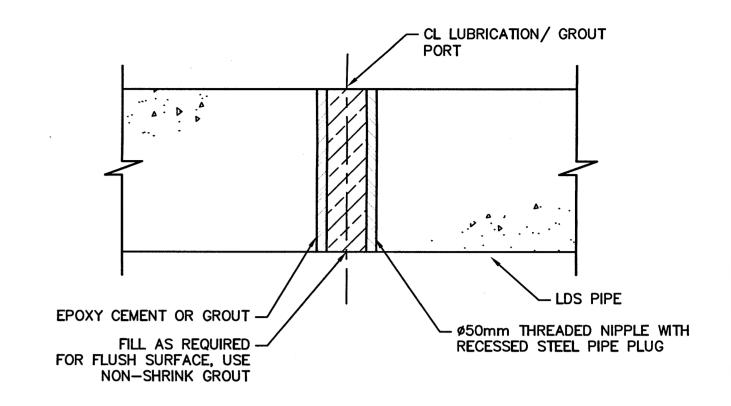


NOTE: CONTRACTOR SHALL SELECT APPROPRIATE PIPE JOINT TO BE COMPATIBLE WITH PLANNED TUNNELING OPERATIONS.

2 SAMPLE JACKING PIPE JOINT DETAIL

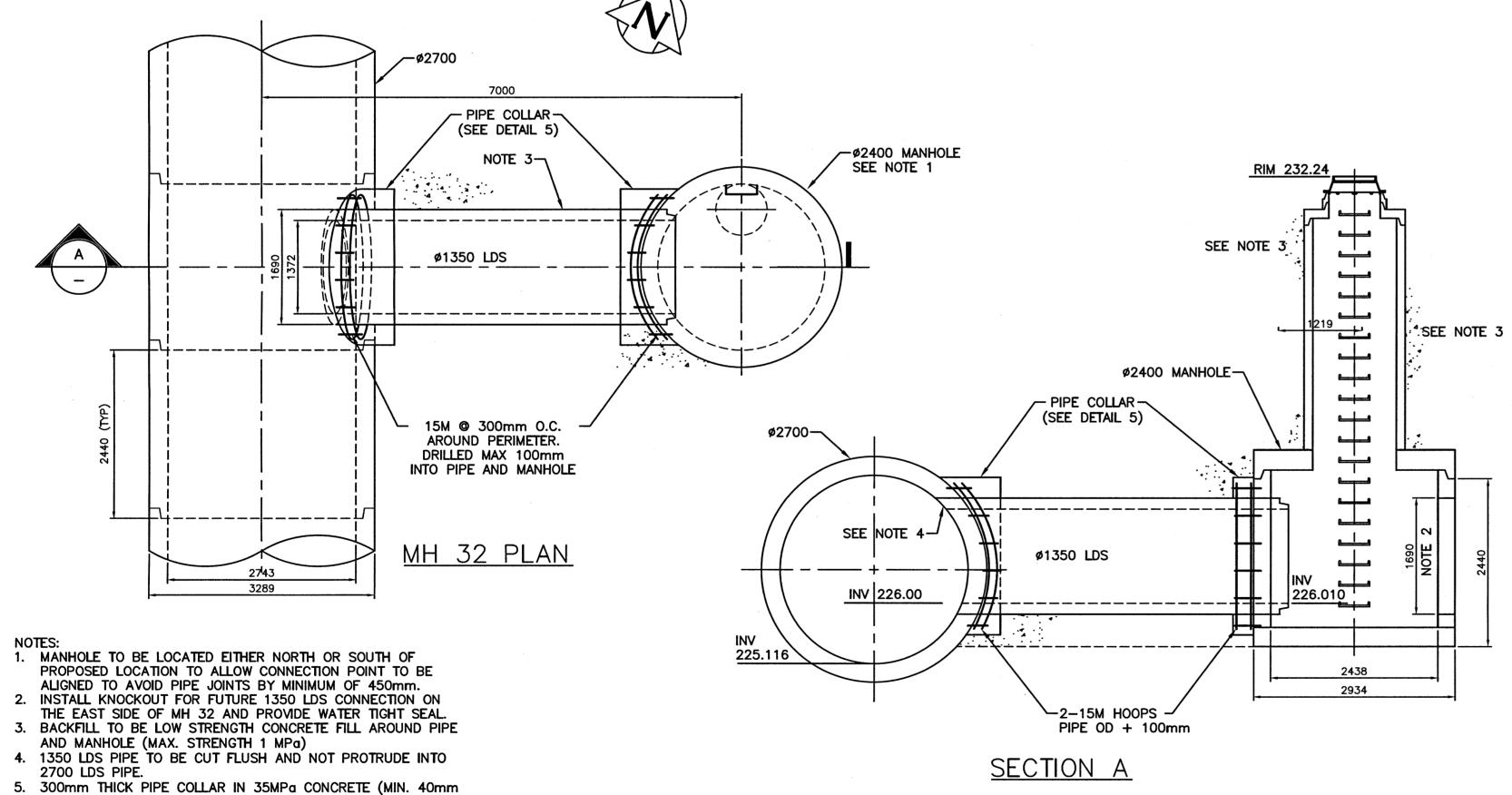
NTS

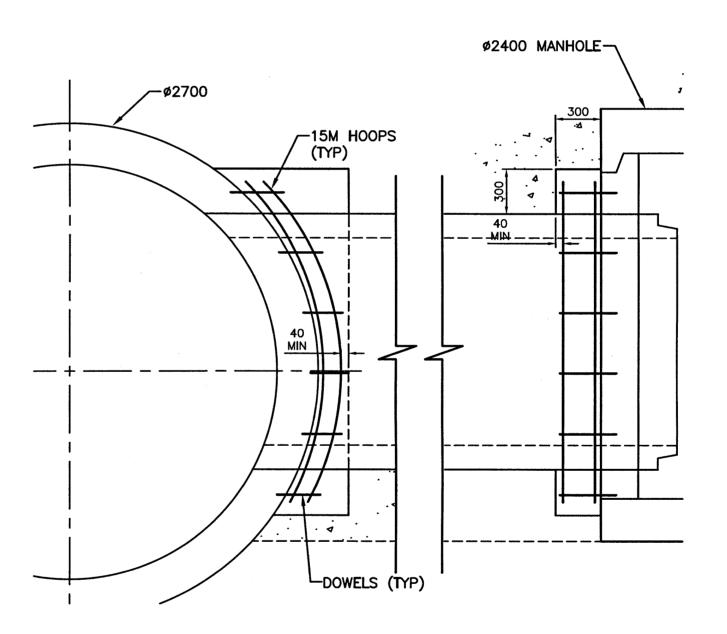


NOTE:
AFTER GROUTING. SEAL GROUT HOLE WITH RECESSED PLUG.
INSTALL PLUG AND FILL REMAINING VOID FLUSH WITH THE INSIDE
OF THE PIPE WITH A MIN. 25mm WITH NON—SHRINK GROUT, IN
ACCORDANCE WITH SPECIFICATIONS.

3 LUBRICATION/ GROUT PORT DETAIL

NTS





15M DOWELS @ 300 O.C.
DRILL AND EPOXY GROUT MIN.
100 INTO PRECAST WALL W/
WITH HILTI HIT—HY 150 MAX/
ADHESIVE.

5 TYPICAL COLLAR DETAILS

Certificate of Authorization
CH2M HILL Canada Ltd.

No. 1441

SPARLING AVENUE CONNECTION (MH 32)

150_WM	WATER MAIN	<u>150 WM</u>		HYDRO		150 WM	WATER MAIN	150 WM	I_{I}
.	HYDRANT	+		M.T.S.		_±_,_X_	HYDRANT, VALVE		1;
8	VALVE	⊗		CONCRETE		300 LDS	LAND DRAINAGE SEWER	300 LDS	1 '
300 LDS	LAND DRAINAGE SEWER	300 LDS		ASPHALT	***************************************	250 WWS	WASTE WATER SEWER	250 WWS] -
250 WWS	WASTE WATER SEWER	250 WWS		SIDEWALK	************	×	CENTRELINE] ते
0	MANHOLE	•		PLANING	7777		NORTH/WEST GUTTER],
	CATCH BASIN			PROPERTY LINE		0	SOUTH/EAST GUTTER] ;
∇	CURB INLET	▼	#	SURVEY BAR	+	♦, ٥	N/W , S/E PL'S		S
I	BEND	Ĭ		GAS];
₩	REDUCER	₩	S	CURB STOP	_	,			
]		3	Ŧ	TEE	보		•] [
EXISTING	LEGEND-PLAN	PROPOSED	EXISTING	LEGEND-PLAN	PROPOSED	EXISTING	LEGEND-PROFILE	PROPOSED]

COVER TO REBAR)

LOCATION APPROVED UNDERGROUND STRUCTURES SUPV. U/G STRUCTURES DATE	B.M ELE	· •				KGS GROUP CONSULTING ENGINEERS		h2 m:	EN
NOTE: LOCATION OF UNDERGROUND STRUCTURES AS SHOWN ARE BASED ON THE BEST INFORMATION AVAILABLE BUT NO GUARANTEE IS GIVEN THAT ALL EXISTING UTILITIES ARE SHOWN OR THAT THE GIVEN LOCATIONS ARE EXACT. CONFIRMATION OF EXISTENCE AND EXACT LOCATION OF ALL SERVICES MUST BE							SDG	CHECKED MD	
						DRAWN BY	JBC	APPROVED 230	_ \
						HOR. SCALE:	AS NOTED	RELEASED FOR CONSTRUCTION:	co
OBTAINED FROM THE INDMIDUAL UTILITIES BEFORE PROCEEDING WITH CONSTRUCTION.	0	ISSUED FOR TEN	NDER (01/2017	JBC	VERTICAL: -		X) 1100	_ 60
BEFORE PROCEEDING WITH CONSTRUCTION.	NO.	REVISIONS		DATE	BY	DATE	-	DATE JANS//+	

ENGINEER'S SEAL SHARP
POFESSION
NOTES
CONSULTANT DRAWING NO.

C-503

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L	
J.	Winnipeg
e Hr	
1 14	PROJECT TITLE

THE CITY OF WINNIPEG WATER AND WASTE DEPARTMENT

PROJECT TITLE
COCKBURN AND CALROSSIE COMBINED
SEWER RELIEF WORKS — CONTRACT 4
SPARLING AVENUE CONNECTION

AND JACKING PIPE DETAILS

	SHEET OF						
	12 OF 12						
COMPUTER FILE NAME							
	C-503.dwg						
	CITY DRAWING NUMBER						