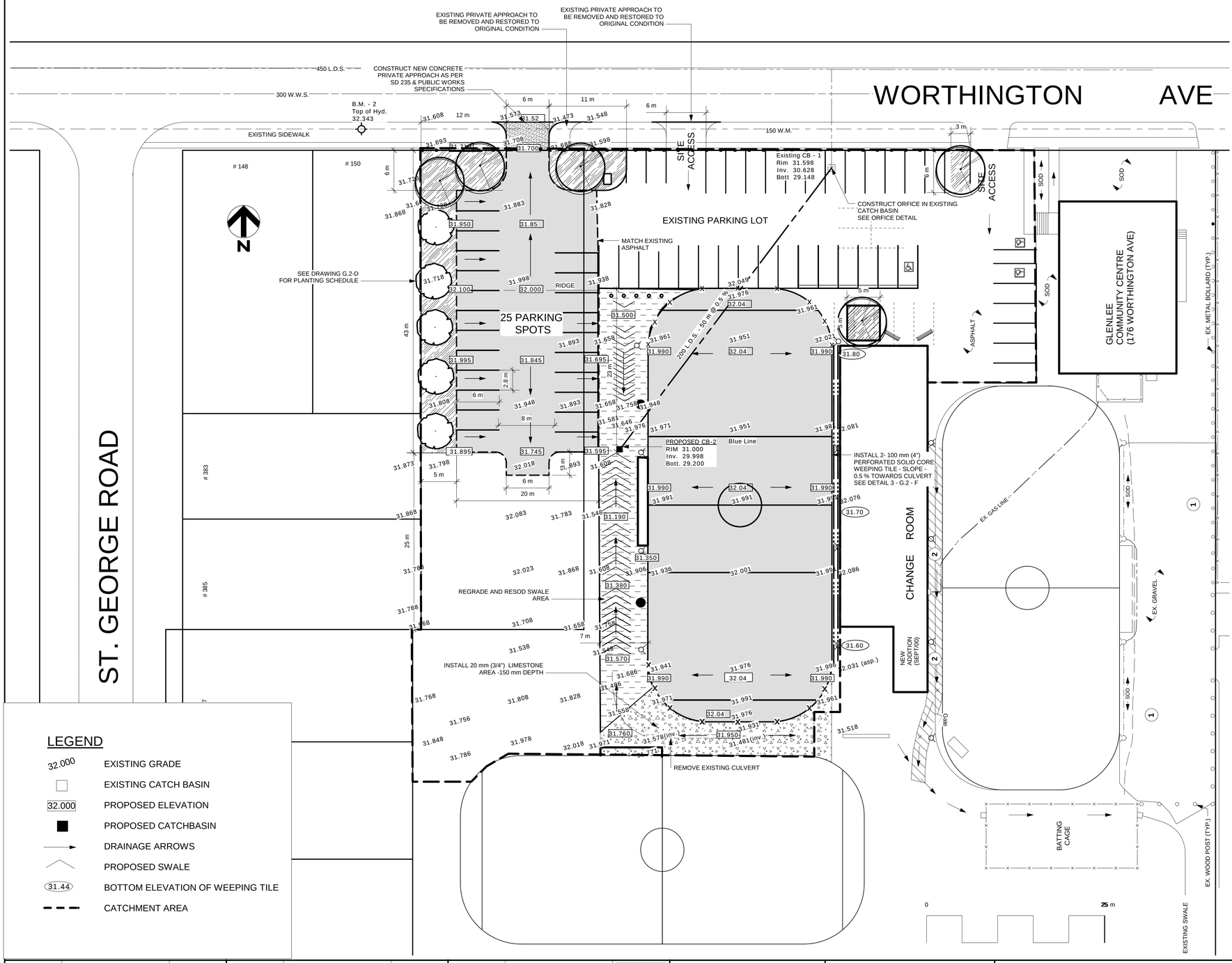


CONSTRUCTION NOTES:

1.) THIS SPECIFICATION WILL SUPPLEMENT THE CITY OF WINNIPEG'S STANDARD CONSTRUCTION SPECIFICATION CW 3170 - R3

2.) THE CONTRACTOR SHALL EXCAVATE EXISTING IN-SITE MATERIAL WITHIN THE PARKING LOT AREAS IDENTIFIED ON THE CONSTRUCTION DRAWINGS TO THE REQUIRED DEPTH TO ALLOW FOR THE SPECIFIED COMPACTED THICKNESS OF BASE AND ASPHALT

3.) ALL EXCESS EXCAVATED MATERIAL WILL BE REMOVED, HAULED AND DISPOSED OFF-SITE TO THE SATISFACTION OF THE CONTRACT AMINISTRATOR.

4.) SITE GRADING WILL BE COMPLETED WITHIN THE LIMITS INDICATED AND TO THE DESIGN ELEVATIONS AND GRADIENTS SHOWN ON THE CONSTRUCTION DRAWINGS

5.) THE DESIGN GRADIENT FOR ALL AREAS WILL BE CONSIDERED TO BE STRAIGHT GRADE BETWEEN THE DESIGN ELEVATION SHOWN

6.) ELEVATIONS SHOWN ON THE CONSTRUCTION DRAWINGS ARE TO BE FINISHED GRADE (IE. TOP OF ASPHALT AND SOD)

7.) ALL PLANS TO BE APPROVED BY THE CITY OF WINNIPEG WATER AND WASTE AND PUBLIC WORKS DEPARTMENTS.

8.) ALL GRADES TO BE CONFIRMED WITH CITY OF WINNIPEG PRIOR TO CONSTRUCTION

9.) DETERMINE LOCATION OF ALL UNDERGROUND UTILITIES AND OBTAIN CLEARENCES PRIOR TO CONSTRUCTION. UNDERGROUND INFORMATION IS BASED ON THE BEST INFORMATION AVAILABLE. THE CITY OF WINNIPEG MAKES NO GUARANTEE TO THE CORRECTNESS OF THE INFORMATION.

10.) CONTRACTOR RESPONSIBLE TO CLEAN UP SITE AFTER CONSTRUCTION. THE CONTRACTOR SHALL RESTORE ALL AREAS OF THE SITE BEYOND THE ESTABLISHED LIMIT OF WORK TO AS GOOD OR BETTER THAN THE ORIGINAL CONDITION.

11.) ALL ELEVATIONS BASED UPON GEODETIC ELEVATIONS. ADD 200.00 FOR ALL ELEVATIONS.

1.0 CONSTRUCTION NOTES

.1 ALL CONSTRUCTION TO CONFORM WITH APPROPRIATE CITY OF WINNIPEG CONSTRUCTION SPECIFICATIONS.

.2 CONTRACTOR TO OBTAIN ALL PERMITS.

.3 CONTRACTOR TO CLEAR UTILITIES BEFORE EXCAVATING.

.4 AUGER UNDER STREET PAVEMENT.

.5 BACKFILL ALL TRENCHES IN PARKING LOTS WITH GRANULAR FILL.

.6 BACKFILL IN LANDSCAPED AREAS TO BE CLASS FIVE.

.7 **MATERIALS**

LDS: SDR-35
CATCH BASINS: 750 mm x 1.20 m WITH OPEN GRATES

2.0 DRAINAGE DESIGN NOTES

.1 RATIONAL FORMULA WAS USED.
Q = CIA FOR FIVE YEAR STORM
CATCHMENT AREA (A) = 60005M = 1.48AC
t = 20 MINUTES
i = 3.0 in/HR

$$I = \frac{47.2}{(t + 8)^{.828}}$$

.2 ASSUMED ALLOWABLE RUNOFF COEFFICIENT; C = 0.35
MAXIMUM ALLOWABLE OUTFLOW: 1.5 CFS (PEAK FLOW)

.3 CALCULATED RUNOFF COEFFICIENT FOR CATCHMENT AREA IS 0.55
(REFER TO RUNOFF CALACULATION TABLE).
ORFICE SIZE REQUIRED IS 75 mm (MINIMUM SIZE).

.4 ALL STORAGE CATCHMENT AREAS ARE CALCULATED TO CONTAIN A 25 YEAR STORM.

RUNOFF COEFFICIENT TABLE

SURFACE	AREA	C	FRACTION
PAVEMENT	3500 SM	0.90	0.52
LANDSCAPING	2500 SM	0.10	0.04
	6000 SM		0.56

AVERAGE WEIGHTED C = 0.55 (ROUNDOFF)

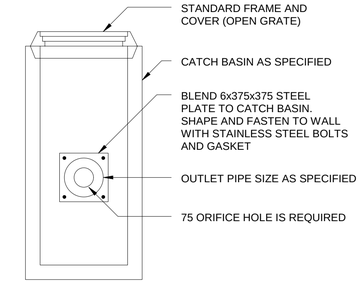
3.0 MISCELLENEOUS NOTES

.1 TOPGRAPHIC SURVEY BY PUBLIC WORKS

.2 EXISTING UTILITY INFORMATION COMPILED FROM WATER & WASTE GEO ENGINEERING DRAWING.

.3 GEODETIC BENCH MARK 62-001
ELEVATION 232.121 METRERS.

.4 SECONDARY BENCH MARK NO #2 - TOP OF HYDRANT
AS SHOWN 232.343 METRES.



ORFICE DETAIL
N.T.S.

LEGEND

- 32.000 EXISTING GRADE
- EXISTING CATCH BASIN
- 32.000 PROPOSED ELEVATION
- PROPOSED CATCHBASIN
- DRAINAGE ARROWS
- PROPOSED SWALE
- 31.44 BOTTOM ELEVATION OF WEEPING TILE
- CATCHMENT AREA

EXISTING	LEGEND - PLAN	PROPOSED
	WATERMAIN	
	HYDRANT	
	VALVE	
	LAND DRAINAGE SEWER	
	WASTE WATER SEWER	
	MANHOLE	
	CATCH BASIN	
	CURB INLET	
	GAS	

EXISTING	LEGEND - PLAN	PROPOSED
	HYDRO	
	M.T.S.	
	CONCRETE	
	ASPHALT	
	PROPERTY LINE	
	SURVEY BAR	
	CURB STOP	
	C.B. LEAD	
	SIDEWALK	
	SIDEWALK RAMP	
32.55	ELEVATIONS	32.55

EXISTING	LEGEND - PROFILE	PROPOSED
150mm W.M.	WATERMAIN	150mm W.M.
	HYDRANT	
	VALVE	
300mm L.D.S.	LAND DRAINAGE SEWER	300mm L.D.S.
250mm W.W.S.	WASTE WATER SEWER	250mm W.W.S.

LOCATION APPROVED
UNDERGROUND STRUCTURES

SUPV. U/G STRUCTURES COMMITTEE — DATE

NOTE:

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.

B.M. G.B.M. - 62-001
ELEV. 232.121

NO.	REVISIONS	DATE	BY

THIS DRAWING SHALL NOT BE USED FOR CONSTRUCTION PURPOSES UNTIL SIGNED BELOW.

THE CONTRACTOR SHALL CHECK ALL DIMENSIONS AND OTHER DATA ON SITE AND REPORT ANY DISCREPANCIES TO THE CONTRACT ADMINISTRATOR.

FIGURED DIMENSIONS TO BE TAKEN IN PREFERENCE TO SCALED DIMENSIONS.

DESIGNED BY J.F.	CHECKED BY J.K.
DRAWN BY J.F.	APPROVED BY J.K.
HORI. SCALE 1:300	
VERT.SCALE	
DATE July 2006	

RELEASED FOR CONSTRUCTION

MANAGER, PARKS AND OPEN SPACE — DATE

DIRECTOR OF PLANNING, PROPERTY AND DEVELOPMENT DEPARTMENT — DATE

ENGINEER'S SEAL

CONSULTANT DRAWING (016178)

Winnipeg

THE CITY OF WINNIPEG
Planning, Property and Development Department
Planning and Land Use Division
Unit 15 - 30 Fort Street, Winnipeg, Manitoba R3C 4X5

DRAWING TITLE

Glenlee Community Center Grading and Land Drainage Plan 176 Worthington Avenue

CAD DRAWING NO.

SHEET 2 OF 4

DRAWING NO. G.2 - E