MASONRY

1. Concrete blocks to conform to CSA A165.1-04.

2. Masonry walls to be built with type "S" mortar having a minimum strength of 13 MPa @ 28 days. Mortar to be in accordance CSA A179-04.

3. Use Dur-O-Wall (or equal) spaced vertically at 400 o/c.

4. Cold weather construction of masonry shall conform to the 2010 National Building Code of Canada, with adequate preheating of materials, hoarding and heating during construction and thereafter as specified. THE "TORCHING TECHNIQUE" WILL NOT BE PERMITTED UNDER ANY CIRCUMSTANCES.

5. Masonry contractor shall be responsible for temporary bracing of all masonry components until all related structural framing has been erected and completely installed.

6. Provide expansion joints at maximum of 6 metres o/c unless notes. Submit drawing with locations of expansion joints for review prior to construction.

7. Provide continuous bond beams with 2-15M bars bottom in concrete fill at top of all exterior walls, bearing walls or as indicated on drawings.

8. Inspection holes shall be left at the base of concrete filled cores.

9. Masonry cores shall be filled in lifts not exceeding 3m.

10. Concrete blocks to be min. H/15/A/M unless noted.

11. Ensure masonry cores filled with concrete at expansion anchor locations.

12. All cores of elevator shaft to be filled solid with concrete.

13. Typical masonry lintels unless noted on drawings:
spans up to 1200: 200 U-block, 2-15M cont. bottom
spans up to 2000: 400 U-block, 2-15M cont. bottom
Provide minimum 200 bearing u/n at each end.

14. Brick ties to be 'FERO' block shear connectors spaced as follows:
Horizontal: 450 o/c
Vertical: 1st row @ 200 from top & bottom; 2nd row @ 400 from top & bottom; Balance @ 600 o/c

15. Provide minimum 100 x 100 x 8 angles for brick or stone support over recessed units in masonry walls for spans up to 1220mm. For larger spans refer to drawings.

16. All bonding coursing to be running bond unless noted otherwise.

OPEN WEB STEEL JOISTS

1. Joists which are resistance welded shall conform to CAN/CSA W55.3-08.

2. Steel joists design shall allow for all snow build-ups prescribed by the 2010 edition of the National Building Code of Canada.

3. Bridging shall conform to the latest code requirements.

4. Bridging to be connected to all beams and walls.

5. Joist supplier to design joists to support mechanical equipment all weights & locations to be confirmed by Mechanical Subcontractor.

6. Where point loads on joists do not occur at panel points, strengthen chords as required. Indicate all point load locations on shop drawings.

7. Camber all joists for specified dead load plus half of the specified live load (min. 12mm) according to CSA-S16 unless noted otherwise.

8. Design and supply joist seats and bearing plates to suit elevations and skews indicated on drawings.

9. The steel joist supplier shall submit drawings bearing the seal of an engineer, registered in the Province of Manitoba for review of:
- fabrication drawings of each truss type c/w member sizes, dimensions, and design information.
- an erection drawing, showing the location of all truss and other information required by the contractor for the proper installation of the trusses.

STEEL DECK & LIGHT GAUGE METAL FRAMING

1. Steel deck and light gauge metal framing to be designed in accordance with the latest issue of CSA 136-07 and CSA 136.1-07 to support the loads indicated on the drawings.

2. Steel deck Work to be performed in accordance with the latest edition of Canadian Sheet Steel Building Institute Standards for Roof and Floor Decks.

3. Steel deck to be manufactured from ASTM A525 Grade A structural quality sheet steel; hot-dip galvanized to ZF75 wiped coat designation.

4. Submit shop drawings sealed by a Professional Engineer registered in the Province of Manitoba, indicating decking plan, profiles, supports and design loads.

5. Mechanically fasten side laps at 300 o/c.

6. Fasten deck to support members with 19mm fusion welds at 300 o/c.

7. Reinforce deck openings up to 450 square with L55 x 55 x 5 each side. Extend reinforcing angles a minimum of two flutes beyond opening each side.

8. All rooftop equipment shop drawings shall be submitted for review prior to commitment of steel deck shop drawing review. Indicate equipment weight, overall dimensions, and connection requirements on shop drawings.

MISCELLANEOUS METAL

1. Refer to architectural drawings for miscellaneous metal details.

2. All steel shall conform to CSA G40.21-04

3. Welded rebar anchors to be grade 300 weldable.

4. All exposed miscellaneous metal to be reviewed for architectural appearance as per AISC. Specification for Architecturally Exposed Structural Steel.

STRUCTURAL LIGHT GAUGE STEEL FRAMING

1. Supply and install LG (light gauge) steel framing where indicated on structural and architectural drawings.

2. Framing members to be cold-formed steel to ASTM A446 grade D and hot dipped galvanized to ASTM A525 G60. Minimum 20 ga. (0.033).

3. Size of framing member to be sufficient to carry weight of finishing materials (minimum 10psf) plus a horizontal wind load as per external cladding notes or a vertical snow load as per plans.

4. Provide lapped connections and fasten with minimum 3- #12 TEK screws.

5. Support horizontal and vertical members at max. 4'-0" o/c. use clip angles to structural steel framing, concrete, or masonry. Secure with 3/8Ø bolt or other approved fastener. Wire hangers are permitted where adequate lateral bracing is used.

6. Submit 4 sets of shop drawings to the Contract Administrator and obtain approval prior to fabrication. Show all sizes, connection details, and material specifications. Work and design to conform to CAN S136. External cladding.

7. Maximum deflection for the above wind loads not to exceed L/360 (L-720 when used as backup for brick veneer). Minimum 18 gauge for all studs in veneer back walls.

8. Stone pilaster framing to be self-supporting and braced to withstand wind and seismic forces.

9. Minimum 2 screws required per connection.

10. Steel studs to have bridging channel at 4'-0" o/c maximum.

11. No coring or cutting of steel studs unless approved by Contract Administrator.

12. Use no. 10-16 metal screws for non-load bearing stud connections.

13. Erection Tolerances:
Plumb: 1/4" Spacing: 1/8" Stud to Web Gap: 1/4"

14. Double stud at side for all interior openings up to 4'-0" width.

15. Specifications for stud or track size and thickness:
600 S 162 - 54
(a) (b) (c) (d)

(a) Member depth in 1/100ths inches
Thus 600 means 600/100 = 6" (152mm)
(b) Style: S = Stud or joist sections
T = Track sections
U = Channel sections
F = Furring channel sections
(c) Flange width in 1/100ths inches
Thus 162 means 162/100 = 1.62" (41.28mm)
(d) Designations thickness in 1/1000ths inches
Thus 54 means 54/1000 = 0.554" (1.367mm)

STRUCTURAL WOOD

1. All wood framing shall be in accordance with the latest edition of CSA 086-09.

2. All lumber shall conform to 2014 N.L.G.A. standard grading rules for Canadian lumber.

3. All lumber exposed to weathering shall be pressure treated unless noted.

4. Wall studs to be minimum #2 Spruce-Pine-Fir or better U/N on drawings, kiln-dried to a maximum moisture content of 19%.

5. Joists, lintels, and built-up beams to be minimum #2 Spruce-Pine-Fir or better U/N on drawings, properly seasoned to a maximum moisture content of 19%.

6. The carpentry contractor in conjunction with the Contractor shall be responsible for supplying and installing all temporary and permanent bracing required to provide the stability of the structure.

7. All OSB/Plywood sheathing to be exterior grade. All sheathing shall conform to CAN/CSA 0325-07 "Construction Sheathing"

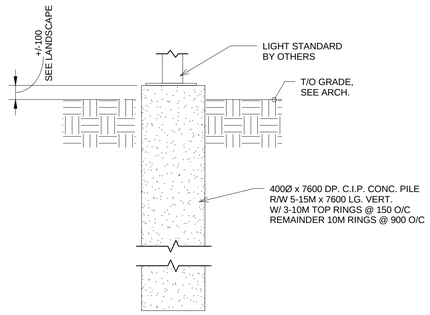
8. The Floor and/or Roof system supplier shall be responsible for the design and supply of all floor and/or roof systems, gable end trusses, bridging and hardware required for the connections.

9. The Floor and/or Roof system supplier shall submit drawings bearing the seal of an engineer, registered in the Province of Manitoba for review of:
- fabrication drawings of each wood floor and/or roof system type c/w member sizes, dimensions, and design information.
- an erection drawing, showing the location of all wood floor systems and/or roof systems and other information required by the contractor for the proper installation of the floor and/or roof system.

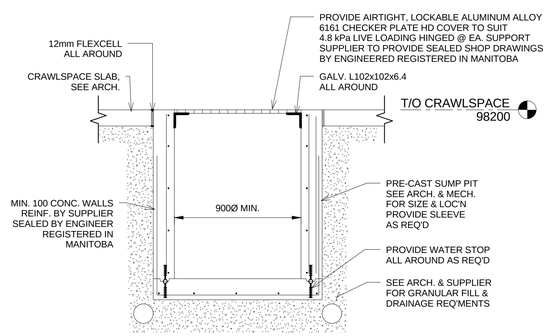
10. Wood floor system and/or roof system layouts indicated on drawings is for diagrammatic purposes only. Actual floor and/or roof system layouts to be determined by supplier.

11. No site modifications to be made to floor and/or roof members without prior approval of supplier and Contract Administrator.

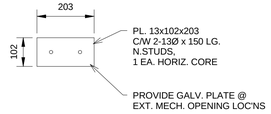
12. All repairs made to damaged floor and/or roof members to be approved by supplier and Contract Administrator.



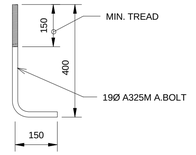
1 S-01 Typ. Light Standard Foundation
1 : 20



2 S-01 Typ. Sump Pit Detail
1 : 20



3 S-01 Typ. OWSJ Bearing Plate
1 : 10



4 S-01 Typ. Anchor Bolt Detail
1 : 10

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issue / rev.

#	date	issued notes
0	2016.07.15	ISSUED FOR CONSTRUCTION

professional seals

PROVINCE OF MANITOBA
A.D. WOLFROM
2016-07-28
REGISTERED ENGINEER

project information

SEVEN OAKS POOL
RENOVATION &
ADDITION

444 ADSUM DRIVE
WINNIPEG, MB
CANADA

client

CITY OF WINNIPEG
4TH FLOOR - 85 KING ST.
WINNIPEG, MB

SEVEN OAKS POOL
RENOVATION & ADDITION
BID OPPORTUNITY NO. 645-2016

drawing information

General Notes & Typ. Details

drawn by: M.B./AVP
approved by: FDW

scale: As indicated
date issued: 2016.07.12
proj. #: W14432
rev. #: 0

S-01