# CFB Shearwater Heliport Conversion

Application of Joint Heater system

### **Project Detials**

- New Construction of Taxiways
- Complete Reconstruction of Runway existing sub-base & base to remain.
- 1.08 km 34.2m wide.
- Asphalt Section 120mm 70/50

#### Transport Canada Specification

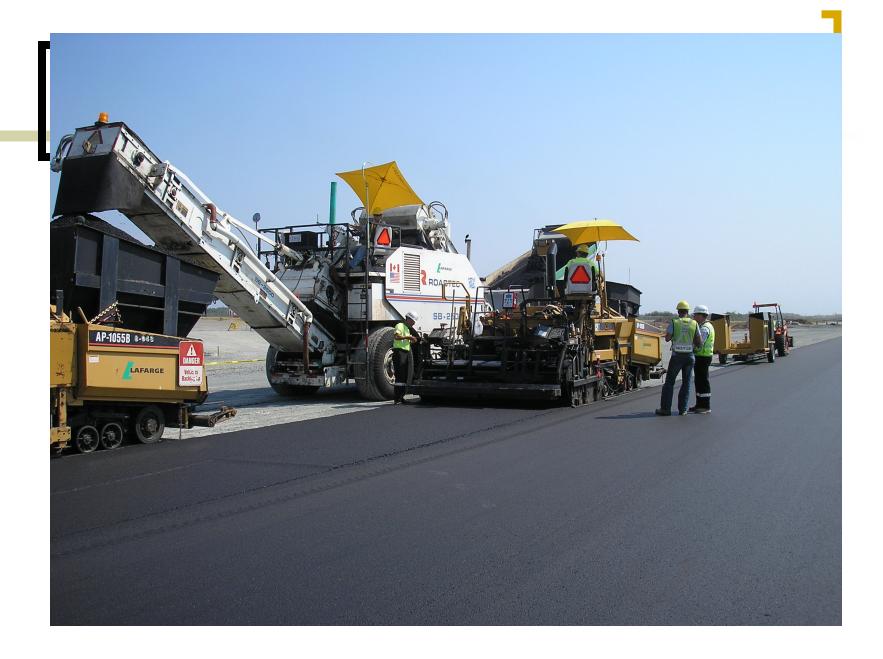
- 5mm finished grade tolerance
- 3mm 3m straightedge on all areas.
- 98% GMB Mat Compaction
- 97% GMB Joint Density
- Converted to 94% & 93% GMM
- Cut joint specs below 100°C

## Joint Heater

- Heat Design equipment
- 4-4ft elements in series
- Trailer Mounted 4-100lb Propane Cylinders.
- DCC accepted variation for "warm" joint upon outside trial.
- Must cut/mill overnight.







# Heater Performance

- Able to reheat joint from 60°C to 150°C at ½ capacity in summer.
- Reheat from cold to 100°C at 3°C and 30km winds.
- Able to reheat old pavement to workable to fix joints, drainage, make surface defect repairs.

#### Technical Performance

- Mat Density Base -94.4 Surface 95.1
- Heated Joints 94.1 no failures
- Cut joints 92.6 with failures.
- No mill & replace due to density or joint construction (visible)

#### **Financial**

- Purchase \$35,000
- Operation \$200/day +L&E
- Saved Approx 360mt Asphalt in cut joints= \$18,000.
- Cost less than \$0.15/m
- Significant operational savings. Days + clean-up costs.