

# Appendix F

## Preliminary Engineering Plans

# MT IRON JUNCTION - CONSENT ENGINEERING DESIGN

<b>CLIENT:</b> MT IRON JUNCTION LTD		<b>PPG JOB NUMBER:</b> P240103								
<b>PROJECT NAME:</b>	237 WANAKA - LUGGATE HIGHWAY, WANAKA	<b>DAY</b>	16	20						
		<b>MONTH</b>	12	02						
		<b>YEAR</b>	2025	2026						
<b>SHEET NO.</b>	<b>SHEET TITLE</b>	<b>DRAWING REVISIONS</b>								
<b>INDEX:</b>										
100	INDEX SHEET	0	1							
110	SITE OVERVIEW	0	1							
<b>EARTHWORKS:</b>										
200	EARTHWORKS NATURAL CONTOURS	0	1							
201	EARTHWORKS DESIGN CONTOURS	0	1							
202	EARTHWORKS CUT/FILL DEPTHS	0	1							
<b>ROADING:</b>										
300	ROADING OVERVIEW PLAN	0	1							
300A	ROADING LAYOUT - SHEET A	0	1							
300B	ROADING LAYOUT - SHEET B	0	1							
300C	ROADING LAYOUT - SHEET C	0	1							
300D	ROADING LAYOUT - SHEET D	0	1							
310	ROADING LONGSECTIONS - 1	0	1							
311	ROADING LONGSECTIONS - 2	0	1							
312	ROADING LONGSECTIONS - 3	0	1							
313	ROADING LONGSECTIONS - 4	0	1							
320	ROADING TYPICAL CROSS SECTIONS 1	0	1							
321	ROADING TYPICAL CROSS SECTIONS 2	0	1							
330A	ROADING SIGHT DISTANCES ASD & SSD 1	0	1							
330B	ROADING SIGHT DISTANCES ASD & SSD 2	0	1							
330C	ROADING SIGHT DISTANCES ASD & SSD 3	0	1							
331A	ROADING SIGHT DISTANCES SISD 1	0	1							
331B	ROADING SIGHT DISTANCES SISD 2	0	1							
331C	ROADING SIGHT DISTANCES SISD 3	0	1							
332A	ROADING SIGHT DISTANCES CSD 1	0	1							
332B	ROADING SIGHT DISTANCES CSD 2	0	1							
332C	ROADING SIGHT DISTANCES CSD 3	0	1							
340	ROADING VEHICLE TRACKING 1	0	1							
341	ROADING VEHICLE TRACKING 2	0	1							
342	ROADING VEHICLE TRACKING 3	0	1							
343	ROADING VEHICLE TRACKING 4	0	1							
344	ROADING VEHICLE TRACKING 5	0	1							
345	ROADING VEHICLE TRACKING 6	0	1							
346	ROADING VEHICLE TRACKING 7	0	1							
347	ROADING VEHICLE TRACKING 8	0	1							
<b>STORMWATER</b>										
400	DRAINAGE - OVERVIEW PLAN	0	1							
400A	STORMWATER LAYOUT - SHEET A	0	1							
400B	STORMWATER LAYOUT - SHEET B	0	1							
400C	STORMWATER LAYOUT - SHEET C	0	1							
410	STORMWATER LONGSECTIONS	0	1							
411	STORMWATER LONGSECTIONS	0	1							
412	STORMWATER LONGSECTIONS	0	1							

<b>WASTEWATER</b>										
500A	WASTEWATER LAYOUT - SHEET A	0	1							
500B	WASTEWATER LAYOUT - SHEET B	0	1							
500C	WASTEWATER LAYOUT - SHEET C	0	1							
500D	WASTEWATER LAYOUT - SHEET D	0	1							
510	WASTEWATER LONGSECTIONS 1	0	1							
511	WASTEWATER LONGSECTIONS 2	0	1							
512	WASTEWATER LONGSECTIONS 3	0	1							
513	WASTEWATER LONGSECTIONS 4	0	1							
514	WASTEWATER LONGSECTIONS 5	0	1							
<b>WATER SUPPLY</b>										
600	WATER SUPPLY - OVERVIEW PLAN	0	1							
600A	WATER SUPPLY LAYOUT - SHEET A	0	1							
600B	WATER SUPPLY LAYOUT - SHEET B	0	1							
600C	WATER SUPPLY LAYOUT - SHEET C	0	1							
<b>UTILITIES</b>										
800	COMBINED SERVICES - OVERVIEW PLAN	0	1							
800A	COMBINED SERVICES - SHEET A	0	1							
800B	COMBINED SERVICES - SHEET B	0	1							
800C	COMBINED SERVICES - SHEET C	0	1							
800D	COMBINED SERVICES - SHEET D	0	1							
850	FLOOR LEVEL PLAN	0	1							

		Day	16	20						
		Month	12	02						
		Year	2025	2026						
<b>DISTRIBUTION:</b>										
MOUNT IRON JUNCTION LTD			x							
CONSULTANTS TEAM		x	x							
QUEENSTOWN LAKES DISTRICT COUNCIL			x							
OTAGO REGIONAL COUNCIL										
CONTRACTOR										
<b>REASONS FOR ISSUE:</b>										
<b>DRAWING SIZE:</b>		A3	A3							
<b>MEDIA:</b>		PDF	PDF							
A = APPROVAL		D = DESIGN		X = PRICING		I = INFORMATION		P = FOR RESOURCE CONSENT		
C = CONSTRUCTION		T = TENDER		Y = CONSENT		R = REQUESTED		E = DXF OR DWG		



CLIENT  
**MT IRON JUNCTION LTD**  
JUNCTION ROAD, WANAKA

DRAWING TITLE  
**CONSENT ENGINEERING DESIGN**  
INDEX SHEET

DATUM INFORMATION  
COORDINATE SYSTEM  
LINDIS PEAK CIRCUIT  
DATUM  
ORIGIN OF COORDINATES  
ORIGIN OF LEVELS

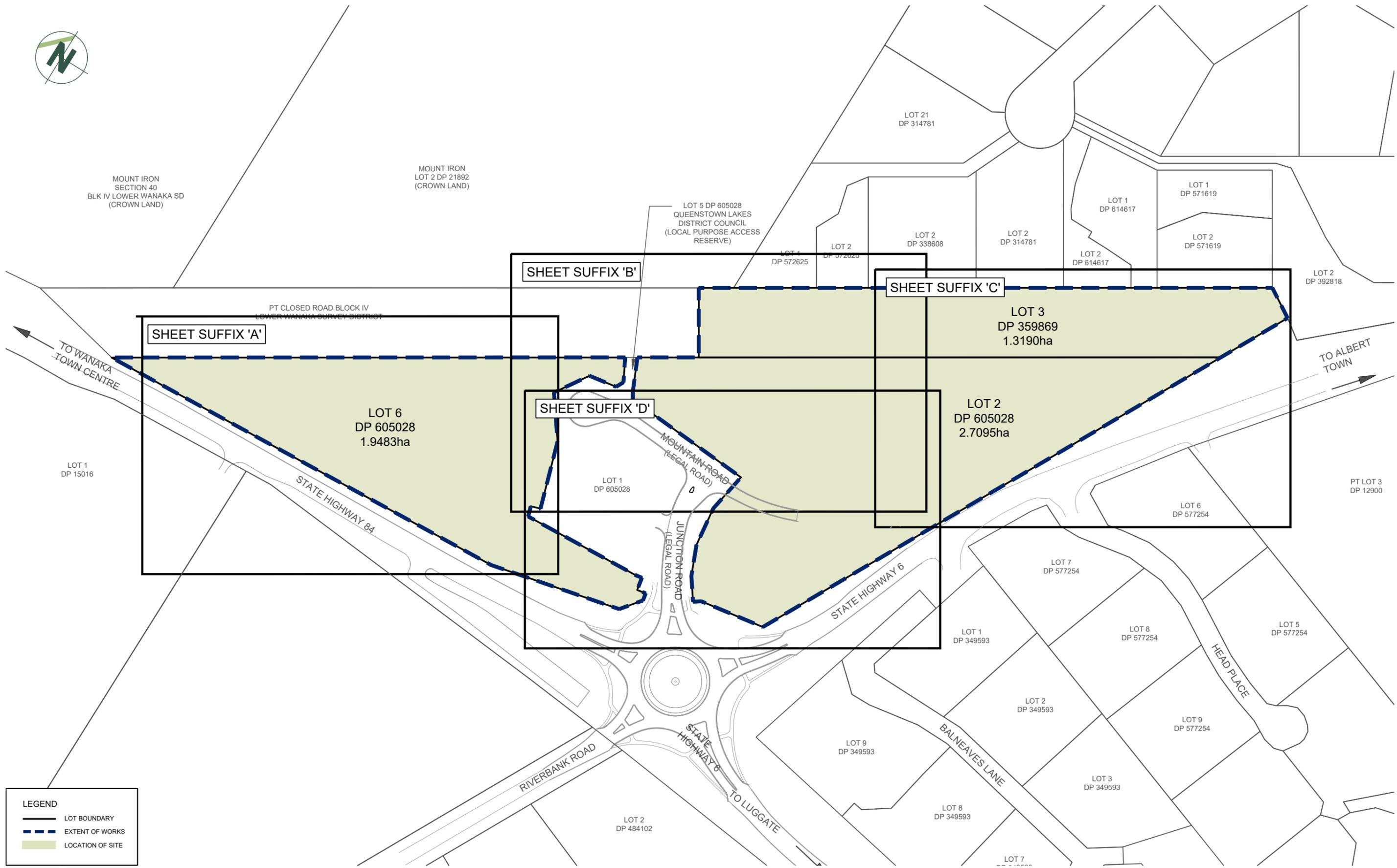
REV 01  
DRAWN PHJ  
DATE 20/02/2026  
NOTE Fast Track Application

STATUS **FOR RESOURCE CONSENT**

SURVEYED LIDAR  
DESIGNED PHJ  
DRAWN SS  
REVIEWED AH  
APPROVED DLW

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PROJECT **P240103**  
DRAWING NO **003**  
SHEET **100**  
REVISION **1**  
SCALE (A3) **N/A**



**LEGEND**

- LOT BOUNDARY
- EXTENT OF WORKS
- LOCATION OF SITE



MOUNT IRON  
SECTION 40  
BLK IV LOWER WANAKA SD  
(CROWN LAND)

MOUNT IRON  
LOT 2 DP 21892  
(CROWN LAND)

LOT 5 DP 605028  
QUEENSTOWN LAKES  
DISTRICT COUNCIL  
(LOCAL PURPOSE ACCESS  
RESERVE)

LOT 21  
DP 314781

LOT 1  
DP 614617

LOT 1  
DP 571619

LOT 2  
DP 338608

LOT 2  
DP 314781

LOT 2  
DP 571619

LOT 1  
DP 572625

LOT 2  
DP 572625

LOT 2  
DP 614617

LOT 2  
DP 392818

PT CLOSED ROAD 319.5K IV  
LOWER WANAKA SURVEY DISTRICT

LOT 1  
DP 15016

PT LOT 3  
DP 12900

LOT 6  
DP 577254

LOT 7  
DP 577254

LOT 5  
DP 577254

LOT 1  
DP 349593

LOT 8  
DP 577254

LOT 2  
DP 349593

LOT 9  
DP 577254

LOT 9  
DP 349593

LOT 3  
DP 349593

LOT 8  
DP 349593

LOT 2  
DP 484102

LOT 7  
DP 349593

**NOTES**

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING ALL EXISTING SERVICES PRIOR TO COMMENCEMENT OF WORKS. THE CONTRACTOR SHALL MAKE GOOD AT THEIR OWN EXPENSE ANY DAMAGE TO EXISTING SERVICES

2. ALL WORKS ARE TO BE INSTALLED AS PER THE QLDC LAND DEVELOPMENT AND SUBDIVISION CODE OF PRACTICE. STANDARD DRAWINGS ARE AVAILABLE FROM THE ENGINEER.

3. ALL KERBS ARE No.1 PROFILE UNLESS OTHERWISE SHOWN.

**EARTHWORKS LEGEND**

- NATURAL CONTOURS MINOR (0.5m INTERVAL)
- NATURAL CONTOURS MAJOR (1.0m INTERVAL)
- EXISTING LOT BOUNDARY
- EXTENT OF WORKS

CLIENT  
**MT IRON JUNCTION LTD**  
JUNCTION ROAD, WANAKA

DRAWING TITLE  
**CONSENT ENGINEERING DESIGN**  
**EARTHWORKS NATURAL CONTOURS**

DATUM INFORMATION  
COORDINATE SYSTEM NZGD 2000  
LINDIS PEAK CIRCUIT  
DATUM NZVD 2016  
ORIGIN OF COORDINATES  
ORIGIN OF LEVELS

REV DRAWN DATE NOTE  
01 PHJ 20/02/2026 Fast Track Application

STATUS **FOR RESOURCE CONSENT**

SURVEYED LIDAR  
DESIGNED PHJ  
DRAWN SS  
REVIEWED AH  
APPROVED DLW

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PROJECT **P240103**  
DRAWING NO **003**  
SHEET **200**  
REVISION **1**  
SCALE (A3) **1:2000**



MOUNT IRON  
SECTION 40  
BLK IV LOWER WANAKA SD  
(CROWN LAND)

MOUNT IRON  
LOT 2 DP 21892  
(CROWN LAND)

LOT 5 DP 605028  
QUEENSTOWN LAKES  
DISTRICT COUNCIL  
(LOCAL PURPOSE ACCESS  
RESERVE)

LOT 21  
DP 314781

LOT 1  
DP 614617

LOT 1  
DP 571619

LOT 2  
DP 571619

LOT 2  
DP 392818

PT CLOSED ROAD BLOCK IV  
LOWER WANAKA SURVEY DISTRICT

LOT 1  
DP 15016

PT LOT 3  
DP 12900

LOT 1  
DP 605028

LOT 6  
DP 577254

LOT 7  
DP 577254

LOT 1  
DP 349593

LOT 8  
DP 577254

LOT 5  
DP 577254

LOT 2  
DP 349593

LOT 9  
DP 577254

LOT 9  
DP 349593

LOT 3  
DP 349593

LOT 8  
DP 349593

LOT 2  
DP 484102

**NOTES**

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**EARTHWORKS LEGEND**

-  DESIGN CONTOURS MINOR (0.2m INTERVAL)
-  DESIGN CONTOURS MAJOR (1.0m INTERVAL)
-  EXISTING LOT BOUNDARY
-  EXTENT OF WORKS



CLIENT  
**MT IRON JUNCTION LTD**  
JUNCTION ROAD, WANAKA

DRAWING TITLE  
**CONSENT ENGINEERING DESIGN**  
**EARTHWORKS DESIGN CONTOURS**

DATUM INFORMATION  
COORDINATE SYSTEM LINDIS PEAK 2000  
LINDIS PEAK CIRCUIT  
DATUM NZVD 2016  
ORIGIN OF COORDINATES  
ORIGIN OF LEVELS

REV DRAWN DATE NOTE  
01 PHJ 20/02/2026 Fast Track Application

STATUS **FOR RESOURCE CONSENT**

SURVEYED LIDAR  
DESIGNED PHJ  
DRAWN SS  
REVIEWED AH  
APPROVED DLW

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PROJECT **P240103**  
DRAWING NO **003**  
SHEET **201**  
REVISION **1**  
SCALE (A3) **1:2000**



MOUNT IRON SECTION 40  
BLK IV LOWER WANAKA SD  
(CROWN LAND)

MOUNT IRON  
LOT 2 DP 21892  
(CROWN LAND)

LOT 5 DP 605028  
QUEENSTOWN LAKES  
DISTRICT COUNCIL  
(LOCAL PURPOSE ACCESS  
RESERVE)

PT CLOSED ROAD BLOCK IV  
LOWER WANAKA SURVEY DISTRICT

LOT 1  
DP 15016

LOT 1  
DP 605028

PT LOT 3  
DP 12900

LOT 6  
DP 577254

LOT 7  
DP 577254

LOT 1  
DP 349593

LOT 8  
DP 577254

LOT 5  
DP 577254

LOT 2  
DP 349593

LOT 9  
DP 577254

LOT 9  
DP 349593

LOT 3  
DP 349593

LOT 8  
DP 349593

LOT 2  
DP 484102

LOT 7

### NOTES

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### EARTHWORKS LEGEND

-  CUT CONTOURS DEPTHS (0.2m INTERVAL)
-  FILL CONTOUR DEPTHS (0.2m INTERVAL)
-  NO CUT/FILL
-  LOT BOUNDARY

### LEGEND

-  -1.4m -
-  -1.2m to -1.4m
-  -1.0m to -1.2m
-  -0.8m to -1.0m
-  -0.6m to -0.8m
-  -0.4m to -0.6m
-  -0.2m to -0.4m
-  0.0m to -0.2m

### CUT

### FILL

-  0.0m to 0.2m
-  0.2m to 0.4m
-  0.4m to 0.6m
-  0.6m to 0.8m
-  0.8m to 1.0m
-  1.0m to 1.2m
-  1.2m to 1.4m
-  1.4m +



CLIENT  
**MT IRON JUNCTION LTD**  
JUNCTION ROAD, WANAKA

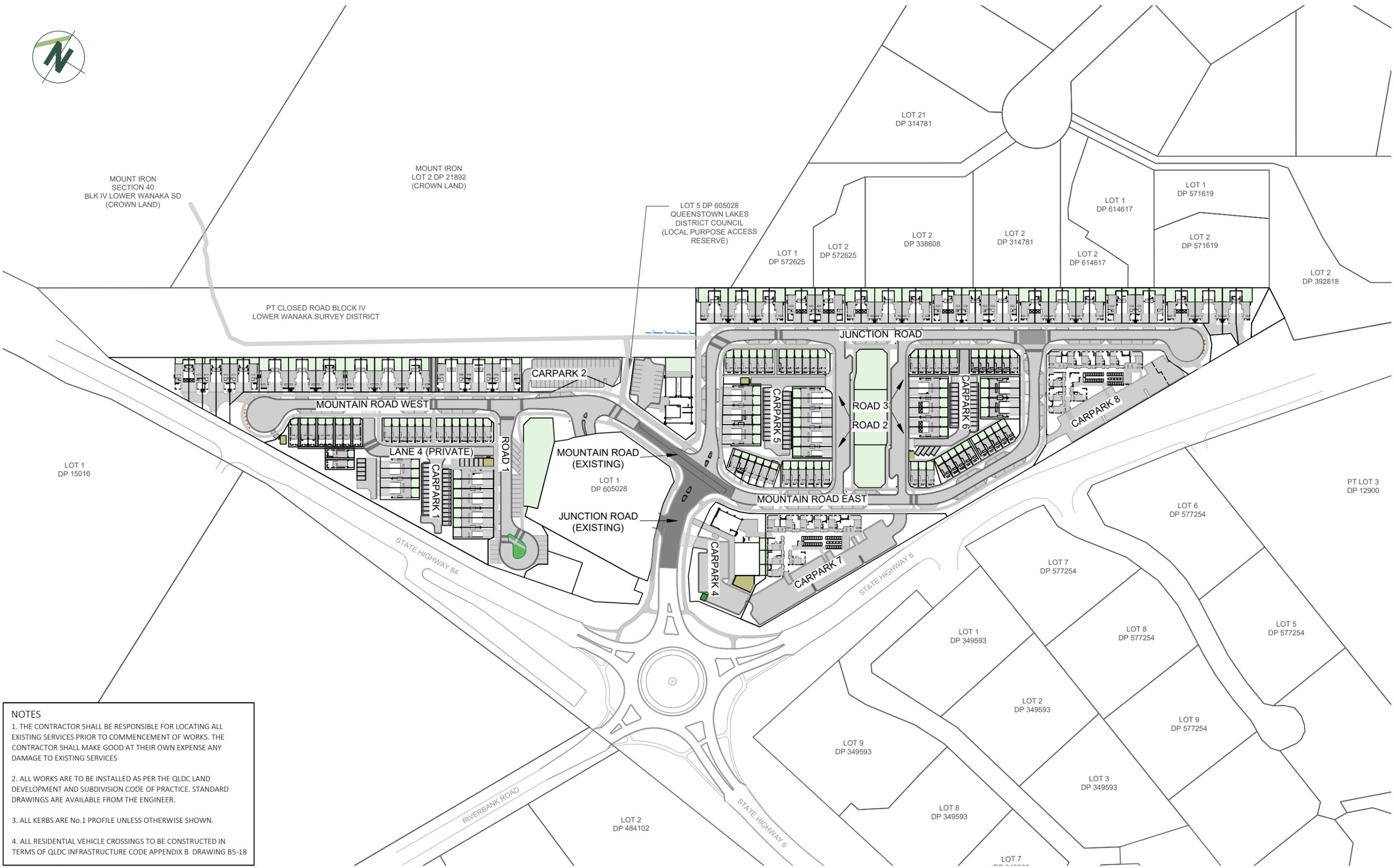
DRAWING TITLE  
**CONSENT ENGINEERING DESIGN**  
**EARTHWORKS CUT / FILL DEPTHS**

DATUM INFORMATION  
COORDINATE SYSTEM NZGD 2000  
LINDIS PEAK CIRCUIT  
DATUM NZVD2016  
ORIGIN OF COORDINATES  
ORIGIN OF LEVELS

REV DRAWN DATE NOTE  
01 PHJ 20/02/2026 Fast Track Application  
STATUS **FOR RESOURCE CONSENT**

SURVEYED LIDAR  
DESIGNED PHJ  
DRAWN SS  
REVIEWED AH  
APPROVED DLW  
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PROJECT **P240103**  
DRAWING NO **003**  
SHEET **202**  
REVISION **1**  
SCALE (A3) **1:2000**



**NOTES**

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3. ALL KERBS ARE No.1 PROFILE UNLESS OTHERWISE SHOWN.
4. ALL RESIDENTIAL VEHICLE CROSSINGS TO BE CONSTRUCTED IN TERMS OF QLDC INFRASTRUCTURE CODE APPENDIX B DRAWING B5-18



CLIENT  
**MT IRON JUNCTION LTD**  
**JUNCTION ROAD, WANAKA**

DRAWING TITLE  
**CONSENT ENGINEERING DESIGN**  
**ROADING OVERVIEW PLAN**

DATUM INFORMATION  
 COORDINATE SYSTEM NZGD 2000  
 LINDIS PEAK CIRCUIT  
 DATUM NZVD2016  
 ORIGIN OF COORDINATES  
 ORIGIN OF LEVELS

REV DRAWN DATE NOTE  
 01 PHJ 20/02/2026 Fast Track Application  
 STATUS **FOR RESOURCE CONSENT**

SURVEYED LIDAR  
 DESIGNED PHJ  
 DRAWN SS  
 REVIEWED AH  
 APPROVED DLW  
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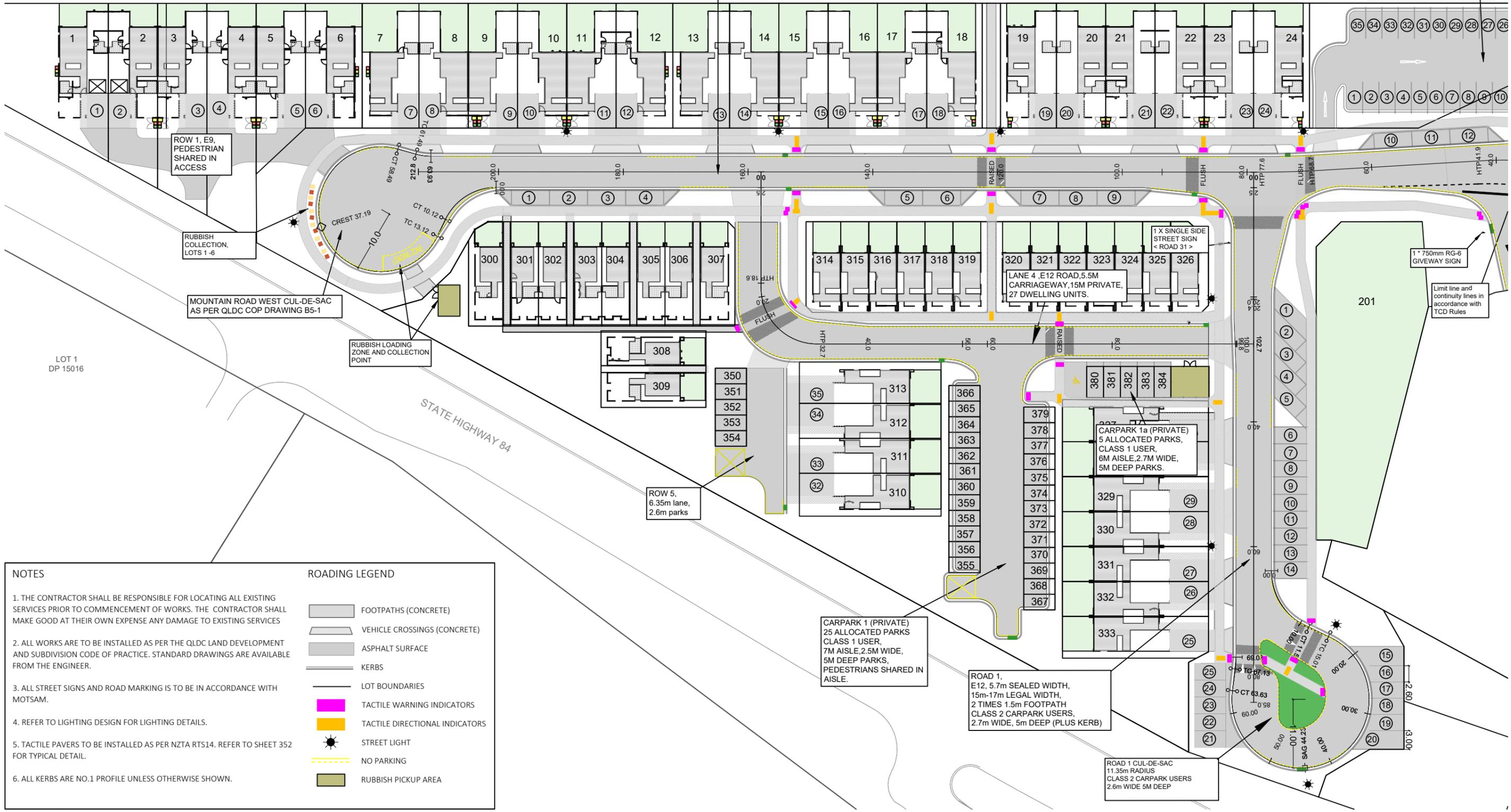
PROJECT **P240103**  
 DRAWING NO **003**  
 SHEET **300**  
 REVISION **1**  
 SCALE (A3) **1:2000**



PT CLOSED ROAD BLOCK IV  
LOWER WANAKA SURVEY DISTRICT

MOUNTAIN ROAD WEST,  
E12 ROAD, 5.7m CARRIAGEWAY,  
15m LEGAL WIDTH, 66 DWELLING UNITS,  
2 TIMES 1.5m FOOTPATHS.

CARPARK 2, PUBLIC,  
CLASS 2 USER (35 CARPARKS)  
7.0m AISLE WIDTH, 2.6m WIDE,  
5m DEEP PARKS, (12m QUEUE)  
PEDESTRIANS SHARED IN AISLE



ROW 1, E9,  
PEDESTRIAN  
SHARED IN  
ACCESS

RUBBISH  
COLLECTION,  
LOTS 1-6

MOUNTAIN ROAD WEST CUL-DE-SAC  
AS PER QLDC COP DRAWING B5-1

RUBBISH LOADING  
ZONE AND COLLECTION  
POINT

LOT 1  
DP 15016

STATE HIGHWAY 84

ROW 5,  
6.35m lane,  
2.6m parks

CARPARK 1 (PRIVATE)  
25 ALLOCATED PARKS  
CLASS 1 USER,  
7M AISLE, 2.5M WIDE,  
5M DEEP PARKS,  
PEDESTRIANS SHARED IN  
AISLE.

ROAD 1,  
E12, 5.7m SEALED WIDTH,  
15m-17m LEGAL WIDTH,  
2 TIMES 1.5m FOOTPATH  
CLASS 2 CARPARK USERS,  
2.7m WIDE, 5m DEEP (PLUS KERB)

ROAD 1 CUL-DE-SAC  
11.35m RADIUS  
CLASS 2 CARPARK USERS  
2.6m WIDE 5M DEEP

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2. ALL WORKS ARE TO BE INSTALLED AS PER THE QLDC LAND DEVELOPMENT AND SUBDIVISION CODE OF PRACTICE. STANDARD DRAWINGS ARE AVAILABLE FROM THE ENGINEER.
3. ALL STREET SIGNS AND ROAD MARKING IS TO BE IN ACCORDANCE WITH MOTSAM.
4. REFER TO LIGHTING DESIGN FOR LIGHTING DETAILS.
5. TACTILE PAVERS TO BE INSTALLED AS PER NZTA RTS14. REFER TO SHEET 352 FOR TYPICAL DETAIL.
6. ALL KERBS ARE NO.1 PROFILE UNLESS OTHERWISE SHOWN.

**ROADING LEGEND**

- FOOTPATHS (CONCRETE)
- VEHICLE CROSSINGS (CONCRETE)
- ASPHALT SURFACE
- KERBS
- LOT BOUNDARIES
- TACTILE WARNING INDICATORS
- TACTILE DIRECTIONAL INDICATORS
- STREET LIGHT
- NO PARKING
- RUBBISH PICKUP AREA



CLIENT  
**MT IRON JUNCTION LTD**  
JUNCTION ROAD, WANAKA

DRAWING TITLE  
**CONSENT ENGINEERING DESIGN**  
**ROADING LAYOUT**  
**SHEET A**

DATUM INFORMATION  
COORDINATE SYSTEM NZGD 2000  
LINDIS PEAK CIRCUIT  
DATUM NZVD2016  
ORIGIN OF COORDINATES  
ORIGIN OF LEVELS

REV DRAWN DATE NOTE  
01 PHJ 20/02/2026 Fast Track Application  
STATUS **FOR RESOURCE CONSENT**

SURVEYED LIDAR  
DESIGNED PHJ  
DRAWN SS  
REVIEWED AH  
APPROVED DLW  
© Paterson Pitts Limited Partnership

PROJECT **P240103**  
DRAWING NO **003**  
SHEET **300A**  
REVISION **1**  
SCALE (A3) **1:600**

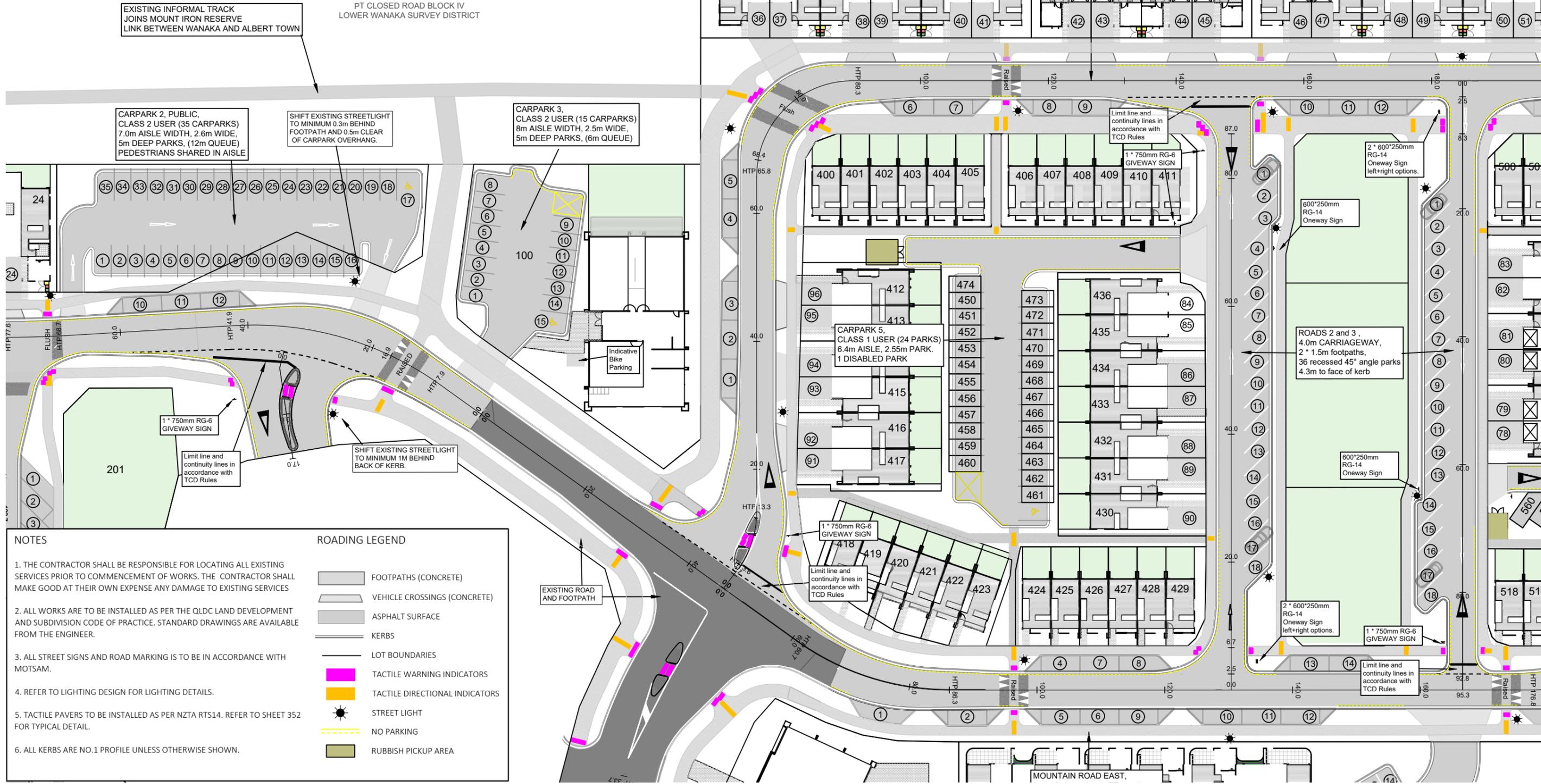


MOUNT IRON  
LOT 2 DP 21892  
CROWN LAND

LOT 1  
DP 572625  
JUNCTION ROAD EXT,  
E12 ROAD, 5.5m CARRIAGEWAY,  
15M LEGAL WIDTH, 1.5m FOOTPATH  
AND 3m MIXED USE PATH.

LOT 2  
DP 572625

LOT 2  
DP 338608



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**ROADING LEGEND**

- FOOTPATHS (CONCRETE)
- VEHICLE CROSSINGS (CONCRETE)
- ASPHALT SURFACE
- KERBS
- LOT BOUNDARIES
- TACTILE WARNING INDICATORS
- TACTILE DIRECTIONAL INDICATORS
- STREET LIGHT
- NO PARKING
- RUBBISH PICKUP AREA



CLIENT  
**MT IRON JUNCTION LTD**  
**JUNCTION ROAD, WANAKA**

DRAWING TITLE  
**CONSENT ENGINEERING DESIGN**  
**ROADING LAYOUT**  
**SHEET B**

DATUM INFORMATION  
COORDINATE SYSTEM NZGD 2000  
LINDIS PEAK CIRCUIT  
DATUM NZVD2016  
ORIGIN OF COORDINATES  
ORIGIN OF LEVELS

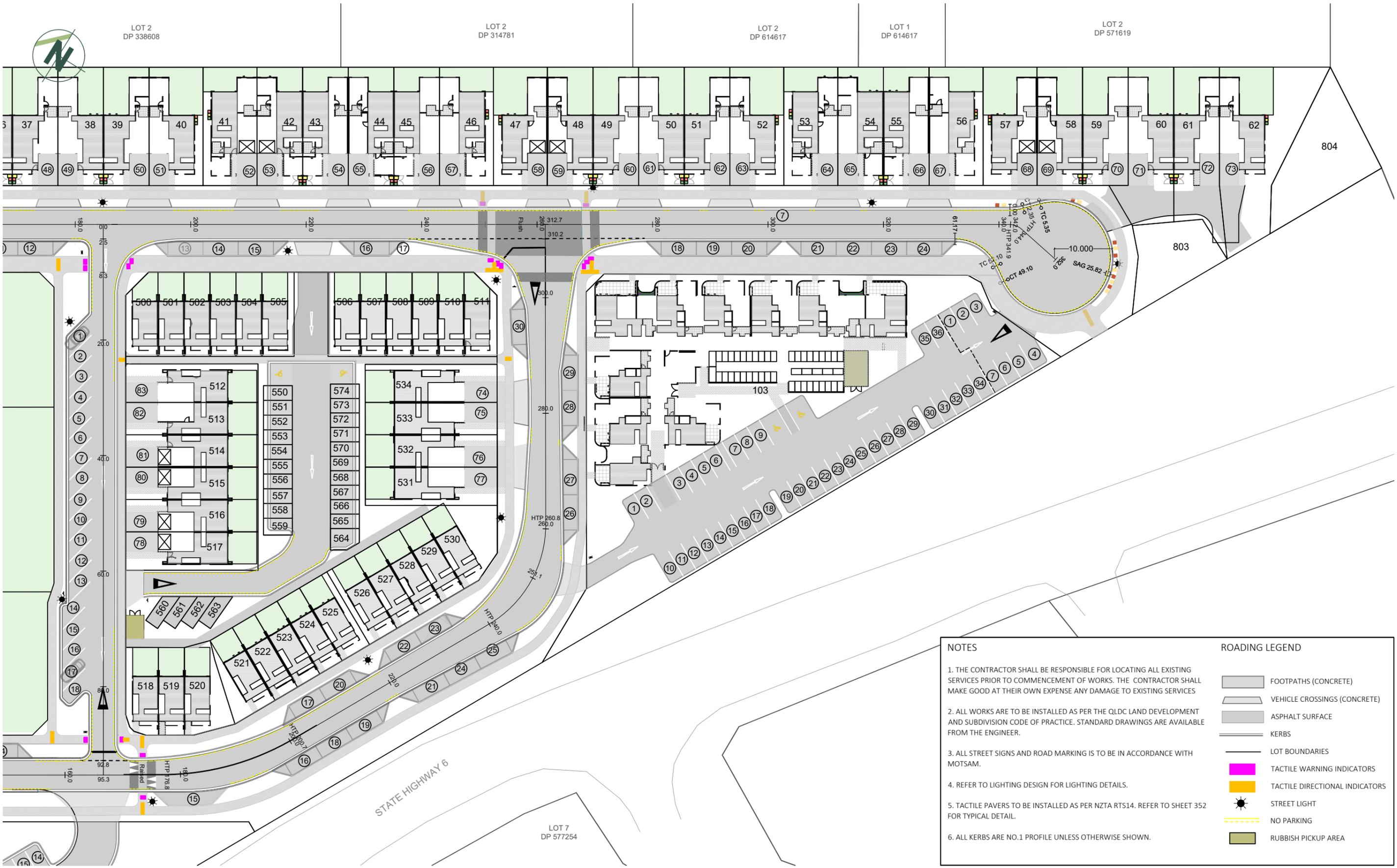
REV DRAWN DATE NOTE  
01 PHJ 20/02/2026 Fast Track Application

STATUS **FOR RESOURCE CONSENT**

SURVEYED LIDAR  
DESIGNED PHJ  
DRAWN SS  
REVIEWED AH  
APPROVED DLW

PROJECT **P240103**  
DRAWING NO **003**  
SHEET **300B**  
REVISION **1**  
SCALE (A3) **1:600**

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**NOTES**

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6. ALL KERBS ARE NO.1 PROFILE UNLESS OTHERWISE SHOWN.

**ROADING LEGEND**

- FOOTPATHS (CONCRETE)
- VEHICLE CROSSINGS (CONCRETE)
- ASPHALT SURFACE
- KERBS
- LOT BOUNDARIES
- TACTILE WARNING INDICATORS
- TACTILE DIRECTIONAL INDICATORS
- STREET LIGHT
- NO PARKING
- RUBBISH PICKUP AREA



CLIENT  
**MT IRON JUNCTION LTD**  
 JUNCTION ROAD, WANAKA

DRAWING TITLE  
**CONSENT ENGINEERING DESIGN**  
**ROADING LAYOUT**  
**SHEET C**

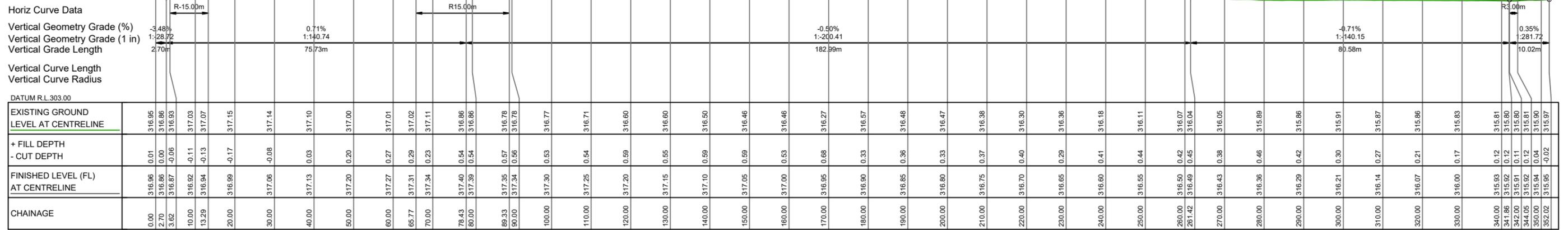
DATUM INFORMATION  
 COORDINATE SYSTEM NZGD 2000  
 LINDIS PEAK CIRCUIT  
 DATUM NZVD2016  
 ORIGIN OF COORDINATES  
 ORIGIN OF LEVELS

REV DRAWN DATE NOTE  
 01 PHJ 20/02/2026 Fast Track Application  
 STATUS **FOR RESOURCE CONSENT**

SURVEYED LIDAR  
 DESIGNED PHJ  
 DRAWN SS  
 REVIEWED AH  
 APPROVED DLW  
 © Paterson Pitts Limited Partnership

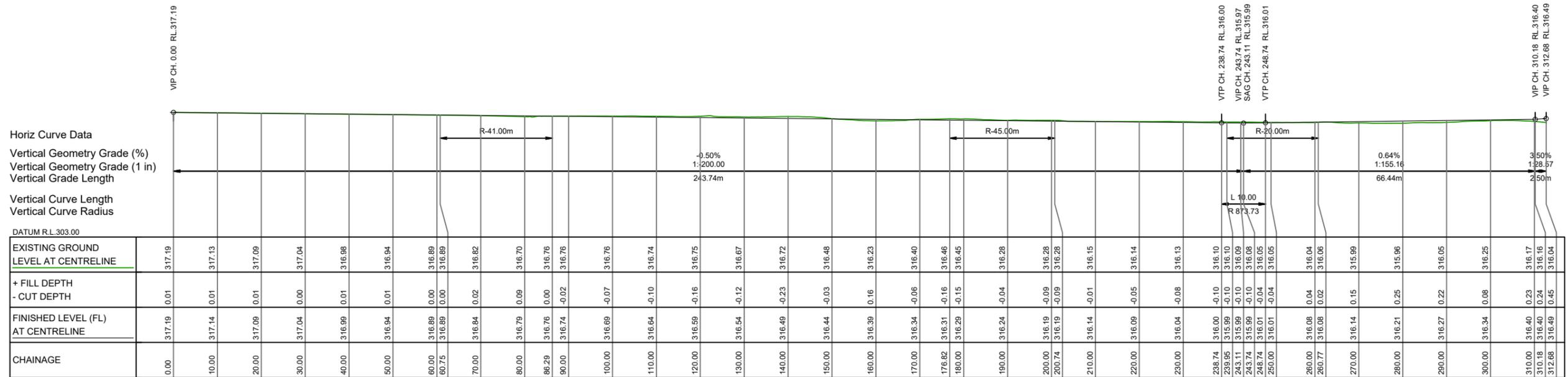
PROJECT **P240103**  
 DRAWING NO **003**  
 SHEET **300C**  
 REVISION **1**  
 SCALE (A3) **1:600**



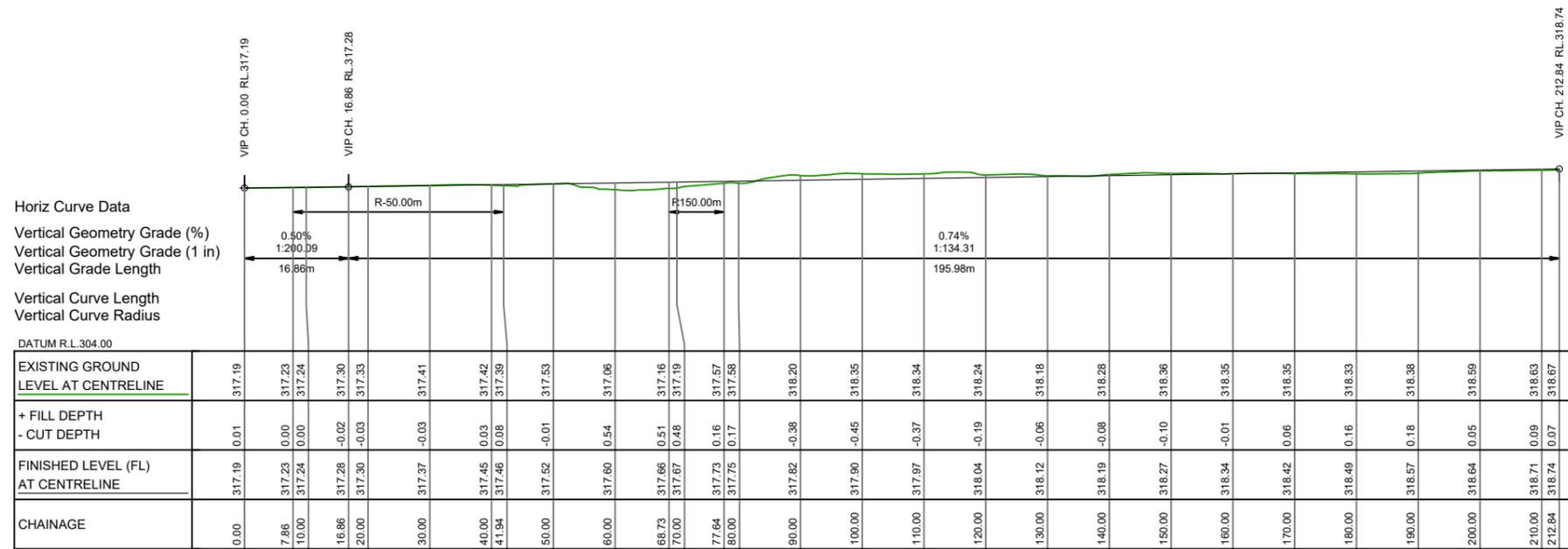


Junction Road Longsection

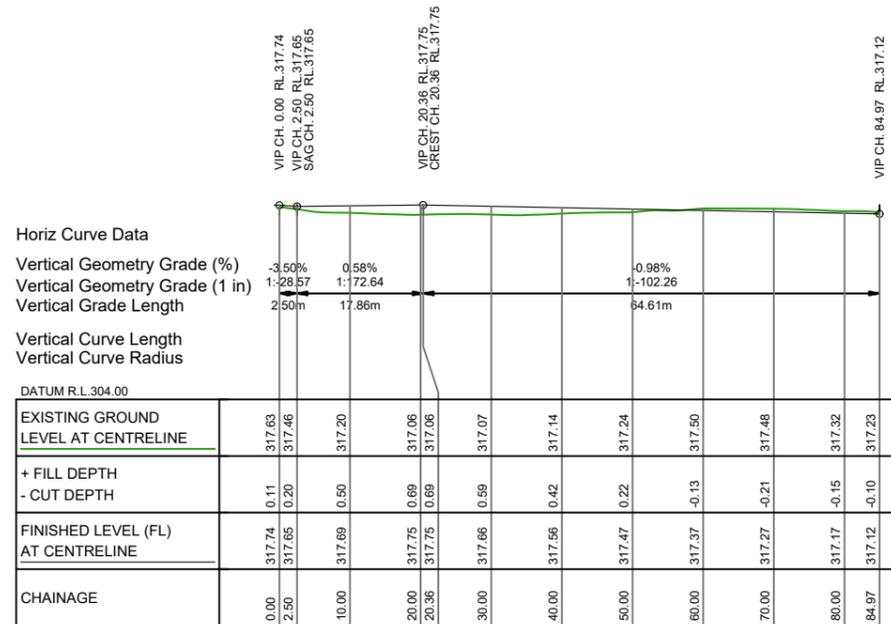
DATUM R.L. 303.00	
EXISTING GROUND LEVEL AT CENTRELINE	316.95
+ FILL DEPTH	0.01
- CUT DEPTH	0.00
FINISHED LEVEL (FL) AT CENTRELINE	316.96
CHAINAGE	0.00
	2.70
	3.62
	10.00
	13.29
	20.00
	30.00
	40.00
	50.00
	60.00
	65.77
	70.00
	78.43
	80.00
	89.33
	90.00
	100.00
	110.00
	120.00
	130.00
	140.00
	150.00
	160.00
	170.00
	180.00
	190.00
	200.00
	210.00
	220.00
	230.00
	240.00
	250.00
	260.00
	261.42
	270.00
	280.00
	290.00
	300.00
	310.00
	320.00
	330.00
	340.00
	341.86
	342.00
	344.05
	350.00
	352.02



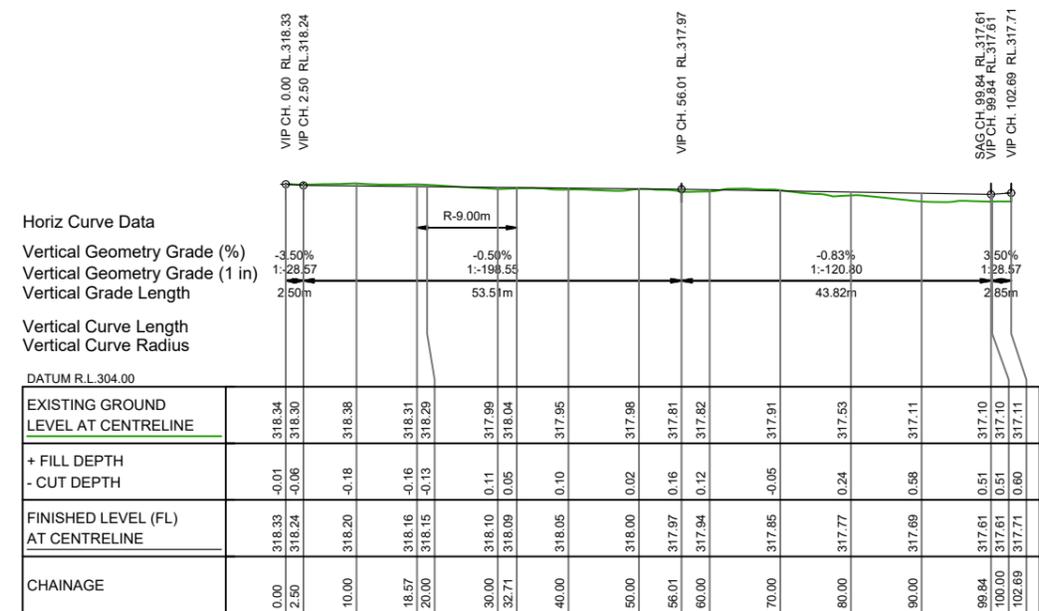
Mountain Road East Longsection



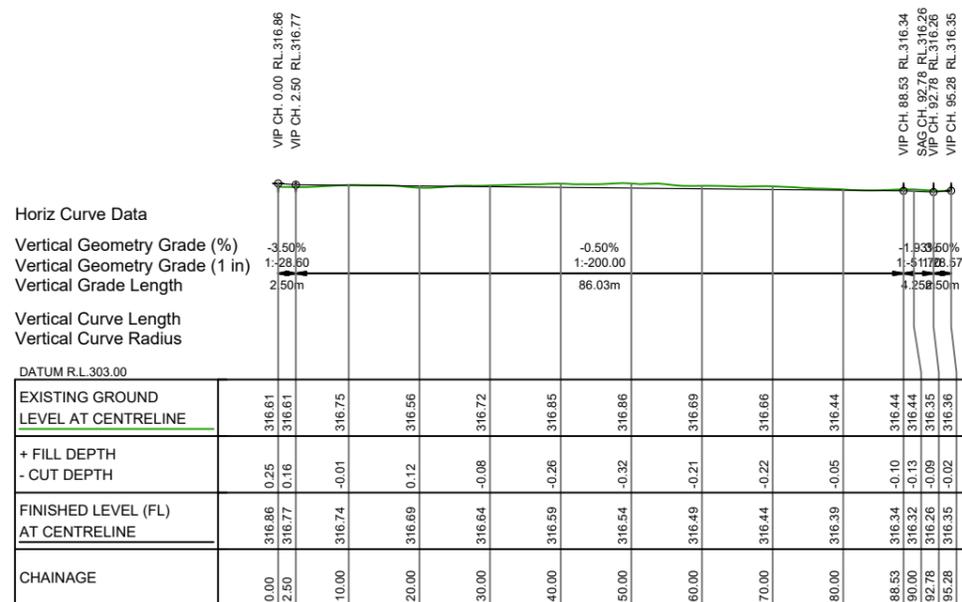
Mountain Road West Longsection



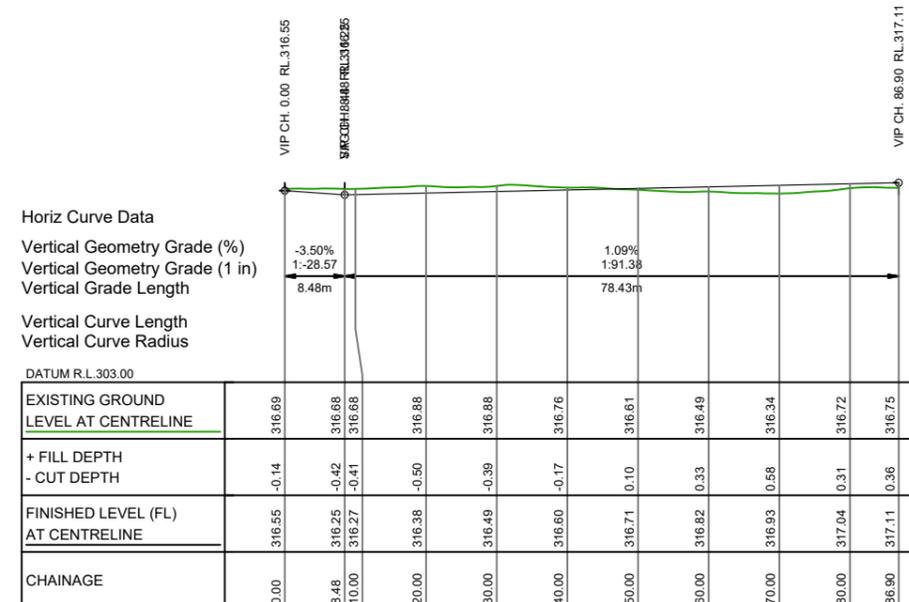
Road 1 Longsection



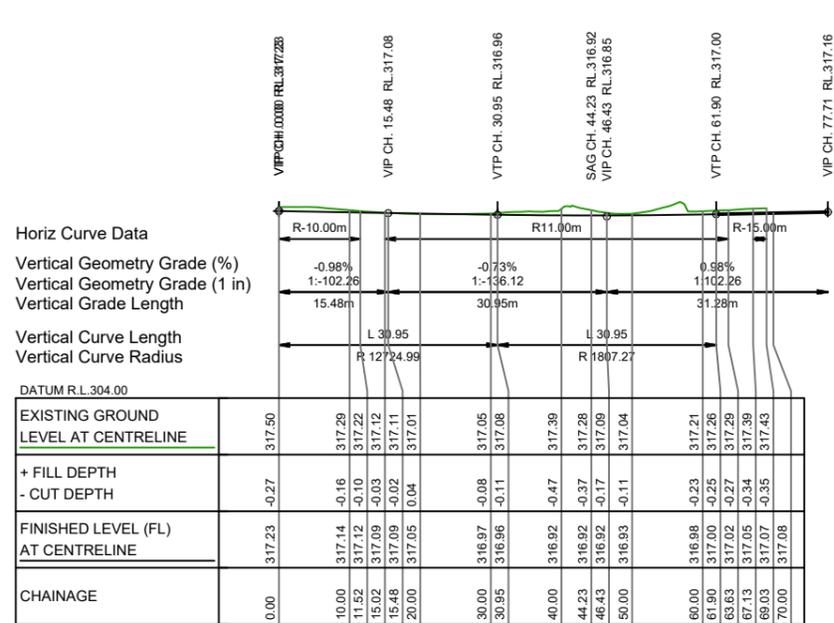
LANE 4 Longsection



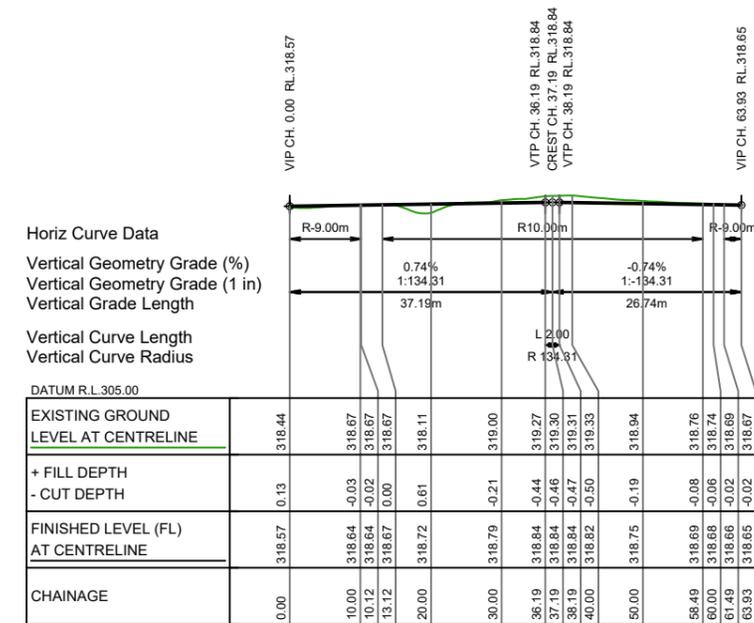
Road 3 Longsection



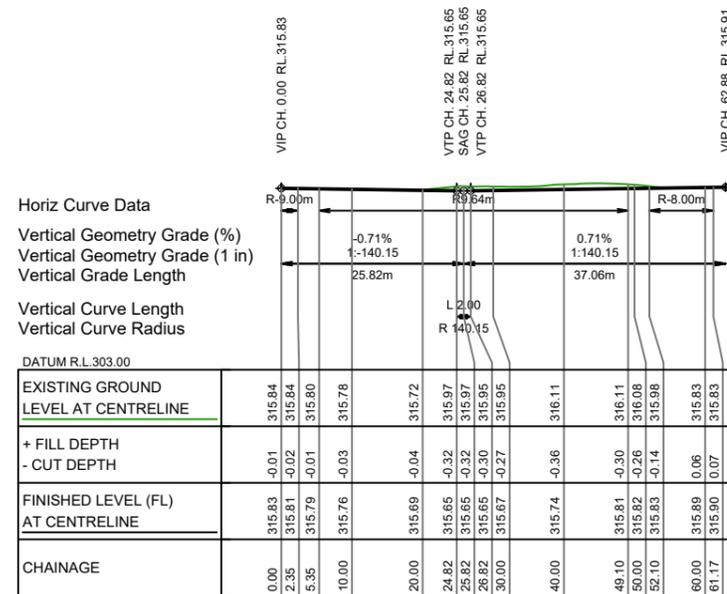
ROAD2 Longsection



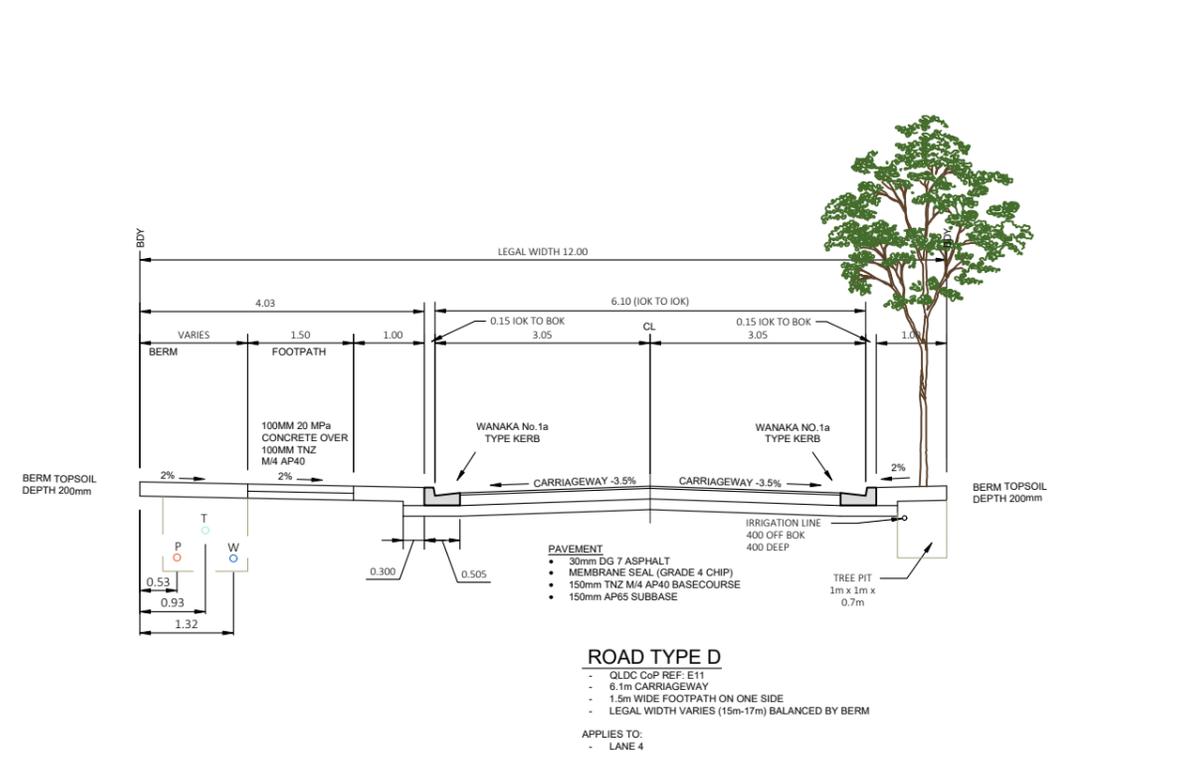
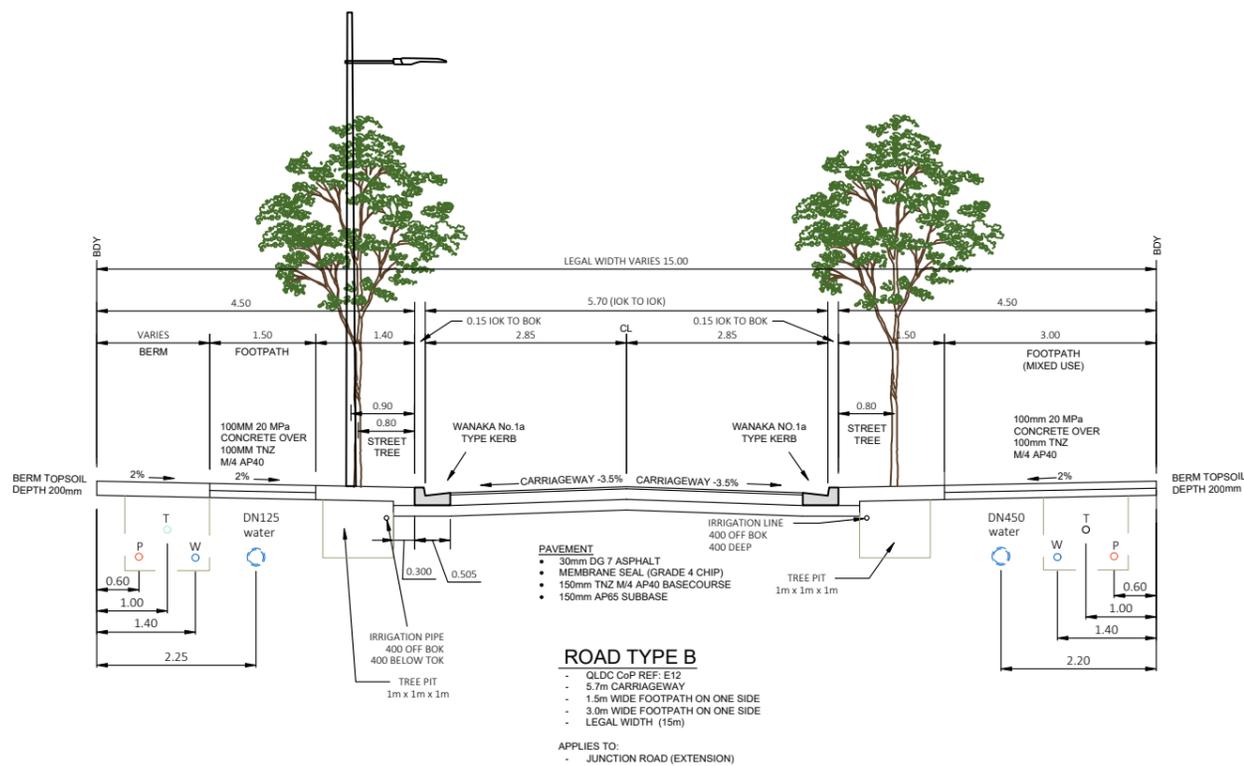
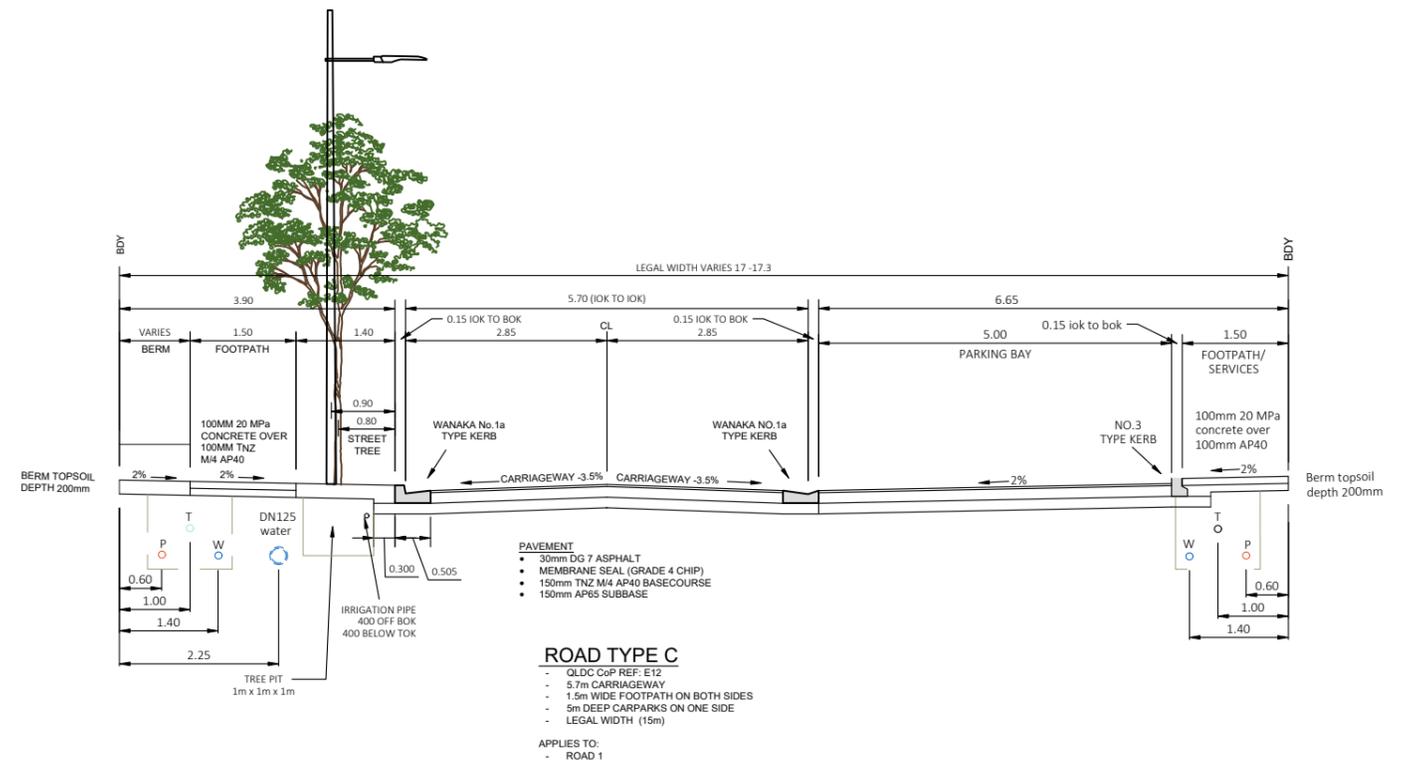
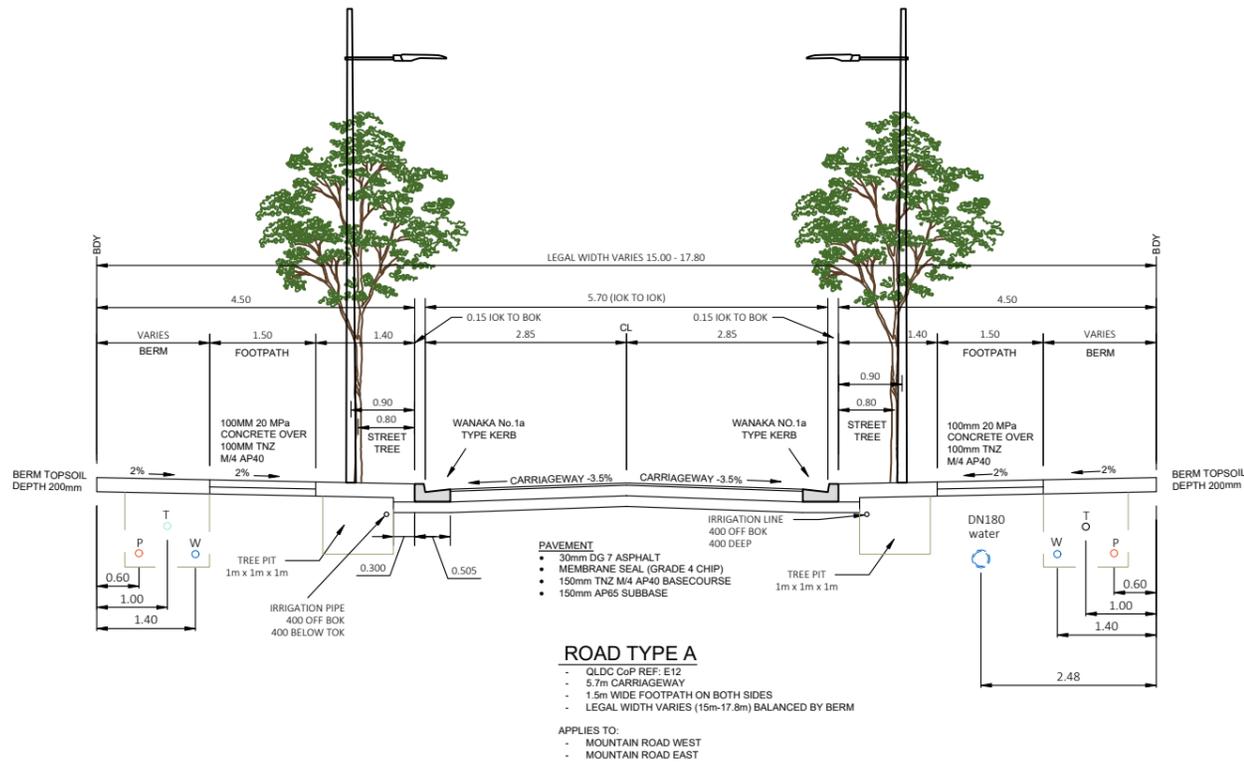
Road 1 Culdesac Kerb line

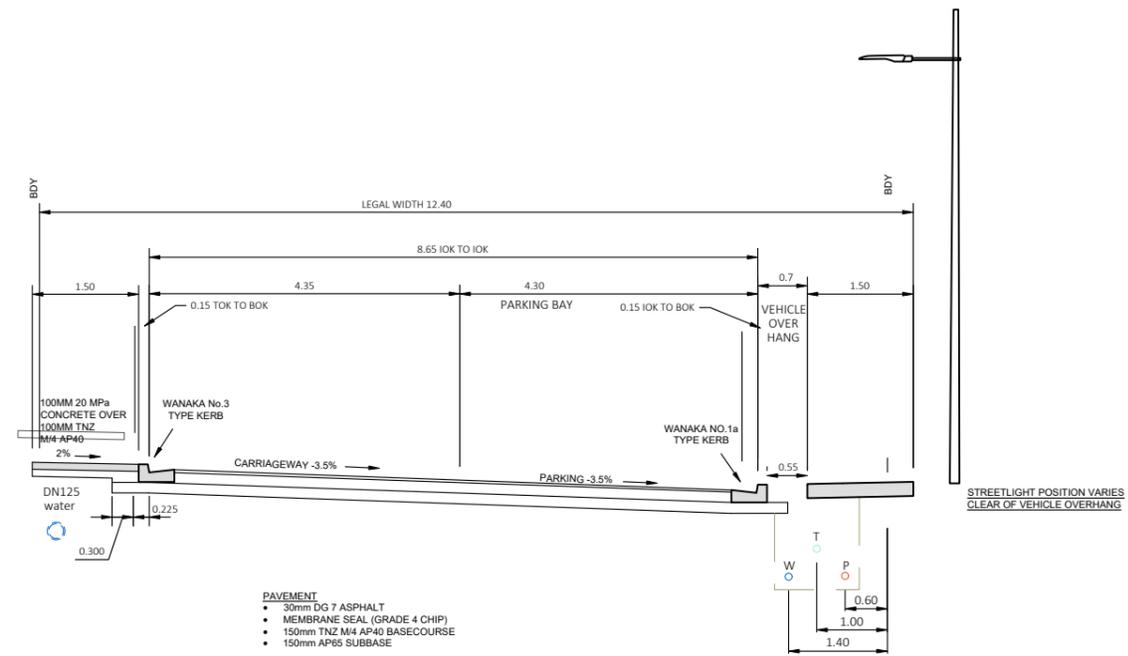


Mountain Road Culdesac Kerbline



Junction Road Culdesac Kerbline

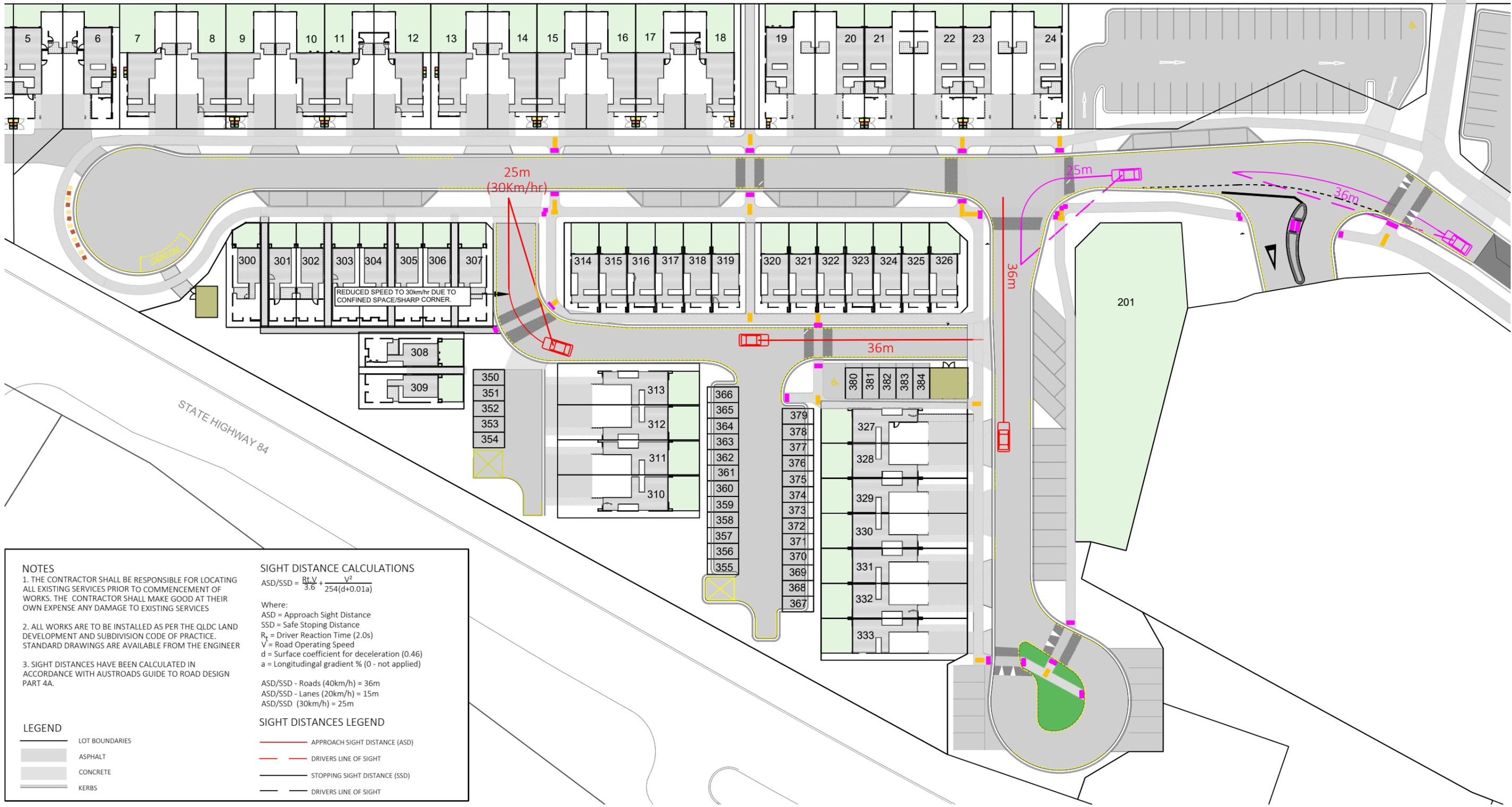




- PAVEMENT**
- 30mm DG 7 ASPHALT
  - MEMBRANE SEAL (GRADE 4 CHIP)
  - 150mm TNZ M4 AP40 BASECOURSE
  - 150mm AP65 SUBBASE

- ROAD TYPE E**
- QLDG C&P REF: E11
  - 4.3m CARRIAGEWAY
  - 1.5m WIDE FOOTPATH ON BOTH SIDES
  - LEGAL WIDTH VARIES (15m-17m) BALANCED BY BERM

- APPLIES TO:**
- ROAD 2
  - ROAD 3



**NOTES**

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2. ALL WORKS ARE TO BE INSTALLED AS PER THE QLDC LAND DEVELOPMENT AND SUBDIVISION CODE OF PRACTICE. STANDARD DRAWINGS ARE AVAILABLE FROM THE ENGINEER
3. SIGHT DISTANCES HAVE BEEN CALCULATED IN ACCORDANCE WITH AUSTRROADS GUIDE TO ROAD DESIGN PART 4A.

**SIGHT DISTANCE CALCULATIONS**

$$ASD/SSD = \frac{Rt \cdot V}{3.6} + \frac{V^2}{254(d+0.01a)}$$

Where:

- ASD = Approach Sight Distance
- SSD = Safe Stopping Distance
- R<sub>t</sub> = Driver Reaction Time (2.0s)
- V = Road Operating Speed
- d = Surface coefficient for deceleration (0.46)
- a = Longitudinal gradient % (0 - not applied)

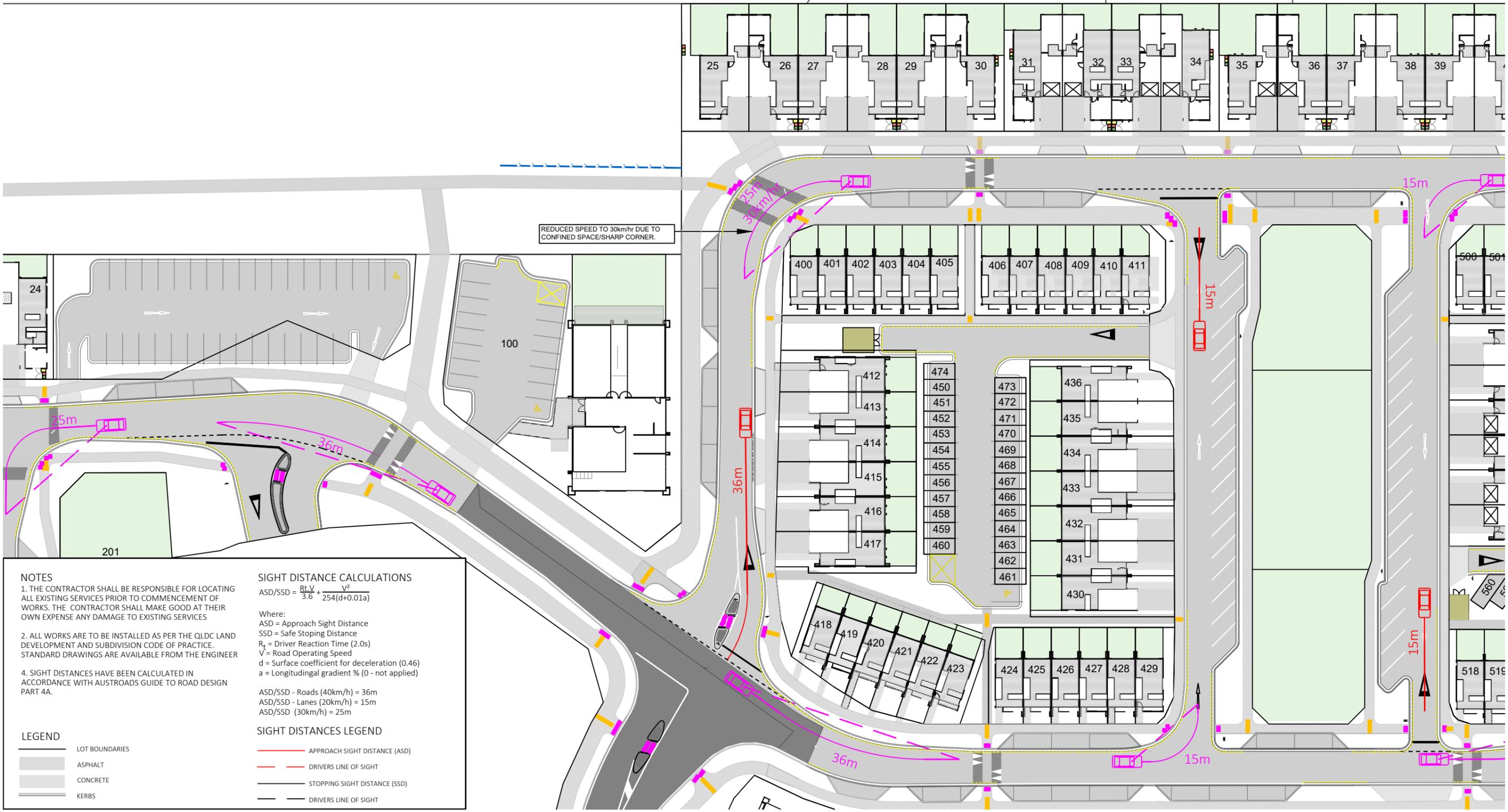
- ASD/SSD - Roads (40km/h) = 36m
- ASD/SSD - Lanes (20km/h) = 15m
- ASD/SSD (30km/h) = 25m

**SIGHT DISTANCES LEGEND**

- APPROACH SIGHT DISTANCE (ASD)
- DRIVERS LINE OF SIGHT
- STOPPING SIGHT DISTANCE (SSD)
- DRIVERS LINE OF SIGHT

**LEGEND**

- LOT BOUNDARIES
- ASPHALT
- CONCRETE
- KERBS



**NOTES**

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 a = Longitudinal gradient % (0 - not applied)

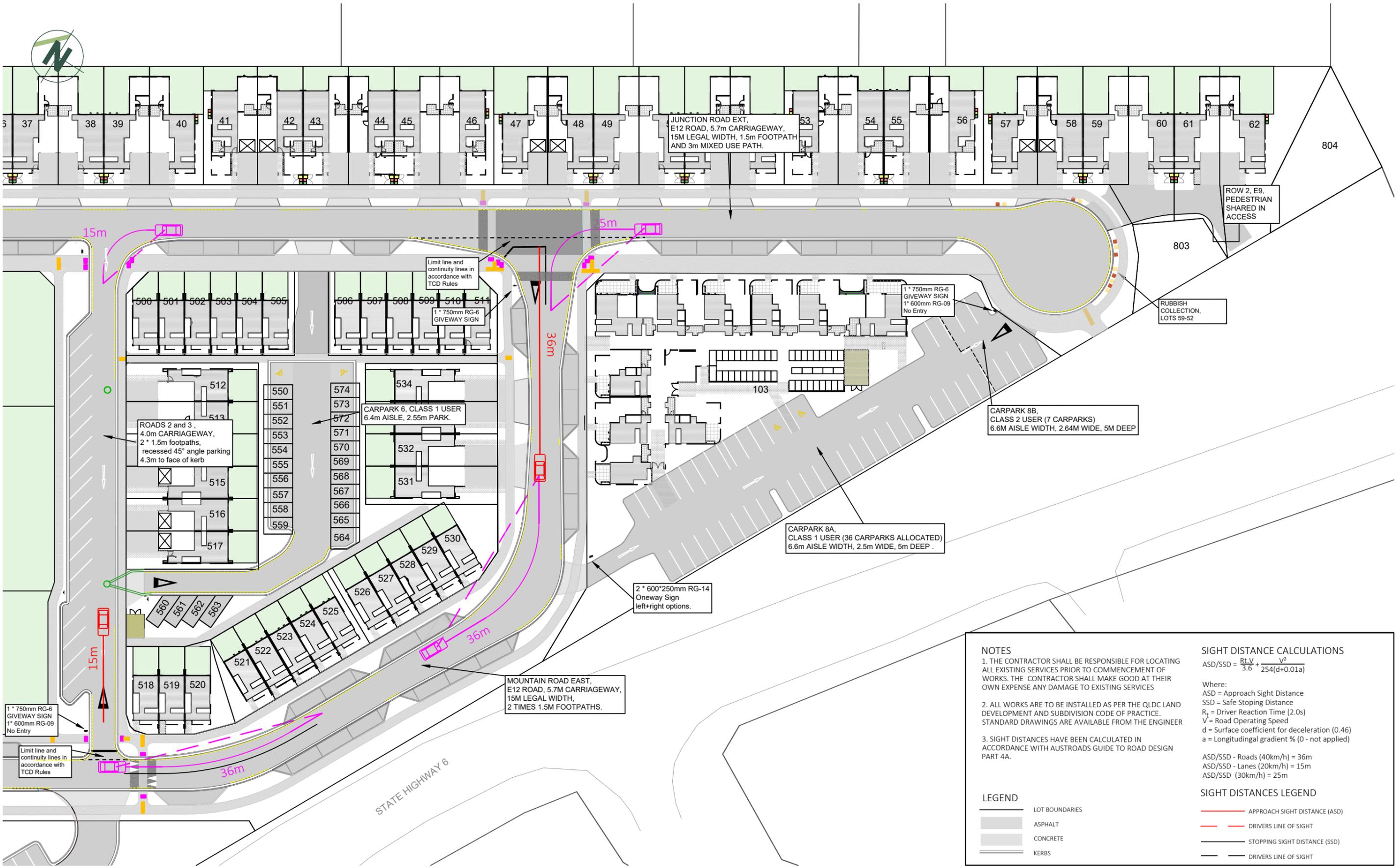
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**SIGHT DISTANCES LEGEND**

- APPROACH SIGHT DISTANCE (ASD)
- DRIVERS LINE OF SIGHT
- STOPPING SIGHT DISTANCE (SSD)
- DRIVERS LINE OF SIGHT

**LEGEND**

- LOT BOUNDARIES
- ASPHALT
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- KERBS



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**SIGHT DISTANCE CALCULATIONS**

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 ASD = Approach Sight Distance  
 SSD = Safe Stopping Distance  
 R<sub>t</sub> = Driver Reaction Time (2.0s)  
 V = Road Operating Speed  
 d = Surface coefficient for deceleration (0.46)  
 a = Longitudinal gradient % (0 - not applied)

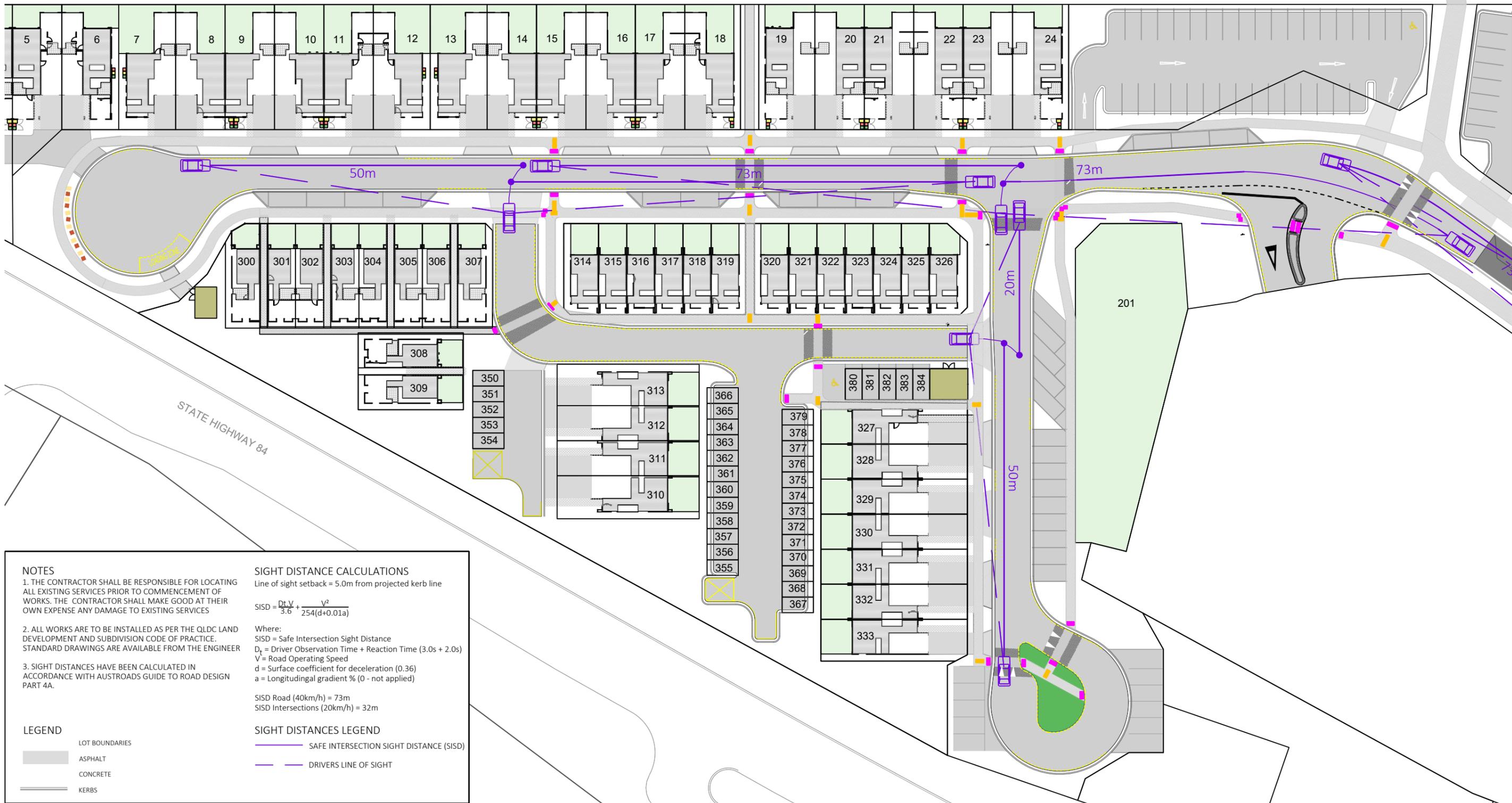
ASD/SSD - Roads (40km/h) = 36m  
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 ASD/SSD (30km/h) = 25m

**SIGHT DISTANCES LEGEND**

- APPROACH SIGHT DISTANCE (ASD)
- DRIVERS LINE OF SIGHT
- STOPPING SIGHT DISTANCE (SSD)
- DRIVERS LINE OF SIGHT

**LEGEND**

- LOT BOUNDARIES
- ASPHALT
- CONCRETE
- KERBS



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3. SIGHT DISTANCES HAVE BEEN CALCULATED IN ACCORDANCE WITH AUSTRROADS GUIDE TO ROAD DESIGN PART 4A.

**LEGEND**

- LOT BOUNDARIES
- ASPHALT
- CONCRETE
- KERBS

**SIGHT DISTANCE CALCULATIONS**  
Line of sight setback = 5.0m from projected kerb line

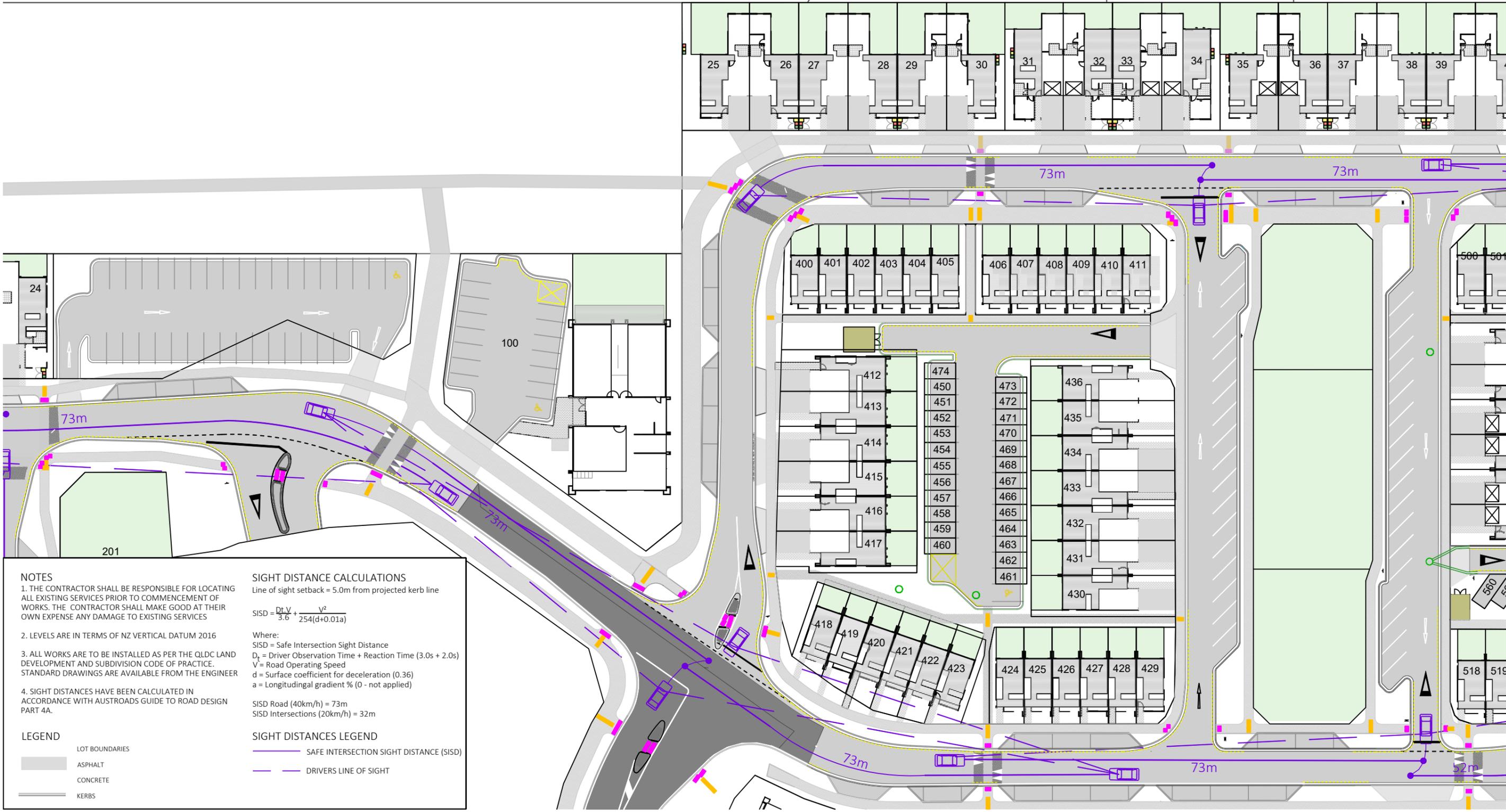
$$SISD = \frac{D_r V}{3.6} + \frac{V^2}{254(d+0.01a)}$$

Where:  
 SISD = Safe Intersection Sight Distance  
 D<sub>r</sub> = Driver Observation Time + Reaction Time (3.0s + 2.0s)  
 V = Road Operating Speed  
 d = Surface coefficient for deceleration (0.36)  
 a = Longitudinal gradient % (0 - not applied)

SISD Road (40km/h) = 73m  
 SISD Intersections (20km/h) = 32m

**SIGHT DISTANCES LEGEND**

- SAFE INTERSECTION SIGHT DISTANCE (SISD)
- DRIVERS LINE OF SIGHT



**NOTES**

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING ALL EXISTING SERVICES PRIOR TO COMMENCEMENT OF WORKS. THE CONTRACTOR SHALL MAKE GOOD AT THEIR OWN EXPENSE ANY DAMAGE TO EXISTING SERVICES
2. LEVELS ARE IN TERMS OF NZ VERTICAL DATUM 2016
3. ALL WORKS ARE TO BE INSTALLED AS PER THE QLDC LAND DEVELOPMENT AND SUBDIVISION CODE OF PRACTICE. STANDARD DRAWINGS ARE AVAILABLE FROM THE ENGINEER
4. SIGHT DISTANCES HAVE BEEN CALCULATED IN ACCORDANCE WITH AUSTRROADS GUIDE TO ROAD DESIGN PART 4A.

**LEGEND**

- LOT BOUNDARIES
- ASPHALT
- CONCRETE
- KERBS

**SIGHT DISTANCE CALCULATIONS**  
Line of sight setback = 5.0m from projected kerb line

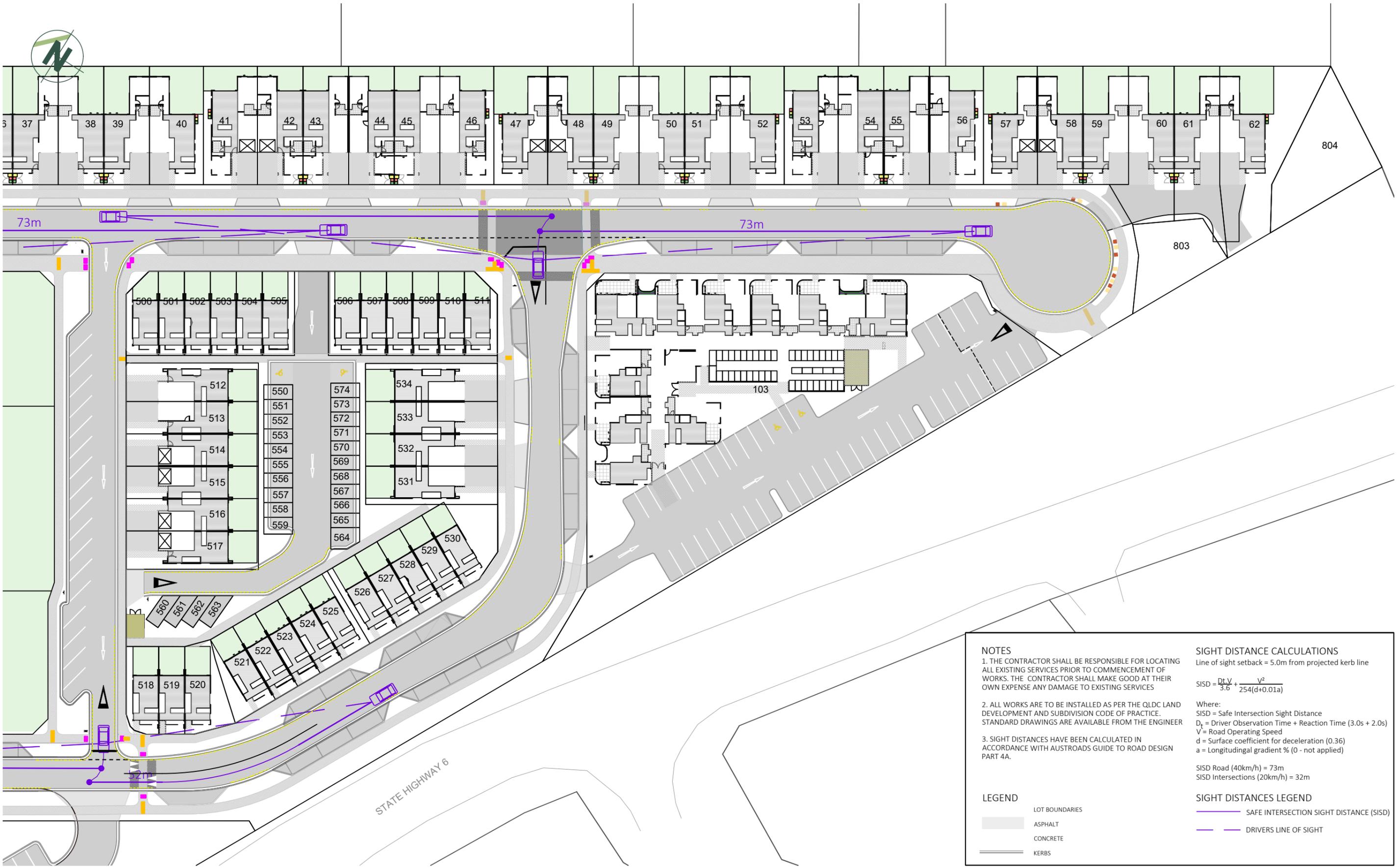
$$SID = \frac{D_r V}{3.6} + \frac{V^2}{254(d+0.01a)}$$

Where:  
 SID = Safe Intersection Sight Distance  
 D<sub>r</sub> = Driver Observation Time + Reaction Time (3.0s + 2.0s)  
 V = Road Operating Speed  
 d = Surface coefficient for deceleration (0.36)  
 a = Longitudinal gradient % (0 - not applied)

SID Road (40km/h) = 73m  
 SID Intersections (20km/h) = 32m

**SIGHT DISTANCES LEGEND**

- SAFE INTERSECTION SIGHT DISTANCE (SID)
- DRIVERS LINE OF SIGHT



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3. SIGHT DISTANCES HAVE BEEN CALCULATED IN ACCORDANCE WITH AUSTRROADS GUIDE TO ROAD DESIGN PART 4A.

**LEGEND**

- LOT BOUNDARIES
- ASPHALT
- CONCRETE
- KERBS

**SIGHT DISTANCE CALCULATIONS**

Line of sight setback = 5.0m from projected kerb line

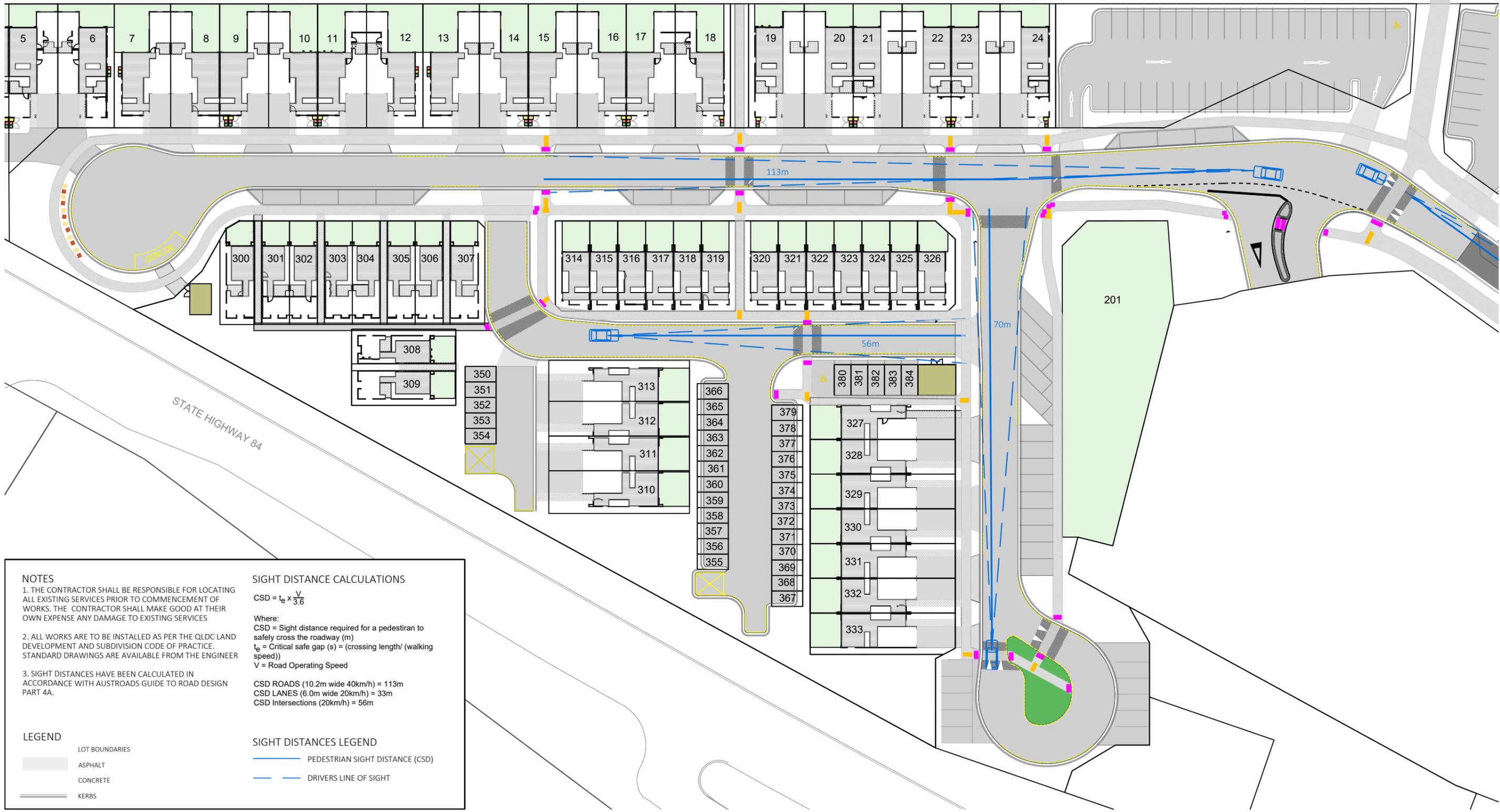
$$SISD = \frac{D_r V}{3.6} + \frac{V^2}{254(d+0.01a)}$$

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 a = Longitudinal gradient % (0 - not applied)

SISD Road (40km/h) = 73m  
 SISD Intersections (20km/h) = 32m

**SIGHT DISTANCES LEGEND**

- SAFE INTERSECTION SIGHT DISTANCE (SISD)
- DRIVERS LINE OF SIGHT



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3. SIGHT DISTANCES HAVE BEEN CALCULATED IN ACCORDANCE WITH AUSTRROADS GUIDE TO ROAD DESIGN PART 4A.

**LEGEND**

- LOT BOUNDARIES
- ASPHALT
- CONCRETE
- KERBS

**SIGHT DISTANCE CALCULATIONS**

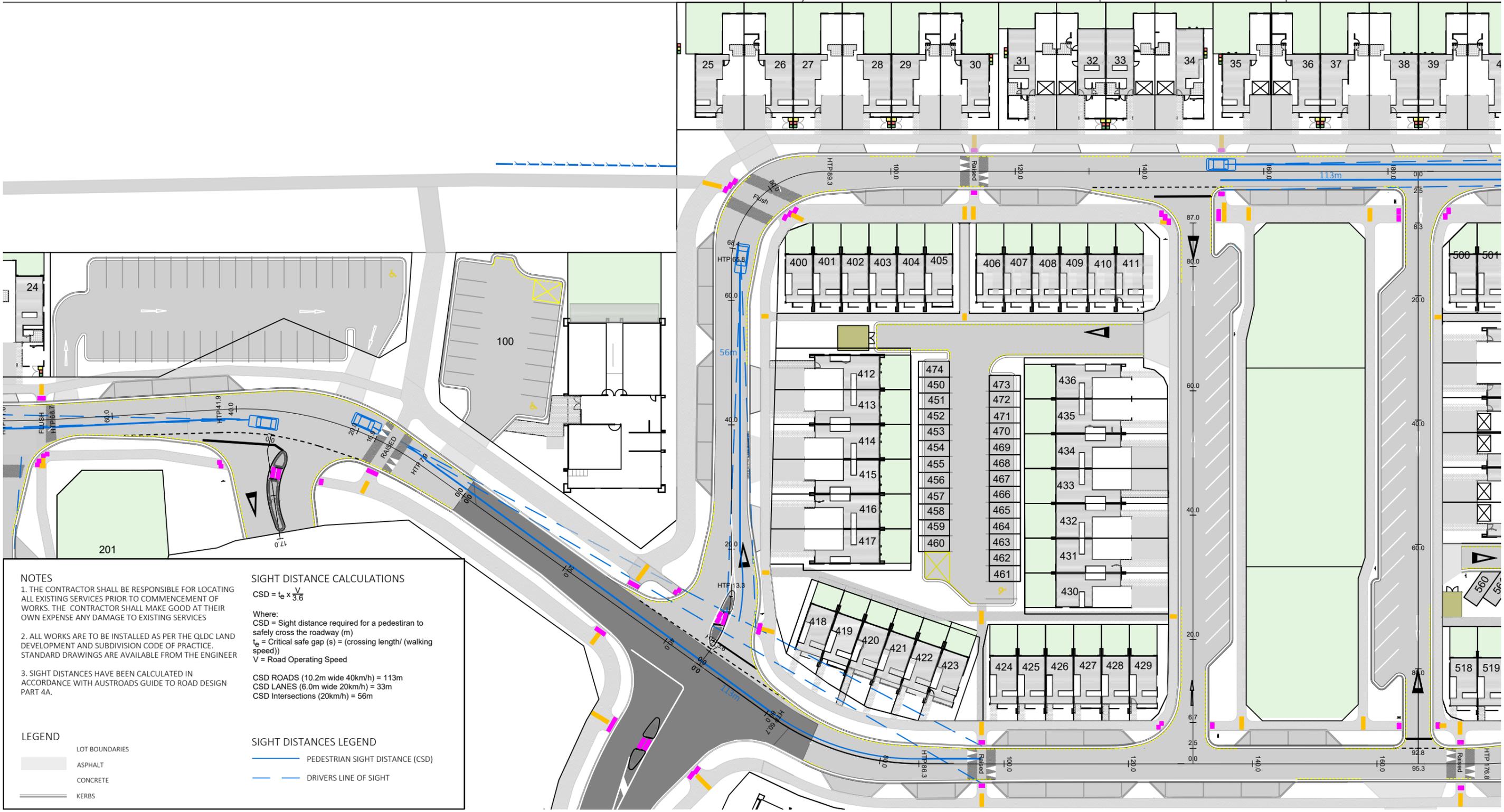
$$CSD = t_e \times \frac{V}{3.6}$$

Where:  
 CSD = Sight distance required for a pedestrian to safely cross the roadway (m)  
 $t_e$  = Critical safe gap (s) = (crossing length/ (walking speed))  
 V = Road Operating Speed

CSD ROADS (10.2m wide 40km/h) = 113m  
 CSD LANES (6.0m wide 20km/h) = 33m  
 CSD Intersections (20km/h) = 56m

**SIGHT DISTANCES LEGEND**

- PEDESTRIAN SIGHT DISTANCE (CSD)
- DRIVERS LINE OF SIGHT



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**SIGHT DISTANCE CALCULATIONS**

$$CSD = t_e \times \frac{V}{3.6}$$

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 CSD = Sight distance required for a pedestrian to safely cross the roadway (m)  
 $t_e$  = Critical safe gap (s) = (crossing length/ (walking speed))  
 V = Road Operating Speed

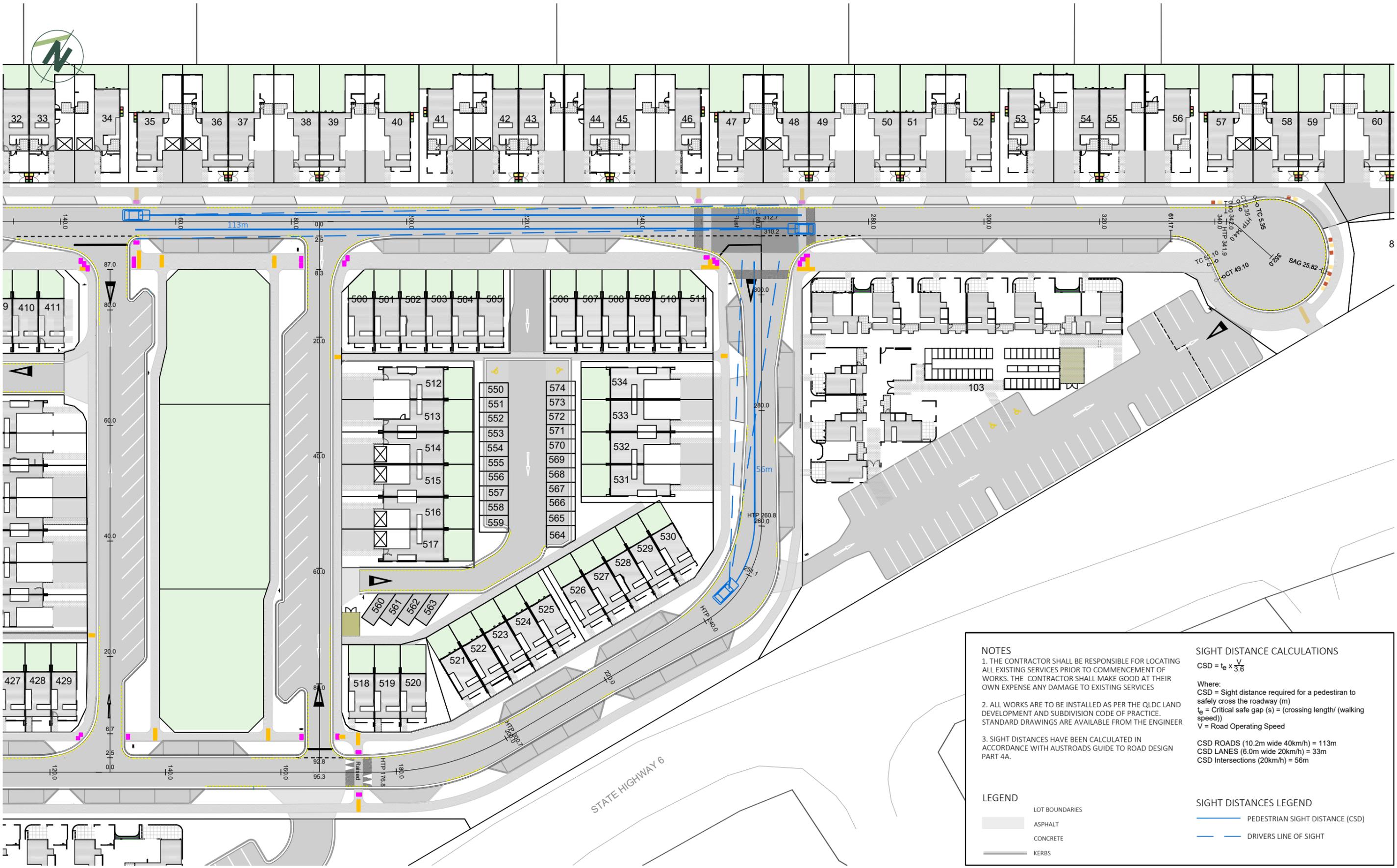
CSD ROADS (10.2m wide 40km/h) = 113m  
 CSD LANES (6.0m wide 20km/h) = 33m  
 CSD Intersections (20km/h) = 56m

**LEGEND**

- LOT BOUNDARIES
- ASPHALT
- CONCRETE
- KERBS

**SIGHT DISTANCES LEGEND**

- PEDESTRIAN SIGHT DISTANCE (CSD)
- DRIVERS LINE OF SIGHT



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**LEGEND**

- LOT BOUNDARIES
- ASPHALT
- CONCRETE
- KERBS

**SIGHT DISTANCE CALCULATIONS**

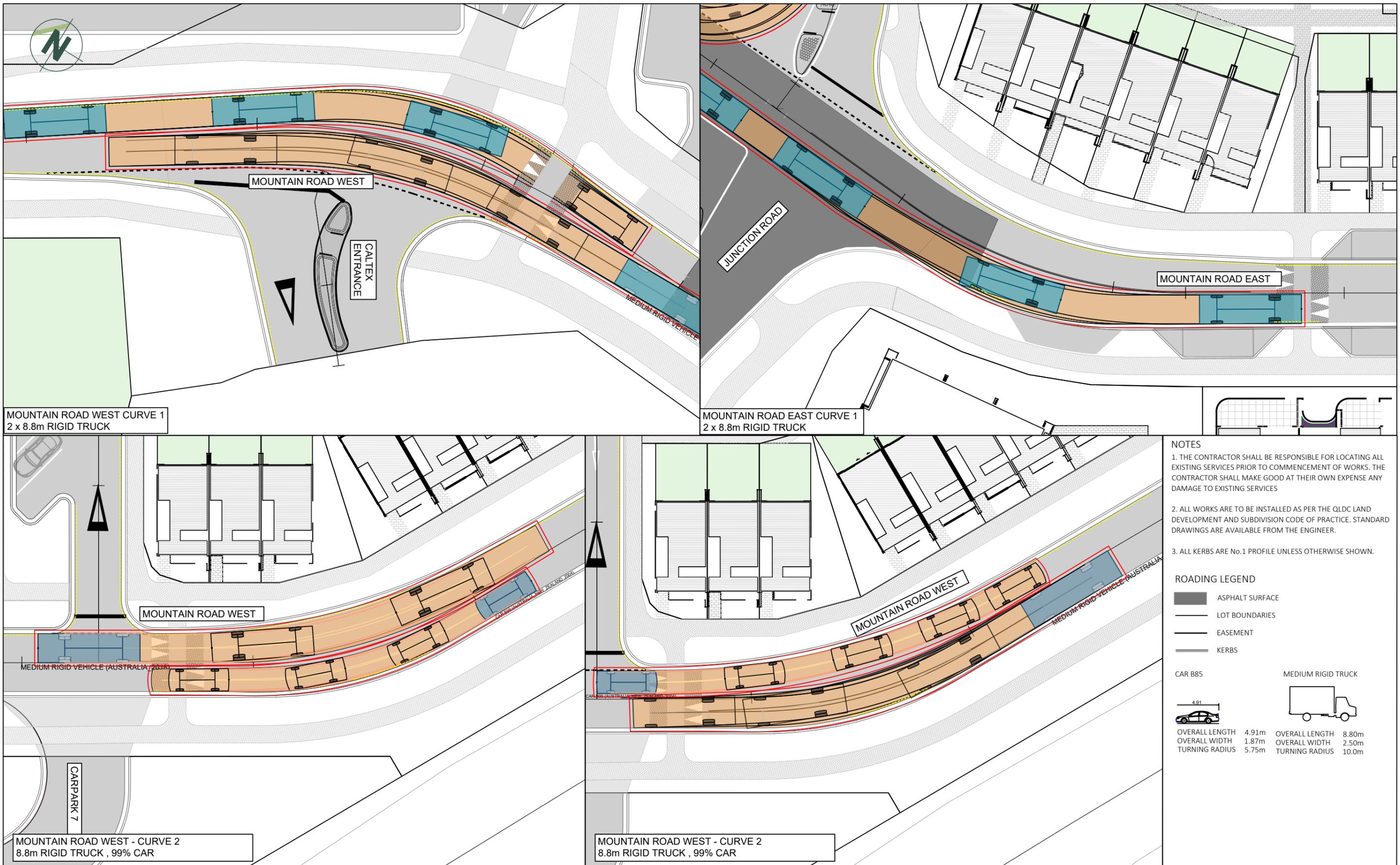
$$CSD = t_e \times \frac{V}{3.6}$$

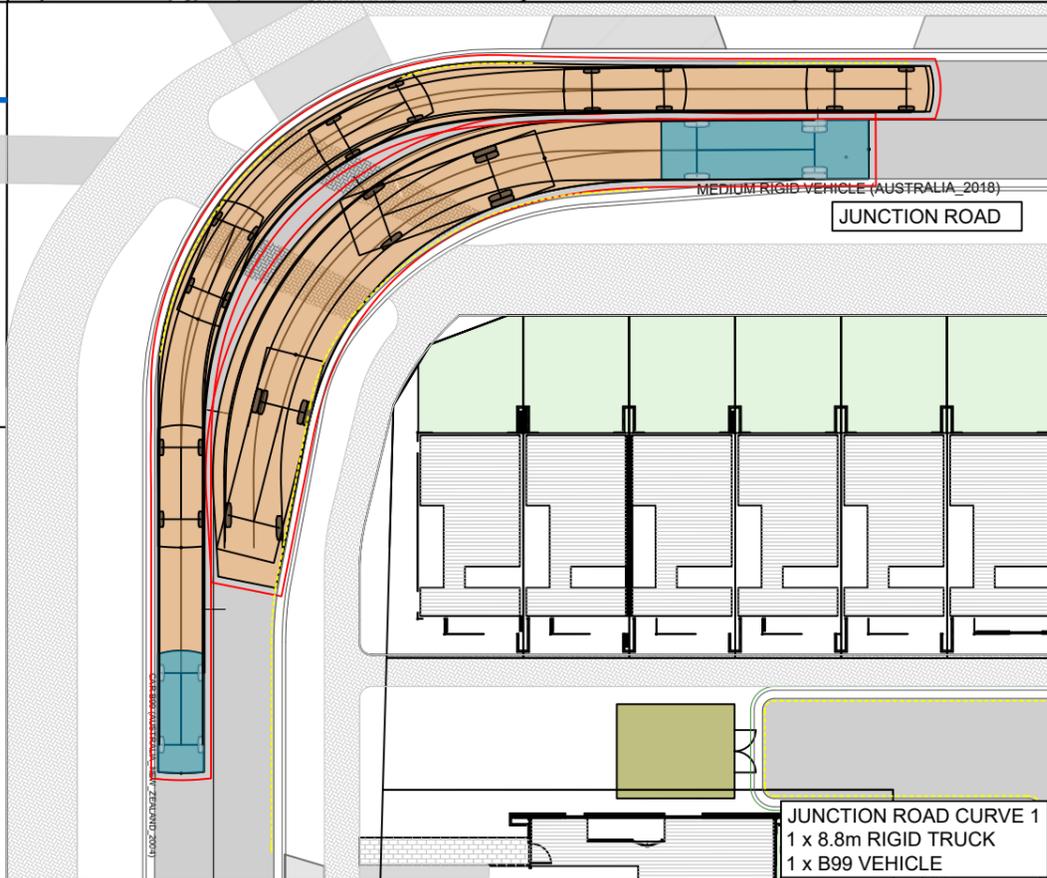
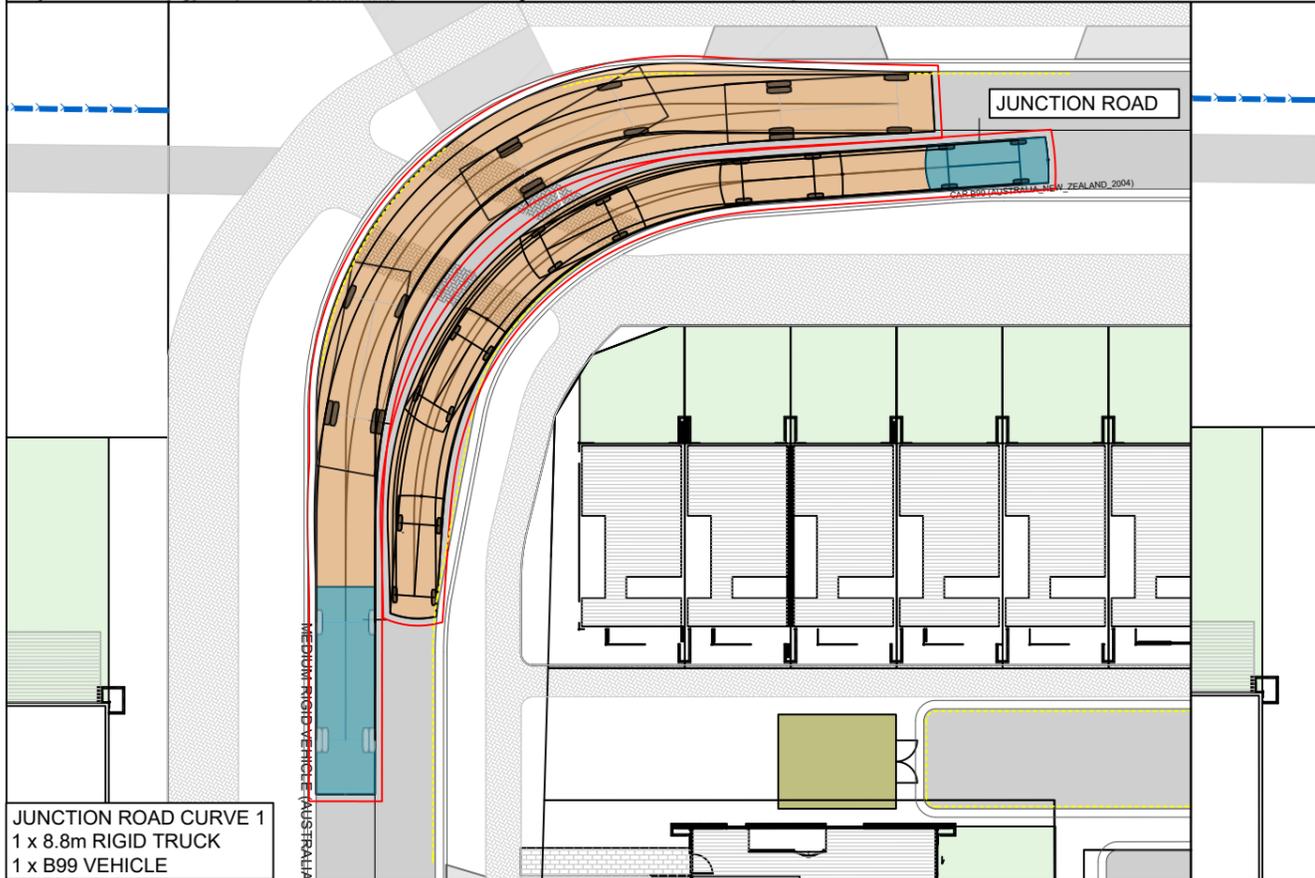
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 $t_e$  = Critical safe gap (s) = (crossing length/ (walking speed))  
 V = Road Operating Speed

CSD ROADS (10.2m wide 40km/h) = 113m  
 CSD LANES (6.0m wide 20km/h) = 33m  
 CSD Intersections (20km/h) = 56m

**SIGHT DISTANCES LEGEND**

- PEDESTRIAN SIGHT DISTANCE (CSD)
- DRIVERS LINE OF SIGHT





**NOTES**

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3. ALL KERBS ARE No.1 PROFILE UNLESS OTHERWISE SHOWN.

**ROADING LEGEND**

- ASPHALT SURFACE
- LOT BOUNDARIES
- EASEMENT
- KERBS

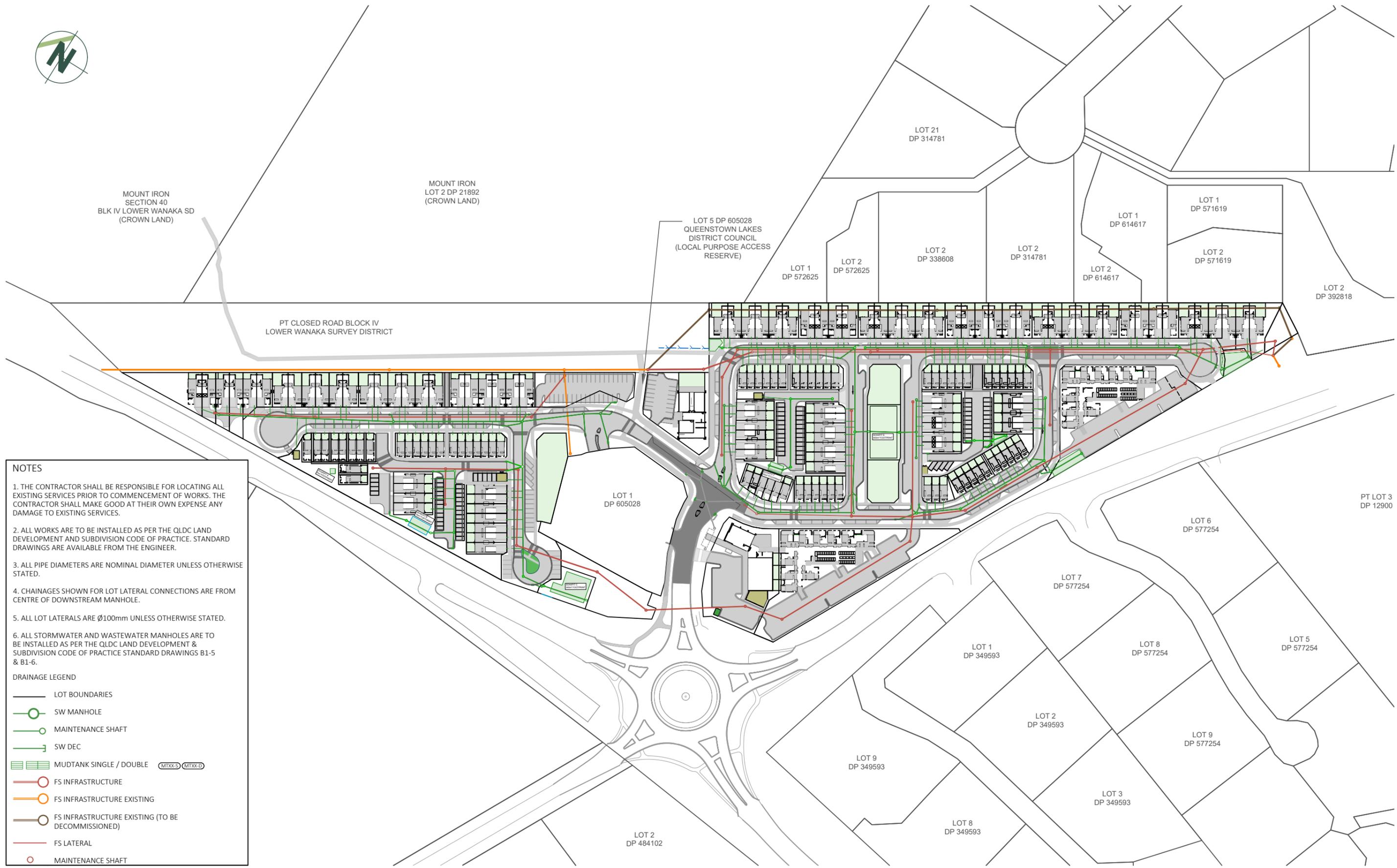
**CAR B85**

4.91m

OVERALL LENGTH 4.91m  
OVERALL WIDTH 1.87m  
TURNING RADIUS 5.75m

**MEDIUM RIGID TRUCK**

OVERALL LENGTH 8.80m  
OVERALL WIDTH 2.50m  
TURNING RADIUS 10.0m

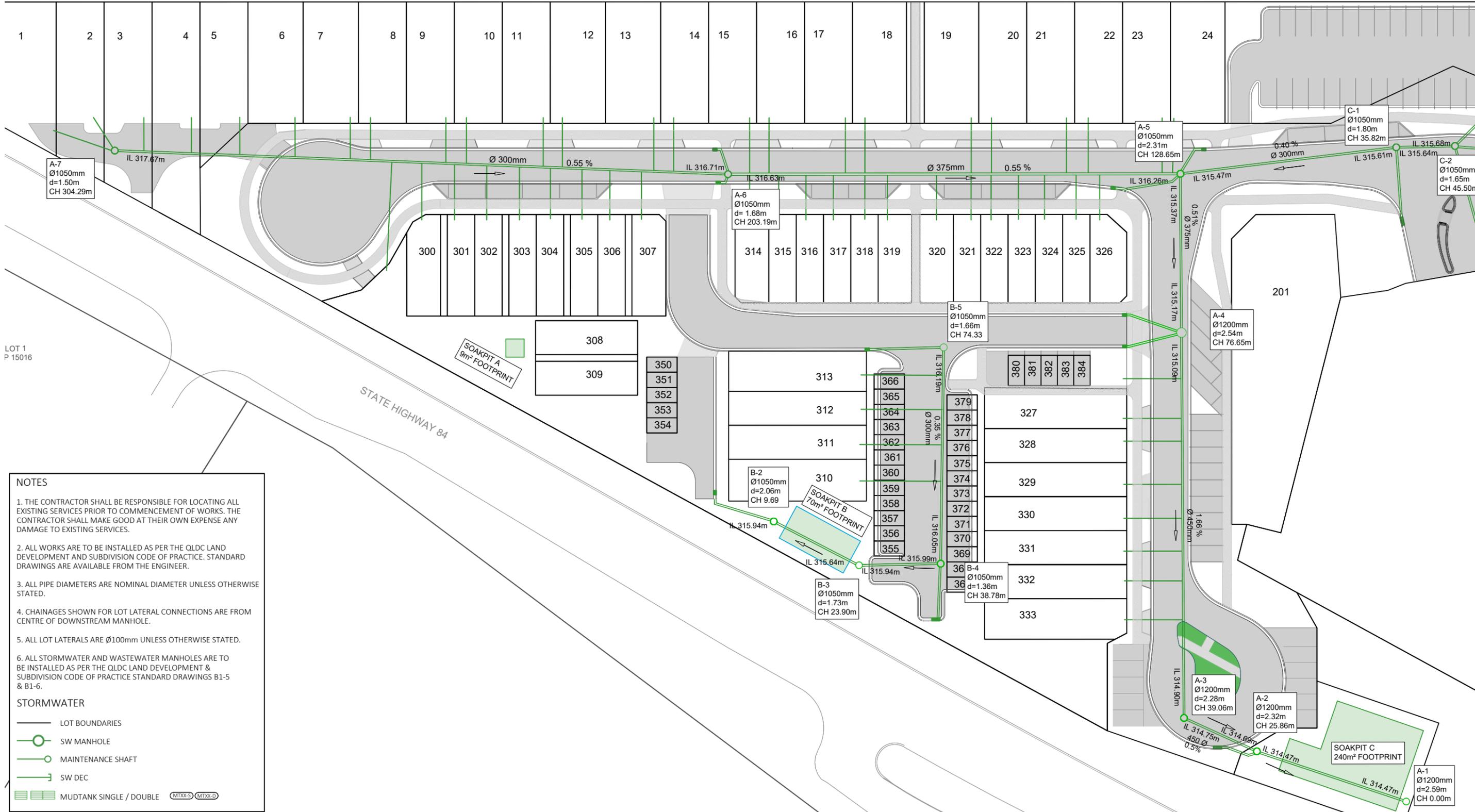


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3. ALL PIPE DIAMETERS ARE NOMINAL DIAMETER UNLESS OTHERWISE STATED.
4. CHAINAGES SHOWN FOR LOT LATERAL CONNECTIONS ARE FROM CENTRE OF DOWNSTREAM MANHOLE.
5. ALL LOT LATERALS ARE  $\varnothing 100\text{mm}$  UNLESS OTHERWISE STATED.
6. ALL STORMWATER AND WASTEWATER MANHOLES ARE TO BE INSTALLED AS PER THE QLDC LAND DEVELOPMENT & SUBDIVISION CODE OF PRACTICE STANDARD DRAWINGS B1-5 & B1-6.

**DRAINAGE LEGEND**

- LOT BOUNDARIES
- SW MANHOLE
- MAINTENANCE SHAFT
- SW DEC
- ▨ MUDTANK SINGLE / DOUBLE (MTXX-S) (MTXX-D)
- FS INFRASTRUCTURE
- FS INFRASTRUCTURE EXISTING
- FS INFRASTRUCTURE EXISTING (TO BE DECOMMISSIONED)
- FS LATERAL
- MAINTENANCE SHAFT



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**STORMWATER**

- LOT BOUNDARIES
- SW MANHOLE
- MAINTENANCE SHAFT
- SW DEC
- ▨ MUDTANK SINGLE / DOUBLE (MTXX-S) (MTXX-D)



CLIENT  
**MT IRON JUNCTION LTD**  
JUNCTION ROAD, WANAKA

DRAWING TITLE  
**CONSENT ENGINEERING DESIGN**  
**STORMWATER LAYOUT**  
**SHEET A**

DATUM INFORMATION  
COORDINATE SYSTEM NZGD 2000  
LINDIS PEAK CIRCUIT  
DATUM NZVD2016  
ORIGIN OF COORDINATES  
ORIGIN OF LEVELS

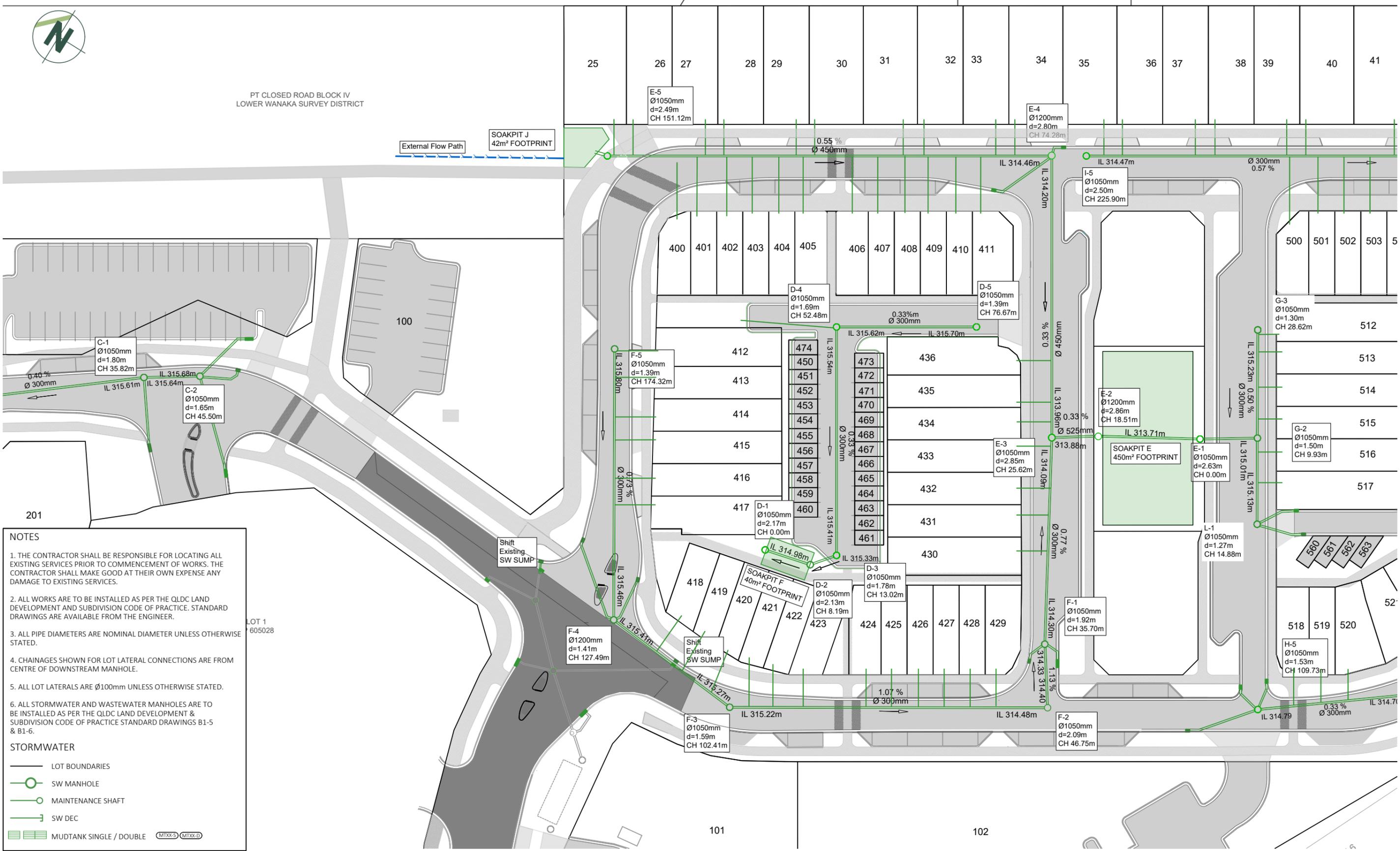
REV DRAWN DATE NOTE  
01 PHJ 20/02/2026 Fast Track Application  
STATUS **FOR RESOURCE CONSENT**

SURVEYED LIDAR  
DESIGNED PHJ  
DRAWN SS  
REVIEWED AH  
APPROVED DLW  
© Paterson Pitts Limited Partnership

PROJECT **P240103**  
DRAWING NO **003**  
SHEET **400A**  
REVISION **1**  
SCALE (A3) **1:600**



PT CLOSED ROAD BLOCK IV  
LOWER WANAKA SURVEY DISTRICT



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3. ALL PIPE DIAMETERS ARE NOMINAL DIAMETER UNLESS OTHERWISE STATED.
4. CHAINAGES SHOWN FOR LOT LATERAL CONNECTIONS ARE FROM CENTRE OF DOWNSTREAM MANHOLE.
5. ALL LOT LATERALS ARE Ø100mm UNLESS OTHERWISE STATED.
6. ALL STORMWATER AND WASTEWATER MANHOLES ARE TO BE INSTALLED AS PER THE QLDC LAND DEVELOPMENT & SUBDIVISION CODE OF PRACTICE STANDARD DRAWINGS B1-5 & B1-6.

**STORMWATER**

- LOT BOUNDARIES
- SW MANHOLE
- MAINTENANCE SHAFT
- SW DEC
- ▨ MUDTANK SINGLE / DOUBLE (MTXX-S) (MTXX-D)



CLIENT  
**MT IRON JUNCTION LTD**  
JUNCTION ROAD, WANAKA

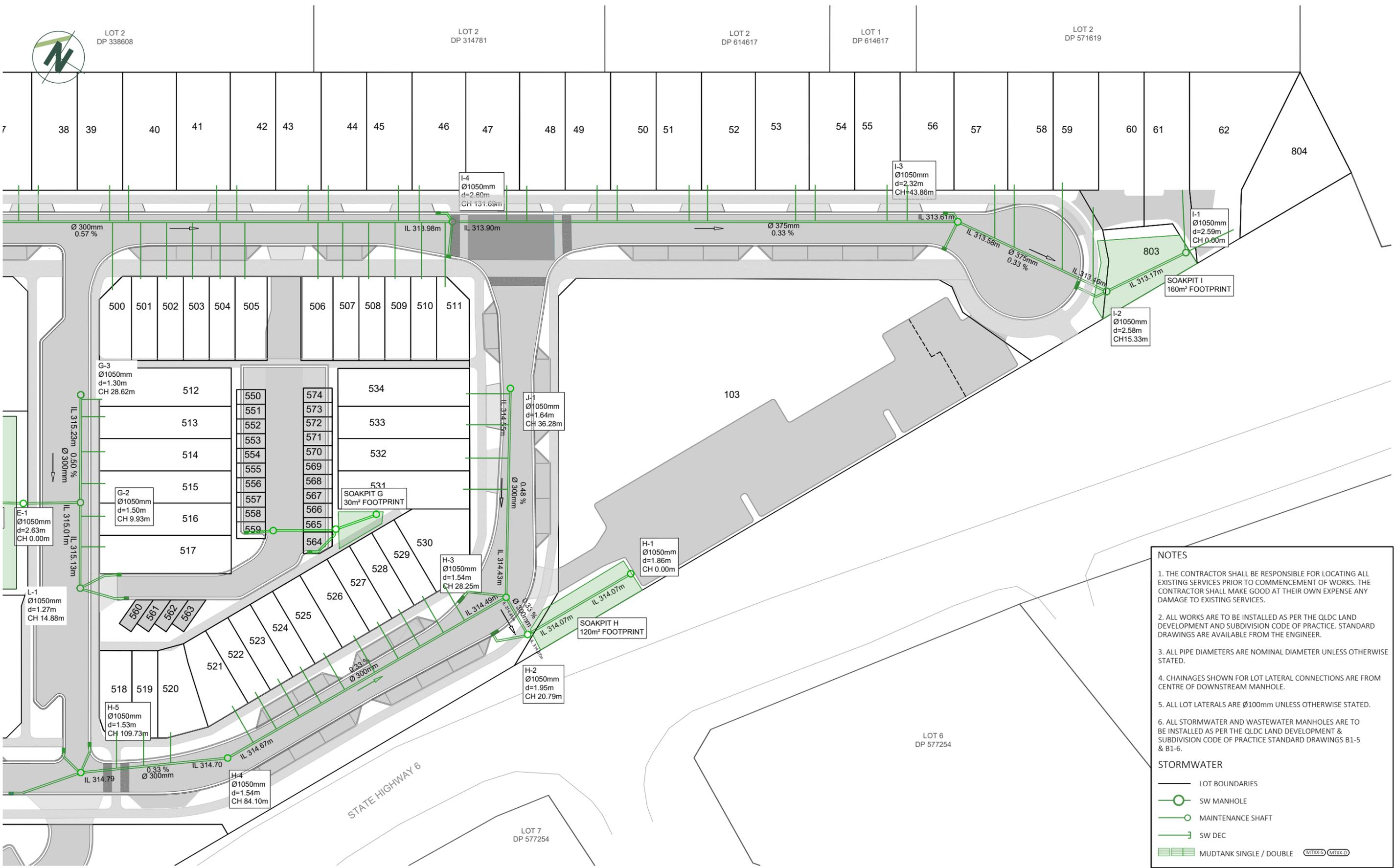
DRAWING TITLE  
**CONSENT ENGINEERING DESIGN**  
**STORMWATER LAYOUT**  
**SHEET B**

DATUM INFORMATION  
COORDINATE SYSTEM NZGD 2000  
LINDIS PEAK CIRCUIT  
DATUM NZVD2016  
ORIGIN OF COORDINATES  
ORIGIN OF LEVELS

REV DRAWN DATE NOTE  
01 PHJ 20/02/2026 Fast Track Application  
STATUS **FOR RESOURCE CONSENT**

SURVEYED LIDAR  
DESIGNED PHJ  
DRAWN SS  
REVIEWED AH  
APPROVED DLW  
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PROJECT **P240103**  
DRAWING NO **003**  
SHEET **400B**  
REVISION **1**  
SCALE (A3) **1:600**



**NOTES**

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING ALL EXISTING SERVICES PRIOR TO COMMENCEMENT OF WORKS. THE CONTRACTOR SHALL MAKE GOOD AT THEIR OWN EXPENSE ANY DAMAGE TO EXISTING SERVICES.
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**STORMWATER**

- LOT BOUNDARIES
- SW MANHOLE
- MAINTENANCE SHAFT
- SW DEC
- ▨ MUDTANK SINGLE / DOUBLE



CLIENT  
**MT IRON JUNCTION LTD**  
 JUNCTION ROAD, WANAKA

DRAWING TITLE  
**CONSENT ENGINEERING DESIGN**  
**STORMWATER LAYOUT**  
**SHEET C**

DATUM INFORMATION  
 COORDINATE SYSTEM NZGD 2000  
 LINDIS PEAK CIRCUIT  
 DATUM NZVD2016  
 ORIGIN OF COORDINATES  
 ORIGIN OF LEVELS

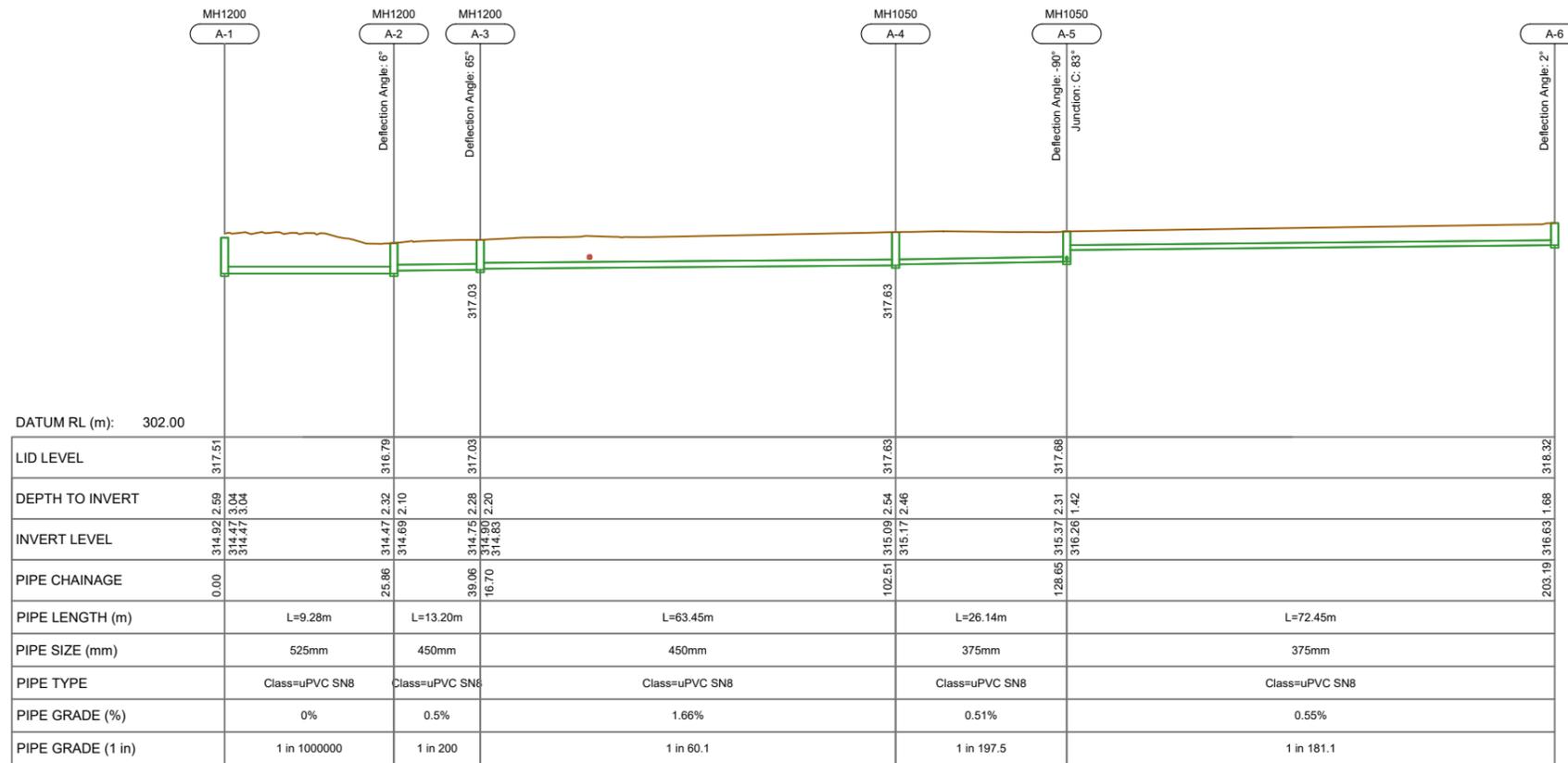
REV DRAWN DATE NOTE  
 01 PHJ 20/02/2026 Fast Track Application

STATUS **FOR RESOURCE CONSENT**

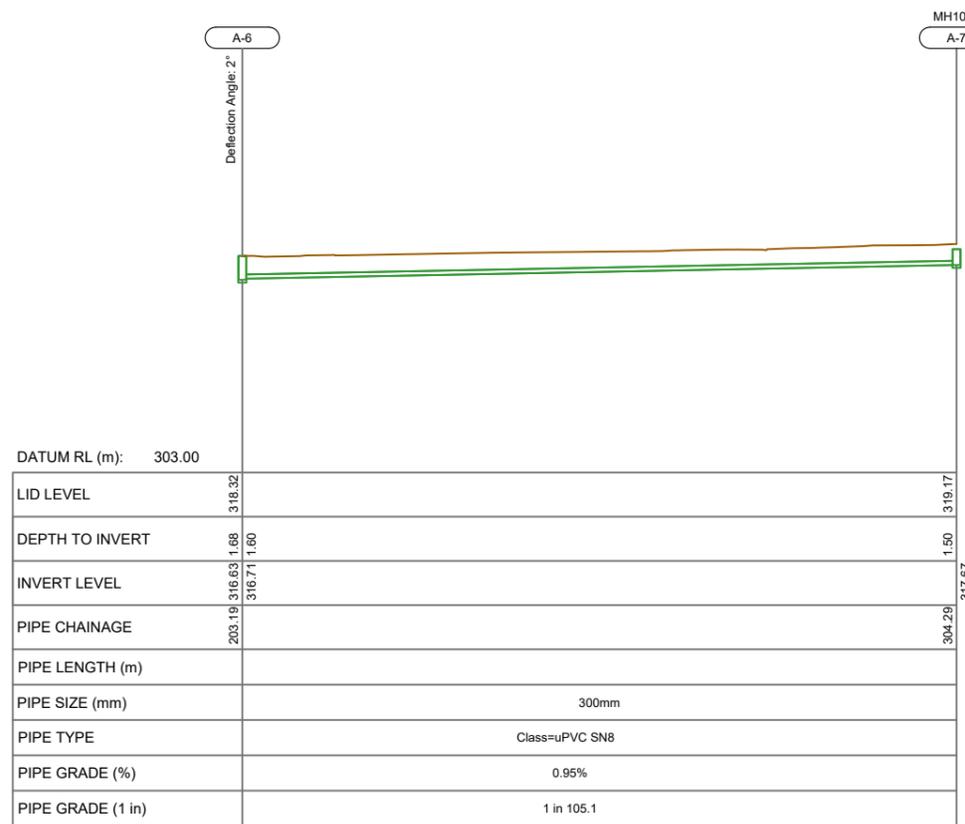
SURVEYED LIDAR  
 DESIGNED PHJ  
 DRAWN SS  
 REVIEWED AH  
 APPROVED DLW

PROJECT **P240103**  
 DRAWING NO **003**  
 SHEET **400C**  
 REVISION **1**  
 SCALE (A3) **1:601**

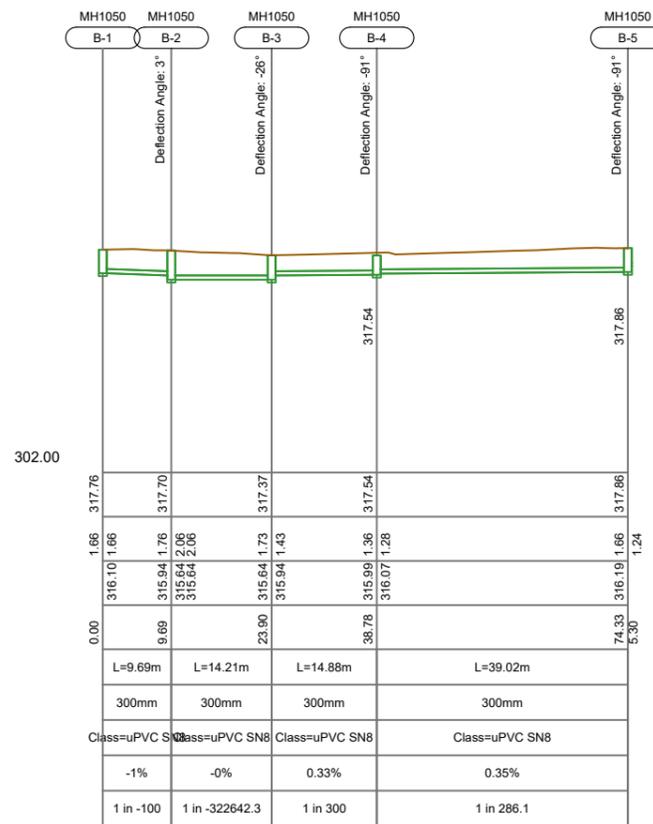
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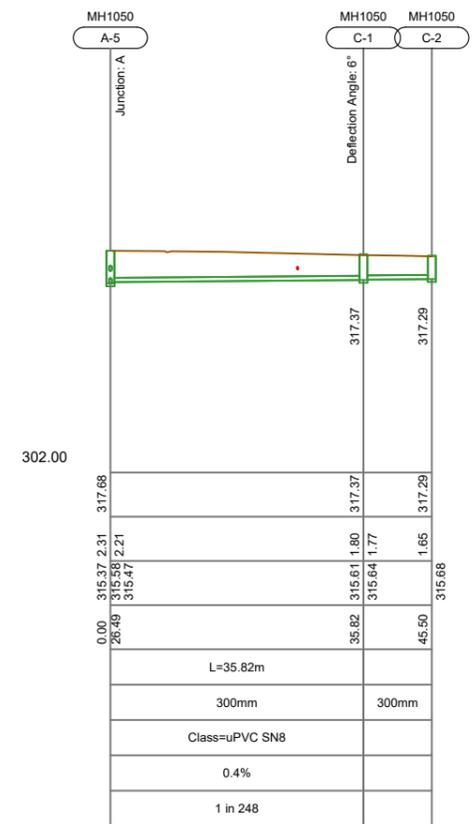
LONG SECTION: A



LONG SECTION: A



LONG SECTION: B



LONG SECTION: C



CLIENT  
**MT IRON JUNCTION LTD**  
 JUNCTION ROAD, WANAKA

DRAWING TITLE  
**CONSENT ENGINEERING DESIGN**  
**STORMWATER LONGSECTIONS**

DATUM INFORMATION  
 COORDINATE SYSTEM NZGD 2000  
 LINDIS PEAK CIRCUIT  
 DATUM NZVD2016  
 ORIGIN OF COORDINATES  
 ORIGIN OF LEVELS

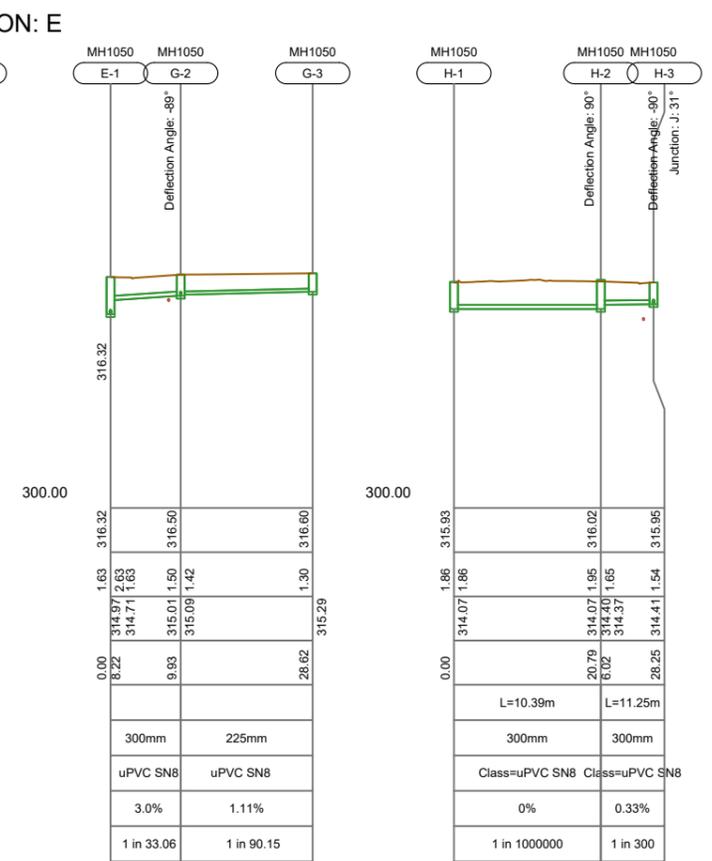
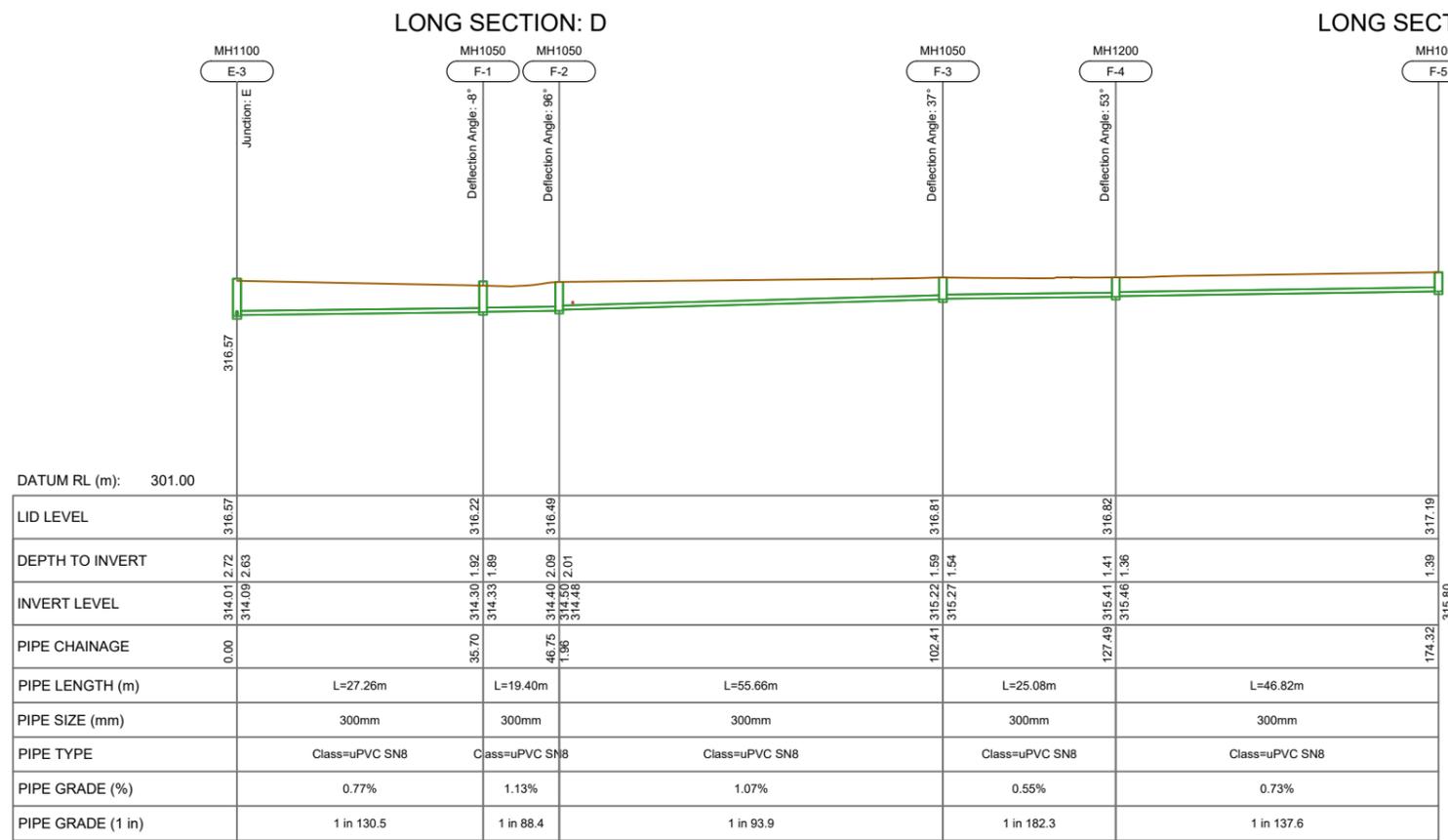
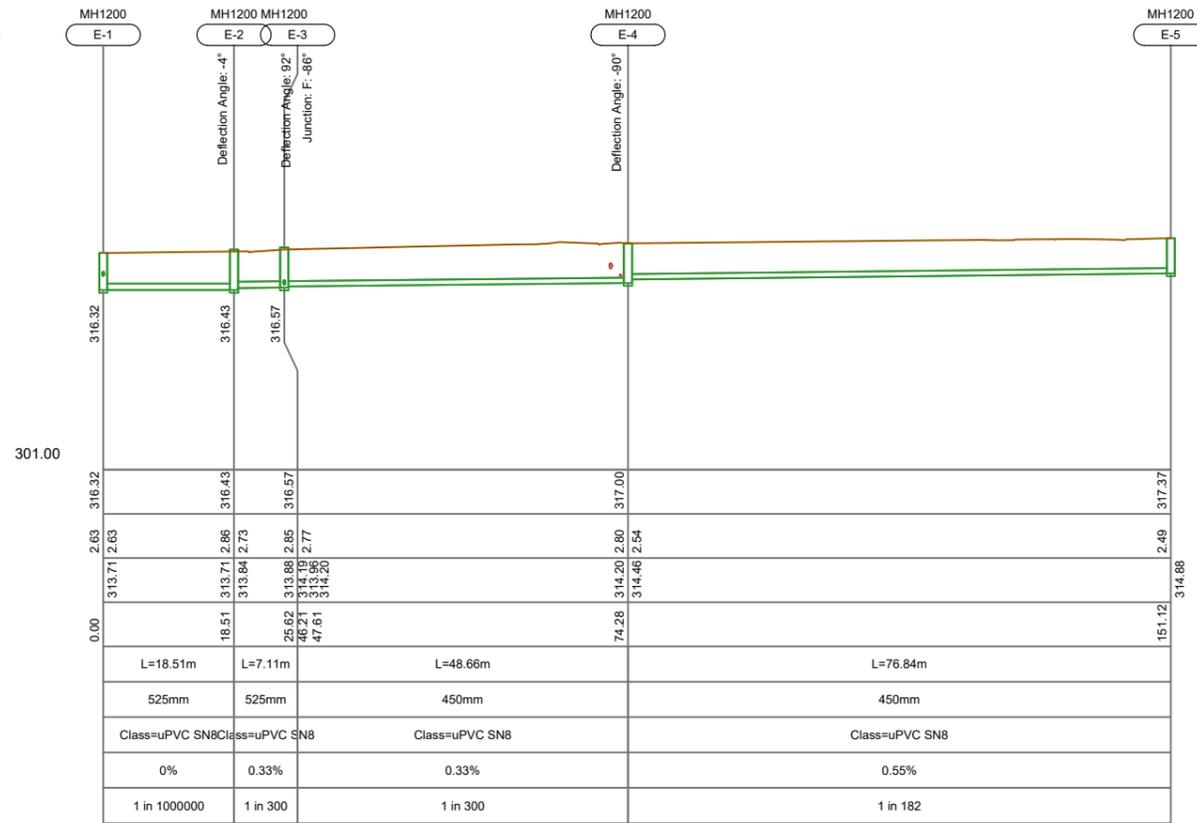
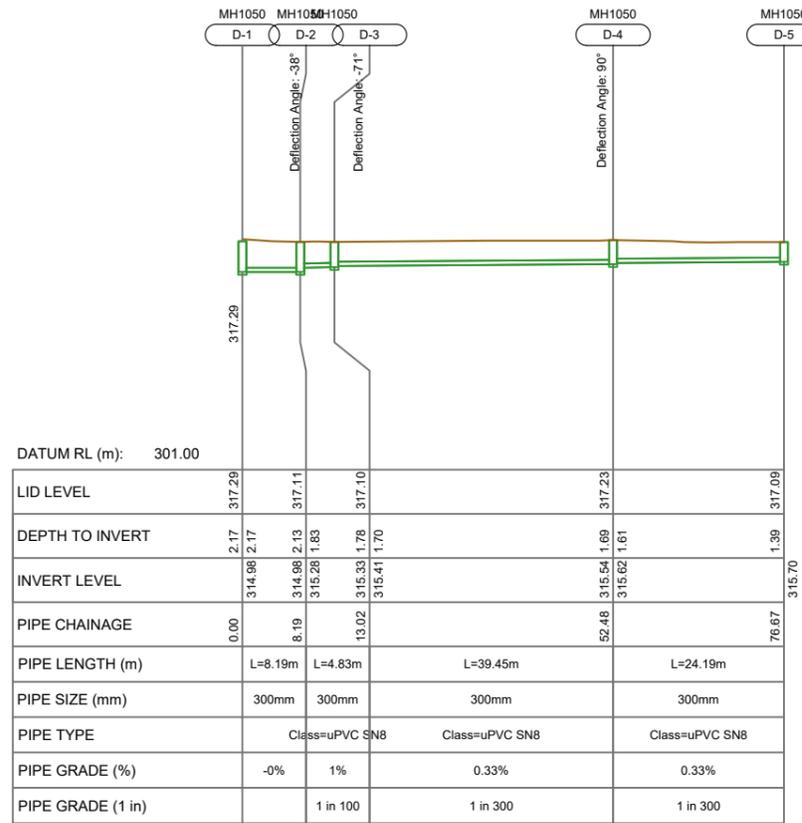
REV DRAWN DATE NOTE  
 01 PHJ 20/02/2026 Fast Track Application

STATUS **FOR RESOURCE CONSENT**

SURVEYED LIDAR  
 DESIGNED PHJ  
 DRAWN SS  
 REVIEWED AH  
 APPROVED DLW

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PROJECT **P240103**  
 DRAWING NO **003**  
 SHEET **410**  
 REVISION **1**  
 SCALE (A3) **1:2000**



LONG SECTION: F

LONG SECTION: G

LONG SECTION: H



CLIENT  
**MT IRON JUNCTION LTD**  
 JUNCTION ROAD, WANAKA

DRAWING TITLE  
**CONSENT ENGINEERING DESIGN**  
**STORMWATER LONGSECTIONS**

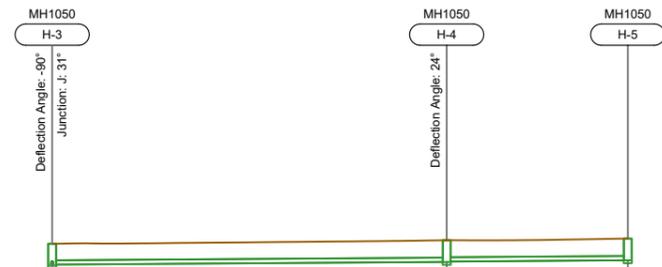
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 COORDINATE SYSTEM: NZGD 2000  
 LINDIS PEAK CIRCUIT  
 DATUM: NZVD2016  
 ORIGIN OF COORDINATES  
 ORIGIN OF LEVELS

REV 01  
 DRAWN PHJ  
 DATE 20/02/2026  
 NOTE Fast Track Application

STATUS **FOR RESOURCE CONSENT**

SURVEYED LIDAR  
 DESIGNED PHJ  
 DRAWN SS  
 REVIEWED AH  
 APPROVED DLW  
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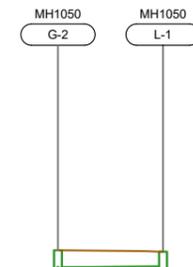
PROJECT **P240103**  
 DRAWING NO **003**  
 SHEET **411**  
 REVISION **1**  
 SCALE (A3) **1:2000**



DATUM RL (m): 300.00

LID LEVEL	315.95	316.21	316.32
DEPTH TO INVERT	1.54 314.41 1.46	1.54 314.70 1.51	1.53 314.79
INVERT LEVEL	314.41	314.67	314.79
PIPE CHAINAGE	28.25	84.10	109.73
PIPE LENGTH (m)		L=55.85m	L=25.64m
PIPE SIZE (mm)		300mm	300mm
PIPE TYPE		Class=uPVC SN8	Class=uPVC SN8
PIPE GRADE (%)		0.33%	0.33%
PIPE GRADE (1 in)		1 in 299.2	1 in 300

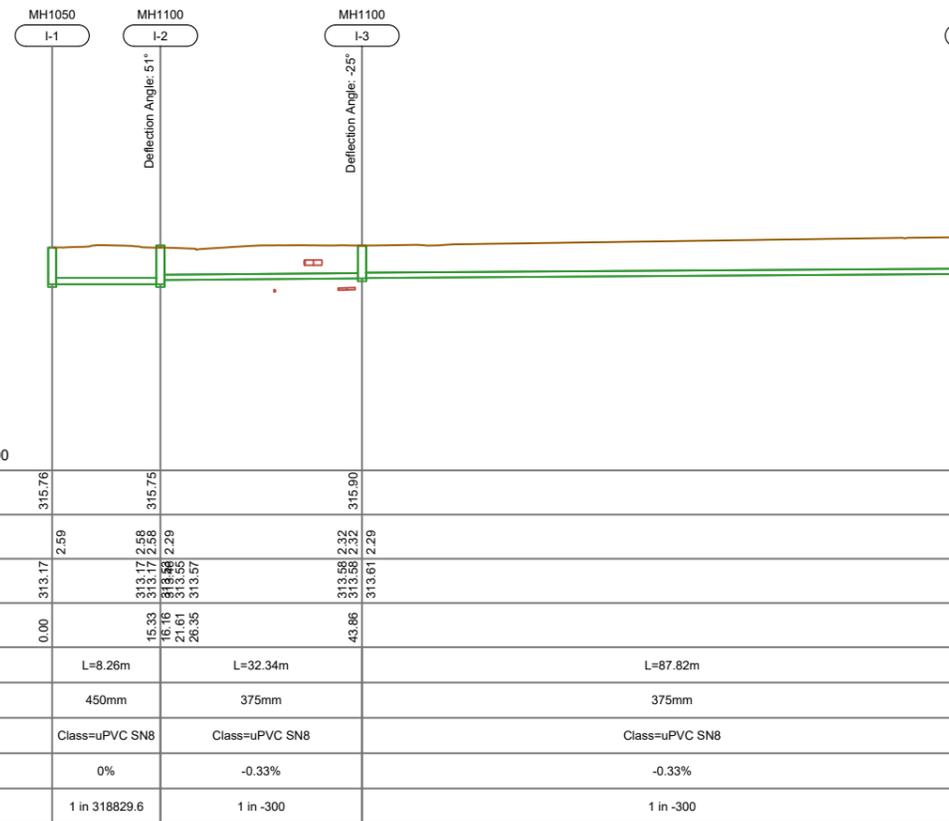
LONG SECTION: H



DATUM RL (m): 301.00

LID LEVEL	316.50	316.40
DEPTH TO INVERT	1.50 315.00 1.42	1.25 315.15 1.25
INVERT LEVEL	315.00	315.15
PIPE CHAINAGE	0.00	14.88
PIPE LENGTH (m)		
PIPE SIZE (mm)		225mm
PIPE TYPE		uPVC SN8
PIPE GRADE (%)		0.5%
PIPE GRADE (1 in)		1 in 200

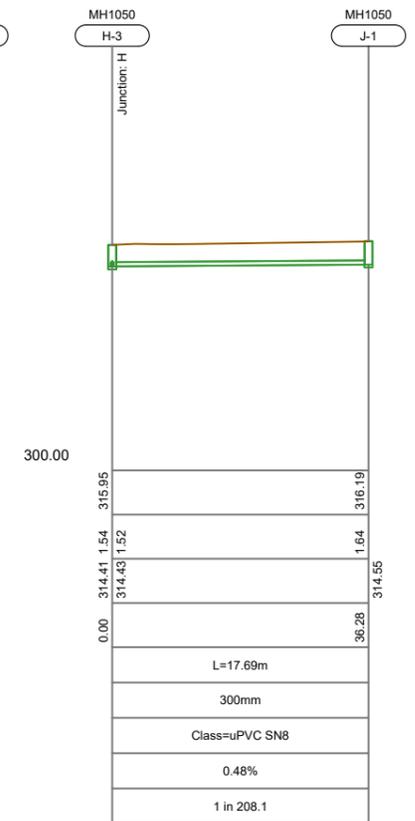
LONG SECTION: L



DATUM RL (m): 300.00

LID LEVEL	315.76	315.75	315.90	316.50	316.97
DEPTH TO INVERT	2.59	2.58 313.17 2.58 18.38 21.61 26.35	2.32 313.58 2.32	2.60 313.90 2.60	2.50 314.47 2.50
INVERT LEVEL	313.17	313.17	313.58	313.90	314.47
PIPE CHAINAGE	0.00	15.33	43.88	131.69	225.90
PIPE LENGTH (m)		L=8.26m	L=32.34m	L=87.82m	L=94.22m
PIPE SIZE (mm)		450mm	375mm	375mm	300mm
PIPE TYPE		Class=uPVC SN8	Class=uPVC SN8	Class=uPVC SN8	Class=uPVC SN8
PIPE GRADE (%)		0%	-0.33%	-0.33%	-0.57%
PIPE GRADE (1 in)		1 in 318829.6	1 in -300	1 in -300	1 in -174.5

LONG SECTION: I



DATUM RL (m): 300.00

LID LEVEL	315.95	316.19
DEPTH TO INVERT	1.54 314.41 1.52	1.64 314.55
INVERT LEVEL	314.41	314.55
PIPE CHAINAGE	0.00	36.28
PIPE LENGTH (m)		L=17.69m
PIPE SIZE (mm)		300mm
PIPE TYPE		Class=uPVC SN8
PIPE GRADE (%)		0.48%
PIPE GRADE (1 in)		1 in 208.1

LONG SECTION: J



CLIENT  
**MT IRON JUNCTION LTD**  
JUNCTION ROAD, WANAKA

DRAWING TITLE  
**CONSENT ENGINEERING DESIGN**  
**STORMWATER LONGSECTIONS**

DATUM INFORMATION  
COORDINATE SYSTEM NZGD 2000  
LINDIS PEAK CIRCUIT  
DATUM NZVD2016  
ORIGIN OF COORDINATES  
ORIGIN OF LEVELS

REV DRAWN DATE NOTE  
01 PHJ 20/02/2026 Fast Track Application

STATUS **FOR RESOURCE CONSENT**

SURVEYED LIDAR PROJECT **P240103**  
DESIGNED PHJ DRAWING NO **003**  
DRAWN SS SHEET **412**  
REVIEWED AH REVISION **1**  
APPROVED DLW SCALE (A3) **1:2000**  
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PT CLOSED ROAD BLOCK IV  
LOWER WANAKA SURVEY DISTRICT

EXISTING Ø 375mm  
WASTEWATER MAIN

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24

MH7-4  
Ø1050mm  
d=1.42m  
CH 214.04m

IL 317.78m

MH7-3  
Ø1050mm  
d=1.37m  
CH 155.93m

IL 317.20m

L 317.17m

MH7-2  
Ø1050mm  
d=1.21m  
CH 30.64m

IL 316.48m

300 301 302 303 304 305 306 307

314 315 316 317 318 319 320 321 322 323 324 325 326

201

LOT 1  
DP 15016

STATE HIGHWAY 84

SOAKPIT A  
9m<sup>2</sup> FOOTPRINT

308  
309

MH1-15  
Ø1050mm  
d=1.54m  
CH 613.79m

350  
351  
352  
353  
354

MH1-14  
Ø1050mm  
d=1.47m  
CH 592.74m

366  
365  
364  
363  
362  
361

380  
381  
382  
383  
384

MH1-13  
Ø1050mm  
d=1.72m  
CH 550.75m

IL 315.99m

MH1-14  
Ø1050mm  
d=0.90m  
CH 20.91

379  
378  
377  
376  
375  
374  
373  
372  
371  
370  
369  
368  
367

327  
328  
329  
330  
331  
332  
333

MH1-12  
Ø1050mm  
d=1.55m  
CH 506.89m

IL 315.59m

**NOTES**

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING ALL EXISTING SERVICES PRIOR TO COMMENCEMENT OF WORKS. THE CONTRACTOR SHALL MAKE GOOD AT THEIR OWN EXPENSE ANY DAMAGE TO EXISTING SERVICES.
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**WASTEWATER LEGEND**

- LOT BOUNDARIES
- FS INFRASTRUCTURE
- FS INFRASTRUCTURE EXISTING
- FS INFRASTRUCTURE EXISTING (TO BE DECOMMISSIONED)
- FS LATERAL
- MAINTENANCE SHAFT



CLIENT  
**MT IRON JUNCTION LTD**  
JUNCTION ROAD, WANAKA

DRAWING TITLE  
**CONSENT ENGINEERING DESIGN**  
**WASTEWATER LAYOUT**  
**SHEET A**

DATUM INFORMATION  
COORDINATE SYSTEM  
LINDIS PEAK CIRCUIT  
DATUM  
ORIGIN OF COORDINATES  
ORIGIN OF LEVELS

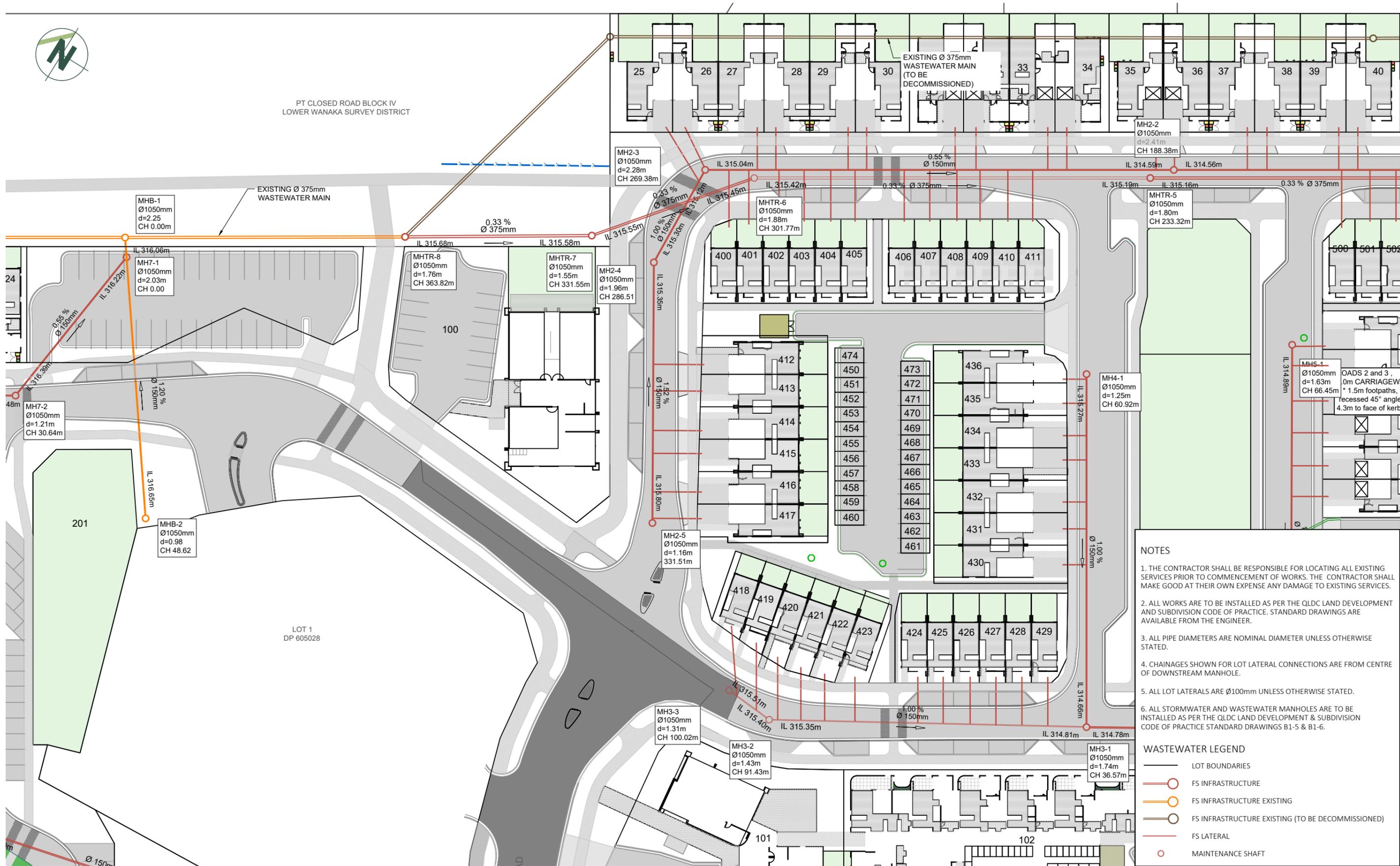
REV DRAWN DATE NOTE  
01 PHJ 20/02/2026 Fast Track Application  
STATUS **FOR RESOURCE CONSENT**

SURVEYED LIDAR  
DESIGNED PHJ  
DRAWN SS  
REVIEWED AH  
APPROVED DLW  
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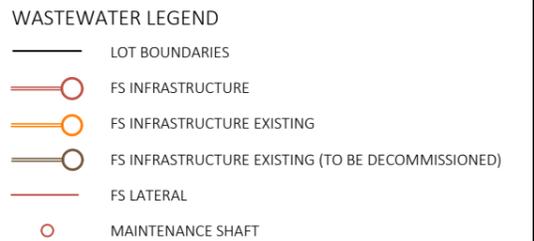
PROJECT **P240103**  
DRAWING NO **003**  
SHEET **500A**  
REVISION **1**  
SCALE (A3) **1:600**



PT CLOSED ROAD BLOCK IV  
LOWER WANAKA SURVEY DISTRICT



- NOTES**
1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING ALL EXISTING SERVICES PRIOR TO COMMENCEMENT OF WORKS. THE CONTRACTOR SHALL MAKE GOOD AT THEIR OWN EXPENSE ANY DAMAGE TO EXISTING SERVICES.
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CLIENT  
**MT IRON JUNCTION LTD**  
JUNCTION ROAD, WANAKA

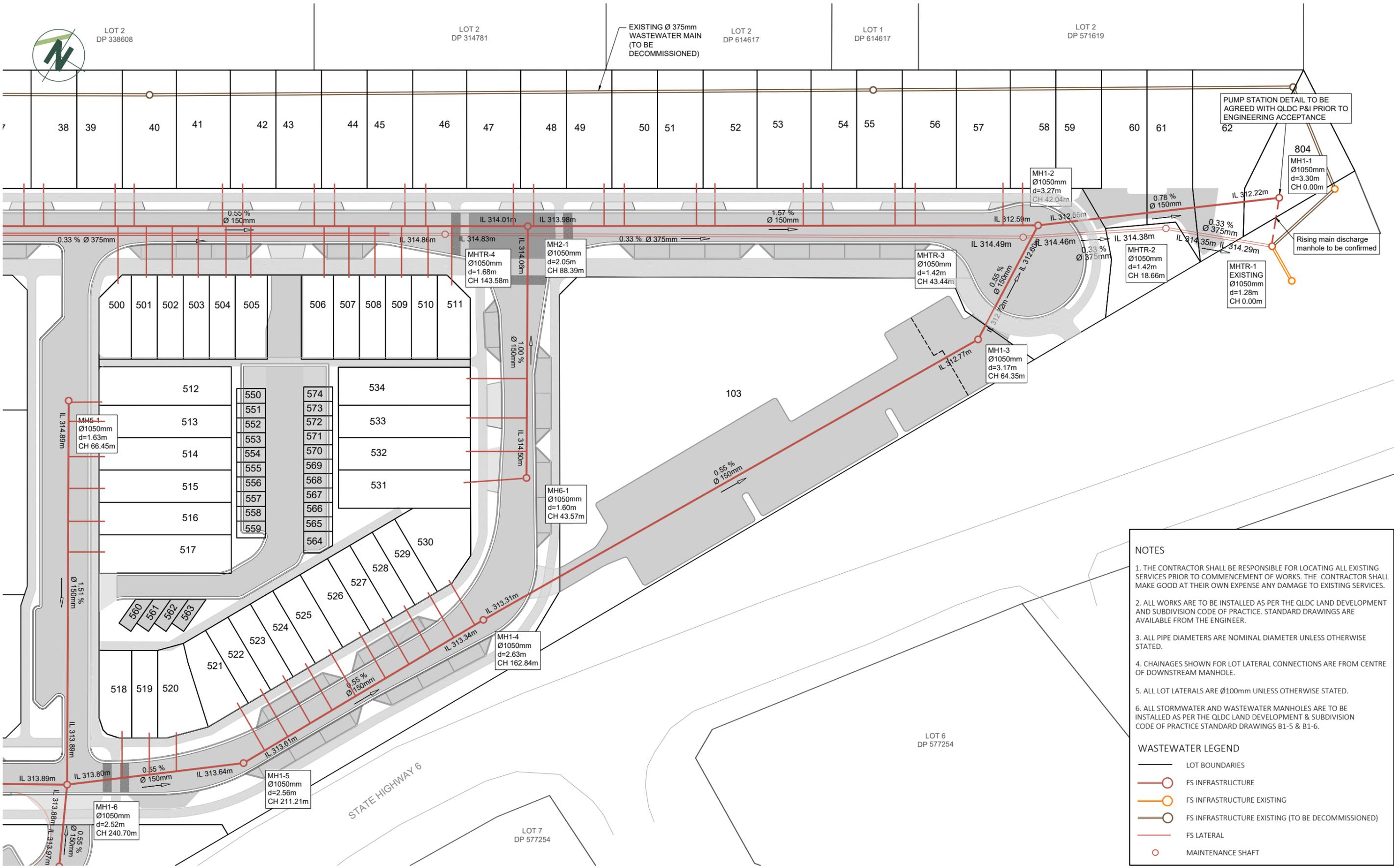
DRAWING TITLE  
**CONSENT ENGINEERING DESIGN  
WASTEWATER LAYOUT  
SHEET B**

DATUM INFORMATION  
COORDINATE SYSTEM  
LINDIS PEAK CIRCUIT  
DATUM  
ORIGIN OF COORDINATES  
ORIGIN OF LEVELS

REV DRAWN DATE NOTE  
01 PHJ 20/02/2026 Fast Track Application  
STATUS **FOR RESOURCE CONSENT**

SURVEYED LIDAR  
DESIGNED PHJ  
DRAWN SS  
REVIEWED AH  
APPROVED DLW  
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PROJECT **P240103**  
DRAWING NO **003**  
SHEET **500B**  
REVISION **1**  
SCALE (A3) **1:600**



**NOTES**

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**WASTEWATER LEGEND**

- LOT BOUNDARIES
- FS INFRASTRUCTURE
- FS INFRASTRUCTURE EXISTING
- FS INFRASTRUCTURE EXISTING (TO BE DECOMMISSIONED)
- FS LATERAL
- MAINTENANCE SHAFT



CLIENT  
**MT IRON JUNCTION LTD**  
 JUNCTION ROAD, WANAKA

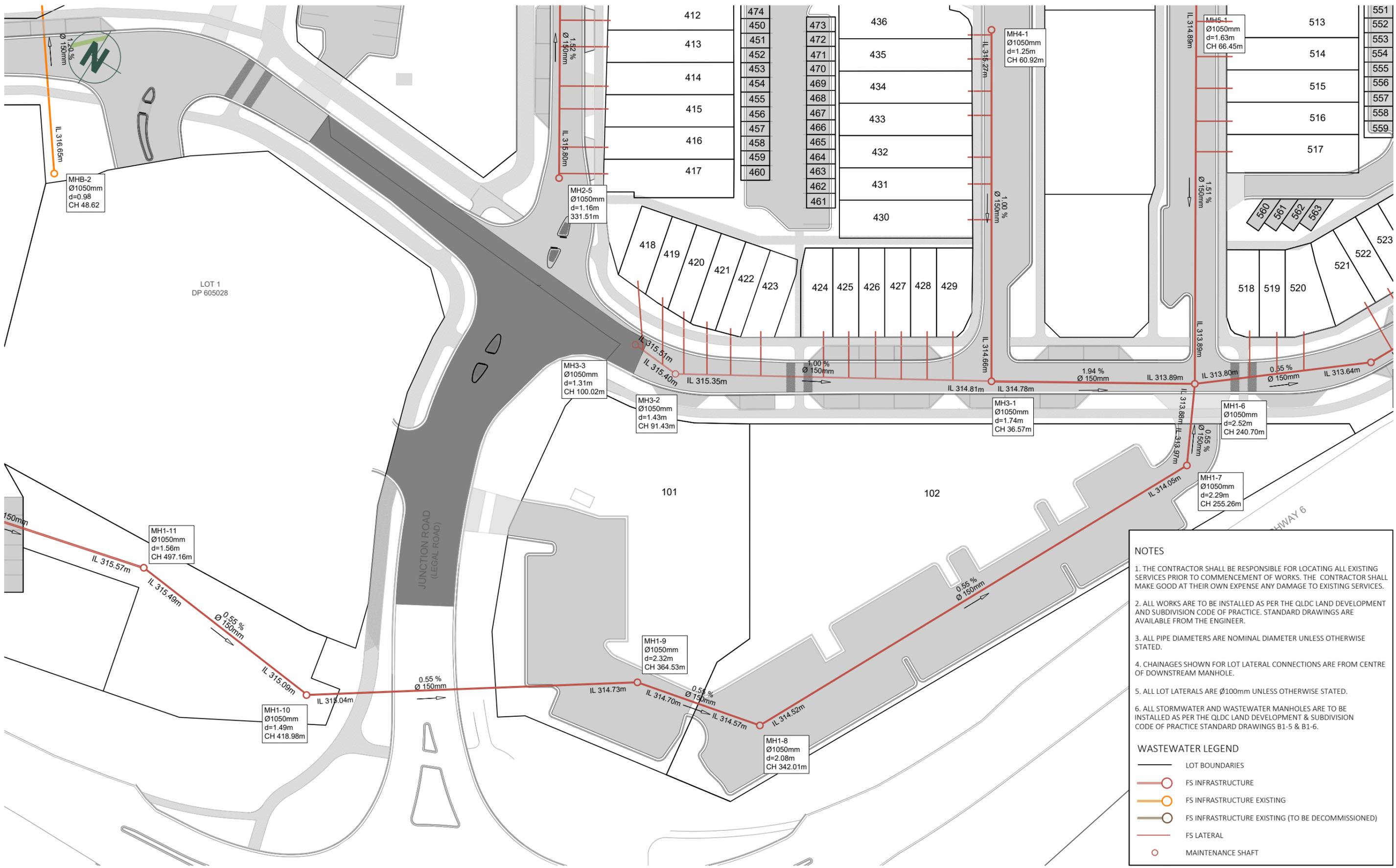
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**CONSENT ENGINEERING DESIGN**  
**WASTEWATER LAYOUT**  
**SHEET C**

DATUM INFORMATION  
 COORDINATE SYSTEM NZGD 2000  
 LINDIS PEAK CIRCUIT  
 DATUM NZVD2016  
 ORIGIN OF COORDINATES  
 ORIGIN OF LEVELS

REV DRAWN DATE NOTE  
 01 PHJ 20/02/2026 Fast Track Application  
 STATUS **FOR RESOURCE CONSENT**

SURVEYED LIDAR  
 DESIGNED PHJ  
 DRAWN SS  
 REVIEWED AH  
 APPROVED DLW  
 PROJECT **P240103**  
 DRAWING NO **003**  
 SHEET **500C**  
 REVISION **1**  
 SCALE (A3) **1:600**

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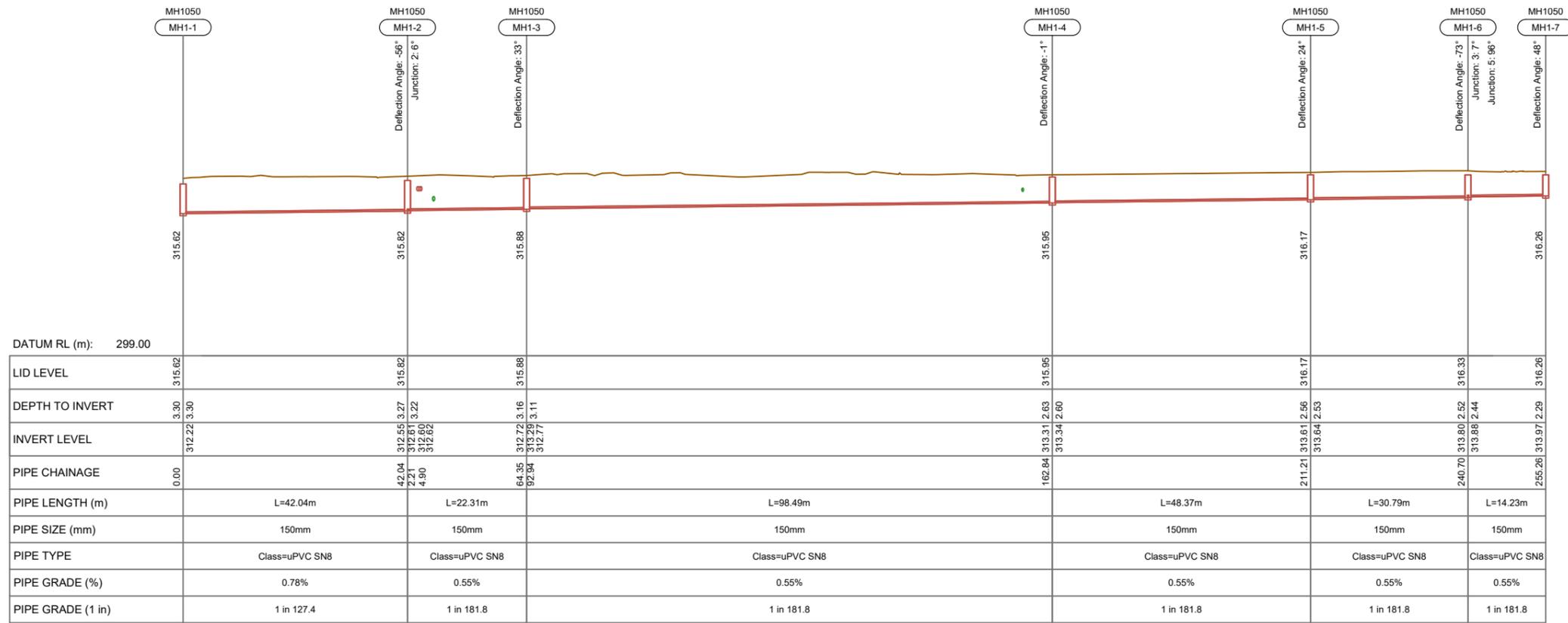


**NOTES**

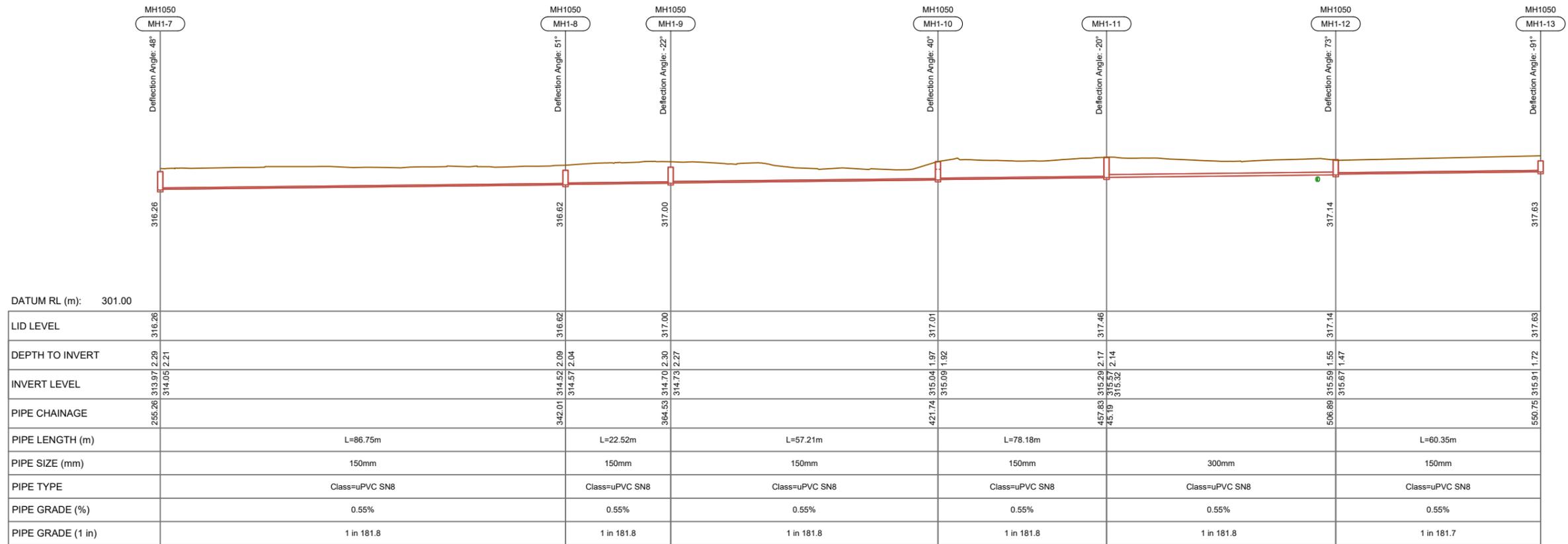
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**WASTEWATER LEGEND**

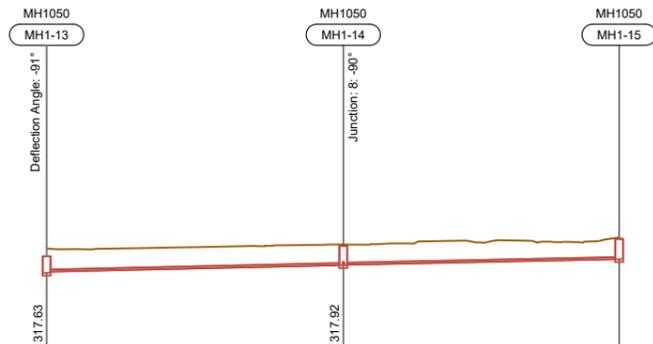
- LOT BOUNDARIES
- FS INFRASTRUCTURE
- FS INFRASTRUCTURE EXISTING
- FS INFRASTRUCTURE EXISTING (TO BE DECOMMISSIONED)
- FS LATERAL
- MAINTENANCE SHAFT



LONG SECTION: 1



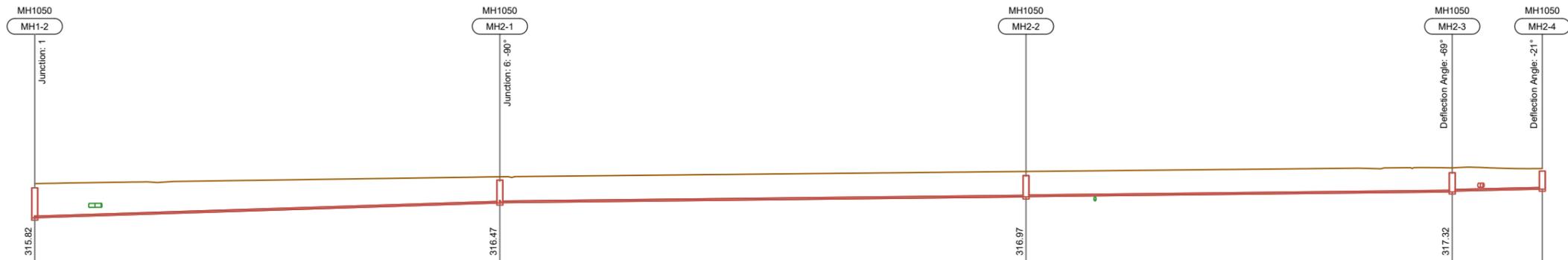
LONG SECTION: 1



DATUM RL (m): 302.00

LID LEVEL	317.63	317.92	318.41
DEPTH TO INVERT	1.72	1.47	1.54
INVERT LEVEL	315.91	316.45	316.87
PIPE CHAINAGE	550.75	592.74	631.79
PIPE LENGTH (m)	L=41.99m	L=39.05m	
PIPE SIZE (mm)	150mm	150mm	
PIPE TYPE	Class=uPVC SN8	Class=uPVC SN8	
PIPE GRADE (%)	1.12%	1%	
PIPE GRADE (1 in)	1 in 89.4	1 in 100.5	

LONG SECTION: 1



DATUM RL (m): 300.00

LID LEVEL	315.82	316.47	316.97	317.32	317.25
DEPTH TO INVERT	3.27	2.49	2.41	2.28	1.96
INVERT LEVEL	312.55	313.98	314.56	315.04	315.30
PIPE CHAINAGE	0.00	88.39	188.38	289.38	286.51
PIPE LENGTH (m)	L=88.39m	L=99.99m	L=81.00m	L=18.27m	
PIPE SIZE (mm)	150mm	150mm	150mm	150mm	
PIPE TYPE	Class=uPVC SN8	Class=uPVC SN8	Class=uPVC SN8	Class=uPVC SN8	
PIPE GRADE (%)	1.57%	0.55%	0.55%	1%	
PIPE GRADE (1 in)	1 in 63.6	1 in 181.8	1 in 181.8	1 in 100	

LONG SECTION: 2



CLIENT  
**MT IRON JUNCTION LTD**  
 JUNCTION ROAD, WANAKA

DRAWING TITLE  
**CONSENT ENGINEERING DESIGN**  
**WASTEWATER LONGSECTIONS 2**

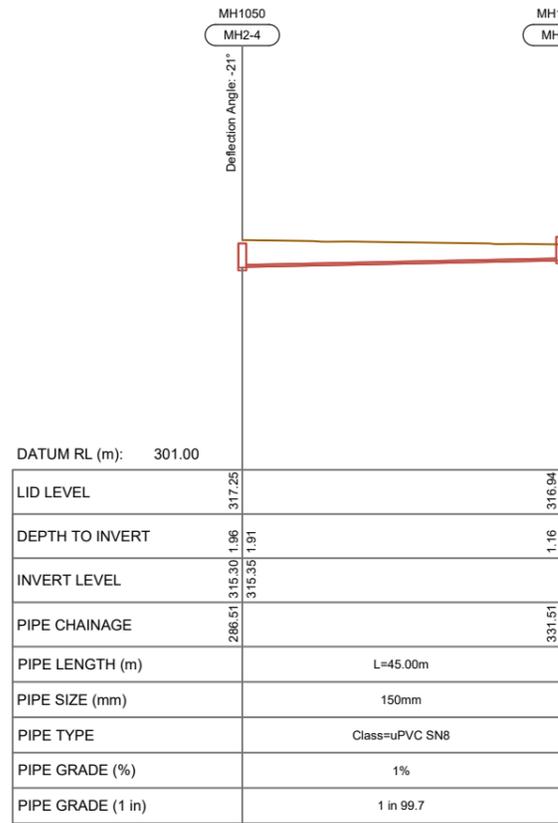
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 LINDIS PEAK CIRCUIT  
 DATUM NZVD2016  
 ORIGIN OF COORDINATES  
 ORIGIN OF LEVELS

REV DRAWN DATE NOTE  
 01 PHJ 20/02/2026 Fast Track Application

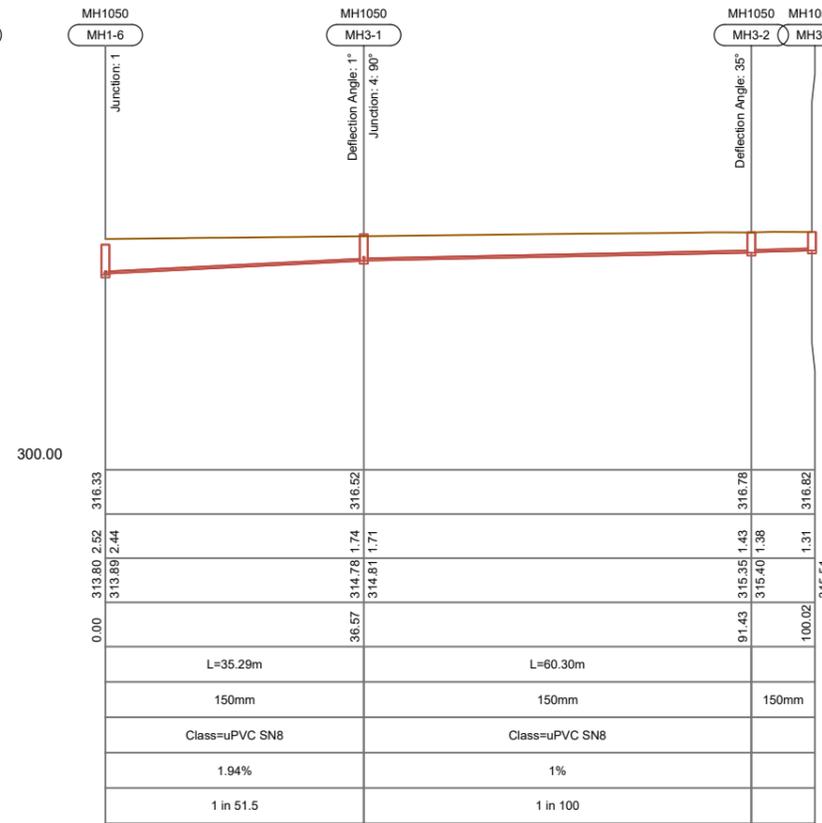
STATUS **FOR RESOURCE CONSENT**

SURVEYED LIDAR  
 DESIGNED PHJ  
 DRAWN SS  
 REVIEWED AH  
 APPROVED DLW  
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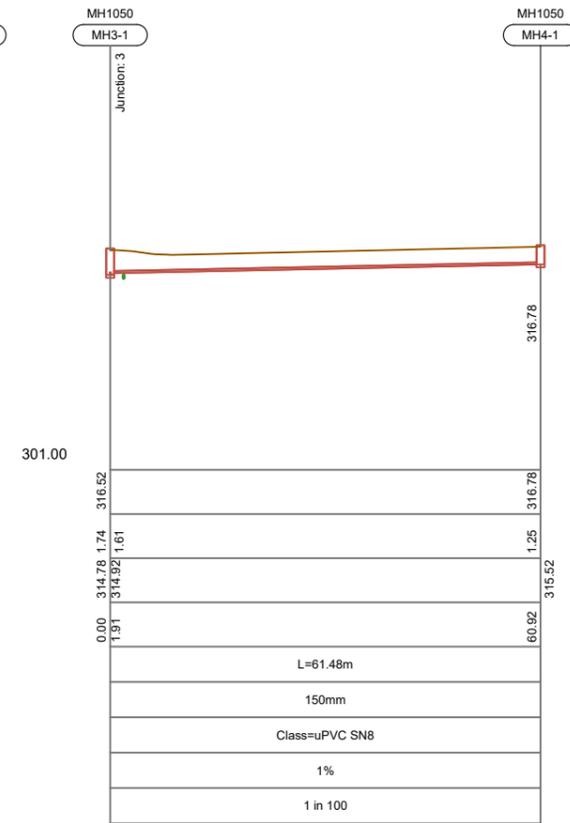
PROJECT **P240103**  
 DRAWING NO **003**  
 SHEET **511**  
 REVISION **1**  
 SCALE (A3) **1:2000**



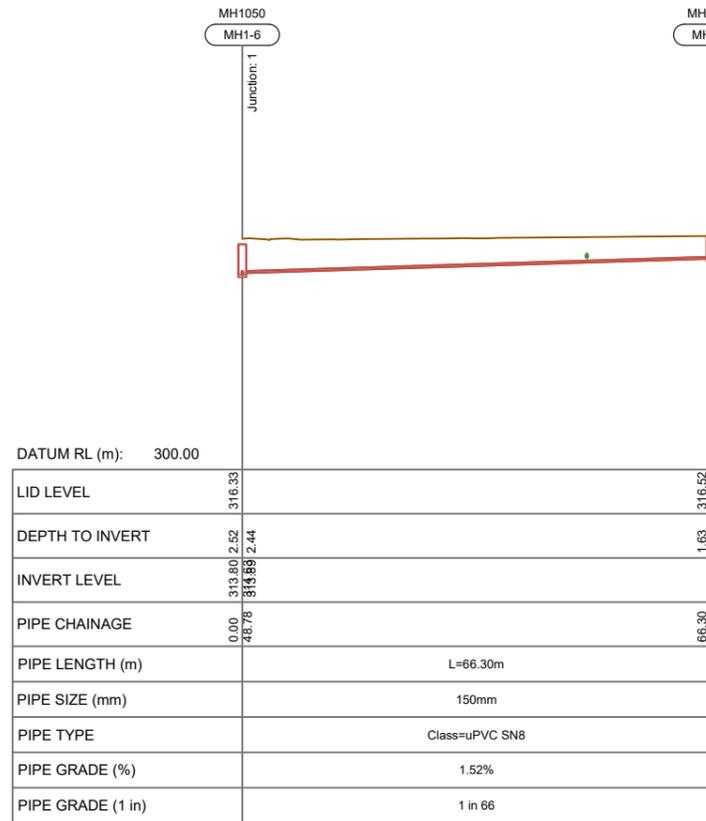
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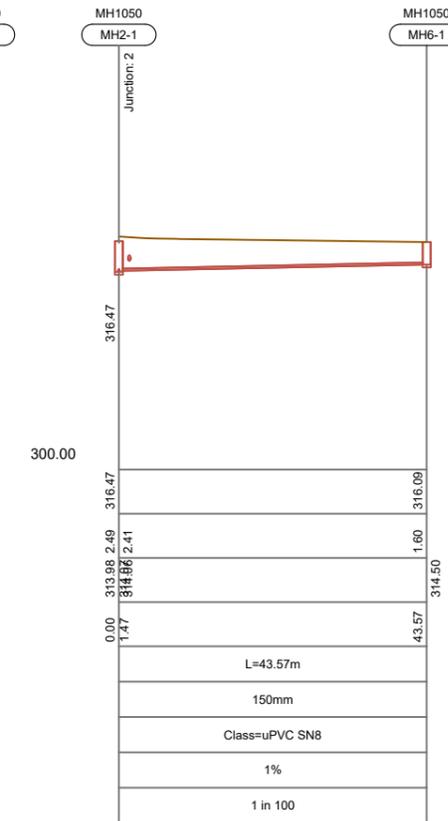
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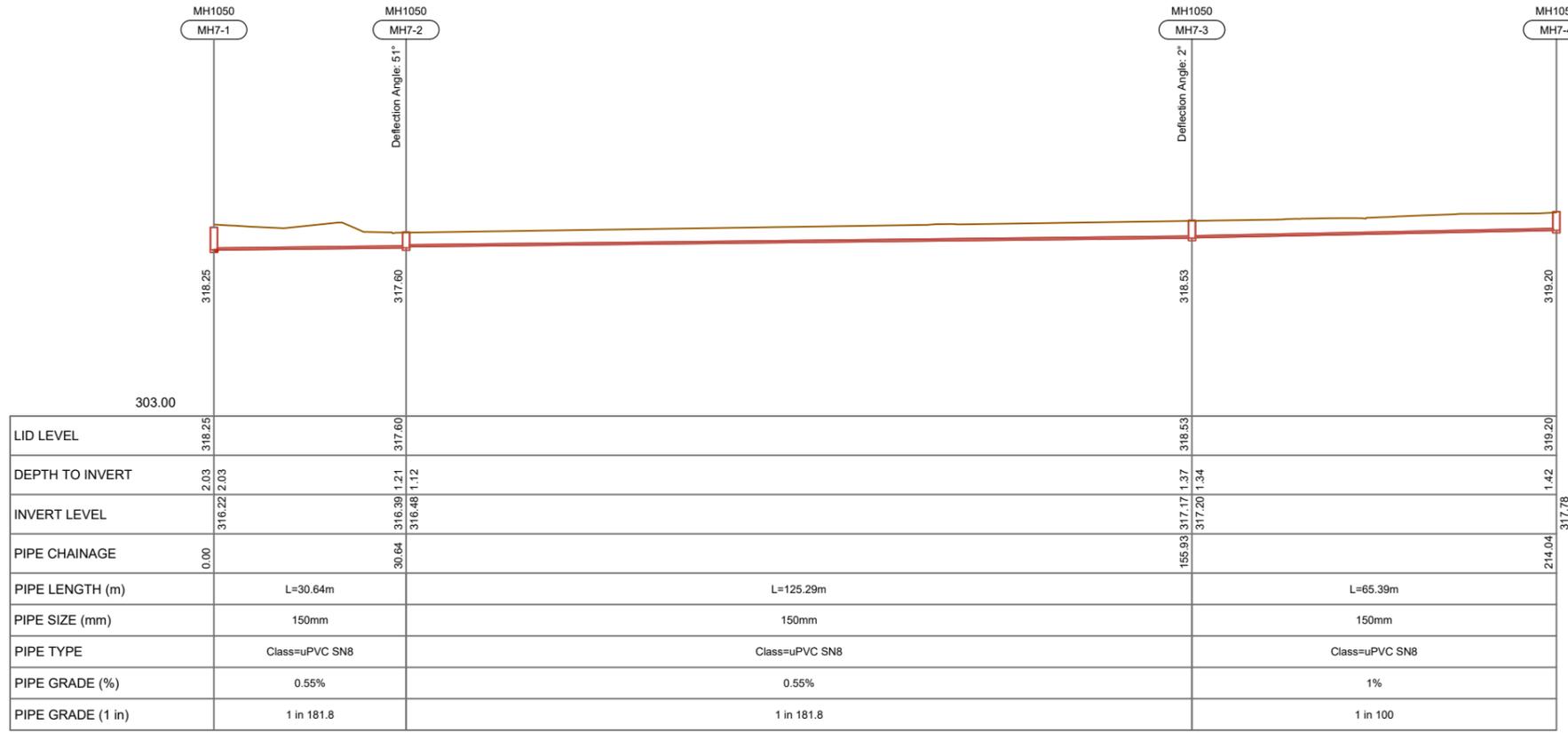
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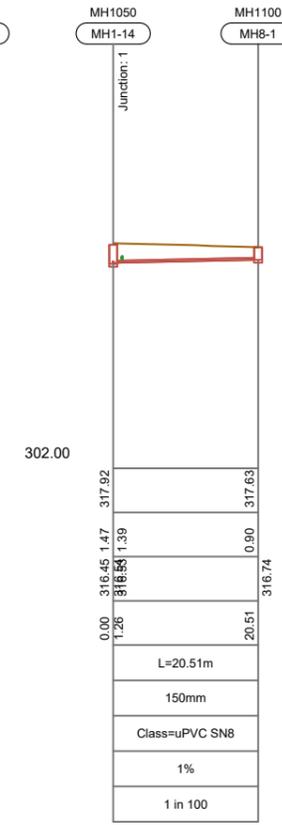
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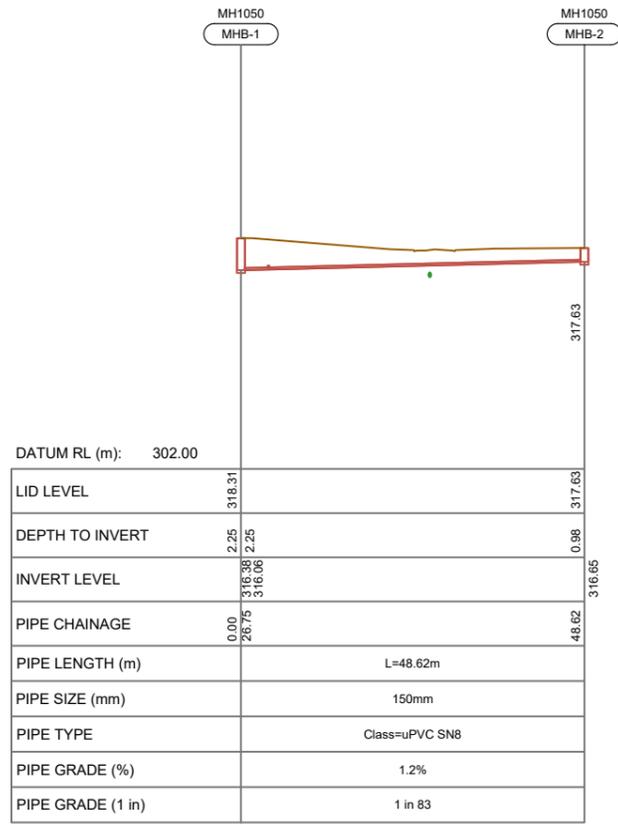
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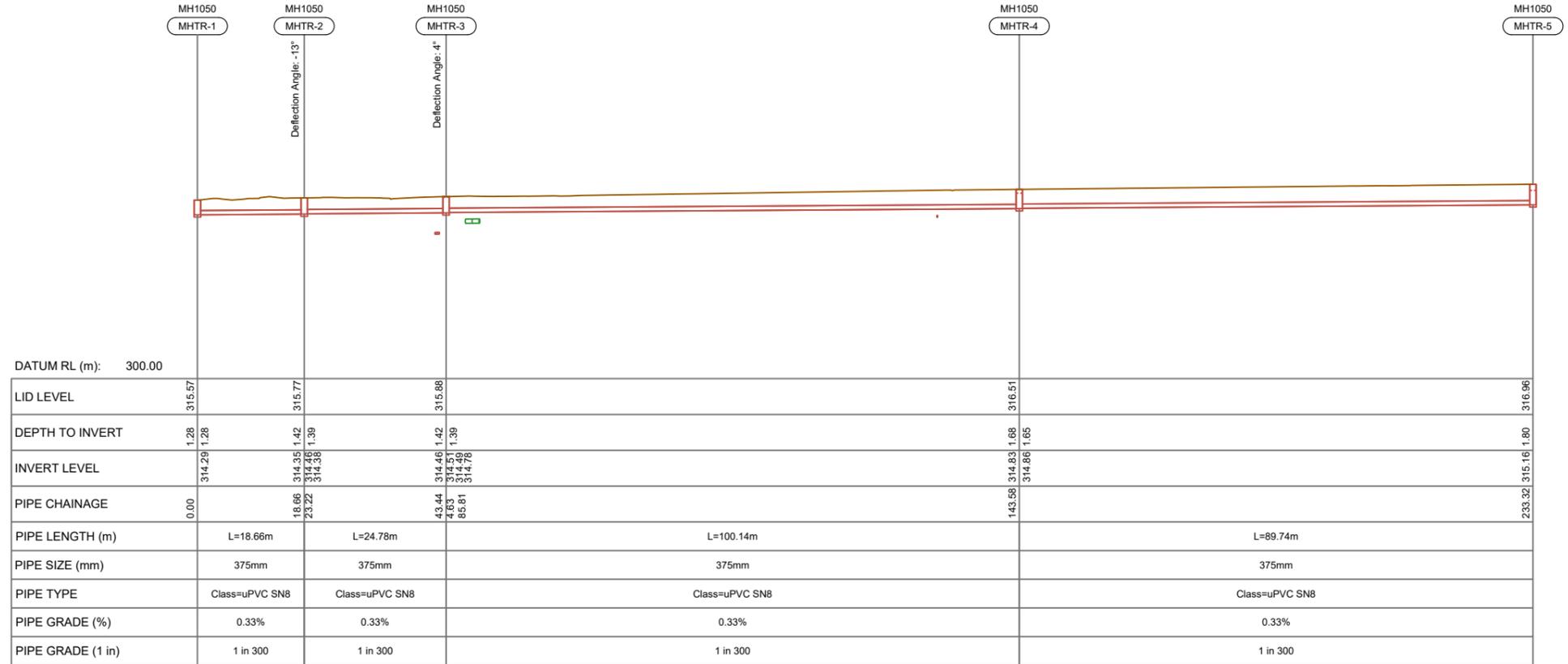
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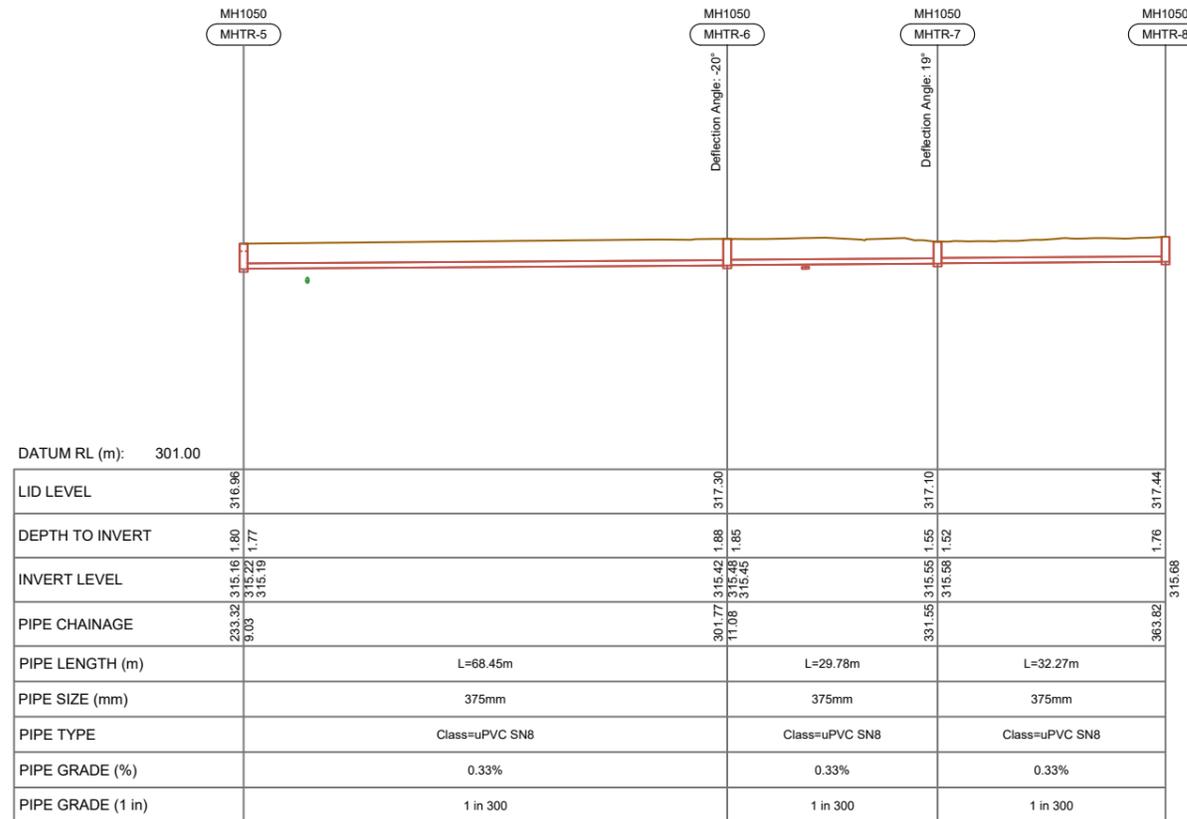
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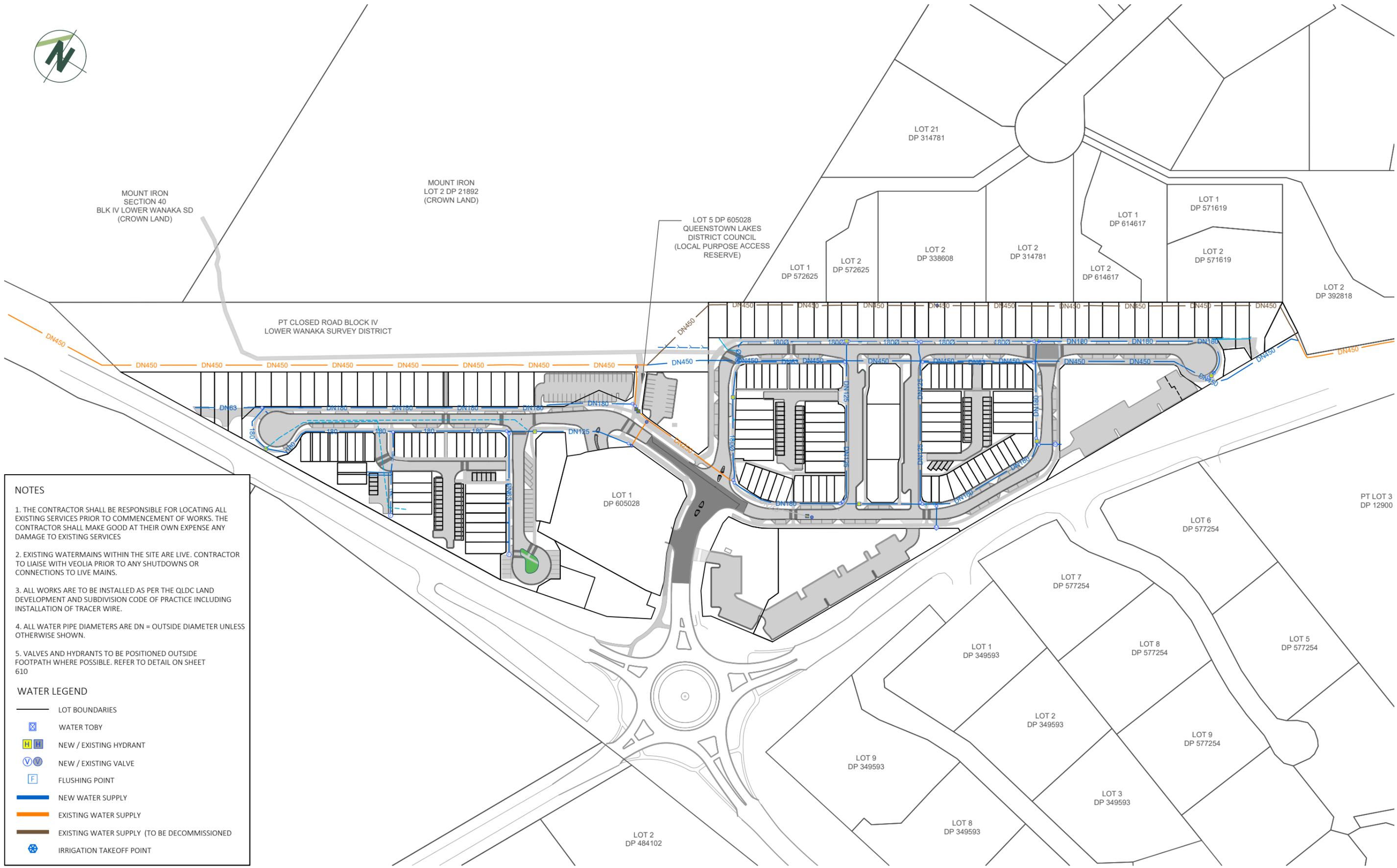


EXISTING SEWER B ( CALTEX)



LONG SECTION: TR





**NOTES**

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING ALL EXISTING SERVICES PRIOR TO COMMENCEMENT OF WORKS. THE CONTRACTOR SHALL MAKE GOOD AT THEIR OWN EXPENSE ANY DAMAGE TO EXISTING SERVICES
2. EXISTING WATERMANS WITHIN THE SITE ARE LIVE. CONTRACTOR TO LIAISE WITH VEOLIA PRIOR TO ANY SHUTDOWNS OR CONNECTIONS TO LIVE MAINS.
3. ALL WORKS ARE TO BE INSTALLED AS PER THE QLDC LAND DEVELOPMENT AND SUBDIVISION CODE OF PRACTICE INCLUDING INSTALLATION OF TRACER WIRE.
4. ALL WATER PIPE DIAMETERS ARE DN = OUTSIDE DIAMETER UNLESS OTHERWISE SHOWN.
5. VALVES AND HYDRANTS TO BE POSITIONED OUTSIDE FOOTPATH WHERE POSSIBLE. REFER TO DETAIL ON SHEET 610

**WATER LEGEND**

- LOT BOUNDARIES
- WATER TOBY
- NEW / EXISTING HYDRANT
- NEW / EXISTING VALVE
- FLUSHING POINT
- NEW WATER SUPPLY
- EXISTING WATER SUPPLY
- EXISTING WATER SUPPLY (TO BE DECOMMISSIONED)
- IRRIGATION TAKEOFF POINT



CLIENT  
**MT IRON JUNCTION LTD**  
 JUNCTION ROAD, WANAKA

DRAWING TITLE  
**CONSENT ENGINEERING DESIGN**  
**WATER SUPPLY - OVERVIEW PLAN**

DATUM INFORMATION  
 COORDINATE SYSTEM NZGD 2000  
 LINDIS PEAK CIRCUIT  
 DATUM NZVD2016  
 ORIGIN OF COORDINATES  
 ORIGIN OF LEVELS

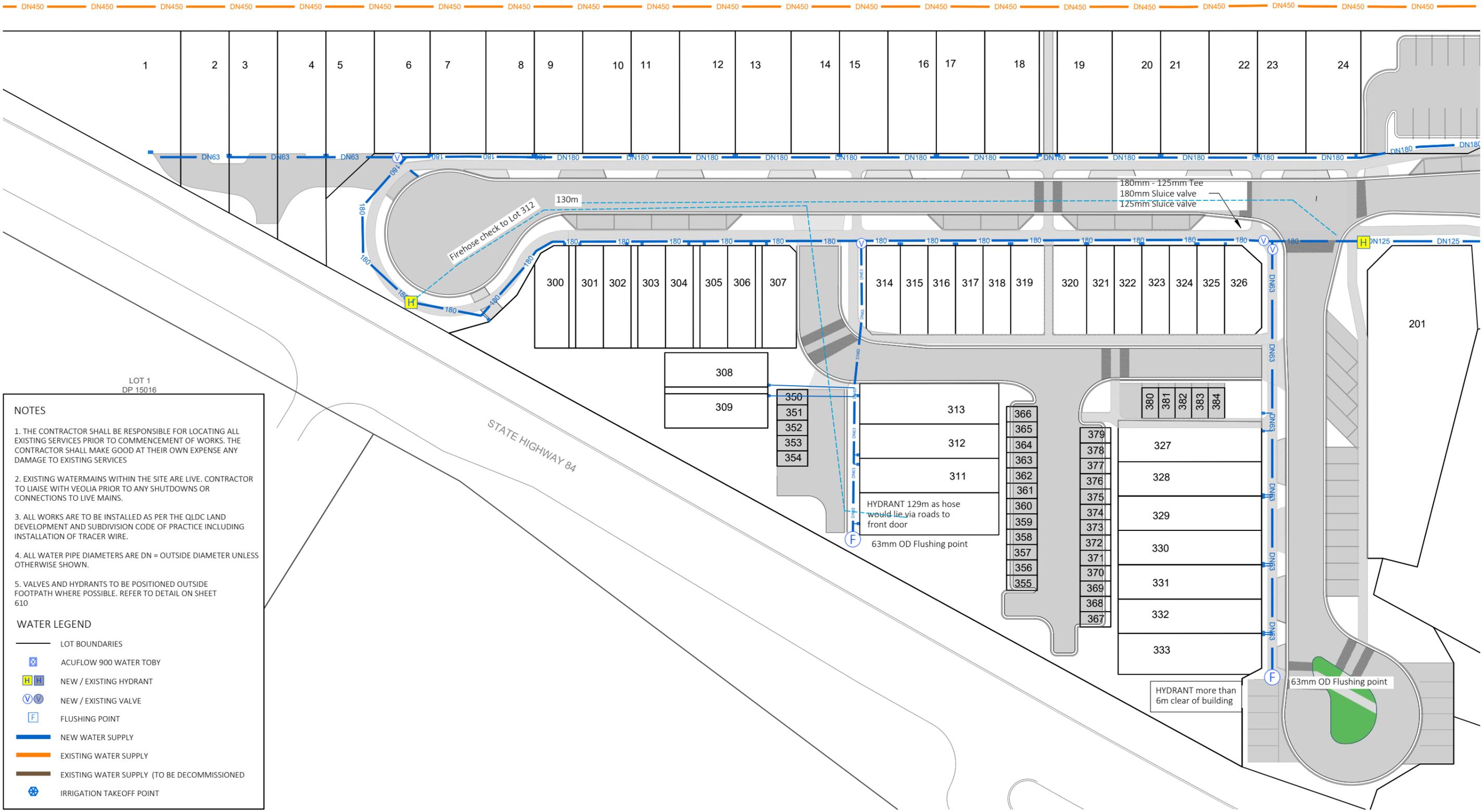
REV DRAWN DATE NOTE  
 01 PHJ 20/02/2026 Fast Track Application  
 STATUS **FOR RESOURCE CONSENT**

SURVEYED LIDAR  
 DESIGNED PHJ  
 DRAWN SS  
 REVIEWED AH  
 APPROVED DLW  
 © Paterson Pitts Limited Partnership

PROJECT **P240103**  
 DRAWING NO **003**  
 SHEET **600**  
 REVISION **1**  
 SCALE (A3) **1:2000**



PT CLOSED ROAD BLOCK IV  
LOWER WANAKA SURVEY DISTRICT



**NOTES**

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING ALL EXISTING SERVICES PRIOR TO COMMENCEMENT OF WORKS. THE CONTRACTOR SHALL MAKE GOOD AT THEIR OWN EXPENSE ANY DAMAGE TO EXISTING SERVICES
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**WATER LEGEND**

- LOT BOUNDARIES
- ☒ ACUFLOW 900 WATER TOBY
- Ⓜ NEW / EXISTING HYDRANT
- Ⓥ NEW / EXISTING VALVE
- Ⓛ FLUSHING POINT
- NEW WATER SUPPLY
- EXISTING WATER SUPPLY
- EXISTING WATER SUPPLY (TO BE DECOMMISSIONED)
- Ⓢ IRRIGATION TAKEOFF POINT



CLIENT  
**MT IRON JUNCTION LTD**  
JUNCTION ROAD, WANAKA

DRAWING TITLE  
**CONSENT ENGINEERING DESIGN**  
**WATER SUPPLY LAYOUT**  
**SHEET A**

DATUM INFORMATION  
COORDINATE SYSTEM NZGD 2000  
LINDIS PEAK CIRCUIT  
DATUM NZVD2016  
ORIGIN OF COORDINATES  
ORIGIN OF LEVELS

REV DRAWN DATE NOTE  
01 PHJ 20/02/2026 Fast Track Application  
STATUS **FOR RESOURCE CONSENT**

SURVEYED LIDAR  
DESIGNED PHJ  
DRAWN SS  
REVIEWED AH  
APPROVED DLW  
© Paterson Pitts Limited Partnership

PROJECT **P240103**  
DRAWING NO **003**  
SHEET **600A**  
REVISION **1**  
SCALE (A3) **1:600**

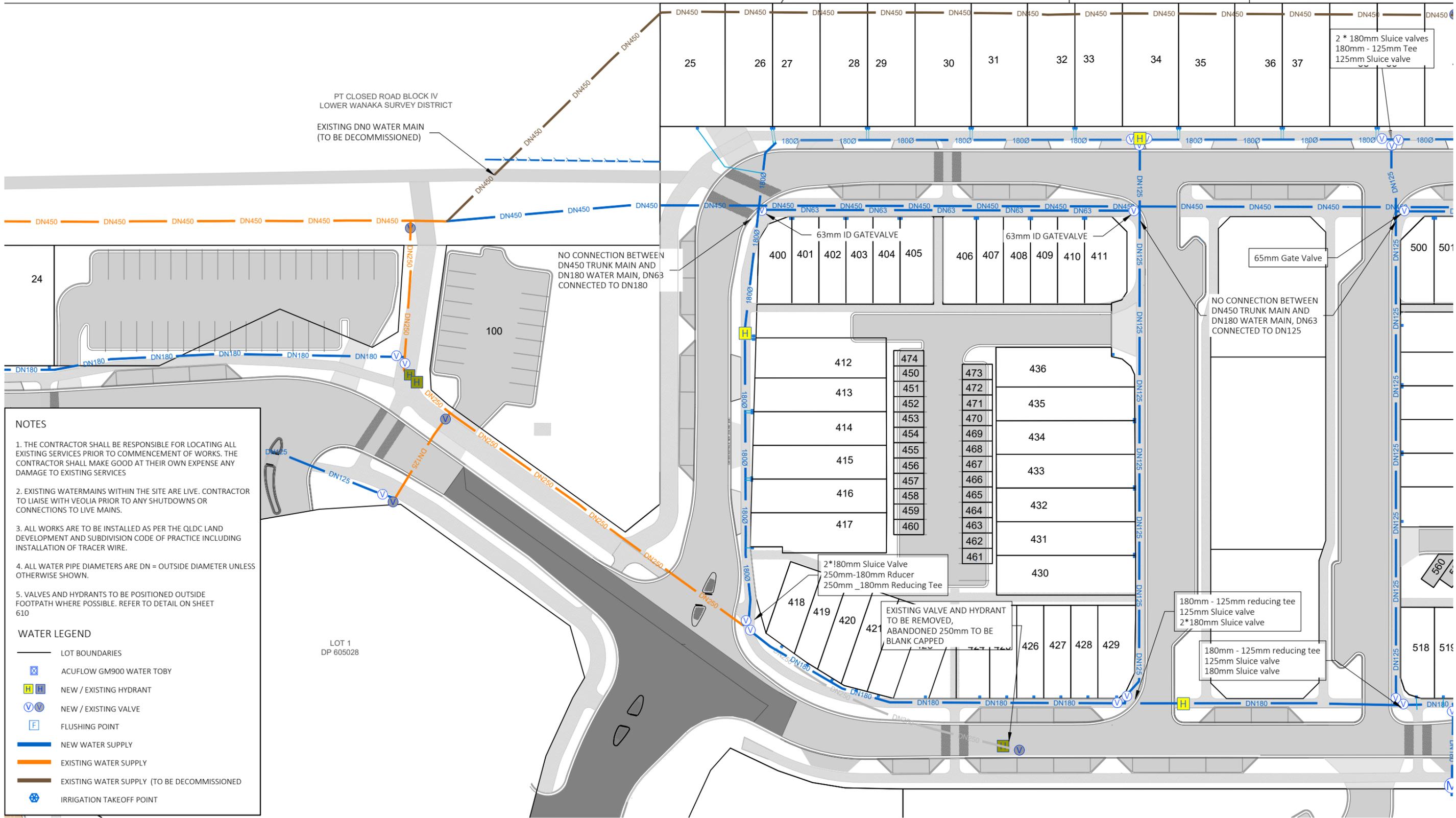


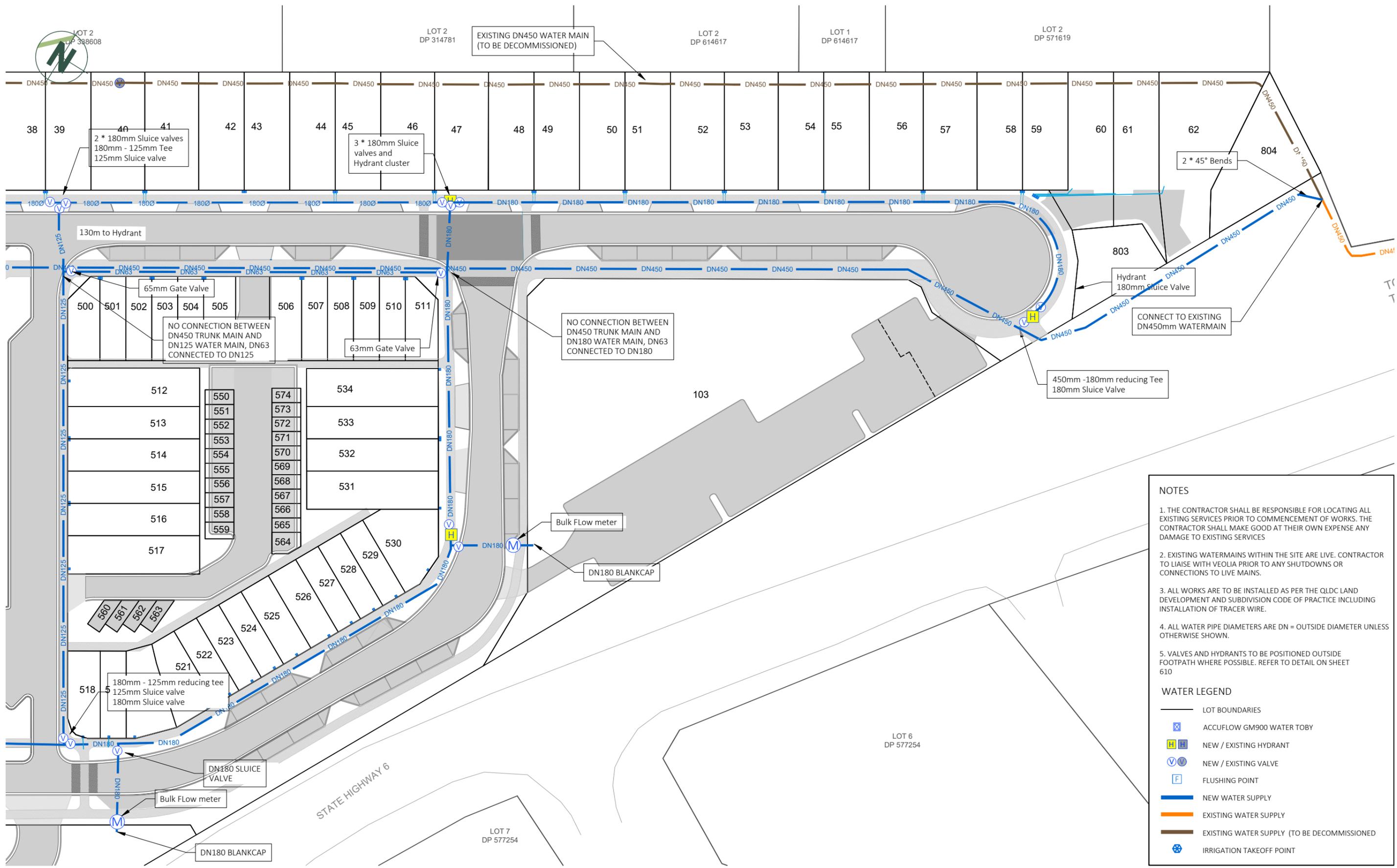
MOUNT IRON  
LOT 2 DP 21892  
CROWN LAND

LOT 1  
DP 572625

LOT 2  
DP 572625

LOT 2  
DP 338608





**NOTES**

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4. ALL WATER PIPE DIAMETERS ARE DN = OUTSIDE DIAMETER UNLESS OTHERWISE SHOWN.
5. VALVES AND HYDRANTS TO BE POSITIONED OUTSIDE FOOTPATH WHERE POSSIBLE. REFER TO DETAIL ON SHEET 610

**WATER LEGEND**

- LOT BOUNDARIES
- ☒ ACCUFLOW GM900 WATER TOBY
- Ⓜ Ⓜ NEW / EXISTING HYDRANT
- Ⓥ Ⓥ NEW / EXISTING VALVE
- Ⓛ FLUSHING POINT
- NEW WATER SUPPLY
- EXISTING WATER SUPPLY
- EXISTING WATER SUPPLY (TO BE DECOMMISSIONED)
- Ⓢ IRRIGATION TAKEOFF POINT



CLIENT  
**MT IRON JUNCTION LTD**  
 JUNCTION ROAD, WANAKA

DRAWING TITLE  
**CONSENT ENGINEERING DESIGN**  
**WATER SUPPLY LAYOUT**  
**SHEET C**

DATUM INFORMATION  
 COORDINATE SYSTEM NZGD 2000  
 LINDIS PEAK CIRCUIT  
 DATUM NZVD2016  
 ORIGIN OF COORDINATES  
 ORIGIN OF LEVELS

REV DRAWN DATE NOTE  
 01 PHJ 20/02/2026 Fast Track Application  
 STATUS **FOR RESOURCE CONSENT**

SURVEYED LIDAR  
 DESIGNED PHJ  
 DRAWN SS  
 REVIEWED AH  
 APPROVED DLW  
 © Paterson Pitts Limited Partnership

PROJECT **P240103**  
 DRAWING NO **003**  
 SHEET **600C**  
 REVISION **1**  
 SCALE (A3) **1:600**





MT IRON  
LOT 2 DP 21892  
CROWN LAND

LOT 1  
DP 572625

LOT 2  
DP 572625

LOT 2  
DP 338608

PT CLOSED ROAD BLOCK IV  
LOWER WANAKA SURVEY DISTRICT

SHIFT EXISTING STREETLIGHT  
TO MINIMUM 0.3m BEHIND  
FOOTPATH AND 0.5m CLEAR  
OF CAR PARK OVERHANG.

SHIFT EXISTING STREETLIGHT  
TO MINIMUM 1M BEHIND  
BACK OF KERB.

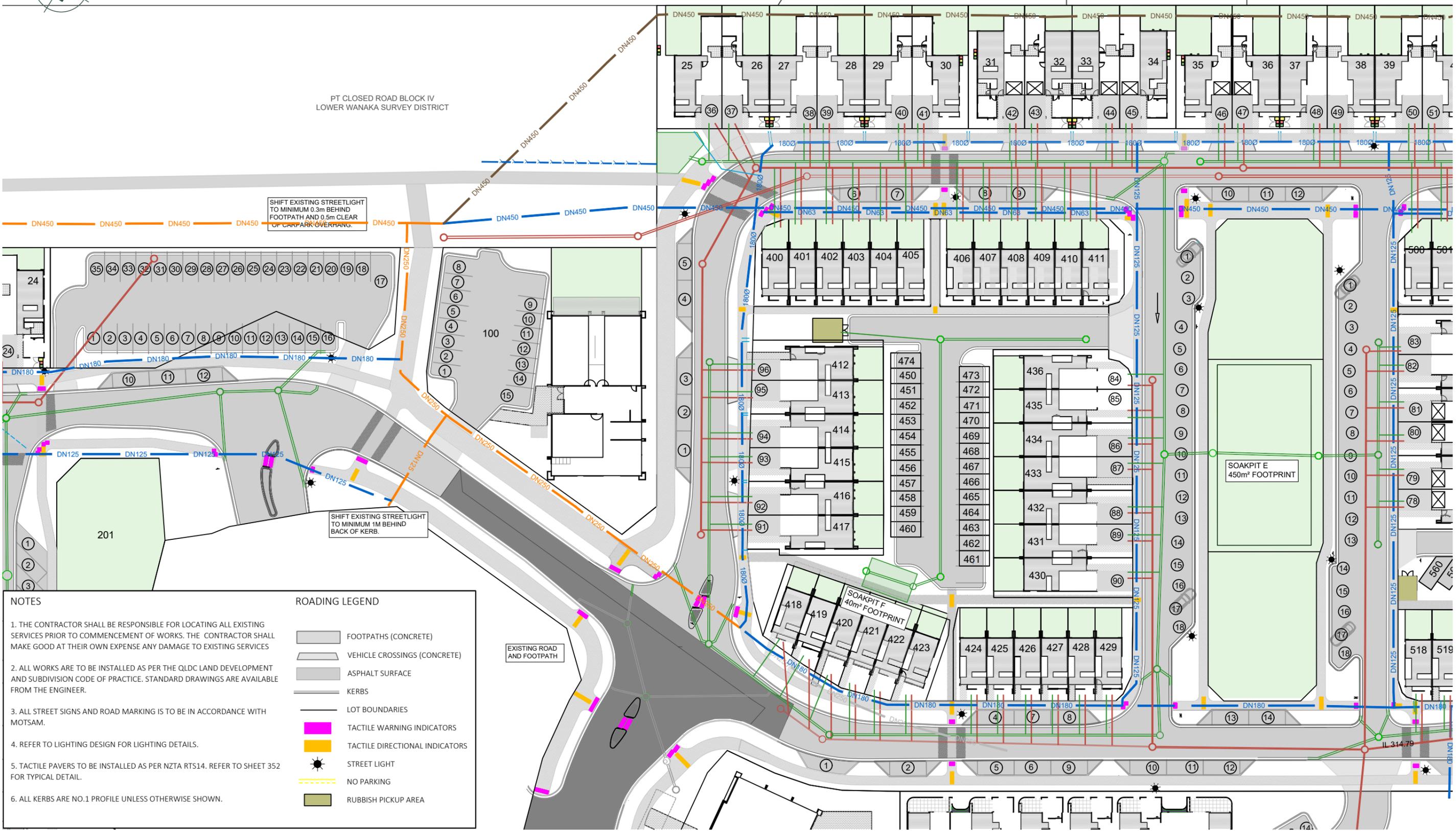
**NOTES**

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2. ALL WORKS ARE TO BE INSTALLED AS PER THE QLDC LAND DEVELOPMENT AND SUBDIVISION CODE OF PRACTICE. STANDARD DRAWINGS ARE AVAILABLE FROM THE ENGINEER.
3. ALL STREET SIGNS AND ROAD MARKING IS TO BE IN ACCORDANCE WITH MOTSAM.
4. REFER TO LIGHTING DESIGN FOR LIGHTING DETAILS.
5. TACTILE PAVERS TO BE INSTALLED AS PER NZTA RTS14. REFER TO SHEET 352 FOR TYPICAL DETAIL.
6. ALL KERBS ARE NO.1 PROFILE UNLESS OTHERWISE SHOWN.

**ROADING LEGEND**

- FOOTPATHS (CONCRETE)
- VEHICLE CROSSINGS (CONCRETE)
- ASPHALT SURFACE
- KERBS
- LOT BOUNDARIES
- TACTILE WARNING INDICATORS
- TACTILE DIRECTIONAL INDICATORS
- STREET LIGHT
- NO PARKING
- RUBBISH PICKUP AREA

EXISTING ROAD  
AND FOOTPATH



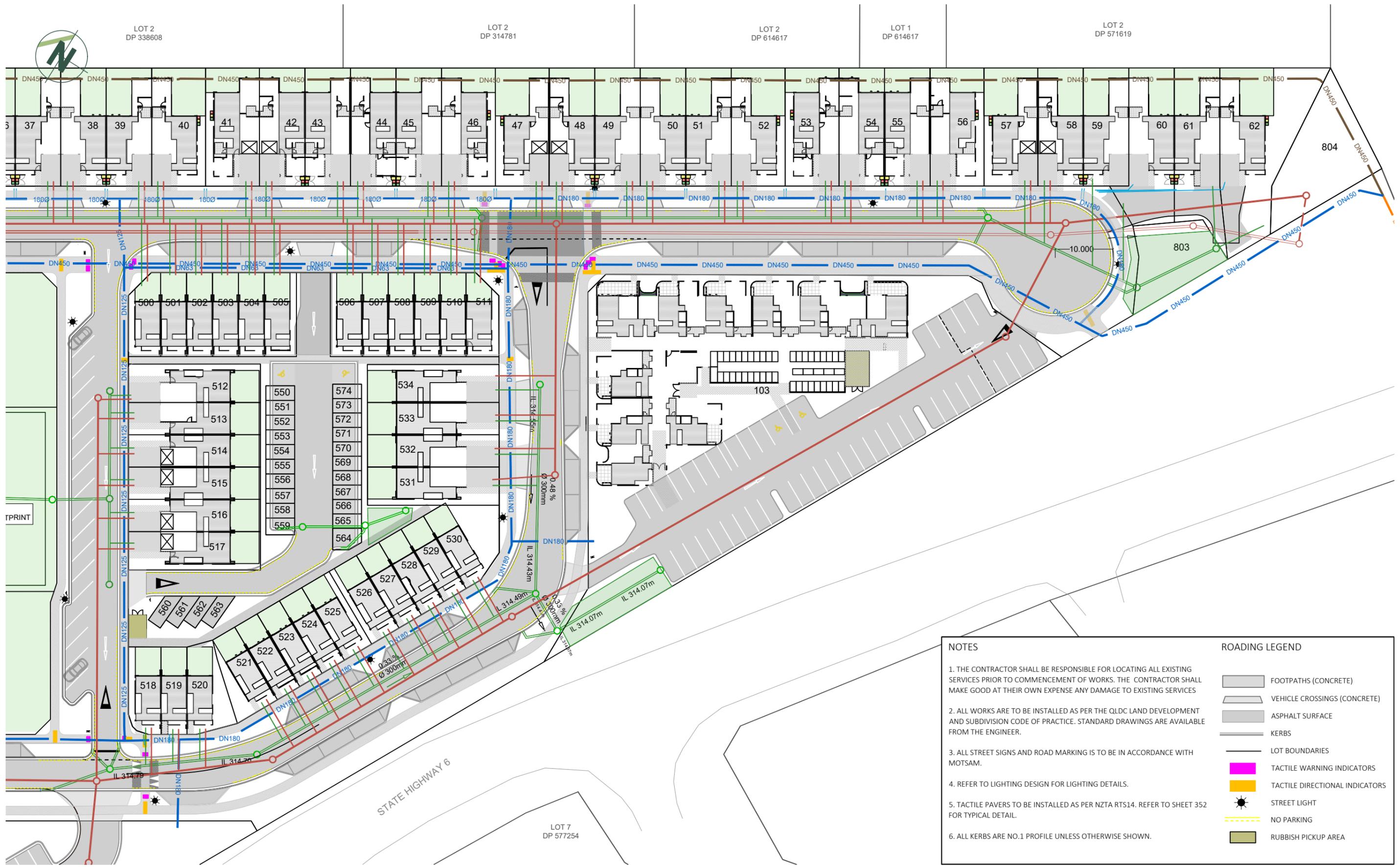
CLIENT  
**MT IRON JUNCTION LTD**  
JUNCTION ROAD, WANAKA

DRAWING TITLE  
**CONSENT ENGINEERING DESIGN  
COMBINED SERVICES LAYOUT  
SHEET B**

DATUM INFORMATION  
COORDINATE SYSTEM NZGD 2000  
LINDIS PEAK CIRCUIT  
DATUM NZVD2016  
ORIGIN OF COORDINATES  
ORIGIN OF LEVELS  
REV 01  
DRAWN PHJ  
DATE 20/02/2026  
NOTE Fast Track Application  
STATUS **FOR RESOURCE CONSENT**

SURVEYED LIDAR  
DESIGNED PHJ  
DRAWN SS  
REVIEWED AH  
APPROVED DLW  
© Paterson Pitts Limited Partnership

PROJECT **P240103**  
DRAWING NO **003**  
SHEET **800B**  
REVISION **1**  
SCALE (A3) **1:600**

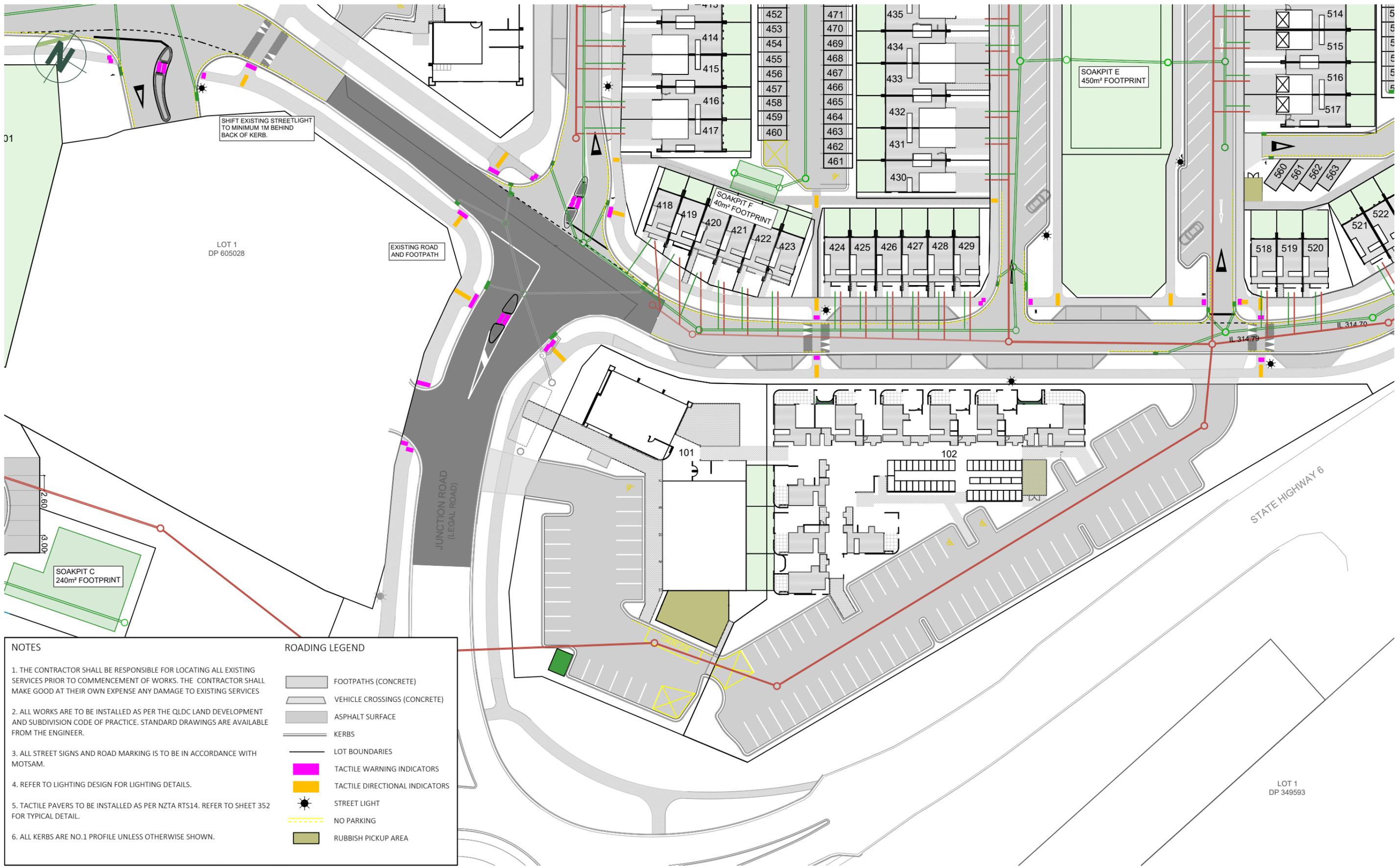


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6. ALL KERBS ARE NO.1 PROFILE UNLESS OTHERWISE SHOWN.

**ROADING LEGEND**

- FOOTPATHS (CONCRETE)
- VEHICLE CROSSINGS (CONCRETE)
- ASPHALT SURFACE
- KERBS
- LOT BOUNDARIES
- TACTILE WARNING INDICATORS
- TACTILE DIRECTIONAL INDICATORS
- STREET LIGHT
- NO PARKING
- RUBBISH PICKUP AREA

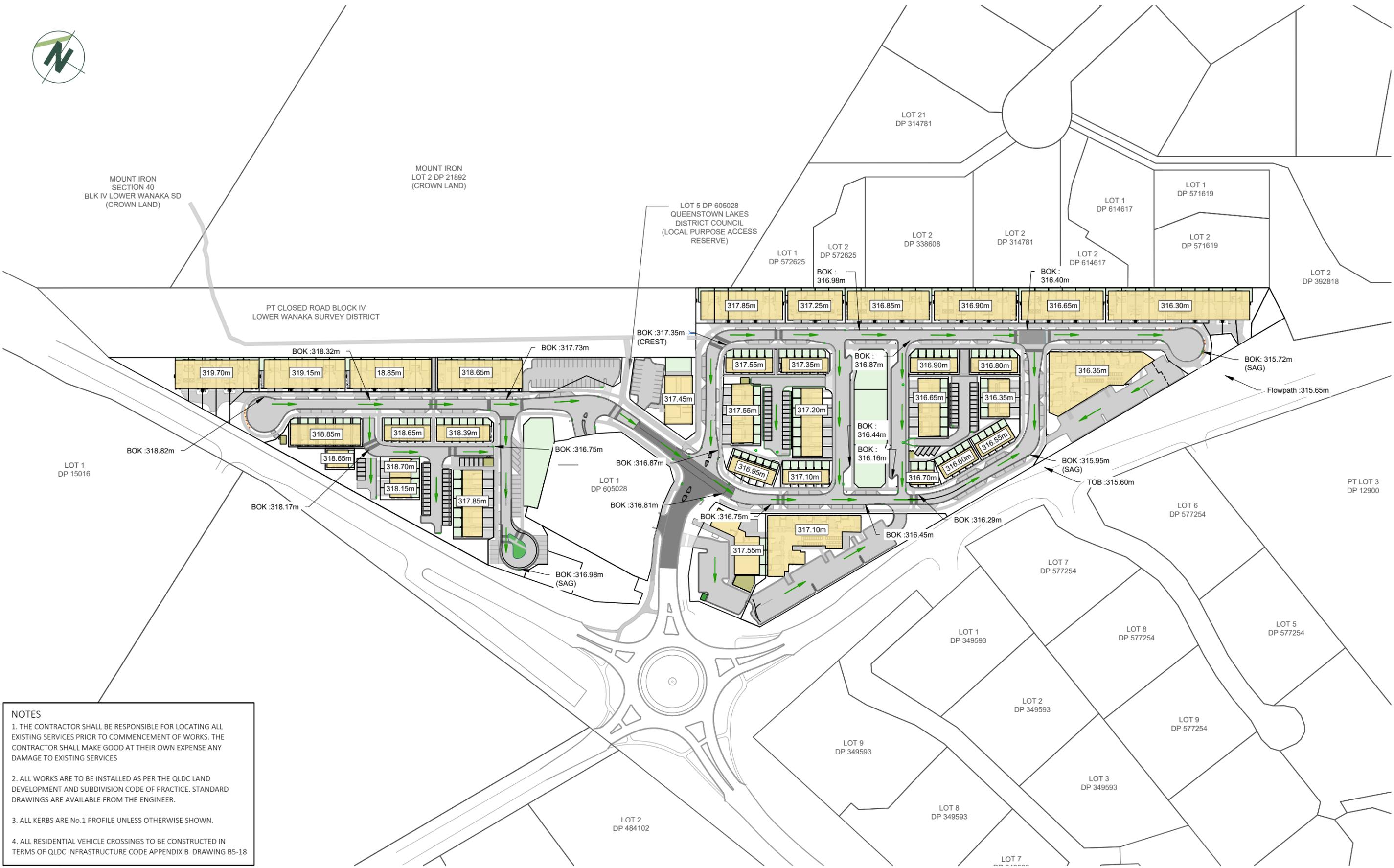


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- FOOTPATHS (CONCRETE)
- VEHICLE CROSSINGS (CONCRETE)
- ASPHALT SURFACE
- KERBS
- LOT BOUNDARIES
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- TACTILE DIRECTIONAL INDICATORS
- STREET LIGHT
- NO PARKING
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3. ALL KERBS ARE No.1 PROFILE UNLESS OTHERWISE SHOWN.
4. ALL RESIDENTIAL VEHICLE CROSSINGS TO BE CONSTRUCTED IN TERMS OF QLDC INFRASTRUCTURE CODE APPENDIX B DRAWING B5-18



CLIENT  
**MT IRON JUNCTION LTD**  
 JUNCTION ROAD, WANAKA

DRAWING TITLE  
**CONSENT ENGINEERING DESIGN**  
**FINISHED FLOOR LEVEL AND**  
**STORMWATER FLOW PLAN**

DATUM INFORMATION  
 COORDINATE SYSTEM NZGD 2000  
 LINDIS PEAK CIRCUIT  
 DATUM NZVD2016  
 ORIGIN OF COORDINATES  
 ORIGIN OF LEVELS

REV	DRAWN	DATE	NOTE
01	PHJ	20/02/2026	Fast Track Application

STATUS **FOR RESOURCE CONSENT**

SURVEYED	LIDAR
DESIGNED PHJ	
DRAWN SS	
REVIEWED AH	
APPROVED DLW	

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PROJECT	P240103
DRAWING NO	003
SHEET	850
REVISION	1
SCALE (A3)	1:2000