



- INSTALLATION:**
Determine placement of bench. (MUST BE ANCHORED)
1. Set in place with proper equipment such as a forklift or crane. See Fig. 1.
 2. Mark hole locations.
 3. Drill holes according to Fig. 2 and Fig. 3.
 4. Lift unit and install M16 x 140mm bolts. Thread in until tight.
 5. Fill holes with chemical anchoring adhesive
 6. Lower unit over holes.
 7. Unit can be installed over pavers.

- Included components:
• (2) M16 x 140mm bolts for anchoring.
• Unit must be anchored.

- Tools required:
• Proper equipment to move 375lbs.
• Wood supports or straps if using crane or forklift to move unit
• Wrench, 24mm
• Chemical anchoring adhesive
• Hammer drill with $\phi 1\frac{1}{2}$ " [40mm] dia masonry drill bit

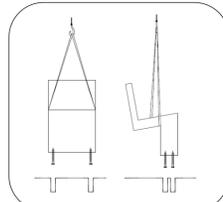


Fig. 1 - Crane install

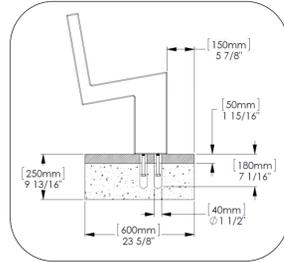


Fig. 2 - Side elevation of footing detail

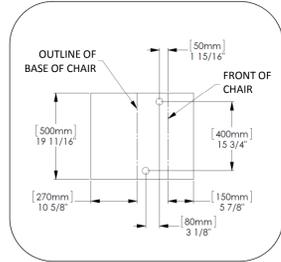


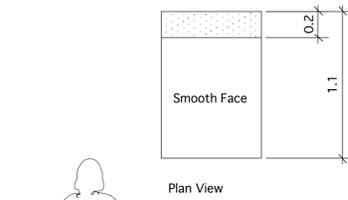
Fig. 3 - Plan view of footing detail

Date: September 13, 2012

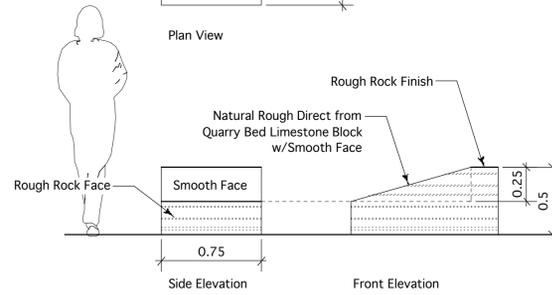
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1 SILLA CHAIR INSTALLTION
L5

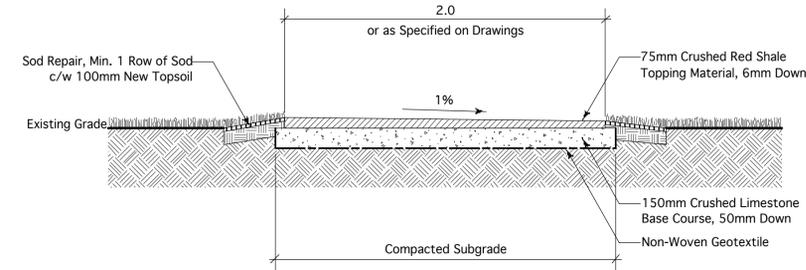


Plan View



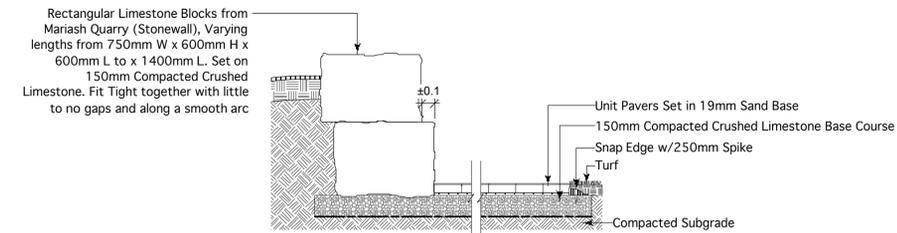
Front Elevation

2 MEMORIAL LIMESTONE BLOCK
L5 Scale: 1:25



3 CRUSHED RED SHALE PATHWAY
L5 Scale: 1:25

Note:
To reduce excavation on heavily treed site, reduce excavation to 150mm Depth Base Course only.



4 PAVING STONE PATHWAY & LIMESTONE BLOCK RETAINING WALL
L5 Scale: 1:25

GENERAL NOTES

1. PROVIDE 10 MIL POLYETHYLENE WRAPPED SONOTUBE PLASTIC TUBE, GREASED COMPLETELY ON INSIDE FOR TOP 1800 mm 6'-0" OF PILES.

CAST-IN-PLACE CONCRETE

I CONCRETE

1. ALL CONCRETE IS TO BE MANUFACTURED AND INSTALLED IN ACCORDANCE WITH THE LATEST EDITION OF CAN/CSA-A23.1-09 "CONCRETE MATERIALS AND METHODS OF CONCRETE CONSTRUCTION" AND CAN/CSA-A23.2-09 "METHOD OF TEST FOR CONCRETE".
2. CONCRETE STRENGTHS AT 28 DAYS SHALL BE AS FOLLOWS UNLESS NOTED OTHERWISE ON THE DRAWINGS.

PILES: 32 MPa MIN. AT 56 DAYS

CLASS OF EXPOSURE: S-2
ENTRAINED AIR/CATEGORY: 2 (4% TO 7%)
CEMENT TYPE: HS
AGGREGATE: MAX. 20 mm
CURING TYPE: TYPE 1 - BASIC
SLUMP: MIN. 120 mm

EXTERIOR SLABS: 25 MPa MIN. AT 28 DAYS

CLASS OF EXPOSURE: F-2
ENTRAINED AIR/CATEGORY2: (4% TO 7%) AGGREGATE MAX. 20 mm
CURING TYPE: TYPE 1 - BASIC

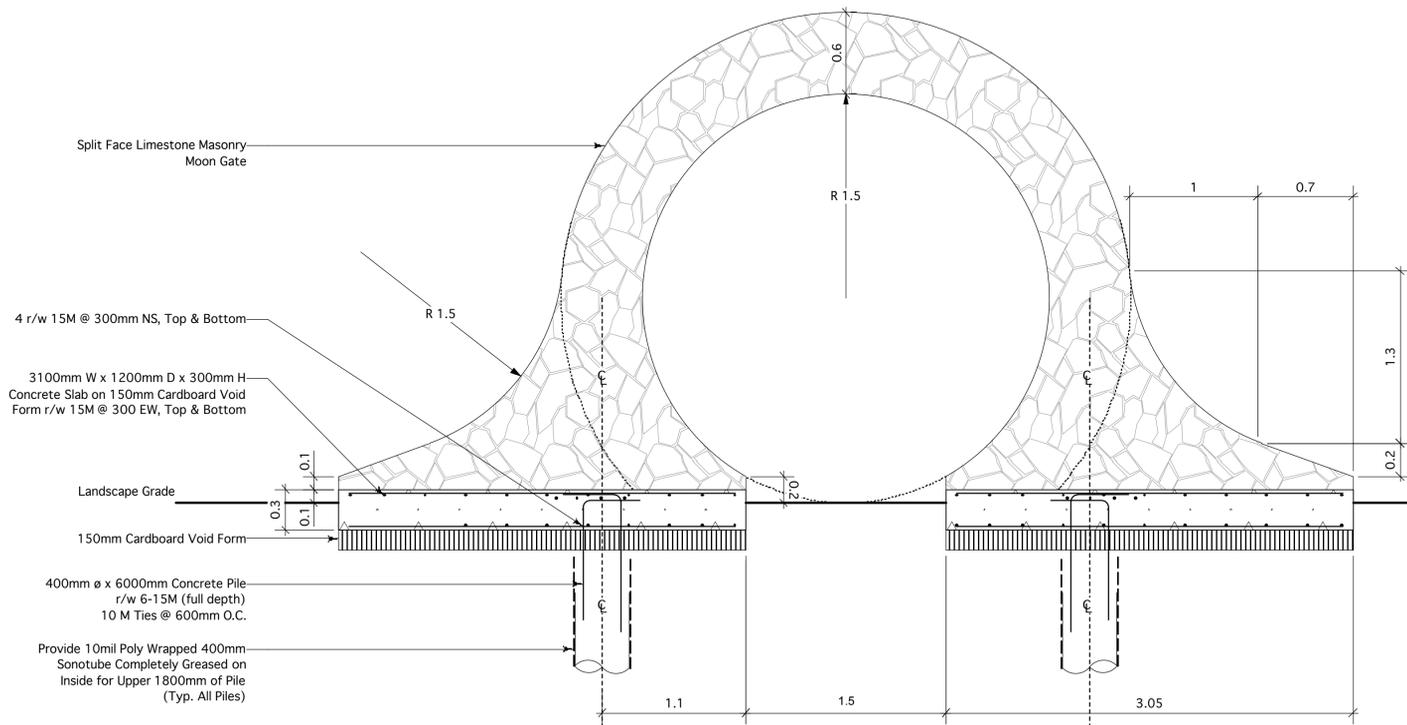
3. AIR ENTRAINING ADMIXTURES SHALL CONFORM TO THE REQUIREMENTS OF ASTM C260/C260M-10a "STANDARD SPECIFICATION FOR AIR ENTRAINING ADMIXTURES FOR CONCRETE". SUPERPLASTICIZING ADMIXTURES SHALL CONFORM TO ASTM C494/C494M "STANDARD SPECIFICATION FOR CHEMICAL ADMIXTURES FOR CONCRETE" OR ASTM C1017/C1017M "STANDARD SPECIFICATION FOR CHEMICAL ADMIXTURES FOR USE IN PRODUCING FLOWING CONCRETE" WHEN FLOWING CONCRETE IS APPLICABLE. AIR ENTRAINING ADMIXTURES TO HAVE A DURABILITY FACTOR GREATER THAN 75, WHEN TESTED TO ASTM STANDARDS C666/C666M PROCEDURE A. SPACING FACTOR FOR ANY AIR ENTRAINING ADMIXTURE MUST BE 0.17mm OR LESS WHEN TESTED IN ACCORDANCE WITH ASTM C457 "STANDARD TEST METHOD FOR MICROSCOPICAL DETERMINATION OF PARAMETERS OF THE AIR-VOID SYSTEM IN HARDENED CONCRETE".

II REINFORCING STEEL

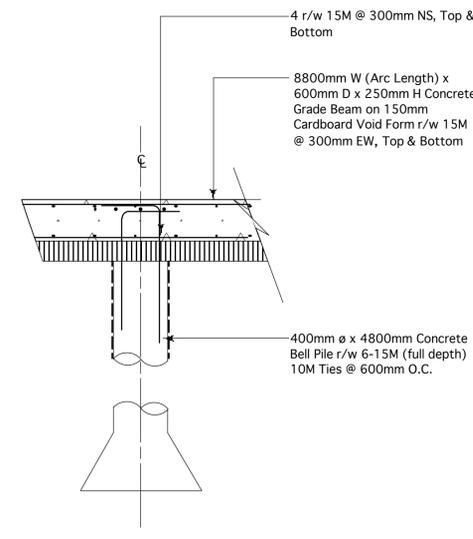
1. ALL REINFORCING STEEL TO BE CAN/CSA-G30.18M GRADE 400R DEFORMED BARS EXCEPT COLUMN TIES AND BEAM STIRRUPS WHICH SHALL BE GRADE 400W STEEL. ALL REINFORCING IS TO BE DETAILED IN ACCORDANCE WITH THE LATEST EDITION OF THE REINFORCING STEEL INSTITUTE OF CANADA - MANUAL OF STANDARD PRACTICE, EXCEPT OTHERWISE NOTED.

III FORMWORK

1. CARDBOARD VOIDFORM WITH A MIN. DEPTH OF 6 IN. SHALL BE USED AS THE BOTTOM FORM FOR STRUCTURAL SLABS AT GRADE, GRADE BEAMS, AND WALLS IN CONTACT WITH SOIL.
2. ACCESSORIES SUCH AS HI-CHAIRS, SPACERS, ETC. SHALL BE SUPPORTED BY PADS OF PLYWOOD OR TEMPERED HARDBOARD TO PREVENT PUNCTURING THE VOIDFORM.
3. ALL CONSTRUCTION JOINT KEYS ARE TO BE A MINIMUM OF 1 1/2 IN. DEEP.



5 MOON GATE
L5 Scale: 1:25



6 CONCRETE GRADE BEAM & BELL PILE FOR CHAIRS
L5 Scale: 1:25



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This drawing shall not be used for building purposes until countersigned by the Landscape Architect.
The contractor shall check all dimensions and other data on site and report any discrepancies to the Landscape Architect.
Figured dimensions to be taken in preference to scaled dimensions.
If in doubt please ask.

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.

DO NOT SCALE - DRAWING PLOT MAY NOT BE AT 100%



RELEASED FOR CONSTRUCTION	DATE: XX Month, 20XX
8	
7	
6	
5	
4	
3	
2	
1	
NO. REVISION	DATE BY
CLIENT	

CITY OF WINNIPEG

PROJECT
ARDEN SEVEN COMMEMORATION
JULES MAGER PARK
River Rd and St Michael Rd

DRAWN BY: EW DATE: SEPTEMBER 6, 2013
APPROVED BY: DW SCALE: AS SHOWN

DRAWING TITLE

DETAILS

PROJECT NO.	SHEET NO.	REVISION NO.
1309	L5	0