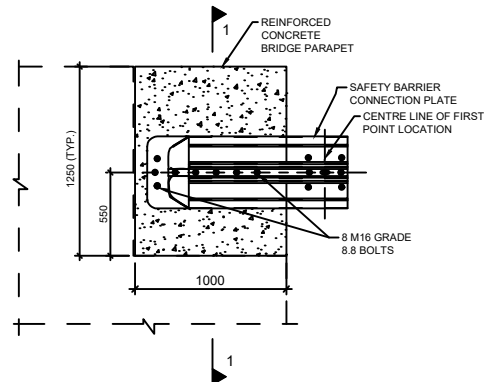
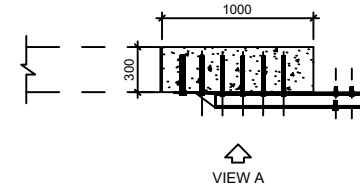


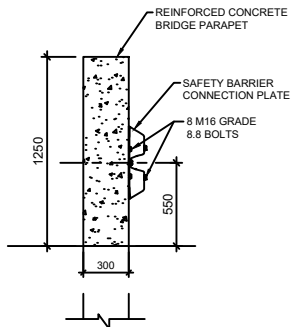
**FRONT - ISOMETRIC  
VIEW A**  
SCALE 1:50



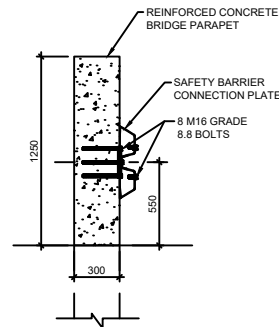
**ELEVATION - VIEW A**  
SCALE 1:50



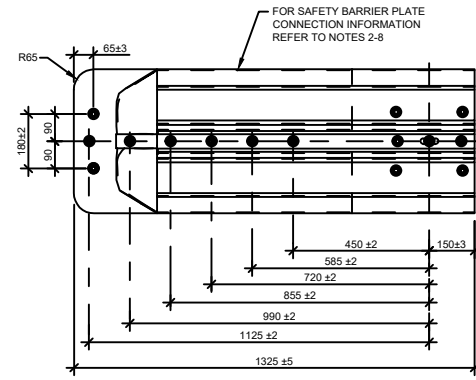
**PLAN VIEW**  
SCALE 1:50



**SIDE - VIEW C**  
(CC-SCD-410)  
SCALE 1:50



**SECTION 1-1**  
(CC-SCD-410)  
SCALE 1:50



**BARRIER CONNECTION DETAIL**  
SCALE 1:25

**NOTES:**

**GENERAL NOTES:**

1. FOR GENERAL NOTES REFER TO DRAWING CC-SCD-00412, REFER ALSO TO CC-SCD-00414.

**SAFETY BARRIER CONNECTION PLATE:**

2. THE CONNECTION PLATE SHOWN ON THIS STANDARD CONSTRUCTION DETAIL IS INDICATIVE OF THE CONNECTION PLATE DETAILS THAT ARE AVAILABLE IN THE IRISH MARKETPLACE. THE FOLLOWING MINIMUM REQUIREMENTS SHALL NEED TO BE SATISFIED:

- THE MINIMUM STEEL STRENGTH SHALL BE S235.
- THE MINIMUM PLATE THICKNESS SHALL BE 3.5mm

3. THE CONNECTION BETWEEN THE PLATE AND THE REINFORCED CONCRETE PARAPET SHALL COMPRISE A MINIMUM OF 8 No. GRADE 8.8 M16 BOLTS OR EQUIVALENT

4. BOLT EMBEDMENT WITHIN THE REINFORCED CONCRETE PARAPET SHALL SATISFY ONE OF THE FOLLOWING REQUIREMENTS:

5. FOR A CAST-IN BOLTED CONNECTION, THE MINIMUM BOLT EMBEDMENT DEPTH SHALL BE 200mm.

6. FOR A POST FIXED BOLTED CONNECTION USING A PROPRIETARY CHEMICAL ANCHOR SYSTEM, THE MINIMUM BOLT EMBEDMENT DEPTH SHALL BE AS PER THE MANUFACTURER'S REQUIREMENTS.

**REINFORCED CONCRETE PARAPET:**

7. THE DESIGNER IS RESPONSIBLE FOR DESIGN OF THE REINFORCED CONCRETE BRIDGE PARAPET.

8. ADDITIONAL REINFORCEMENT SHALL BE REQUIRED IN THE VICINITY OF THE CONNECTION PLATE TO RESIST THE BURSTING FORCES ASSOCIATED WITH A VEHICLE IMPACTING AT ANY POINT ON THE TRANSITION LENGTH. THE MINIMUM AREA OF ADDITIONAL REINFORCEMENT REQUIRED IS AS FOLLOWS:

- ADDITIONAL VERTICAL REINFORCEMENT REQUIREMENT = 350mm<sup>2</sup>/m IN THE VICINITY OF THE CONNECTION PLATE.

- ADDITIONAL HORIZONTAL REINFORCEMENT REQUIREMENT = 350mm<sup>2</sup>/m IN THE VICINITY OF THE CONNECTION PLATE.

9. THE DESIGNER SHALL ENSURE THAT THE DESIGNED REINFORCEMENT HAS SUFFICIENT REDUNDANCY TO ACCOMMODATE THE ADDITIONAL REINFORCEMENT REQUIREMENTS AS OUTLINED IN NOTE 12 & 13.



ACTIVITY



PUBLICATION TITLE

**SAFETY BARRIER TO CONCRETE PARAPET  
SHEET 2 OF 3 - CONNECTION DETAILS**

STREAM

STANDARD CONSTRUCTION DETAILS (SCD)

HISTORICAL REFERENCE

N/A

DOCUMENTATION SET

STANDARDS

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