

GENERAL NOTES

- Engineer for approval.
- construction joints.
- tractor's expense.
- with the approval of the Engineer.
- Barrier Guardrail.

NOTE:

The intent of the optional construction joint details for the Type 4 Rigid Barrier Guardrail is to provide a method of securing the forms and preventing uplift so that the barrier will have a uniform and presentable appearance.

The Contractor may submit an alternate method of constructing the barrier for the approval of the Engineer and for use on trial basis. Any unsatisfactory LEGEND FOR AS-BUILT POSTING work shall be removed or corrected as directed by the Squiggly line for as-built deletion ~~~~~ Engineer and at the Contractor's expense. =100:00= Double line for as-built deletion Text for as-built posting Roadway -Extend footing pour by 3 1/2"wider on each side, roughen surface STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION LICENSED PROFESSIONAL ENGINEER GUARDRAIL DETAILS TYPE 4, RIGID BARRIER KALANIANAOLE HIGHWAY MEDIAN IMPROVEMENTS VICINITY OF OLOMANA 3 1/2" APRIL 30, 2010 GOLF COURSE PROJECT NO. 72A-02-06 EXPIRATION DATE OF LICENSE CONSTRUCTION JOINT DETAIL THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION SCALE: NOT TO SCALE DATE: June 2008 SHEET No. C-18 OF 43 SHEETS

FED. ROAD DIST. NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	72A-02-06	2008	20	66

20

1. Precast Rigid Barrier Guardrail may be installed as an option to cast-in-place Type 4 Rigid Barrier Guardrail. Contractor shall submit shop drawings to

2. Expansion Joints shall be constructed at ninety-foot (90 ft.) maximum intervals and at existing expansion joints of structures. (Use 1/2" premolded joint filler, incidental to Type 4 Rigid Barrier Guardrail). Control Joints shall be placed between expansion joints at 30' maximum. Shear keys shall be required at all

3. The exterior surface and vertical alignment of the Type 4 Rigid Barrier Guardrail shall be constructed to give a uniform and presentable appearance. Variation of more than $\frac{1}{4}$ in 20' max. and $\frac{1}{2}$ in 40' or more will be considered objectionable. The Engineer will determine the acceptability of the work. During the course of the work, samples may be tested and measurements made to establish whether or not the specified values or dimensions are being met. If the specified values or dimensions are not being met, the Engineer will determine the degree of the non-conformance, the effect on the serviceability of the project, whether the work be accepted and remain in place and, if so, the amount to be paid for such work, or whether the work shall be removed and replaced or otherwise corrected at the Con-

4. Welded wire fabric of equivalent strength may be substituted for the barrier reinforcement in conformance with the applicable ASTM specifications and

5. See Sheet S3.4 for drainage slot opening details. Drainage slot openings are considered incidental to Type 4 Rigid

"AS-BUILT'