ABSTRACT. We shall consider a locally compact groupoid endowed with a Haar system ν and having proper orbit space. We shall associate to each appropriate cross section $\sigma : G^{(0)} \to G^F$ for $d_F : G^F \to G^{(0)}$ (where F is a Borel subset of $G^{(0)}$ meeting each orbit exactly once) a C^*-algebra $M^*_\sigma(G, \nu)$. We shall prove that the C^*-algebras associated with different Haar systems are $*$-isomorphic.