GIRDERS G1 & G2

NORTH | SOUTH

ℂ OF BRIDGE

TYPICAL SECTION FOR ALL INTERMEDIATE DIAPHRAGM LOCATIONS FOR GIRDERS G1 AND G2

N

TYPICAL SECTION FOR ALL INTERMEDIATE DIAPHRAGM LOCATIONS FOR GIRDERS G3 AND G4

150 | 150 | 150 | 150 | 150 | 150 | 150 | 150

4 | 8 | 12

SECTION F
SCALE 1:25 (TYPICAL INTERMEDIATE DIAPHRAGM AT SPAN 1) 31|34

GIRDERS G3 & G4

NORTH

GIRDERS G1 & G2

ℂ OF BRIDGE

TYPICAL SECTION FOR ALL INTERMEDIATE DIAPHRAGM LOCATIONS FOR GIRDERS G1 AND G2

N

GIRDERS G3 & G4

SOUTH

P

175 | 175 | 4 | 150 | 150 | 150 | 8 | 150 | 150 | 150 | 12 | 175 | 175 | 15

SECTION G
SCALE 1:25 (TYPICAL INTERMEDIATE DIAPHRAGM AT SPANS 2 &3) 31|34

GIRDERS G3 & G4

NORTH

GIRDERS G1 & G2

ℂ OF BRIDGE

TYPICAL SECTION FOR ALL END DIAPHRAGM LOCATIONS FOR GIRDERS G1 AND G2

J

TYPICAL SECTION FOR ALL END DIAPHRAGM LOCATIONS FOR GIRDERS G3 AND G4

GIRDERS G3 & G4

SOUTH

K

1 | 60 | 60 | 4 | 75 | 75 | 8 | 12 | 60 | 100 | 100 | 100 | 15

SECTION H
SCALE 1:25 (END DIAPHRAGM AT SOUTH SIDEWALK) 31|34

L | M | Q | Q

ℂ | ℂ

BEARING/END DIAPHRAGM | BEARING/END DIAPHRAGM

SHEAR STUD (TYP.)

SHEAR STUDS NOT REQUIRED AT SU.4 LOCATION ONLY

SHEAR STUD (TYP.)

SHEAR STUDS NOT REQUIRED AT SU.4 LOCATION ONLY

ℂ INTERMEDIATE DIAPHRAGM | ℂ INTERMEDIATE DIAPHRAGM

150 TYP. | EQ. 150 150 150 EQ. | EQ. 150 150 150 EQ.

80 80 80 80 | 80 80 80 80 | 80 80 80 80 | 80 80 80 80

45 | 80 | 50 | 50 | 80 | 45

W840x176 | W610x82

7 SPACES @ 100 = 700 | 7 SPACES @ 80 = 560 | 6 SPACES @ 80 = 480 | 6 SPACES @ 80 = 480

PL347x20 STIFFENER BOTH SIDES
PL347x20 STIFFENER BOTH SIDES

PL190x12 STIFFENER BOTH SIDES TYPICAL EXCEPT AS SHOWN ON GIRDER LAYOUT DRAWING

W690x240

W610x82

JACKING STIFFENER PL 138x14 (TYP.) (PERPENDICULAR TO DIAPHRAGM WEB)

JACKING STIFFENER PL 168x14 (TYP.) (PERPENDICULAR TO DIAPHRAGM WEB)

22 mm BOLT
26 mm OVERSIZED HOLE (TYP. FOR INTERMEDIATE DIAPHRAGMS ONLY)

SECTION J 33|34 | **SECTION** K 33|34 | **SECTION** L | **SECTION** M | **SECTION** N | **SECTION** P | **SECTION** Q
SCALE 1:10 | SCALE 1:10 | SCALE 1:10 | SCALE 1:10 | SCALE 1:10 | SCALE 1:10 | SCALE 1:10

NOTES:
1. FOR STRUCTURAL STEEL NOTES, REFER TO SHEET # 31
2. SHEAR STUDS ARE NOT SHOWN ON GIRDERS FOR CLARITY.

LOCATION UNDERGROUND
APPROVED STRUCTURES

SUPV. 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.
ELEV.

DESIGNED BY JCL
DRAWN BY ABH
CHECKED BY SSR
APPROVED BY DPK
HOR. SCALE AS SHOWN
VERTICAL
DATE 2010/05/14

DILLON CONSULTING

ENGINEER'S SEAL
ORIGINAL STAMPED BY
S.S. RIHAL
2010/05/14
PROVINCE OF MANITOBA
REGISTERED PROFESSIONAL ENGINEER

RELEASED FOR CONSTRUCTION
ORIGINAL SIGNED BY RANDY FINGAS
DATE 2010/05/14

CONSULTANT PROJECT NO.
088813

THE CITY OF WINNIPEG
TRANSIT DEPARTMENT
Winnipeg

SOUTHWEST RAPID TRANSIT CORRIDOR - STAGE 1
OSBORNE STATION & ASSOCIATED WORKS
STEEL GIRDERS - DIAPHRAGMS 2 OF 2

CITY DRAWING NUMBER
B237-10-34
SHEET 34 OF 121
CONSULTANT DRAWING NUMBER
C5-S1119-T

1 | ISSUED FOR TENDER | 10/05/14 | DPK
NO. | REVISIONS | DATE | BY

G:\CAD\088813\Contract\Contract_5-Osborne Station\Current\Bridge\C5-GXXXX-DIAPHRAGMS.dwg