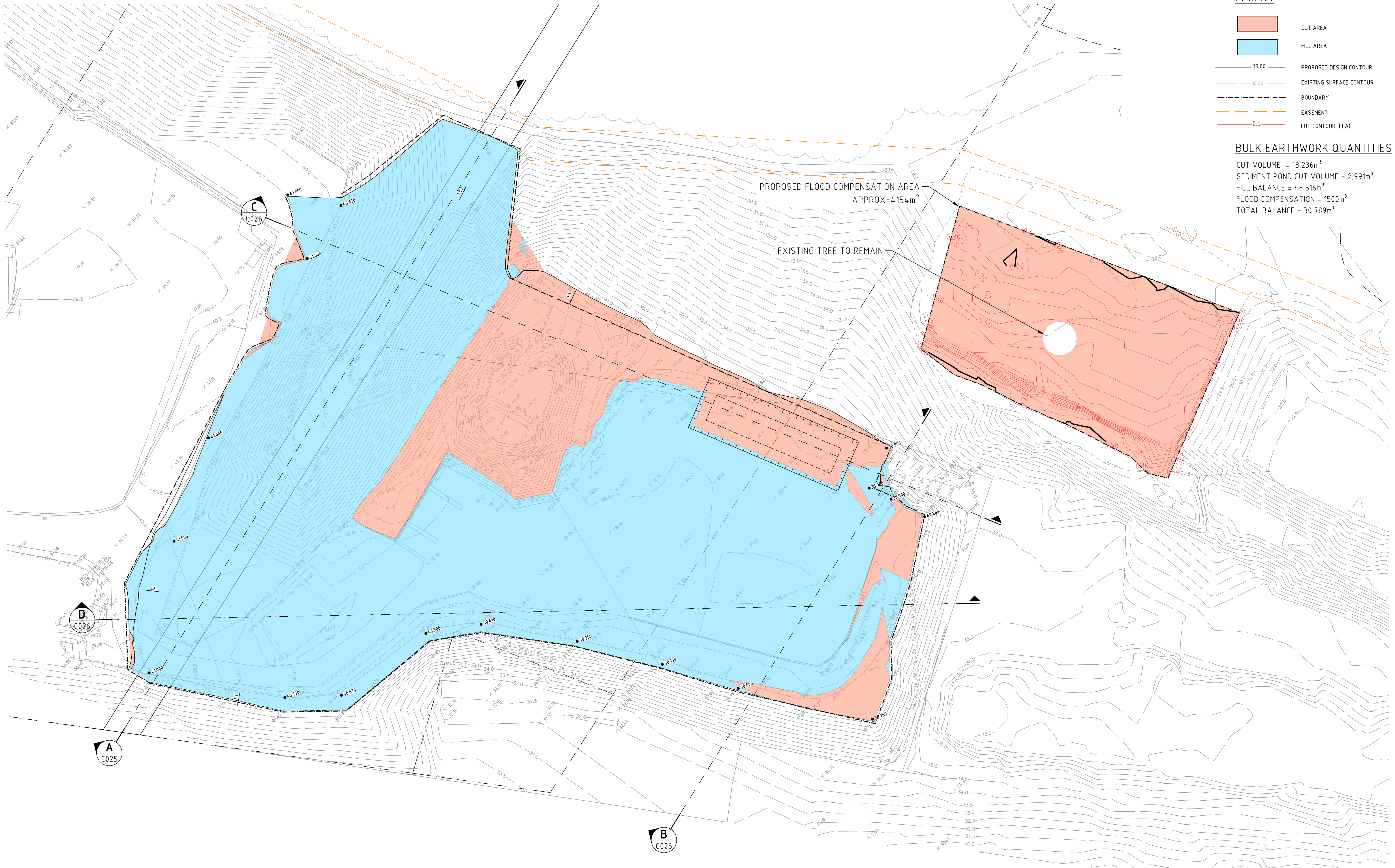




LEGEND

- CUT AREA
- FILL AREA
- 39.00 PROPOSED DESIGN CONTOUR
- 30.00 EXISTING SURFACE CONTOUR
- BOUNDARY
- EASEMENT
- 0.5 CUT CONTOUR (FCA)

BULK EARTHWORK QUANTITIES

CUT VOLUME = 13,236m³
SEDIMENT POND CUT VOLUME = 2,991m³
FILL BALANCE = 48,516m³
FLOOD COMPENSATION = 1500m³
TOTAL BALANCE = 30,789m³

1:500 (A1) 1:1000 (A3) 0 5 10 15 20 25 30 35 40 45 50 m

ISSUE	REVISION	DATE	INITIAL
C	ISSUE FOR 95% DA APPROVAL	31.07.20	PS
B	ISSUE FOR 90% DA APPROVAL	27.07.20	PS
A	ISSUE FOR DA APPROVAL	15.05.20	PS

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Sydney, NSW, Australia
www.wsp.com

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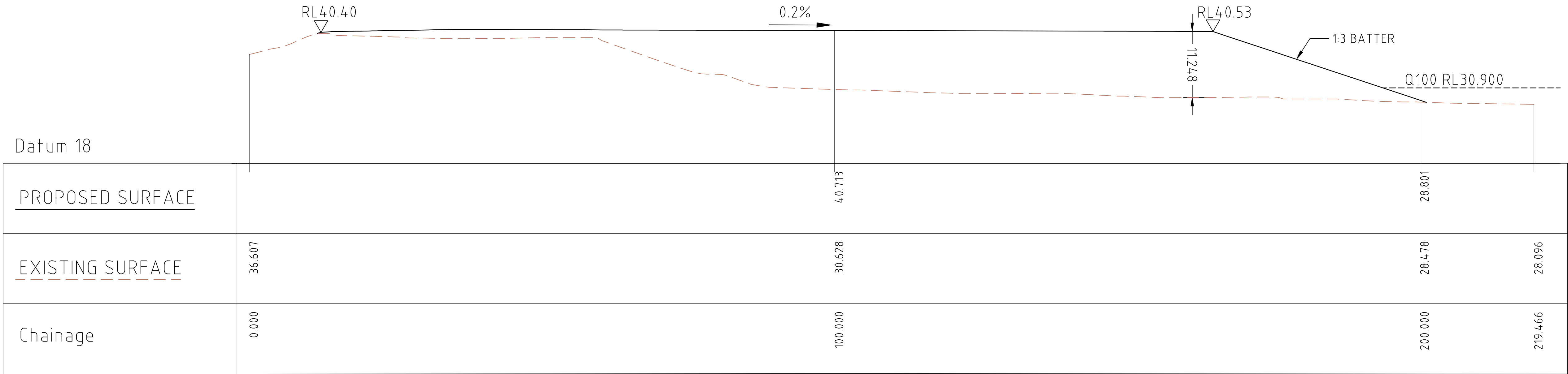
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FAIRFIELD SUSTAINABLE RESOURCE CENTRE
WIDEMERE RD AND HASSELL ST

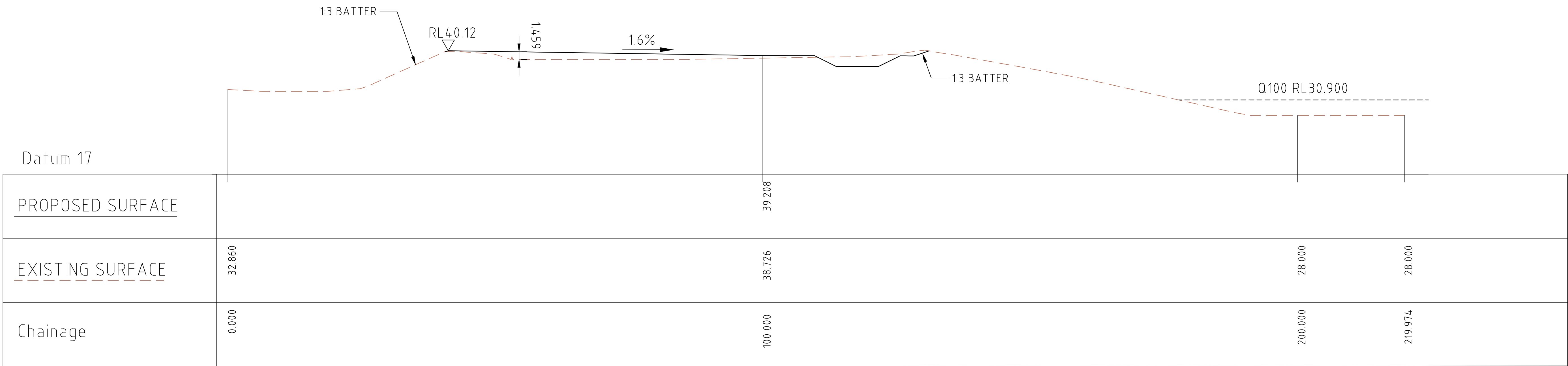
EXPANDED AREA
BULK EARTHWORK PLAN

CIVIL DRAWING

Designed: PS	Approved: STEVE NOVAK	North Issue
Drawn: MR	Project Engineer/Director: Date: 15/05/2020	
Scale: 1:500	Project No: Drawing No:	
Date: APRIL 2020	PS102981 C021	



SECTION A
SCALE 1:400
C020



SECTION B
SCALE 1:400
C020

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FAIRFIELD SUSTAINABLE RESOURCE CENTRE
WIDEMERE RD AND HASSELL ST

EARTHWORKS CROSS-SECTIONS
SHEET 1 OF 2

CIVIL DRAWING			
Designed: PS	Approved: STEVE NOVAK	North	
Drawn: MR	Project Engineer/Director:	Date: 15/05/2020	Issue
Scale: 1:400	Project No:	Drawing No:	
Date: APRIL 2020	PS102981	C025	C

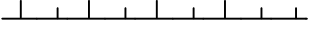
LEGEND



EXISTING FALL



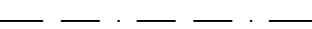
PROPOSED FALL



EXISTING TOP OF BATTER



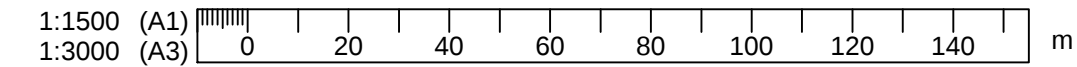
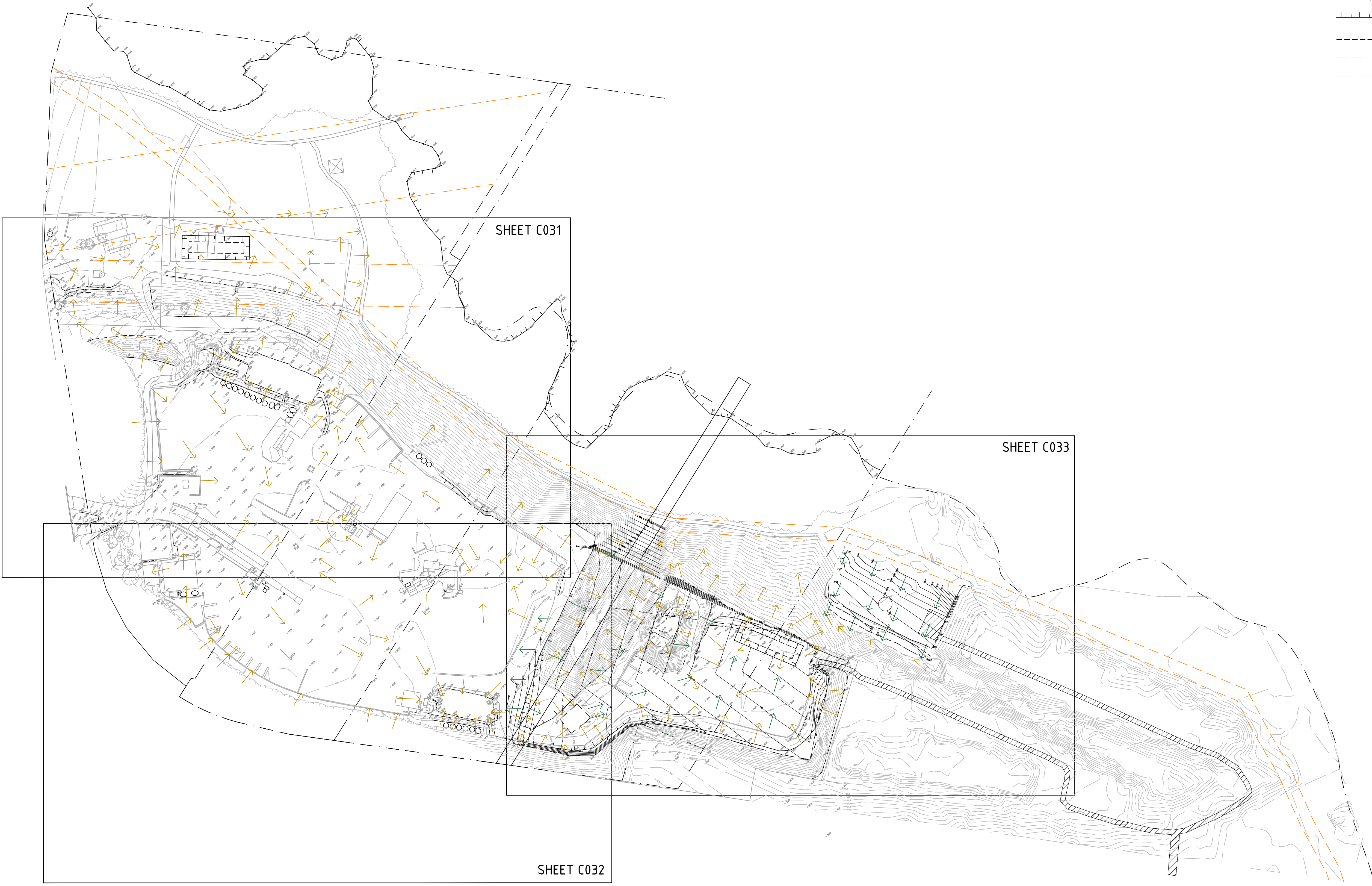
EXISTING BOTTOM OF BATTER



BOUNDARY



EASEMENT



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B	ISSUE FOR 90% DA APPROVAL	27.07.20	PS
A	ISSUE FOR DA APPROVAL	15.05.20	PS
ISSUE	REVISION	DATE	INITIAL



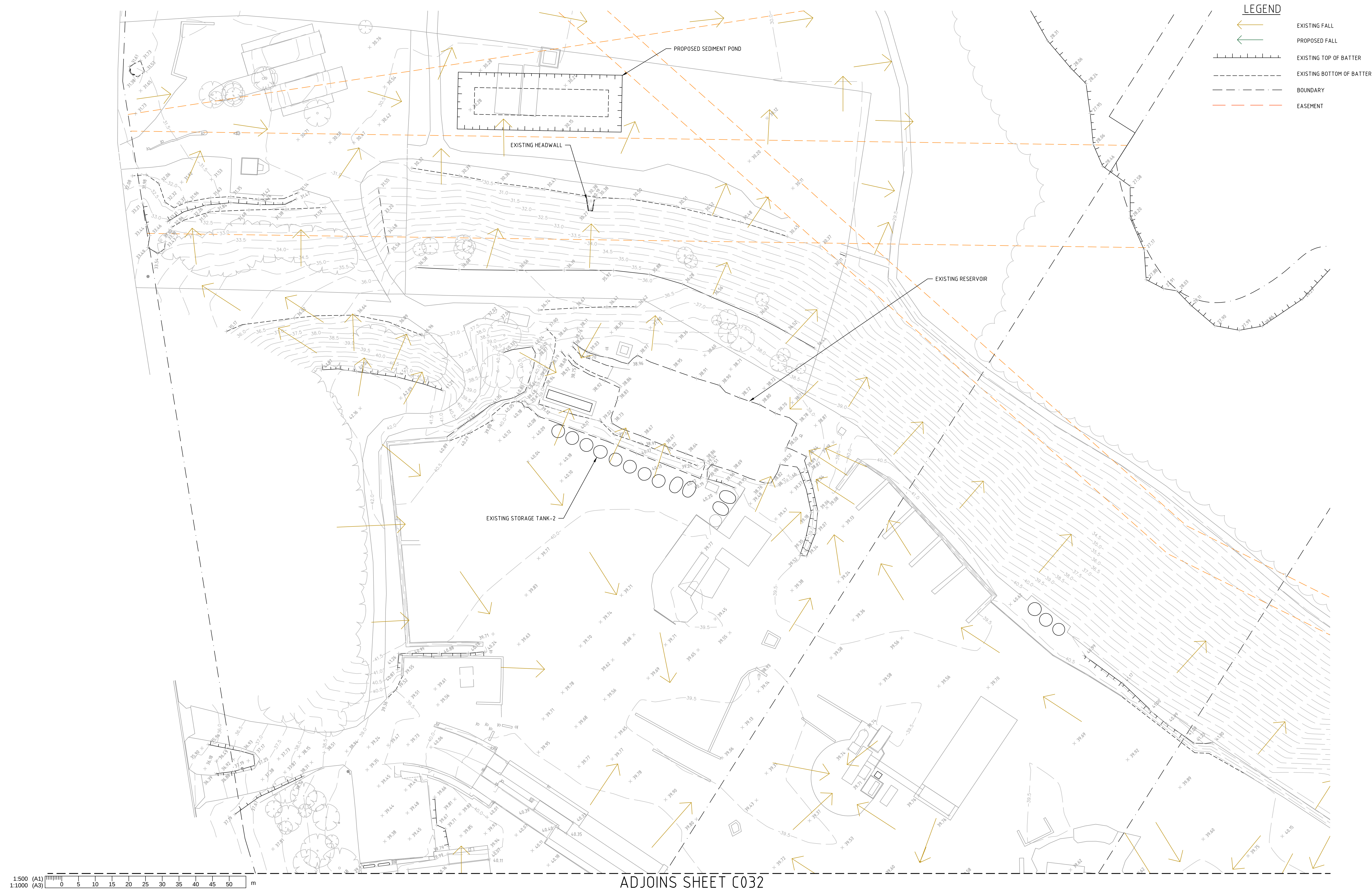
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FAIRFIELD SUSTAINABLE RESOURCE CENTRE
WIDEMERE RD AND HASSELL ST

EXISTING OVERLAND FLOW
OVERALL PLAN

CIVIL DRAWING			
Designed: PS	Approved: STEVE NOVAK		North
Drawn: MR	Project Engineer/Director:		Issue
Scale: 1:1500	Project No:		Issue
Date: APRIL 2020			Issue
	PS102981	C030	C



C	ISSUE FOR 95% DA APPROVAL	31.07.20	PS
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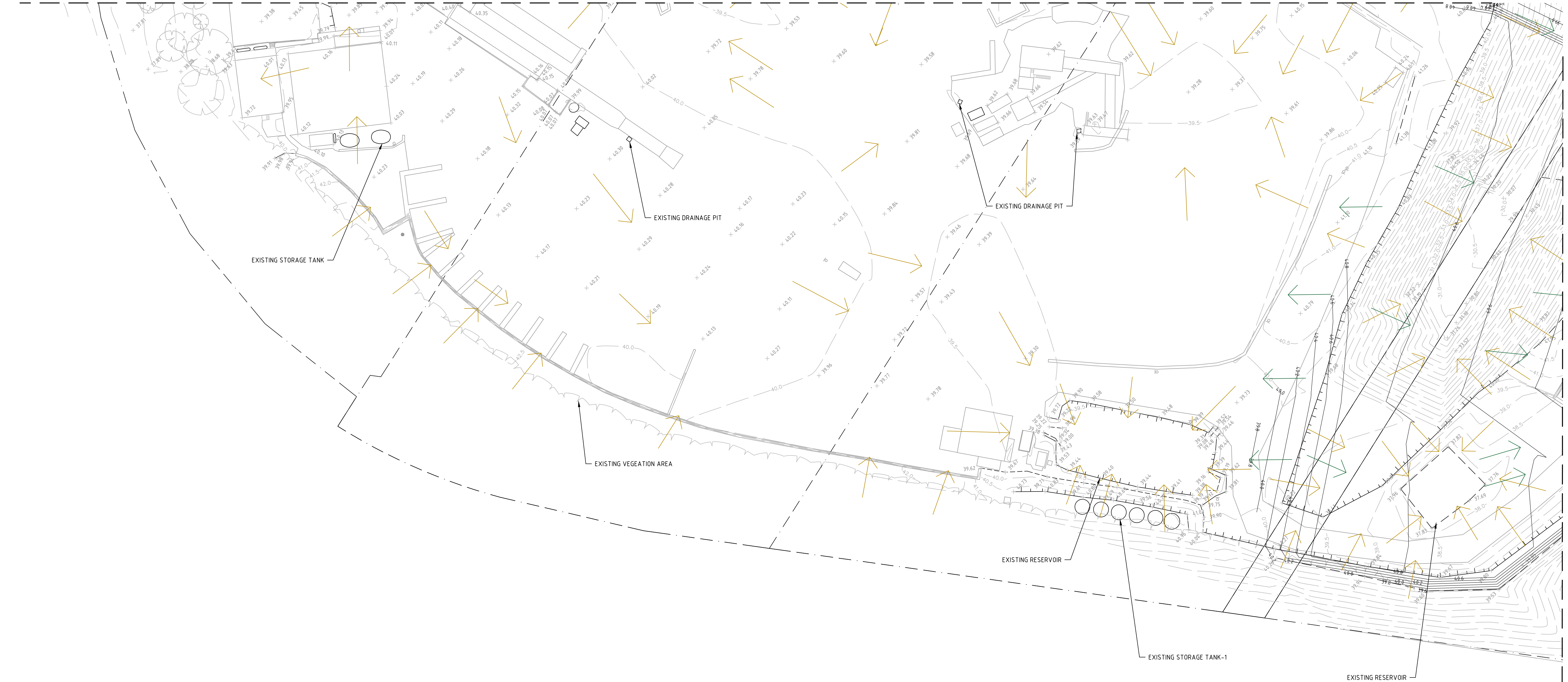
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FAIRFIELD SUSTAINABLE RESOURCE CENTRE
WIDEMERE RD AND HASSELL ST

EXISTING OVERLAND FLOW PLAN
SHEET 1 OF 3

CIVIL DRAWING

Designed: PS	Approved: - STEVE NOVAK		 North Issue
Drawn: MR	Project Engineer/Director:	Date: 15/05/2020	
Scale: 1:500	Project No:	Drawing No:	
Date: APRIL 2020	PS102981	C031	



LEGEND

EXISTING FALL

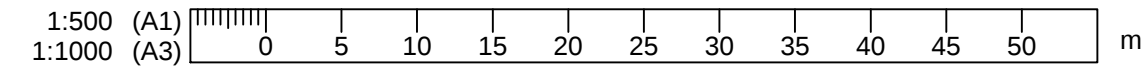
PROPOSED FALL

EXISTING TOP OF BATTER

EXISTING BOTTOM OF BATTER

BOUNDARY

EASEMENT



C	ISSUE FOR 95% DA APPROVAL	31.07.20	PS
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FAIRFIELD SUSTAINABLE RESOURCE CENTRE
WIDEMERE RD AND HASSELL ST

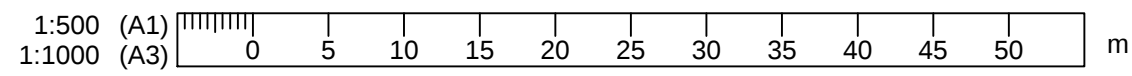
EXISTING OVERLAND FLOW PLAN
SHEET 2 OF 3

CIVIL DRAWING

Designed: PS	Approved: - STEVE NOVAK			
Drawn: MR	Project Engineer/Director:	Date: 15/05/2020		North
Scale: 1:500	Project No:	Drawing No:		Issue
Date: APRIL 2020	PS102981	C032		C

C

ADJOINS SHEET C032 & C033



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FAIRFIELD SUSTAINABLE RESOURCE CENTRE
WIDEMERE RD AND HASSELL ST

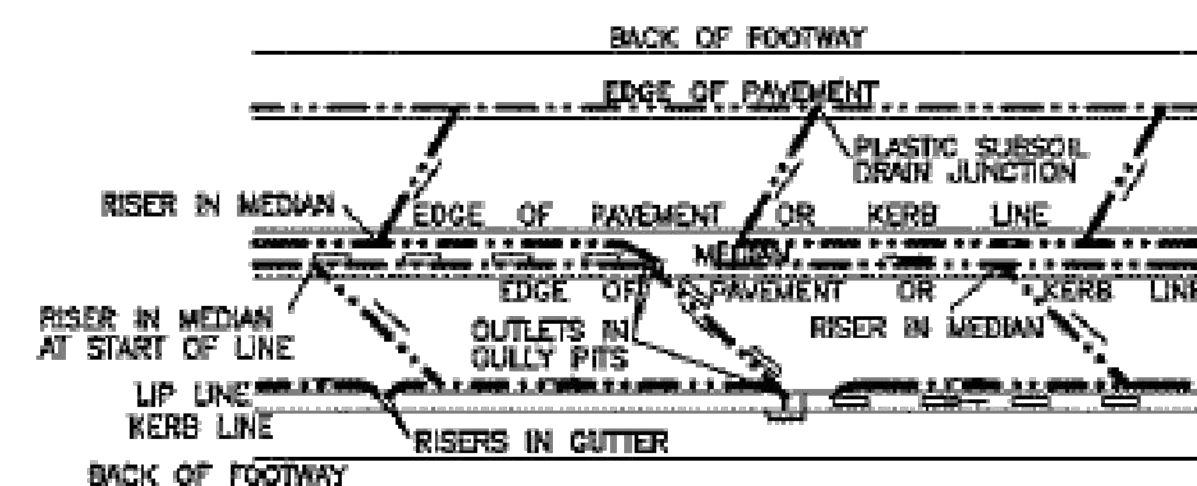
EXISTING OVERLAND FLOW PLAN
SHEET 3 OF 3

CIVIL DRAWING

Designed: PS	Approved: - STEVE NOVAK		 North Issue C
Drawn: MR	Project Engineer/Director:	Date: 15/05/2020	
Scale: 1:500	Project No:	Drawing No:	
Date: APRIL 2020	PS102981	C033	

C

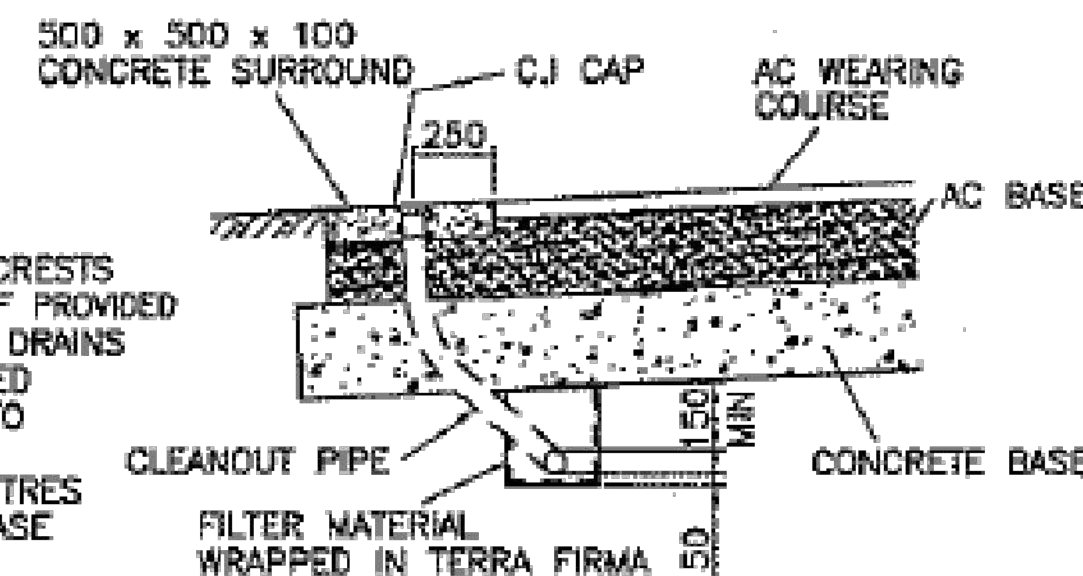
TYPICAL LOCATIONS OF SUBSOIL DRAINAGE IN URBAN ROADS



PLAN

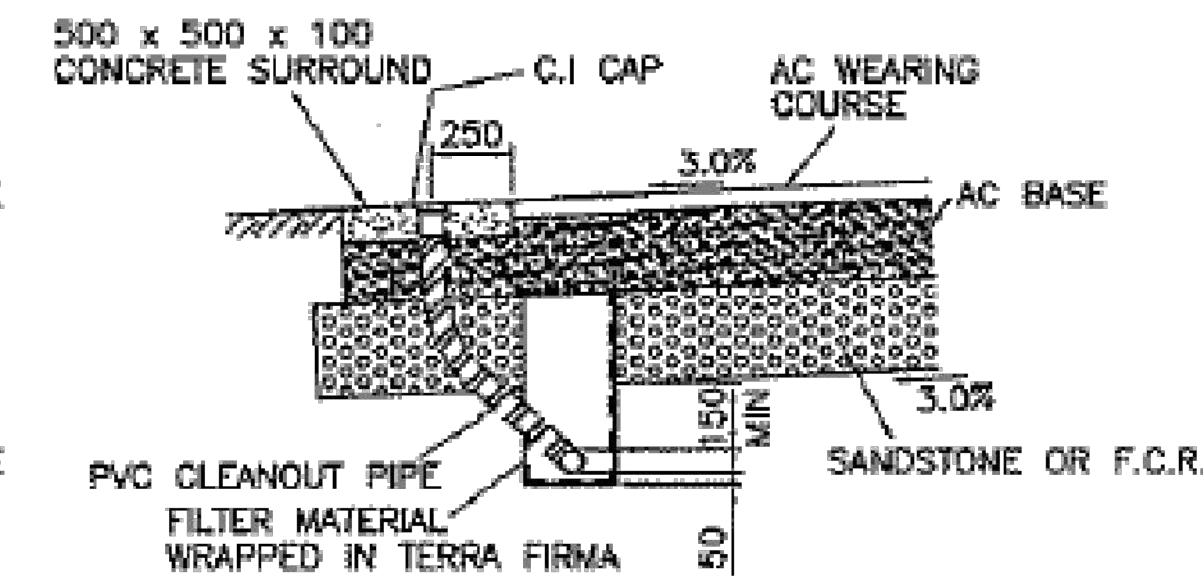
- NOTE:
1. RISERS (SEE FCC STD) TO BE PROVIDED AT:
(a) COMMENCEMENT OF LINES AT CRESTS
(b) 100M INTERVALS WHERE NO RELIEF PROVIDED
(c) MEDIAN END OF HERRINGBONE DRAINS
 2. PLASTIC COUPLERS ARE TO BE USED TO CONNECT SUB-SOIL DRAINS INTO GULLY PITS
 3. HERRINGBONE DRAINS AT 15m CENTRES WHERE A CONCRETE SUB-BASE, BASE OR SURFACE IS NOT PROVIDED

SUBSOIL DRAIN CLEANOUTS FOR RIGID PAVEMENT



SUBSOIL CLEANOUT AT EDGE OF PAVEMENT

SUBSOIL DRAIN CLEANOUTS FOR FLEXIBLE PAVEMENT WITH PVC PIPES



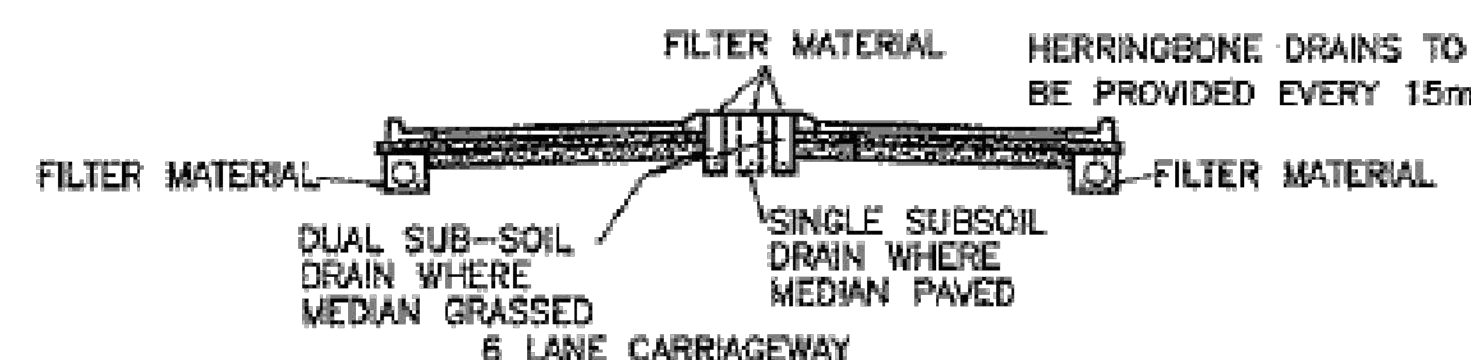
SUBSOIL CLEANOUT AT EDGE OF PAVEMENT

SECTIONS

1. SUB-BASE OF SANDSTONE

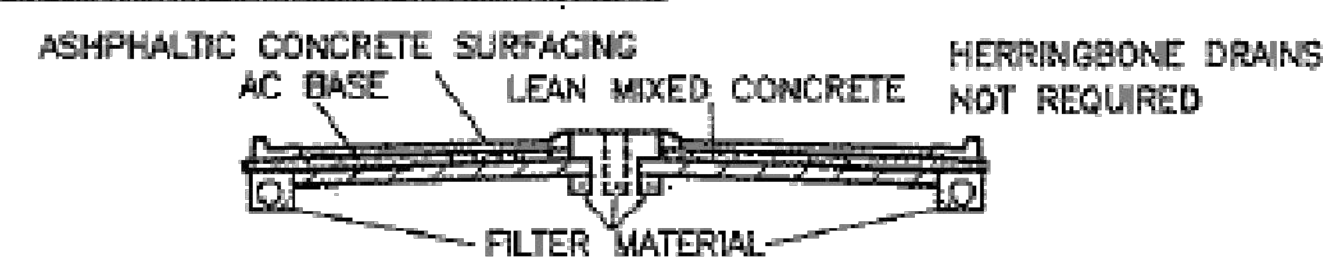


4 LANE CARRIAGEWAY

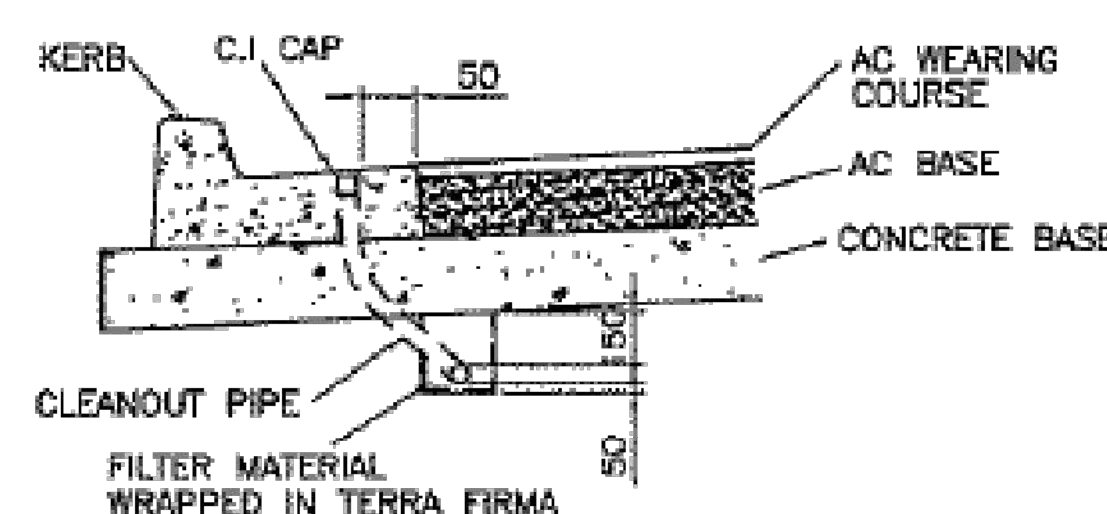


6 LANE CARRIAGEWAY

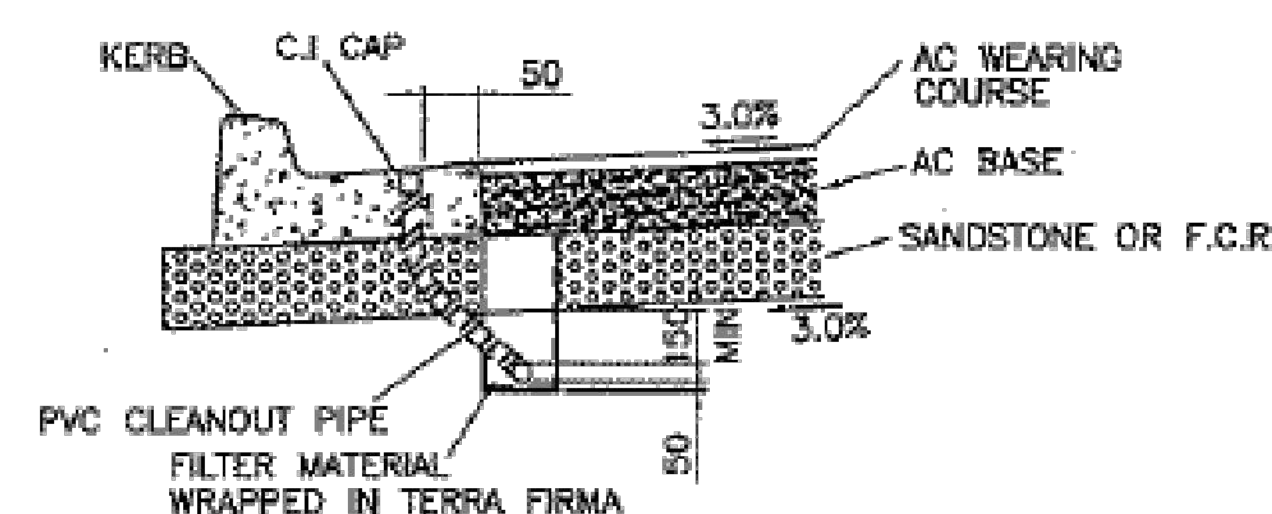
2. SUB-BASE OF LEAN MIXED CONCRETE



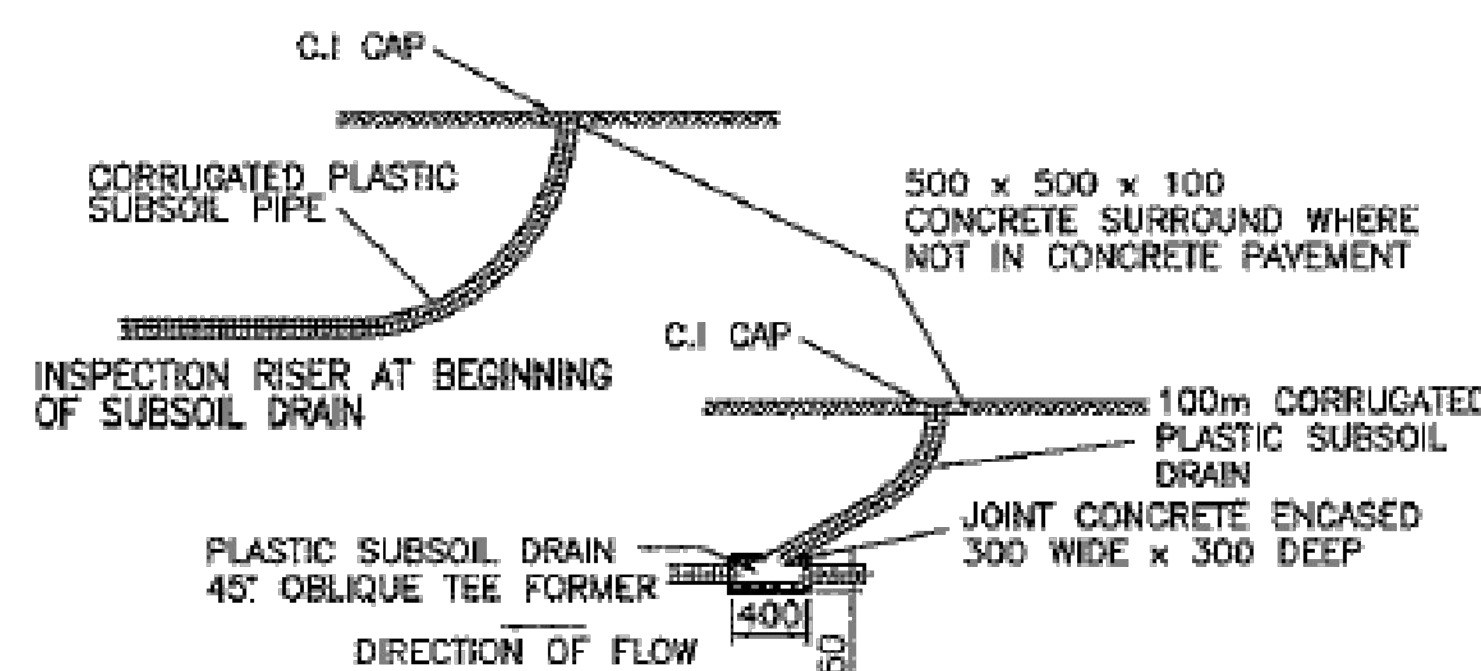
3. CONCRETE PAVEMENT



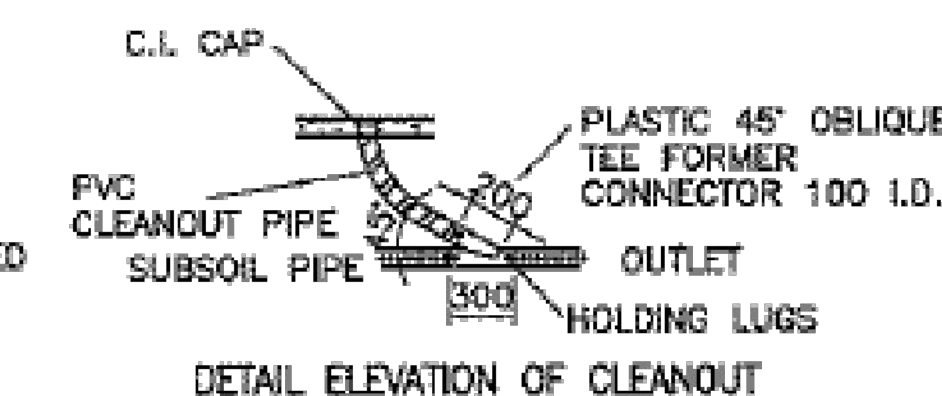
SUBSOIL CLEANOUT IN KERB & GUTTER OR MOUNTABLE KERB



SUBSOIL CLEANOUT IN KERB & GUTTER OR MOUNTABLE KERB



DETAIL ELEVATION OF CLEANOUT



DETAIL ELEVATION OF CLEANOUT

- NOTE:
1. SUBSOIL LINES TO BE ENCLOSED WITH DRAIN SOCK.
 2. ALL C.I. INSPECTION CAPS TO BE HINGED.

No.	REVISION	DATE	INIT'S	SCALE	N.T.S.	DATUM	N.A.	ACAD FILE	P:\ACAD\STD-DWG\S214
				RECOMMENDED					
				FOR					
				APPROVAL	DESIGN ENGINEER	DATE:			
				APPROVED	MAN - ENGINEERING SERVICES	DATE:			
DESIGN:		DRAWN:	K.L.S.	12.00					

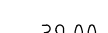
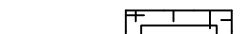
FAIRFIELD CITY COUNCIL

SUBSOIL DRAINAGE

S-214

SHEET NO. 1 OF 1
REV'N NO.

C	ISSUE FOR 95% DA APPROVAL	31.07.20	PS
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ISSUE	REVISION	DATE	INITIAL



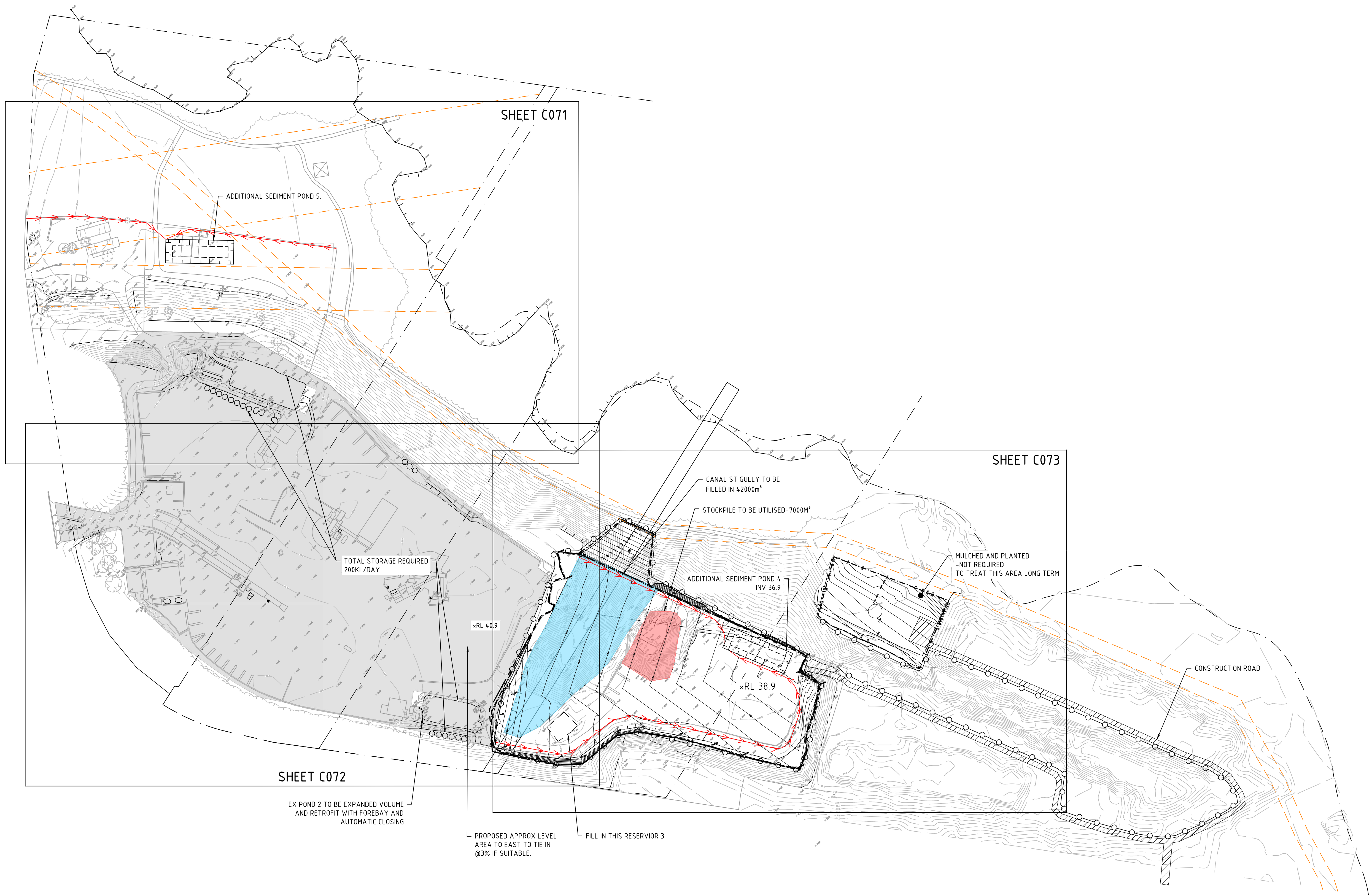
ADJUSTING STOCKPILE TO BE

CONTENT OF EXPANSION IDEAS

CONTENT OF WORKS

MANAGEMENT

SEDIMENT FENCE



1:1500 (A1) 1:3000 (A3) m

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FAIRFIELD SUSTAINABLE RESOURCE CENTRE
WIDEMERE RD AND HASSELL ST

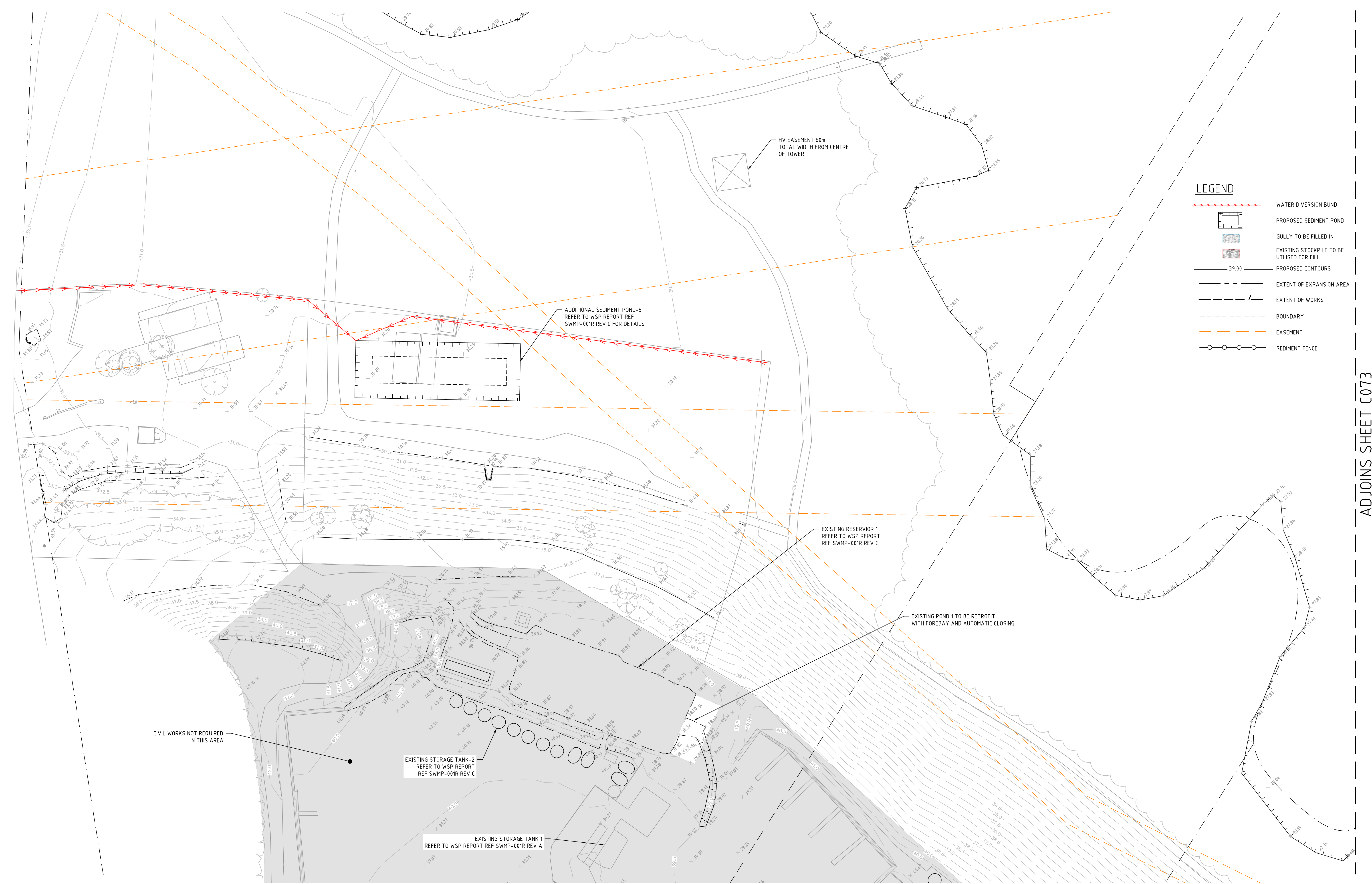
OVERALL SEDIMENT AND EROSION CONTROL CONSTRUCTION PLAN

CIVIL DRAWING

Designed: PS	Approved: - STEVE NOVAK		
Drawn: MR	Project Engineer/Director:	Date: 15/05/2020	
Scale: 1:1500	Project No:	Drawing No:	Issue
Date: APRIL 2020	PS102981	C070	C



C





ADJOINS SHEET C073

ISSUE	REVISION	DATE	INITIAL
C	ISSUE FOR 95% DA APPROVAL	31.07.20	PS
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A	ISSUE FOR DA APPROVAL	15.05.20	PS



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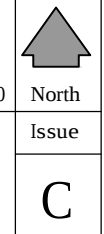
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FAIRFIELD SUSTAINABLE RESOURCE CENTRE
WIDEMERE RD AND HASSELL ST

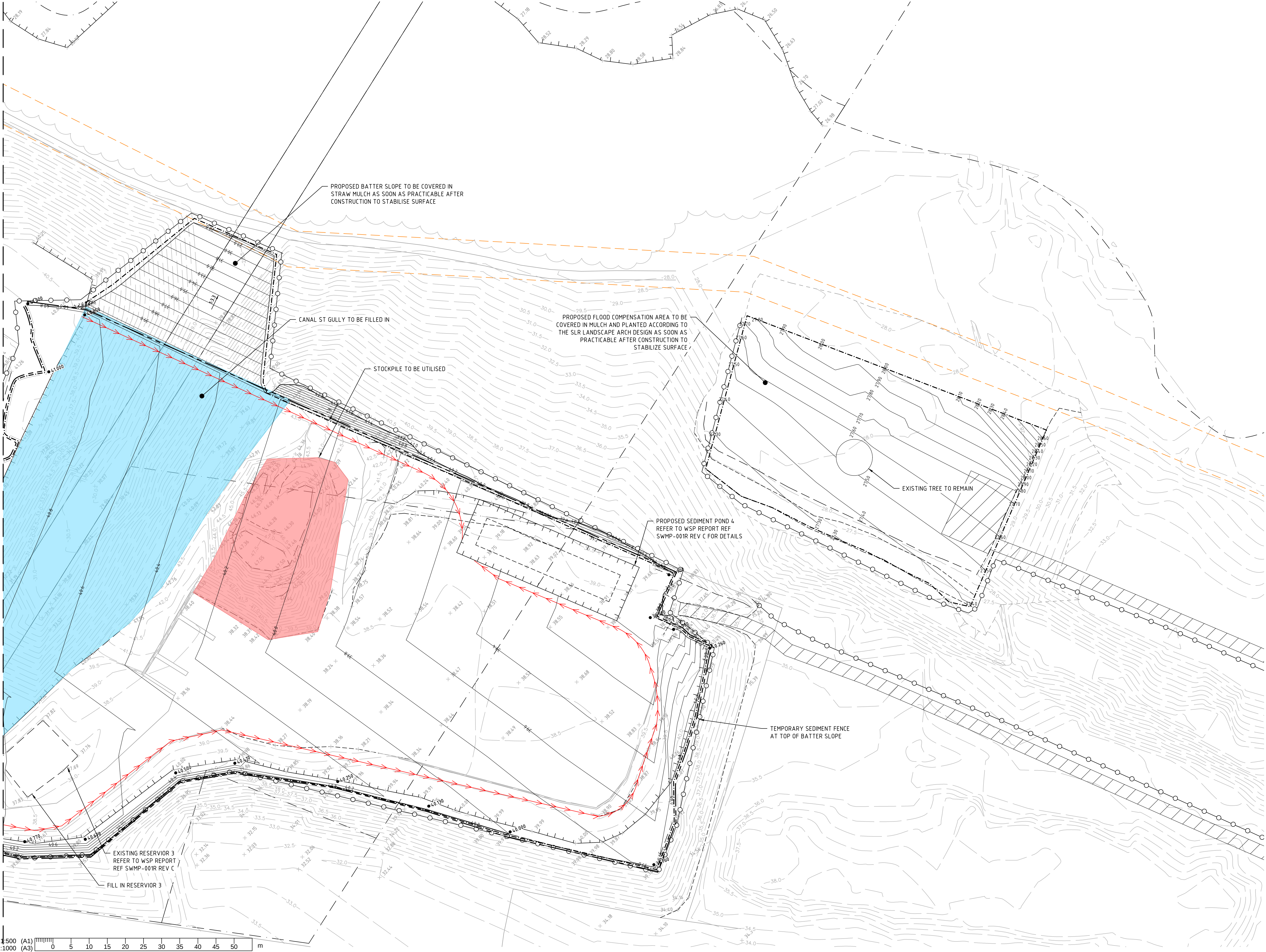
SEDIMENT AND EROSION
CONTROL PLAN - SHEET 2 OF 3

CIVIL DRAWING

Designed: PS
Drawn: MR
Scale: 1:500
Date: APRIL 2020
Approved: STEVE NOVAK
Project Engineer/Director: Date: 15/05/2020
Project No: Drawing No:
PS102981 C072



ADJOINS SHEET C072 & C073



LEGEND

- WATER DIVERSION BUND
- PROPOSED SEDIMENT POND
- GULLY TO BE FILLED IN
- EXISTING STOCKPILE TO BE UTILISED FOR FILL
- PROPOSED CONTOURS
- EXTENT OF EXPANSION AREA
- EXTENT OF WORKS
- BOUNDARY
- EASEMENT
- SEDIMENT FENCE

ISSUE	REVISION	DATE	INITIAL
C	ISSUE FOR 95% DA APPROVAL	31.07.20	PS
B	ISSUE FOR 90% DA APPROVAL	27.07.20	PS
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FAIRFIELD SUSTAINABLE RESOURCE CENTRE
WIDEMERE RD AND HASSELL ST

SEDIMENT AND EROSION
CONTROL PLAN - SHEET 3 OF 3

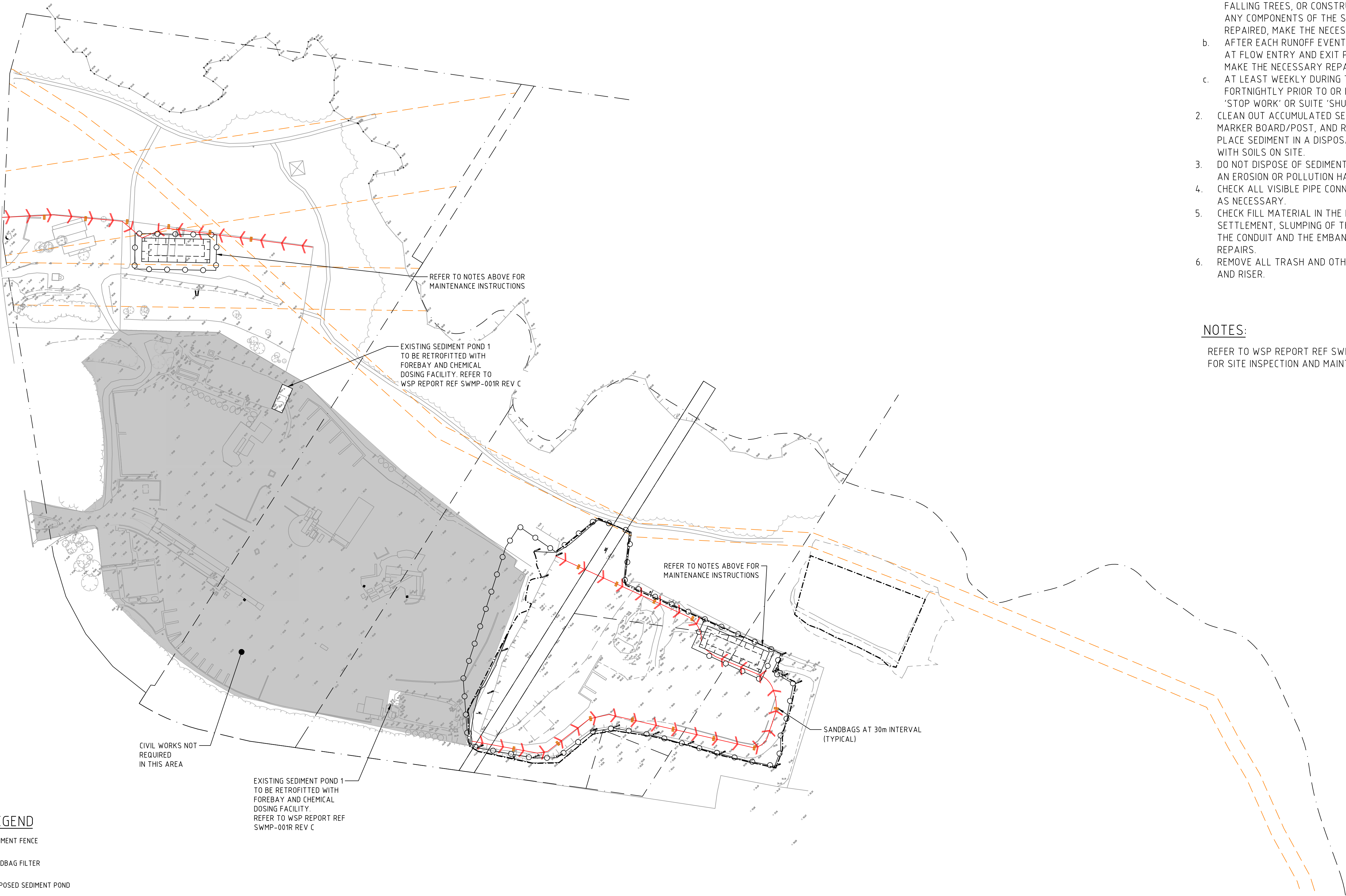
CIVIL DRAWING			
Designed: PS	Approved: · STEVE NOVAK		
Drawn: MR	Project Engineer/Director:	Date: 15/05/2020	
Scale: 1:500	Project No:	Drawing No:	Issue
Date: APRIL 2020	PS102981	C073	C

TYPE A SEDIMENT BASIN MAINTENANCE NOTES:

1. INSPECT THE SEDIMENT BASIN DURING THE FOLLOWING PERIODS:
 - a. DURING CONSTRUCTION TO DETERMINE WHETHER MACHINERY, FALLING TREES, OR CONSTRUCTION ACTIVITY HAS DAMAGED ANY COMPONENTS OF THE SEDIMENT BASIN IF DAMAGE HAS REPAIRED, MAKE THE NECESSARY REPAIRS IMMEDIATELY.
 - b. AFTER EACH RUNOFF EVENT. INSPECT THE EROSION DAMAGE AT FLOW ENTRY AND EXIT POINTS. IF DAMAGE HAS REPAIRED, MAKE THE NECESSARY REPAIRS.
 - c. AT LEAST WEEKLY DURING THE WET SEASON, OTHERWISE FORTNIGHTLY PRIOR TO OR IMMEDIATELY AFTER PERIODS OF 'STOP WORK' OR SUITE 'SHUTDOWN'
2. CLEAN OUT ACCUMULATED SEDIMENT WHEN REACHES THE MARKER BOARD/POST, AND RESTORE THE ORIGINAL VOLUME. PLACE SEDIMENT IN A DISPOSAL AREA, OR IF APPROPRIATE MIX WITH SOILS ON SITE.
3. DO NOT DISPOSE OF SEDIMENT IN A MANNER THAT WILL CREATE AN EROSION OR POLLUTION HAZARD.
4. CHECK ALL VISIBLE PIPE CONNECTIONS FOR LEAKS AND REPAIR AS NECESSARY.
5. CHECK FILL MATERIAL IN THE DAM FOR EXCESSIVE SETTLEMENT, SLUMPING OF THE SLOPES OF PIPING BETWEEN THE CONDUIT AND THE EMBANKMENT, MAKE NECESSARY REPAIRS.
6. REMOVE ALL TRASH AND OTHER DEBRIS FROM THE BASIN AND RISER.

NOTES:

REFER TO WSP REPORT REF SWMP-001R REV A SECTION 9 FOR SITE INSPECTION AND MAINTENANCE INFORMATION



LEGEND

- SEDIMENT FENCE
- ▬ SANDBAG FILTER
- ▭ PROPOSED SEDIMENT POND
- WATER DIVERSION BUND
- AREA-CIVIL WORK NOT REQUIRED
- - - - - EASEMENT

1:1500 (A1)
1:3000 (A3)
0 20 40 60 80 100 120 140 m

C	ISSUE FOR 95% DA APPROVAL	31.07.20	PS
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FAIRFIELD SUSTAINABLE RESOURCE CENTRE
WIDEMERE RD AND HASSELL ST

SEDIMENT AND EROSION
CONTROL MAINTENANCE PLAN

CIVIL DRAWING

Designed: PS	Approved: - STEVE NOVAK	 North
Drawn: MR	Project Engineer/Director:	
Scale: 1:1500	Project No:	
Date: APRIL 2020	Date: 15/05/2020	
	Drawing No:	Issue
	PS102981	C075
		C