



- 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 | WATERMAIN           | 150 WM | HYDRO | HYDRO                | HYDRO | 150 mm W.M. | WATERMAIN           | 150 mm W.M. |
|--------|---------------------|--------|-------|----------------------|-------|-------------|---------------------|-------------|
| +      | HYDRANT             | +      | MTS   | M.T.S.               | MTS   | +           | HYDRANT             | +           |
| +      | VALVE               | +      | MTS   | CONCRETE             | MTS   | +           | VALVE               | +           |
| +      | LAND DRAINAGE SEWER | +      | MTS   | ASPHALT              | MTS   | +           | LAND DRAINAGE SEWER | +           |
| +      | WASTE WATER SEWER   | +      | MTS   | PLANNING             | MTS   | +           | WASTE WATER SEWER   | +           |
| +      | MANHOLE             | +      | MTS   | SIDEWALK             | MTS   | +           | MANHOLE             | +           |
| +      | CATCH BASIN         | +      | MTS   | PAVING STONES        | MTS   | +           | CATCH BASIN         | +           |
| +      | CURB INLET          | +      | MTS   | PARTIAL DEPTH REPAIR | MTS   | +           | CURB INLET          | +           |
| +      | JUNCTIONS           | +      | MTS   | PROPERTY LINE        | MTS   | +           | JUNCTIONS           | +           |
| +      | CULVERT             | +      | MTS   | SURVEY BAR           | MTS   | +           | CULVERT             | +           |
| +      | GAS                 | +      | MTS   | CURB RAMP            | MTS   | +           | GAS                 | +           |
| +      | EXISTING            | +      | MTS   | EXISTING             | MTS   | +           | EXISTING            | +           |
| +      | LEGEND-PLAN         | +      | MTS   | PROPOSED             | MTS   | +           | LEGEND-PROFILE      | +           |
| +      | PROPOSED            | +      | MTS   | EXISTING             | MTS   | +           | PROPOSED            | +           |

**UNDERGROUND STRUCTURES**

SYUP, 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 | DESIGNED BY | RTP        |
| ELEV. 233.084                          | DRAWN BY    | PMW        |
|  | CHECKED BY  | JNC        |
|  | APPROVED BY | DPK        |
|  | HOR. SCALE  | 1:250      |
|  | VERTICAL    | 1:10       |
| 1 ISSUED FOR TENDER                    | DATE        | 11/06/23   |
| NO. REVISIONS                          | DATE        | BY         |
|  |             | 2011/06/23 |

**DILLON CONSULTING**

RELEASED FOR CONSTRUCTION  
ORIGINAL SIGNED BY B. KIBBINS  
DATE 11/06/23

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

BISON DRIVE & PEMBINA HIGHWAY  
INTERSECTION IMPROVEMENTS

PAVING AND GRADING  
STA: 1+840 TO 2+000

CITY DRAWING NUMBER  
P-3327-9  
SHEET 9 OF 24  
CONSULTANT DRAWING NUMBER

CONSULTANT PROJECT NUMBER  
11-4587

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