



THE CITY OF WINNIPEG

PUBLIC WORKS DEPARTMENT

OMAND'S CREEK CULVERT THROUGH SARGENT AVENUE

REPLACEMENT OF EXISTING CULVERTS AND RELATED WORKS

DRAWING SET

BID OPPORTUNITY No. 859-2008

DRAWING LIST

CITY OF WPG. DWG. NUMBER	SHEET NUMBER	DRAWING DESCRIPTION
C316-08-01	1	COVER SHEET
C316-08-02	2	DEMOLITION, EXCAVATION AND TEST HOLES
C316-08-03	3	GENERAL ARRANGEMENT OF PROPOSED WORKS
C316-08-04	4	CONCRETE BOX CULVERT LAYOUT
C316-08-05	5	CONCRETE BOX CULVERT DETAILS 1 OF 2
C316-08-06	6	CONCRETE BOX CULVERT DETAILS 2 OF 2
C316-08-07	7	SEWER AND FEEDERMAIN PROFILES
C316-08-08	8	ROADWAY RECONSTRUCTION AND EMBANKMENT PLAN BALANCED ALUMINUM BARRIER LAYOUT
C316-08-09	9	ROADWORKS, SEWER/FEEDERMAIN AND EMBANKMENT DETAILS
C316-08-10	10	BALANCED ALUMINUM BARRIER STANDARD DETAILS

REFERENCE DRAWINGS

D-1266	SARGENT AVENUE FEEDERMAIN PLAN & PROFILE
D-1272	DETAILS OF EXISTING VALVE PIT AND THRUST BLOCKS
56-0148-3	24" Ø FEEDERMAIN ON SARGENT AVENUE

DESIGN DATA

SPECIFICATIONS

1. CANADIAN HIGHWAY BRIDGE DESIGN CODE

VEHICULAR LIVE LOADING (WHICHEVER GOVERNS)
1. CL1-625

STRUCTURAL CONCRETE

1. CONCRETE $f'c=35\text{MPa}$ @ 28 DAYS

REINFORCING STEEL

1. REINFORCEMENT BARS - CAN/CSA G30.18 GRADE 400W

HYDRAULIC DESIGN DATA

1. DESIGN DISCHARGE (1% FUTURE FLOOD)

$Q=32.6\text{m}^3/\text{s}$
 $V=1.55\text{m}/\text{s}$
 $W.L.=232.90$

2. FISH PASSAGE (Q3D10)

$Q=6.2\text{m}^3/\text{s}$
 $V=0.6\text{m}/\text{s}$
 $W.L.=231.50$

3. LOW FLOW

$Q=0.5\text{m}^3/\text{s}$
 $V=0.1\text{m}/\text{s}$
 $W.L.=230.60$



LOCATION PLAN



CONSULTANT PROJECT NO. 04-3330-2000

DRAWING NUMBER: C316-08-01

COVER SHEET

1 OF 10