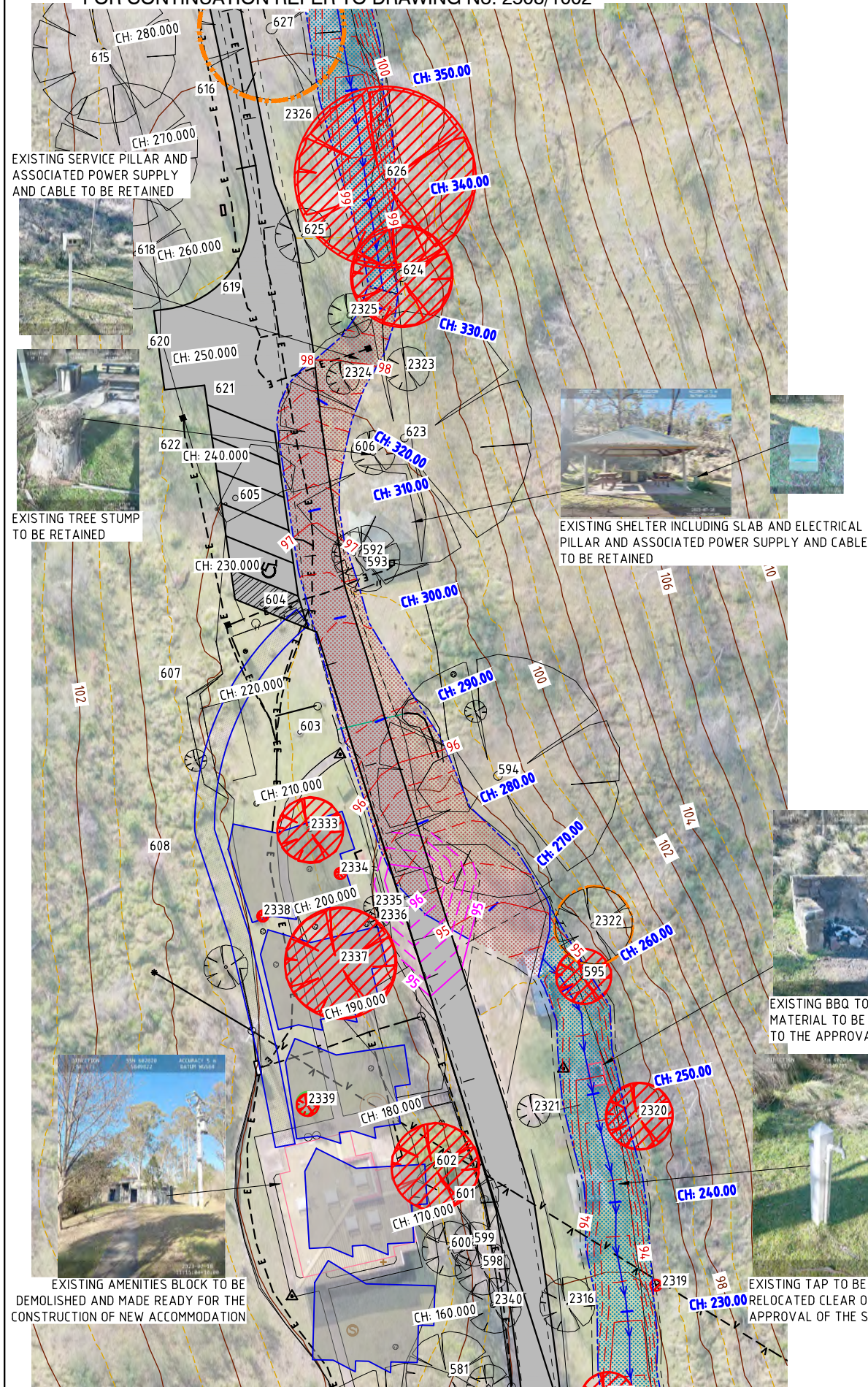
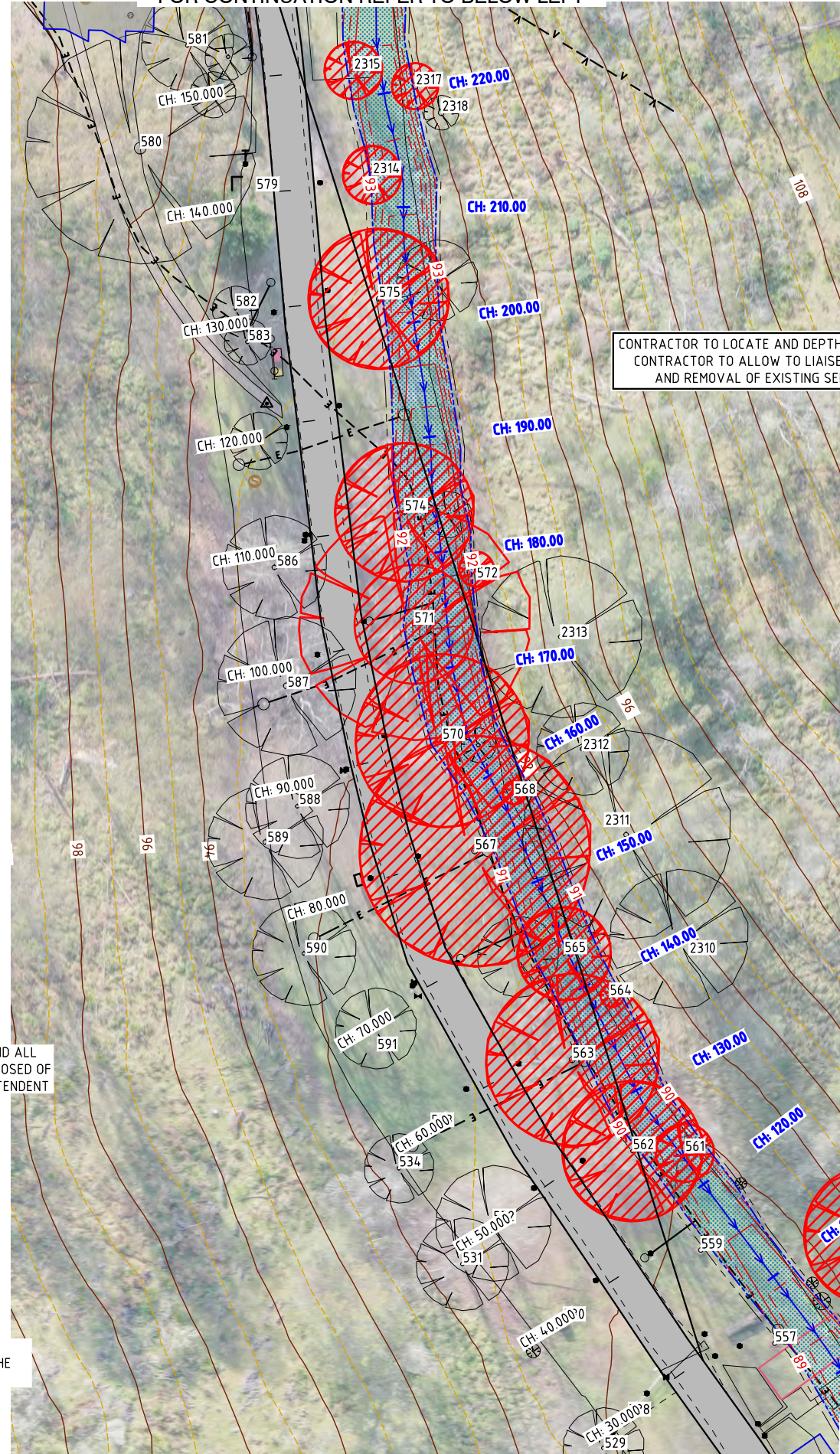


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FOR CONTINUATION REFER TO DRAWING No. 2508/1004

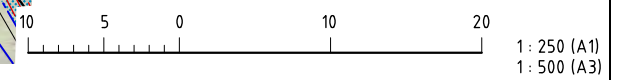
CONTRACTOR TO LOCATE AND DEPTH ALL EXISTING SERVICES IN CLOSE PROXIMITY TO NEW CONSTRUCTION.
CONTRACTOR TO ALLOW TO LIAISE WITH RELEVANT AUTHORITIES IN RELATION TO THE DISCONNECTION
AND REMOVAL OF EXISTING SERVICES AND INFRASTRUCTURE REQUIRED TO UNDERTAKE WORKS

LEGEND:

- EXISTING TREE AND TREE No.
- EXISTING TREE/STUMP TO BE REMOVED
- EXISTING TREE REQUIRING ARBORIST SUPERVISION DURING EXCAVATION

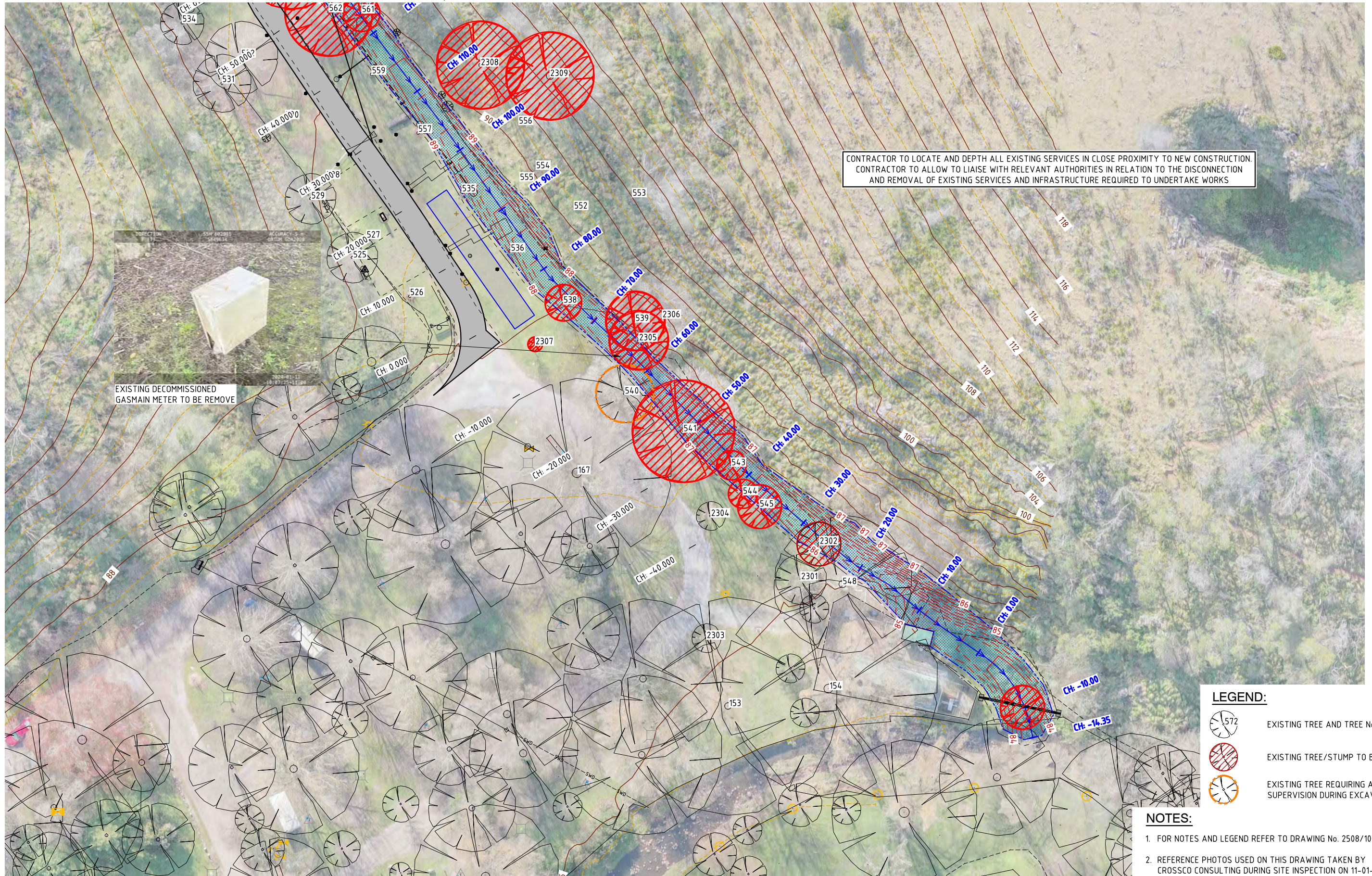
NOTES:

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D	M.S.	14-12-2023	CONSTRUCTION DESIGN - ISSUED FOR REVIEW					Email: consult@crossco.com.au				NORTH ARM REDEVELOPMENT WORKS			
C	M.S.	06-06-2023	CONSTRUCTION DESIGN - ISSUED FOR REVIEW					XREF ATTACHED: R:\2508 Aspect PV Buchanan Caves Reserve\ACAD\Xref\2508 BP.dwg				DATE: AUGUST 2022			
B	M.S.	19-12-2022	DESIGN ISSUE - ISSUED FOR REVIEW					CAD FILE NAME: R:\2508 Aspect PV Buchanan Caves Reserve\ACAD\2508-1003.dwg				SHEET 4 OF 22			
A	M.S.	01-08-2022	ORIGINAL ISSUE - ISSUED FOR COMMENT									DRAWING No:			
Rv	APPR.	DATE	REVISIONS									2508/1003			

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CONTRACTOR TO ALLOW TO LIAISE WITH RELEVANT AUTHORITIES IN RELATION TO THE DISCONNECTION
AND REMOVAL OF EXISTING SERVICES AND INFRASTRUCTURE REQUIRED TO UNDERTAKE WORKS

EXISTING DECOMMISSIONED
GASMAIN METER TO BE REMOVE

LEGEND:

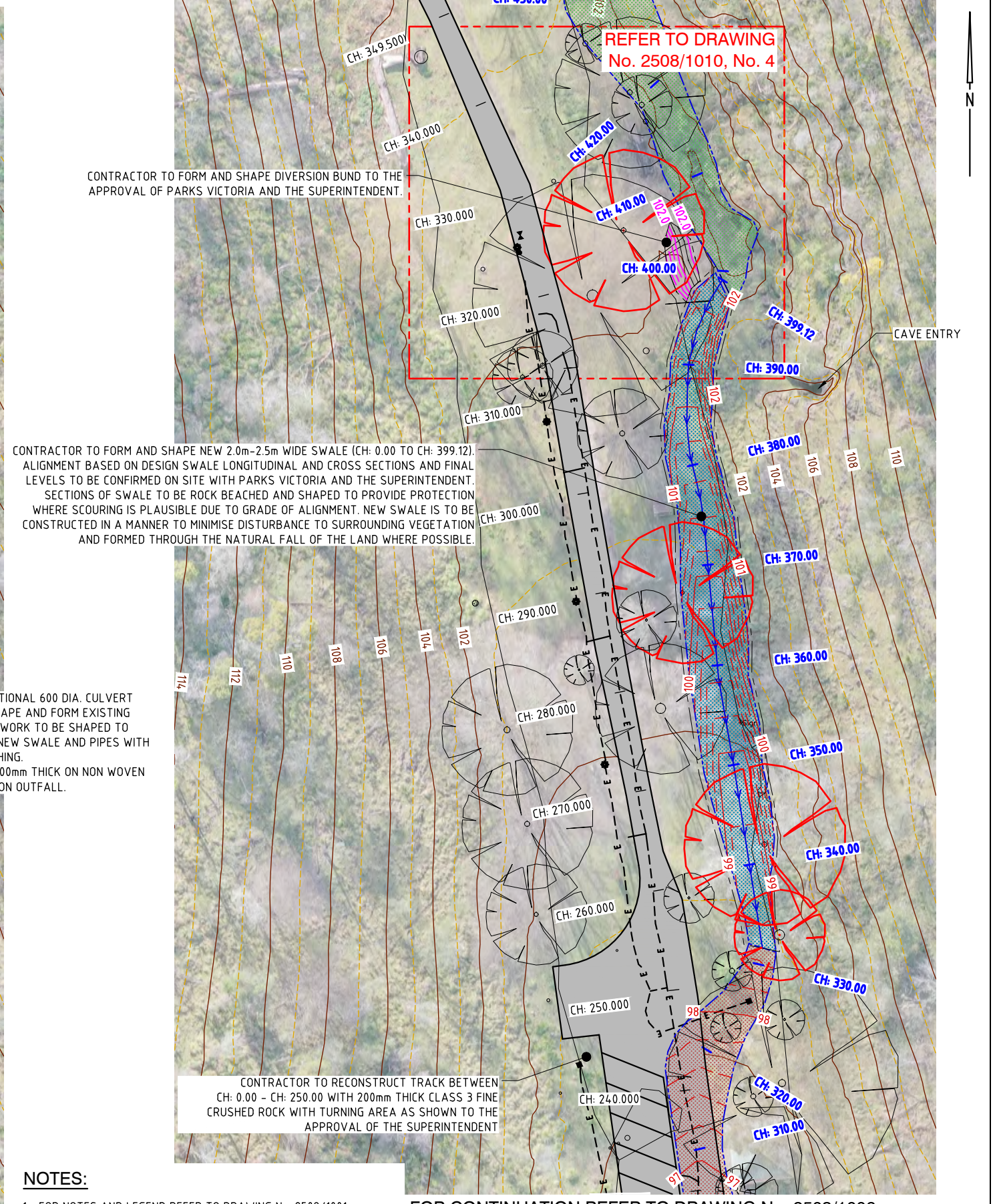
- 572 EXISTING TREE AND TREE No.
- EXISTING TREE/STUMP TO BE REMOVED
- EXISTING TREE REQUIRING ARBORIST SUPERVISION DURING EXCAVATION

NOTES:

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10 5 0 10 20
1 : 250 (A1)
1 : 500 (A3)

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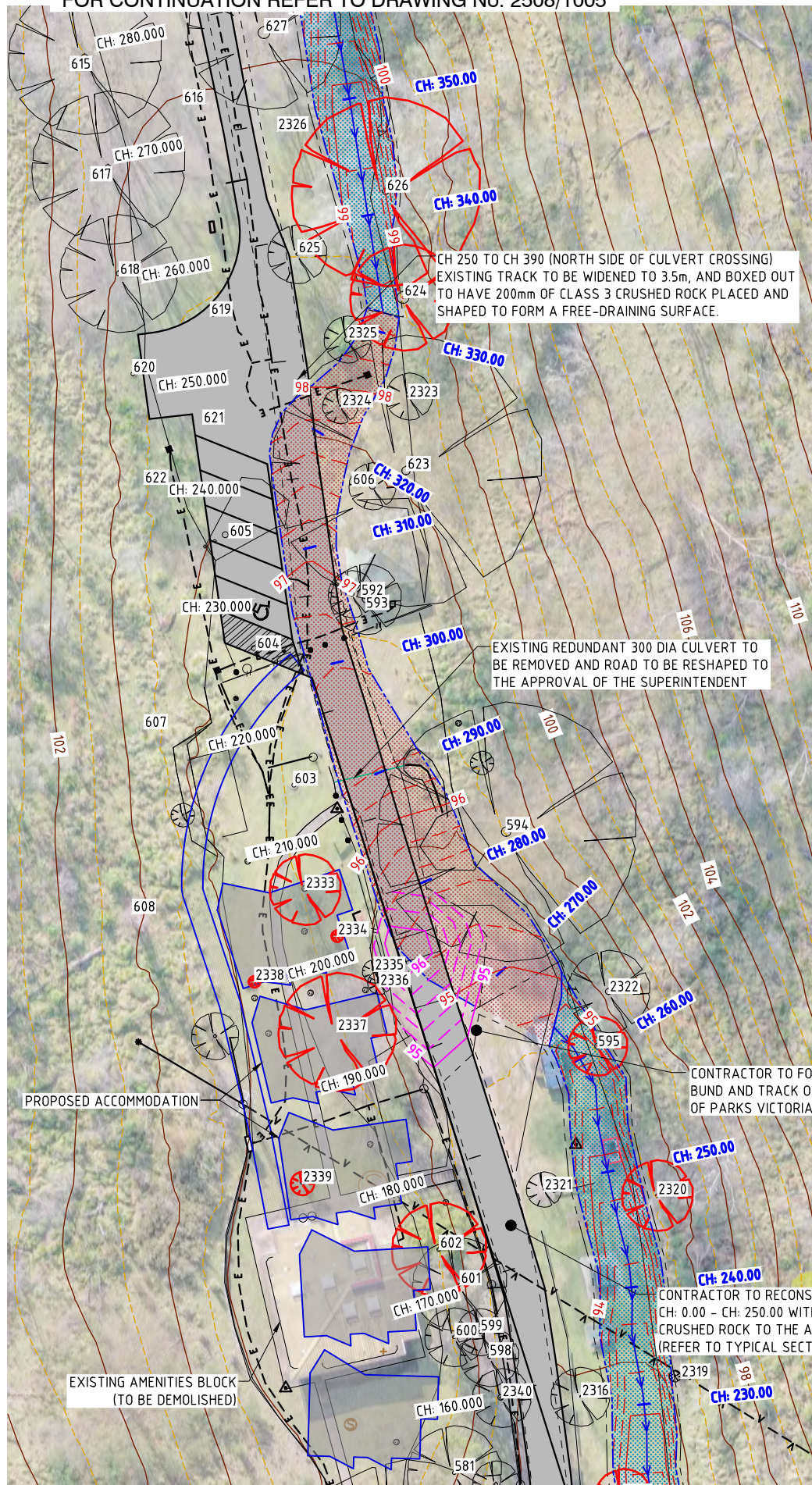


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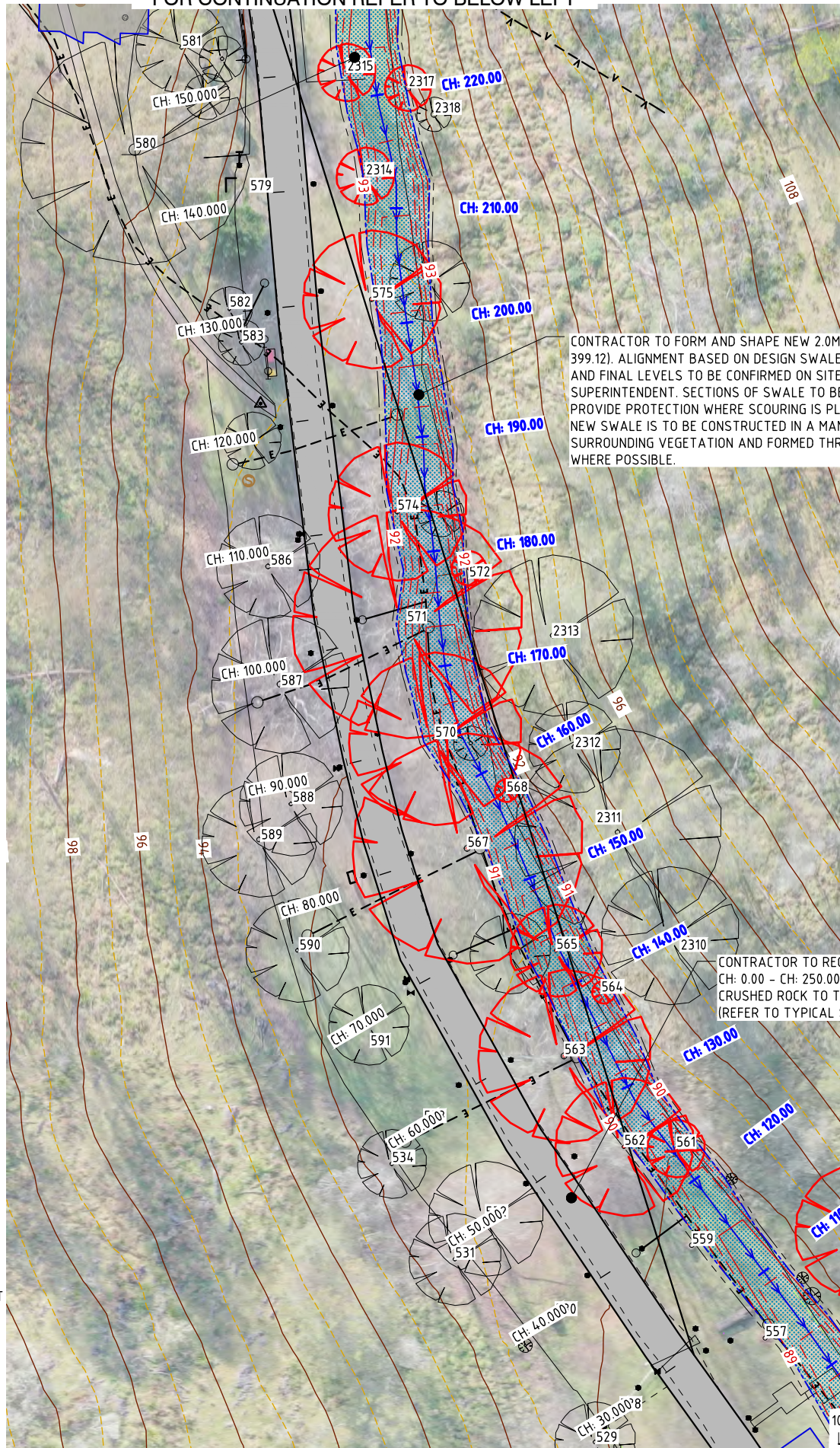


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F M.S. 08-04-2024 AMENDMENTS ADDED - ISSUED FOR REVIEW		E M.S. 22-03-2024 UPDATED CONSTRUCTION DESIGN - ISSUED FOR REVIEW		D M.S. 14-12-2023 CONSTRUCTION DESIGN - ISSUED FOR REVIEW		C M.S. 06-06-2023 CONSTRUCTION DESIGN - ISSUED FOR REVIEW		B M.S. 19-12-2022 DESIGN ISSUE - ISSUED FOR REVIEW		A M.S. 01-08-2022 ORIGINAL ISSUE - ISSUED FOR COMMENT		Rv. APPR. DATE REVISIONS									
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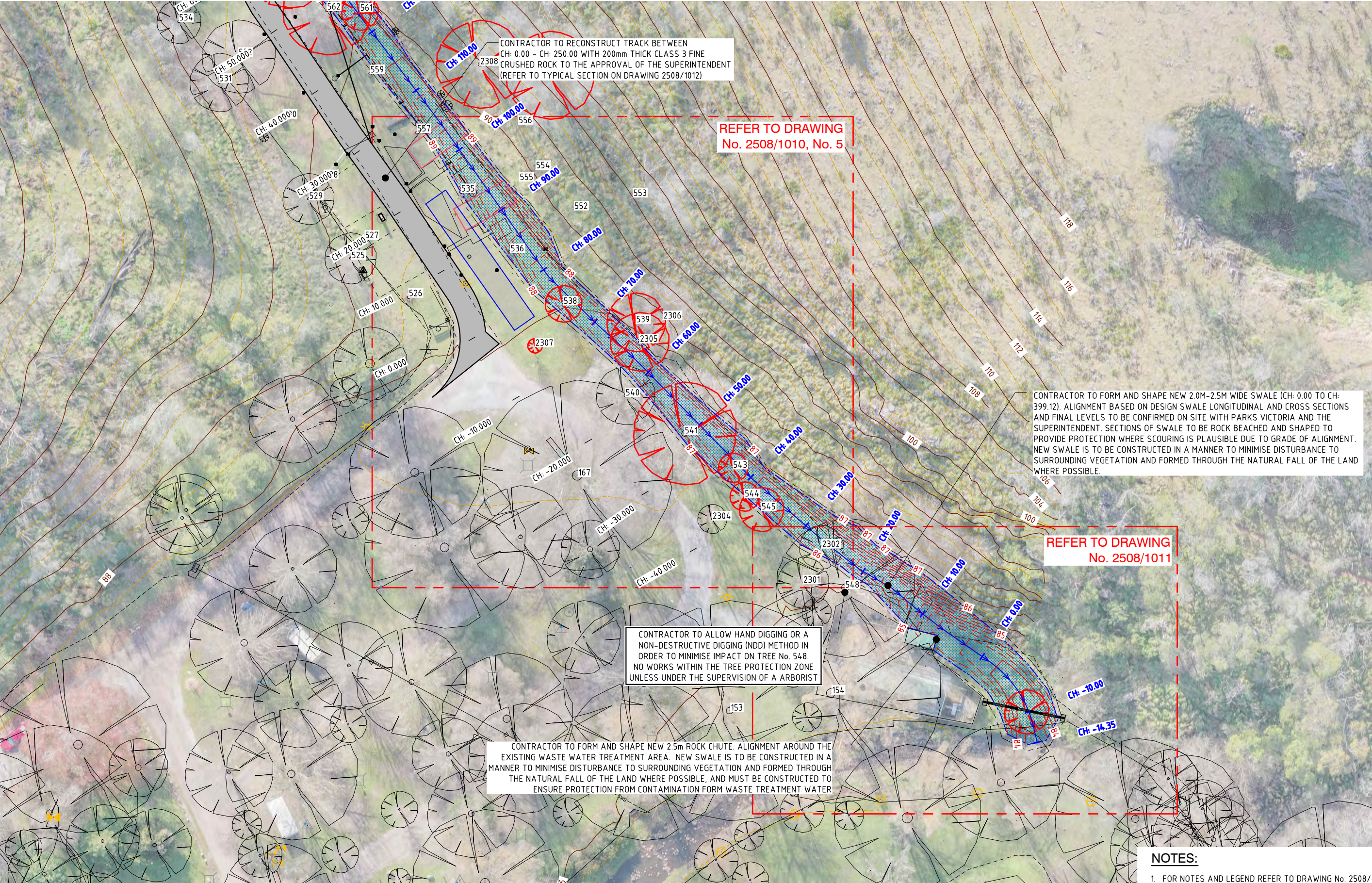
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1: 250 (A1)
1: 500 (A3)

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DESIGNED:	M.S.																																																				
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Rv	APPR.	DATE	REVISIONS																																																		



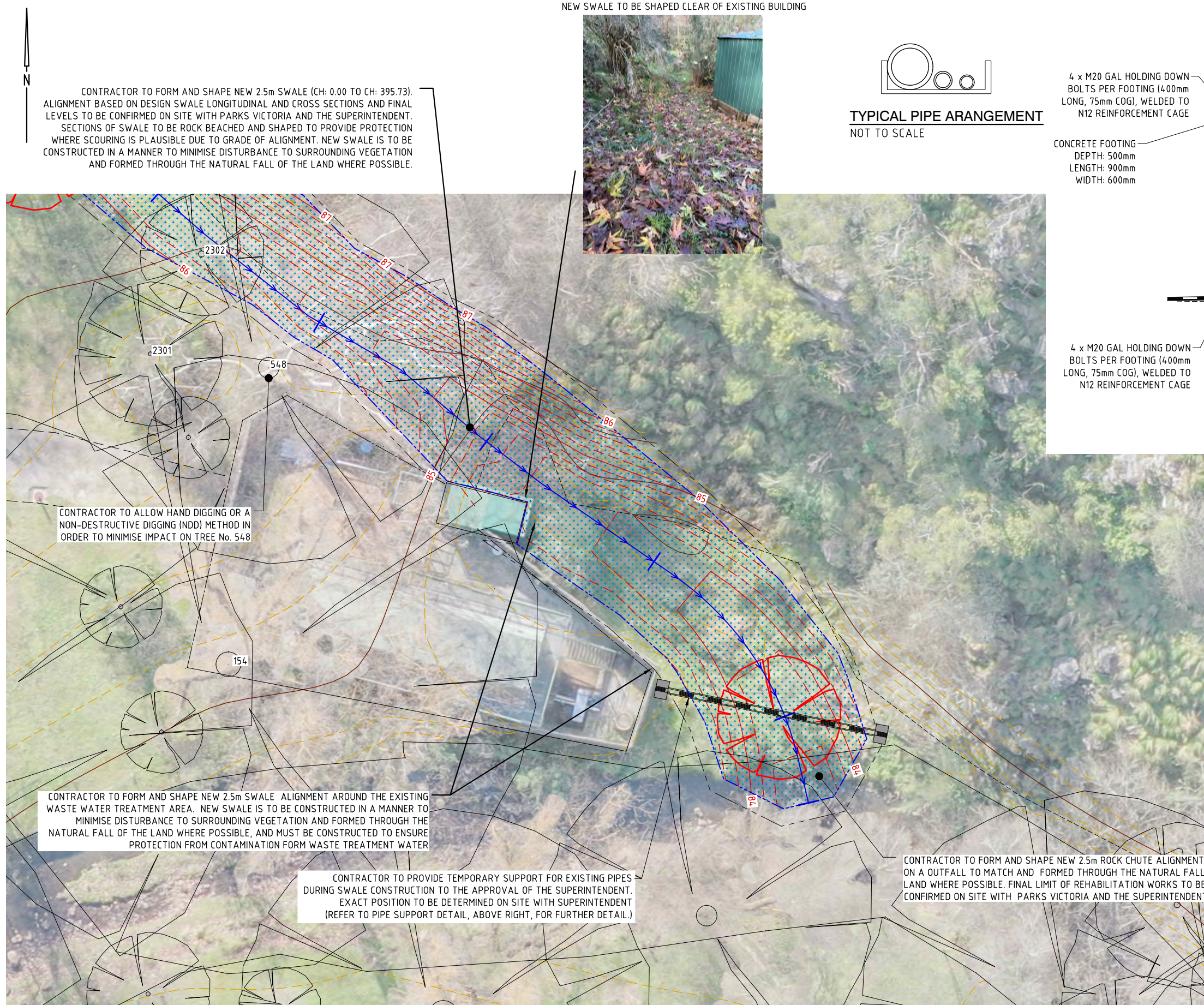
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1 : 250 (A1)
1 : 500 (A3)

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B	M.S.	19-12-2022	DESIGN ISSUE - ISSUED FOR REVIEW	DATUM: HEIGHT: AHD HORIZONTAL: MGA2020			
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				PARKS VICTORIA EAST GIPPSLAND SHIRE COUNCIL BUCHAN CAVES RESERVE NORTH ARM REDEVELOPMENT WORKS OVERALL LAYOUT PLAN - SHEET 3 OF 3			
				DATE: AUGUST 2022 SHEET 8 OF 22 DRAWING No: 2508/1007			



CONTRACTOR TO FORM AND SHAPE NEW 2.5m SWALE (CH: 0.00 TO CH: 395.73). ALIGNMENT BASED ON DESIGN SWALE LONGITUDINAL AND CROSS SECTIONS AND FINAL LEVELS TO BE CONFIRMED ON SITE WITH PARKS VICTORIA AND THE SUPERINTENDENT. SECTIONS OF SWALE TO BE ROCK BEACHED AND SHAPED TO PROVIDE PROTECTION WHERE SCOURING IS PLAUSIBLE DUE TO GRADE OF ALIGNMENT. NEW SWALE IS TO BE CONSTRUCTED IN A MANNER TO MINIMISE DISTURBANCE TO SURROUNDING VEGETATION AND FORMED THROUGH THE NATURAL FALL OF THE LAND WHERE POSSIBLE.

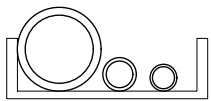
CONTRACTOR TO ALLOW HAND DIGGING OR A NON-DESTRUCTIVE DIGGING (NDD) METHOD IN ORDER TO MINIMISE IMPACT ON TREE No. 548

CONTRACTOR TO FORM AND SHAPE NEW 2.5m SWALE ALIGNMENT AROUND THE EXISTING WASTE WATER TREATMENT AREA. NEW SWALE IS TO BE CONSTRUCTED IN A MANNER TO MINIMISE DISTURBANCE TO SURROUNDING VEGETATION AND FORMED THROUGH THE NATURAL FALL OF THE LAND WHERE POSSIBLE, AND MUST BE CONSTRUCTED TO ENSURE PROTECTION FROM CONTAMINATION FORM WASTE TREATMENT WATER

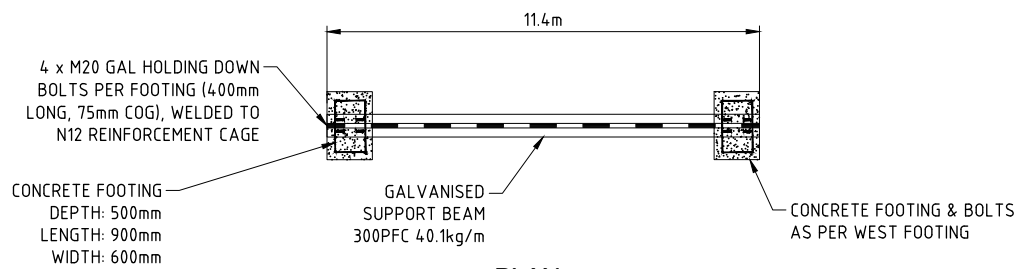
CONTRACTOR TO PROVIDE TEMPORARY SUPPORT FOR EXISTING PIPES DURING SWALE CONSTRUCTION TO THE APPROVAL OF THE SUPERINTENDENT. EXACT POSITION TO BE DETERMINED ON SITE WITH SUPERINTENDENT (REFER TO PIPE SUPPORT DETAIL, ABOVE RIGHT, FOR FURTHER DETAIL.)

CONTRACTOR TO FORM AND SHAPE NEW 2.5m ROCK CHUTE ALIGNMENT BASED ON A OUTFALL TO MATCH AND FORMED THROUGH THE NATURAL FALL OF THE LAND WHERE POSSIBLE. FINAL LIMIT OF REHABILITATION WORKS TO BE CONFIRMED ON SITE WITH PARKS VICTORIA AND THE SUPERINTENDENT

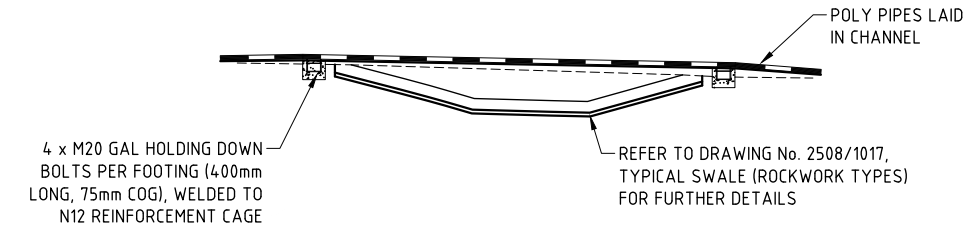
NEW SWALE TO BE SHAPED CLEAR OF EXISTING BUILDING



TYPICAL PIPE ARRANGEMENT
NOT TO SCALE



PLAN



ELEVATION

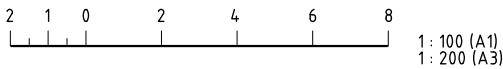
PIPE SUPPORT DETAIL
NOT TO SCALE



NEW ROCK CHUTE TO BE SHAPED TO MATCH AND FORM INTO EXISTING NATURAL FALL OF THE LAND

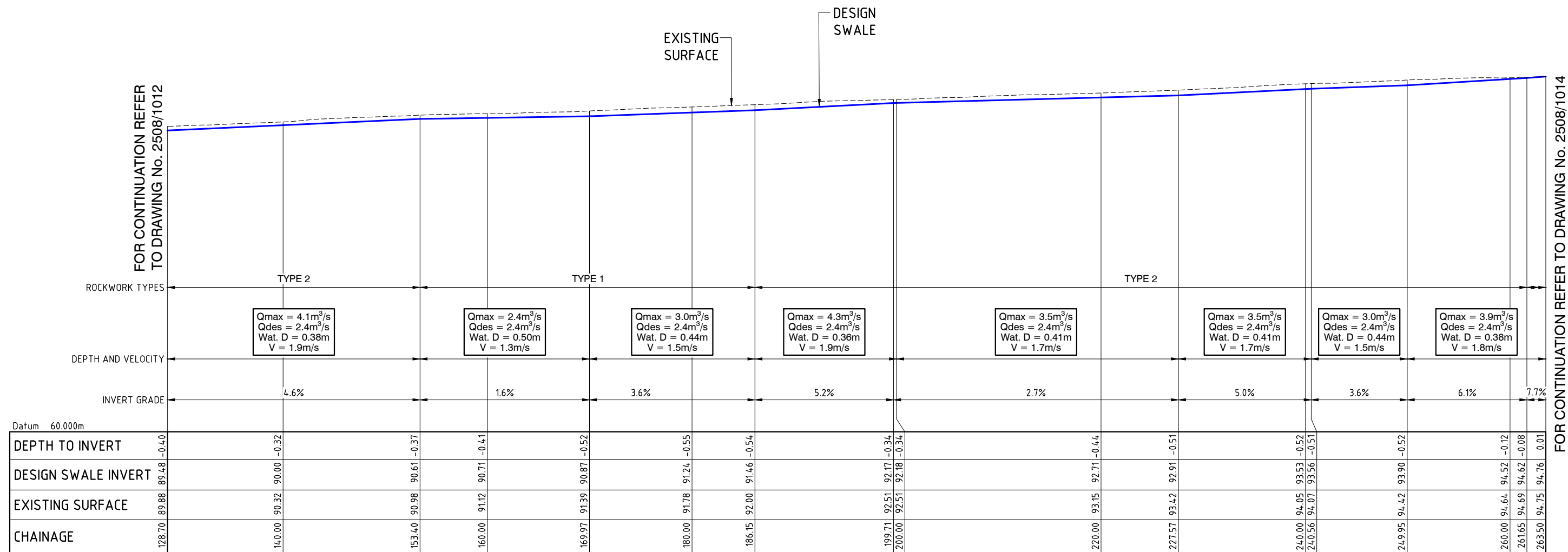
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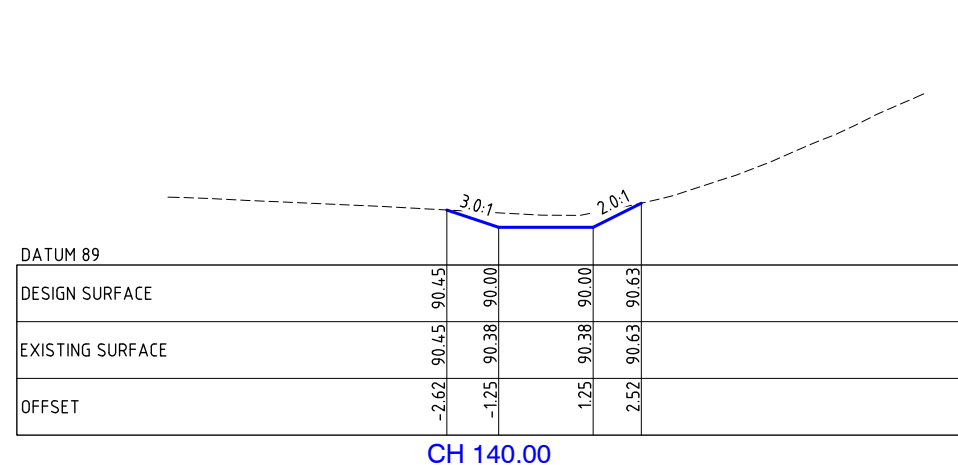
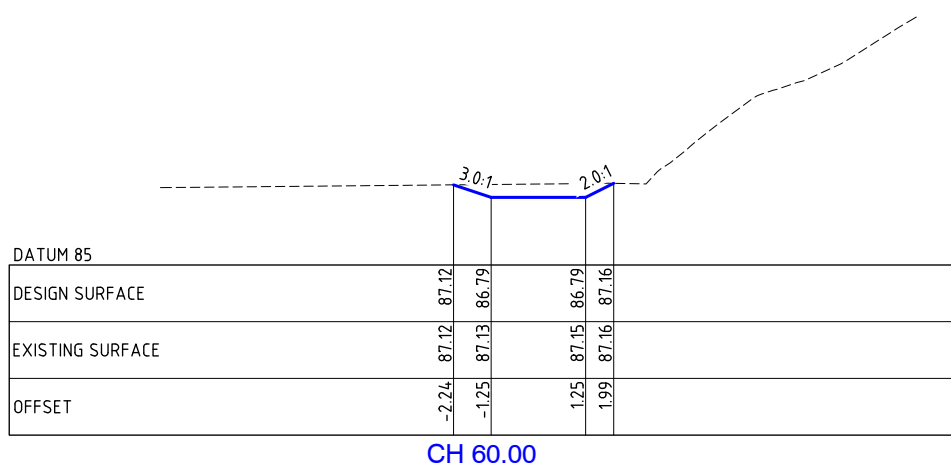
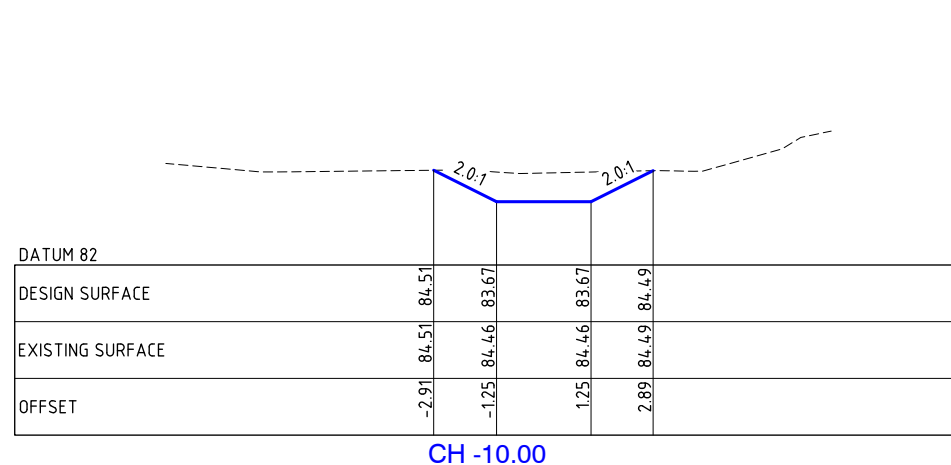
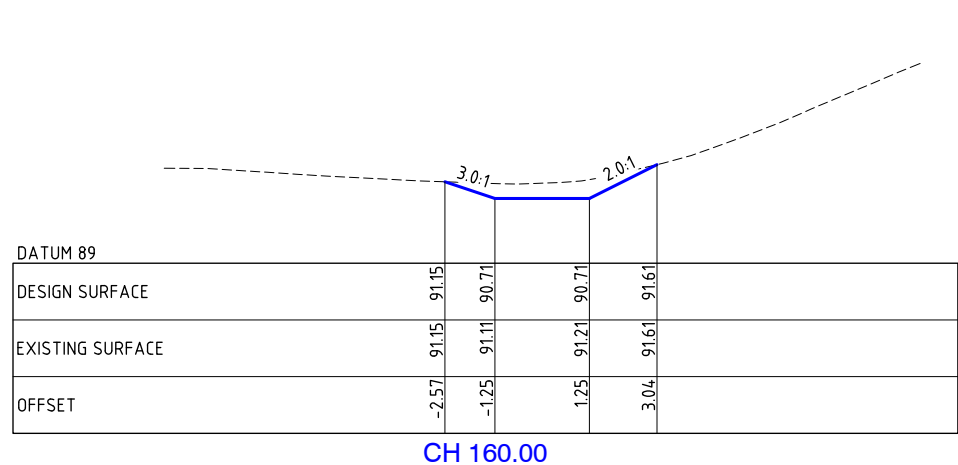
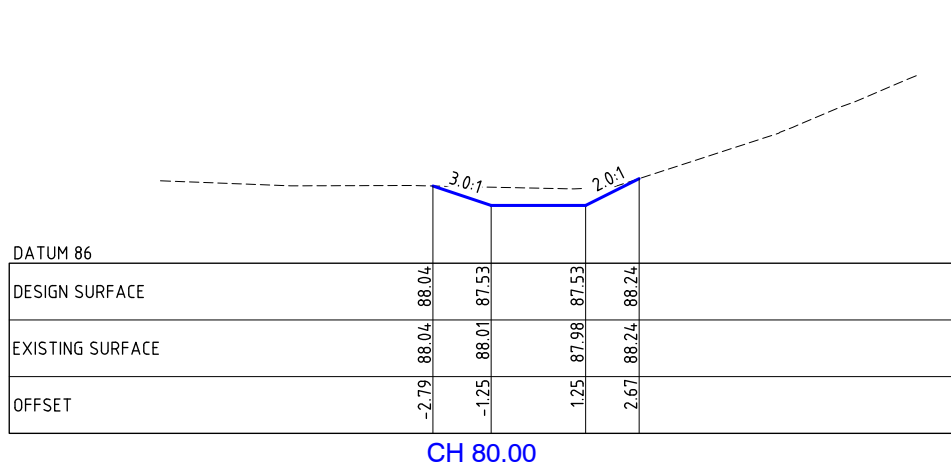
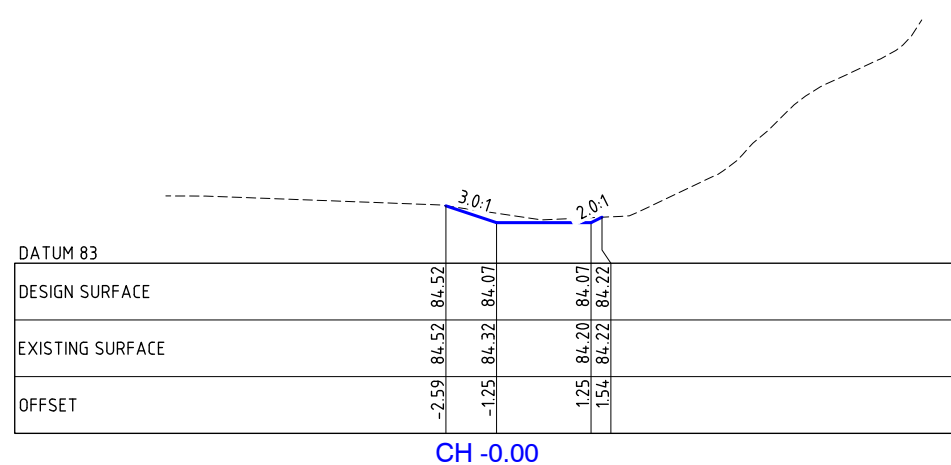
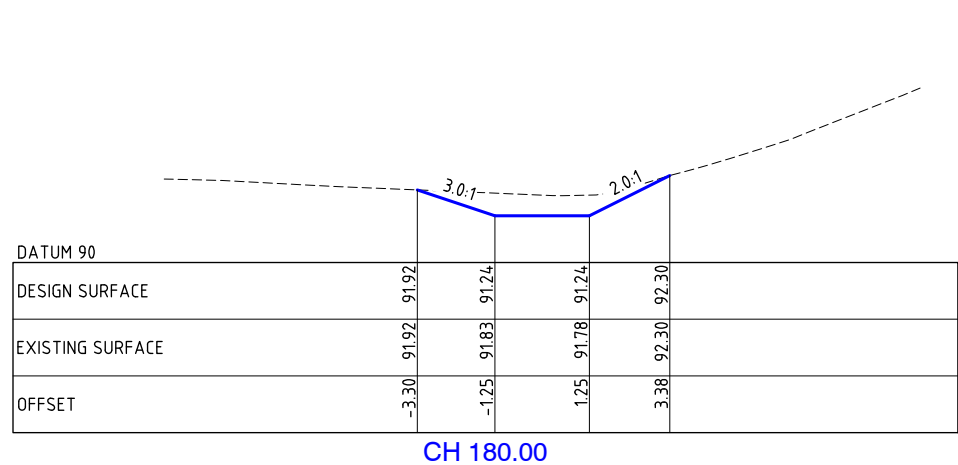
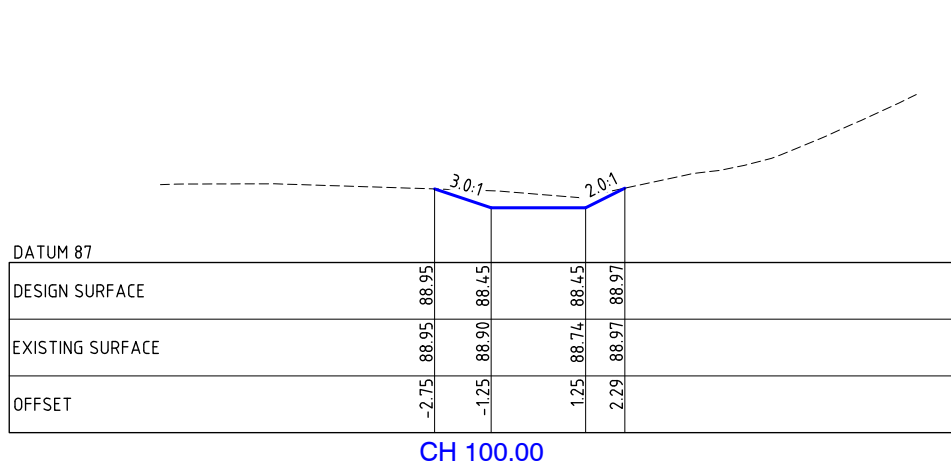
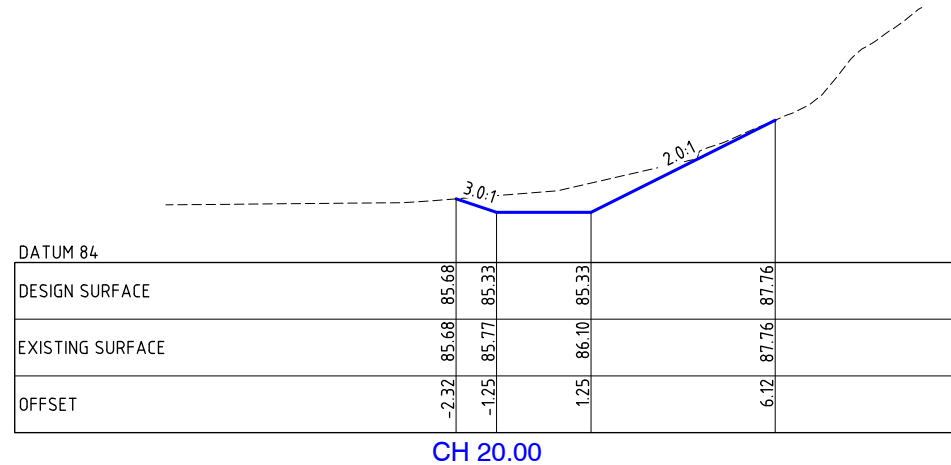
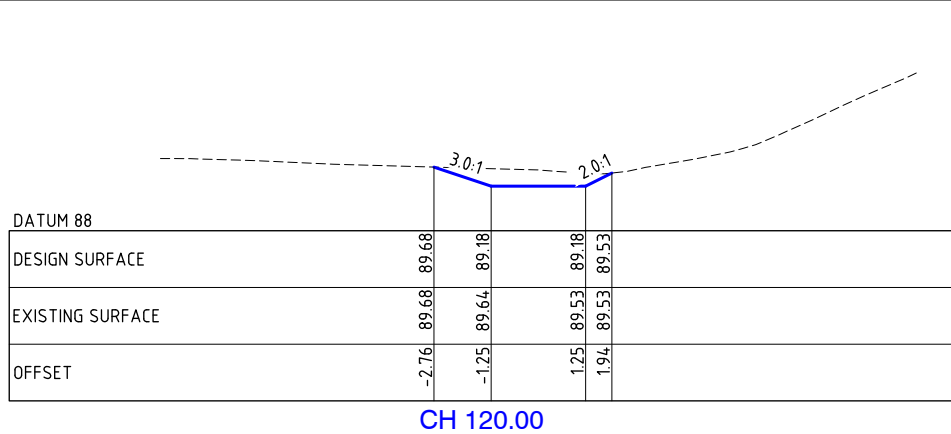
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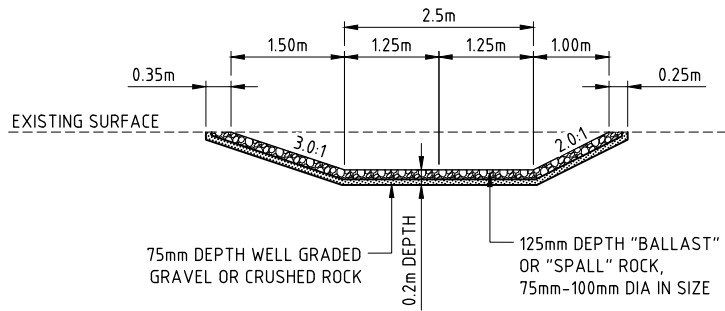
SWALE OUTFALL
SCALE : 1: 200 AT A3

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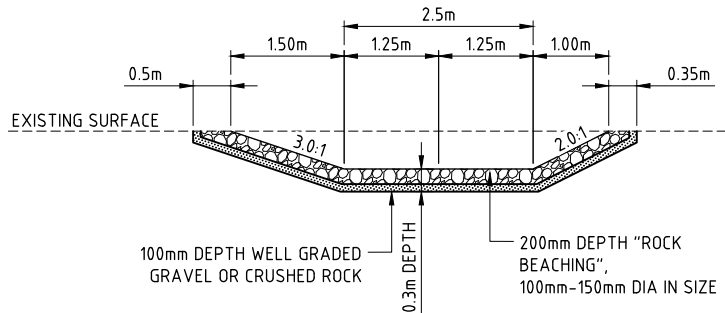


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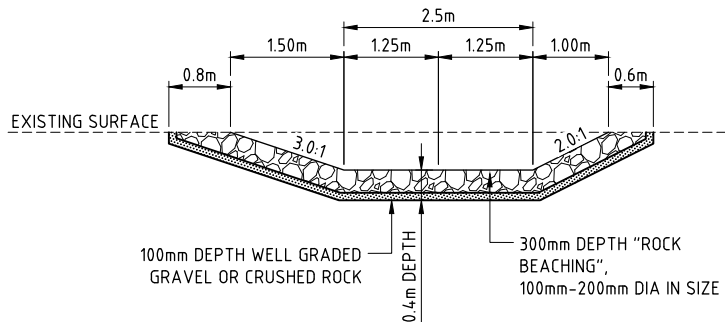
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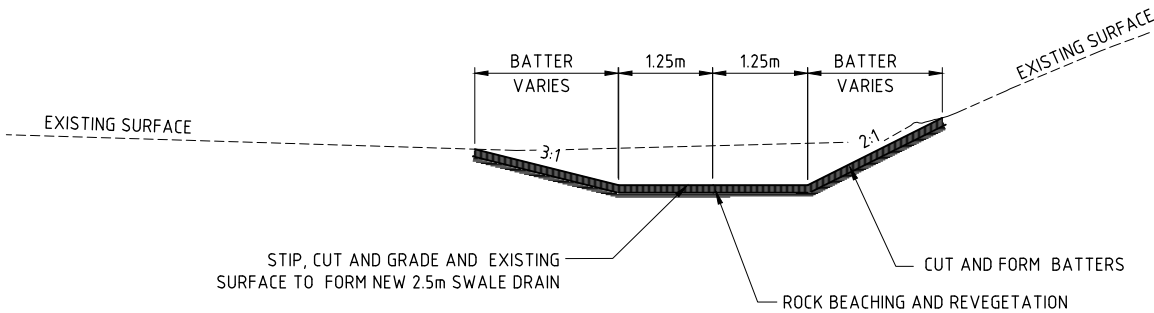
TYPICAL SWALE (ROCKWORK TYPES)
TYPE 1 SECTION
NOT TO SCALE



TYPICAL SWALE (ROCKWORK TYPES)
TYPE 2 SECTION
NOT TO SCALE



TYPICAL SWALE (ROCKWORK TYPES)
TYPE 3 SECTION
NOT TO SCALE



VEGEATATED SWALE
TYPICAL SECTION
NOT TO SCALE

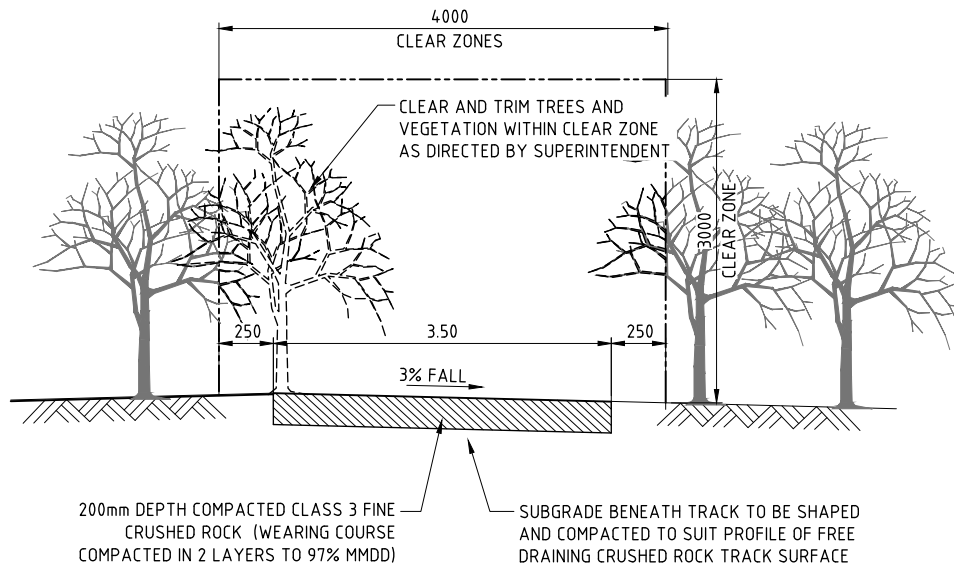


PROPOSED ROCK BEACHED PLACEMENT STYLE
NOT TO SCALE

NEW SWALE AND ROCK BEACHING IS TO BE INSTALLED IN A MANNER TO MINIMISE DISTURBANCE TO SURROUNDING VEGETATION AND FORMED THROUGH THE NATURAL FALL OF THE LAND WHERE POSSIBLE.

PROPOSED REPAIR AND CONSTRUCTION METHODOLOGY

1. CONTRACTOR TO PICK BEST FIT ALIGNMENT BASED ON DESIGN SWALE LONGITUDINAL AND CROSS SECTIONS SECTIONS SWALE ALIGNMENT AND FINAL LEVELS TO BE CONFIRMED ON SITE WITH PARKS VICTORIA AND THE SUPERINTENDENT.
2. CONTRACTOR TO CLEAR AND DISPOSE OF EXISTING STRUCTURES AND/OR CULVERTS, AND CLEAR NEW SWALE AND ROCKWORK ALIGNMENT TO REQUIRED DEPTH AND WIDTH FOR SUBGRADE INSPECTION.
3. NEW SWALE IS TO BE INSTALLED IN A MANNER TO MINIMISE DISTURBANCE TO SURROUNDING VEGETATION AND FORMED THROUGH THE NATURAL FALL OF THE LAND WHERE POSSIBLE.
4. ERODED AREAS OF THE EXISTING STREAM BED ADJACENT TO THE NEW SWALE SHALL HAVE ALL REMOVE LOOSE MATERIAL AROUND ERODED AREA REMOVED , AND A FIRM BASE REESTABLISH, BACKFILLED IN COMPACTED LAYERS WITH SELECT FILL. ROCK BEACHING AND TOPSOIL WON FROM SITE.
5. TRACK SUBGRADE SHALL BE SHAPED TO SUIT A FREE-DRAINING FINISHED PAVEMENT SURFACE AND PROOF-ROLLED IN THE PRESENCE OF THE SUPERINTENDENT. IF SUBGRADE IS COMPETENT, CONTRACTOR SHALL PROCEED WITH TRACK CONSTRUCTION
6. IF SUBGRADE IMPROVEMENT IS REQUIRED, THE PARKS VICTORIA REPRESENTATIVE WILL INSTRUCT REMOVAL OF UNSUITABLE, AND REPLACEMENT WITH REINFORCED FOUNDATION LAYER(S). WHEN COMPLETE THIS WORK SHALL BE INSPECTED BY THE REPRESENTATIVE OFFICER
7. ERODED BACKFILLING IN TRAFFICABLE AREAS (CARRIAGEWAY AND SHOULDERS) SHALL BE PERFORMED USING 20MM CLASS 3 F.C.R. OR AN APPROVED EQUIVALENT MATERIAL COMPACTED IN LAYERS NOT EXCEEDING 150MM
8. BACKFILLING IN NON TRAFFICED AREAS (VERGES) SHALL BE PERFORMED USING SELECT BACKFILL MATERIAL COMPACTED IN LAYERS NOT EXCEEDING 150MM
9. CONTRACTOR TO REFER TO PROPOSED SWALE LONGITUDINAL SECTION FOR ROCKWORK IN NEW SWALE AND ROCK BEACHING PLACED AS DIRECTED
10. CONTRACTOR TO SOURCE AS MUCH ROCK BEACHING AS POSSIBLE FROM SCREENED EXCAVATION MATERIAL, AND TO THE EXTENT POSSIBLE THIS SHALL BE PLACED AT THE SURFACE OF THE SWALE WHERE IT IS MOST VISIBLE.
11. ROCKWORK SHALL BE SELECTED AND CAREFULLY WORKED INTO PLACE TO ACHIEVE MAXIMUM INTERLOCKING OF ROCK PARTICLES, AND MINIMUM VOIDS
12. ROCKWORK SHALL BE FORMED IN A WAY THAT TRANSITIONS THE FLOW FROM THE NATURAL STREAMBED SHAPE INTO THE DESIGN SWALE, IF ADDITIONAL ROCKWORK IS NEEDED TO ACHIEVE THIS, THE CONTRACTOR SHALL ADVISE THE RESPONSIBLE OFFICER
13. WHERE THE ROCKWORK, EXISTING CULVERTS AND NATURAL STREAMBED MEET (BOTH DOWNSTREAM AND UPSTREAM OF THE CULVERT) A ROCK "CUT-OFF" WALL 600MM DEEPER THAT THE ROCKWORK SHALL BE FORMED.
14. SUITABLE ROCK WON FROM SITE EXCAVATION AND REMEDIAL WORKS SHALL BE USED AS BEACHING WHERE DIRECTED BY THE SUPERINTENDENT



GRAVEL TRACK TYPICAL SECTION - (SINGLE CROSSFALL)
4.0m x 3.0m CONSTRUCTION CLEAR ZONE SHOWN
NOT TO SCALE

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F	M.S.	08-04-2024	AMENDMENTS ADDED – ISSUED FOR REVIEW													
E	M.S.	22-03-2024	UPDATED CONSTRUCTION DESIGN – ISSUED FOR REVIEW													
D	M.S.	14-02-2023	CONSTRUCTION DESIGN – ISSUED FOR REVIEW													
C	M.S.	06-06-2023	CONSTRUCTION DESIGN – ISSUED FOR REVIEW													
B	M.S.	19-12-2022	DESIGN ISSUE – ISSUED FOR REVIEW													
A	M.S.	01-08-2022	ORIGINAL ISSUE – ISSUED FOR COMMENT													
Rv.	APPR.	DATE	REVISIONS												Rv.	

PLANTING SCHEDULE

Ref: EGCMA "Murrindal River downstream of W-Tree and Bucan River downstream of Gillingall to the Snow River Confluence".

Type	Botanical Name	Common Name	Area to be planted (m2)	Typical Planting Density (plants / m2)	No
Small shrubs, herbs & ferns (minimum 4 species - Approaches)	<i>Pteridium esculentum</i>	Austral Bracken	1350	2	2,700
	<i>Blechnum nudum</i>	Fishbone water-fern			
	<i>Callistemon sieberi</i>	River bottlebrush			
	<i>Sannantha virgata</i>	Tall Baeckea			
	<i>Adriana tomentosa</i> var. <i>tomentosa</i>	Eastern bitter bush			
	<i>Kunzea ericoides</i>	Burgan			
	<i>Lycopus australis</i>	Australian gipsywort			
Grasses, reeds, sedges (minimum 2 species - swale batter and stream bank)	<i>Carex appressa</i>	Tall sedge	900	2	1,460
	<i>Carex longebrachiata</i>	Bergalia tussock			
	<i>Cyperus lucidus</i>	Leafy flat-sedge			
	<i>Lomandra longifolia</i> 'Katrinus'	Spiny-headed mat-rush			
Total number of plants					4,353



PTERIDUM ESCULENTUM



BIECHNUM NUDIM



CALLISTEMON SIEBERI



SANNANTHA VIRGATA



ADRIANA TOMENTOSA



KUNZEA ERICOIDES



LYCOPUS AUSTRALIS



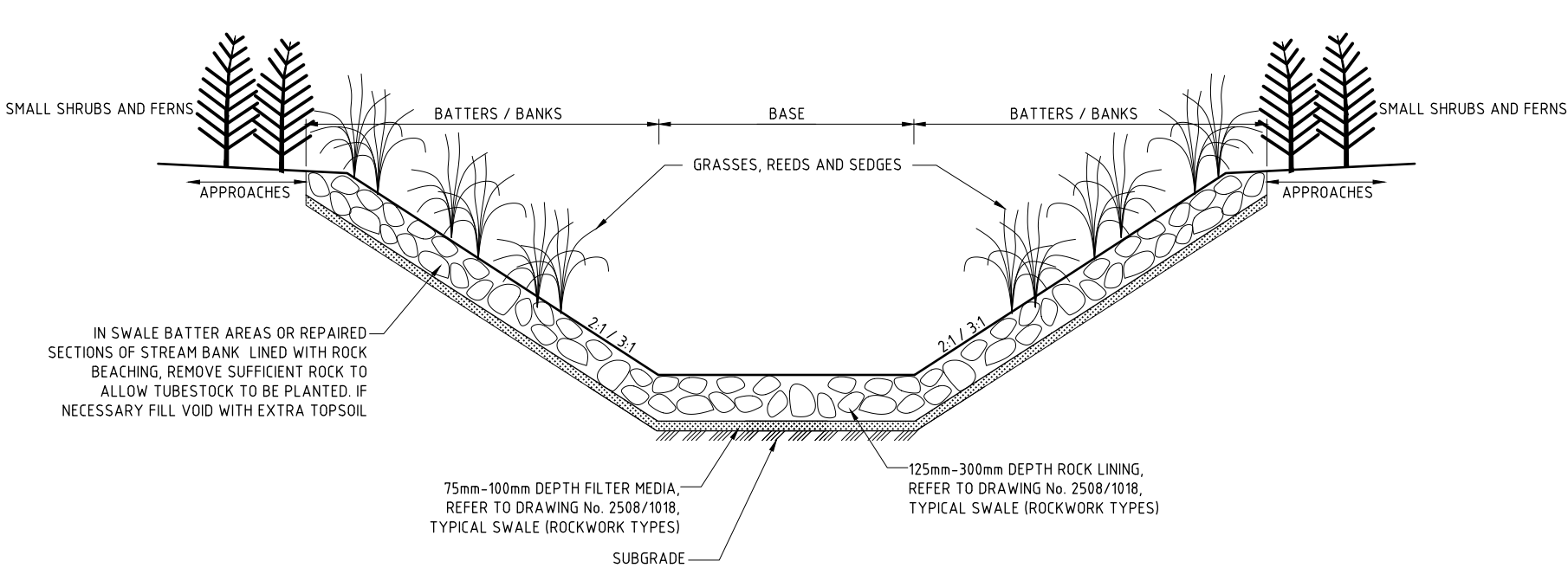
CAREX APPRESSA



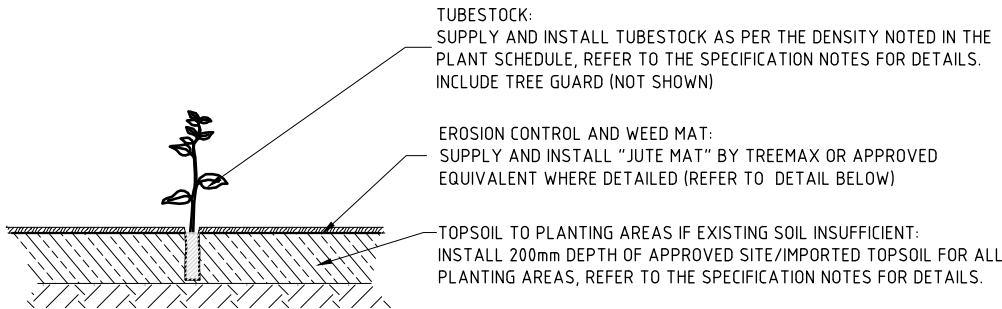
CAREX LONGEBRACHIATA



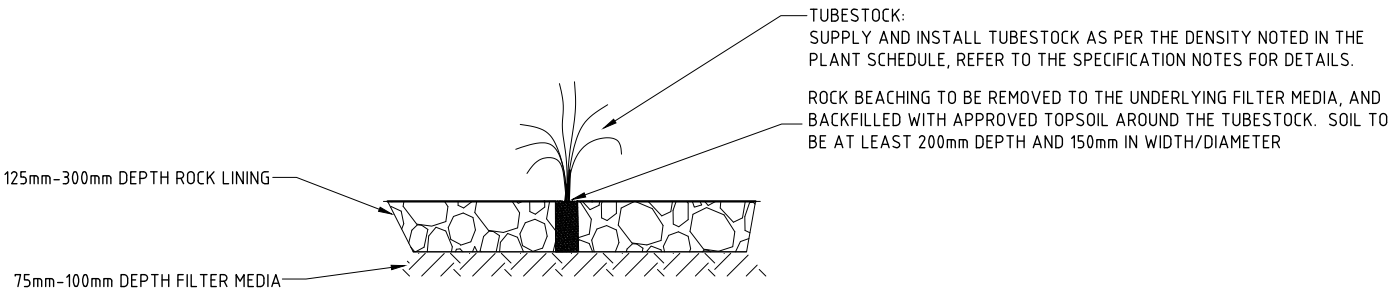
LOMANDRA LONGIFOLIA



TYPICAL SWALE BATTER / STREAM BANK VEGETATION DETAIL
NOT TO SCALE

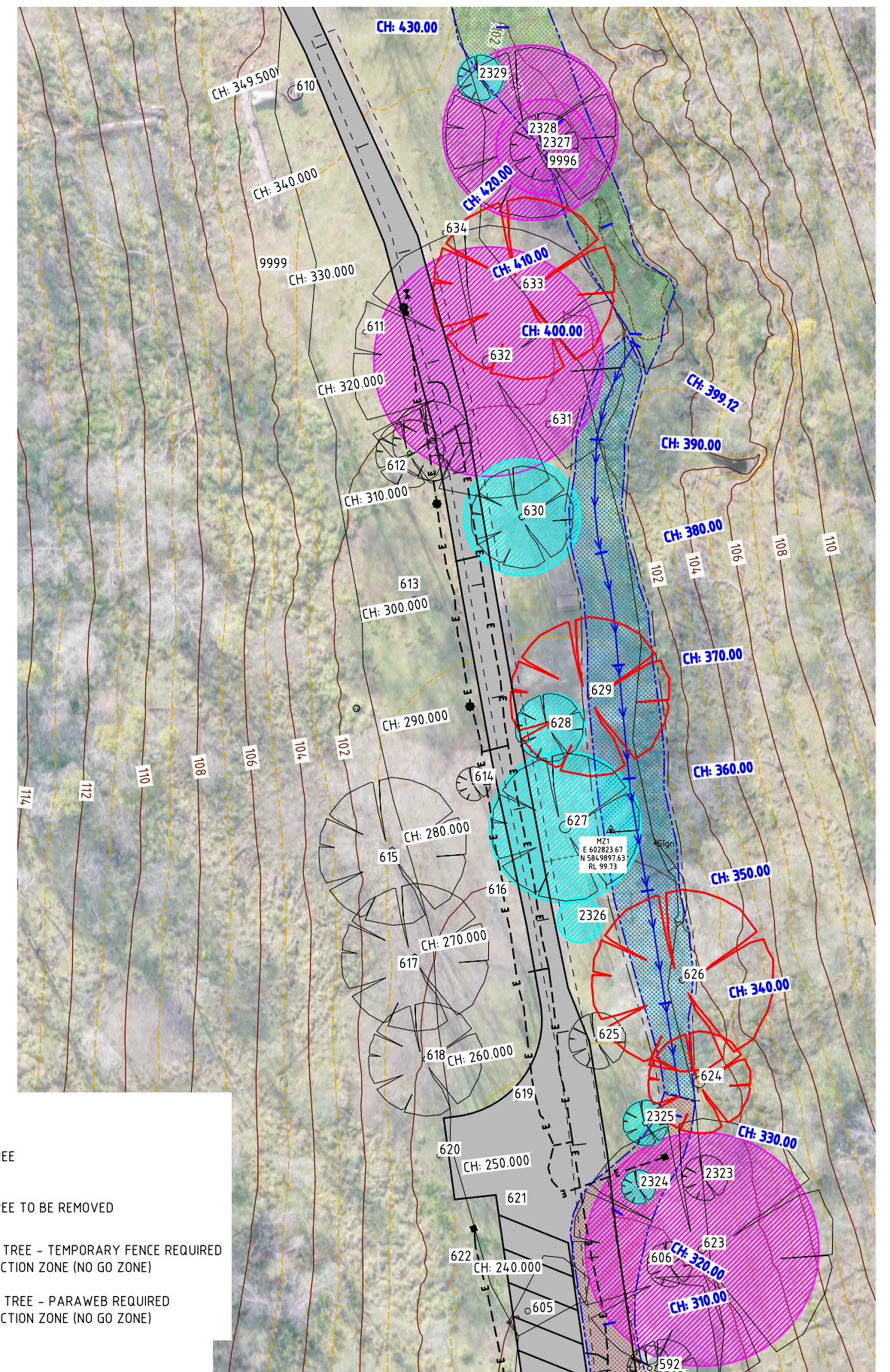
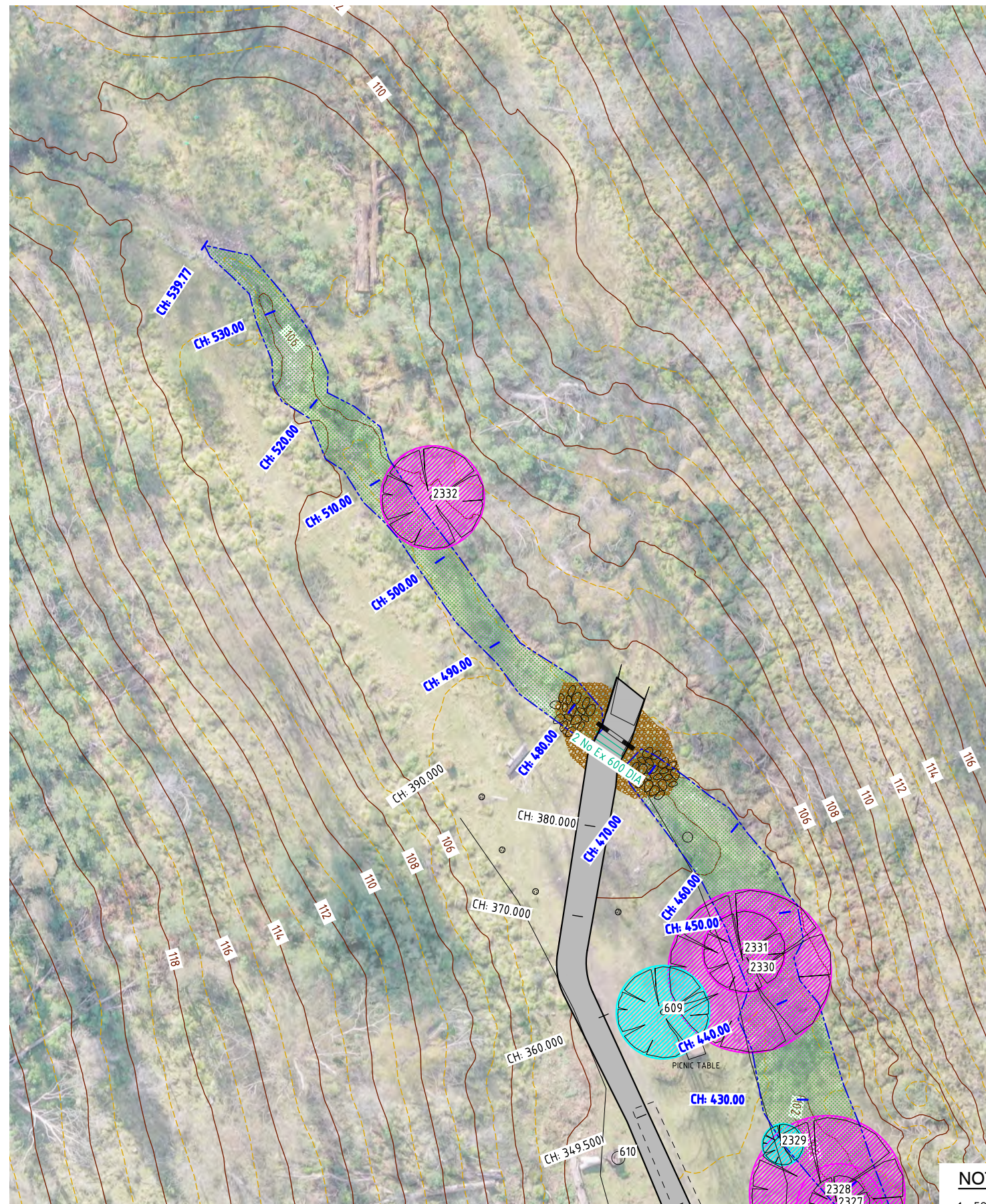


TUBESTOCK PLANTING DETAIL - PLANTS IN SOIL
NOT TO SCALE



TUBESTOCK PLANTING DETAIL - PLANTS IN ROCK BEACHING
NOT TO SCALE

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C	M.S.	06-06-2023	CONSTRUCTION DESIGN - ISSUED FOR REVIEW	Email: consult@crossco.com.au			
B	M.S.	19-12-2022	DESIGN ISSUE - ISSUED FOR REVIEW	Parks VICTORIA			
A	M.S.	01-08-2022	ORIGINAL ISSUE - ISSUED FOR COMMENT	DESIGNED: M.S. DRAWN: A.M.M. CHECKED: S.G. APPROVED: A.G. SCALE: NOT TO SCALE			
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				PARKS VICTORIA EAST GIPPSLAND SHIRE COUNCIL BUCHAN CAVES RESERVE NORTH ARM REDEVELOPMENT WORKS LANDSCAPE PLAN PLANTING SCHEDULE			
				DATE: AUGUST 2022 SHEET 19 OF 22 DRAWING No: 2508/1018			
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LEGEND:



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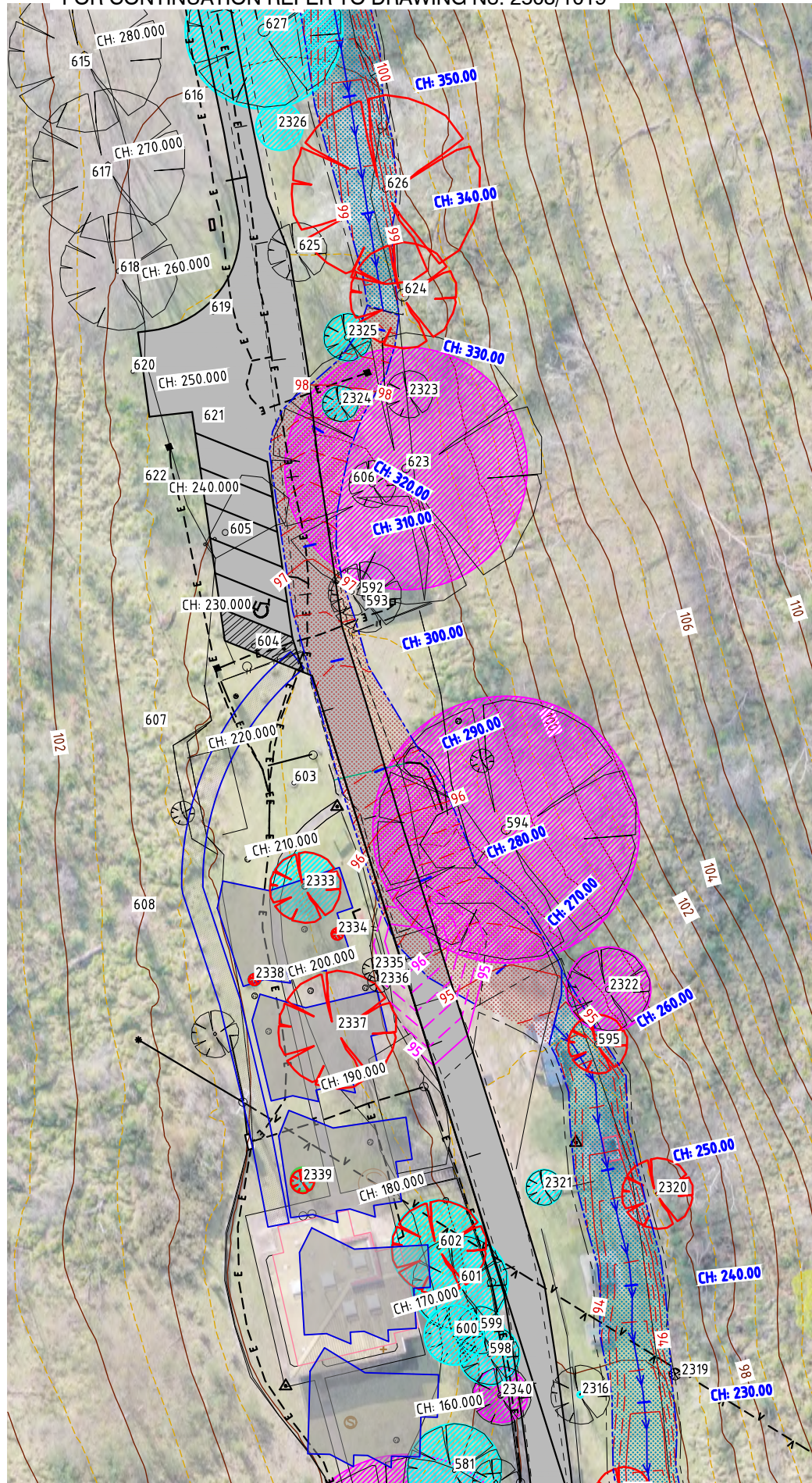
1. FOR NOTES AND LEGEND REFER TO DRAWING No. 2508/1001.



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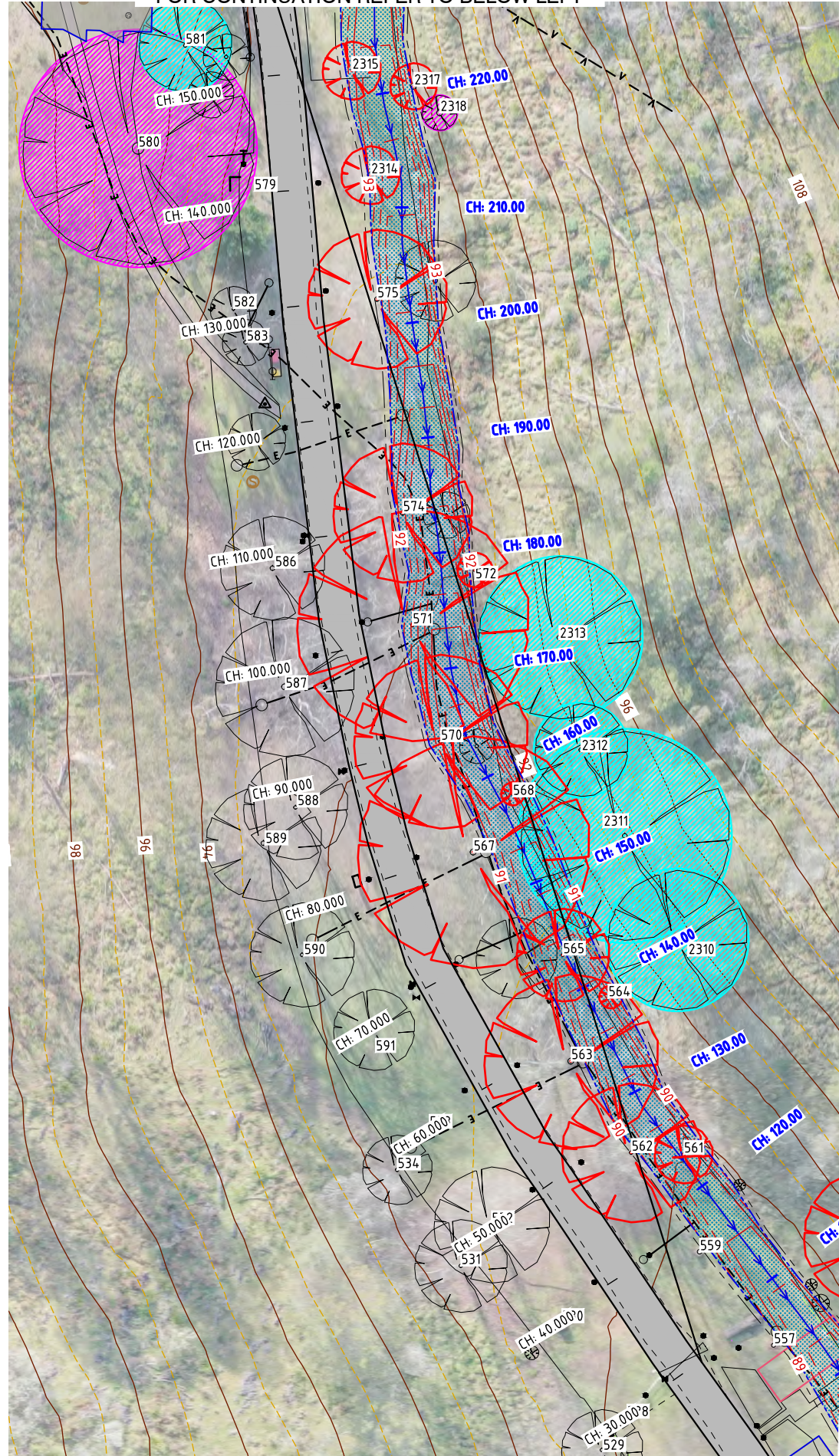
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FOR CONTINUATION REFER TO DRAWING No. 2508/1019



FOR CONTINUATION REFER TO ABOVE RIGHT

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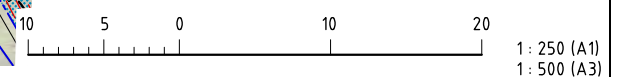
FOR CONTINUATION REFER TO DRAWING No. 2508/1021

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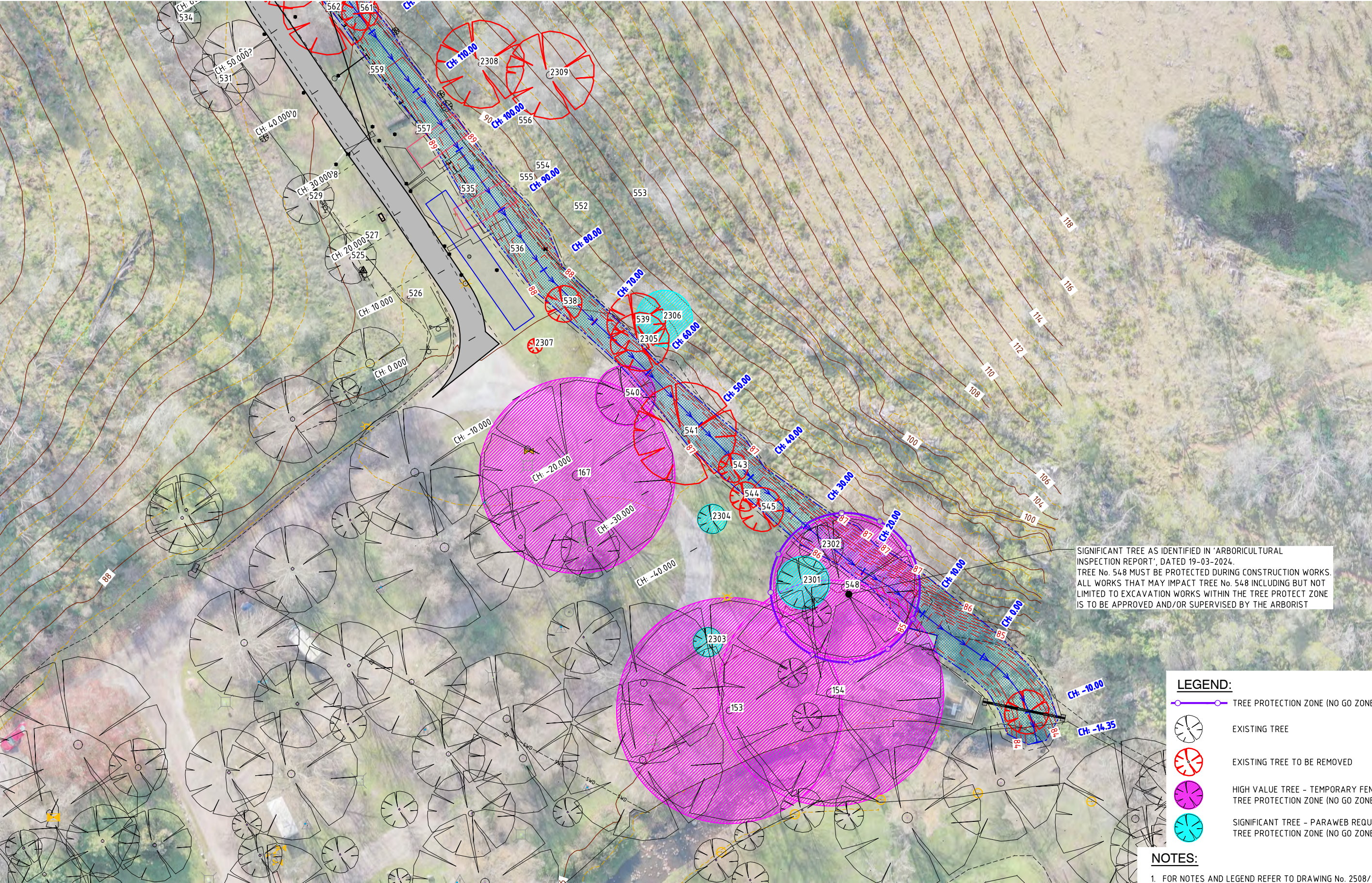
- EXISTING TREE
- EXISTING TREE TO BE REMOVED
- HIGH VALUE TREE - TEMPORARY FENCE REQUIRED
TREE PROTECTION ZONE (NO GO ZONE)
- SIGNIFICANT TREE - PARAWEB REQUIRED
TREE PROTECTION ZONE (NO GO ZONE)

NOTES:

- FOR NOTES AND LEGEND REFER TO DRAWING No. 2508/1001.



Revisions				Crossco Consulting Pty Ltd All Rights Reserved 2022.				Parks Victoria				Parks Victoria			
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C	M.S.	06-06-2023	CONSTRUCTION DESIGN - ISSUED FOR REVIEW					XREF ATTACHED: R:\2508 Aspect PV Buchan Caves Reserve\ACAD\Xref\2508 BP.dwg CAD FILE NAME: R:\2508 Aspect PV Buchan Caves Reserve\ACAD\2508-1020.dwg				PARKS VICTORIA EAST GIPPSLAND SHIRE COUNCIL BUCHAN CAVES RESERVE NORTH ARM REDEVELOPMENT WORKS TREE PROTECTION PLAN SHEET 2 OF 3			
B	M.S.	19-12-2022	DESIGN ISSUE - ISSUED FOR REVIEW									DATE: AUGUST 2022 SHEET 21 OF 22 DRAWING No: 2508/1020			
A	M.S.	01-08-2022	ORIGINAL ISSUE - ISSUED FOR COMMENT												
Rv	APPR.	DATE	REVISIONS												



- LEGEND:**
- TREE PROTECTION ZONE (NO GO ZONE)
 - EXISTING TREE
 - EXISTING TREE TO BE REMOVED
 - HIGH VALUE TREE - TEMPORARY FENCE REQUIRED
TREE PROTECTION ZONE (NO GO ZONE)
 - SIGNIFICANT TREE - PARAWEB REQUIRED
TREE PROTECTION ZONE (NO GO ZONE)

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1 : 500 (A3)

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