

Attachment M

Earthworks Engineering Plans

PROPOSED RESIDENTIAL DEVELOPMENT

81-93 SCHOOL ROAD, LOGAN RESERVE

OPERATIONAL WORKS - CHANGE TO GROUND LEVEL

FOR : LEXEN No.2 PTY LTD



SITE PLAN
SCALE N.T.S
(SOURCED FROM LOGAN CITY COUNCIL)

LEVELS & GRID
LEVELS TO AHD
(AUSTRALIAN HEIGHT DATUM)
GRID ASSUMED LOCAL

DRAWING INDEX	
DWG No.	DESCRIPTION
L17001-BE-0000	COVER SHEET, LOCALITY PLAN & DRAWING INDEX
L17001-BE-0100	TYPICAL DETAILS SHEET
L17001-BE-0200	SEDIMENT & EROSION CONTROL PLAN - SHEET 1 OF 3
L17001-BE-0201	SEDIMENT & EROSION CONTROL PLAN - SHEET 2 OF 3
L17001-BE-0202	SEDIMENT & EROSION CONTROL PLAN - SHEET 3 OF 3
L17001-BE-0203	SEDIMENT & EROSION CONTROL NOTES & DETAILS
L17001-BE-0204	BULK EARTHWORKS PLAN - SHEET 1 OF 3
L17001-BE-0205	BULK EARTHWORKS PLAN - SHEET 2 OF 3
L17001-BE-0206	BULK EARTHWORKS PLAN - SHEET 3 OF 3
L17001-BE-0300	ROAD ALIGNMENT PLAN
L17001-BE-0301	ROAD ALIGNMENT TABLES
L17001-BE-0302	ROAD LONGITUDINAL SECTIONS - SHEET 1 OF 4
L17001-BE-0303	ROAD LONGITUDINAL SECTIONS - SHEET 2 OF 4
L17001-BE-0304	ROAD LONGITUDINAL SECTIONS - SHEET 3 OF 4
L17001-BE-0305	ROAD LONGITUDINAL SECTIONS - SHEET 4 OF 4
L17001-BE-0306	ROAD CROSS SECTIONS - SHEET 1 OF 8
L17001-BE-0307	ROAD CROSS SECTIONS - SHEET 2 OF 8
L17001-BE-0308	ROAD CROSS SECTIONS - SHEET 3 OF 8
L17001-BE-0309	ROAD CROSS SECTIONS - SHEET 4 OF 8
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L17001-BE-0311	ROAD CROSS SECTIONS - SHEET 6 OF 8
L17001-BE-0312	ROAD CROSS SECTIONS - SHEET 7 OF 8
L17001-BE-0313	ROAD CROSS SECTIONS - SHEET 8 OF 8

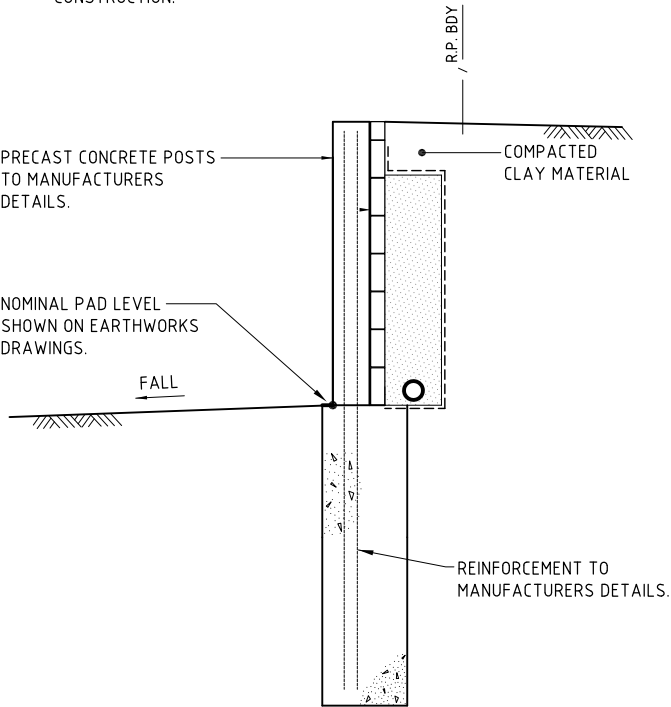
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SCALE @ A1 SIZE: NOT TO SCALE				Level 1, 33 Elkhorn Avenue Surfers Paradise QLD 4217 AUSTRALIA Ph: (07) 5560 7160		PO Box 332 Chevron Island QLD 4217 AUSTRALIA Email: info@lexen.com.au		TASK BY INITIAL DATE APPROVED RPEQ No. 7817	
A ORIGINAL ISSUE				B.T. 17.10.17		DESIGN G.O. 10.10.17		DRAWING NUMBER L17001-BE-0000	
REV DESCRIPTION				DRAWN DATE		DRAWN B.T. 10.10.17		REVISION A	

GENERAL

1. THESE DRAWINGS ARE TO BE READ IN CONJUNCTION WITH THE FOLLOWING DOCUMENTS:
- OTHER PROVIDED ENGINEERING DRAWINGS
 - TECHNICAL SPECIFICATIONS
 - SUPPLEMENTARY SPECIFICATIONS
 - WRITTEN INSTRUCTIONS
2. ALL CONSTRUCTION MATERIALS AND WORKMANSHIP SHALL BE IN ACCORDANCE WITH THE RELEVANT SPECIFICATION FOR THE WORKS TOGETHER WITH THE REQUIREMENTS OF ALL THE RELEVANT CODES OF PRACTICE REFERRED TO THEREIN AND THE REQUIREMENTS OF L.C.C. STANDARDS AND SPECIFICATIONS.
3. THE CONTRACTOR IS RESPONSIBLE FOR THE DESIGN AND PROVISION OF ANY TEMPORARY BRACING, PROPPING ETC. TO DRAINAGE PIPES DURING CONSTRUCTION. STRUCTURES SHALL BE MAINTAINED IN A STABLE POSITION AND NO PART SHALL BE OVERSTRESSED.
4. ALL LOCATIONS, ORIENTATION AND LEVELS SHALL BE VERIFIED ON SITE BEFORE COMMENCING ANY WORK. DISCREPANCIES SHALL BE REFERRED TO THE SITE SUPERINTENDENT.
5. DO NOT OBTAIN DIMENSIONS FROM SCALING.
6. NATURAL SURFACE LEVELS ON THE DRAWINGS ARE INDICATIVE ONLY.
7. ANY PERMITS AND APPROVALS REQUIRED FOR CONSTRUCTION OF PERMANENT OR TEMPORARY WORKS SHALL BE OBTAINED BY THE CONTRACTOR.
8. L.C.C. STANDARD DETAILS ARE TO BE ADOPTED UNLESS STATED OTHERWISE.

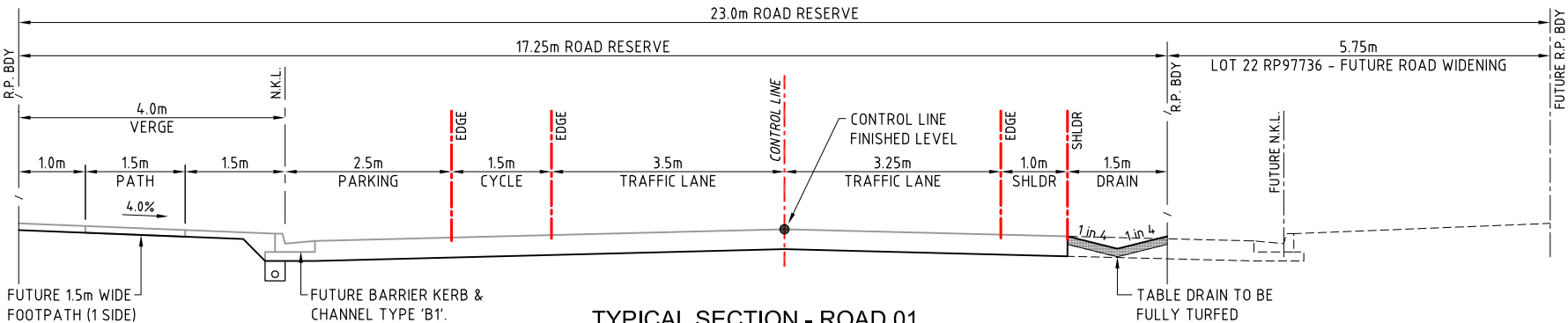
BULK EARTHWORKS

1. ALL EARTHWORKS SHALL BE CARRIED OUT IN ACCORDANCE WITH L.C.C. STANDARD SPECIFICATIONS AND AS3798, UNDER LEVEL 1 SUPERVISION.
2. ALL NEW WORKS TO MATCH NEATLY WITH EXISTING.
3. REFER TO SECTIONS FOR BATTER GRADES WHERE GRADE ARE NOT SPECIFIED:-
FILL - 1:6
CUT - 1:6
4. UNLESS DIRECTED OTHERWISE BY THE SUPERINTENDENT ALL FILL SHALL BE PLACED AT BETWEEN +2% AND -2% OF OPTIMUM MOISTURE CONTENT.
5. AN RPEQ CERTIFIED ENGINEER SHALL INSPECT THE SUBGRADE DURING COMPACTION AND ANY WEAK SPOTS SHALL BE REMOVED AND REPLACED WITH MINIMUM CBR15 MATERIAL.
6. ALL OF THE SITE SHALL BE KEPT FREE DRAINING DURING ALL PHASES OF THE PROJECT.
7. ALL DISTURBED AREAS SHALL BE TOPSOILED (MINIMUM THICKNESS 100mm) AND BE GRASS SEEDDED UNLESS NOTED OTHERWISE.
8. THE CONTRACTOR SHALL CONFIRM LOCATION OF ALL EXISTING SERVICES AND PROTECT THESE SERVICES DURING CONSTRUCTION. DAMAGED SERVICES SHALL BE REPAIRED AT THE CONTRACTORS EXPENSE.
9. NOTWITHSTANDING THE LIMITS AND FILLING SHOWN ON THE CROSS SECTIONS THE ACTUAL LIMITS SHALL BE DETERMINED ON SITE BY THE SUPERINTENDENT DURING CONSTRUCTION AND SIMILARLY THE FINISHED SURFACE CONTOURS MAY BE ADJUSTED BY WRITTEN DIRECTION OF THE SUPERINTENDENT DURING CONSTRUCTION.



PRECAST CONCRETE SLEEPER WALL
TYPICAL SECTION

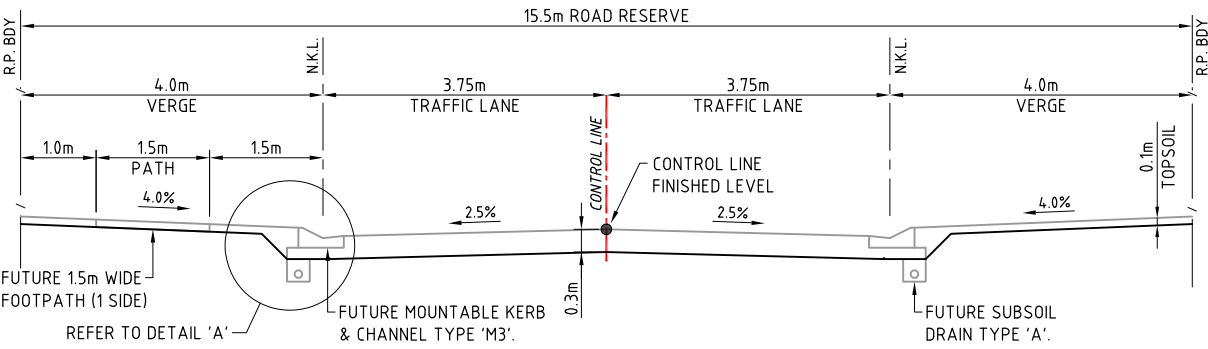
TO MANUFACTURERS SPECIFICATIONS
SCALE 1:20



TYPICAL SECTION - ROAD 01

23.0m URBAN COLLECTOR ROAD (3/4 CONSTRUCTION) - TWO WAY CROSS FALL

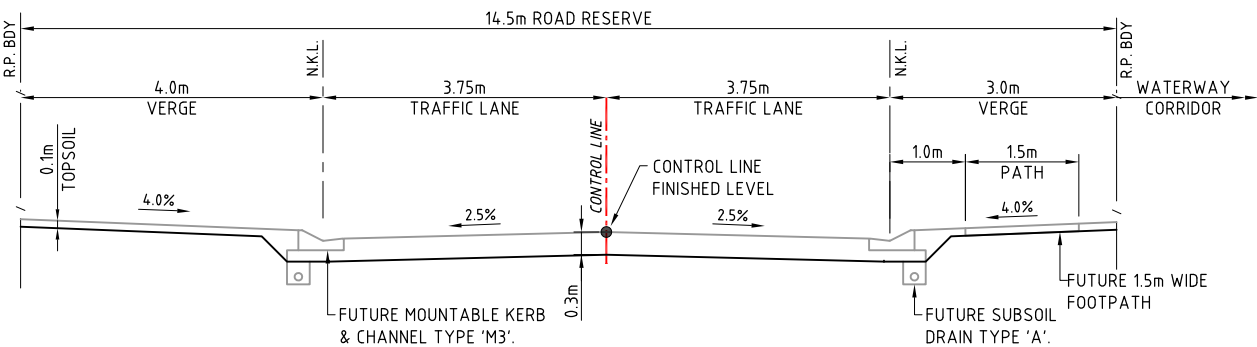
SCALE 1:50



TYPICAL SECTION - ROADS 02 to 04 and ROADS 06 to 08

15.5m URBAN ACCESS STREET - TWO WAY CROSS FALL

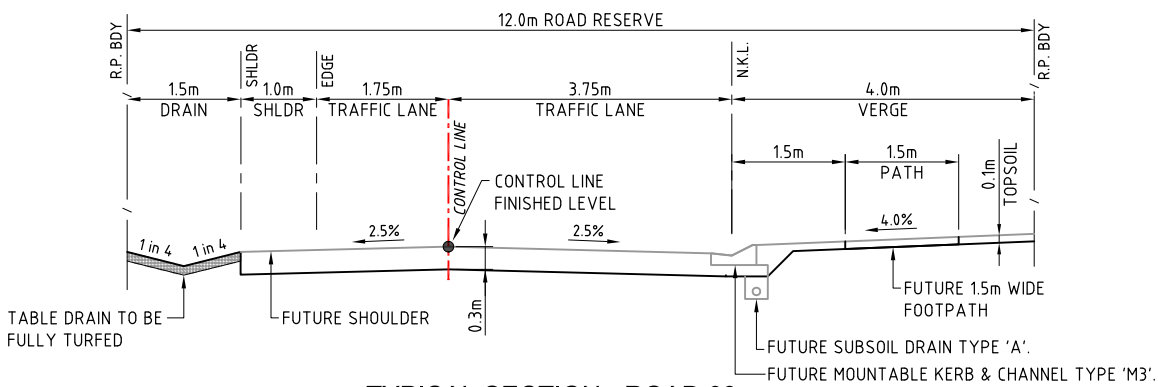
SCALE 1:50



TYPICAL SECTION - ROAD 05

14.5m URBAN ACCESS STREET - TWO WAY CROSS FALL

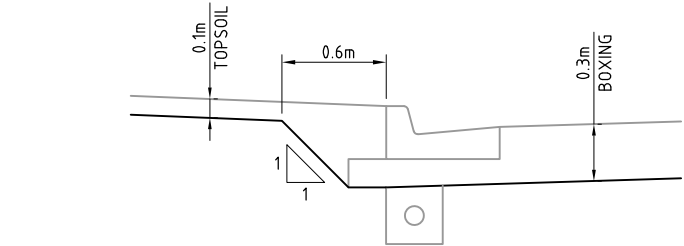
SCALE 1:50



TYPICAL SECTION - ROAD 09

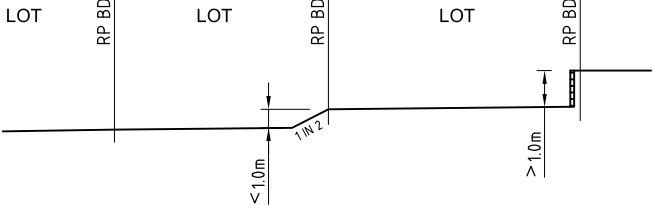
12.0m WIDE URBAN ACCESS STREET - TWO WAY CROSS FALL

SCALE 1:50



BULK EARTHWORKS ROAD BOXING SETOUT

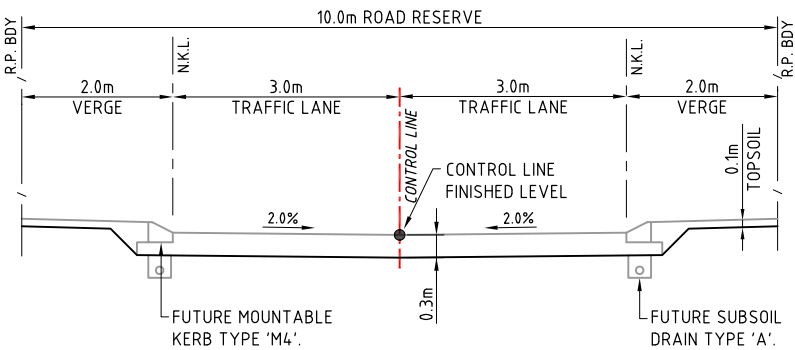
DETAIL A
1:20



RETAINING WALL TREATMENT TO LOTS

SCALE 1:100

- LESS THAN 1000mm LEVEL DIFFERENCE, PROVIDE 1:2 BATTER IN LOWER LOT
- GREATER THAN 1000mm LEVEL DIFFERENCE, PROVIDE RETAINING WALL IN LOWER LOT



TYPICAL SECTION DRIVEWAY (ROAD 10)

10.0m WIDE DRIVEWAY - TWO WAY CROSS FALL

SCALE 1:50

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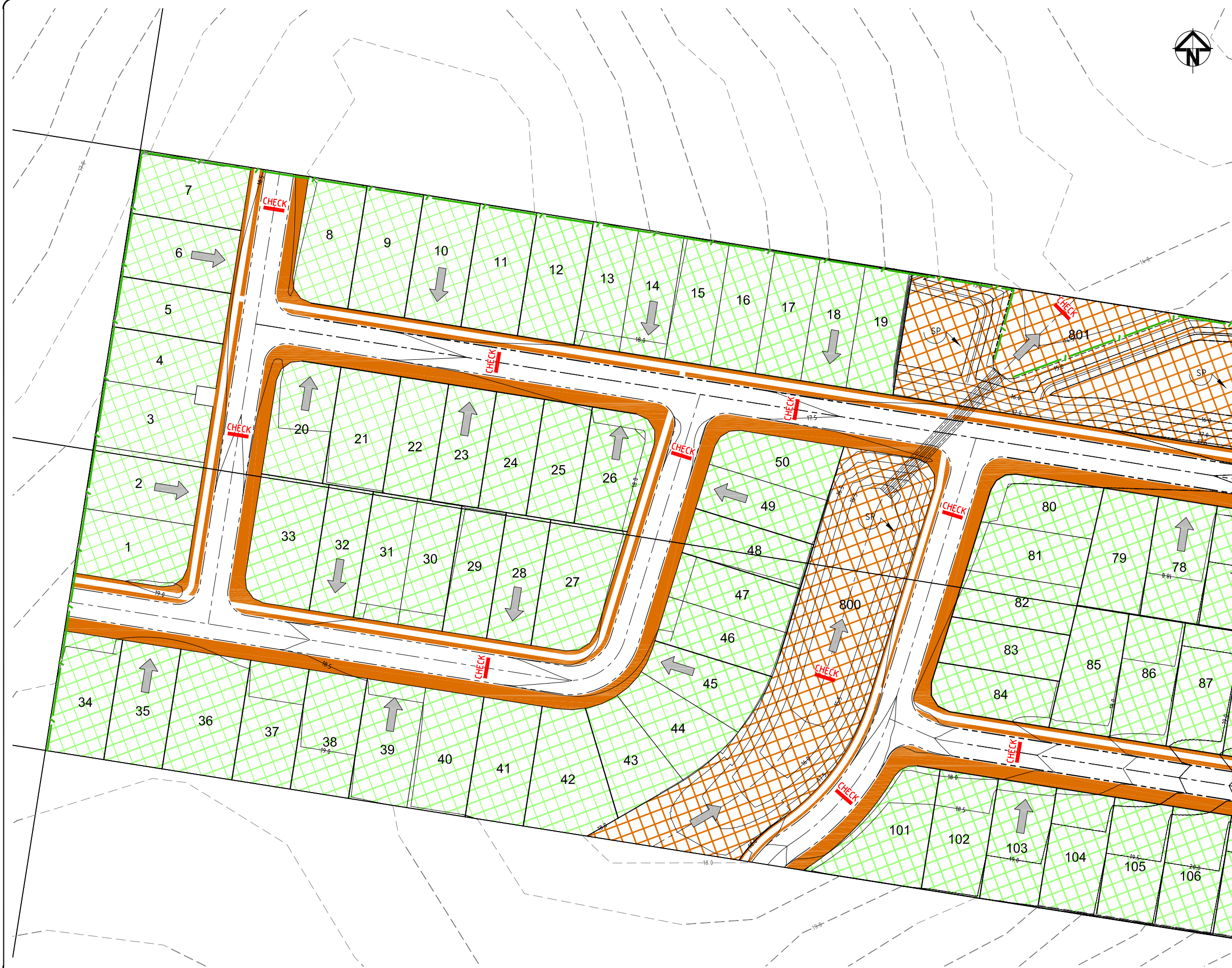
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AUSTRALIA
Ph: (07) 5560 7160

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AUSTRALIA
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PROJECT: 81, 83 & 85 SCHOOL ROAD, LOGAN RESERVE QLD 4133 PROPOSED RESIDENTIAL SUBDIVISION	OPW - CHANGE TO GROUND LEVEL
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TITLE: TYPICAL DETAILS SHEET					
TASK	BY	INITIAL	DATE	APPROVED	RPEQ No. 7817
REVIEW	C.S.		10.10.17		
DESIGN	G.O.		10.10.17		
DRAWN	B.T.		10.10.17		
DRAWING NUMBER L17001-BE-0100					REVISION A



LEGEND

- 5.0 DESIGN CONTOURS (0.25m INTERVAL)
- 5.0 EXISTING CONTOURS (0.25m INTERVAL)
- SILT FENCE
- CHECK SAND BAG CHECK DAM
- VEHICLE SHAKEDOWN
- SP SEDIMENTATION POND
- DIRECTION OF OVERLAND FLOW
- AREAS TOPSOILED & SEED
- AREAS TOPSOILED ONLY (TURF INSTALLED BY LANDSCAPERS)
- AREAS TOPSOILED ONLY (EMBELLISHMENT BY LANDSCAPERS TO LANDSCAPE ARCHITECT DETAILS)

NOTES

FOR EROSION & SEDIMENT CONTROL NOTES & DETAILS REFER TO DWG. No. L17001-BE-0203.



WARNING

BEWARE OF UNDERGROUND SERVICES

The locations of underground services are approximate only and their exact position should be proven on site. No guarantee is given that all existing services are shown. Locate all underground services before commencement of works

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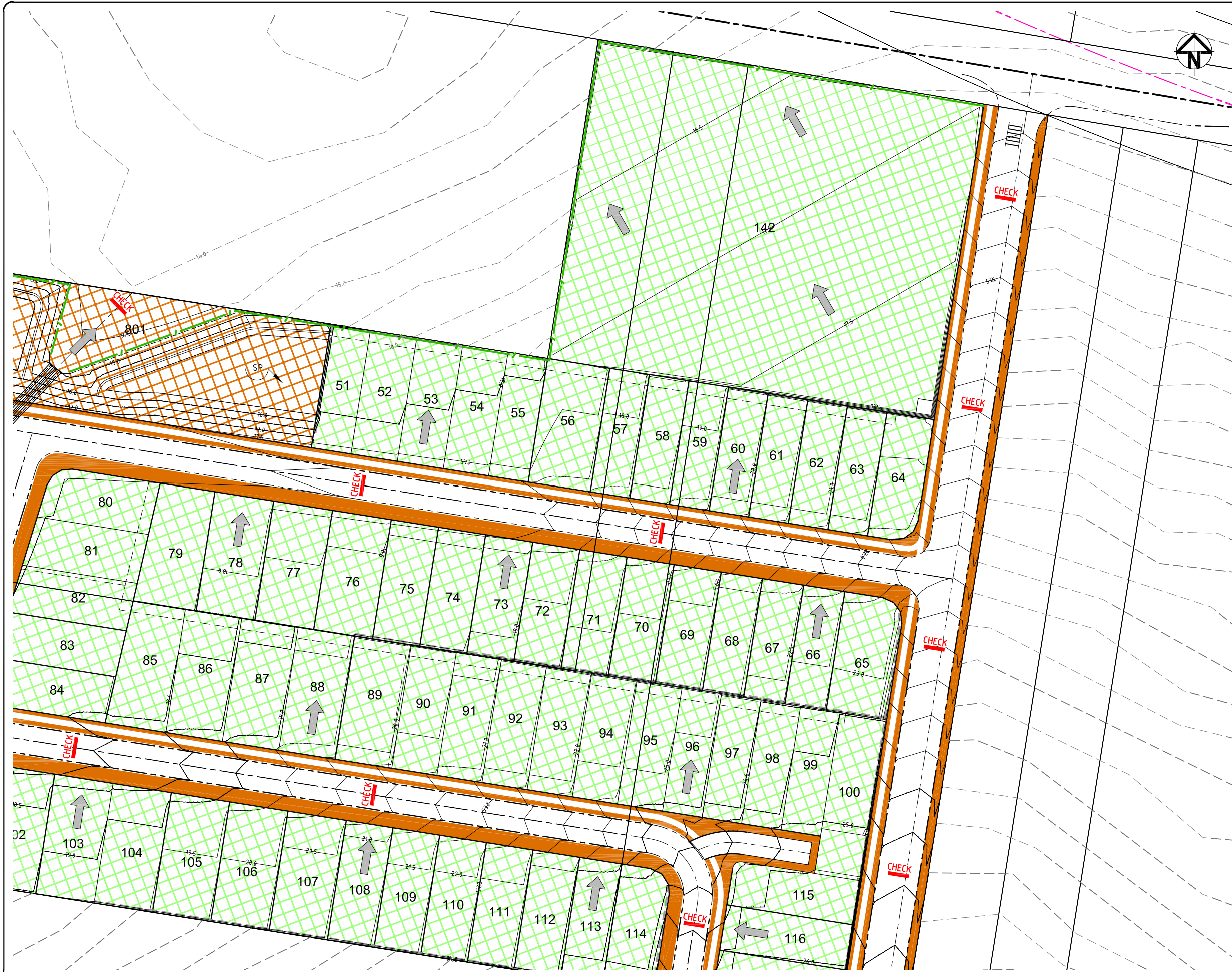
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PROJECT:
81, 83 & 85 SCHOOL ROAD,
LOGAN RESERVE QLD 4133
PROPOSED RESIDENTIAL SUBDIVISION

OPW - CHANGE TO GROUND LEVEL

TITLE:
SEDIMENT & EROSION CONTROL PLAN -
SHEET 1 OF 3

TASK	BY	INITIAL	DATE	APPROVED	RPEQ No.
REVIEW	C.S.		10.10.17		7817
DESIGN	G.O.		10.10.17		
DRAWN	B.T.		10.10.17		
DRAWING NUMBER L17001-BE-0200					REVISION A



LEGEND

5.0

5.0

CHECK

SP

DESIGN CONTOURS (0.25m INTERVAL)

EXISTING CONTOURS (0.25m INTERVAL)

SILT FENCE

SAND BAG CHECK DAM

VEHICLE SHAKEDOWN

SEDIMENTATION POND

DIRECTION OF OVERLAND FLOW

AREAS TOPSOILED & SEEDED

AREAS TOPSOILED ONLY
(TURF INSTALLED BY LANDSCAPERS)

AREAS TOPSOILED ONLY
(EMBELLISHMENT BY LANDSCAPERS
TO LANDSCAPE ARCHITECT DETAILS)

NOTES

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Surfers Paradise QLD 4217
AUSTRALIA
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PO Box 332
Chevron Island QLD 4217
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SEDIMENT & EROSION CONTROL PLAN -
SHEET 2 OF 3

DRAWING NUMBER
L17001-BE-0201

REVISION
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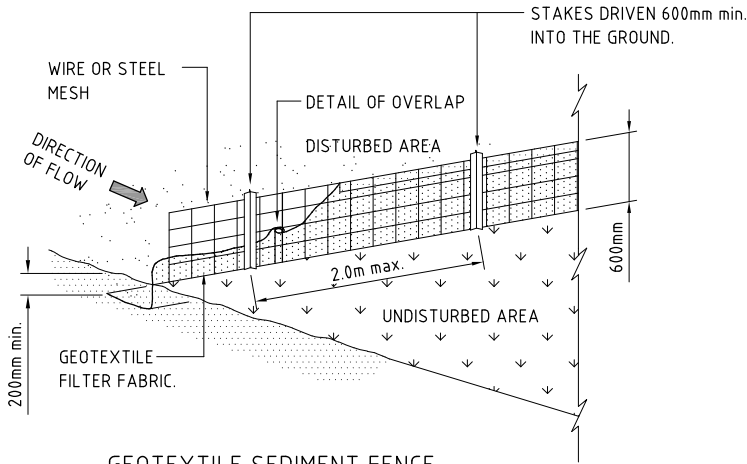
SILT MANAGEMENT PROGRAM

PHASE	DESCRIPTION
ALL WORKS	• SILT FENCES TO BE ERECTED ALONG TOE OF FILL BATTERS OR AS DIRECTED BY SUPERINTENDENT.
SEWER/WATER STORMWATER/SERVICES,	• EXCAVATED MATERIAL TO BE PLACED ON HIGH SIDE OF TRENCH IN ORDER TO PROTECT PIPE WORK AND DIRECT SURFACE FLOW AWAY FROM EXCAVATIONS.
ROADWORKS	• MEASURES ARE TO BE TAKEN TO PREVENT SILT INGRESS TO STORMWATER SYSTEM.
MAINTENANCE PERIOD	• EROSION CONTROL MEASURES ARE TO BE INSPECTED AFTER MAJOR EVENTS (> 25mm). ANY REPAIRS REQUIRED ARE TO BE EFFECTED IMMEDIATELY.

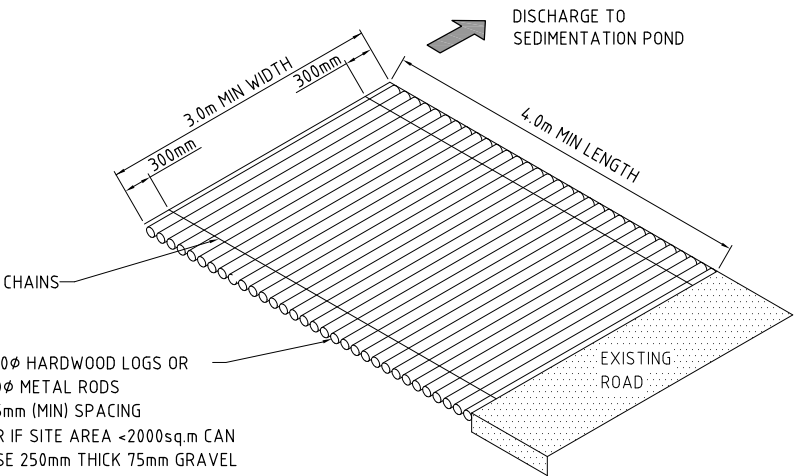
GENERAL NOTES

1. THE CONTRACTOR IS TO TAKE ALL NECESSARY PRECAUTIONS TO CONTROL EROSION AND DOWNSTREAM SEDIMENTATION DURING ALL STAGES OF CONSTRUCTION INCLUDING THE MAINTENANCE PERIOD.
2. ALL SEDIMENT CONTROL DEVICES SHALL BE MONITORED, CLEANED AND/OR REPAIRED WHENEVER THE ACCUMULATED SEDIMENT REDUCES THE CAPACITY BY 50%.
3. ALL PERIMETER BANK/SWALE SHALL HAVE UNINTERRUPTED POSITIVE GRADE TO AN OUTLET.
4. THE EXTENT OF GRASSING SHALL BE DETERMINED BY THE SUPERINTENDENT AND SHALL BE SEED, AS SPECIFIED, WITHIN SEVEN DAYS OF FINAL TRIMMING.
5. EXTENT AND POSITION OF SILT FENCE CONTROL MEASURES TO BE DETERMINED ON SITE BY SUPERINTENDENT. MEASURES SHOWN ON THIS DRAWING ARE MINIMUM REQUIREMENTS ONLY.
6. SCOUR PROTECTION AND SILT MANAGEMENT MEASURES TO BE PROVIDED AT STORMWATER OUTLET HEADWALLS.
7. PROVISION TO BE MADE FOR DIRT/SAND REMOVAL FROM CONSTRUCTION VEHICLES PRIOR TO TRAVEL ON PUBLIC ROADS. METHOD TO BE APPROVED BY SUPERINTENDENT PRIOR TO COMMENCEMENT OF WORK.
8. ANY SILT OR SEDIMENT CAUSED BY THE MOVEMENT OF CONSTRUCTION TRAFFIC ON EXISTING ROADS IS TO BE REMOVED DAILY.
9. THE APPLICANT SHALL IMPLEMENT EROSION AND SEDIMENT CONTROL PROCEDURES DURING CONSTRUCTION AND MAINTENANCE STAGES OF THE DEVELOPMENT AND SHALL TAKE ALL NECESSARY ACTIONS TO COMPLY WITH THE POLICY OBJECTIVES OF THE LOCAL COUNCIL PLANNING POLICY – EROSION AND SEDIMENT CONTROL.
10. THE CONTRACTOR IS TO BE RESPONSIBLE FOR THE DAILY REMOVAL OF SILT FOR THE DURATION OF THE CONSTRUCTION AND MAINTENANCE PERIOD, THAT HAS BEEN BLOWN, WASHED OR TRACKED FROM THE SITE ONTO COUNCIL ROADS OR INTO COUNCIL DRAINAGE SYSTEMS, WATERCOURSES AND ANY PRIVATE PROPERTY.
11. THE CONTRACTOR IS TO BE RESPONSIBLE FOR THE CONTROL OF DUST EMANTING FROM THE SITE AT ALL TIMES, INCLUDING ON WEEKENDS AND PUBLIC HOLIDAYS, FOR THE DURATION OF THE CONSTRUCTION AND MAINTENANCE PERIOD.
12. ALL RUBBISH, WASTE MATERIALS, OILS AND FUELS ARE TO BE CONTAINED APPROPRIATLY. OIL AND FUEL SPILLS ARE NOT TO ENTER ANY DRAINAGE SYSTEM OR WATERCOURSE.
13. THE CONTRACTOR IS TO ENSURE THAT NO SILT REACHES THE DOWNSTREAM WATER COURSE AND IS TO PROVIDE ADEQUATE PROTECTION TO PREVENT THIS OCCURRING.
14. WHERE TOPSOIL STOCKPILES ARE TO REMAIN IN PLACE FOR A PERIOD OF MORE THAN 14 DAYS, THE STOCKPILE SHALL BE GRASSED WITH A SUITABLE QUICK STRIKING CEREAL GRASS. PROVIDE A DIVERSION DRAIN OR BUND ON THE UPHILL SIDE AND A SEDIMENT FENCE ON THE DOWNHILL SIDE OF ALL STOCKPILES.

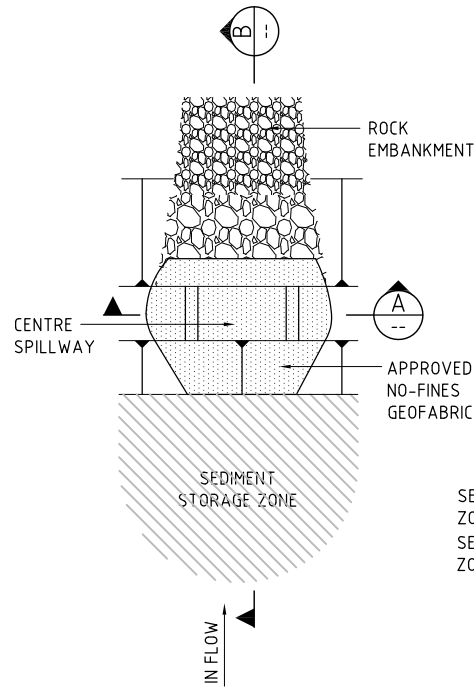
DRAINAGE AREA 0.6ha. MAX. SLOPE GRADIENT 1 : 2 MAX.
SLOPE LENGTH 60m MAX.



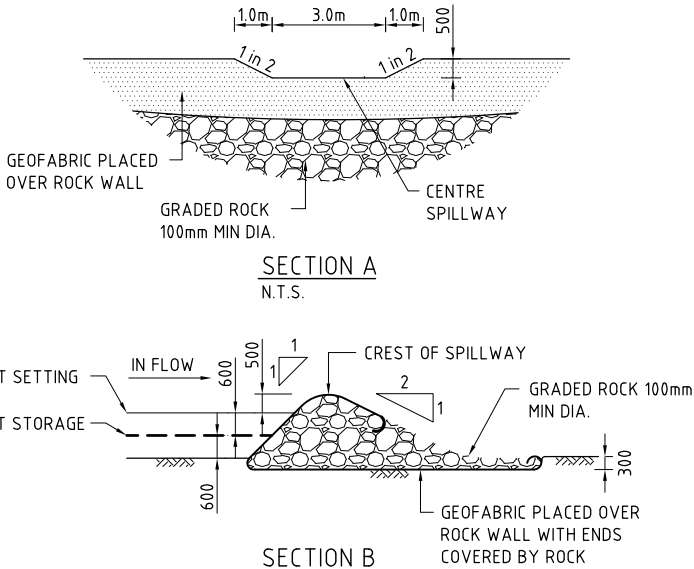
GEOTEXTILE SEDIMENT FENCE
SCALE N.T.S.



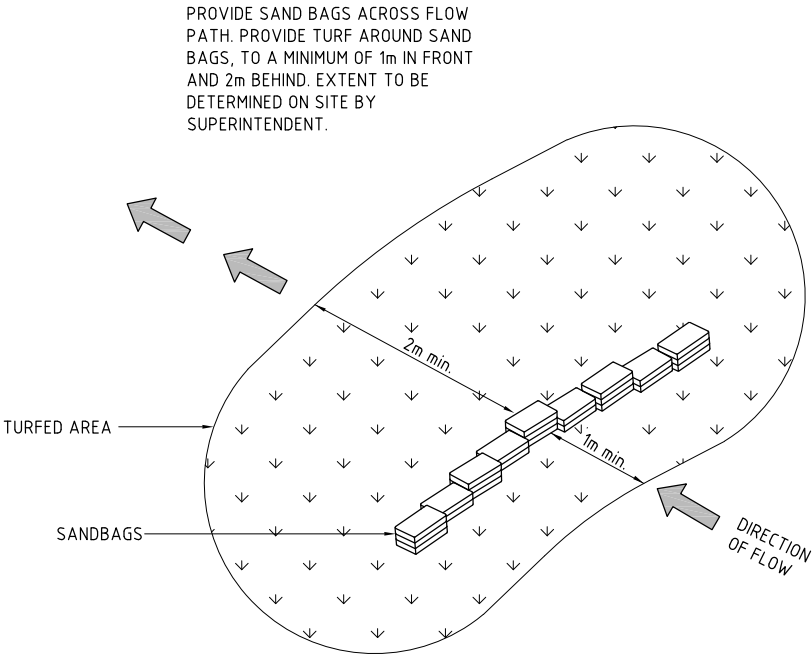
METAL GRID SHAKE DOWN (OR APPROVED EQUIVALENT)
SCALE N.T.S.



SEDIMENT BASIN DETAILS
N.T.S.



SECTION B
N.T.S.



SAND BAG CHECK DAM
SCALE N.T.S.

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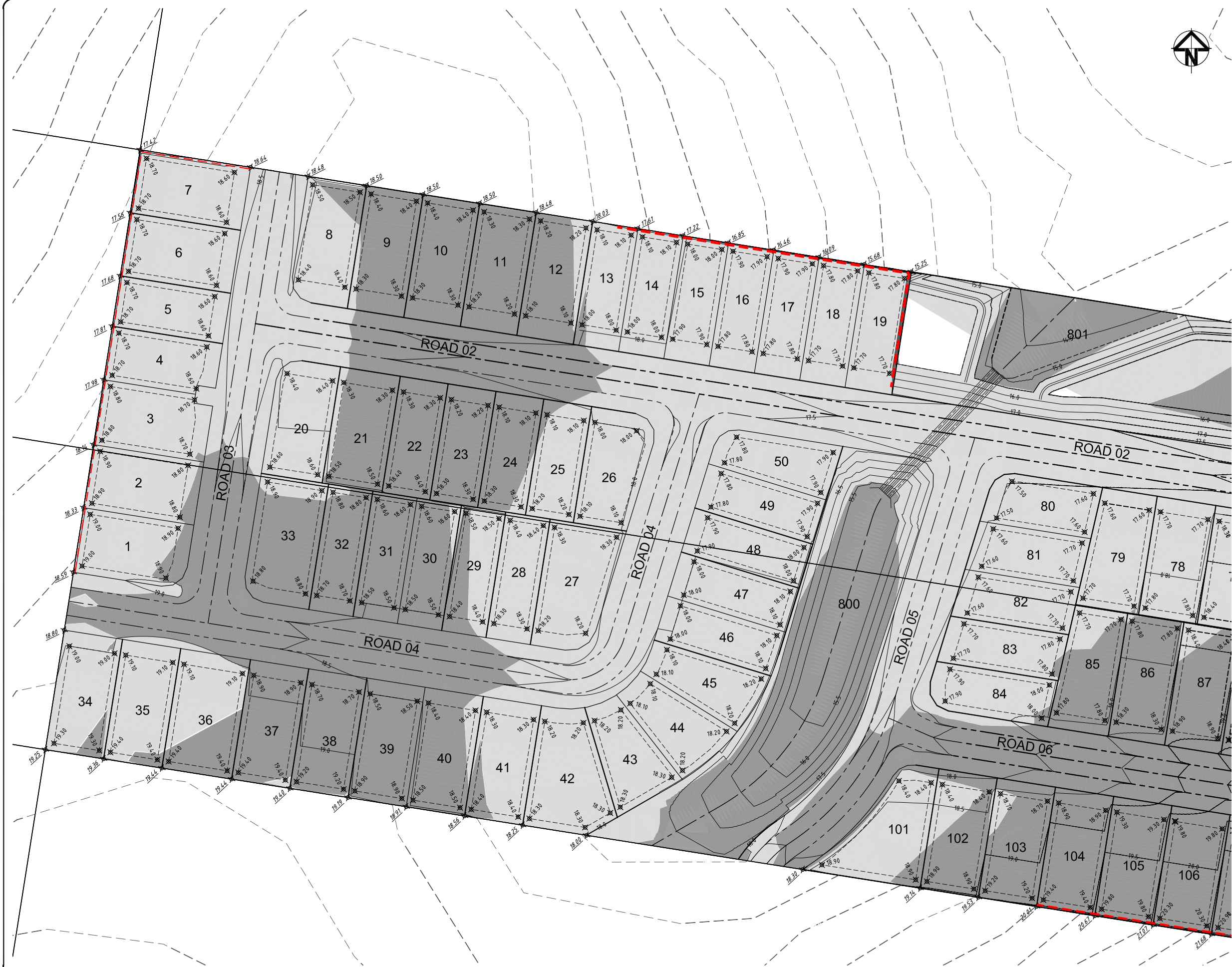
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PROJECT: 81, 83 & 85 SCHOOL ROAD, LOGAN RESERVE QLD 4133 PROPOSED RESIDENTIAL SUBDIVISION
OPW - CHANGE TO GROUND LEVEL

TITLE: SEDIMENT & EROSION CONTROL NOTES & DETAILS					
TASK	BY	INITIAL	DATE	APPROVED	RPEQ No. 7817
REVIEW	C.S.		10.10.17		
DESIGN	G.O.		10.10.17		
DRAWN	B.T.		10.10.17		
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LEGEND

- CUT
- FILL
- 7.0 DESIGN CONTOURS (0.5m INTERVAL)
- 9.0 EXISTING CONTOURS (0.5m INTERVAL)
- CONCRETE SLEEPER RETAINING WALL
- BUILDING ENVELOPE

NOTES

- FOR BULK EARTHWORKS NOTES REFER DWG. No. L17001-BE-0100

BULK EARTHWORKS VOLUMES

35,000m³ CUT TO FILL

VOLUMES HAVE BEEN CALCULATED FROM EARTHWORKS TO EXISTING TINS. NO ALLOWANCE HAS BEEN MADE FOR STRIPPING OF TOPSOIL AND PAVEMENT BOXING.



WARNING

BEWARE OF UNDERGROUND SERVICES

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Chevron Island QLD 4217
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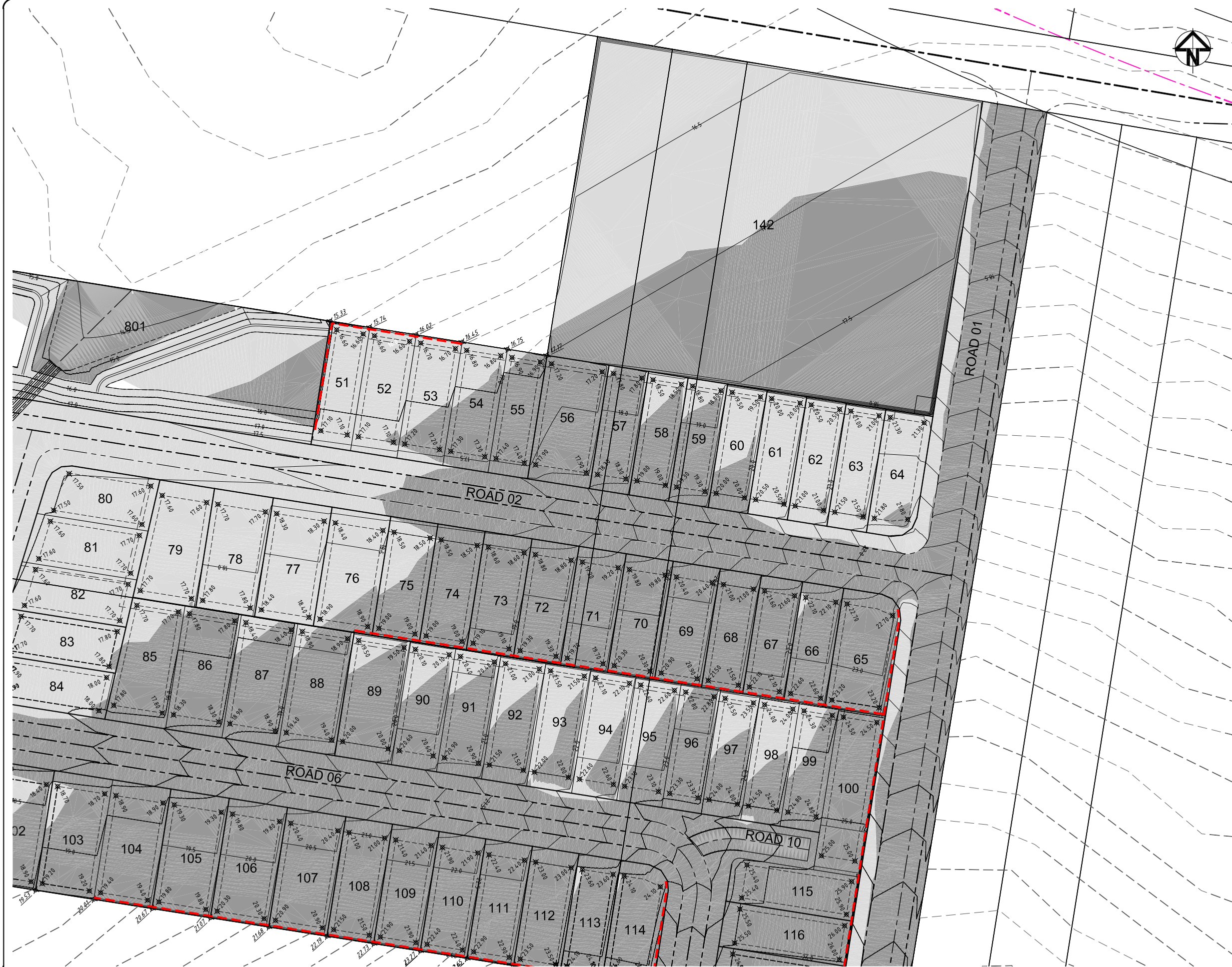
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OPW - CHANGE TO GROUND LEVEL

TITLE:

BULK EARTHWORKS PLAN - SHEET 1 OF 3

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DRAWING NUMBER					REVISION	
L17001-BE-0204					A	



LEGEND

CUT

FILL

7.0

DESIGN CONTOURS (0.5m INTERVAL)

9.0

EXISTING CONTOURS (0.5m INTERVAL)

CONCRETE SLEEPER RETAINING WALL

BUILDING ENVELOPE

NOTES

FOR BULK EARTHWORKS NOTES REFER DWG. No. L17001-BE-0100

BULK EARTHWORKS VOLUMES

35.000m³ CUT TO FILL

VOLUMES HAVE BEEN CALCULATED FROM EARTHWORKS TO EXISTING TINS. NO ALLOWANCE HAS BEEN MADE FOR STRIPPING OF TOPSOIL AND PAVEMENT BOXING.



WARNING

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AUSTRALIA
Email: info@lexen.com.au

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PROPOSED RESIDENTIAL SUBDIVISION

OPW - CHANGE TO GROUND LEVEL

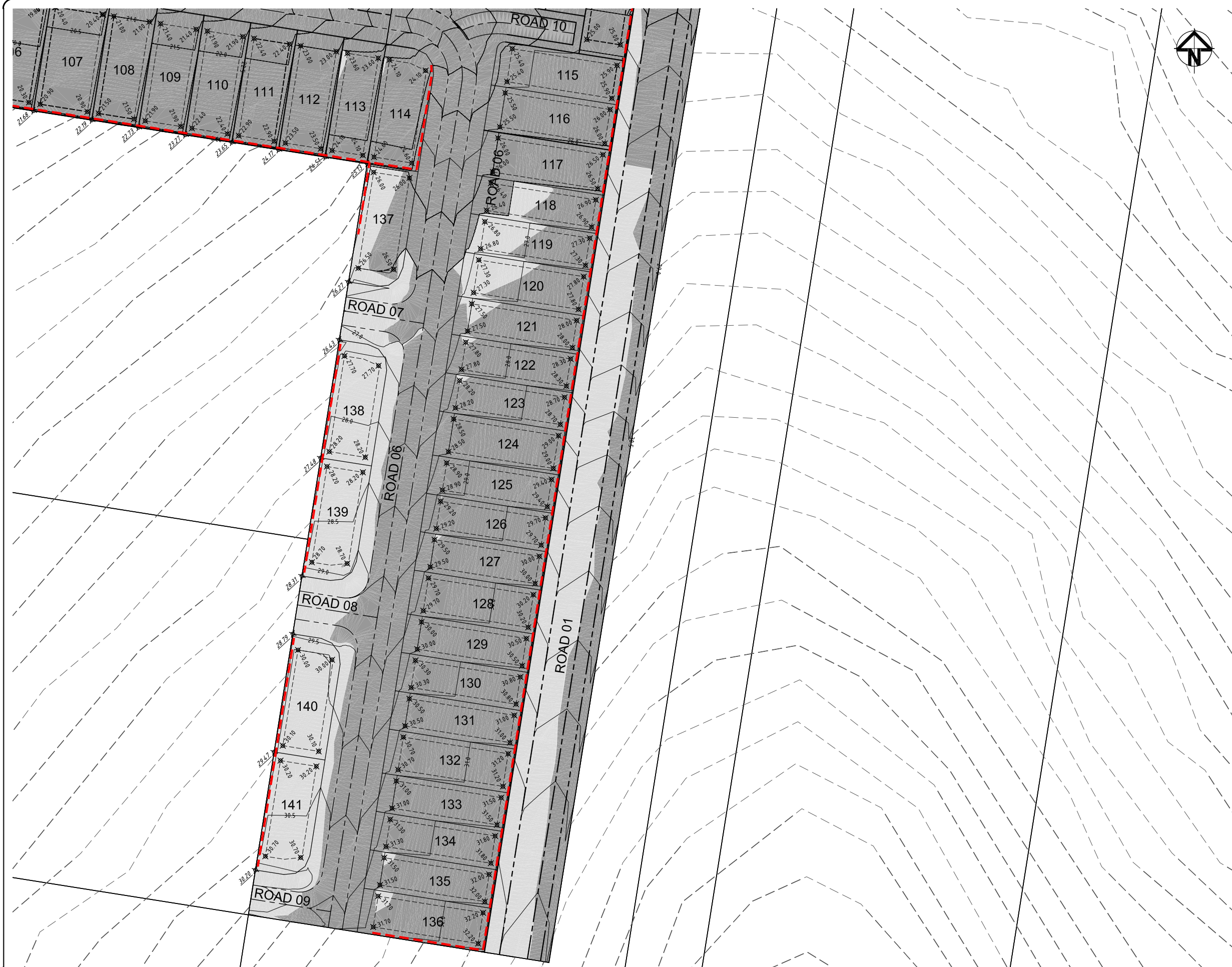
TITLE:

BULK EARTHWORKS PLAN - SHEET 2 OF 3

TASK	BY	INITIAL	DATE	APPROVED	RPEQ No.
REVIEW	C.S.		10.10.17		7817
DESIGN	G.O.		10.10.17		
DRAWN	B.T.		10.10.17		

DRAWING NUMBER L17001-BE-0205

REVISION A



LEGEND

CUT

FILL

7.0

9.0

NOTES

FOR BULK EARTHWORKS NOTES REFER DWG. No. L17001-BE-0100

BULK EARTHWORKS VOLUMES

35,000m³ CUT TO FILL

VOLUMES HAVE BEEN CALCULATED FROM EARTHWORKS TO EXISTING TINS. NO ALLOWANCE HAS BEEN MADE FOR STRIPPING OF TOPSOIL AND PAVEMENT BOXING.



WARNING

BEWARE OF UNDERGROUND SERVICES

The locations of underground services are approximate only and their exact position should be proven on site. No guarantee is given that all existing services are shown. Locate all underground services before commencement of works

DIAL 1100 BEFORE YOU DIG

www.1100.com.au

REV	DESCRIPTION	DRAWN	DATE
A	ORIGINAL ISSUE	B.T.	17.10.17

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SCALE @ A1 SIZE:

SCALE 10 0 10 20 1500

CLIENT:

LEXEN No.2 PTY LTD

LEXEN

Level 1, 33 Elkhorn Avenue
Surfers Paradise QLD 4217
AUSTRALIA
Ph: (07) 5560 7160

PO Box 332
Chevron Island QLD 4217
AUSTRALIA
Email: info@lexen.com.au

PROJECT:

81, 83 & 85 SCHOOL ROAD,
LOGAN RESERVE QLD 4133
PROPOSED RESIDENTIAL SUBDIVISION

OPW - CHANGE TO GROUND LEVEL

TITLE:

BULK EARTHWORKS PLAN - SHEET 3 OF 3

TASK	BY	INITIAL	DATE	APPROVED	RPEQ No.
REVIEW	C.S.		10.10.17		7817
DESIGN	G.O.		10.10.17		
DRAWN	B.T.		10.10.17		

DRAWING NUMBER L17001-BE-0206

REVISION A



LEGEND

ROAD CENTRE LINE

WATERWAY CENTRE LINE

NOTES

FOR ROAD ALIGNMENT TABLES REFER TO DWG No. L17001-BE-0301.

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						SCALE @ A1 SIZE: SCALE 10 0 10 20 30 40 50 1:1000						APPROVED 		RPEQ No. 7817	
A		ORIGINAL ISSUE		B.T.		17.10.17						REVIEW C.S.		10.10.17	
DESIGN		G.O.				10.10.17						DRAWING NUMBER		REVISION	
REV		DESCRIPTION		DRAWN		DATE						L17001-BE-0300		A	

CONTROL LINE "ROAD 01"					
PT	Chainage	Easting	Northing	Height	Bearing
IP 1	0.000	510109.012	6934659.243	16.200	188°59'29.39"
	20.000	510105.886	6934639.488	17.223	188°59'29.39"
	40.000	510102.761	6934619.734	18.260	188°59'29.39"
	60.000	510099.635	6934599.980	19.347	188°59'29.39"
	80.000	510096.509	6934580.226	20.473	188°59'29.39"
	100.000	510093.383	6934560.472	21.602	188°59'29.39"
	120.000	510090.258	6934540.717	22.730	188°59'29.39"
	140.000	510087.132	6934520.963	23.848	188°59'29.39"
	160.000	510084.006	6934501.209	24.917	188°59'29.39"
	180.000	510080.880	6934481.455	25.944	188°59'29.39"
	200.000	510077.755	6934461.700	26.760	188°59'29.39"
	220.000	510074.629	6934441.946	27.405	188°59'29.39"
	240.000	510071.503	6934422.192	27.975	188°59'29.39"
	260.000	510068.377	6934402.438	28.578	188°59'29.39"
	280.000	510065.252	6934382.683	29.235	188°59'29.39"
	300.000	510062.126	6934362.929	30.012	188°59'29.39"
	320.000	510059.000	6934343.175	30.829	188°59'29.39"
	340.000	510055.874	6934323.421	31.435	188°59'29.39"
	360.000	510052.749	6934303.667	31.976	188°59'29.39"
	380.000	510049.623	6934283.912	32.517	188°59'29.39"
	400.000	510046.497	6934264.158	33.029	188°59'29.39"
	420.000	510043.371	6934244.404	33.382	188°59'29.39"
	440.000	510040.246	6934224.650	33.662	188°59'29.39"
IP 2	446.307	510039.260	6934218.420	33.750	188°59'29.39"

CONTROL LINE "ROAD 02"					
PT	Chainage	Easting	Northing	Height	Bearing
IP 1	0.000	510089.451	6934535.618		279°00'00.00"
	20.000	510069.697	6934538.747	22.271	279°00'00.00"
	40.000	510049.943	6934541.876	21.271	279°00'00.00"
	60.000	510030.190	6934545.004	20.271	279°00'00.00"
	80.000	510010.436	6934548.133	19.271	279°00'00.00"
	100.000	509990.682	6934551.262	18.308	279°00'00.00"
	120.000	509970.928	6934554.391	17.821	279°00'00.00"
	140.000	509951.174	6934557.519	17.714	279°00'00.00"
	160.000	509931.421	6934560.648	17.614	279°00'00.00"
	180.000	509911.667	6934563.777	17.514	279°00'00.00"
	200.000	509891.913	6934566.905	17.414	279°00'00.00"
	220.000	509872.159	6934570.034	17.315	279°00'00.00"
	240.000	509852.406	6934573.163	17.296	279°00'00.00"
	260.000	509832.652	6934576.291	17.386	279°00'00.00"
	280.000	509812.898	6934579.420	17.486	279°00'00.00"
	300.000	509793.144	6934582.549	17.586	279°00'00.00"
	320.000	509773.391	6934585.677	17.686	279°00'00.00"
	340.000	509753.637	6934588.806	17.786	279°00'00.00"
	360.000	509733.883	6934591.935	17.886	279°00'00.00"
	380.000	509714.129	6934595.063	17.986	279°00'00.00"
	400.000	509694.375	6934598.192	18.086	279°00'00.00"
	420.000	509674.622	6934601.321	18.186	279°00'00.00"
IP 2	439.506	509655.356	6934604.372	18.391	279°00'00.00"

CONTROL LINE "WATERWAY A"					
PT	Chainage	Easting	Northing	Height	Bearing
IP 1	0.000	509853.534	6934592.422	14.700	45°11'34.27"
	10.000	509860.629	6934599.469	14.470	45°11'34.27"
	20.000	509867.724	6934606.516	14.240	45°11'34.27"
IP 2	26.533	509872.359	6934611.120	14.090	45°11'34.27"

CONTROL LINE "ROAD 03"					
PT	Chainage	Easting	Northing	Height	Bearing
IP 1	0.000	509642.788	6934525.018		9°00'00.00"
	20.000	509645.916	6934544.772	18.680	9°00'00.00"
	40.000	509649.045	6934564.525	18.580	9°00'00.00"
	60.000	509652.174	6934584.279	18.480	9°00'00.00"
	80.000	509655.302	6934604.033	18.392	9°00'00.00"
	100.000	509658.431	6934623.787	18.393	9°00'00.00"
	120.000	509661.560	6934643.540	18.488	9°00'00.00"
IP 2	121.051	509661.724	6934644.579	18.494	9°00'00.00"

CONTROL LINE "ROAD 07"					
PT	Chainage	Easting	Northing	Height	Bearing
IP 1	0.000	510011.857	6934386.415	26.967	278°59'22.79"
	20.000	509992.102	6934389.540	26.987	278°59'22.79"
IP 2	21.362	509990.757	6934389.753	27.007	278°59'22.79"

CONTROL LINE "ROAD 08"					
PT	Chainage	Easting	Northing	Height	Bearing
IP 1	0.000	509999.554	6934308.683	29.268	278°59'22.79"
	20.000	509979.799	6934311.808	29.248	278°59'22.79"
IP 2	21.356	509978.460	6934312.020	29.268	278°59'22.79"

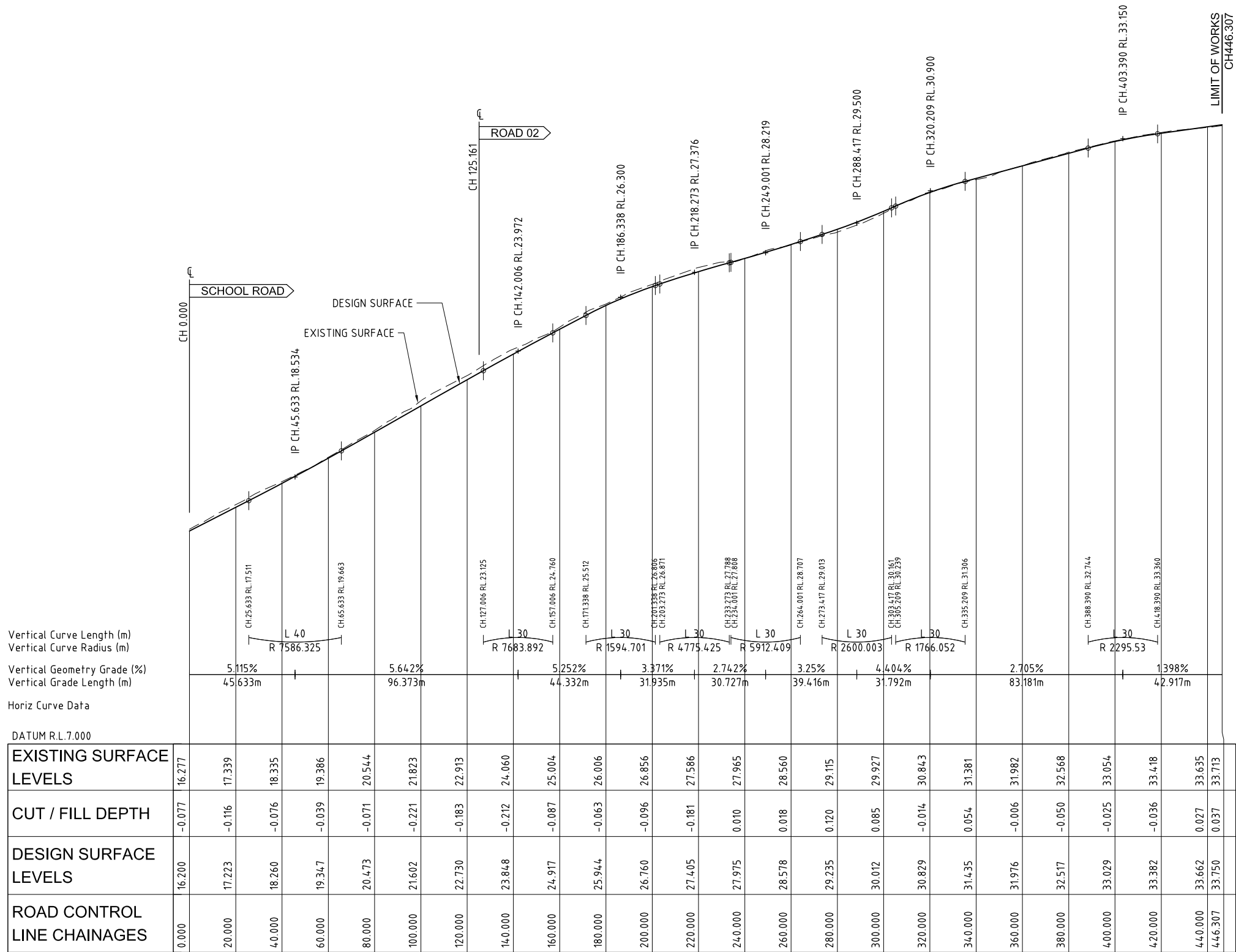
CONTROL LINE "ROAD 09"					
PT	Chainage	Easting	Northing	Height	Bearing
IP 1	0.000	509987.251	6934230.950	31.101	278°59'22.79"
	20.000	509967.496	6934234.075	31.121	278°59'22.79"
IP 2	21.350	509966.163	6934234.286	31.141	278°59'22.79"

CONTROL LINE "WATERWAY B"								
PT	Chainage	Easting	Northing	Height	Bearing	Radius	A Length	Def Angle
IP 1	0.000	509760.393	6934466.105	17.878	60°00'45.36"			
	10.000	509769.055	6934471.103	17.378	60°00'45.36"			
	20.000	509777.716	6934476.102	16.878	60°00'45.36"			
TC	20.936	509778.527	6934476.569	16.832	60°00'45.36"			
	30.000	509786.006	6934481.674	16.378	51°21'25.11"			
	40.000	509793.261	6934488.539	15.925	41°48'27.65"			
IP 2	43.399	509798.946	6934488.352	15.796		R = -60.000	44.926	42°54'05.42"
	50.000	509799.277	6934496.513	15.583	32°15'30.18"			
	60.000	509803.887	6934505.374	15.354	22°42'32.71"			
CT	65.862	509805.882	6934510.884	15.271	17°06'39.94"			
	70.000	509807.100	6934516.839	15.237	17°06'39.94"			
	80.000	509810.042	6934524.396	15.186	17°06'39.94"			
	90.000	509812.984	6934533.953	15.136	17°06'39.94"			
	100.000	509815.926	6934543.511	15.086	17°06'39.94"			
	110.000	509818.869	6934553.068	15.036	17°06'39.94"			
TC	110.053	509818.884	6934553.119	15.036	17°06'39.94"			
	IP 3	113.654	509819.955	6934556.598	15.018	R = 20.000	7.202	20°37'58.73"
IP 4	117.255	509822.184	6934559.477	15.000	37°44'38.67"			

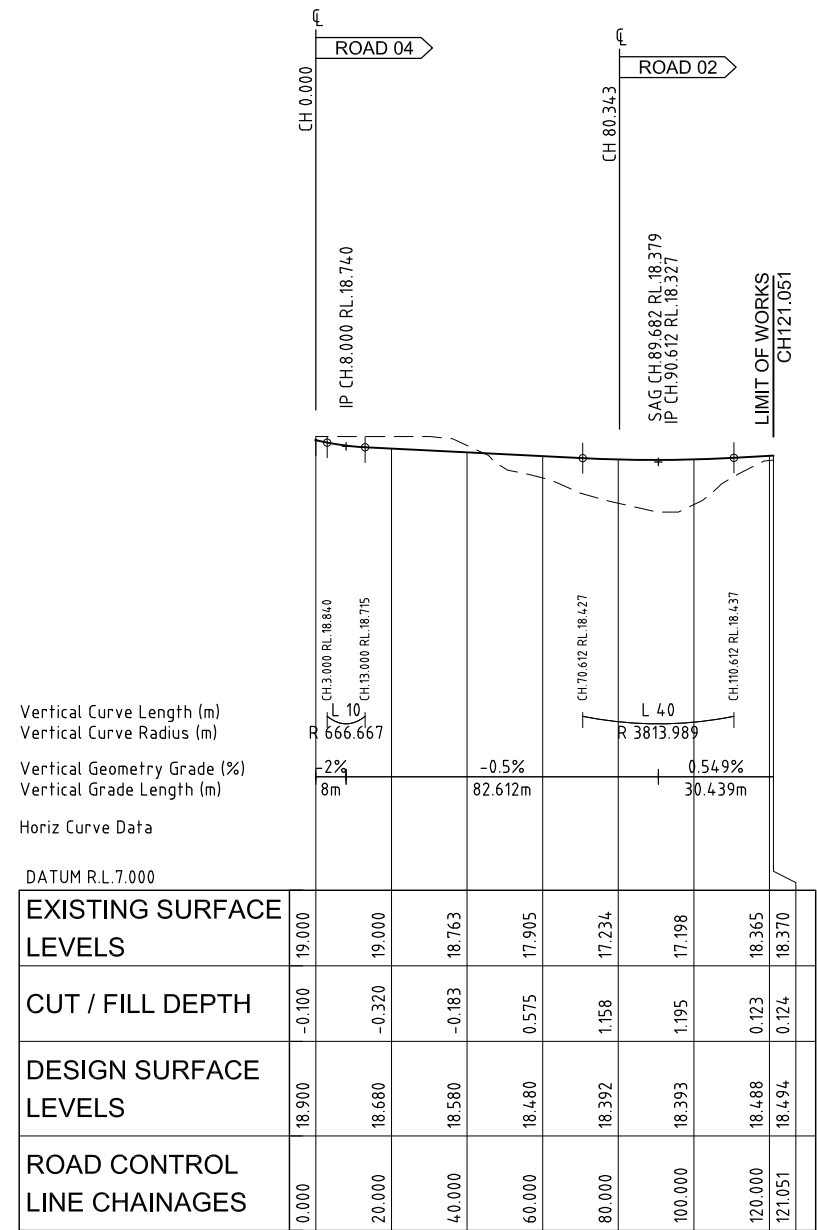
CONTROL LINE "ROAD 04"								
PT	Chainage	Easting	Northing	Height	Bearing	Radius	A Length	Def Angle
IP 1	0.000	509772.995	6934585.740	17.688	197°06'39.94"			
	20.000	509767.110	6934566.625	17.600	197°06'39.94"			
	40.000	509761.226	6934547.511	17.720	197°06'39.94"			
	60.000	509755.341	6934528.396	17.840	197°06'39.94"			
TC	68.123	509752.951	6934520.632	17.888	197°06'39.94"			
	IP 2	78.841	509749.123	6934508.197	17.953	R = 15.000	21.436	81°52'40.20"
	80.000	509745.546	6934511.743	17.960	242°28'39.16"			
CT	89.559	509736.271	6934510.230	18.017	278°59'20.14"			
	100.000	509725.958	6934511.861	18.080	278°59'20.14"			
	120.000	509706.204	6934516.986	18.200	278°59'20.14"			
	140.000	509686.450	6934518.111	18.323	278°59'20.14"			
	160.000	509666.695	6934521.236	18.542	278°59'20.14"			
	180.000	509646.941	6934524.361	18.855	278°59'20.14"			
	200.000	509627.186	6934527.486	18.924	278°59'20.14"			
	220.000	509607.432	6934530.611	18.717	278°59'20.14"			
IP 3	221.534	509605.917	6934530.850	18.700	278°59'20.14"			

CONTROL LINE "ROAD 05"								
PT	Chainage	Easting	Northing	Height	Bearing	Radius	A Length	Def Angle
IP 1	0.000	509846.030	6934574.172	17.318	197°06'39.94"			
	20.000	509840.146	6934555.058	17.243	197°06'39.94"			
	40.000	509834.261	6934535.943	17.343	197°06'39.94"			
	60.000	509828.377	6934516.828	17.443	197°06'39.94"			
TC	74.470	509824.119	6934502.999	17.516	197°06'39.94"			
	80.000	509822.275	6934497.787	17.543	201°51'29.17"			
IP 2	97.369	509817.105	6934480.212	17.630		R = 66.750	45.799	39°18'42.44"
	100.000	509812.180	6934480.608	17.646	219°01'31.36"			
	120.000	509797.464	6934467.175	17.957	236°11'33.55"			
CC	120.268	509797.241	6934467.026	17.963	236°25'22.38"			
	IP 3	124.584	509793.620	6934464.623	18.075	R = -30.000	8.632	16°29'07.14"
IP 4	128.900	509790.830	6934461.291	18.200	219°56'15.25"			

CONTROL LINE "ROAD 06"								
PT	Chainage	Easting	Northing	Height	Bearing	Radius	A Length	Def Angle
IP 1	0.000	509823.089	6934499.922	17.532	113°30'39.36"			
TC	11.755	509833.869	6934495.232	17.478	113°30'39.36"			
IP 2	13.655	509835.620	6934494.470	17.512		R = -15.000	3.799	14°30'39.36"
CT	15.554	509837.506	6934494.172	17.547	99°00'00.00"			
	20.000	50984.1897	6934493.476	17.628	99°00'00.00"			
	40.000	509861.651	6934490.347	17.990	99°00'00.00"			
	60.000	509881.405	6934487.219	18.403	99°00'00.00"			
	80.000	509901.159	6934484.090	19.051	99°00'00.00"			
	100.000	509920.912	6934480.961	19.799	99°00'00.00"			
	120.000	509940.666	6934477.833	20.546	99°00'00.00"			
	140.000	509960.420	6934474.704	21.310	99°00'00.00"			
	160.000	509980.174	6934471.575	22.192	99°00'00.00"			
	180.000	509999.927	6934468.447	23.148	99°00'00.00"			
TC	189.608	510009.417	6934466.944	23.607	99°00'00.00"			
	200.000	510018.339	6934462.029	24.103	138°41'37.95"			
IP 3	201.388	510024.231	6934464.597	24.168		R = 15.000	23.560	89°59'37.79"
CT	213.168	510021886	6934449.783	24.700	188°59'37.79"			
	220.000	510020.818	6934443.036	24.989	188°59'37.79"			
	240.000	510017.692	6934423.282	25.751	188°59'37.79"			
	260.000	510014.565	6934403.528	26.408	188°59'37.79"			
	280.000	510011.439	6934383.773	27.053	188°59'37.79"			
	300.000	510008.312	6934364.019	27.698	188°59'37.79"			
	320.000	510005.186	6934344.265	28.322	188°59'37.79"			
	340.000	510002.059	6934324.511	28.875	188°59'37.79"			
	360.000	509998.932	6934304.757	29.360	188°59'37.79"			
	380.000	509995.806	6934285.003	29.826	188°59'37.79"			
	400.000	509992.679	6934265.249	30.292	188°59'37.79"			
	420.000	509989.553	6934245.495	30.758	188°59'37.79"			
IP 4	438.977	509986.586	6934226.751	31.200	188°59'37.79"			



ROAD 01 LONGITUDINAL SECTION



ROAD 03 LONGITUDINAL SECTION

REV	DESCRIPTION	DRAWN	DATE
A	ORIGINAL ISSUE	B.T.	17.10.17

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SCALE @ A1 SIZE:

HORIZ 1:1000

VERT 1:100

CLIENT:
LEXEN No.2 PTY LTD

LEXEN

Level 1, 33 Elkhorn Avenue
Surfers Paradise QLD 4217
AUSTRALIA
Ph: (07) 5560 7160

PO Box 332
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PROJECT:
81, 83 & 85 SCHOOL ROAD,
LOGAN RESERVE QLD 4133
PROPOSED RESIDENTIAL SUBDIVISION

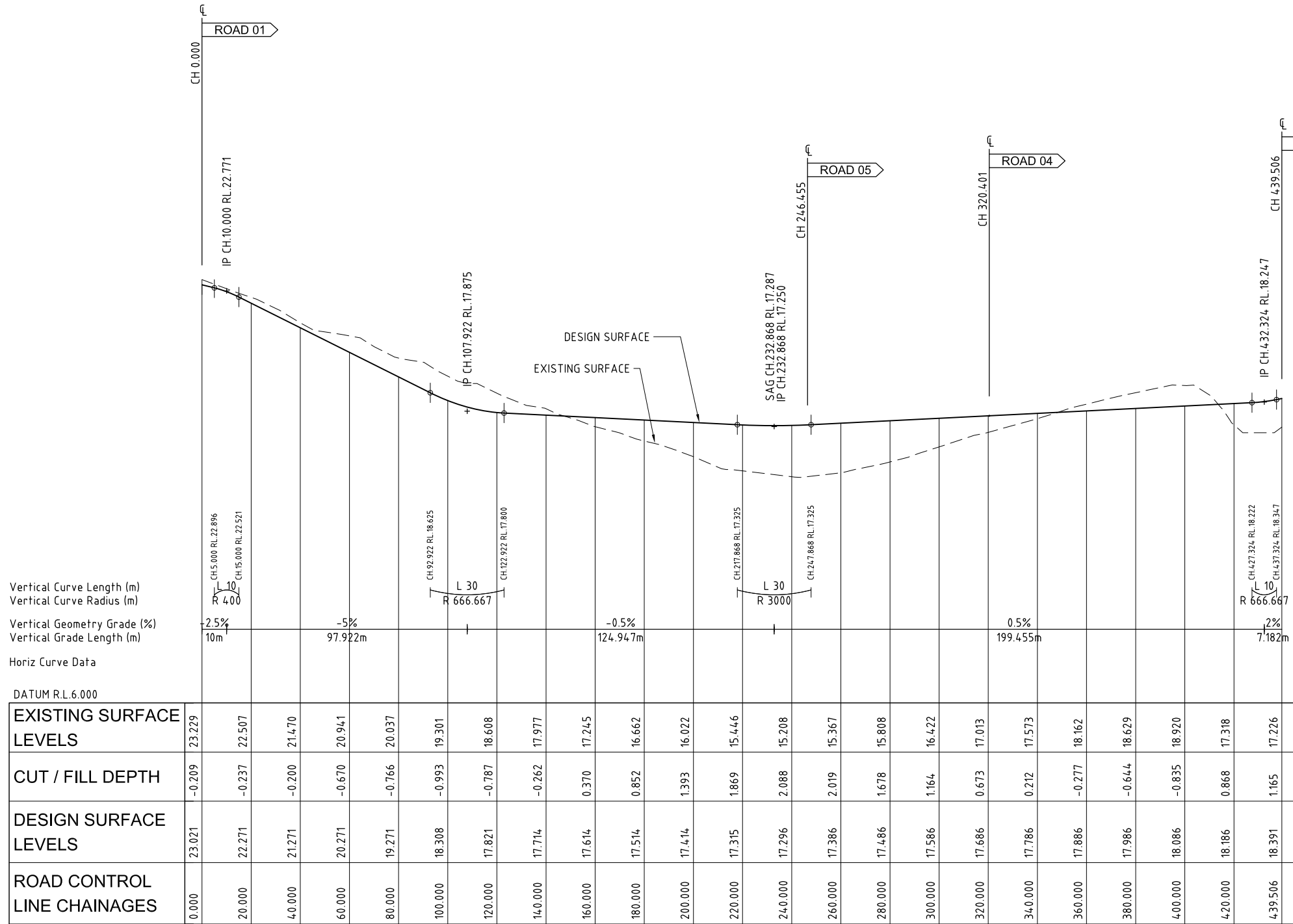
OPW - CHANGE TO GROUND LEVEL

TITLE:
ROAD LONGITUDINAL SECTIONS - SHEET 1
OF 4

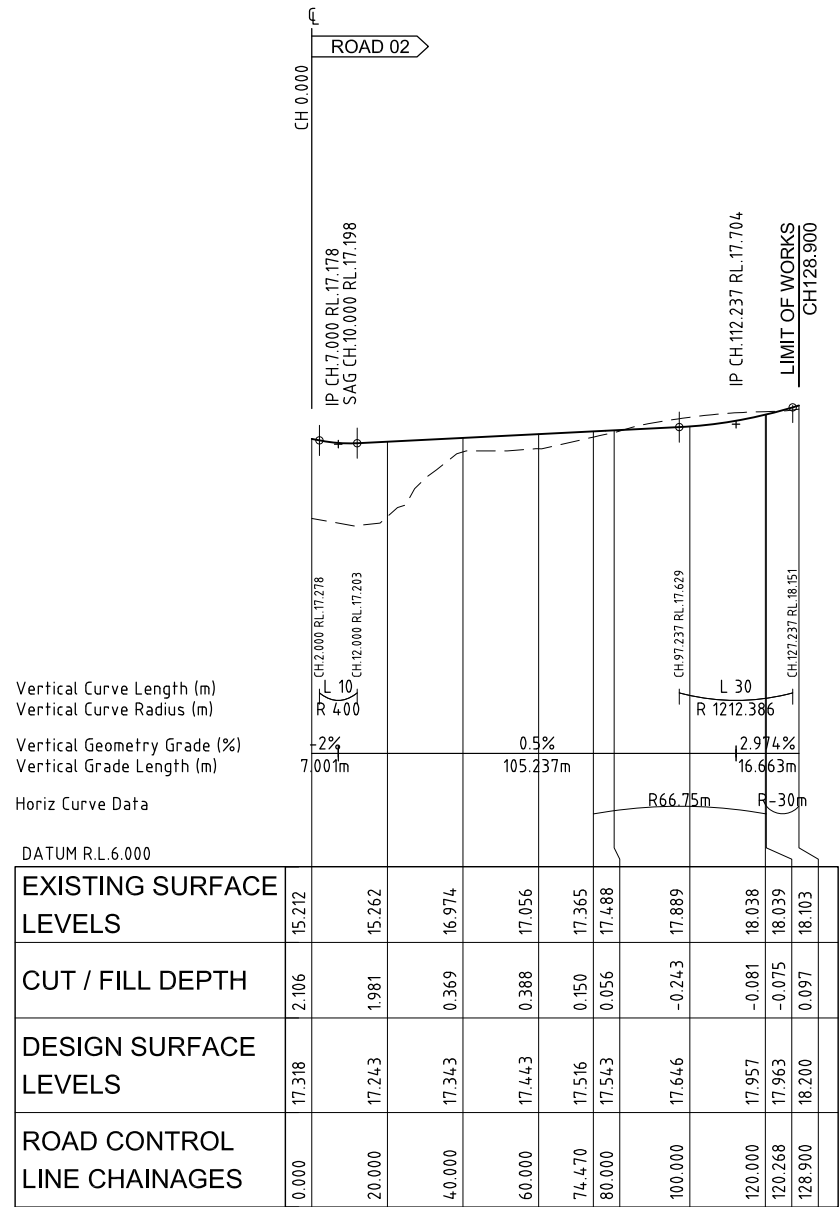
TASK	BY	INITIAL	DATE	APPROVED	RPEQ No.
REVIEW	C.S.		10.10.17		7817
DESIGN	G.O.		10.10.17		
DRAWN	B.T.		10.10.17		

DRAWING NUMBER: L17001-BE-0302

REVISION: A



ROAD 02 LONGITUDINAL SECTION



ROAD 05 LONGITUDINAL SECTION

REV	A	ORIGINAL ISSUE	B.T.	17.10.17
DESCRIPTION				

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SCALE @ A1 SIZE:

HORIZ
1 0 1 2 3 4 5 1:1000

VERT
1 0 1 2 3 4 5 1:100

CLIENT:
LEXEN No.2 PTY LTD

LEXEN

Level 1, 33 Elkhorn Avenue
Surfers Paradise QLD 4217
AUSTRALIA
Ph: (07) 5560 7160

PO Box 332
Chevron Island QLD 4217
AUSTRALIA
Email: info@lexen.com.au

PROJECT:
81, 83 & 85 SCHOOL ROAD,
LOGAN RESERVE QLD 4133
PROPOSED RESIDENTIAL SUBDIVISION

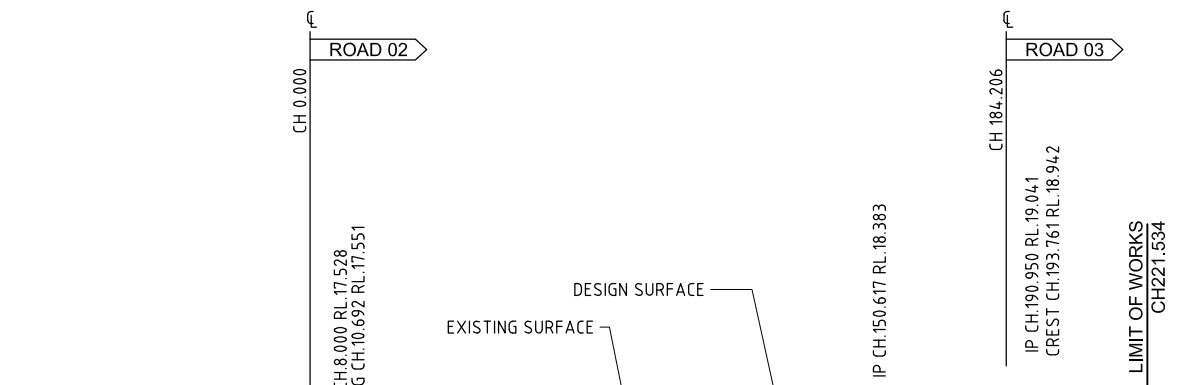
OPW - CHANGE TO GROUND LEVEL

TITLE:
ROAD LONGITUDINAL SECTIONS - SHEET 2
OF 4

TASK	BY	INITIAL	DATE	APPROVED	RPEQ No.	7817
REVIEW	C.S.		10.10.17			
DESIGN	G.O.		10.10.17			
DRAWN	B.T.		10.10.17			

DRAWING NUMBER
L17001-BE-0303

REVISION
A

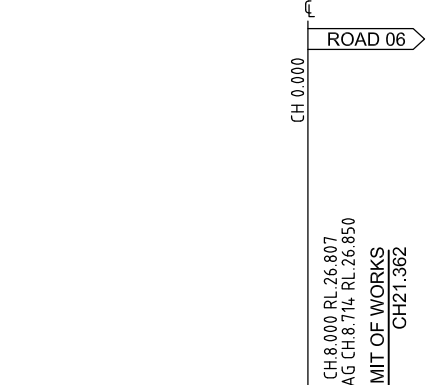


Vertical Curve Length (m)
Vertical Curve Radius (m)
Vertical Geometry Grade (%)
Vertical Grade Length (m)

Horiz Curve Data

DATUM R.L.8.000				
EXISTING SURFACE LEVELS	17.024	17.073	17.191	17.376
CUT / FILL DEPTH	0.663	0.527	0.529	0.464
DESIGN SURFACE LEVELS	17.688	17.600	17.720	17.888
ROAD CONTROL LINE CHAINAGES	0.000	20.000	40.000	60.000

ROAD 04 LONGITUDINAL SECTION

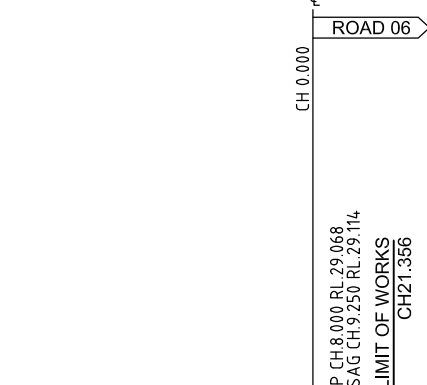


Vertical Curve Length (m)
Vertical Curve Radius (m)
Vertical Geometry Grade (%)
Vertical Grade Length (m)

Horiz Curve Data

DATUM R.L.17.000				
EXISTING SURFACE LEVELS	27.000	26.410	26.338	26.338
CUT / FILL DEPTH	-0.033	0.576	0.669	0.669
DESIGN SURFACE LEVELS	26.967	26.987	27.007	27.007
ROAD CONTROL LINE CHAINAGES	-0.000	20.000	21.362	21.362

ROAD 07 LONGITUDINAL SECTION

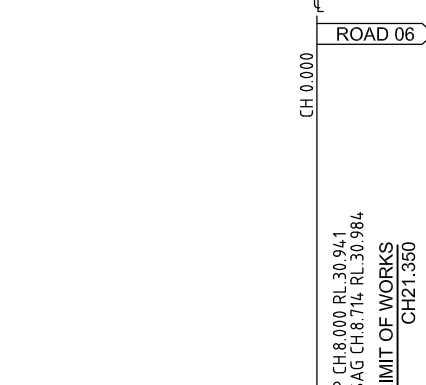


Vertical Curve Length (m)
Vertical Curve Radius (m)
Vertical Geometry Grade (%)
Vertical Grade Length (m)

Horiz Curve Data

DATUM R.L.19.000				
EXISTING SURFACE LEVELS	29.492	28.648	28.586	28.586
CUT / FILL DEPTH	-0.224	0.599	0.682	0.682
DESIGN SURFACE LEVELS	29.268	29.248	29.268	29.268
ROAD CONTROL LINE CHAINAGES	0.000	20.000	21.356	21.356

ROAD 08 LONGITUDINAL SECTION



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

Horiz Curve Data

DATUM R.L.21.000				
EXISTING SURFACE LEVELS	31.315	30.503	30.446	30.446
CUT / FILL DEPTH	-0.214	0.618	0.695	0.695
DESIGN SURFACE LEVELS	31.101	31.121	31.141	31.141
ROAD CONTROL LINE CHAINAGES	0.000	20.000	21.350	21.350

ROAD 09 LONGITUDINAL SECTION

REV	A	ORIGINAL ISSUE	B.T.	17.10.17
DESCRIPTION				

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SCALE @ A1 SIZE:

HORIZ 1:1000

VERT 1:100

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Surfers Paradise QLD 4217
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Chevron Island QLD 4217
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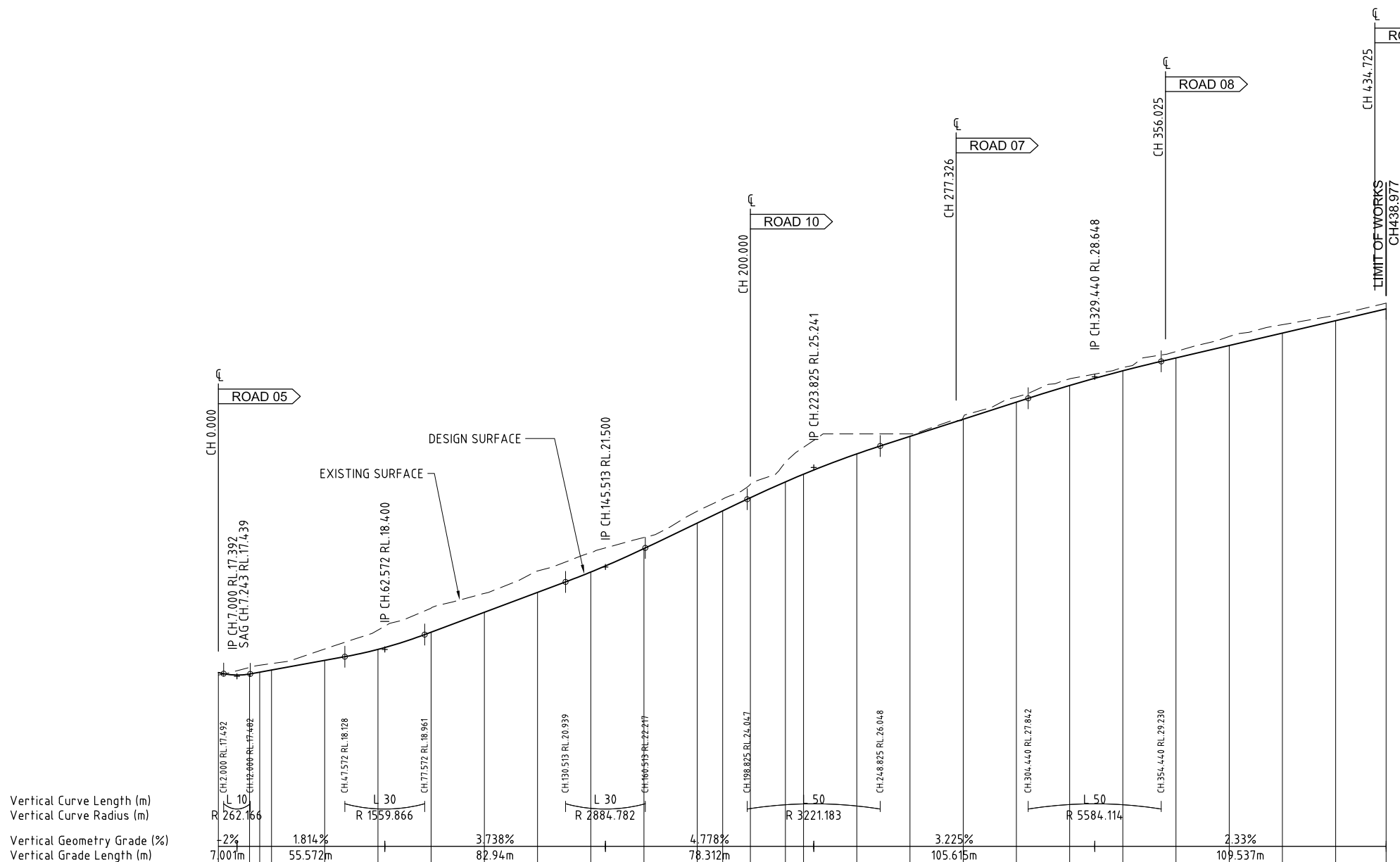
OPW - CHANGE TO GROUND LEVEL

TITLE:
ROAD LONGITUDINAL SECTIONS - SHEET 3
OF 4

TASK	BY	INITIAL	DATE	APPROVED	RPEQ No.
REVIEW	C.S.		10.10.17		7817
DESIGN	G.O.		10.10.17		
DRAWN	B.T.		10.10.17		

DRAWING NUMBER: L17001-BE-0304

REVISION: A



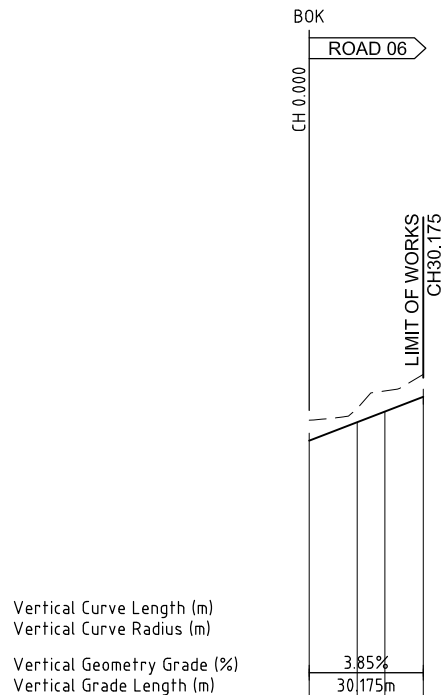
Vertical Curve Length (m)
Vertical Curve Radius (m)
Vertical Geometry Grade (%)
Vertical Grade Length (m)

Horiz Curve Data

DATUM R.L.8.000

EXISTING SURFACE LEVELS	17.438	17.727	17.808	17.868	18.419	19.128	19.955	20.508	21.350	22.031	22.607	23.596	24.053	24.610	25.433	25.998	26.500	26.500	27.119	27.891	28.570	29.000	29.600	30.164	30.608	30.972	31.416
CUT / FILL DEPTH	0.094	-0.249	-0.261	-0.241	-0.428	-0.725	-0.903	-0.709	-0.804	-0.721	-0.415	-0.449	-0.446	-0.507	-0.733	-1.009	-0.749	-0.092	-0.066	-0.193	-0.248	-0.125	-0.241	-0.339	-0.316	-0.214	-0.216
DESIGN SURFACE LEVELS	17.532	17.478	17.547	17.628	17.990	18.403	19.051	19.799	20.546	21.310	22.192	23.148	23.607	24.103	24.700	24.989	25.751	26.408	27.053	27.698	28.322	28.875	29.360	29.826	30.292	30.758	31.200
ROAD CONTROL LINE CHAINAGES	0.000	11.755	15.554	20.000	40.000	60.000	80.000	100.000	120.000	140.000	160.000	180.000	189.608	200.000	213.168	220.000	240.000	260.000	280.000	300.000	320.000	340.000	360.000	380.000	400.000	420.000	438.977

ROAD 06 LONGITUDINAL SECTION



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

Horiz Curve Data

DATUM R.L.15.000

EXISTING SURFACE LEVELS	24.678	24.989	25.452	25.890
CUT / FILL DEPTH	-0.540	-0.362	-0.544	-0.590
DESIGN SURFACE LEVELS	24.138	24.627	24.908	25.300
ROAD CONTROL LINE CHAINAGES	0.000	12.688	20.000	30.175

ROAD 10 LONGITUDINAL SECTION

REV	DESCRIPTION	DRAWN	DATE
A	ORIGINAL ISSUE	B.T.	17.10.17

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PO Box 332
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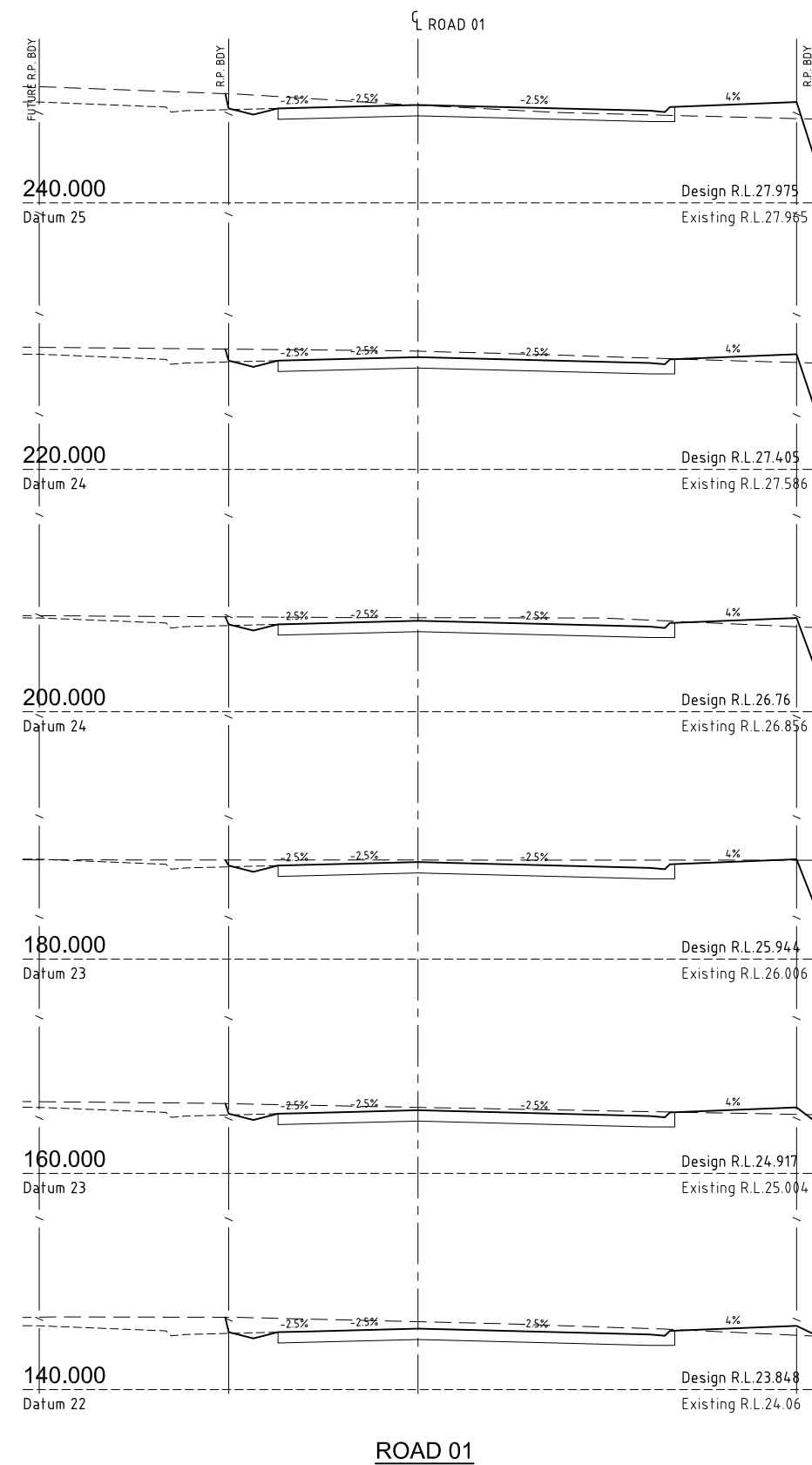
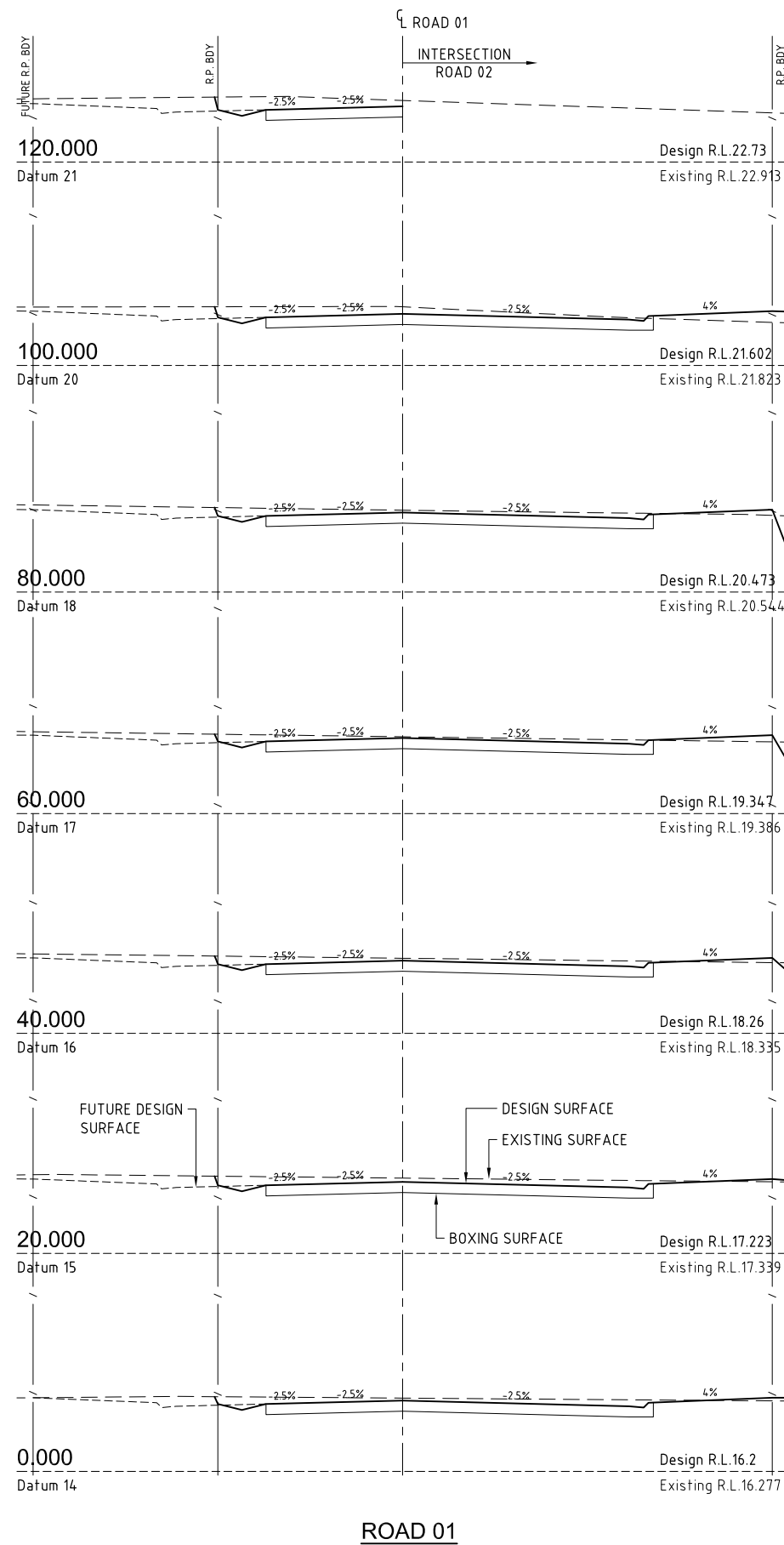
OPW - CHANGE TO GROUND LEVEL

TITLE:
ROAD LONGITUDINAL SECTIONS - SHEET 4
OF 4

TASK	BY	INITIAL	DATE	APPROVED	RPEQ No.
REVIEW	C.S.		10.10.17		7817
DESIGN	G.O.		10.10.17		
DRAWN	B.T.		10.10.17		

DRAWING NUMBER: L17001-BE-0305

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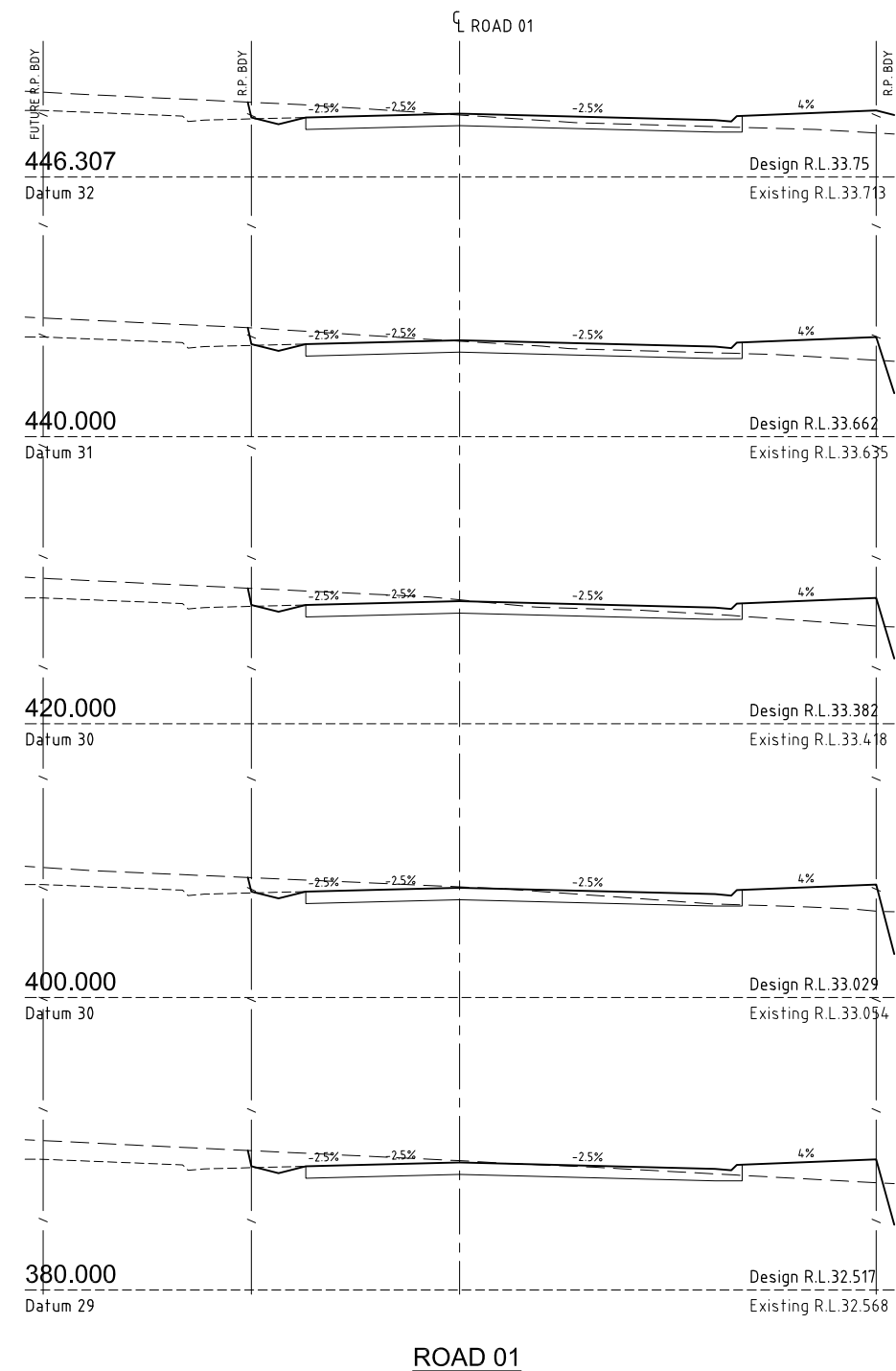
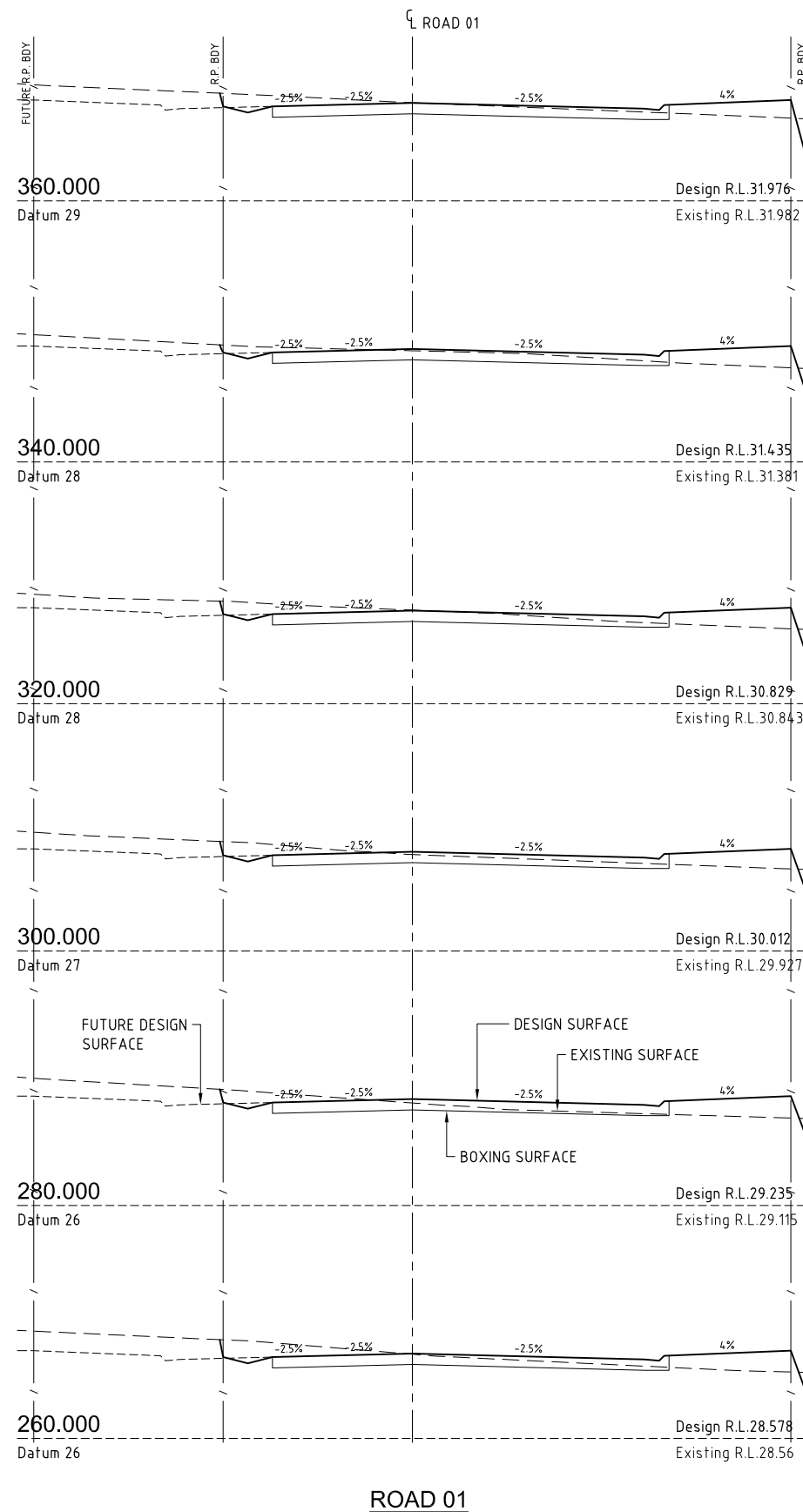
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LOGAN RESERVE QLD 4133
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OPW - CHANGE TO GROUND LEVEL

TITLE:

ROAD CROSS SECTIONS - SHEET 1 OF 8

TASK	BY	INITIAL	DATE	APPROVED	RPEQ No.	7817
REVIEW	C.S.		10.10.17		DRAWING NUMBER	REVISION
DESIGN	G.O.		10.10.17			
DRAWN	B.T.		10.10.17			
					L17001-BE-0306	A



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A	ORIGINAL ISSUE	B.T.	17.10.17

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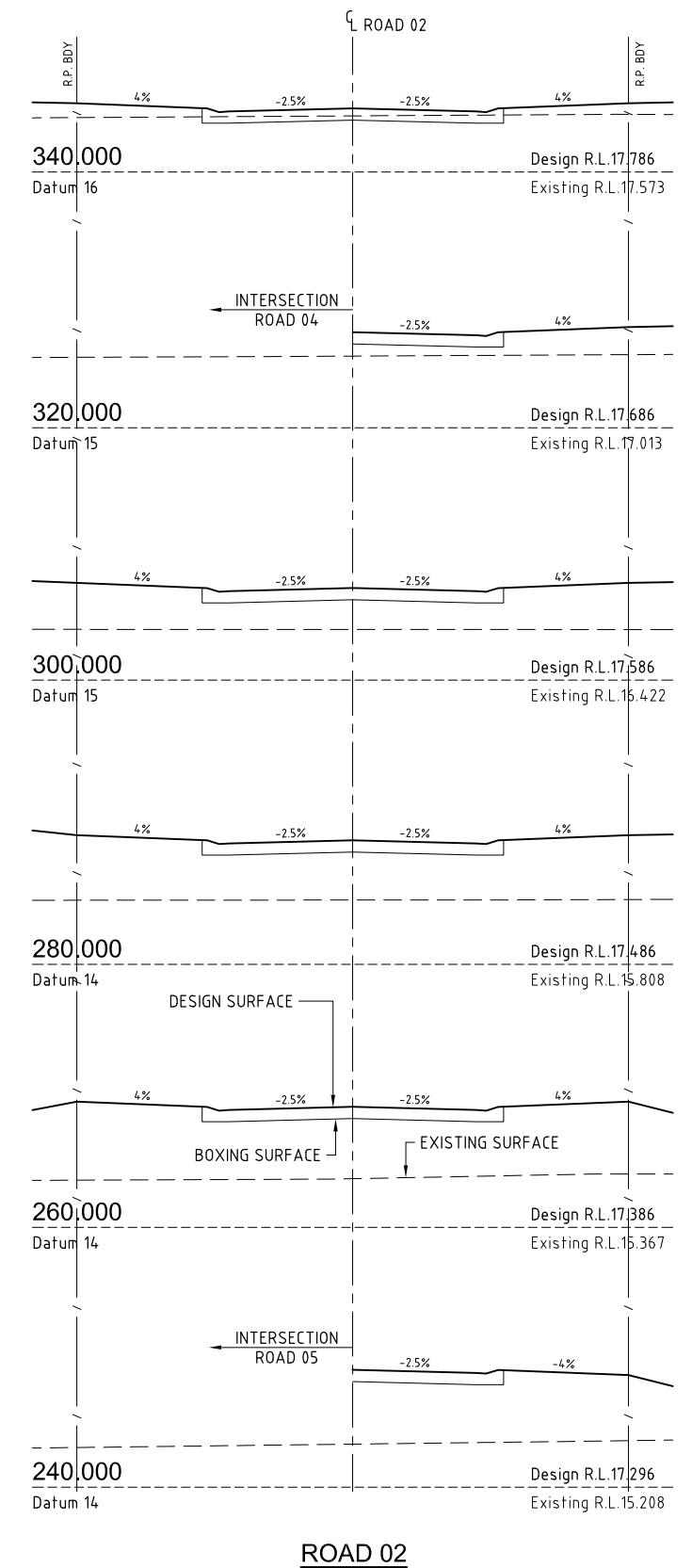
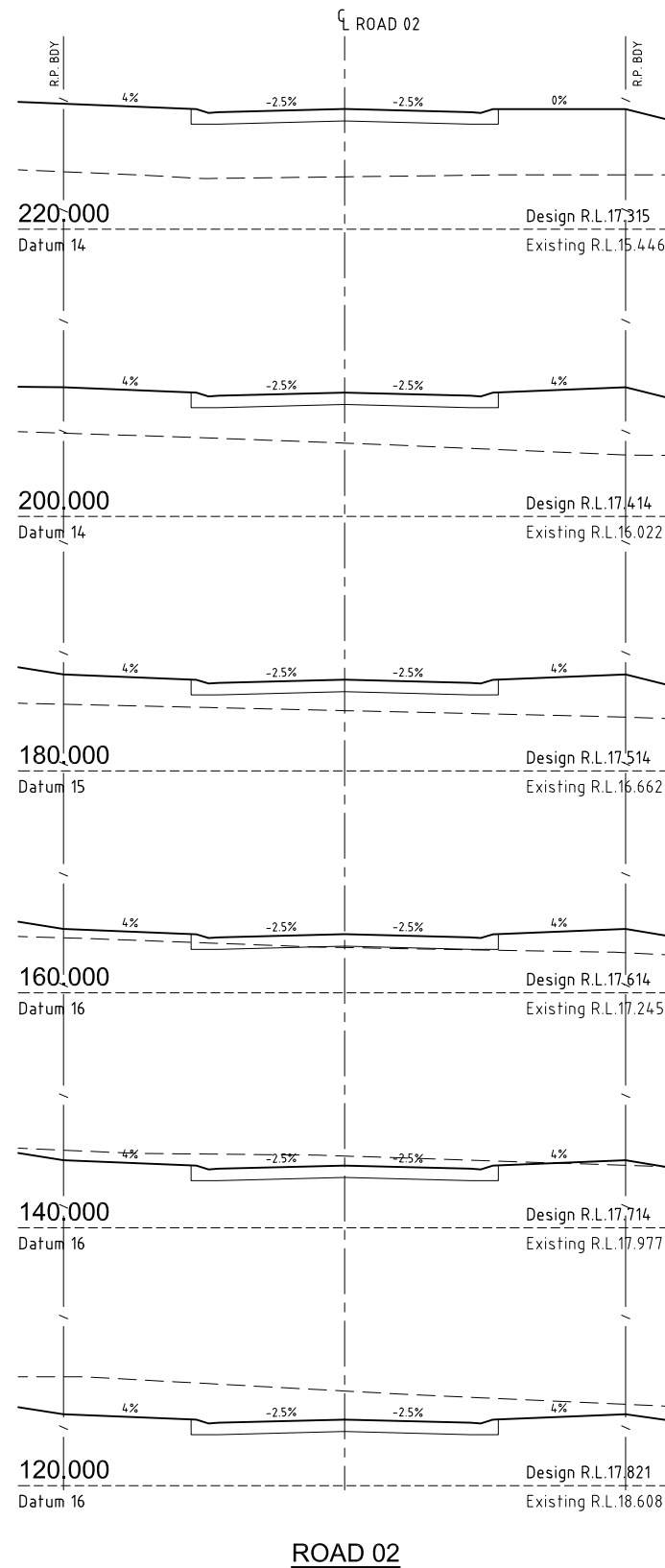
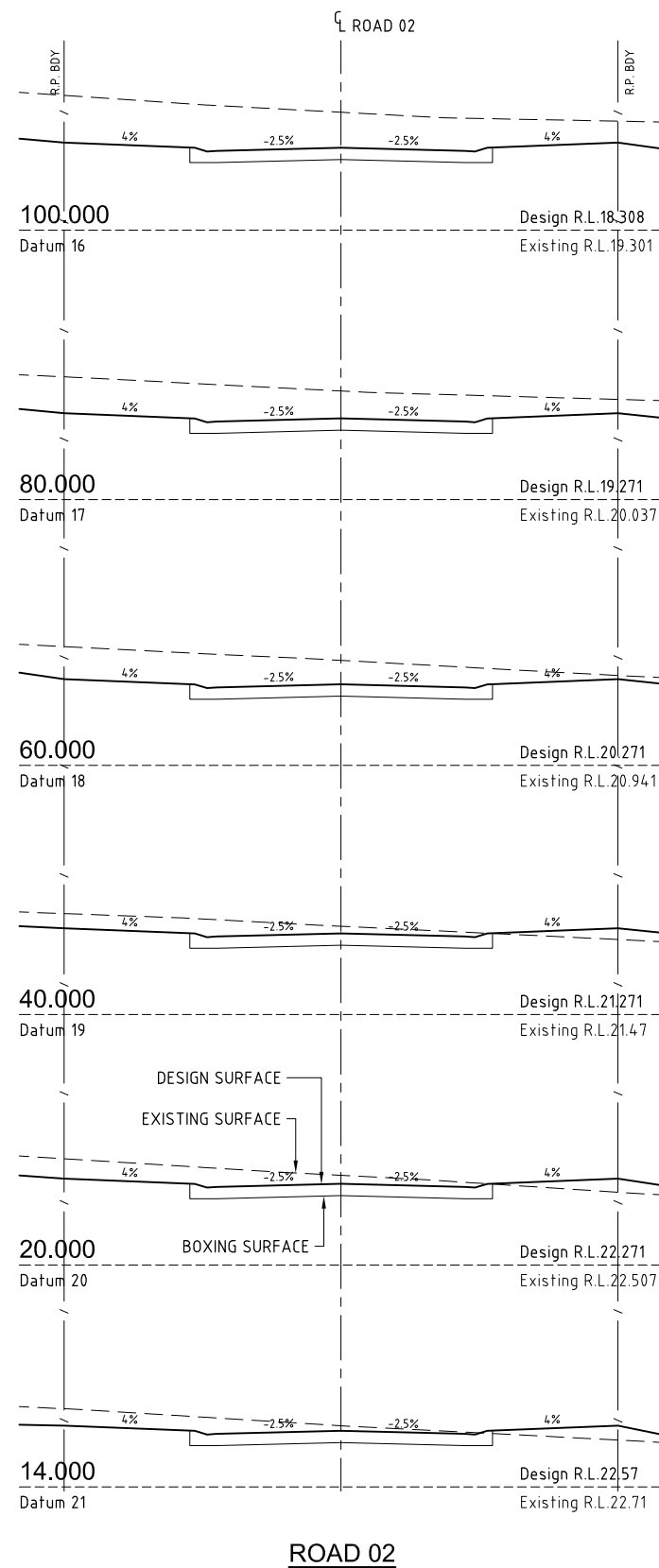
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OPW - CHANGE TO GROUND LEVEL

TITLE:

ROAD CROSS SECTIONS - SHEET 2 OF 8

TASK	BY	INITIAL	DATE	APPROVED	RPEQ No.	7817
REVIEW	C.S.		10.10.17			REVISION
DESIGN	G.O.		10.10.17			
DRAWN	B.T.		10.10.17			
DRAWING NUMBER					L17001-BE-0307	

L17001-BE-0307 ROAD CROSS SECTIONS SHEET 2 OF 8 Rev. 10.10.17 C.S. 7817



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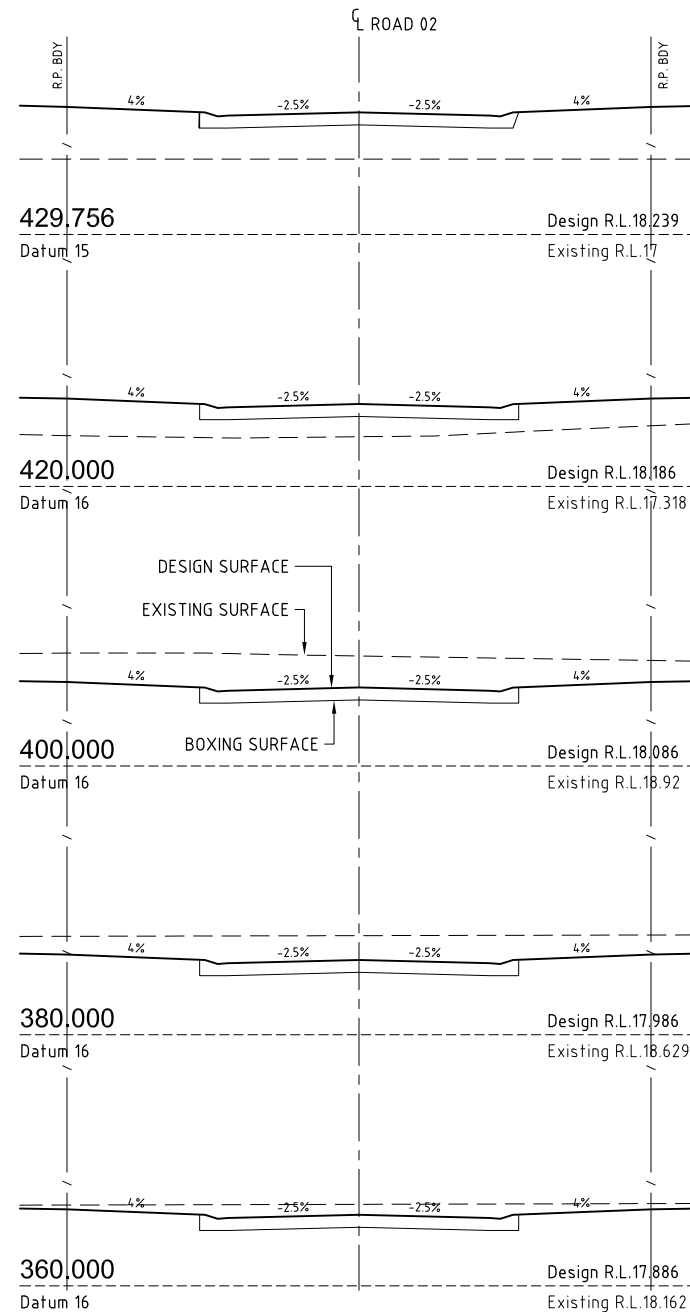
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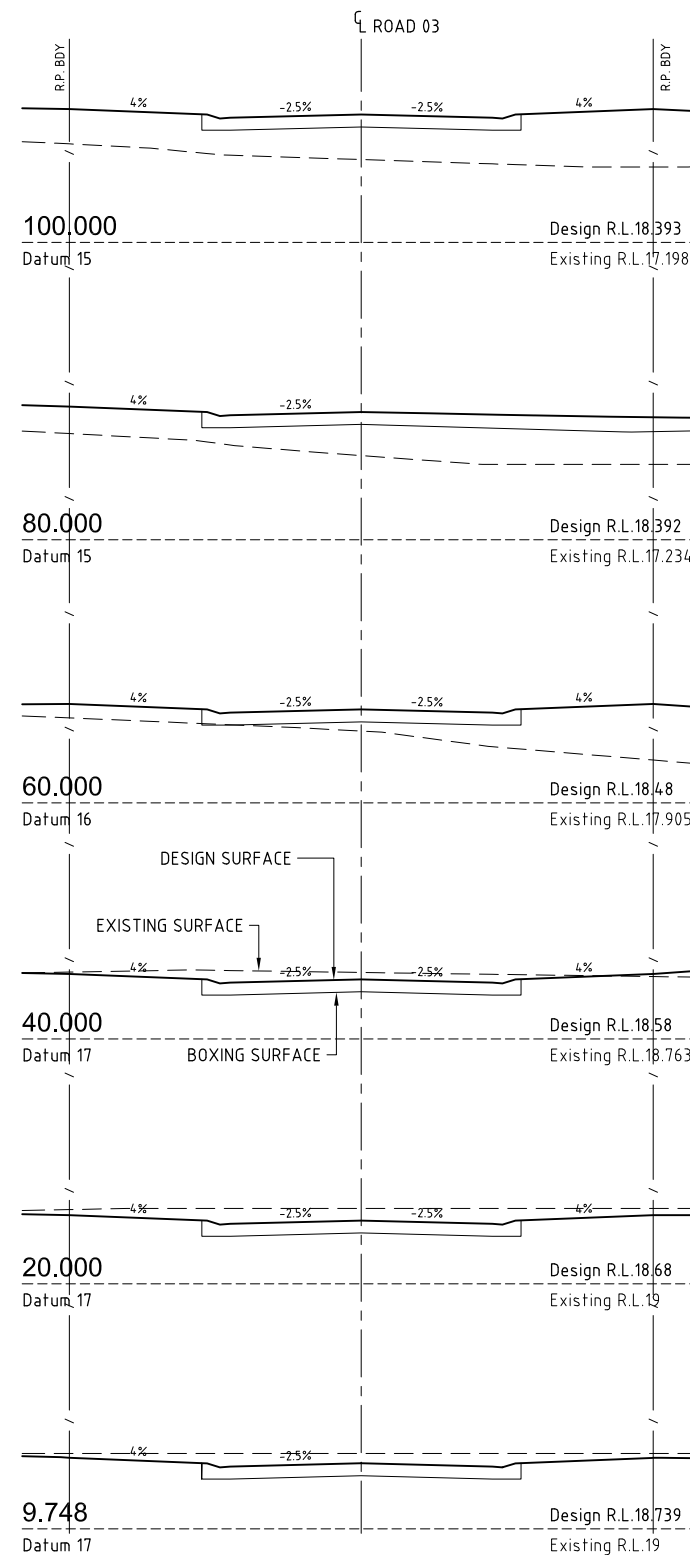
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OPW - CHANGE TO GROUND LEVEL

TITLE: ROAD CROSS SECTIONS - SHEET 3 OF 8					
TASK	BY	INITIAL	DATE	APPROVED	RPEQ No. 7817
REVIEW	C.S.		10.10.17		DRAWING NUMBER
DESIGN	G.O.		10.10.17		
DRAWN	B.T.		10.10.17		
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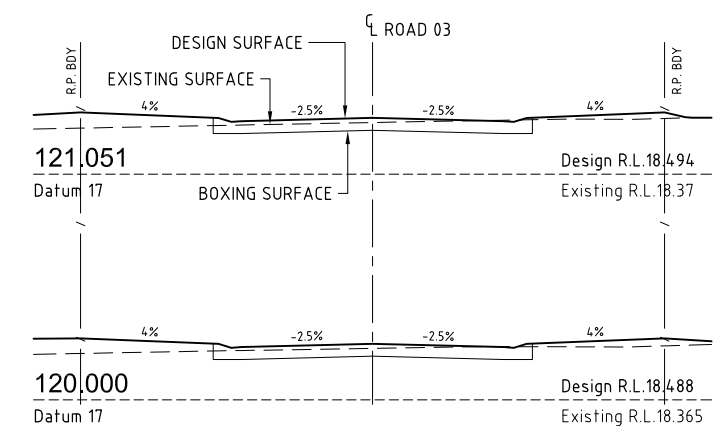
UTM: 56 1000 ROAD CROSS SECTIONS SHEET 3 OF 8 Rev: 01-17 Crag Signs



ROAD 02



ROAD 03



ROAD 03

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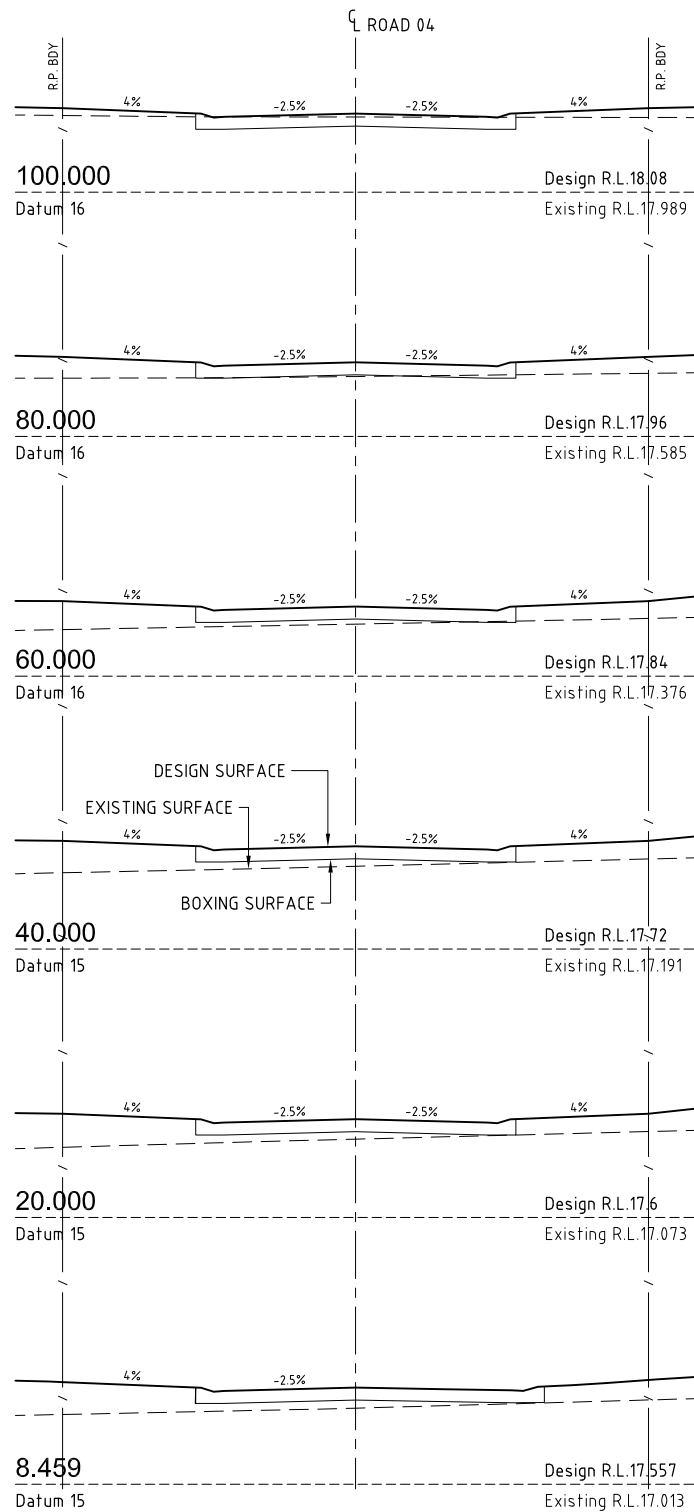
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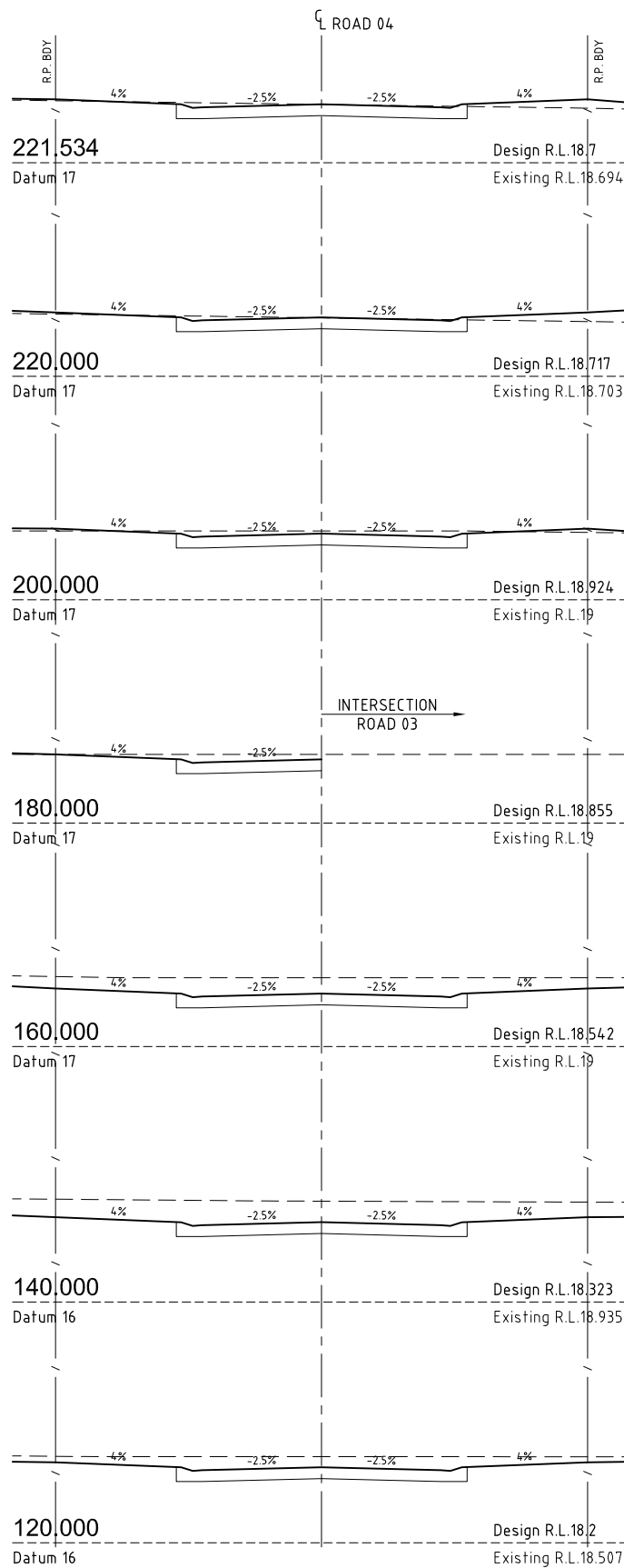
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OPW - CHANGE TO GROUND LEVEL	

TITLE:	ROAD CROSS SECTIONS - SHEET 4 OF 8			
TASK	BY	INITIAL	DATE	APPROVED
REVIEW	C.S.		10.10.17	
DESIGN	G.O.		10.10.17	
DRAWN	B.T.		10.10.17	
DRAWING NUMBER				REVISION
L17001-BE-0309				A

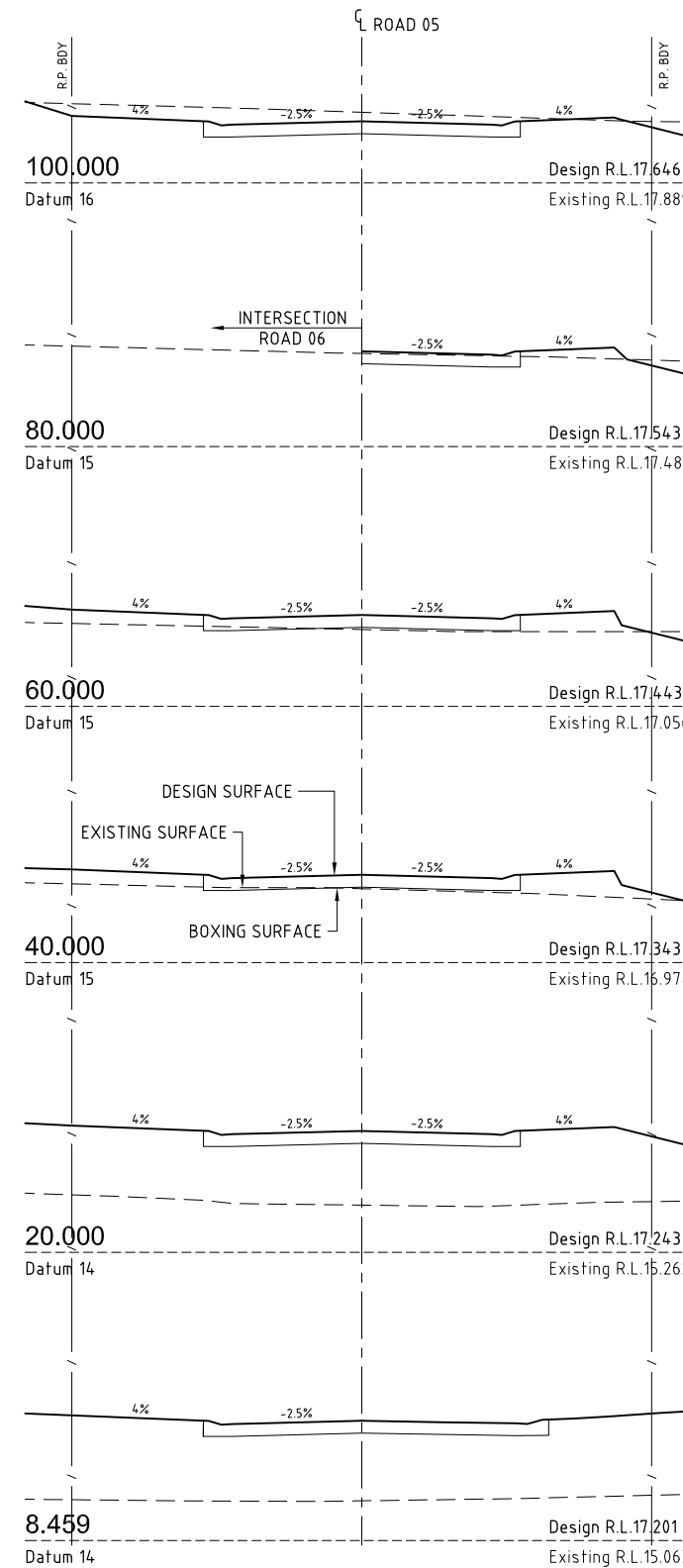
L17001-BE-0309 ROAD CROSS SECTIONS SHEET 4 OF 8 B.T. 17.10.17



ROAD 04



ROAD 04



ROAD 05

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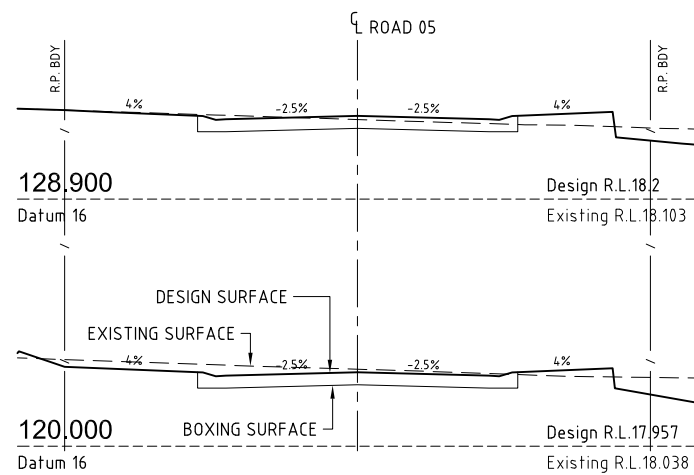
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	OPW - CHANGE TO GROUND LEVEL

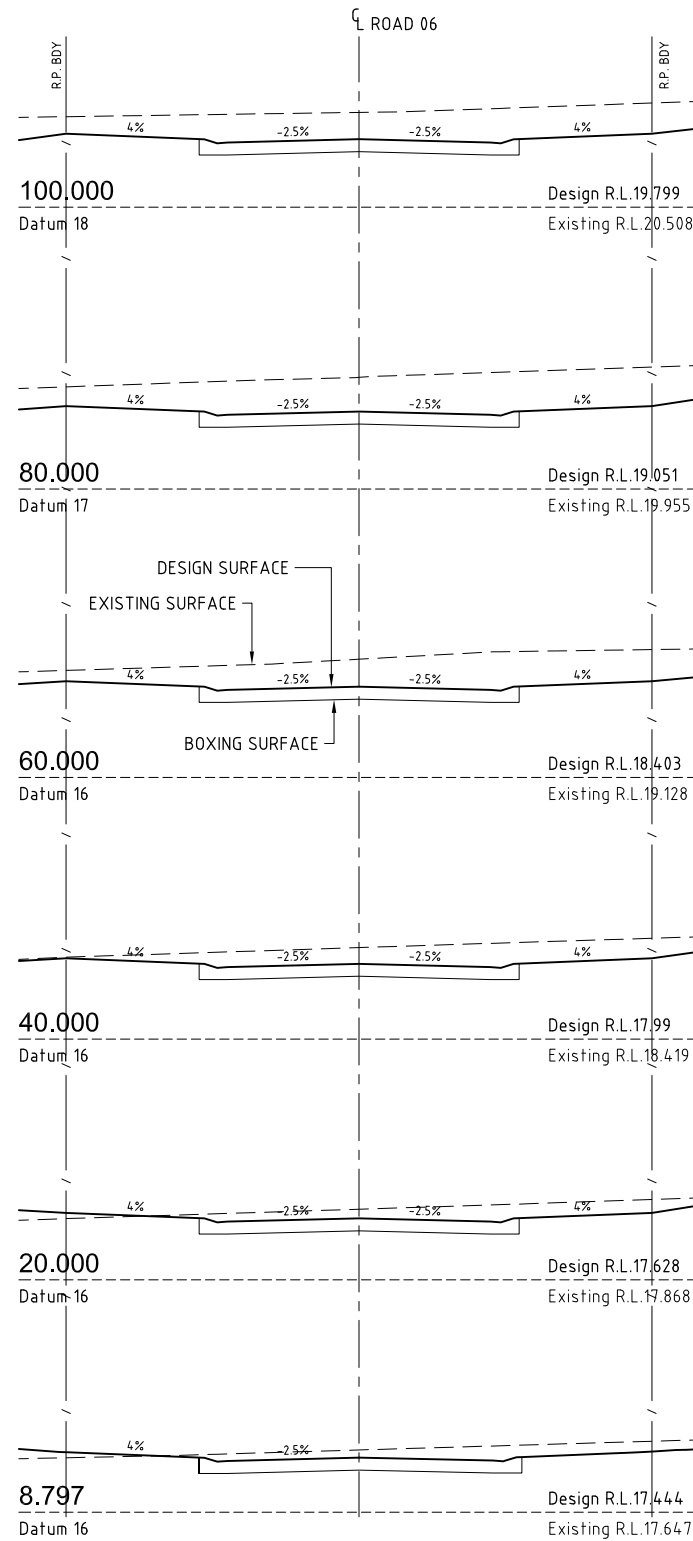
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ROAD CROSS SECTIONS - SHEET 5 OF 8

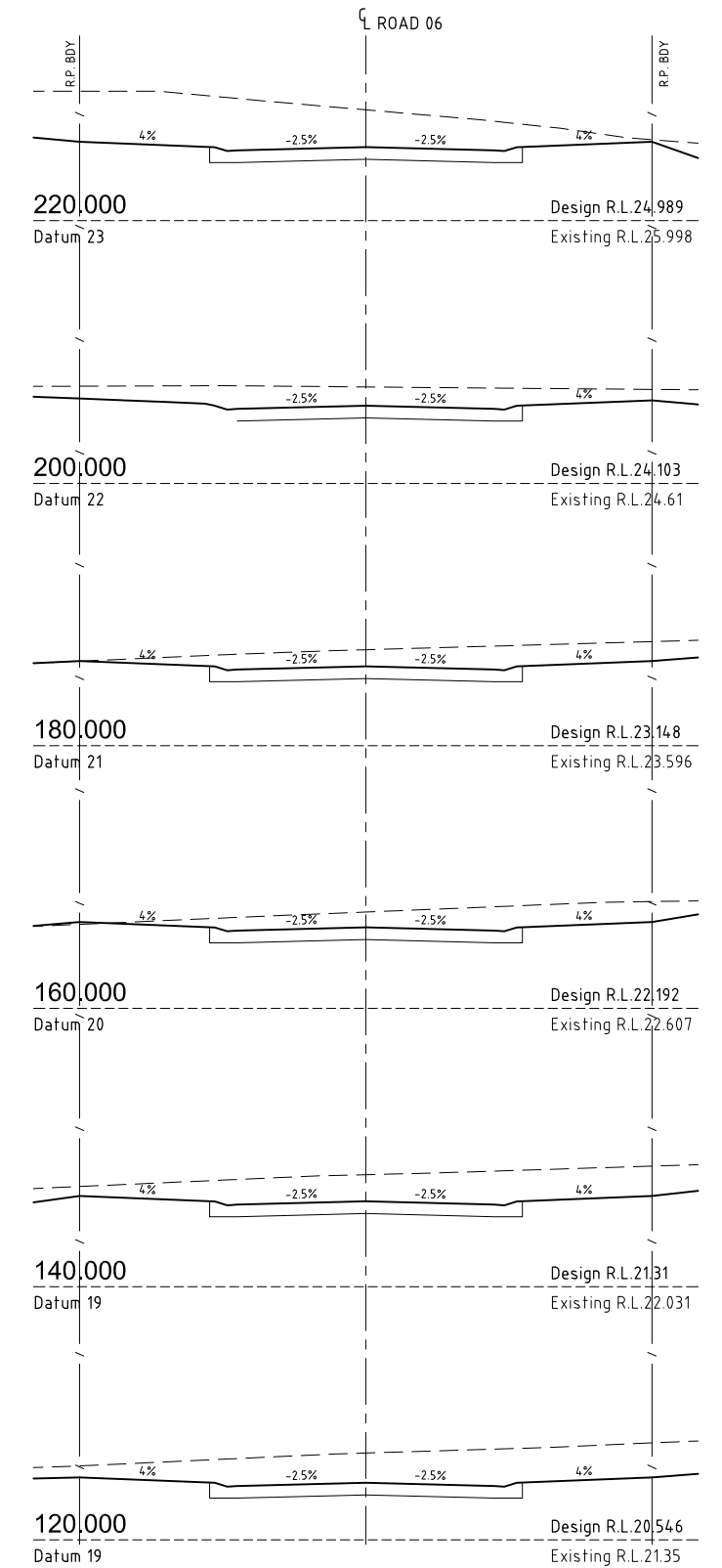
TASK	BY	INITIAL	DATE	APPROVED	RPEQ No.	7817
REVIEW	C.S.		10.10.17		DRAWING NUMBER	
DESIGN	G.O.		10.10.17		L17001-BE-0310	
DRAWN	B.T.		10.10.17		A	



ROAD 05



ROAD 06



ROAD 06

REV	DESCRIPTION	DRAWN	DATE
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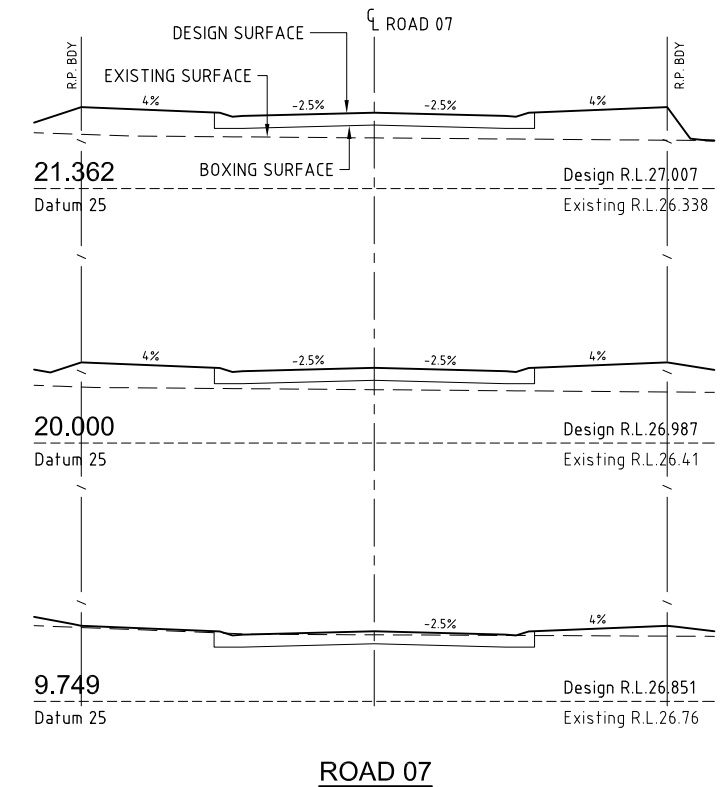
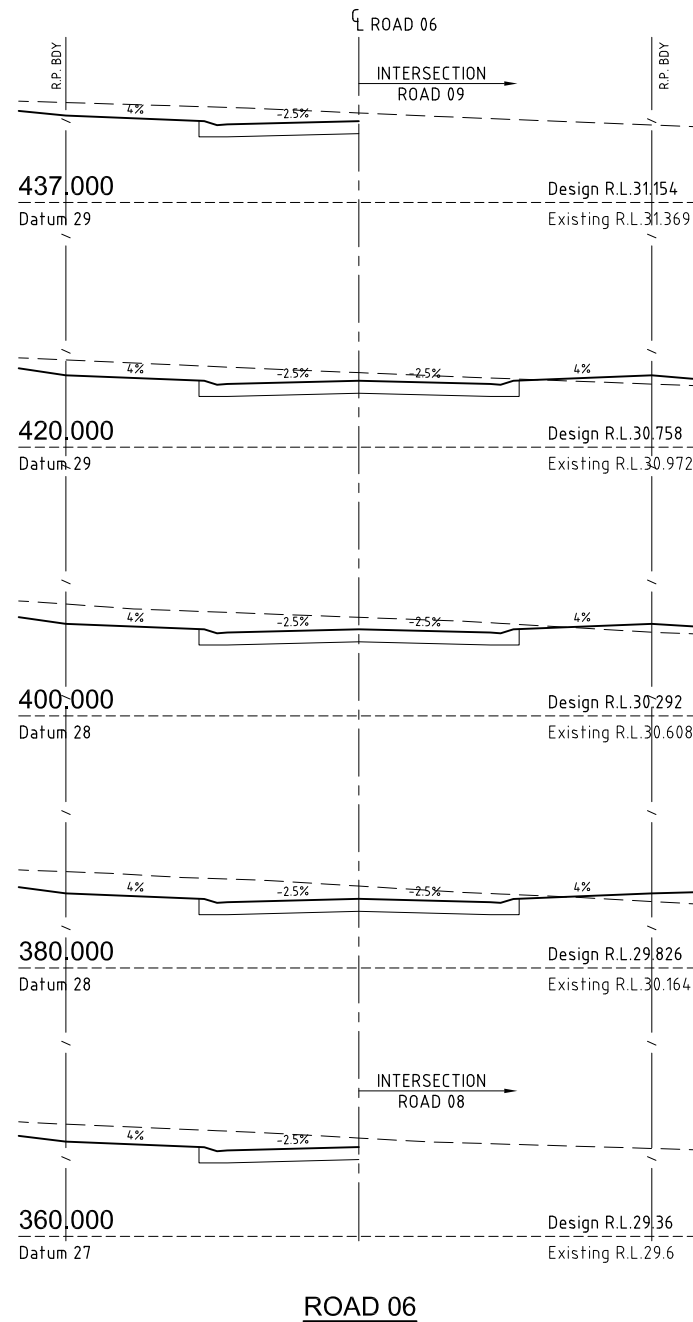
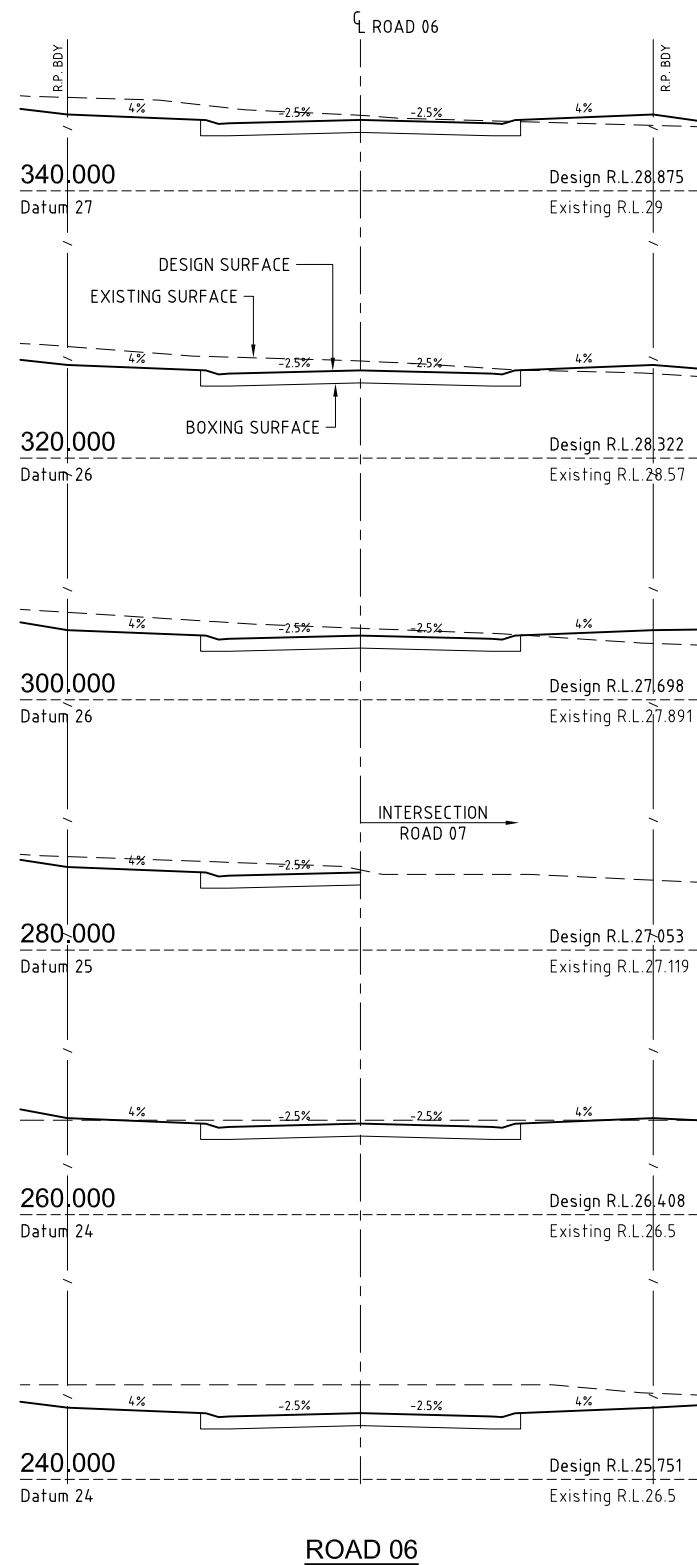
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	OPW - CHANGE TO GROUND LEVEL

TITLE:

ROAD CROSS SECTIONS - SHEET 6 OF 8

TASK	BY	INITIAL	DATE	APPROVED	RPEQ No.	7817
REVIEW	C.S.		10.10.17		DRAWING NUMBER	REVISION
DESIGN	G.O.		10.10.17			
DRAWN	B.T.		10.10.17			
					L17001-BE-0311	A

UTM: 50TQAD CROSS SECTION SHEET 6 OF 6 Map Pro: 1:1000



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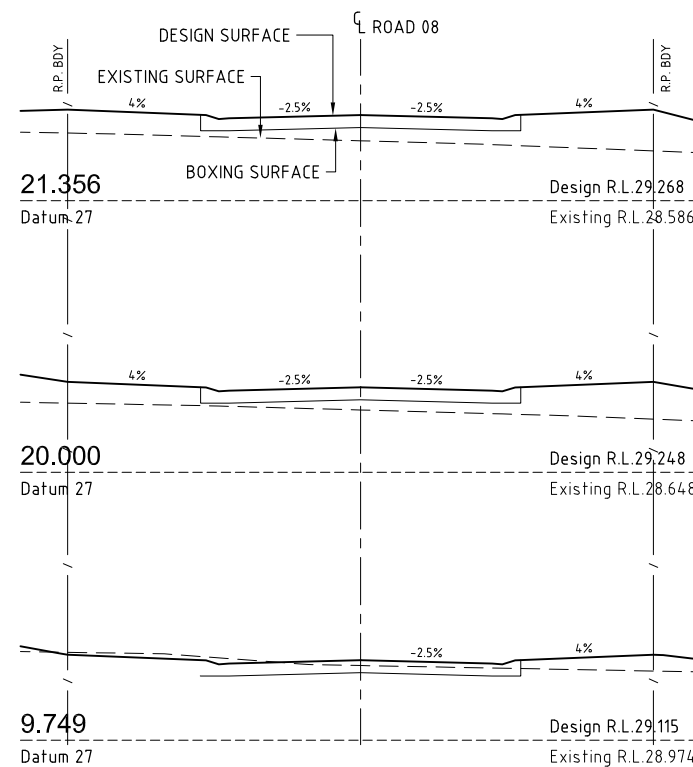
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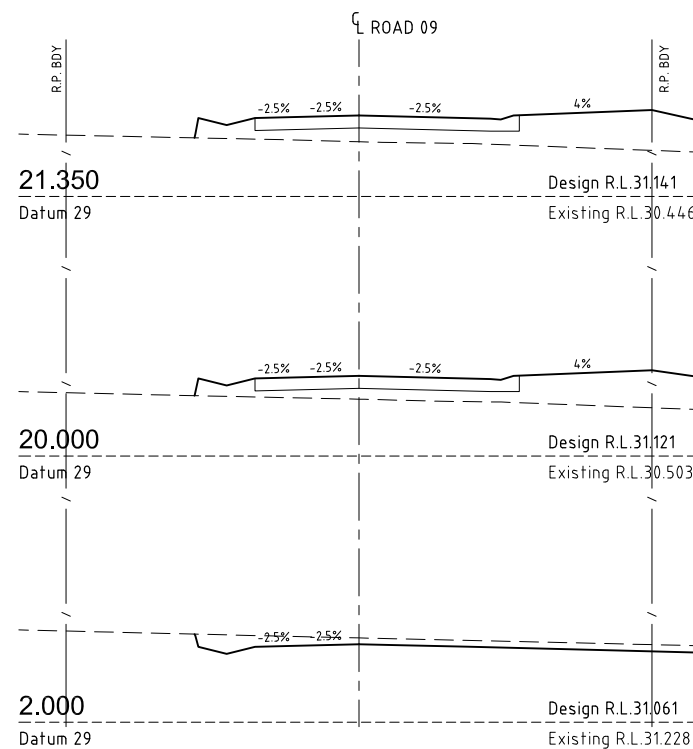
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ROAD CROSS SECTIONS - SHEET 7 OF 8

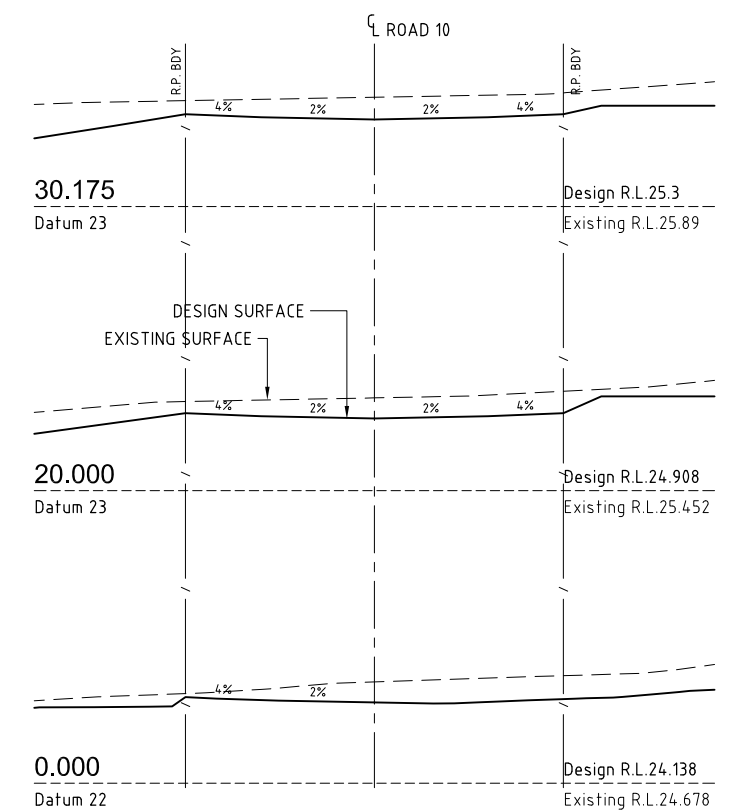
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REVIEW	C.S.		10.10.17		DRAWING NUMBER	REVISION
DESIGN	G.O.		10.10.17			
DRAWN	B.T.		10.10.17			
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ROAD 08



ROAD 09



ROAD 10

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TITLE:

ROAD CROSS SECTIONS - SHEET 8 OF 8

TASK	BY	INITIAL	DATE	APPROVED	RPEQ No.	7817
REVIEW	C.S.		10.10.17		DRAWING NUMBER	REVISION
DESIGN	G.O.		10.10.17			
DRAWN	B.T.		10.10.17			
					L17001-BE-0313	A

UTTMER 4133 ROAD CROSS SECTIONS SHEET 8 OF 8 Rev 01-17-17 Chris Spinks