PRELIMINARY DESIGN CHECKLIST – TEMPORARY BRIDGE

County:_____ Design No.:____ Check By:_____ Date:____ Project Location: _____ Consultant: PROVIDE ADEQUATE TOE PROTECTION **GENERAL** (REVETMENT). In addition to the items in this checklist, the Preliminary Design – Bridge checklist items shall also THE CONTRACTOR'S REVETMENT DESIGN be reviewed for applicability. SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW IN ADVANCE OF INSTALLATION, IN **PLAN View** ACCORDANCE WITH STANDARD SPECIFICATION 1105.03. Dimension the minimum allowable roadway width WORK ASSOCIATED WITH FURNISHING AND Dimension the minimum allowable overall bridge clear PLACING REVETMENT FOR THE TEMPORARY span length BRIDGE SHALL BE CONSIDERED INCIDENTAL TO THE TEMPORARY BRIDGE SUBSTRUCTURE PAY ITEM. LONGITUDINAL SECTION Label the minimum allowable low beam elevation **Plan Notes** Dimension the maximum allowable superstructure depth (based on the roadway profile) Plan Notes should remain on the final temporary bridgeTS&L. Example notes: If applicable, show the maximum allowable number of (This note is to be placed in the upper left corner of the first sheet) THE TEMPORARY BRIDGE IS SCOUR CRITICAL. WHEN THE TEMPORARY HYDRAULIC DATA BLOCK BRIDGE IS INSTALLED, THE CONTRACTOR SHALL NOTIFY THE PRELIMINARY DESIGN Include Minimum Low Beam Elevation OFFICE AT 515-239-1487 SO A FLOOD MANAGEMENT PLAN CAN BE DEVELOPED IN Include discharge and elevation at which the roadway ADVANCE OF THE TEMPORARY BRIDGE BEING will be overtopped PLACED INTO SERVICE. UPON NOTIFICATION, THE DOT WILL ADD THIS SITE TO THE BRIDGE WATCH MANAGEMENT PLAN FOR MONITORING. **Design Notes** THE ENDS OF THE TEMPORARY BRIDGE SHALL Design Notes shown on the TS&L are intended to inform the BE PROTECTED. THE PROTECTION SYSTEM final bridge designer of design decisions and other SHALL BE OF THE CONTRACTOR'S CHOOSING requirements. The final designer shall delete these notes AND DESIGN. REFER TO THE SPECIAL from the final TS&L. Example notes: PROVISIONS FOR TEMPORARY BRIDGE THE FINAL DESIGNER SHALL COORDINATE WITH PROTECTION REQUIREMENTS. ROAD DESIGN REGARDING THE BRIDGE SUBSTRUCTURE ELEMENTS ARE SHOWN FOR APPROACH PAVEMENT DETAILS AND SHALL ILLUSTRATION ONLY. THE SUBSTRUCTURE INCORPORATE APPROACH PAVEMENT TYPE AND DESIGN SHALL BE OF THE SUPPORT REQUIREMENTS INTO THE SPECIAL CONTRACTOR'S CHOOSING AND DESIGN. SEE PROVISIONS. THE SPECIAL PROVISIONS FOR TEMPORARY SPECIAL PROVISIONS TO INCLUDE: BRIDGE. REVETMENT REQUIREMENTS BRIDGE OUT TO OUT MAY VARY DEPENDING ON THE VENDER DESIGN. THE FLOW AREA THROUGH THE BRIDGE BELOW ELEVATION "xx" SHALL BE NO LESS THAN "XXXX" THE LOW SUPERSTRUCTURE ELEVATION SHALL SF. THIS MINIMUM FLOW AREA IS BASED ON BE SET AT OR ABOVE ELEVATION "XXXX.XX". (CLEAR SPAN, "XX" SLOPE FOR SPILL THROUGH A "XX" INCH MAXIMUM SUPERSTRUCTURE ABUTMENT. THE ADEQUACY OF THE PROVIDED DEPTH WAS ASSUMED TO DETERMINE THE LOW FLOW AREA SHALL BE VERIFIED BY FIELD SUPERSTRUCTURE ELEVATION. IF THE MEASUREMENT AND APPROVED BY THE CONTRACTOR CHOOSES A BRIDGE SYSTEM ENGINEER BEFORE THE TEMPORARY BRIDGE IS WITH A DEEPER SUPERSTRUCTURE. THE OPEN TO TRAFFIC.

Date: 8-1-2021

VERTICAL ABUTMENTS MAY PROVIDE AN

SPILLTHROUGH ABUTMENTS, BUT MUST

INCREASE IN FLOW AREA VERSES

CONTRACTOR WILL NEED TO FIELD ADJUST THE

ROADWAY UPWARD TO KEEP THE LOW BEAM

AT OR ABOVE THE SPECIFIED ELEVATION.

PRELIMINARY DESIGN CHECKLIST – TEMPORARY BRIDGE

Date: 8-1-2021

THE TEMPORARY BRIDGE WILL BE LIMITED TO LEGAL LOADS. VERTICAL (SHEET PILE) OR SPILL THROUGH ABUTMENTS MAY BE CONSIDERED BY THE CONTRACTOR. FOR THIS REASON, THE REVETMENT PROTECTION SHALL BE OF THE CONTRACTOR'S CHOOSING AND DESIGN. REINFORCED PCC BRIDGE APPROACH PAVEMENT IS REQUIRED FOR THE TEMPORARY BRIDGE. REFER TO THE ROAD SHEETS FOR THE APPROACH PAVEMENT DETAILS. THE APPROACH PAVEMENT SHALL BE SUPPORTED AT THE TEMPORARY BRIDGE ABUTMENTS. REFER TO THE SPECIAL PROVISIONS FOR TEMPORARY BRIDGE TO REVIEW THE SUBSTRUCTURE REQUIREMENTS.