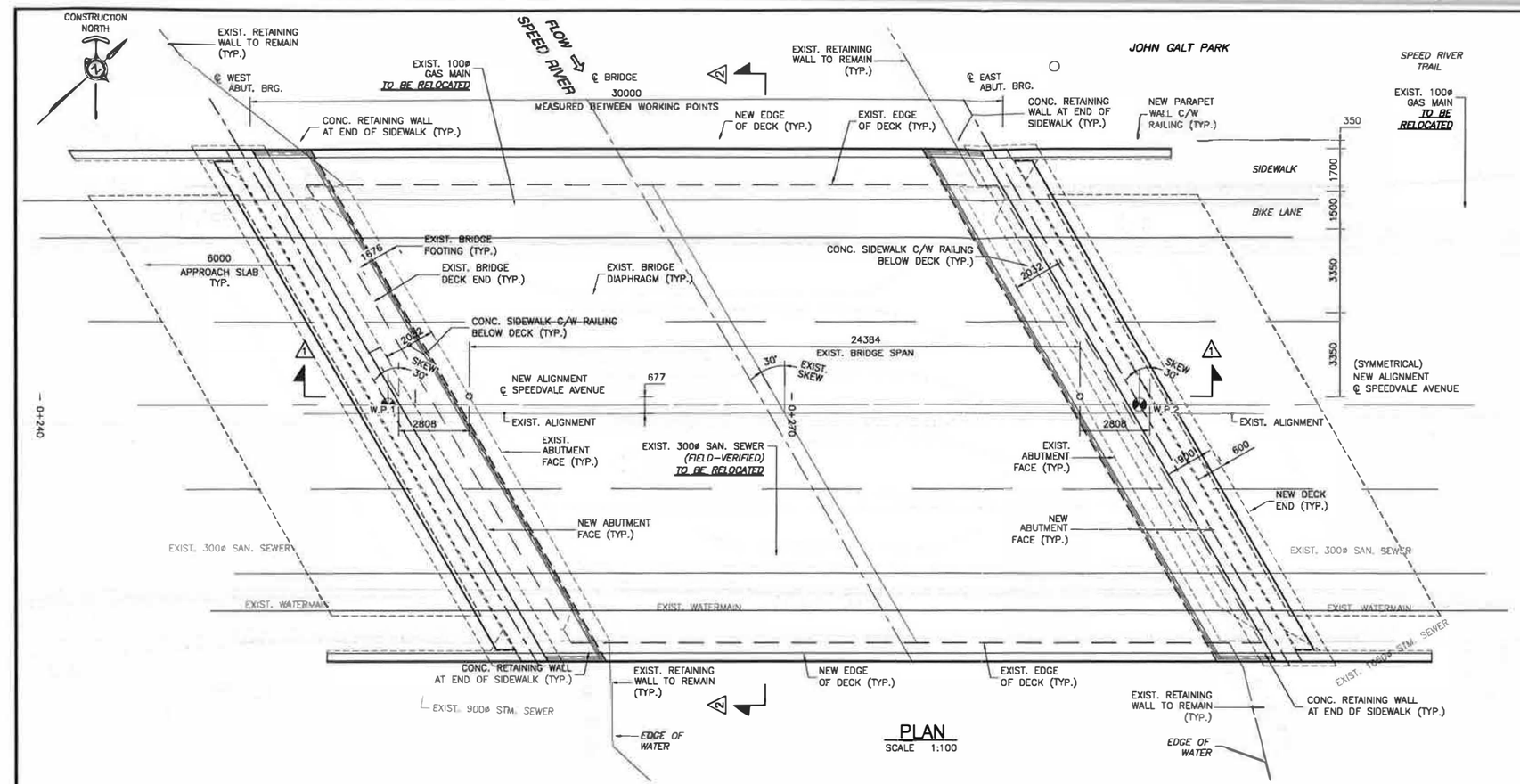
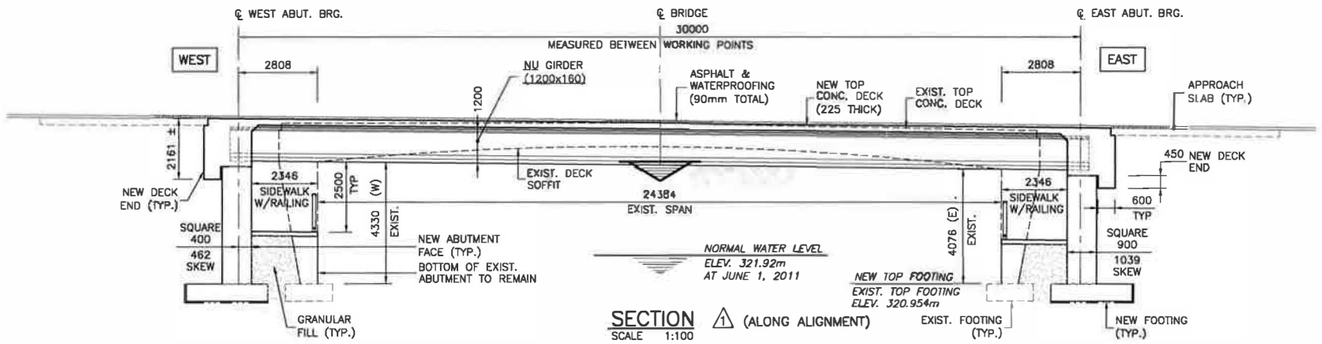
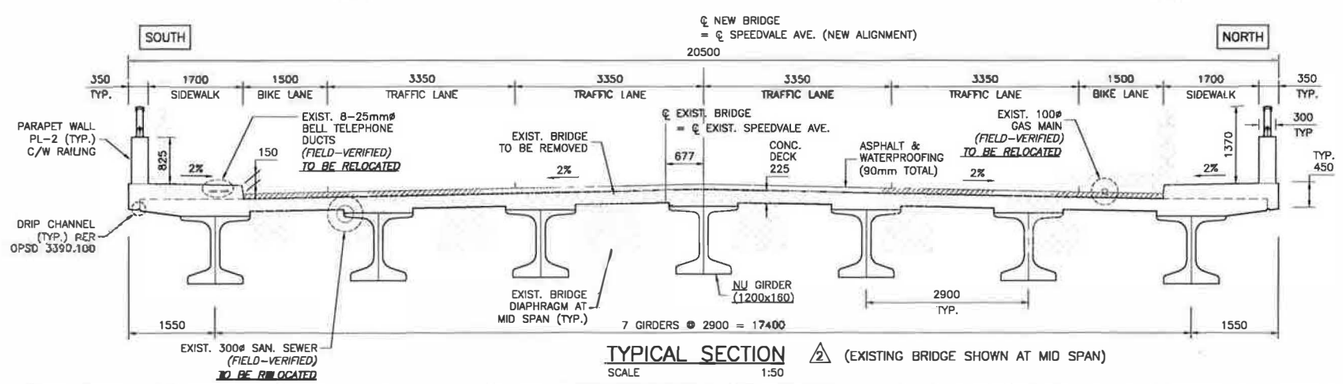


PLAN
SCALE 1:100



SECTION ⚠1 (ALONG ALIGNMENT)
SCALE 1:100



TYPICAL SECTION ⚠2 (EXISTING BRIDGE SHOWN AT MID SPAN)
SCALE 1:50

GENERAL NOTES

1. DESIGN CODE AND LOADING SHALL BE TO CANADIAN HIGHWAY BRIDGE DESIGN CODE (CHBDC) CAN/CSA-S6-06, CL-625-ONT LIVE LOADING.
2. CLASS OF CONCRETE
   - 60 MPa. – PRECAST CONCRETE GIRDERS.
   - 35 MPa. HPC – DECK, ABUTMENTS, APPROACH SLABS PARAPET WALLS, SIDEWALKS, RETAINING WALLS.
   - 35 MPa. – FOUNDATION.
3. CLEAR COVER TO REINFORCING STEEL
   PRECAST CONCRETE :
   FOLLOWING THE NU GIRDER MANUFACTURER'S CATALOGUE.
   CAST-IN-PLACE CONCRETE :
   FOOTINGS ..... 100 ±25
   DECK ..... TOP 70 ±20
   BOTTOM 40 ±10
   REMAINDER ..... 70 ±20 UNLESS OTHERWISE NOTED
4. REINFORCING STEEL
   - REINFORCING STEEL SHALL BE GRADE 400 UNLESS OTHERWISE SPECIFIED.
   - BARS MARKS WITH PREFIX "C" DENOTE COATED BARS.
   - STAINLESS REINFORCING STEEL SHALL BE TYPE 316LN OR DUPLEX 2205 AND HAVE A MINIMUM YIELD STRENGTH OF 500 MPa.
   - BARS MARKS WITH PREFIX "S" DENOTE STAINLESS STEEL BARS.
   - UNLESS SHOWN OTHERWISE, TENSION LAP SPLICES SHALL BE CLASS B.
   - BAR HOOKS SHALL HAVE STANDARD HOOK DIMENSIONS USING MINIMUM BEND DIAMETERS, WHILE STIRRUPS AND TIES SHALL HAVE MINIMUM HOOK DIMENSIONS. ALL HOOKS SHALL BE IN ACCORDANCE WITH THE STRUCTURAL STANDARD DRAWINGS SS12-1 AND SS12-2, UNLESS INDICATED OTHERWISE.
5. ALL EXPOSED EDGES TO BE CHAMFERED 25x25, EXCEPT AS NOTED.
6. CONSTRUCTION NOTES
   - THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS. DETAILS AND ELEVATIONS OF THE EXISTING STRUCTURE & UTILITIES THAT ARE RELEVANT TO THE WORK SHOWN ON THE DRAWINGS PRIOR TO COMMENCEMENT OF THE WORK. ANY DISCREPANCIES SHALL BE REPORTED TO THE CONTRACT ADMINISTRATOR IMMEDIATELY.
   - THE CONTRACTOR SHALL ESTABLISHED THE BEARING SEAT ELEVATIONS BY DEDUCTING THE ACTUAL BEARING THICKNESS FROM THE TOP OF BEARING ELEVATIONS. IF THE ACTUAL BEARING THICKNESS IS DIFFERENT FROM THOSE GIVEN WITH THE BEARING DESIGN DATA, THE CONTRACTOR SHALL ADJUST THE REINFORCING STEEL TO SUIT.
   - BACKFILL SHALL NOT BE PLACED BEHIND THE ABUTMENTS UNTIL THE BRIDGE DECK AND THE DECK EXTENSIONS ARE IN PLACE AND HAVE REACHED 70% OF THEIR DESIGN STRENGTH.
   - BACKFILL SHALL BE PLACED SIMULTANEOUSLY BEHIND BOTH ABUTMENTS KEEPING THE HEIGHT OF THE BACKFILL APPROXIMATELY THE SAME. AT NO TIME SHALL THE DIFFERENCE IN ELEVATION BE GREATER THAN 500mm.
   - ONLY WHEN THE NEW REPLACEMENT OF STRUCTURE BE COMPLETED AND APPROVED BY THE ENGINEER THEN THE EXISTING SUB-STRUCTURE SUCH AS ABUTMENTS CAN BE REMOVED.
7. THIS DRAWING TO BE READ IN CONJUNCTION WITH HIGHWAY AND STRUCTURAL DETAILS DRAWINGS.

APPLICABLE STANDARD DRAWINGS

- OPSD 3101.150 – WALLS ABUTMENTS, BACKFILL MINIMUM GRANULAR REQUIREMENT
- OPSD 3102.100 – WALLS ABUTMENTS, BACKFILL DRAIN
- OPSD 3390.100 – DECK DRIP CHANNEL

KEY PLAN Scale : NOT TO SCALE

LIST OF DRAWINGS

S1. GENERAL ARRANGEMENT
S2. REMOVALS
S3. FOUNDATION DETAILS
S4. ABUTMENT & WINGWALL DETAILS I
S5. ABUTMENT & WINGWALL DETAILS II
S6. PRETRESSED GIRDER DETAILS
S7. DECK LAYOUT & SCREED ELEVATIONS
S8. DECK REINFORCING
S9. APPROACH SLAB DETAILS
S10. PARAPET WALL DETAILS
S11. RAILING DETAILS
S12. SIDEWALK BELOW DECK DETAILS
S13. STRUCTURAL STANDARD

PRELIMINARY

NOT TO BE USED FOR CONSTRUCTION

THE POSITION OF POLES, LINES, CONDUITS, WATERMAINS, SEWERS AND OTHER UNDERGROUND UTILITIES AND STRUCTURES IS NOT NECESSARILY SHOWN ON THE CONTRACT DRAWINGS, AND WHERE SHOWN, THE ACCURACY OF THE POSITION OF SUCH UTILITIES AND STRUCTURES IS NOT GUARANTEED. BEFORE STARTING WORK, THE CONTRACTOR SHALL INFORM HIMSELF OF THE EXACT LOCATION OF ALL SUCH UTILITIES AND STRUCTURES, AND SHALL ASSUME ALL LIABILITY FOR DAMAGE TO THEM.

No	DATE	DESCRIPTION	BY	CHKD

ISSUES / REVISIONS

CITY OF Guelph

ENGINEERING SERVICES

SPEEDVALE AVENUE

BRIDGE REPLACEMENT OVER SPEED RIVER

GENERAL ARRANGEMENT

amec

SCALES:	CONSULTANT JOB No.
AS SHOWN	TP113025
DATE DRAWN: JUNE 2013	CITY CONTRACT No. X
DRAWN BY: C.B. / CHECKED BY: K.A.	DRAWING No. S1 / REV. 0

DRAWING IN PROGRESS
WAIT FOR DESIGN

AutoCAD drawing: P:\Work\TP113025\STR\Dwg\Contract\TP113025-S1.dwg Oct 27/16 11:27am markus.eisenbart