

Form number: PP122F-01

| NEW EQUIPMENT & SYSTEM APPROVAL PROFORMA Ref: 08-08-11-081 | | | | | |
|--|--|----------------------------|---|---|------------------------------------|
| syster | the prompts given below are only a guide to the information required for approval. Dependent on the tone that is not applicable or include additional information if necestred with an asterisk (*). | | | | elds |
| 1 | Equipment or System to be approved * | | | | |
| | Steel Level Crossings over HD Concrete sleepers for low traffic - Revised August 2007 | | | | |
| 2 | Originator * | | | | |
| | Name: Wayne Potter Company: ARTC | | | | |
| 3 | Introduction * | | | | |
| | Steel level crossings have shown to be a cost effective solution for both public and private volume road traffic in the past, e.g. Cocky's crossings with over 100 installations successfully Ref Equipment and System Approval 08-08-09-002. With the introduction of both the Rocla a sleepers, a change in design was necessary for the steel crossing to suit these sleepers. Steel ledesigned for 6m (two design alternatives - A and B), 9m and 12m lengths for each of the sleep total of 8 configurations. All designs have been checked by GHD in accordance with AS5100.2 (Design Loads. | con and evel eper | npleted Austrak crossing types r | in the p HD cor is have esulting | oast - icrete been g in a |
| 4 | Determination of Need * | | | | |
| | Due to the introduction of heavy duty concrete sleepers, a modified version of steel level crossi | ng is | require | d. | |
| 5 | Significant Change or Not (as determined by the Manager Standards) * | | | | |
| | This change in equipment or system is assessed as MINOR | | | | |
| 6 | Review Panel (as determined by the Manager Standards) * | | | | |
| | Manager Standards (acting) – Duncan McLeod Civil and Environmental Standards Engineer - Wayne Potter Civil Standards and Technical Services Engineer – Tim Calver | | | | |
| 7 | Performance and Suitability | | | | |
| | The steel level crossings designs have been checked by GHD in accordance with AS5100.2 (2 Design Loads. Refer to drawings for detail. | 2004 | l) Bridge | e Desig | n Pt2 |
| 8 | Approval * | | | | |
| | 23-11814 Steel level crossings (6m, 9m and 12m units) are approved for use by ARTC network | wid | e. | | |
| 9 | Conditions of Approval * | | | | |
| | No conditions | | | | 1.00 |
| 10 | | No | | N/A | |
| 11 | Sign off Suprider dis Co. | AF | RTC offi | ce use | only |
| | Review Panel: /// / Skanes Agranger, 5 | | | | |
| | Duncan McLeod M. A. Maritality Date: | 31/ | 18/07 |) | |
| | Wayne Potter Date: 2 | 29/ | 8/07 | | 2 |
| | Tim Calver S.S.Cul Date: 20 | 9/8 | 3/07 | | |

The following drawings are available on the SA Drawing Management System:

Steel Level Crossing - 6m (Design 1)

| Drawing # | Title |
|---------------|--|
| 23-11814-S001 | Cover Sheet & Drawing List |
| 23-11814-S002 | General Notes |
| 23-11814-S003 | Plan Layout & Details |
| 23-11814-S004 | Bearing Pad Details |
| 23-11814-S005 | Steel Crossing Plate Details |
| 23-11814-S010 | Bridging Unit Layout & Details |
| 23-11814-S011 | Bridging Unit Bearing Pad & Crossing Plate Details |

Steel Level Crossing - 6m (Design 2)

| Drawing # | Title |
|---------------|--|
| 23-11814-S101 | Cover Sheet & Drawing List |
| 23-11814-S102 | General Notes |
| 23-11814-S103 | Plan Layout & Details |
| 23-11814-S104 | Bearing Pad Details |
| 23-11814-S105 | Steel Crossing Plate Details |
| 23-11814-S110 | Bridging Unit Layout & Details |
| 23-11814-S111 | Bridging Unit Bearing Pad & Crossing Plate Details |

Steel Level Crossing - 9m Unit

| Drawing # | Title |
|---------------|------------------------------------|
| 23-11814-S201 | Cover Sheet & Drawing List |
| 23-11814-S202 | General Notes |
| 23-11814-S203 | Plan Layout & Details |
| 23-11814-S204 | Bearing Pad & Packer Plate Details |
| 23-11814-S205 | Crossing Plate Details Sheet 1 |
| 23-11814-S206 | Crossing Plate Details Sheet 2 |

Steel Level Crossing - 12m Unit

| Drawing # | Title |
|---------------|----------------------------|
| 23-11814-S301 | Cover Sheet & Drawing List |
| 23-11814-S302 | General Notes |
| 23-11814-S303 | Plan Layout & Details |
| 23-11814-S304 | Crossing Plate Details |
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