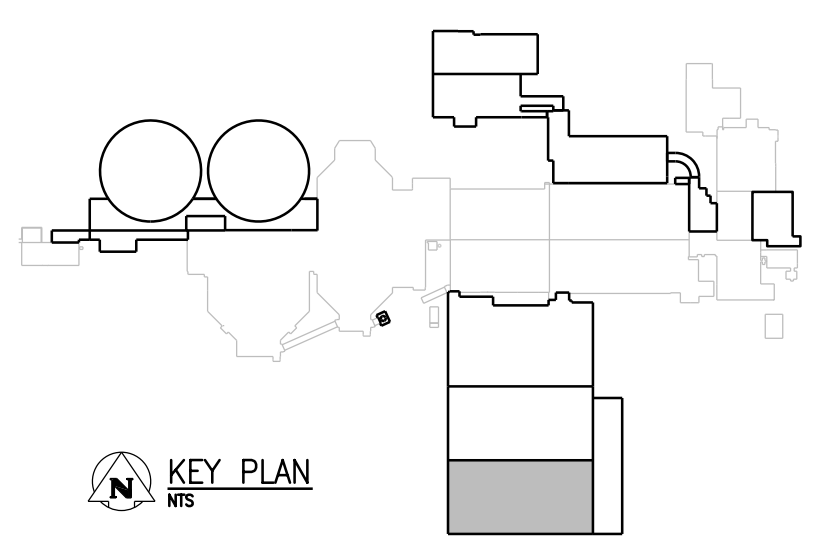


**ROOF PLAN**  
1:100



- NOTES:**
- REFER TO DRAWING 1-0102-SGAD-A001 FOR GENERAL STRUCTURAL NOTES.
  - DESIGN LIVE LOAD FOR TANK AND CHANNEL ROOF IS 4.8kPa.
  - DESIGN LIVE LOAD FOR WALKWAYS IS 4.8kPa.
  - DESIGN DEAD LOAD ALLOWANCE FOR TANK AND CHANNEL ROOFS IS 1.0kPa.
  - DESIGN SNOW LOAD IS 2.15kPa, UNLESS NOTED OTHERWISE. SEE DRAWING FOR SNOW LOAD ACCUMULATION WHERE APPLICABLE.
  - \* DENOTES LOCATION OF TYPE 1 DAVIT CRANE BASE INSERT.  
⊗ DENOTES LOCATION OF TYPE 2 DAVIT CRANE BASE INSERT.



NO.	REVISIONS	DATE	DESIGN	CHECK
01	ISSUED FOR ADD. 2 - B.O. 899-2015	02/2016	C.R.	J.C.
00	ISSUED FOR TENDER - B.O. 899-2015	01/2016	C.R.	J.C.

**CH2MHILL**  
SNC-LAVALIN  
DESIGNED BY: J. THANNICKAL  
CHECKED BY: E. LUI  
DRAWN BY: C. RYNARD  
APPROVED BY: H.T. FREIHAMMER  
SCALE: 1:100  
ISSUED FOR CONSTRUCTION BY: T. TURZAK  
DATE: 2016/01/29  
DATE: 2016/01/29  
CONSULTANT NO.: 474248

ENGINEER'S SEAL  
24/02/2016  
PROVINCE OF MANITOBA  
S.L.E. LUI  
Member 37003  
REGISTERED PROFESSIONAL ENGINEER

THE CITY OF WINNIPEG  
Winnipeg WATER AND WASTE DEPARTMENT  
SOUTH END WATER POLLUTION CONTROL CENTRE  
SEWPPC UPGRADING/EXPANSION PROJECT  
STRUCTURAL  
BIOREACTOR 3  
ROOF PLAN  
CITY DRAWING NUMBER: 1-0102-SGAD-R012  
SHEET: 001  
REV: 01  
SIZE: A1