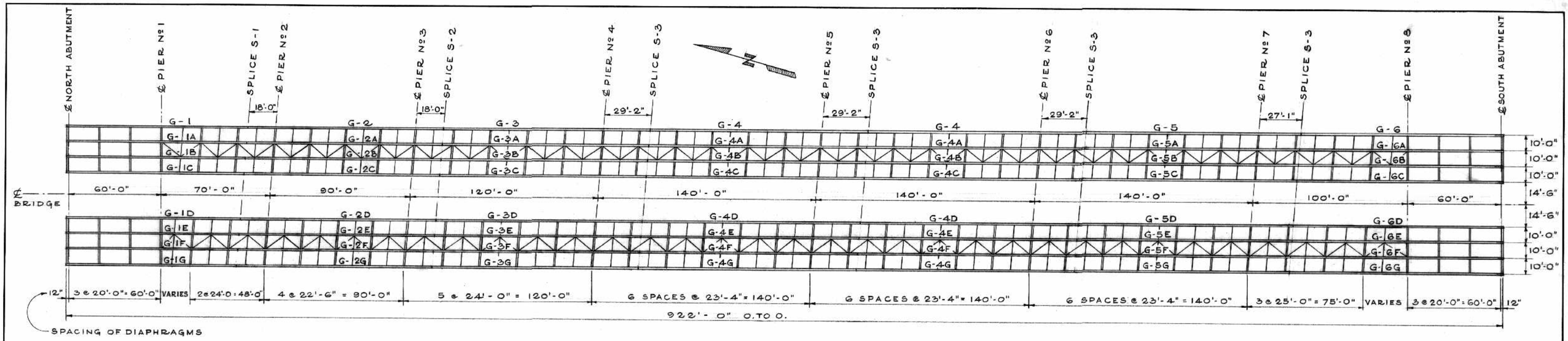
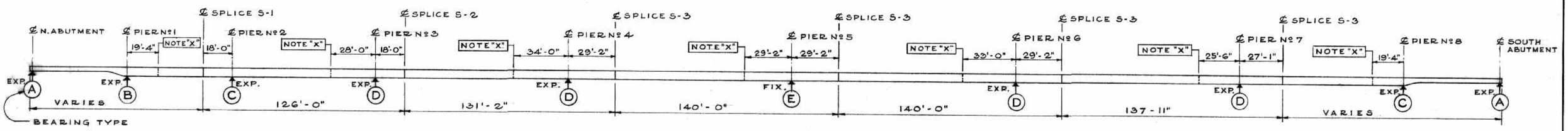
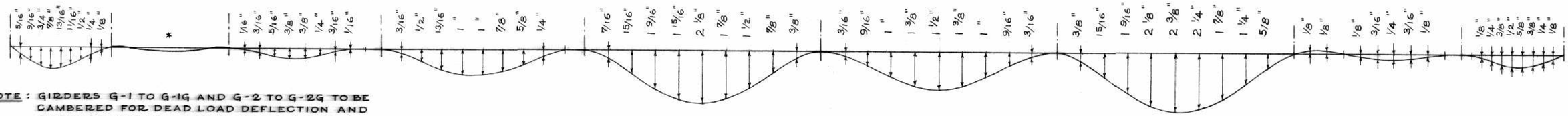


• PLAN SHOWING DIAPHRAGMS AND BRACING •



• ELEVATION OF GIRDERS •

• SCALE : 1" = 30'-0" •



NOTE : GIRDERS G-1 TO G-1G AND G-2 TO G-2G TO BE CAMBERED FOR DEAD LOAD DEFLECTION AND ROADWAY PROFILE SHOWN ON DWG. Nº S-3.

• THEORETICAL DEAD LOAD DEFLECTION DIAGRAM • (*DEFLECTIONS LESS THAN 1/8" NOT SHOWN)

• SCALE : HORIZ. 1" = 30'-0", VERT. HALF SIZE •

• GENERAL NOTES •

DESIGN SPECIFICATIONS

DESIGN IS IN ACCORDANCE WITH ASSHO 1961 AS AMENDED.

WELDING SPECIFICATIONS

WELDING IS TO CONFORM TO THE REQUIREMENTS OF SECTION 4 "WORKMANSHIP AND TECHNIQUE" OF AWS D 2.0-63; EXCEPT AS NOTED ON DRAWINGS AND SPECIFICATIONS.

MATERIALS

1. WEB PLATES TO CONFORM TO CSA G 40.8 GR.B.
2. FLANGE PLATES UP TO 1½" IN THICKNESS SHALL CONFORM TO CSA G40.8 GRB. FLANGE PLATES OF THICKNESS GREATER THAN 1½" SHALL CONFORM TO ASTM A441.
3. DIAPHRAGMS, JACKING BEAMS, BRACING AND STIFFENERS TO CONFORM TO ASTM A 36
4. BEARING BASE, SOLE PLATES AND GREASE BOXES TO CONFORM TO ASTM A 36.

LOADING

LIVE LOAD H 20-S16-44 - FUTURE 6 LANES.

DESIGN DATA

UNIT STRESSES
1. WEB PLATES, G 40.8B - 22,000 psi
2. FLANGE PLATES G 40.8B - 20,000 psi
3. FLANGE PLATES A 441 - 22,000 psi

FABRICATION

1. WEB AND FLANGE SHOP SPLICES TO BE STAGGERED FROM EACH OTHER A MINIMUM OF 12".
2. ALL BOLTS TO BE 7/8" ø H.S. BOLTS U/N.
3. ALL SHEAR CONNECTOR STUDS TO BE 3/4" ø x 4", NELSON OR EQUIVALENT.
4. ALL DIMENSIONS TRUE FOR 40° F.
5. WELDING OTHER THAN SHOWN ON THE DRAWINGS NOT PERMITTED WITHOUT WRITTEN AUTHORIZATION OF THE ENGINEER.
6. SHEAR CONNECTOR STUDS TO BE WELDED ON A SKEW OF 4° 30' ON ALL GIRDERS.

NOTE "X" ℄ OF ADDITIONAL FIELD SPLICE IF REQUIRED BY THE CONTRACTOR SUBJECT TO THE WRITTEN APPROVAL OF THE ENGINEER.

TOTAL WEIGHT OF SUPERSTRUCTURE (NOT INCLUDING BEARINGS) : 1,850,200 LBS

AS BUILT ALS MAR/68

B-5015-109

NO.	DATE	BY	DESCRIPTION
A	FEB/68	W.S.	CHAINAGES OF PIERS 4 & 5 TO BE REVISED PER DWG S-1

REVISIONS

APPROVED BY

DEPUTY DIRECTOR OF STREETS & TRANSIT

PROVINCE OF MANITOBA — D. J. SAMPSON — REGISTERED ENGINEER

THE METROPOLITAN CORPORATION OF GREATER WINNIPEG
STREETS AND TRANSIT DIVISION

ST. VITAL BRIDGE PROJECT

GENERAL ARRANGEMENT AND NOTES

PROVINCE OF MANITOBA — THOMAS LAMB — REGISTERED ENGINEER

T. LAMB, McMANUS & ASSOCIATES LTD.
CONSULTING ENGINEERS
EDMONTON CALGARY WINNIPEG

FILE No.	861
DATE	OCT. 1964.
SCALE	1" = 30'-0"
DWN. BY	A.V.S.
CHKD. BY	D.A.M.S.
DWG. No.	S-2