

# PROPOSED LAYOUT PLAN

1:250

#### **CONSTRUCTION NOTES:**

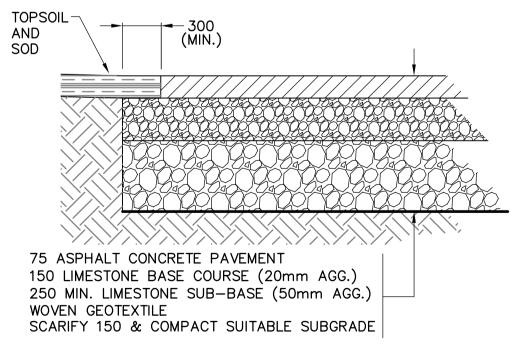
1. ALL PRODUCTS INCORPORATED IN THE WORK SHALL CONFORM TO THE CITY WINNIPEG "STANDARD CONSTRUCTION SPECIFICATIONS" AND BE REGISTERED IN THE CITY OF WINNIPEG LISTING OF APPROVED PRODUCTS OR AS SPECIFIED ON THIS DRAWING. ALL CONSTRUCTION SHALL CONFORM TO THE CITY OF WINNIPEG "STANDARD CONSTRUCTION SPECIFICATIONS". LATEST EDITION.

2. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THE LOCATIONS OF ALL UTILITIES. PIPES. SURVEY MARKERS. OR STRUCTURES. AND TO NOTIFY ALL RELEVANT UTILITIES PRIOR TO COMMENCEMENT OF CONSTRUCTION. THE CONTRACTOR SHALL NOTIFY THE CONTRACT ADMINISTRATOR OF ANY ERROR OR OMISSION PRIOR TO CONSTRUCTION.

3. IN ACCORDANCE WITH THE CITY OF WINNIPEG SURVEY INFRASTRUCTURE PROTECTION PROGRAM, THE CONTRACTOR SHALL NOTIFY THE GEOMATICS BRANCH A MINIMUM 3 DAYS PRIOR TO START OF CONSTRUCTION.

4. DESCRIPTION OF PROPERTY LIMITS, AND EXISTING AND/OR PROPOSED FEATURES RELATIVE TO THESE LIMITS AS SHOWN ON THIS DRAWING DO NOT REPRESENT A LEGAL SURVEY. GENIVAR MAKES NO REPRESENTATION OR GUARANTEE THAT THE PROPERTY LIMIT INFORMATION IS ACCURATE. GENIVAR ACCEPTS NO RESPONSIBILITY FOR DAMAGES, IF ANY, SUFFERED BY ANY THIRD PARTY AS A RESULT OF DECISIONS OR ACTIONS BASED ON THIS DRAWING.

5. ALL AREAS AFFECTED BY CONSTRUCTION TO BE RESTORED TO THE ORIGINAL CONDITION OR BETTER UNLESS NOTED OTHERWISE ON THE DRAWING. ALL REGRADED/DISTURBED SOD AREAS TO RECEIVE TOPSOIL AND SOD UNLESS NOTED OTHERWISE.



ASPHALT PAVEMENT PARKING LOT STRUCTURE N.T.S.

200 THICK CONCRETE SLAB R/W 10M @ 250 O/C, EACH WAY, T&B

300 LIMESTONE BASE COURSE (20mm AGG.) WOVEN GEOTEXTILE SCARIFY 150 AND COMPACT SUITABLE SUB-GRADE

CONCRETE PAD STRUCTURE

EXIST. CONCRETE BEAM/WALL TO BE THOROUGHLY CLEAN -SITE CONFIRMED EXPOSED FOUNDATION WALL AND INSTALL NEW DAMP PROOFING MEMBRANE TYPE 1 FILL COMPACTED -TO 95% STD. PROCTOR DENSITY AND MAX. 150 LIFTS. DO NOT USE VIBRATORY ROLLER.

 $\stackrel{/}{-}$  150 DIA. WEEPING TILE C/W FILTER SOCK AND 19 DIA. CLEAR RIVER WASH DRAINAGE STONE 150 MIN. AROUND TILE

WEEPING TILE DETAIL

## PROPOSED GRADING PLAN

1:250

### STORM WATER DISCHARGE CRITERIA

- 1. RUN-OFF FLOWS DETERMINED BY THE RATIONAL FORMULA METHOD
- Q = 0.278CIA, WHERE Q = RATE OF RUNOFF (m<sup>3</sup>/s)C = COEFFICIENT OF RUNOFF
  - I = RAINFALL INTENSITY (mm/HR)A = DRAINAGE AREA (km<sup>2</sup>)
- 2. RAINFALL INTENSITY (I) = 5 YEAR C.O.W. DESIGN STORM, I = 110 mm/HR (I) = 25 YEAR C.O.W. DESIGN STORM, I = 154 mm/HR
- 3. 'Q' (5-YEAR) PRE-DEVELOPMENT CATCHMENT AREA = 0.3 Ha (or 0.73 ACRES)
- 'C' ALLOWABLE = 0.35
- ALLOWABLE DISCHARGE FROM SITE,  $Q_s = 32 \text{ L/s}$ 4. 'Q' (25-YEAR) - POST DEVELOPMENT
- TIME OF CONCENTRATION = 10 MINUTES  $Q_{25} = 89 \text{ L/s}$

RESTRICTED FLOW, Q = 27 L/s (USING 100mm FLOW RESTRICTOR)

REQUIRED ON-SITE STORAGE =  $37 \text{ m}^3$ AVAILABLE ON-SITE STORAGE =  $36 \text{ m}^{-3}$  **METRIC** 

WHOLE NUMBERS INDICATE MILLIMETRES **DECIMALIZED NUMBERS INDICATE METRES** 

> **APEGM** Certificate of Authorization GENIVAR Inc.

No. 5079 Date: February 4, 2011

CITY DRAWING NO.

150 mm WM	WATERMAIN	150 mm WM	····	GAS					LOCATION APPROVED
$\phi$	HYDRANT	•		HYDRO					UNDERGROUND STRUCTURES
$\otimes$	VALVE	•	· · ·	M.T.S.					
300 mm LDS	LAND DRAINAGE SEWER	300 mm LDS	$\boxtimes$	PEDESTAL					
<u>250 mm CS</u>	WASTE WATER SEWER	250 mm CS	230.000	GROUND ELEVATION	230.00				SUPV. U/G STRUCTURES DATE
0	MANHOLE		(230.000)	PAVEMENT ELEVATION	230.000				COMMITTÉE
	CATCH BASIN			PROPERTY LINE					NOTE:
Δ	CURB INLET	<b>A</b>	<del> </del>	SURVEY BAR					LOCATION OF UNDERGROUND STRUCTURES AS SHOWN ARE BASED ON THE BEST INFORMATION
ड	SIGN		ð	CURB STOP					AVAILABLE BUT NO GUARANTEE IS GIVEN THAT ALL EXISTING UTILITIES ARE SHOWN OR
<b>○</b> ─○	LAMP STANDARD	•	<b>+</b>	TESTHOLE					THAT THE GIVEN LOCATIONS ARE EXACT. CONFIRMATION OF EXISTENCE AND EXACT
•	UTILITY POLE								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.
EXISTING	LEGEND — PLAN	PROPOSED	EXISTING	LEGEND - PLAN	PROPOSED	EXISTING	LEGEND - PROFILE	PROPOSED	BEFORE PROCEEDING WITH CONSTRUCTION.

	S. S ON OF	B.M. 72-028	RA ST., TBL E, 3.0M N W. OF E.I	_T.	10 PRAIRIE WAY WIN	NIVAR INIPEG, MANITOBA R2J 3J8 D FAX: (204)-474-2864
					DESIGNED BY R.C.	CHECKED BY D.T.B./B.D.E.
SN					DRAWN BY R.C.	APPROVED B.D.E.
					HOR. SCALE: 1:250 (A1) VERT. SCALE:	RELEASED FOR CONSTRUCTION
	0	ISSUED FOR REVIEW	11/02/04	R.C.	VERT. SOALE.	
	NO.	REVISIONS	DATE	BY	DATE: FEBRUARY 2011	DATE

ENGINEER'S SEAL	THE CITY PLANNING, PRO
R. CABIGTING Member 24617  PROFESSIONAL	LAND DRAINAGE IMPROVEMENTS LOT REDEVELOPMENT FOR THE KINGS COMMUNITY CENTRE AND
CONSULTANT DRAWING NO.	PROPOSED SITE PLAN

101-17599-C02

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### THE CITY OF WINNIPEG PLANNING, PROPERTY & DEVELOPMENT

LAND DRAINAGE IMPROVEMENTS AND PARKING	CITY [ 54-201		
LOT REDEVELOPMENT FOR THE RICHMOND KINGS COMMUNITY CENTRE AND ARENA	SHEET	2	C
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SHEET	2	of 3
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