NEW FEEDER MAIN CONNECTION - SOUTH END

SHORING NOTES:

WARNING

IF POWER EQUIPMENT OR EXPLOSIVES ARE TO BE

1. NOTIFY THE GAS COMPANY OF THE PROPOSED

COMPANY INSTALLATIONS SEE PROVINCIAL

OBTAIN EXCAVATION PERMITS PRIOR TO

TAKE PRECAUTION TO AVOID DAMAGE TO GAS

USED FOR EXCAVATION ON THIS PROJECT THE

CONTRACTOR MUST:

CONSTRUCTION.

LOCATION OF EXCAVATION.

REGULATION 210/72 FOR DETAILS.

- THE CONTRACTOR IS RESPONSIBLE FOR DESIGN & LAYOUT OF SHORING SYSTEMS
- THE CONTRACTOR SHALL CONSTRUCT A TIGHT SHORING SYSTEM TO A MINIMUM OF 150 ABOVE THE TOP OF THE EXISTING FEEDER MAIN TO PROTECT THE EX FEEDER MAIN AND EMBEDMENT SOILS FROM MOVEMENT & UNDERMINING UNTIL COMMENCEMENT OF EXCAVATION FOR THE FINAL TIE-INS
- SHAFTS SHALL BE BACKFILLED WITH CW2030 TYPE 2 MATERIAL, COMPACTED TO 95% SPMDD TO A MINIMUM OF 300 ABOVE THE TOP OF THE THRUST BLOCKS
- SHORING REMOVAL AND BACKFILLING SHALL BE STAGED TO PROCLUDE VOIDS BEHIND AND ADJACENT TO THE THRUST BLOCKS EXCEPT WHERE NOTED
- SHORING TO BE LEFT IN PLACE WHERE THRUST BLOCKS ARE CAST AGAINST THE SHORING WALL. SHORING TO BE CUT-OFF WITHIN 0.3 OF THE TOP OF THE THRUST BLOCK. ALL OTHER SHORING TO BE REMOVED
- IF TIMBER LAGGING IS USED, IT SHALL BE REMOVED (WHERE SHORING LEFT-IN-PLACE) PRIOR TO CASTING CONCRETE THRUST BLOCKS. TIMBER LAGGING MAY REMAIN **ELSEWHERE**

FEEDER MAIN CONNECTION NOTES:

- ALL PVC PIPE JOINTS TO BE RESTRAINED
- THRUST BLOCKS SHALL ACHIEVE A MINIMUM COMPRESSIVE STRENGTH OF 20MPa PRIOR TO PUTTING THE FEEDER MAIN INTO SERVICE
- CONTRACTOR TO CONFIRM GEOMETRY & LAYOUT OF TIE-IN PIPING & FITTINGS PRIOR TO ASSEMBLY/INSTALLATION & CONSTRUCTION OF THE CONCRETE THRUST BLOCKS



COORDINATE TABLE

POINT NUMBER	NORTHING	EASTING
1 - SOUTH END CONNECTION	5523566.705	631069.184
2 - 45° BEND	5523570.642	631069.304
3 - 45° BEND	5523574.761	631065.429
4 - BEGIN CASING	5523576.177	631065.472
5 - END CASING	5523618.679	631066.768
6 - 50° BEND	5523619.966	631066.808
7 - 50° BEND	5523623.199	631070.908
8 - NORTH END CONNECTION	5523625.355	631070.974
9 - 4 AIR RELEASE CHAMBER	5523566.405	631069.175
10 - 50Ø BLOW-OFF VALVE	5523567.004	631069.194

NEW FEEDER MAIN CONNECTION - NORTH END

<u>/2</u>\

METRIC WHOLE NUMBERS INDICATE MILLIMETRES DECIMALIZED NUMBERS INDICATE METRES



BID	OPPC	RTU	YTIV	NO.	473-20	016

C2-CU-029

ŏ										_
0\2	150 WM	WATER MAIN	150_WM		PIPE ABANDONMENTS		150 WM	WATER MAIN	150 WM	
CA		HYDRANT	+	+	SURVEY BAR		†	HYDRANT		UNDE
DO	8	VALVE	•	σ̈	CURB STOP	•	X	VALVE	$\overline{\mathbf{x}}$	
-00	300 LDS	LAND DRAINAGE SEWER	300 LDS		REDUCER		300 LDS	LAND DRAINAGE SEWER	300 LDS	
91	250 WWS	WASTE WATER SEWER	250 WWS	X	COUPLING			WASTE WATER SEWER	250 WWS	SUPV. U
ork		SEWER SERVICE PIPE	SSP	N	ANODE	J.		PAVEMENT CROWN		
M-(DRAINAGE CONNECTION PIPE			HYDRO			N/W PROPERTY LINE		
906	0	MANHOLE	•		MTS			S/E PROPERTY LINE		LOCATIO
48		CATCH BASIN			GAS			N/W GUTTER		LOCATION SHOWN A AVAILAE
211,	Δ	CURB INLET	A	•	TESTHOLE		$- \leftarrow -$	S/E GUTTER		THAT ALL THAT TI
3032		CULVERT		•••	LAMP STANDARD					AVAILAE THAT AL THAT TI CONFIRM LOCATION OBTAINE BEFORE
P:\6	EXISTING	LEGEND - PLAN	NEW	EXISTING	LEGEND - PLAN	NEW	EXISTING	LEGEND - PROFILE	NEW	BEFORE

JNDERGROUND STRUCTURES UPV. U/G STRUCTURES DATE		V.			A = /		ENGINEER'S SEAL		
					4	AEC		A. D.	
or v. eye encoronee					DESIGNED BY	ADB	CHECKED BY	REG BRAUN Member	
DCATION OF UNDERGROUND STRUCTURES AS	3	ISSUED FOR ADDENDUM 7	17/03/15	WJd	DRAWN BY	WJd	APPROVED BY		
OCATION OF UNDERGROUND STRUCTURES AS HOWN ARE BASED ON THE BEST INFORMATION VAILABLE. BUT NO GUARANTEE IS GIVEN HAT ALL EXISTING UTILITIES ARE SHOWN OR	2	ISSUED FOR ADDENDUM 6	17/03/09		HOR. SCALE	ACNOTED	RELEASED FOR	POFESSIONA	
HAT THE GIVEN LOCATIONS ARE EXACT. ONFIRMATION OF EXISTENCE AND EXACT.	1	ISSUED FOR ADDENDUM 5	17/03/02			AS NOTED	CONSTRUCTION	CONSULTANT PROJECT NUMBER	
OCATION OF ALL SERVICES MUST BE BEAUTION OF ALL SERVICES MUST BE BEFORE PROCEEDING WITH CONSTRUCTION.		ISSUED FOR TENDER	17/01/09	WJd	VERTICAL	AS NOTED			
EFORE PROCEEDING WITH CONSTRUCTION.	NO.	REVISIONS	DATE	BY	DATE		DATE	60321148	

0	THE CITY OF WINNIPEG
XX7°	PUBLIC WORKS DEPARTMENT

FM OFF-LINE REPLACEMENT DETAILS 1

Winnipeg			
WAVERLEY STREET UNDERPASS AT CN MILE 3.89 RIVERS SUB CONTRACT 2: UNDERPASS STRUCTURE, RAILWORKS,	CITY DRAWING NUMBER U239-2016-C2-CU-029		
ROADWORKS, LAND DRAINAGE SEWER, PUMPING STATION AND LANDSCAPING WORKS	SHEET OF 29 41		
EXISTING MIDTOWN FEEDER MAIN RAIL CROSSING	CONSULTANT DRAWING NUMBER		
NAIL ONOGOING	C_{2} C_{11} C_{20}		