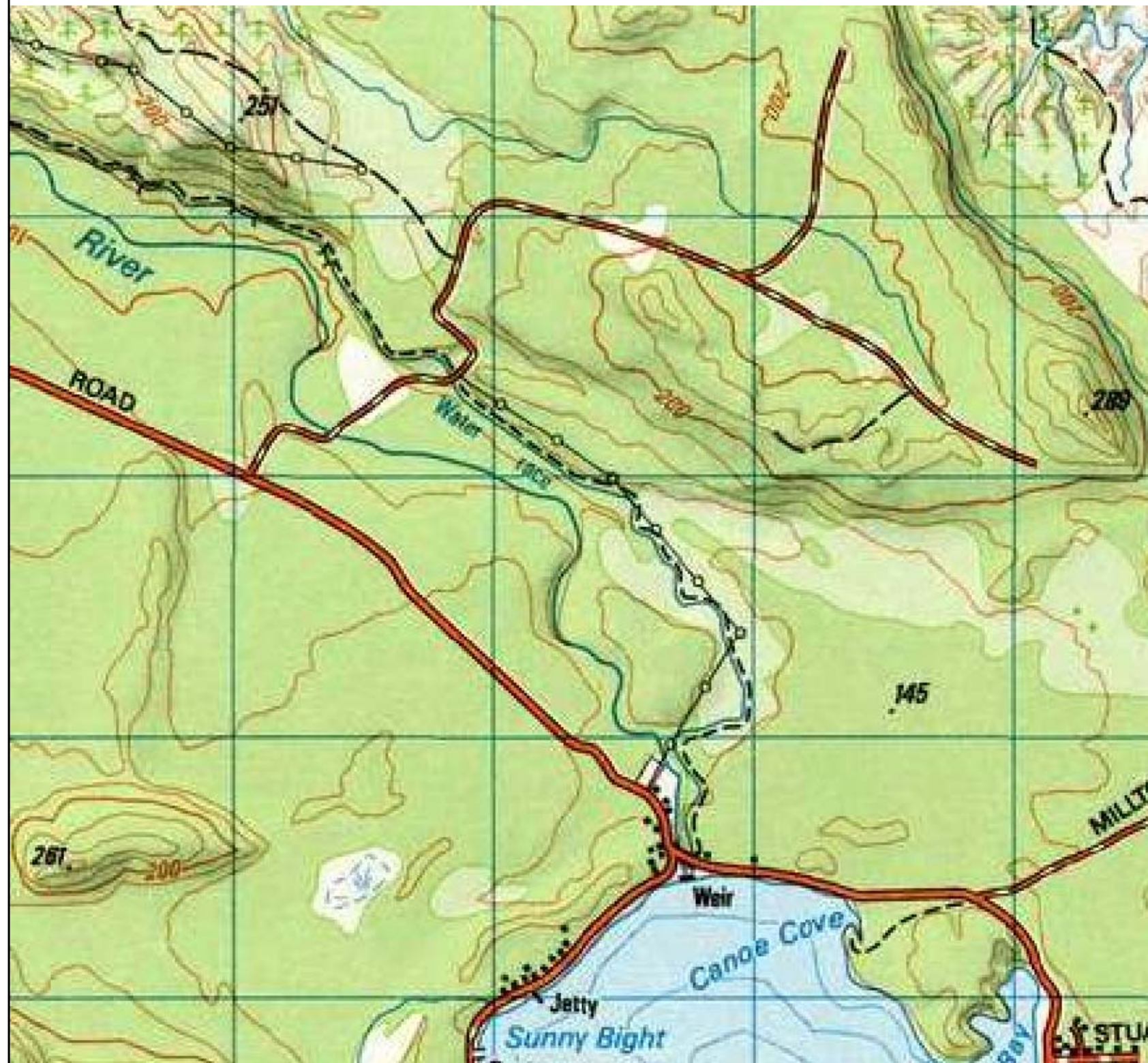


TRUSTPOWER LTD. KANIERE FORKS HYDRO SCHEME 8 CUMEC ENHANCEMENT

JULY 2010



LOCATION PLAN
SCALE 1:20000

DRAWING NUMBER	DRAWING NAME	DRAWING REVISION
10KNF/RUG-00	OVERALL LOCATION PLAN & DRAWING LIST	3
10KNF/RUG-100	REFERENCE PLAN FOR SHEETS 110 to 113	0
10KNF/RUG-110	CANAL PLAN 8 CUMEC ENHANCEMENT - SHEET 1 OF 4	3
10KNF/RUG-111	CANAL PLAN 8 CUMEC ENHANCEMENT - SHEET 2 OF 4	3
10KNF/RUG-112	CANAL PLAN 8 CUMEC ENHANCEMENT - SHEET 3 OF 4	3
10KNF/RUG-113	CANAL PLAN 8 CUMEC ENHANCEMENT - SHEET 4 OF 4	3

NOT FOR CONSTRUCTION

REV	DESCRIPTION	BY	DATE
3	DRAWING LIST UPDATED	PFR	11.10.10
2	DRAWING LIST UPDATED	PFR	1.10.10
1	DRAWING LIST UPDATED	HN	1.9.10
0	FIRST ISSUE		

DESIGN	CHECKED
PFR	
DRAWN	CHECKED
HN	

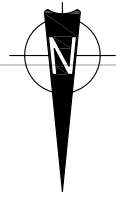
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P.O. BOX 4355
CHRISTCHURCH
TEL. 03-3794402
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TITLE
TRUSTPOWER LTD
KANIERE FORKS HYDRO SCHEME - 8 CUMEC ENHANCEMENT
OVERALL LOCATION PLAN AND DRAWING LIST

CADFILE 10KNF_RUG-00	DRAWING No. 10KNF/RUG-00	REV. 3
SCALES (A3) 1:10000		



809600mN

LAKE KANIERE

110

TUNNEL

810600mN

KANIERE RIVER

111

811600mN

112

WARDS ROAD

POWERSTATION

113

413700mE

412700mE

411700mE

NOT FOR CONSTRUCTION

DESIGN	CHECKED	APPROVED FOR ISSUE:
PFR		
DRAWN	CHECKED	
HN		DRAFT
DATE DRAWN	9.7.10	DATE: / /
REV	DESCRIPTION	BY
0	FIRST ISSUE	

DESIGN	CHECKED
PFR	
DRAWN	CHECKED
HN	
DATE DRAWN	9.7.10
REV	DESCRIPTION
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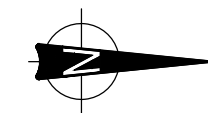
TITLE

TRUSTPOWER LTD

KANIERE FORKS HYDRO SCHEME - 8 CUMEC ENHANCEMENT

REFERENCE PLAN FOR SHEETS 110 to 113

CADFILE	10KNF_RUG-100
SCALES (A3)	1:10000
DRAWING No.	10KNF/RUG-100
REV.	0



EXISTING INTAKE TO BE MODIFIED. TWO GATES TO CULVERT TUNNEL. FISHSCREEN TO BE PROVIDED. CHANNEL CAPACITY INTO LAKE TO BE INCREASED BY REMOVING BUILT-UP SEDIMENT.

10m WIDE CONSTRUCTION CORRIDOR WHERE CANAL IS UNDERGROUND.

TRANSMISSION LINE CONTINUES

END OF 15m WIDE CONSTRUCTION CORRIDOR

CHAINAGE 480 TO 1100 30m WIDE CONSTRUCTION CORRIDOR WITH RACE & ACCESS WITHIN CORRIDOR

NEW 3.5m WIDE TRACK ALONGSIDE RACE (TYPICAL)

CONSTRUCTION CORRIDOR FROM CHAINAGE 000 TO 480m TO BE 15m WIDE ONLY. ALIGNMENT TO BE MODIFIED LOCALLY TO AVOID ANY LARGE HABITAT TREES WHERE POSSIBLE.

EXISTING RACE TO BE RETIRED AND BACKFILLED TO REMOVE HAZARD

EXISTING 25m WIDE TRANSMISSION LINE CLEARING TO BE USED FOR COMMON TRANSMISSION CANAL/ACCESSWAY

LONGITUDINAL SECTION
HORIZONTAL SCALE 1:2000

EXISTING WIDTH 6-10m

TYPICAL EXISTING SECTION

SCALE 1:200

TYPICAL PROPOSED SECTION

SCALE 1:200

NOTE:-

- FOR REFERENCE SEE DWG 10KNF/RUG-100.
- CUT SLOPES ARE INDICATIVE & WILL BE STEEPENED IF POSSIBLE ONCE GEOTECHNICAL DATA IS AVAILABLE.

NOT FOR CONSTRUCTION

3	DRAWING AMENDED	PFR	11.10.10	PFR	CHECKED
2	DRAWING AMENDED	PFR	1.10.10	HN	CHECKED
1	DRAWING AMENDED	HN	31.8.10	HN	
0	FIRST ISSUE				
REV	DESCRIPTION	BY	DATE	DATE DRAWN	
				9.7.10	

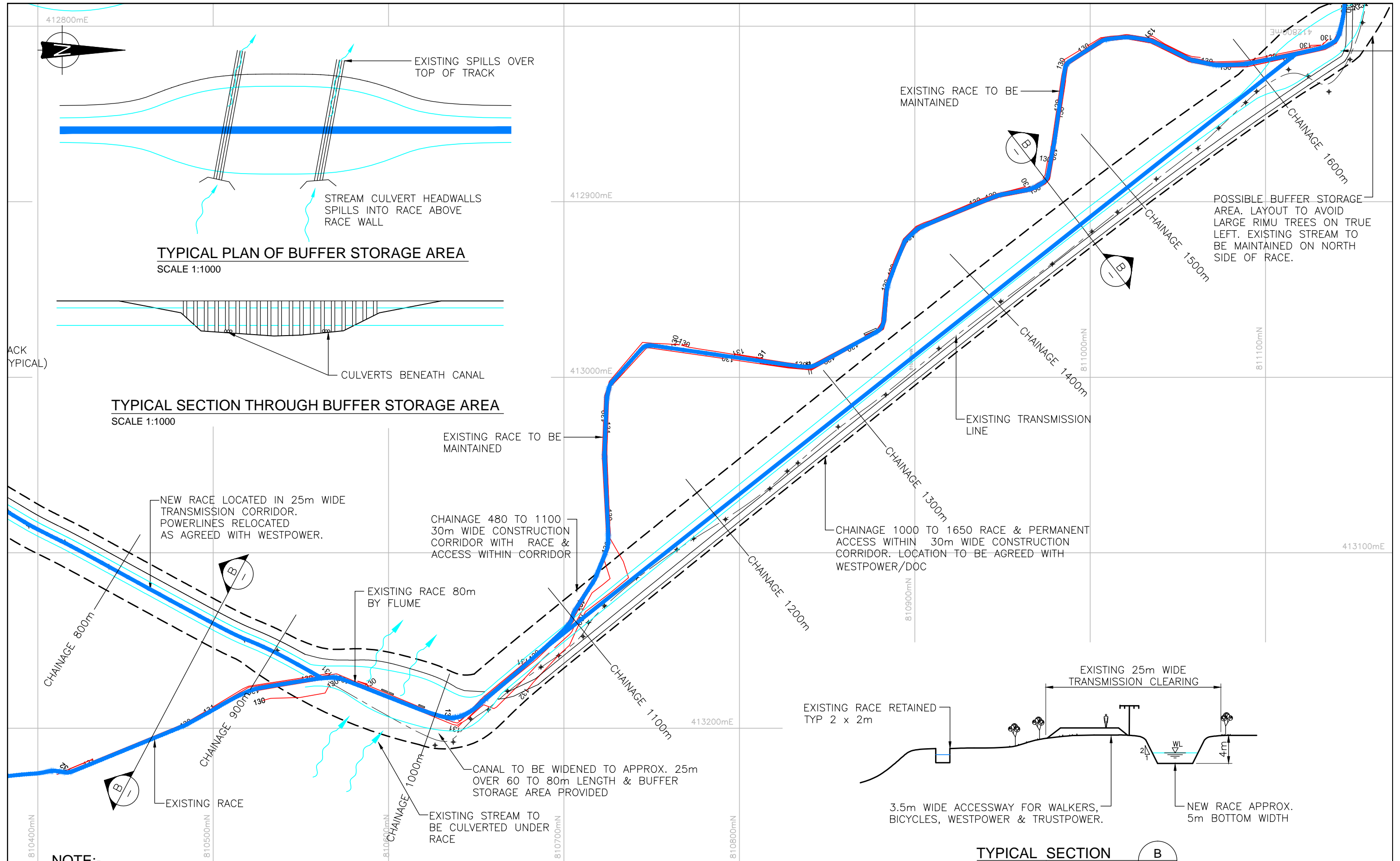
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TITLE
TRUSTPOWER LTD
KANIERE FORKS HYDRO SCHEME - 8 CUMEC ENHANCEMENT
CANAL PLAN AS-BUILT - SHEET 1 of 4

CADFILE 10KNF_RUG-110to113	DRAWING No. 10KNF/RUG-110	REV. 3
SCALES (A3) AS SHOWN	ACENZ	



TYPICAL PLAN OF BUFFER STORAGE AREA
SCALE 1:1000

TYPICAL SECTION THROUGH BUFFER STORAGE AREA
SCALE 1:1000

TYPICAL SECTION B
SCALE 1:500

LONGITUDINAL SECTION
HORIZONTAL SCALE 1:2000

NOT FOR CONSTRUCTION

- NOTE:-**
- FOR REFERENCE SEE DWG 10KNF/RUG-100.
 - CUT SLOPES ARE INDICATIVE & WILL BE STEEPENED IF POSSIBLE ONCE GEOTECHNICAL DATA IS AVAILABLE.

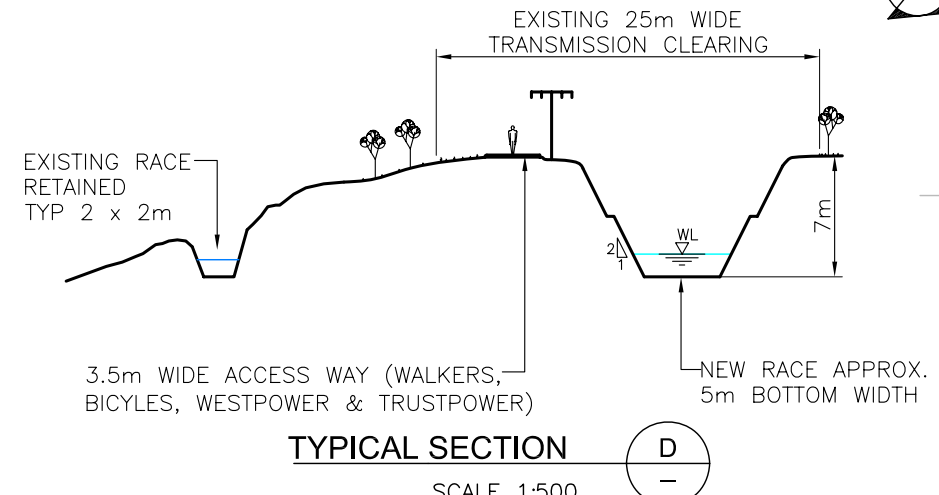
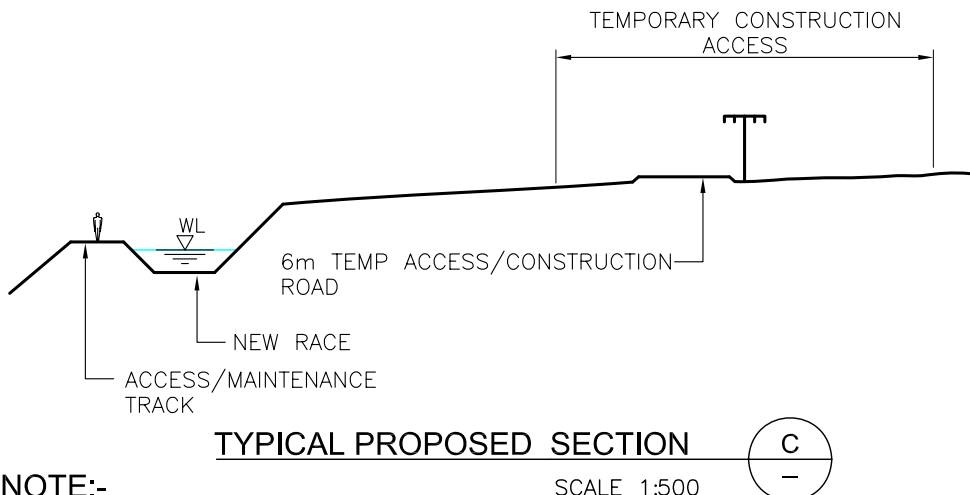
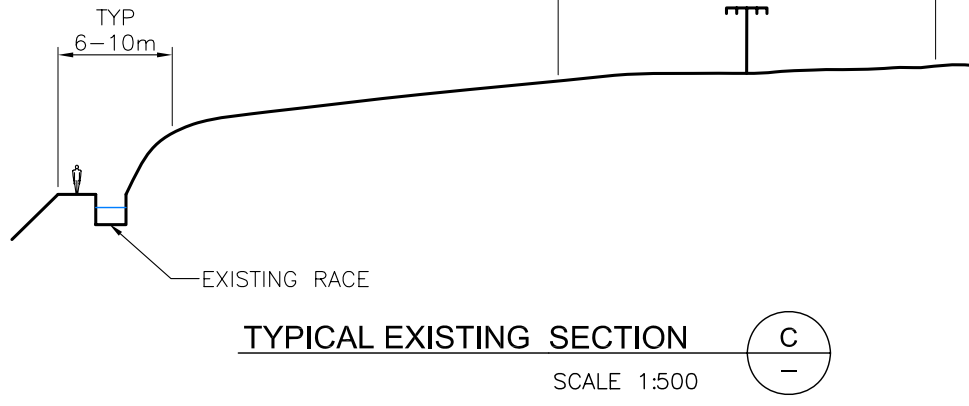
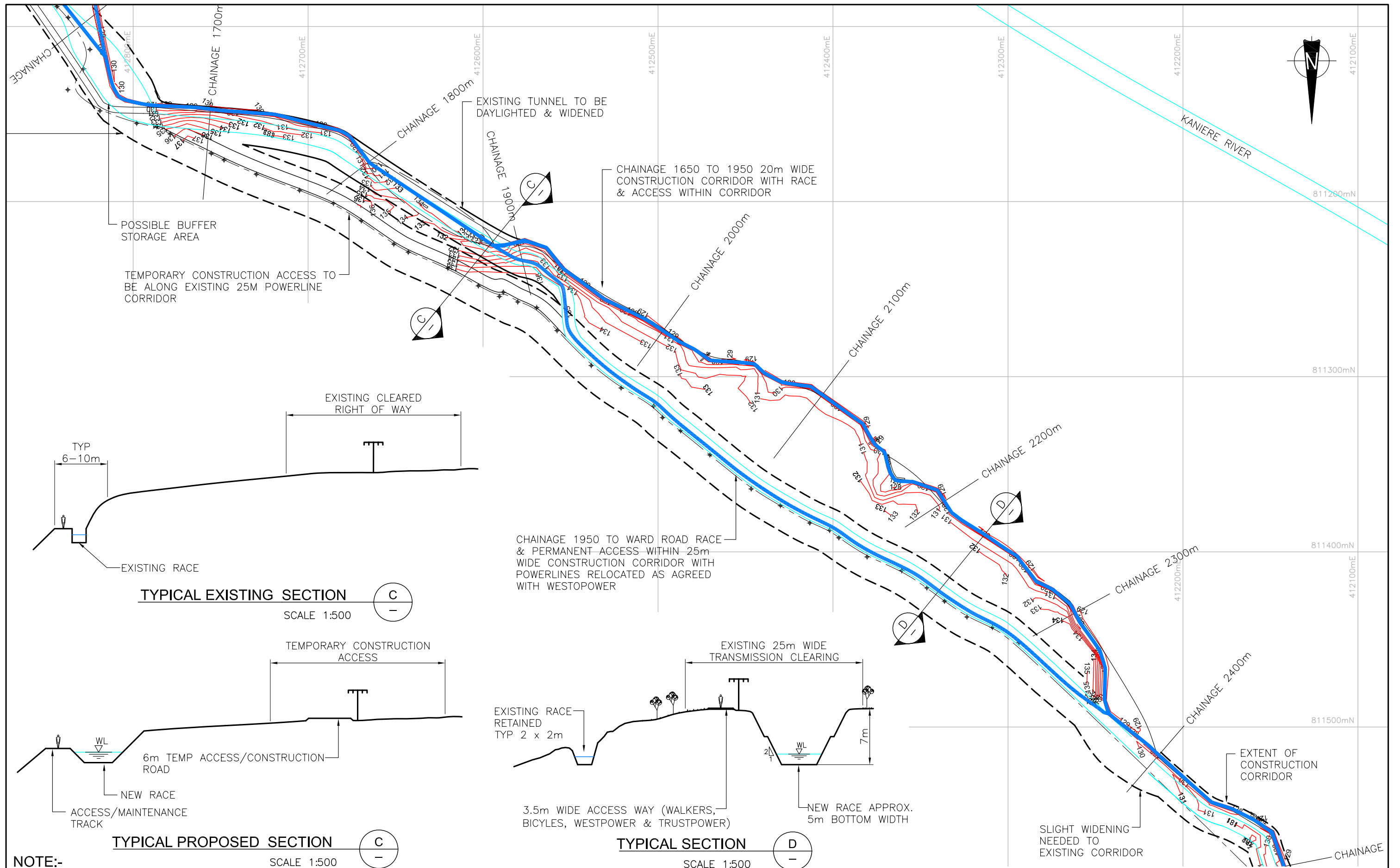
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1	DRAWING AMENDED	HN	31.8.10	HN		
0	FIRST ISSUE			DATE DRAWN		
			9.7.10			

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TRUSTPOWER LTD
KANIERE FORKS HYDRO SCHEME - 8 CUMEC ENHANCEMENT
 CANAL PLAN AS-BUILT - SHEET 2 of 4

CADFILE	10KNF_RUG-110to113
SCALES (A3)	AS SHOWN
DRAWING No.	10KNF/RUG-111
REV.	3



LONGITUDINAL SECTION
HORIZONTAL SCALE 1:2000

NOTE:-
1. FOR REFERENCE SEE DWG 10KNF/RUG-100.
2. CUT SLOPES ARE INDICATIVE & WILL BE STEEPENED IF POSSIBLE ONCE GEOTECHNICAL DATA IS AVAILABLE.

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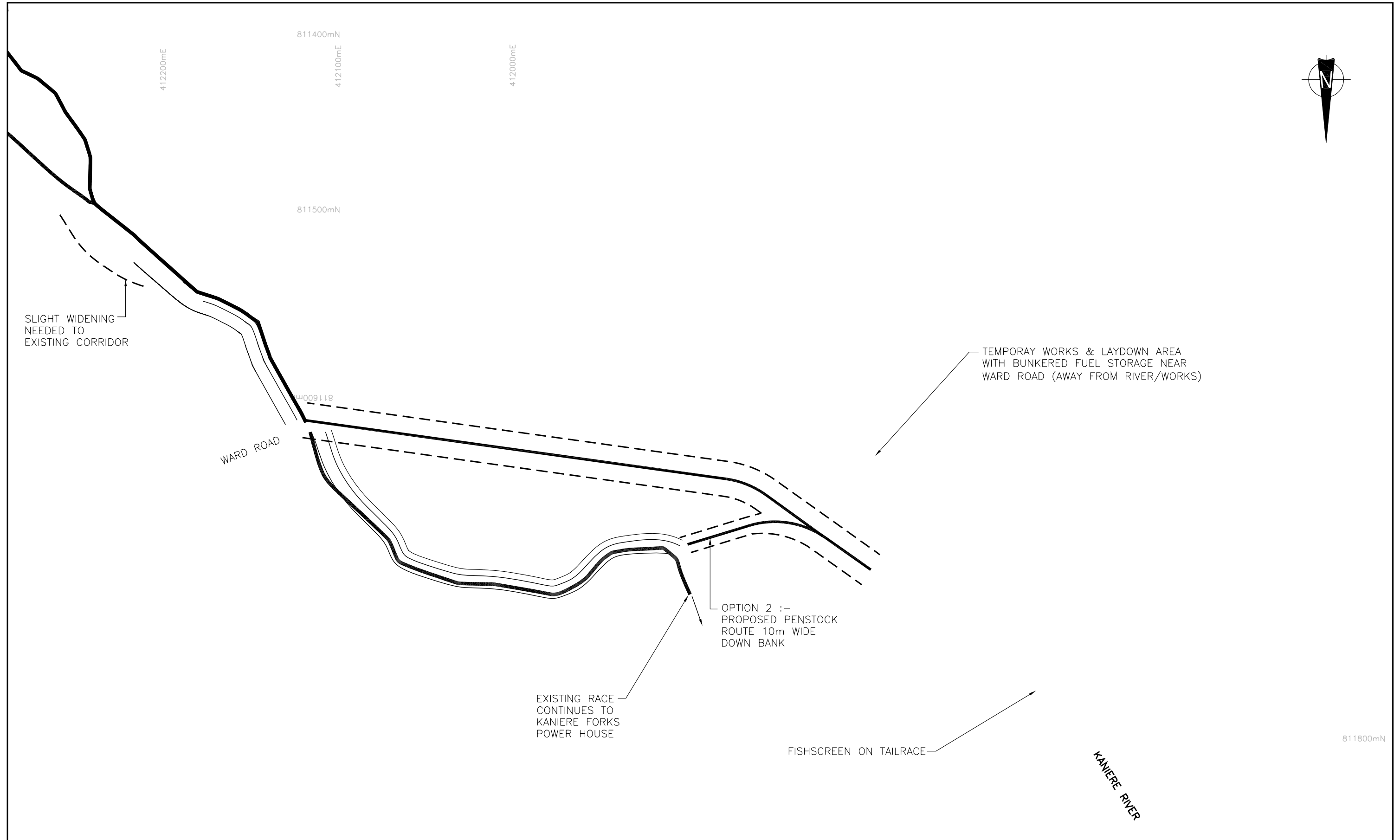
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TITLE
TRUSTPOWER LTD
KANIERE FORKS HYDRO SCHEME - 8 CUMEC ENHANCEMENT
CANAL PLAN AS-BUILT - SHEET 3 of 4

CADFILE 10KNF_RUG-110to113	DRAWING No. 10KNF/RUG-112	REV. 3
SCALES (A3) AS SHOWN		



NOTE:-

1. FOR REFERENCE SEE DWG 10KNF/RUG-100.
2. CUT SLOPES ARE INDICATIVE & WILL BE STEEPENED IF POSSIBLE ONCE GEOTECHNICAL DATA IS AVAILABLE.

LONGITUDINAL SECTION
HORIZONTAL SCALE 1:2000

NOT FOR CONSTRUCTION

REV	DESCRIPTION	BY	DATE	DESIGN	CHECKED
3	DRAWING AMENDED	PFR	11.10.10	PFR	
2	DRAWING AMENDED	PFR	1.10.10	DRAWN	CHECKED
1	DRAWING AMENDED	HN	31.8.10	HN	
0	FIRST ISSUE				

DATE DRAWN
9.7.10

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TITLE
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KANIERE FORKS HYDRO SCHEME - 8 CUMEC ENHANCEMENT
CANAL PLAN AS-BUILT - SHEET 4 of 4

CADFILE 10KNF_RUG-110to113	DRAWING No. 10KNF/RUG-113	REV. 3
SCALES (A3) AS SHOWN	ACENZ	