

2022 - 24 STANDARD DETAIL DRAWINGS

Economy & Infrastructure Operational Services Highway Flint Street, Fartown Huddersfield, HD1 6LG Head of Highway: Mark Scarr







INTRODUCTION

Our standard detail drawings are based from Volume 4 (Bills of quantities for highway works) of the Manual of Contract. Documents for Highway Works (MCHW) alongside the Design Manual for Roads and Bridges (DMRB). Each series have separate items with drawing numbers which contain sizes – alongside relevant information in which relates to the specific design.

Standard details should only be referenced from the scheme construction drawings rather than being recreated within the scheme drawings themselves.

The Standard details drawings are copyright of Kirklees Council and shall not be changed in any way without prior approval of the Overseeing Organisations.

Any variations to the Standard detail drawings shall be approved by the Overseeing Organisation before construction.

The use of these standards allow consistent, safe and acceptable design and implementation with any work done. The use of recycled materials is encouraged and shall be approved by the Overseeing Organisation.





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| SERIES | DRAWING NUMBER | TITLE |
|--------|-------------------|---------------------------------|
| 300 | HD/SD/03/01B | HEDGES |
| | /02B | STOCKPROOFING |
| | /03B | CHAIN LINK FENCE |
| | /04B | ANTI-INTRUDER CHAIN LINK FENCE |
| | /05B | CLEFT CHESTNUT PALE FENCE |
| | /06B | WIRE MESH NETTING FENCE |
| | /08B | CLOSE BOARDED FENCE |
| | /09B | WODDEN PALISADE FENCE |
| | /10B | WOVEN WOOD FENCE |
| | /11B | ONE RAIL FENCE |
| | /12B | TEMPORARY FENCE TYPE 1 & 2 |
| | /13B | TEMPORARY FENCE TYPE 3 & 4 |
| | /14B | TIMBER PEDESTRIAN GUARDRAIL |
| 400 | HD/SD/04/01B | ADJUSTABLE PEDESTRIAN GUARDRAIL |
| | /02B | ADJUSTABLE PEDESTRIAN GUARDRAIL |
| | /03B | ADJUSTABLE PEDESTRIAN GUARDRAIL |
| | /04B | ADJUSTABLE PEDESTRIAN GUARDRAIL |
| | /05B | ADJUSTABLE PEDESTRIAN GUARDRAIL |
| | /06В | PEDESTRIAN GUARDRAIL |
| | /07В | PEDESTRIAN BARRIER SYSTEM |
| | /08B | 50mm DIAMETER HANDRAIL |

| SERIES | DRAWING NUMBER | TITLE |
|--------|-------------------|------------------------------------------------------|
| 500 | HD/SD/05/01B | SERVICE DUCT |
| | /02B | TRANSITION DETAIL FOR CHANGE IN DUCT LEVEL |
| | /03B | CONNECTION TO EXISTING DRAIN GULLY CONNECTION |
| | /04B | COMBINED DRAINAGE AND KERB BLOCKS |
| | /05B | COMBINED DRAINAGE AND KERB BLOCKS |
| | /06B | COMBINED DRAINAGE AND KERB BLOCKS |
| | /07В | COMBINED DRAINAGE AND KERB BLOCKS |
| | /08B | COMBINED DRAINAGE AND KERB BLOCKS |
| | /09B | COMBINED DRAINAGE AND KERB BLOCKS |
| | /10B | COMBINED DRAINAGE AND KERB BLOCKS |
| | /11C | MANHOLES (PRECAST CONCRETE) DESIGN GROUP 1, 2 & 3 |
| | /12B | MANHOLES (BRICKWORK) DESIGN GROUP 1, 2 & 3 |

| SERIES | DRAWING NUMBER | TITLE |
|--------|-------------------|------------------------------------------------------------------|
| 500 | HD/SD/13B | INSPECTION CHAMBER |
| | /14B | CATCHPIT PERMITTED DESIGN GROUP 1 |
| | /15B | CATCHPIT PERMITTED DESIGN GROUP 2 (BRICKWORK) |
| | /16B | CATCHPIT PERMITTED DESIGN GROUP 2 (PRECAST CONCRETE) |
| | /17B | CATCHPIT PERMITTED DESIGN GROUP 3 |
| | /18B | SOAKWAY |
| | /19B | CONNECTION IN MAHOLES |
| | /20B | GULLIES PERMITTED DESIGN GROUP 1 |
| | /21B | GULLIES PERMITTED DESIGN GROUP 2 |
| | /22B | GULLIES PERMITTED DESIGN GROUP 3 & 4 |
| 700 | UD/SD/07/18 | DETAIL OF JOINT AT JUNCTION OF NEW |
| 700 | HD/3D/07/1B | AND EXISTING CONSTRUCTION |
| | /02B | TRENCH REINSTATEMENTS |
| | /03C | PAVEMENT AND FOOTWAY CONSTRUCTION |
| | /05B | BLACKTOP ROAD HUMP |
| | /06B | BLACKTOP CUSHIONS |
| | /07B | MINI ROUNDABOUT |
| | /08B | BLACKTOP ROAD PLATEAU |
| | /09B | ROAD HUMPS AND THERMOPLASTIC SPEED HUMPS (THUMPS) |
| | S38 HIGHW | VAY PAVEMENT CONSTRUCTION |
| | /10A | INDUSTRIAL/COMMERCIAL ROAD [TYPE CB] WITH SEGREGATED CYCLEWAY |

| SERIES | DRAWING NUMBER | TITLE |
|--------|-------------------|---------------------------------------------------------------------------|
| | S38 HIGHW | VAY PAVEMENT CONSTRUCTION |
| 700 | /11A | RESIDENTIAL CONNECTEOR STREET [TYPE A] WITH VERGE |
| | /12A | LOCAL RESIDENTIAL STREET/TRADITIONAL ESTATE ROAD [TYPE B] WITH FOOTWAY |
| | /13A | SHARED SURFACE STREET/MEWS COURT [TYPE C] (BLOCK PAVED) |
| | /14A | SHARED SURFACE STREET/MEWS COURT [TYPE C] (ASPHALT PAVED) |
| | /15A | JUNCTION/PAVEMENT AND KERB LAYOUT WITH TIE-IN PLAN DETAIL |
| | /16A | HARD MARGIN DETAIL CROSS SECTION A - A |
| | /17A | RAMP DETAIL CROSS SECTION B - B |
| | /18A | CARRIAGEWAY TIE-IN SECTION C - C |
| | /19A | FOOTWAY TIE-IN DETAIL SECTION D - D |
| 1000 | HD/SD/10/1B | BUS BAY AND LAY-BY DETAILS |
| | /02B | BUS BAYS |
| | /03B | LAY-BYS |
| | /04B | COMBINED LAY-BY AND BUS BAY |
| | /05B | CONTRACTION JOINT DETAIL |
| | /06B | EXPANSION JOINT DETAIL |

| SERIES | DRAWING NUMBER | TITLE |
|--------|-------------------|------------------------------------------------|
| 1100 | HD/SD/11/01B | KERBS 01 |
| | /02B | KERBS 02 |
| | /03B | KERBS 03 |
| | /04B | KERBS 04 |
| | /05B | CHANNELS AND EDGING |
| | /06B | KERB TYPE PC &VC |
| | /07B | DROPPED CROSSING- RADIUS CROSSING TYPE PC |
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| | /10B | SETT PAVED AREAS (TYPICAL APPLICATION) |
| | /110 | TEXTURED FOOTWAY SURFACES AT |
| | /116 | UNCONTROLLED PEDESTRIAN CROSSING |
| | /12C | PEDESTRIAN REFUGE DETAILS |
| | /13B | PRE-FORMED REFUGE ISLAND |
| | /1/1 | PEDESTRIAN CROSSING POINT |
| | / 140 | (SIGNAL CONTROLLED) TACTILE LAYOUT |
| | /15B | STAGGERED PEDESTRIAN REFUGE DETAIL |
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| | /108 | AT UNCONTROLLED CROSSINGS |
| | /170 | STANDARD LAYOUT FOR RAISED KERBS- |
| | /1/6 | GUIDED AND NON-GUIDED BUS STOPS |
| 1200 | HD/SD/12/01B | BOLLARDS |
| | /02B | BOLLARD- BELL BOLLARDS |
| | /03B | SHEFFIELD PARKING STAND TYPE 1, 2, 1/S AND 2/S |
| | /04B | SIGNPOST DETAIL |
| | /05B | MARKER BEACON & BELISHA BEACON |
| | /06B | COMBINED BELISHA / ZEBRA LANTERN COLUMN |
| | /07B | TRAFFIC SIGNS: ILLUMINATION (STUB POST) |

| SERIES | DRAWING NUMBER | TITLE |
|--------|-------------------|-----------------------------------------------------|
| 1200 | HD/SD/12/07B | TRAFFIC SIGNS: ILLUMINATION (STUB POST) |
| | /08B | TRAFFIC SIGNS: CIRCULAR MS POSTS |
| | /09B | SIGN ATTACHMENT BRACKET FOR TRAFFIC SIGNAL POLES |
| | /10B | SCHOOL CROSSING PATROL WARNING LIGHT |
| | /11B | OFFSET SIGN POLES DETAILS |
| | /12B | H-BRACKETS |
| | /13B | ROAD MARKINGS- RUMBLE STRIPS |
| | /14B | ROAD MARKINGS- GATEWAY DETAIL (DRAGON TEETH) |
| | /15B | ROADWORK INFORMATION SIGN (SIGN FOR PEDESTRIAN) |
| | /16B | ADVANCED SCHEME INFORMATION SIGN |
| 1300 | HD/SD/13/01B | LIGHTING COLUMNS 5 & 6m |
| | /02B | LIGHTING COLUMN 8, 10 & 12m |
| | /03B | 10m & 12m TWIN ARM LIGHTING COLUMNS |
| | /04B | FEEDER PILLARS TYPE 1, 2 & 3 |
| | /05B | FEEDER PILLAR EQUIPMENT LAYOUT TYPE 1 & 2 |
| | /06B | FEEDER PILLAR EQUIPMENT LAYOUT TYPE 3 & 4 |
| | /07В | TRAFFIC SIGNAL POLE RETENTION SOCKET |
| | /08B | OVERHEAD LINE LAYOUT |

| SERIES | DRAWING NUMBER | TITLE |
|--------|-------------------|-------------------------------------------------------------------------------------------------------|
| 1300 | HD/SD/13/09B | TYPICAL BASE COMPARTMENT ELECTRICAL ARRANGEMENT INCLUDING CONNECTION DETAILS OF LOOP SUPPLY |
| | /10B | BASE WIRING TO LIGHTING COLUMN OR SIGN POST WITH ELECTRICITY COMPANY PME SUPPLY |
| | /11B | STREET LIGHTING COLUMN FOUNDATION |
| | /12A | 5m FOREST COLUMN |
| 1400 | HD/SD/14/01B | UNDERGROUND SERVICE CABLE TERMINATION TYPES |
| | /02В | CABLE TERMINATION (Y.E. SUPPY) WITH OUTGOING U/G COUNCIL CABLES |
| | /03B | TRENCH FOR CABLES / DUCTS LAID DIRECT IN GROUND |
| | /04B | FEEDER PILLARS TYPE 1, 2 & 3 |
| | /05B | FEEDER PILLAR EQUIPMENT LAYOUT TYPE 1 & 2 |
| | /06B | FEEDER PILLAR EQUIPMENT LAYOUT TYPE 3 & 4 |
| | /07B | TRAFFIC SIGNAL POLE RETENTION SOCKET |
| | /08B | OVERHEAD LINE LAYOUT |
| | /09B | EARTH ELECTRODE |
| | /108 | |
| | /11B | FEEDER PILLAR EQUIPMENT LAYOUT UNMETERED TYPE (TRAFFIC SIGNALS) |
| | /12B | FEEDER PILLAR LAYOUT TYPE WITH METER (TRAFFIC SIGNALS) |
| | /13B | TYPICAL FEEDER PILLAR ARRANGEMENT INCLUDING CONNECTION DETAILS FOR OUT GOING LOW VOLTAGE SUPPLY |

| SERIES | DRAWING NUMBER | TITLE |
|--------|-------------------|-------------------------------------------------------------------------------------------------------|
| 1400 | HD/SD/14/14B | CABLE TERMINATION HOUSING LAYOUT |
| | /15B | STREET LIGHTING INVENTORY |
| | /16B | CONTROLLER BASE INSTALLATION DETAIL |
| | /17B | TYPES OF PAVEMENT BOXES |
| | /18B | PAVEMENT INSPECTION BOX TYPES PB1 & PB2 AND INDUCTION LOOP DUCT INSTALLATION TYPES ILD1 & ILD1B |
| | /19B | SLOT |
| | /20B | MODULAR ACCESS CHAMBER |
| | /21B | ADAPTIVE TRAFFIC SIGNAL CONTROLLER BASE |
| 2400 | HD/SD/24/01B | NON-RETAINING BRICK BOUNDARY WALLS |
| | /02B | NON-RETAINING BOUNDARY STONE WALLS |
| | /03B | DRY STONE STYLE RETAINING WALL RECONSTRUCTION (1.35m RETAINED HEIGHT) |
| 3000 | HD/SD/30/1B | STANDARD TREE WITH DOUBLE STAKE AND GRILLE |
| | /02B | STANDARD TREE WITH UNDERGROUND GUYING SYSTEM |
| | /03B | STANDARD TREE WITH ROOT BARRIER AND GUYING SYSTEM |
| | /04B | STANDARD TREE WITH ROOT BARRIER, GUYING SYSTEMS AND CELLULAR ROOT PROTECTION MODULE SYSTEM |
| | /05B | STANDARD TREE WITH SHALLOW CELLULAR ROOT PROTECTION SYSTEM |
| | /06B | STANDARD TREE WITH SINGLE STAKE AND TIES AND IRRIGATION SYSTEM |



| MAIN | FENCE | 1BW | 2BW | 3BW | 1PW | 2PW | 3PW | 1BW 1PW | 1BW 2PW | 2BW 1PW | SPN OR CWM OR NW | | | | | | | | | | | | | | |
|---------------------------------------------------------|---------------------------------------------|----------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------|----------------------------|-------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|--|--|--|------------------------------------------------------------------------------------|--|--|--|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|--|--------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------|
| TYPE | TYPE OF POSTS | ONE STRAND BARBED WIRE | TWO STRANDS BARBED WIRE | THREE STRANDS BARBED WIRE | ONE STRAND PLAIN WIRE | TWO STRANE PLAIN WIRE | DS THREE STRANDS PLAIN WIRE | ONE STRAND BARBED AND ONE STRAND PLAIN WIRE | ONE STRAND BARBED AND TWO STRANDS PLAIN WIRE | TWO STRANDS BARBED AND ONE STRAND PLAIN WIRE | STOCKPROOF NETTING CHICKEN WIRE MESH OR NETTING WIRE. | | | | | | | | | | | | | | |
| RAIL | TIMBER | STAPLED TO TOP OF EACH POST | STAPLED TO EACH POST AND ONE BETWEEN BOTTOM TWO RAILS. | STAPLED TO EACH POST ONE STRAND AT TOP, ONE BETWEEN BOTTOM TWO RAILS AND ONE BELOW BOTTOM RAIL. | | AS FOR BARBED WIRE | | AS FOR BARBED WIRE TWO RAILS. AS FOR BARBED WIRE AT TWO RAILS. | | | | AS FOR BARBED WIRE TOP. WIRE BETWEEN BOTTOM TWO RAILS. STAPLED TO EACH POST BARBED WIRE AT TOP. TOP. TOP. TOP. TOP. TOP. TOP. TOP | | | | AS FOR BARBED WIRE TO EACH PURE AT TOP, PLAIN WIRE BETWEEN BOTTOM RAIL BOTTOM RAIL | | | | AS FOR BARBED WIRE TWO RAILS. STAPLED TO BACH POST, BOTTOM RAIL. STAPLED TO EACH POST, BARBED WIRE AT TOP, ONE WIRE AT TOP, ONE WIRE AT TOP, ONE WIRE BETWEEN BOTTOM TWO RAILS AND ONE BELOW BOTTOM TWO RAILS AND ONE BELOW BOTTOM RAIL. | | | | STAPLED TO EACH POST PLAIN WIRE AT TOP, ONE BARBED WIRE BETWEEN BOTTOM TWO RAILS, AND ONE BELOW BOTTOM RAIL. | STAPLED AT TOP, BOTTOM AND MIDDLE TO EACH POST OR TO EACH RAIL AT EACH POST, POSITIONED IMMEDIATE ABOVE GROUND. |
| MILD STEEL O IRON BAR | R WROUGH1 | r | | | | N/A | | | | | FIXED TO EACH POST AT TOP, BOTTTOM AND MID HEIGHT BY 2.50mm GALVANISED WIRE TO BS. 4102 TRIPLE TWISTED. | | | | | | | | | | | | | | |
| | TIMBER | STAPLED TO TOP OF EACH POST | STAPLED TO EACH POST ONE STRAND AT TOP AND ONE AT MID HEIGHT | STAPLED TO EACH POST ONE STRAND AT TOP,ONE AT ONE THIRD AND ONE AT TWO THIRDS HEIGHT. | | | | N/A | | | STAPLED TO TOP, BOTTOM AND MIDDLE TO EACH POST POSITION IMMEDIATELY ABOV GROUND | | | | | | | | | | | | | | |
| WIRE MESH NETTING AND STRAINED WIRE | CONCRETE MILD STEEL | POSITIONED AS FOR TIM ACCORDANCE WITH BS I | BER POSTS BUT FAST EN 1722. PART 2. | rened in | | | | N/A | | | FIXED TO EACH POST AT TOP, BOTTOM AND MID HEIGHT TO WOVEN WIRE BY 2.50mm GALVANISED WIRE TO BS. 4102 TRIPLE TWISTED. | | | | | | | | | | | | | | |
| | TIMBER | STAPLED TO TOP OF EACH POST | | | STAPLED AT MID HEIGHT OF FENCE TO EACH POST & TO EVERY SIXTH BOARD. | | | BARBED WIRE STAPLED TO TOP OF EACH POST, PLAIN WIRE STAPLED TO EVERY SIXTH BOARD/PALISADE AT MID HEIGHT. | | | | | | | | | | | | | | | | | |
| CLOSE BOARDED AND WOODEN PALISADE | CONCRETE | EXTENSION ARMS TO PC FIXED AT 150mm CENTRE | I DSTS TO BE PROVIDED S ABOVE BOARD PAL |) AND BARBED WIRE ISADES | STAPLED AT MID HEIGHT OF FENCE TO EVERY SIXTH BOARD. | IID BA NCE ON TH N/A | | BARBED WIRE FIXED AS FOR ONE STRAND BARBED WIRE BARBED WIRE FIXED TWO STRANDS PLAIN WIRE AS ABOVE. N/A | | BARBED WIRE FIXED AS FOR TWO STRANDS OF BARBED WIRE PLAIN WIRE FIXED AS FOR ONE STRAND PLAIN WIRE. | ON WOODEN PALISADE FENCES ONLY FIXED AT TOP, BOTTOM AND MID HEIGHT BY STAPLING TO PALISADES AT 1.5m CENTRES | | | | | | | | | | | | | | |
| CHAIN LINK | CONCRETE OR TIMBER | TOP LINE WIRE DOUBLED ONE WIRE IN FRONT OR THREADED THROUGH THE FENCING, AND ONE BEHINE THE BARBS NOT THREADED | EXTENSION ARMS TOP POSTS TO BE IN ACCORDANCE W CLAUSE 6.7 | TO POSTS OR CRANKED PROVIDED, FIXING /ITH BS EN1722. PART 1 | | | | STOCKF | PROOFING MATERIA | ALS | | | | | | | | | | | | | | | |
| | | POSTS TO BE PROVIDED | WITH HEIGHT INCRE/ | ASED BY 150mm | | | BARBED WIRE (BW) | PLAIN WIRE (PW) | STOCKPROOF NETTING | G CHICKEN WIRE MESH | NETTING WIRE | | | | | | | | | | | | | | |
| CLEFT CHESTNUT PALE | CONCRETE OR TIMBER | BARBED WIRE TO BE FIXED AS LINE WIRES 150mm ABOVE PALES. STAPLED TO TOP OF | ONE WIRE 150mm ABOVE PALES, ONE AT MID HEIGHT OF PALES. | ONE WIRE 150mm ABOVE PALES, ONE AT ONE THIRD AND ONE AT TWO THIRDS HEIGHT OF PALES. | | BARBE | | PLAIN WIRE SHALL BE MILD STEEL 3.15mm DIA HIGH TENSI E | 100mm MESH 14 WIRE DESIG. (BS.EN10223.2) WITH CENTRE STRAND AND 3PLY SELVEDGE (BS.EN10223.2) MADE FROM MILD STEFL WIRE TO BS 1052 & | 25mm MESH 19 WIRE DESIG. (BS. EN10223.2) MADE FROM MILL STEFL WIRE TO BS 1052 | 50mm MESH 17 WIRE DESIG. D (BS.EN10223.2) MADE FROM MIL | | | | | | | | | | | | | | |
| WOVEN WOOD | TIMBER | EACH POST. | STS TO BE PROVIDED |) AND BARBED ING. | SPECIFICA | TION BS 410 | TEEL GRADE SPECIFIED IN 2 : 1998 GALVANISED. | SPECIFIED IN BS 4102 : 1998 GALVANISED | GALVANISED TO BS EN 10244 - 2001 900mm WIDE. | AND GALVANISED TO BS EN 10244 - 2001 900mm WIDE. | GALVANISED TO BS EN 10244 - 2001 900mm WIDE. | | | | | | | | | | | | | | |
| NOTES STAPLING TO B STOCKPROOFII PROVISIONS OF | NE 38mm x 4m NG SHALL BE F BS EN 1722 | ATTI GALVANISED STAPLES. E FIXED IN THE POSITIONS AN WHERE APPROPRIATE UNLE | D MANNER SHOWN A SS OTHERWISE DIREC | BOVE AND IN ACCORDANCE V CTED BY THE ENGINEER. Project | | DAR | D DET/ | AILS | · | Scale | NOT TO SCA | | | | | | | | | | | | | | |
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Highway Design Flint Street, Fartown Huddersfield, HD1 6LG

STOCKPROOFING

Drawing No. HD/SD/03/02B

| END STRAINING POST | | INTERMEDIATE POST | | | | | STRAINING POST | | | | | |
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| Billing of the state of the sta | ETCHER BAR SECURED AT EACH STRAINING POST. TIMBER) POSTS TO BE SECURED TO EACH CLEAT BY ONE ME BONTO POST AT A POINT WITHIN TOP THIRD "STILLINGTH AROVE GROUND. TIMBER) POSTS 40 x 40 x 6mm MS ANGLE CLEATS H SECURED TO POST BY EVEDULT. | DIA BOLT. CONCRETE TO TO LINE ED TO LINE BY STAPLE ED TO LINE BY STAPLE TE (TMBER) BY STAPLE TO LINE BY STAPLE TO LINE BY STAPLE TO LINE BY STAPLE TO LINE BY STAPLE TO LINE BY STAPLE TO LINE DIA STAPLE TO LINE DIA DIA DIA DIA DIA DIA DIA DIA | PLASTIC COATED (4mm N + 400 OID PLASTIC COA N + 00 OID PLASTIC COA S ON OTHER WIRES STR AND SECURED TO THEN STS SHALL BE PROVIDED STS SHALL BE PROVIDED THEN THE POLE DEPTH ALLOW Farm THICKNES THE POLE DEPTH THE POLE DEPTH | TED WIRE (3.55mm DIA. GALVANISED) LINE W | WRE. SALVANISED) Omm MILD STEEL AR OF IS. ONCRETE TO HA OLE DEPTH. HOU LZE 450 x 300mm. | L) DOUCARTE (TIMBER) POO 40 × 6mm AldGE 415 S6mm LONG HSECURED TO T BY EVEROLT. HSH upp T X SOLAR UP HSH upp T X SOLAR UP T X SOLAR UP T X SOLAR UP T X SOL | | | IS. 259mm x M10 D/A. EVEROLT STRAME NUT, RING NUT AN UT, RING NUT AN OCONCRETE TO HAI CONCRETE TO HAI DEPTH. HOLE SIZE —450 x 450mm. | HREADED RSFITTED WITH D 2 WASHERS. | | |
| NOTES | | CHAIN LINK FENCES | | POST LENG | GTH | GENERAL CHARAC | CTERISTICS OF FEND | DE TYPES | SECTION | | | |
| FENCING SHALL BE IN ACCORDANCE WITH B.S EN1722 PART 1 AND 1 HEIGHT OF FENCE ABOVE GROUND IS NOMINAL AND SHALL BE VAR A SATEGEYOTDAY USETION ALI GAMENT | HE SPECIFICATION. ED TO ACHIEVE | | HEIGHT OF No. OF FENCING LINE | All and | 2 6 | | TIMBER | 1001 | | CONCRETE | | WIDTH OF |
| 3. GROUND SHALL BE TRIMMED WHERE NECESSARY FOR BOTTOM OF | FENCE. | BER POSTS. (HEIGHT) GCLF/T | POSTS WIRES | Withing Classific | Flan | INTERMEDIATE | STRAINING | STRUTS | * INTERMEDIATE | STRAINING | STRUTS | ROLL |
| POSTS ON LANDOWNERS SIDE OF FENCE. TIMBER INTERMEDIATE POSTS ON FENCES NOT EXCEEDING 1.40m I DRIVENT TO PEPTIS SHOWN TO PEPTIS SHOWN | IIGH TO BE WITH COM | NCRETE POSTS. (HEIGHT) GCLF/C | m | m m | m | mm | mm | mm | mm | mm | mm | m |
| 6. CONCRETE BACKFILLING SHALL BE OMITTED FOR TIMBER POSTS. | | | 0.90 2 | 1.60 1.60 | 1.50 | 75 x 75 75 x 75 | 100 x 100 100 x 100 | 75 x 50 75 x 50 | 100 x 100 125 x 125 | 125 x 125 125 x 125 | 100 x 75 100 x 75 | 0.09 |
| TOPS OF POSTS SHALL BE ROUNDED OR PYRAMIDAL RIDGED OR CI STRAINING POSTS SHALL BE PROVIDED AT ENDS (SINGLE STRUTTE | AMFERED 25mm. PLASTIC WITH TIME D) AND AT INTERVALS | UCATED CHAIN LINK BER POSTS. (HEIGHT) PCLF/T | 1.40 3 | 2.07 2.07 | 1.98 | 75 x 100 | 100 x 100 | 75 x 100 | 125 x 125 | 125 x 125 | 100 x 75 | 1.40 |
| NOT EXCEEDING 60m AND AT ALL CORNERS AND CHANGES OF DIRE 15° VERTICALLY AND/OR 30° HORIZONTALLY. (ALL DOUBLE STRUTTI | CTION EXCEEDING ED.) WITH CON | NCRETE POSTS. (HEIGHT) PCI F/C | 1.80 3 | 2.63 2.63 CONCRETE CONCRE 2.67 2.67 | 2.59 CONCRETE 2.60 | 100 x 125 | 125 x 125 | 75 x 100 | 125 x 125 | 125 x 125 | 100 x 85 | 1.80 |
| THE HEAVEST PATTERN QUOTED FOR THE SPECIFIED IN TABLE 1 O IS ALWAYS TO BE USED. ALL WIPES SMALL BE TO B 5 4/02 PLASTIC CONTED WIPES TO BE 6 | R TABLE 2 OF BS EN 1722 PART 1 | | | TIMBER TIMBEF | R TIMBER | | | | | | | |
| 10. ALL WINES STALL DE 10 BUSHIG, FLASTIN CONTED MINES TO DE G | NADE A. | | * TAPERING TO | 75 x 75 AT TOP. | | | | | | | | |
| | Project | | | | | | | | Scale | 9 | | |
| Kickloog | | | · エ ヘ ม | C | | | | | | | NO | T TO SCALE |
| | 51A | NDARD DE | IAI | -2 | | | | | Draw | n AKKV | | Checked |
| Commercial Regulatory and Operational | Title | | | | | | | | Secti | on | | Date |
| Service | | | | | | | | | | НD | | DEC 21 |
| Highway Design Flint Street, Fartown Huddersfield, HD1 6LG | | N LINK FENCE | | | | | | | Drawi | ng No. | HD, | /SD/03/03B |

| ST | RAINING POST INTERMEDIATE POST | STRAINING POST | INTERMEDIATE POST |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------|
| | 3 x 2.5mm GALVANISED MILD STEEL WIRE TO BS 4102 WITH 4 POINT BARBS AT 75mm CENTRES, EACH WIRE TO BE STRAINED; ONE 25 x 4.75mm DROPPER TO BE FITTED AT THE CENTRE OF EACH BAY. | | |
| | | - 415 | Ĩ. |
| | 4 No. 4 75mm OID LINE WIRES | I. I. | T. |
| 250mm x M10 DIA | AT EACH STRAINING POST. TO BE SECURED TO EACH 76 x 50 x 6.3mm CLEAT BY ONE MB DIA. BOLT. | | |
| INREADU EYEBON STRAINERS FITTED WITH 2 NUTS AND 2 WASHERS | THREADED THROUGH THE APPROPRIATE ROW OF MESHES. | | |
| | 50mm MESH WOVEN 4.75mm OID PLASTIC COATED WRE, SECURED TO LINE WIRE AT 150mm CENTRES ON TOP AND BOTTOM WIRES. | | |
| | AND 450mm CENTRES ON OTHER WIRES STRAINED BETWEEN EACH PAIR OF STRAINING POSTS. | | |
| | 100 x 100 x 3.25m CONCRETE | ••• | ·•• |
| | 150 x 150 CONCRETE POST WITHIN TO THING OF STRAINING POST LENGTH. STRAINING POST LENGTH. STRAINING POST LENGTH. STRAINING POST LENGTH. | | |
| | 10 APER DUNIN 10 457 150 x 85 | | |
| 75 | | | |
| 1 | | | |
| MIX ST 2 CONCRETE TO HALF | | | |
| 450 x 450 (MN.) | 460 CONCRETE TO HALF HOLE DEPTH HOLE SIZE 600 x 300 (MIN.) | (MIN.) | |
| | | | |
| | | | |
| | | SECTI | |
| | I YPICAL ELEVATION | 3EU III | |
| | | | |
| | | | |
| GENERAL REQUIRE | EMENTS 3E IN ACCORDANCE WITH BS EN 1722 PART 10. | | |
| GENERAL REQUIRE 1. FENCING SHALL I 2. HEIGHT OF FENC | EMENTS BE IN ACCORDANCE WITH BS EN 1722 PART 10. E ABOVE GROUND IS NOMINAL AND SHALL BE VARIED TO ACHIEVE A | ANTI-INTRUDER CHAIN LINK FE | NCE |
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| | | 4 No. 2.36mm WIRES TO B.S.4102 TWIS BETWEEN PALES ONE LINE OF WIRING EVERY PALE BY ONE 19mm x 2mm STA | TED TOGETHER S SECURED TO PLE. | | | | | | | | | | | | | | | | | |
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| ETE DUCT STRAINERS FROM 250mm LONG WID DIA. THREADED AND FITTED WITH TWO NUTS AND WASHERS TO CONCRETE END STRAINING POSTS. | STRAINING | 75mm | | | | | | INTERM PO | IEDIATE IST | | | | | | | | | | | |
| CONCRETE END STRAINING POSTS WITH Hum DIA HOLES FOR BE BOOM OF HUM AND A HOLES FOR BE BOOM AND A HOLES FOR AND A HOLES FOR BE BOOM AND A HOLES FOR AND A HOLES FOR BE BOOM AND A HOLES FOR | | MIX ST 2 CONCRETE TO HALF HOLE DEPTH, MINIMUM HOLE SIZE 0.3m x 0.3m. | Lugro CONCO (WEDEIN 75mm Jan | HALF ROU SWEET CH GIRTH AT , LESS THA AT , STUB POIN STUB POIN STU | ID OR TRIANG STIUT PALE NY POINT NO TED AT TOP. ALL 2 CONCRETE OLE DEPTH, IM HOLE SIZE 0.30m. EVATION | ULARS. T T | | | | ONCRETE Somm DIAH WOODEN IN THER NATI | 0 0000 BUT 012000 SEE 1491E | WS 57 1 50 NNO 30 ST F POST T. TOST F ITTEE TIRRUP WIE TIRRUP WIE TO CLEFT | 2.50 / 3. COATEL SECURE WITH 3: ADE THE AND AND A SOMM X TIMBER APPERING T D WITH RES. HALL BE T.) | 55 GRADE PL D WIRE TO B. ED TO LINE Y COMPLETE TH H SIDE OF C H SIDE OF C S55mm DIA. INTERMEDIA INTERMEDIA | ASTIC | | | _ | | |
| | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | STANE | DARD FEN | ICE DIM | ENSION | S | | | | | | | | |
| | | CLEFT CHESTNUT | | | | | CONC | STANE RETE PC | DARD FEN | ICE DIM | ENSION | S | | TIME | BER POS | STS | | | | |
| GENERAL REQUIREMENTS 1. FENCING SHALL BE IN ACCORDANCE WITH BS EN17 THE SPECIFICATION. | 22 PART 4 AND | CLEFT CHESTNUT PALE FENCE | HEIGHT No OF LII FENCING C | OF SPACING ES BETWEE | | TERMEDIA | | STANE RETE PO STRA | DARD FEN DSTS | | ENSION: | S IN | ITERMEDIA | TIME | SER POS | | STI | RUTS | | |
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| END STR/ | RAINING POST | | INTERMEDIATE POST | | | | | |
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| | 30mm x 6mm OR 10mm STRETCHER BAR | 2.5mm WIRES TO B.S. | .4102. | .15mm WIRE TO B.S.4102. | | | | |
| 250 x M10 THREADED EVE BOLT OR 250 x M0 THREADED HOOK BOL STRAINERS FITTED WITH NUTS AND WASHER. (NNEWHOLATE STRAINING POSTS.) | SECORED TO EACH EVE ON HOUR BOLT. | ST HERE MIX ST2 TO HALF HOLE DEPTH SIZE 450mm x 300mm MIN. | | TOP. BOTTOL TOP. BOTTOL BE STAPLED TO TIMERE WIRE TO B.S SECURED TO NITERMEDIA 3 COMPLETE EACH SIDEC NITERMEDIA 1.15mm WIRE TO B.S.4102. | M AND ONE TE WIRE TO 38mm x 4mm TTERMEDIATE m M.S. STIRRUP 4102 0 ONE 7 OP, 0 ONE TE WIRE WITH TURNS ON F CONCRETE TE POSTS. | -77,857 | | |
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| | | AL ELEVATION | | | | | | |
| NOTES | | | STA | NDARD FENCE DIMENS | IONS | | | |
| NOTES 1. FENCING SHALL BE IN ACCORDANCE WITH B.S.1722 PART 2 AND THE SPEC | | | STA POST LENGTH | NDARD FENCE DIMENS | IONS POST SE | CTION | CONCRETE | |
| NOTES 1. FENCING SHALL BE IN ACCORDANCE WITH B.S.1722 PART 2 AND THE SPEC 2. HEIGHT OF FENCE ABOVE GROUND IS NOMINAL AND SHALL BE VARIED TO SATISFACTORY VERTICAL ALIGNMENT. | WOVEN WIRE FENCE | HEIGHT HORIZONTAL WIRES OF FENCING AT POST No. SPACING FROM TOP WIRE INTERMEDIA | STA POST LENGTH TE STRAINING STRUTS | NDARD FENCE DIMENS | IONS POST SE I) STRUTS | | CONCRETE E STRAINING | STRUTS |
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| | TWICE WEATHERED CAPPING 65mm x 38mm SECTION, SKEW NAILED TO POSTS AND COUNTER RAIL WITH 8.65mm x 3mm NAILS | | | | 65mm x 25mm COUNTER RAIL SKEW - NAILED TO POST WTH TWO 65mm x 3mm NAILS | | | | | | | |
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| | | 1 | PPICAL ELEVATION (TIMBER POSTS AN | GRAVEL BOAF | RD) | | | | | | | |
| NOTES | | | CLOSE BOARDED FENCE | UFFORE OF | RD) | ST | TANDARD FENCE D | DIMENSIONS POST LENGTH | | POST | SECTION | |
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| NOTES 1. FENCI 2. HEIGH A SATI 3. GROUT 4. POSTS | NG SHALL BE IN ACCORDANCE WITH BS I IT OF FENCE ABOVE GROUND IS NOMINA ISFACTORY, VERTICAL ALIGNMENT. IND SHALL BE TRIMMED WHERE NECESS/ S AND RAILS SHALL BE CHAMFERED AS N | I EN 1722 PART 5 AND THE SPECIFICATION. L AND SHALL BE VARIED TO ACHIEVE ARY FOR BOTTOM OF FENCE. ECESSARY AT CHANGES IN DIRECTION | CLOSE BOARDED FENCE WITH CONCRETE POSTS | HEIGHT OF FENCING AT POSTS m 1.00 | RD) RA NUMBER 2 | ST AILS TRIANGULAR SECTION mm 75 x 75 75 x 75 | TANDARD FENCE D TIMBER m 1.67 | DIMENSIONS POST LENGTH CONCRETE (RECESSED) m 1.525 1.705 | CONCRETE (MORTICED) m 1.65 | POST TIMBER mm 100 x 100 100 | *SECTION CONCRETE mm 140 x 115 | |
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| 100mm | 75mm x 20mm PALISADES POINTED, SQU, 75mm CUT TO SWEEP TOPS. ALTERNATIVELY 6 WITH 65mm GAPS BETWEEN PALISADES | ARE CUT OR 55mm x 20mm MAY BE USED | T IN A | RIANGULAR RAILS | WITH ENDS SHAI POSTS. THE TOP NE 12mm DIA. WO | PED TO MAKE A D RAIL ONLY IS TO DODEN PEG TO TII | DRIVEN FIT BE SECURED MBER POSTS | LONG TIMBER POSTS | |
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| | | | | | | | | | CHAMFER 25mm |
| | | _°°°° | | | | |][| | |
| SEE TABLE | | | | | | | PALISADES OMITTED FOR CLARITY | | |
| | | | | | CENTRE STUMP, ON TOP TO FIT UI BOTTOM RAIL ANI THERETO WITH O 65mm x 3.35mm N. | SPLAY CUT NDER D NAILED NE AIL | | CENTRE STUMP FIXING | 65mm x 25mm MORTICE (RAIL OMITTED FOR CLARITY) |
| | RETE MIX ST2 TO HALF OF HOLE + 50mm HOLE 00mm x 300mm | | | , , , | | | | | |
| | 3.0 C/C MAXIMUM | | | | 3.0 C/C MAXIM | IUM | | | |
| | TYPICAL ELEVATION (TIMBEF | R POSTS) | | | | | | | |
| | | | | | | | | | |
| NOTES | WOODEN PALISADE FENCE | | | STANDA | RD FENCE D | IMENSIONS | | | |
| NOTES 1. FENCING SHALL BE IN ACCORDANCE WITH BS EN 1722 PART 5 A THE SPECIFICATION | WOODEN PALISADE FENCE | HEIGHT | | STANDA | RD FENCE D | DIMENSIONS | | POST SECTION | |
| NOTES FENCING SHALL BE IN ACCORDANCE WITH BS EN 1722 PART 5 A THE SPECIFICATION HEIGHT OF FENCE ABOVE GROUND IS NOMINAL AND SHALL BE VARIED TO ACHIEVE A SATISFACTORY VERTICAL ALIGNMENT COLUMN SUM UPE TIMMED INVERTICAL ALIGNMENT | WOODEN PALISADE FENCE ND WITH CONCRETE POSTS (HEIGHT) WPF/C | HEIGHT TO TOP OF PALES N | D. TRIANG | STANDA RAIL | RD FENCE D | OF POST CONCRETE | TIMBEF | POST SECTION R CONI (REC | CRETE * XESSED) |
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| NOTES 1. FENCING SHALL BE IN ACCORDANCE WITH BS EN 1722 PART 5 A THE SPECIFICATION 2. HEIGHT OF FENCE ABOVE GROUND IS NOMINAL AND SHALL BE VARIED TO ACHIEVE A SATISFACTORY VERTICAL ALIGNMENT 3. GROUND SHALL BE TRIMMED WHERE NECESSARY FOR BOTTON 4. POSTS AND RAILS SHALL BE PURPOSE CUT AND MORTICED TO CHANGES IN DIRECTION 5. POSTS SHALL BE ON LANDOWNERS SIDE OF FENCELINE 6. CONCRETE BACKFILLING SHALL BE OMITTED FOR TIMBER POST NOT EXCEEDING 10° HIGH | WOODEN PALISADE FENCE ND WITH CONCRETE POSTS (HEIGHT) WPF/C M OF FENCE FACILITATE WITH TIMBER POSTS (HEIGHT) WPF/T IS ON FENCES | HEIGHT TO TOP OF PALES N m 1.00 2 1.20 2 |). TRIANGI n 75 75 | STANDA Rall ULAR SECTION - nm : ix 75 : ix 75 : | RD FENCE D | OF POST CONCRETE m 1.525 1.725 | TIMBEF mm 125 x 100 125 x 100 | POST SECTION R CONIC (REC min 0 140 x 140 x | CRETE * (ESSED) m 115 115 |
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| NOTES 1. FENCING SHALL BE IN ACCORDANCE WITH BS EN 1722 PART 5 A THE SPECIFICATION 2. HEIGHT OF FENCE ABOVE GROUND IS NOMINAL AND SHALL BE VARIED TO ACHIEVE A SATISFACTORY VERTICAL ALIGNMENT 3. GROUND SHALL BE TRIMMED WHERE NECESSARY FOR BOTTON 4. POSTS AND RAILS SHALL BE PURPOSE CUT AND MORTICED TO CHANGES IN DIRECTION 5. POSTS SHALL BE ON LANDOWNERS SIDE OF FENCELINE 6. CONCRETE BACKFILLING SHALL BE OMITTED FOR TIMBER POST IN EXCEEDING 10' HIGH 7. TOPS OF POSTS SHALL BE ROUNDED OR PRISMOIDAL, RIDGED CHAMFRED 1 INCH (25mm) | WOODEN PALISADE FENCE ND WITH CONCRETE POSTS (HEIGHT) WPF/C OF FENCE FACILITATE WITH TIMBER POSTS (HEIGHT) WPF/T S ON FENCES OR | HEIGHT TO TOP OF PALES N m 1.00 2 1.20 2 1.40 3 1.60 3 3 |). TRIANGI n 75 75 75 75 | STANDA Rail ULAR SECTION | RD FENCE D .s LENGTH TIMBER m 1.60 1.80 2.00 2.45 | OF POST CONCRETE m 1.525 1.725 1.925 2.275 | TIMBEF mm 125 x 100 125 x 100 125 x 100 125 x 100 | POST SECTION R CONIC (REC min min 0 140 x 0 140 x 0 140 x 0 140 x | CRETE * ZESSED) m 115 115 115 115 |
| FENCING SHALL BE IN ACCORDANCE WITH BS EN 1722 PART 5 A THE SPECIFICATION HEIGHT OF FENCE ABOVE GROUND IS NOMINAL AND SHALL BE VARIED TO ACHIEVE A SATISFACTORY VERTICAL ALIGNMENT GROUND SHALL BE TRIMMED WHERE NECESSARY FOR BOTTOM POSTS AND RAILS SHALL BE PURPOSE CUT AND MORTICED TO CHANGES IN DIRECTION POSTS SHALL BE ON LANDOWNERS SIDE OF FENCELINE CONCRETE BACKFILLING SHALL BE OMITTED FOR TIMBER POST NOT EXCEEDING 10° HIGH TOPS OF POSTS SHALL BE ROUNDED OR PRISMOIDAL, RIDGED CHAMFRED 1 INCH (25mm) | WOODEN PALISADE FENCE ND WITH CONCRETE POSTS (HEIGHT) WPF/C MOF FENCE FACILITATE WITH TIMBER POSTS (HEIGHT) WPF/T TS ON FENCES OR | HEIGHT TO TOP OF PALES N m 1.00 2 1.20 2 1.40 3 1.60 3 1.80 3 | D. TRIANGI n 75 75 75 75 75 87 | STANDA RAIL ULAR SECTION - nm - ix 75 - | RD FENCE D .s TIMBER 0 1.60 0 1.80 0 2.00 0 2.45 0 2.65 0 | DIMENSIONS OF POST CONCRETE m 1.525 1.725 1.925 2.275 2.475 | TIMBEF mm 125 x 100 125 x 100 125 x 100 125 x 100 125 x 100 150 x 100 | POST SECTION R CON(REC mm 140 x 0 140 x | CRETE * SESSED) m 115 115 115 115 115 |
| NOTES 1. FENCING SHALL BE IN ACCORDANCE WITH BS EN 1722 PART 5 A THE SPECIFICATION 2. HEIGHT OF FENCE ABOVE GROUND IS NOMINAL AND SHALL BE VARIED TO ACHIEVE A SATISFACTORY VERTICAL ALIGNMENT 3. GROUND SHALL BE TRIMMED WHERE NECESSARY FOR BOTTON 4. POSTS AND RAILS SHALL BE PURPOSE CUT AND MORTICED TO CHANGES IN DIRECTION 5. POSTS SHALL BE ON LANDOWNERS SIDE OF FENCELINE 6. CONCRETE BACKFILLING SHALL BE OMITTED FOR TIMBER POST NOT EXCEEDING 10' HIGH 7. TOPS OF POSTS SHALL BE ROUNDED OR PRISMOIDAL, RIDGED CHAMFRED 1 INCH (25mm) | WOODEN PALISADE FENCE ND WITH CONCRETE POSTS (HEIGHT) WPF/C OF FENCE FACILITATE WITH TIMBER POSTS (HEIGHT) WPF/T SON FENCES OR Project | HEIGHT TO TOP OF PALES N m 1 1.00 2 1.40 3 1.60 3 1.80 3 * TAPERING TO 100m | D. TRIANGI n 75 75 75 75 87 n x 115mm | STANDA Rail ULAR SECTION | RD FENCE D .s LENGTH TIMBER m 1.60 2.00 2.45 2.65 | OF POST CONCRETE m 1.525 1.725 1.925 2.275 2.475 | TIMBEF mm 125 x 100 125 x 100 125 x 100 125 x 100 125 x 100 | POST SECTION R CONIC (REC mil mil 0 140 x | CRETE * ZESSED) m 115 115 115 115 115 |
| NOTES 1. FENCING SHALL BE IN ACCORDANCE WITH BS EN 1722 PART 5 A 1. HEIGHT OF FENCE ABOVE GROUND IS NOMINAL AND SHALL BE VARIED TO ACHIEVE A SATISFACTORY VERICAL ALIGNMENT 2. GROUND SHALL BE TRIMMED WHERE NECESSARY FOR BOTTOR 3. GROUND SHALL BE TRIMMED WHERE NECESSARY FOR BOTTOR 4. POSTS AND RAILS SHALL BE PURPOSE CUT AND MORTICED TO CHANGES IN DIRECTION 5. POSTS SHALL BE ON LANDOWNERS SIDE OF FENCELINE 6. CONCRETE BACKFILLING SHALL BE OMITTED FOR TIMBER POST NOT EXCEEDING 10° HIGH 7. TOPS OF POSTS SHALL BE ROUNDED OR PRISMOIDAL, RIDGED CHAMFRED 1 INCH (25mm) | WOODEN PALISADE FENCE ND WITH CONCRETE POSTS (HEIGHT) WPF/C OF FENCE FACILITATE WITH TIMBER POSTS (HEIGHT) WPF/T TS ON FENCES OR Project | HEIGHT TO TOP OF PALES N m 1.00 2 1.20 2 1.40 3 1.60 3 1.80 3 * TAPERING TO 100m 3 3 3 | D. TRIANG n 75 75 75 75 75 87 n x 115mm | STANDA Rall ULAR SECTION mm ix 75 ix 87 | RD FENCE D .s LENGTH | DIMENSIONS OF POST CONCRETE m 1.525 1.725 1.925 2.275 2.475 | TIMBEF mm 125 x 100 125 x 100 125 x 100 125 x 100 150 x 100 | POST SECTION R CONV (REC mm 0 0 140 x | CRETE * SESSED) m 115 115 115 115 115 115 115 |
| NOTES 1. FENCING SHALL BE IN ACCORDANCE WITH BS EN 1722 PART 5 A THE SPECIFICATION 2. DECIFICATION 3. GROUND SHALL BE TRIMMED WHERE NECESSARY FOR BOTTOM 4. POSTS AND PAILS SHALL BE PURPOSE CUT AND MORTICED TO CHANGES IN DIRECTION 5. POSTS SHALL BE ON LANDOWNERS SIDE OF FENCELINE 6. CONCRETE BACKFILLING SHALL BE COMITTED FOR TIMBER POST NOT EXCEEDING 10' HIGH 7. TOPS OF POSTS SHALL BE ROUNDED OR PRISMOIDAL, RIDGED CHAMFRED 1 INCH (25mm) | WOODEN PALISADE FENCE NND (THE CONCRETE POSTS (THEIGHT) WPF/C NOF FENCE FACILITATE WITH TIMBER POSTS (THEIGHT) WPF/T TS ON FENCES OR Project STANDARD | HEIGHT TO TOP OF PALES N m 1 1.00 2 1.20 2 1.40 2 1.60 3 1.80 3 * TAPERING TO 100m | D. TRIANG 1 75 75 75 75 87 n x 115mm ILS | STANDA Rall ULAR SECTION Imm ix 75 ix 87 | RD FENCE D .s ILENGTH 1.60 1.80 2.00 2.45 2.65 | DIMENSIONS OF POST CONCRETE m 1.525 1.725 1.925 2.275 2.475 | TIMBEF mm 125 x 100 125 x 100 125 x 100 125 x 100 150 x 100 | POST SECTION R CON(REC 0 140 x Drawn AKKV | CRETE * SESSED) m 115 115 115 115 115 115 115 |
| <section-header><section-header><list-item><list-item><list-item><list-item></list-item></list-item></list-item></list-item></section-header></section-header> | WOODEN PALISADE FENCE WUTH CONCRETE POSTS (HEIGHT) WPF/C OF FENCE FACILITATE WITH TIMBER POSTS (HEIGHT) WPF/T TS ON FENCES OR Project Title | HEIGHT TO TOP OF PALES N m 1 1.00 2 1.40 2 1.40 3 1.60 3 1.80 3 * TAPERING TO 100m | D. TRIANGI | STANDA Rall ULAR SECTION nm ix 75 | RD FENCE D .s ILENGTH 11MBER 1.60 2.00 2.45 2.65 | DIMENSIONS OF POST CONCRETE m 1.525 1.725 1.925 2.275 2.475 | TIMBEF mm 125 x 100 125 x 100 125 x 100 125 x 100 150 x 100 | POST SECTION R CONC (REC 0 140 x Scale Drawn AKKV Section HD HD | CRETE * JESSED) mm 115 115 115 115 115 115 115 NOT TO SCALE Checked Date DEC 21 |

| WEATHERED CAP 100mm x 100mm x 32mm TO TIMBER POSTS | 63mm x 2.5mm NAILS SECURING PANELS TO 19mm x 50mm (POST DRIVEN THROUGH VERTICAL BATTENS AT SECURED TO T TOP AND BOTTOM AND 600mm INTERMEDIATE SCREWS OR N | CAPPING WEATHERED AT TOP TOP HORIZONTAL BATTENS BY IAILS AT 450mm CENTRES | DOUBLE HORIZONTAL BATTENS 10mm x 38mm SECTION TOP AND BOTTOM | | |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|---------------------|
| | | | | ~ | |
| WOODEN POST 75mm x 75mm OR CONCRETE POST 100mm x 85mm | | | VERTICAL SLATS 75mm x 5mm SECT 4 No. VERTICAL SLATS TO EACH 1.8r | | |
| 19mm x 38mm DOUBLE VERTICAL BATTE NS 법 문 문 법 방 | | | WOVEN BY PASSING INSIDE AND OU ALTERNATIVE HORIZONTAL SLATS | ISIDE | |
| | | | HORIZONTAL SLATS 75mm x 5mm SE FITTED CLOSELY TO FILL PANEL, NA STAPLED TO VERTICAL BATTENS, FI NAILED OR SCREWED TOGETHER A AFTER SLATS FITTED | CTION ILED OR RAMES T 300mm | 705 |
| ц | 1.8 MAXIMUM PANEL LENGTH | | | | |
| | DOUBLE VERTICAL CENTRE STIFFENERS OF 19mm x 38mm SECTION | MIX ST 2 CONCRETE 1 HOLE SIZE + OR 0.3m IN D | TO HALF HOLE DEPTH, 50mm 0.3m SQUARE JAMETER (MIN.) | | |
| <u>େ</u> | | | | | |
| NOTES | WOVEN WOOD FENC | E | | | |
| FENCING TO BE IN ACCORDANCE WITH BS EN 1722 PART 11 AN ALL NAILS TO BE 63mm x 2.65mm | D THE SPECIFICATION. | | STANDARD FENCE DIMEN | SIONS | |
| FENCES OF HEIGHT EXCEEDING 1.5m ARE TO BE STRUTTED A TO LINE OF FENCE. TO ALTERNATIVE POSTS AT 2/3 HEIGHT, ST TO HORIZONTAL, STRUTS SET INTO GROUND 450mm DEEP, IN MIX ST2 TO HALF HOLE DEPTH, HOLE SIZE TO ALLOW 75mm TH CONCRETE ROUND STRUTS | RIGHT ANGLES RUTINØAT 45 JONCRETE ICKNESS | | HEIGHT OF FENCE LENGTH OF POS m m 0.6 1.2 | T HEIGHT OF PANEL m 0.55 | |
| HEIGHT OF FENCE ABOVE GROUND IS NOMINAL AND SHALL BE TO ACHIEVE A SATISFACTORY VERTICAL ALIGNMENT | VARIED | | 1.2 1.8 | 1.15 | |
| 4. GROUND SHALL BE TRIMMED WHERE NECESSARY FOR BOTTO | M OF FENCE WITH CONCRETE POSTS | | 1.5 2.1 1.8 2.5 | 1.45 1.75 | |
| 5. POSIS AND PANELS SHALL BE CHAMPERED AS NECESSARY A IN DIRECTION | HEIGHT WWF/C | | | Scale | |
| S Kirklees | STANDARD D | DETAILS | | Drawn | TO SCALE Checked |
| Commercial Regulatory and Operational | | | | Section | Date |
| Service Highway Design | | NCE | | HD Drawing No | DEC 21 |
| Flint Street, Fartown Huddersfield, HD1 6LG | | | | HU/SU | / US/ INR |

| NOTES | | | STIFFENING PANEL | | | | | |
|-----------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|---------------------------------------|-------------------|----------------|--|--|--|
| | INTERMEDIATE POST | | | | | | | |
| | | / | ° ° ° | | | | | |
| L20 | 1.013m | 1 No. RAIL 87 x 38 SAWN SOFTWOOD TIMBER 4 x 100 ROUNDWIRE NAILS DRIVEN ON SKEW | - 1.7m TIMBER POST 150 x 75 | MAIN POST | < 75 | | | |
| | | | 300 x 300 x 400 CONCRETE MIX ST -2 | 400 | | | | |
| 75 NOTES | | 1.8m C/C MAX. | 1.2m | | | | | |
| FENCE SHALL BE IN ACCORDANCE WITH BS HEIGHT OF FENCE ABOVE GROUND IS NOMI ALIGNMENT | N1722 PART 7 AND THE SPECIFICATION AL AND SHALL BE VARIED TO ACHIEVE A SAT | TISFACTORY VERTICAL | FENCE - 1 RAIL | | | | | |
| 3. POSTS AND RAILS SHALL BE CHAMFERED A | NECESSARY AT CHANGES IN DIRECTION | | | | | | | |
| 4. POSTS ON OWNER'S SIDE OF FENCELINE | | | | | | | | |
| WHERE APPROVED BY THE ENGINEER TIMB SHOWN USING "ARROW" OR SIMILAR APPRO SHALL NOT EXCEED 225mm | R INTERMEDIATE POSTS MAY BE DRIVEN IN ED EQUIPMENT, IN WHICH CASE THE LENGTI | SUITABLE GROUND TO DEPTHS H OF THE POINT TO THE POST | PAINTED P1RF | | | | | |
| TOPS OF POSTS SHALL BE CHAMFERED 25n MAIN POSTS AND STIFFENING PANEL TO BE EXCEEDING 15° VERTICALLY AND / OR 30° I | n ROVIDED AT ENDS (ONE PANEL) AND AT ALL PRIZONTALLY (ONE PANEL AT EACH SIDE OF | CHANGES OF DIRECTION F MAIN POST) | UNPAINTED 1RF | | | | | |
| 8. DOUBLE POSTS SHALL BE PROVIDED AS RE | UIRED TO FACILITATE FENCING AROUND RAD | DII | | | | | | |
| Kirklops | | | | Scale NOT | TO SCALE | | | |
| | J JIANI | | | Drawn AKKV | Checked | | | |
| ommercial Regulatory and Operation Service Highway Design | | | | Section HD | Date DEC 21 | | | |
| Flint Street, Fartown Huddersfield, HD1 6LG | ONE RAI | IL FENCE | | Drawing No. HD/S[| D/03/11B | | | |





















| Kicklops | | Scale NOT TO SCALE | | |
|--------------------------------------------------|---------------------------|-----------------------|----------------|--|
| | STANDARD DETAILS | Drawn AKKV | Checked | |
| Commercial Regulatory and Operational Service | Title | Section HD | Date DEC 21 | |
| Flint Street, Fartown Huddersfield, HD1 6LG | PEDESTRIAN BARRIER SYSTEM | Drawing No. |)/SD/04/07B | |





NOTES

- 1. FOR GENERAL NOTES REFER TO DRAWING No. H/SD/05/01
- 2. ALL DIMENSIONS IN MILLIMETRES UNLESS SPECIFIED OTHERWISE
- 3. WHERE MORE THAN 4 DUCTS ARE SPECIFIED WITH SUFFIX F, OR P THE DESIGN GROUP SHALL BE AS FOR SD6-SD12 WITH COVER FROM THE TOP OF THE DUCTS TO FORMATION LEVEL/EXISTING GROUND LEVEL, BACKFILL AND REINSTATEMENT AS SHOWN FOR SD1/F, AND SD1/P.
- 4. D DENOTES INTERNAL DUCT DIAMETER.
- 5. WHEN DUCT IS LAID WITHIN RETAINED EXISTING CONSTRUCTIONS DEPTH OF COVER `C' = 500mm.
- 6. FOR CONTRACTS NOT UNDER THE HIGHWAYS AGENCY SPECIFICATION FOR HIGHWAY WORKS CONCRETE REFERENCE C10 SHALL BE USED.
- 7. `E' HAS A MINIMUM DIMENSION OF 300mm AND IS TO BE INCREASED AS NECESSARY TO ENSURE A FINISH DEPTH OF COVER OF 750mm BELOW FINISHED CARRIAGEWAY SURFACE.
- 8. MARKER TAPE WITH LEGEND "ELECTRICITY CABLES". TO BE 150mm WIDTH





COMBINED DRAINAGE AND KERB BLOCKS

GENERAL REQUIREMENTS

- 1. Combined drainage and kerb block (CDKB) systems shall be designed and installed in accordance with the Highways Agency MCDHW Specification Clause 516 and the manufacturer's instructions.
- 2. CDKB systems shall also comply with the following basic design criteria, whether or not these details are refered to in the manufacturer's instructions
- 3. Silt traps are to be provided at 50 metre maximum intervals, and also at the upstream end of sections of base-only units exceeding 10 metres in length and adjacent to all outfalls. Suitable silt traps are those indicated in the Marshall's Beany system literature, or untrapped gully pots with the outfall blocked with an ST2 concrete plug. All silt traps shall have metal access covers.
- 4. Consideration shall be given to relocating silt traps up to 5 metres upstream of outfalls, in order that service vehicles do not block the passage of traffic when cleaning them out.
- 5. An access cover shall be provided to at least one end of every length "base-only" units, e.g. side road bellmouths, drop crossings for accesses or lengths kerbed for other reasons such as raised bus boarders.
- 6. Junctions between lengths of "base-only" CDKB shall not be permitted under carriageway surfacing unless a suitable grating is used.
- 7. To be discussed with a drainage engineer before implementation

NOTES FOR DRAWINGS NUMBERS HD/SD/05/05B -10B

1. Mortars shall be;

i) A Mortar class 12 cement mortar to BS EN 998-2 for bedding the Top Blocks

ii) Marshalls' M-Flex for bedding Base Block Outfalls onto the Beany Trapped Gully Unit
iii) Marshalls' M-Flex for bedding the sections of the Marshalls' Trapped Gully Unit sections
2. Concrete bed, haunch and surround shall be;

i) A mix ST1 concrete to BS 8500-1&2 and BS EN 206-1 for Base Blocks used in the normal kerb application.

ii) A mix ST4 concrete to BS 8500-1&2 and BS EN 206-1 for Base Blocks used within the carriageway (i.e. where Base Block are used with cover plates and are trafficked)
iii) A mix ST4 concrete to BS 8500-1&2 and BS EN 206-1 for Beany Trapped Gully, Silt Traps, Catch Pits and outfall details

iv) The specification for carrier pipe concrete surround is by others

3. Marshalls' vertical joint sealant, M-Seal, shall be applied to all Base Blocks.

4. For Base 630 applications, all Outfalls, Silt Traps and

junctions should be formed by a brick Catch Pit structure;

i) The outfall pipe diameter, gradient, depth to invert, depth of trap shall be by others
 ii) The internal dimensions of the catch pit shall be 540 wide x 1000 long for Base 630 applications

iii) Corbelled brickwork with a maximum of 22mm steps shall be used to support the Access Cover and Frames

5. Beany Block Access Covers and Frames are hinged and handed to the direction of the traffic, specified "nearside" and "offside".

6. Movement joint details that fully isolate the Beany Block whilst maintaining restraint shall

be provided adjacent to all concrete slabs, even when the slab is covered by other materials.

7. Stop End Top Blocks Units are available as left hand (LH) or right hand (RH) for use at transitions to half battered kerbs.

8. For Beany Block with cover plate a minimum of 50mm concrete cover (d) and 100mm of surfacing (D) will be required.

9. All dimensions are in millimetres.

| Kicklops | Project | | Scale NOT TO SCALE | | |
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| COUNCIL | | STANDARD DETAILS | Drawn AKKV/AA | Checked | |
| Commercial Regulatory and Operational Service | Title | | Section HD | Date JAN 22 | |
| Flint Street, Fartown Huddersfield, HD1 6LG | | GENERAL REQUIREMENTS NOTES | Drawing No. HD | /SD/05/04B | |





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JAN 22










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DIMENSION 'R' SHALL BE INCREASED AS NECESSARY

- 2. UNLESS WITH THE PRIOR AGREEMENT OF THE ENGINEER, MANHOLES WILL BE CONSTRUCTED IN PRECAST CONCRETE. FOR MEASUREMENT PURPOSES CONCRETE CONSTRUCTION WILL BE ASSUMED.
- A H/D REDUCING SLAB TO B.S. 5911-3 MAY BE USED IN PLACE OF THE TAPER SUBJECT TO A MINIMUM CHAMBER HEIGHT OF 2000 ABOVE SOFFIT OF OUTLET PIPE.
- 4. ALL PRECAST MANHOLE COMPONENTS SHALL BE FULLY BEDDED ON 'TOKSTRIP' OR EC EQUIVALENT
- CHANNELS MAY BE CONSTRUCTED AS FOR BENCHING, OR OF PRE-FORMED HALF-CIRCLE CHANNELS; BENCHING SHALL BE FORMED OF CONCRETE FINISHED SMOOTH OR WITH A 20 THICK FACING 1:3 CEMENT MORTAR A TOE-HOLD 150W × 150d x 100h SHALL BE PROVIDED IN LINE WITH STEP IRONS/LADDER WHERE OUTLET DIA.>600.
- UNLESS SHOWN OTHERWISE IN THE CONTRACT. THE SOFFITS OF INCOMING PIPES SHALL BE LEVEL WITH THE SOFFIT OF THE OUTLET PIPE. CONNECTIONS 0-45 TO THE MAIN FLOW SHALL BE EXECUTED AS STRAIGHT CHANNELS; CONNECTIONS OVER 45 TO THE MAIN FLOW SHALL BE TURNED BY MEANS OF CHANNEL BENDS.
- STEP IRONS SHALL BE TO B.S.1247, FIGURE 2; LADDERS SHALL COMPLY WITH THE RELEVANT REQUIREMENTS OF
- A REMOVABLE SAFETY CHAIN SHALL BE SECURELY FIXED TO THE BENCHING ACROSS OUTLET PIPES > 600 DIA. CHAINS SHALL BE MILD STEEL 10mm NOMINAL SIZE, SHORT LINK, SMOOTH WELDED CHAIN, COMPLYING WITH B.S.4942; PART 2.
- STEP IRONS, LADDERS, SAFETY CHAINS AND ALL FIXINGS FOR METAL WORK SHALL BE HOT DIP GALVANISED IN ACCORDANCE WITH B S EN ISO 1461 AFTER MANUFACTURE OR FABRICATION
- 10. FOR CONTRACTS NOT UNDER THE HIGHWAY AGENCY SPECIFICATION FOR HIGHWAY WORKS. REFERENCES SHALL BE READ AS :- ST1 = C7.5 ST4 = C20 DESIGNATION (i) = 1 : 0-1/4 : 3 (Cement : Lime : Sand)
- 11. QUICK SETTING MORTAR TO HAVE A MINIMUM CUBE STRENGTH OF 20N/mm2 @ 2 HOURS AND 50N/mm2 @ 28 DAYS
- 13. ALL PCC MANHOLES AND COMPONENTS INCLUDING RC COVER SLABS WITH INTERNAL DIAMETER EXCEEDING 900MM ARE CLASSED AS HIGHWAY STRUCTURES AND AS SUCH THEIR DESIGN IN ADDITION TO THE REQUIREMENT FOR STRICT COMPLIANCE WITH THE DETAILS SHOWN ON THIS DRAWING WILL ALSO BE SUBJECT TO A CERTIFICATION PROCESS IN
- 14. PRECAST CONCRETE MANHOLE SHAFT UNITS, CIRCULAR COVER, REDUCING, LANDING AND CORBEL SLABS TOGETHER WITH ALL OTHER ANCILLARY CONCRETE LINITS INTENDED FOR INSTALLATION IN THE HIGHWAY ARE TO BE DESIGNED AND MARKED WITH "BS EN 1917" & "BS 5911-3" R TO CONFIRM THAT THE PRODUCTS REPRESENT A MANUFACTURE'S DECLARATION THAT THEIR PRODUCTS MEET THE REQUIREMENT OF THESE STANDARDS
- 15. ALL PRECAST CONCRETE UNITS TO HAVE A DESIGN CHEMICAL CLASS OF DC-4 (AS PER BRE SPECIAL DIGEST 1) TO
- 16. ALL RC COVER SLABS SHALL BE INSTALLED WITH A MINIMUM OF 300 MM COVER TO FINISHED LEVELS TO COMPLY WITH

NOT TO SCALE

Checked

Date

FK

Mar 22















| MAIN AND SIDE CHANNELS CUT AWAY AND TRIMMED AS REQUIRED. | 300mm MAXIMUM BENCHING CARRIED UP VERTICALLY TO LEVEL OF TOP OF PIPES AND ALL EXPOSED SURFACES FACED SMOOTH WITH 20mm THICK SAND/CEMENT MORTAR DESIGNATION (i) BRICK 300mm MAXIMUM | DRETE | 11112 | 300mm MAXIMUM | | | |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|------------------|---------------|--|--|--|
| NOTES | | | | | | | |
| CONNECTION 0 - 45⁰ TO MAIN FLOW TO BE EXECUTED AS STRAIGHT CHANNEL. CONNECTION OVER 45⁰ TO MAIN FLOW TO BE EXECUTED AS BEND. ALL CONNECTIONS TO INCLUDE ADDITIONAL TRIMMING OF PIPES AND BENCHING. UNLESS OTHERWISE REQUIRED BY THE CONTRACT SOFFIT OF SIDE CONNECTION (S) TO BE LEVEL WITH SOFFIT TO MAIN INLET PIPE. DESIGNATION (i) = 1 : 0-1/4 : 3(Cement : Lime : Sand) MORTAR SHALL BE USED | | | | | | | |
| FOR MORTAR DESIGNATION - REFER SERIES SHW 2400, TABLE 24/1. | | | | | | | |
| Kirklees | | Sc | cale NOT | TO SCALE | | | |
| COUNCIL | | Dra | AKKV | Спескец | | | |
| Commercial Regulatory and Operational Service | | Se | ection HD | JAN 22 | | | |
| Flint Street, Fartown Huddersfield, HD1 6LG | CONNECTION IN MANHOLES | Dra | rawing No. HD/SE | D/05/19B | | | |









TABLE 1 - PERMANENT TRENCH REINSTATEMENT OUTSIDE LIMIT OF NEW SURFACING

| | | | | COURSE THICKNESS (MIN) FOR REINSTATEMENT | | | | | |
|--|-------------|---------------------------------------------------|-----------------------------------|------------------------------------------|---------|---------|----------|----------|-----------------------|
| | LAYER | PERMITTED MATERIALS | SPEC. CLAUSE | TYPE 1a | TYPE 1 | TYPE 2 | TYPE 3 | TYPE 4 | RIGID |
| | | | | (>30 10 | (>10 10 | (2.5 10 | (0.5 10 | (UP TO | |
| | | | | 125 MSA) | 30 MSA) | TU MSA) | 2.5 MSA) | 0.5 MSA) | |
| | BASE | ROLLED ASPHALT BASE | SHW CLAUSE 904 | 315 | 250 | 185 | 90 | 50 | RACT |
| | (ROAD-BASE) | DENSE BASE | SHW CLAUSE 903 | 315 | 250 | 185 | 90 | 50 | NTF N |
| | | WET LEAN CONCRETE 4 | SHW CLAUSE 1030 | 210* | 210* | 210* | 170 | 150 | U U U U U |
| | | | | | | | | | Ę |
| | SUB BASE | GRANULAR SUB-BASE (TYPE 1) WET LEAN CONCRETE 4 | SHW CLAUSE 803 SHW CLAUSE 1030 | 300 | 280 | 260 | 260** | 300** | AS STATED IN |

- * For roads designed to carry more than 25msa, the binder course materials should be increased by a minimum of 8mm.
- ** Thickness of sub-base to be increased to ensure minimum reinstatement depth of 450mm.

GENERAL NOTES

- Reinstatement of openings in highways shall comply with the 'specification for the reinstatement of openings in highways April 2010' issued by the highways authorities and utilities committee (hauc). The minimum dimension is to be increased as necessary to ensure a finish depth of cover shall be in accordance with Natural Joint Utilities Group publication "Guidelines on the positioning and colour codes and positioning of utilities' Apparatus". Any variation described in appendix 5/2
- 2. The guarantee period shall begin on completion of the permanent reinstatement and shall run for two years, or three years in the case of deep openings.
- The contractor shall be responsible for inspecting and ensuring that the reinstatement complies with the required performance criteria throughout the interim reinstatement and up to the end of the guarantee period. The quality of the reinstatement shall be assessed relative to the adjacent surfaces when determining whether a reinstatement requires any remedial action.
- 4. Reinstatement of service duct suffixed 'E' comprised flexible surfacing only.
- 5. Base and edge preparation shall be in accordance with section s6.5.1 and s6.5.2 of 'NRSWA 1991 specification for the reinstatement of opening in highways. Immediately before bituminous layers are reinstated, edges of existing material shall be cleaned of all loose material and be coated with an appropriate hot bituminous binder or equivalent treatment.
- 6. If any part of the reinstatement is within 250mm of an adjacent patch, ironwork or pavement edge, then the existing surface course needs to be trimmed back to the feature and reinstated as part of the works.
- 7. Where existing road surfaces have been treated or constructed using specialist applied surfacing, the surface shall be permanently reinstated using like materials, or an agreed alternative in accordance with sections s6.4.5.1 to s6.4.5.5 of 'NRSWA 1991 specification for the reinstatement of opening in highways.
- 8. Where the reinstatement falls within carriageway which is to be overlaid, the surface and binder course may be replaced with a single layer of dense material to BS EN 13108
- 9. Where the reinstated surface is to be subsequently excavated or abandoned, the interim reinstatement shall consist of a minimum of 100mm of single course dense surface course on 150mm sub-base.
- 10. Other areas, verges, grassed areas, unpaved footpaths, shall be reinstated to match the the existing surface, after backfilling with acceptable material to a depth not less than 150mm below the finished surface.
- 11. Where p.v.c ducts are provided the whole bedding shall be standard mix ST2 concrete.

| S Kirklees | | Scale NOT TO SCALE | | |
|--------------------------------------------------|-----------------------|-----------------------|----------------|--|
| | STANDARD DETAILS | Drawn AKKV | Checked | |
| Commercial Regulatory and Operational Service | | Section HD | Date JAN 22 | |
| Flint Street, Fartown Huddersfield, HD1 6LG | TRENCH REINSTATEMENTS | Drawing No. HD/S[| D/07/02B | |

TREATMENT OF STATUTORY UNDERTAKER'S APPARATUS

Any Statutory Undertaker's Apparatus that is exposed during excavation of trenches shall be treated in manner described below unless otherwise described in the Contract:

- Exposed services shall received 150mm sand surround
- no service shall be directly encased in concrete

EXISTING SURFACE











3. ALL SIGNS AND ROAD MARKINGS MUST COMPLY WITH THE TRAFFIC SIGNS REGULATIONS AND GENERAL DIRECTIONS 2016.



NOTES

- 1. SAW CUT AND EXCAVATE 30-50MM OF MATERIAL 300-500MM IN WIDTH AROUND THE PERIMETER
- 2. SCARIFY SURFACE WHERE ROUNDABOUT IS TO BE CONSTRUCTED AND APPLY TACK COAT.
- 3. ISLAND SHALL BE CONSTRUCTED IN LAYERS OF AC10 CLOSE SURF 100/150 TO BE LAID IN LAYERS MAX 40MM PER LAYER
- 4. MINI ROUNDABOUTS SHALL HAVE ROAD MARKINGS AS SHOWN ON THE TYPICAL DETAILS, OR AS SHOWN ON THE SCHEME DRAWINGS. ALL ROAD MARKINGS SHALL BE IN WHITE THERMOPLASTIC SCREED WITH APPLIED BALLOTINI.
- 5. MINI ROUNDABOUTS SHALL BE MARKED WITH TEMPORARY MARKINGS IN WHITE SPRAY PAINT IF THEY ARE TO BE TRAFFICKED BEFORE PERMANENT MARKINGS ARE APPLIED, IN AGREEMENT WITH THE ENGINEER.

| | Project | Scale NOT TO SCALE | | |
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| STANDARD DETAILS | | Drawn AKKV/AA | Checked ₽₩ | |
| Commercial Regulatory and Operational Service | Title | Section HD | Date APRIL 21 | |
| Flint Street, Fartown Huddersfield, HD1 6LG | MINI ROUNDABOUT | Drawing No. HD/SD/07/07B | | |

| 0.30m WIDE | E SIDE SLOPE (1:4 RAMP) | |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 3.00m 3.00m 0.20m | KERB LINE | KERB LINE |
| 0.75m DIAG. NO 1004 (100mm WIDE) | CONTINUOUS LINE (100mm WIDE) DIAG. NO 1012.1 EXTENDED 6.0M BEYOND EDGE OF ROAD PLATEAU CONTINUOUS LINE (200mm WIDE) WARNING TRIANGLE DIAG. NO 1062 750mm WIDE LENGTH TO SUIT RAMP LENGTH | 0.75m PLATEAU - LENGTH VARIES (MIN. WIDTH AS:SIDE ROAD TO JUNCTION TANGENT POINTS' MAX 10m) |
| KERB LINE A DETAIL OF FREE DRAINING | S PLATEAU | KERB LINE DIAG. NO 1009 KERB LINE DIAG. NO 1003 (100mm WIDE) B |
| KERB LINE | TOP OF KERB TO BE MINIMUM 5mm ABOVE PLATEAU KERBS TO BE ADJUSTED WHERE NECESSARY | |
| GULLIES TO BE INSTALLED WHERE REQUIRED FOLLOWING A LEVEL SURVEY, GULLY DESIGN GROUP 1 WITH 450MM COVER AND FRAME, 150MM DIA GULLY CONNECTION, DIAG. NO 1004 (100mm WIDE) 0.75m | | DETAIL OF JUNCTION PLATEAU |
| 1.5m 6m (max 10m) | WARNING TRIANGLE DIAG. NO 1062 750mm WIDE LENGTH TO SUIT RAMP LENGTH | 30mm THICK SURFACE COURSE 45mm MAX REGULATING BINDER LAYER (AC 20 dense bin 100/150) 1.500m / 1:20 RAMP PLATEAU - LENGTH VARIES (MIN. WIDTH AS SIDE ROAD TO JUNCTION LONG / 1:15 RAMP FOR |
| A DETAIL OF KERB TO KERB | AC10 CLOSE SURF 100/150 TO BE LAID IN LAYERS MAX 40MM PER LAYER | TANGENT POINTS/ MAX 10.0m) NON-BUSIHGV ROUTE) |
| 75mm High SAW CUT AND EXCAVATE OR PLANE OFF 30-50MM OF MATERIAL 300-500MM IN WIDTH AROUND THE PERIMETER OF THE FEATURE. SECTION A-A | Y EXISTING GEWAY SURFACE AND TACK COAT | TE ROAD PLATEAU WITH 6M TOP TO BE USED WHEN THE MEASURES ARE IMPLEMENTED ON BUS OR HIGH HGV ROUTES ALL DESIGNERS SHOULD REFER TO SCHEME DRAWINDS FOR DRAINAGE AND KERBING REQUIREMENTS. EXISTING CARRIAGEWAY SURFACE AND THIS TO BE SCARIFY AND TACK COATED BEFORE CONSTRUCTION. HEIGHT TOLERANCE TO BE +4- 10mm, EXCEPT AT DIFFICULT SITES, I.E. WITH STEEP CARRIAGEWAY CROSSFALIBARRELLED PROFILES ETC., WHICH SHOULD BE AGREED ON AN INDIVIDUAL BASIS WITH THE CONTRACTOR. ALL ROAD HUMPS (PLATEAU) ARE TO BE SIGNED IN ACCORDANCE WITH THE HIGHWAYS (ROAD HUMPS) REGULATION 1996. |
| Kirklees | Project STANDARD | DETAILS |
| Commercial Regulatory and Operational Service Highway Design Flint Street, Fartown | Title BLACKTOP ROAD | Section Date HD Nov 21 Drawing No. HD/SD/07/08B |
| Huddersfield, HD1 6LG | | |







| | Private lan | nd | | | | | E | xtent of adoptable public highway | | |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------|---------------------------------|------------------------------------|------------------------------|------------------------------------------------------------------------|-------------------|----------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------|--------------------------------------------------------------------|
| | | 2000 | Footwa | ay | | | | 5500 Carriageway | | |
| E1 / 150 | x 50 pcc edging kerb — | kerb 20 Ø x 200 dowel bars K1 / 125 x 255 pcc half battered kerb [HB2] at 450 centres 1:40 | | | | | 1:40 | | | |
| 150 150 150 150 150 150 150 150 | | | | | | NSE SURF 100/150] N 100/150] E/BIN 100/150] 2 & 3 for details | | | | |
| At vehicu to 150 w | foundation concrete lar crossings, increase E vith kerb K15 / 125 x 150 | e or concrete taken do Binder to 60 and increa pcc bullnosed kerb IB | wn to fo ase Sub N31 with | ormation Base [Ty n 30 upsta | pe 1] and | | | Formation level Sub Grade [Natural strata] s | ee note 4 for details | |
| | | | | | | | 1. | Unless stated otherwise all dimensi | ons are in millimetres | |
| PAVEMENT FOUNDATION DES | SIGN LOCAL RESIDENTI | IAL STREET / TRADIT | IONAL E | | ROAD [T | YPE B] | 2. (i) (ii) | For pavement foundation design, th Sub Base only Sub Base and Capping | ere are two options: | |
| CBR | % | < 2.5 | to 3.0 | to t 4.0 5 | o to .0 15. | >15.0 0 | (iii) | See adjacent pavement design table | e for layer thickness. | |
| SUB BASE ONLY | SUB BASE [TYPE 1] D | DEPTH | 450 | 420 37 | 70 33 | 0 280* | 3. | For pavement foundation design the final design surface to the foundation materials shall not be frost suscept | e total pavement cons on, is to be 450mm in ible in accordance wit | truction buildup from depth, such that the MCHW Vol 1 Series |
| OF | 2 | Ground remediation | | o | R | | | 801 Clause 7]. | | |
| | SUB BASE [TYPE 1] DI | EPTH improve sub | 350 | 320 28 | 80* 280 |)* 280* | 4. | All made ground to be removed to a | a depth of 3m. | |
| SUB BASE ON CAPPING | CAPPING DEPTH | grade obit | 250 | 240 23 | 30 21 | 0 150 | 5. | All kerbs to be laid upon 10mm mor | rtar bed. | |
| * Minimum required type | e 1 sub base depth to ac | hieve 450mm of non-fi | rost sus | ceptible i | naterial. | | 6. 7. | All K1 kerbs require dowel bars. For kerb details refer to Kirklees Sta Drawing No. HD / SD / 11 /01A,02A,0 | andard Details)3A,04A,05A. | |
| | Proj | STAN | IDA | RD | DE | ΤΑΙ | LS | | Scale 1: Drawn MWN | 40 Checked JMH |
| Commercial Regulatory and Operational Service Title Highway Design LOCAL RESIDENTIAL STREET / TRADITIONA Flint Street, Fartown ROAD [TYPE B] WITH FOOTWAY | | | | RADITIONAL ESTATE | Section HD Drawing No. | Date MAY 2022 HD-SD-07-12A | | | | |

















GENERAL REQUIREMENTS

All dimensions are in millimeters.

CONCRETE

- 1. Concrete shall comply with the requirements of clauses 1001 - 1005 and shall have a minimum compressive strength at 28 days of 28 N/mm²
- 2. An air entraining agent shall be used in at least the top 50mm of the slab, and the air content shall comply with Clauses 1002 of the Specification.

SLAB THICKNESS AND REINFORCEMENT

| TRAFFIC CATEGORY (MILLIONS OF STANDARD AXLES) | EQUIVALENT BUS SERVICE FREQUENCY | SLAB THICKNESS | REINFORCEMENT (STANDARD LONG MESH) | MAX. JOINT SPACIN (NON STANDARD BAYS) |
|-------------------------------------------------------|------------------------------------------------------|-------------------|--------------------------------------------|-----------------------------------------------|
| < 0.4msa | < 4 PER HOUR (eg INTER-URBAN ROUTES) | 150mm | 2.61kg/m ² | 16.5m |
| 0.4 TO 4.5msa | 4 OR MORE PER HOUR (eg PRIMARY URBAN ROUTES) | 200mm | 3.41kg/m ² | 21.0m |

Kerbina

Concrete

slab

Project

REINFORCEMENT

- 1. Reinforcement shall comply with the requirements of clause 1008
- 2. All reinforced fabric shall overlap one complete mesh in all directions

JOINTS

- 1. The location and type of joint shall be as shown on bus bay and lay-by layouts
- 2. Joints shall be constructed as hcd series c drawings except that

(i) Expansion joint

(a) Dowel bar shall be 20mm dia. 600mm long (b) Filler board shall be 14mm thick

(ii) Contraction joint (a) Dowel bar shall be 20mm dia. 600mm long



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| | | Drawn AKKV | Checked | |
| Commercial Regulatory and Operational Service | | Section HD | Date JAN 22 | |
| HIGNWAY DESIGN Flint Street, Fartown Huddersfield, HD1 6I G | BUS BAY AND LAY-BY DE FAILS | Drawing No. HD/S | D/10/01B | |

TYPICAL CROSS SECTION OF BUS BAY OR LAY-BY









550

650

20

25

190 >240

240 AND OVER

GENERAL REQUIREMENTS

- 1. DOWEL BARS TO BE GRADE 250 STEEL COMPLYING WITH BS EN 13877-3.
- 2. THE DETAIL APPLIES FOR AN UN-REINFORCED SLAB WITH THE REINFORCEMENT OMITTED.
- 3. THE CRACK INDUCER IS TO BE OMITTED FROM THE JOINTS WITH SAWN GROOVES
- 4. THE COMBINED DEPTH OF THE CRACK INDUCER FILLET AND SURFACE GROOVE SHALL BE BETWEEN ONE QUARTER AND ONE THIRD OF THE SLAB DEPTH. IN SLABS OF GRAVEL AGGREGATE, SAWN GROOVES ARE NOT PERMITTED.
- 5. IN REINFORCED SLABS OF THICKNESS 165mm OR LESS DOWEL BARS ARE TO BE 85mm DEEP.
- 6. PREFORMED COMPRESSION SEALS USED IN LIEU OF THE SEALANT AND CAULKING SHOWN EXTEND TO THE DEPTH REQUIRED IN ACCORDANCE WITH CLAUSE 1016.

| S Kirklees | Project | Scale NOT TO SCALE | | |
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| | STANDARD DETAILS | Drawn | Checked | |
| Commercial Regulatory and Operational Service | | Section HD | Date JAN 22 | |
| HIGNWAY DESIGN Flint Street, Fartown Huddersfield, HD1 6LG | CONTRACTION JOINT DETAIL | Drawing No. HD/SI | D/10/05B | |

400

400






























































| SPEED LIMIT SIGN EDGE OF CARRINGERWAY IDD IDD IDD IDD IDD IDD IDD IDD IDD I | | | | | |
|----------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------|-------|------------------------------------------------------|--|--|
| S Kirklees | Project STANDARD DETAILS | 6 | Scale NOT TO SCALE Drawn AKKV PW | | |
| Commercial Regulatory and Operational Service Highway Design Flint Street, Fartown Huddersfield, HD1 6LG | Title ROAD MARKINGS - GATEWAY DE (DRAGONS TEETH) | ETAIL | Section HDDate APRIL 22Drawing No.HD/SD/12/14B | | |



Sorry for any inconvenience

Sign ReferenceHD/SD/12/19ALetter colourWhiteBackgroundRedBorderWhitex-height37.5

Sign FaceWidth890mmHeight790mmArea0.68sq.m

Note:

- Details shown shall be varied as appropriate. Each line of legend may have a different size of lettering which shall be smaller than the emergency telephone number.
- 2. The bottom panel may be omitted.

Nature of roadworks, giving names of employer and contractor, emergency telephone number, and apology for inconvenience

(Sign for pedestrian)

| G Kickloop | | Scale NOT TO SCALE | |
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| | STANDARD DETAILS | Drawn AKKV | Checked |
| Commercial Regulatory and Operational Service | atory and Operational ervice ay Design eet, Fartown ield, HD1 6LG Title ROADWORK INFORMATION SIGN (Sign for Pedestrian) | Section HD | Date APRIL 21 |
| HignWay Design Flint Street, Fartown Huddersfield, HD1 6LG | | Drawing No. HD/S | 5D/12/15B |

| S Kirklees | Streetscene and Housing 01484 414700 | | | | |
|------------------------------------------------------------------------------------|--------------------------------------------|------|--|--|--|
| Highway Improvement Works starts here 24 August for 3 weeks | | | | | |
| Delays possible | | | | | |
| Letter colour : BLACK Background : YELLOW Border: BLACK x-height : 50 MIN | | | | | |
| S Kirklees | STANDARD DE | TAIL | | | |

Note:

- 1. The 'Streetscene and Housing 01484 414700' details may be substituted for ' Highways Customer Care 0800 731 8765'.
- 2. The type of work 'Highway Improvement Works' may be varied to non-scheme specific type of work as follows
 - Car Park Improvements
 - Road Surfacing
 - Road Safety Improvements
 - Junction Improvements
 - Bridge Repairs
 - Bus Journey Improvements
 - Pavement Improvements
 - Drainage Improvements
 - Wall Repairs
 - Improving Your Surroundings
 - Work to help Reduce Congestion
 - This road will be closed (ROAD CLOSURE)
- 3. The date and duration of the work may be varied
- 4. "until" and a date may be substitute for "for 3 weeks"

| S Kirklees | | Scale NOT TO SCALE | |
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| | STANDARD DETAILS | Drawn AKKV | Checked |
| Commercial Regulatory and Operational Service | Title ADVANCED SCHEME INFORMATION SIGN | Section HD | Date APRIL 21 |
| Flint Street, Fartown Huddersfield, HD1 6LG | | Drawing No. HD/SD/12/16B | |






| | | NOTES 1. VICTORIAN STYLE LANTERN WITH POLYCARBONATE ONE PIECE GLAZING SEALED TO IP66. 2. OPTICAL COMPARTMENT WITH HIGH PERFORMANCE REFLECTOR AND REFRACTOR SUITABLE FOR LED FITTING. 3. GALVANISED STEEL COLUMN WITH CAST IRON DECORATOR (OPTIONAL) 3. PAINTED OR POWDER COATED BLACK' FINISH (CONSERVATION AREA) | | |
|----------------------------------------------------------------------------------------------------------------------|--------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------|------------------------------|
| | | | Scalo | |
| S Kirklees | Project STANDARD | DETAILS | Drawn | T TO SCALE Checked YA |
| Commercial Regulatory and Operational Service Highway Design Flint Street, Fartown Huddersfield, HD1 6LG | Title LIGHTING COLUMN | | Section HD Drawing No. HD/S | Date APRIL 22 D/13/04B |











| Twin and earth PVC cable to lantern. Electricity Company cut-out incorporating double pole isolator and sub fuse. | | nm ² flexible earthing conductor column earth terminal. nm ² flexible earthing conductor door earth terminal. arth Marshalling block |
|---------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Electricity Company – incoming cable (pme). | | |
| S Kirklees | Project STANDARD DETAILS | Scale NOT TO SCALE Drawn Checked AKKV/AA PF |
| Commercial Regulatory and Operational Service Highway Design Flint Street, Fartown Huddersfield, HD1 6LG | Title BASE WIRING TO LIGHTING COLUMN OR SIGN POST WITH ELECTRICITY COMPANY PME SUPPLY | SectionDateHDAPRIL 21Drawing No.HD/SD/13/10B |











Huddersfield, HD1 6LG

NOTES

- TRENCH TO BE EXCAVATED IN ACCORDANCE WITH CLAUSE 602 1.
- TRENCH BACKFILL TO BE CARRIED OUT IN ACCORDANCE WITH CLAUSE
- POSITION OF CABLE TO BE RECORDED BEFORE BACKFILLING OF TRENCH
- 4. 2..5mm MARKER TAPE TO BE 150mm WIDE P.V.C WITH LEGEND "ELECTRICITY CABLES DUCT". THE TILE SHOULD BE LAMINATED WITH SUITABLE IDENTIFICATION COMPLYING WITH ENATS STANDARD 12-23 AND MEER IMPACT REQUIREMENT OF BS 2484
- REINSTATEMENT SHALL BE TO CLAUSE 618 SURFACE TREATMENT TYPE 1
- THE TRENCH MAY BE EXCAVATED BY HAND OR MACHINE DEPENDING ON LOCAL CONDITIONS - TO BE DETERMINED BY CONTRACTOR

Scale

Drawn

Section

Drawing No.

AKKV

HD

NOT TO SCALE

Checked

APRIL 21

Date

HD/SD/14/03B

| Image: Contract of the second seco | Fill to table 4 B.S. 882 Concrete Base (ST2 Concrete) neccessory duct or cable Incon | Interpretation of the supply of the | FEEDER TYPE 1 Approx height 70 Width internal 15 Depth internal 10 Root 30 Backboard approx Backboard approx IUS CORNERS TH TH TERMINAL AND IUS CORNERS HINGES NHINGES WITH TRIHEA RONT OF CABINETS AN AROUND ALL SIGNAL OF OF VEGETATION TO R ION OR RISKS ASSOCI | 2310950450035015001501500300NA480330×700280×420HEAD SCREW LOCKS.AD SCREW LOCK.D PILLARS FOR EASEPOLES, PILLARS, EDUCE RISKS FROM ATED WITH |
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| S Kirklees | Project STANDARD DE | TAILS | Scale NO Drawn AA | T TO SCALE Checked LH |
| Commercial Regulatory and Operational Service Highway Design Flint Street, Fartown Huddersfield. HD1 6LG | Title FEEDER PILLARS TYPE 1,2 & 3 | | Section HD Drawing No. HD/S | Date MAY 22 D/14/04B |





| 114mm dia post positioned centrally in base. Level to suit surrounding footway. 100mm UTC ducting 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 114mm dia post positioned centrally in base. Level to suit surrounding footway. 100mm UTC ducting UTC UCC Existing ground RS kerb wedge for surface Ground level Trainage tube to soakaway T5mm thick Type 1 sub-base | | PRODUCT. THE CONTRACTOR SHALL INSTALL THE PRODUCT IN ACCORDANCE WITTHE MANUFACTURERS INSTRUCTIONS. WEIR LANE WORCESTER WR2 4AY. TEL.: 01905 427 100 FAX: 01905 427 030 RECOMMENDED INSTALLATION INSTRUCTIONS 1. EXCAVATE HOLE:- EXCAVATION TO SUIT LOCATION AND DEPTH OF SOCKET. COMPACT A 75mm LAYER OF TYPE 1 SUB-BASE IN THE BASE OF THE EXCAVATION 3. PLACE THE RS115 IN THE REQUIRED LOCATION, ENSURING THAT THERE IS AT LEAST 200MM CLEARANCE TO THE SURROUND AND THE DRAINAGE DUCT IS NO PINCHED OR OBSTRUCTED. 4. ENSURE THE TWO STAINLESS STEEL BOLTS DO NOT OBSTRUCT THE TRAFFIC SIGNAL POLE FROM ENTERING THE SOCKET. CONNECT THE TRAFFIC SIGNAL DUCTING (IF USED) TO THE SOCKET. CONNECT THE TRAFFIC SIGNAL DUCTING (IF USED) TO THE SOCKET. LUBRICATE THE STAINLESS STEEL SLEEVE PRIOR TO PLACING THE STUB POLE INTO SOCKET AND FASTEN THE TWO STAINLESS STEEL BOLTS AGAINST THE STUB POLE. USING THE STUB POLE ENSURE THE POST IS IN A VERTICAL POSITI CAST CONCRETE WITH THE LID LOCKED IN POSITION AND COMPACT USING A VIBRATING POKER, FILL THE CONCRETE TO A LEVEL TO ALLOW FOR THE SURROUNDING SURFACING. THE CONCRETE SHOULD BE AT LEAST ST4/C30 MIX OR STRONGER. CHECK THE POST IS VERTICAL AND FINISH. THE CONTRACTOR SHALL INSTALL THE SOCKETS AND THE POLES. THE POLES WILL BE SUPPLIED BY THE TRAFFIC SIGNALS CONTRACTOR. "MOWING STRIPS" 150MM SHALL BE REQUIRED AROUND SIGNAL POLES, PILLARS CABINETS AND CHAMBERS INSTALLED IN AREAS OF VEGETATION TO REDUCE RISKS FROM EQUIPMENT BECOMING OVERGROWN BY VEGETATION OR RISKS | | | | | | | |
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| COUNCIL | | | AA | LH | | | | | | |
| Commercial Regulatory and Operational | Title | | Section | Date | | | | | | |
| Service Highway Design | | | HD | MAY 22 | | | | | | |
| Flint Street, Fartown Huddersfield, HD1 6LG | TRAFFIC SIGNAL POLE | KETENTION SOCKET | Drawing No. HD | /SD/14/07B | | | | | | |





| KII CC Reque install I cert accon | RKLEES DUNCIL ation. ify that the inst dance with the inst dance with the inst | Powergrid fc | ber connection of the protection bear | DOODO1 | NOTE: (1) Label to be installe Cricult drip loop (2) Label to be supplie | d using cable tie to lan d by engineer | tern | |
|---------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|-------------------------|---------------------------------------|------------------|-----------------------------------------------------------------------------------|-------------------------------------------|----------------------------------|-------------------------------|
| | The equi DANGEI | IV Regulations | Date | IVE and could be | | | | |
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| | STREET LIGHTING INVENTORY | | | | | | | | | | | | |
|------------------------------------------------------------------|---------------------------|---------------------------|---------------|-----------|----------------|--------------|---------------|--------------|--------------------------|--------------|-------------|---------------|-----------------------------|
| 1 | ROAD NAME | | _ TOWN AREA | | | | | | | | ۹ | | |
| l i i i i i i i i i i i i i i i i i i i | ROAD CLASSIFICATION | | CONTROL POINT | | | | | | | | | | |
| 1 | NPG DISTR | ICT | _ | | | | | | | | | | |
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| Commercial Regulatory and Operational Service | Title | | | | | | | | | | | | Section Date HD APRIL 21 |
| Highway Design Flint Street, Fartown Huddersfield, HD1 6LG | | STREET LIGHTING INVENTORY | | | | | | | Drawing No. HD/SD/14/15B | | | | |











| | _ | | SPECIFICATION FOR COMPOSITE COVERS AND FRAMES |
|---------------------------------------|------------------|--------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| | | | CONTROLLER CABINET BASE MUST ENABLE THE INSTALLATION OF ANY TRAFFIC SIGNAL CONTROLLER CABINET WITHOUT THE REQUIREMENT FOR BASE SEAL. |
| | | | CONTROLLER CABINET BASES MUST HAVE A MINIMUM OF 56NR SEALING GROMMETS WITH THE ABILITY TO SEAL CABLES WITH AN OUTSIDE DIAMETER OF 5MM TO 26MM DIAMETER. |
| | | | CONTROLLER CABINET PLINTH SHOULD BE MANUFACTURED FROM 2MM UTILITY GRADE 1.4003 STAINLESS STEEL POLYESTER POWDER COATED TO MATCH CONTROLLER CABINETS. |
| | | VARIABLE DEPENDANT ON CABINET MANUFACTURER | PLINTH TO BE MANUFACTURED WITH A MINIMUM 12 LOUVRE AIR VENTS WITH PERFORATED STEEL MESH FIXED INTERNALLY. ALL COMPONENTS MUST BE LINKED WITH 6MM EARTH CABLES. |
| | | | BOTH PLINTH AND CABLE GLAND TRAY TO BE MANUFACTURED WITH PRE-DRILLED FIXING POINTS FOR CABINET, CASTELLATION BARDS AND EARTH POINTS TO SUIT ALL UK TRAFFIC SIGNAL CONTROLLER CABINETS. |
| | | | 6. ACCESS CHAMBER BENEATH PLINTH MUST BE OF TWIN WALL CONSTRUCTION WHICH HAS BEEN VERTICALLY TESTED TO EN124 D400 (40 TONNES). |
| VARIABLE DEPENDANT ON CABINET MANUFAC | | | ACCESS CHAMBERS MUST BE MANUFACTURED FROM THERMOPLASTIC MATERIAL WHICH IS BOTH RECYCLED AND RECYCLABLE AT THE END OF ITS PRODUCT LIFE. |
| | | | ACCESS CHAMBER EXTERNAL WALLS SHALL HAVE AN EXTERNAL RIB OF WIDTH NO GREATER THAN 15MM POSITIONED AT THE BOTTOM OF EACH SECTION, TO ALLOW FULL SECTION DEPTH COMPACTION. |
| | | 60503 | ACCESS CHAMBER EXTERNAL WALLS SHALL BE FREE FROM MOULDING VOIDS THAT WILL NEGATIVELY IMPACT THE EFFECTIVENESS OF COMPACTION WHICH SHOULD BE IN ACCORDANCE WITH THE NEW ROADS AND STREET WORKS ACT (1991) |
| | | | 10. ACCESS CHAMBERS MUST HAVE A MIN OF 24NR 100MM DUCT ENTRY POINTS. THESE MUST BE SUPPLIED WITH REMOVABLE CAPS |
| | | | 11. ACCESS CHAMBERS MUST NOT BE JOINTED IN THE CORNER OR REQUIRES MECHANICAL FIXING THE ACHIEVE STRENGTH. |
| . 150 | ∠ ₁₅₀ | 4 | ACCESS CHAMBERS MUST HAVE THE ABILITY TO BE REDUCED TO 200MM OR EXTENDED IN DEPTH ON SITE EASILY TO OVERCOME SHALLOW STRUCTURES AND/OR EXISTING SERVICES. |
| | | | 13. ACCESS CHAMBER SECTIONS MUST BE CAPABLE OF BEING CUT LATERALLY TO ALLOW FOR TRANSITIONAL GRADIENT INSTALLATIONS. |
| | | | 14. CONTROLLER CABINET BASES ARE TO BE SUPPLIED TO THE ABOVE SPECIFICATION BY NAL LTD OR ANY EQUALLY APPROVED MANUFACTURER. |
| | | | NOTES: |
| | | $ \Delta = \left \begin{pmatrix} 114 \\ \hline \\ $ | 1. DO NOT SCALE FROM THIS DRAWING, ALL DIMENSIONS MUST BE CHECKED/VERIFIED ON SITE. IF IN DOUBT ASK. |
| | | | THIS DRAWING TO BE READ IN CONJUNCTION WITH REFERENCE TO ALL RELEVANT DRAWINGS. |
| | | | ANY DISCREPANCIES NOTED ON SITE ARE TO BE REPORTED TO THE UTC ENGINEER IMMEDIATELY. |
| | 4 150 ∇ | | 4. ALL DIMENSIONS IN MM |
| | FRONT ELEVATION | | |
| | Project | | Scale |
| Kickloo c | | | NOT TO SCALE |
| | STAN | DARD DETAILS | Drawn Checked |
| | | | AA LH |
| Commercial Regulatory and Operational | Title | | Section Date |
| Service Highway Design | | | HD MAY 22 |
| Flint Street, Fartown | | RAFFIC SIGNAL CONTROLLER BASE | Drawing No. HD/SD/14/21B |
| Hudderstield, HD1 6LG | | | |
















GLRCM RootCells, 312 No. 250mm x 250mm x 90mm

RER300 ribbed root deflecting barrier - 5m

RERJT ReRoot joint tape - 1 roll

SAS-L root ball guying system

RRPREC1 irrigation system



