

SEDIMENT BASIN SIZING	
IECA CRITERIA	
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

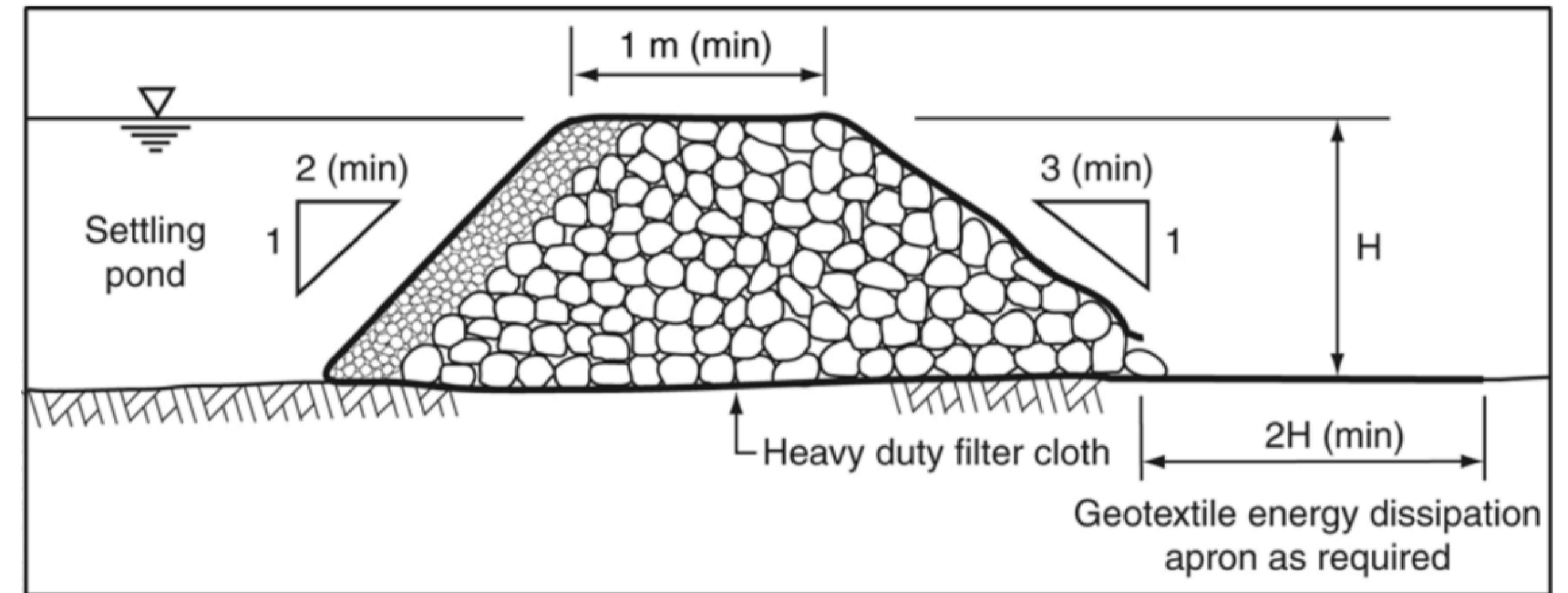
1. FOR SEDIMENT & EROSION CONTROL LAYOUT PLANS REFER TO SHEET No. DA_C110, DA_C111 & DA_C112

- NOTES:
- BASIN SIZING CALCULATED IN ACCORDANCE WITH APPENDIX B OF 'IECA BEST PRACTICE EROSION AND SEDIMENT CONTROL' GUIDELINES (2008).
 - 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

CPESC CERTIFICATION

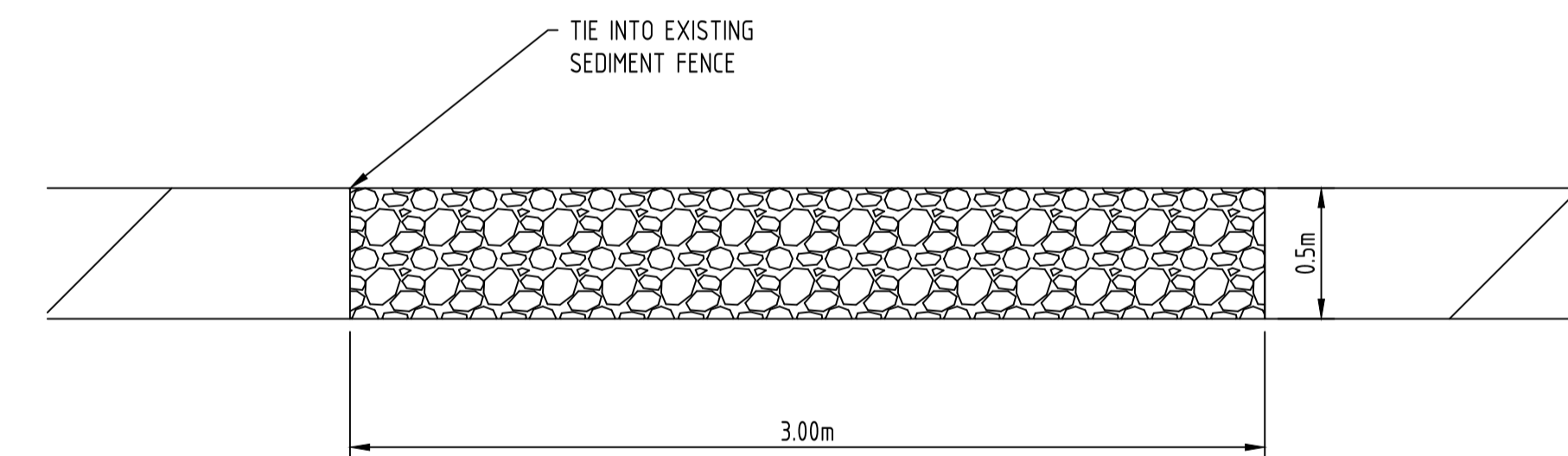
Mr Sam Warner
 B(Eng)(Hons) MIEAust, CPEng, NER, CPESC
 Signature: _____
 Date: 1.06.2021
 CPESC #: 9562



TYPICAL ROCK FILTER DAM DETAILS

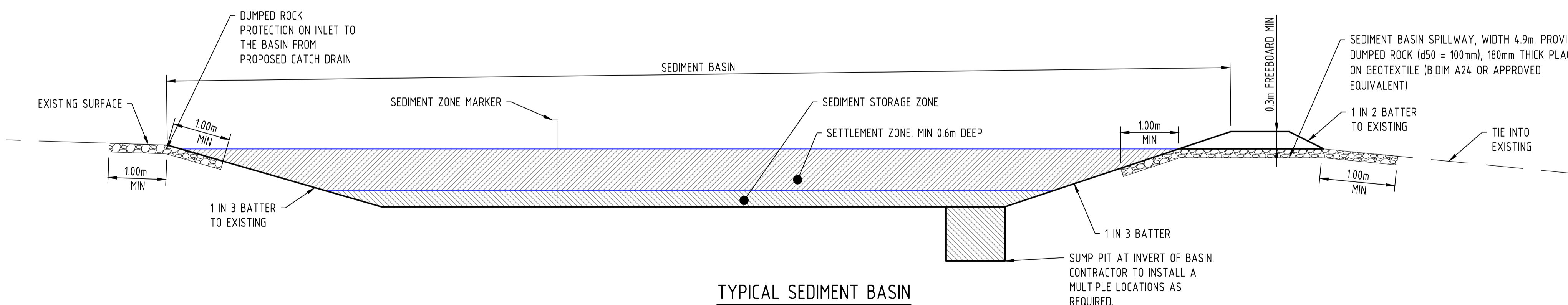
NTS

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

PRELIMINARY
NOT FOR CONSTRUCTION

Rev	Date	Description	By	Chk
01	XX/XX/XX	ISSUE FOR INFORMATION	JXX	HXX



Client Arthur Winston Investments Pty Ltd	Discipline CIVIL	Status INFORMATION	Title EROSION AND SEDIMENT CONTROL NOTES AND DETAILS SHEET 2 OF 2
Project Name LITTLE MINDIL BEACH THE GARDENS, NORTHERN 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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LEGEND

- 12.0--- EXISTING SURFACE CONTOURS
- - -12.0- - - PROPOSED FINISHED SURFACE CONTOURS
- [Pattern] EXISTING ROAD
- [Line] SITE BOUNDARY
- [Green Line] SWD PROPOSED STORMWATER DRAINAGE (INDICATIVE LOCATION ONLY)
- [Blue Arrow] PROPOSED SWALE DISCHARGE
- [Blue Box] PROPOSED FOOTPATH
- [Grey Box] PROPOSED ROAD PAVEMENT
- [Cross-hatch] PROPOSED 'NO GO ZONE'
- [Light Green] PROPOSED LAGOON AREA
- [Red] PROPOSED TEMPORARY SEDIMENT BASIN
- [Diagonal Lines] PROPOSED TEMPORARY STOCKPILE
- [Square] PROPOSED STORMWATER PIT
- [Cross-hatch] FIELD INLET SEDIMENT BARRIER (FOR CLEAN WATER DIVERSION)
- [Grid] TEMPORARY IMPERMEABLE COVER FOR STORMWATER INLET PIT
- [Blue Line] SF SEDIMENT FENCE (INDICATIVE LOCATION)
- [Orange Line] EARTH BUND
- [RFD] ROCK FILTER DAM
- [LS] LEVEL SPREADER
- [Circles] CATCH DRAIN
- TIMOR SEA

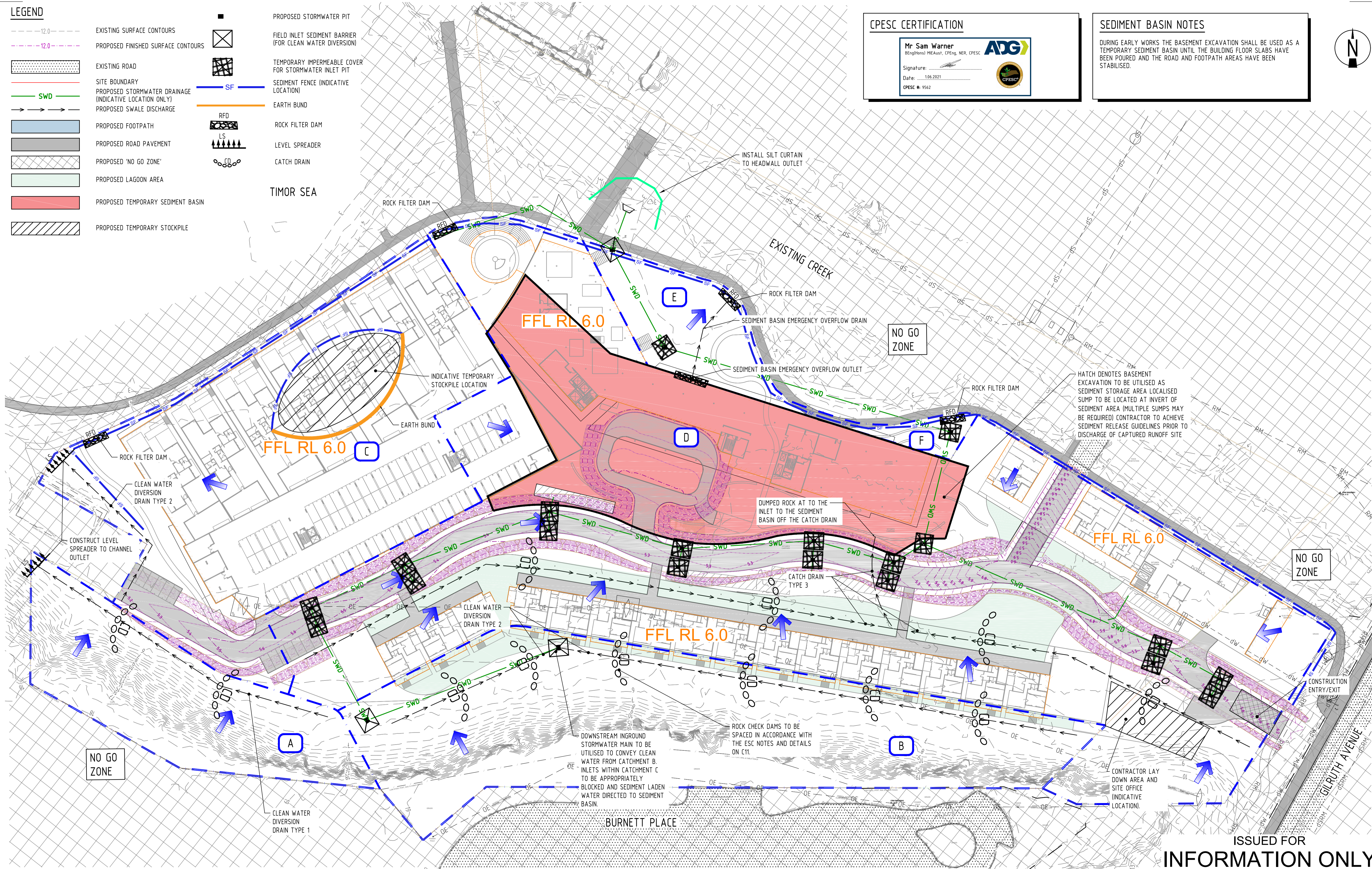
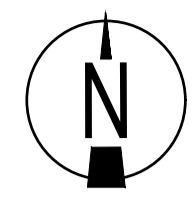
CPESC CERTIFICATION

Mr Sam Warner
 BEng(Hons)1 MIEAust, CPEng, NER, CPESC

Signature: _____
 Date: 1.06.2021
 CPESC #: 9562

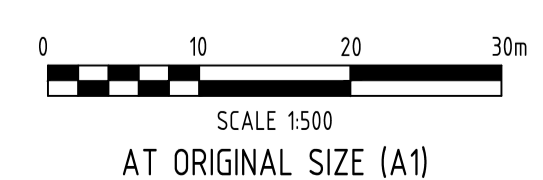
SEDIMENT BASIN NOTES

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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A	1.06.21	ISSUED FOR INFORMATION	JL	HD



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 SUNSHINE COAST / SYDNEY / TOOWOOMBA

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

Discipline	Checked By	Status
CIVIL <td>HD <td>INFORMATION </td></td>	HD <td>INFORMATION </td>	INFORMATION
Designed By	HD <td>Approved By</td>	Approved By
Project No. 23085	Drawn By DG	Scale at A1 AS SHOWN

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

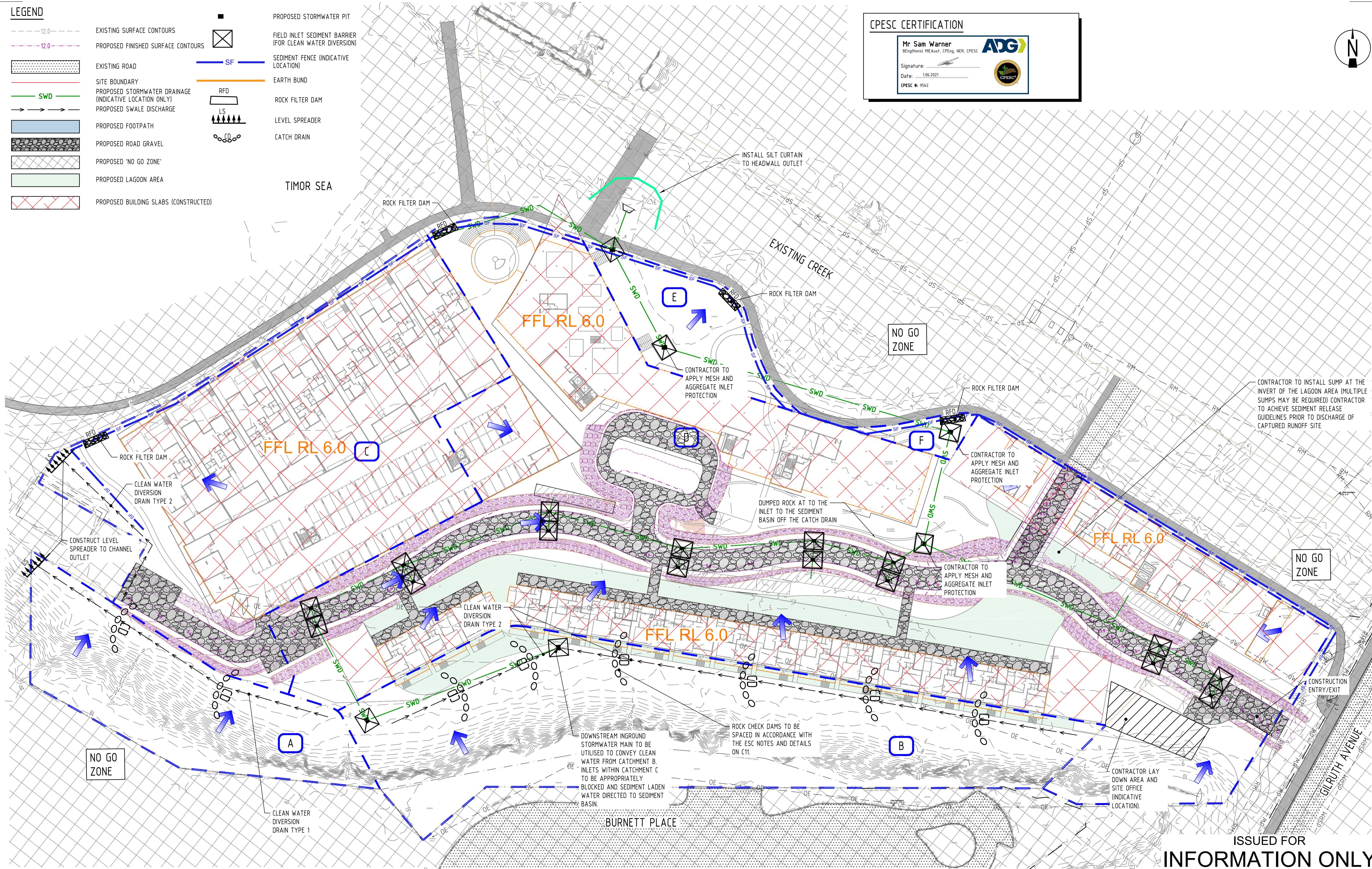
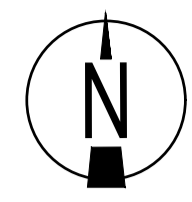
LEGEND

- EXISTING SURFACE CONTOURS
- PROPOSED FINISHED SURFACE CONTOURS
- EXISTING ROAD
- SITE BOUNDARY
- PROPOSED STORMWATER DRAINAGE (INDICATIVE LOCATION ONLY)
- PROPOSED SWALE DISCHARGE
- PROPOSED FOOTPATH
- PROPOSED ROAD 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

CPESC CERTIFICATION

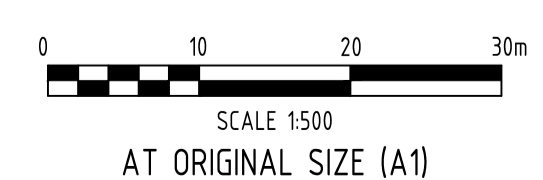
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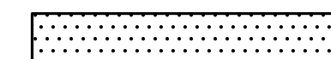












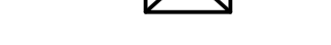
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Client: Arthur Winston Investments Pty Ltd
 Project Name: LITTLE MINDIL BEACH THE GARDENS, NORTHERN TERRITORY

Discipline: CIVIL	Status: INFORMATION
Designed By: HD	Checked By: HD
Project No: 23085	Drawn By: DG
Title: EROSION AND SEDIMENT CONTROL LAYOUT PLAN CONSTRUCTION STAGE - PHASE 2	
Approved By: BL	
Scale at A1: AS SHOWN	

Drawing No: DA_C111	Revision: A
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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 VEGETATION AREA
-  PROPOSED BUILDING AREA
-  PROPOSED LAGOON AREA
-  PROPOSED STORMWATER PIT
-  FIELD INLET SEDIMENT BARRIER
-  SF SEDIMENT FENCE (INDICATIVE LOCATION)
-  RFD ROCK FILTER DAM
-  LS LEVEL SPREADER

CPESC CERTIFICATION

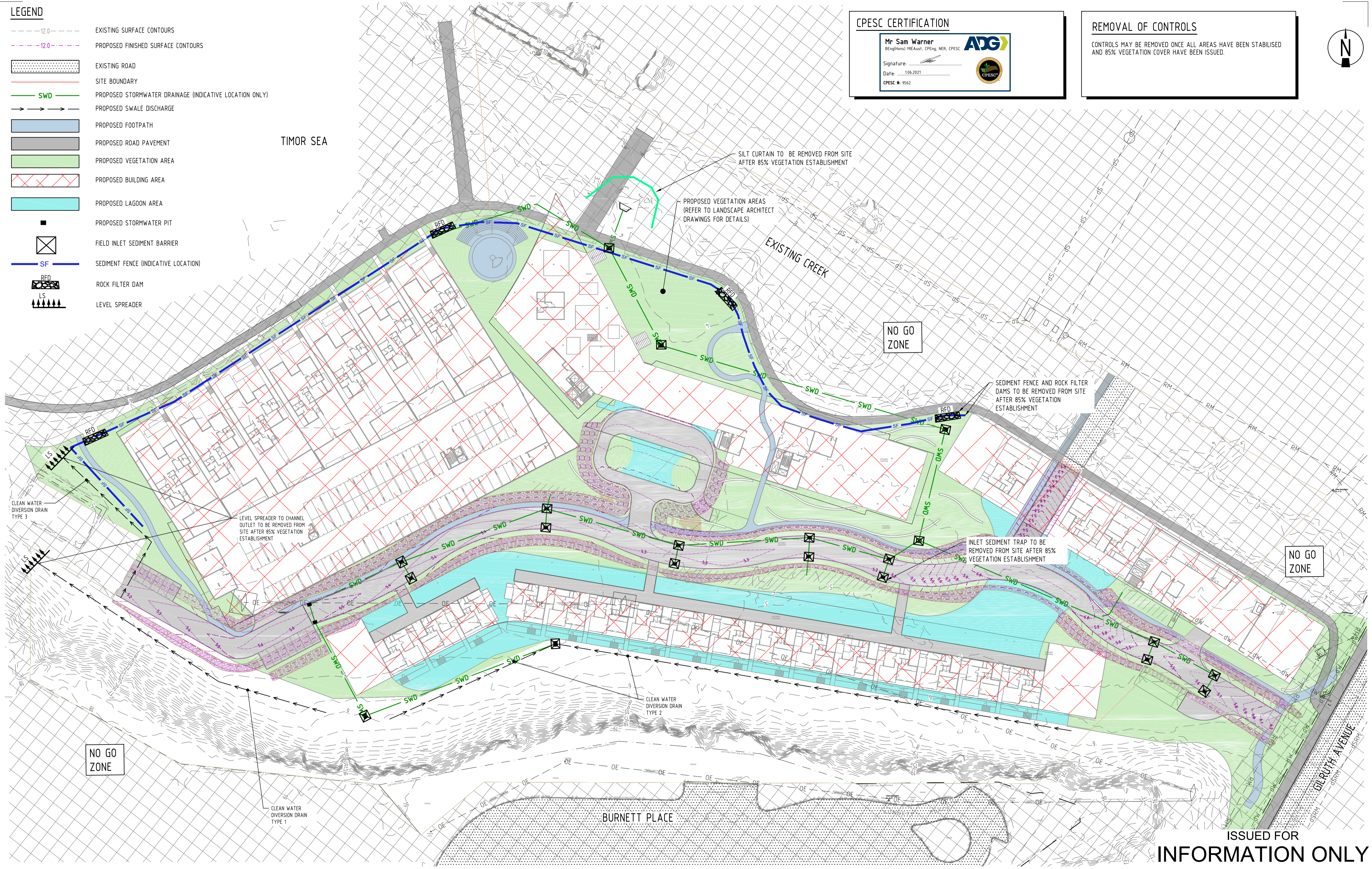
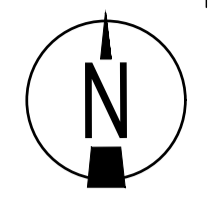
Mr Sam Warner
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Signature: _____
 Date: 1.06.2021
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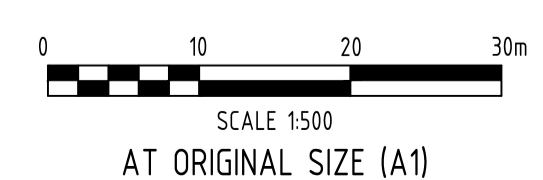
REMOVAL OF CONTROLS

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



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