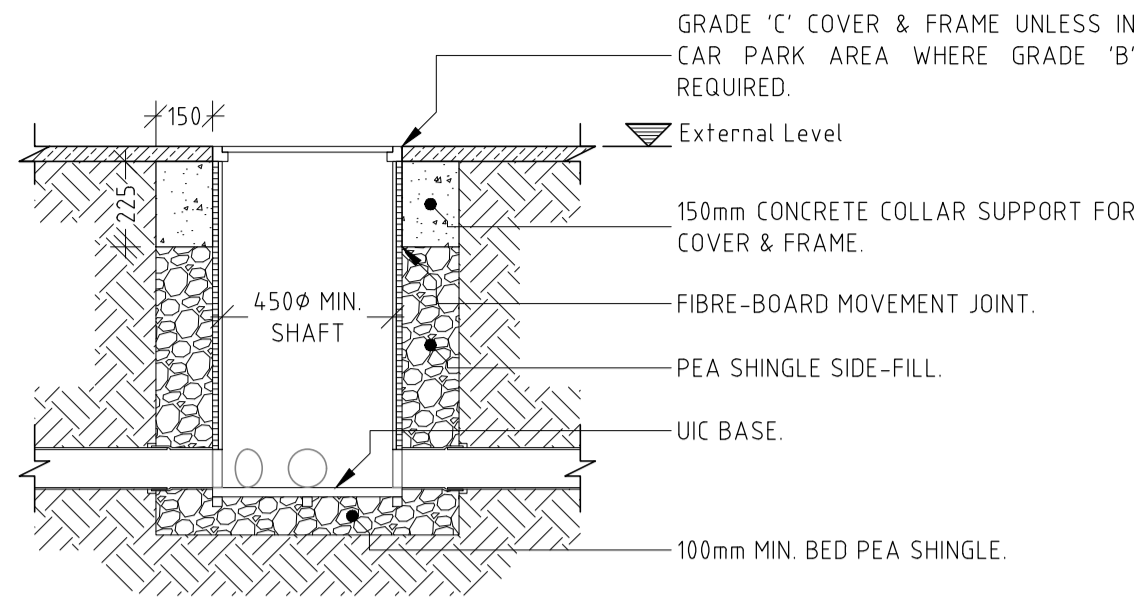
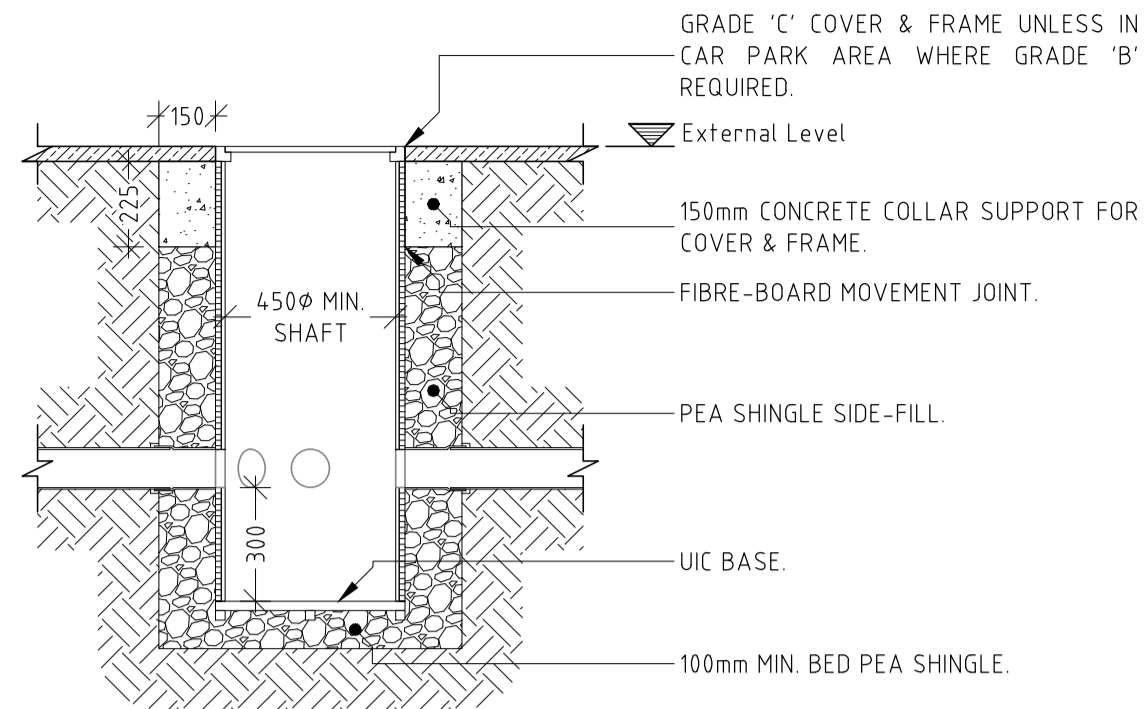


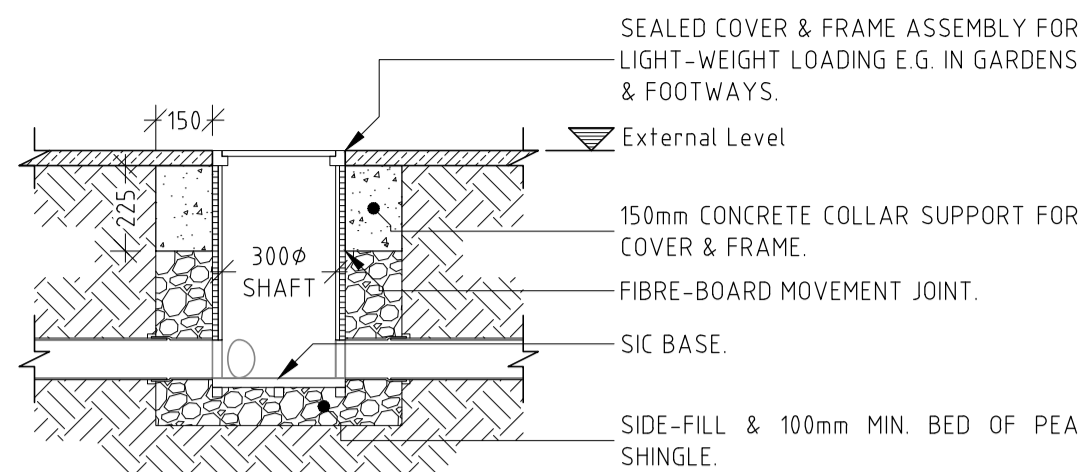
**UNIVERSAL INSPECTION CHAMBER (UIC) 0.6 - 1.2m DEEP**  
NOT TO SCALE



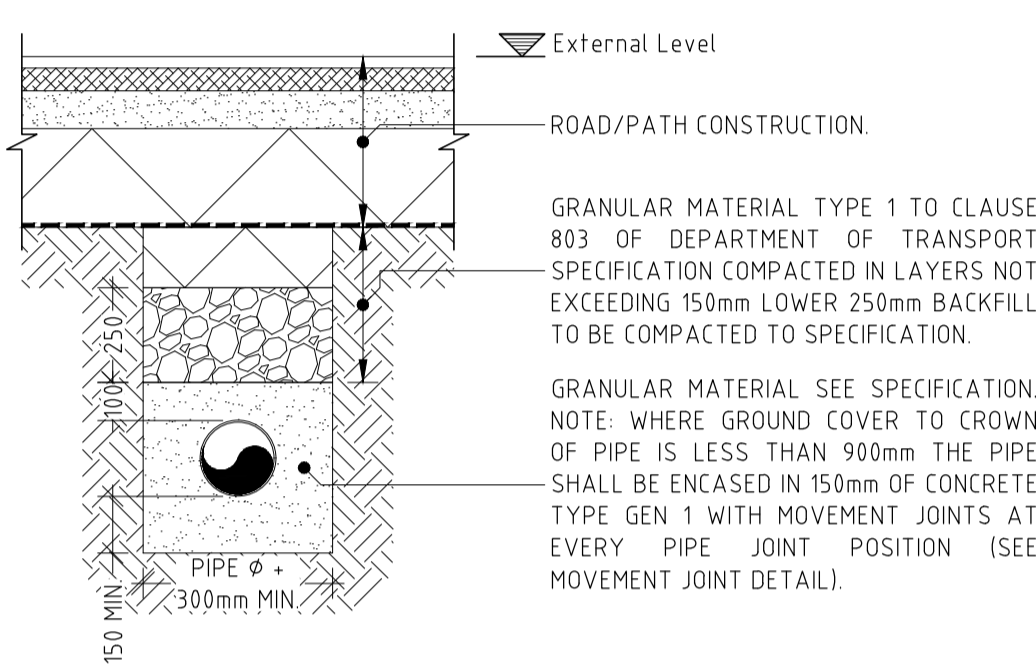
**UNIVERSAL INSPECTION CHAMBER (UIC) CATCH-PIT 0.6 - 1.2m DEEP**  
NOT TO SCALE



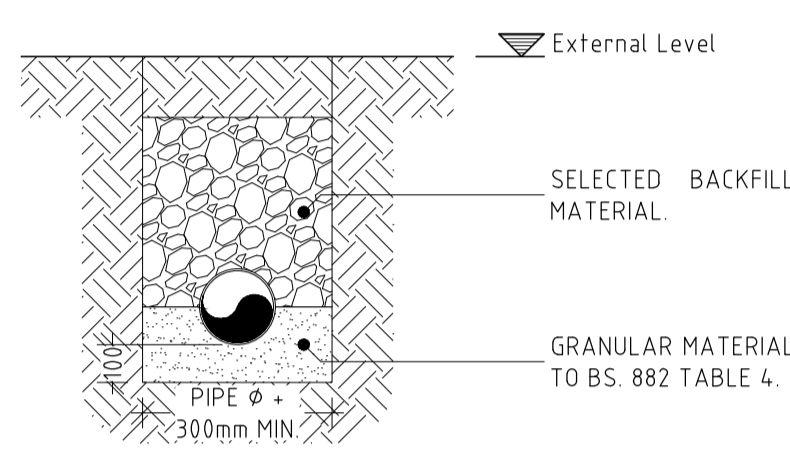
**SHALLOW INSPECTION CHAMBER (SIC) <0.6m DEEP**  
NOT TO SCALE



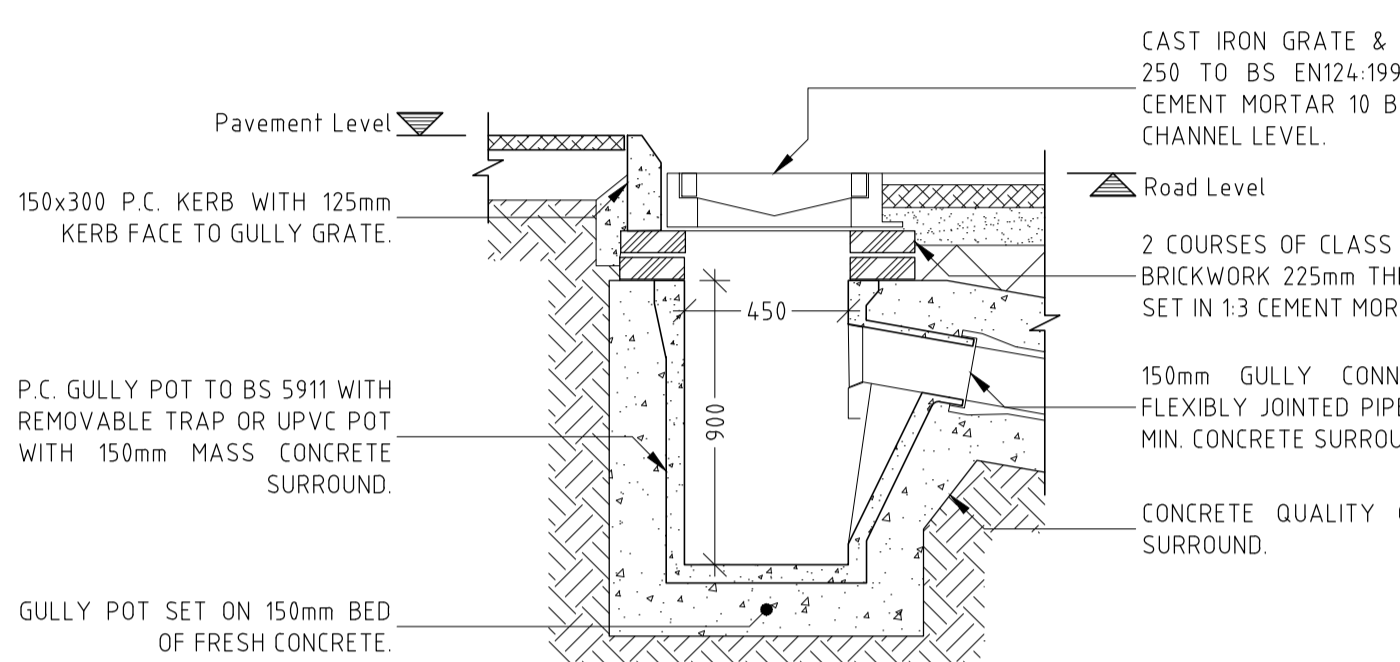
**BEDDING CONSTRUCTION FOR DRAINAGE UNDER ROADS, CARPARKS & PUBLIC FOOTWAYS**  
NOT TO SCALE



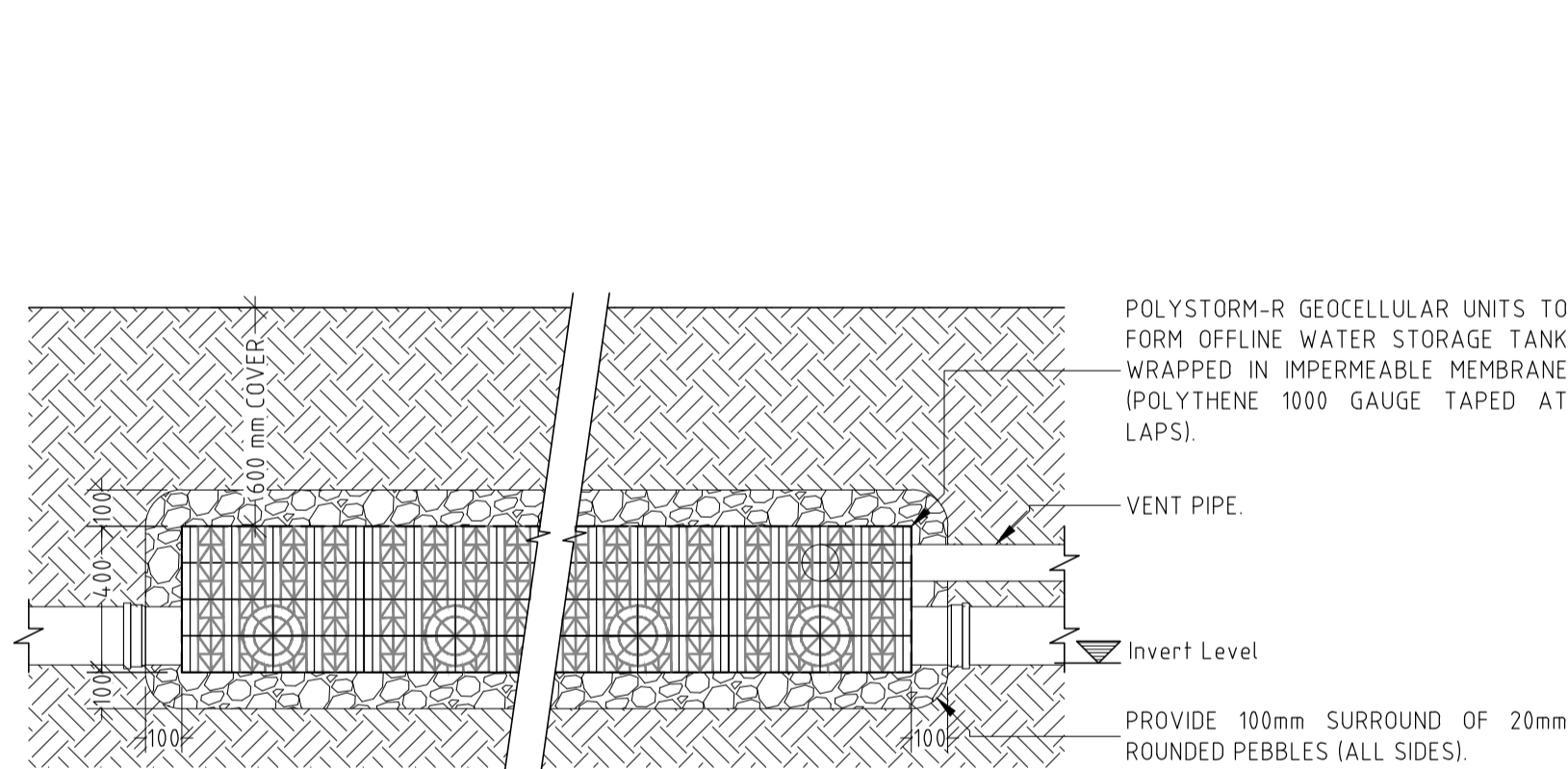
**BEDDING CONSTRUCTION FOR DRAINAGE UNDER LANDSCAPING**  
NOT TO SCALE



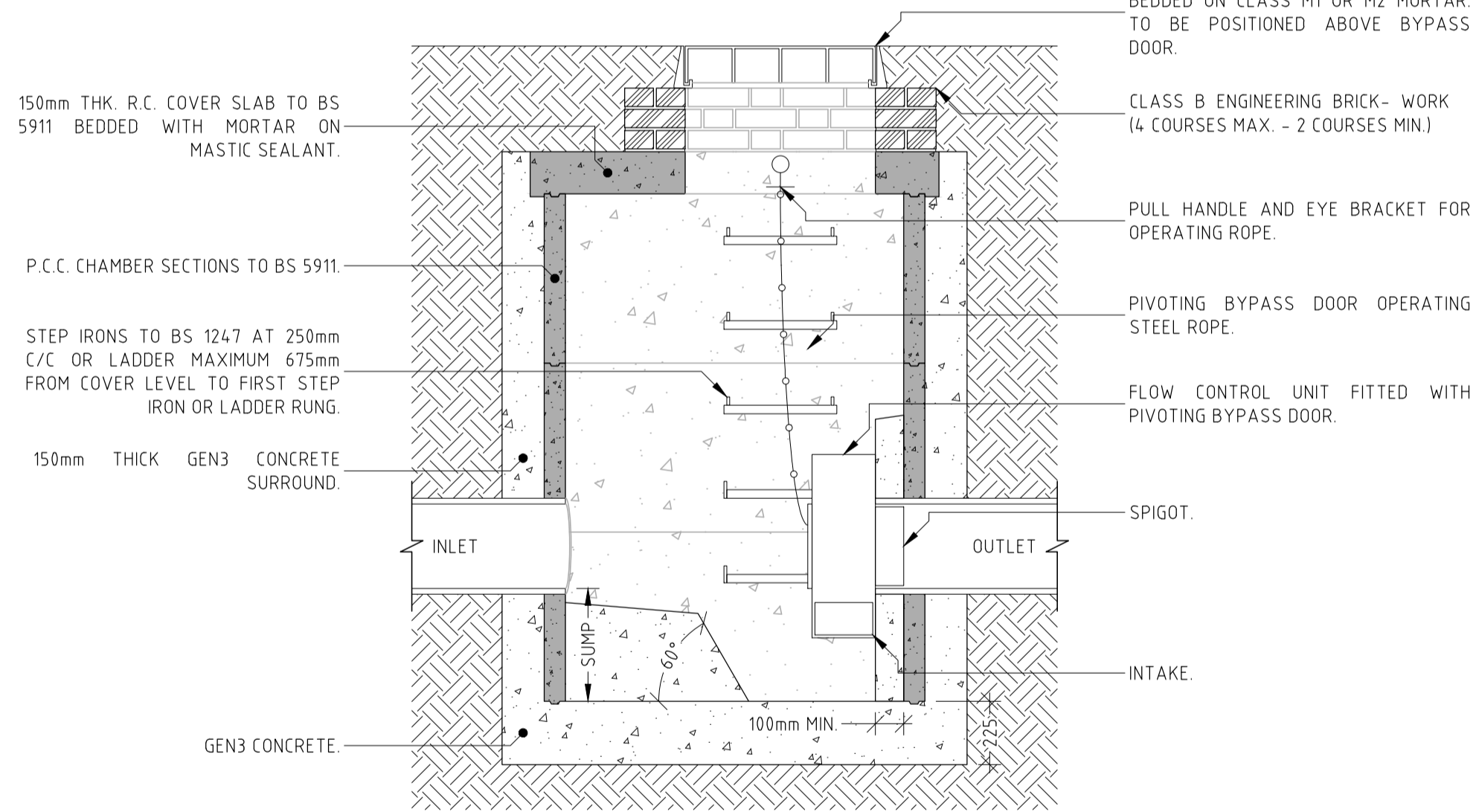
**TRAPPED ROAD GULLY - HEAVY DUTY GRATE**  
NOT TO SCALE



**TYPICAL GEOCELLULAR STORAGE TANK (SECTION)**  
NOT TO SCALE



**DETAIL 1: PRECAST CONCRETE MANHOLE WITH FLOW CONTROL UNIT (P.C.C. RING WITH F.C.U.) 1.2 - 3.0m DEEP**  
1:20 @ A1/140 @ A3



**MANHOLE SCHEDULE**

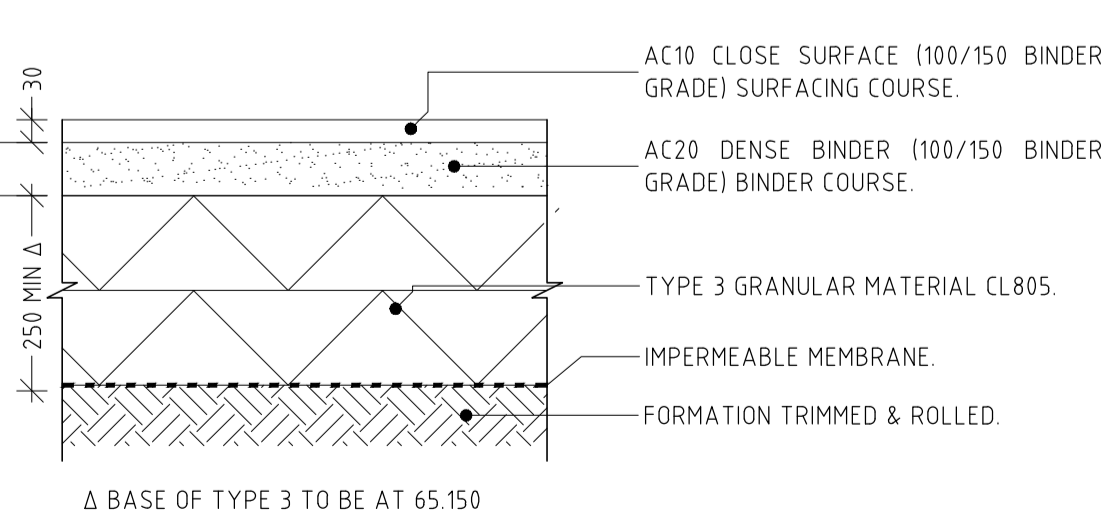
MANHOLE No.	APPROX. COVER LEVEL	INVERT LEVEL IN	INVERT LEVEL OUT	DEPTH (m)	PIPE SIZE OUT (mm)	GRADIENT OUT	TYPE/COMMENT		COVER
							SIZE/Ø	TYPE	
S1	65.50	64.03	63.95	1.55	300Ø	1:150	600	NEIC	350x350 Class B
S2	65.60	54.30	64.30	1.3	225Ø	1:150	1200	FCU PC	600Ø Class B
S3	65.50	64.50	64.50	1.0	150Ø	1:150	1200	FCU PC	600Ø Class B
S11	NOT	USED							
S12	65.60	64.80	64.80	1.0	150Ø	1:150	450	UIC SIL PIT	450Ø Class B
S13	65.70	65.10	64.10	0.80	225Ø	1:150	450	UIC SIL PIT	450Ø Class B
S14	65.70	65.00	65.00	0.90	300	1:300	600	UIC SIL PIT	600Ø Class B
S15	65.70	65.25	65.25	0.45	300	1:300	600	UIC	600Ø Class B
S21	65.50	64.43	64.43	1.07	300Øx2	150	1050	PC Ring	600Ø Class C
S22	65.50	64.53	64.51	0.99	300Øx2	150	1050	PC Ring	600Ø Class C
S23	65.50	64.68	64.6	0.9	300Ø	275	600	UIC PC	600Ø Class C
S24	65.50	64.85	65.85	0.75	150Ø	100	450	UIC	450Ø Class B
S25	65.60	65.00	65.00	0.6	150Ø	100	300	SIC	300Ø Class B

ANNOTATIONS		MANHOLE COVERS TO BS EN 124		
BD	DENOTES IF BACKDROP CONNECTION IS REQUIRED	CLASS A	LIGHT DUTY	PEDESTRIAN ONLY
SIC	SHALLOW INSPECTION CHAMBER	CLASS B	MEDIUM DUTY	LIGHT VEHICLES
UIC	UNIVERSAL INSPECTION CHAMBER	CLASS C	HEAVY DUTY	CARRIAGEWAY <0.5m FROM KERB
TRAD / P.C. RING	TRADITIONAL BRICK OR PRECAST CONCRETE CHAMBER CONSTRUCTION	CLASS D	HEAVY DUTY	CARRIAGEWAY & HARD SHOULDERS
NOTES	DENOTES COVER RECESSED FOR FINISHES			
	ALL SVPI/AAV LOCATIONS BY OTHERS			
	CONNECTIONS TO EXISTING RUNS TO USE PRE-FORMED CONNECTIONS			

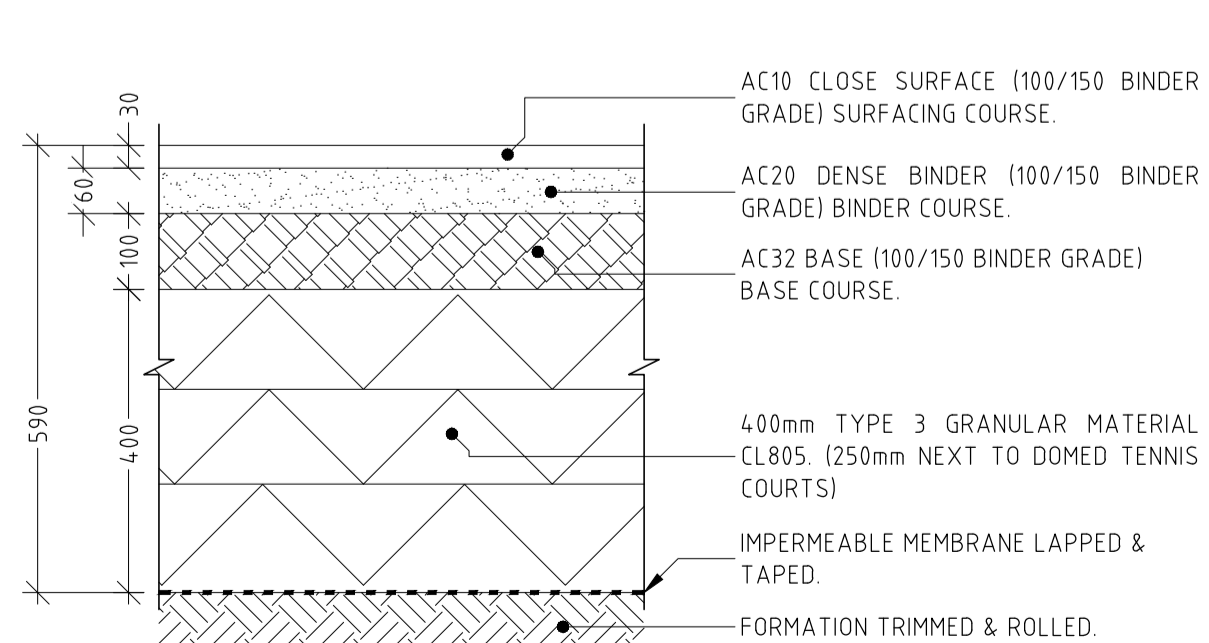
VORTEX FLOW CONTROL UNITS			
MANHOLE	MAX. FLOW	HEAD	HYDRO INTERNATIONAL REFERENCE
S2	4.0 l/s	0.80 m	SHE-0270-4000-0800-4000
S11	10 l/s	0.65 m	SHE-0150-1000-0650-1000
S3	10 l/s	0.65 m	SHE-0150-1000-0650-1000

VORTEX FLOW CONTROL UNITS ARE TO BE BY HYDRO<sup>®</sup> BRAKE BY HYDRO INTERNATIONAL LTD. WITH INTEGRAL BY-PASS AND FITTED TO A VERTICAL FACE IN CHAMBER WITH SUMP TO DETAIL. NO SUBSTITUTION WITHOUT RECALCULATION OF STORAGE VOLUMES TO SHOW COMPLIANCE WITH DESIGN.

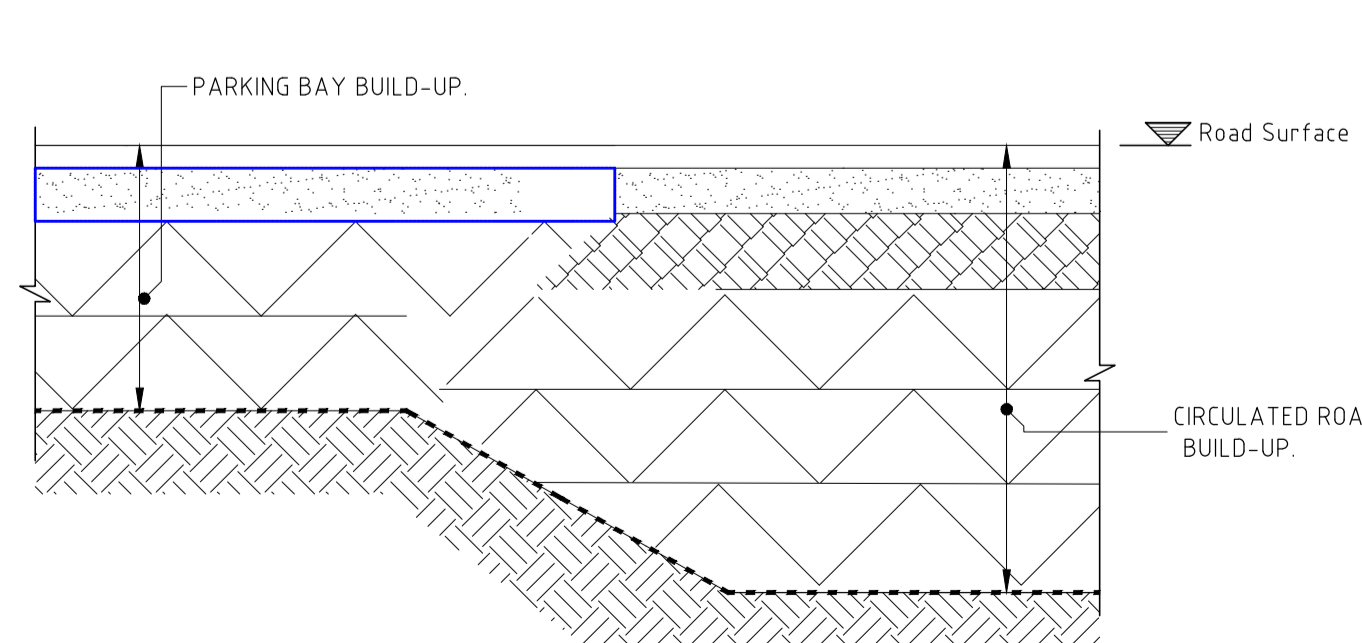
**SURFACE 1: OVER TANK PARKING BAY**  
1:10 @ A1/120 @ A3



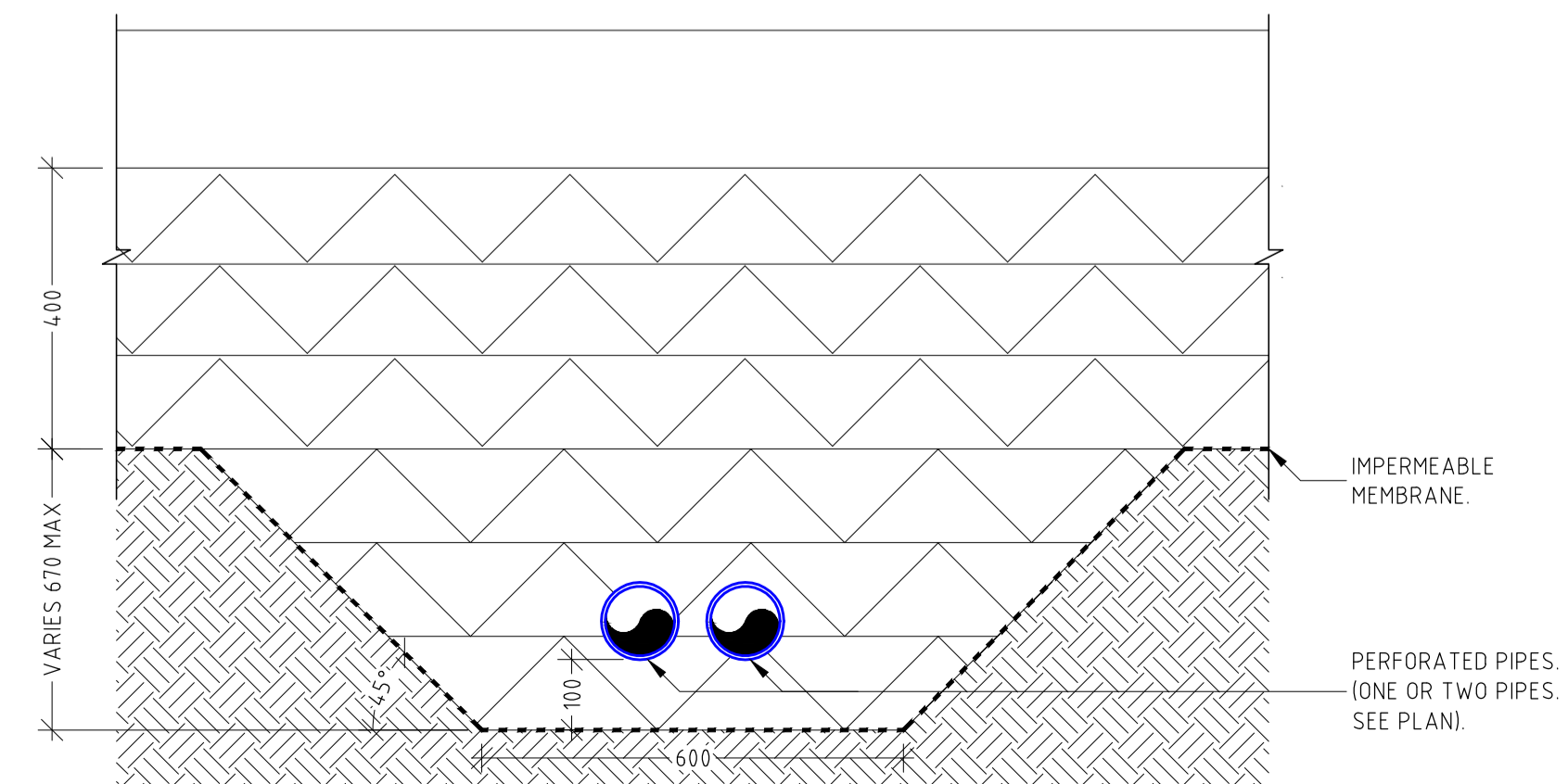
**SURFACE 2: ACCESS/CIRCULATION ROAD BUILD-UP**  
1:10 @ A1/120 @ A3



**PARKING BAY TO CIRCULATED ROAD DETAIL**  
1:10 @ A1/120 @ A3



**PERFORATED PIPE THROUGH TANKING DETAIL**  
1:10 @ A1/120 @ A3



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**NOT FOR CONSTRUCTION**

P3	Submission	NK	30/11/20
P1	Preliminary	TS	26/11/20
REV	DETAIL	Dr	DATE

Status: **PRELIMINARY**

Client: **DAVID LLOYD CLUBS**

Project: **Catalyst Bicester  
Wendlebury Road, Bicester**

Title: **Drainage Details  
Surface Build-ups & Details**

Project N°: **20110** Drawing N°: **D200** Rev: **P1**

Date: **Nov 2020**

Scale @A1: **As Noted**

Drawn: **TS**

Engineer: **NK**

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