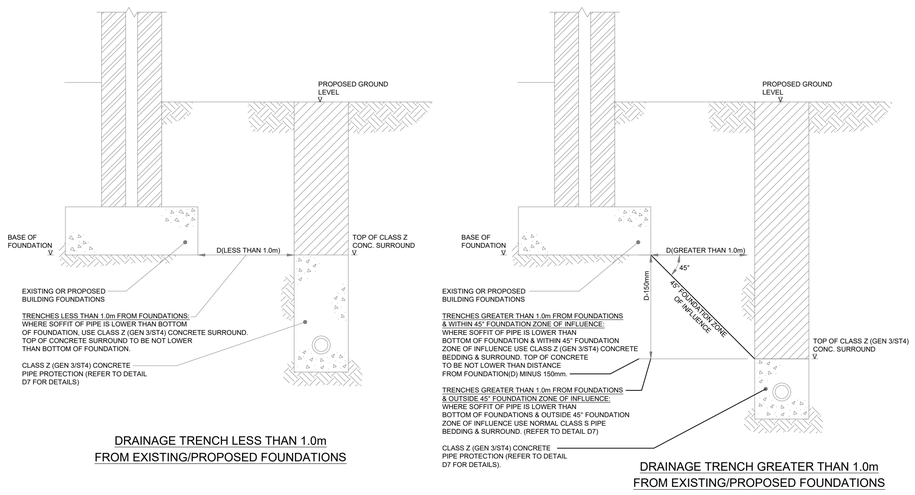
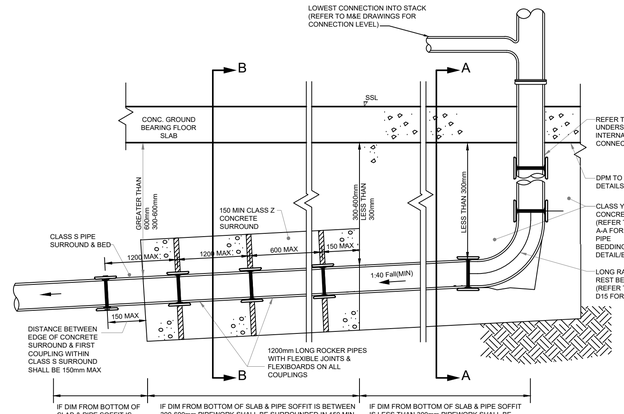


DRAINAGE TRENCH LESS THAN 1.0m
FROM EXISTING/PROPOSED FOUNDATIONS

DRAINAGE TRENCH GREATER THAN 1.0m
FROM EXISTING/PROPOSED FOUNDATIONS

PIPE PROTECTION ADJACENT TO EXISTING/PROPOSED FOUNDATIONS



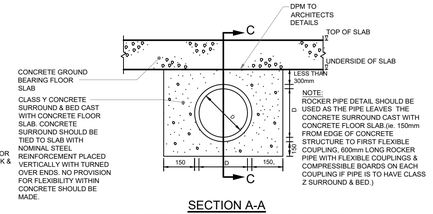
IF DIM FROM BOTTOM OF SLAB & PIPE SOFFIT IS GREATER THAN 600mm CLASS S SURROUND & BED SHALL BE USED

IF DIM FROM BOTTOM OF SLAB & PIPE SOFFIT IS BETWEEN 300-600mm PIPEWORK SHALL BE SURROUNDED IN 150 MIN CLASS Z CONCRETE WITH FLEXIBLE JOINTS & FLEXIBOARDS ON ALL COUPLINGS (REFER TO SECTION B-B FOR DETAILS)

IF DIM FROM BOTTOM OF SLAB & PIPE SOFFIT IS LESS THAN 300mm PIPEWORK SHALL BE CAST IN 150 MIN CLASS Y CONCRETE SURROUND CAST & INTEGRAL WITH REINFORCED GROUND SLAB (REFER TO SECTION A-A FOR DETAILS)

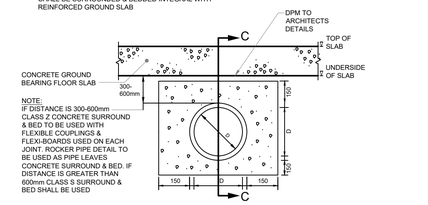
NOTES:
1. THIS DETAIL SHALL ONLY BE USED UNDER AREAS OF GROUND BEARING SLAB WHERE UNDER SLAB PIPEWORK CAN BE SUPPORTED BY UNDER SLAB FILL MATERIAL.
2. CONNECTION INTO INTERNAL MANHOLE OR MAIN UNDER SLAB RUN OR EXIT THROUGH FOUNDATION EDGE DETAIL AS PER DETAIL D (REFER TO DRAINAGE PLAN)

SECTION C-C



SECTION A-A
WHERE DISTANCE BETWEEN PIPE SOFFIT & UNDERSIDE OF CONCRETE GROUND BEARING FLOOR SLAB/GROUND BEAM IS LESS THAN 300mm

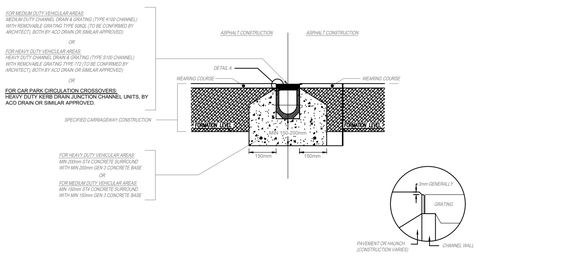
WHERE SOFFIT OF PIPE IS WITHIN 300mm OF UNDERSIDE OF CONCRETE FLOOR SLAB, THE PIPE SHALL BE SURROUNDED & BEDDED INTEGRAL WITH REINFORCED GROUND SLAB



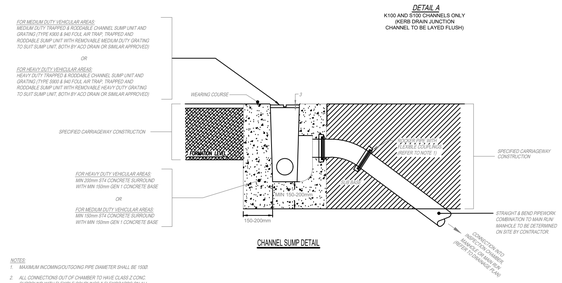
WHERE SOFFIT OF PIPE IS BETWEEN 300 & 600mm FROM UNDERSIDE OF CONCRETE FLOOR SLAB, THE PIPE SHALL BE SURROUNDED & BEDDED IN ST4 CONCRETE. WHERE THIS DISTANCE EXCEEDS 600mm THE PIPE SHALL BE SURROUNDED & BEDDED IN GRANULAR MATERIAL

SECTION B-B
WHERE DISTANCE BETWEEN PIPE SOFFIT & UNDERSIDE OF CONCRETE GROUND BEARING FLOOR SLAB/GROUND BEAM IS GREATER THAN 300mm

TYPICAL UNDERSLAB PIPE BEDDING DETAILS FOR PIPEWORK UNDER GROUND BEARING SLAB
(FOR ALL UNDER SLAB PIPE DEPTHS)



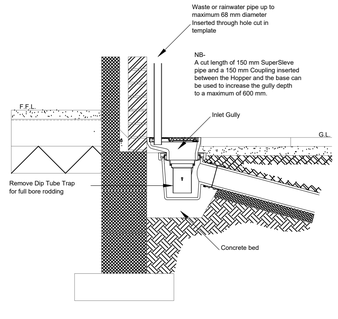
DETAIL 4
K100 AND S100 CHANNELS ONLY (KERB DRAIN JUNCTION CHANNEL TO BE LAYED FLUSH)



CHANNEL SUMP DETAIL

TYPICAL EXTERNAL CHANNEL DRAIN & TRAPPED/ RODDABLE SUMP UNIT DETAILS

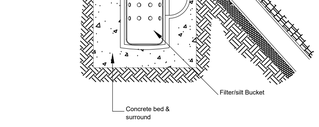
NOTES:
1. MAXIMUM INCOMING/OUTGOING PIPE DIAMETER SHALL BE 150Ø.
2. ALL CONNECTIONS OUT OF CHAMBER TO HAVE CLASS Z CONC. SURROUND WITH FLEXIBLE COUPLINGS & FLEXIBOARDS ON ALL COUPLINGS WHERE COVER TO PIPE SOFFIT IS EQUAL TO OR LESS THAN 600mm (REFER TO DETAIL D FOR DETAILS). WHERE COVER IS LESS THAN 600mm (UNDER NON-VEHICULAR AREAS) & EQUAL TO OR LESS THAN 450mm UNDER NON-VEHICULAR AREAS.
3. **JOINT SEALANT - ALL DRAIN CHANNEL JOINTS AND FITTINGS ARE TO BE SEALED WITH SIKAFLEX PRO 3WF BY SIKA OR SIMILAR APPROVED.**



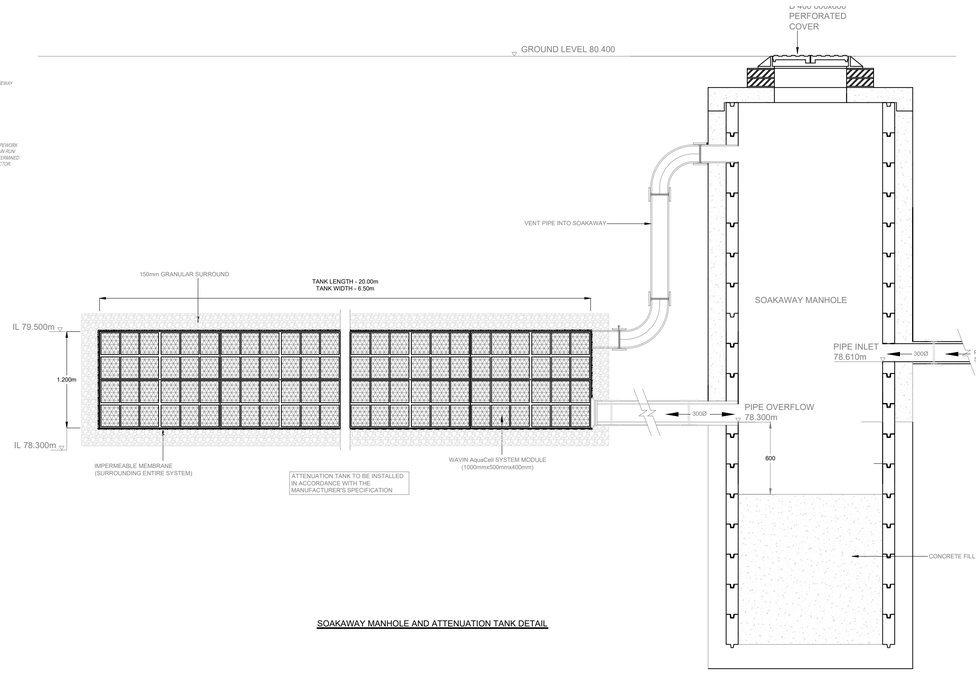
TYPICAL RAINWATER PIPE AND BACK INLET GULLY DETAIL



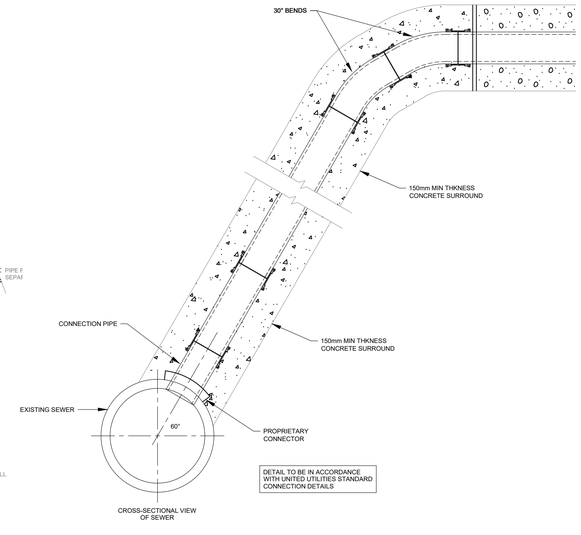
TYPICAL PIPE THROUGH GROUND BEAM / FOUNDATION DETAIL



EXTERNAL SW GULLY DETAIL



SOAKAWAY MANHOLE AND ATTENUATION TANK DETAIL



CONNECTION TO EXISTING TO SEWER

status
FINAL ISSUE

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Hazard Identification

ref	hazard	date

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C3	FINAL ISSUE – AS CONSTRUCTED	HM	23.10.25
C2	SOAKAWAY MANHOLE AMENDED	MH	07.04.25
C1	CONSTRUCTION ISSUE	HM	04.03.25
ref	revision	by	date

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client
ROBERTSON CONSTRUCTION LTD

project
BLACKLEY FIRE STATION

drawing
DRAINAGE DETAILS
SHEET 2

drawn by	DMC	date	MARCH 2025
checked by		date	
scale	N.T.S		A1

dwg no **BFS-BGH-XX-XX-DR-C-0154** rev **C3**