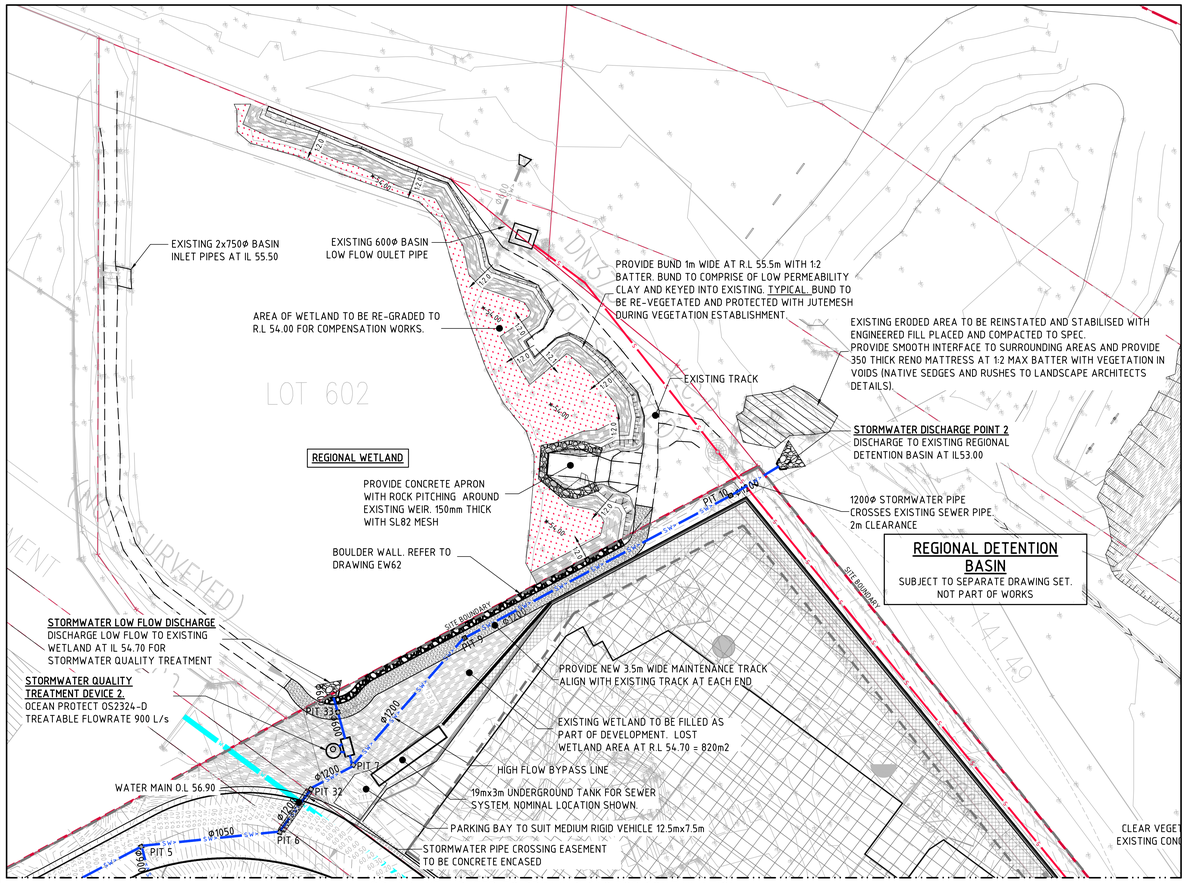
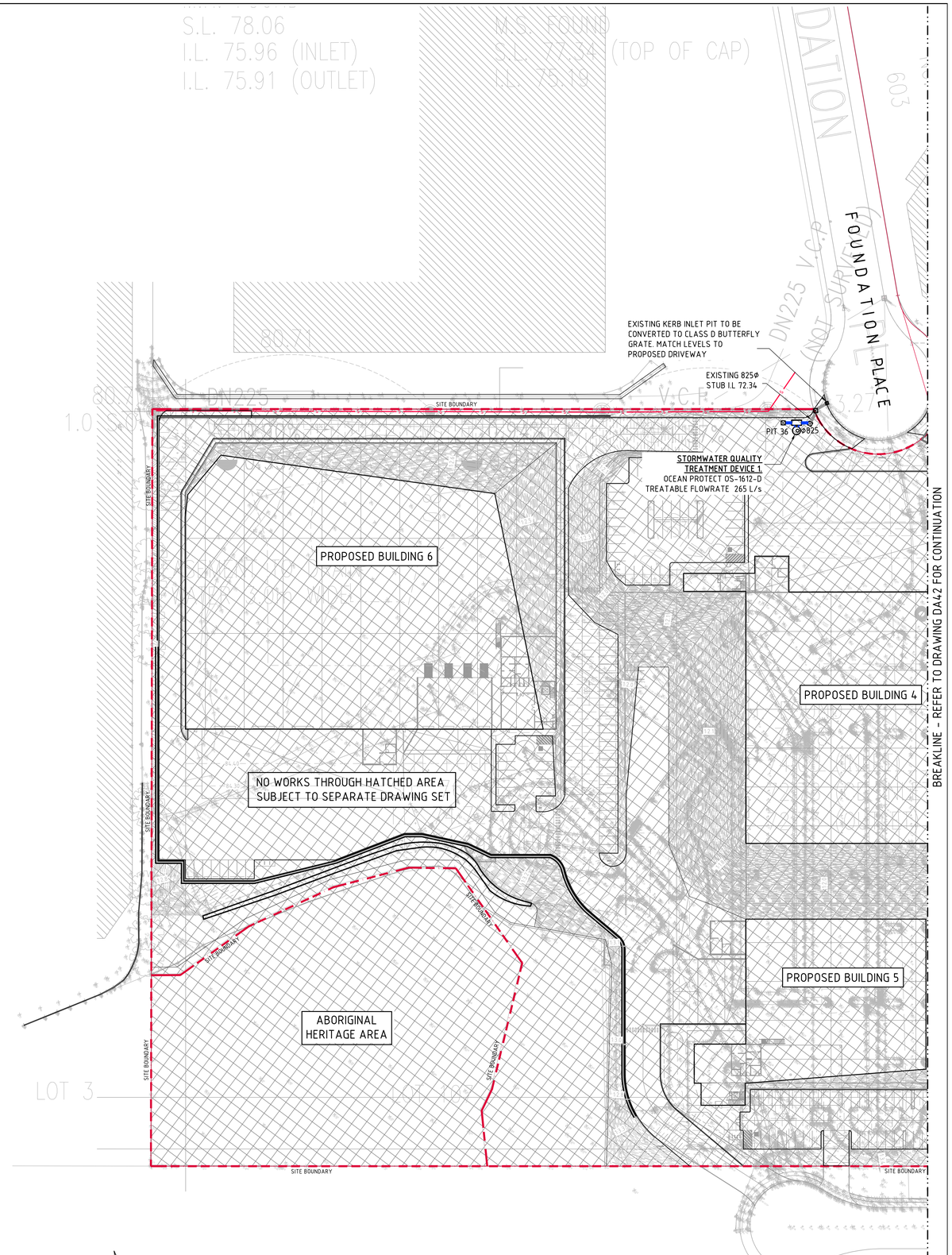


BREAKLINE - REFER TO DRAWING C42 FOR CONTINUATION



LEGEND:

LEVELS DATUM IS AHD.

EXISTING SITE LEVELS AND DETAILS BASED ON SURVEY INFORMATION PROVIDED BY LTS LOCKLEY DATED 16/01/20.

- SGGP, SINGLE GRATED GULLY PIT
- SJP, SEALED JUNCTION PIT
- KIP, KERB INLET PIT
- GD, GRATED DRAIN (300W x 225D UNO)
- SW> - PROPOSED DRAINAGE LINE
- EXISTING DRAINAGE LINE
- SS> - SUBSOIL LINE
- W - EXISTING SYDNEY WATER LINE
- S - EXISTING SEWER LINE
- OVERLAND FLOW DIRECTION
- 50.00 - FINISHED PAVEMENT CONTOUR (MAJOR) 0.5m INTERVALS
- 50.10 - FINISHED PAVEMENT CONTOUR (MINOR) 0.1m INTERVALS

STORMWATER DRAINAGE NOTES :

1. ALL STORMWATER WORKS TO BE COMPLETED IN ACCORDANCE WITH AUSTRALIAN STANDARD AS3500.3:2003 PLUMBING AND DRAINAGE, PART 3: STORMWATER DRAINAGE.
2. THE MINOR (PIPED) SYSTEM HAS BEEN DESIGNED FOR THE 1 IN 20 YEAR ARI STORM EVENT AND THE MAJOR (OVERLAND) SYSTEM HAS BEEN DESIGNED FOR THE 1 IN 100 YEAR ARI STORM EVENT.
3. ALL FINISHED PAVEMENT LEVELS SHALL BE AS INDICATED ON FINISHED LEVELS PLANS C51&C52.
4. PIT SIZES SHALL BE AS INDICATED IN THE SCHEDULE WHILE PIPE SIZES AND DETAILS ARE PROVIDED ON PLAN.
5. EXISTING STORMWATER PIT LOCATIONS AND INVERT LEVELS TO BE CONFIRMED BY SURVEY PRIOR TO COMMENCING WORKS ON SITE.
6. ALL STORMWATER PIPES ø375 OR GREATER SHALL BE CLASS 2 (WITH HS2 SUPPORT) REINFORCED CONCRETE WITH RUBBER RING JOINTS UNLESS NOTED OTHERWISE.
7. ALL PIPES UP TO AND INCLUDING ø300 TO BE uPVC GRADE SN8 UNO.
8. PIPE CLASS NOMINATED ARE FOR IN-SERVICE LOADING CONDITIONS ONLY. CONTRACTOR IS TO MAKE ANY NECESSARY ADJUSTMENTS REQUIRED FOR CONSTRUCTION CONDITIONS.
9. ALL CONCRETE PITS GREATER THAN 1000mm DEEP SHALL BE REINFORCED USING N12-200 EACH WAY CENTERED IN WALL AND BASE. LAP MINIMUM 300mm WHERE REQUIRED. ALL CONCRETE FOR PITS SHALL BE F'c=25 MPa. PRECAST PITS MAY BE USED WITH THE APPROVAL OF THE ENGINEER.
10. IN ADDITION TO ITEM 6 ABOVE, ALL CONCRETE PITS GREATER THAN 3000mm DEEP SHALL HAVE WALLS AND BASE THICKNESS INCREASED TO 200mm.
11. PIPES SHALL BE LAID AS PER PIPE LAYING DETAILS. PARTICULAR CARE SHALL BE TAKEN TO ENSURE THAT THE PIPE IS FULLY AND EVENLY SUPPORTED. RAM AND PACK FILLING AROUND AND UNDER BACK OF PIPES AND PIPE FAUCETS, WITH NARROW EDGED RAMMERS OR OTHER SUITABLE TAMPING DETAILS.
12. CONCRETE PIPES UNDER, OR WITHIN THE ZONE OF INFLUENCE OF PAVED AREAS SHALL BE LAID USING HS2 TYPE SUPPORT, AS A MINIMUM, IN ACCORDANCE WITH AS 3725. AGGREGATE BACKFILL SHALL NOT BE USED FOR PIPE BEDDING AND OR HAUNCH/SIDE SUPPORT.
13. WHERE PIPE LINES ENTER PITS, PROVIDE 2m LENGTH OF STOCKING WRAPPED SLOTTED ø100 uPVC TO EACH SIDE OF PIPE.
14. ALL SUBSOIL DRAINAGE LINES SHALL BE ø100 SLOTTED uPVC WITH APPROVED FILTER WRAP LAID IN 300mm WIDE GRANULAR FILTER UNLESS NOTED OTHERWISE. LAY SUBSOIL LINES TO MATCH FALLS OF LAND AND/OR 1 IN 200 MINIMUM. PROVIDE CAPPED CLEANING EYE (RODDING POINT) AT UPSTREAM END OF LINE AND AT 30m MAX. CTS. PROVIDE SUBSOIL LINES TO ALL PAVEMENT/ LANDSCAPED INTERFACES, TO REAR OF RETAINING WALLS (AS NOMINATED BY STRUCTURAL ENGINEER) AND AS SHOWN ON PLAN.
15. ALL PIPE GRADES 1 IN 200 MINIMUM UNO.
16. PROVIDE STEP IRONS IN PITS DEEPER THAN 1000mm.
17. MIN. 600 COVER TO PIPE OBVERT BENEATH ROADS & MIN. 400 COVER BENEATH LANDSCAPED AND PEDESTRIAN AREAS.
18. PIT COVERS IN TRAFFICABLE PAVEMENT SHALL BE CLASS D 'HEAVY DUTY', THOSE LOCATED IN NON-TRAFFICABLE AREAS SHALL BE CLASS B 'MEDIUM DUTY' U.N.O.
19. PROVIDE CLEANING EYES (RODDING POINTS) TO PIPES AT ALL CORNERS AND T-JUNCTIONS WHERE NO PITS ARE PRESENT.
20. DOWN PIPES (DP) TO BE AS PER HYDRAULIC ENGINEERS DETAILS WITH CONNECTOR TO MATCH DP SIZE U.N.O. ON PLAN. PROVIDE CLEANING EYE AT GROUND LEVEL.
21. PIPE LENGTHS NOMINATED ON PLAN OR LONGSECTIONS ARE MEASURED FROM CENTER OF PITS TO THE NEAREST 0.5m AND DO NOT REPRESENT ACTUAL LENGTH. THE CONTRACTOR IS TO ALLOW FOR THIS.

PIT SCHEDULE

PIT No.	GRATE RL	TYPE	SIZE	COMMENT
PIT 1	72.77	SGGP	900x900	
PIT 2	71.28	SGGP	900x900	
PIT 3	70.24	SGGP	1200x1200	
PIT 4	68.08	SGGP	1200x1200	
PIT 5	64.24	SGGP	1500x1500	
PIT 6	61.59	SGGP	1500x1500	
PIT 7	57.30	SJP	1800x1800	
PIT 8	NOT USED			
PIT 9	55.73	SJP	1800x1800	
PIT 10	54.60	SJP	1800x1800	
PIT 11	54.10	SGGP	900x900	⊕
PIT 12	54.32	SGGP	900x900	⊕
PIT 13	54.46	SGGP	900x900	⊕
PIT 14	54.80	SGGP	900x900	⊕
PIT 15	54.61	SGGP	900x900	⊕
PIT 16	54.83	SGGP	900x900	⊕
PIT 17	55.58	SGGP	900x900	⊕
PIT 18	56.67	SGGP	900x900	⊕
PIT 19	57.40	SGGP	900x900	⊕
PIT 20	57.84	SGGP	1500x1500	⊕
PIT 21	59.58	SJP	1800x1800	
PIT 22	59.48	SJP	1800x1800	
PIT 26	59.39	KIP	900x900	⊕
PIT 27	59.61	SGGP	900x900	⊕
PIT 28	59.51	SGGP	900x900	⊕
PIT 29	59.25	SJP	900x900	
PIT 30	58.60	SGGP	900x900	⊕
PIT 31	59.28	SGGP	900x900	⊕
PIT 32	60.30	SJP	1500x1500	
PIT 33	55.80	SJP	900x900	
PIT 34	59.05	SJP	900x900	
PIT 35	59.52	SJP	1800x1800	
PIT 36	74.00	SJP	1200x1200	
PIT 37	NOT USED			
PIT 38	NOT USED			
PIT 39	57.25	SGGP	600x600	
PIT 40	58.58	SGGP	600x600	
PIT 41	58.60	SGGP	600x600	

⊕ - DENOTES PIT TO BE FITTED WITH OCEAN PROTECT OCEANGUARD UNIT REFER TO DRAWING C43 FOR PIT DEPTHS

CONCEPT STORMWATER DRAINAGE - SHEET 1
SCALE 1:500

5m 0 10 20 30 40 50m
SCALE 1:500 AT A0 SIZE SHEET

FOR CONSTRUCTION

AMENDMENTS	DATE	ISSUE
ISSUED FOR CONSTRUCTION CERTIFICATE	10.02.22	F
ISSUED FOR TENDER	07.09.21	E
ISSUED FOR TENDER	06.09.21	D
PIT SCHEDULE ADDED	12.08.21	C
ISSUED FOR TENDER	29.04.21	B
ISSUED FOR TENDER	11.02.21	A

AMENDMENTS	DATE	ISSUE
ISSUED FOR CONSTRUCTION	22.03.22	1
ISSUED FOR CONSTRUCTION	07.03.22	0
ISSUED FOR CONSTRUCTION CERTIFICATE	24.02.22	G

AMENDMENTS	DATE	ISSUE

ARCHITECT
SBA ARCHITECTS
Suite 702, 83 Mount Street, North Sydney NSW 2060
T 02 9929 6998 F 02 9929 6999
E info@sbarch.com.au W www.sbarch.com.au

CLIENT
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PROJECT
PROPOSED DEVELOPMENT
44 CLUNIES ROSS STREET, GREYSTANES

DESIGNED	DRAWN	DATE	CHECKED	SIZE	SCALE	CAD REF:
MC	MC	FEB '21	M W	A0	AS SHOWN	C013251.06- C41

Costin Roe Consulting Pty Ltd.
Consulting Engineers ACN 003 696 448
Level 1, 8 Windmill Street
Walsh Bay, Sydney NSW 2000
Tel: (02) 9251-7699 Fax: (02) 9241-3731
email: mail@costinroe.com.au

Costin Roe Consulting
PRECISION | COMMUNICATION | ACCOUNTABILITY

DRAWING TITLE
STORMWATER DRAINAGE PLAN SHEET 1

DRAWING No. C013251.06-C41
ISSUE 1