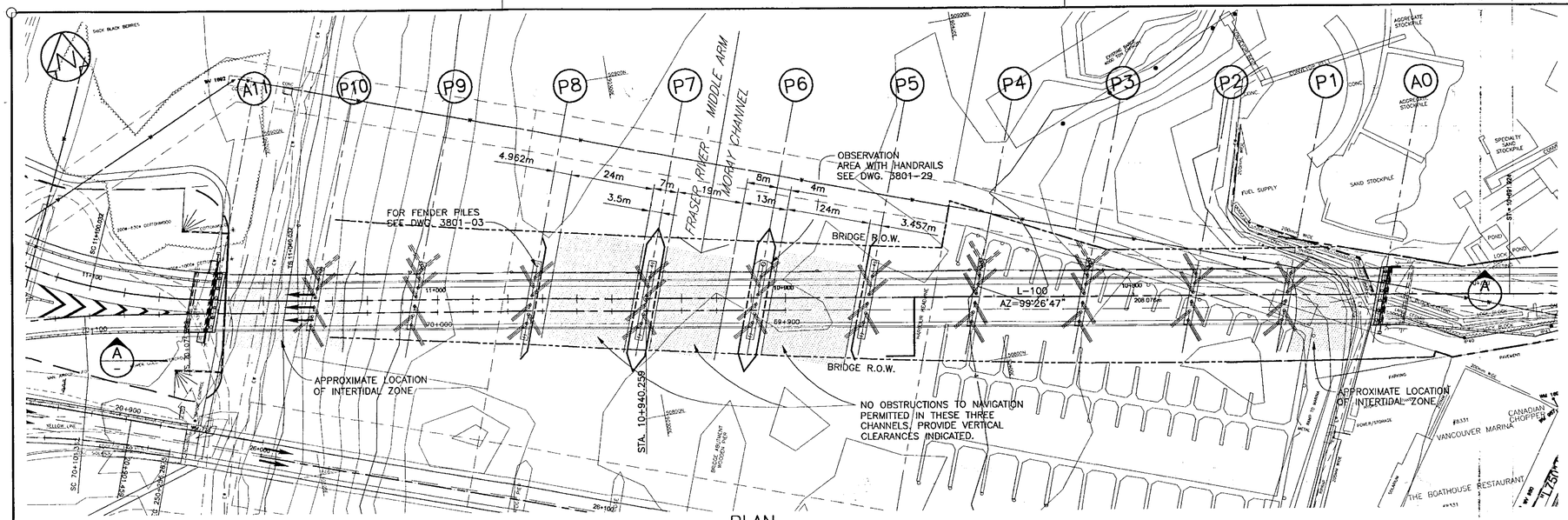
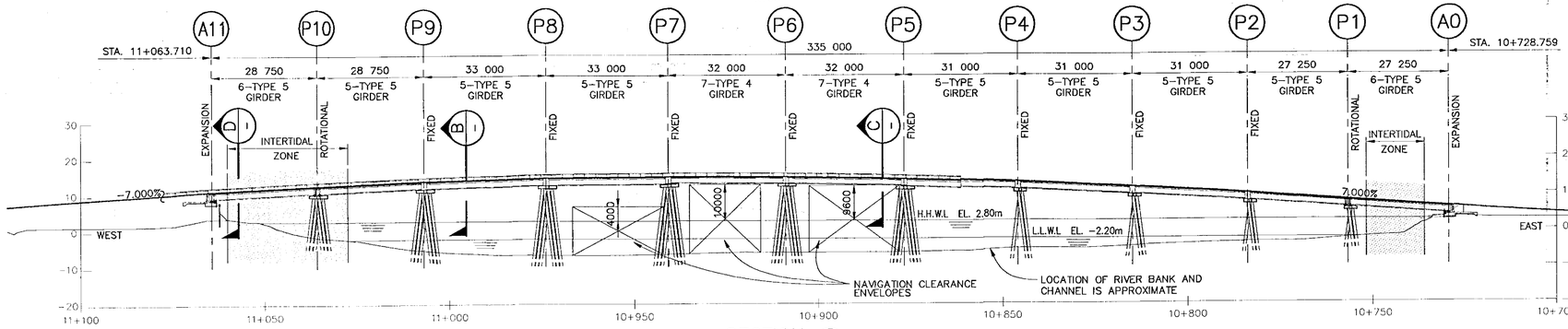
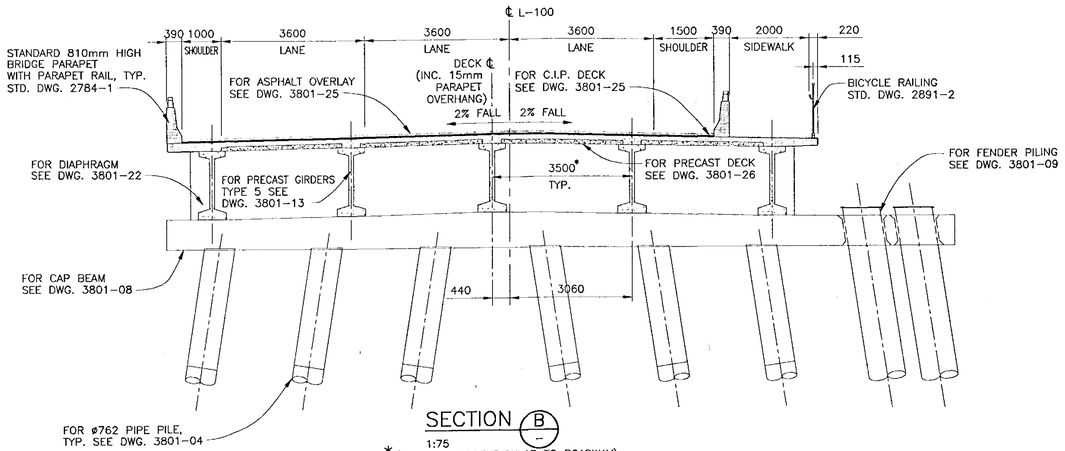


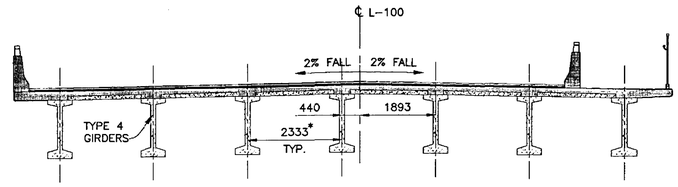
PLAN
1:750



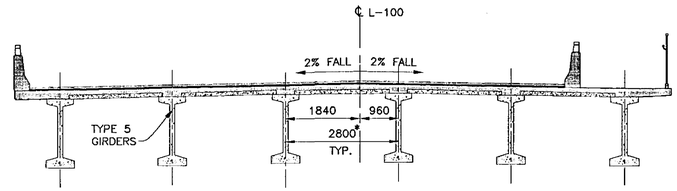
SECTION (A)
1:750
(PROFILE OF NEW MIDDLE ARM BRIDGE AT L100-LINE)



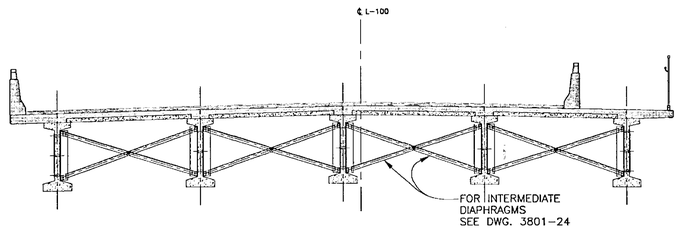
SECTION (B)
1:75
*(SECTION PERPENDICULAR TO ROADWAY)
TYPICAL SECTION FOR PIER WITH 5 GIRDER LAYOUT
(FOR PILE CAP LAYOUT, SEE DWG.-07)



SECTION (C)
1:75
*(SECTION PERPENDICULAR TO ROADWAY)
7 GIRDER LAYOUT



SECTION (D)
1:75
*(SECTION PARALLEL TO ROADWAY)
6 GIRDER LAYOUT



TYPICAL INTERMEDIATE DIAPHRAGMS
1:75 (SECTION PARALLEL TO CROSS BRACING)

DESIGN CRITERIA:

1. DESIGN SPECIFICATIONS:
   - CAN/SCA-S6-88
   - ONTARIO HIGHWAY BRIDGE DESIGN CODE
   - AASHTO SEISMIC DESIGN GUIDELINES
2. DESIGN LOADS:
   LIVE LOAD - CS-600
   DEAD LOAD - INCLUDES 90mm THICK WEARING SURFACE ALLOWANCE
3. SEISMIC DESIGN:
   - RETURN PERIOD: 10% EXCEEDENCE PROBABILITY IN 50 YEARS (1 IN 475 YEARS)
   - RESPONSE SPECTRUM $C_s = \frac{1.2AS}{T^{2/3}}$
   A= 0.21g
   S= 1.5
   T= NATURAL PERIOD OF STRUCTURE
4. DESIGN LIFE 100 YEARS.
5. DESIGN TEMPERATIRE RANGE: 22.3°C, -2.5°C
6. WIND LOAD 1 IN 100 YR. RETURN: S6, WITH q_{100} = 0.67kPa
7. SNOW LOAD: N.B.C. WITH S_s = 1.4kPa & S_R = 0.2 kPa

390458

Rev	Date	Description	Init
0	00/08/04	ISSUED FOR CONSTRUCTION	AGM
1	01/09/21	RECORD PRINT	AGM

ISSUE RECORD

SCALE AS SHOWN

DESIGNED A.G.M. DATE 99/11/29
CHECKED G.J.M. DATE 00/07/07
DRAWN D. PANG DATE 99/11/29

Rev	Date	Description	Init

REVISIONS

BCTFA BC Transportation Financing Authority

YVR Vancouver International Airport Authority

LOWER MAINLAND DISTRICT
AIRPORT CONNECTOR PROJECT
MIDDLE ARM BRIDGE NO. 3801
GENERAL ARRANGEMENT

OCT 04 2001

SNC·LAVALIN | WALTER CONSTRUCTION

Design Consultant: Sandwell

PREPARED UNDER THE DIRECTIO
ANTHONY G. MARTIN
CONSULTANT
DATE AUGUST 4 2000

FILE No. -
PROJECT No. 11611
REGION -
DRAWING No. - | 3801-02 | 1

CANCEL PRINTS BEARING PREVIOUS LETTER

SANDWELL CAD FILE No. 142356\ACAD\MARINE\23568002.dwg