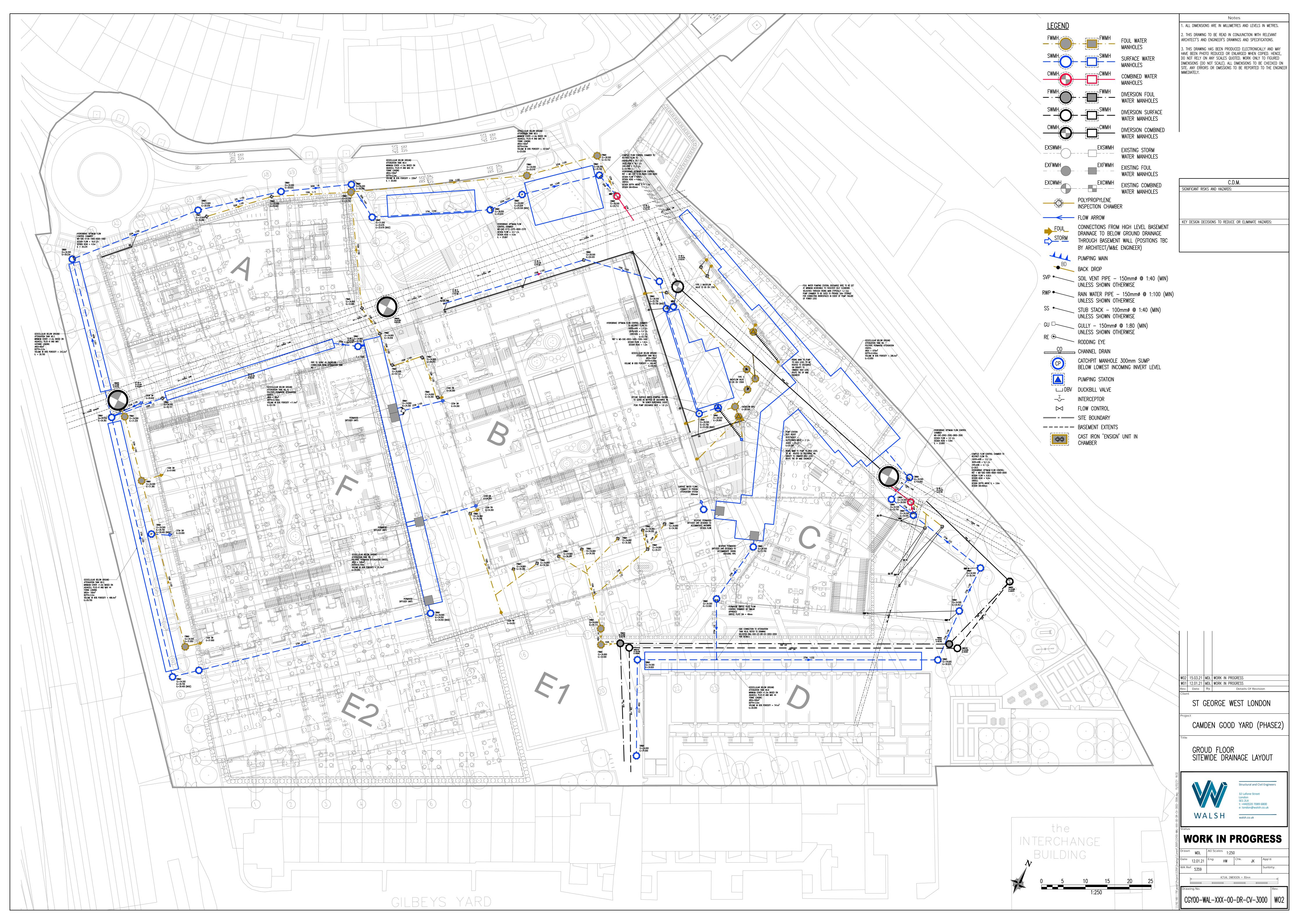
#### Drainage Strategy (Detailed Part)





### Appendix A Sitewide Drainage Drawings



## PIPES AND PIPE BEDDING DETAILS FOR HARD & SOFT LANDSCAPING AREAS

LOCATION						
COVER (DEPTH TO CROWN)	TRAFFICKED AREAS	PEDESTRIAN AREAS	UNDER BUILDING			
< 1200mm	Z1	Z1	Z2			
> 1200mm	S	S	Z2			

### SUGGESTED BEDDING CLASSES

(NOTE: THE ABOVE SHOULD BE USED FOR TENDER PURPOSES ONLY. REFER TO SCHEDULES FOR ACTUAL REQUIREMENTS BUT WHERE SCHEDULE REQUIREMENTS DIFFER FROM ABOVE CHECK WITH ENGINEERS. THE FOLLOWING PIPE TYPES ARE PERMITTED

- VITRIFIED CLAY (REFER TO CIVIL SPECIFICATION CLAUSE 90-10-20/434) DUCTILE/CAST IRON (REFER TO CIVIL SPECIFICATION CLAUSE 90-10-20/420)
- HDPE (SURFACE WATER ONLY, REFER TO CIVIL SPECIFICATION CLAUSE 90-10-20/430)

THE USE OF PLAIN & STRUCTURED WALL uPVC PIPES IS NOT PERMITTED. ASBESTOS CONTENT OR PITCH FIBRE PIPES ARE NOT PERMITTED.

CLASS RC1 CONCRETE SURROUND

(PIPE LOWER THAN BOTTOM REINFORCEMENT)

- MIN 600mm

@ 300mm CRS

DETAILS)

- 30 x 1.5mm GMS STRAPS

-GAS OR WATERPROOF MEMBRANE IF

REQUIRED (REFER TO ARCHITECTS

### NOTES FOR PIPES & PIPE BEDDING:

1. PIPES PASSING THROUGH WALLS OR BENEATH FOUNDATIONS (SPREAD ONLY) TO HAVE R.C BRIDGE LINTELS OVER & PIPE SURROUNDED IN FLEXIBLE MATERIAL

2. CONCRETE SURROUND TO SEWER TO BE FLEXIBLY JOINTED AT EVERY JOINT NOTWITHSTANDING THE ABOVE, MAXIMUM SPACING OF FLEXIBLE JOINTS TO BE 3.0m.

3. TO MAINTAIN THE FLEXIBILITY OF CONCRETE SURROUNDED SEWERS THE CONCRETE SHALL BE KEPT CLEAR OF THE JOINT BY PLACING "FLEXCELL" OR EQUIVALENT APPROVED MATERIAL. FOR PIPES >300mmø, PLACE 2NO. LAYERS OF 18mm THICK THE SPIGOT OF EACH PIPE IN SUCH A MANNER AS TO ALLOW THE JOINT FULL AXIAL AND ANGULAR MOVEMENT. FOR PIPES <300mmø PLACE 1NO. LAYER 18mm THICK "FLEXCELL" OR EQUAL APPROVED. THE FLEXCELL SHALL BE PLACED IN A VERTICAL POSITION AND COVER THE CROSS SECTIONAL AREA OF THE CONCRETE BED & SURROUND TO EACH JOINT.

3mm OVER BUILD—

3mm OVER BUILD—

(+2mm TOLERANCE)

CHANNEL-

150

150

CHANNEL DETAIL 2 (CD2)

100 100 100

LAND DRAIN DETAIL

CHANNEL DETAIL 1 (CD1)

SCALE 1:10

150

150

GRAVEL/SOIL TO

SPECIFICATION

TYPE 'B' FILTER

SHW SERIES 500

DRAIN MATERIAL TO

100ø PERFORATED

LANDSCAPE ARCHITECT'S

FILTER GEOTEXTILE TERRAM INBITEX OR SIMILAR AND APPROVED, ROOT PROTECTION REQUIREMENTS TBC

BY LANDSCAPE ARCHITECT

-10mm. FALL WHEN

LAID AGAINST KERB

(+2mm TOLERANCE)

CHANNEL-

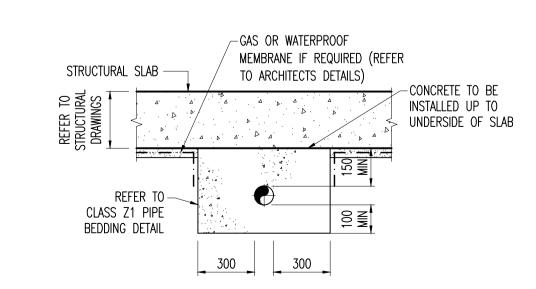
4. INCREASE BY 100mm FOR IF TRENCH BOTTOM IS UNEVEN. FOR ROCK OR MIXED SOILS DEPTH OF GRANULAR BEDDING MATERIAL TO BE BC/4 MINIMUM 200mm.

5. BACKFILL MATERIAL TO CONFORM TO DRAINAGE SPECIFICATIONS.

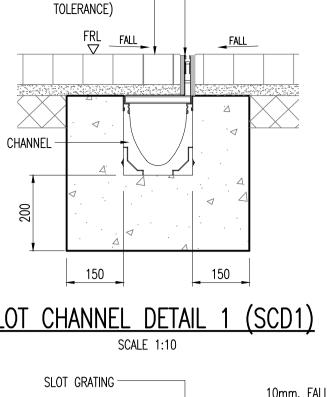
6. FOR COST PLANING PURPOSES, ALLOW FOR ALL PIPES UNDER BUILDINGS TO HAVE CLASS Z2 CONCRETE SURROUND. THIS BED CLASS MAY BE REVIEWED IN DETAIL BY THE ENGINEER AT A LATER STAGE AND MAY BE AMENDED ONCE THE FOLLOWING CRITERIA HAVE BEEN CONSIDERED.

 BUILDING FOUNDATIONS ARE NOT SUBJECT TO HEAVE OR SETTLEMENT. NO ORGANIC MATERIAL EXISTS DIRECTLY BELOW OR AT DEPTH OF PIPEWORK.

GROUND WATER TABLE WILL NOT AFFECT PIPEWORK.



PIPE BEDDING DETAILS UNDER STRUCTURAL SLAB



SLOT GRATING

3mm OVER BUILD (+2mm-

SLOT CHANNEL DETAIL 1 (SCD1)

10mm. FALL WHEN —LAID AGAINST KERB 3mm OVER BUILD (+2mm-TOLERANCE) CHANNEL -NOTE: WHERE KERB IS CONSTRUCTED AGAINST CHANNEL ENSURE GAP IS FULLY FILLED WITH MORTAR (MIN COMPRESSIVE STRENGTH 20n/mm<sup>2</sup>) OR GROUT AND KERB BACKING MEETS SPECIFICATION FOR BOTH KERB AND CHANNEL. 150

SLOT CHANNEL DETAIL 2 (SCD2)

SECTION B-B

TABLE 2: CONCRETE GRADES & CONSISTENCY CLASS

DC-2

FND2

(S1)

(S1)

DC-1

GEN1/ST2

GEN1/ST2

CONCRETE FOR KERB/CHANNEL/EDGING

FOUNDATIONS, RECESS AND HAUNCHING

CLASS Z1/Z2 SURROUND/RODDING POINT

SURROUND

**(4**)

(5)



1. SURFACE CHANNEL SYSTEM TO COMPRISE REINFORCED GALVANISED STEEL FRAME & GRATING.

2. FRAME AND GRATING TO BE DUCTILE IRON LOAD CLASS PER TABLE 1 REFER TO GULLY SCHEDULE.

3. CHANNEL TO HAVE 0.6% IN-BUILT GRADIENT, WHERE REQUIRED.

4. CONCRETE SURROUND, AS INDICATED, TO BE 150mm MIN. CONCRETE STANDARD TO TABLE 2

5. CHANNEL TO BE LAID IN STRICT ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS AND SPECIFICATIONS.

6. INSITU BED AND SURROUND TO BE LAID IN ONE OPERATION. PLACE DOWEL BARS, AS INDICATED, BETWEEN EACH LAYER. CONCRETE IS TO BE SCABBLED AND FREE FROM DEBRIS WHEN PLACING CONCRETE IN SUBSEQUENT OPERATIONS.

7. WEARING COURSE TO BE HAND LAID AND COMPACTED WHEN LAYING ADJACENT TO KERBS IN ACCORDANCE WITH THE SPECIFICATIONS. CONCRETE TO BE CLEANED FREE FROM DEBRIS AND PRIMED PRIOR TO LAYING BITUMINOUS MATERIAL.

8. THE CONTRACTOR IS TO PROVIDE PROTECTION TO CHANNEL AGAINST DAMAGE FROM CONSTRUCTION TRAFFIC UPTO AND INCLUDING COMPLETION OF WEARING COURSE.

9. MINIMUM 3mm, MAXIMUM 5mm OVER BUILD TO THE CHANNEL PERMITTED.

SECTION C-C

-KERB LINE

ROAD AND YARD GULLY DETAIL

DC-4

(S1)

FND4

(S1)

(S1)

FND4

(S3)

DC-5

ASK ENGINEER

ASK ENGINEER

ASK ENGINEER

ASK ENGINEER

DESIGN CHEMICAL CLASS

DC-3

(S1)

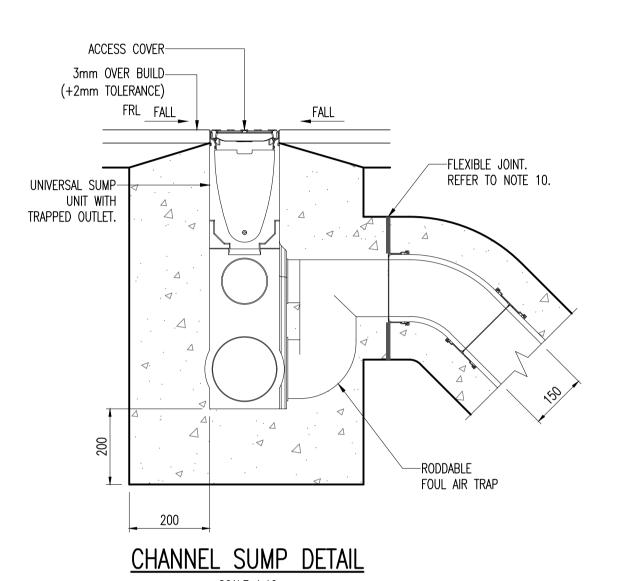
(S1)

(S1)

FND3

(S3)

10. IN AREAS OF CONCRETE HARDSTANDING TO MAINTAIN FLEXIBILITY OF THE CHANNELS, JOINTS SHALL BE PROVIDED COINCIDENT WITH THE JOINT IN THE SLAB. JOINTS SHALL COMPRISE 2 No. LAYERS OF 18mm. THICK "FLEXCELL" SEALED WITH "COLDPOR 200" OR



### NOTES FOR ROAD AND YARD GULLY

1. DETAILS ARE NOT APPLICABLE FOR SEWERS OFFERED FOR ADOPTION.

2. GULLY GRATINGS AND FRAMES

A) TYPE AND LOCATION AS SHOWN IN TABLE 1. B) ALL GRATINGS AND FRAMES TO BE BEDDED IN 1:3 MORTAR.

3. REGULATING BRICKWORK

A) ALL BRICKWORK IS TO BE CLASS B ENGINEERING BRICKWORK AND COMPLY WITH THE LATEST EDITION OF BS EN772 BEDDED ON 1:3 MORTAR. B) MINIMUM 1, MAXIMUM 3 COURSES.

4) GULLY POTS

A) POTS TO ROAD GULLIES TO BE 750mmDPx450mm DIA (900mmDPx450mm DIA IN ADOPTED ROADS). POTS TO YARD GULLIES TO

BE 600mmDPx300mm DIA. B) ALL GULLY POTS TO BE TRAPPED AND CONFORMING TO BS 5911-6 (ROAD & YARD) OR BS EN295 (YARD ONLY) AND SPECIFICATION. C) WHERE NEW GULLIES ARE ADJACENT TO EXISTING KERBS, THE KERBS SHALL BE TAKEN UP AND REINSTATED AFTER INSTALLATION OF THE GULLY

150mm THK. INSITU BED AND SURROUND TO BE CONCRETE GRADE PER

6) CONNECTIONS TO MAINTAIN FLEXIBILITY OF GULLY CONNECTIONS THE CONCRETE SHALL BE KEPT CLEAR OF JOINTS BY PLACING 2No. LAYERS OF 18mm THICK "FLEXCELL" OR SIMILAR APPROVED MATERIAL: 1No. LAYER ON SOCKET AND 1No. LAYER ON THE SPIGOT OF EACH PIPE IN SUCH A MANNER AS TO ALLOW THE JOINT FULL AXIAL & ANGULAR MOVEMENT. ALL LATERAL CONNECTIONS TO BE SURROUNDED IN 150mm CONCRETE GRADE PER TABLE 2.

CONCRETE GRADE BLINDING PER TABLE 2 50mm THK. TO BE PROVIDED WHERE NECESSARY.

8) BENCHING A) STEP BENCHING TO BE PROVIDED BETWEEN GULLY POT AND FRAME SUCH THAT IT SHEDS WATER INTO GULLY POT.

TABLE 1						
		GULLY GR	ATING & FRAME TYPES	CGY00-WAL		
CLASS	BS CODE	MATERIAL	LOCATION			
B125	B.S.EN124:1994	DUCTILE IRON	FOR USE IN CAR PARKS AND PEDESTRIAN AREAS WHERE OCCASIONAL VEHICULAR ACCESS IS LIKELY	210315 drainage\		
C250	B.S.EN124:1994	DUCTILE IRON	FOR USE IN AREAS WHERE NOT EXTENDING MORE THAN 500mm FROM THE KERB FACE INTO THE HIGHWAY.			
D400	B.S.EN124:1994	DUCTILE IRON	FOR USE IN AREAS WHERE CARS AND LORRIES HAVE ACCESS, INCLUDING CARRIAGEWAYS. HARD SHOULDERS AND PEDESTRIAN AREAS.	5359\Drawings\Outgoing\		

B) GRANOLITHIC BENCHING TO BE 50mm THK.

NOTE: WHERE A PROJECT SPECIFIC SCHEDULE PROVIDED THIS SUPERCEDES THE ABOVE TABLE

1 15.03.21 MDL FIRST ISSUE Date By Details Of Revision

ST GEORGE WEST LONDON

Notes

. ALL DIMENSIONS ARE IN MILLIMETRES AND LEVELS IN METRES.

. THIS DRAWING TO BE READ IN CONJUNCTION WITH RELEVANT

3. THIS DRAWING HAS BEEN PRODUCED ELECTRONICALLY AND MAY

HAVE BEEN PHOTO REDUCED OR ENLARGED WHEN COPIED. HENCE, DO NOT RELY ON ANY SCALES QUOTED. WORK ONLY TO FIGURED

DIMENSIONS (DO NOT SCALE). ALL DIMENSIONS TO BE CHECKED ON SITE. ANY ERRORS OR OMISSIONS TO BE REPORTED TO THE ENGINEER

ARCHITECT'S AND ENGINEER'S DRAWINGS AND SPECIFICATIONS.

IMMEDIATELY.

CAMDEN GOODS YARDS (PHASE 2 )

TYPICAL DRAINAGE DETAILS SHEET 1 OF 3



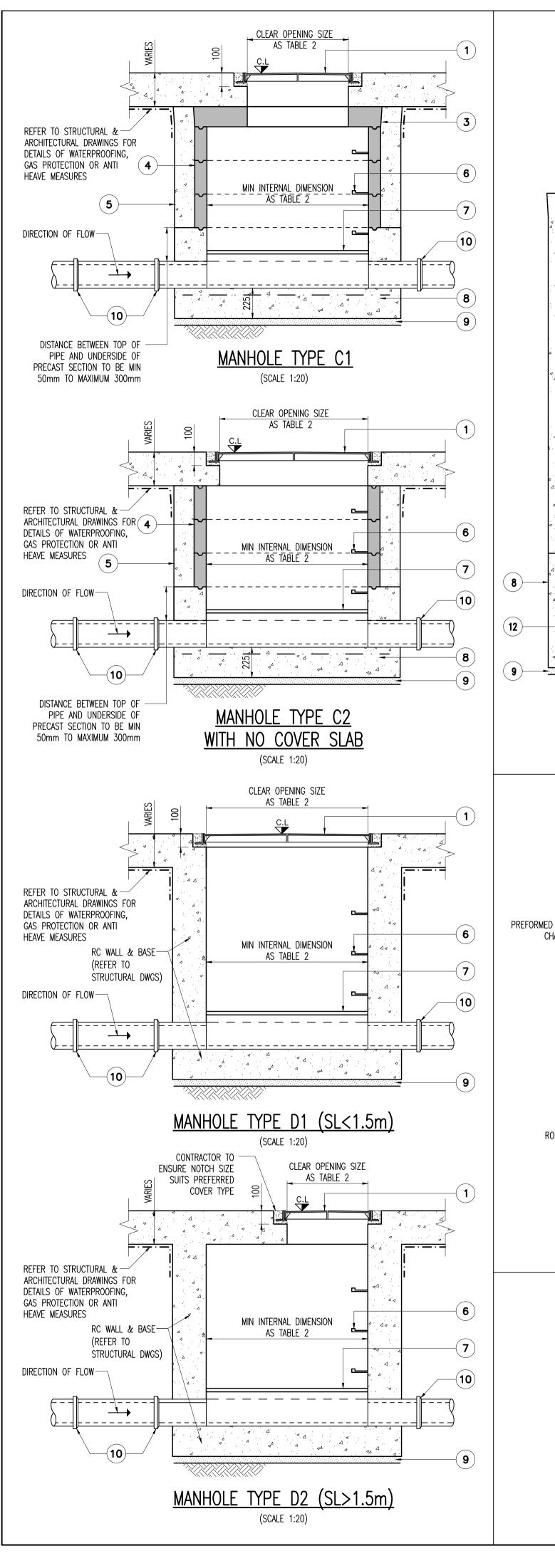
# **PRELIMINARY**

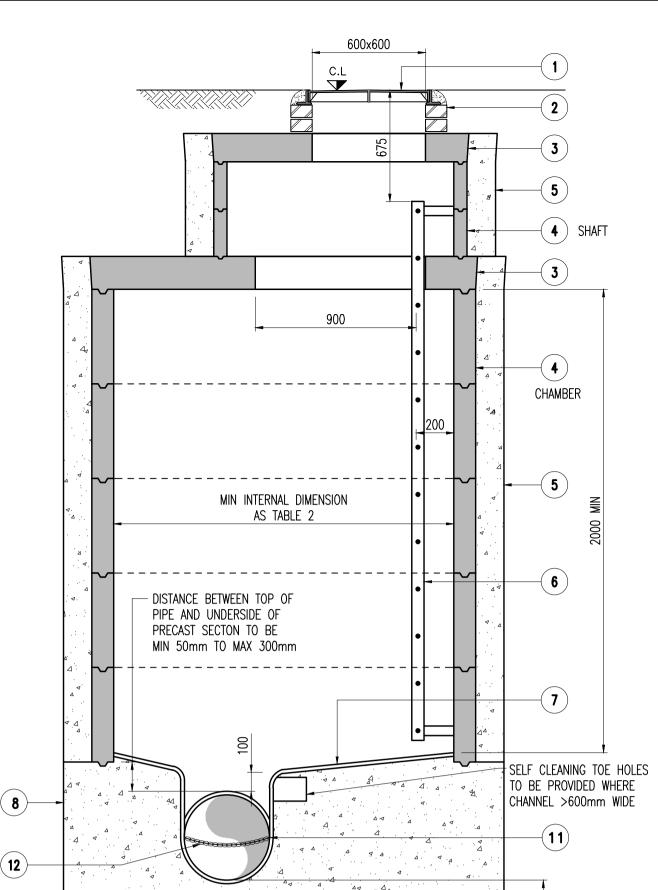
Date 10.03.21 Eng. HW Chk. HW App'd.  WA Ref. 5359 Suitbity.	Drawn  Date	MDL	A1 Scal	es AS SI	HOWN		
WA Ref. 5359 Suitblty.		10.03.21	Eng.	HW	Chk.	HW	App'd.
	WA Ref	5359					Suitblty.

ACTUAL DIMENSION = 80mm 

CGY00-WAL-XXX-ZZ-DR-CV-3200

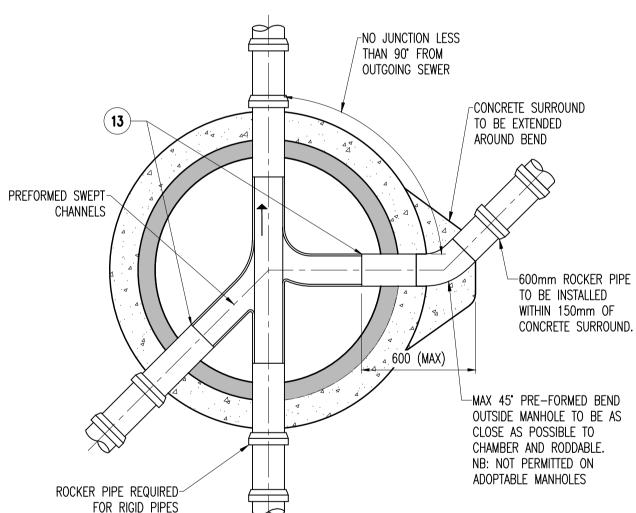
CLASS Z2 CONCRETE SURROUND CONCRETE SURROUND TO GULLIES AND GEN1/ST2 FND2 MANHOLES (EXCLUDING TYPES D1 AND D2) (S1) GEN3 FND2 CONCRETE TO MANHOLE BASES (S3) (S3) CONCRETE TO TYPE D1 AND D2 MANHOLES REFER TO STRUCTURAL DRAWINGS



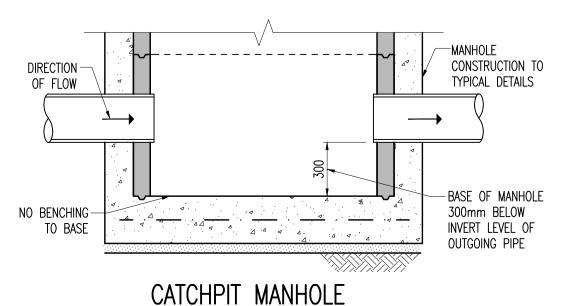


MANHOLE TYPE A FOR USE WHERE COVER TO PIPE SOFFIT IS BETWEEN 3.000 - 6.000m (SCALE 1:20)

SECTIONAL ELEVATION



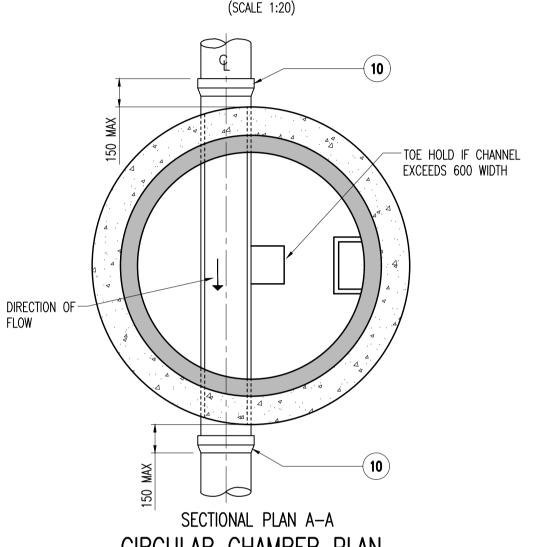
TYPICAL ARRANGEMENT OF PIPE JUNCTIONS WITHIN MANHOLES (SCALE 1:20)



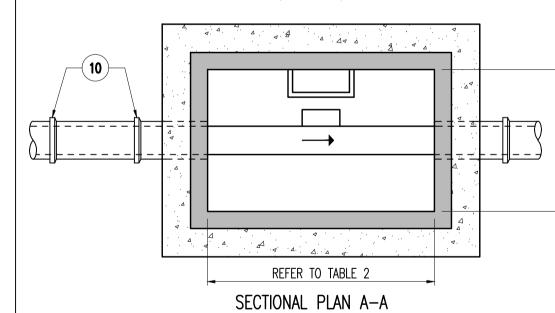
(SCALE 1:20)

AS TABLE 2 DISTANCE BETWEEN TOP OF PIPE AND UNDERSIDE OF PRECAST SECTON TO BE MIN 50mm TO MAX 300mm MIN INTERNAL DIMENSION AS TABLE 2 -----SECTIONAL ELEVATION

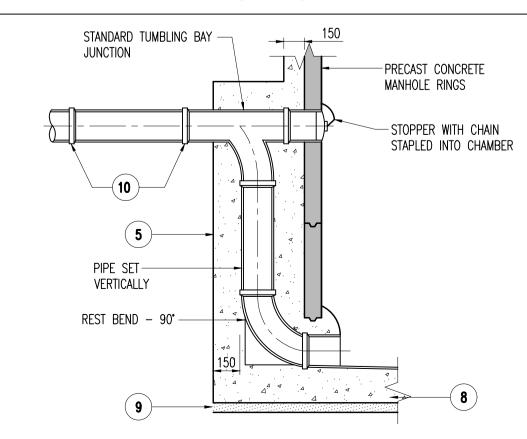
FOR USE WHERE COVER TO PIPE SOFFIT IS LESS THAN 3.000m



CIRCULAR CHAMBER PLAN FOR USE WHERE COVER TO PIPE SOFFIT IS LESS THAN 3.00m (SCALE 1:20)



RECTANGULAR CHAMBER PLAN FOR USE WHERE COVER TO PIPE SOFFIT IS LESS THAN 3.00M (SCALE 1:20)



VERTICAL BACKDROP DETAIL NOT TO BE USED ON MAIN RUN OF ADOPTED DRAINS UNLESS APPROVED BY WATER COMPANY

(NOT TO SCALE)

1. MANHOLE COVERS AND FRAMES

MANHOLE COVERS AND FRAMES TO COMPLY TO BS EN124. REFER TO MANHOLE SCHEDULE FOR COVER REFERENCE.

MANHOLES TO HAVE CLEAR OPENINGS AS SHOWN ON TABLE 2.

MANHOLE COVER AND FRAME TO BE BEDDED AND SURROUNDED IN 1:3 MORTAR. IN TRAFFICKED AREAS AND VERGES ADJACENT TO ROADS USE CLASS D400 HEAVY DUTY COVERS UNLESS NOTED OTHERWISE. IN CAR PARKS AND VERGES SUBJECT TO SLOW MOVING COMMERCIAL VEHICLES USE CLASS B125 MEDIUM DUTY

COVERS UNLESS NOTED OTHERWISE. FOR AREAS INACCESSIBLE TO VEHICULAR TRAFFIC USE CLASS A15 LIGHT DUTY COVERS UNLESS NOTED OTHERWISE.

IN BLOCK PAVED AREAS MANHOLE COVER AND FRAME ASSEMBLY TO BE RECESSED UNLESS NOTED OTHERWISE. E) ALL INTERNAL MANHOLES ARE TO HAVE DOUBLE SEALED, MECHANICALLY FIXED COVERS. ALL EXTERNAL MANHOLES TO HAVE SINGLE SEAL COVERS UNLESS NOTED OTHERWISE.

ALL MANHOLE COVERS TO HAVE CLOSED KEYWAYS.

MANHOLE COVERS TO REFLECT HARDSTANDING/SOFT LANDSCAPING PROFILE

2. BRICKWORK REGULATING COURSES

A) CLASS B ENGINEERING BRICKWORK TO BS 3921

REGULATING COURSES (MIN 2, MAX 4) TO BE BEDDED IN 1:3 MORTAR. C) FAIR FACED FINISH INTERNALLY.

3. REINFORCED CHAMBER COVER/REDUCING SLAB/LANDING SLAB A) HEAVY DUTY REINFORCED CONCRETE COVER SLAB TO BS 5911 BEDDED ON 1:3 MORTAR OR MASTIC SEALANT (TOKSTRIP BY WINN & COALES (DENSO) LTD,

OR EQUAL APPROVED). B) REFER TO TABLE 1. BELOW FOR MINIMUM SLAB THICKNE

_					
<u>B</u>	Ţ	ABLE	1		
	CHAMBER (mm)	COVER	SLAB	THICKNESS	(n
ESS.	900 DIA 1050 DIA 1200 DIA 1350 DIA 1500 DIA 1800 DIA 2100 DIA 2400 DIA 2700 DIA 1200 X 750			135 150 150 150 175 175 180 180 205 150	

4. PRECAST CONCRETE CHAMBER/SHAFT

CIRCULAR & RECTANGULAR SECTIONS TO BS 5911

ALL SECTIONS TO BE JOINTED SHALL BE MADE WATERTIGHT WITH AN AN APPROVED BITUMINOUS SEALANT (TOKSTRIP BY WINN & COALES (DENSO) LTD, OR EQUAL APPROVED.

UNLESS NOTED OTHERWISE REFER TO TABLE 2 FOR CHAMBER SIZES.

- ONLLSS NOTED	OTTLINMISE INCIDENT TO	TABLE 2 TON OTHER						
TABLE 2: MINIMUM MANHOLE OPENING SIZES (mm)								
DEPTH TO SOFFIT	DN LARGEST PIPE IN	MINIMUM	INTERNAL DIMENSIONS	MIN. CLEAR OPENING SIZE				
FROM C.L.	MANHOLE/MEANS OF DESCENT INTO SHAFT	RECT. CIRCULAR DIAMETER		RECT.	CIRC. DIA.			
	150	750x675	1000ø	750x675	N/A			
<b>41500</b>	225	1200x675	1200ø	1200x675	N/A			
<1500 1500 >3000(A)	300 1200x750		1200ø	1200x675	N/A			
	>300	1800 x (DN+450)	LARGER OF 1800 OR (DN+450)	1200x675	N/A			
	225	1200x1000	1200ø	600x600(B)	600ø			
	300	1200x1075	1200ø	600x600(B)	600ø			
	375 to 450	1350x1225	1350ø	600x600(B)	600ø			
	>450	1800 x (DN+775)	LARGER OF 1800 OR (DN+775)	600x600(B)	600ø			
	STEPS	1050x800	1050ø	600x600(B)	600ø			
	LADDER	1200x800	1200ø	600x600(B)	600ø			
	WINCH	900x800	900ø	600x600(B)	600ø			

(A) MINIMUM HEIGHT OF CHAMBER IN SHAFTED MANHOLE 2000mm FROM BENCHING TO UNDERSIDE OF REDUCING SLAB.

(B) WHERE MANHOLE IS BEING ADOPTED SOME WATER COMPANIES e.g. SOUTHERN WATER, REQUIRE OPENING SIZE TO BE INCREASED TO 675x675mm.

5. CONCRETE SURROUND

A) CONCRETE TO BE 150mm THICK

CONCRETE GRADE TO BE PER TABLE 2 ON TYPICAL DRAINAGE DETAILS SHEET 1

6. STEP IRONS/LADDERS

GALVANISED WALLABLE STEP IRONS TO BS 1247:PART 1:1990

FIRST STEP IRON MAX 675mm FROM COVER LEVEL, THEREAFTER ALTERNATELY STAGGERED. MAXIMUM DISTANCE FROM BENCHING TO LAST RUNG TO BE 300mm VERTICALLY AND HORIZONTALLY 300mm.

WHERE DEPTH TO INVERT >2500mm PROVIDE LADDER IN PLACE OF STEP IRONS

GALVANISED MILD STEEL SOLID RUNG LADDERS TO BS EN 14396: 2004

LADDER TO BE CLASS A WITHOUT SAFETY HOOP. STRINGERS TO BE 65x10 FLAT SPACED @ 390c/c.

SINGLE RUNGS TO BE 20mm DIA SOLID AND SPACED @ 250c/c.

MAX DISTANCE FROM BENCHING TO LAST RUNG TO BE 250mm.

MIN 500mm, MAX 600mm FROM COVER LEVEL TO FIRST RUNG.

STEP IRONS NOT TO BE USED IN MANHOLES PROPOSED FOR ADOPTION BY SOUTHERN WATER.

7. GRANOLITHIC RENDER

50mm GRANOLITHIC RENDER TO SURFACE OF BENCHING WITH 25mm RADIUS ROUNDINGS.

GRANO CONCRETE BENCHING TO BE BROUGHT UP TO A SMOOTH FACE NEATLY SHAPED AND FINISHED TO ALL BRANCH CONNECTIONS WHERE BENCHING IS <450mm WIDE SLOPE SHALL BE 1:10 ELSE 1:30

8. BASE AND BENCHING

CONCRETE TO PER TABLE 2 ON TYPICAL DRAINAGE DETAILS SHEET 1.

BASE OF MANHOLES IN TRAFFICKED AREAS AND VERGES ADJACENT TO TRAFFICKED AREAS SHALL BE REINFORCED WITH A393 MESH

REINFORCEMENT WITHIN TOP FACE OF BASE (COVER 50mm).

BEND CONVEYING MAIN SEWERS RUNS TO BE FORMED IN LONG RADIUS BENDS TO ASSIST FLOW WITHOUT RISK OF BLOCKAGE.

A) 50mm BLINDING TO BE PER CONCRETE DESIGN CHEMICAL CLASS TABLE.

10. FLEXIBLE JOINTS

A) FIRST FLEXIBLE JOINT TO BE 150mm FROM MANHOLE FACE.

SECOND FLEXIBLE JOINT TO BE MAX. 600mm FROM FIRST JOINT. FULL LENGTH FLEXIBLE JOINTED PIPES THEREAFTER

11. CHANNEL PIPES

A) PIPES IN MANHOLE TO BE LAID WITH SOFFITS LEVEL, UNLESS NOTED OTHERWISE.

ENTRY ANGLES TO MAIN CHANNEL. (X°).

ENTRY ANGLE CHANNEL SECTION X < 45 1/2 45 < X < 903/4 X > 903/4 + EXT. BEND.

C) CHANNELS TO BE FORMED WITH SHALLOW RADIUS BENDS TO AVOID ACCUMULATION OF DEBRIS

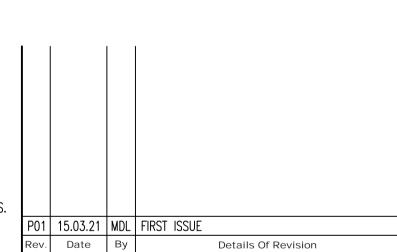
A) SAFETY CHAINS, COMPLYING WITH BS 6405:1985 - CLASS 2, CHAINS TO BE FIXED WITH M12 BOLTS.

13. MANHOLE BRANCHED CONNECTIONS.

A) ALL PIPE BRANCH INVERT LEVELS TO BE SET TO TABLE 3 EXCEPT WHERE CATCHPITS ARE USED

	TABLE 3						
MAIN	BRANCHØ (CONNECTION LEVEL ABOVE MAIN CHANNEL INVERT)						
RUNØ	100ø	150ø	225ø	300ø	375ø	450ø	525ø
100ø	50	N/A	N/A	N/A	N/A	N/A	N/A
150ø	75	75	N/A	N/A	N/A	N/A	N/A
225ø	125	75	0	N/A	N/A	N/A	N/A
300ø	200	150	75	0	N/A	N/A	N/A
375ø	275	225	150	75	0	N/A	N/A
450ø	350	300	225	150	75	0	N/A
525ø	425	375	250	225	150	75	0

NB: DIMENSIONS SHOWN IS STEP IN INVERT LEVEL WHERE BRANCH IS 'X'mm HIGHER THAN MAIN CHANNEL INVERT LEVEL.



Notes

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ARCHITECT'S AND ENGINEER'S DRAWINGS AND SPECIFICATIONS.

IMMEDIATELY.

ST.GEORGE WEST LONDON

CAMDEN GOODS YARD (PHASE 2)

TYPICAL DRAINAGE DETAILS SHEET 2 OF 3



Structural and Civil Engineers 32 Lafone Street SE1 2LX t: +44(0)20 7089 6800 e: london@walsh.co.uk walsh.co.uk

PRELIMINARY

A1 Scales AS SHOWN MDL 10.03.21 HW WA Ref. 5359

ACTUAL DIMENSION = 80mm 

CGY00-WAL-XXX-ZZ-DR-CV-3201