

PART 1 - GENERAL

1.1 RELATED  
SECTIONS

- .1 Section 31 09 16.28 - Pile Tests.
- .2 Section 31 63 33 - Drilled Micropiles.

1.2 REFERENCES

- .1 "Geotechnical Investigation Report, Fifty Bed Housing Unit, Pittsburgh Institution, Joyceville, Ontario" September 21, 2011, prepared by DBA Engineering Ltd.
  - .1 The report is available for review at the offices of the consultant, NORR Ltd. at 20 Gore Street, Suite 101, Kingston, Ontario, or at the offices of the Departmental Representative.

1.3 WASTE  
MANAGEMENT AND  
DISPOSAL

- .1 Separate and recycle waste materials in accordance with Section 01 74 20.
- .2 Collect and separate plastic, paper packaging, corrugated cardboard in accordance with Waste Management Plan.
- .3 Divert unused, or cut off concrete materials from landfill to local facility as approved by Departmental Representative.

1.4 EXISTING  
CONDITIONS

- .1 Sub-surface investigation report is available for inspection at the Departmental Representative's office, and at the consultant's office.
- .2 Notify Departmental Representative in writing if subsurface conditions at site differ from those indicated and await further instructions from Departmental Representative.

1.5 SCHEDULING

- .1 Submit schedule of planned sequence of pile installation to Departmental Representative for review, not less than two weeks prior to commencement of work.

PART 2 - PRODUCTS

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| <u>2.1 MATERIALS</u> | .1 | Material requirements for piles are specified in Section 31 63 33. |
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PART 3 - EXECUTION

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| <u>3.1 PREPARATION</u>          | .1 | Ensure that ground conditions at pile locations are adequate to support pile installation operation and load testing operation. Make provision for access and support of piling equipment during performance of work. |
| <u>3.2 DESIGN LOAD CAPACITY</u> | .1 | Allowable design load capacity of pile at load is as indicated.   |
|                                 | .2 | Installation of each pile will be subject to review by Departmental Representative.   |
| <u>3.3 DRIVING TOLERANCES</u>   | .1 | Pile heads to be within distance of locations as indicated.   |
|                                 | .2 | Piles not to be more than indicated percentage of length out of vertical alignment.   |
| <u>3.4 OBSTRUCTIONS</u>         | .1 | Where obstruction is encountered that causes sudden unexpected change in penetration resistance or deviation from specified tolerances proceed as directed by Departmental Representative.                            |
| <u>3.5 LOAD TESTING</u>         | .1 | In accordance with Section 31 09 16.28.   |
| <u>3.6 REPAIR/ RESTORATION</u>  | .1 | Pull out rejected piles and replace with new piles.   |
|                                 | .2 | Remove rejected pile and replace with a new and if necessary a longer pile.   |
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3.6 REPAIR/  
RESTORATION

- .4 Leave rejected pile in place and cut off, as directed by Departmental Representative.
- .5 Leave rejected pile in place, place adjacent pile and modify pile cap as directed by Departmental Representative.
- .6 No extra compensation will be made for removing and replacing or other work made necessary through rejection of defective piles.

3.7 PROTECTION

- .1 Protect adjacent structures, services and work of other sections from hazards due to pile installation operations.
- .2 Arrange sequencing of pile installation operations and methods to avoid damages to adjacent structures. When damages occur, remedy damaged items to restore to original or better condition at own expense.