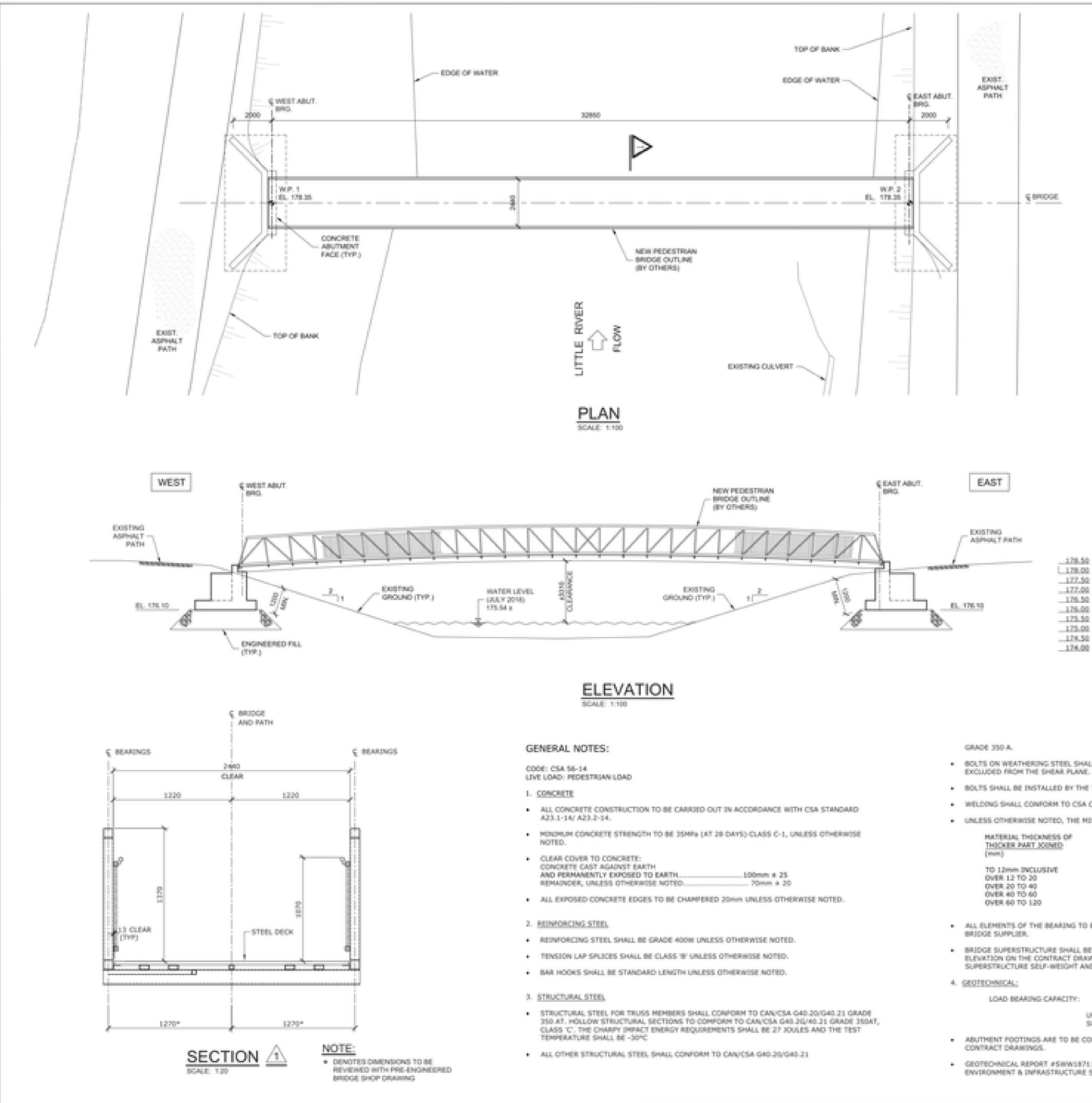


Appendix F

Design Drawings



- BOLTS SHALL BE INSTALLED BY THE TURN OF NUT METHOD.
- WELDING SHALL CONFORM TO CSA CAN3-W59-13 AND AIRS D.1.5.

- SUPERSTRUCTURE SELF-WEIGHT AND SUPERIMPOSED DEAD LOADS.

- ENVIRONMENT & INFRASTRUCTURE SOLUTIONS.

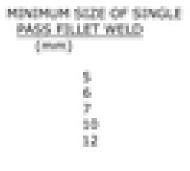


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WP.1	4679036.249	326677.126
WP.2	4653583.842	396139.310

BOLTS ON WEATHERING STEEL SHALL BE ASTM A325M, TYPE 3. BOLT THREADS SHALL BE

WORKING POINT DATA

UNLESS OTHERWISE NOTED, THE MINIMUM FILLET WELD SHALL BE AS FOLLOWS:



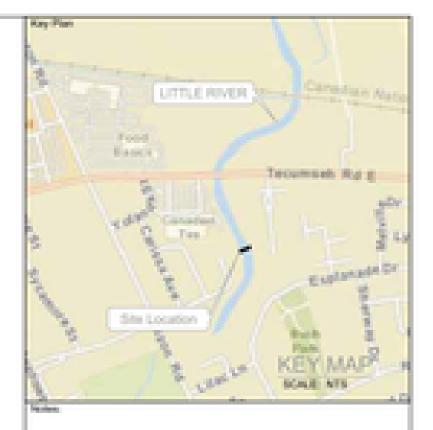
ALL ELEMENTS OF THE BEARING TO BE DESIGNED BY EAGLE BRIDGE OR THE PRE-ENGINEERED.

 BAJDGE SUPERSTRUCTURE SHALL BE CAMBERED TO THE VALUE SHOWN ON THE DEVELOPED ELEVATION ON THE CONTRACT DRAWINGS AND SHALL INCLUDE AN ALLOBANCE FOR

ULS = 210 KPa 5LS = 140 KPa

ABUTHENT FOOTINGS ARE TO BE CONSTRUCTED ON 1/H ENGINEERED FILL AS SHOWN ON THE

GEOTECHNICAL REPORT #SINW187112 DATED AUGUST 29TH, 2018 COMPLETED BY WOOD



- PONY TRUSS BRIDGE SUPERSTRUCTURE DESIGN IS PROVIDED SCHEMATICALLY ONLY. THE CONTRACTOR SHALL DESIGN, SUPPLY AND INSTALL THE PONY TRUSS BRIDGE SUPERSTRUCTURE: STAMPED SHOP DRAWINGS SHALL BE SUBMITTED TO THE CONTRACT ADMINISTRATOR FOR REVIEW PRIOR TO FABRICATION.
- PONY TRUSS BRIDE SHALL BE DESIGNED IN ACCORDANCE WITH THE CANADIAN HIGHWAY BRIDGE DESIGN CODE CAN/CSA 56-14.
- THE ABUTMENT ARRANGEMENT AND DESIGN ARE BASED ON A PRE-ENGINEERED SUPERSTRUCTURE DESIGN BY EAGLE BRIDGE. THE CONTRACTOR WILL BE RESPONSIBLE FOR ALL COSTS FOR THE CONSULTANT TO REDESIGN THE ABUTHENTS AND AMEND THE CONTRACT DOCUMENTS SHOULD ANOTHER PRE-ENGINEERED BRIDGE SUPPLIER BE UTILIZED.
- ALL WORK SHALL CONFORM TO CHROC AND ALL STANDARDS REFERENCED WITHIN LOCAL REGULATIONS AND BYLAWS AND THE OCCUPATIONAL HEALTH AND SAFETY ACT FOR CONSTRUCTION PROJECTS. THE LATEST VERSIONS OF THE STANDARDS SHALL APPLY.
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- THE CONTRACTOR SHALL ENSURE THE STABILITY OF ALL COMPONENTS DURING HANDLING, TRANSPORTATION AND ERECTION.
- THE ABUTMENT FOOTING BEARING SURFACE. MUST BE INSPECTED BY A COMPETENT GEOTECHNICAL ENGINEER OR THEIR REPRESENTATIVE TO CONFIRM THE BEARING SURFACE. THE FOOTING SHALL BEAR ON THE ENGINEERED FILL AS SHOWN ON THE CONTRACT DRAWSNOS.
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- 10. GRADES SHOWN ARE APPROXIMATE, FINISHED GRADE IS TO BE APPROVED IN THE FIELD BY THE ENGINEER.
- 11. WHERE EXISTING CONDITIONS ARE SHOWN AND THEY ARE NOT NECESSARILY ACCURATE OR COMPLETE, THE CONTRACTOR SHALL CONFIRM ALL EXISTING DIMENSIONS AND LOCATIONS.

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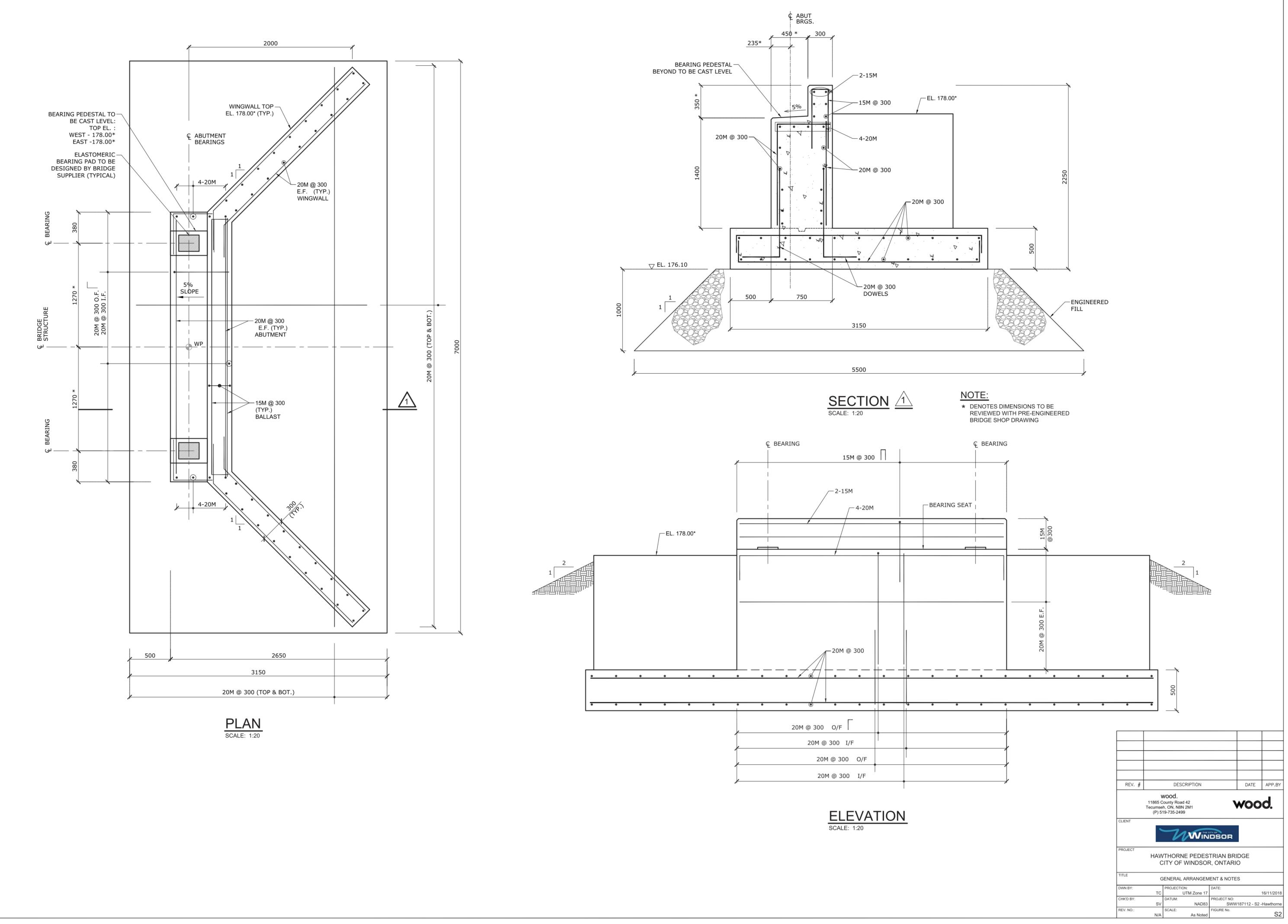
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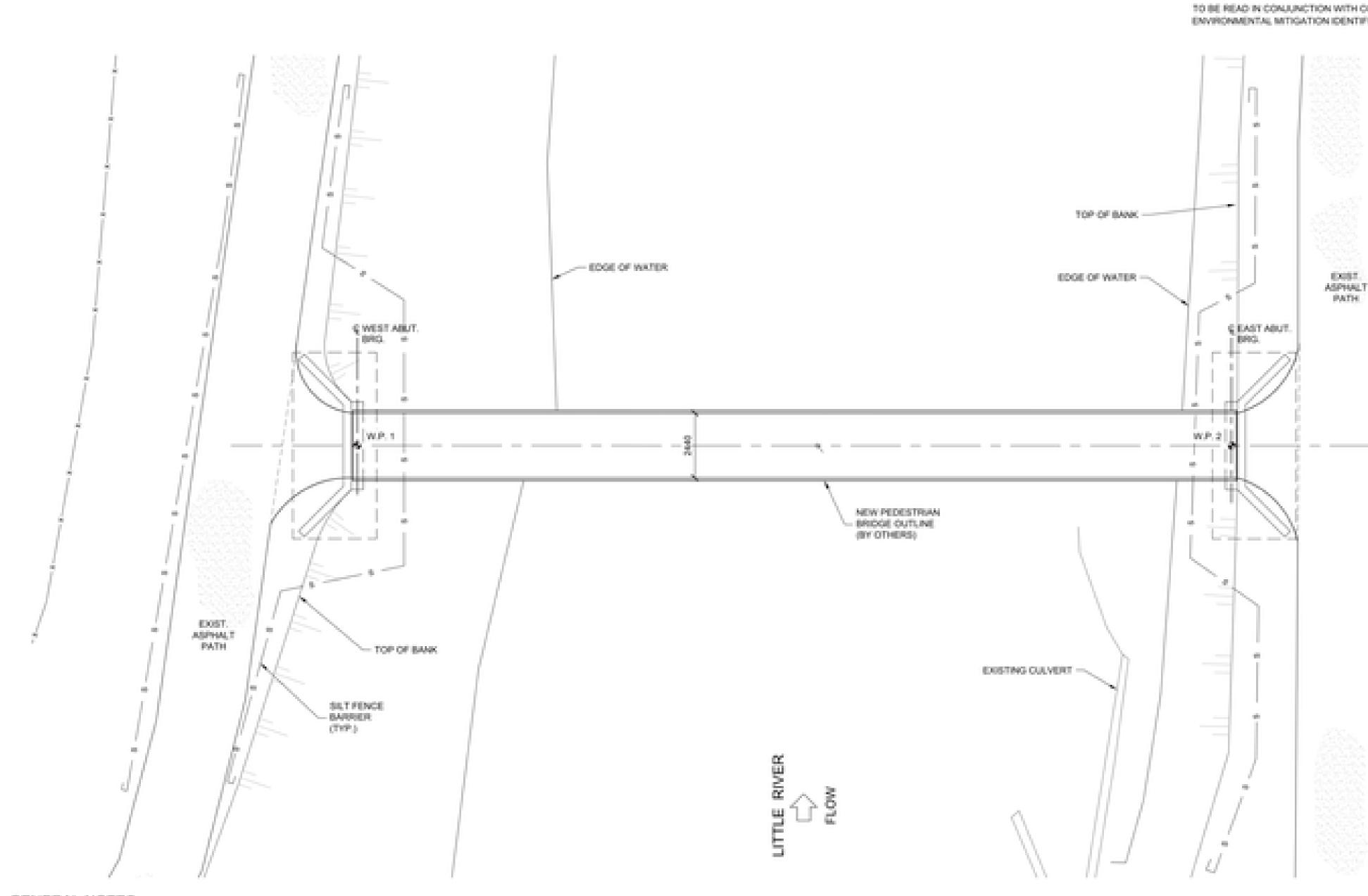
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HAWTHORNE PEDESTRIAN BRIDGE CITY OF WINDSOR, ONTARIO

GENERAL ARRANGEMENT & NOTES				
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GENERAL NOTES:

- NO ADDESS TO THE NATURAL SHORELINE AND AREAS ADJACENT TO THE LITTLE RIVER. BEYOND THE ABUTMENT EXCAVATION.
- 2. OPERATE, STORE, AND MAINTAIN EQUIPMENT, VEHICLES, AND ASSOCIATED MATERIALS IN A MAANER THAT PREVENTS THE ENTRY OF ANY DELETERIOUS SUBSTANCE FROM ENTERING THE LITTLE RIVER.
- 3. MPLEMENT DRIP PANS UNDER MACHINERY (LE. GENERATORS, PUMPS, ETC.) IN
- OPERATION INTHIN THE WORK AREA. 4. ANY RE-FUELING IS TO BE UNDERTAKEN AT LEAST 30 M FROM THE LITTLE RIVER AND ANY OTHER SURFACE DRAINAGE FEATURE.
- 5. TEMPORARILY STORE, HANDLE AND DISPOSE OF ALL MATERIALS USED OR GENERATED (E.G. ORGANICS, SOLS, CONSTRUCTION WASTE AND DEBRIS, ETC.) DURING SITE PREPARATION, CONSTRUCTION, AND CLEAN-UP IN A MANNER THAT PREVENTS THERE ENTRY TO WATERCOURSE AND NATURAL ENVIRONMENT.
- ENSURE A SPUL MANAGEMENT PLAN (INCLUDING SPUL KIT MATERIALS, INSTRUCTIONS) REGARDING THER USE, EDUCATION OF STAFF, AND EMERGENCY CONTACT MUMBERS). IS PRESENT ON-SITE AT ALL TIMES FOR IMPLEMENTATION IN THE EVENT OF AN ACCIDENTAL SPILL ALL SPILLS ARE TO BE REPORTED TO THE ONTARIO MINISTRY OF THE ENVIRONMENT, CONSERVATION AND PARKS (MEOP) SPULLS ACTION CENTRE (SAC) AT 1_800-268-6060.
- 7. ENSURE THAT MACHINERY ARRIVES ON SITE IN A CLEAN CONDITION AND IS MAINTAINED FREE OF FLUID LEAKS, INVASIVE SPECIES AND MOXIOUS INEEDS.

EROSION AND SEDIMENT CONTROL:

- 1. LIGHT-DUTY SLT FENCE BARRIER TO BE INSTALLED AS SHOWN ON THE DRAWING, SLT FENCE TO ALSO BE INSTALLED AROUND ANY TEMPORARY STAGING/STORAGE AREA(5). SILT PENCE TO BE INSTALLED AS PER OPSS 805 AND OPSD 218-115. THE LAYOUT OF THE SUT FENCE AS DEPICTED ON THE DRAWING IS A MINIMUM ONLY AND MAY REQUIRE ADJUSTMENT TO SUIT SITE SPECIFIC CONDITIONS OR CHWAGES TO WORK OPERATIONS.
- 2. ALL DEWATERING DISCHARGE SHALL BE DIRECTED TO A FILTER BAG TO REMOVE SUSPENDED SEDMENT. THE FILTER BAG SHALL BE LOCATED IN AN AREA THAT IS SUFFICIENTLY VEGETATED, STABLE AND DOES NOT DISPLAY ANY EVIDENCE OF EROSION OR INSTABILITY. THE FLOW DISCHARGE PATH SHALL BE MONITORED FOR EVIDENCE OF EROSION DURING ACTIVE DEWATERING, ADDITIONAL MEASURES TO BE MPLEMENTED AS REQUIRED TO ENSURE WATER QUALITY MPACTS TO THE LITTLE RIVER ARE MINIMPED.
- 3. MEASURES ARE TO BE IMPLEMENTED TO CONTAIN AND STABILIZE WASTE WATERIAL (E.G., EXCAUNTION SPOLS, CONSTRUCTION IIIASTE AND MIXTERIALS), THE LOCATION OF ANY SUCH AREA SHALL BE ABOVE THE ORDINARY HIGH WATER MARK (CHIMA) OF THE LITTLE RIVER AND NOT WITHIN OR ADJACENT TO ANY SURFACE DRAINAGE. PEATORE.

- 141
- CONDITIONS.
- 44. ASPEEMENT WITH OPS5 804.

FISH AND FISH HABITAT:

24

- ANY SIGNIFICANT RISK OF IMPACTING FISH.
- 140

WILCOFE:

- PERCEIVED AS ASSOCUTES.

NOTE:

REGULAR INSPECTION AND MAINTENANCE OF PROFECTION MEASURES ARE TO BE UNDERTAKEN, MAINTENANCE AND CORRECTION ACTION TO BE COMPLETED AS REQUIRED TO MEET OPSS MS. ADDITIONAL MEASURES TO PROTECT THE WRITERCOURSE AND NATURAL ENVIRONMENT MAY BE REQUIRED BASED ON SITE

5. ALL NON-BIODEGRADABLE PROTECTIONS MEASURES ARE TO BE REMOVED ONCE THE SITE HAS BEEN STABILIZED WITH A DEVELOPED VEGETATIVE COVER. STABILIZATION WILL INCLUDE THE APPLICATION OF TOPSOIL AND NATIVE SEED MIX IN

TO PROTECT THE LOCAL FISH COMMUNITY OURING ORTICAL LIFE STAGES (I.E. SPAINING AND REARING, NO IN WATER WORK WILL BE PERMITTED FROM MARCH 215T TO JULY 15T IN ANY GRIEN YEAR. IN-HILFER WORK IS DEFINED AS ALL WORKS POLLOWING EARTH DISTURBANCE ALONG THE EMBAINOMENT IN PREPARATION FOR ABUTMENT EXCAUNTION TO BACKFILL, GRADNO AND EMBARKMENT STABLIZATION WITH TOPSOL AND SEED'. THE ERECTION OF THE BRIDGE SUPERSTRUCTURE CAN BE COMPLETED OUTSIDE OF THE TIMING RESTRICTION AS THIS WORK DOES NOT POSE

ALL CONCRETE WASHOUTS SHALL BE UNDERTAKEN WITHIN A DESIGNATED AREA AND SECURED AREA IN THE TEMPORARY STAGING/STORAGE AREA. CONCRETE WASHOUT WILL NOT BE PERMITTED ADJACENT TO OR WITHIN PROXIMITY TO THE WRITERCOURSE. ALL PROJECT RELATED WORKS ARE TO BE UNDERTAKEN IN COMPLIANCE WITH OPIS.

1. RENOVAL OF INCOCY VEGETATION IS TO OCCUR OUTSIDE OF THE MIGRATORY BIRD NESTING PERIOD (APRIL 1 TO AUGUST 15) AND ACTIVITIES WILL OCCUR IN ACCORDANCE WITH THE MIGRATORY BRDS CONVENTION ACT (MBCA) AND MIGRATORY BIRD REGULATIONS. THESE TIMING CONSTRAINTS SHOULD NOT BE

FOR ACTIVITIES WHICH MAY OCCUR DURING THE BIRD NESTING SEASON, SURVEYS TO IDENTIFY NESTING ACTIVITY WILL BE COMPLETED BY A QUALIFIED AVAIN BIOLOGIST WITHIN 48 HOURS OF SCHEDULED WORK ACTIVITIES. THE AVAIL BOLOGIST

CONDUCTING THE SUBJEYS MUST BE ABLE TO IDENTIFY BRDS BY SPECIES AND BE KNOWLEDGEABLE OF MESTING SEASONS AND ACTIVITIES FOR APPROPRIATE SPECIES. 3. IF NESTING ACTIVITY IS DETECTED INTHIN THE WORK AREA, ACTIVITIES WHICH NRV POTENTIALLY IMPACT THE NEST HILL NOT BE UNDERTAKEN.

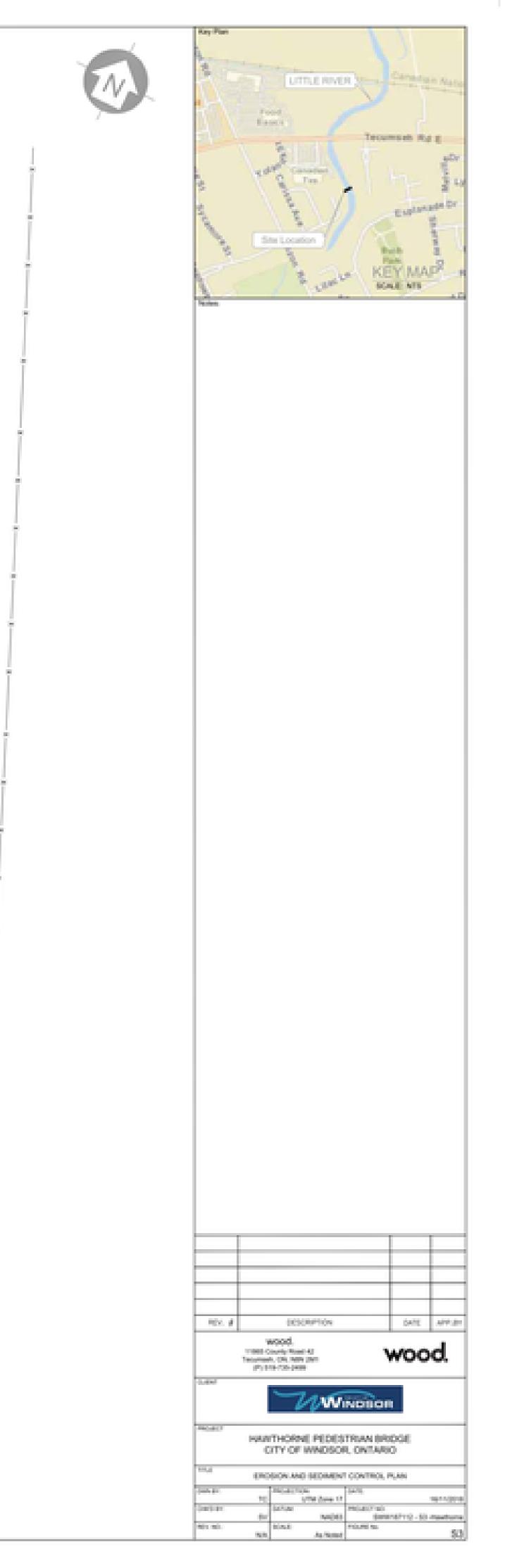
SPECIES AT RISK

5. IF A SAR SPECIES IS ENCOUNTERED. IT SHOULD BE GIVEN ADEQUATE TIME TO LEAVE THE AREA BEFORE STARTING WORK, IF A SAR SPECIES MUST BE MOVED, A QUALIFIED BIOLOGIST SHOULD BE CONTACTED FOR ADVICE HELP BEFORE IT IS MOVED.

- 2. ANY SAR INDIVIDUAL THAT IS PRESENT AT THE PROJECT SITE SHOULD BE REPORTED TO THE MARE AN MER DISTRICT STAFF (\$19-713-475) OR ESA AV MERGONTARIO CA. INITHIN 48 HOURS OF THE OBSERVATION OR THE NEXT WORKING DAY, WHICHEVER COMES FIRST.
- 3. IF AN INJURED OR DECEASED SAR IS FOUND OR A SAR INDIVIDUAL IS ACCIDENTALLY UNEARTHED FROM OVERWINTERING, THE SPECIMEN MUST BE PLACED IN A NON-ARTIGHT CONTAINER THAT IS MAINTAINED AT AN APPROPRIATE TEMPERATURE. AND A INLOUFE CUSTOOWN SHOULD BE CONTACTED. IMARE MUST BE CONTACTED.
- IMMEDIATELY AFTER THE OCCURRENCE. DIGGINGEXCAUATION ACTIVITIES AND VEGETATION CLEANING SHOULD BE CONDUCTED BEFORE MARCH 30TH OR AFTER JUNE 1ST. IF THIS IS NOT POSSIBLE, THE AREA TO BE EXICAVIATED CLEARED OF VEGETATION MUST BE WALKED AND VISUALLY SURVEYED FOR THE PRESENCE OF SAR SAVKES EACH DAY PROR TO (RE)INITIATING. THESE ACTIVITIES.
- 5. TEMPORARY SNAKE BARRIER FENCING (SLT FENCE) SHOULD BE INSTALLED AS DEPICTED ON THE DRAINING AND ALONG THE LIMITS OF THE CONSTRUCTION FOOTPRINT IN ORDER TO EXCLUDE SNAKES FROM ENTERING THE AREA. FENCING MUST ALSO BE PLACED AROUND THE FULL PERMETER, INCLUDING ACCESS POINTS. OF ANY TEMPORARY STAGING AND STORAGE AREA/S). FENONG AT ACCESS POINTS CAN BE TEMPORARLY REPOSITIONED DURING THE DAY WITH FULL CLOSURE TO BE RE-INSTATED AT THE END OF THE WORKING DAY.
- 6. FENCING MATERIAL, INSTALLATION AND MAINTENANCE SPECIFICATIONS ARE TO ADHERE TO MARE SPECIES AT RISK BRANCH - BEST PRACTICES TECHNICAL NOTE -
- REPTILE AND AMPHIBIAN EXCLUSION FENCING. VERSION 1.1 LAUY 2013L FENCING, INCLUDING LIGHT OUTY SILT FENCE BARRIER, MUST NOT INCLUDE ANY SUPPORTIVE MESH OR NETTING MATERIAL.
- 8. CONSTRUCTION EQUIPMENT TWAT IS LEFT IOLE FOR OVER ONE (1) HOUR OR IS PARKED OVERNIGHT ON THE PROPERTY SHOULD BE SUBJECTED FOR THE PRESENCE OF SAR SNAKES BEFORE (RE)GNITION. THIS VISUAL EXAMINATION SHOULD INCLUDE ALL LOWER COMPONENTS OF THE MACHINERY, INCLUDING OPERATIONAL EXTENSIONS AND RUNNING GEAR.

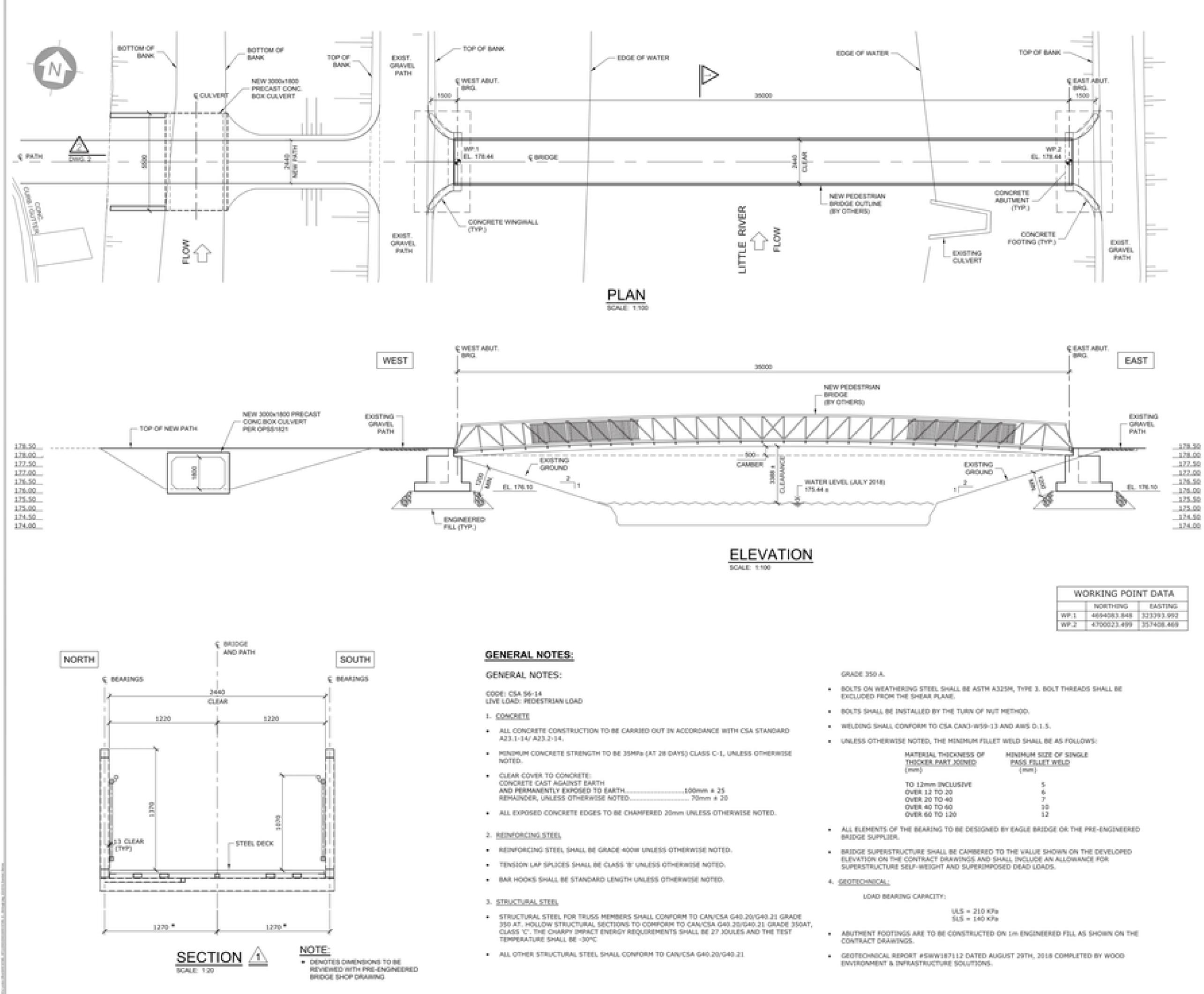
APPLICABLE STANDARD ORAININGS:

ALL ESC MEASURES SHALL BE IMPLEMENTED IN AGREEMENT WITH THE RELEVANT OP55/OP50.



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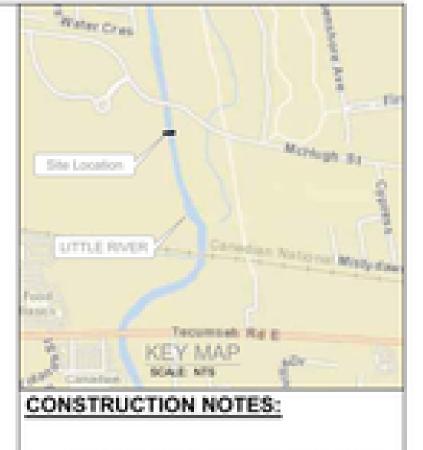
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WF.2	4700023.499	357408.469		



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