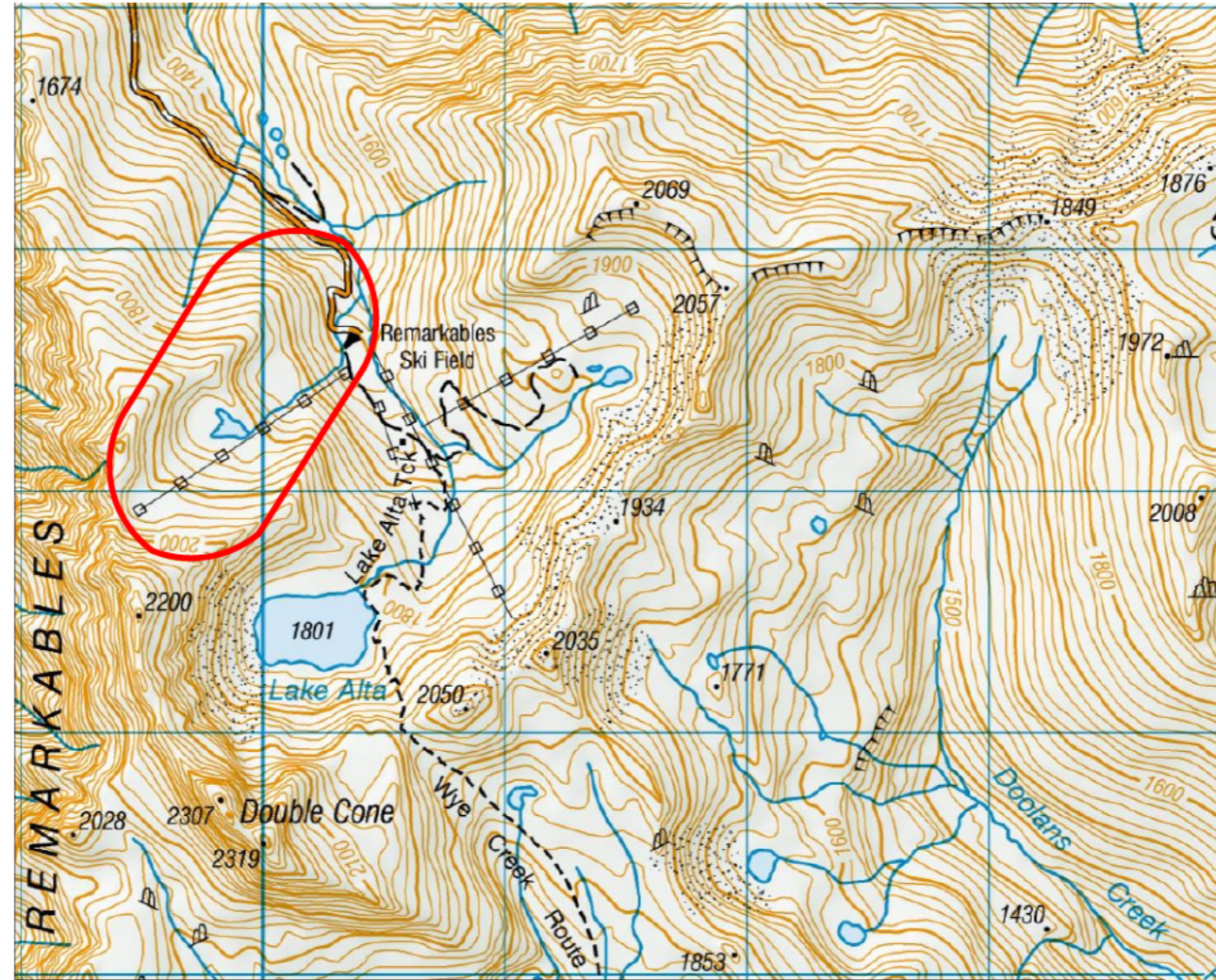


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For Consent



# Proposed Shadow Basin Works



REVISION	DESCRIPTION	DATE
A	Original Issue	31/03/2022
B	Updated Design	04/05/2022
C	Additional Notes	19/05/2022

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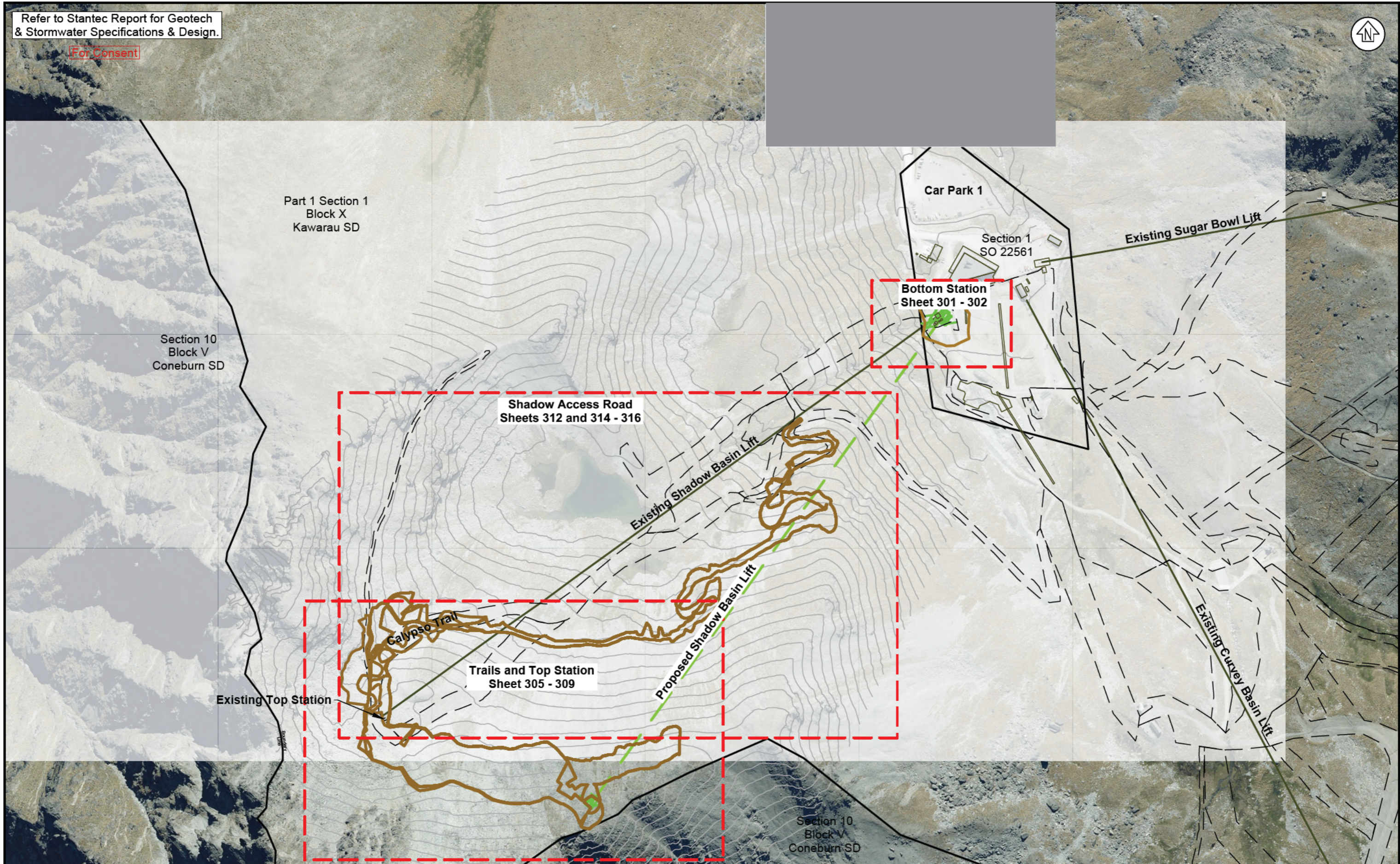
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## The Remarkables Proposed Shadow Basin Works Cover

PREPARED FOR						SCALE	
						DATUM & LEVEL	
						NZTM LEVEL IN TERMS OF 81e Datum ORIGIN IS XLIX 80 22561 RL=1637.613	
SURVEYED						DRAWING REFERENCE	
-	AJHB	MS	AJHB	AJHB	DATE	W3021_E1	REVISION
				31/03/2022		E100	C

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REVISION	DESCRIPTION	DATE
A	Original Issue	31/03/2022
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C	Additional Notes	19/05/2022

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### The Remarkables Proposed Shadow Basin Works Overall Plan View

PREPARED FOR						SCALE 1:5000 @ A3	
						DATUM & LEVEL NZTM	
						LEVEL IN TERMS OF 6 to Datum ORIGIN: 16 XLIX SO 22561 RL=1637.613	
DRAWING REFERENCE W3021_E1						REVISION C	
SURVEYED	DESIGNED	DRAWN	CHECKED	APPROVED	DATE	SHEET E300	
-	AJHB	MS	AJHB	AJHB	31/03/2022		

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**CUT**

<-25.0 to	-14.0 m
-14.0 to	-12.0 m
-12.0 to	-10.0 m
-10.0 to	-8.0 m
-8.0 to	-6.0 m
-6.0 to	-4.0 m
-4.0 to	-2.0 m
-2.0 to	-0.0 m
0.0 to	2.0 m
2.0 to	4.0 m
4.0 to	6.0 m
6.0 to	8.0 m
8.0 to	10.0 m
10.0 to	12.0 m
12.0 to	14.0 m
14.0 to	>25.0 m

**FILL**

**EARTHWORKS SUMMARY - BOTTOM STATION**

Note: Cut and Fill Volumes have been calculated between existing and finished surface (with a bulking factor applied to cut)

Area (m <sup>2</sup> )	Cut (m <sup>3</sup> )	Fill (m <sup>3</sup> )	Balance (m <sup>3</sup> )
3,900	-10,800	300	-10,500 To be Balanced with Car Park 2 Earthworks

**Legend**

- Proposed Snow Making Cushionfield
- Wetlands
- Design Contour - Major
- Design Contour - Minor
- Proposed Lift Alignment
- Proposed Tower (Doppelmayr)
- Proposed Service Trench
- Stream



REVISION	DESCRIPTION	DATE
A	Original Issue	31/03/2022
B	Updated Design	04/05/2022
C	Additional Notes	19/05/2022

The Remarkables  
Proposed Shadow Basin Works  
Bottom Station - Cut and Fill Depths

PREPARED FOR: **nzski**

SCALE: 1:500 @ A3

DATUM & LEVEL: NZTM

LEVEL IN TERMS OF 8 m Datum

ORIGIN: IS XLIX 80 22561 RL=1637.613

DRAWING REFERENCE: W3021\_E1

REVISION: C

SURVEYED	DESIGNED	DRAIN	CHECKED	APPROVED	DATE
-	AJHB	MS	AJHB	AJHB	31/03/2022

SHEET: E301

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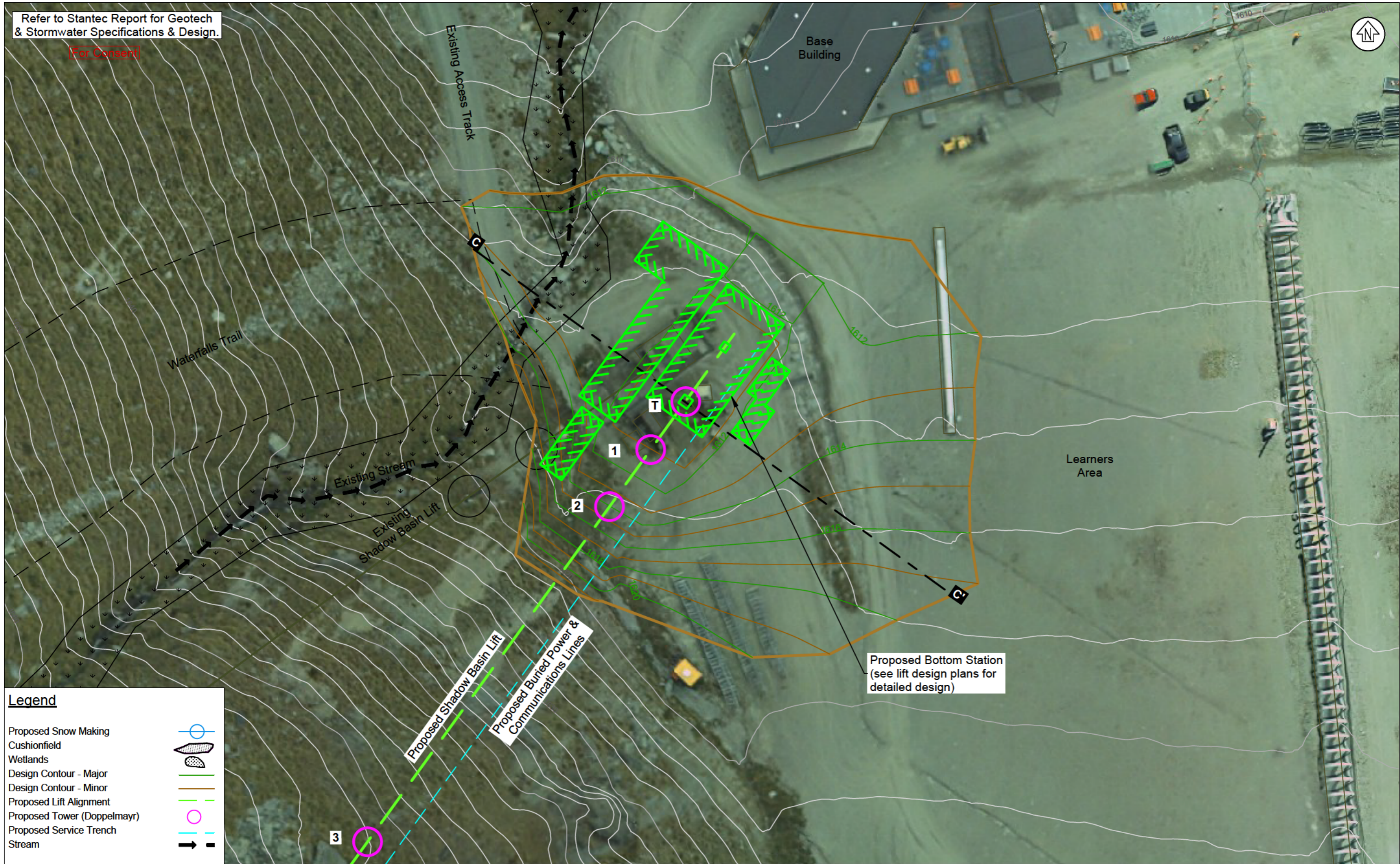
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CSNZ THE CONSULTING SURVEYORS OF NEW ZEALAND

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Refer to Stantec Report for Geotech & Stormwater Specifications & Design.

For Consent



**Legend**

- Proposed Snow Making Cushionfield
- Wetlands
- Design Contour - Major
- Design Contour - Minor
- Proposed Lift Alignment
- Proposed Tower (Doppelmayr)
- Proposed Service Trench
- Stream

**SOUTHERN LAND**  
DEVELOPMENT CONSULTANTS

REVISION	DESCRIPTION	DATE
A	Original Issue	31/03/2022
B	Updated Design	04/05/2022
C	Additional Notes	19/05/2022

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The Remarkables  
Proposed Shadow Basin Works  
Bottom Station - Plan View

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PREPARED FOR

SCALE: 1:500 @ A3

DATUM & LEVEL: NZTM  
LEVEL IN TERMS OF 8 m Datum  
ORIGIN: IS XLIX 80 22561 RL=1637.613

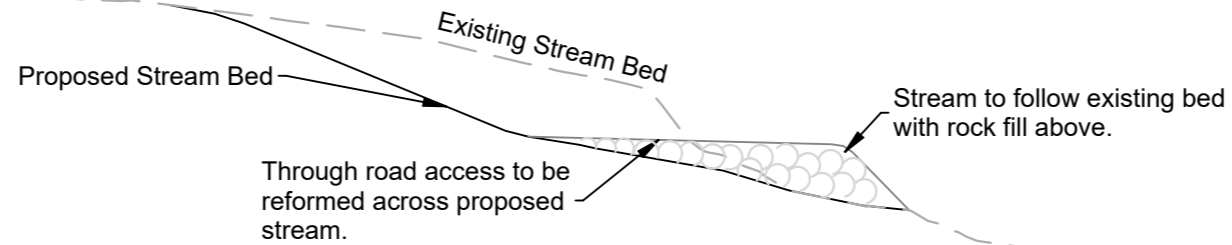
DRAWING REFERENCE: W3021\_E1  
REVISION: C

SURVEYED	DESIGNED	DRAWN	CHECKED	APPROVED	DATE
-	AJHB	MS	AJHB	AJHB	31/03/2022

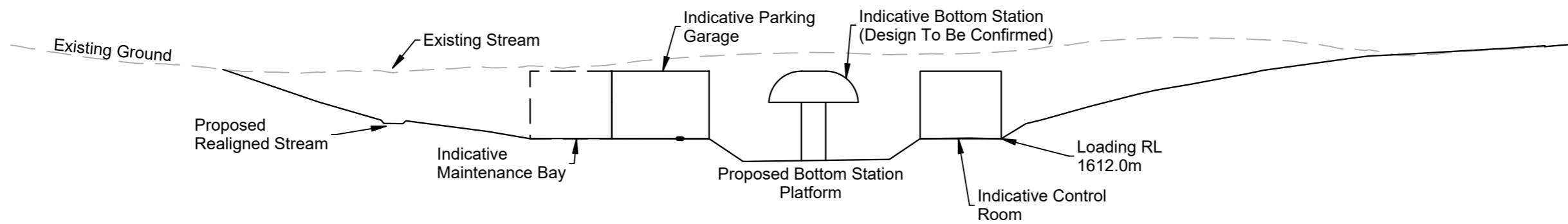
SHEET: E302

Refer to Stantec Report for Geotech & Stormwater Specifications & Design.

For Consent



Proposed Stream Realignment  
Long Section  
Not To Scale



Proposed Bottom Station Cross Section  
C - C'  
Not To Scale



REVISION	DESCRIPTION	DATE
A	Original Issue	31/03/2022
B	Updated Design	04/05/2022
C	Additional Notes	19/05/2022

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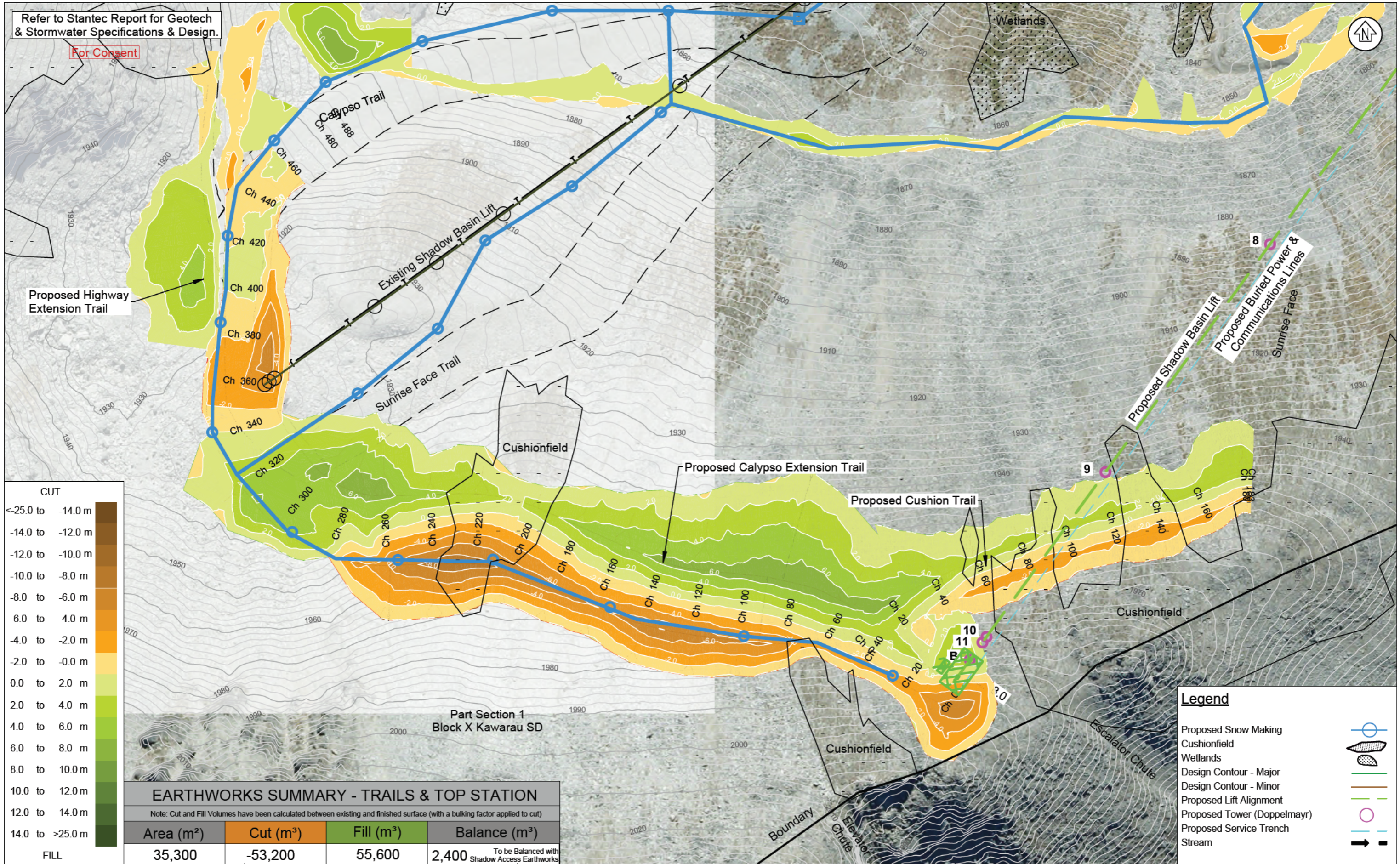
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The Remarkables  
Proposed Shadow Basin Works  
Bottom Station - Section Views

PREPARED FOR						SCALE	
						DATUM & LEVEL	
						NZTM LEVEL IN TERMS OF S to Datum ORIGIN: IS XLIX SO 22561 RL=1637.613	
SURVEYED						DRAWING REFERENCE	
-	AJHB	MS	AJHB	AJHB	31/03/2022	W3021_E1	REVISION
						E303	C

Refer to Stantec Report for Geotech & Stormwater Specifications & Design.

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CUT	
<-25.0 to	-14.0 m
-14.0 to	-12.0 m
-12.0 to	-10.0 m
-10.0 to	-8.0 m
-8.0 to	-6.0 m
-6.0 to	-4.0 m
-4.0 to	-2.0 m
-2.0 to	-0.0 m
0.0 to	2.0 m
2.0 to	4.0 m
4.0 to	6.0 m
6.0 to	8.0 m
8.0 to	10.0 m
10.0 to	12.0 m
12.0 to	14.0 m
14.0 to	>25.0 m

FILL	
<-25.0 to	-14.0 m
-14.0 to	-12.0 m
-12.0 to	-10.0 m
-10.0 to	-8.0 m
-8.0 to	-6.0 m
-6.0 to	-4.0 m
-4.0 to	-2.0 m
-2.0 to	-0.0 m
0.0 to	2.0 m
2.0 to	4.0 m
4.0 to	6.0 m
6.0 to	8.0 m
8.0 to	10.0 m
10.0 to	12.0 m
12.0 to	14.0 m
14.0 to	>25.0 m

EARTHWORKS SUMMARY - TRAILS & TOP STATION			
Note: Cut and Fill Volumes have been calculated between existing and finished surface (with a bulking factor applied to cut)			
Area (m <sup>2</sup> )	Cut (m <sup>3</sup> )	Fill (m <sup>3</sup> )	Balance (m <sup>3</sup> )
35,300	-53,200	55,600	2,400
			To be Balanced with Shadow Access Earthworks

Legend	
Proposed Snow Making	
Cushionfield	
Wetlands	
Design Contour - Major	
Design Contour - Minor	
Proposed Lift Alignment	
Proposed Tower (Doppelmayr)	
Proposed Service Trench	
Stream	



REVISION	DESCRIPTION	DATE
A	Original Issue	31/03/2022
B	Updated Design	04/05/2022
C	Additional Notes	19/05/2022

## The Remarkables Proposed Shadow Basin Works Trails and Top Station - Cut and Fill Depths

PREPARED FOR: **nzski**

SCALE: 1:1500 @ A3

DATUM & LEVEL: NZTM

LEVEL IN TERMS OF 8 to Datum  
ORIGIN: IS XLIX 80 22561 RL=1637.613

DRAWING REFERENCE: W3021\_E1

REVISION: C

SHEET: E305

DATE: 31/03/2022

Refer to Stantec Report for Geotech & Stormwater Specifications & Design.

For Consent



Proposed Highway Extension Trail

Existing Shadow Basin Lift

Sunrise Face Trail

Cushionfield

**Legend**

- Proposed Snow Making
- Cushionfield
- Wetlands
- Design Contour - Major
- Design Contour - Minor
- Proposed Lift Alignment
- Proposed Tower (Doppelmayr)
- Proposed Service Trench
- Stream

REVISION	DESCRIPTION	DATE
A	Original Issue	31/03/2022
B	Updated Design	04/05/2022
C	Additional Notes	19/05/2022

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The Remarkables  
 Proposed Shadow Basin Works  
 Trails and Top Station - Plan 1

PREPARED FOR						SCALE 1:750 @ A3	
						DATUM & LEVEL NZTM	
						LEVEL IN TERMS OF 8 to Datum ORIGIN: IS XLIX 80 22561 RL=1637.613	
DRAWING REFERENCE W3021_E1						REVISION C	
SURVEYED	DESIGNED	DRAIN	CHECKED	APPROVED	DATE	SHEET E306	
-	AJHB	MS	AJHB	AJHB	31/03/2022	E306	

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For Consent



**Legend**

- Proposed Snow Making Cushionfield Wetlands
- Design Contour - Major
- Design Contour - Minor
- Proposed Lift Alignment
- Proposed Tower (Doppelmayr)
- Proposed Service Trench
- Stream

REVISION	DESCRIPTION	DATE
A	Original Issue	31/03/2022
B	Updated Design	04/05/2022
C	Additional Notes	19/05/2022

The Remarkables  
Proposed Shadow Basin Works  
Trails and Top Station - Plan 2

PREPARED FOR

SCALE: 1:750 @ A3

DATUM & LEVEL: NZTM

LEVEL IN TERMS OF 8 to Datum: ORIGINAL IS XLIX 80 22561 RL=1637.613

DRAWING REFERENCE: W3021\_E1

REVISION: C

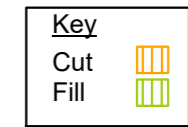
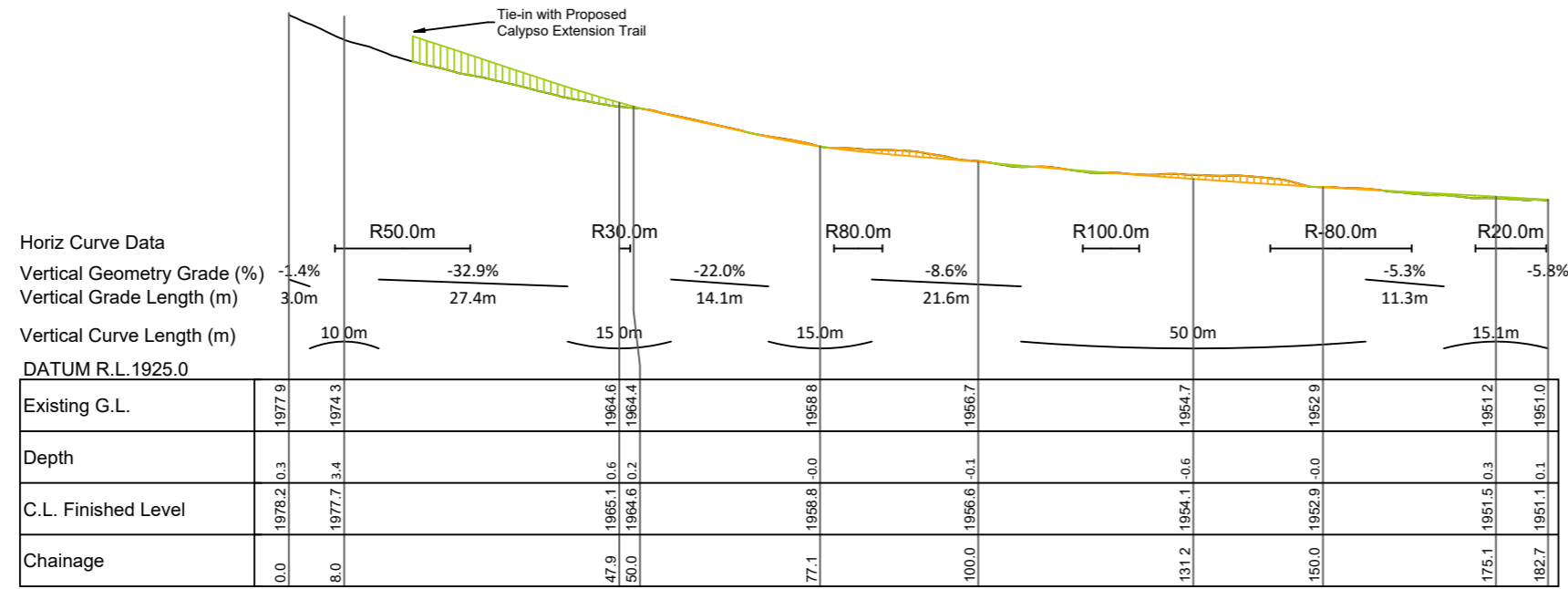
SURVEYED	DESIGNED	DRAWN	CHECKED	APPROVED	DATE
-	AJHB	MS	AJHB	AJHB	31/03/2022

SHEET: E307



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Hz Scale 1:1000 @ A3  
Vert Scale 1:1000 @ A3



REVISION	DESCRIPTION	DATE
A	Original Issue	31/03/2022
B	Updated Design	04/05/2022
C	Additional Notes	19/05/2022

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### The Remarkables Proposed Shadow Basin Works Trails - Cushion - Longsection

PREPARED FOR



SCALE  
1:1000 @ A3

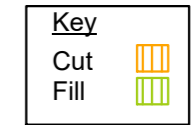
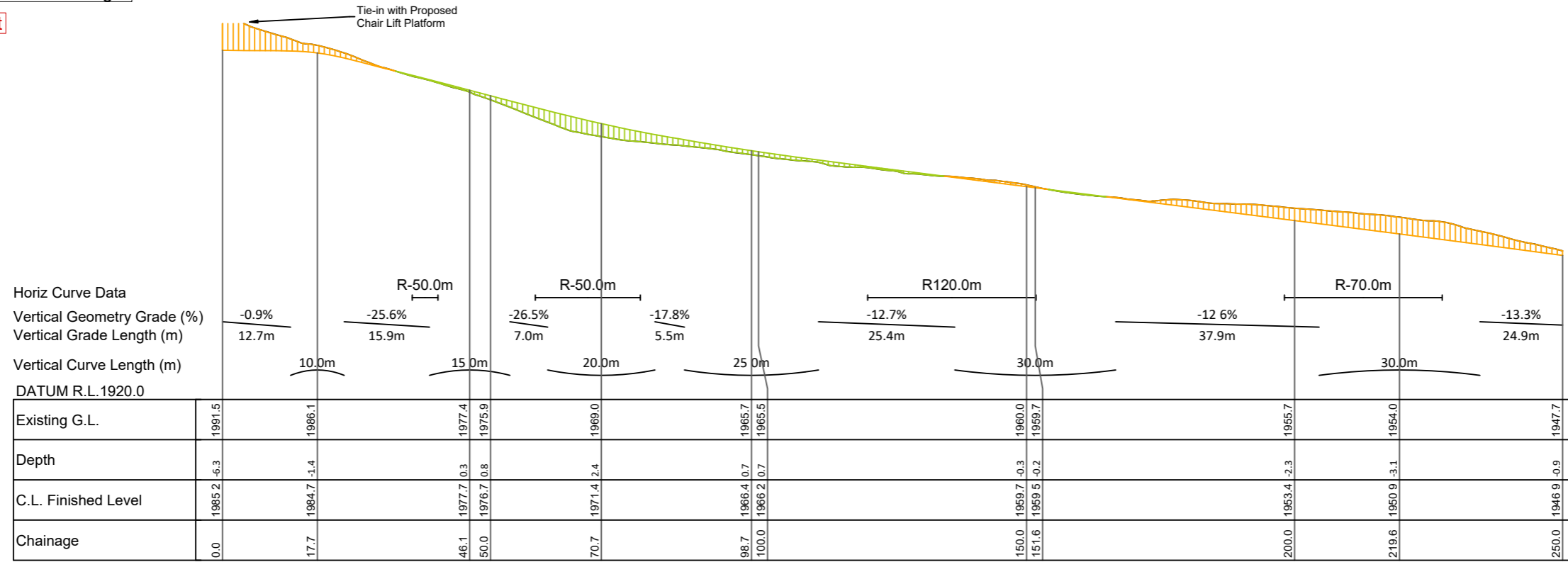
DATUM & LEVEL  
NZTM  
LEVEL IN TERMS OF S to Datum  
ORIGIN: IS XLIX SO 22561 RL=1637.613

SURVEYED	DESIGNED	DRAWN	CHECKED	APPROVED	DATE
-	AJHB	MS	AJHB	AJHB	31/03/2022

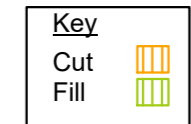
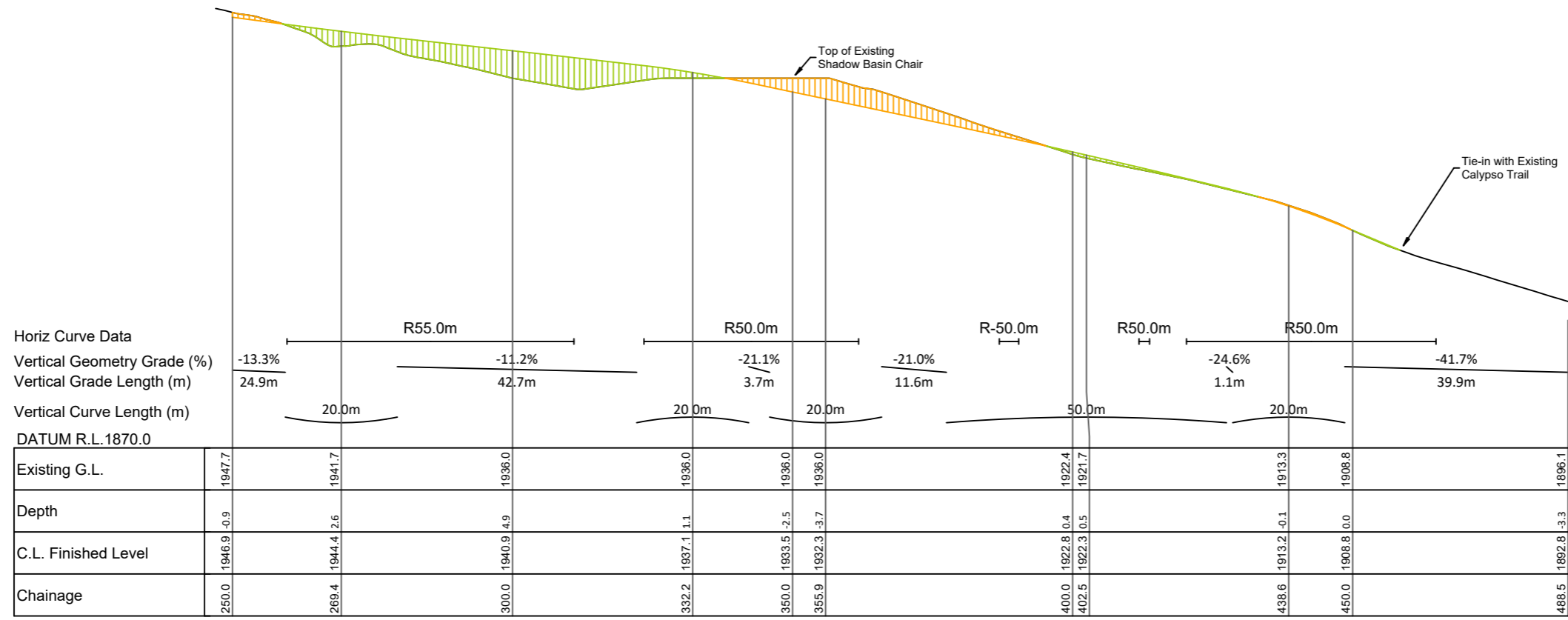
DRAWING REFERENCE	REVISION
W3021_E1	C
E308	

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For Consent



Hz Scale 1:1000 @ A3  
 Vert Scale 1:1000 @ A3



Hz Scale 1:1000 @ A3  
 Vert Scale 1:1000 @ A3



REVISION	DESCRIPTION	DATE
A	Original Issue	31/03/2022
B	Updated Design	04/05/2022
C	Additional Notes	19/05/2022

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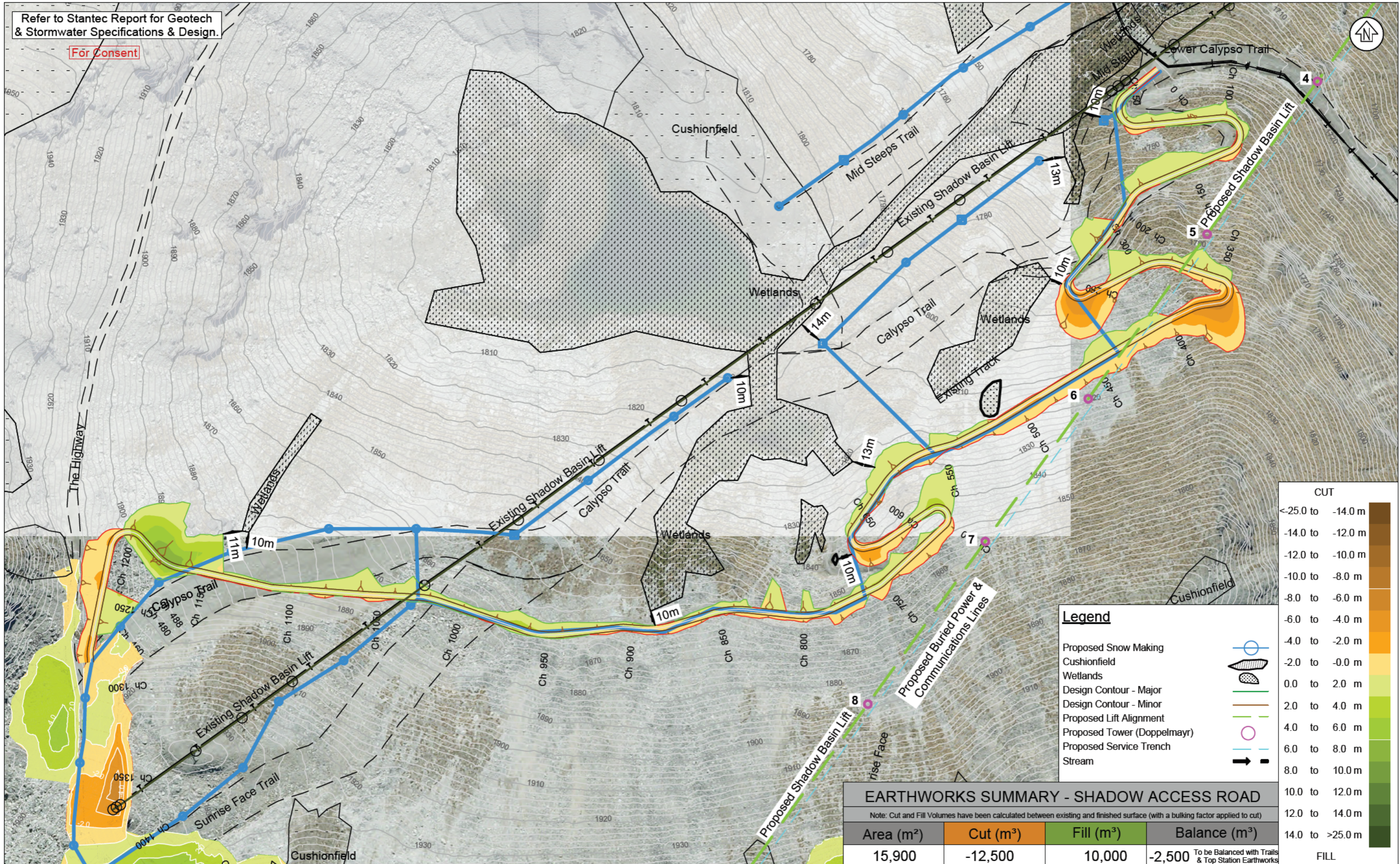
## The Remarkables Proposed Shadow Basin Works Trails - Calypso Extension - Longsection

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PREPARED FOR						SCALE 1:1000 @ A3	
						DATUM & LEVEL NZTM	
						LEVEL IN TERMS OF S to Datum ORIGIN: IS XLIX SO 22561 RL=1637.613	
DRAWING REFERENCE W3021_E1						REVISION C	
SURVEYED	DESIGNED	DRAWN	CHECKED	APPROVED	DATE	SHEET E309	
-	AJHB	MS	AJHB	AJHB	31/03/2022		

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For Consent



REVISION	DESCRIPTION	DATE
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B	Updated Design	04/05/2022
C	Additional Notes	19/05/2022

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### The Remarkables Proposed Shadow Basin Works Track - Cut and Fill Depths

PREPARED FOR

SCALE: 1:2000 @ A3

DATUM & LEVEL: NZTM

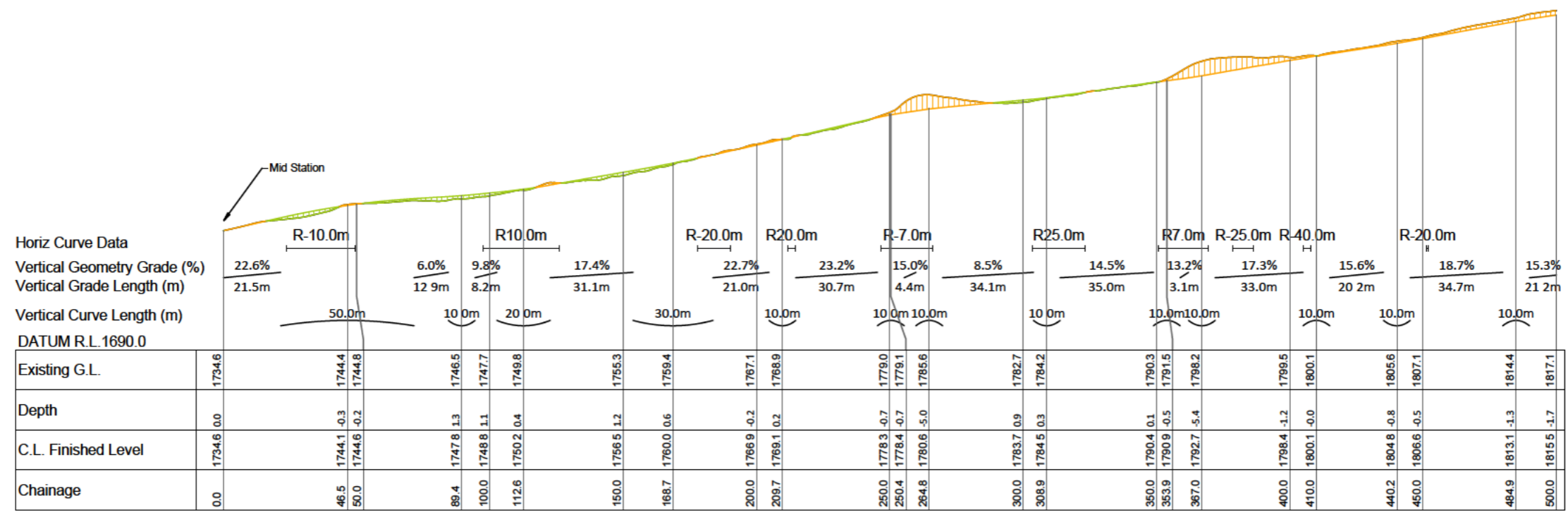
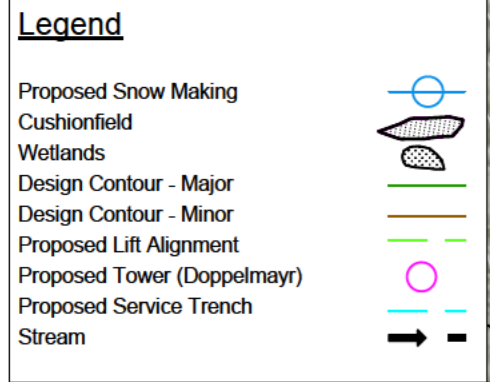
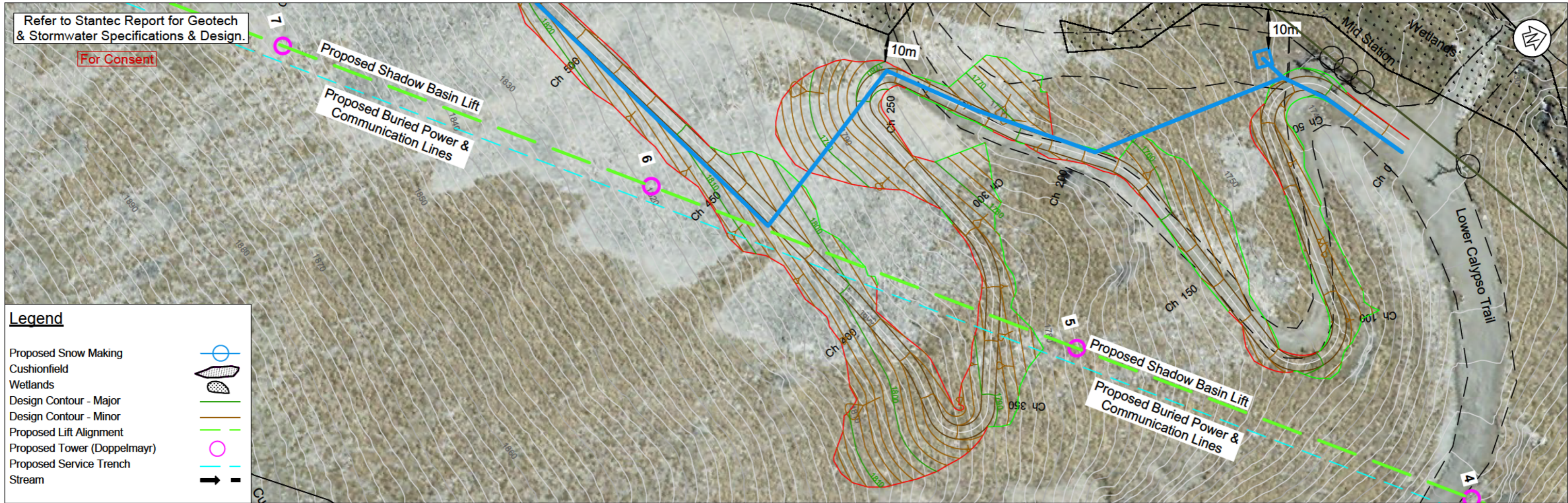
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ORIGIN: 16 XLIX 80 22561 RL=1637.613

DRAWING REFERENCE: W3021\_E1

REVISION: C

SHEET: E312

DATE: 31/03/2022



REVISION	DESCRIPTION	DATE
A	Original Issue	31/03/2022
B	Updated Design	04/05/2022
C	Additional Notes	19/05/2022

### The Remarkables Proposed Shadow Basin Works Track - Longsection and Plan View

PREPARED FOR

SCALE: 1:1000 @ A3

DATUM & LEVEL: NZTM

LEVEL IN TERMS OF B to Datum

ORIGIN: IS XLIX SO 22561 RL=1637.613

DRAWING REFERENCE: W3021\_E1

REVISION: C

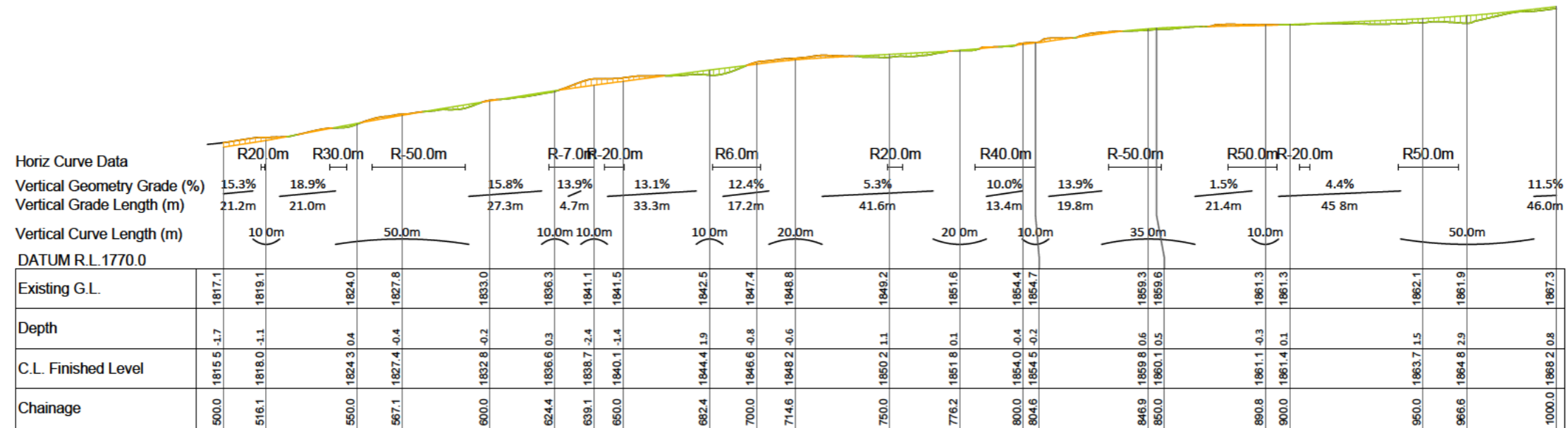
SHEET: E314

DATE: 31/03/2022



**Legend**

- Proposed Snow Making Cushionfield
- Wetlands
- Design Contour - Major
- Design Contour - Minor
- Proposed Lift Alignment
- Proposed Tower (Doppelmayr)
- Proposed Service Trench
- Stream



**Key**  
 Cut  
 Fill

Hz Scale 1:2000 @ A3  
 Vert Scale 1:2000 @ A3



REVISION	DESCRIPTION	DATE
A	Original Issue	31/03/2022
B	Updated Design	04/05/2022
C	Additional Notes	19/05/2022

The Remarkables  
 Proposed Shadow Basin Works  
 Track - Longsection and Plan View

PREPARED FOR: **nzski**

SCALE: 1:1000 @ A3

DATUM & LEVEL: NZTM  
 LEVEL IN TERMS OF 8 to Datum  
 ORIGIN IS XLIX 80 22561 RL=1637.613

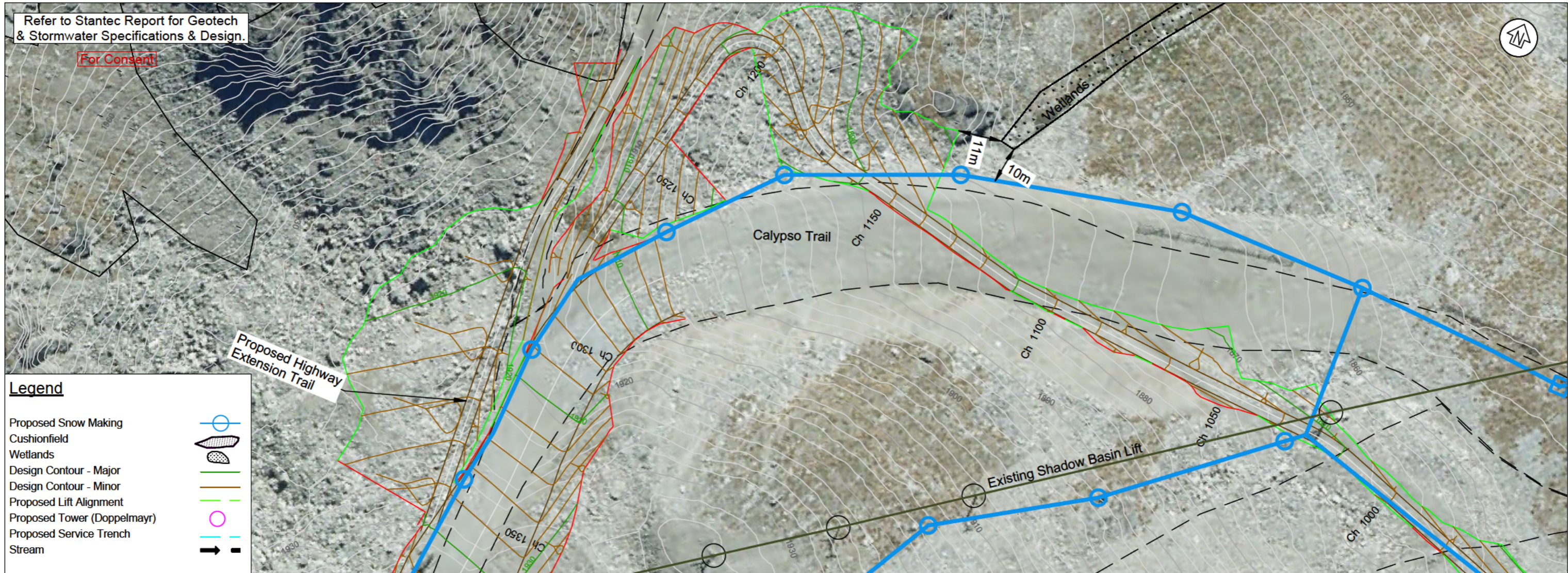
DRAWING REFERENCE: W3021\_E1  
 SHEET: E315

REVISION: C

SURVEYED	DESIGNED	DRAIN	CHECKED	APPROVED	DATE
-	AJHB	MS	AJHB	AJHB	31/03/2022

Refer to Stantec Report for Geotech & Stormwater Specifications & Design.

For Consent



**Legend**

- Proposed Snow Making Cushionfield
- Wetlands
- Design Contour - Major
- Design Contour - Minor
- Proposed Lift Alignment
- Proposed Tower (Doppelmayr)
- Proposed Service Trench
- Stream



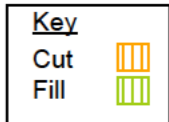
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Vertical Geometry Grade (%)  
Vertical Grade Length (m)

Vertical Curve Length (m)

DATUM R.L. 1820.0

	1000.0	1042.6	1050.0	1078.2	1100.0	1113.4	1146.8	1150.0	1191.4	1200.0	1216.0	1250.0	1262.9	1285.0	1300.0	1304.7	1331.6	1350.0	1369.9	1400.0	1400.3	1447.1	1450.0	1464.6	1500.0	
Existing G.L.	1867.3	1872.6	1873.7	1874.3	1877.6	1880.5	1887.6	1888.2	1892.4	1895.8	1901.8	1908.4	1910.1	1915.9	1917.2	1918.0	1923.8	1928.7	1936.0	1935.3	1935.3	1942.0	1943.5	1943.5	1946.7	1948.6
Depth	0.8	0.4	-0.4	0.8	0.6	0.2	0.1	0.1	4.4	2.3	-1.3	-0.7	0.3	-1.9	-0.1	-0.0	0.1	-2.0	-4.2	2.2	2.3	1.5	0.3	-1.3	-0.1	
C.L. Finished Level	1868.2	1872.9	1873.3	1875.0	1878.2	1880.7	1887.6	1888.3	1896.8	1898.2	1900.5	1907.7	1910.4	1914.1	1917.0	1918.0	1924.0	1927.7	1931.8	1937.5	1937.6	1943.5	1943.8	1945.4	1948.6	1948.6
Chainage	1000.0	1042.6	1050.0	1078.2	1100.0	1113.4	1146.8	1150.0	1191.4	1200.0	1216.0	1250.0	1262.9	1285.0	1300.0	1304.7	1331.6	1350.0	1369.9	1400.0	1400.3	1447.1	1450.0	1464.6	1500.0	



Hz Scale 1:2000 @ A3  
Vert Scale 1:2000 @ A3



REVISION	DESCRIPTION	DATE
A	Original Issue	31/03/2022
B	Updated Design	04/05/2022
C	Additional Notes	19/05/2022

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The Remarkables  
Proposed Shadow Basin Works  
Track - Longsection and Plan View

PREPARED FOR

SCALE: 1:1000 @ A3

DATUM & LEVEL: NZTM

LEVEL IN TERMS OF 81e Datum  
ORIGIN: IS XLIX 80 22561 RL=1637.613

DRAWING REFERENCE: W3021\_E1

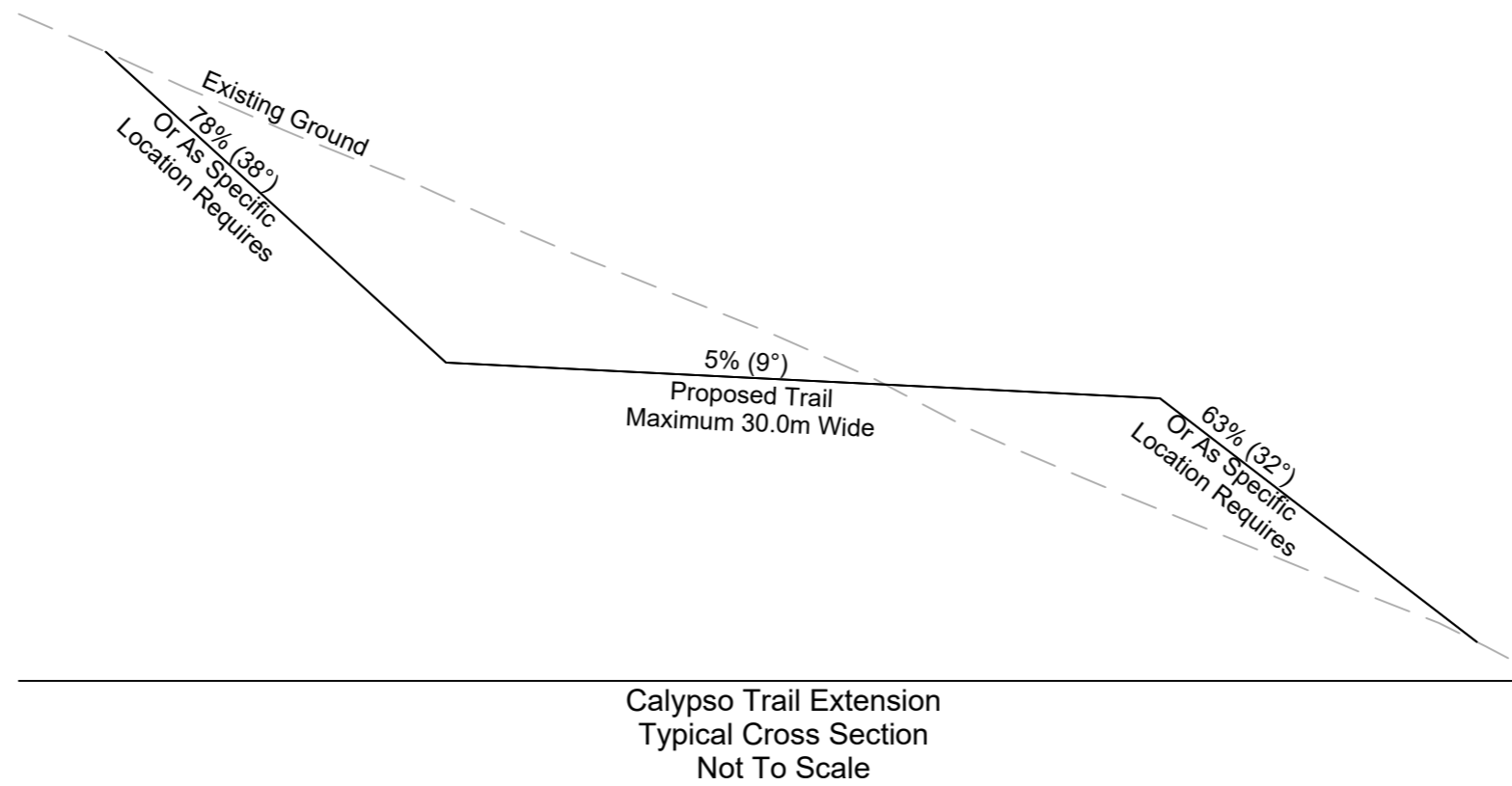
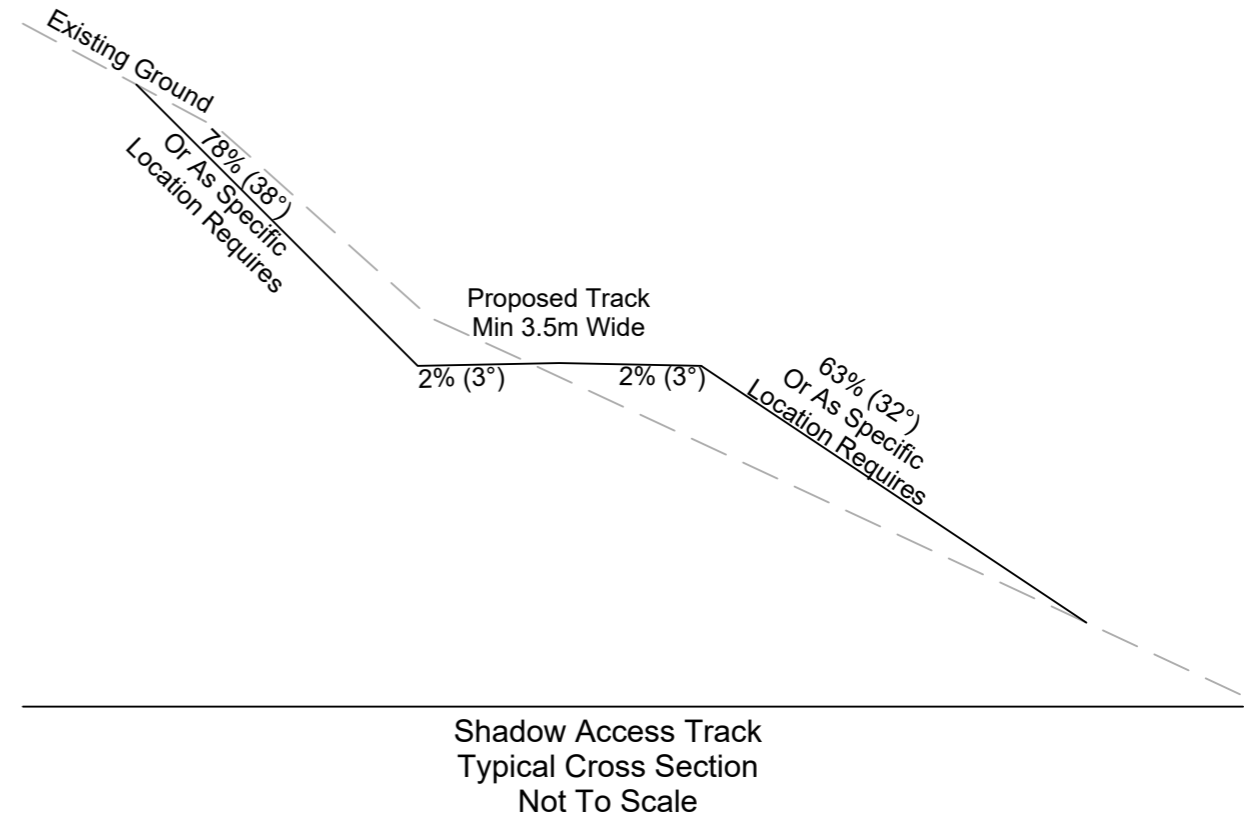
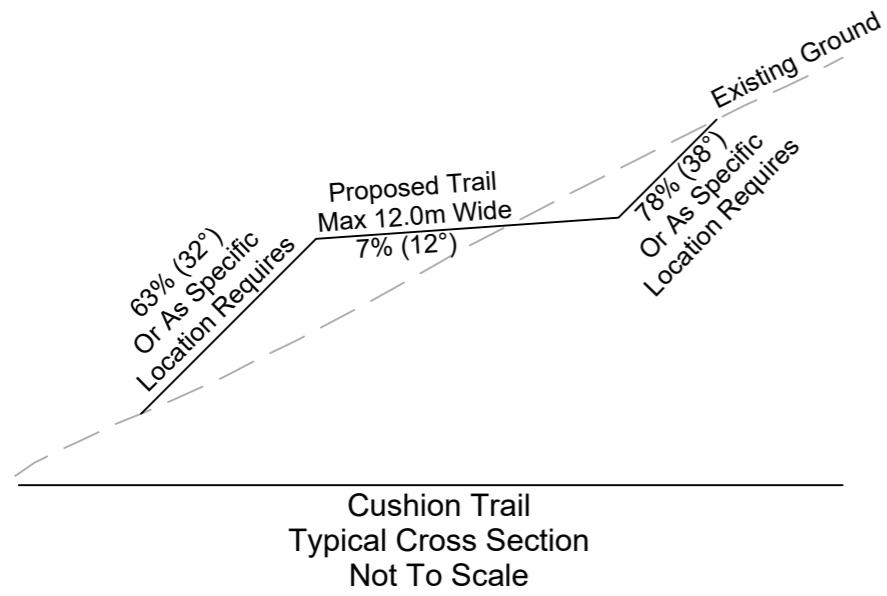
REVISION: C

SHEET: E316

SURVEYED	DESIGNED	DRAIN	CHECKED	APPROVED	DATE
-	AJHB	MS	AJHB	AJHB	31/03/2022

Refer to Stantec Report for Geotech & Stormwater Specifications & Design.

For Consent



REVISION	DESCRIPTION	DATE
A	Original Issue	31/03/2022
B	Updated Design	04/05/2022
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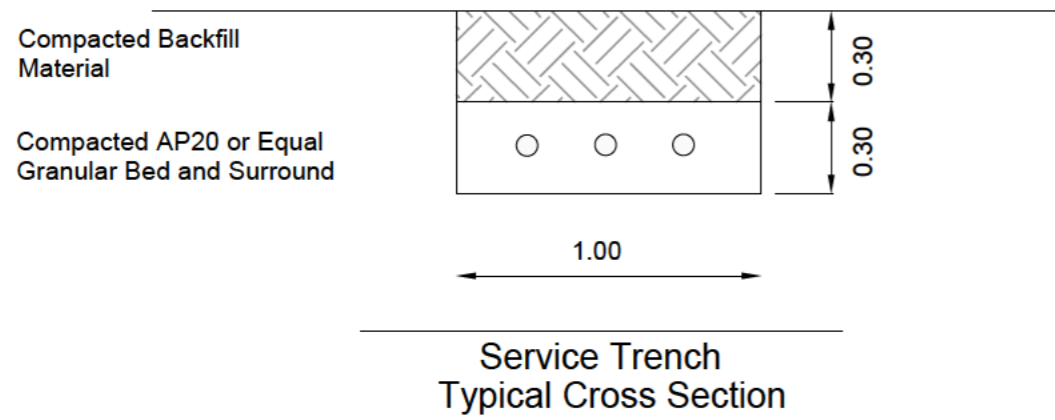
### The Remarkables Proposed Shadow Basin Works Typical Cross Sections

PREPARED FOR						SCALE	
						DATUM & LEVEL	
						NZTM LEVEL IN TERMS OF S to Datum ORIGIN: IS XLIX SO 22561 RL=1637.613	
SURVEYED						DRAWING REFERENCE	
DESIGNED						W3021_E1	
DRAWN						REVISION	
CHECKED						C	
APPROVED						SHEET	
DATE						E318	
31/03/2022							

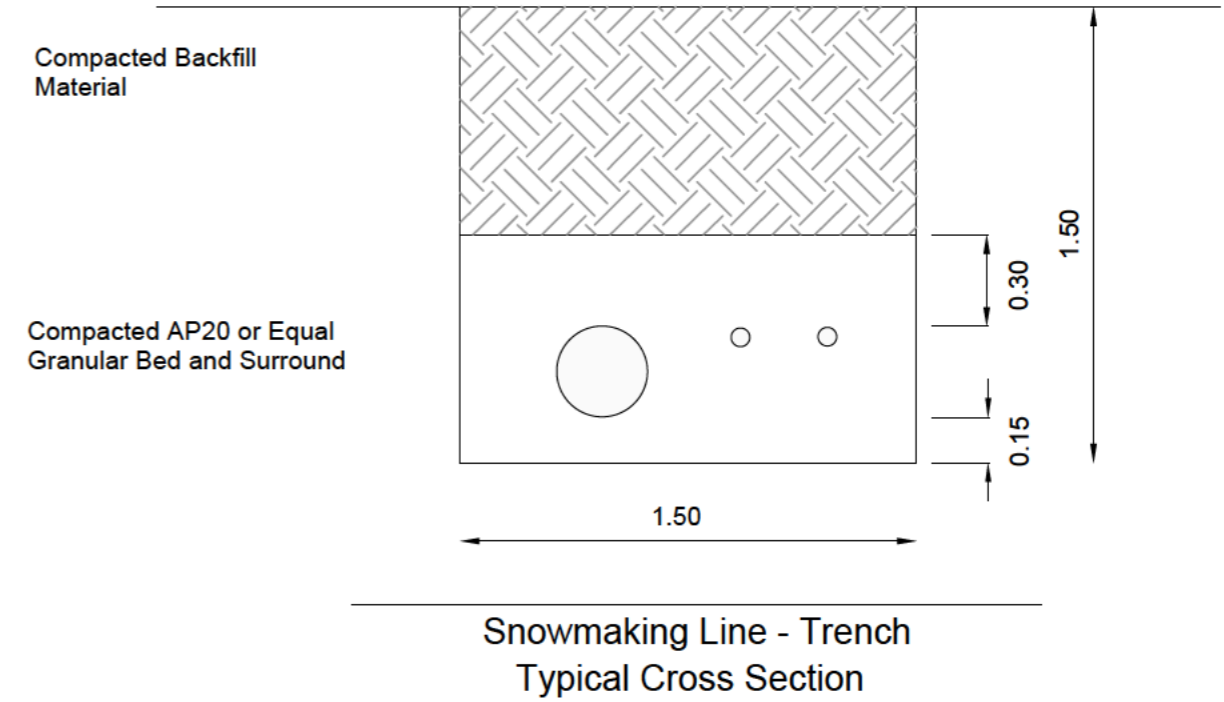
Refer to Stantec Report for Geotech & Stormwater Specifications & Design.

For Consent

Vegetation From Trenches To Be Stripped and Redistributed Upon Completion of Trenching.



Vegetation From Trenches To Be Stripped and Redistributed Upon Completion of Trenching.



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### The Remarkables Proposed Shadow Basin Works Typical Trench Details

PREPARED FOR						SCALE	
						1:25 @ A3	
						DATUM & LEVEL	
						NZTM	
						LEVEL IN TERMS OF 81c Datum	
						ORIGIN: IS XLIX 80 22561 RL=1637.613	
						DRAWING REFERENCE	
						W3021_E1	
						REVISION	
						C	
SURVEYED	DESIGNED	DRAIN	CHECKED	APPROVED	DATE	SHEET	
-	AJHB	MS	AJHB	AJHB	31/03/2022	E319	