



- CONSTRUCTION NOTES:**
1. THE CONTRACTOR MUST COMPLY WITH ALL SPECIFICATIONS OUTLINED IN E23 - OPERATING CONSTRAINTS FOR WORK IN CLOSE PROXIMITY TO FEEDERMAINS.
 2. PROPOSED WATERMAIN RENEWAL TO BE COMPLETED BY OTHERS IN JUNE / JULY 2011.
 3. EXIST. ALUMINUM GUARDRAIL TO BE SALVAGED AND DELIVERED TO CITY YARD. IN ACCORDANCE WITH E21

METRIC
WHOLE NUMBERS INDICATE MILLIMETRES
DECIMALIZED NUMBERS INDICATE METRES

- WARNING**
- IF POWER EQUIPMENT OR EXPLOSIVES ARE TO BE USED FOR EXCAVATION ON THIS PROJECT THE CONTRACTOR MUST:
1. NOTIFY THE GAS COMPANY OF THE PROPOSED LOCATION OF EXCAVATION.
 2. TAKE PRECAUTION TO AVOID DAMAGE TO GAS COMPANY INSTALLATIONS SEE PROVINCIAL REGULATION 210/72 FOR DETAILS.
 3. OBTAIN EXCAVATION PERMITS PRIOR TO CONSTRUCTION.

150 WM	150 WWS	HYDRO	HYDRO	HYDRO	150 mm W.M.	WATERMAIN	150 mm W.M.
WATERMAIN	HYDRANT VALVE	M.T.S.	M.T.S.	M.T.S.	300 mm L.D.S.	LAND DRAINAGE SEWER	300 mm L.D.S.
300 L.D.S.	WASTE WATER SEWER	CONCRETE	CONCRETE	CONCRETE	250 mm W.W.S.	WASTE WATER SEWER	250 mm W.W.S.
250 WWS	MANHOLE	ASPHALT	ASPHALT	ASPHALT	250 mm W.W.S.	WASTE WATER SEWER	250 mm W.W.S.
CATCH BASIN	CURB INLET	PLANING	PLANING	PLANING	250 mm W.W.S.	WASTE WATER SEWER	250 mm W.W.S.
JUNCTIONS	CULVERT	SIDEWALK	SIDEWALK	SIDEWALK	250 mm W.W.S.	WASTE WATER SEWER	250 mm W.W.S.
100 GAS	100 GAS	PAVING STONES	PAVING STONES	PAVING STONES	250 mm W.W.S.	WASTE WATER SEWER	250 mm W.W.S.
EXISTING	LEGEND-PLAN	PARTIAL DEPTH REPAIR	PARTIAL DEPTH REPAIR	PARTIAL DEPTH REPAIR	250 mm W.W.S.	WASTE WATER SEWER	250 mm W.W.S.
		PROPERTY LINE	PROPERTY LINE	PROPERTY LINE	250 mm W.W.S.	WASTE WATER SEWER	250 mm W.W.S.
		CULVERT	CULVERT	CULVERT	250 mm W.W.S.	WASTE WATER SEWER	250 mm W.W.S.
		100 GAS	100 GAS	100 GAS	250 mm W.W.S.	WASTE WATER SEWER	250 mm W.W.S.
		EXISTING	LEGEND-PLAN	LEGEND-PLAN	250 mm W.W.S.	WASTE WATER SEWER	250 mm W.W.S.
		PROPOSED	LEGEND-PROFILE	LEGEND-PROFILE	250 mm W.W.S.	WASTE WATER SEWER	250 mm W.W.S.
		EXISTING	PROPOSED	PROPOSED	250 mm W.W.S.	WASTE WATER SEWER	250 mm W.W.S.
		LEGEND-PLAN	PROPOSED	PROPOSED	250 mm W.W.S.	WASTE WATER SEWER	250 mm W.W.S.
		PROPOSED	EXISTING	EXISTING	250 mm W.W.S.	WASTE WATER SEWER	250 mm W.W.S.
		EXISTING	LEGEND-PROFILE	LEGEND-PROFILE	250 mm W.W.S.	WASTE WATER SEWER	250 mm W.W.S.
		LEGEND-PLAN	PROPOSED	PROPOSED	250 mm W.W.S.	WASTE WATER SEWER	250 mm W.W.S.
		PROPOSED	EXISTING	EXISTING	250 mm W.W.S.	WASTE WATER SEWER	250 mm W.W.S.
		EXISTING	LEGEND-PROFILE	LEGEND-PROFILE	250 mm W.W.S.	WASTE WATER SEWER	250 mm W.W.S.
		LEGEND-PLAN	PROPOSED	PROPOSED	250 mm W.W.S.	WASTE WATER SEWER	250 mm W.W.S.
		PROPOSED	EXISTING	EXISTING	250 mm W.W.S.	WASTE WATER SEWER	250 mm W.W.S.
		EXISTING	LEGEND-PROFILE	LEGEND-PROFILE	250 mm W.W.S.	WASTE WATER SEWER	250 mm W.W.S.
		LEGEND-PLAN	PROPOSED	PROPOSED	250 mm W.W.S.	WASTE WATER SEWER	250 mm W.W.S.
		PROPOSED	EXISTING	EXISTING	250 mm W.W.S.	WASTE WATER SEWER	250 mm W.W.S.
		EXISTING	LEGEND-PROFILE	LEGEND-PROFILE	250 mm W.W.S.	WASTE WATER SEWER	250 mm W.W.S.

UNDERGROUND STRUCTURES

SUPPLY, 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. 654271 N 5517192.470 E 632610.651
ELEV. 233.084

NO.	REVISIONS	DATE	BY
1	ISSUED FOR TENDER	11/06/23	JNC

DESIGNED BY	RTM
DRAWN BY	PMW
CHECKED BY	JNC
APPROVED BY	DPK
HOR. SCALE	1:250
VERTICAL	1:10
DATE	2011/06/23



ENGINEER'S SEAL
PROVINCE OF MANITOBA
ORIGINAL STAMPED BY
J.N. CRANG
2011/06/23
REGISTERED PROFESSIONAL ENGINEER

THE CITY OF WINNIPEG
PUBLIC WORKS DEPARTMENT

Winnipeg

BISON DRIVE & PEMBINA HIGHWAY
INTERSECTION IMPROVEMENTS

PAVING AND GRADING
STA: 0+505 TO 0+685

CITY DRAWING NUMBER
P-3327-13

SHEET
13 OF 24

CONSULTANT DRAWING NUMBER

CONSULTANT PROJECT NUMBER
11-4587

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