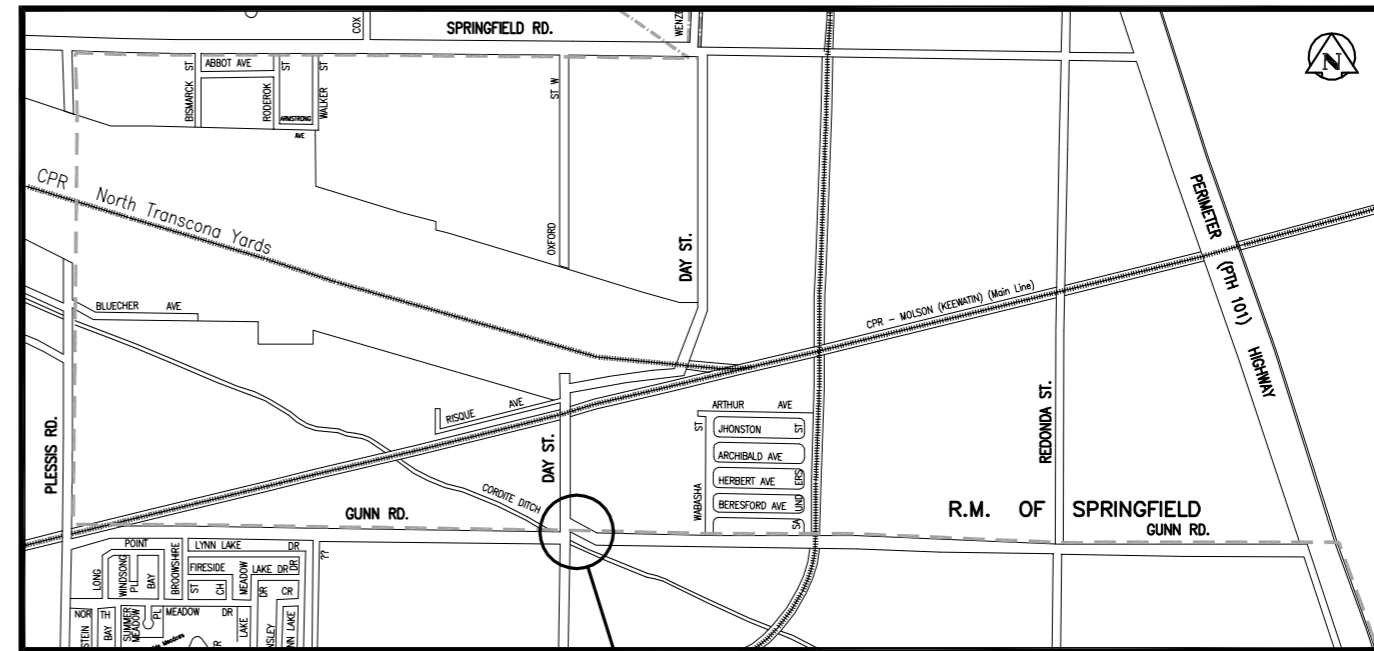


# THE CITY OF WINNIPEG

PUBLIC WORKS DEPARTMENT  
TRANSPORTATION ENGINEERING DIVISION



CULVERT SITE  
INTERSECTION OF GUNN ROAD & DAY STREET

# GUNN ROAD RECONSTRUCTION

## CORDITE DITCH CULVERT REPLACEMENT AT DAY STREET AND GUNN ROAD

BID OPPORTUNITY No. 923-2009

### DESIGN DATA

DESIGN SPECIFICATION	- CAN/CSA-56-06
LIVE LOAD	- CL625 - DESIGN LANE LOAD
REINFORCING STEEL	- CSA G30.18 - M92 (R2002) GRADE 400W
CONCRETE STRENGTH AT 28 DAYS	- 35 MPa

### GENERAL NOTES

THESE DRAWINGS TO BE READ IN CONJUNCTION WITH THE CONTRACT SPECIFICATIONS.  
EXISTING DIMENSIONS ARE APPROXIMATE ONLY. CONTRACTOR SHALL SITE VERIFY ALL DIMENSIONS.

### REINFORCING

CONCRETE CLEAR COVER TO REINFORCEMENT 65mm FOR TOP FACE OF CULVERT, 50mm FOR ALL OTHER SURFACES.

SUPPLY SUPPORT BARS TO SUPPORT MAIN REINFORCEMENT AS REQUIRED.

#### LAP SPLICE SCHEDULE

BAR SIZE	EMBEDMENT	TENSION LAP
15M	400	550
20M	500	700
25M	800	1100

LAP SPLICE SCHEDULE IS FOR CLASS B SPLICE UNLESS NOTED OTHERWISE AND APPLIES TO REINFORCING SPLICES NOT OTHERWISE DETAILED.

LOCATE REINFORCING SPLICES NOT INDICATED ON THE DRAWINGS AT POINTS OF MINIMUM STRESS.  
LOCATIONS OF SPLICES TO BE APPROVED BY THE ENGINEER.

BEFORE PLACING REBAR, ENSURE IT IS CLEAN, FREE OF LOOSE SCALE, DIRT, OR OTHER FOREIGN COATING WHICH WOULD REDUCE THE BOND TO CONCRETE.

### DRAWING INDEX

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### LIST OF ABBREVIATIONS

@	AT	IB	IRON BAR
ALT.	ALTERNATING	I.F.	INSIDE FACE
ALUM.	ALUMINUM	LG.	LONGE
APPROX.	APPROXIMATE	MK.	MARK
AVE.	AVENUE	MAX.	MAXIMUM
B.C.	BEGINNING OF CURB	m	METRE
BOT.	BOTTOM	MIN.	MINIMUM
B/W	BOTH WAYS	mm	MILLIMETRE
C.I.P.	CAST-IN-PLACE	No.	NUMBER
CJ.	CONSTRUCTION JOINT	O/C	ON CENTRE
C/L	CENTRE LINE	O/O	OUTSIDE TO OUTSIDE
C/W	COMPLETE WITH	PL.	PLATE
CONC.	CONCRETE	QTY.	QUANTITY
CONT.	CONTINUOUS	R	RADIUS
CL.	CLEAR	REINF.	REINFORCEMENT
CRES.	CRESCENT	SHT.	SHEET
DBL.	DOUBLE	S.U.	SUBSTRUCTURE UNIT
DIA.	DIAMETER	THK.	THICK
DTL.	DETAIL	TYP.	TYPICAL
DWG.	DRAWING	T/O	TOP OF
E.C.	END OF CURB	U.N.O.	UNLESS NOTED OTHERWISE
E.E.	EACH END	U/S	UNDERSIDE
E.F.	EACH FACE	VERT.	VERTICAL
E.W.	EACH WAY	WM	WATERMAIN
EQ.	EQUAL	WP	WORKING POINT
EQ. SP.	EQUAL SPACE	W/	WITH
EL.	ELEVATION		
GALV.	GALVANIZING		
GRAN.	GRANULAR		
HORIZ.	HORIZONTAL		

### LOCATION PREFIX

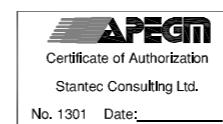
H - HEADWALL

### REINFORCING MARK NUMBERING SYSTEM

eg: H 25 15  
MARK SIZE OF BAR  
LOCATION PREFIX

### SECTION AND DETAILS

	A	SECTION NUMBER OR DETAIL LETTER
	B	DRAWING WHERE SECTION OR DETAIL IS TAKEN
	C	DRAWING WHERE SECTION OR DETAIL IS DRAWN



**Stantec Consulting Ltd.**

WINNIPEG

MANITOBA

RELEASED FOR CONSTRUCTION BY:

KEN TURKO, P.ENG.

DATE:

CONSULTANT DRAWING No.

G-001

CITY DRAWING No.

C365-10-01

CAD FILE DRAWING No.

05170g-001-726.dwg