

UPPER LEVEL PLAN
1:150

NOTE:

1. MINIMUM REQUIREMENTS FOR PIPE SUPPORT DESIGN CONCEPT TO BE FOLLOWED BY CONTRACTOR:

FOUL AIR (FOA):

- METAL BELLOWS EXPANSION JOINTS WHERE SHOWN ON DRAWING.
- FIXED PIPE SUPPORT (ANCHOR) WHERE SHOWN ON DRAWING.
- ROLLER PIPE SUPPORTS ON STRAIGHT PIPES BETWEEN TWO FIXED PIPE SUPPORTS SPACED AT 2.5m MAXIMUM.
- AT FIXED PIPE SUPPORT LOCATIONS, PROVIDE HEAVY PIPE CLAMP WITH HANGER ROD, LATERAL AND LONGITUDINAL BRACING ANCHORED TO DOUBLE TEES. PROVIDE CLEVIS TYPE SUPPORT WITH HANGER ROD AT MAXIMUM 2.5M SPACING. PROVIDE LONGITUDINAL AND LATERAL BRACING EITHER SIDE OF BELLOW AND AT 10M SPACING ALONG FOA INSIDE PRIMARY CLARIFIER. SUPPORTS TO BE STAINLESS STEEL 316, ANCHORS 316 SST AND MINIMUM OF 20mm DIAMETER. ALL ANCHORS TO BE INSTALLED IN THE MIDDLE OF DOUBLE/LIN TEE WEB.



NO.	REVISIONS	DATE	DESIGN	CHECK
02	ISSUED FOR ADDENDUM 4 - 976-2016	2017/06/30	B.C.	J.C.
01	ISSUED FOR ADDENDUM 3 - 976-2016	2016/06/21	B.C.	J.C.
00	ISSUED FOR CONSTRUCTION - 976-2016	2017/04/05	D.G.	J.C.

CH2MHILL

SNC-LAVALIN

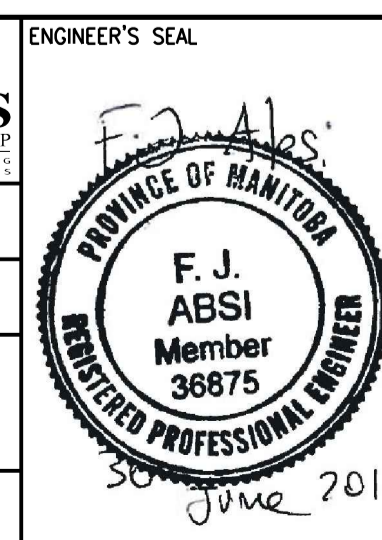
DESIGNED BY: B. EDGAR
 CHECKED BY: F. ABSI

DRAWN BY: B. COOPER
 APPROVED BY: H.T. FREIHAMMER

SCALE: 1:150
 DATE: 2017/04/05

ISSUED FOR CONSTRUCTION BY: J. SHUMKA
 DATE: 2017/04/05

CONSULTANT NO.: 474248



THE CITY OF WINNIPEG
 WATER AND WASTE DEPARTMENT

SOUTH END WATER POLLUTION CONTROL PLANT
 SEWPCC UPGRADING/EXPANSION PROJECT
 PROCESS
 PRIMARY CLARIFIERS
 UPPER LEVEL PLAN

CITY DRAWING NUMBER: 1-0102-PGAD-P002
 SHEET: 001
 REV: 02
 SIZE: A1