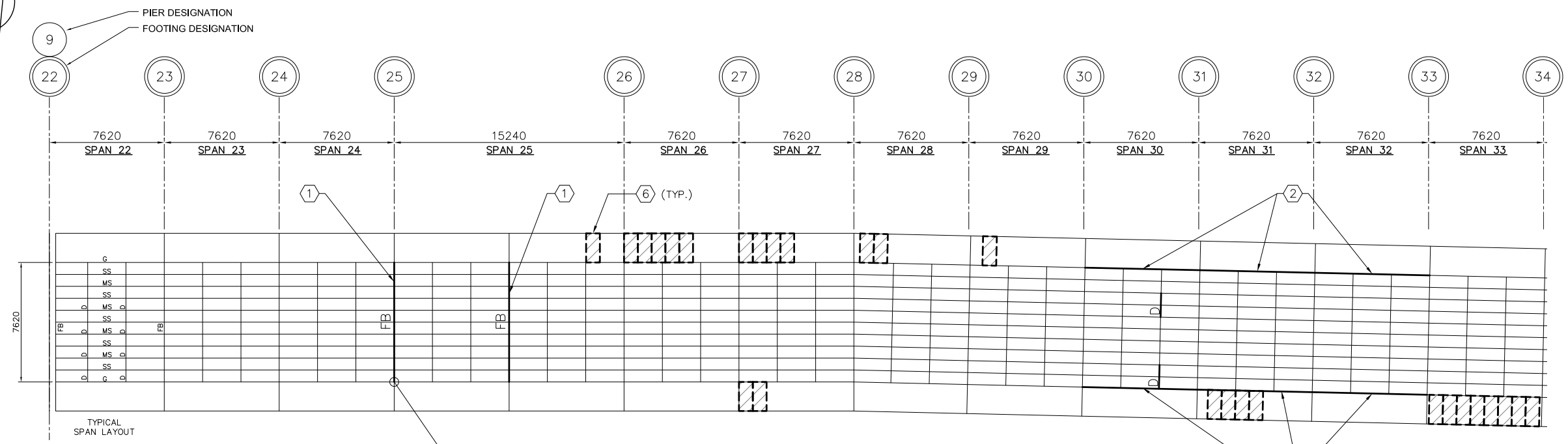
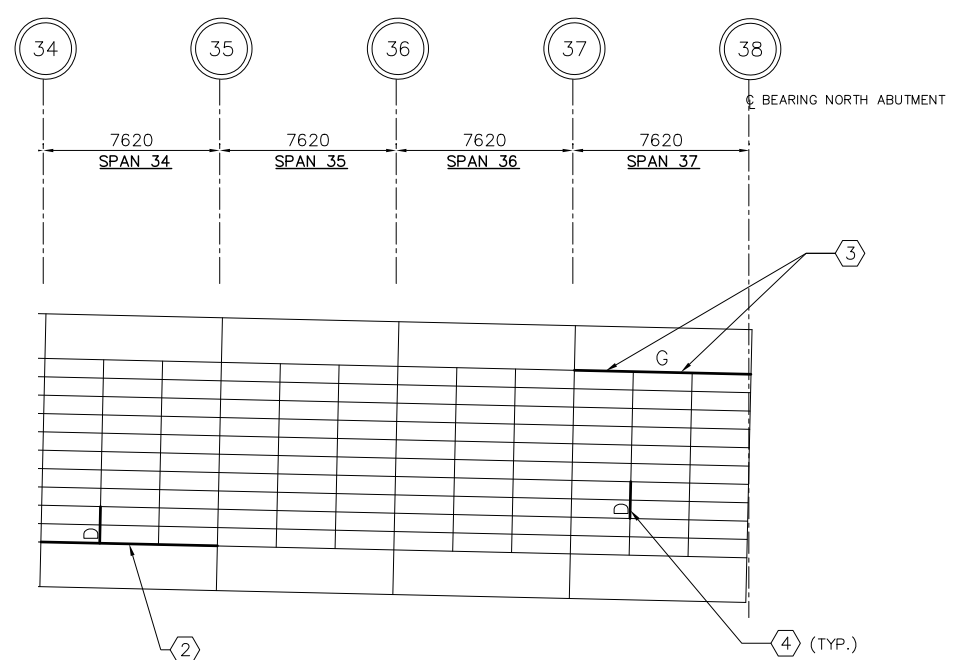


TYPICAL
SPAN LAYOUT

ABBREVIATIONS:
FB - FLOOR BEAM
G - GIRDER
MS - MAIN STRINGER
SS - SECONDARY STRINGER
D - DIAPHRAGM BEAM

ABBREVIATIONS SHOWN IN BOLD ARE MEMBERS TO BE REPAIRED/REPLACED.

UNDERSIDE DECK PLAN
SCALE N.T.S.



UNDERSIDE DECK PLAN
SCALE N.T.S.

NORTH APPROACH SPAN REPAIRS

REPAIR TYPE	DESCRIPTION	LOCATION	ESTIMATED QUANTITIES (PER REPAIR LOCATION)
1	REPLACE SEVERELY CORRODED BOTTOM FLANGES OF SELECTED FLOOR BEAMS WITH NEW EQUIVALENT DOUBLE ANGLE FLANGES ATTACHED TO THE EXISTING WEB WITH HIGH STRENGTH BOLTS.	SPAN – 25 (2 LOCATIONS)	2 – L–SHAPE 150x150x13–7620 LG. 90 – 22ø BOLTS
2	REPLACE ERODED TIMBER NAILER AND SUPPORTING ANGLES WITH NEW CHANNEL SECTIONS ATTACHED TO THE GIRDER WEB BY BOLTS.	SPAN 30 – 32, AND 34 (7 LOCATIONS)	1 – C–SHAPE 200x21–7620 LG. 1 – 90x13 –7620 LG. PLATE 100 – 19ø BOLTS
3	STRENGTHEN EXTERIOR GIRDER WEBS WITH HOLES, USING NEW STEEL PLATES BOLTED TO THE WEB.	SPAN 37 (2 LOCATIONS)	1 – 550x500x10 PLATE 10 – 16ø BOLTS
4	INSTALL NEW DIAPHRAGMS AND SUPPORT BRACKETS ADJACENT TO THE SEVERELY CORRODED DIAPHRAGMS.	SPAN 30, 34, AND 37 (4 LOCATIONS)	1 – W–SHAPE 200x21–1500 LG. 4 – L–SHAPE 152x89x7.9–100 LG. 2 – L–SHAPE 89x76x6.4–200 LG. 16 – 19ø BOLTS
6	INSTALL NEW CORRUGATED STEEL DECK UNDER SIDEWALK AND SUPPORT IT WITH NEW ANGLES AND BRACKETS	SPAN 25–29, 31, AND 33 (27 SEGMENTS)	1 – 914x1730 CD36 AGWAY CORRUGATED DECKING (1.22 THICK) 2 – L–SHAPE 76x76x10–914 LG. 2 – L–SHAPE 152x152x13–100 LG 2 – 19ø BOLTS
7	HEAT AND STRAIGHTEN LOWER ¼ OF PIER COLUMN AND CONDUCT NON–DESTRUCTIVE TESTING TO CONFIRM STEEL CONDITION. INSTALL STEEL PLATES TO STRENGTHEN THE COLUMN FLANGES AS NEEDED.	SPAN 25 – EAST COLUMN (1 LOCATION)	1 – 1448x254x19 PLATE

NOTE:
REFER TO SHEET 3 FOR THE PLAN OF TYPICAL APPROACH SPAN

THE DETAILS AND DIMENSIONS SHOWN ON THE DRAWINGS HAVE BEEN OBTAINED FROM ORIGINAL DESIGN DRAWINGS. CONTRACTOR TO VERIFY ALL DETAILS AND DIMENSIONS AND REPORT ANY DISCREPANCIES TO THE CONTRACT ADMINISTRATOR PRIOR TO COMMENCING WORK.

NOTE:

METRIC
WHOLE NUMBERS INDICATE MILLIMETRES
DECIMALIZED NUMBERS INDICATE METRES

B.M
ELEV.

	REVISION	DATE	BY
0	ISSUED FOR TENDER	27/04/20	J.W.

DESIGNED BY: M.M.
DRAWN BY: J.G.W.
CHECKED BY: D.N.B.
APPROVED BY: D.N.B.
AUTHORIZED BY:
ORIGINAL SIGNED BY M. MADY
M. MADY
BRIDGE MAINTENANCE ENGINEER

ENGINEER'S SEAL
PROVINCE OF MANITOBA
ORIGINAL SIGNED BY:
M.H.A. MADY
2020/04/27
REGISTERED PROFESSIONAL ENGINEER

BID OPPORTUNITY NO.:
163-2020

Winnipeg
CITY OF WINNIPEG
PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION

ARLING TON OVERPASS (CPR YARDS)
2020 STRUCTURAL STEEL REPAIRS

NORTH APPROACH SPANS

SHEET 6 OF 12
HORIZONTAL: N.T.S.
VERTICAL: N.T.S.
CITY DRAWING NUMBER:
B106-20-06