ANCHORED & UNCONNECTED CONCEPT

1500 LG DFJP UNTREATED TIMBER (NOM 150x150 OR 150x150, WITH WIDTH TRIMMED AS REQ'D TO Fill LATERAL GAP BETWEEN CRB & TOP CONC. BLOCK)

250 ASTM A193 B7 THREADED ROD C/W STD. WASHER & NUT TO MATCH B7 (2 RODS TOT) LOCATED AT LONGIT. 5 OF EACH BASE BLOCK, EMBEDDED 210 INTO EACH BASE BLOCK WITH HILTI HIT HY-200 (OR MINISTRY APPROVED EQUIV.)

BASE BLOCKS WITH 2 KEYS \& 1/2 FLAT TOP

NOTE: ONLY LAYOUT OPTION 1 REQUIRES A GAP FILLING TIMBER

ANCHORED & CONNECTED CONCEPT

BASE BLOCKS WITH 1/2 KEY & 1/2 FLAT TOP

NOTE: ONLY LAYOUT OPTION 1 REQUIRES A GAP FILLING TIMBER

DELINEATOR AT END OF LAST BARRIER (TYP)

DELINEATOR AT END OF LAST BARRIER (TYP)

STANDARD BC NOT CONCRETE ROADSIDE BARRIERS: NUMBER, ANGLE, LAYOUT, AND TYPES TO BE SPECIFIED BY A PROFESSIONAL ENGINEER

BASE BLOCKS WITH 1/2 KEY & 1/2 FLAT TOP - SECTION : CONC. LAYOUT - OPTION 1

ANCHORED & CONNECTED BRIDGE APPROACH BARRIER CONCEPTS

REVISIONS

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STANDARD BRIDGE DRAWING

NOTES

1.0  GENERAL

- THE PROFESSIONAL ENGINEER RESPONSIBLE FOR PRESCRIBING MINISTRY STANDARD BRIDGE APPROACH BARRIERS, AS SHOWN ON THESE DRAWINGS, MUST EVALUATE THE SUITABILITY OF THEIR USE BASED ON AN ASSESSMENT OF THE SPECIFIC BRIDGE CHARACTERISTICS, ROAD ALLOWSMNT AND SITE CONDITIONS.

- WHERE THESE DRAWINGS SHOW CONNECTION BETWEEN BRIDGE GUARDRAIL AND APPROACH BARRIER, THEY SHOULD BE READ TOGETHER WITH STD-EC-010-02 "STANDARD BRIDGE GUARDRAIL-SS RAIL CL-3", OR STD-EC-010-03 "STANDARD BRIDGE GUARDRAIL-SS RAIL-CL-3", OR STD-EC-010-06 "STANDARD SS GUARDRAIL FOR PRECAST CONCRETE SLAB BRIDGES CL-3".

- PROFESSIONAL ENGINEERS SHALL REFER TO THE MINISTRY’S APPROACH BARRIER GUIDELINES IN RELATION TO USE OF THESE DRAWINGS.

2.0  MATERIALS

- HSS: FY Mn. 350Mpa, CSA G40.21M OR ASTM A500 GRADE C

- PLATE: FY Mn. 300W OR 350W, CSA G40.21M

- BOLTS: ASTM A490

- VERTICAL THROUGHS: ASTM A615 GR75 THREADED BAR, C/W NUTS TO MATCH STRENGTH AND THREAD TYPE

- UNTHREADED ROUND BAR: ASTM A36

- NUTS: ASTM A563, UNLESS NOTED OTHERWISE (UNO)

- STANDARD WASHERS: ASTM F844, UNO

- OVERSIZED PLATE WASHERS: MILD STEEL (J.O. - 22M > BOLT DIAMETER)

- ALL EXPOSED STEEL MATERIALS, INCLUDING HARDWARE, SHOWN GALVANIZED TO CSA G164, MIN. 650 g/m2, OR ASTM A523, UNLESS OTHER COATING SPECIFICATIONS ARE PROVIDED BY THE MINISTRY.

- ALL STEEL TO BE GALVANIZED SHALL MEET CHEMICAL COMPOSITION RECOMMENDATIONS AS SPECIFIED BY THE AMERICAN GALVANIZERS ASSOCIATION (https://www.galvanizeit.org/) TO ENSURE AGAINST EMBRITTLEMENT.

- CONCRETE BLOCKS AND CONCRETE ROADSIDE BARRIERS (CRB) IN ACCORDANCE WITH THE MINISTRY’S "BRIDGE COMPONENT CONCRETE STANDARD":

http://www2.gov.bc.ca/assets/gov/farming-natural-resources-and-industry/natural-resources/resource-roads/bridge-design-construction/brochurestandt.pdf

- TOP KEYS & BOT. KEY VOIDS OF CONC. BLOCKS, PLUS BOT. KEY VOIDS OF MODIFIED CRB-E, WILL VARY ACCORDING TO SUPPLIER. INTERLOCK PATTERN & GEOMETRY MUST BE APPROVED BY THE MINISTRY.

- MIN. FILLET WELD SIZE=4mm UNO

- BOLT HOLE DIAMETERS: 2mm > BOLT DIAMETER, UNO

- NUTS SHALL BE SNUFF BENT (THE CONDITION THAT BRINGS THE PLEAS INTO FIRM CONTACT COMMONLY ATTAINED BY A FEW IMPACTS OF AN IMPACT WRENCH, OR THE FULL FORCE OF AN IRONWORKER USING AN ORDINARY SPUD WRENCH).

- BASE CONCRETE BLOCKS AND THE BARRIERS CONNECTED TO THEM SHALL BE PLACED ON A COMPETENT, FIRM AND LEVEL GRANULAR BASE WITH MINIMAL ANTICIPATED SETTLEMENT IN RELATION TO THE BRIDGE END. SPECIFICATIONS FOR THE BASE SHALL BE DETERMINED BY THE PROFESSIONAL ENGINEER, INCLUDING REQUIRED COMPACTION OF FILLS, AND FIELD INSPECTIONS DURING CONSTRUCTION.

- THE SUPPLIER OF MATERIALS (CONTRACTOR) SHALL ENSURE THAT ALL COMPONENTS WILL ASSEMBLE ACCURATELY AND EFFICIENTLY.