

# PROPOSED ALTERATIONS & ADDITIONS AT 50 UNDERCLIFFE ROAD, EARLWOOD NSW 2206



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## CONCEPT STORMWATER DESIGN PLANS

LEGEND	
	STORMWATER LINE
	SSD SUBSOIL LINE
	STORMWATER RISING MAIN
	EXISTING STORMWATER LINE
	AUTHORITY STORMWATER LINE
	AUTHORITY SEWER LINE
	AUTHORITY WATER LINE
	AUTHORITY GAS LINE
	AUTHORITY ELECTRICITY LINE
	AUTHORITY UNDERGROUND ELECTRICITY LINE
	AUTHORITY FIBRE OPTIC LINE
	AUTHORITY COMMS LINE
	FENCE LINE
	GRATED SURFACE INLET PIT
	GRATED SURFACE INLET PIT WITH ENVIROPOD INSERT
	JUNCTION PIT
	KERB INLET PIT
	EXISTING GRATED SURFACE INLET PIT
	GRATED TRENCH DRAIN
	EXISTING JUNCTION PIT
	EXISTING KERB INLET PIT
	EXISTING TELSTRA PIT
	EXISTING HYDRANT
	EXISTING STOP VALVE
	EXISTING GAS VALVE
	EXISTING POWER POLE
	EXISTING BOUNDARY TRAP

SERVICES SHOWN ON PLAN ARE INDICATIVE, EXACT DEPTH AND LOCATION TO BE CONFIRMED ONSITE. CONTRACTOR TO CARRY OUT DIAL BEFORE YOU DIG APPLICATION AND ENGAGE A REGISTERED SURVEYOR TO PEG OUT ALL EXISTING SERVICES PRIOR TO ANY WORK COMMENCING ONSITE.

LEGEND	
	EXISTING SEWER MANHOLE
	OVERLAND FLOW PATH
	RAINWATER OUTLET
	CLEAR OUT POINT
	DISH DRAIN OUTLET
	PLANTER DRAIN
	CAPPING
	PIT TAG/NUMBER
	RAINHEAD
	DOWNPIPE DROP
	NON RETURN VALVE
	WALL PENETRATION
	DOWNPIPE
	DOWNPIPE + SPREADER
	WARNING LIGHT
	SPOT LEVELS
	BENCHMARK

### ABBREVIATIONS:

Ø or DIA	DIAMETER
CBR	CALIFORNIA BEARING RATIO
CH	CHAINAGE
CL	CENTER LINE
CO	CLEAR OUT
DD	DISH DRAIN
DDO	DISH DRAIN OUTLET
DEJ	DOWELLED EXPANSION JOINT
DGB	DENSE GRADED BASECOURSE
DGS	DENSE GRADED SUB-BASE
DP	DOWNPIPE
e	EXISTING
FFL	FINISHED FLOOR LEVEL
GTD	GRATED TRENCH DRAIN
GSP	GRATED SURFACE INLET PIT
HYD	HYDRANT
IJ	ISOLATING JOINT
IK	INTEGRAL KERB
IL	INVERT LEVEL
IP	INTERSECTION POINT
KIP	KERB INLET PIT
KO	KERB ONLY
K&G	KERB & GUTTER
KR	KERB RETURN
LS	LONGITUDINAL SECTION
NGL	NATURAL GROUND LEVEL
OFP	OVERLAND FLOW PATH
OSD	ON-SITE DETENTION
R	RADIUS
RCP	REINFORCED CONCRETE PIPE
RK	ROLL KERB & GUTTER
RL	REDUCED LEVEL
RW	RETAINING WALL
RWT	RAINWATER TANK
SJ	SAWN CONTROL JOINT
SMH	SEWER MAN HOLE
SW	STORMWATER
SWP	STORMWATER PIT
SWRM	STORMWATER RISING MAIN
SWS	STORMWATER SUMP
SV	STOP VALVE
TOK	TOP OF KERB
TOW	TOP OF WALL
TWL	TOP WATER LEVEL
TP	TANGENT POINT
UPVC	UNPLASTICISED POLYVINYL CHLORIDE
UNO	UNLESS NOTED OTHERWISE
WPJ	WEAKENED PLANE JOINT
FF	FIRST FLUSH DEVICE
TYP	TYPICAL

### DRAINAGE NOTES:

ALL PIPES TO BE LAID ON 75mm SAND BED WITH THE BARRELS FULLY SUPPORTED

100mm AND 150mm DIAMETER PIPES TO BE LAID ON MINIMUM 1% GRADE

MINIMUM DEPTH OF COVER FOR PIPES NOT SUBJECT TO VEHICULAR LOADING TO BE 300mm

ALL DRAINAGE PIPES LAID UNDER PAVEMENT SHALL BE REINFORCED CONCRETE WITH RUBBER RING JOINTS

BACKFILL TRENCHES WITH COMPACTED SAND OR APPROVED AGGREGATE MATERIAL

ALL PITS TO HAVE 600x600mm INTERNAL DIMENSIONS (U.N.O.)

SILT ARRESTORS TO HAVE 900x900mm INTERNAL DIMENSIONS

HEAVY DUTY GRATES AND COVERS ARE TO BE PROVIDED IN TRAFFICABLE AREAS

PIT GRATE TO BE TYPE WELDLOK OR APPROVED EQUIVALENT

ALL PITS SHALL BE PROVIDED WITH A LOCKING CLIP

ALL PITS SHALL BE MAINTAINED REGULARLY

TOP OF BENCHING SHALL BE TO THE HALF OF THE OUTLET PIPE DIAMETER

MAXIMUM FRONT ENTRY PIPE:-  
STRAIGHT ENTRY - Ø750  
SKEW ENTRY 45° - Ø525

Ø100 SUBSOIL DRAINAGE PIPE 3000mm LONG WRAPPED IN FABRIC SOCK TO BE PROVIDED ADJACENT TO INLET PIPES

COMPRESSIVE STRENGTH f<sub>c</sub> FOR CAST IN SITU CONCRETE TO BE A MINIMUM OF 20MPa AT 28 DAYS

PROVIDE CLEANING EYES TO ALL DOWNPIPES NOT DIRECTLY CONNECTED TO PITS

ISOLATED JOINTS TO BE PROVIDED TO ISOLATE CONCRETE PAVEMENTS FROM PITS

ALL TRENCH GRATES PROVIDED SHALL HAVE A MINIMUM CLEAR WIDTH OF 200mm

STORMWATER DRAINAGE CONNECTIONS TO THE MAIN SYSTEM SHALL BE TO THE REQUIREMENTS AND THE SATISFACTION OF LOCAL COUNCIL

### STORMWATER PIPE BEDDING/PAVING NOTES:

WHERE TRENCH BASE IS ROCK A MINIMUM OF 75mm BEDDING TO BE PROVIDED UNDER PIPE COLLARS.

STORMWATER PIPE BEDDING DETAIL TO BE IN ACCORDANCE WITH LOCAL COUNCIL REQUIREMENTS. BEDDING DETAILS TO BE CONFIRMED UPON EXCAVATION & PRIOR TO INSTALLATION OF PIPEWORK.

### FOOTPATH REINSTATEMENT NOTES:

REMOVE ALL SAND FILL WITHIN THE FOOTPATH AREA TO THE EXISTING SUBGRADE.

SUPPORT ALL AUTHORITY SERVICES TO STRUCTURAL ENGINEERS DETAILS DURING EXCAVATION.

REINSTATE FOOTPATH SUBGRADE.

THE CONTRACTOR SHALL PROVIDE CERTIFICATION OF COMPACTION FROM A NATA REGISTERED TESTING AUTHORITY. MINIMUM THREE TESTS PER LAYER AS FOLLOWS:  
SELECT FILL 95% MODIFIED  
SELECT FILL (LESS THAN 300mm BELOW BASE COURSE) 98% MODIFIED  
BASE COURSE 100% MODIFIED

### EROSION & SEDIMENT CONTROL NOTES:

PROVIDE SILT FENCE/HAY BAIL BARRIERS TO THE LOW SIDE OF ALL EXPOSED EARTH EXCAVATIONS (TYPICAL).

ISOLATE EXISTING STORMWATER PITS WITH HAY BALES TO FILTER ALL INCOMING FLOWS.

DO NOT STOCK PILE EXCAVATED MATERIAL ON THE ROAD WAY.

### SURVEY

THE EXISTING SITE CONDITIONS SHOWN ON THE FOLLOWING DRAWINGS HAVE BEEN INVESTIGATED BY OTHERS.

THE INFORMATION IS SHOWN TO PROVIDE A BASIS FOR DESIGN.

GEBA CONSULTING DOES NOT GUARANTEE THE ACCURACY OR COMPLETENESS OF THE SURVEY BASE OR ITS SUITABILITY AS A BASIS FOR CONSTRUCTION.

SHOULD DISCREPANCIES BE ENCOUNTERED DURING CONSTRUCTION BETWEEN THE SURVEY DATA AND ACTUAL FIELD DATA, CONTACT GEBA CONSULTING.

ADOPT LEVELS AS PER ORIGINAL SURVEY PLAN.

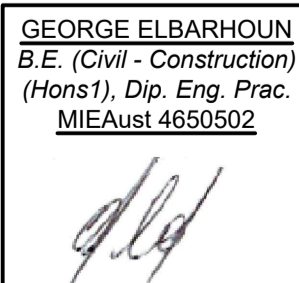
### DRAWING REGISTER

NUMBER	NAME	REVISION
SW01	COVER SHEET & SPECIFICATIONS	A
SW02	TUNNEL FLOOR STORMWATER PLAN	A
SW03	DETAILS SHEET	A



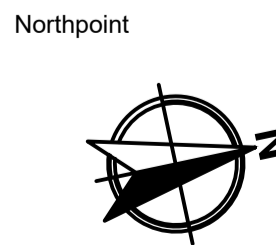
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Client  
**ZAC REES**  
Architect  
**SY DESIGN**  
Project  
**PROPOSED ALTERATIONS & ADDITIONS**  
Address  
**50 UNDERCLIFFE ROAD, EARLWOOD NSW 2206**

Scale  
  
SCALE 1:100 ON ORIGINAL SIZE



Description  
**FOR APPROVAL**

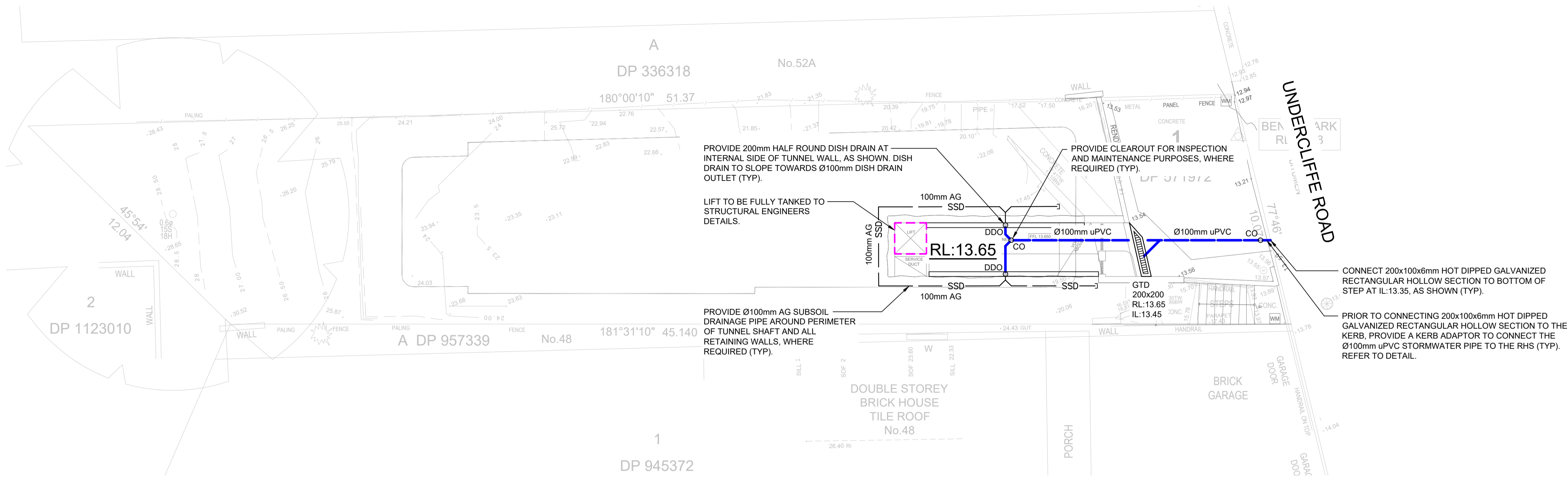
Des. A.M. Chk. E.Z. App. E.Z. Rev. A Date 27.03.25

### DEVELOPMENT APPLICATION (DA)

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### COVER SHEET & SPECIFICATIONS

Project number GC24248.1	Drawing number SW01	Original Size A1	Scale 1:100
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DESIGN NOTES:

THE SITE IS LOCATED IN CANTERBURY-BANKSTOWN COUNCIL.

THE DEVELOPMENT PROPOSAL IS FOR AN ALTERATIONS AND ADDITIONS TO AN APPROVED CDC RESIDENTIAL DWELLING.

SITE AREA = 442.80m2.

OSD IS NOT REQUIRED ACCORDING TO SECTION 4.1, CLAUSE 2 OF CANTERBURY-BANKSTOWN COUNCIL DCP 2023 - CHAPTER 1 SINCE THE TOTAL POST DEVELOPMENT IMPERVIOUS AREA PERCENTAGE IS LESS THAN 75%.

ALL STORMWATER PIPES SHOWN ON PLAN ARE Ø100mm uPVC AND SLOPING AT 1.0% U.N.O.

EXISTING SERVICES SHOWN ON PLAN ARE INDICATIVE ONLY. CONTRACTOR TO CONFIRM EXACT SIZE, LOCATION AND DEPTH PRIOR TO COMMENCING ANY WORKS.

CONTRACTOR TO ENSURE THAT THE PROPOSED DEVELOPMENT DOES NOT IMPEDE ON EXISTING STORMWATER SYSTEM.

CONTACT STORMWATER ENGINEER IF ANY CLASHES WITH EXISTING SERVICES ARE FOUND DURING CONSTRUCTION.

APPLICATION NOTES:

THE PROPOSED STORMWATER SYSTEM IS TO MAKE REFERENCE TO THE CDC APPROVED STORMWATER PLANS PREPARED BY GEBA CONSULTING FOR THE NEW DWELLING REF: GC24248, REVISION A, DATED 23/09/2024.

RESIDENTIAL DWELLING CDC APPROVAL NUMBER: CDC-258094.



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MIEAust 4650502

*[Signature]*

Client  
ZAC REES

Architect  
SY DESIGN

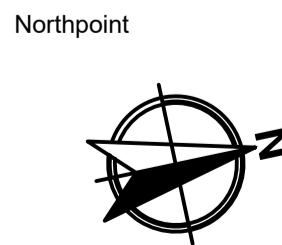
Project  
PROPOSED ALTERATIONS & ADDITIONS

Address  
50 UNDERCLIFFE ROAD, EARLWOOD NSW 2206

Scale

0m 1 2 3 4 5

SCALE 1:100 ON ORIGINAL SIZE



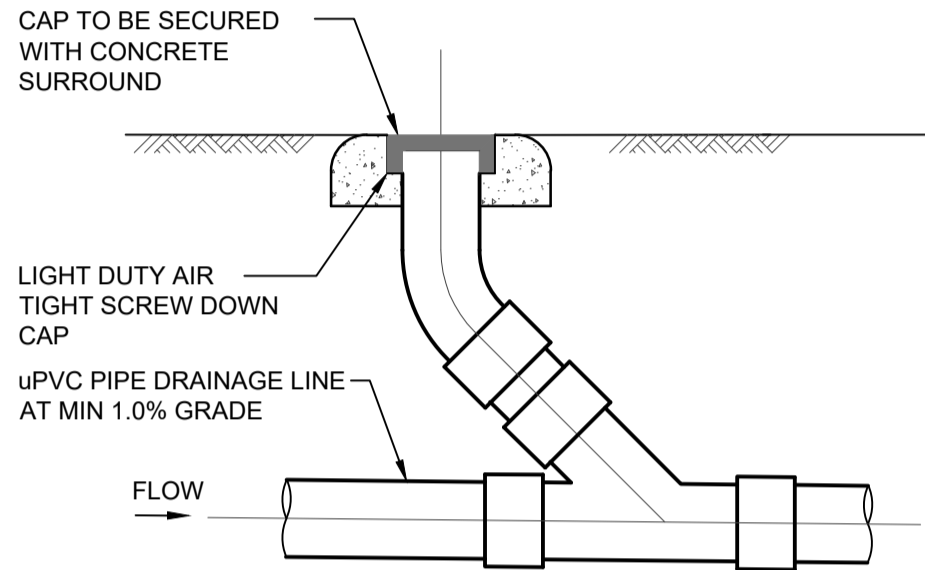
Description	Des.	Chk.	App.	Rev.	Date
FOR APPROVAL	A.M.	E.Z.	E.Z.	A	27.03.25

DEVELOPMENT APPLICATION (DA)

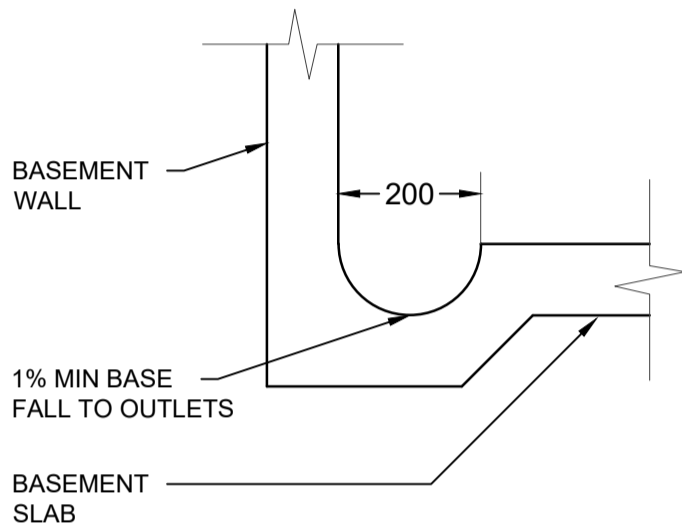
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TUNNEL FLOOR STORMWATER PLAN

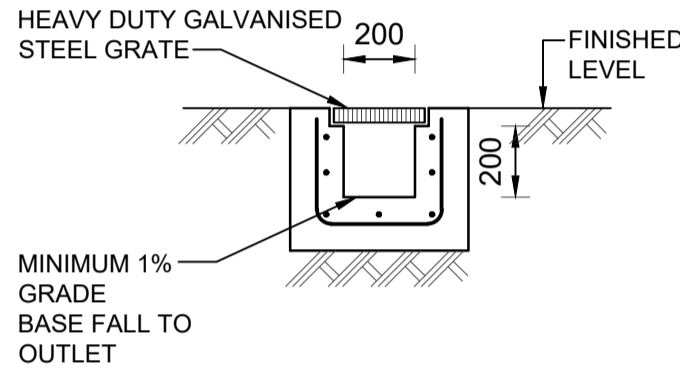
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GC24248.1	SW02	A1	1:100



**DETAIL 1**  
CLEANING EYE  
SCALE 1:20



**DETAIL 2**  
DISH DRAIN  
SCALE 1:20



**DETAIL 3**  
GRATED TRENCH DRAIN  
SCALE 1:20

#### CONNECTION TO KERB

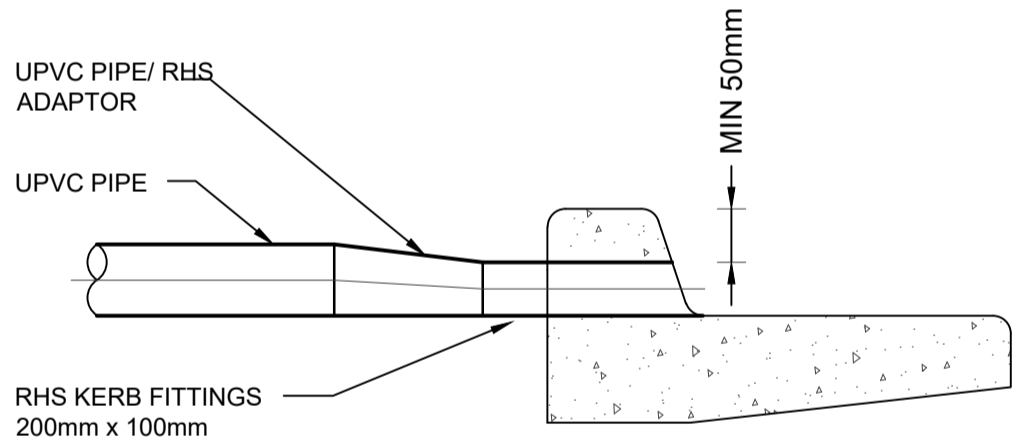
INTERNAL DIAMETER OF PIPES OR INTERNAL HEIGHT OF RECTANGULAR SECTION ACROSS FOOTPATH SHALL BE 100mm MAXIMUM, 90mm MINIMUM

PIPES ACROSS FOOTPATH SHALL BE SEWER GRADE UPVC

RECTANGULAR HOLLOW SECTIONS ACROSS FOOTPATH SHALL BE HOT DIP GALVANISED RHS

CONVERT 100mm DIAMETER PIPES WITHIN THE PROPERTY TO A 200x100x6mm GALVANISED RHS.

CONNECTIONS TO KERB ACROSS TO THE FOOTPATH TO BE AT A MAXIMUM OF 60 DEGREES TO THE KERB LINE.



**DETAIL 4**  
KERB CONNECTION  
SCALE 1:10