

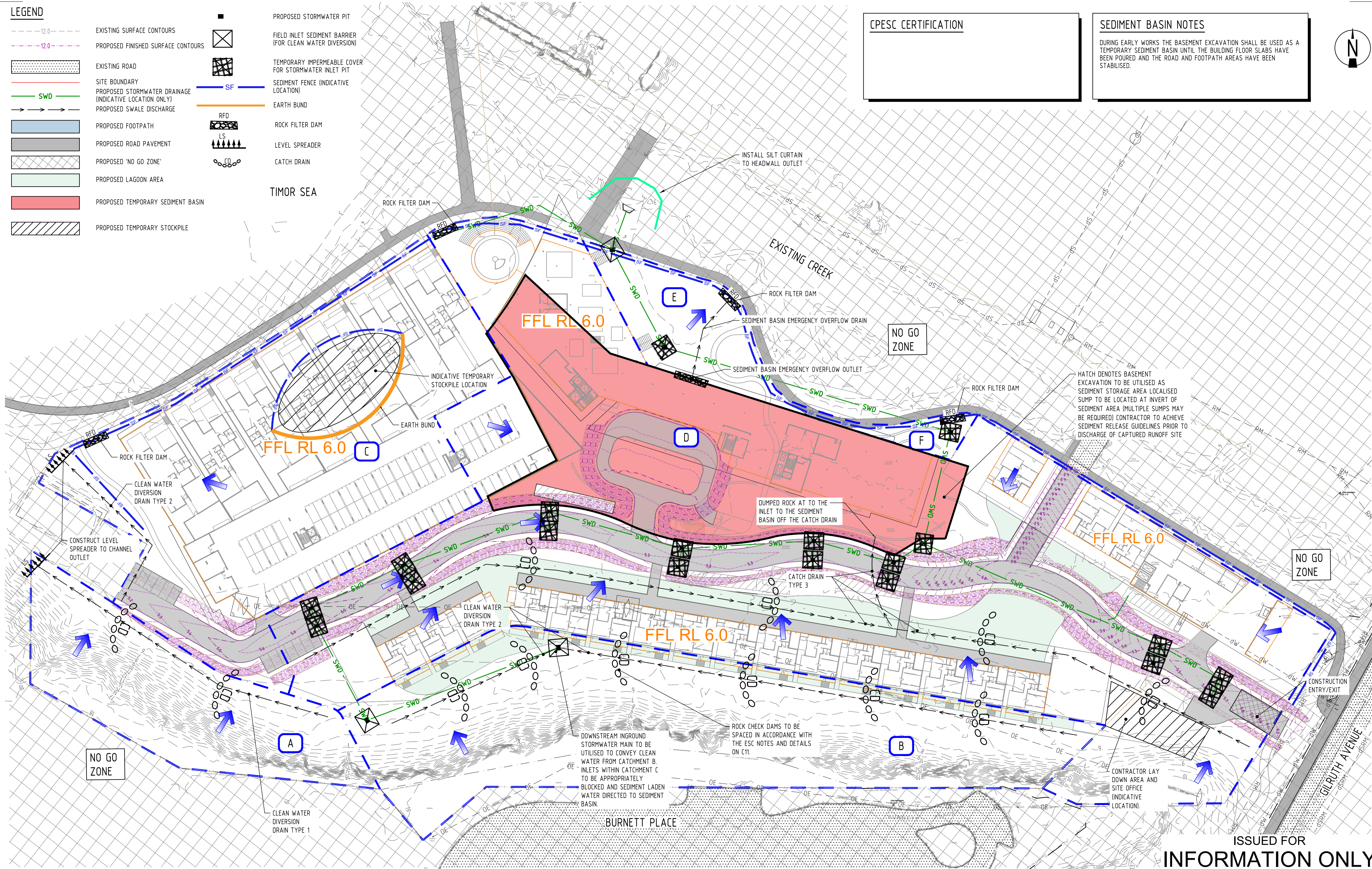
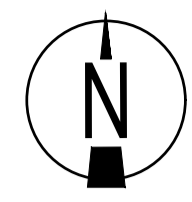
LEGEND

- 12.0 EXISTING SURFACE CONTOURS
- 12.0 PROPOSED FINISHED SURFACE CONTOURS
- EXISTING ROAD
- SITE BOUNDARY
- SWD PROPOSED STORMWATER DRAINAGE (INDICATIVE LOCATION ONLY)
- PROPOSED SWALE DISCHARGE
- PROPOSED FOOTPATH
- PROPOSED ROAD PAVEMENT
- PROPOSED 'NO GO ZONE'
- PROPOSED LAGOON AREA
- PROPOSED TEMPORARY SEDIMENT BASIN
- PROPOSED TEMPORARY STOCKPILE
- PROPOSED STORMWATER PIT
- FIELD INLET SEDIMENT BARRIER (FOR CLEAN WATER DIVERSION)
- TEMPORARY IMPERMEABLE COVER FOR STORMWATER INLET PIT
- SF SEDIMENT FENCE (INDICATIVE LOCATION)
- EARTH BUND
- RFD ROCK FILTER DAM
- LS LEVEL SPREADER
- CD CATCH DRAIN

TIMOR SEA

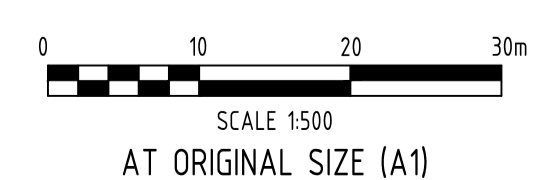
CPESC CERTIFICATION

SEDIMENT BASIN NOTES
 DURING EARLY WORKS THE BASEMENT EXCAVATION SHALL BE USED AS A TEMPORARY SEDIMENT BASIN UNTIL THE BUILDING FLOOR SLABS HAVE BEEN POURED AND THE ROAD AND FOOTPATH AREAS HAVE BEEN STABILISED.



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Rev	Date	Description	By	Chk
B	17.06.21	ISSUED FOR INFORMATION	AM	HD
A	1.06.21	ISSUED FOR INFORMATION	JL	HD



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Client: KTT Investments Pty Ltd
 Project Name: LITTLE MINDIL BEACH THE GARDENS, NORTHERN TERRITORY

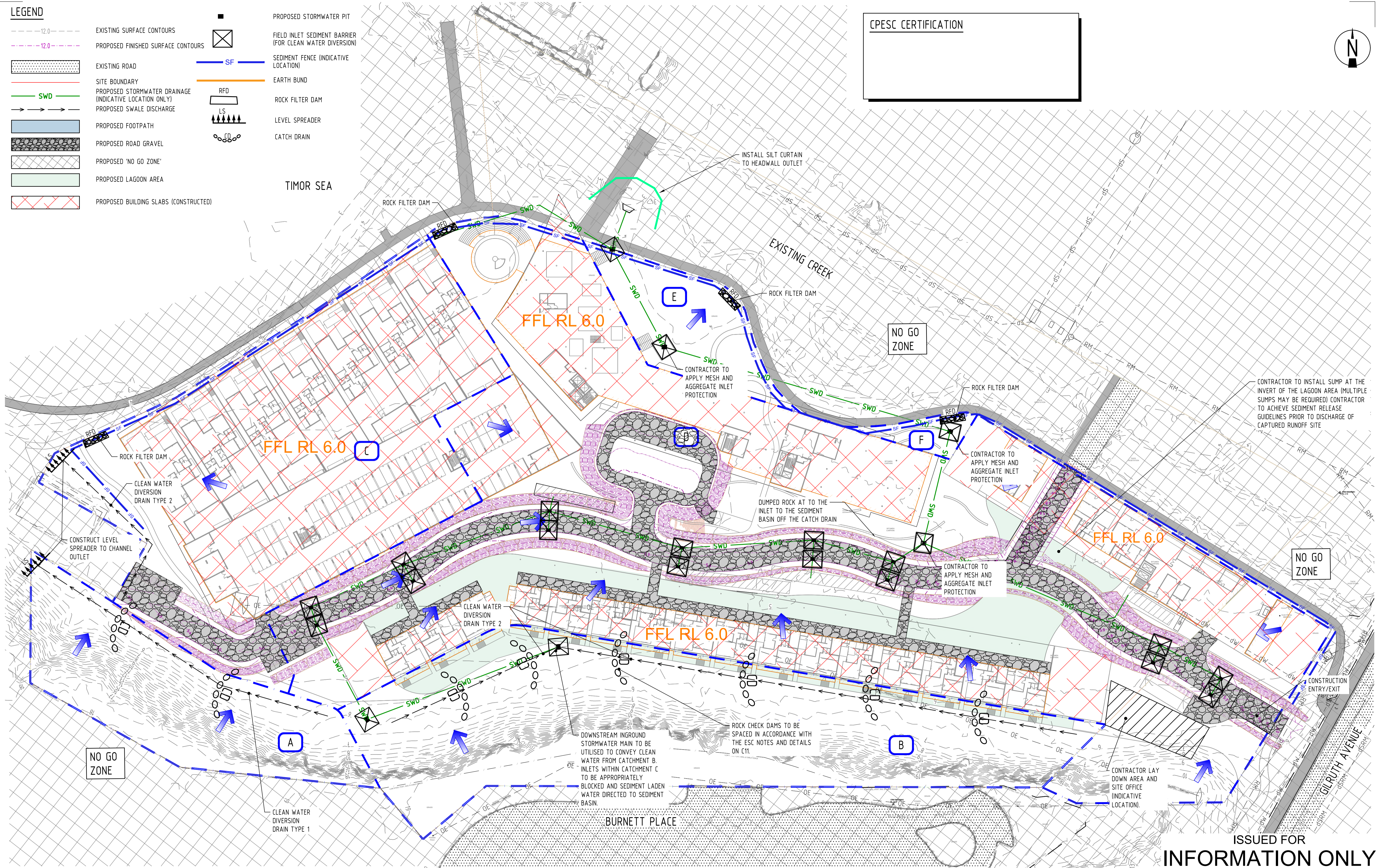
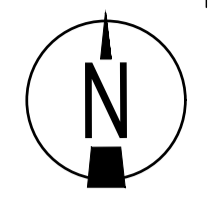
Discipline		Status	
CIVIL		INFORMATION	
Designed By: HD	Checked By: HD	Approved By: BL	
Project No: 23085	Drawn By: DG	Scale at A1: AS SHOWN	

Title		Drawing No.	
EROSION AND SEDIMENT CONTROL LAYOUT PLAN CONSTRUCTION STAGE - PHASE 1		DA_C110	
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LEGEND

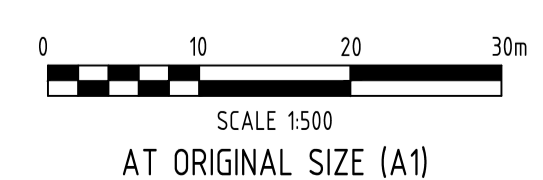
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- PROPOSED SWALE DISCHARGE
- PROPOSED FOOTPATH
- PROPOSED ROAD GRAVEL
- PROPOSED 'NO GO ZONE'
- PROPOSED LAGOON AREA
- PROPOSED BUILDING SLABS (CONSTRUCTED)
- PROPOSED STORMWATER PIT
- FIELD INLET SEDIMENT BARRIER (FOR CLEAN WATER DIVERSION)
- SEDIMENT FENCE (INDICATIVE LOCATION)
- EARTH BUND
- ROCK FILTER DAM
- LEVEL SPREADER
- CATCH DRAIN

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Client: **KTT Investments Pty Ltd**
 Project Name: **LITTLE MINDIL BEACH THE GARDENS, NORTHERN TERRITORY**

Discipline: CIVIL		Status: INFORMATION
Designed By: HD	Checked By: HD	Approved By: BL
Project No: 23085	Drawn By: DG	Scale at A1: AS SHOWN

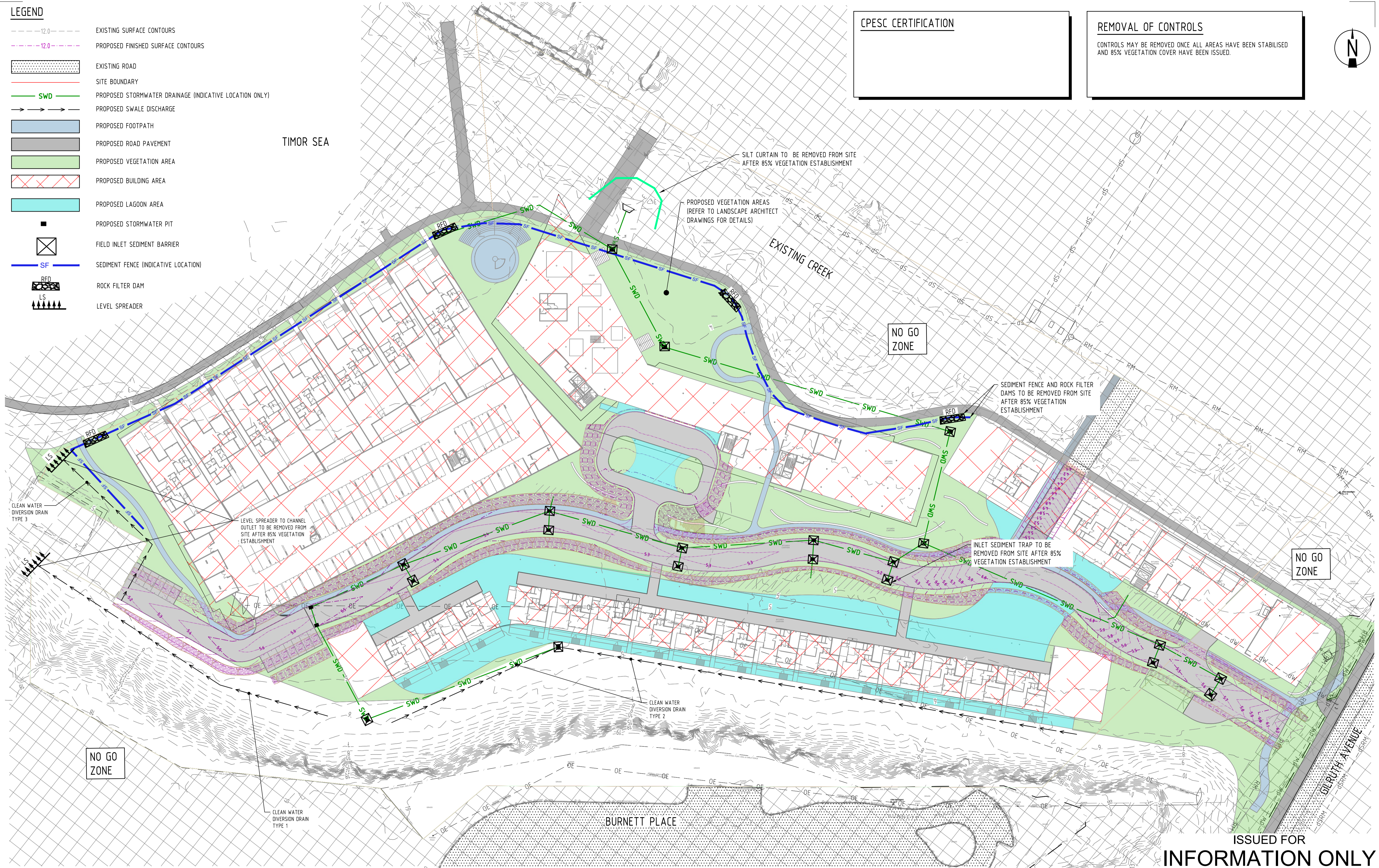
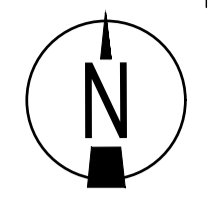
Title: EROSION AND SEDIMENT CONTROL LAYOUT PLAN CONSTRUCTION STAGE - PHASE 2	
Drawing No: DA_C111	Revision: B

LEGEND

- EXISTING SURFACE CONTOURS
- PROPOSED FINISHED SURFACE CONTOURS
- EXISTING ROAD
- SITE BOUNDARY
- PROPOSED STORMWATER DRAINAGE (INDICATIVE LOCATION ONLY)
- PROPOSED SWALE DISCHARGE
- PROPOSED FOOTPATH
- PROPOSED ROAD PAVEMENT
- PROPOSED VEGETATION AREA
- PROPOSED BUILDING AREA
- PROPOSED LAGOON AREA
- PROPOSED STORMWATER PIT
- FIELD INLET SEDIMENT BARRIER
- SEDIMENT FENCE (INDICATIVE LOCATION)
- ROCK FILTER DAM
- LEVEL SPREADER

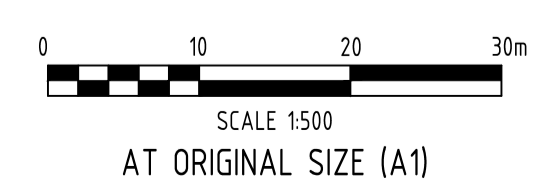
CPESC CERTIFICATION

REMOVAL OF CONTROLS
 CONTROLS MAY BE REMOVED ONCE ALL AREAS HAVE BEEN STABILISED AND 85% VEGETATION COVER HAVE BEEN ISSUED.



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Client: **KTT Investments Pty Ltd**
 Project Name: **LITTLE MINDIL BEACH THE GARDENS, NORTHERN TERRITORY**

Discipline: CIVIL		Status: INFORMATION
Designed By: HD	Checked By: HD	Approved By: BL
Project No: 23085	Drawn By: DG	Scale at A1: AS SHOWN

Title: EROSION AND SEDIMENT CONTROL PLAN STABILISATION STAGE	
Drawing No: DA_C112	Revision: B

GENERAL NOTES:

- ALL SEDIMENT & EROSION CONTROL MEASURES TO BE IN ACCORDANCE WITH INTERNATIONAL EROSION CONTROL ASSOCIATION (IECA) AUSTRALIA GUIDELINES AND THE SPECIFICATIONS.
- SEDIMENT & EROSION CONTROL DETAILS SHOWN ARE MINIMUM REQUIREMENTS. IT IS THE CONTRACTORS RESPONSIBILITY TO INSTALL ADDITIONAL CONTROL MEASURES AS DEEMED NECESSARY THROUGHOUT CONSTRUCTION.
- THE CONTRACTOR IS RESPONSIBLE TO MAINTAIN ALL SEDIMENT CONTROL DEVICES IN A FUNCTIONAL ORDER AND REPLACE ALL BLOCKED SEDIMENT DEVICES AS REQUIRED UNTIL SUCCESSFUL OFF MAINTENANCE OF WORKS.
- CONSTRUCTION OF ALL SEDIMENT MANAGEMENT DEVICES TO THE SATISFACTION OF THE SUPERINTENDENT SHALL BE COMPLETED AND EFFECTIVE PRIOR TO:
 - STRIPPING OF TOPSOIL AND GRASS.
 - BULK EARTHWORKS TO THE SITE.
 - SERVICES INSTALLATION.
 - PAVEMENT CONSTRUCTION.
- ALL SEDIMENT MANAGEMENT MEASURES ARE TO REMAIN IN PLACE UNTIL INSTRUCTION IS RECEIVED IN WRITING FROM THE SUPERINTENDENT TO REMOVE ALL OR PART OF THE SILT CONTROL APPLICATIONS.
- THE BULK EARTHWORKS AND SEDIMENT CONTROL LAYOUT PLAN SHALL BE READ IN CONJUNCTION WITH THE APPROVED DRAWINGS.
- PRIOR TO COMMENCEMENT OF CONSTRUCTION APPROVAL IS TO BE OBTAINED FROM THE SUPERINTENDENT FOR THE LOCATION OF THE SITE ACCESS POINT AND WASH DOWN AREA WHICH ARE TO BE MAINTAINED THROUGHOUT THE CONSTRUCTION PERIOD.
- IF EROSION AND SEDIMENT CONTROL DEVICES HAVE BEEN FOUND TO BE DIFFERENT OR FAILED IN SERVICE, CORRECTIVE ACTION IS TO BE UNDERTAKEN IMMEDIATELY WHICH MAY INCLUDE AMENDMENTS' ADDITIONS TO THE ORIGINAL APPROVED EROSION CONTROL PLANS. SUCH AMENDMENTS ARE TO BE APPROVED BY SUPERINTENDENT, IF DEEMED NECESSARY AND RELEVANT.
- TEMPORARY DRAINAGE CONTROL FLOW SHOULD BE DIVERTED AROUND THE WORK SITE WHERE POSSIBLE.
 - ALL DRAINAGE, EROSION AND SEDIMENT CONTROLS TO BE INSTALLED AND BE OPERATIONAL BEFORE COMMENCING UP-SLOPE EARTHWORKS.

SEDIMENT RELEASE GUIDELINES (INCLUDING DEWATERING & SEDIMENT BASINS):

- ALL RELEASES OF STORMWATER CAPTURED ONSITE, UNLESS OTHERWISE NOTED IN THIS STANDARD, MUST NOT EXCEED THE FOLLOWING LIMITS:
 - 20NTU AS A MAXIMUM CONCENTRATION (MEASURED USING A TURBIDITY METER).
 - TURBIDITY (NTU) VALUE LESS THAN 10% ABOVE BACKGROUND.
 - PH VALUE MUST BE IN THE RANGE 6.5 TO 8.5 EXCEPT WHERE, AND TO THE EXTENT THAT, THE NATURAL RECEIVING WATERS LIE OUTSIDE THIS RANGE.
- THE TURBIDITY OF WATER RELEASED BY DEWATERING MAY ONLY EXCEED 20NTU WHERE IT CAN BE DEMONSTRATED AND SUPPORTED THROUGH DOCUMENTATION THAT:
 - FURTHER SIGNIFICANT RAINFALL IS FORECAST TO OCCUR BEFORE THE TSS CONCENTRATION IS LIKELY TO BE REDUCED TO 20NTU;
 - RELEASING A HIGHER CONCENTRATION OF TSS WILL RESULT IN A BETTER ENVIRONMENTAL OUTCOME BY PROVIDING STORAGE FOR THE CAPTURE AND TREATMENT OF RUN-OFF FROM THE IMMEDIATE RAINFALL AND RUN-OFF.
 - ALL REASONABLE AND PRACTICABLE STEPS HAVE BEEN TAKEN TO TREAT THE WATER WITHIN BEST-PRACTICE TIME FRAMES;
 - FLOCCULANT/COAGULANT HAS BEEN APPROPRIATELY APPLIED AND THE CONCENTRATION OF TSS IN THE CAPTURED WATER HAS ALREADY SIGNIFICANTLY DECREASED.

NOTE: BACKGROUND REFERS TO RECEIVING WATER QUALITY IMMEDIATELY UPSTREAM OF THE SITE LOCATION RELEASE POINT AT THE TIME OF RELEASE. WHERE THERE IS NO IMMEDIATE UPSTREAM RECEIVING WATER AT THE LOCATION AND TIME OF RELEASE, THEN THE TURBIDITY RELEASE LIMIT (20NTU) APPLIES.

CHECK DAMS

- FOR CHECK DAM STANDARD DETAIL AND SPECIFICATION REFER TO INTERNATIONAL EROSION CONTROL ASSOCIATION AUSTRALASIA (IECA) BEST PRACTICES STANDARD DRAWING RCD-01 CHECK DAMS.
- SPACING BETWEEN CHECK DAMS SHALL BE AS PER THE FOLLOWING TABLE.

ROCK CHECK DAM SPACING (m)				
CHECK DAM HEIGHT (MM)	CHANNEL SLOPE	1%	2%	3%
	300		17.2	8.6
400		22.9	11.5	7.6
500		28.6	14.3	9.5
600		34.4	17.2	11.4

REVEGETATION

- FOR REVEGETATION STANDARD SPECIFICATION REFER TO INTERNATIONAL EROSION CONTROL ASSOCIATION AUSTRALASIA (IECA) BEST PRACTICES STANDARD DRAWING R-01 REVEGETATION GENERAL.

OPERATION AND MAINTENANCE

- REFER TO THE SEDIMENT RELEASE GUIDELINES FOR TREATMENT & DISCHARGE REQUIREMENTS FOR DISCHARGING RUNOFF OFF SITE.

- IN ACCORDANCE WITH DENR/IECA GUIDELINES, ALL ESC MEASURES SHALL BE INSPECTED:
 - AT LEAST DAILY (WHEN WORK IS OCCURRING ON SITE) OR WEEKLY (WHEN WORK IS NOT OCCURRING ON SITE)
 - WITHIN 24 HOURS OF EXPECTED RAIN; AND
 - WITHIN 18 HOURS OF A RAINFALL EVENT (I.E. AN EVENT OF SUFFICIENT INTENSITY AND DURATION TO MOBILISE SEDIMENT ON SITE).
- IN ACCORDANCE WITH DENR/IECA REQUIREMENTS, MAINTENANCE OF ESC MEASURES SHALL OCCUR IN ACCORDANCE WITH THE FOLLOWING TABLE:

MAINTENANCE SCHEDULE			
ESC MEASURE	MAINTENANCE	MAINTENANCE TRIGGER	TIMEFRAME FOR COMPLETION OF MAINTENANCE
RCD	REPLACE OR RE-INSTATE	RCD HAS COLLAPSED	PRIOR TO THE NEXT STORM
	DE-SILTING	THE CAPACITY OF THE RCD FALLS BELOW 75%	PRIOR TO THE NEXT STORM
BUNDS	REPLACE OR RE-INSTATE	BUND WALL HAS BEEN BROKEN OR LOW POINT CREATED	PRIOR TO THE NEXT STORM
SEDIMENT FENCE	REPLACE OR RE-INSTATE	SEDIMENT FENCE COLLAPSED / BROKEN / NOT TOED IN	PRIOR TO THE NEXT STORM
	DE-SILTING	THE CAPACITY OF THE SEDIMENT FENCE FALLS BELOW 75%	PRIOR TO THE NEXT STORM
SEDIMENT BASIN	SEDIMENT STORAGE ZONE IS FULL	CLEAN OUT SEDIMENT	PRIOR TO THE NEXT STORM
	BASIN HAS WATER IN IT	TREAT WATER WITH FLOCCULENT / COAGULANT AND PUMP OUT / RELEASE WATER ONCE BELOW TARGETS IDENTIFIED IN THE SEDIMENT RELEASE GUIDELINES	PRIOR TO THE NEXT STORM
OPEN DRAIN	REPLACE OR RE-INSTATE	IF LINING HAS BEEN PUNCTURED / TORN / DAMAGED	PRIOR TO THE NEXT STORM
	DE-SILTING	IF DEPOSITED SEDIMENT HAS REDUCED CAPACITY OF DRAIN & DRAIN IS OVER TOPPING	PRIOR TO THE NEXT STORM

DUST SUPPRESSION

- SHORT TERM
- WATER TRUCK SPRAY.
- LONG TERM
- SOIL STABILISATION (SOIL BINDER OR MULCH).
- GRAVEL COVER.
- TEMPORARY GRASS SEEDING.

NO GO AREAS

- ALL AREAS EXTERNAL TO THE LIMIT OF WORKS BOUNDARY SHOWN ON THE LAYOUT PLANS SHALL BE CONSIDERED AS 'NO GO AREAS'.
- NO MATERIAL STORAGE, VEHICLE TRAFFICKING OR PARKING PERMITTED WITHIN 'NO GO AREAS'.

CPESC CERTIFICATION

CONSTRUCTION TIMING:

COMMENCEMENT DATE: TBC
COMPLETION DATE: TBC

SITE CONTACT:

CONTACT: TBC
MOBILE: TBC

NOTE

- FOR SEDIMENT & EROSION CONTROL LAYOUT PLANS REFER TO SHEET No. DA_C110, DA_C111 AND DA_C112.

EROSION RISK ASSESSMENT - RUSLE - CONSTRUCTION PHASE 1								
CATCHMENT ID	AREA (m2)	R	K	LS	P	C	A(T/ha/yr)	CONTROL REQUIREMENT
C	8,737	15724	0.027	0.19	1.30	1.00	104.86	TYPE 2
D	22,308	15724	0.027	0.19	1.30	1.00	104.86	TYPE 1
E	1,245	15724	0.027	0.19	1.30	1.00	104.86	TYPE 2
F	198	15724	0.027	0.19	1.30	1.00	104.86	TYPE 2

EROSION RISK ASSESSMENT - CONSTRUCTION PHASE 2								
CATCHMENT ID	AREA (m2)	R	K	LS	P	C	A(T/ha/yr)	CONTROL REQUIREMENT
C	1,251	15724	0.027	0.19	1.30	1.00	104.86	TYPE 2
D	748	15724	0.027	0.19	1.30	1.00	104.86	TYPE 2
E	1,245	15724	0.027	0.19	1.30	1.00	104.86	TYPE 2
F	198	15724	0.027	0.19	1.30	1.00	104.86	TYPE 2

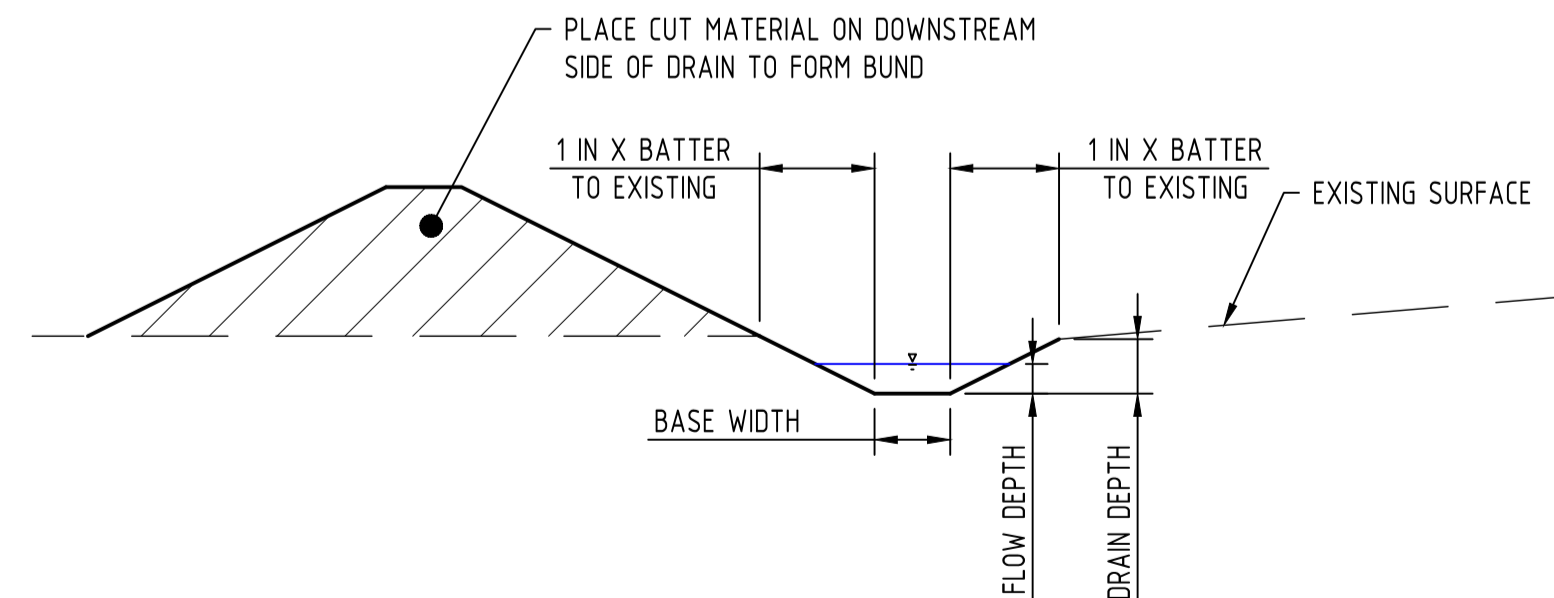
IECA STANDARD DRAWINGS REGISTER

DRAWING NUMBER	DRAWING DESCRIPTION
EXIT-01	CONSTRUCTION EXIT - ROCK PAD
EXIT-02	CONSTRUCTION EXIT - ROCK PAD
RCD-01	CHECK DAMS
R-01	REVEGETATION - GENERAL
CD-01	CATCH DRAINS
DAM-01	COFFERDAM
SF-01	SEDIMENT FENCE
SF-02	SEDIMENT FENCE
MB-01	MULCH BUND
SB-01	SEDIMENT BASINS
SB-02	SEDIMENT BASINS
SB-03	SEDIMENT BASINS
RFD-01	ROCK FILTER DAMS
RFD-02	ROCK FILTER DAMS
MA-01	MESH AND AGGREGATE DROP INLET PROTECTION
MA-02	MESH AND AGGREGATE DROP INLET PROTECTION
SFB-01	SEDIMENT FENCE ISOLATION BARRIER
SFB-02	SEDIMENT FENCE ISOLATION BARRIER

*DRAWINGS TO BE READ IN CONJUNCTION WITH INTERNATIONAL EROSION CONTROL ASSOCIATION AUSTRALASIA (IECA) BEST PRACTICES STANDARD DRAWINGS AND SPECIFICATIONS.


DRAIN SIZING				
	TYPE 1	TYPE 2	TYPE 3	TEMPORARY SEDIMENT BASIN EMERGENCY OVERFLOW DRAIN
DESIGN PEAK FLOW (Q5) m³/s	0.06	0.08	0.04	0.13
VELOCITY (m/s)	0.68	0.76	0.51	1.36
DRAIN LINING *	SOIL (LOW ERODIBILITY)	GEOFAB	SOIL (LOW ERODIBILITY)	GEOFAB
MIN. LONGITUDINAL SLOPE (%)	1.0	0.9	0.4	0.04
FLOW DEPTH (m)	0.05	0.09	0.07	0.07
FREEBOARD (m)	0.15	0.15	0.15	0.15
TOTAL DEPTH (m)	0.2	0.24	0.22	0.22
BATTER (1:X)	3	3	3	4
BASE WIDTH (m)	1.5	1	1	1

* LINING REQUIRED WHEN DRAIN IS CUT IN SOIL. LINING MAY NOT BE REQUIRED IN ROCK AND SHOULD BE CONFIRMED WITH THE SUPERINTENDENT.



TYPICAL DIVERSION/CATCH DRAIN
SCALE 1:50

PRELIMINARY
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B	17.06.21	ISSUED FOR INFORMATION																					
#1	XXXXXXXXX	ISSUED FOR INFORMATION																					
Rev	Date	Description																					
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										Client KTT Investments Pty Ltd		Discipline CIVIL				Status INFORMATION		Title EROSION AND SEDIMENT CONTROL NOTES AND DETAILS SHEET 1 OF 2					
										Project Name LITTLE MINDIL BEACH THE GARDENS, NORTHEN TERRITORY				Designed By HD		Checked By HD		Approved By BL					
										Project No. 23085		Drawn By DG		Scale at A1 AS SHOWN									
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										Drawing No. DA_C115		Revision B											

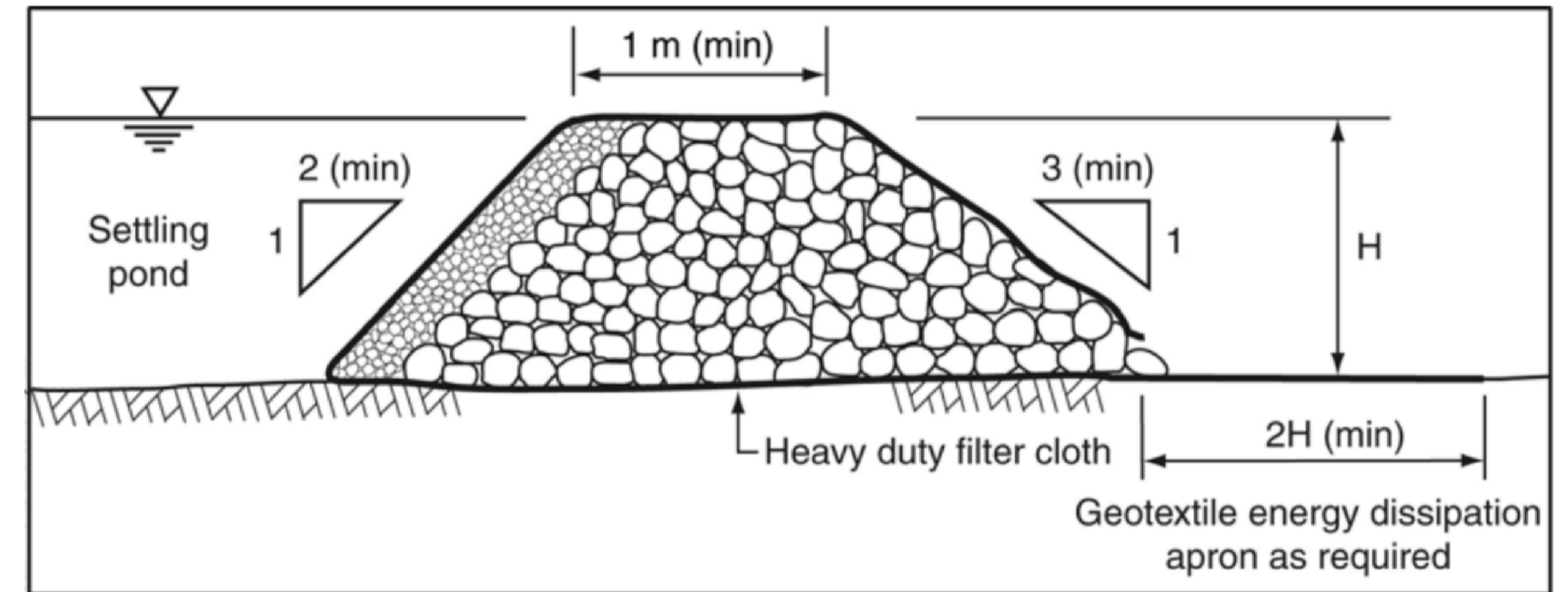
SEDIMENT BASIN SIZING	
IECA CRITERIA	BASIN 1
BASIN I.D.	BASIN 1
BASIN TYPE	TYPE D BASIN
CATCHMENT AREA (ha)	2.2
I (1yr, 120hr) (mm/hr)	1.93
Y%	80%
K1	17.0
K2	11.2
R(80%) (mm)	35.9
Cv	1.0
SETTLING ZONE VOLUME (m ³)	790
SEDIMENT STORAGE VOLUME (m ³)	46
BATTER GRADIENT	MIN 1 IN 3
TOTAL BASIN DEPTH (m)	0.9
SETTLING DEPTH (m)	0.6
SEDIMENT STORAGE DEPTH (m)	0
BASIN AREA (m ²)	928
SIZED BASIN AREA (m ²)	5421

NOTE
 1. FOR SEDIMENT & EROSION CONTROL LAYOUT PLANS REFER TO SHEET No. DA_C110, DA_C111 & DA_C112

- NOTES:
1. BASIN SIZING CALCULATED IN ACCORDANCE WITH APPENDIX B OF 'IECA BEST PRACTICE EROSION AND SEDIMENT CONTROL' GUIDELINES (2008).
 2. EXISTING BASIN WAS DESIGNED BY SMEC AND HAS PREVIOUSLY BEEN APPROVED AND CONSTRUCTED. EXISTING BASIN DESIGN ACCOUNTED FOR PORTION OF PRECINCT C. REFER SMEC PRECINCT B DRAWINGS FOR DETAILS

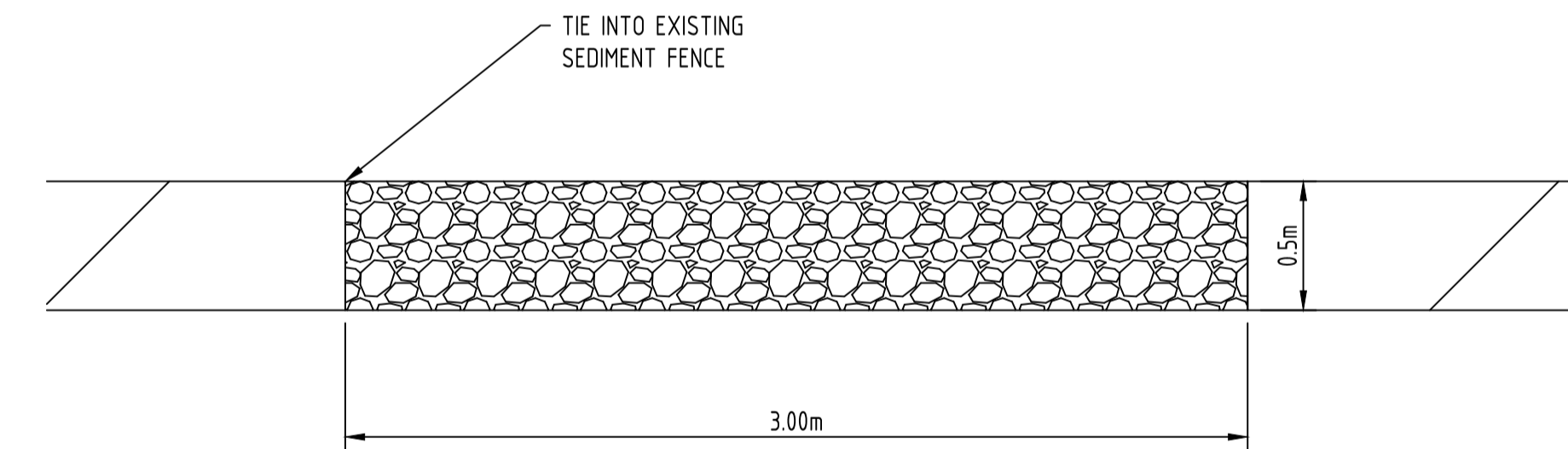
ROCK FILTER DAM SIZING	
ITEM	VALUE
CATCHMENT AREA (ha)	2.2
I (1 year, 5 min) mm/hr	14.7
DESIGN PEAK FLOW (Q) m ³ /s	0.06
Q ₁ m ³ /s	0.117
Q ₅ m ³ /s	0.213
Q _{WER} m ³ /s	0.096

CPECS CERTIFICATION

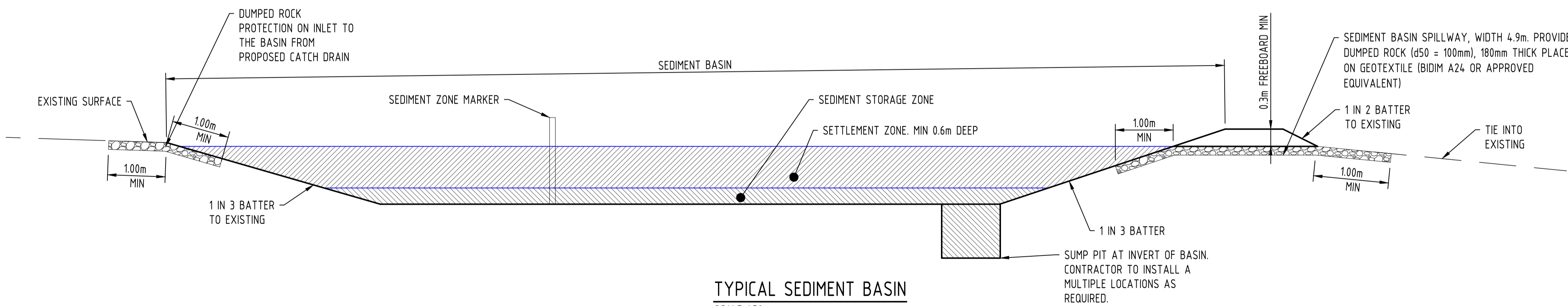


TYPICAL ROCK FILTER DAM DETAILS
 NTS

SEDIMENT BASIN OPERATION - TYPE D BASINS	
CRITERIA	REQUIREMENT
DESIRABLE WATER LEVEL BEFORE A STORM	FULLY DRAINED
ALLOWABLE INTER-STORM BASIN LEVEL DURING SPECIFIC SEASONAL OR WEATHER CONDITIONS	MAY RETAIN WATER BETWEEN STORMS, MUST BE DE-WATERED PRIOR TO ANY STORM THAT IS LIKELY TO PRODUCE RUNOFF
DE-WATERING SYSTEM	PUMP, SIPHON OR FLOATING DECANT. SEDIMENT BASIN WATER MUST BE TREATED (VIA COAGULANT OR FLOCCULENT) PRIOR TO DE-WATERING AND DE-WATER MUST BE COMPLETED FROM TOP DOWN TO PREVENT THE SUCKING UP OF SEDIMENT ON THE BOTTOM OF BASIN. DEWATERING MUST COMPLY WITH THE SEDIMENT RELEASE GUIDELINES ON SHEET C100
CHEMICAL TREATMENT	AUTOMATIC OR MANUAL DOSING A SITE SPECIFIC DOSAGE FOR FLOCCULANT OR COAGULANT MUST BE DETERMINED TO DEFINE DOSAGE TO ACHIEVE WATER RELEASE TARGETS (REFER DRG DA-C115)
TREATED WATER	TREATED WATER MAY BE USED ON SITE OR DISCHARGED FROM SITE IN ACCORDANCE WITH THE SEDIMENT RELEASE GUIDELINES ON DRG DA_C115
DE-SILTING	DE-SILTING IS REQUIRED IF THE NEXT STORM IS LIKELY TO CAUSE THE SETTLED SEDIMENT TO RISE ABOVE THE MARKER POINT, OR THE SETTLED SEDIMENT HAS EXCEEDED 90% OF THE NOMINATED SEDIMENT STORAGE VOLUME
REPORTING	REPORTS SHALL BE KEPT OF BASIN PERFORMANCE AND MAINTENANCE



ROCK FILTER DAM SECTION
 SCALE NTS



TYPICAL SEDIMENT BASIN
 SCALE 1:50

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Client	KTT Investments Pty Ltd
Project Name	LITTLE MINDIL BEACH THE GARDENS, NORTHERN TERRITORY

Discipline	CIVIL	Status	INFORMATION
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Project No.	23085	Drawn By	DG
Approved By		BL	
Scale at A1		AS SHOWN	

Title	EROSION AND SEDIMENT CONTROL NOTES AND DETAILS SHEET 2 OF 2
Drawing No.	DA_C116
Revision	B