

HORIZONTAL GEOMETRY _ ROAD ALIGNMENT									
No.	Entity Type	Length (m)	Start Station	End Station	Start Easting	Start Northing	End Easting	End Northing	Radius (m)
1	Line	93.553	0+234.29	0+327.84	535336.836	5021138.858	535286.516	5021217.724	

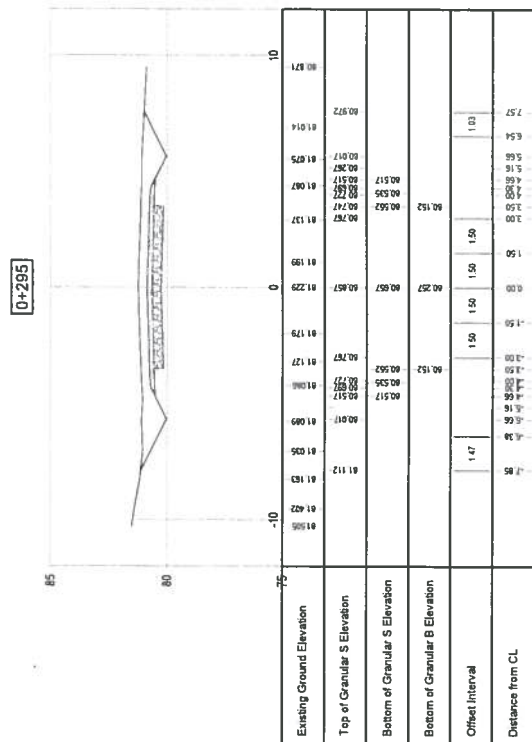
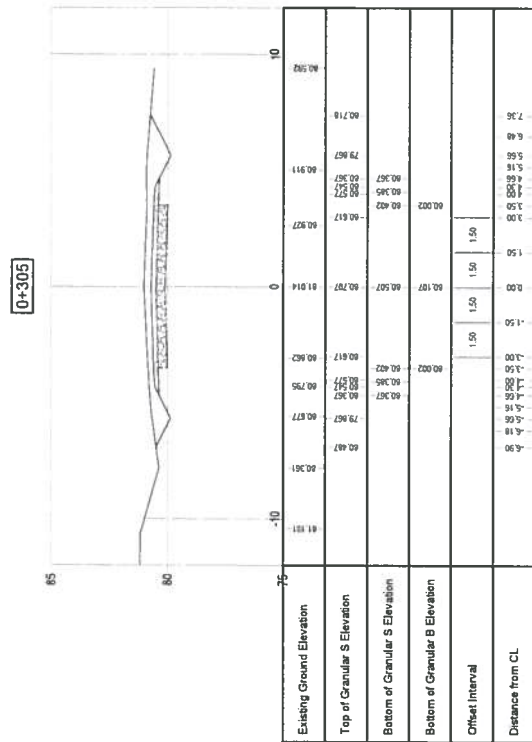
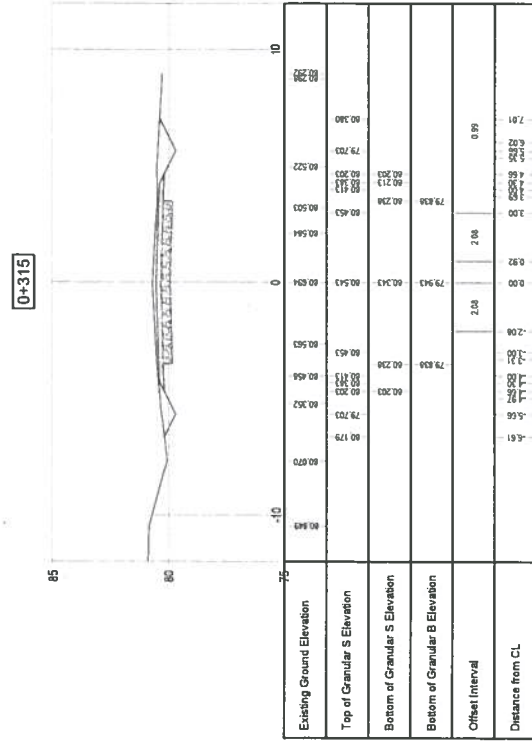
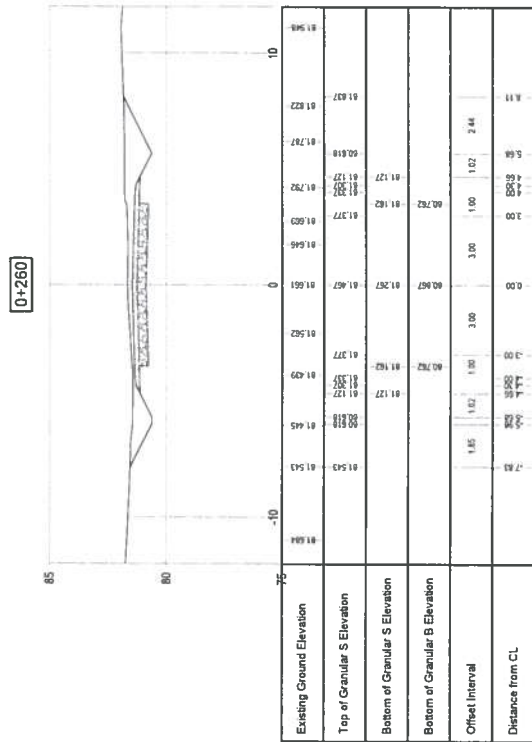
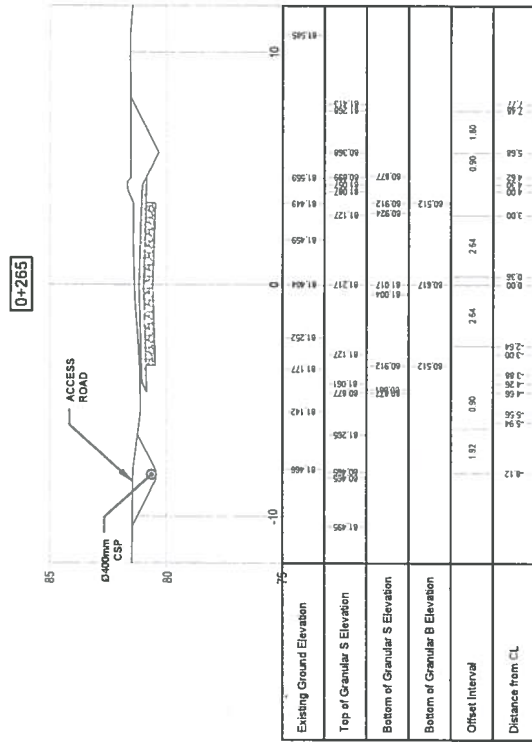
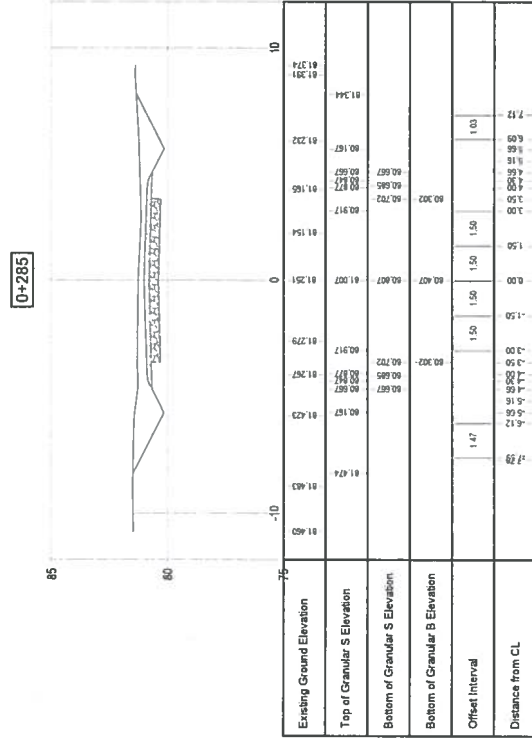
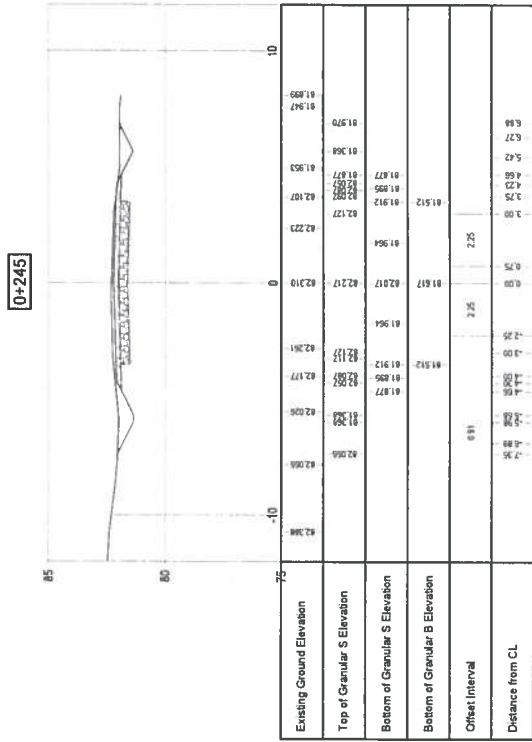
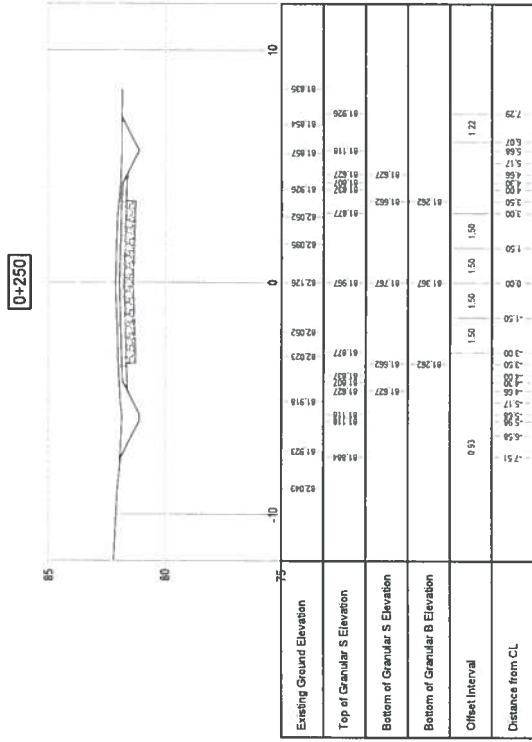
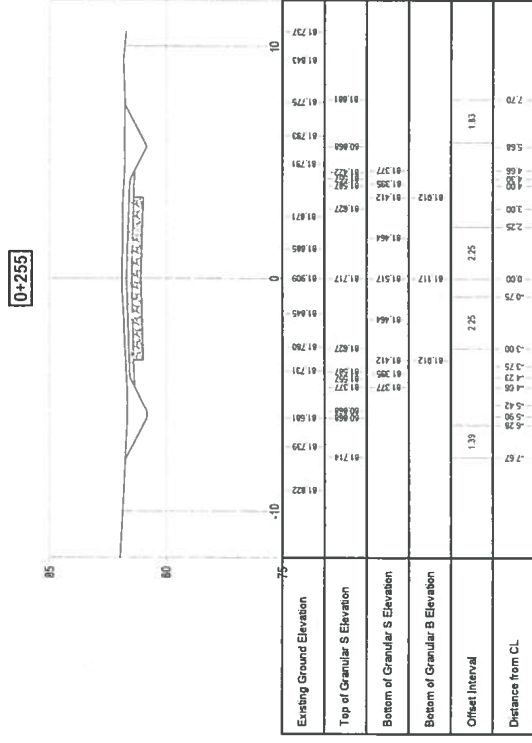
VERTICAL GEOMETRY _ ROAD ALIGNMENT													
No.	Entity Type	Curve Type	Length (m)	Start Station	Start Elevation	End Station	End Elevation	Curve Radius	Grade In	Grade Out	A (Grade Change)	PVI Station	PVI Elevation
1	Symmetric Parabola	Crest	4.743	0+234.29	82.679	0+239.03	82.515	550.031	-3.01 %	-3.88 %	-0.86 %	0+236.66	82.607
2	Tangent		26.641	0+239.03	82.515	0+265.68	81.183		-5.00 %	-5.00 %			
3	Tangent		4.744	0+265.68	81.183	0+270.42	81.088		-2.00 %	-2.00 %			
4	Tangent		8.210	0+270.42	81.088	0+278.63	81.103		0.18 %	0.18 %			
5	Tangent		34.162	0+278.63	81.103	0+312.79	80.590		-1.50 %	-1.50 %			
6	Symmetric Parabola	Crest	15.052	0+312.79	80.590	0+327.84	80.158	550.031	-1.50 %	-4.24 %	-2.74 %	0+320.32	80.477

HORIZONTAL GEOMETRY _ SOUTH WEST DITCH ALIGNMENT									
No.	Entity Type	Length (m)	Start Station	End Station	Start Easting	Start Northing	End Easting	End Northing	Radius (m)
1	Line	27.041	0+234.29	0+261.33	535331.845	5021135.674	535317.300	5021158.470	
2	Line	9.767	0+261.33	0+271.10	535317.300	5021158.470	535308.490	5021162.686	

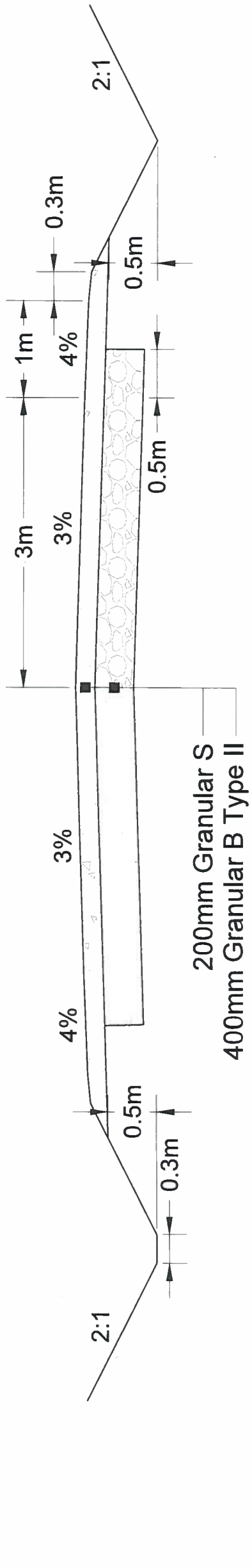
VERTICAL GEOMETRY _ SOUTH WEST DITCH ALIGNMENT								
No.	Entity Type	Length (m)	Start Station	Start Elevation	End Station	End Elevation	Grade In	Grade Out
1	Tangent	27.042	0+234.29	81.904	0+261.33	80.552	-5.00 %	-5.00 %
2	Tangent	9.767	0+261.33	80.552	0+271.10	80.356	-2.00 %	-2.00 %

REVISION		PROJECT		DETAILED ENGINEERING FOR	
REV	DATE	DESCRIPTION	PREPARED BY	DATE	ROLLAND MASSIE ROAD MODIFICATIONS
C	22-09-2022	ISSUED FOR CONSTRUCTION	NICOLAS YEDYNAK (Eng.) OIQ #5081337	14-07-2022	
B	12-08-2022	DRAFT FOR COMMENTS	NICOLAS YEDYNAK (Eng.) OIQ #5081337	18-07-2022	
A	29-07-2022	DRAFT FOR COMMENTS	NICOLAS YEDYNAK (Eng.) OIQ #5081337	28-07-2022	GEOMETRY TABLES HORIZONTAL AND VERTICAL
			VERIFIED BY	DATE	
			DAVID CHOU (P. Eng.) PEO #100517690	28-07-2022	
			APPROVED BY	DATE	
			MARIA-PIA LONGO (P. Eng.) PEO #100544824	28-07-2022	
			FORMAT	ENG'N	REV
			A3		C

EXISTING GROUND	
GRANULAR S	
GRANULAR B	

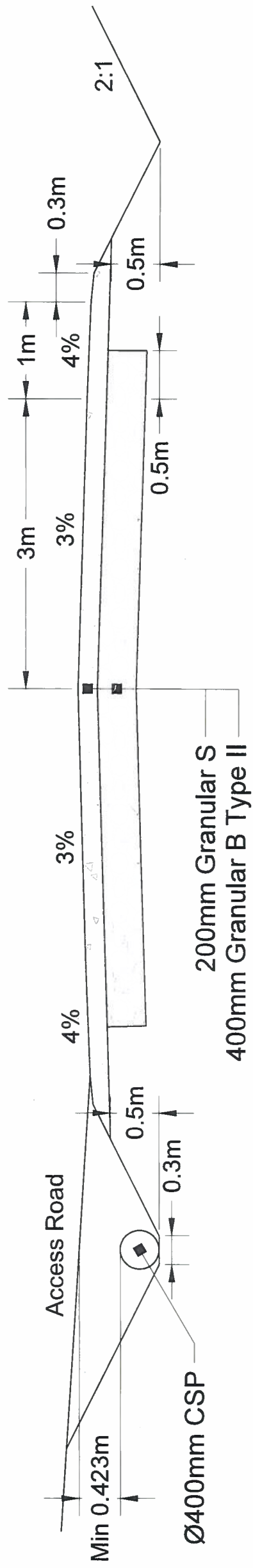


REV	DATE	DESCRIPTION	PREPARED BY	DATE	PROJECT
C	22-08-2022	ISSUED FOR CONSTRUCTION	NICOLAS YEDYNIAK (Eng.) OIQ #5091337	14-07-2022	DETAILED ENGINEERING FOR ROLLAND MASSIE ROAD MODIFICATIONS ROAD ALIGNMENT CROSS SECTIONS KP 0+245 TO KP 0+265, KP 0+285 TO KP 0+315
B	12-08-2022	DRAFT FOR COMMENTS	NICOLAS YEDYNIAK (Eng.) OIQ #5091337	18-07-2022	
A	28-07-2022	DRAFT FOR COMMENTS	NICOLAS YEDYNIAK (Eng.) OIQ #5091337	29-07-2022	
			DAVID CHOU (P.Eng.) PEO #100517690	29-07-2022	
			MARIA-PIA LONGO (P.Eng.) PEO #100544824	29-07-2022	



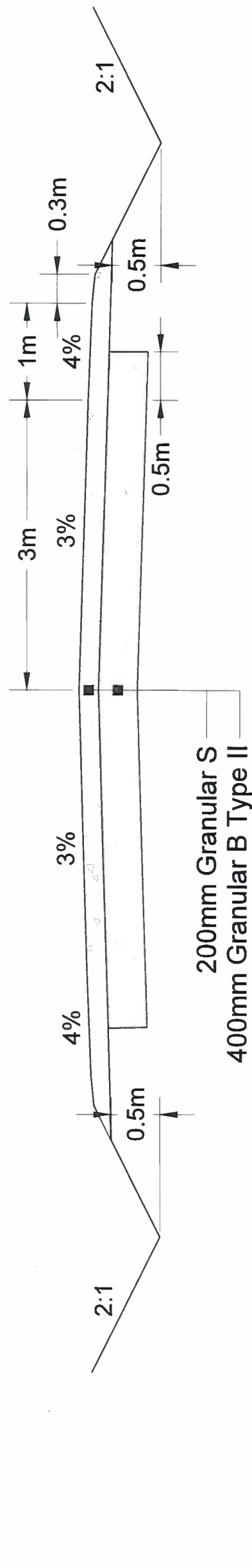
TYPICAL CROSS SECTION - KP 0+234.29 - KP 0+261.33

SCALE 1:50



TYPICAL CROSS SECTION - KP 0+261.33 - KP 0+269.58

SCALE 1:50



LEGEND

- GRANULAR S
- GRANULAR B

REV	DATE	DESCRIPTION	PREPARED BY	DATE	PROJECT	ENG'N	REV
C	22-09-2022	ISSUED FOR CONSTRUCTION	NICOLAS YEDYNAK (Eng.) OIQ #5091337	14-07-2022	DETAILED ENGINEERING FOR ROLLAND MASSIE ROAD MODIFICATIONS	A3	C
B	12-08-2022	DRAFT FOR COMMENTS	NICOLAS YEDYNAK (Eng.) OIQ #5091337	18-07-2022			
A	28-07-2022	DRAFT FOR COMMENTS	DAVID CHOU (P. Eng.) PEO #100517690	29-07-2022	ROAD ALIGNMENT TYPICAL CROSS SECTIONS		
			DAVID CHOU (P. Eng.) PEO #100517690				
			MARIAPIA LONGO (P. Eng.) PEO #100544824	29-07-2022			