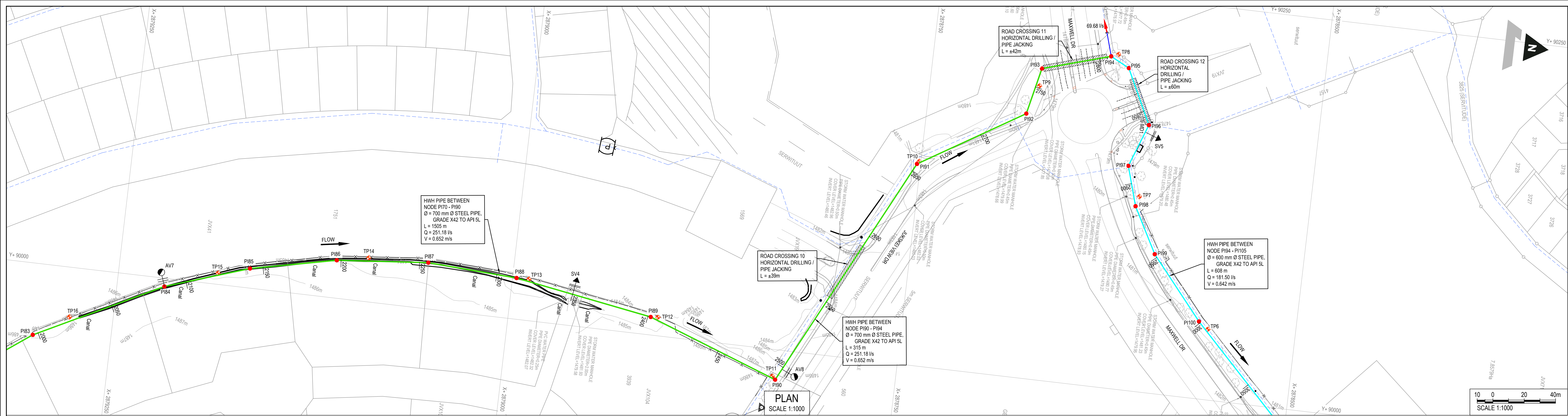




- GENERAL NOTES:**
- DRAWINGS MUST NOT BE SCALED.
 - THIS DRAWING TO BE READ IN CONJUNCTION WITH THE GENERAL NOTES DRAWINGS AND ALL PROJECT SPECIFICATIONS.
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LEGEND

	700mm Ø STEEL PIPELINE
	600mm Ø STEEL PIPELINE
	315mm Ø mPVC PIPELINE
	EXISTING WATER PIPELINE
	EXISTING SEWER PIPELINE
	EXISTING ESKOM OVERHEAD CABLES
	EXISTING DFA CABLES
	NODES
	OFFTAKE
	TEST PITS
	BOREHOLES
	ISOLATING VALVE
	AIR VALVE
	SCOUR VALVE

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

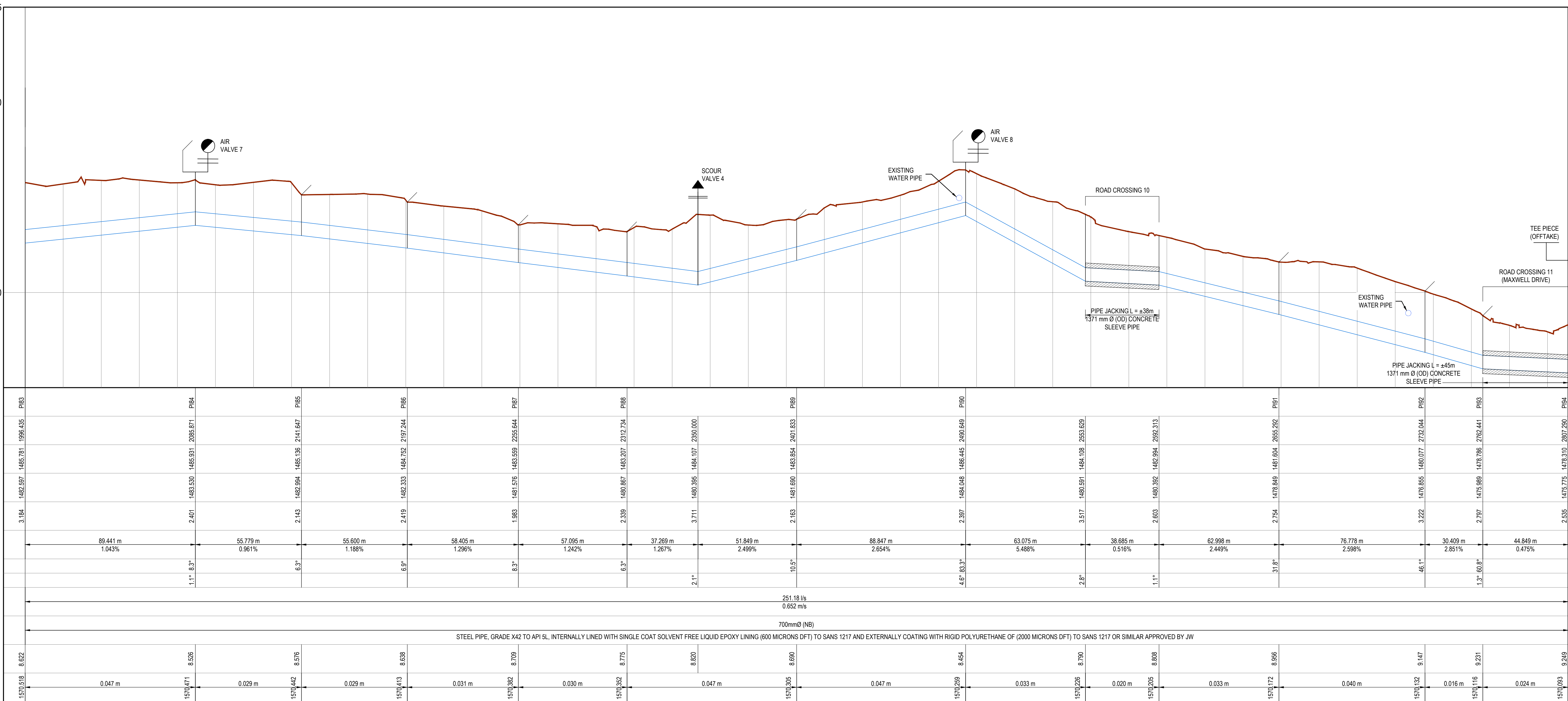
POINT	Y-COORD	X-COORD	INVERT LEVEL
P103	89954.372	2879299.639	1482.597
P104	89994.751	2879219.837	1483.530
P105	90012.451	2879166.944	1482.994
P106	90024.124	2879112.587	1482.333
P107	90029.377	2879054.387	1481.576
P108	90026.182	2878997.423	1480.867
P109	90011.447	2878909.551	1481.690
P110	89980.959	2878826.132	1484.048
P111	90128.082	2878752.226	1478.849
P112	90168.012	2878686.732	1476.855
P113	90197.720	2878680.136	1475.989
P114	90210.587	2878637.173	1475.775
P115	90204.437	2878625.124	1475.737
P116	90169.816	2878608.207	1475.608
P117	90142.534	2878618.220	1476.100
P118	90117.466	2878610.661	1476.653
P119	90088.488	2878594.940	1477.276
P120	90049.195	2878561.948	1478.149

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

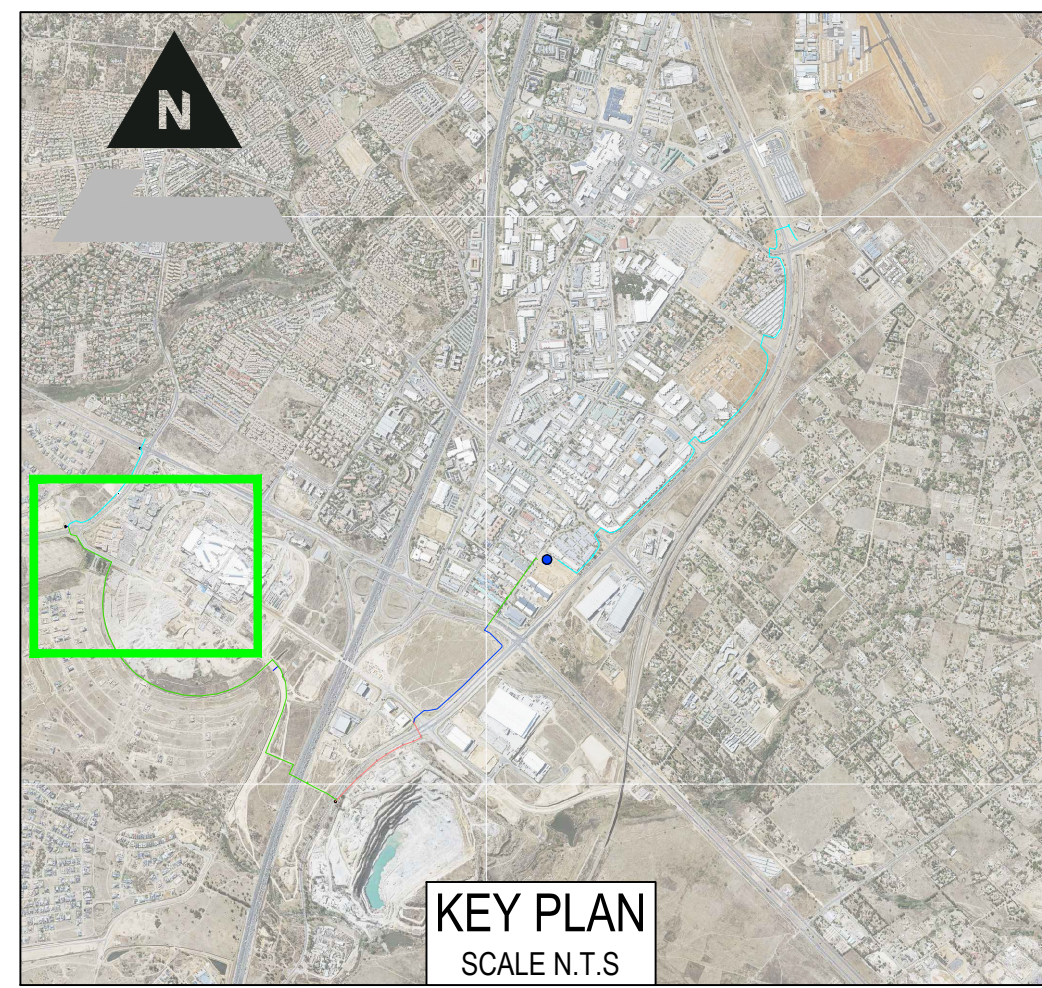
SCALES:
Horizontal 1:1000
Vertical 1:100

DATUM 1475

PI	P103	P104	P105	P106	P107	P108	P109	P110	P111	P112	P113	P114	P115	P116	P117	P118	P119	P120
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: P103 - P120



- NOTES:**
- PIPE DESCRIPTION: 600mm Ø / 700mm Ø (NB) STEEL PIPE, GRADE X42 TO API 5L, COATING: EXTERNALLY COATING WITH RIGID POLYURETHANE OF (2000 MICRONS DFT) TO SANS 1217 OR SIMILAR APPROVED BY JW. INTERNALLY LINED WITH SINGLE COAT SOLVENT FREE LIQUID EPOXY LINING (800 MICRONS DFT) TO SANS 1217.
 - REFER TO GEOTECHNICAL INVESTIGATION REPORT FOR DETAILED GEOTECHNICAL INFORMATION ALONG THE PIPELINE ROUTE.
 - REFER TO DWG NO. 111242-0000-DRG-WW-0500 FOR TYPICAL AIR VALVE DETAIL.
 - REFER TO DWG NO. 111242-0000-DRG-WW-0501 FOR TYPICAL ISOLATING VALVE DETAIL.
 - REFER TO DWG NO. 111242-0000-DRG-WW-0502/0503 FOR TYPICAL SCOUR VALVE CHAMBER DETAIL.
 - REFER TO DWG NO. 111242-0000-DRG-WW-0504 FOR TYPICAL DETAILS FOR TRENCH EXCAVATION AND BACKFILL.
 - REFER TO DWG NO. 111242-0000-DRG-WW-0505 FOR TYPICAL PIPE JACKING DETAIL.
 - EXISTING SERVICES LEVELS AND POSITIONS TO BE CONFIRMED ON SITE.

CONSULTING ENGINEERS OXFORD CORNER JELLODICE AVENUE ROSEBANK, JOHANNESBURG SOUTH AFRICA TEL: +27 11 214 4500 17 HARRISON STREET MARSHALLTOWN 2107	DESIGNED T. SHABALALA JULY 2021 DRAWN T. SHABALALA JULY 2021 CHECKED M. LUSUNZI JULY 2021 APPROVED BY: C. KAN JULY 2021 ECSA REG. No. CHECKED BY: ECSA REG. No. 	T. SHABALALA JULY 2021 T. SHABALALA JULY 2021 M. LUSUNZI JULY 2021 C. KAN JULY 2021 SIGNATURE DATE SIGNATURE DATE	 17 HARRISON STREET MARSHALLTOWN 2107 TEL: (011) 688-1400 FAX: (011) 688-1529	 HALFWAY HOUSE WATER UPGRADE PLAN AND LONGSECTION: SHEET 9 OF 10	APPROVAL BY JW DEPOT <table><tr><td>CHECKED</td><td></td><td></td><td></td></tr><tr><td>APPROVED BY:</td><td></td><td></td><td></td></tr><tr><td>SIGNATURE</td><td>DATE</td><td></td><td></td></tr></table> APPROVAL BY JW PLANNING <table><tr><td>CHECKED</td><td></td><td></td><td></td></tr><tr><td>APPROVED BY:</td><td></td><td></td><td></td></tr><tr><td>SIGNATURE</td><td>DATE</td><td></td><td></td></tr></table>	CHECKED				APPROVED BY:				SIGNATURE	DATE			CHECKED				APPROVED BY:				SIGNATURE	DATE			SCALE <table><tr><td>REV.</td><td>DESCRIPTION</td><td>DATE:</td></tr><tr><td>TO</td><td>ISSUED FOR TENDER</td><td>10/2021</td></tr></table>	REV.	DESCRIPTION	DATE:	TO	ISSUED FOR TENDER	10/2021	AMENDMENTS <table><tr><td>REV.</td><td>DESCRIPTION</td><td>DATE:</td></tr><tr><td>TO</td><td>ISSUED FOR TENDER</td><td>10/2021</td></tr></table>	REV.	DESCRIPTION	DATE:	TO	ISSUED FOR TENDER	10/2021	DRAWING No. <table><tr><td>111242</td><td>-</td><td>0000-DRG-WW-0309</td><td>-</td><td>TO</td></tr><tr><td>PROJECT No.</td><td></td><td>DRAWING No.</td><td></td><td>REV.</td></tr><tr><td>A0</td><td></td><td>9</td><td></td><td>10</td></tr><tr><td>ORIGINAL PAGE SIZE</td><td></td><td></td><td></td><td></td></tr><tr><td>FILE No.</td><td></td><td></td><td></td><td></td></tr></table>	111242	-	0000-DRG-WW-0309	-	TO	PROJECT No.		DRAWING No.		REV.	A0		9		10	ORIGINAL PAGE SIZE					FILE No.				
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