

		900 FM CROSSI RAIL CROSSING NOTES	ING				
		RAILWAY MILEAGE AND S					
SHOO SSHOO SSAO SSHOO SSHOO SSHOO SSAO SSHOO SSA	NAME OF PIPELINE OWNEF			POTABLE WATER		IN 1	
E NEW S MAIN N N N N N N N N N N N N N N N N N N N	- 236	MAXIMUM OPERATING PF MAXIMUM SURGE AND TE	RESSURE 5 EST PRESSURE 8	551 kPa 827 kPa			
		MAXIMUM OPERATING TE MINIMUM OPERATING TE		0° C ° C			
7.00 9.00 INSULATION INSULATION TOP OF RAIL	- 235	PIPING MATERIALS NOMINAL DIAMETER	8	95	CASING 1450		
TOP OF RAIL EL 234.460 EL 234.297 I	-	OUTSIDE DIAMETER MATERIAL	Р	VC	1473 WELDED STEEL	244 МПА	
	- 234	SPECIFICATION AND GRA			MIN. YIELD STRENGTH	241 MPA	
EX HYDRO	-	TYPE OF JOINT COATING	G	GASKETED BELL & SPIGOT	PERMALOK EPOXY OR POLYURETH	HANE	
PERMANENT DITCH PROFILE	233	METHOD OF INSTALLATIO	ON TRENC	HLESS			
See Rail DRAWING)			I/A NUMBE IEIGHT ABOVE GROUND		N/A N/A		
(DEPTH UNKNOWN) INV 232.257 EX COMM CABLE INV 232.257	- 232	SEALS			PSI MODEL W-EPDM		
	-		ASE OF RAIL TO TOP OF		3.172 (PROPOSED MAIN LINE)		
	- 231		IOT BENEATH TRACKS	RPENDICULAR TO CENTREL	1.18 (PROPOSED DITCH)		
		ANGLE OF PIPE / TRACK			72°		
67.10 OF NEW 900Ø AWWA C900 PVC DR25 FEEDER MAIN (RESTRAINED JOINTS)	- 230	230 DIRECTION OF FLOW				BI-DIRECTIONAL	
	200	TYPE, SIZE AND SPACING				SI MODEL S METALLIC SPACERS	
45.26 OF NEW 1450Ø STEEL CASING (TRENCHLESS INSTALLATION)					200 RUNNER HEIGHT 3.05 O.C. (MAX) 8 (TOTAL) - 11.5Kg ZINC ANODES		
		GEOTECHNICAL BOREHC SOIL TYPE			SEE PROFILE CLAY		
DO 11E 00 200 00 200 00 00 00 00 00 00 00 00 0	- 228	BASE OF RAIL TO GROUN		N/A E IN ACCORDANCE WITH TC E10			
3.91 9() 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		NOTE. INSTALLATION AND					
0+100 0+103.9 0+103.9	0	NOTES:					
				NTS TO BE RESTRAINED EXCE TY SHALL BE UNDERTAKEN IN		BID OPPORTUNITY	
			ND CN REQUIREMENTS. CHEDULE:				
- SHAFTS SHALL BE BACKFILLED PRIOR TO OCTOBER 6th, 2017 - SHAFTS SHALL BE BACKFILLED PRIOR TO OCTOBER 6th, 2017 - SHAFTS SHALL BE BACKFILLED PRIOR TO OCTOBER 6th, 2017 - SHUTDOWN AND DRAINING OF THE MIDTOWN FEEDER MAIN IS REQUIRED TO COMPLETE WO COORDINATE WITH THE CONTACT ADMINISTRATOR AS SPECIFIED IN THE BID OPPORTUNITY							
						ORTUNITY.	
AF A A A A A A A A A A A A A A A A A A	OF EXCAVATION	FOR NORTH PR ON DEPTH 1.0	RIOR TO COMMENCING W	EXPOSE THE FEEDER MAIN TO ITH SHORING INSTALLATION.			
	RIED			L EXPOSE ALL BURIED COM E WORK AND COORDINATE			
	SHALL BE SUPPORTED ACROSS THE EXCAVATION						
• ISOLATION VALVES LOCATED AT:							
FEEDER MAIN EASEMENT & C.N. PROPERTY AS SHOWN & WHERE REQUESTED BY THE CONTRACT ADMINISTRATOR • SITE ACCESS THROUGH CN RIGHT-OF-WAY AND FEEDER MAIN EASEMENTS AS SHOWN ON THIS DRAWING. • KEEP CONSTRUCTION ECOTORDINT WITHIN CN PROPERTY AND FEEDER MAIN EASEMENTS						S AS SHOWN ON	
	KEEP CONSTRUCTION FOOTPRINT WITHIN CN PROPERTY AND FEEDER MAIN EASEMENTS SHOWN ON DRAWINGS.				N EASEMENTS		
		INSULATION TO BE INSTALLED DURING RAIL EMBANKMENT CONSTRUCTION. SEE DETAIL DWG No. C2-CU-030			I. SEE DETAIL DWG		
NEW 900Ø AWWA C900 PVC DR 25 FEEDER MAIN		ANODES TO BE INSTALLED WITHIN SHAFTS, EMBEDDED WITHIN UNDERLYING NATIVE SOILS WITH A 1.5 MINIMUM SEPARATION			NG NATIVE SOILS		
NEW 1450Ø STEEL CASING		vv					
	M			_	- 1/50/2 0755		
	RMAIN				1450Ø STEEL 22.2mm WALL 1473 OUTSIDE	THICKNESS	
EASEMENT							
	+		NEW 900Ø AWWA O DR25 PVC FEEDER M		SPACERS (IN	TEEL CASING DICATIVE ONLY)	
45.26 45.26 0 00 00 00 00 00 00 00 00 00 00 00 00 0					RUNNER HEI	ыні = 200±	
					PIPE DETAI		
		NG 900 FEEDER MAIN	-		1:: 1::		
ABANDONED (BY OTHERS)							
$\frac{1}{1} = \frac{1}{1} = \frac{1}$	HORING (INDICAT					A PEGIN	
ATH-14-06 Z T I I I I I I I I I I I I I I I I I I		TION				ate of Authorization	
						OM Canada Ltd.	
			JMBERS INDICATE MILLI ED NUMBERS INDICATE		No. 4671	Date: RTUNITY NO. 473-2016	
		ENGINEER'S SEAL	Q				
UNDERGROUND STRUCTURES ELEV.		NOTINCE OF MANING		THE CIT	Y OF W		
LDS SUPV. U/G STRUCTURES DATE	-	A. D.	Winnipèg		<u> </u>		
DESIGNED BY ADB BY		Member 24453	CONTRACT 2: U	TUNDERPASS AT CN MILE JNDERPASS STRUCTURE,	RAILWORKS,	ITY DRAWING NUMBER U239-2016-C2-CU-028	
LOCATION OF UNDERGROUND STRUCTURES AS SHOWN ARE BASED ON THE BEST INFORMATION AVIAL ARE BUT NO CHARANTEE IS CIVEN		PROFESSIONAL PROFESSIONAL	· · · · · · · · · · · · · · · · · · ·	ND DRAINAGE SEWER, PU ND LANDSCAPING WORKS		HEET OF 28 41	
LOCATION OF UNDERGROUND STRUCTURES AS SHOWN ARE BASED ON THE BEST INFORMATION AVAILABLE. BUT NO GUARANTEE IS GIVEN THAT THE GIVEN LOCATIONS ARE EXACT. CONFIRMATION OF EXISTENCE AND EXACT. CONFIRMATION OF EXISTENCE AND EXACT. CONFIRMATION OF EXISTENCE AND EXACT. DOBTAINED FROM THE INDIVIDUAL UTILITIES BEFORE PROCEEDING WITH CONSTRUCTION. 1 ISSUED FOR ADDENDUM 5 17/03/02 WJd HOR. SCALE 1:250 RELEASED FOR CONSTRUCTION		CONSULTANT PROJECT NUMBER	EXISTIN		R MAIN	ONSULTANT DRAWING NUMBER	
EW LOCATION OF ALL SERVICES MUST BE OBTAINED FROM THE INDIVIDUAL UTILITIES BEFORE PROCEEDING WITH CONSTRUCTION. 0 ISSUED FOR TENDER 17/01/09 VERTICAL 1.50 EW NO. REVISIONS DATE BY DATE DATE		60321148	FEEDER M	PLAN/PROFILE AIN OFF-LINE REPLA	ACEMENT	C2-CU-028	