DRN | APP |

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CTIL

OPERATOR REF NO. CTILid:234171 TEF:78556 VF:13828

OPERATOR: CTIL

DRAWING TITLE: NORTH EAST ELEVATION EXISTING

SCALE: 1:200

SITE NO. 13828

SITE NAME: TAVIS HOUSE

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 WC1H 9NB

OS GRID REFERENCE:
 529966/182336

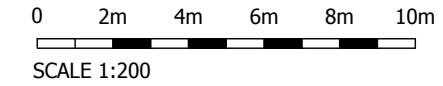
DRAWN: KJS CHK: DJ APP: DJ

DATE: 07.12.16

| SITE NO. | OPERATOR | DRG NO. | REVISION |
|----------|----------|---------|----------|
| 13828 | - CTIL - | 301 | - E |

ORIGINAL DRAWING SIZE: A3

THESE DRAWINGS COMPLY WITH STANDARD ICNIRP DESIGN GUIDELINES.



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EXISTING 1100mm HIGH FREESTANDING HANDRAIL.

EXISTING CHIMNEY/VENT.

EXISTING 565mm HIGH PARAPET
 PROPOSED 1No. CSC ENCLOSURE c/w TRANSMISSION ON NEW MAFI 8051 SUPPORT FRAME.

PROPOSED ELTEK O/D PSU c/w PROPOSED TRANSMISSION ON NEW MAFI 8051 SUPPORT FRAME.

PROPOSED ROOFTOP DISTRIBUTION ENCLOSURE MOUNTED ON UNISTRUT FIXED TO ON NEW MAFI 8051 SUPPORT FRAME. POWER TO BE TAKEN FROM LANDLORDS DB WITHIN BUILDING.

PROPOSED 2No. NSN O/D PFP ON NEW MAFI 8051 SUPPORT FRAME.

TOP OF ANTENNAS
 +35.2m AGL

U/S OF ANTENNAS
 +33.2m AGL

MID ROOF LEVEL
 +31.76m AGL

LOWER ROOF LEVEL
 +26.62m AGL

UPPER ROOF LEVEL
 +32.85m AGL

PROPOSED 1No. VF ANTENNAS AND 1No. TEF ANTENNA TO BE INSTALLED ON NEW TRIPOD FIXED TO ROOF. 3No. VF ERS AND 2No. VF RRU TO BE FIXED TO POLE BRACINGS/NEARBY HANDRAILING. EXISTING HANDRAILING IN CLOSE PROXIMITY TO NEW TRIPOD TO BE REMOVED/ADJUSTED/REPLACED TO SUIT NEW INSTALLATION

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EXISTING LIFT MOTOR ROOM ROOF OVERHANG.

EXISTING 1100mm HIGH FREESTANDING HANDRAIL.

MAIN ROOF LEVEL
 +29.42m AGL

G.L.

PROPOSED NORTH EAST ELEVATION (SCALE 1:200)

| E | NORTH WEST ELEVATION ADDED | 04.04.17 | GB | GD |
|-----|----------------------------|----------|-----|-----|
| D | NOT ISSUED | | | |
| C | NOT ISSUED | | | |
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| A | NOT ISSUED | | | |
| REV | ISSUE | DATE | DRN | APP |

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CTIL

OPERATOR REF NO. CTILid:234171 TEF:78556 VF:13828

OPERATOR: CTIL

DRAWING TITLE: ELEVATION PROPOSED

SCALE: 1:200

SITE NO. 13828

SITE NAME: TAVIS HOUSE

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 LONDON
 WC1H 9NB

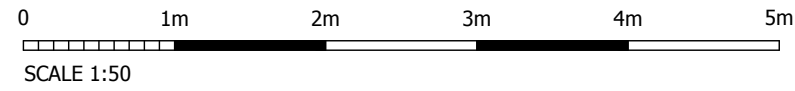
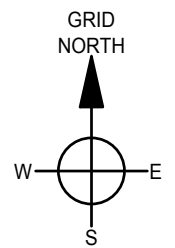
OS GRID REFERENCE:
 529966/182336

DRAWN: KJS CHK: DJ APP: DJ

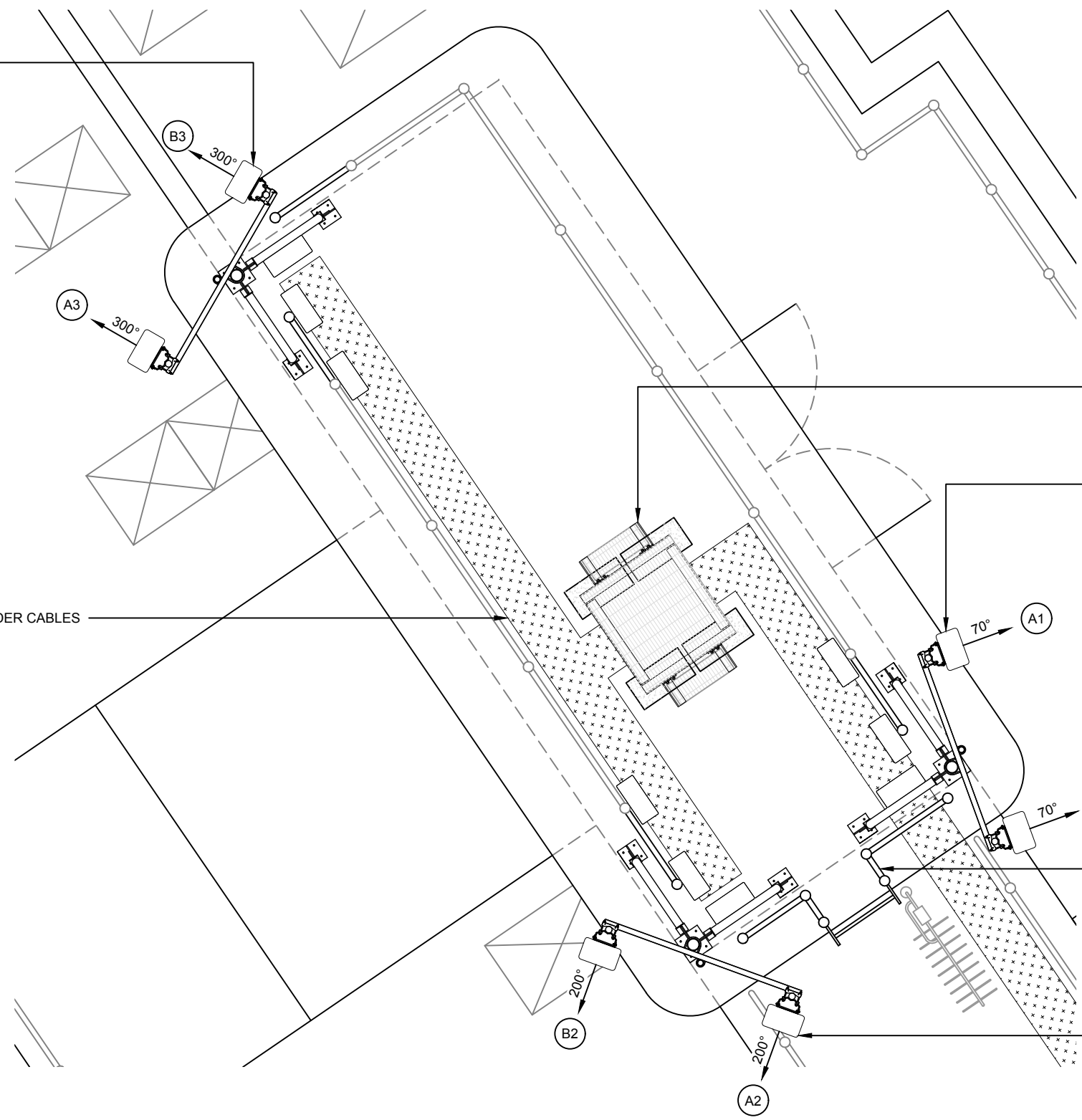
DATE: 07.12.16

| SITE NO. | OPERATOR | DRG NO. | REVISION |
|----------|----------|---------|----------|
| 13828 | CTIL | 302 | E |

ORIGINAL DRAWING SIZE: A3



PROPOSED 1No. VF ANTENNAS AND 1No. TEF ANTENNA TO BE INSTALLED ON NEW TRIPOD FIXED TO ROOF. 3No. VF ERS AND 2No. VF RRU TO BE FIXED TO POLE BRACINGS/NEARBY HANDRAILING. EXISTING HANDRAILING IN CLOSE PROXIMITY TO NEW TRIPOD TO BE REMOVED/ADJUSTED/REPLACED TO SUIT NEW INSTALLATION



PROPOSED 450mm WIDE CABLE TRAY FOR NEW FEEDER CABLES

PROPOSED STEP OVER NEW CABLE TRAY

PROPOSED 1No. VF ANTENNAS AND 1No. TEF ANTENNA TO BE INSTALLED ON NEW TRIPOD FIXED TO ROOF. 3No. VF ERS AND 2No. VF RRU TO BE FIXED TO POLE BRACINGS/NEARBY HANDRAILING. EXISTING HANDRAILING IN CLOSE PROXIMITY TO NEW TRIPOD TO BE REMOVED/ADJUSTED/REPLACED TO SUIT NEW INSTALLATION

PROPOSED ACCESS LADDER C/W FREESTANDING HANDRAILING.

PROPOSED 1No. VF ANTENNAS AND 1No. TEF ANTENNA TO BE INSTALLED ON NEW TRIPOD FIXED TO ROOF. 3No. VF ERS AND 2No. VF RRU TO BE FIXED TO POLE BRACINGS/NEARBY HANDRAILING. EXISTING HANDRAILING IN CLOSE PROXIMITY TO NEW TRIPOD TO BE REMOVED/ADJUSTED/REPLACED TO SUIT NEW INSTALLATION

PROPOSED ENLARGED LAYOUT PLAN (SCALE 1:50)

GENERAL NOTES:
 1.1) USE WRITTEN DIMENSIONS ONLY
 1.2) ALL DIMENSIONS ARE IN MM UNLESS SPECIFIED
 1.3) ASSUME ALL SITE DETAILS ARE EXISTING UNLESS SPECIFIED

| | | | | |
|-----|---|----------|-----|-----|
| REV | ISSUE | DATE | DRN | APP |
| E | NORTH WEST ELEVATION ADDED | 04.04.17 | GB | GD |
| D | EQUIPMENT SUPPORT DETAILS AMENDED | 04.01.17 | GB | GD |
| C | VF SCHEMATIC UPDATED | 16.12.16 | NP | GD |
| B | CABINETS POSITION REVISED. BEARINGS REVISED | 13.12.16 | NP | GD |
| A | FIRST ISSUE | 07.12.16 | KJS | DJ |

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net
 NET COVERAGE SOLUTIONS
 CRAVEN COURT
 STANHOPE ROAD
 CAMBERLEY
 SURREY GU15 3BS
 TEL: +44(0)1276 854440
 FAX: +44(0)1276 854450



OPERATOR REF NO. CTILid:234171 TEF:78556 VF:13828

OPERATOR: CTIL

DRAWING TITLE: ENLARGED LAYOUT PLAN PROPOSED

SCALE: 1:50

SITE NO. 13828

SITE NAME: TAVIS HOUSE

SITE ADDRESS: 1-6 TAVISTOCK SQUARE
 LONDON
 WC1H 9NB

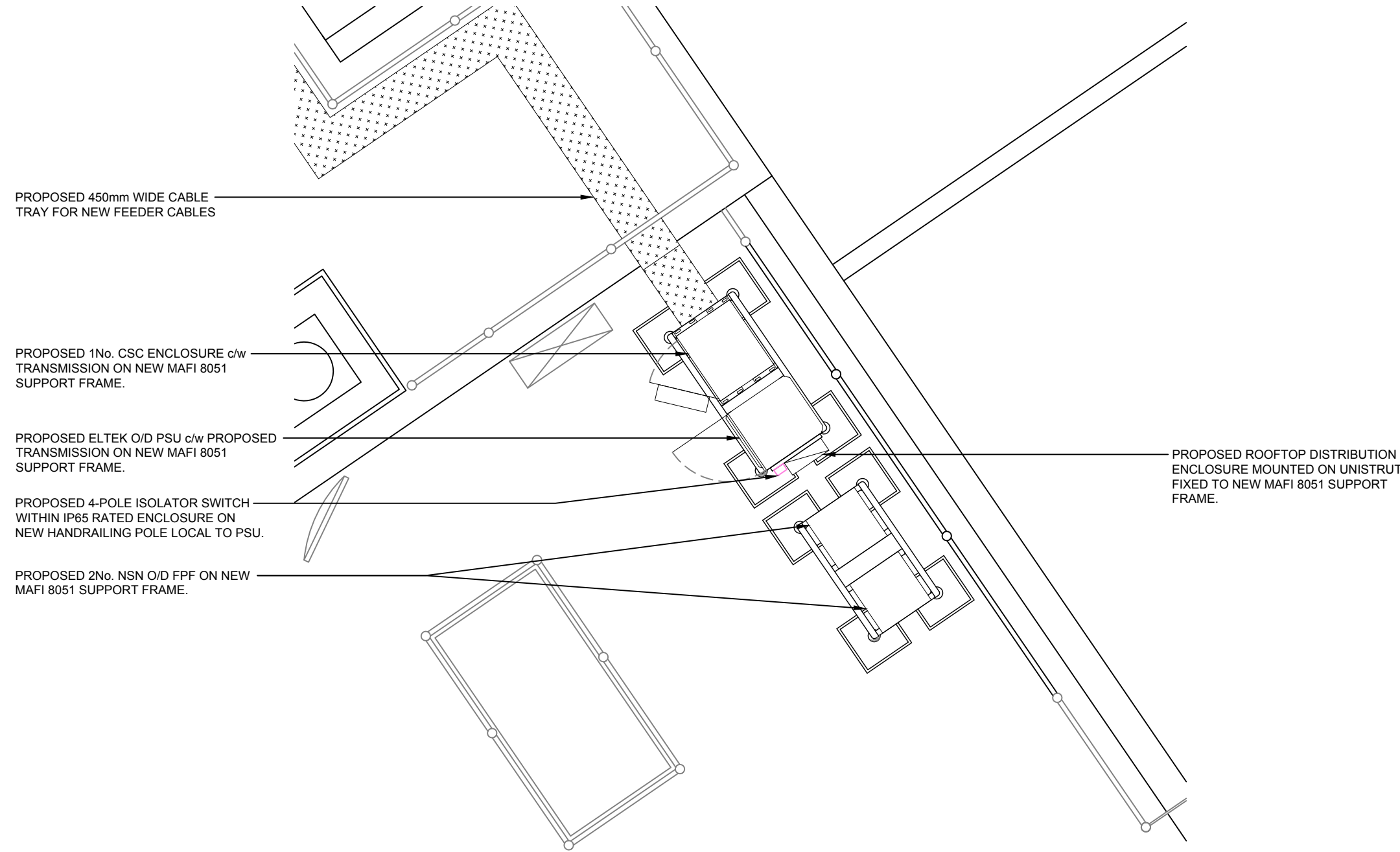
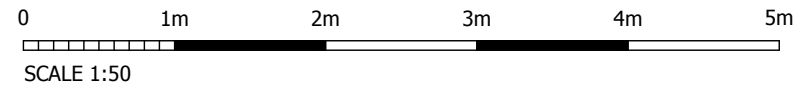
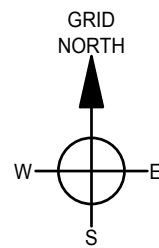
OS GRID REFERENCE:
 529966/182336

DRAWN: KJS CHK: DJ APP: DJ

DATE: 07.12.16

| | | | |
|----------|----------|---------|----------|
| SITE NO. | OPERATOR | DRG NO. | REVISION |
| 13828 | - CTIL - | 401 | - E |

ORIGINAL DRAWING SIZE: A3



PROPOSED 450mm WIDE CABLE TRAY FOR NEW FEEDER CABLES

PROPOSED 1No. CSC ENCLOSURE c/w TRANSMISSION ON NEW MAFI 8051 SUPPORT FRAME.

PROPOSED ELTEK O/D PSU c/w PROPOSED TRANSMISSION ON NEW MAFI 8051 SUPPORT FRAME.

PROPOSED 4-POLE ISOLATOR SWITCH WITHIN IP65 RATED ENCLOSURE ON NEW HANDRAILING POLE LOCAL TO PSU.

PROPOSED 2No. NSN O/D PPF ON NEW MAFI 8051 SUPPORT FRAME.

PROPOSED ROOFTOP DISTRIBUTION ENCLOSURE MOUNTED ON UNISTRUT FIXED TO NEW MAFI 8051 SUPPORT FRAME.

PROPOSED ENLARGED EQUIPMENT PLAN (SCALE 1:50)

GENERAL NOTES:
 1.1) USE WRITTEN DIMENSIONS ONLY
 1.2) ALL DIMENSIONS ARE IN MM UNLESS SPECIFIED
 1.3) ASSUME ALL SITE DETAILS ARE EXISTING UNLESS SPECIFIED

| | | | | |
|-----|---|----------|-----|-----|
| E | NORTH WEST ELEVATION ADDED | 04.04.17 | GB | GD |
| D | EQUIPMENT SUPPORT DETAILS AMENDED | 04.01.17 | GB | GD |
| C | VF SCHEMATIC UPDATED | 16.12.16 | NP | GD |
| B | CABINETS POSITION REVISED. BEARINGS REVISED | 13.12.16 | NP | GD |
| A | FIRST ISSUE | 07.12.16 | KJS | DJ |
| REV | ISSUE | DATE | DRN | APP |

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NET COVERAGE SOLUTIONS
 CRAVEN COURT
 STANHOPE ROAD
 CAMBERLEY
 SURREY GU15 3BS
 TEL: +44(0)1276 854440
 FAX: +44(0)1276 854450



CTIL

OPERATOR REF NO. CTILid:234171 TEF:78556 VF:13828

OPERATOR: CTIL

DRAWING TITLE: ENLARGED EQUIPMENT PLAN PROPOSED

SCALE: 1:50

SITE NO. 13828

SITE NAME: TAVIS HOUSE

SITE ADDRESS: 1-6 TAVISTOCK SQUARE
 LONDON
 WC1H 9NB

OS GRID REFERENCE:
 529966/182336

DRAWN: KJS CHK: DJ APP: DJ

DATE: 07.12.16

| | | | |
|----------|----------|---------|----------|
| SITE NO. | OPERATOR | DRG NO. | REVISION |
| 13828 | - CTIL - | 402 | - E |

ORIGINAL DRAWING SIZE: A3

LONDON DESIGN ERS CONFIGURATIONS - ISSUE 3.3
CONFIGURATION: MX5 - OPTION 5 (1No. ANTENNAS PER SECTOR)

VOD CODE:
VOD_E_XRS_350_2610

UKRE_16_019 LONDON RF SYSTEM GENERAL DESIGN FOR 6 SECTOR DEPLOYMENT (ISSUE 1.3)
LONDON 6 SECTOR WORKING - WITH ALL TECHNOLOGIES AT 3 SECTOR WORKING WHERE 6S UPGRADE IS EXPECTED

TEF CODE:
LGD-S-M-E1c-F

EXISTING & PROPOSED ANTENNA SCHEDULE (EXISTING EQUIPMENT SHOWN GREY)

| PROPOSED & EXISTING ANTENNAS | OPERATOR | FUNCTION | FEEDER/DC/FIBRE | | | | | | | | MHA's/RRU's/BIAS T's/JUMPERS/COMBINERS | | | | | | | | | | ANTENNAS | | | | | | | |
|------------------------------------|----------|----------|--|--------------------|--------------------|-------|-------------------------|-------------|------|--------------|--|-------------|----------------|-------------|------------|--|--|------------------------|---|-----------|---|------|-------------------|-------------------|-------------------|---|--------|----------|
| | | | LENGTH & DIAMETER (SEE GUIDANCE NOTES BELOW) | | | | TYPE (COAX OR DC/FIBRE) | FEEDERS QTY | | DC/FIBRE QTY | DC/FIBRE LENGTH | MHA NSN QTY | MHA E'SSON QTY | RRU/ERS QTY | BIAS T QTY | RRU/ERS TO ANTENNA JUMPER LENGTH (TO BE WITHIN MAX LENGTH ALLOWED AS PER CTIL DESIGN SPEC) | MHA TO ANTENNA JUMPER LENGTH (RTOPS & GFIELDS) | COMBINERS (HIGH LEVEL) | COMBINERS (LOW LEVEL IN CABINET, CABIN ETC) | ANT. REF. | ANTENNA MANUFACTURERS PART No. | BRG° | HEIGHT TO TOP (m) | HEIGHT TO U/S (m) | HEIGHT TO C/L (m) | LOCATION (POLE MOUNTED, HEADFRAME, WITHIN SHROUD ETC) | STATUS | COMMENTS |
| | | | MF1 | MF(J1) | MF(J2) | TOTAL | | EXTNG | PROP | | | | | | | | | | | | | | | | | | | |
| SECTOR 1 2No. PROPOSED ANTENNAS | VF/TEF | 1L08 | - | - | - | - | DC/FIBRE | - | - | 1 | 20m | - | - | 2 | - | 2x2.0m | - | 08/09 | - | A1a | COMMSCOPE RVVPX308.14R3 (VPN: 503163) | 70° | 35.2m | 33.2m | 34.2m | SUPPORT POLE | NEW | - |
| | VF | 1U/G09 | - | - | - | - | DC/FIBRE | - | - | 1 | 20m | - | - | 3 | - | 2x2.0m | - | 21/26 | - | A1b | | - | | | | | | |
| | VF | 1L26 | - | - | - | - | DC/FIBRE | - | - | 1 | 20m | - | - | - | - | - | - | - | - | A1c | | - | | | | | | |
| | VF | 1U/L21 | - | - | - | - | DC/FIBRE | - | - | 1 | 20m | - | - | - | - | - | - | - | - | A1d | | - | | | | | | |
| SECTOR 1 1No. PROPOSED ANTENNA | TEF | 1GU09 | $\frac{7}{8}$ "=18m | $\frac{1}{2}$ "=1m | $\frac{1}{2}$ "=1m | 20m | COAX | - | 2 | - | - | - | - | - | - | - | - | - | - | B1a | COMMSCOPE CVV2NPX308.208R Q-CODE: H65DUU33WW20C10 | 70° | 35.2m | 33.2m | 34.2m | SUPPORT POLE | NEW | - |
| | SPARE | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | B1b | SPARE | | | | | |
| | TEF | 1U21 | $\frac{7}{8}$ "=18m | $\frac{1}{2}$ "=1m | $\frac{1}{2}$ "=1m | 20m | COAX | - | 2 | - | - | 1 | - | - | - | - | - | - | - | B1c | | - | | | | | | |
| | SPARE | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | B1d | SPARE | | | | | |
| SECTOR 2 2No. PROPOSED ANTENNAS | VF/TEF | 2L08 | - | - | - | - | DC/FIBRE | - | - | 1 | 28m | - | - | 2 | - | 2x2.0m | - | 08/09 | - | A2a | COMMSCOPE RVVPX308.14R3 (VPN: 503163) | 200° | 35.2m | 33.2m | 34.2m | SUPPORT POLE | NEW | - |
| | VF | 2U/G09 | - | - | - | - | DC/FIBRE | - | - | 1 | 28m | - | - | 3 | - | 2x2.0m | - | 21/26 | - | A2b | | - | | | | | | |
| | VF | 2L26 | - | - | - | - | DC/FIBRE | - | - | 1 | 28m | - | - | - | - | - | - | - | - | A2c | | - | | | | | | |
| | VF | 2U/L21 | - | - | - | - | DC/FIBRE | - | - | 1 | 28m | - | - | - | - | - | - | - | - | A2d | | - | | | | | | |
| SECTOR 2 1No. PROPOSED ANTENNA | TEF | 2GU09 | $\frac{7}{8}$ "=26m | $\frac{1}{2}$ "=1m | $\frac{1}{2}$ "=1m | 28m | COAX | - | 2 | - | - | - | - | - | - | - | - | - | - | B2a | COMMSCOPE CVV2NPX308.208R Q-CODE: H65DUU33WW20C10 | 200° | 35.2m | 33.2m | 34.2m | SUPPORT POLE | NEW | - |
| | SPARE | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | B2b | SPARE | | | | | |
| | TEF | 2U21 | $\frac{7}{8}$ "=26m | $\frac{1}{2}$ "=1m | $\frac{1}{2}$ "=1m | 28m | COAX | - | 2 | - | - | 1 | - | - | - | - | - | - | - | B2c | | - | | | | | | |
| | SPARE | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | B2d | SPARE | | | | | |
| SECTOR 3 2No. PROPOSED ANTENNAS | VF/TEF | 2L08 | - | - | - | - | DC/FIBRE | - | - | 1 | 31m | - | - | 2 | - | 2x2.0m | - | 08/09 | - | A3a | COMMSCOPE RVVPX308.14R3 (VPN: 503163) | 300° | 35.2m | 33.2m | 34.2m | SUPPORT POLE | NEW | - |
| | VF | 2U/G09 | - | - | - | - | DC/FIBRE | - | - | 1 | 31m | - | - | 3 | - | 2x2.0m | - | 21/26 | - | A3b | | - | | | | | | |
| | VF | 2L26 | - | - | - | - | DC/FIBRE | - | - | 1 | 31m | - | - | - | - | - | - | - | - | A3c | | - | | | | | | |
| | VF | 2U/L21 | - | - | - | - | DC/FIBRE | - | - | 1 | 31m | - | - | - | - | - | - | - | - | A3d | | - | | | | | | |
| SECTOR 3 1No. PROPOSED ANTENNA | TEF | 3GU09 | $\frac{7}{8}$ "=29m | $\frac{1}{2}$ "=1m | $\frac{1}{2}$ "=1m | 31m | COAX | - | 2 | - | - | - | - | - | - | - | - | - | - | B3a | COMMSCOPE CVV2NPX308.208R Q-CODE: H65DUU33WW20C10 | 300° | 35.2m | 33.2m | 34.2m | SUPPORT POLE | NEW | - |
| | SPARE | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | B3b | SPARE | | | | | |
| | TEF | 3U21 | $\frac{7}{8}$ "=29m | $\frac{1}{2}$ "=1m | $\frac{1}{2}$ "=1m | 31m | COAX | - | 2 | - | - | 1 | - | - | - | - | - | - | - | B3c | | - | | | | | | |
| | SPARE | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | B3d | SPARE | | | | | |
| SECTOR 3 1No. PROPOSED ANTENNA | SPARE | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | B3e | 30° | - | - | - | - | - | SPARE |

GENERAL NOTES:
1.1) USE WRITTEN DIMENSIONS ONLY
1.2) ALL DIMENSIONS ARE IN MM UNLESS SPECIFIED
1.3) ASSUME ALL SITE DETAILS ARE EXISTING UNLESS SPECIFIED
CONCESSION REQUIRED:
CRANE LIFT REQUIRED.

| | | | | |
|-----|---|----------|-----|-----|
| E | NORTH WEST ELEVATION ADDED | 04.04.17 | GB | GD |
| D | EQUIPMENT SUPPORT DETAILS AMENDED | 04.01.17 | GB | GD |
| C | VF SCHEMATIC UPDATED | 16.12.16 | NP | GD |
| B | CABINETS POSITION REVISED. BEARINGS REVISED | 13.12.16 | NP | GD |
| A | FIRST ISSUE | 07.12.16 | KJS | DJ |
| REV | ISSUE | DATE | DRN | APP |

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NET COVERAGE SOLUTIONS
CRAVEN COURT
STANHOPE ROAD
CAMBERLEY
SURREY GU15 3BS
TEL: +44(0)1276 854440
FAX: +44(0)1276 854450



OPERATOR REF NO. CTILid:234171 TEF:78556 VF:13828

OPERATOR: CTIL

DRAWING TITLE: ANTENNA AND EQUIPMENT SCHEDULE PROPOSED

SCALE: N/A

SITE NO. 13828

SITE NAME: TAVIS HOUSE

SITE ADDRESS: 1-6 TAVISTOCK SQUARE
LONDON
WC1H 9NB

OS GRID REFERENCE:
529966/182336

DRAWN: KJS CHK: DJ APP: DJ

DATE: 07.12.16

| | | | |
|----------|----------|---------|----------|
| SITE NO. | OPERATOR | DRG NO. | REVISION |
| 13828 | CTIL | 501 | E |

ORIGINAL DRAWING SIZE: A3

ANTENNA REFERENCE KEY

FUNCTION KEY

STATUS KEY

OPERATOR KEY

FEEDER LENGTH & DIAMETER GUIDANCE NOTES

A= ANTENNA GROUP (A-Z)
1= CELL No. (1, 2, 3)
b= UNIQUE BAND REFERENCE

1= SECTOR (2,3 etc)
U= UMTS (G=GSM) (L=LTE)
21= 2100 BAND (09=0900,18=1800)

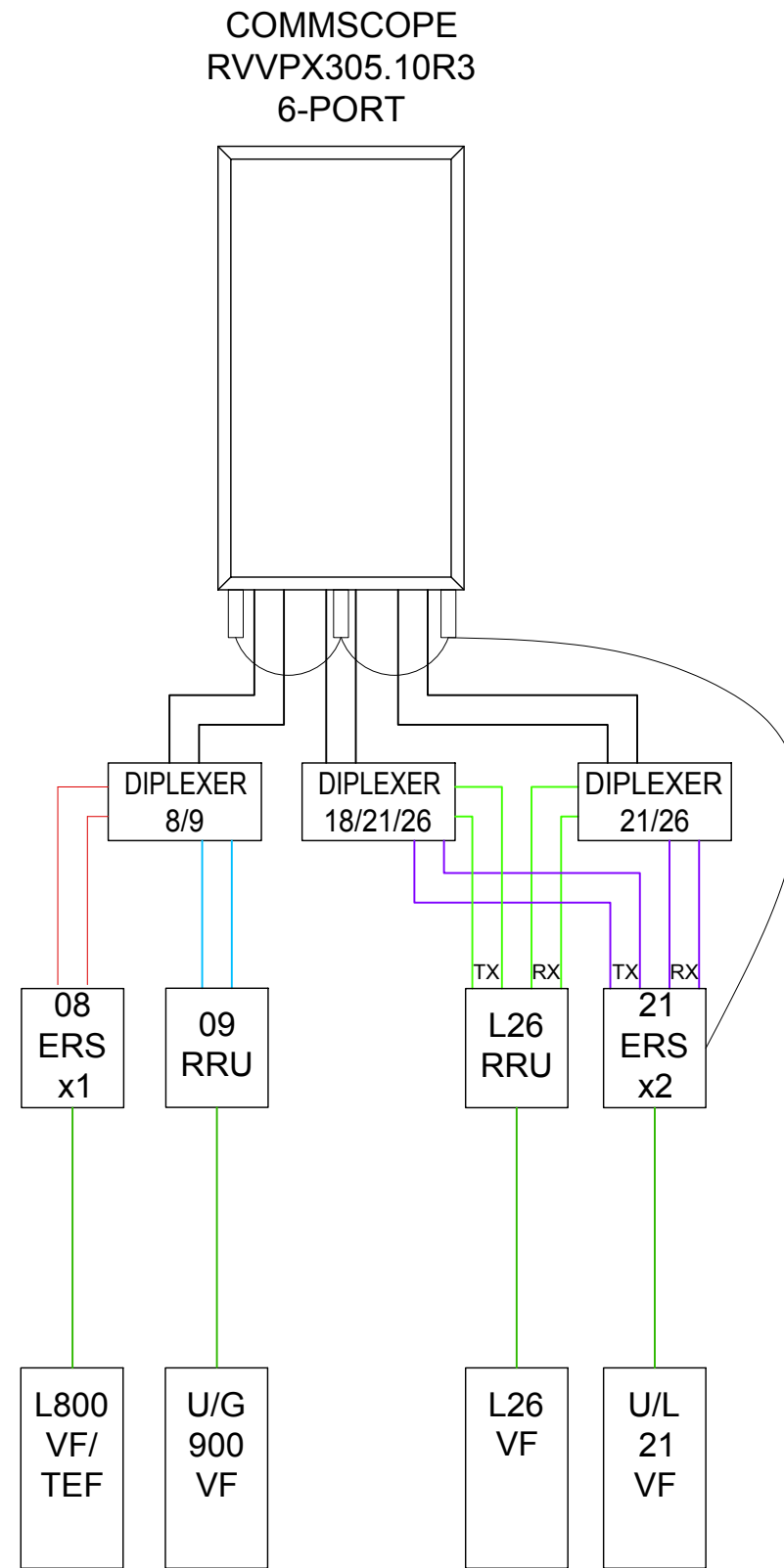
NEW = NEW ONTO SITE
EXISTING = ON SITE AND NOT BEING MOVED
RE-USE = ON SITE BUT BEING MOVED

VF = VODAFONE
TEF = TELEFONICA

TOTAL DISTANCE MEASURED FROM MHA TO BTS CABINET. NOTE: FOR STREET POLES THE TOTAL IS TO INCLUDE THE $\frac{7}{8}$ FEEDER (TEF) & $\frac{1}{2}$ FEEDER (VFU21) PRE-RIGGED IN THE POLE. IF FEEDER DIAMETER VARIES THE LENGTHS ARE TO BE ITEMISED SEQUENTIALLY IN THE COLUMNS FROM THE ANTENNA MHA TO THE BTS AS FOLLOWS: MAIN FEEDER, MAIN FEEDER JUMPER 1, MAIN FEEDER JUMPER 2. TOTAL LENGTH

MX5-OPTION 5 - E_XRS_350_2610

RET CONTROLLED VIA
U2100 BTS & OR L800



VODAFONE ANTENNA SCHEMATIC

GENERAL NOTES:

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NET COVERAGE SOLUTIONS
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STANHOPE ROAD
CAMBERLEY
SURREY GU15 3BS

TEL: +44(0)1276 854440
FAX: +44(0)1276 854450



CTIL

OPERATOR REF NO. CTILid:234171 TEF:78556 VF:13828

OPERATOR: CTIL

DRAWING TITLE: VODAFONE ANTENNA SCHEMATIC PROPOSED

SCALE: N/A

SITE NO. 13828

SITE NAME: TAVIS HOUSE

SITE ADDRESS: 1-6 TAVISTOCK SQUARE
LONDON
WC1H 9NB

OS GRID REFERENCE:
529966/182336

DRAWN: KJS CHK: DJ APP: DJ

DATE: 07.12.16

| SITE NO. | OPERATOR | DRG NO. | REVISION |
|----------|----------|---------|----------|
| 13828 | CTIL | 502 | E |

ORIGINAL DRAWING SIZE: A3

London 6 Sector Working – Configuration “LGD-S-M-E1c-F” with all technologies at 3 Sector working where 6S upgrade is expected

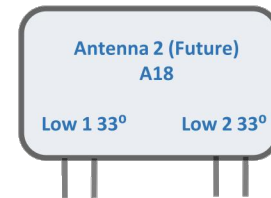
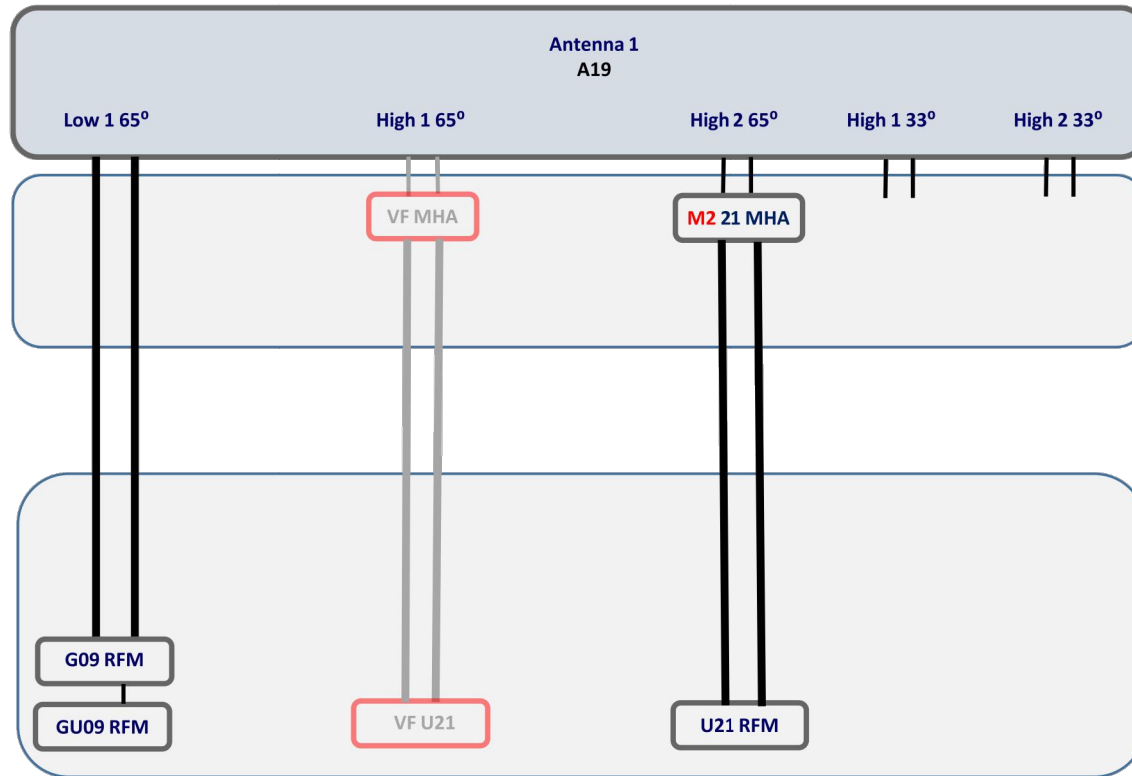
Antenna

MHA's

Antenna end combiners

BTS end Combiners

Nokia Flexi Equipment



Note: Type 5 combiner may be required if existing G900 Ultrasite Equipment is deployed

| Antenna Requirements | | |
|----------------------|------------------------------|----------|
| Identifier | Description | Quantity |
| A19 | Commscope Hybrid | 3 |
| A18 | Commscope Dual Beam Low Band | Future |

| BTS end Combiner Requirements | | |
|-------------------------------|-------------|----------|
| Identifier | Description | Quantity |
| | | |
| | | |

| Antenna end Combiner Requirements | | |
|-----------------------------------|-------------|----------|
| Identifier | Description | Quantity |
| | | |
| | | |

| MHA and SBT Requirements | | |
|--------------------------|--------------|-----------------|
| Identifier | Description | Quantity |
| M2 | 2100 MHA | 3 |
| S1 | Smart Bias T | 0 - RET Via U21 |

In Confidence - TUK and external partners less Vodafone

TEF ANTENNA SCHEMATIC

GENERAL NOTES:
 1.1) USE WRITTEN DIMENSIONS ONLY
 1.2) ALL DIMENSIONS ARE IN MM UNLESS SPECIFIED
 1.3) ASSUME ALL SITE DETAILS ARE EXISTING UNLESS SPECIFIED

| REV | ISSUE | DATE | DRN | APP |
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 CRAVEN COURT
 STANHOPE ROAD
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 TEL: +44(0)1276 854440
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OPERATOR REF NO. CTILid:234171 TEF:78556 VF:13828

OPERATOR: CTIL

DRAWING TITLE: TEF ANTENNA SCHEMATIC PROPOSED

SCALE: N/A

SITE NO. 13828

SITE NAME: TAVIS HOUSE

SITE ADDRESS: 1-6 TAVISTOCK SQUARE
 LONDON
 WC1H 9NB

OS GRID REFERENCE:
 529966/182336

DRAWN: KJS CHK: DJ APP: DJ

DATE: 07.12.16

| SITE NO. | OPERATOR | DRG NO. | REVISION |
|----------|----------|---------|----------|
| 13828 | - CTIL - | 503 | - E |

ORIGINAL DRAWING SIZE: A3

| EQUIPMENT SCHEDULE | | | | | | |
|--------------------|----------|--------------|-------------------------|----------------|-----------------------|---------------------------|
| STATUS | OPERATOR | MANUFACTURER | TYPE | SIZE | COLOUR | COMMENTS |
| PROPOSED | VODAFONE | TYRONE | CSC ENCLOSURE | 800x660x1770mm | RAL 7035 - LIGHT GREY | c/w PROPOSED TRANSMISSION |
| PROPOSED | VODAFONE | ERICSSON | MULTI-STANDARD RRU 32 | 306x690x178mm | RAL 7035 - LIGHT GREY | 6No. REQUIRED. |
| PROPOSED | VODAFONE | ERICSSON | RADIO SYSTEM (ERS) 2217 | 298x351x127mm | RAL 7035 - LIGHT GREY | 9No. REQUIRED. |
| PROPOSED | TEF | ELTEK | FP2 4th GEN. PSU (O/D) | 700x820x1800 | RAL 7035 - LIGHT GREY | c/w PROPOSED TRANSMISSION |
| PROPOSED | TEF | NSN | FLATPACK RACK (OD) | 700x820x1800 | RAL 7035 - LIGHT GREY | 2No. REQUIRED |

| POWER SUPPLY SOURCE | | | | | | |
|---------------------|----------|--------------|------|------|--------|---|
| STATUS | OPERATOR | MANUFACTURER | TYPE | SIZE | COLOUR | COMMENTS |
| PROPOSED | - | - | - | - | - | ROOFTOP DB - SINGLE PHASE SUB-METERED LANDLORD SUPPLY |

| TRANSMISSION ENCLOSURE | | | | | | COMMENTS |
|------------------------|-----------|--|----------------------|---|--|----------|
| STATUS | ENCLOSURE | TRANSMISSION SOLUTION MICROWAVE ONLY/FIBRE ONLY (WITH PROVIDER NAME)/ MICROWAVE + FIBRE (WITH PROVIDER NAME) | U SPACE AVAILABLE | CURRENT TRANSMISSION KIT LOCATION | PROPOSED TRANSMISSION KIT LOCATION | |
| PROPOSED | CSC | FIBRE (SUPPLIER TBC) | 7U | - | X | - |
| PROPOSED | ELTEK | FIBRE (SUPPLIER TBC) | 15U | - | X | - |

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- 1.1) USE WRITTEN DIMENSIONS ONLY
- 1.2) ALL DIMENSIONS ARE IN MM UNLESS SPECIFIED
- 1.3) ASSUME ALL SITE DETAILS ARE EXISTING UNLESS SPECIFIED

| | | | | |
|-----|---|----------|-----|-----|
| E | NORTH WEST ELEVATION ADDED | 04.04.17 | GB | GD |
| D | EQUIPMENT SUPPORT DETAILS AMENDED | 04.01.17 | GB | GD |
| C | VF SCHEMATIC UPDATED | 16.12.16 | NP | GD |
| B | CABINETS POSITION REVISED. BEARINGS REVISED | 13.12.16 | NP | GD |
| A | FIRST ISSUE | 07.12.16 | KJS | DJ |
| REV | ISSUE | DATE | DRN | APP |

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NET COVERAGE SOLUTIONS
CRAVEN COURT
STANHOPE ROAD
CAMBERLEY
SURREY GU15 3BS

TEL: +44(0)1276 854440
FAX: +44(0)1276 854450



CTIL

OPERATOR REF NO. CTILid:234171 TEF:78556 VF:13828

OPERATOR: CTIL

DRAWING TITLE: EQUIPMENT SCHEDULE
PROPOSED

SCALE: N/A

SITE NO. 13828

SITE NAME: TAVIS HOUSE

SITE ADDRESS: 1-6 TAVISTOCK SQUARE
LONDON
WC1H 9NB

OS GRID REFERENCE:
529966/182336

DRAWN: KJS CHK: DJ APP: DJ

DATE: 07.12.16

| SITE NO. | OPERATOR | DRG NO. | REVISION |
|----------|----------|---------|----------|
| 13828 | - CTIL - | 504 | - E |

ORIGINAL DRAWING SIZE: A3