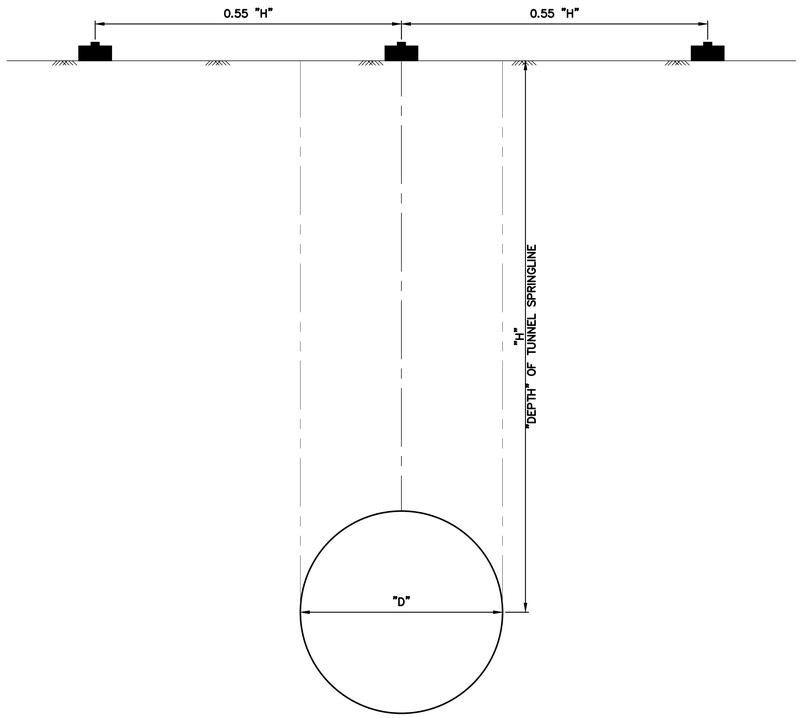
SURFACE MONITORING POINT RESPONSE LEVELS (TOTAL SETTLEMENT)

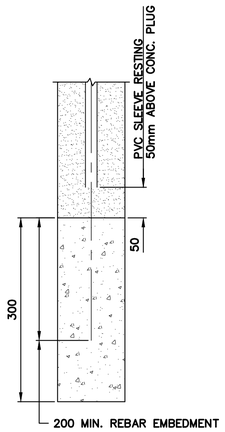
DESCRIPTION	STATION	NORTHING	EASTING	REVIEW LEVEL (mm)	ALERT LEVEL (mm)
SMP 1	1+019.94	5520382.314	633423.825	8	11
SMP 2	1+035.74	5520372.211	633435.984	8	11
SMP 3	1+423.99	5520495.309	633781.565	8	11
SMP 4	1+454.31	5520525.198	633786.686	8	11

INSTRUMENT MONITORING SCHEDULE

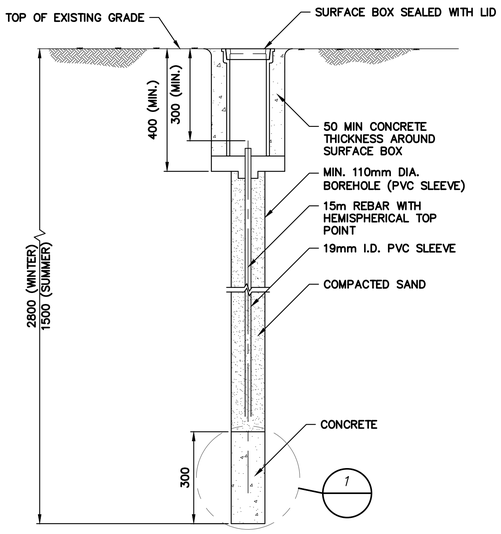
DESCRIPTION	MONITORING SCHEDULE
SMP	DAILY WHEN ADVANCING TUNNEL FACE IS 20m AWAY TO REACH THE INSTRUMENT LOCATION AND 30m PAST THE UTILITY
	1 READING 2 WEEKS AFTER THE TUNNEL PASSES INSTRUMENT LOCATION



DETAIL – TYPICAL LAYOUT OF SMP ARRAY



1 DETAIL
Scale 1:5



DETAIL – SURFACE MONITORING POINT (SMP)
Scale 1:10

METRIC
WHOLE NUMBERS INDICATE MILLIMETRES
DECIMALIZED NUMBERS INDICATE METRES

0.0 100 200 300 mm — 1:5
0.0 250 500 mm — 1:10
0.0 500 1000 mm — 1:20
0.0 500 1000 1500 mm — 1:25
0.0 1000 2000 mm — 1:40
0.0 1000 2000 3000 mm — 1:50
0.0 5.0 10.0 15.0 m — 1:250
0.0 10.0 20.0 30.0 m — 1:500
0.0 25.0 50.0 m — 1:750

FOR INDEX SEE G-1001

ENGINEERS GEOSCIENTISTS MANITOBA
Certificate of Authorization
AECOM Canada ULC
No. 4671

LOCATION APPROVED
UNDERGROUND STRUCTURES

SUPV. U/G STRUCTURES COMMITTEE — DATE

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 OBTAINED FROM THE INDIVIDUAL UTILITIES BEFORE PROCEEDING WITH CONSTRUCTION.

B.M. Z63–11 ELEV. 232.525m — Bishop Grandin Blvd. & the E. bank of the Red River, Tblt. on top of N.W. Cor. of gate chamber which is closest to the most Sly. bridge of two bridges over Red River on Bishop Grandin Blvd.

CONSTRUCTION COMPLETION DATE: YYYY MM DD

NO.	REVISIONS	DATE	BY
0	ISSUED FOR TENDER	25/05/14	ADL

METRIC
WHOLE NUMBERS INDICATE MILLIMETRES
DECIMALIZED NUMBERS INDICATE METRES

AECOM

DESIGNED BY	MPG	CHECKED BY	JAT
DRAWN BY	ADL	APPROVED BY	MGM
SCALE: HORIZONTAL	1:25	RELEASED FOR CONSTRUCTION	R. LUCKY
VERTICAL	–		
DATE	2025 05 13	DATE	25/05/14

ENGINEER'S SEAL
PROVINCE OF MANITOBA — M.P.A. GAUDREAU — Member 32167 — 2025-05-14 — REGISTERED PROFESSIONAL ENGINEER

CONSULTANT DRAWING NUMBER
C–5001

Winnipeg

THE CITY OF WINNIPEG
WATER AND WASTE DEPARTMENT
ENGINEERING DIVISION

REPLACEMENT OF THE
FORT GARRY ST VITAL SIPHON

STANDARD DETAILS
MONITORING AND INSTRUMENTATION

SHEET 15 OF 32
CITY DRAWING NUMBER
C–5001

PLOT DATE: 2025 05 13
Tender No: 1010–2024B
CONTRACT NUMBER:
FILE PATH: C:\Users\leippia\DC\ACCDocs\AECOM\60728226–Replc–of–FGSV–Siphon\Project Files\900 Design Collaboration\20 Detailed Design\C\SHT\
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