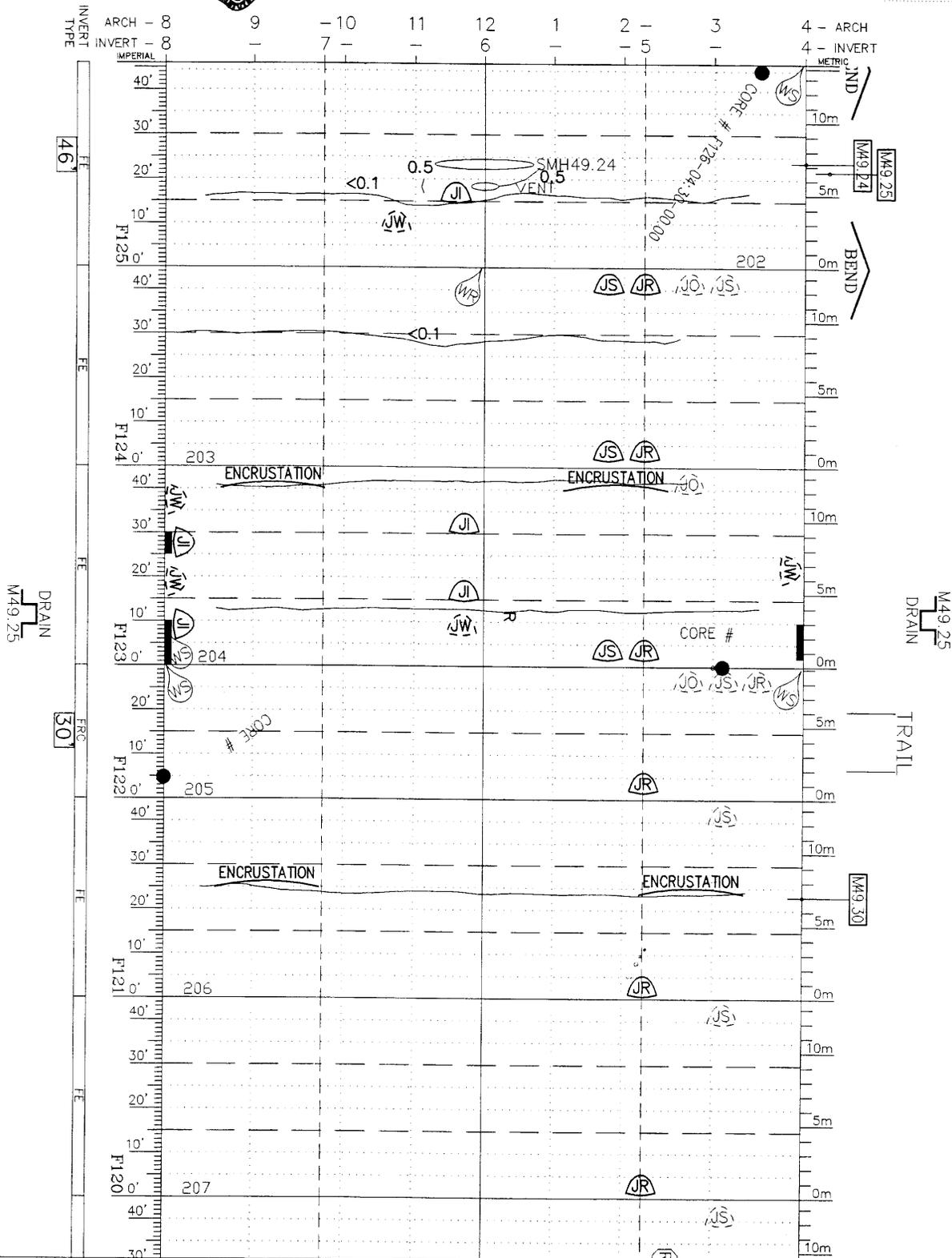


**APPENDIX B**

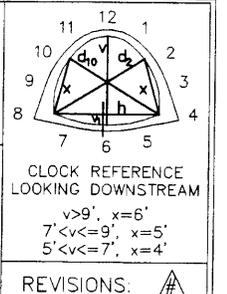
**DEFECT MAPS**

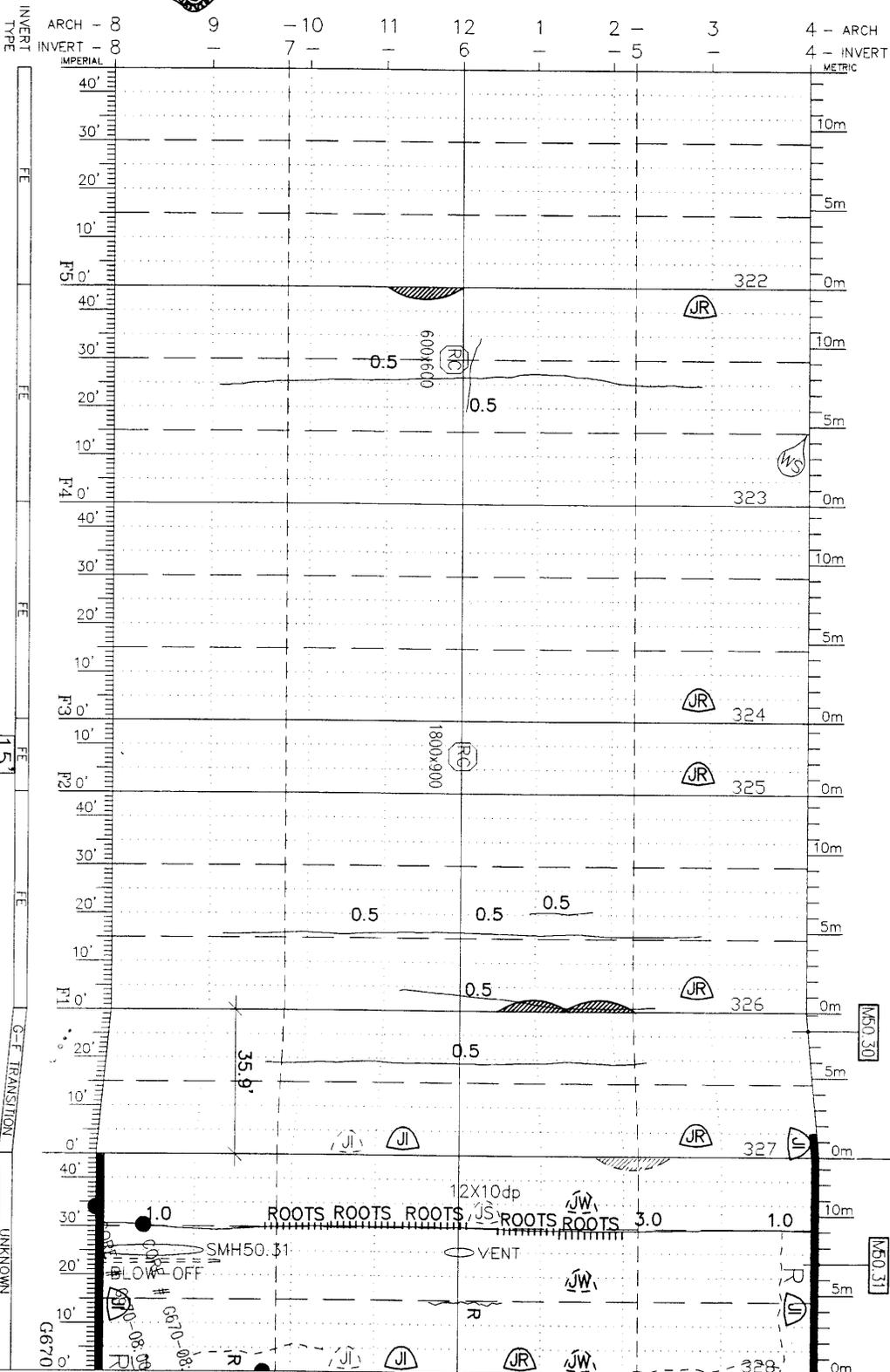


DOWNSTREAM ↑



CRACKS:		BOTTOM-IN OFFSET		BI O/S		DEFECTIVE CONCRETE:		SPALLING		SP EROSION/WEAR		EW	
ARCH $\frac{Width}{P}$	REPAIRED $\frac{R}{R}$	BOTTOM-OUT OFFSET	BO O/S	MULTIPLE CRACKING	MULTIPLE	(TYPE)	HONEYCOMB	HC	DELAMINATED	DC			
INVERT $\frac{Width}{P}$	REPAIRED $\frac{R}{R}$	REPAIRS -		PRE-1994 CEMENTITIOUS	P	LENGTH x WIDTH	REPAIRS -	PRE-1994 CONCRETE	REPAIRS	RC			
		INJECTION			R	CLOCK REFERENCE	PATCH-EPOXY	PATCH-CEMENTITIOUS		PC			
WATER INFILTRATION:		SEEPER		GUSHER		JOINTS:		OPEN		JO SPALLED		JS	
(TYPE)	(TYPE)	RUNNER	WR	BROWN	BS	(TYPE)	DISPLACED	JD	WATERTIGHT	JW			
		ARCH	INVERT			(TYPE)	REPAIRS -	PRE-1994	JR	NEOPRENE SEAL	JN		
MANHOLES:	STANDARD	SMH	INTERNAL STRENGTHENING:	IS		(TYPE)	INJECTION	JJ	REPAIRED				
	PRESSURE	PMH	EXTERNAL STRENGTHENING:	ES		(TYPE)	MEMBRANE	JM	SPRINGLINE				
	BURIED	BMH	GRAVEL BALLAST:	GB									





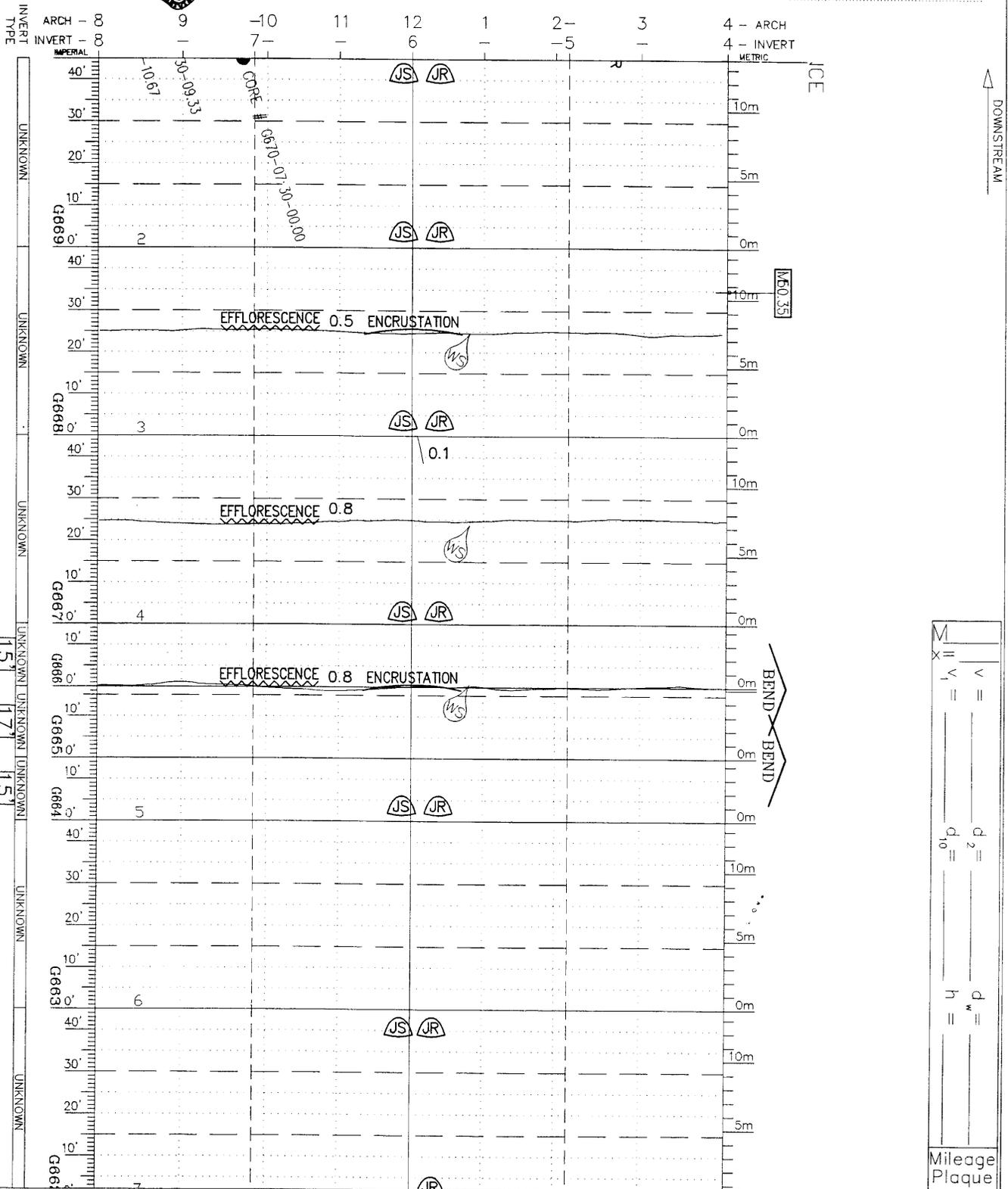
Transition  
G-F  
30'  
DRAIN  
MSO.31  
UNKNOWN

N-S ROAD ALLOWAY  
DRAIN  
MSO.34  
MSO.31

Mileage  
Plaque

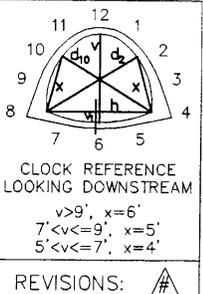
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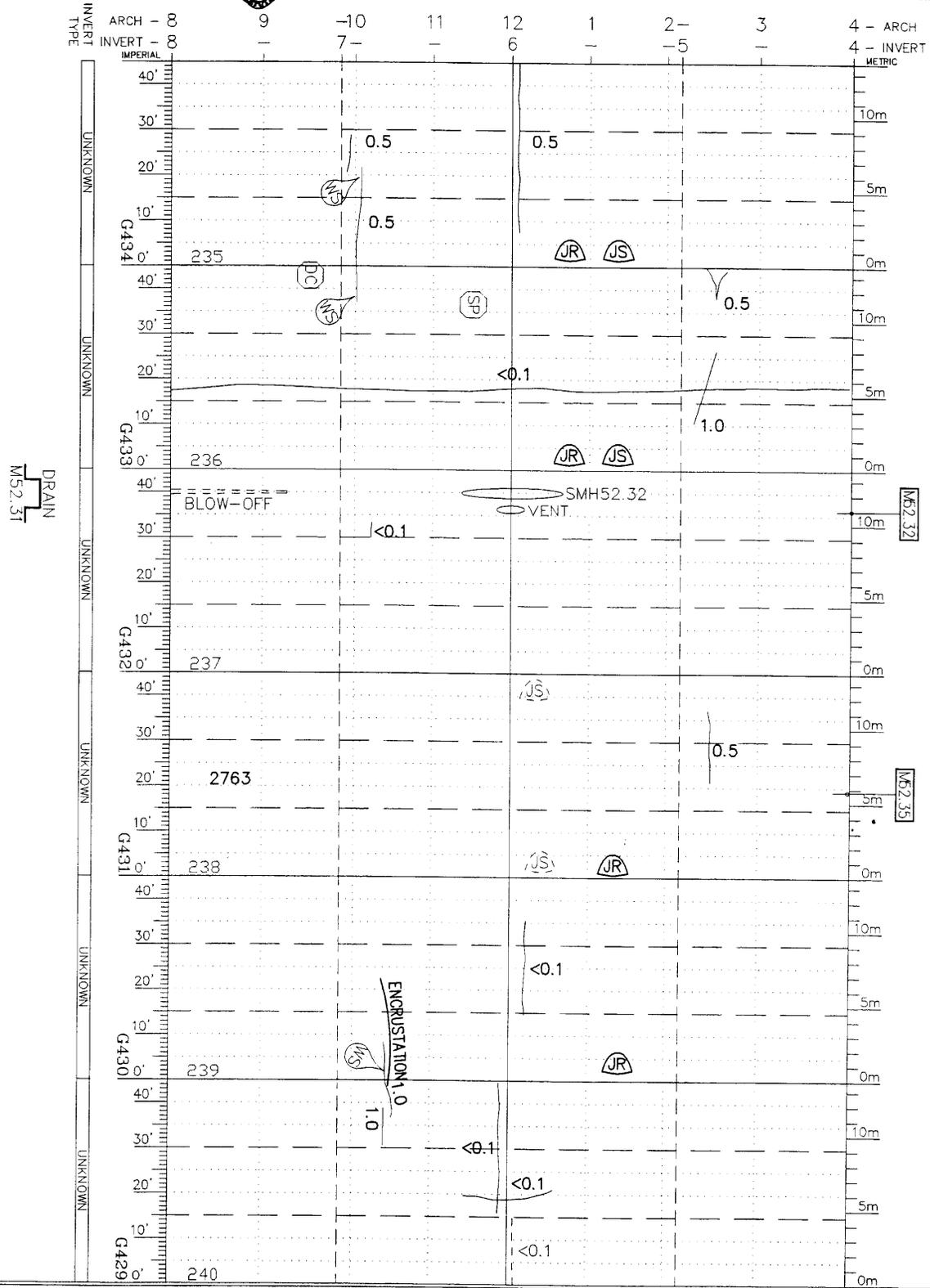
<b>LEGEND</b> NOTE: ALL SIZES AND DIMENSIONS IN mm	<b>CRACKS:</b> ARCH <u>Width/P</u> REPAIRED <u>R</u> INVERT <u>Width/P</u> REPAIRED <u>R</u>	BOTTOM-IN OFFSET BOTTOM-OUT OFFSET MULTIPLE CRACKING REPAIRS - PRE-1994 CEMENTITIOUS INJECTION	BI O/S BO O/S MULTIPLE P R	<b>DEFECTIVE CONCRETE:</b> (TYPE) LENGTH x WIDTH CLOCK REFERENCE	SPALLING HONEYCOMB REPAIRS - PRE-1994 CONCRETE REPAIRS 
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**LEGEND**  
NOTE: ALL SIZES AND DIMENSIONS IN mm

<b>CRACKS:</b> ARCH $\frac{\text{Width}}{P}$ REPAIRED $\frac{R}{R}$ INVERT $\frac{\text{Width}}{P}$ REPAIRED $\frac{R}{R}$	BOTTOM-IN OFFSET BOTTOM-OUT OFFSET MULTIPLE CRACKING REPAIRS - PRE-1994 CEMENTITIOUS INJECTION	BI O/S BO O/S MULTIPLE  P R	<b>DEFECTIVE CONCRETE:</b> (TYPE) LENGTH x WIDTH CLOCK REFERENCE	SPALLING HONEYCOMB REPAIRS - PRE-1994 CONCRETE REPAIRS PATCH-EPOXY PATCH-CEMENTITIOUS	SP EROSION/WEAR HC DELAMINATED  JOINTS: OPEN DISPLACED REPAIRS - PRE-1994 INJECTION MEMBRANE	JO SPALLED JD WATERTIGHT JR NEOPRENE SEAL JI REPAIRED JM SPRINGLINE	EW DC RC PE PC  JS JW JN JB  REVISIONS: $\Delta$
	<b>WATER INFILTRATION:</b> (TYPE) ARCH (TYPE) INVERT	SEEPER WS RUNNER WR  GUSHER BROWNS STAIN  WG BS	INTERNAL STRENGTHENING: IS EXTERNAL STRENGTHENING: ES GRAVEL BALLAST: GB	(TYPE) ARCH REPAIRED (TYPE) INVERT REPAIRED	JO SPALLED JD WATERTIGHT JR NEOPRENE SEAL JI REPAIRED JM SPRINGLINE	JO SPALLED JD WATERTIGHT JR NEOPRENE SEAL JI REPAIRED JM SPRINGLINE	EW DC RC PE PC  JS JW JN JB  REVISIONS: $\Delta$

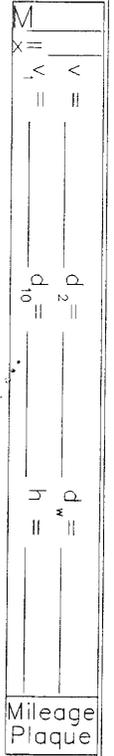




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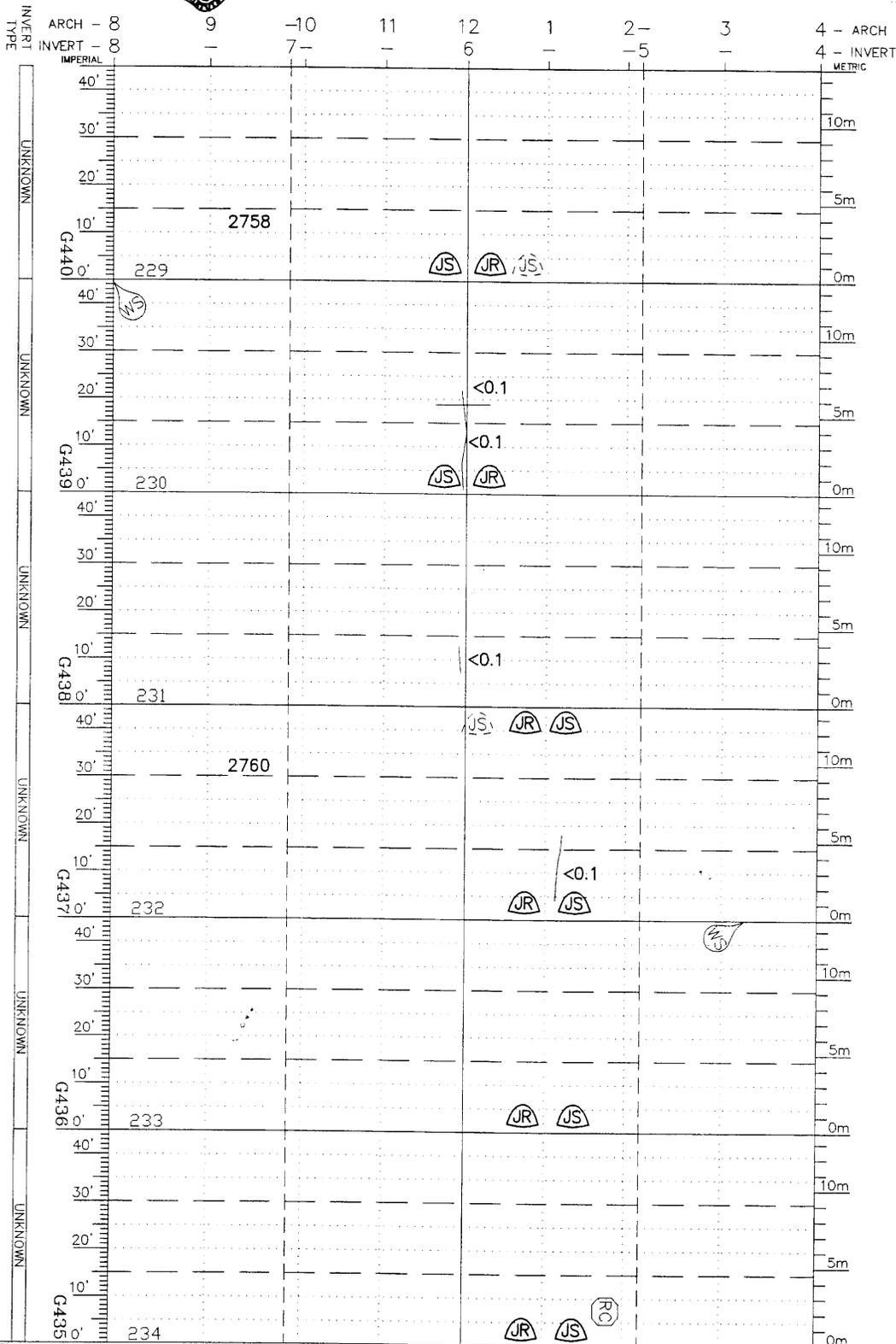
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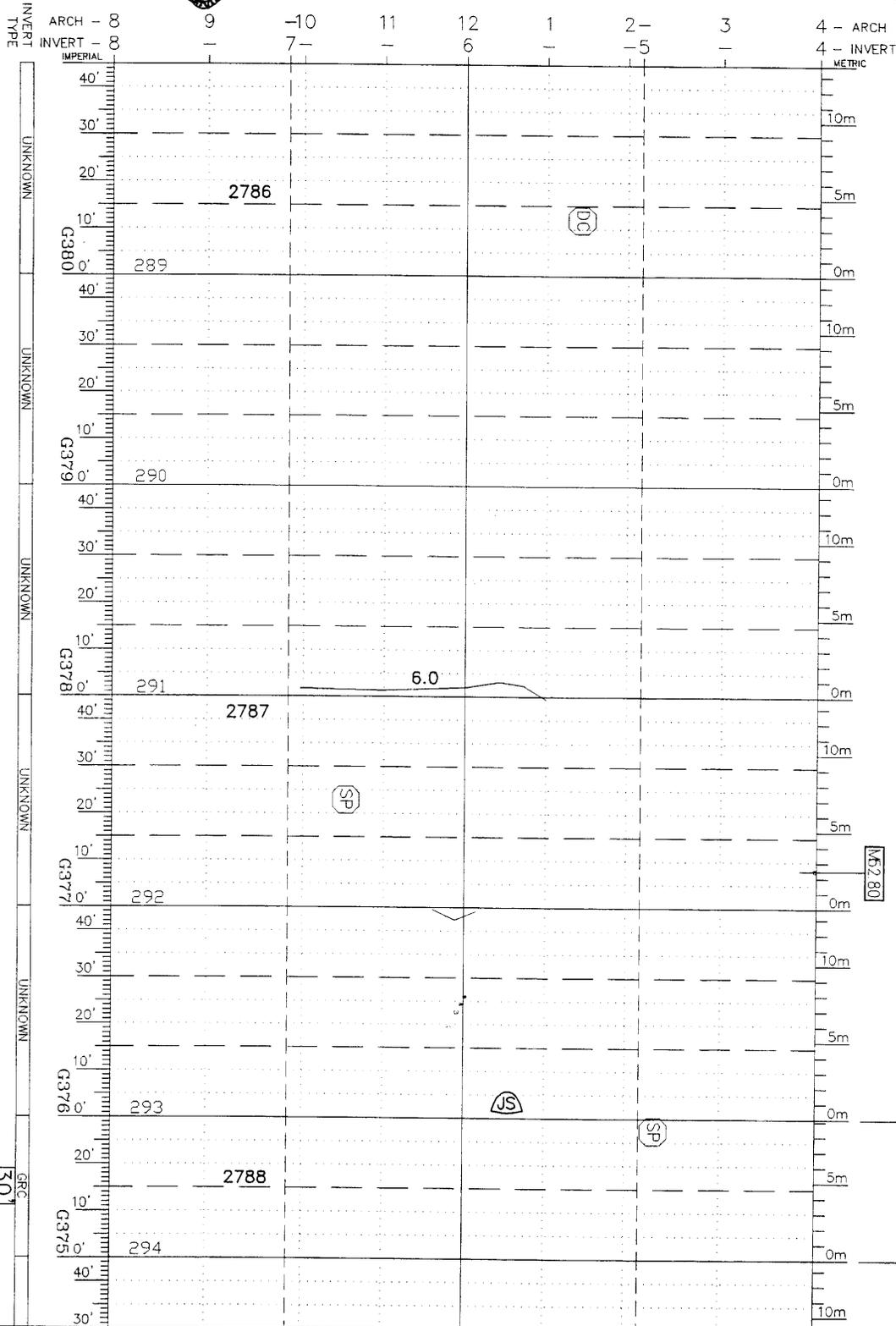


LEGEND  
NOTE: ALL SIZES AND DIMENSIONS IN mm

<b>CRACKS:</b> ARCH <u>Width/P</u> REPAIRED <u>R</u> INVERT <u>Width/P</u> REPAIRED <u>R</u>	BOTTOM-IN OFFSET BOTTOM-OUT OFFSET MULTIPLE CRACKING REPAIRS - PRE-1994 CEMENTITIOUS INJECTION P R	BI O/S BO O/S MULTIPLE P R	<b>DEFECTIVE CONCRETE:</b> (TYPE) LENGTH x WIDTH CLOCK REFERENCE	SPALLING HONEYCOMB REPAIRS - PRE-1994 CONCRETE REPAIRS PATCH-EPOXY PATCH-CEMENTITIOUS	SP EROSION/WEAR HC DELAMINATED REPAIRS - PRE-1994 CONCRETE REPAIRS PATCH-EPOXY PATCH-CEMENTITIOUS	EW DC RC PE PC	<p>CLOCK REFERENCE LOOKING DOWNSTREAM</p> <p>v&gt;9', x=6' 7'&lt;v&lt;=9', x=5' 5'&lt;v&lt;=7', x=4'</p>
<b>WATER INFILTRATION:</b> (TYPE) ARCH (TYPE) INVERT	SEEPER WS RUNNER WR GUSHER BROWN STAIN WG BS	JOINTS: (TYPE) ARCH REPAIRED (TYPE) INVERT REPAIRED	OPEN DISPLACED REPAIRS - PRE-1994 INJECTION MEMBRANE	JO SPALLED JD WATER TIGHT NEOPRENE SEAL REPAIRED SPRINGLINE	JS JW JN JM	REVISIONS:	
<b>MANHOLES:</b> STANDARD PRESSURE BURIED	SMH PMH BMH	INTERNAL STRENGTHENING:  IS EXTERNAL STRENGTHENING:  ES GRAVEL BALLAST:  GB					

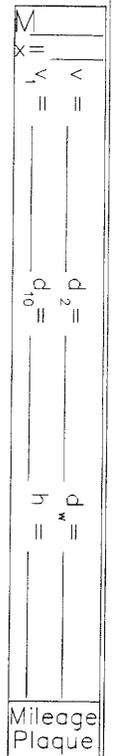
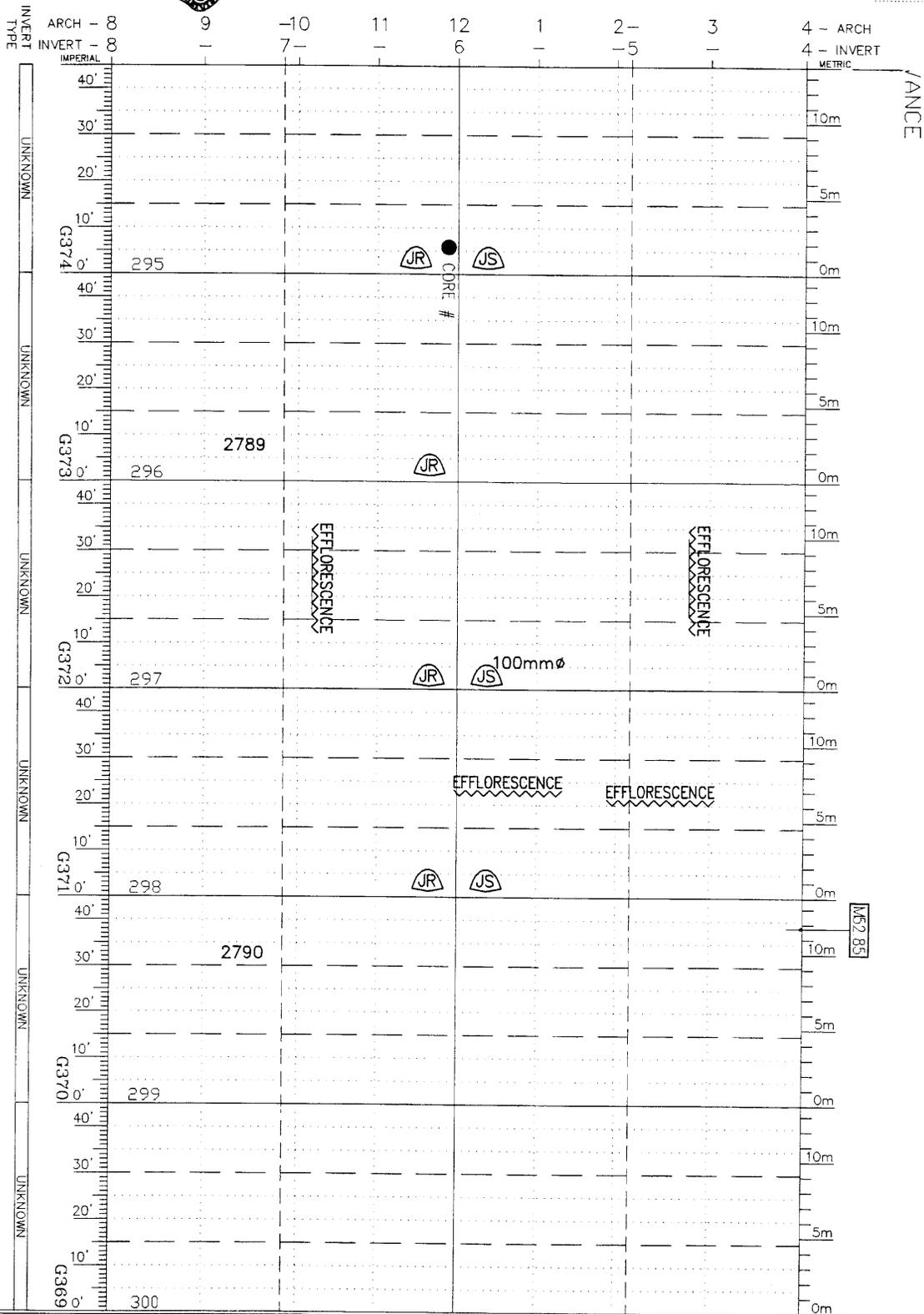


<b>LEGEND</b> <small>NOTE: ALL SIZES AND DIMENSIONS IN mm</small>	<b>CRACKS:</b> ARCH $\frac{\text{Width}}{\text{P}}$ REPAIRED $\frac{R}{-}$ INVERT $\frac{\text{Width}}{\text{P}}$ REPAIRED $\frac{R}{-}$	BOTTOM-IN OFFSET BOTTOM-OUT OFFSET MULTIPLE CRACKING REPAIRS - PRE-1994 CEMENTITIOUS INJECTION	BI O/S BO O/S MULTIPLE P R	DEFECTIVE CONCRETE: (TYPE) LENGTH x WIDTH CLOCK REFERENCE	SPALLING HONEYCOMB REPAIRS - PRE-1994 CONCRETE REPAIRS PATCH-EPOXY PATCH-CEMENTITIOUS	SP EROSION/WEAR HC DELAMINATED RC PE PC	EW DC RC PE PC	<p>CLOCK REFERENCE LOOKING DOWNSTREAM</p> <p><math>v &gt; 9'</math>, <math>x = 6'</math>  <math>7' &lt; v &lt;= 9'</math>, <math>x = 5'</math>  <math>5' &lt; v &lt;= 7'</math>, <math>x = 4'</math></p>
	WATER INFILTRATION: (TYPE) ARCH (TYPE) INVERT	SEEPER RUNNER WS WR GUSHER BROWN STAIN WG BS	JOINTS: (TYPE) ARCH REPAIRED (TYPE) INVERT REPAIRED	OPEN DISPLACED JO SPALLED JD WATERTIGHT REPAIRS - PRE-1994 INJECTION MEMBRANE	JR JS JW JS JW JR NEOPRENE SEAL JI REPAIRED JM SPRINGLINE	REVISIONS:		

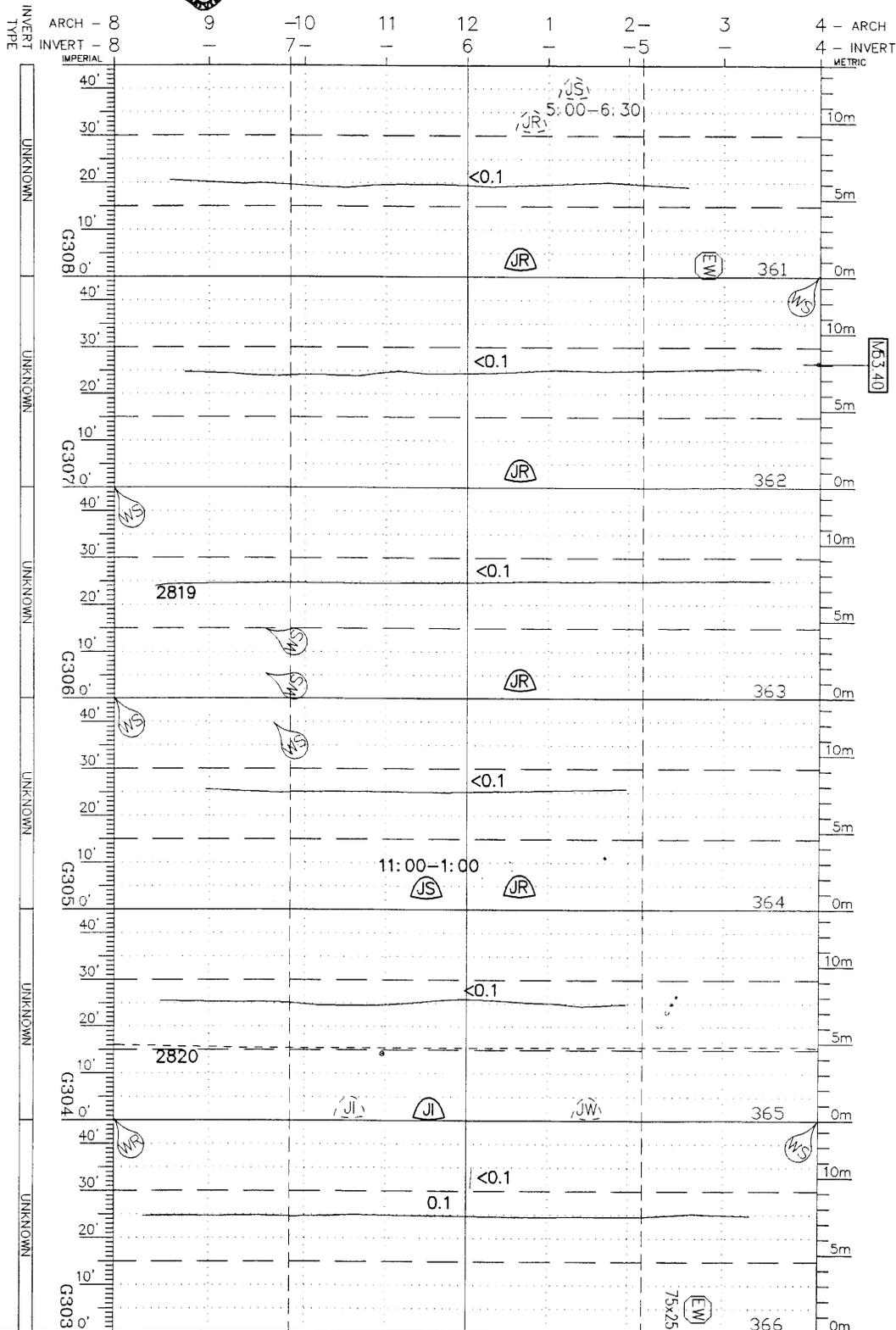


**LEGEND**  
NOTE: ALL SIZES AND DIMENSIONS IN mm

<b>CRACKS:</b> ARCH <u>Width/P</u> REPAIRED <u>R</u> INVERT <u>Width/P</u> REPAIRED <u>R</u>		BOTTOM-IN OFFSET BOTTOM-OUT OFFSET MULTIPLE CRACKING REPAIRS - PRE-1994 CEMENTITIOUS INJECTION		BI O/S BO O/S MULTIPLE P R		DEFECTIVE CONCRETE: LENGTH x WIDTH CLOCK REFERENCE (TYPE) ARCH REPAIRED (TYPE) INVERT REPAIRED		SPALLING HONEYCOMB REPAIRS - PRE-1994 CONCRETE REPAIRS PATCH-EPOXY PATCH-CEMENTITIOUS		SP EROSION/WEAR HC DELAMINATED REPAIRS - PRE-1994 CONCRETE REPAIRS PATCH-EPOXY PATCH-CEMENTITIOUS		EW DC RC PE PC			
<b>WATER INFILTRATION:</b> (TYPE) ARCH (TYPE) INVERT		SEEPER WS RUNNER WR		GUSHER BROWN STAIN		WG BS		<b>JOINTS:</b> (TYPE) ARCH (TYPE) REPAIRED (TYPE) INVERT (TYPE) REPAIRED		OPEN DISPLACED REPAIRS - PRE-1994 INJECTION MEMBRANE		JO SPALLED JD WATERTIGHT REPAIRS - JR NEOPRENE SEAL JI REPAIRED JM SPRINGLINE		JS JW JN JN	
<b>MANHOLES:</b> STANDARD PRESSURE BURIED		SMH PMH BMH		INTERNAL STRENGTHENING: EXTERNAL STRENGTHENING: GRAVEL BALLAST:		IS ES GB		REPAIRS - JR NEOPRENE SEAL JI REPAIRED JM SPRINGLINE		REVISIONS:		Mileage Plaque (Diagram showing clock reference for arch defects)			



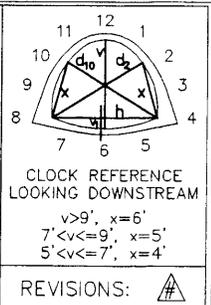
<b>LEGEND</b> NOTE: ALL SIZES AND DIMENSIONS IN mm	<b>CRACKS:</b> ARCH $\frac{\text{Width}}{P}$ REPAIRED $\frac{R}{-}$ INVERT $\frac{\text{Width}}{P}$ REPAIRED $\frac{R}{-}$	BOTTOM-IN OFFSET BOTTOM-OUT OFFSET MULTIPLE CRACKING REPAIRS - PRE-1994 CEMENTITIOUS INJECTION	BI O/S BO O/S MULTIPLE P R	DEFECTIVE CONCRETE: (TYPE) LENGTH x WIDTH CLOCK REFERENCE	SPALLING HONEYCOMB REPAIRS - PRE-1994 CONCRETE PATCH-EPOXY PATCH-CEMENTITIOUS	SP EROSION/WEAR HC DELAMINATED RC PE PC	EW DC	CLOCK REFERENCE LOOKING DOWNSTREAM $v > 9'$ , $x = 6'$ $7' < v <= 9'$ , $x = 5'$ $5' < v <= 7'$ , $x = 4'$
	<b>WATER INFILTRATION:</b> (TYPE) ARCH (TYPE) INVERT	SEEPER RUNNER WS WR	GUSHER BROWN STAIN WG BS	JOINTS: (TYPE) ARCH REPAIRED (TYPE) INVERT REPAIRED	OPEN DISPLACED REPAIRS - PRE-1994 INJECTION MEMBRANE	JO SPALLED JD WATERTIGHT JR NEOPRENE SEAL JI REPAIRED JM SPRINGLINE	JS JW JN	



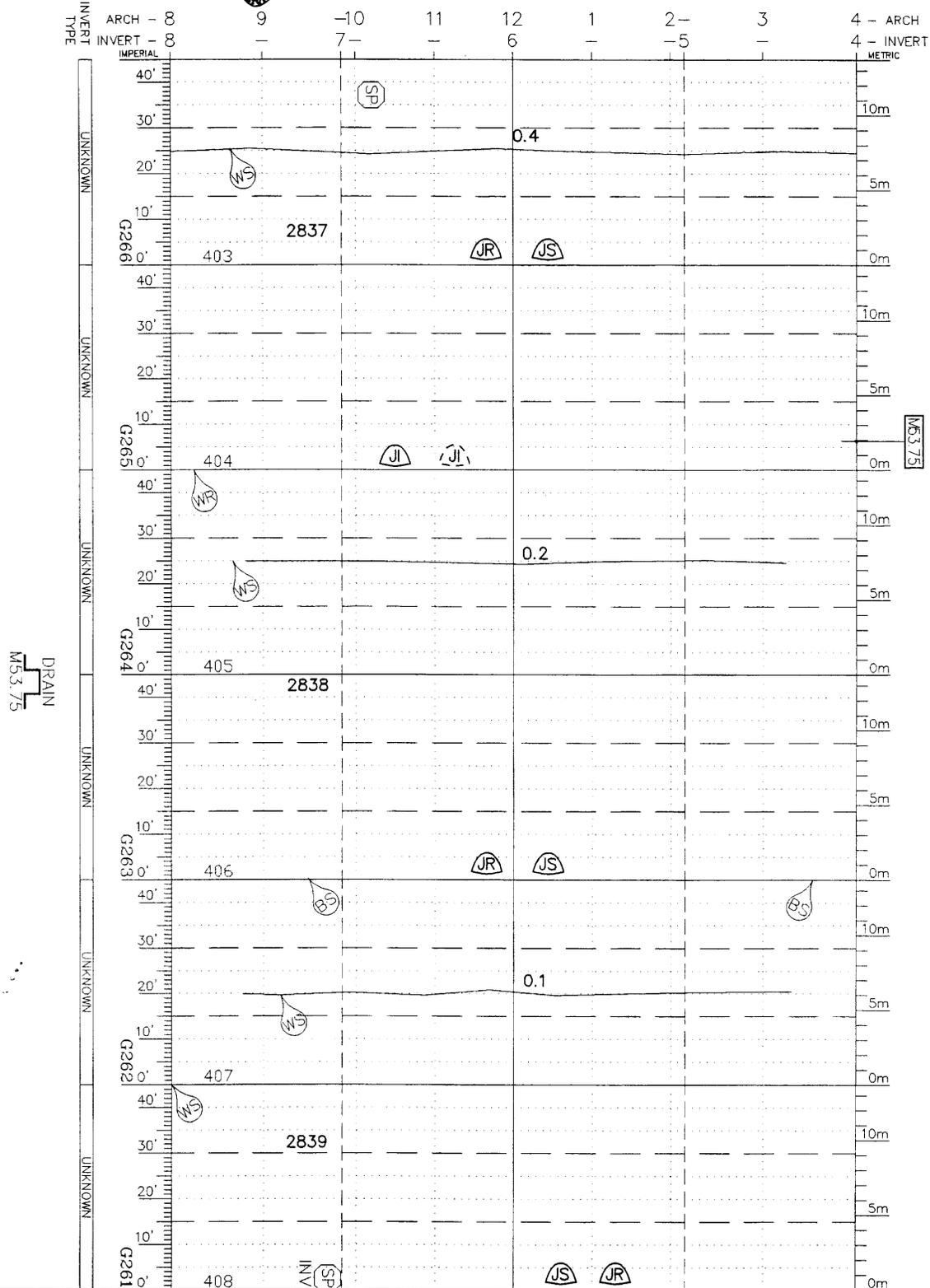
DOWNSTREAM ↑


**LEGEND**  
 NOTE: ALL SIZES AND DIMENSIONS IN mm

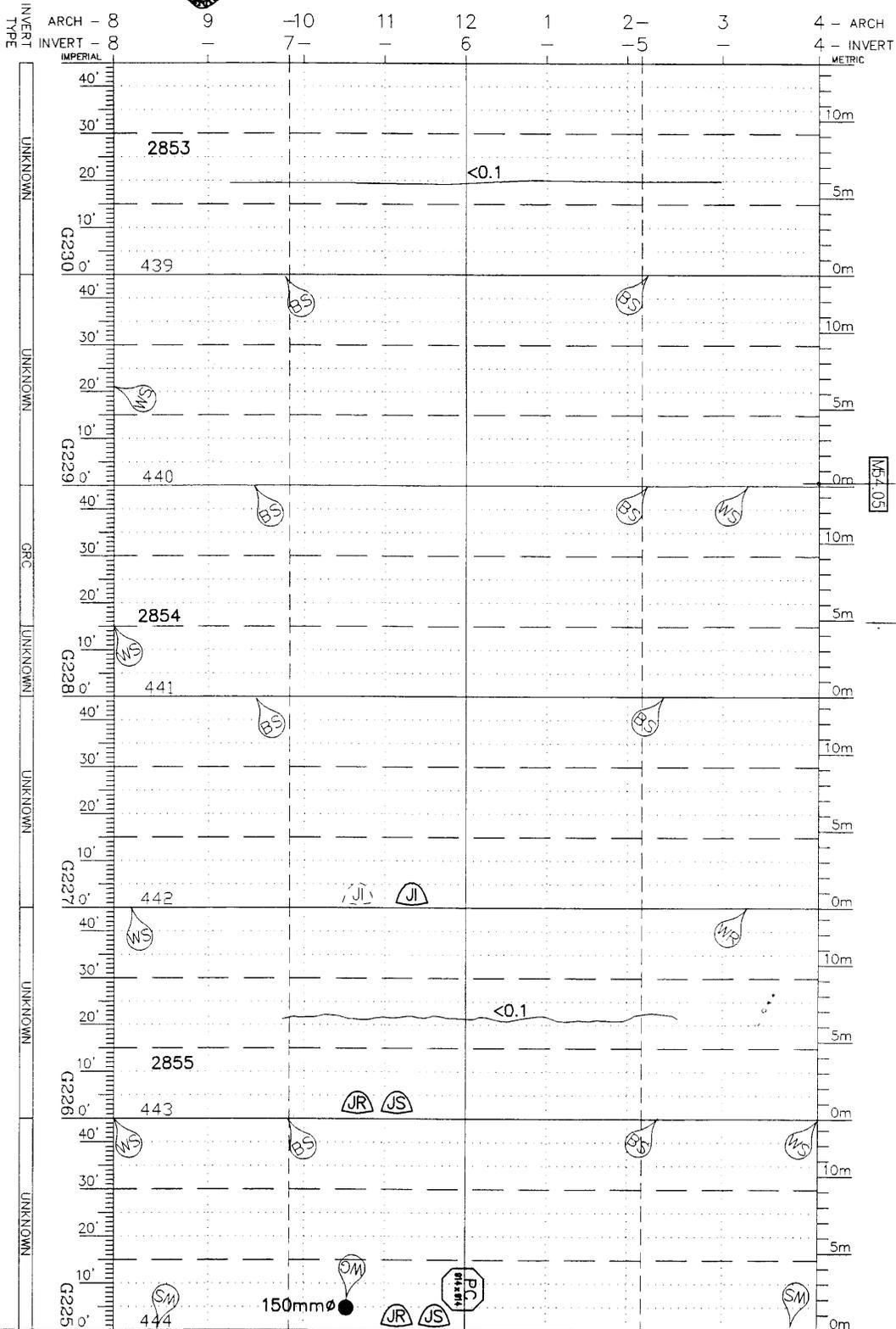
<b>CRACKS:</b> ARCH <u>Width/P</u> REPAIRED <u>R</u> INVERT <u>Width/P</u> REPAIRED <u>R</u>		BOTTOM-IN OFFSET BOTTOM-OUT OFFSET MULTIPLE CRACKING REPAIRS - PRE-1994 CEMENTITIOUS INJECTION		BI O/S BO O/S MULTIPLE		DEFECTIVE CONCRETE: (TYPE) LENGTH x WIDTH CLOCK REFERENCE		SPALLING SP EROSION/WEAR HONEYCOMB HC DELAMINATED		EW DC			
<b>WATER INFILTRATION:</b> (TYPE) ARCH (TYPE) INVERT		SEEPER WS RUNNER WR		GUSHER BROWN STAIN		WG BS		JOINTS: (TYPE) ARCH (TYPE) REPAIRED (TYPE) INVERT (TYPE) REPAIRED		OPEN JO SPALLED DISPLACED JD WATERTIGHT		JS JW	
<b>MANHOLES:</b> STANDARD PRESSURE BURIED		SMH PMH BMH		INTERNAL STRENGTHENING: IS EXTERNAL STRENGTHENING: ES GRAVEL BALLAST: GB		(TYPE) ARCH (TYPE) REPAIRED (TYPE) INVERT (TYPE) REPAIRED		REPAIRS - PRE-1994 JR NEOPRENE SEAL INJECTION JI REPAIRED MEMBRANE JM SPRINGLINE		RC PE PC		(TYPE) ARCH (TYPE) REPAIRED (TYPE) INVERT (TYPE) REPAIRED	







<b>LEGEND</b> <small>NOTE: ALL SIZES AND DIMENSIONS IN mm</small>		<b>CRACKS:</b> ARCH $\frac{\text{Width}}{\text{P}}$ REPAIRED $\frac{\text{R}}{\text{R}}$ INVERT $\frac{\text{Width}}{\text{P}}$ REPAIRED $\frac{\text{R}}{\text{R}}$		BOTTOM-IN OFFSET BI O/S BOTTOM-OUT OFFSET BO O/S MULTIPLE CRACKING MULTIPLE REPAIRS - PRE-1994 CEMENTITIOUS INJECTION P R		<b>DEFECTIVE CONCRETE:</b> (TYPE) LENGTH x WIDTH CLOCK REFERENCE		SPALLING SP EROSION/WEAR EW HONEYCOMB HC DELAMINATED DC REPAIRS - PRE-1994 CONCRETE REPAIRS RC PATCH-EPOXY PE PATCH-CEMENTITIOUS PC		CLOCK REFERENCE LOOKING DOWNSTREAM $v > 9'$ , $x = 6'$ $7' < v \leq 9'$ , $x = 5'$ $5' < v \leq 7'$ , $x = 4'$
<b>WATER INFILTRATION:</b> (TYPE) ARCH (TYPE) INVERT		SEEPER WS GUSHER WG RUNNER WR BROWN STAIN BS		<b>JOINTS:</b> (TYPE) ARCH (TYPE) REPAIRED (TYPE) INVERT (TYPE) REPAIRED		OPEN JO SPALLED JS DISPLACED JD WATERTIGHT JW REPAIRS - PRE-1994 JR NEOPRENE SEAL JN INJECTION JI REPAIRED MEMBRANE JM SPRINGLINE		REVISIONS:		
<b>MANHOLES:</b> STANDARD SMH PRESSURE PMH BURIED BMH		INTERNAL STRENGTHENING:  IS EXTERNAL STRENGTHENING:  ES GRAVEL BALLAST:  GB								

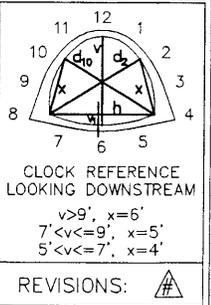


DOWNSTREAM ↑

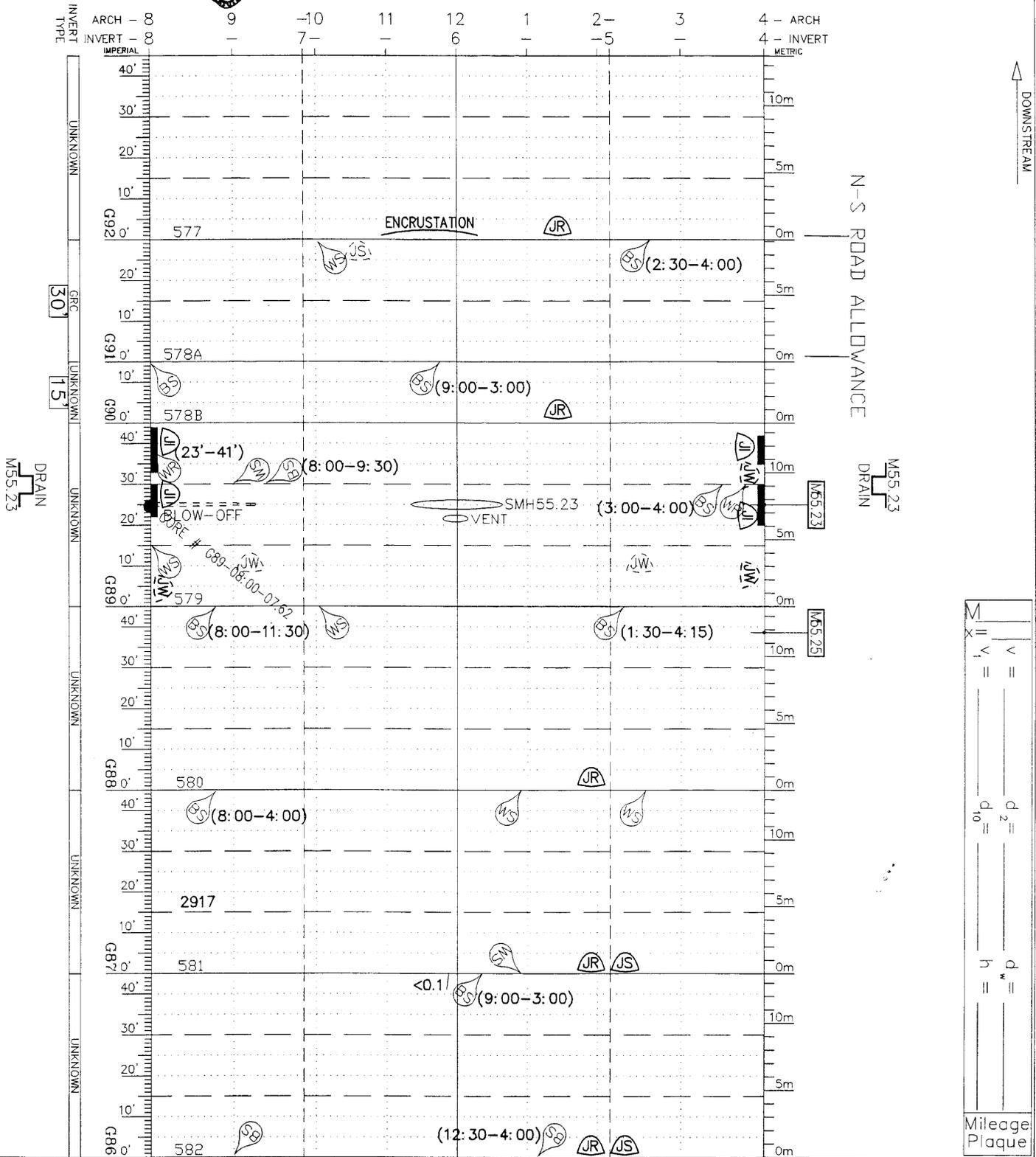
N-S ROAD ALLOWANCE


**LEGEND**  
 NOTE: ALL SIZES  
 AND DIMENSIONS  
 IN mm

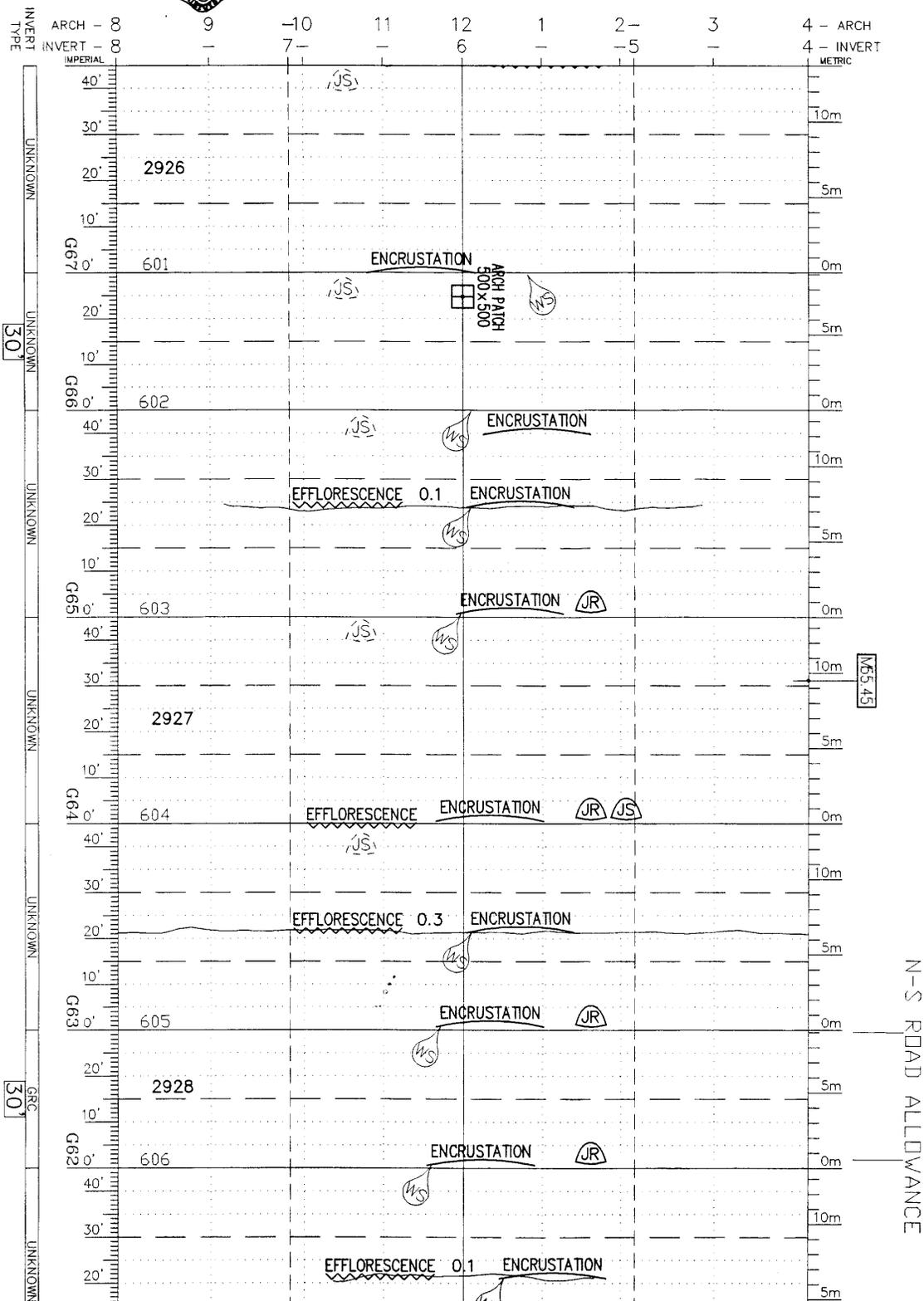
<b>CRACKS:</b> ARCH $\frac{\text{Width}}{\text{P}}$ REPAIRED $\frac{R}{-}$ INVERT $\frac{\text{Width}}{\text{P}}$ REPAIRED $\frac{R}{-}$	BOTTOM-IN OFFSET BOTTOM-OUT OFFSET MULTIPLE CRACKING REPAIRS - PRE-1994 CEMENTITIOUS INJECTION	BI O/S BO O/S MULTIPLE P R	DEFECTIVE CONCRETE: (TYPE) LENGTH x WIDTH CLOCK REFERENCE	SPALLING HONEYCOMB REPAIRS - PRE-1994 CONCRETE REPAIRS PATCH-EPOXY PATCH-CEMENTITIOUS	SP EROSION/WEAR HC DELAMINATED REPAIRS - PRE-1994 CONCRETE REPAIRS PATCH-EPOXY PATCH-CEMENTITIOUS	EW DC RC PE PC	
	WATER INFILTRATION: (TYPE) ARCH (TYPE) INVERT	SEEPER WS RUNNER WR GUSHER BROWN STAIN WG BS	JOINTS: (TYPE) ARCH (TYPE) INVERT (TYPE) REPAIRED (TYPE) REPAIRED	OPEN DISPLACED REPAIRS - PRE-1994 INJECTION MEMBRANE	JO SPALLED JD WATERTIGHT REPAIRS - PRE-1994 INJECTION MEMBRANE	JS JW JR NEOPRENE SEAL JI REPAIRED JM SPRINGLINE	MANHOLES: STANDARD PRESSURE BURIED SMH PMH BMH INTERNAL STRENGTHENING: EXTERNAL STRENGTHENING: GRAVEL BALLAST:







<b>LEGEND</b> <small>NOTE: ALL SIZES AND DIMENSIONS IN mm</small>	<b>CRACKS:</b> ARCH <u>Width/P</u> REPAIRED <u>R</u> INVERT <u>Width/P</u> REPAIRED <u>R</u>	BOTTOM-IN OFFSET BOTTOM-OUT OFFSET MULTIPLE CRACKING REPAIRS - PRE-1994 CEMENTITIOUS INJECTION	BI O/S BO O/S MULTIPLE P R	DEFECTIVE CONCRETE: (TYPE) LENGTH x WIDTH CLOCK REFERENCE	SPALLING HONEYCOMB REPAIRS - PRE-1994 CONCRETE REPAIRS PATCH-EPOXY PATCH-CEMENTITIOUS	SP EROSION/WEAR HC DELAMINATED RC PE PC	EW DC RC PE PC	<p>CLOCK REFERENCE LOOKING DOWNSTREAM</p> <p>v&gt;9', x=6' 7'&lt;v&lt;=9', x=5' 5'&lt;v&lt;=7', x=4'</p>
	WATER INFILTRATION: (TYPE) ARCH (TYPE) INVERT	SEEPER WS RUNNER WR GUSHER BROWN STAIN WG BS	JOINTS: (TYPE) ARCH (TYPE) REPAIRED (TYPE) INVERT (TYPE) REPAIRED	OPEN DISPLACED REPAIRS - PRE-1994 INJECTION MEMBRANE	JO SPALLED JD WATERTIGHT JR NEOPRENE SEAL JI REPAIRED JM SPRINGLINE	REVISIONS:		



↑  
DOWNS/STREAM



LEGEND  
NOTE: ALL SIZES AND DIMENSIONS IN mm  
UMI - ARCH.DWG (REV 2002.07.25)

CRACKS: ARCH $\frac{\text{Width/P}}{\text{Width/P}}$ REPAIRED $\frac{R}{R}$ INVERT $\frac{\text{Width/P}}{\text{Width/P}}$ REPAIRED $\frac{R}{R}$		BOTTOM-IN OFFSET BOTTOM-OUT OFFSET MULTIPLE CRACKING REPAIRS - PRE-1994 CEMENTITIOUS INJECTION		BI O/S BO O/S MULTIPLE P R		DEFECTIVE CONCRETE: (TYPE) LENGTH x WIDTH CLOCK REFERENCE		SPALLING HONEYCOMB REPAIRS - PRE-1994 CONCRETE PATCH-EPOXY PATCH-CEMENTITIOUS		SP EROSION/WEAR HC DELAMINATED REPAIRS - JR NEOPRENE SEAL JM SPRINGLINE		EW DC RC PE PC	
WATER INFILTRATION: (TYPE) ARCH (TYPE) INVERT		SEEPER WS RUNNER WR		GUSHER WG BROWN STAIN BS		JOINTS: (TYPE) ARCH (TYPE) INVERT		OPEN DISPLACED REPAIRS - PRE-1994 INJECTION MEMBRANE		JO SPALLED JD WATERTIGHT JR NEOPRENE SEAL JI REPAIRED		JS JW	
MANHOLES: STANDARD PRESSURE BURIED		SMH PMH BMH		INTERNAL STRENGTHENING: IS EXTERNAL STRENGTHENING: ES GRAVEL BALLAST: GB		(TYPE) ARCH (TYPE) INVERT		REPAIRS - PRE-1994 INJECTION MEMBRANE		JR NEOPRENE SEAL JI REPAIRED		REVISIONS:	

