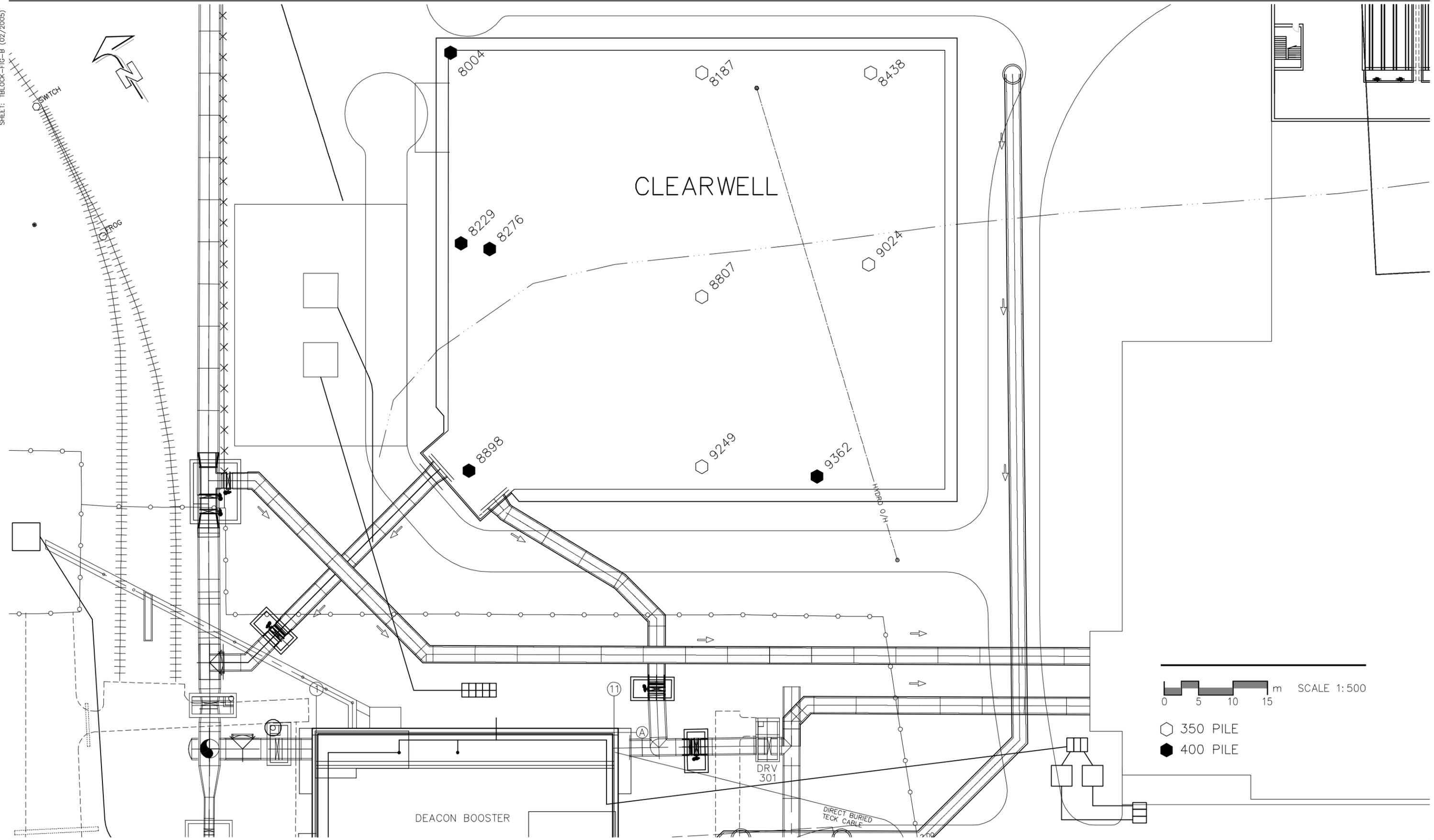


# **Winnipeg Water Treatment Program**

## **Test Pile Driving Records**

### **Set 1**



## Test Pile Driving Summary

Project:	City of Winnipeg Water Treatment Plant	Client:	City of Winnipeg
Contractor:	Subterranean (Manitoba) Ltd.	Project Number:	3398-055-00
Location:	Proposed Clearwell	Driving Date:	March 2, 2005
Driving Hammer:	Link Belt 520	Personnel:	Nelson Ferreira, M.Sc., EIT
Follower	8.2m	Pile Length:	19.0m

Pile #	Northing (m)	Easting (m)	Ground Elevation (m)	Top of Pile (m)	Tip Elevation (m)	Pile Diameter (mm)	Refusal Criteria*	Final Set (mm)
9362	5524079.56	647811.39	237.20	233.55	214.55	400	15	22/19/13
8276	5524132.64	647788.49	236.95	233.65	214.65	400	15	19/13/13
8004	5524159.76	647798.73	237.02	235.04	216.04	400	15	25/20/20
8229	5524135.53	647785.42	236.90	233.95	214.95	400	15	25/19/19
8898	5524106.99	64776897	236.13	234.50	215.50	400	15	15/15/15
9249	5524089.58	647797.95	236.54	234.59	215.59	350	10	25/25/10
9024	5524101.65	647833.99	238.47	234.49	215.49	350	10	19/19/13
8807	5524110.47	647810.96	237.57	233.91	214.91	350	10	20/10/10
8187	5524137.99	647828.13	238.20	234.58	215.58	350	10	23/19/10
8438	5524125.03	647848.92	239.07	234.39	215.39	350	10	8/6/0

\*Refusal criteria increased 25% due to Follower.



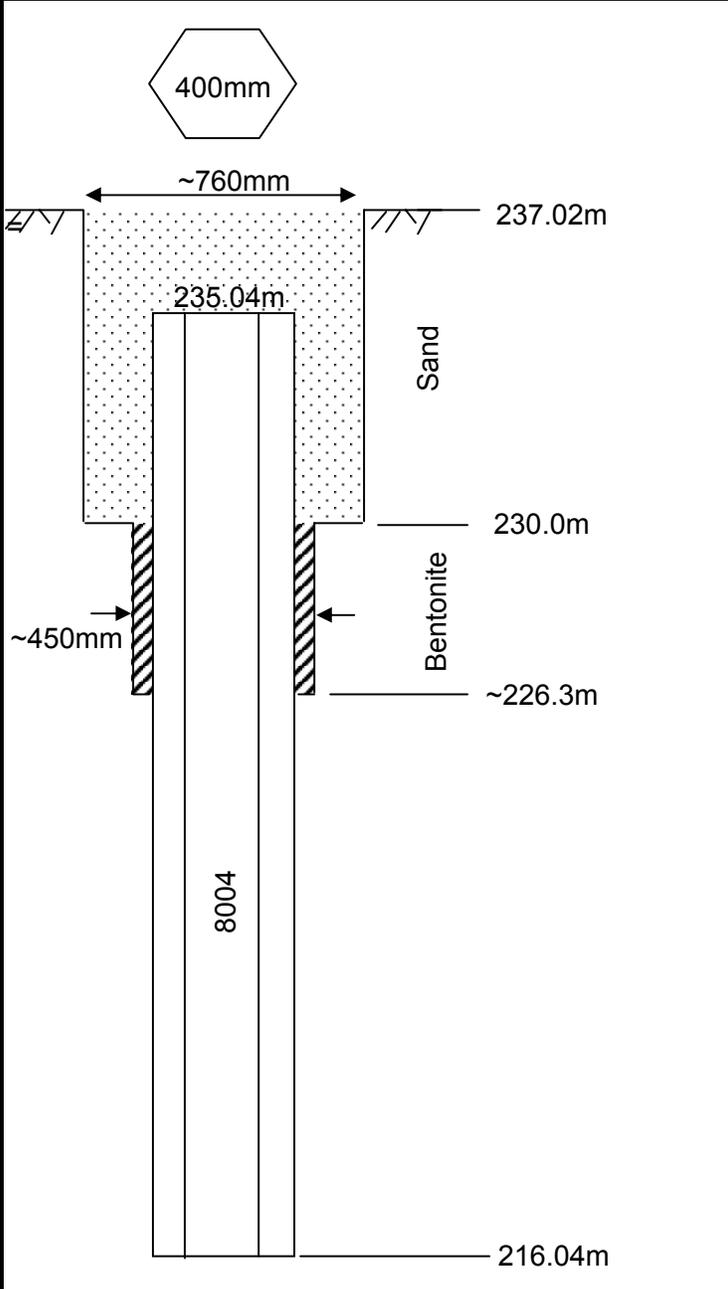






# Pile Driving Record

Project: Water Treatment Plant Test Pile Prgm    Client: City of Winnipeg    Location: ClearWell  
 Contractor: Subterranean Ltd.    Project No: 3398-055-00    Personnel: Nelson Ferreira, M.Sc., EIT



**Pile Information**

Pile Number: 8004  
 Pile Type: Precast  
 Pile Size: 400mm  
 Cast Date: 14-Feb-05  
 Supplier: Con-Force  
 Supplier #:

Driving Date: 2-Mar-05  
 Hammer Type: Link Belt 520  
 Follower Length: 8.2m  
 Total Length: 19.0m

Alignment: Vertical  
 Ground Elevation: 237.02m  
 Top of Pile: 235.04m  
 Tip Elevation: 216.04m

Refusal Criteria: 15 blows/25mm  
 Follower Increase: 25%

Notes:

Continuous Penetration	1	2	3	4	5	6	7	8
blows per 0.3 meters								
Details for Final Set	1	2	3	4	5	6	7	
Penetration for 15 blows (mm)	50	40	25	25	25	20	20	

Does Pile Meet Specifications?     Y     N    Per: *Nelson Ferreira*  
 Nelson Ferreira, M.Sc., EIT













