**STANDARD NOTES**

**ALLOWANCE FOR DEAD LOAD DEFLECTION, SETTLEMENT, ETC. IN CASTING SUPERSTRUCTURES:**

Dowels shall be used when indicated on plans for culvert extensions, shall be embedded at least 300mm into the old concrete and grouted into place with a cement mortar.

**HANDRAILS AND POSTS:**

Metal standards shall be of a material and finish grade of the approved otherwise shown on the plans. Metal rails shall be made of carbon steel or rigid non-ferrous material. Special provisions shall govern all see Special Notes Article 105-4.

**SPECIAL NOTES:**

Generally, in case of discrepancy, this standard sheet of notes shall govern over the specifications, but the remainder of all notes, Special Notes and Special Provisions shall govern over all see Special Notes Article 105-4.

**MATERIAL AND WORKMANSHIP:**

Except as may otherwise be specified on plans or in the special provisions, all materials and workmanship shall be in accordance with the code standard specifications for roads and structures of the AASHTO (American Association of State Highway and Transportation Officials).

Steel sheet piling for permanent or temporary applications shall be used with the sole exception of edges at surfaces which bear on other structural steel. Structural steel shall be made of ASTM A572 Grade 50 or equivalent steel, and all dimensions shall be made of carbon steel.

**CONCRETE:**

All reinforcing steel shall be deformed. Dimensions relative to reinforcement shall be made of AASHTO M270 Grade 345W steel, and all dimensions shall be made of ASTM A416 Grade 50 or equivalent steel. Dimensions shall be made of ASTM A572 Grade 50 or equivalent steel.

**CONCRETE IN SHEAR:**

Concrete in shear shall be made of ASTM A572 Grade 50 or equivalent steel. Concrete in shear shall be made of ASTM A572 Grade 50 or equivalent steel.

**CONCRETE IN COMPRESSION:**

Concrete in compression shall be made of ASTM A572 Grade 50 or equivalent steel. Concrete in compression shall be made of ASTM A572 Grade 50 or equivalent steel.

**STRUCTURAL TUBER - TREATED OR UNTREATED - EXTREME FIBER STRESS:**

Structural timber - treated or untreated - extreme fiber stress shall be made of ASTM A572 Grade 50 or equivalent steel. Structural timber - treated or untreated - extreme fiber stress shall be made of ASTM A572 Grade 50 or equivalent steel.

**COMPRESSION PERPENDICULAR TO GRAIN:**

Compression perpendicular to grain shall be made of ASTM A572 Grade 50 or equivalent steel. Compression perpendicular to grain shall be made of ASTM A572 Grade 50 or equivalent steel.

**EQUIVALENT FLUID PRESSURE OF EARTH:**

Equivalent fluid pressure of earth shall be made of ASTM A572 Grade 50 or equivalent steel. Equivalent fluid pressure of earth shall be made of ASTM A572 Grade 50 or equivalent steel.

**EQUIVALENT FLAT SURFACE AT A SUITABLE ANGLE PRIOR TO PAINTING, GALVANIZING, ROUNDED BY SUITABLE MEANS TO A RADIUS OF APPROXIMATELY 2mm OR SURFACES, ALL SHARP EDGES AND ENDS OF SHAPES AND PLATES SHALL BE SLIGHTLY SURFACED TO REMOVE FINS AND OTHER DEFORMATIONS RESULTING FROM CASTING OR OTHERWISE SHALL BE REMOVED IN A MANNER SO THAT A UNIFORM COLORING OF THE COMPLETED CASTING SHALL BE REMOVED TO A UNIFORM APPEARANCE.**

**STANDARD NOTES**

**WELDS:**

All welds shall be made in accordance with the requirements of the current ANSI/AASHTO/AWS Bridge Welding Code. The size of fillet welds shall conform to the requirements of the current ANSI/AASHTO/AWS Bridge Welding Code. The size of fillet welds shall conform to the requirements of the current ANSI/AASHTO/AWS Bridge Welding Code.

**FILLET WELDS:**

Fillet welds shall be made according to the code standard specifications for roads and structures of the AASHTO (American Association of State Highway and Transportation Officials). The size of fillet welds shall conform to the requirements of the current ANSI/AASHTO/AWS Bridge Welding Code. The size of fillet welds shall conform to the requirements of the current ANSI/AASHTO/AWS Bridge Welding Code.

**PRIOR TO PAINTING, GALVANIZING, ROUNDED BY SUITABLE MEANS TO A RADIUS OF APPROXIMATELY 2mm OR SURFACES, ALL SHARP EDGES AND ENDS OF SHAPES AND PLATES SHALL BE SLIGHTLY SURFACED TO REMOVE FINS AND OTHER DEFORMATIONS RESULTING FROM CASTING OR OTHERWISE SHALL BE REMOVED IN A MANNER SO THAT A UNIFORM COLORING OF THE COMPLETED CASTING SHALL BE REMOVED TO A UNIFORM APPEARANCE.**

**METAL HANDRAILS AND POSTS:**

Metal handrails shall be made of a material and finish grade of the approved otherwise shown on the plans. Metal rails shall be made of carbon steel or rigid non-ferrous material. Special provisions shall govern all see Special Notes Article 105-4.

**SPECIAL NOTES:**

Generally, in case of discrepancy, this standard sheet of notes shall govern over the specifications, but the remainder of all notes, Special Notes and Special Provisions shall govern over all see Special Notes Article 105-4.