



FOUNDATION PLAN

1/8"=1'-0"

GENERAL

- These notes are to be read in conjunction with the specifications.
- This building has been designed in accordance with the 2006 edition of the Manitoba Building Code.
- The contractor shall be responsible for the design and installation of all necessary shoring, bracing and formwork. Formwork for new construction shall be bridged over existing services. Procedure must be approved by the Contract Administrator.
- Any unsound structural conditions observed or created during construction are to be reported to Contract Administrator immediately.
- Coordinate size and location of all openings in structural members with trades involved. All openings not indicated on structural drawings to be approved by Contract Administrator.
- Confirm the location of all sub-grade services prior to commencing site work.
- Verify all dimensions and elevations with architectural drawings prior to construction. Any discrepancies to be reported to Contract Administrator immediately. Do not scale drawings.
- Do not backfill against structure until main floor is in place.
- Confirm all existing conditions prior to construction. Any discrepancies or conflicts to be reported to Contract Administrator immediately.

REINFORCING

- All bars to conform to CSA G30.18. 15M bars and larger to be grade 400 10M bars and supporting rods to be grade 300 or better
- All steel to be detailed in accordance with the current ACI Detailing Manual.
- Minimum clear cover to reinforcing:
 - 3/4" structural slabs
 - 1" interior face of walls
 - 1 1/2" face of grade beams
 - 2" exterior face of walls, bottom of grade beams & walls
 - 3" pile caps
 - 3" bottom of footings
- All reinforcing shall be held in place with proper accessories.
- In concrete beams, bend horizontal reinforcing 24" around corners, or use extra corner bars 36" x 36".
- Top steel in beams shall be lapped at centre span, bottom steel shall be lapped at support.
- All reinforcing steel shall be cleaned of all dirt, grease and other deleterious materials prior to placing.
- All reinforcing shall be new billet deformed bars.
- Minimum reinforcing for equipment bases 10M @ 12" o/c E.W.
- Reinforcing steel supplier to confer with contractor as to desired construction joint locations and supply dowels and bar lengths to accommodate these joints.
- Reinforcing steel supplier shall submit shop drawings for review of fabrication, sizes, dimensions, placement and splice locations.

CONCRETE SLAB SCHEDULE:

SL-1

5" THICK CONCRETE SLAB
R/w 10M @ 16" O/C B/W
10M DOWELS @ 12" O/C
INTO GRADE BEAMS @ DOOR LOCATIONS

SCOPE OF WORK

- THE INTENT OF THIS PROJECT IS TO REMOVE THE EXISTING ASPHALT PAVING WITHIN THE FOOTPRINT OF THE BUILDING AND INSTALL NEW FOUNDATIONS AND FLOOR SLAB AS DETAILED ON THE DRAWINGS.
- CONTRACTOR SHALL CONTACT THE CONTRACT ADMINISTRATOR WHEN THE EXISTING FOUNDATIONS ARE EXPOSED AND PREPARED FOR NEW WORK.

CONCRETE

- Concrete work shall be in accordance with the latest edition of CAN 3-A23.1 for "Concrete Materials and Methods of Concrete Construction" including cold weather requirements when the temperature falls below 5°C.
- Provide one set of concrete test cylinders in accordance with the latest edition of CAN 3-A23.1 for every 50 m³ of concrete placed and a minimum of one set for each structural component.
- Normal Portland Cement Type 10 for all concrete except use sulphate resisting cement Type 50 for all pile caps and piles
- CONCRETE DESIGN STRENGTH @ 28 days
 - 35 MPa: precast concrete
 - 32 MPa: piles and pile caps
 - 25 MPa: all other concrete U/N
- AGGREGATE SIZE:
 - max 1 1/2" for pile caps & piles
 - max 3/4" for all other concrete
 - max 1/2" for masonry lintels and core fill
- SLUMP:
 - 3 1/2" +/- 3/4" for all concrete
 - except 6" +/- 3/4" for masonry fill.
- AIR ENTRAINMENT:
 - 6% +/- 1% grade beams, exterior curbs and driveways, and parkade slabs
- Walls, piers and columns shall be poured a minimum of 24 hours before slabs and beams.
- Provide dovetail anchor slots in concrete walls and columns where masonry abuts.
- All structural slabs framing into concrete walls or beams shall have a minimum 1 1/2" chase into supporting member x the height of the slab.
- Where concrete beams frame into concrete walls or other concrete beams and are poured later, provide 1 1/2" chase (height and width to match beam).
- The use of calcium chloride is not permitted.
- Construction joint keys in grade beams shall be formed at pile locations only.
- Construction joint keys in structural slabs to be formed at 1/3 span. Provide key width equal to half the thickness of the slab. Provide 15M dowels @ 24" o/c top & bottom.
- Saw cuts for slab on grade shall be 1" deep & 1/8" wide. Cutting to be done not sooner than 12 hours, and not later than 24 hours after the slab is poured. Cuts to be filled with approved bituminous compound or caulking.
- Slip joint all paving against structural members with 1/2" impregnated fibreboard.
- Coordinate the location of all items embedded in concrete work with Architectural, Mechanical & Electrical drawings.
- Engineer to be notified at least 48 hours in advance of all major pours.
- Refer to architectural drawings for concrete surfaces requiring architectural finishes.
- Where voidform is indicated on drawings use cardboard shearmat below structural slabs and low density polystyrene below walls and gradebeams.
- Exterior sidewalks to be 4" thk. concrete on compacted granular fill reinforced with 10M @ 12" o/c E.W. mid-depth. Provide tooled control joints @ max. 5'-0" o/c and construction joints @ max. 20'-0" o/c.
- Concrete slab at exterior refuse container to be 6" thk. concrete on compacted granular fill reinforced with 15M @ 12" o/c E.W. mid. depth.

Plotted: 06-08-23 at 09:37:02 - Layout: "S-1" - Plot Scale: "PS 1:1" CAD file (by "Unknown CAD User"): "G:\06Files\W06098\W06098-sf.dwg"

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ASSINIBOINE PARK FOUNDATION PLAN AND SPECIFICATIONS			

Certificate of Authorization
Wolfrom Engineering Ltd.
No. 1156 Expiry: April 30, 2007

THIS SEAL IS NOT VALID UNLESS SIGNED & DATED BY THE ENGINEER