

5. FOR TYPE Z TRENCH THE CONCRETE COVER MAY BE FORMED TO A RADIUS BATTER OR HORIZONTAL SURFACE. MIN. COVER OF CONCRETE SHALL BE 150MM.



MIN

150

IF FIRST PIPE BEYOND JUNCTION -

PIPE IS ENCASED IN CONCRETE A

PIPE SURROUND CONTINUED UP TO THE JOINT WITH ROCKER PIPE

TUMBLING BAY JUNCTION (ACTUAL -

DETAILS WILL BE DEPENDENT ON THE TYPE OF PIPE USED)

IN-SITU CONCRETE TO BE GEN3 -

(DESIGNED TO BRE SPECIAL DIGEST 1

CONCRETE IN AGGRESSIVE GROUND).

IN NON-ADOPTABLE SITUATIONS ST4

REST BEND 210mm MINIMUM RADIUS -

CONCRETE MAY BE USED.

FLEXIBLE BOARD SHALL BE

INSERTED AND THE CONCRETE

CLASS D400 600MM X 600MM CLEAR OPENING COVER COMPLYING WITH BS EN 124 AND BS7903. DEPTH OF COVER 150MM.

ENGINEERING BRICK OR SPECIAL PURPOSE CONCRETE BRICK (2 COURSE MIN. 4 COURSE MAX.) AND/OR PRE-CAST COVER FRAME SEATING RINGS.

PRE-CAST COVER SLABS AND REDUCING SLABS TO COMPLY WITH \_ BS 5911-200 AND BE KITEMARKED, BEDDED WITH MORTAR, PROPRIETARY BITUMEN OR RESIN MASTIC SEALANT.

PRE-CAST CONCRETE MANHOLE SECTIONS AND COVER SLABS TO BE BEDDED WITH MORTAR, PROPRIETARY BITUMEN OR RESIN MASTIC SEALANT. ALL LIFTING EYES IN CONCRETE SECTIONS TO BE POINTED. SEE CLAUSE E2.29 OF SFA7.

CUTTING OF PRE-CAST CONCRETE MANHOLE SECTIONS SHALL NOT BE PERMITTED UNDER ANY CIRCUMSTANCES.

HIGH STRENGTH CONCRETE TOPPING TO BE BROUGHT UP TO A DENSE SMOOTH FACE NEATLY SHAPED AND FINISHED TO ALL BRANCH CONNECTIONS (MINIMUM THICKNESS 20MM). BENCHING SLOPE TO BE 1 IN 10 TO 1 IN 30.

CONSTRUCTION JOINT
DISTANCE BETWEEN TOP OF PIPE AND UNDERSIDE OF P SECTION TO BE MINIMUM 50MM TO MAXIMUM 300MM.

225 MIN. (TO BARREL OF PIPE) INSITU GEN 3 CONCRETE BASE.



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VERTICAL BACKDROP INTO PCC MANHOLE 1:20 SCALE

## ROCKER PIPE

PIPE JOINTS TO BE AS CLOSE AS POSSIBLE TO FACE OF MANHOLE TO PERMIT SATISFACTORY JOINT AND SUBSEQUENT MOVEMENT.

PIPE JOINTS WITH CHANNEL TO BE 100 MIN. INSIDE FACE OF MANHOLE.

DIAMETER OF LARGEST PIPE IN MANHOLE	CHAMBER SECTION DIAMETER	
Less than 375	1200	
375 to 450	1350	
500 to 700	1500	
750 to 900	1800	
975 to 1050	2100	
1200 to 1500	2400	

DIMENSION ABOVE ARE THE MINIMUM. IF TWO OR MORE PIPES ENTER THE MANHOLE, THE CHAMBER SIZE SHALL BE SUFFICIENT TO ACCOMMODATE THE MINIMUM BENCHING REQUIREMENTS



TYPE B MANHOLE TYPICAL DETAILS DEPTH TO SOFFIT 1.5M TO 3M SCALE 1:20

MORTAR BEDDING AND HAUNCHING

TO COVER AND FRAME SHALL BE

MINIMUM CLEAR ACCESS 600MM

PLASTIC ENCAPSULATED STAINLESS STEEL

- 150 INSITU GEN 3 CONCRETE SURROUND.

BOTTOM PRECAST CONCRETE MANHOLE

SELF CLEANSING TOE HOLES TO BE

PROVIDED WHERE CHANNEL EXCEEDS

RING SHALL BE BUILT INTO INSITU CONCRETE

INVERTS TO BE FORMED USING CHANNEL PIPES.

DOUBLE WIDTH/RUNG STEP RUNGS

BETWEEN 250 TO 300MM.

BASE BY MINIMUM 75MM

600MM WIDE.

EPOXY RESIN MORTAR.

- 1. Do not scale from this drawing. All dimensions shown are in millimetres unless noted otherwise.
- 2. This drawing shall be read in conjunction with all related
- documentation and standard details. 4. All existing course thicknesses to be checked on site and
- design adjusted to suit. 5. Kerb shall be laid with dry joints and closely butted to
- adjacent kerbs. 6. For radii of 12m or less kerbs of the appropriate radius
- shall be used. Kerbs shall be bedded on a 10min/30max freshly mixed
- mortar of 3:1 sand:cement (proportions by volume) using sand complying with BS EN 12620
- 8. Kerb foundation to have a minimum thickness shown on standard detail or founded on top surface of sub-base layer which ever is the greater.
- 9. Concrete foundation and backing for kerbs and edgings to be to BS EN 1340 ST4 to SHW clause 2602.
- 10. All kerbs to be precast concrete, grey in colour with a standard finish. 11. Red coloured tactile flags shall be laid at all controlled
- pedestrian crossing points. 12. The works shall be carried out in accordance with the DfT
- MCHW, DMRB and the local requirements of Barnsley MBC guidance & specification. 13. References to clause numbers refer to the Specification
- for Highway Works unless noted otherwise. 14. Conflicting information shown on the engineer's
- drawings or discrepancies between the information given by the engineer and that provided by others must be referred to the engineer before the works commence.
- 11. For GPR Survey, refer to drawing numbers FS0954-MTP-ZZ-XX-DR-W-0510.
- 12. The contractor shall identify the precise line and depth of all services prior to commencing any excavation work.
- 13. In the areas of new carriageway construction, where the width of carriageway is less than 1.0m, concrete fill type ST4 or other similar specification as approved by Barnsley MBC to be used.
- 14. Kerbing to be relaid/renewed to provide a 100mm upstand before footpath is constructed.
- 15. Areas of footway/hardstanding & grassed verges to be made good once new kerbing/edging has been laid.
- 16. For pavement tie in details refer to standard details from Barnsley MBC. 17. CBR testing to be completed using 600mm dia. Plate on
- formation level, at 20m intervals. BMBC Engineer to be present. Not on line of drainage or utilities trenches.

	Barnsley Borough Construction Details
Drawing No.	Drawing Title
TM/SD/25	Standard Details - Traffic Signals Pedestrian Crossing Road Studs

PLASTIC ENCAPSULATED STAINLESS STEEL DOUBLE WIDTH/RUNG STEP RUNGS AT 250 C/C.

nance Survey Licence number: 100022432 vina Revisions ev: Drn: Date: Details: AM 19/10/2022 First issue ARM 31/03/2023 Minor amendments 21/07/2023 Amended following BMBC comments 11/09/2023 Amended following BMBC comments Bowmer & Kirkland Trinity Academy, Barnsley Standard Details MILESTONE 7 Ancells Court, Rye Close, Fleet, Hampshire, GU51 2UY Tel: 01483 397888 Gateshead IBC, Mulgrave Terrace, Gateshead, NE8 1AN Tel: 0191 338 7220 web: www.milestonetp.co.uk rawing Number: 1:250 @ A1 FS0954-MTP-ZZ-ZZ-DR-D-0711 P04