

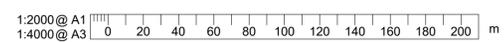


PLAN  
SCALE 1:2000 @ A1

- NOTES:**
- REFER TO SHEET W-SL007.002 FOR PROPOSED TRUNK SEWER LONG SECTION
  - COORDINATES ARE IN TERMS OF NEW ZEALAND TRANSVERSE MERCATOR 2000 CIRCUIT.
  - LEVELS ARE IN TERMS OF METRES AUCKLAND 1946 LOCAL VERTICAL DATUM.
  - DIMENSIONS / DISTANCE ARE IN METRES UNLESS STATED OTHERWISE.
  - IT IS THE CONTRACTOR'S RESPONSIBILITY TO LOCATE ALL EXISTING SERVICES PRIOR TO CONSTRUCTION.
  - DESIGN AT CONCEPT STAGE AND SUBJECT TO CHANGE THROUGH DESIGN PROCESS.
  - NO SURVEY OF THE EXISTING UTILITIES AND FEATURES HAVE BEEN CARRIED OUT.
  - TUNNEL ALIGNMENT SHOWN WITH 2.5m WIDE CORRIDOR EITHER SIDE OF PROPOSED ALIGNMENT.

**KEY:**

PARCEL BOUNDARY	—
EXISTING WATER SUPPLY	— W —
EXISTING LOCAL SEWER	— WSL —
EXISTING TRANSMISSION SEWER	—
EXISTING STORMWATER	— SW —
EXISTING GROUND PROFILE	—
EXISTING EOP	▲
PROPOSED LOCAL SEWER	—
PROPOSED TUNNEL SEWER	—
PROPOSED SEWER MANHOLE	●
PROPOSED SHAFT	●
PROPOSED HERITAGE BUILDING	▨
PROPOSED NOTABLE TREE	▨
TUNNEL 2.5m WIDE CORRIDOR	—
PROPOSED CONSTRUCTION AREA	▨



ISSUE	DATE	AMENDMENT	BY	APPD.	DESIGNED	DATE
2	20.06.23	FINAL ISSUED FOR CONSENT APPLICATION	GI	MK	W.SL DESIGN MGMT	06-23
1	16.02.23	DRAFT ISSUED FOR CONSENT APPLICATION	GI	MK	W.SL PROJ. LEAD	06-23

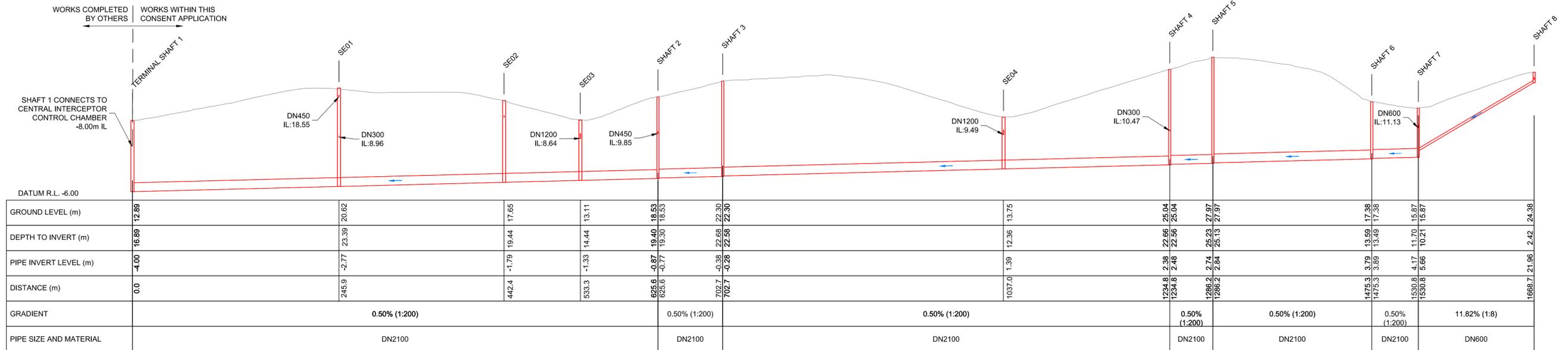
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HERNE BAY TRUNK SEWER UPGRADE  
MARINE PARADE TO PT ERIN  
PROJECT OVERVIEW — PLAN

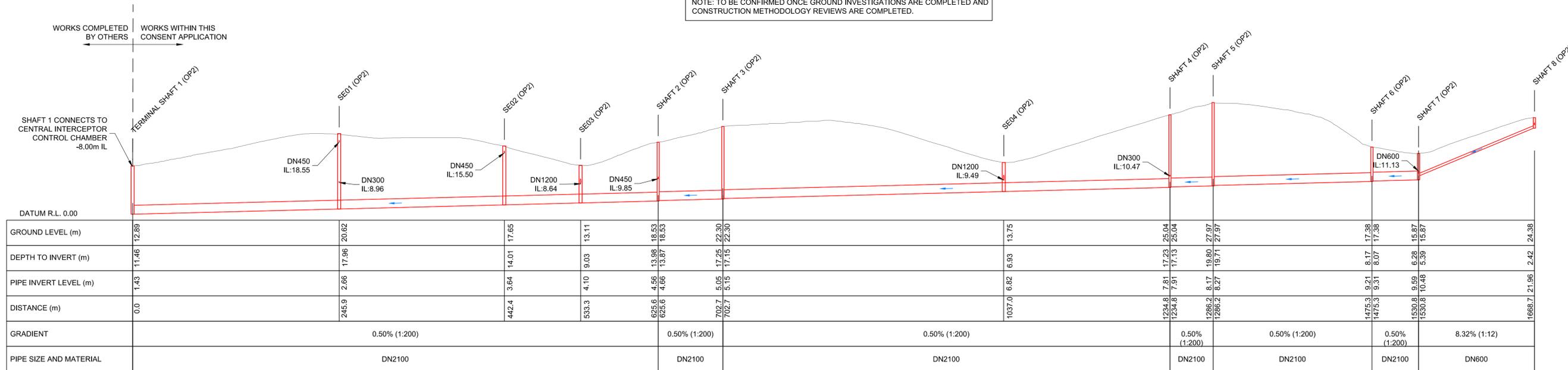
CAD FILE	W-SL007.001	DATE	20-06-23
ORIGINAL SCALE	A1	CONTRACT No.	1
REF. No.	W-SL007.01		
DWG. No.	W-SL007.001	ISSUE	2

POTENTIAL MAXIMUM DEPTH FOR SHAFT 1 IS -8m IL SET BY CENTRAL INTERCEPTOR.

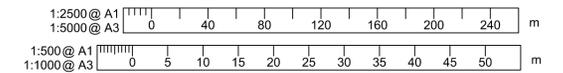


HERNE BAY SEWER TRUNK MAIN LONGITUDINAL SECTION  
**OPTION 1**  
 SCALE 1:2500H 1:500V @ A1

OPTION 1 IS ASSUMED TO BE THE PROBABLE DEPTH OF HERNE BAY TRUNK SEWER BASED ON SET LEVELS FROM CENTRAL INTERCEPTOR TUNNELS AND VERTICAL SETBACK DISTANCE OF SHAFT 1 FROM THE 4.5m DIAMETER CI TUNNEL.  
 NOTE: TO BE CONFIRMED ONCE GROUND INVESTIGATIONS ARE COMPLETED AND CONSTRUCTION METHODOLOGY REVIEWS ARE COMPLETED.



HERNE BAY SEWER TRUNK MAIN LONGITUDINAL SECTION  
**OPTION 2**  
 SCALE 1:2500H 1:500V @ A1



- NOTES:
- REFER TO SHEET W-SL007.002 FOR PROPOSED TRUNK SEWER LONG SECTION
  - COORDINATES ARE IN TERMS OF NEW ZEALAND TRANSVERSE MERCATOR 2000 CIRCUIT.
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  - TUNNEL ALIGNMENT SHOWN WITH 2.5m WIDE CORRIDOR EITHER SIDE OF PROPOSED ALIGNMENT

OPTION 2 IS ASSUMED TO BE THE MINIMUM DEPTH OF HERNE BAY TRUNK SEWER BASED ON HYDRAULIC REQUIREMENTS TO CAPTURE EOP FLOWS.  
 NOTE: TO BE CONFIRMED ONCE GROUND INVESTIGATIONS AND SURVEY ARE COMPLETED AND CONSTRUCTION METHODOLOGY REVIEWS ARE COMPLETED.

ISSUE	DATE	AMENDMENT	BY	APPD.	DATE
2	20.06.23	FINAL ISSUED FOR CONSENT APPLICATION	GI	MK	
1	16.02.23	DRAFT ISSUED FOR CONSENT APPLICATION	GI	MK	

DESIGNED	G.I.P	06-23
DES. APPROVED	C.STOKES	06-23
DRAWN	G.I.P	06-23
DWG. APPROVED	M.KUDOIC	06-23
WSL DESIGN MGMT.	B.DEVILLIERS	-
WSL PROJ. LEAD	-	-

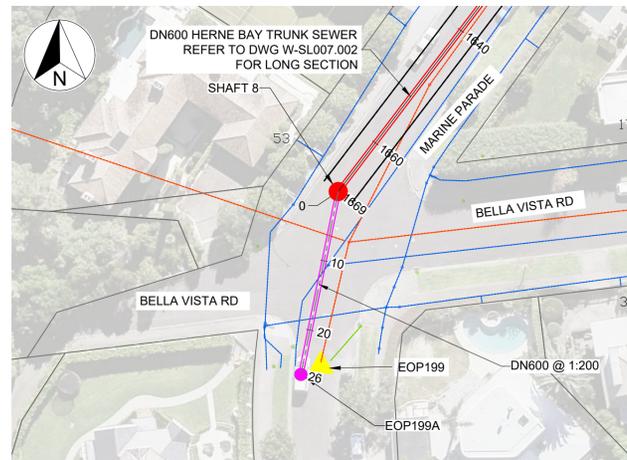
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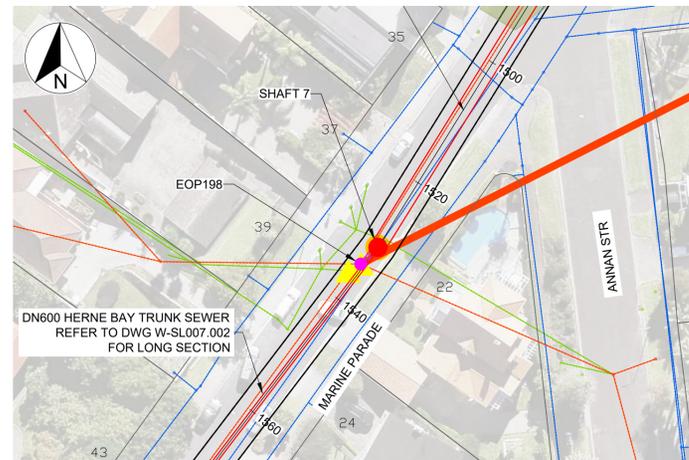
HERNE BAY TRUNK SEWER UPGRADE  
 MARINE PARADE TO PT ERIN  
 LONGITUDINAL SECTION - TRUNK SEWER

CAD FILE	W-SL007.002	DATE	20-06-23
ORIGINAL SCALE	A1 1:2000	CONTRACT No.	1
REF. No.	W-SL007.01		
DWG. No.	W-SL007.002	ISSUE	2

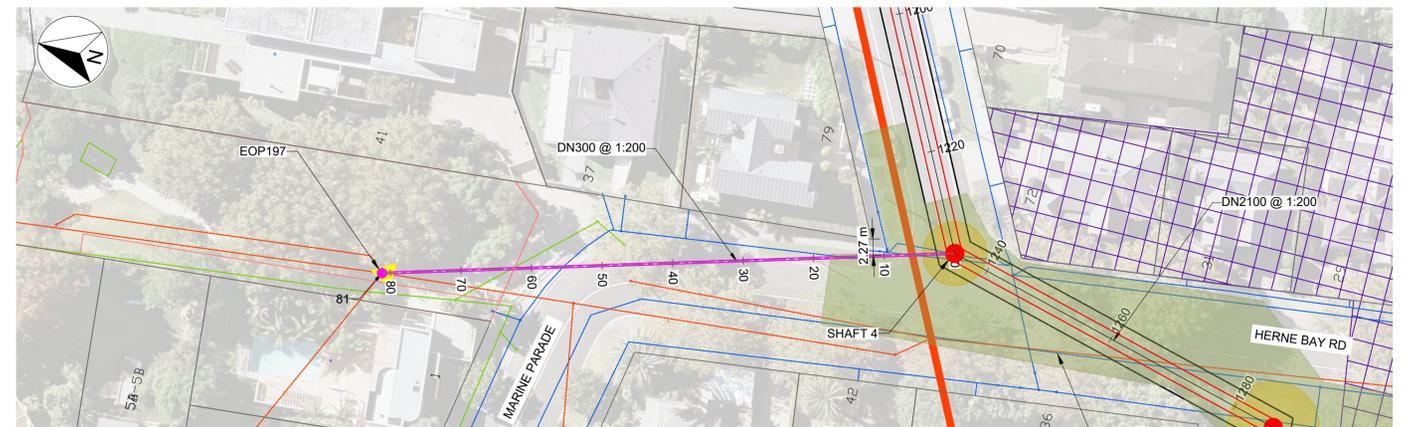
PIPE SIZE OF EOP CONNECTIONS ARE TBC.  
EOP LONG SECTIONS ARE IN RELATION TO OPTION 2 (MINIMUM DEPTH)



**PLAN - EOP 199 - SHAFT 8**  
SCALE 1:500 @ A1

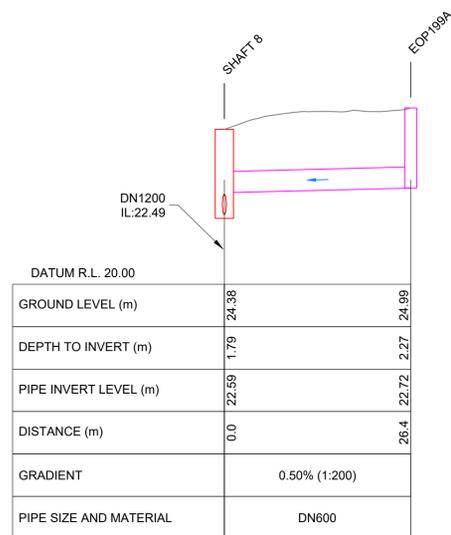


**PLAN - EOP 198 - SHAFT 7**  
SCALE 1:500 @ A1

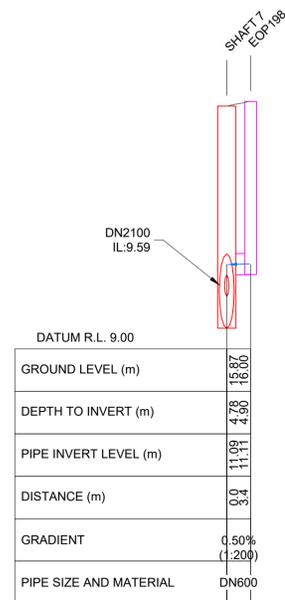


**PLAN - EOP 197 - SHAFT 4**

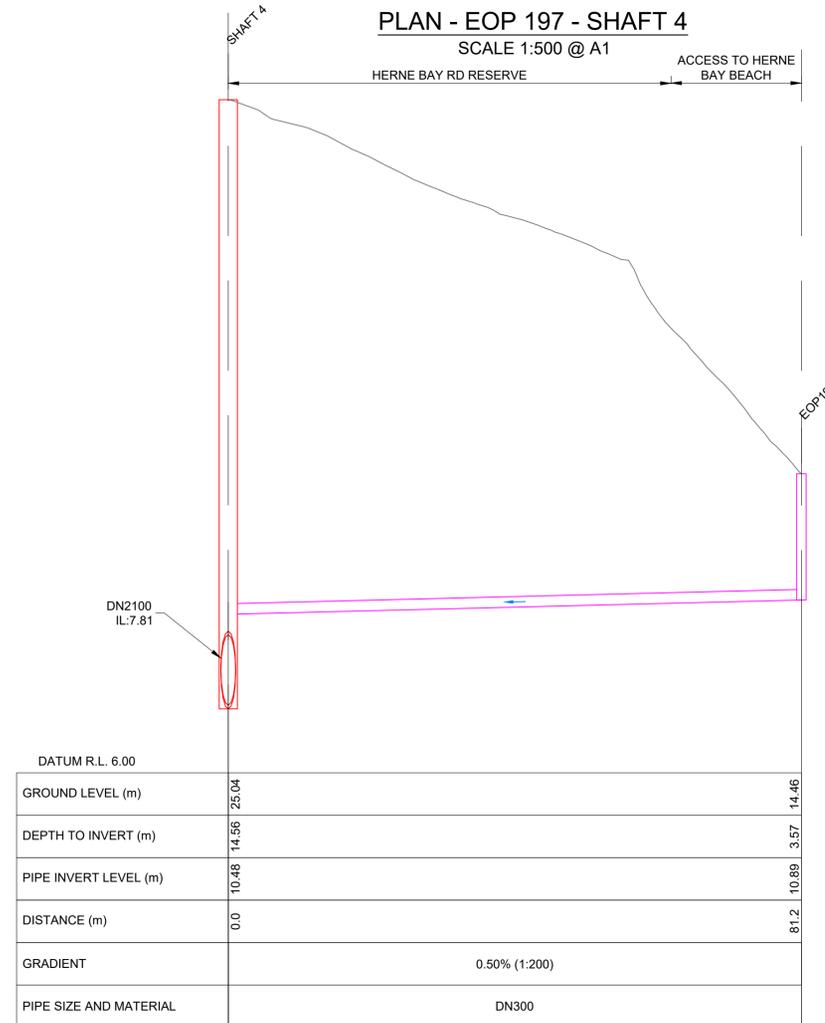
SCALE 1:500 @ A1



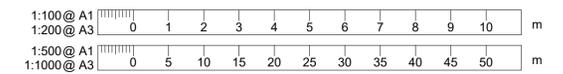
**LONGITUDINAL SECTION**  
**EOP 199 - SHAFT 8**  
SCALE 1:500H 1:100V @ A1



**LONGITUDINAL SECTION**  
**EOP 198 - SHAFT 7**  
SCALE 1:500H 1:100V @ A1



**LONGITUDINAL SECTION**  
**EOP 197 - SHAFT 4**  
SCALE 1:500H 1:100V @ A1



**KEY:**

- PARCEL BOUNDARY
- EXISTING WATER SUPPLY
- EXISTING LOCAL SEWER
- EXISTING TRANSMISSION SEWER
- EXISTING STORMWATER
- EXISTING GROUND PROFILE
- EXISTING EOP
- PROPOSED LOCAL SEWER
- PROPOSED TUNNEL SEWER
- PROPOSED SEWER MANHOLE
- PROPOSED SHAFT
- PROPOSED HERITAGE BUILDING
- PROPOSED NOTABLE TREE
- TUNNEL 2.5m WIDE CORRIDOR
- PROPOSED CONSTRUCTION AREA

- NOTES:**
- REFER TO SHEET W-SL007.002 FOR PROPOSED TRUNK SEWER LONG SECTION
  - COORDINATES ARE IN TERMS OF NEW ZEALAND TRANSVERSE MERCATOR 2000 CIRCUIT.
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ISSUE	DATE	AMENDMENT	BY	APPD.	DESIGNED	G.I.P.	DATE
2	20.06.23	FINAL ISSUED FOR CONSENT APPLICATION	GI	MK	W.SL DESIGN MGMT	B.DEVILLIERS	06-23
1	16.02.23	DRAFT ISSUED FOR CONSENT APPLICATION	GI	MK	W.SL PROJ. LEAD	-	06-23

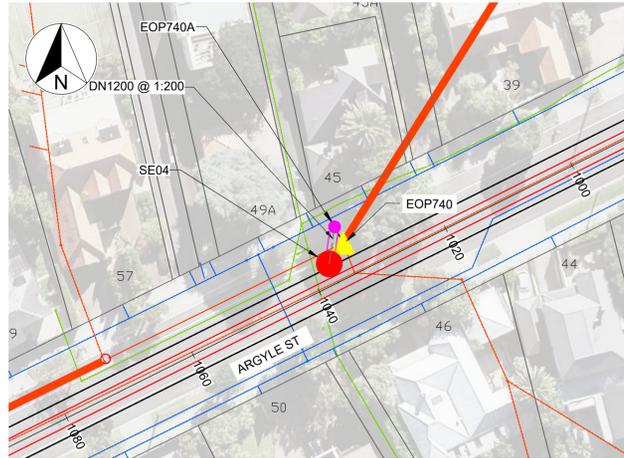
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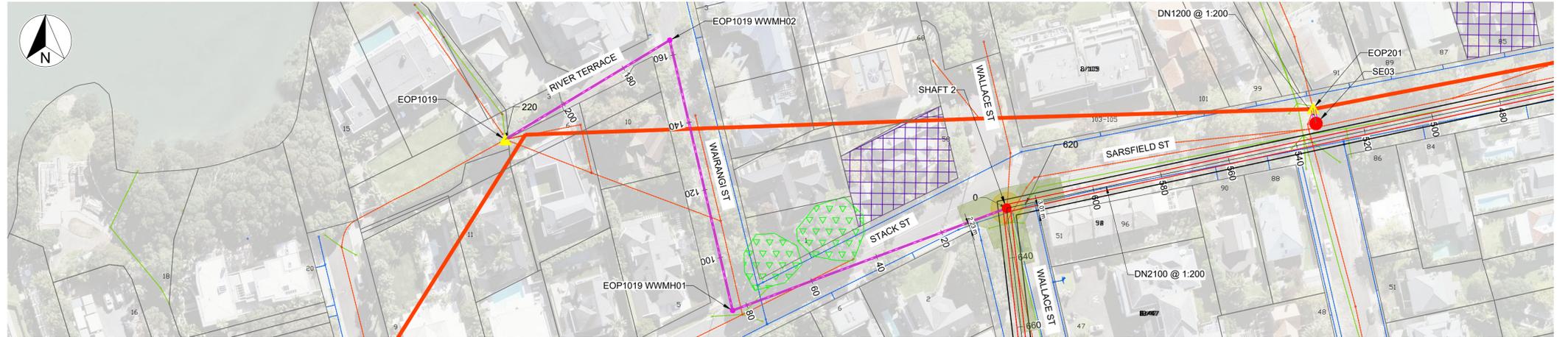
HERNE BAY TRUNK SEWER UPGRADE  
MARINE PARADE TO PT ERIN  
LONGITUDINAL SECTIONS - LOCAL NETWORK SHEET 1

CAD FILE	W-SL007.003	DATE	20-06-23
ORIGINAL SCALE	A1 1:500	CONTRACT No.	1
REF. No.	W-SL007.01		
DWG. No.	W-SL007.003	ISSUE	2

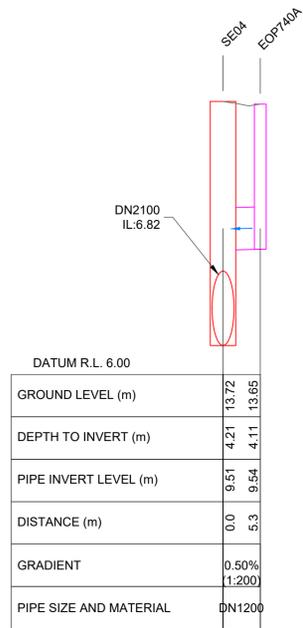
PIPE SIZE OF EOP CONNECTIONS ARE TBC.  
EOP LONG SECTIONS ARE IN RELATION TO OPTION 2 (MINIMUM DEPTH)



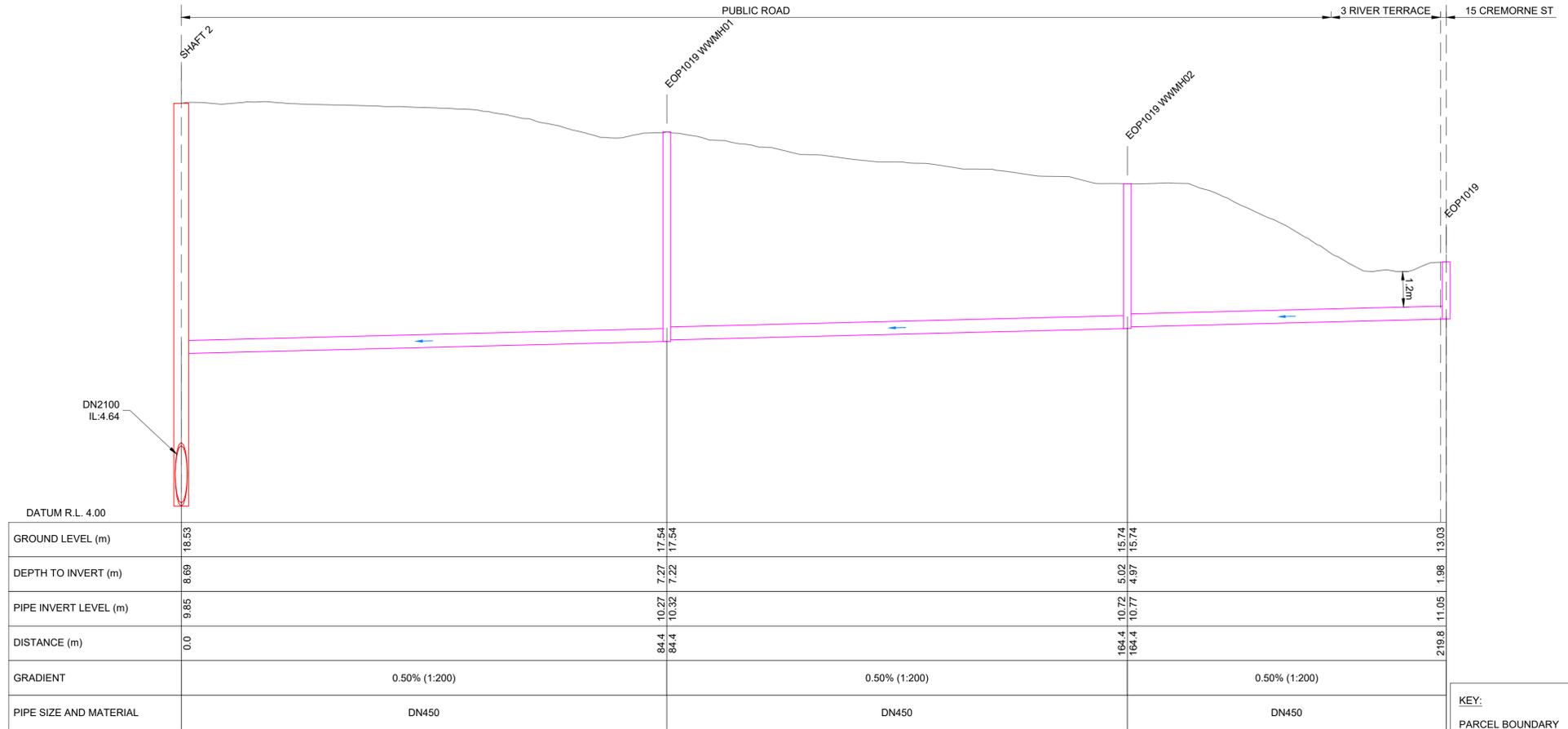
PLAN - EOP 740 - SE04  
SCALE 1:500 @ A1



PLAN - EOP 1019 - SHAFT 2  
SCALE 1:750 @ A1



LONGITUDINAL SECTION  
EOP 740 - SE04  
SCALE 1:500 1:100V @ A1

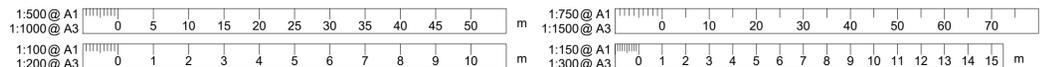


LONGSECTIONS SHOWN HERE ARE  
FOR DESIGN OPTION 1 IN W-SL007.002

LONGITUDINAL SECTION  
EOP 1019 - SHAFT 2  
SCALE 1:500H 1:100V @ A1

NOTES:

- REFER TO SHEET W-SL007.002 FOR PROPOSED TRUNK SEWER LONG SECTION
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- KEY:
- PARCEL BOUNDARY
  - EXISTING WATER SUPPLY
  - EXISTING LOCAL SEWER
  - EXISTING TRANSMISSION SEWER
  - EXISTING STORMWATER
  - EXISTING GROUND PROFILE
  - EXISTING EOP
  - PROPOSED LOCAL SEWER
  - PROPOSED TUNNEL MANHOLE
  - PROPOSED SEWER MANHOLE
  - PROPOSED SHAFT
  - PROPOSED HERITAGE BUILDING
  - PROPOSED NOTABLE TREE
  - TUNNEL 2.5m WIDE CORRIDOR
  - PROPOSED CONSTRUCTION AREA

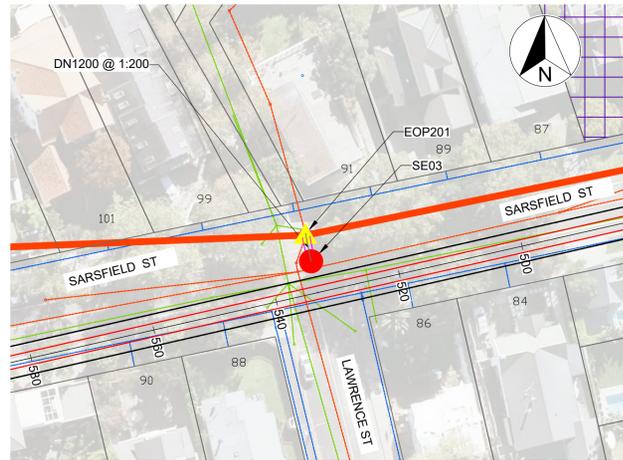
ISSUE	DATE	AMENDMENT	BY	APPD.	DESIGNED	DATE
2	20.06.23	FINAL ISSUED FOR CONSENT APPLICATION	GI	MK	W.SL DESIGN MGMT	06-23
1	16.02.23	DRAFT ISSUED FOR CONSENT APPLICATION	GI	MK	W.SL PROJ. LEAD	06-23

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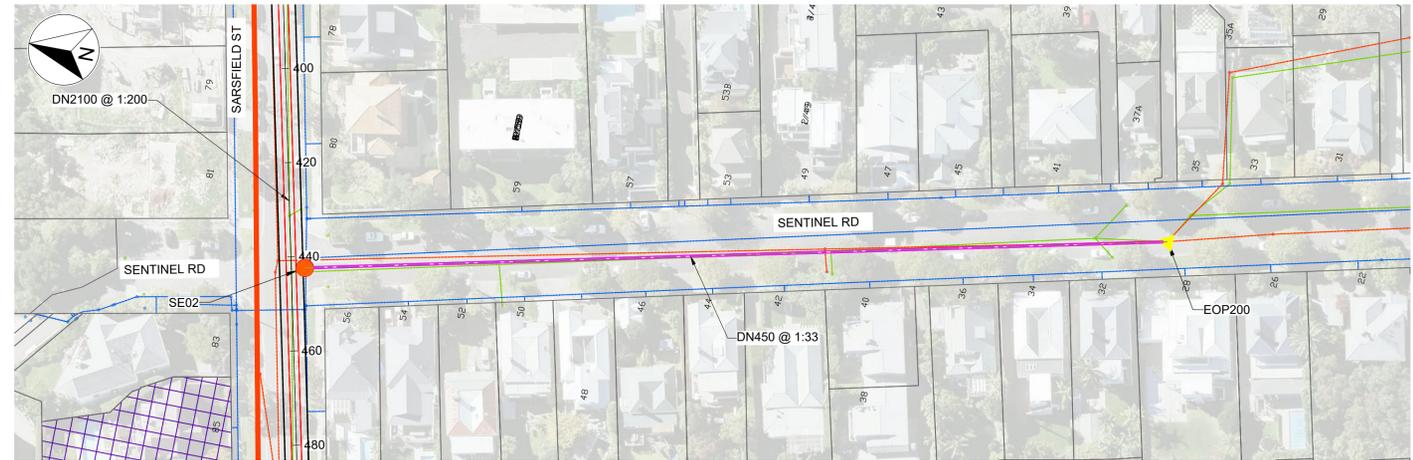
HERNE BAY TRUNK SEWER UPGRADE  
MARINE PARADE TO PT ERIN  
LONGITUDINAL SECTIONS - LOCAL NETWORK SHEET 2

CAD FILE	W-SL007.004	DATE	20-06-23
ORIGINAL SCALE	A1	CONTRACT No.	1
REF. No.	W-SL007.01		
DWG. No.	W-SL007.004	ISSUE	2

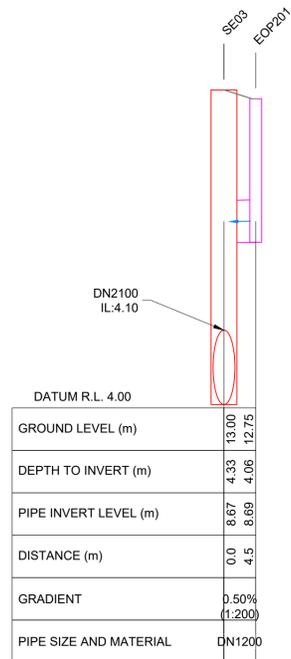
PIPE SIZE OF EOP CONNECTIONS ARE TBC.  
EOP LONG SECTIONS ARE IN RELATION TO OPTION 2 (MINIMUM DEPTH)



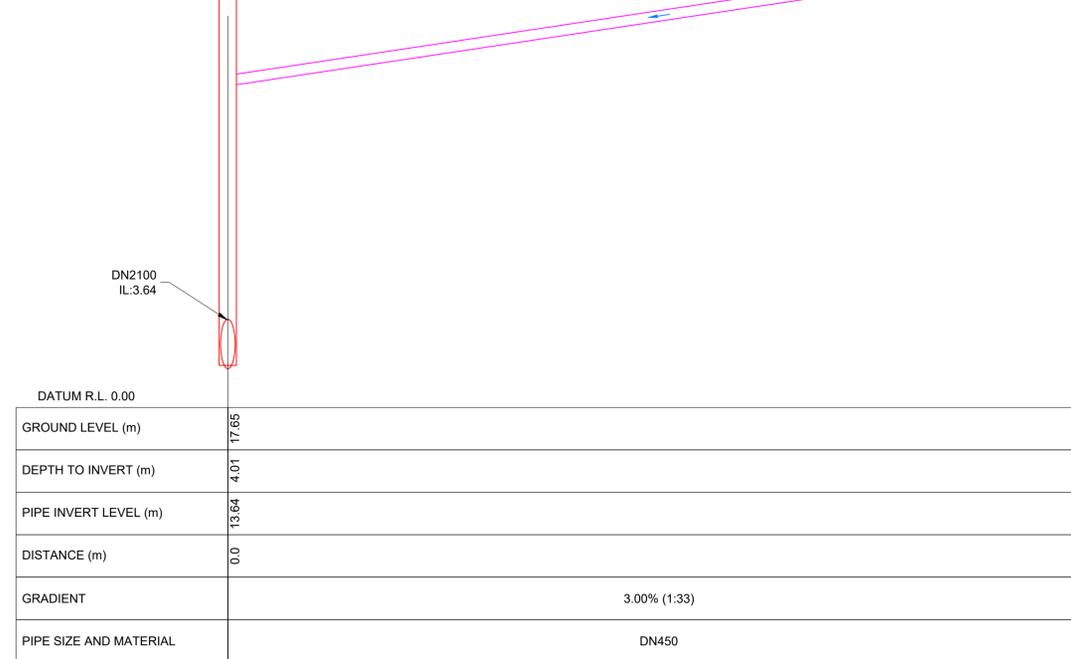
PLAN - EOP 201 - SE03  
SCALE 1:500 @ A1



PLAN - EOP 200 - SE02  
SCALE 1:750 @ A1



LONGITUDINAL SECTION  
EOP201 - SE03  
SCALE 1:500H 1:100V @ A1

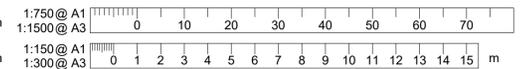
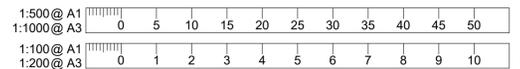


LONGITUDINAL SECTION  
EOP200 - SE02  
SCALE 1:750H 1:150V @ A1

LONGSECTIONS SHOWN HERE  
ARE FOR DESIGN OPTION 1 IN  
W-SL007.002

NOTES:

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- TUNNEL ALIGNMENT SHOWN WITH 2.5m WIDE CORRIDOR EITHER SIDE OF PROPOSED ALIGNMENT.



KEY:

PARCEL BOUNDARY	—
EXISTING WATER SUPPLY	— W —
EXISTING LOCAL SEWER	— WSL —
EXISTING TRANSMISSION SEWER	— SW —
EXISTING STORMWATER	— SW —
EXISTING GROUND PROFILE	—
EXISTING EOP	—
PROPOSED LOCAL SEWER	—
PROPOSED TUNNEL SEWER	—
PROPOSED SEWER MANHOLE	—
PROPOSED SHAFT	—
PROPOSED HERITAGE BUILDING	—
PROPOSED NOTABLE TREE	—
TUNNEL 2.5m WIDE CORRIDOR	—
PROPOSED CONSTRUCTION AREA	—

ISSUE	DATE	AMENDMENT	BY	APPD.	BY	DATE
2	20.06.23	FINAL ISSUED FOR CONSENT APPLICATION	GI	MK	WSL DESIGN MGMT	B.DEVILLIERS
1	16.02.23	DRAFT ISSUED FOR CONSENT APPLICATION	GI	MK	WSL PROJ. LEAD	-

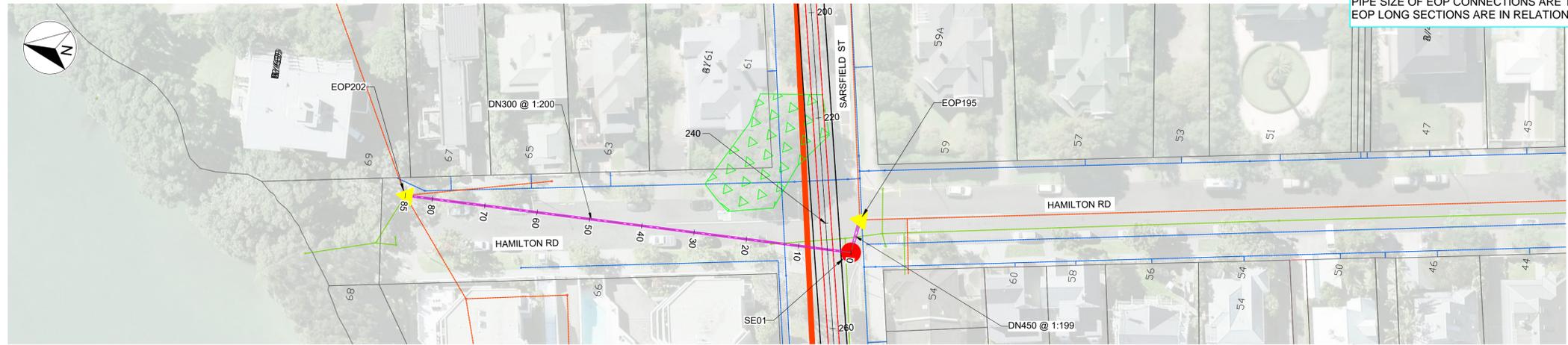
DESIGNED G.I.P 06-23  
DES. APPROVED C.STOKES 06-23  
DRAWN G.I.P 06-23  
DWG. APPROVED M.KUDOIC 06-23

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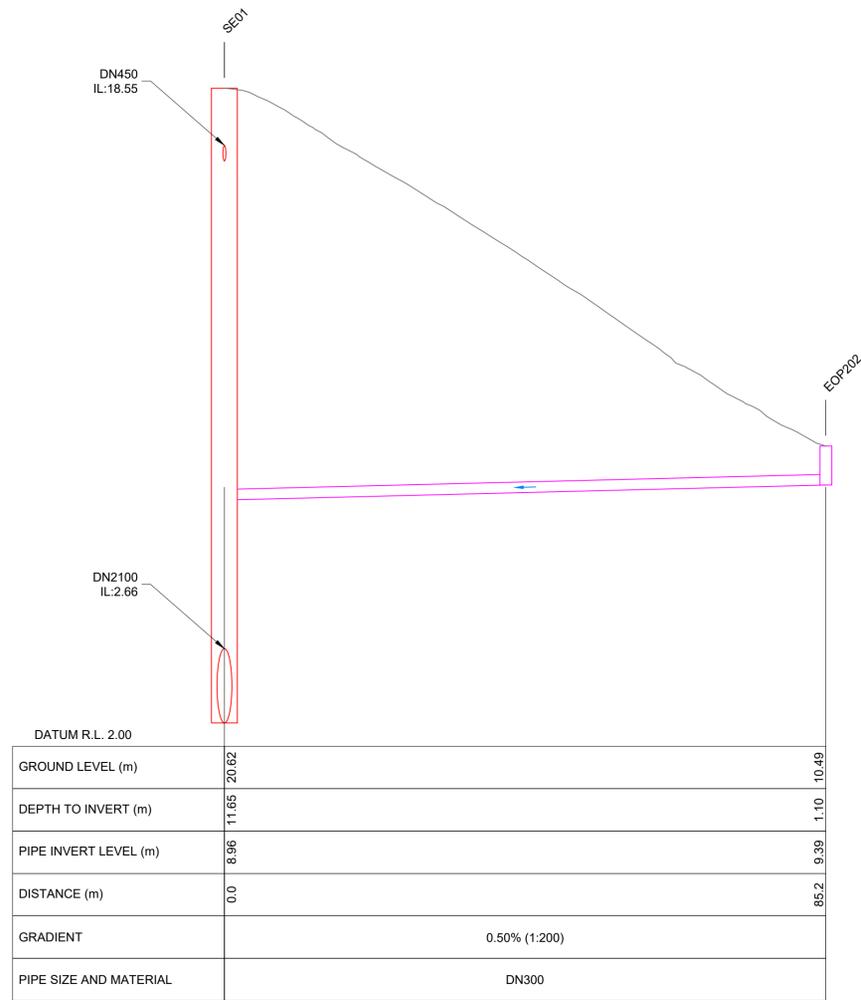
HERNE BAY TRUNK SEWER UPGRADE  
MARINE PARADE TO PT ERIN  
LONGITUDINAL SECTIONS - LOCAL NETWORK SHEET 3

CAD FILE	W-SL007.005	DATE	20-06-23
ORIGINAL SCALE	A1	CONTRACT No.	1
REF. No.	W-SL007.01		
DWG. No.	W-SL007.005	ISSUE	2

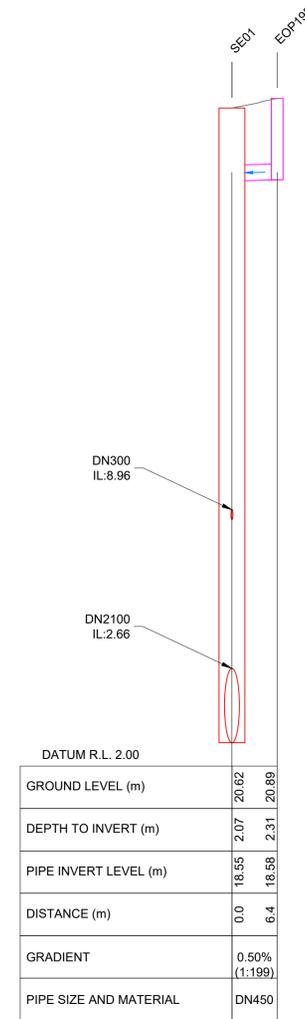
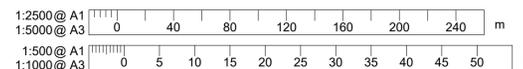


PIPE SIZE OF EOP CONNECTIONS ARE TBC.  
EOP LONG SECTIONS ARE IN RELATION TO OPTION 2 (MINIMUM DEPTH)

PLAN - EOP202 AND EOP 195 - SE01  
SCALE 1:500 @ A1



LONGITUDINAL SECTION  
EOP202 - SE01  
SCALE 1:500H 1:100V @ A1



LONGITUDINAL SECTION  
EOP 195 - SE01  
SCALE 1:500H 1:100V @ A1

KEY:

PARCEL BOUNDARY	
EXISTING WATER SUPPLY	
EXISTING LOCAL SEWER	
EXISTING TRANSMISSION SEWER	
EXISTING STORMWATER	
EXISTING GROUND PROFILE	
EXISTING EOP	
PROPOSED LOCAL SEWER	
PROPOSED TUNNEL SEWER	
PROPOSED SEWER MANHOLE	
PROPOSED SHAFT	
PROPOSED HERITAGE BUILDING	
PROPOSED NOTABLE TREE	
TUNNEL 2.5m WIDE CORRIDOR	
PROPOSED CONSTRUCTION AREA	

LONGSECTIONS SHOWN HERE  
ARE FOR DESIGN OPTION 1 IN  
W-SL007.002

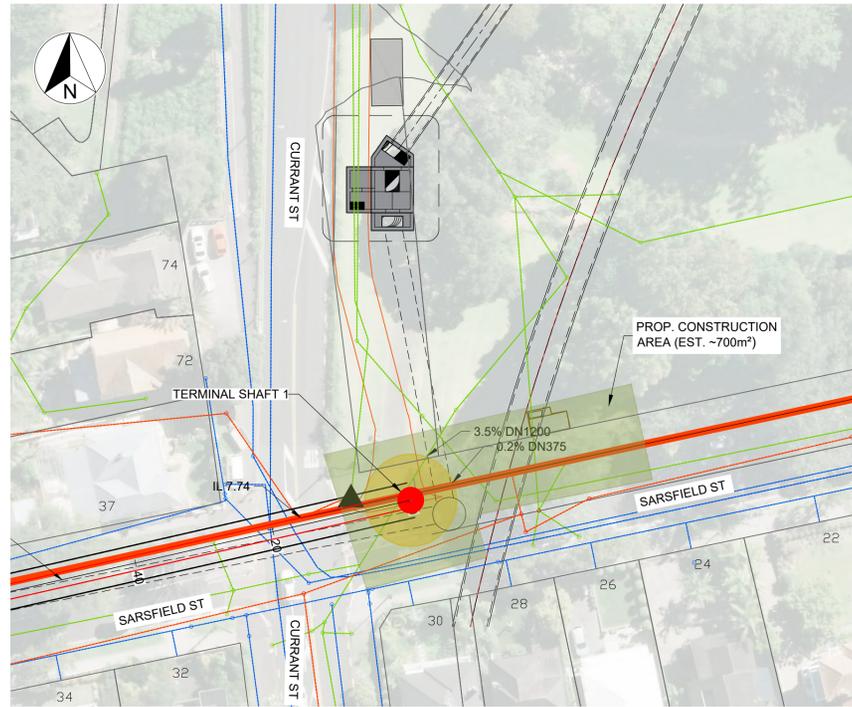
- NOTES:
- REFER TO SHEET W-SL007.002 FOR PROPOSED TRUNK SEWER LONG SECTION
  - COORDINATES ARE IN TERMS OF NEW ZEALAND TRANSVERSE MERCATOR 2000 CIRCUIT.
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1	16.02.23	DRAFT ISSUED FOR CONSENT APPLICATION	GI	MK	W.SL PROJ. LEAD	-	06-23

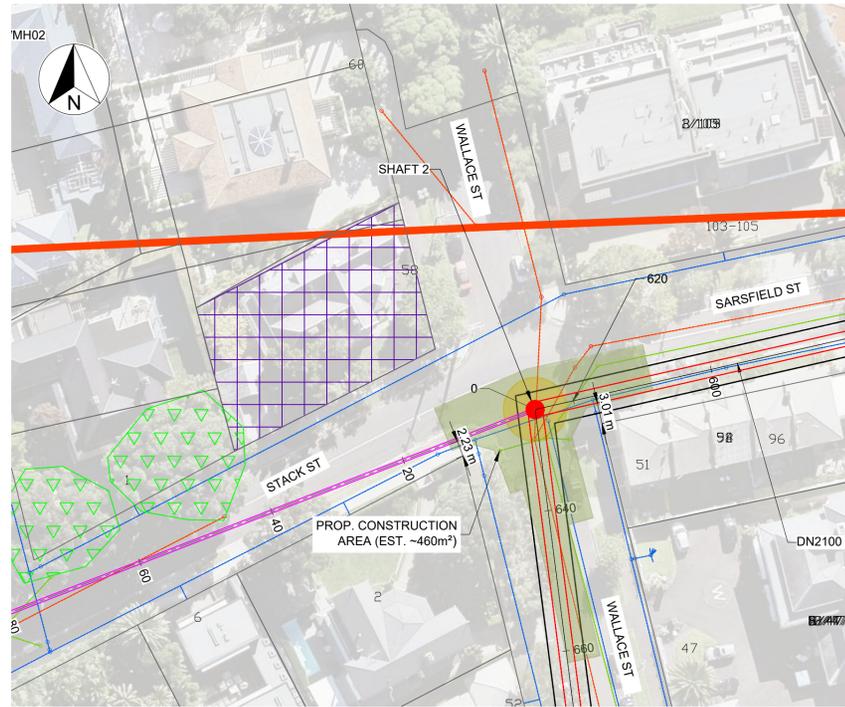
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HERNE BAY TRUNK SEWER UPGRADE  
HAMILTON ROAD, HERNE BAY  
LONGITUDINAL SECTIONS - LOCAL NETWORK SHEET 4

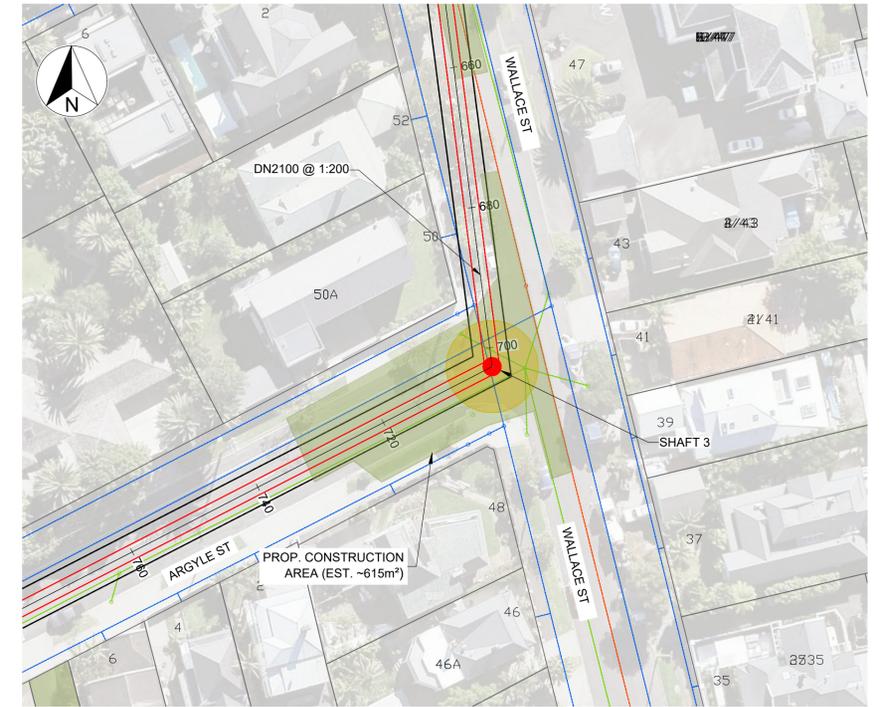
CAD FILE	W-SL007.006	DATE	20-06-23
ORIGINAL SCALE	A1	CONTRACT No.	1
SCALE	1:2000		
REF. No.	W-SL007.01		
DWG. No.	W-SL007.006	ISSUE	2



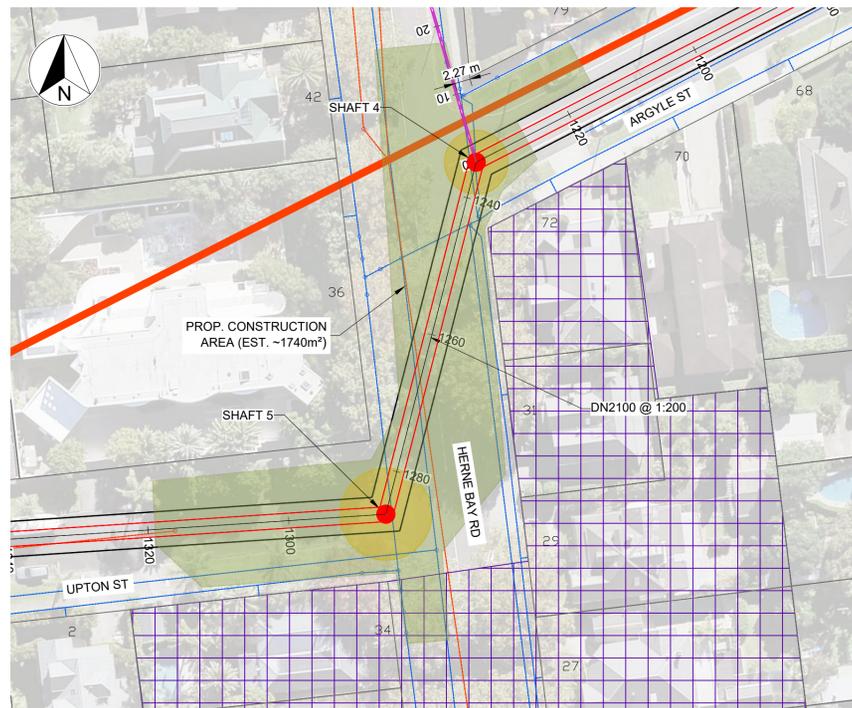
**SHAFT 1 LOCATION**  
SCALE 1:500 @ A1



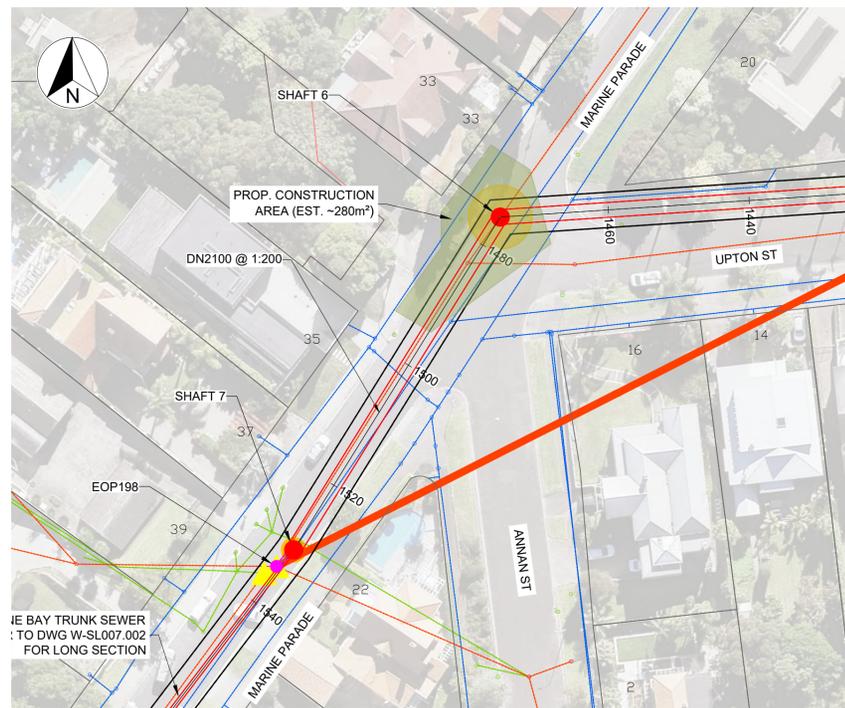
**SHAFT 2 LOCATION**  
SCALE 1:500 @ A1



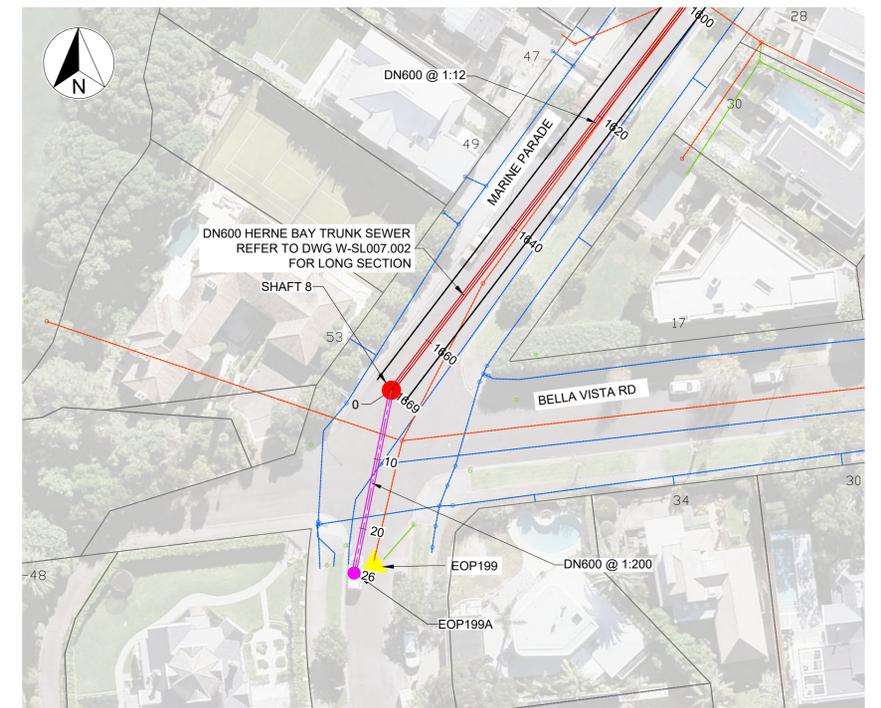
**SHAFT 3 LOCATION**  
SCALE 1:500 @ A1



**SHAFT 4 & 5 LOCATION**  
SCALE 1:500 @ A1



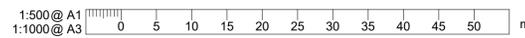
**SHAFT 6 & 7 LOCATION**  
SCALE 1:500 @ A1



**SHAFT 8 LOCATION**  
SCALE 1:500 @ A1

**NOTES:**

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- TUNNEL ALIGNMENT SHOWN WITH 2.5m WIDE CORRIDOR EITHER SIDE OF PROPOSED ALIGNMENT.



**KEY:**

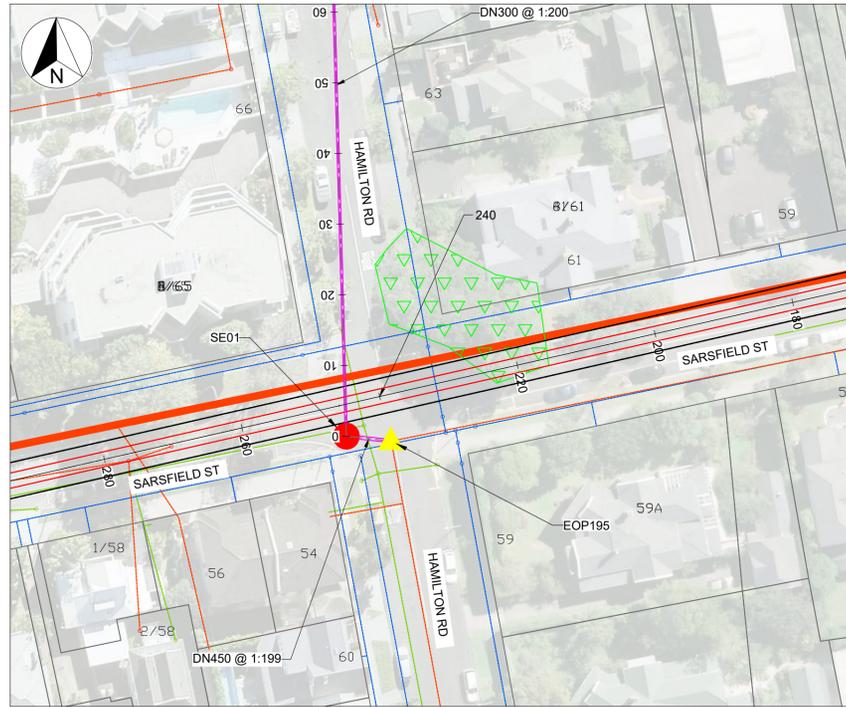
PARCEL BOUNDARY	—
EXISTING WATER SUPPLY	— W —
EXISTING LOCAL SEWER	— WSL —
EXISTING TRANSMISSION SEWER	— TS —
EXISTING STORMWATER	— SW —
EXISTING GROUND PROFILE	— GP —
EXISTING EOP	— EOP —
PROPOSED LOCAL SEWER	—
PROPOSED TUNNEL SEWER	—
PROPOSED SEWER MANHOLE	●
PROPOSED SHAFT	●
PROPOSED HERITAGE BUILDING	▣
PROPOSED NOTABLE TREE	▣
TUNNEL 2.5m WIDE CORRIDOR	—
PROPOSED CONSTRUCTION AREA	■

ISSUE	DATE	AMENDMENT	BY	APPD.	DESIGNED	DATE
2	20.06.23	FINAL ISSUED FOR CONSENT APPLICATION	GI	MK	W.SL DESIGN MGMT	06-23
1	16.02.23	DRAFT ISSUED FOR CONSENT APPLICATION	GI	MK	W.SL PROJ. LEAD	06-23

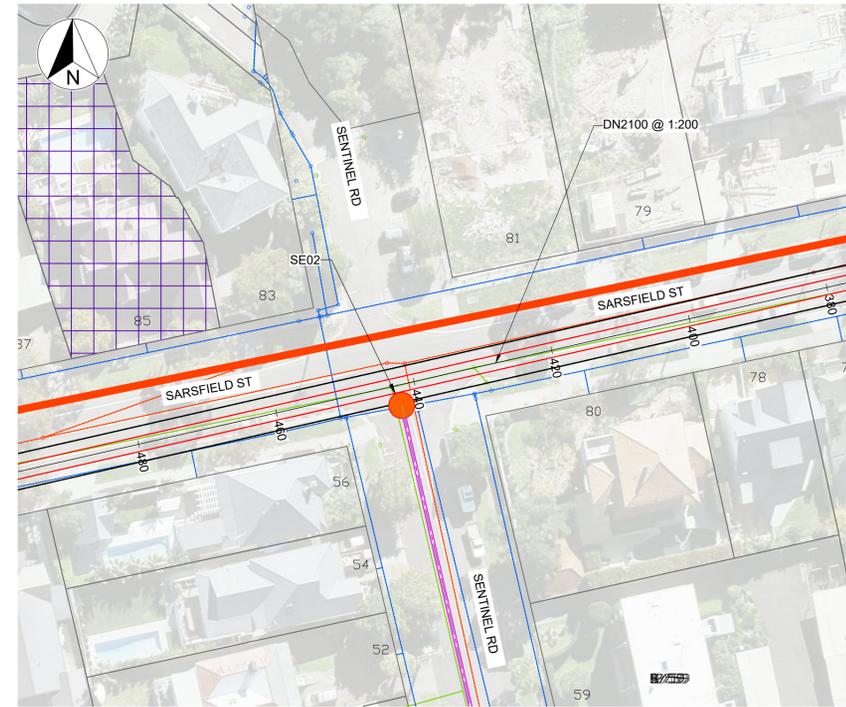
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**HERNE BAY TRUNK SEWER UPGRADE**  
HAMILTON ROAD, HERNE BAY  
CONSTRUCTION PLAN – TUNNEL SHAFT LOCATIONS

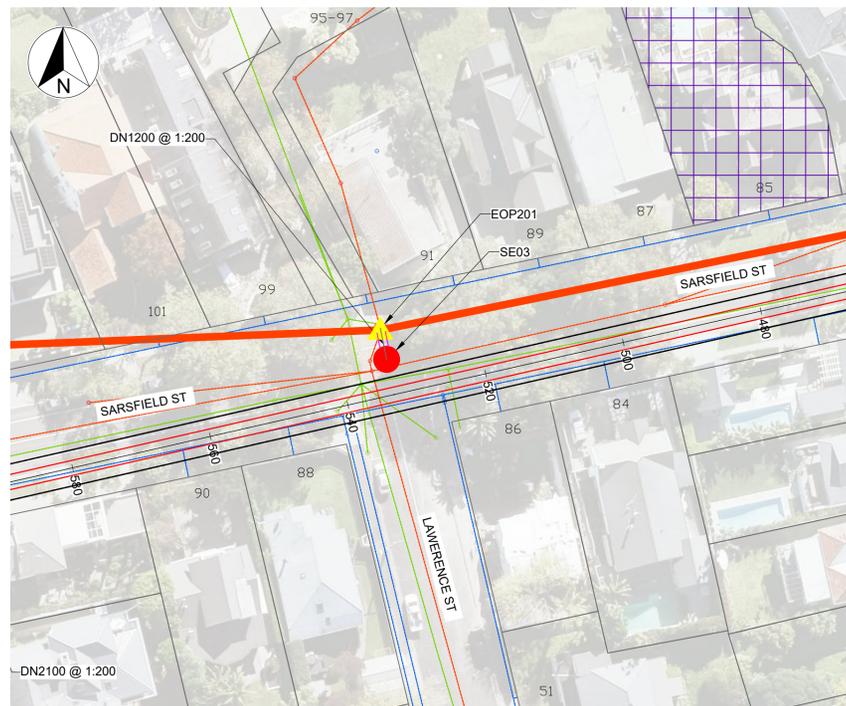
CAD FILE	W-SL007.007	DATE	20-06-23
ORIGINAL SCALE	A1	CONTRACT No.	1
REF. No.	W-SL007.01		
DWG. No.	W-SL007.007	ISSUE	2



**SHAFT SE01**  
SCALE 1:500 @ A1



**SHAFT SE02**  
SCALE 1:500 @ A1



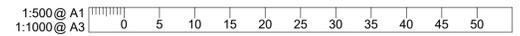
**SHAFT SE03**  
SCALE 1:500 @ A1



**SHAFT SE04**  
SCALE 1:500 @ A1

**NOTES:**

1. REFER TO SHEET W-SL007.002 FOR PROPOSED TRUNK SEWER LONG SECTION
2. COORDINATES ARE IN TERMS OF NEW ZEALAND TRANSVERSE MERCATOR 2000 CIRCUIT.
3. LEVELS ARE IN TERMS OF METRES AUCKLAND 1946 LOCAL VERTICAL DATUM.
4. DIMENSIONS / DISTANCE ARE IN METRES UNLESS STATED OTHERWISE
5. IT IS THE CONTRACTORS RESPONSIBILITY TO LOCATE ALL EXISTING SERVICES PRIOR TO CONSTRUCTION.
6. DESIGN AT CONCEPT STAGE AND SUBJECT TO CHANGE THROUGH DESIGN PROCESS.
7. NO SURVEY OF THE EXISTING UTILITIES AND FEATURES HAVE BEEN CARRIED OUT.
8. TUNNEL ALIGNMENT SHOWN WITH 2.5m WIDE CORRIDOR EITHER SIDE OF PROPOSED ALIGNMENT.



KEY:	
PARCEL BOUNDARY	—
EXISTING WATER SUPPLY	— W —
EXISTING LOCAL SEWER	— WSL —
EXISTING TRANSMISSION SEWER	— SW —
EXISTING STORMWATER	— SW —
EXISTING GROUND PROFILE	—
EXISTING EOP	▲
PROPOSED LOCAL SEWER	—
PROPOSED TUNNEL SEWER	—
PROPOSED SEWER MANHOLE	●
PROPOSED SHAFT	●
PROPOSED HERITAGE BUILDING	▨
PROPOSED NOTABLE TREE	▨
TUNNEL 2.5m WIDE CORRIDOR	—
PROPOSED CONSTRUCTION AREA	■

ISSUE	DATE	AMENDMENT	BY	APPD.	DESIGNED	G.I.P.	DATE
2	20.06.23	FINAL ISSUED FOR CONSENT APPLICATION	GI	MK	W.SL DESIGN MGMT	B.DEVILLIERS	—
1	16.02.23	DRAFT ISSUED FOR CONSENT APPLICATION	GI	MK	W.SL PROJ. LEAD	—	—

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HERNE BAY TRUNK SEWER UPGRADE  
 HAMILTON ROAD, HERNE BAY  
 CONSTRUCTION PLAN – INTERCEPTION SHAFT LOCATIONS

CAD FILE	W-SL007	DATE	20-06-23
ORIGINAL SCALE	A1	CONTRACT No.	1
REF. No.	W-SL007.01		
DWG. No.	W-SL007.008	ISSUE	2