



Coates Surveys Limited accepts no responsibility for use of this plan outside of the original remit, or by use of any party other than the original client. Whilst every effort has been made to identify all above ground details, it should

Below ground drainage information as been visually inspected from the surface

Where this survey has been carried out for the purpose of enabling trackside drainage design. The position of any running rail has been surveyed in line with a general topographic survey and should not be used for the purpose of track

All dimensions to be checked on site prior to design and construction.

| | Lege | nd | |
|--|-----------|----------------------------|----------|
| AIR VALVE | AV | WATER TAP | TAP |
| BOLLARD | BD | TEMPORARY BENCH MARK | TBM |
| BORE HOLE | BHL | TELEPHONE CALL BOX | TCB |
| BUS STOP | BS | TELEPHONE POST | TEL |
| BT INSPECTION COVER | BT | THRESHOLD LEVEL | THL |
| BT BOX | втв | TRAFFIC LIGHT | TL |
| CABLE TV INSPECTION COVER | CTV | TOP OF WALL | TOW |
| COVER LEVEL | CL | TELEGRAPH POLE | TP |
| DOWN PIPE | DP | UNABLE TO LIFT | UTL |
| DROPPED KERB | DK | VENT PIPE | VP |
| ELECTRICITY CONTROL BOX | ECB | RAIL WELD | WE |
| EAVES HEIGHT | EH | WATER METER | WM |
| ELECTRICITY MANHOLE | EM | WASHOUT | WO |
| ELECTRICITY POLE | EP | | |
| EARTH ROD | ER | | |
| FINISHED FLOOR LEVEL | FFL | | 0004 |
| FIRE HYDRANT | FH | SURVEY STATION \triangle | GCS1 |
| FOUL WATER | FW | | |
| GULLY | GY | | 3 |
| GATE POST | GP | BUSHES (2 BH | `.) |
| GAS VALVE | GV | • | ~ |
| INSULATED BLOCK JOINT INSPECTION COVER | IBJ IC | ~~~ | ~~ |
| INVERT LEVEL | IL | HEDGES | |
| KERB OUTLET | KO | | |
| LAMPPOST | LP | | |
| LITTER BIN | LB | TREES Height | 7 |
| MARKER POST | MK | Species | . " \ |
| MILE POST | MP | (Spread to scale) | レル |
| POST | PO | | \smile |
| RODDING EYE | RE | GATE | |
| RIDGE HEIGHT | RH | GATE | |
| ROAD NAMEPLATE | RN | | |
| ROAD SIGN | RS | SECURITY FENCEx | -× |
| STUMP | SP | FENCE —/— | -/ |
| SOFFIT LEVEL | SF | O VEI TILL ON TOPE CO | - он —— |
| SIGNAL POST | SIG | FOUL WATER FW | -FW |
| RAIL SLEEPER LEVEL | SLP | | - GM |
| SIGNALS AND TELECOMS BOX | STB | 0.0.0.0 | PL |
| SIGNALS AND TELECOMS CABLE | STC | 0.0 | ·sw |
| SIGNALS AND TELECOMS POST | STP | 0.0 | TEL |
| SIGN POST | SN | WATER MAIN — WM — | - WM |
| STOP TAP | ST | | |
| STOP VALVE | SV | | |
| STAY | SY | | |

| Control Table | | | | | | | | | |
|---------------|-------------|----------|-----------|--------|--|--|--|--|--|
| Station | Description | Eastings | Northings | Height | | | | | |
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Grid and Datum

Grid: OS National Grid Datum: Ordnance Datum Newlyn Survey related to Ordnance Survey National Grid (OSGB36) via GPS and the OS Active Network. A National Grid (OSGB36) coordinate has been established on site via Transformation OSTN15 and Geoid Model OSGM15, a further OS coordinate was used to orientate the survey to Ordnance Grid.

> WATERCOURSE SURVEY AT Blythe Park, Cresswell, Stoke on Trent (Key Plan)

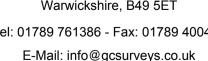
JBA CONSULTING The Library St. Philip's Courtyard Coleshill Warwickshire B46 3AD

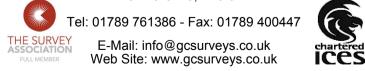
Grantham Coates

Surveys

Land - Engineering - Building Surveyors

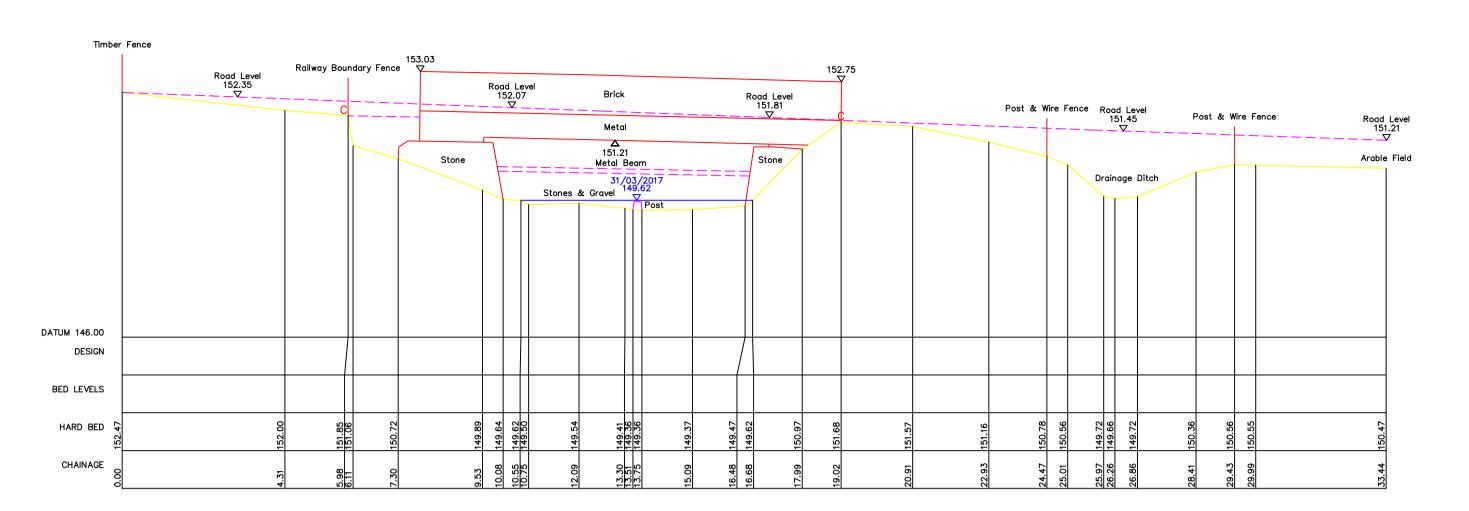
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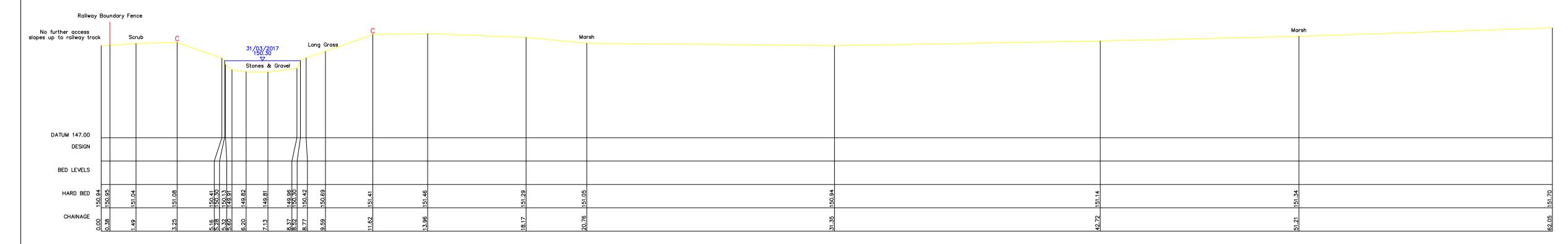




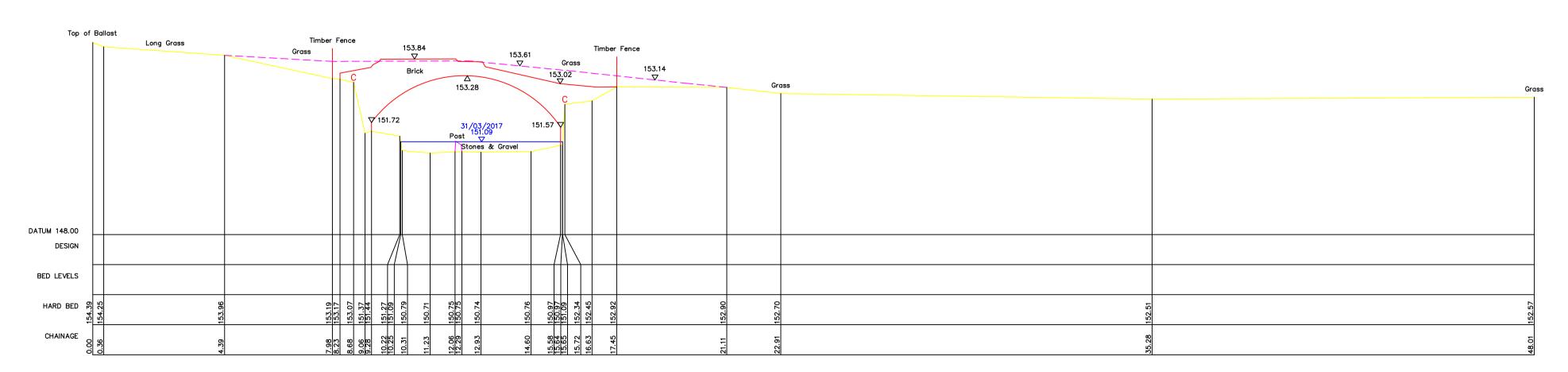
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XS1 398632.12mE 338629.71mN Brg 177 Chainage0.1 Upstream Face of Road Bridge (Length 8m)



XS2 398495.44mE 338730.39mN Brg 219 Chainage181 Open Channel



XS3 398321.32mE 338848.27mN Brg 210 Chainage391.1 Upstream Face of Access Bridge (Length 4.3m)



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All dimensions to be checked on site prior to design and construction.

| | Lege | nd | |
|----------------------------|----------|--------------------------------------|--------------|
| AIR VALVE | AV | WATER TAP | TAP |
| BOLLARD | BD | TEMPORARY BENCH MARK | TBM |
| BORE HOLE | BHL | TELEPHONE CALL BOX | TCB |
| BUS STOP | BS | TELEPHONE POST | TEL |
| BT INSPECTION COVER | BT | THRESHOLD LEVEL | THL |
| BT BOX | втв | TRAFFIC LIGHT | TL |
| CABLE TV INSPECTION COVER | CTV | TOP OF WALL | TOW |
| COVER LEVEL | CL | TELEGRAPH POLE | TP |
| DOWN PIPE | DP | UNABLE TO LIFT | UTL |
| DROPPED KERB | DK | VENT PIPE | VP |
| ELECTRICITY CONTROL BOX | ECB | RAIL WELD | WE |
| EAVES HEIGHT | EH | WATER METER | WM |
| ELECTRICITY MANHOLE | EM | WASHOUT | WO |
| ELECTRICITY POLE | EP | | |
| EARTH ROD | ER | | |
| FINISHED FLOOR LEVEL | FFL | | |
| FIRE HYDRANT | FH | SURVEY STATION \(\triangle \text{G} | iCS1 |
| FOUL WATER | FW | | |
| GULLY | GY | | |
| GATE POST | GP | BUSHES (BH) |) |
| GAS VALVE | GV | \smile | |
| INSULATED BLOCK JOINT | IBJ | | |
| INSPECTION COVER | IC | HEDGES | -`-` |
| INVERT LEVEL | IL | ~~~ | ~~ |
| KERB OUTLET | KO | | |
| LAMPPOST | LP | TREES Height (| , 7 |
| LITTER BIN | LB | TREES Species | • (|
| MARKER POST | MK | (Spread to scale) | .) |
| MILE POST | MP | (5) | <i>\(\)</i> |
| POST | PO | | |
| RODDING EYE | RE | GATE | - |
| RIDGE HEIGHT | RH | | _ |
| ROAD NAMEPLATE | RN | | |
| ROAD SIGN | RS | SECURITY FENCE | ` |
| STUMP | SP | FENCE | |
| SOFFIT LEVEL | SF | OVERHEAD CABLES—OH—O | |
| SIGNAL POST | SIG | FOUL WATER — FW — F | |
| RAIL SLEEPER LEVEL | SLP | GAS MAIN —— GM —— GI | |
| SIGNALS AND TELECOMS BOX | STB | O/O/O/ICINE | _ |
| SIGNALS AND TELECOMS CABLE | STC | OTOTAL WATER | |
| SIGNALS AND TELECOMS POST | STP | O/O ILLLI HOME | |
| SIGN POST | SN | WATER MAIN — WM — WI | vı ——— |
| STOP YALVE | ST | | |
| STOP VALVE STAY | SV | | |
| STORM WATER | SY SW | | |
| STURIVI WATER | 244 | | |
| | | | |

| Control Table | | | | | | | |
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| Description | Eastings | Northings | Heigh | | | | |
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| | Description | | | | | | |

Grid and Datum

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WATERCOURSE SURVEY AT Blythe Park, Cresswell, Stoke on Trent (Cross Sections)

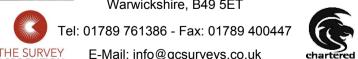
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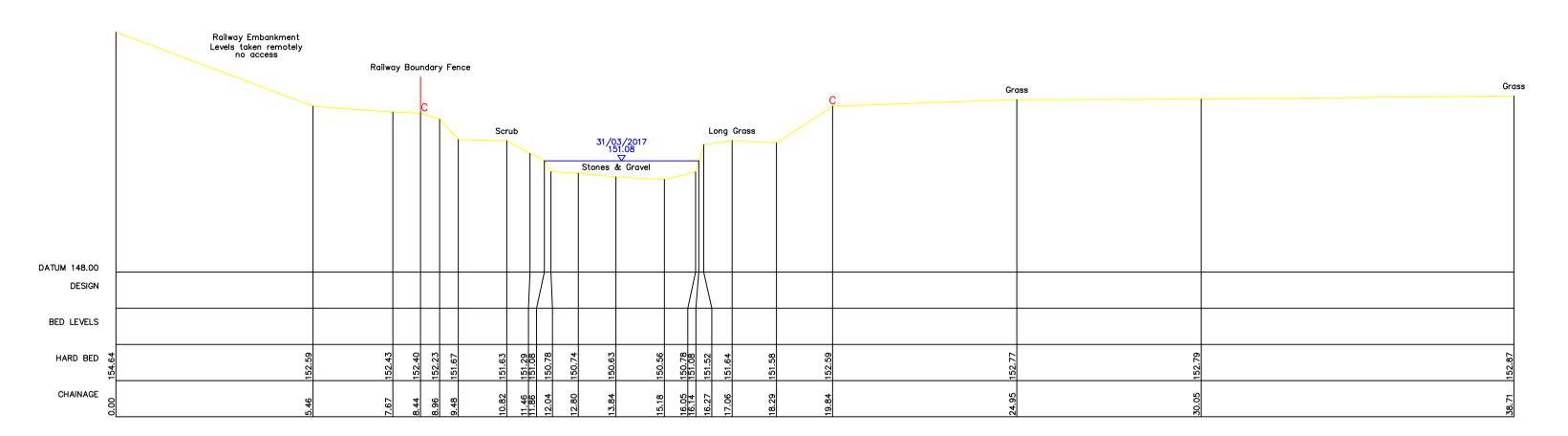
Land - Engineering - Building Surveyors

Minerva Mill, Station Road, Alcester, Warwickshire, B49 5ET

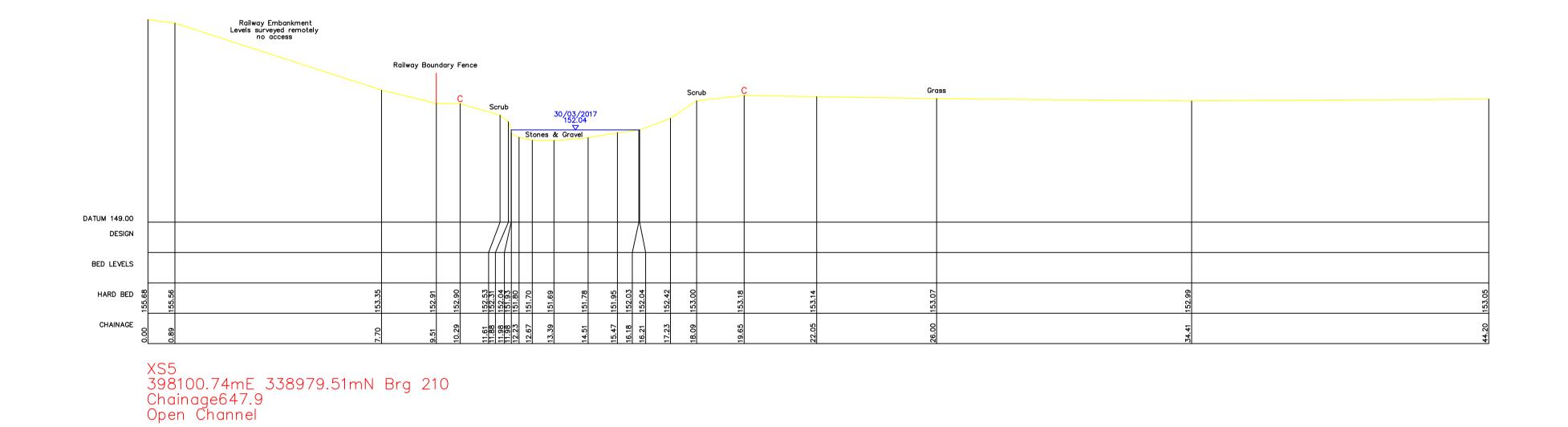


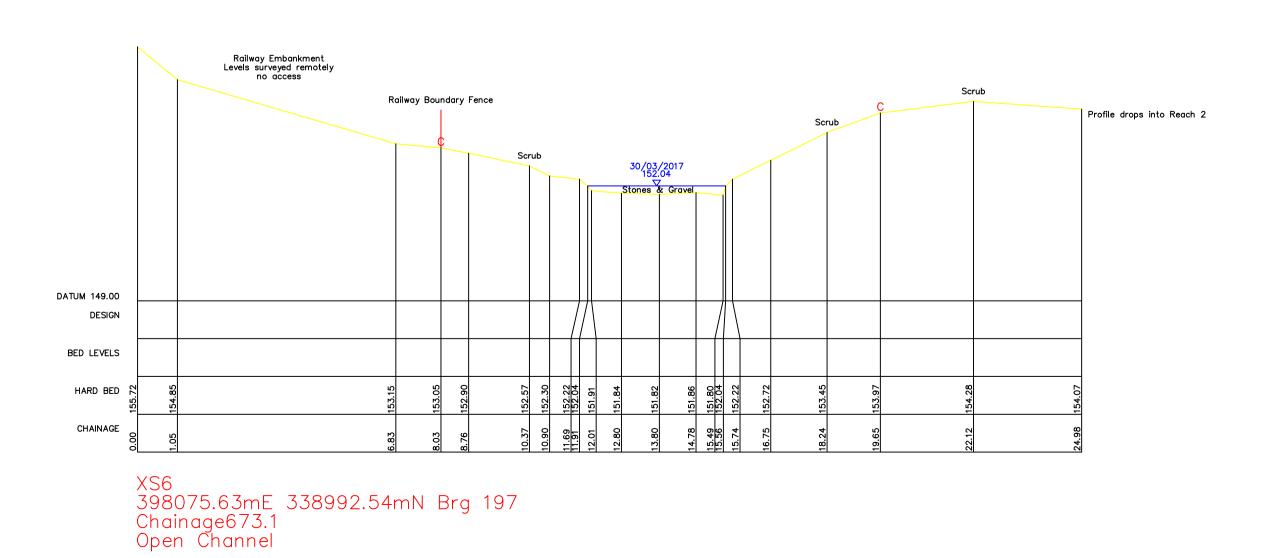


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XS4 398295.96mE 338864.37mN Brg 207 Chainage420 Open Channel







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All dimensions to be checked on site prior to design and construction.

| | Leg | end | |
|----------------------------|-----------|---|------------|
| AID VALVE | | | |
| AIR VALVE BOLLARD | AV | WATER TAP | TAP |
| BORE HOLE | BD BHL | TEMPORARY BENCH MARK TELEPHONE CALL BOX | TBM TCB |
| BUS STOP | BS | TELEPHONE CALL BOX TELEPHONE POST | TEL |
| | | | |
| BT INSPECTION COVER | BT | THRESHOLD LEVEL | THL TL |
| BT BOX | BTB | TRAFFIC LIGHT | . – |
| CABLE TV INSPECTION COVER | CTV | TOP OF WALL | TOW |
| COVER LEVEL | CL | TELEGRAPH POLE | TP |
| DOWN PIPE | DP | UNABLE TO LIFT | UTL |
| DROPPED KERB | DK | VENT PIPE | VP |
| ELECTRICITY CONTROL BOX | ECB | RAIL WELD | WE |
| EAVES HEIGHT | EH | WATER METER | WM |
| ELECTRICITY MANHOLE | EM | WASHOUT | WO |
| ELECTRICITY POLE | EP | | |
| EARTH ROD | ER | | |
| FINISHED FLOOR LEVEL | FFL | | |
| FIRE HYDRANT | FH | SURVEY STATION | GCS1 |
| FOUL WATER | FW | | |
| GULLY | GY | C | ` |
| GATE POST | GP | BUSHES (2 BH |) |
| GAS VALVE | GV | \sim | |
| INSULATED BLOCK JOINT | IBJ | | |
| INSPECTION COVER | IC | HEDGES | ~~~ |
| INVERT LEVEL | IL | ~~ | ~~ |
| KERB OUTLET | KO | | |
| LAMPPOST | LP | TDEES Height | ' |
| LITTER BIN | LB | TREES Species | 0 |
| MARKER POST | MK | (Spread to scale) | |
| MILE POST | MP | (Spread to scale) | マン |
| POST | PO | | |
| RODDING EYE | RE | GATE | |
| RIDGE HEIGHT | RH | GATE | |
| ROAD NAMEPLATE | RN | | |
| ROAD SIGN | RS | SECURITY FENCEx | -× |
| STUMP | SP | FENCE —/— | -/ |
| SOFFIT LEVEL | SF | OVERHEAD CABLES OH | он —— |
| SIGNAL POST | SIG | FOUL WATER FW | FW |
| RAIL SLEEPER LEVEL | SLP | GAS MAIN —— GM —— | GM |
| SIGNALS AND TELECOMS BOX | STB | U/G POWER LINEPL | PL |
| SIGNALS AND TELECOMS CABLE | STC | | sw |
| SIGNALS AND TELECOMS POST | STP | U/G TELEPHONETEL | TEL |
| SIGN POST | SN | | wm |
| STOP TAP | ST | | |
| STOP VALVE | SV | | |
| STAY | SY | | |
| STORM WATER | SW | | |
| J. J 11111E11 | 3** | | |

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| | | Control Table | | | | |
| Station | Description | Eastings | Northings | Heigh | | |
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No scale factor has been applied to the survey

Title:

WATERCOURSE SURVEY AT Blythe Park, Cresswell, Stoke on Trent (Cross Sections)

Client:

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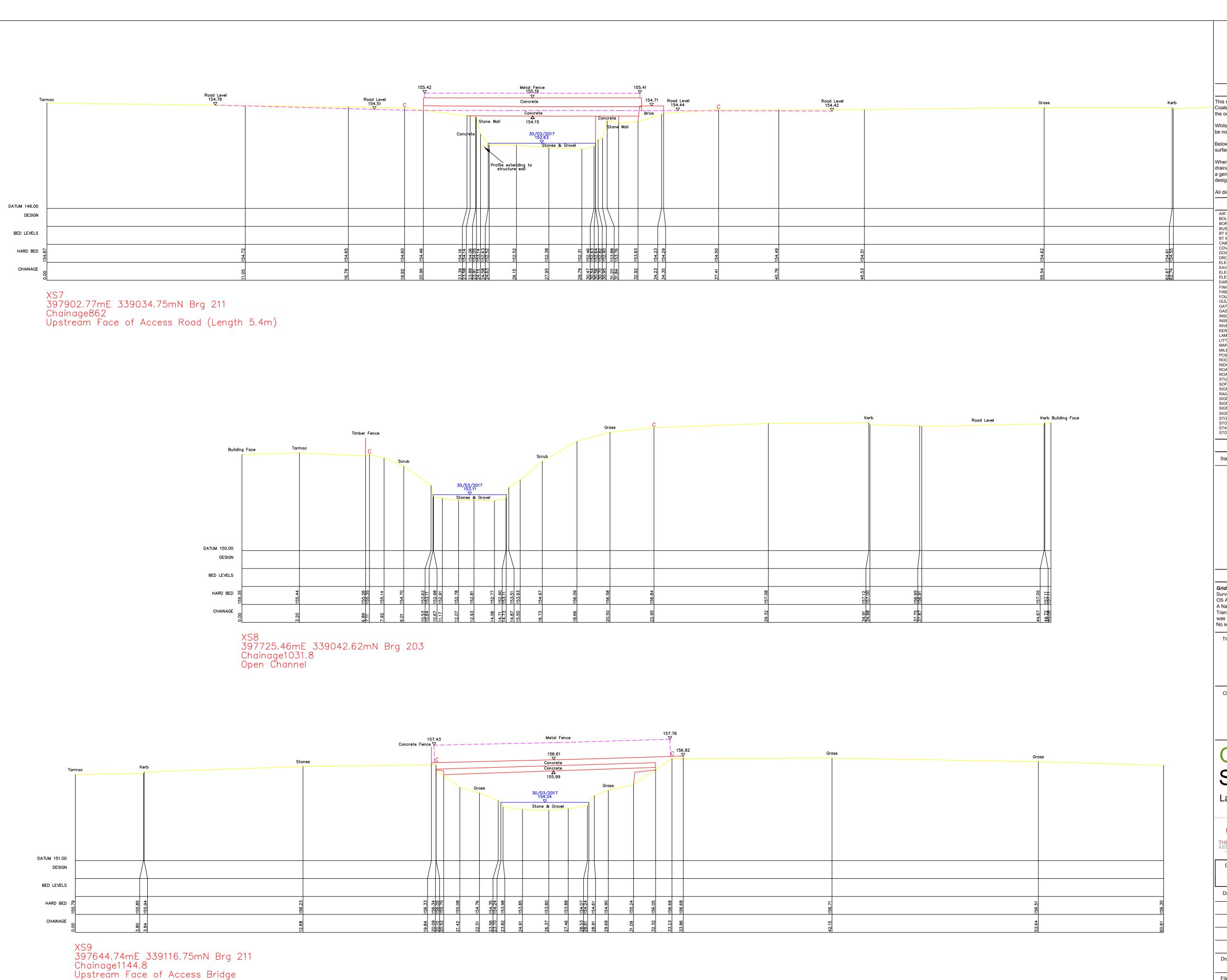
Land - Engineering - Building Surveyors

Minerva Mill, Station Road, Alcester,
Warwickshire, B49 5ET I: 01789 761386 - Fax: 01789 400447



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Sheet size: A1 Sheet: 3 of 9 File Name: GCS-JBA-020217-1





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| | Leger | nd | |
|----------------------------|----------|------------------------|-------------|
| AIR VALVE | AV | WATER TAP | TA |
| BOLLARD | BD | TEMPORARY BENCH MARK | TBI |
| BORE HOLE | BHL | TELEPHONE CALL BOX | TC |
| BUS STOP | BS | TELEPHONE POST | TEI |
| BT INSPECTION COVER | BT | THRESHOLD LEVEL | TH |
| BT BOX | BTB | TRAFFIC LIGHT | TL |
| CABLE TV INSPECTION COVER | CTV | TOP OF WALL | TO |
| COVER LEVEL | CL | TELEGRAPH POLE | TP |
| DOWN PIPE | DP | UNABLE TO LIFT | UT |
| DROPPED KERB | DK | VENT PIPE | VP |
| ELECTRICITY CONTROL BOX | ECB | RAIL WELD | WE |
| EAVES HEIGHT | EH | WATER METER | WN |
| ELECTRICITY MANHOLE | EM | WASHOUT | WC |
| ELECTRICITY POLE | EP | | |
| EARTH ROD | ER | | |
| FINISHED FLOOR LEVEL | FFL | | ▲ GCS1 |
| FIRE HYDRANT | FH | SURVEY STATION | \triangle |
| FOUL WATER | FW | | |
| GULLY | GY | BUILLES | |
| GATE POST GAS VALVE | GP GV | BUSHES | (BH) |
| INSULATED BLOCK JOINT | IBJ | | • |
| INSPECTION COVER | IC | ~ | ~~~ |
| INVERT LEVEL | IL | HEDGES | |
| KERB OUTLET | KO | | |
| LAMPPOST | LP | | |
| LITTER BIN | LB | TREES Height | / |
| MARKER POST | MK | Species | 1 |
| MILE POST | MP | (Spread to scale | e) 🔾 🟒 |
| POST | PO | | \smile |
| RODDING EYE | RE | GATE | |
| RIDGE HEIGHT | RH | GATE | |
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| STUMP | SP | FENCE —/- | / |
| SOFFIT LEVEL | SF | OVERHEAD CABLES OH | — он — |
| SIGNAL POST | SIG | FOUL WATER FW | —— FW — |
| RAIL SLEEPER LEVEL | SLP | GAS MAIN —— GM- | |
| SIGNALS AND TELECOMS BOX | STB | U/G POWER LINE —— PL - | |
| SIGNALS AND TELECOMS CABLE | STC | STORM WATER SW- | |
| SIGNALS AND TELECOMS POST | STP | U/G TELEPHONE ——TEL- | |
| SIGN POST | SN | WATER MAIN WM- | — wм— |
| STOP TAP | ST | | |
| STOP VALVE | SV | | |
| STAY | SY | | |
| STORM WATER | SW | | |
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| Control Table | | | | | | | | |
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| Station | Description | Eastings | stings Northings | | | | | |
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| | | Grid and Dat | tum | | | | | |

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Client:

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Grantham Coates

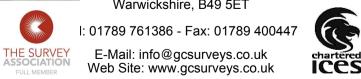
Surveys

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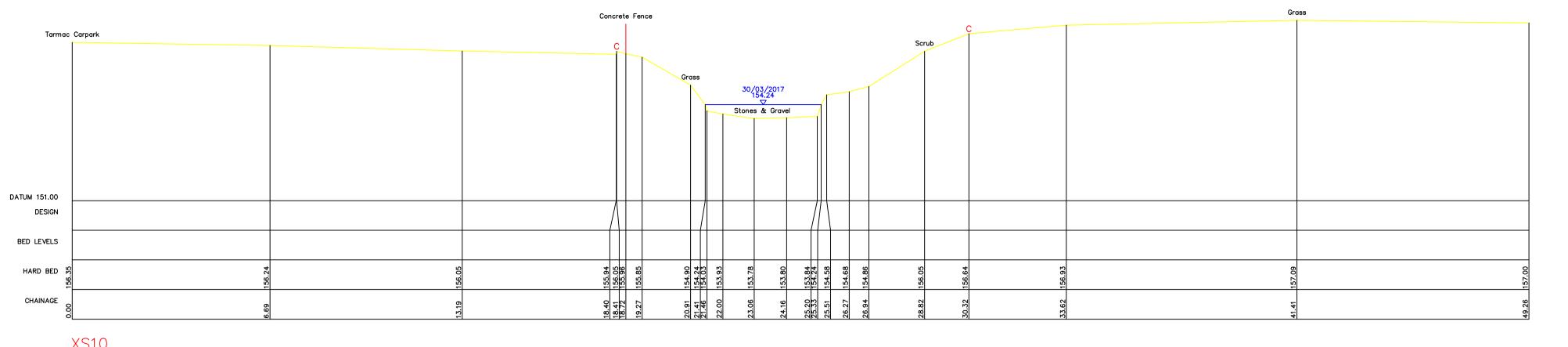
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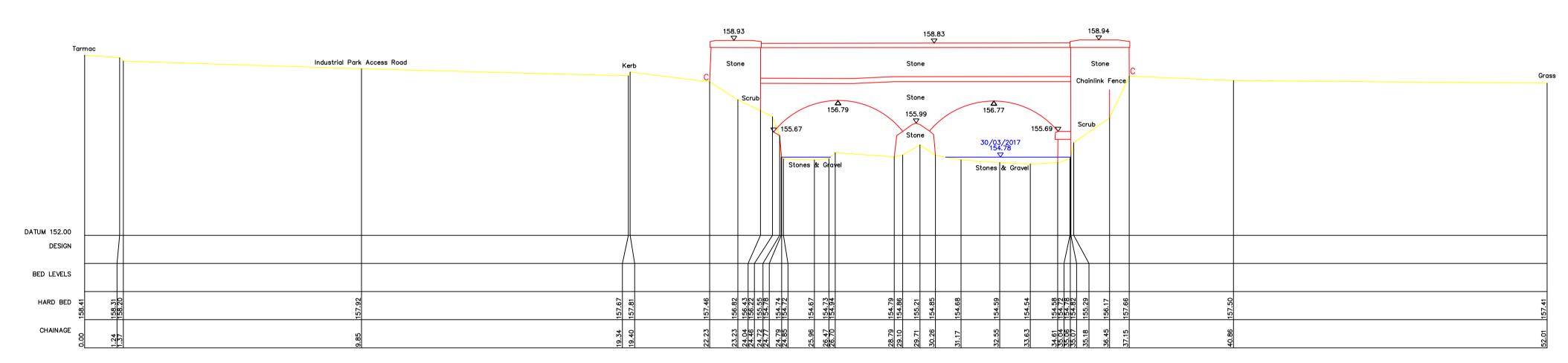




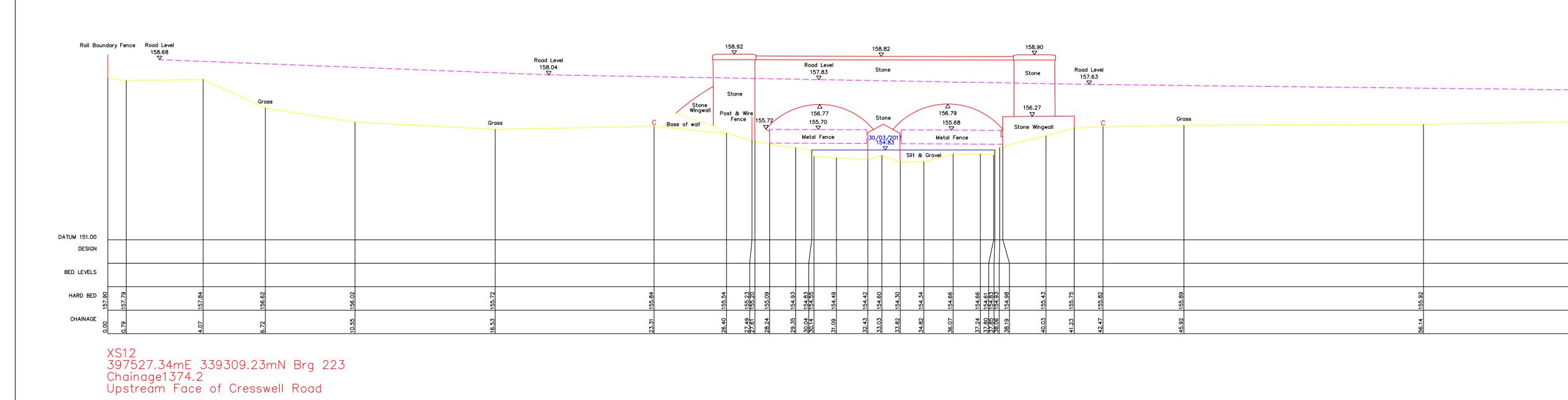
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| File Name: | | | Chaotai | | Chaoti | | |



XS10 397628.73mE 339142.52mN Brg 238 Chainage1188 Open Channel



XS11 397532.08mE 339299.82mN Brg 223 Chainage1364.1 Downstream Face of Cresswell Road





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| | Lege | nd | |
|----------------------------|------|------------------------------|--------------------|
| AIR VALVE | AV | WATER TAP | TAP |
| BOLLARD | BD | TEMPORARY BENCH MARK | TBM |
| BORE HOLE | BHL | TELEPHONE CALL BOX | TCB |
| BUS STOP | BS | TELEPHONE POST | TEL |
| BT INSPECTION COVER | BT | THRESHOLD LEVEL | THL |
| BT BOX | втв | TRAFFIC LIGHT | TL |
| CABLE TV INSPECTION COVER | CTV | TOP OF WALL | TOW |
| COVER LEVEL | CL | TELEGRAPH POLE | TP |
| DOWN PIPE | DP | UNABLE TO LIFT | UTL |
| DROPPED KERB | DK | VENT PIPE | VP |
| ELECTRICITY CONTROL BOX | ECB | RAIL WELD | WE |
| EAVES HEIGHT | EH | WATER METER | WM |
| ELECTRICITY MANHOLE | EM | WASHOUT | WO |
| ELECTRICITY POLE | EP | | |
| EARTH ROD | ER | | |
| FINISHED FLOOR LEVEL | FFL | | |
| FIRE HYDRANT | FH | SURVEY STATION \triangle G | CS1 |
| FOUL WATER | FW | CONVET CTATION - | |
| GULLY | GY | | |
| GATE POST | GP | BUSHES (BH) | |
| GAS VALVE | GV | | |
| INSULATED BLOCK JOINT | IBJ | | |
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| INVERT LEVEL | IL | | ~ |
| KERB OUTLET | KO | | |
| LAMPPOST | LP | TREES Height (| 7 |
| LITTER BIN | LB | TREES Species | •) |
| MARKER POST | MK | (Spread to scale) | ν |
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| POST | PO | | |
| RODDING EYE | RE | GATE | _ |
| RIDGE HEIGHT | RH | | |
| ROAD NAMEPLATE | RN | | |
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| STUMP | SP | FENCE ——/——/ | |
| SOFFIT LEVEL | SF | OVERHEAD CABLES OH OI | |
| SIGNAL POST | SIG | FOUL WATER ——FW——FV | • |
| RAIL SLEEPER LEVEL | SLP | GAS MAIN —— GM —— GI | |
| SIGNALS AND TELECOMS BOX | STB | U/G POWER LINE —— PL —— PL | |
| SIGNALS AND TELECOMS CABLE | STC | STORM WATER —— SW—— SV | |
| SIGNALS AND TELECOMS POST | STP | U/G TELEPHONE ——TEL——TE | _ |
| SIGN POST | SN | WATER MAIN — WM — WM | / — |
| STOP TAP | ST | | |
| STOP VALVE | SV | | |
| STAY | SY | | |
| STORM WATER | SW | | |

| Control Table | | | | | |
|---------------|-------------|----------|-----------|--------|--|
| Station | Description | Eastings | Northings | Height | |
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Grid and Datum

Grid: OS National Grid Datum: Ordnance Datum Newlyn Survey related to Ordnance Survey National Grid (OSGB36) via GPS and the OS Active Network. A National Grid (OSGB36) coordinate has been established on site via Transformation OSTN15 and Geoid Model OSGM15, a further OS coordinate

was used to orientate the survey to Ordnance Grid. No scale factor has been applied to the survey

WATERCOURSE SURVEY AT Blythe Park, Cresswell, Stoke on Trent (Cross Sections)

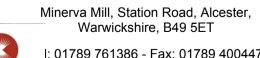
Client:

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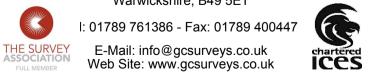
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Surveys

Land - Engineering - Building Surveyors

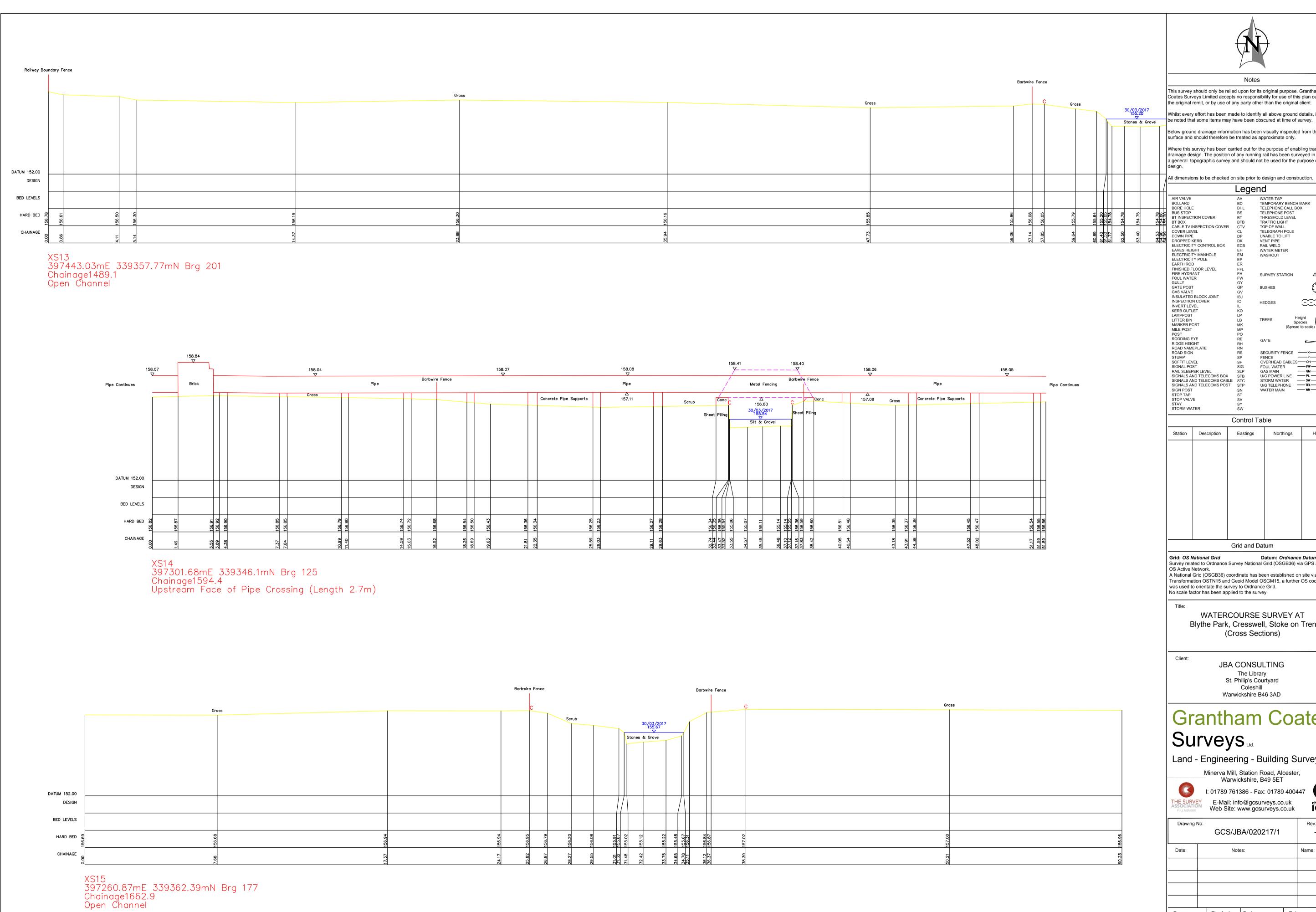


I: 01789 761386 - Fax: 01789 400447



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This survey should only be relied upon for its original purpose. Grantham Coates Surveys Limited accepts no responsibility for use of this plan outside of the original remit, or by use of any party other than the original client. Whilst every effort has been made to identify all above ground details, it should

Below ground drainage information has been visually inspected from the surface and should therefore be treated as approximate only.

Where this survey has been carried out for the purpose of enabling trackside drainage design. The position of any running rail has been surveyed in line with a general topographic survey and should not be used for the purpose of track

All dimensions to be checked on site prior to design and construction.

| / | | | • | |
|----------------|--------------------------------|----------|---|--------|
| 4 | | Lege | nd | |
| | AIR VALVE | AV | WATER TAP | TA |
| | BOLLARD | BD | TEMPORARY BENCH MARK | TE |
| | BORE HOLE | BHL | TELEPHONE CALL BOX | TC |
| | BUS STOP | BS | TELEPHONE POST | TE |
| 386 | BT INSPECTION COVER | BT | THRESHOLD LEVEL | TH |
| 54.86555.00 | BT BOX | ВТВ | TRAFFIC LIGHT | Τ̈́L |
| - | CABLE TV INSPECTION COVER | CTV | TOP OF WALL | TC |
| | COVER LEVEL | CL | TELEGRAPH POLE | TF |
| 96 | DOWN PIPE | DP | UNABLE TO LIFT | U1 |
| 64.96 64.99 | DROPPED KERB | DK | VENT PIPE | VF |
| | ELECTRICITY CONTROL BOX | ECB | RAIL WELD | W |
| | EAVES HEIGHT | EH | WATER METER | W |
| | ELECTRICITY MANHOLE | EM | WASHOUT | W |
| | ELECTRICITY POLE | EP | *************************************** | |
| | EARTH ROD | ER | | |
| | FINISHED FLOOR LEVEL | FFL | | |
| | FIRE HYDRANT | FH | SURVEY STATION | ∧ GCS1 |
| | FOUL WATER | FW | CONVETCIATION | _ |
| | GULLY | GY | | |
| | GATE POST | GP | BUSHES | вн 🕽 |
| | GAS VALVE | GV | ` | |
| | INSULATED BLOCK JOINT | IBJ | | |
| | INSPECTION COVER | IC | HEDGES | ~~~ |
| | INVERT LEVEL | IL | ~ | ~~~ |
| | KERB OUTLET | KO | | |
| | LAMPPOST | LP | TREES Height | (' · |
| | LITTER BIN | LB | TREES Species | (` ° |
| | MARKER POST | MK | (Spread to scale | . 7 |
| | MILE POST | MP | | |
| | POST | PO | | |
| | RODDING EYE | RE | GATE | |
| | RIDGE HEIGHT ROAD NAMEPLATE | RH RN | | |
| | ROAD NAMEFLATE ROAD SIGN | RS | SECURITY FENCEx- | × |
| | STUMP | SP | FENCE —/- | |
| | SOFFIT LEVEL | SF | OVERHEAD CABLES OH - | — он — |
| | SIGNAL POST | SIG | FOUL WATER — FW- | |
| | RAIL SLEEPER LEVEL | SLP | GAS MAIN — GM- | |
| | SIGNALS AND TELECOMS BOX | STB | U/G POWER LINE ——PL — | — PL — |
| | SIGNALS AND TELECOMS CABLE | STC | STORM WATER SW- | sw |
| | SIGNALS AND TELECOMS POST | STP | U/G TELEPHONETEL- | — TEL— |
| | SIGN POST | SN | WATER MAIN WM- | — wм— |
| | STOP TAP | ST | | |
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| | STAY | SY | | |
| | STORM WATER | SW | | |
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Surveys

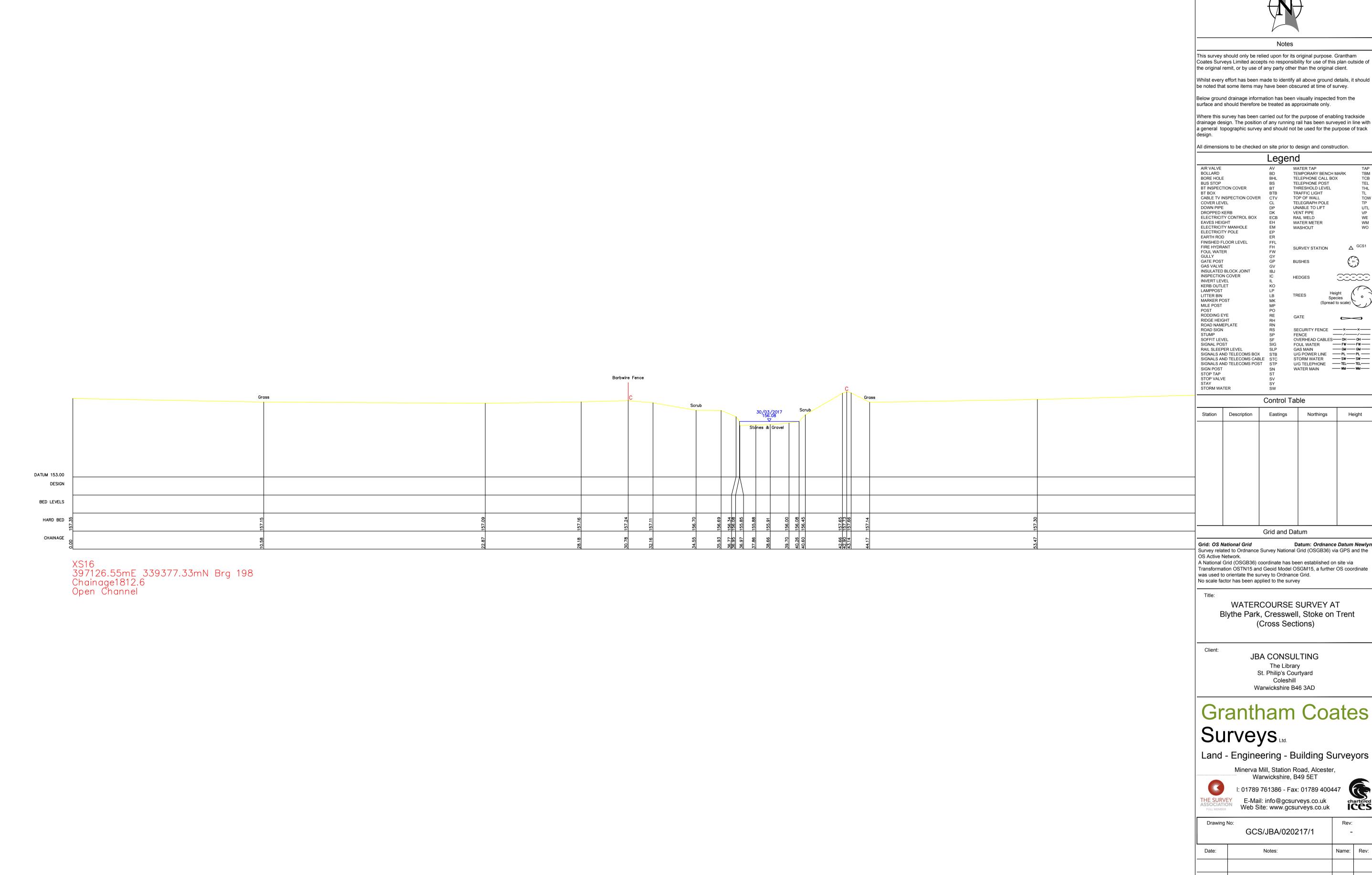
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| | Lege | nd | |
|----------------------------|----------|----------------------------|------------|
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| EARTH ROD | ER | | |
| FINISHED FLOOR LEVEL | FFL | . (| GCS1 |
| FIRE HYDRANT FOUL WATER | FH FW | SURVEY STATION \triangle | 3001 |
| GULLY | GY | _ | |
| GATE POST | GP | BUSHES (BH) | 4 |
| GAS VALVE | GV | BOSHES | / |
| INSULATED BLOCK JOINT | IBJ | | |
| INSPECTION COVER | IC | HEDGES | ~ |
| INVERT LEVEL | iL | HEDGES ——— | تحت |
| KERB OUTLET | ко | | |
| LAMPPOST | LP | Hailand (| |
| LITTER BIN | LB | TREES Height | 0 |
| MARKER POST | MK | Species (Spread to scale) | - |
| MILE POST | MP | (Spread to scale) | ノ レ |
| POST | PO | | |
| RODDING EYE | RE | GATE | _ |
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| ROAD NAMEPLATE | RN | | |
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| SOFFIT LEVEL | SF | | ж |
| SIGNAL POST | SIG | 1002 1771211 | w — |
| RAIL SLEEPER LEVEL | SLP | 0.101 | ЭМ —— |
| SIGNALS AND TELECOMS BOX | STB | 0.0.0. | <u></u> |
| SIGNALS AND TELECOMS CABLE | STC | OTOTAL TOTAL | W EL |
| SIGNALS AND TELECOMS POST | STP | O/O ILLLI HOIL | ЕL |
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| Control Table | | | | | | |
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| Station | Description | Eastings | Northings | Height | | |
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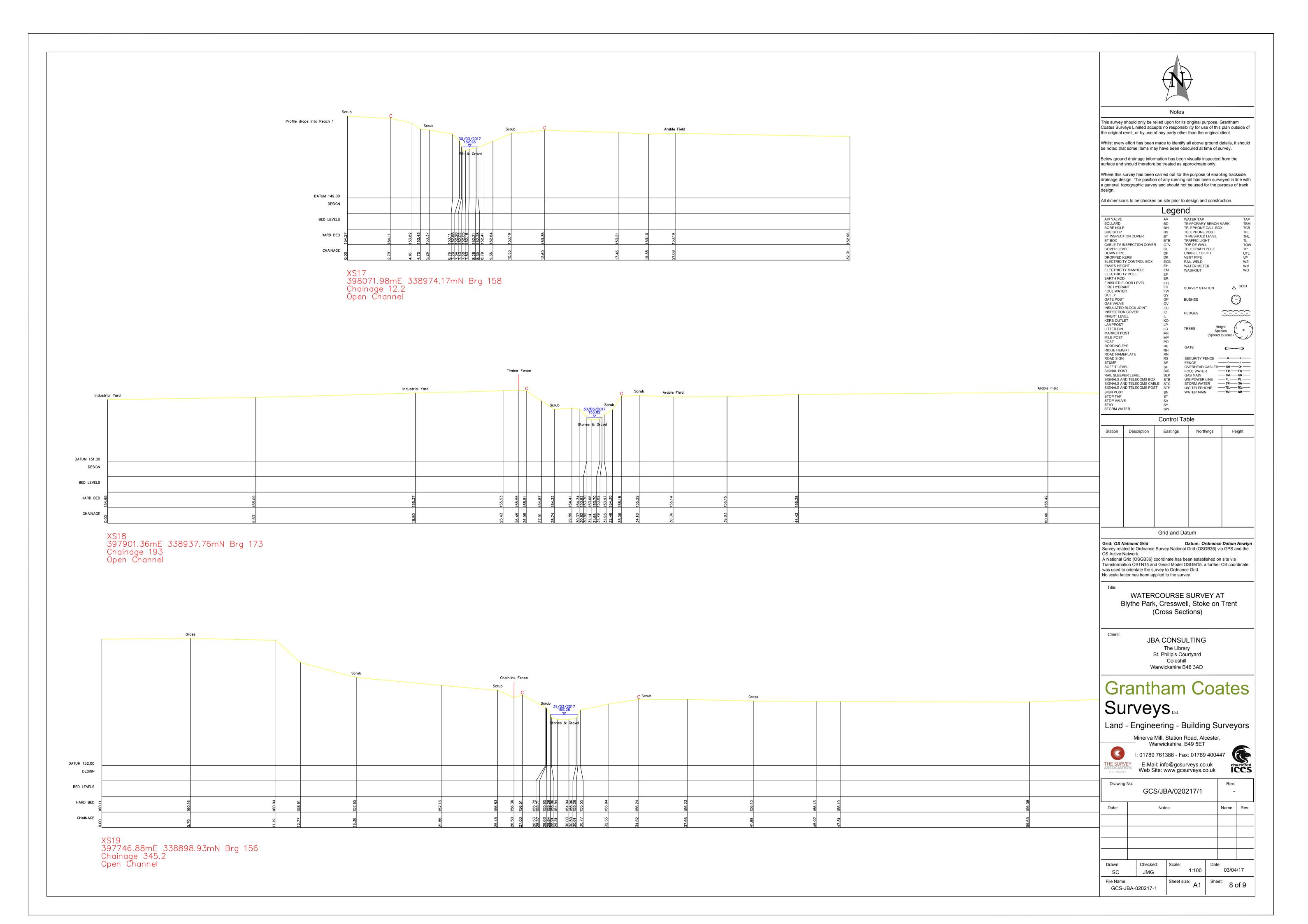
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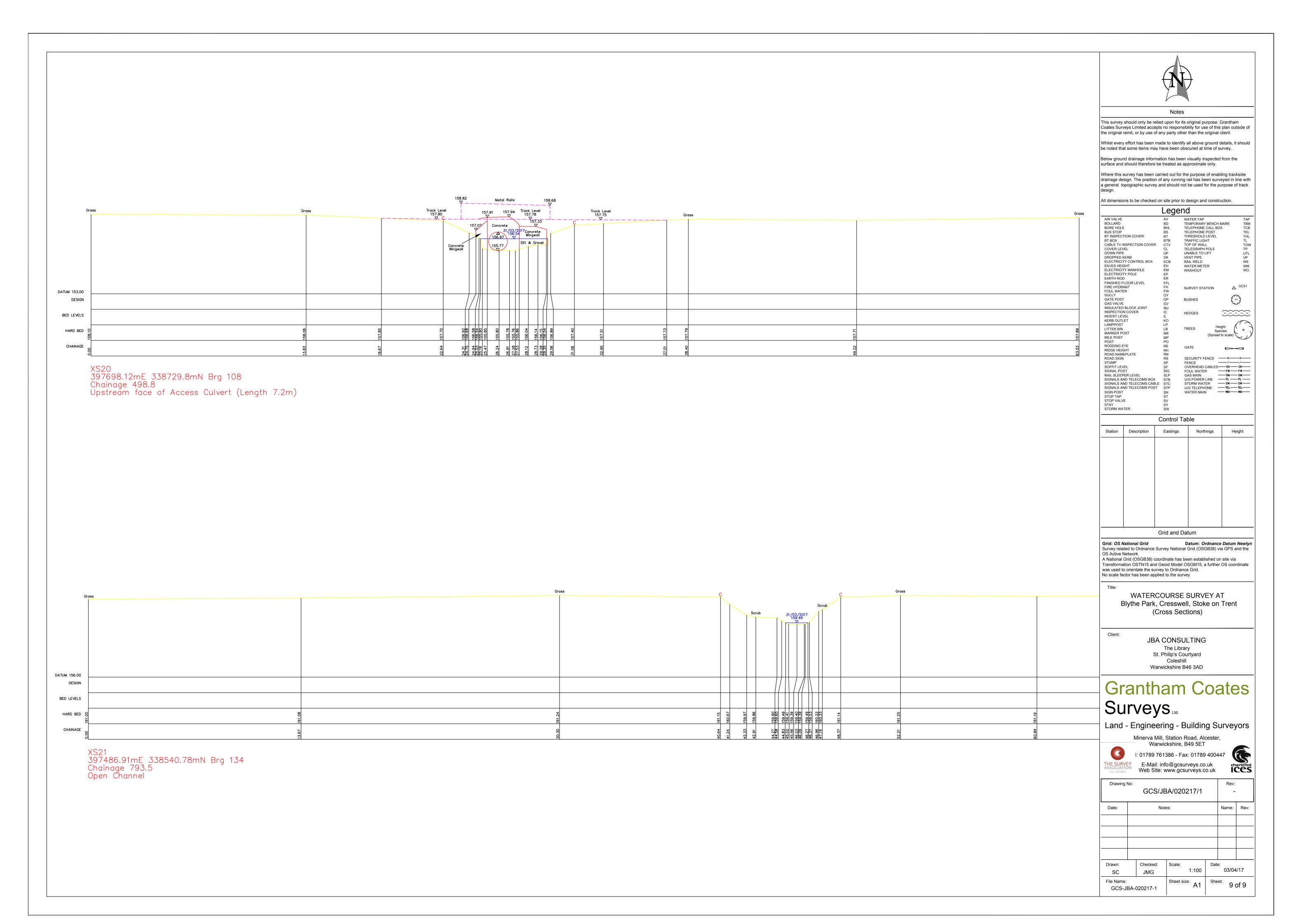
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