SUITABLE FOR OUTFALL PIPES LESS THAN 350mm 150mm THICK STONE PITCHING SET IN AND BEDDED ON IN-SITU CONCRETE OR PRECAST CONCRETE HEADWALL, DESIGNED TO BRE SPECIAL DIGEST 1, CONCRETE IN AGRESSIVE FLAP VALVE REQUIRED FOR PS -ROCKER PIPE, SEE OVERFLOW, TIDAL OR OTHER AREAS AT RISK OF BACKING UP DCG CLAUSE E6.6.2

150mm MINIMUM

CONCRETE BED AND

CAST INTEGRALLY WITH

SURROUND TO PIPE

NOTE: STONE PITCHING TO BE

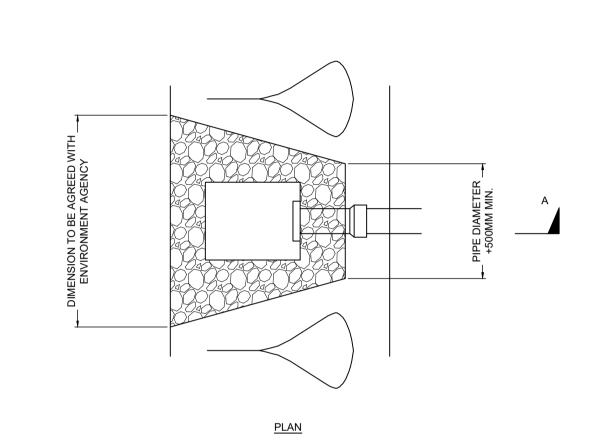
SMOOTH, HARD AND DURABLE

TYPICAL DETAIL OF OUTFALL TO WATERCOURSE

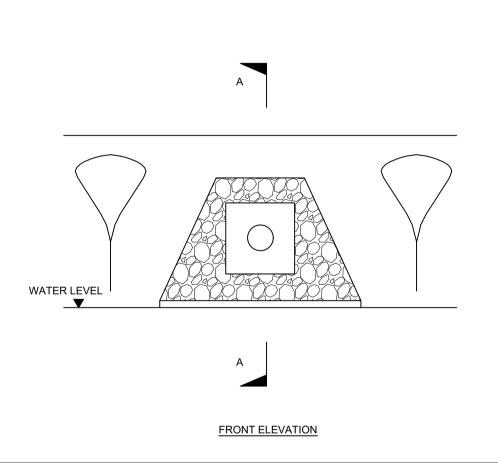
CONSTRUCTION -

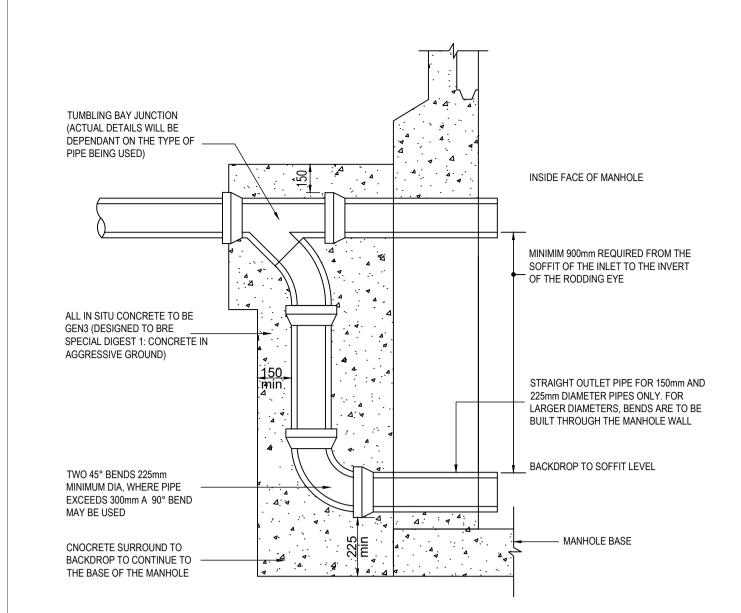
WATER LEVEL

JOINTS

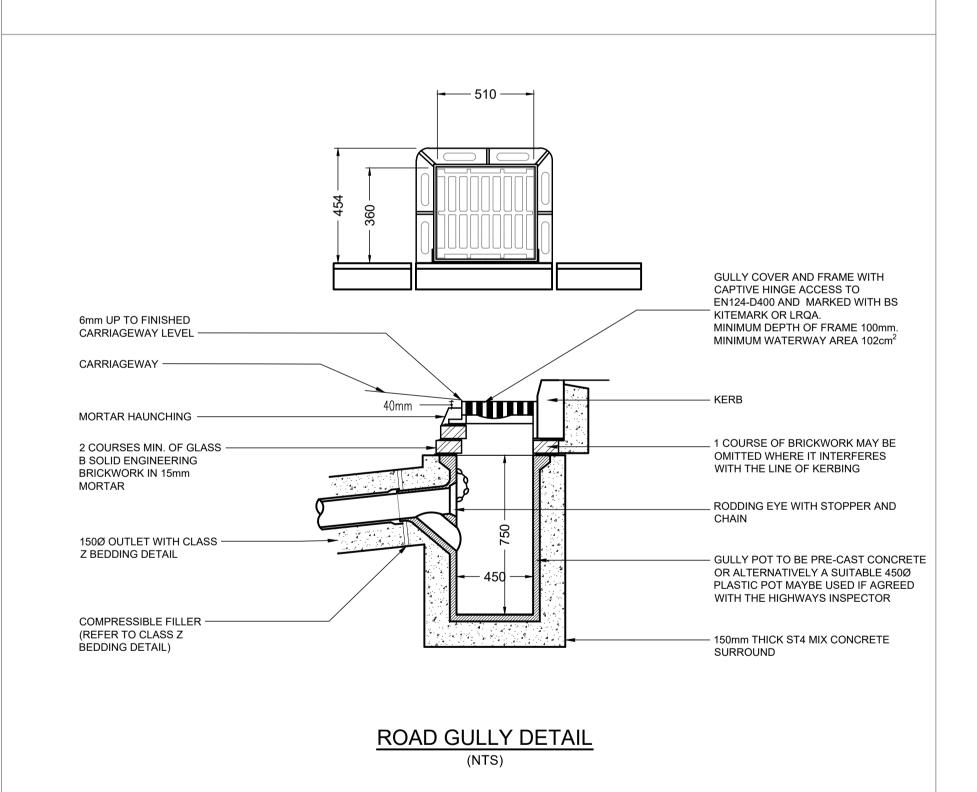


SECTION A-A



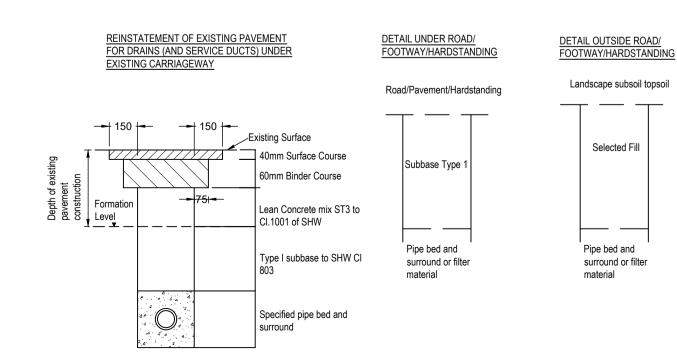


TYPICAL BACKDROP DETAIL



TRENCH BACKFILL DETAILS

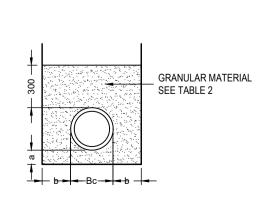
(SCALE 1:20)



GRANULAR SURROUND TO PIPES

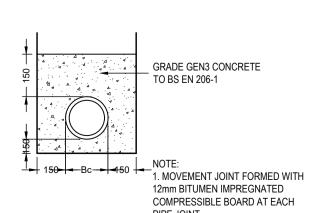
CLASS S & T BEDDING

COVER GREATER THAN 1.2m



CONCRETE SURROUND TO PIPES

PIPE WITH COVER LESS THAN 1.2m IN TRAFFICKED AREAS AND LESS THAN 0.9m IN UN-TRAFFICKED AREAS & GULLY



Strata Dimension 'a' Dimension 'b' or 100mm minimum. 150mm min. clearance from barrel or socket Not less than 50mm undersockets 4 or 200mm minimum. Not less than 150mm undersockets 200mm min. clearance from barrel or socket Bc - External pipe diameter

TABLE 2 - PIPE BEDDING & SURROUND FOR RIGID PIPE				
Pipe nominal size (mm)	Aggregate to BS882			
150	10 or 14mm nominal single size 14mm to 5mm graded			
over 150 to 500	10, 14 or 20mm nominal single size 14mm to 5mm graded 20mm to 5mm graded			
over 500	10,14, 20 or 40mm nominal single size 14mm to 5mm graded 20mm to 5mm graded 40mm to 5mm graded			

P1 FIRST ISSUE JH JM 17/01/25 AMENDMENT CLIENT

JOHN SWIFT HOMES LTD.

THIS PRINT AND ANY DESIGN THEREON IS THE PROPERTY OF BECKWITH & HANLON CONSULTING ENGINEERS LIMITED AND IS TO BE RETURNED ON REQUEST. IT IS TO BE USED ONLY FOR THE PURPOSE FOR WHICH IT WAS EXPRESSLY LOANED AND IS NOT TO BE COPIED IN ANY MANNER, NOR IS INFORMATION TAKEN THEREFROM TO BE

THIS DRAWING IS TO BE READ IN CONJUNCTION WITH BECKWITH AND HANLON DRG. 23-034-200

ANY ADOPTABLE DRAINAGE WORKS TO BE IN ACCORDANCE WITH THE WATER AUTHORITIES

PUBLICATION "CODES FOR ADOPTION DESIGN AND CONSTRUCTION GUIDE (DCG)" AS WELL AS ANY ADDITIONAL REQUIREMENTS OF THE ADOPTING AUTHORITY AND APPROVED DRAWINGS.

PRECAST CONCRETE MANHOLE RINGS TO COMPLY WITH THE RELEVANT PROVISIONS OF BS5911:

ALL BRICKWORK TO BE CLASS B ENGINEERING COMPLYING WITH THE RELEVANT PROVISIONS OF BS 3921. CONCRETE BRICKS MAYBE USED IF THEIR SPECIFICATION IS THE SAME AS CLASS B

ENGINEERING BRICKS. PLEASE SEEK APPROVAL FROM RELEVANT WATER AUTHORITY BEFORE

MANHOLE COVERS AND FRAMES SHALL COMPLY WITH THE RELEVANT PROVISIONS OF BS EN 124

THE USE OF PRECAST CONCRETE PRODUCTS & SULPHATE RESISTANT CEMENT IS MANDATORY,

150mm CONCRETE SURROUND IS REQUIRED AROUND PIPES WHERE THE DEPTH FROM FINISHED

LOCATIONS OF ALL EXISTING SEWERS ON-SITE TO BE CONFIRMED & DETAILS PROVIDED TO THE

ALL STREET WORKS TO BE CONSTRUCTED IN ACCORDANCE WITH THE CURRENT LOCAL AUTHORITY

ALL CONNECTIONS TO EXISTING ADOPTED SEWERS ARE SUBJECT TO WATER AUTHORITY APPROVAL

2. PRIVATE DRAINAGE TO BE 110mm DIA. UPVC PIPES WITH GRP OR UPVC INSPECTION CHAMBERS UNLESS NOTIFIED OTHERWISE. SYSTEM DESIGN & CONSTRUCTION TO CONFORM WITH

3. ALL PRIVATE DRAINAGE TO BE CARRIED OUT IN ACCORDANCE WITH BUILDING REGULATION

15. ALL POLYPROPYLENE INSPECTION CHAMBERS SHALL BE IN ACCORDANCE WITH BS7158.

4. ALL CONNECTIONS TO BE TURNED IN DIRECTION OF FLOW USING PIPE BENDS.

ALL TRENCHES UNDER EXISTING & PROPOSED HIGHWAYS ARE TO BE BACKFILLED WITH

0. ROADS AND SEWERS CONTRACTOR MUST INFORM WATER AUTHORITY PRIOR TO WORKS

SURFACE TO PIPE SOFFIT IS LESS THAN 1200mm IN HARDSTANDING AREAS AND LESS THAN 900mm

UNLESS A LABORATORY PROVES SUCH PRECAUTIONS ARE NOT NECESSARY.

AND BE OF A NON-ROCKING, NON-VENTILATING DESIGN.

ENGINEER PRIOR TO COMMENCEMENT OF WORKS.

THOROUGHLY COMPACTED DOT TYPE 1 SUB-BASE.

COMMENCING ANY CONNECTION WORKS TO ADOPTED SEWERS.

MANUFACTURER'S INSTRUCTIONS & "GOOD PRACTICE GUIDE".

AND SECTION 106 OF THE WATER INDUSTRIES ACT 1991.

DESIGN GUIDE & SPECIFICATION.

REQUIREMENTS.

TRANSMITTED OR PASSED TO OTHERS

DO NOT TAKE DIGITAL DIMENSIONS OFF THIS DRAWING.

DO NOT SCALE OFF THIS DRAWING.

SERIES DRAWINGS.

DRAINAGE NOTES

NOTES:

GENERAL

PROJECT

SUMMERGROVE WHITEHAVEN

DRAWING TITLE

DRAINAGE DETAILS SHEET 2



Beckwith & Hanlon Consulting Engineers Limited

F22 Willow Court, Marquis Court, Team Valley Trading Estate, Gateshead, NE11 0RU tel: 0191 273 7582

DUALE		
AS SHOWN JH	JM	DEC. '24

DRAWING NO. 23-034-231

PRELIMINARY