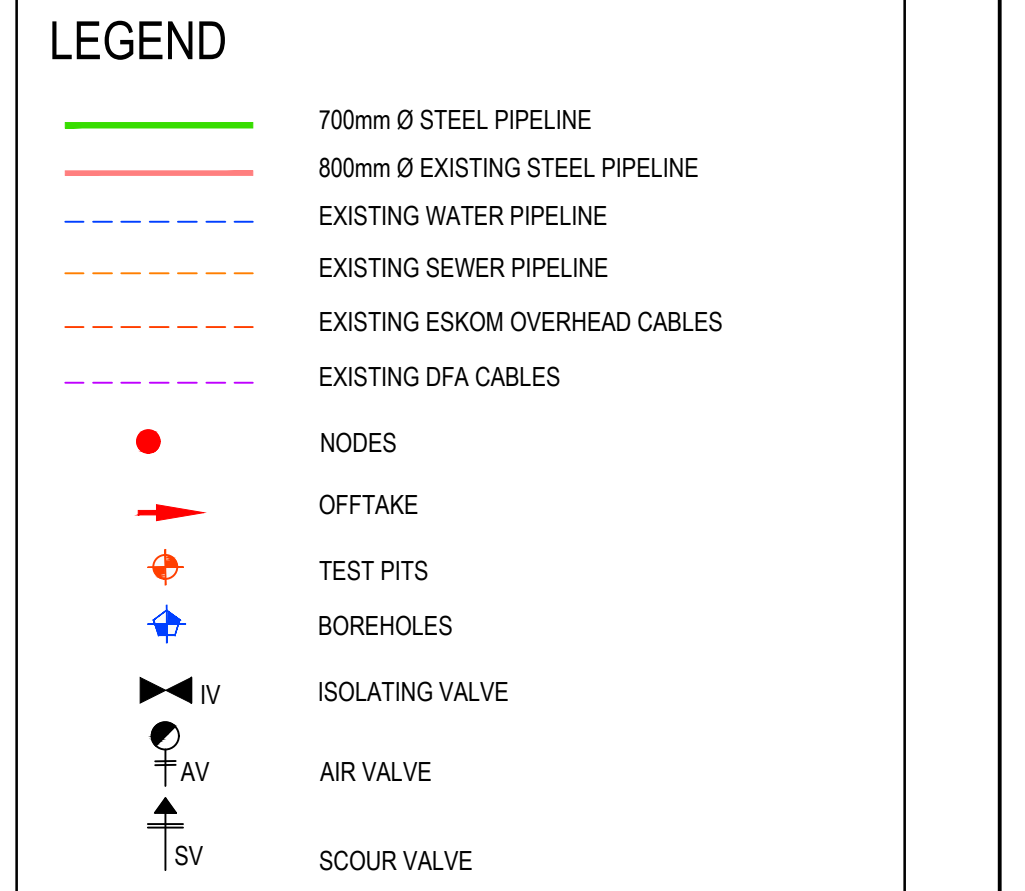
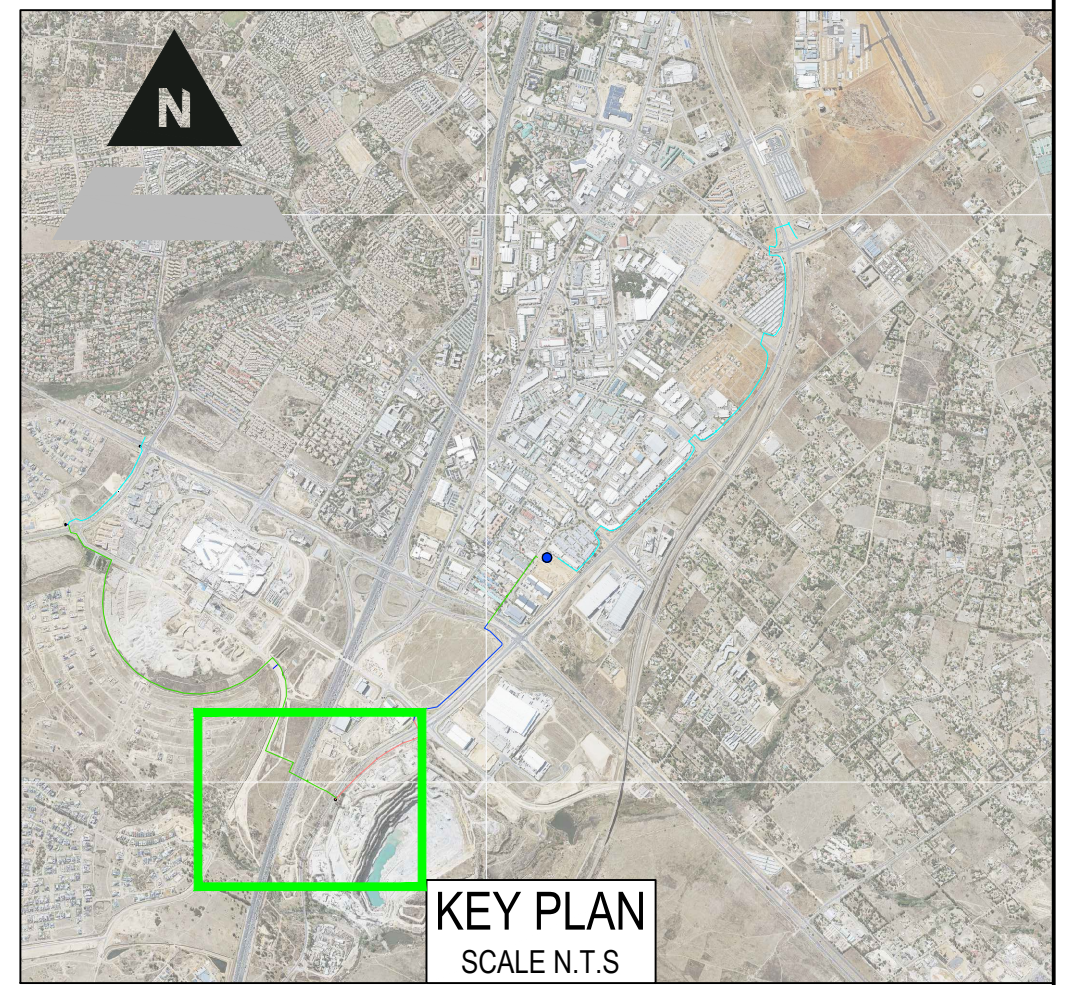


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COORDINATES LIST FOR BULK WATER SUPPLY PIPELINE WGS-84 LO-29

POINT	Y-COORD	X-COORD	INVERT LEVEL
P155	88792.161	2880084.893	1485.119
P156	88842.349	2880050.726	1480.375
P157	88885.744	2880029.217	1478.407
P158	88946.255	2879997.023	1465.312
P159	89040.461	2879946.944	1464.748
P160	89020.552	2879897.590	1464.471
P161	89167.058	2879835.365	1457.409

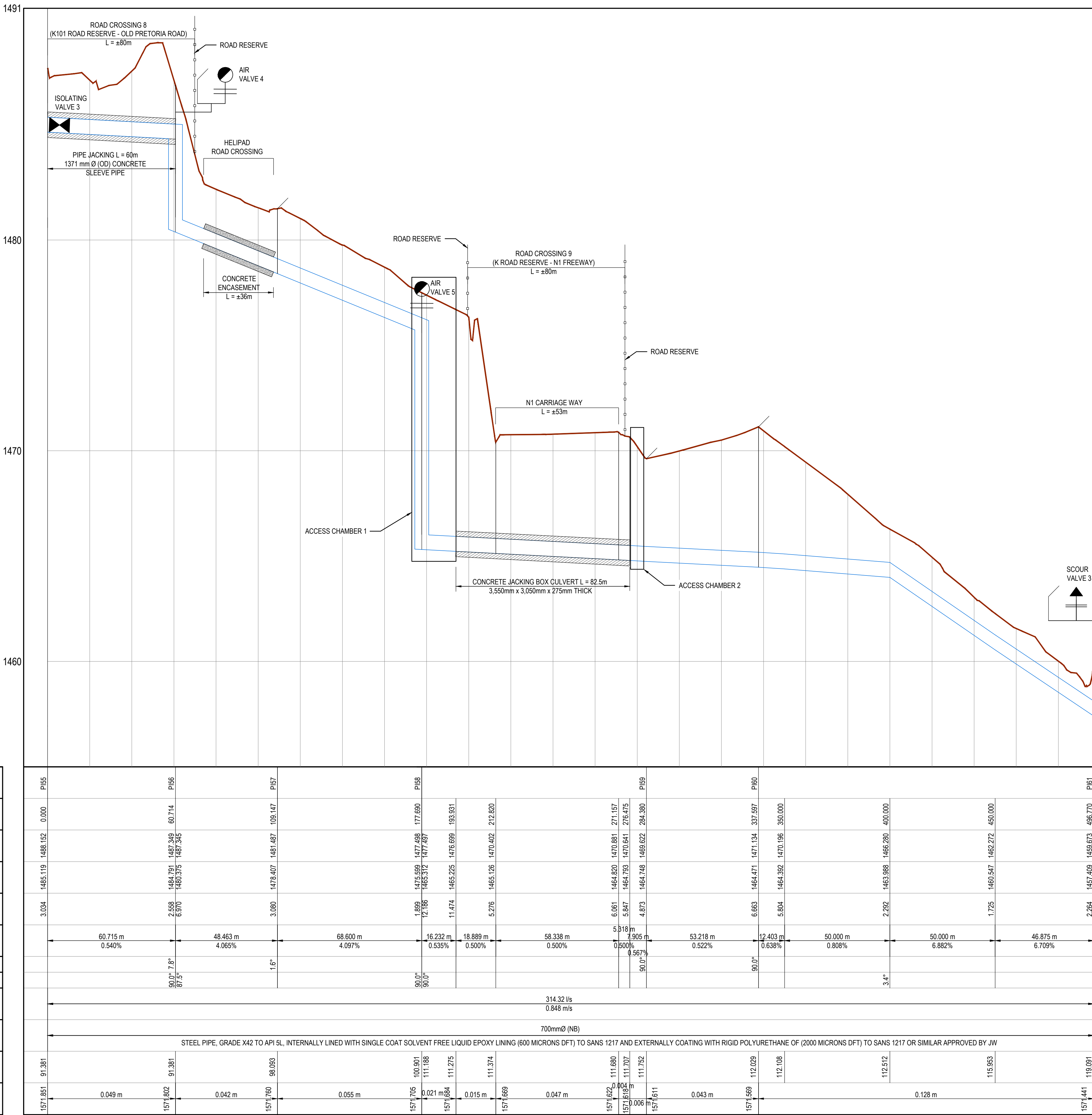


- LEGEND**
- NATURAL GROUND LEVEL (NGL)
 - WATER PIPES
 - PIPE JACKING / HORIZONTAL DRILLING
 - PREFABRICATED BEND > 5°

SCALES:
Horizontal 1:1000
Vertical 1:100

DATUM 1455

PI
CHAINAGE (m)
GROUND LEVEL (m)
PIPE INVERT (m)
DEPTH TO INVERT (m)
PIPE LENGTH / SLOPE
CHANGE IN DIRECTION
PEAK FLOW / VELOCITY
PIPE SIZE / PIPE TYPE
STATIC PRESSURE (m)
HYDRAULIC GRADE (m) / HEAD LOSS



LONGSECTION: P155 - P161

CONSULTING ENGINEERS	DESIGNED	T. SHABALALA	JULY 2021
ZUTARI IMPACT. ENGINEERED.	DRAWN	T. SHABALALA	JULY 2021
	CHECKED	M. LUSUNZI	JULY 2021
OXFORD CORNER JELICHO AVENUE ROSEBANK, JOHANNESBURG SOUTH AFRICA TEL: +27 11 214 4500	APPROVED BY:	C. KAN	JULY 2021
CLIENT 17 HARRISON STREET MARSHALLTOWN 2107	ECSA REG. No.	SIGNATURE	DATE
	CHECKED BY:	SIGNATURE	DATE
	ECSA REG. No.		



17 HARRISON STREET
MARSHALLTOWN
2107

TEL: (011) 688-1400
FAX: (011) 688-1529



HALFWAY HOUSE WATER UPGRADE

PLAN AND LONGSECTION:
SHEET 6 OF 10

APPROVAL BY JW DEPOT	SCALE	AMENDMENTS	DRAWING No.
CHECKED		REV.	DESCRIPTION
APPROVED BY:		TO	ISSUED FOR TENDER
SIGNATURE	DATE		
APPROVAL BY JW PLANNING			
CHECKED			
APPROVED BY:			
SIGNATURE	DATE		
PROJECT No.	DRAWING No.	REV.	
111242	0000-DRG-WW-0306	T0	
A0	SHEET 6 OF 10		
ORIGINAL PAGE SIZE			
FILE No.			