

SECTION 452

REINFORCED CONCRETE SLOTTED WEIR FISH BAFFLES

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452.01 SCOPE

This specification covers the requirements for the construction of reinforced concrete slotted weir fish baffles. The baffles, incorporating galvanized steel anchor bolts and reinforcing steel, shall be as shown on Form 1222-1 and shall be installed at specified distances along the corrugated steel pipe as indicated in the contract documents and to the satisfaction of the Owner's Representative.

452.02 MATERIALS

452.02.1 Galvanized Anchor Bolts

Type ASTM F3125M Anchor bolts and associated hardware shall be hot dipped galvanized in accordance with CSA G164.

The Contractor shall supply all galvanized anchor bolts and associated hardware required to anchor the concrete baffles to the corrugated steel pipe. Supplied anchor bolts and associated hardware shall be as shown in Form 1222-1.

452.02.2 Concrete

Concrete for use in constructing baffles shall be supplied by the Contractor and shall meet the specification for "Curb, Gutter, Sidewalks, Catch Basins, & Weir Baffles" concrete, in accordance with Section 904.

452.02.3 Reinforcing Steel

Reinforcing steel shall be of the sizes and configuration detailed in Form 1222-1.

Reinforcing steel shall conform to all requirements of Section 905.

452.03 UNWATERING

The Contractor is advised that all work required to install the concrete baffles shall be carried-out in the dry.

All unwatering shall be carried out in accordance with Section 180.

All work shall be in compliance with Division 8 and any additional requirements stipulated in any permits issued by applicable regulatory agencies.

452.04 FORMWORK

Formwork shall be supplied by the Contractor and shall conform to the requirements of Section 907.

452.05 PLACING OF REINFORCING STEEL

Reinforcing steel shall be placed in accordance with the requirements of Section 905.

452.06 PLACING CONCRETE AND GALVANIZED ANCHOR BOLTS

Concrete shall be placed in accordance with the requirements of Section 904.

Anchor bolts shall be installed as detailed on Form 1222-1.

452.07 CURING THE CONCRETE

Concrete shall be cured in conformity with the requirements of Section 904.

452.08 MEASUREMENT FOR PAYMENT

Measurement for payment for “Reinforced Concrete Slotted Weir Fish Baffles” shall be calculated from the dimensions of the concrete baffles as laid out according to the instructions of the Owner’s Representative and such measurements will be computed to obtain the volume in cubic meters, rounded to one decimal place.

No deductions will be made from the volume of concrete for reinforcing or anchorages.

Any concrete required to completely fill the corrugations below the crest of the corrugated steel pipe shall be considered incidental to this item and won’t be included in the total computed volume.

452.09 BASIS OF PAYMENT

Payment at the contract price for “Reinforced Concrete Slotted Weir Fish Baffles” shall be full compensation for all labour, materials, and equipment use: to access the worksite, supply and place formwork, to supply and install galvanized anchor bolts, to supply reinforcing steel, to protect and clean the reinforcing steel as required, to bend, cut and weld the reinforcing steel, to place the reinforcing steel in the work, to support the reinforcing steel during the placing, to supply and place concrete, to cure the concrete, and to remove the forms; together with labour, materials, and equipment use to provide such unwatering provisions that may be necessary in order to carry out the work according to these specifications.

It should be clearly understood, that the supply and placement of the reinforcing steel, anchor bolts and all associated hardware are included in the basis of payment for Reinforced Concrete Slotted Weir Fish Baffles.

452.10 CONCRETE ACCEPTANCE AND REDUCED PAYMENT CRITERIA ON REINFORCED CONCRETE SLOTTED WEIR FISH BAFFLES

Concrete baffles, as defined by the contract item and the required specified strength at 28 days, must have an average tested strength at 28 days equal to or greater than that specified for payment at the bid price.

Concrete of a lower strength will have section 904.11.03 apply for adjustment of the unit price applicable or judgement of the acceptability of the concrete placed for this item.