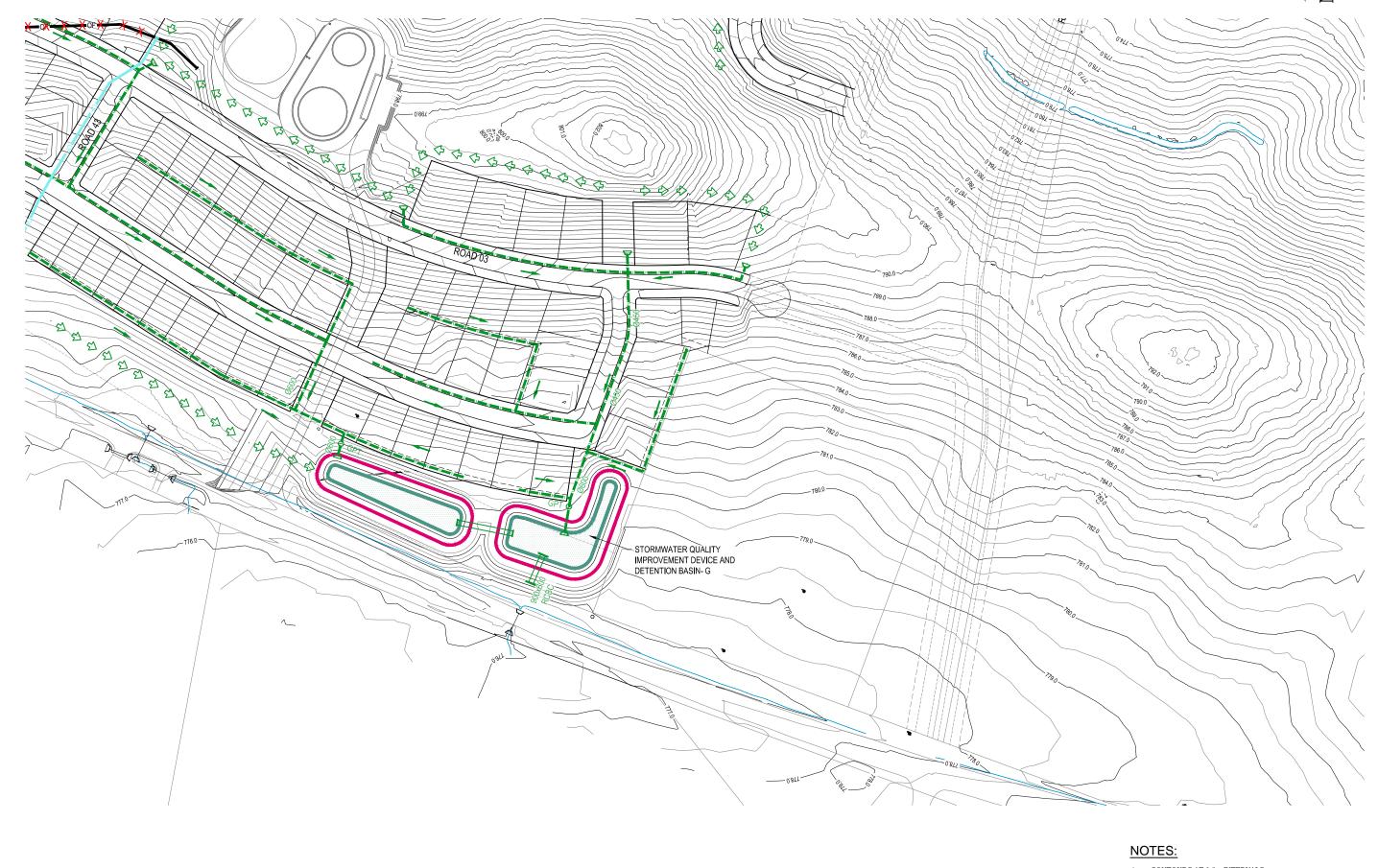


NOTES:

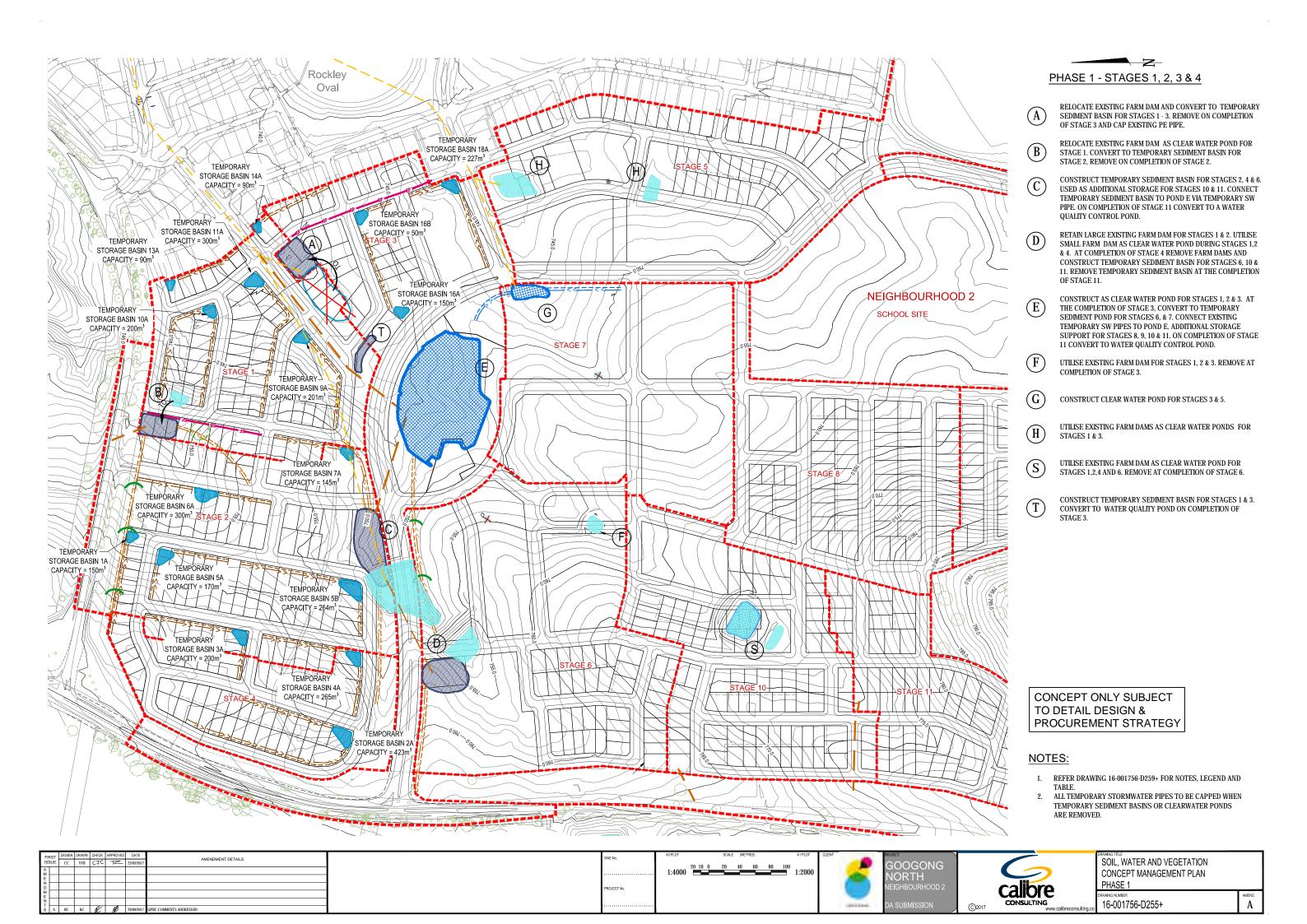
- CONTOURS AT 0.5m INTERVALS.
 REFER TO DRAWING 16-001756-D240+ FOR NOTES AND LEGEND

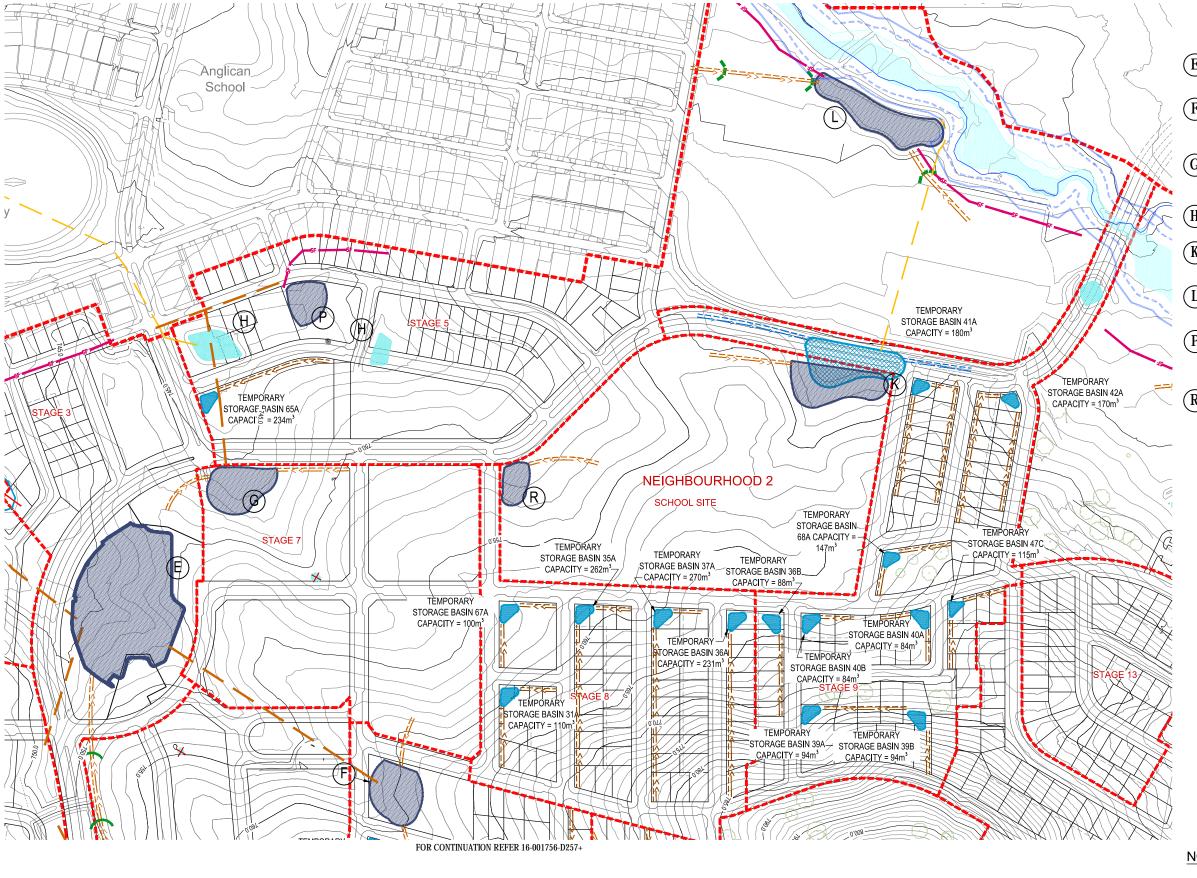
FIRST ISSUE	SIGN DRAWN CHECK	APPROVED DATE APL 23/03/2017	AMENDMENT DETAILS	WAE No.	A3 PLOT SCALE (METRES) A1 PLOT	CLIENT	GOOGONG		MISHID POND DETAILS	
A M E					1:2000 1:1000		NORTH		SHEET 4	
M E				PROJECT No.			NEIGHBOURHOOD 2	calibre SONSULTING	DRAWING NUMBER	AMEND.
N T S A	C KC K	AB 29/09/2017	QPRC COMMENTS ADDRESSED			SOURCE.	DA SUBMISSION	©2017 CONSULTING www.calibreconsulting.co	, 16-001756-D244+	A



- CONTOURS AT 0.5m INTERVALS.
 REFER TO DRAWING 16-001756-D240+ FOR NOTES AND LEGEND

FIRS	ST DESIGN UE BC	N DRAWN VVB	CHECK AF	PPROVED 23	DATE /03/2017	AMENDMENT DETAILS	WAE No.		SCALE (METRES) 10 20 30 40	A1 PLOT	CLIENT		PROJECT			DRA	AVINGTITLE WSUD POND DETAILS	
A M E								1:2000	10 20 30 40	1:1000		-	NORTH			3	SHEET 5	
D M E							PROJECT No.						NEIGHBOURHOOD 2		calibre		AWING NUMBER	AMEND.
N T S	A BC	KC	R	MB 25	v09/2017 C	QPRC COMMENTS ADDRESSED						source.	DA SUBMISSION	©2017	CONSULTING www.calibrecon	sulting.co	16-001756-D245+	A





PHASE 2 - STAGES 5, 6, 7, 8, 9, 10 & 11

- E UTILISE AS TEMPORARY SEDIMENT BASIN FOR STAGES 6 & 7 AND ADDITIONAL STORAGE SUPPORT FOR 8, 9, 10 & 11. CONVERT TO WATER QUALITY POND AT THE COMPLETION OF STAGE 11.
- COSTRUCT TEMPORARY SEDIMENT BASIN AT THE COMMENCEMENT OF STAGE 8 FOR THE DURATION OF STAGES 8 & 10. UTILISE AS ADDITIONAL STORAGE FOR STAGE 11. REMOVE AT THE COMPLETION OF STAGE 11.
- CONVERT CLEAR WATER POND TO TEMPORARY SEDIMENT POND FOR STAGES 6, 7, 8 & 9. REMOVE AT THE COMPLETION OF STAGE 9. CONNECT POND VIA TEMPORARY STORMWATER PIPE TO POND F
- H REMOVE CLEAR WATER PONDS AT THE COMPLETION OF STAGE 4 AND CAP EXISTING STORMWATER PIPE.
- UTILISE EXISTING CLEAR WATER POND FOR STAGES 1, 3, 5 & 7.
 RELOCATE AND CONVERT TO TEMPORARY SEDIMENT BASIN FOR
 STAGES 8 & 9. REMOVE AT COMPLETION OF STAGE 9.
- UTILISE EXISTING TEMPORARY SEDIMENT BASIN FOR STAGES 8, 9 & 12. CONVERT TO WATER QUALITY CONTROL POND AT THE COMPLETION OF STAGE 12.
- CONSTRUCT TEMPORARY SEDIMENT BASIN FOR STAGE 5.
 CONVERT TO WATER QUALITY CONTROL POND AT COMPLETION
 OF STAGE 5. CONNECT TO EXISTING TEMPORARY STORMWATER.
- $\widehat{R}) \begin{tabular}{l} \label{eq:construct temporary sediment basin for stages 8 \& 9. \\ \label{eq:remove at completion of stage 9.} \end{tabular}$

CONCEPT ONLY SUBJECT TO DETAIL DESIGN & PROCUREMENT STRATEGY

NOTES:

- 1. REFER DRAWING 16-001756-D259+ FOR NOTES, LEGEND AND TABLE.
- 2. ALL TEMPORARY STORMWATER PIPES TO BE CAPPED WHEN TEMPORARY SEDIMENT BASINS OR CLEARWATER PONDS ARE REMOVED.

ESIGN		DRAWN CHECK	APPROVED DATE	AMENDMENT DETAILS	WAE No.		3 PLOT	SCALE	(METRES)	A1 PL	JT	CLIENT		PROJECT
В		AAB C2C	23/03/2017	AMENDMENT DETAILS	l marin	1	20 10 0	20	40 60 9	80 100				GOOGONG
							1:4000	20	10 00 0	1:20	J00		-	NODTH
														NORTH
Ī					PROJECT No.	1								NEIGHBOURHOOD 2
						1								
						1							A COLUMN TO A COLU	DA SUBMISSION
	D.C	vc 0/	18 annomora	ODDC COMMENTS ADDDESSED									10.00	DA SUBIVIISSIUN

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SOIL, WATER AND VEGETATION CONCEPT MANAGEMENT PLAN PHASE 2 - SHEET 1 OF 2

16-001756-D256+





PHASE 2 - STAGES 5, 6, 7, 8, 9, 10 & 11

- ADDITIONAL STORAGE SUPPORT FOR STAGES 10 & 11. CONVERT
 TO WATER QUALITY CONTROL POND AT COMPLETION OF STAGE
- CONSTRUCT TEMPORARY SEDIMENT BASIN FOR STAGES 6, 10 & 11. REMOVE AT THE COMPLETION OF STAGE 11.
- E

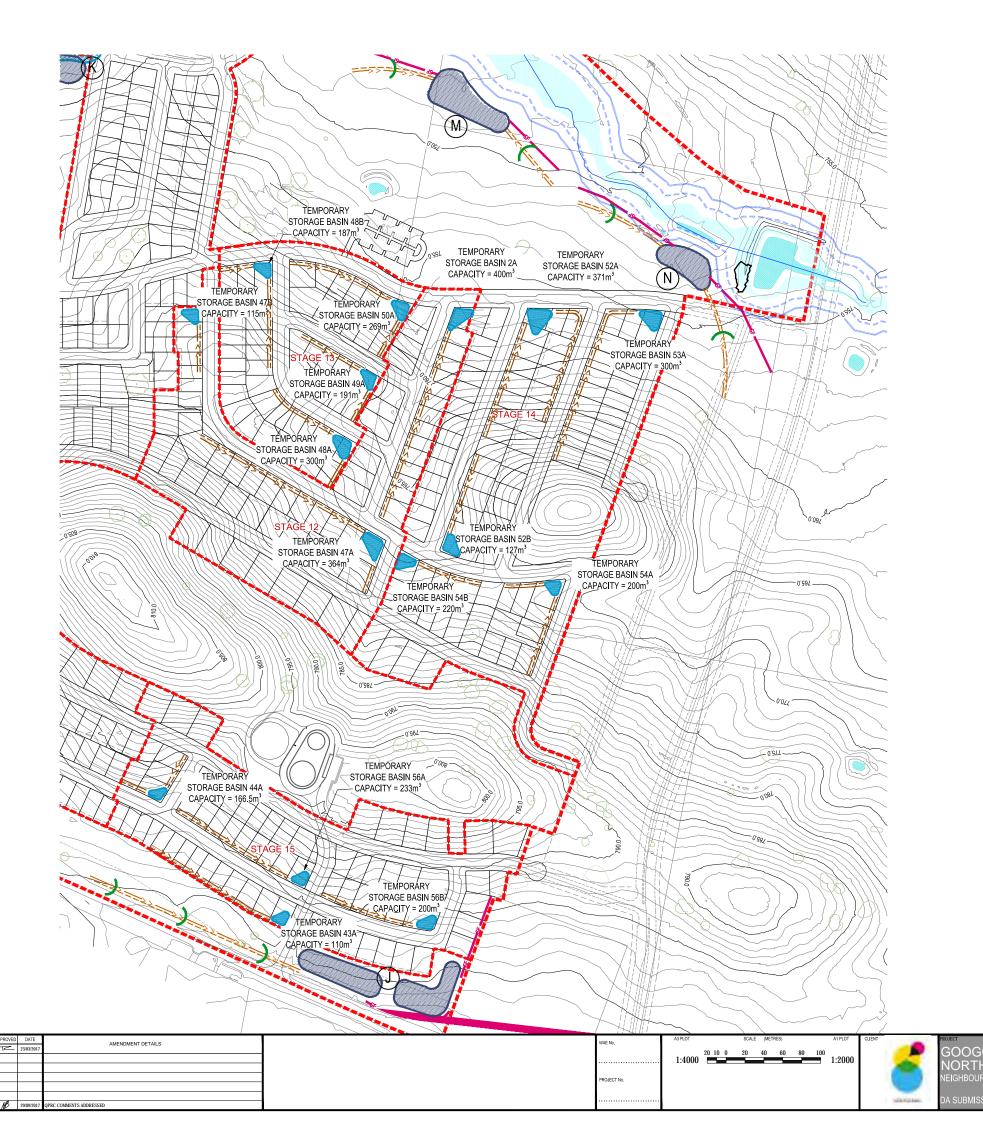
 UTILISE AS TEMPORARY SEDIMENT BASIN FOR STAGES 5, 6 & 7
 AND ADDITIONAL STORAGE SUPPORT FOR 8, 9, 10 & 11.
 CONVERT TO WATER QUALITY POND AT THE COMPLETION OF
 STAGE 11
- CONSTRUCT TEMPORARY SEDIMENT BASIN AT THE COMMENCEMENT OF STAGE 6 FOR THE DURATION OF STAGES 6, 7, 8 & 10. UTILISE AS ADDITIONAL STORAGE FOR STAGE 11. REMOVE AT THE COMPLETION OF STAGE 11.
- O CONSTRUCT TEMPORARY SEDIMENT BASIN FOR STAGE 10. REMOVE AT COMPLETION OF STAGE 10.
- Q CONSTRUCT TEMPORARY SEDIMENT BASIN FOR STAGE 11. REMOVE AT COMPLETION OF STAGE 11.
- S UTILISE EXISTING FARM DAM AS CLEAR WATER POND FOR STAGES 1, 2, 4, 6 & 7. REMOVE AT COMPLETION OF STAGE 10.

CONCEPT ONLY SUBJECT TO DETAIL DESIGN & PROCUREMENT STRATEGY

NOTES:

- 1. REFER DRAWING 16-001756-D259+ FOR NOTES, LEGEND AND TABLE.
- 2. ALL TEMPORARY STORMWATER PIPES TO BE CAPPED WHEN TEMPORARY SEDIMENT BASINS OR CLEARWATER PONDS ARE REMOVED.

FIRST DESIGN DRAWN CHECK APPROVED DATE AMENDMENT DETAILS ISSUE BC VVB C.3C T	WAE No.	A3 PLOT SCALE (METRES) A1 PLOT	CLIENT	PROJECT		SOIL, WATER AND VEGETATION	
A		1:4000 1:2000	-	NORTH		CONCEPT MANAGEMENT PLAN PHASE 2 - SHEET 2	
D	PROJECT No.			NEIGHBOURHOOD 2	calibre	DRAWING NUMBER	AMEND.
T S A BC KC 6 2909/2017 QPRC COMMENTS ADDRESSED			NAME AND ADDRESS OF THE PARTY NAMED AND ADDRESS OF THE PARTY N	DA SUBMISSION	©2017 CONSULTING www.calibreconsulti	_{g.co} 16-001756-D257+	A





PHASE 3 - STAGES 12, 13, 14 & 15

- CONSTRUCT TEMPORARY SEDIMENT BASIN FOR STAGE 15. CONVERT TO WATER QUALITY CONTROL POND AT COMPLETION OF
- \bigcirc M CONSTRUCT TEMPORARY SEDIMENT BASIN FOR STAGES 9, 12, & 13. CONVERT TO WATER QUALITY CONTROL POND AT COMPLETION OF STAGE 13.
 - CONSTRUCT TEMPORARY SEDIMENT BASIN FOR STAGES 13 & 14. CONVERT TO WATER QUALITY CONTROL POND AT COMPLETION OF

CONCEPT ONLY SUBJECT TO DETAIL DESIGN & PROCUREMENT STRATEGY

NOTES:

- 1. REFER DRAWING 16-001756-D259+ FOR NOTES, LEGEND AND
- 2. ALL TEMPORARY STORMWATER PIPES TO BE CAPPED WHEN TEMPORARY SEDIMENT BASINS OR CLEARWATER PONDS ARE REMOVED.

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ON	CONSULTING	1:1

SOIL, WATER AND VEGETATION CONCEPT MANAGEMENT PLAN PHASE 3

16-001756-D258+

BASIN NAME	CATCHMENT AREA (ha)	STORAGE REQUIRED 75%ILE (m³)	REQUIRED 85%ILE	SEDIMENT BASIN VOLUME (m³)	IN CATCHMENT BASIN VOLUME (m³)	TOTAL SEDIMENT VOLUME AVAILABLE (m³)	EQUIVALENT Y-%ILE 5 DAY RAINFALL (mm)	EQUIVALENT Y-DAY %ILE EVENT	TOTAL VOLUME ≥ REQUIRED 85% VOLUME
Α	9.4	994	2047	1455	881	2336	29.45	87	✓
В	4.7	494	2143	1250	1029	2279	47.00	96	✓
С	10.5	1147	2361	3020	688	3708	35.45	90	✓
D	7.6	803	1653	2180	644	2824	38.57	92	✓
Е	31.5	3320	6833	12000	0	12000	39.65	92	✓
F	13.0	1364	2807	2905	644	3549	32.62	89	✓
G	10.7	1126	2318	2807	0	2807	31.24	88	✓
Н	6.0				CLEAR WA	TER POND ON	1LY		
J	10.7	1129	2323	3000	601	3601	35.00	90	✓
К	12.8	1343	2765	3573	1173	4746	38.75	92	✓
L	15.0	1582	3255	5636	1173	6809	43.80	94	✓
М	12.9	1355	2789	3568	479	4047	32.76	89	✓
N	4.0	418	860	1882	1618	3500	74.44	100	✓
0	2.4	251	517	662	872	1534	54.30	100	✓
Р	6.9	727	1495	1500	0	1500	25.90	85	✓
Q	0.3	30	62	1470	725	2195	649.93	100	✓
R	5.3	554	1140	463	881	1344	30.43	87	✓
S	8.4				CLEAR WA	TER POND ON	1LY		
Т	8.5	890	1833	1090	858	1948	27.41	86	✓

CONSTRAINT/CHARACTERISTIC	VALUE/RATING
RAINFALL EROSIVITY	R-FACTOR IS 1,500
SLOPE GRADIENT	UP TO 15 PERCENT
POTENTIAL EROSION HAZARD	LOW
RAINFALL ZONE	ZONE 10
SOIL ERODIBILITY (SUBSOIL)	MODERATE
CALCULATED SOIL LOSS	up to 242 t/ha/yr
SOIL LOSS CLASS	CLASS 3
SOIL TEXTURE GROUP	TYPE D
RUNOFF COEFFICIENT	0.56 MINIMUM
TOTAL SITE AREA	176.92 ha
DISTURBED SITE AREA	176.92 ha
75%ILE 5-DAY RAINFALL EVENT	18mm QUEANBEYAN
85%ILE 5-DAY RAINFALL EVENT	25.8mm QUEANBEYAN

NOTES:

- 1. THESE DRAWING ARE CONCEPT PLAN ONLY. DETAILED SOIL, WATER AND VEGETATION PLANS WILL NEED TO BE DESIGNED TO COMPLY WITH THE REQUIREMENTS OF THE ENVIRONMENT PROTECTION ACT 1997, THE QUEANBEYAN - PALERANG REGIONAL COUNCIL DEVELOPMENT DESIGN SPECIFICATION D7 - EROSION CONTROL AND STORMWATER MANAGEMENT AND THE MANAGING URBAN STORMWATER: SOILS AND CONSTRUCTION BY
- ALL VARIATIONS TO APPROVED CONCEPTS AND PROPOSALS ARE TO BE REVIEWED AND APPROVED BY QUEANBEYAN PALERANG REGIONAL COUNCIL
- SEDIMENTATION CONTROL POND LOCATION SHALL BE APPROVED BY SUPERINTENDENT PRIOR TO ITS CONSTRUCTION
- ENVIRONMENTAL PROTECTION MEASURES SUCH AS STABILISED ACCESS POINTS, DUST SUPPRESSION, RECYCLING OF WATER ARE TO BE MAINTAINED AT ALL TIMES AND AN APPROPRIATE MAINTENANCE SCHEDULE SHALL BE PROVIDED PRIOR TO COMMENCEMENT OF WORKS.
- FOR ALL IMPORTED MATERIAL, THE DETAILS OF ORIGIN AND QUANTITY ARE TO BE RECORDED AND PROVIDED BY THE SUPERINTENDENT AND QUEANBEYAN - PALERANG REGIONAL COUNCIL PRIOR TO COMMENCEMENT OF EARTHWORKS
- FOR SEDIMENT CONTROL MEASURES LOCATED ON LINE WITH WATERCOURSE, STRINGENT AND REGULAR INSPECTION AND MAINTENANCE SHALL BE
- DETAILED DESIGN OF SEDIMENT CONTROL PONDS TO BE DONE IN ACCORDANCE WITH SECTION 6.3.4 OF THE BLUE BOOK.
- CONTOURS AT 1m INTERVALS.
- ON BLOCK SEDIMENT BASIN TO BE RETAINED UNTIL SURROUNDING ROADS HAVE BEEN ESTABLISHED. REMOVAL SUBJECT TO THE APPROVAL OF THE
- 10. CONTRACTOR IS TO ESTABLISH A MAINTENANCE PROGRAM FOR SEDIMENT AND EROSION CONTROL DEVICES TO ENSURE INSPECTION AFTER SIGNIFICANT RAINFALL AND THAT ANY REPAIRS NECESSARY ARE QUICKLY ATTENDED TO.

LEGEND

STAGE BOUNDARY

SILT FENCE

TEMPORARY HAY BALES

EXISTING TEMPORARY STORMWATER PIPE

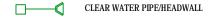
EXISTING STORMWATER

FUTURE TEMPORARY STORMWATER PIPE

EXISTING FARM DAM / DAM TO BE REMOVED

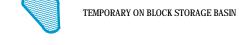


CLEAR WATER DIVERSION DRAIN





TEMPORARY SEDIMENT BASIN DIVERSION DRAIN



ON SITE WATER DIVERSION BUND



TREES TO BE RETAINED







DRAWING TITLE
SOIL. WATER AND VEGETATION
COIL, WITH LICENTED VEGETITION
CONCEPT MANAGEMENT NOTES.
CONTOLL THE WAY COLUMNIA TO TEO,
LEGEND & TABLE
ELGEND & IT IDEE
DRAWING NUMBER

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