



General Description: Concrete Barrier is used on highways and side roads to prevent motor vehicles from going over banks. The most common Roadside Barrier is 690 mm high (27 inches). In addition to 690 mm Barrier, we manufacture Barrier that's placed in the middle of traffic lanes known as "Median Barrier". The Barrier on the ends of bridges is known as "Bridge Parapet Barrier". Both Median Barrier and Bridge Parapet Barrier are 810 mm high (32 inches).

Configuration: You may purchase Concrete Barrier in individual pieces (e.g., for use in a parking lot or to block off fuel tanks, etc.) or as commonly seen as a "string" with the various pieces joined together using "hooks" (also known as male pieces) and "eyes" (also known as female pieces). Strings of Barrier usually taper at each end to achieve a gradual transition from the highest point of the Barrier to the ground. To achieve this gradual tapered look, customers will purchase a "Transition" piece along with a "Bullnose" piece at each end of the string. Each piece of standard (690mm or 810mm) Barrier is 2.5 meters (8 feet) long. Bullnose pieces are half the length of a regular piece of Barrier: 1.2 meters (4 feet) long.

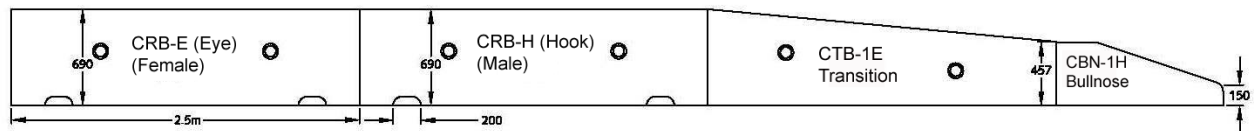


Figure 1.1: 690mm CRB Female (Eye), and Male (Hook) with Transition (CTB-1E) and Bullnose (CBN-1H) on end

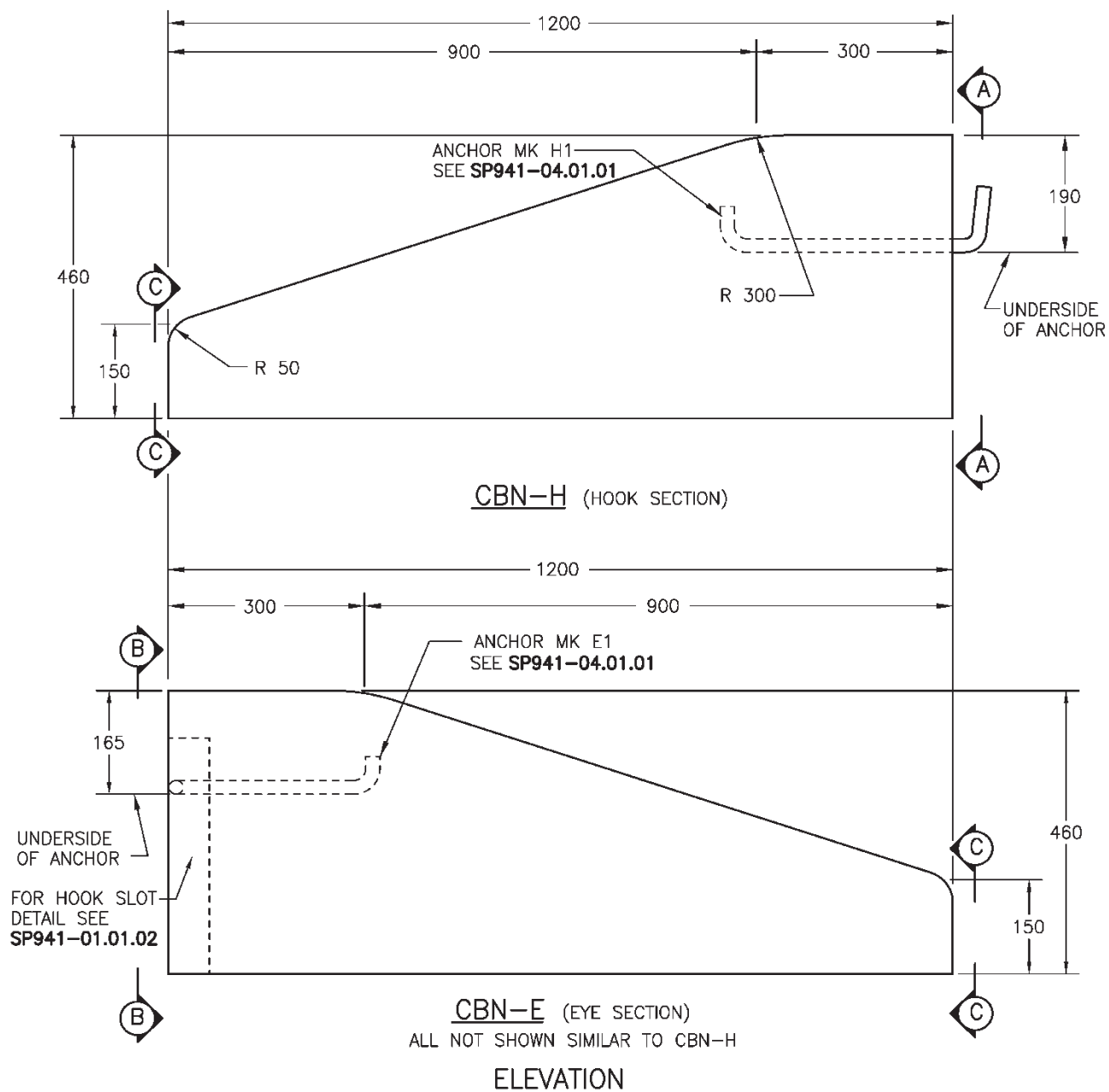
General Rules for Configuring and Purchasing Barrier:

1. If joining together in a string you will usually need to purchase 2 Transition and 2 Bullnose pieces per string (one Transition and one Bullnose on each end of the string).
2. Start and end each string with a Male (Hook) – this means that there will usually always be an odd number of regular pieces in each string (one more male piece than female)
3. If you have a length measurement for the string, then divide the length by 2.5 (meters) or 8 (feet) to determine how many pieces are required for the string. Subtract 1 piece for the 2 Bullnose pieces (2 Bullnose = same length as 1), and 2 pieces for the Transition to come up with a total of regular pieces. Example: You require a string that is 50 meters in length. Divide 50 by 2.5 = 20 pieces required. Subtract 1 piece for the Bullnose = 19 pieces; subtract 2 pieces for the Transition = 17 pieces. You can now tell our office personnel you require 17 pieces of regular CRB (9 male and 8 female), 2 – Transition pieces, and 2 Bullnose pieces.
4. If you are not joining the pieces in a string, you will likely want to purchase Barrier with "Eyes" (Female) as the "Hooks" (Male) pieces have a hook protruding from each end that could become a safety concern.
5. If you are joining on to an existing string or replacing broken pieces, measure the pieces and provide pictures if possible to ensure we supply Barriers that are compatible with your existing string.
6. If you are joining a Median Barrier or Bridge Parapet (810 mm) string to a 690 mm string, you will require a Transition piece known as a "CTB-2".

Once you have all of your requirements, contact our office for supply and delivery/installation pricing.

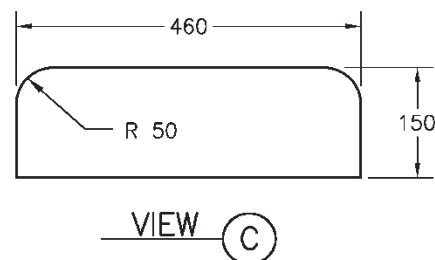
PRECAST CONCRETE BULL-NOSE
460 mm – CBN-H & CBN-E

SP941-01.01.01



GENERAL NOTES:

1. FOR VIEW (A) & (B) SEE **SP941-01.01.02**
2. FIBRILLATED FIBRE STRAND REINFORCED CONCRETE TO BE USED FOR BULL-NOSE (CBN).
3. FIBRILLATED FIBRE STRAND REINFORCED CONCRETE MAY BE SUBSTITUTED FOR STEEL REINFORCED CONCRETE IN LOW BARRIER (CLB-H & E).
4. MATERIALS AND QUALITY OF WORK TO BE IN ACCORDANCE WITH SECTION **941**.
5. STANDARD CBN-E MAY BE MANUFACTURED ONLY WITH PRIOR WRITTEN PERMISSION FROM THE HIGHWAY SAFETY BRANCH.

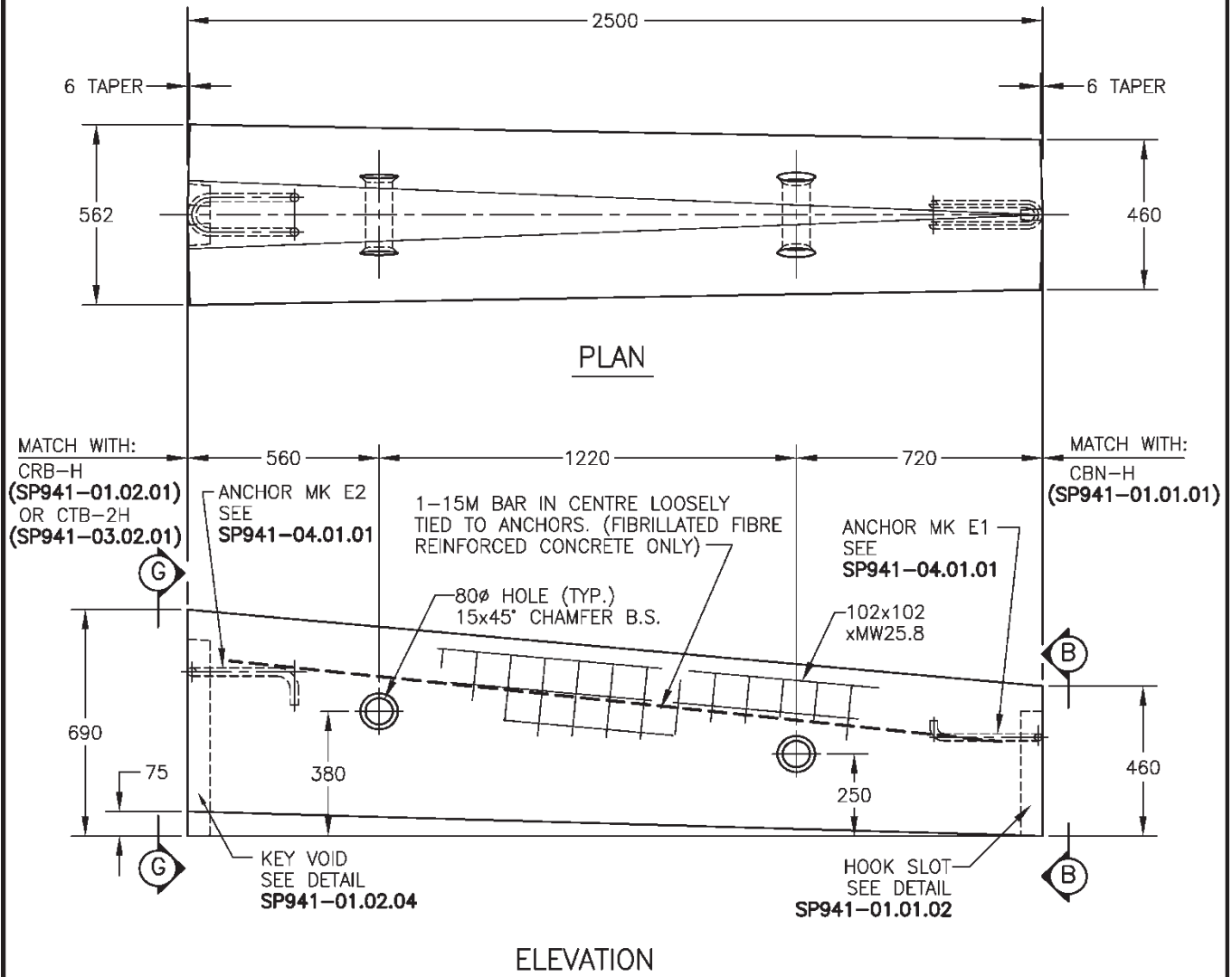


NOT TO SCALE

ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE NOTED

PRECAST CONCRETE TRANSITION BARRIER
690 mm TO 460 mm – CTB-1E

SP941-03.01.01

**NOTES:**

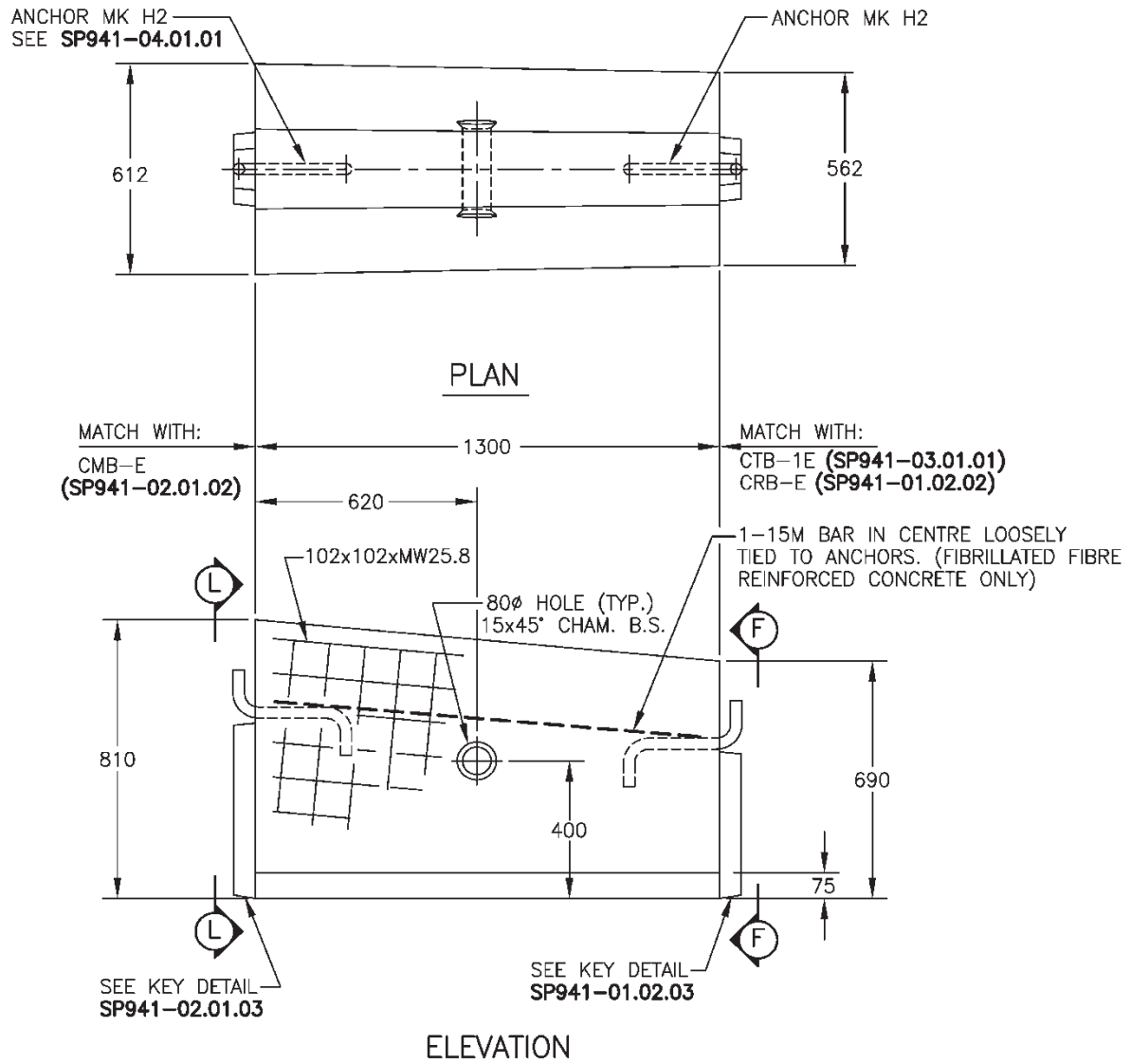
1. FOR VIEW (B) SEE SP941-01.01.02. FOR VIEW (G) SEE SP941-01.02.04.
2. FOR GENERAL NOTES SEE SP941-01.02.01.
3. SEE DRAWINGS SP941-01.01.01 AND SP941-01.01.02 FOR DETAILS OF 460 mm UNIT AND BULLNOSE. SEE DRAWING SP941-01.02.01 FOR DETAILS OF 690 mm HOOK UNIT OR SP941-03.02.01 FOR DETAILS OF 810 TO 690 TRANSITION UNIT.

NOT TO SCALE

ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE NOTED

PRECAST CONCRETE TRANSITION BARRIER
810 mm TO 690 mm – CTB-2H

SP941-03.02.01



NOTES:

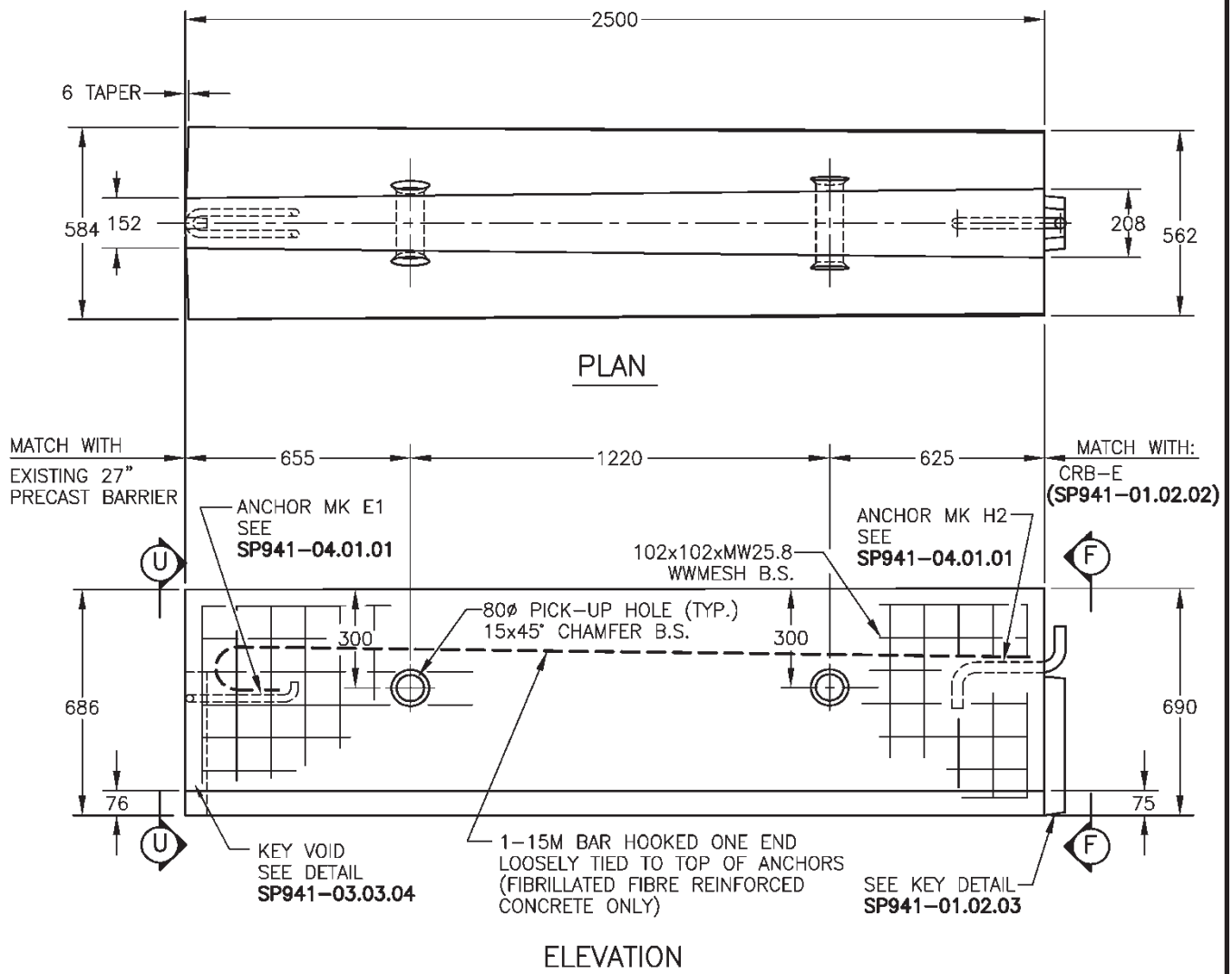
- FOR VIEW (F) SEE SP941-01.02.03.
FOR VIEW (L) SEE SP941-02.01.03.
- FOR GENERAL NOTES SEE SP941-01.02.01.
- SEE DRAWING SP941-02.01.02 FOR DETAILS OF 810 mm EYE UNIT.
SEE DRAWING SP941-01.02.02 FOR DETAILS OF 690 mm EYE UNIT
OR SP941-03.01.01 FOR DETAILS OF 690 TO 460 TRANSITION UNIT.

NOT TO SCALE

ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE NOTED

PRECAST CONCRETE TRANSITION BARRIER
686 mm TO 690 mm – CTB-3E+H

SP941-03.03.03



NOTES:

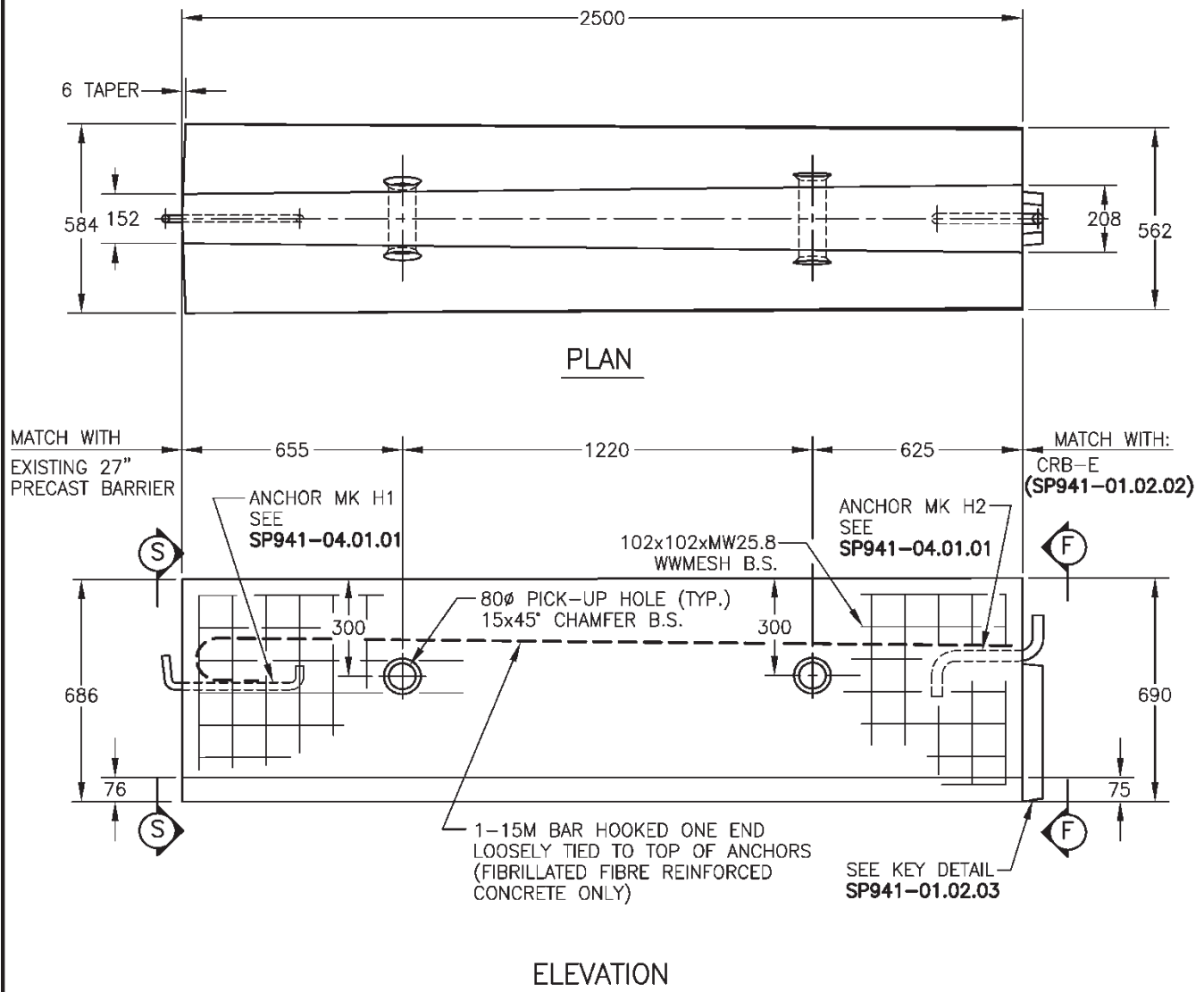
1. FOR VIEW (F) SEE SP941-01.02.03.. FOR VIEW (U) SEE SP941-03.03.04
2. FOR GENERAL NOTES SEE SP941-01.02.01
3. SEE DRAWING SP941-01.02.01 FOR DETAILS OF 690 mm HOOK UNIT.
4. THIS UNIT TO BE USED WITH EXISTING 27" BARRIER. 27" BARRIERS ARE NO LONGER USED IN NEW INSTALLATIONS

NOT TO SCALE

ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE NOTED

PRECAST CONCRETE TRANSITION BARRIER
686 mm TO 690 mm – CTB-3H

SP941-03.03.01



NOTES:

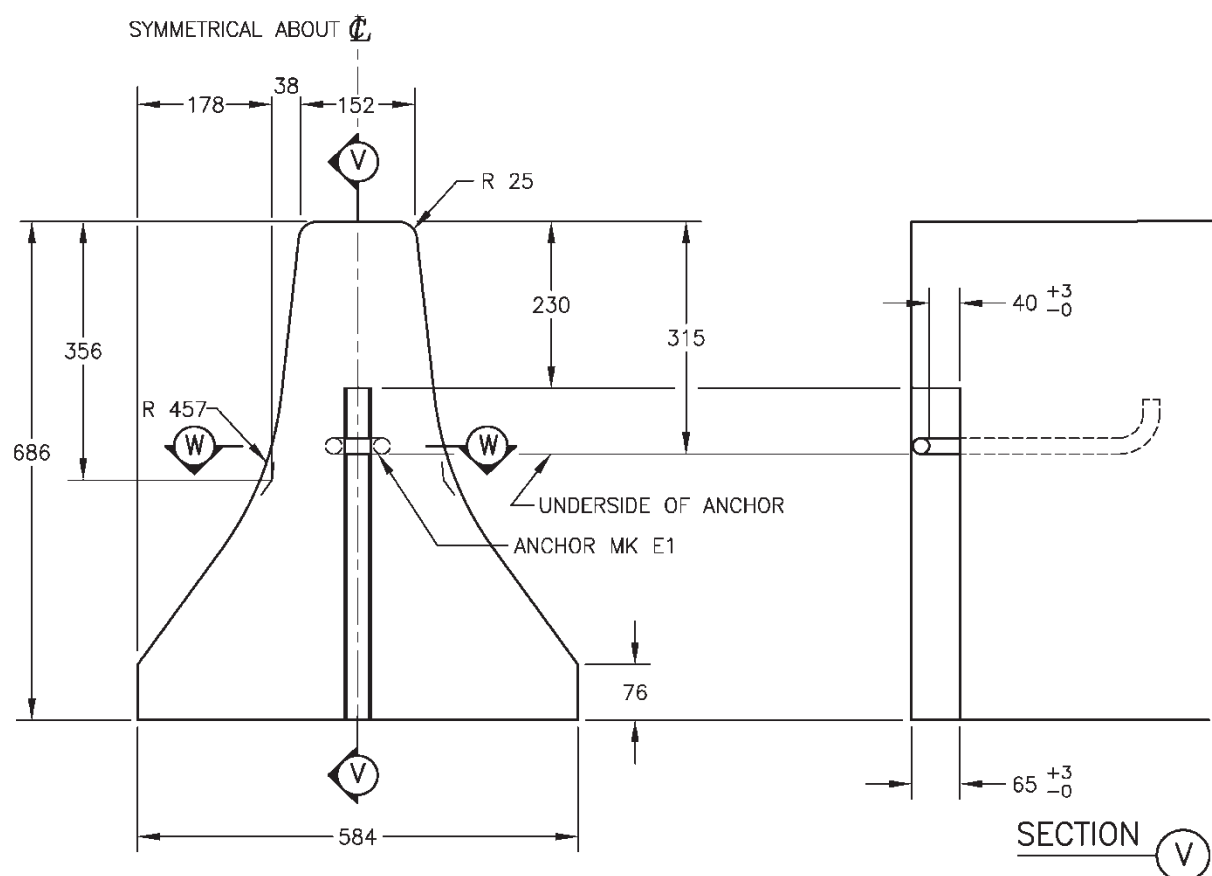
1. FOR VIEW (F) SEE SP941-01.02.03. FOR VIEW (S) SEE SP941-03.03.02
2. FOR GENERAL NOTES SEE SP941-01.02.01
3. SEE DRAWING SP941-01.02.02 FOR DETAILS OF 690 mm EYE UNIT.
4. THIS UNIT TO BE USED WITH EXISTING 27" BARRIER. 27" BARRIERS ARE NO LONGER USED IN NEW INSTALLATIONS

NOT TO SCALE

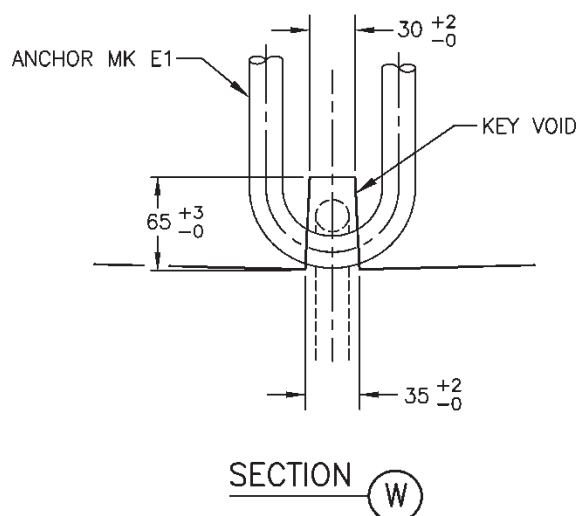
ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE NOTED

PRECAST CONCRETE TRANSITION BARRIER
686 mm TO 690 mm – CTB-3E+H DETAILS

SP941-03.03.04



VIEW
(EYE AND
HOOK UNIT) U

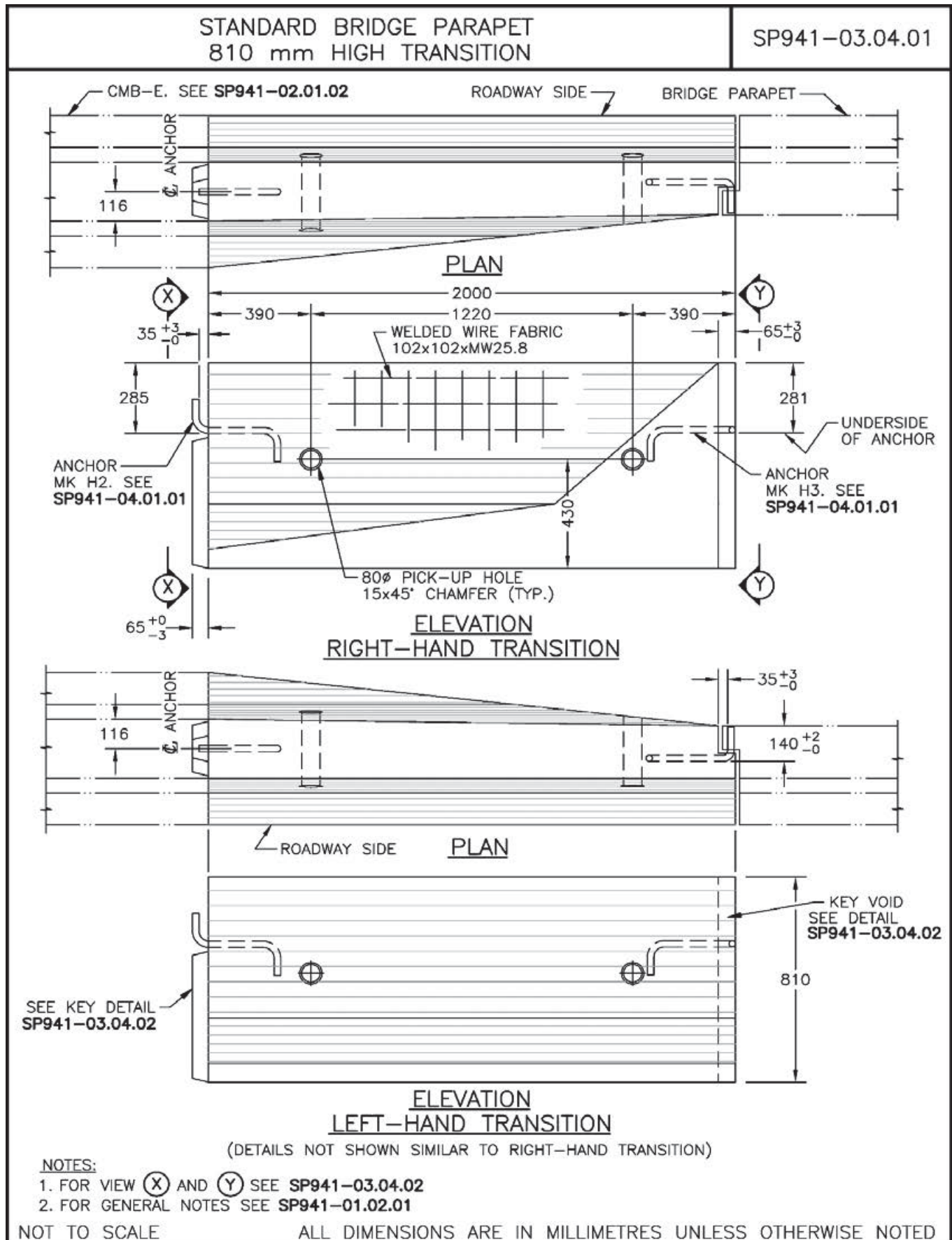


NOTES:

1. FOR LOCATION OF VIEW U SEE SP941-03.03.03.
2. FOR GENERAL NOTES SEE SP941-01.02.01
3. FOR DETAILS OF ANCHORS SEE SP941-04.01.01.

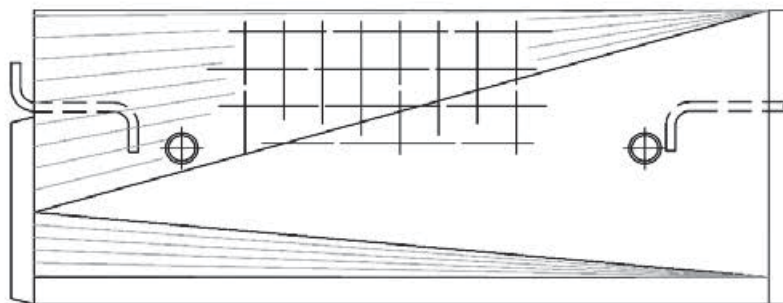
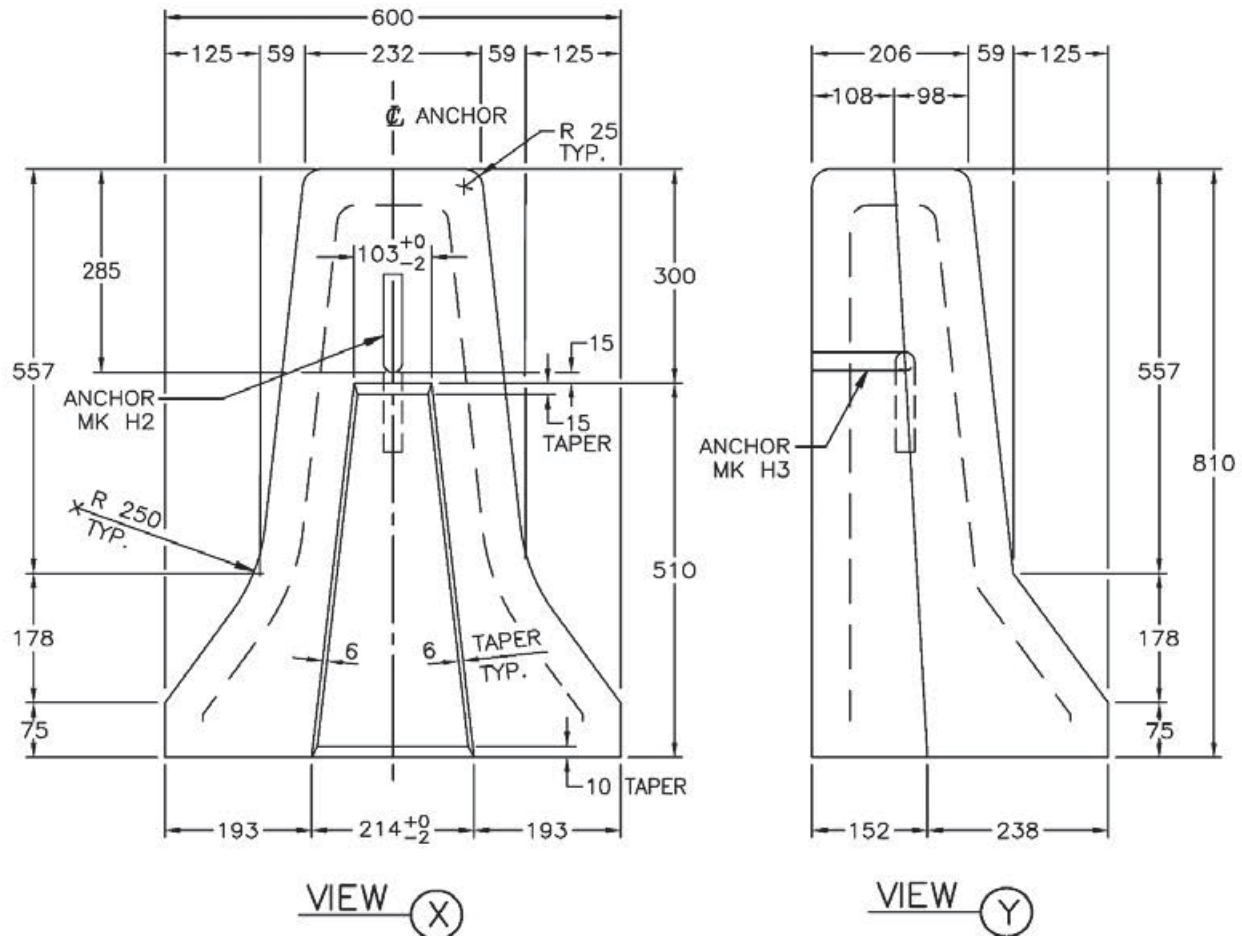
NOT TO SCALE

ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE NOTED



STANDARD BRIDGE PARAPET 810 mm HIGH TRANSITION – DETAILS

SP941–03.04.02



ACCEPTABLE ALTERNATE SIDE CONFIGURATION

RIGHT HAND TRANSITION ELEVATION SHOWN
LEFT HAND TRANSITION ELEVATION OPPOSITE HAND

NOTES:

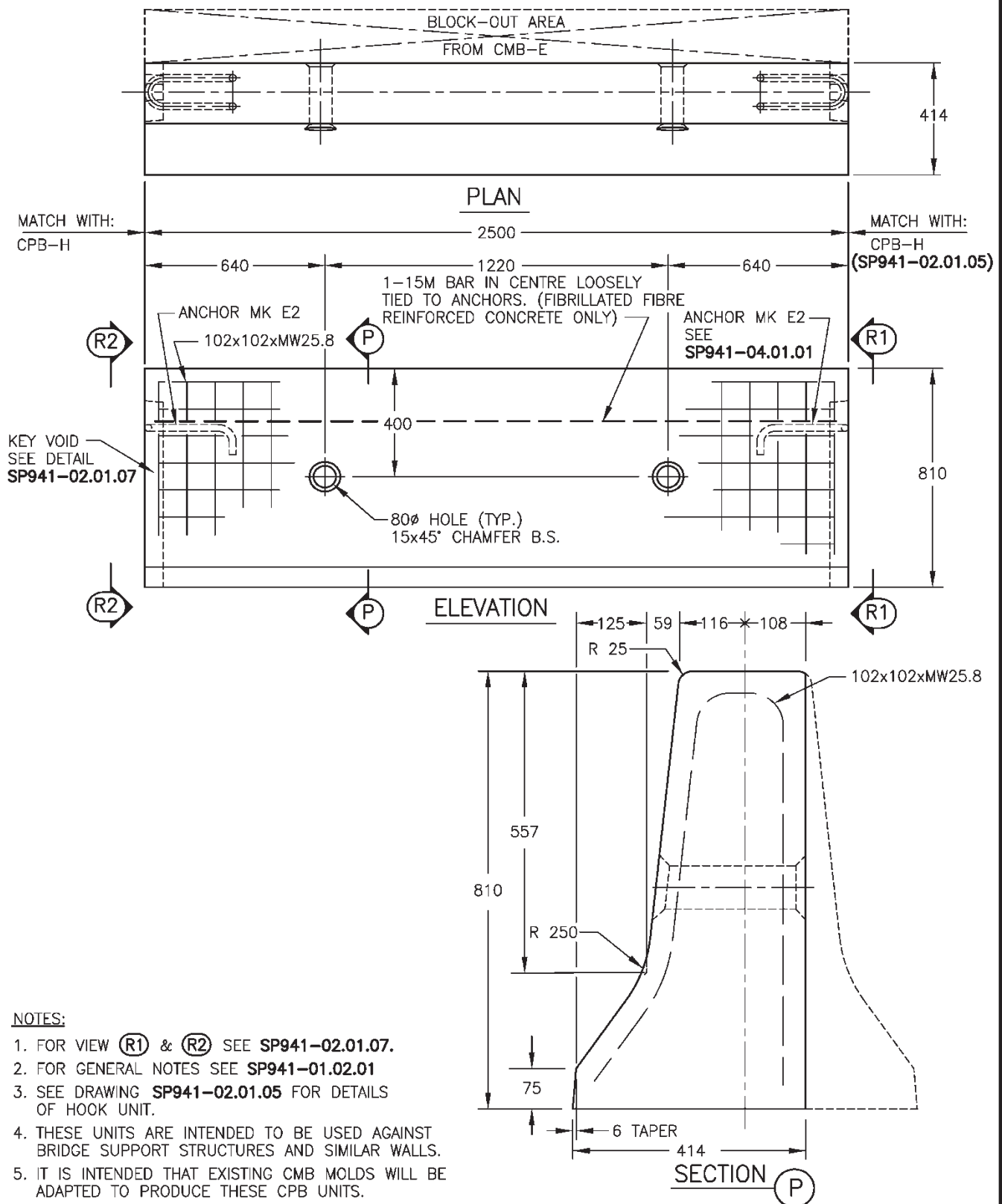
1. FOR LOCATION OF VIEW (X) AND (Y) SEE SP941–03.04.01
2. FOR GENERAL NOTES SEE SP941–01.02.01

NOT TO SCALE

ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE NOTED

PRECAST CONCRETE PIER BARRIER
810 mm – CPB–E

SP941–02.01.06

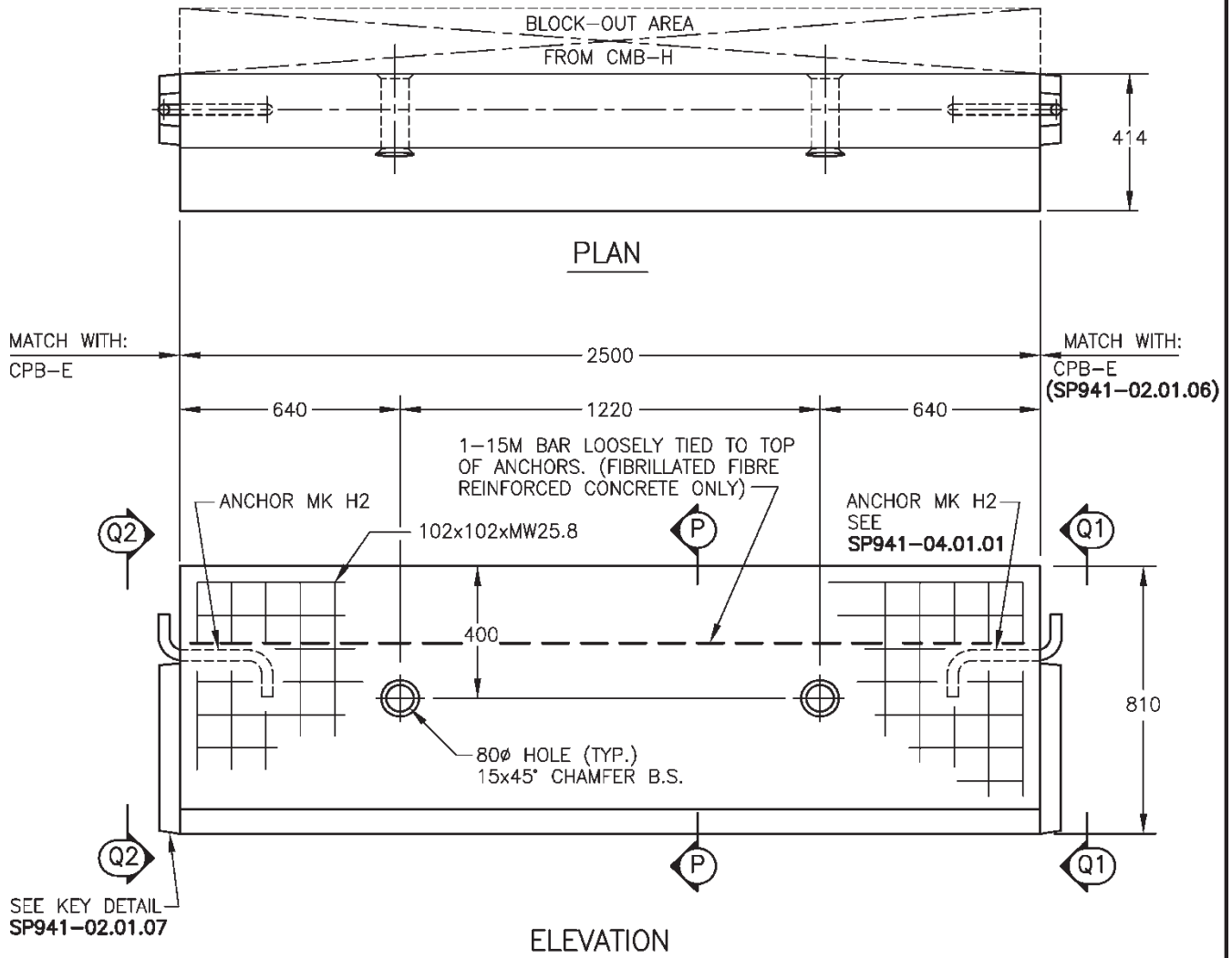


NOT TO SCALE

ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE NOTED

PRECAST CONCRETE PIER BARRIER
810 mm – CPB-H

SP941-02.01.05

**NOTES:**

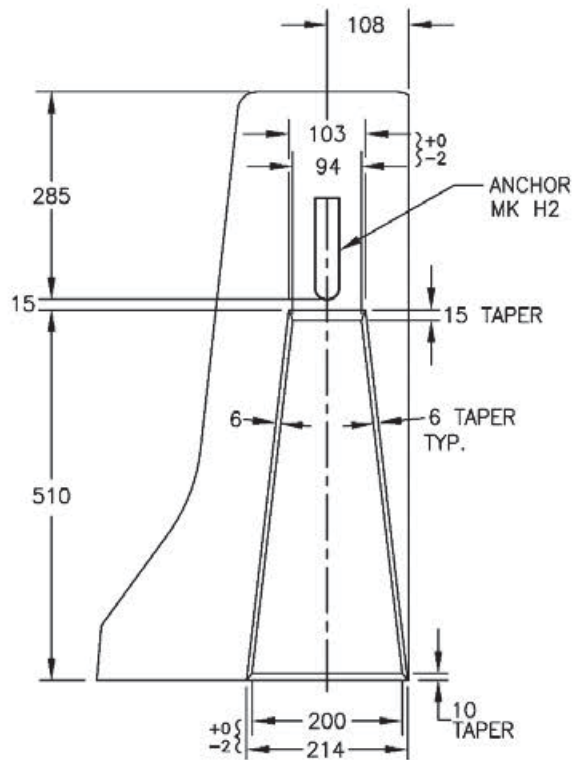
1. FOR SECTION (P) SEE SP941-02.01.06.
FOR VIEW (Q1) & (Q2) SEE SP941-02.01.07.
2. FOR GENERAL NOTES SEE SP941-01.02.01
3. SEE DRAWING SP941-02.01.06 FOR DETAILS OF EYE UNIT.
4. THESE UNITS ARE INTENDED TO BE USED AGAINST BRIDGE SUPPORT STRUCTURES AND SIMILAR WALLS.
5. IT IS INTENDED THAT EXISTING CMB MOLDS WILL BE ADAPTED TO PRODUCE THESE CPB UNITS.

NOT TO SCALE

ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE NOTED

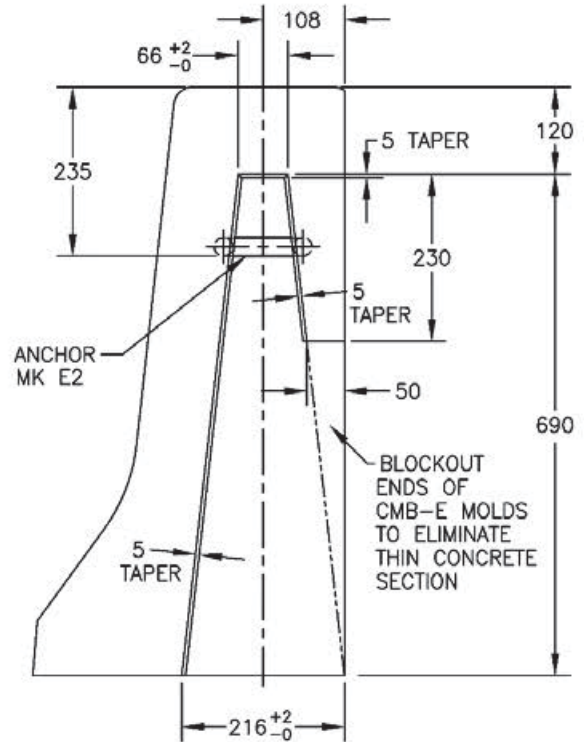
PRECAST CONCRETE PIER BARRIER
810 mm – CPB-H & CPB-E DETAILS

SP941-02.01.07



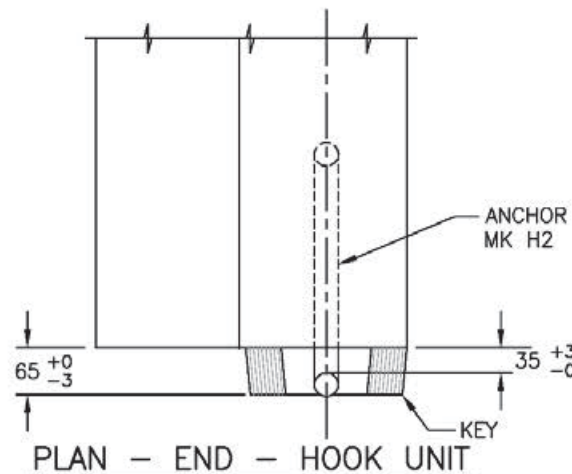
VIEW (HOOK UNIT) **Q1** AS SHOWN

VIEW **Q2** OPPOSITE HAND

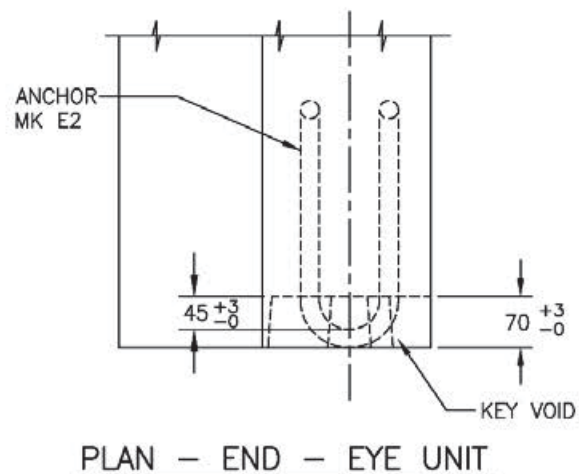


VIEW (EYE UNIT) **R1** AS SHOWN

VIEW **R2** OPPOSITE HAND



PLAN – END – HOOK UNIT



PLAN – END – EYE UNIT

NOTES:

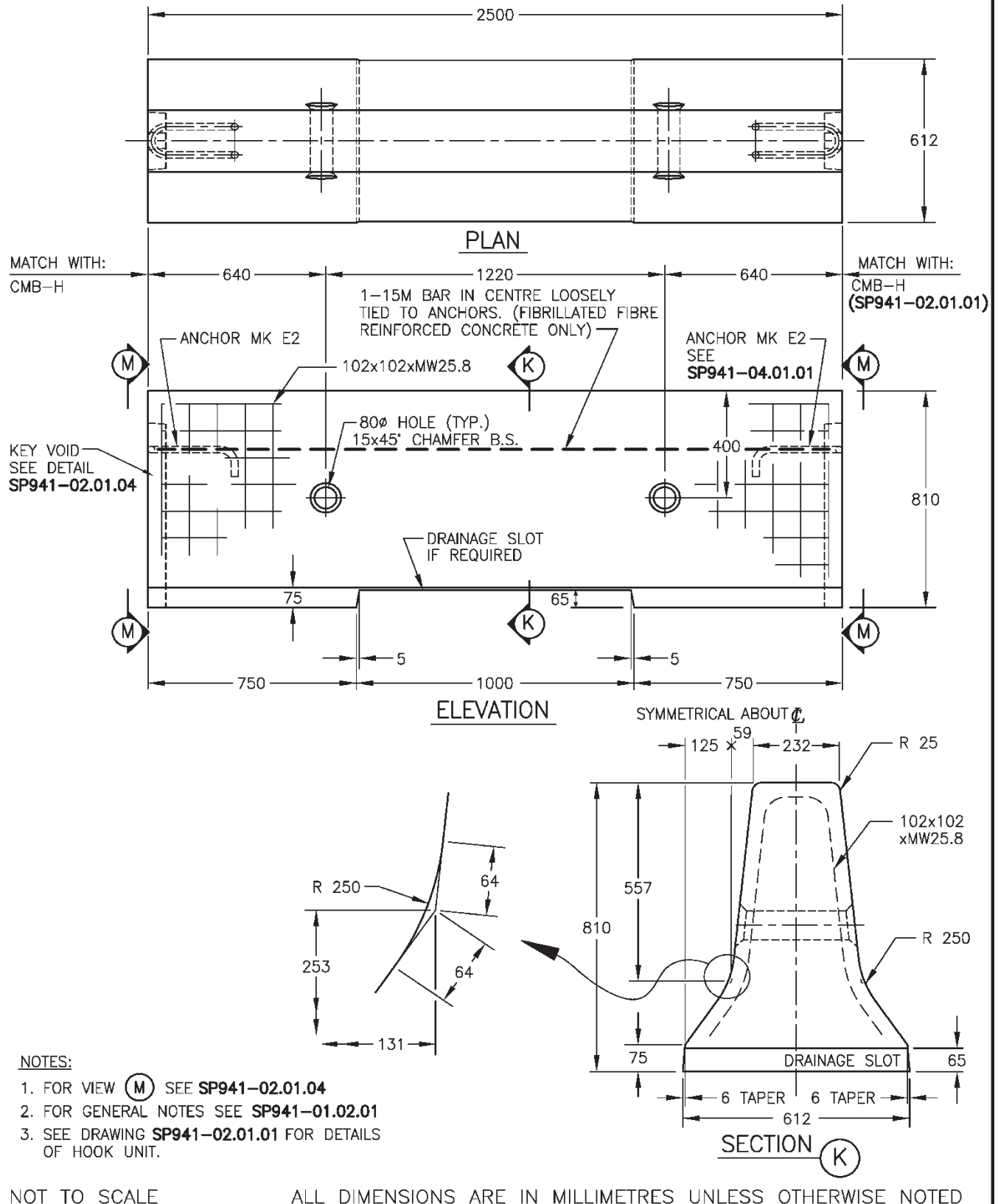
1. FOR LOCATION OF VIEW **Q1** & **Q2** SEE SP941-02.01.05.
2. FOR LOCATION OF VIEW **R1** & **R2** SEE SP941-02.01.06.
3. FOR GENERAL NOTES SEE SP941-01.02.01
4. FOR DETAILS OF ANCHORS SEE SP941-04.01.01.

NOT TO SCALE

ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE NOTED

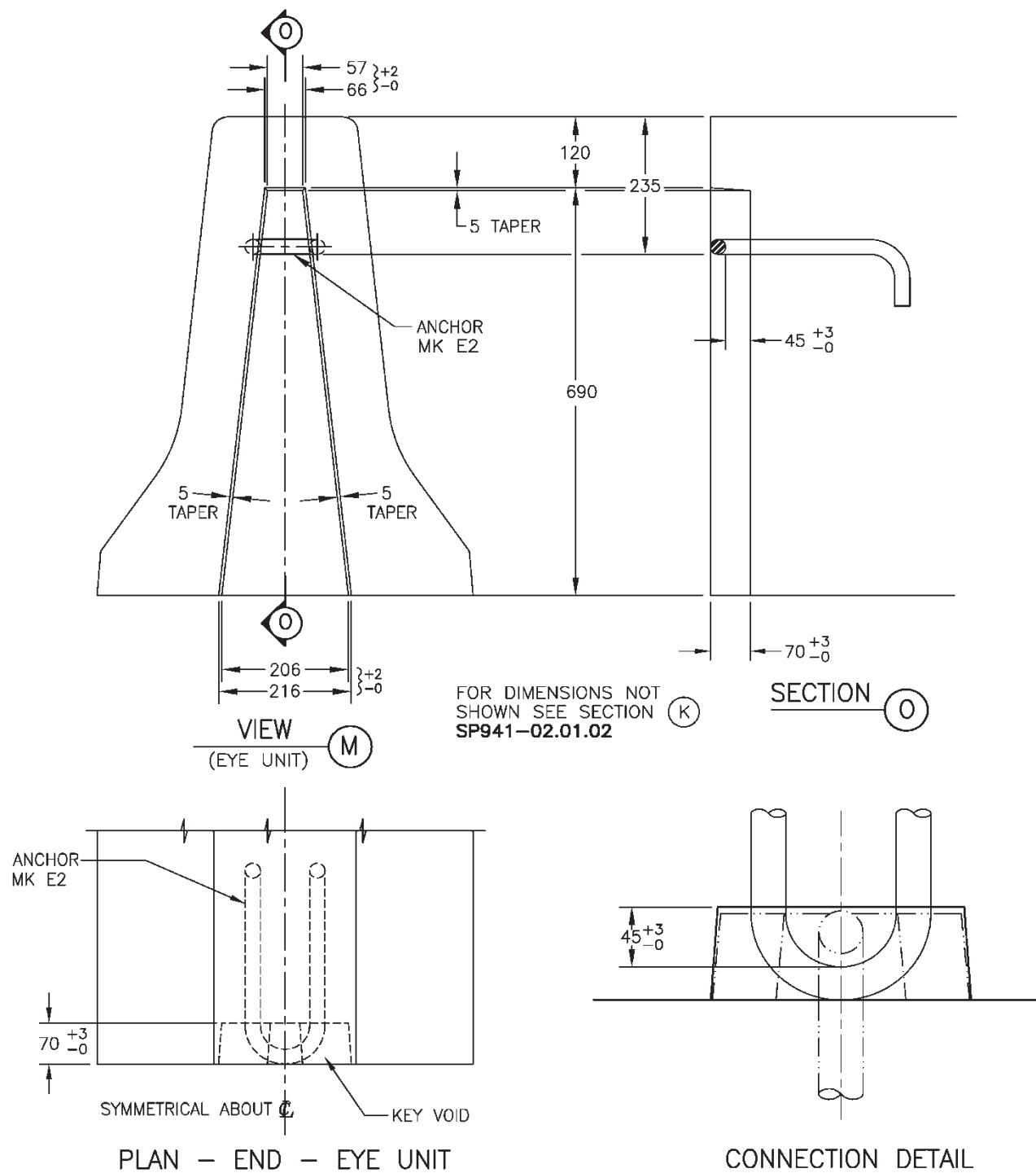
PRECAST CONCRETE MEDIAN BARRIER
810 mm – CMB-E

SP941-02.01.02



PRECAST CONCRETE MEDIAN BARRIER
810 mm – CMB-E DETAILS

SP941-02.01.04



NOTES:

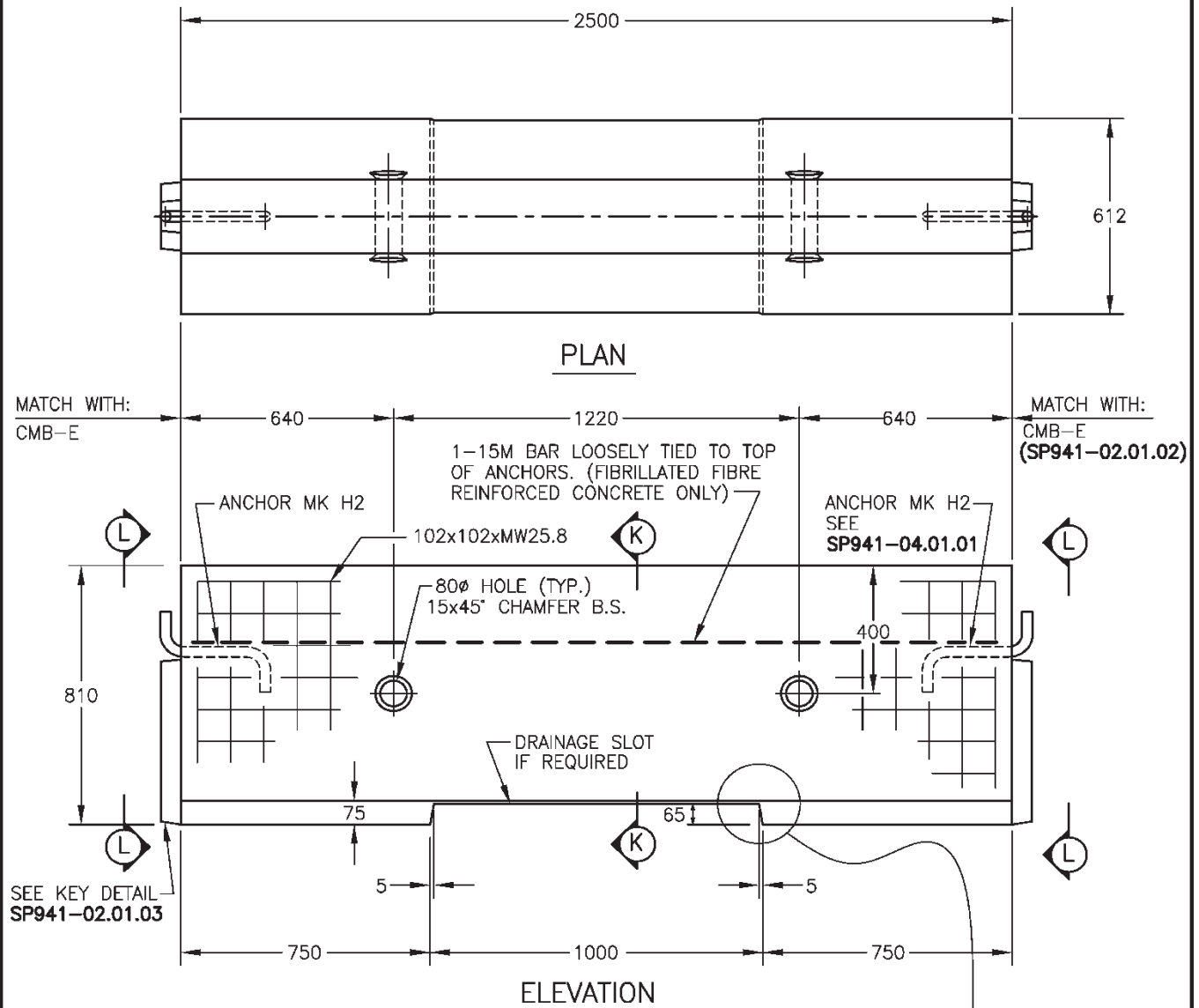
1. FOR LOCATION OF VIEW (M) SEE SP941-02.01.02.
2. FOR GENERAL NOTES SEE SP941-01.02.01.
3. FOR DETAILS OF ANCHORS SEE SP941-04.01.01.
4. THE CONNECTION DIMENSIONS PERMIT INSTALLATION TO A MINIMUM HORIZONTAL CURVE RADIUS OF 95.5 METRES.

NOT TO SCALE

ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE NOTED

PRECAST CONCRETE MEDIAN BARRIER
810 mm – CMB-H

SP941-02.01.01



NOTES:

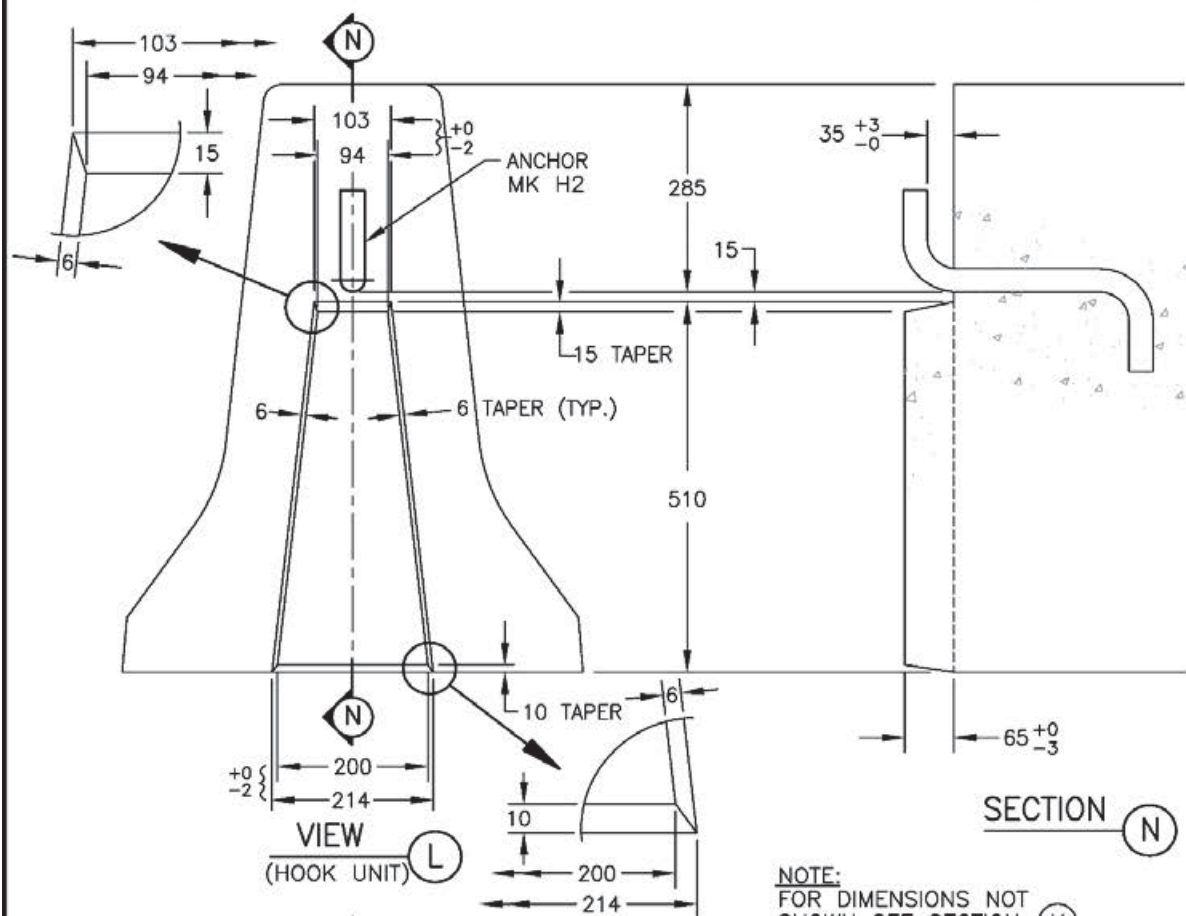
1. FOR SECTION (K) SEE SP941-02.01.02 FOR VIEW (L) SEE SP941-02.01.03.
2. FOR GENERAL NOTES SEE SP941-01.02.01
3. SEE DRAWING SP941-02.01.02 FOR DETAILS OF EYE UNIT.

NOT TO SCALE

ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE NOTED

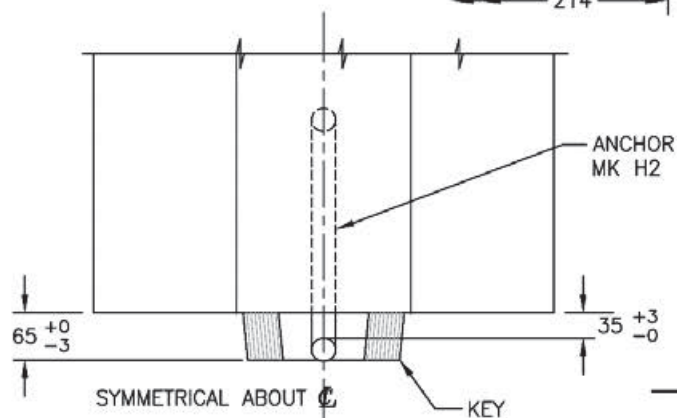
PRECAST CONCRETE MEDIAN BARRIER
810 mm – CMB-H DETAILS

SP941-02.01.03



SECTION (N)

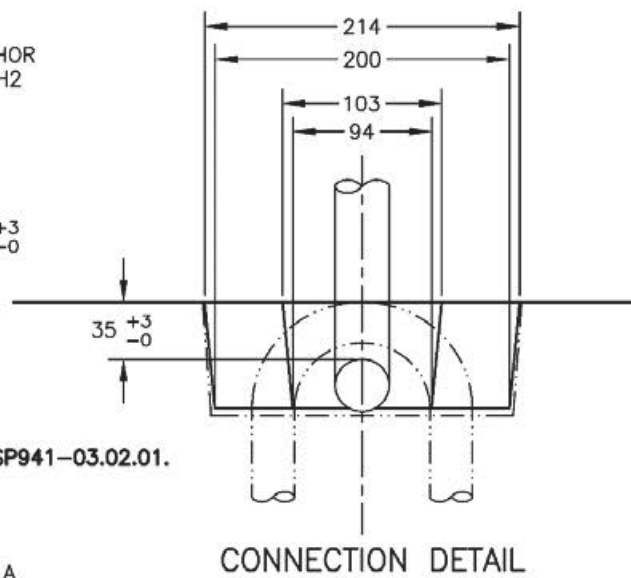
NOTE:
FOR DIMENSIONS NOT
SHOWN SEE SECTION (K)
SP941-02.01.02



PLAN - END - HOOK UNIT

NOTES:

1. FOR LOCATION OF VIEW (L) SEE SP941-02.01.01 & SP941-03.02.01.
2. FOR GENERAL NOTES SEE SP941-01.02.01.
3. FOR DETAILS OF ANCHORS SEE SP941-04.01.01.
4. THE CONNECTION DIMENSIONS PERMIT INSTALLATION TO A MINIMUM HORIZONTAL CURVE RADIUS OF 95.5 METRES.



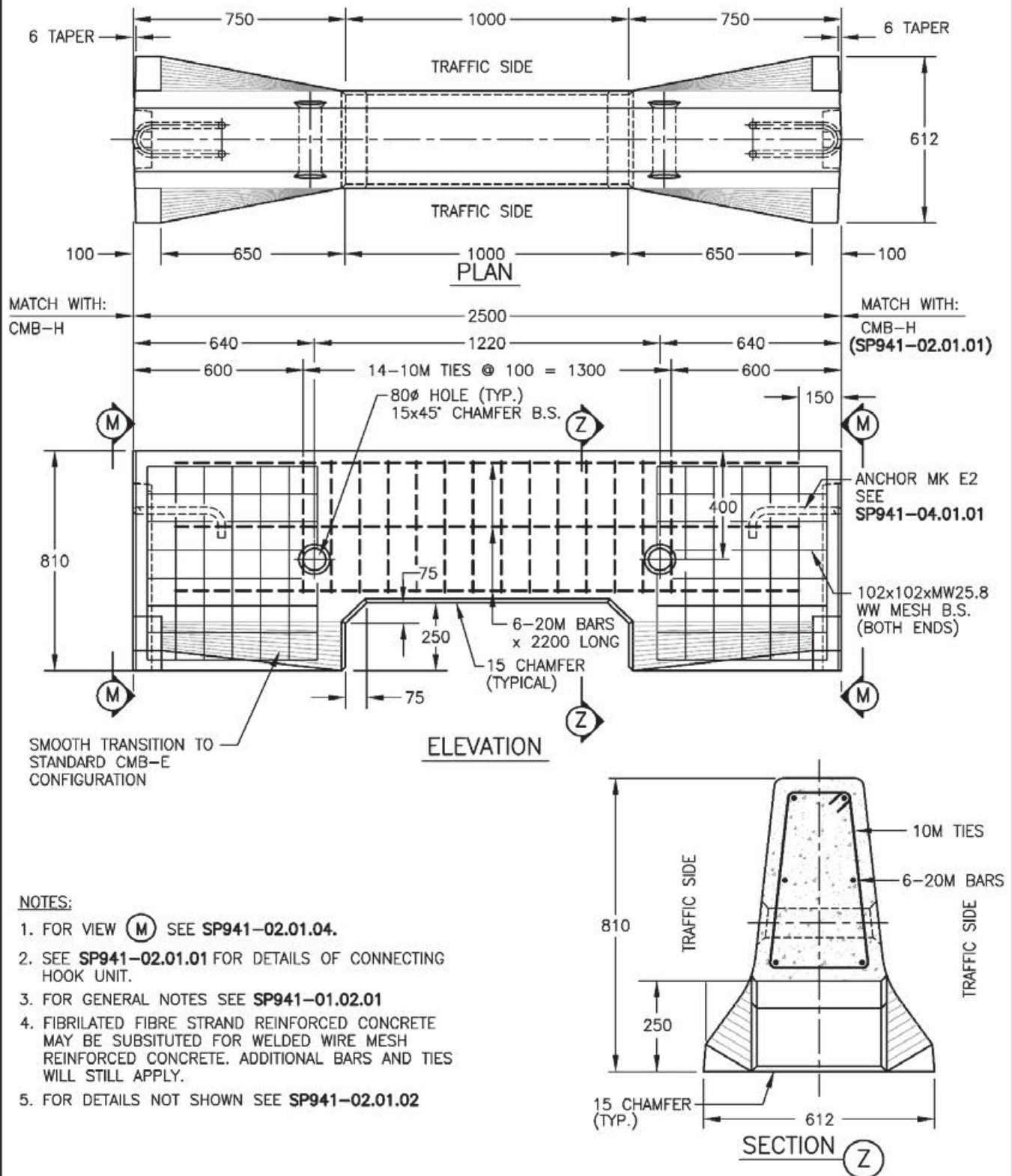
CONNECTION DETAIL

NOT TO SCALE

ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE NOTED

PRECAST CONCRETE MEDIAN DRAINAGE BARRIER 810 mm – CMBD-E DETAILS

SP941-02.01.10

**NOTES:**

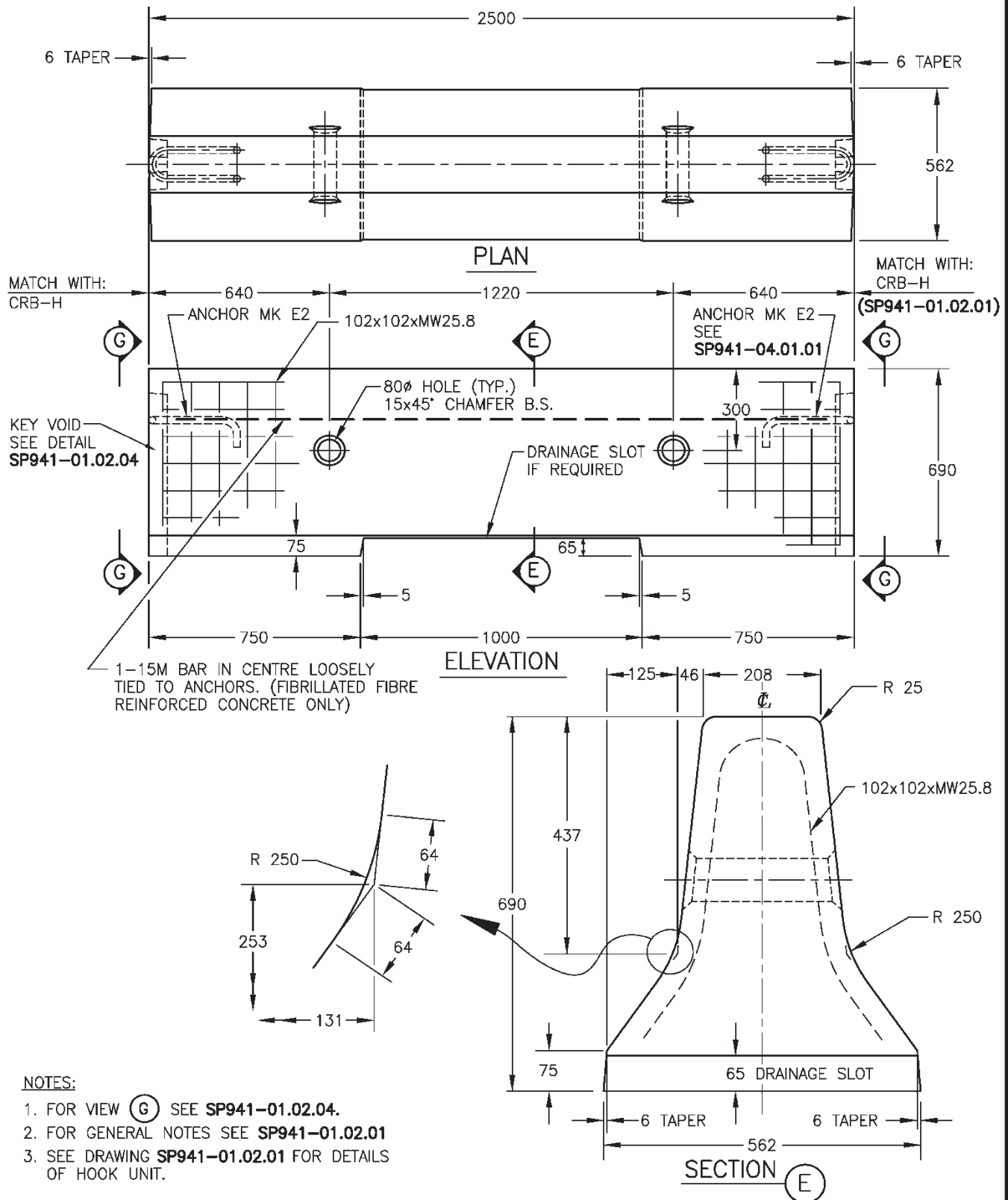
1. FOR VIEW (M) SEE SP941-02.01.04.
2. SEE SP941-02.01.01 FOR DETAILS OF CONNECTING HOOK UNIT.
3. FOR GENERAL NOTES SEE SP941-01.02.01
4. FIBRILATED FIBRE STRAND REINFORCED CONCRETE MAY BE SUBSTITUTED FOR WELDED WIRE MESH REINFORCED CONCRETE. ADDITIONAL BARS AND TIES WILL STILL APPLY.
5. FOR DETAILS NOT SHOWN SEE SP941-02.01.02

NOT TO SCALE

ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE NOTED

PRECAST CONCRETE ROADSIDE BARRIER
690 mm – CRB-E

SP941-01.02.02

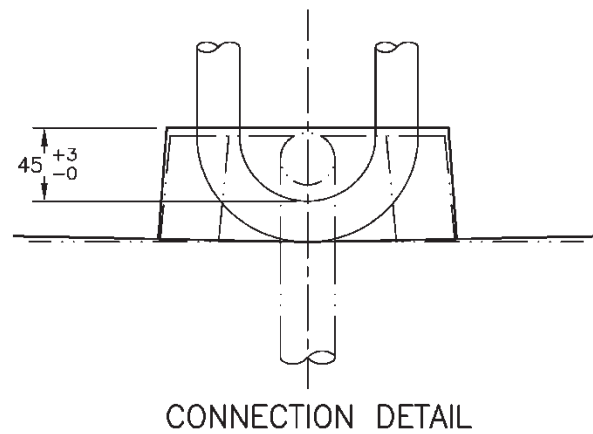
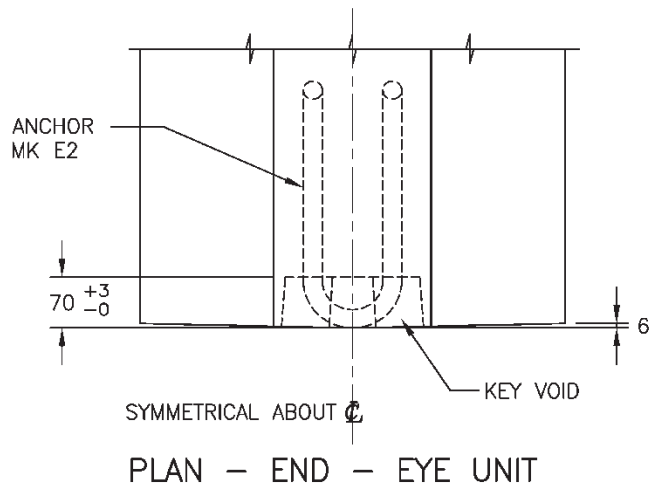
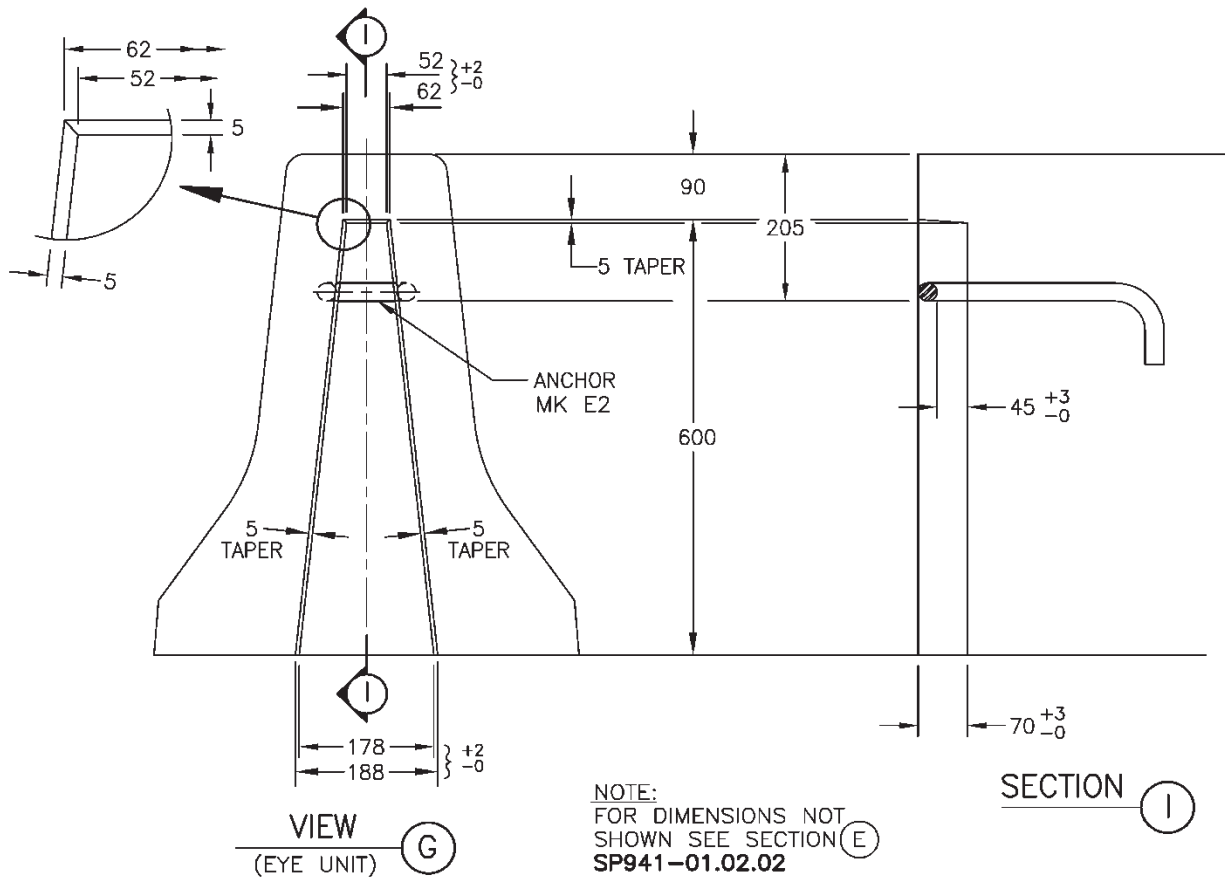


NOT TO SCALE

ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE NOTED

PRECAST CONCRETE ROADSIDE BARRIER
690 mm – CRB-E DETAILS

SP941-01.02.04

**NOTES:**

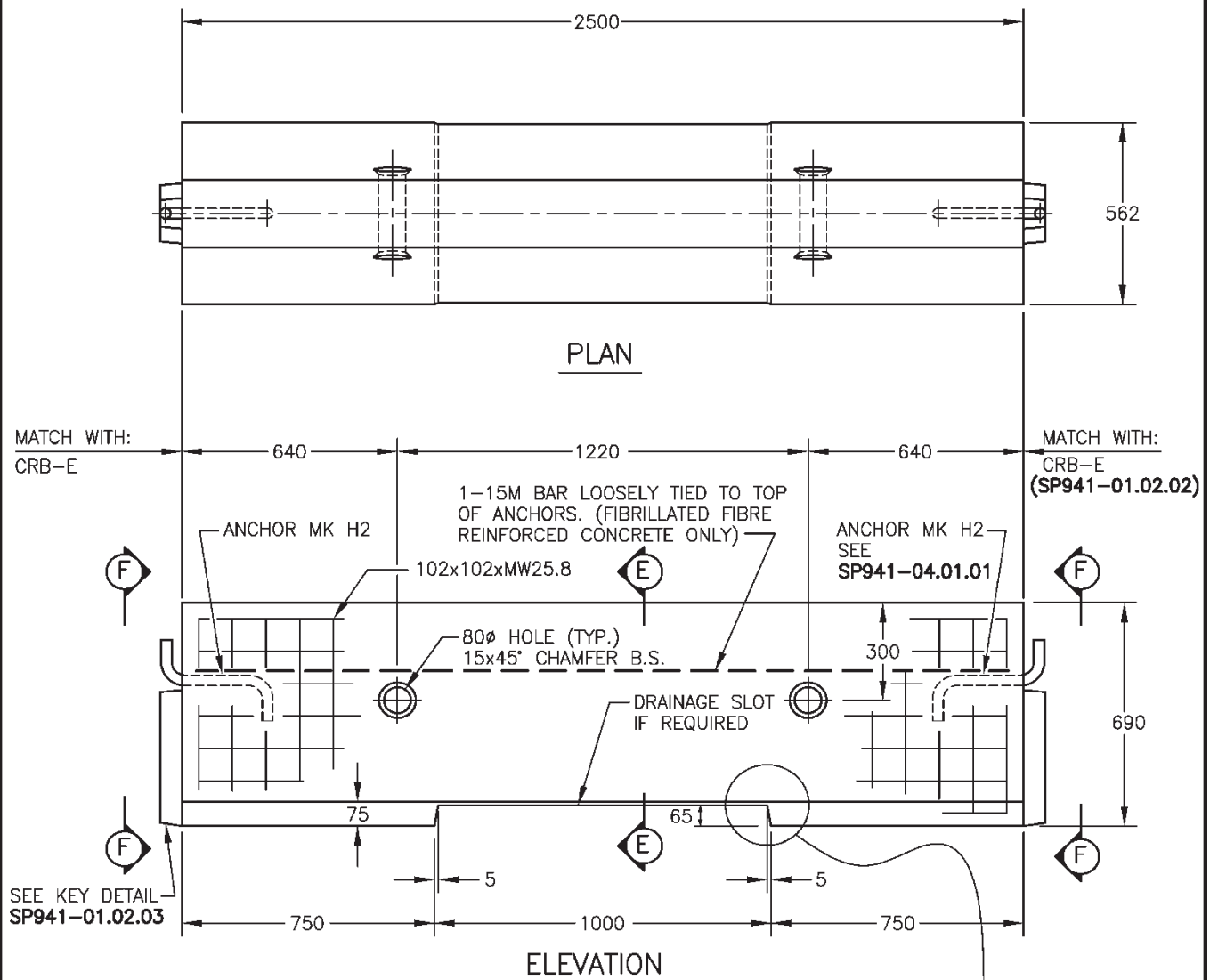
1. FOR LOCATION OF VIEW **G** SEE **SP941-01.02.02**, **SP941-01.02.05** & **SP941-03.01.01**.
2. FOR GENERAL NOTES SEE **SP941-01.02.01**.
3. FOR DETAILS OF ANCHORS SEE **SP941-04.01.01**.
4. THE CONNECTION DIMENSIONS ON A CRB-E UNIT PERMIT INSTALLATION TO A MINIMUM HORIZONTAL CURVE RADIUS OF 51 METRES. FOR TIGHT CURVATURE INSTALLATION SEE **SP941-02.01.08** & **SP941-02.01.09**.

NOT TO SCALE

ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE NOTED

PRECAST CONCRETE ROADSIDE BARRIER
690 mm – CRB–H

SP941–01.02.01

**GENERAL NOTES:**

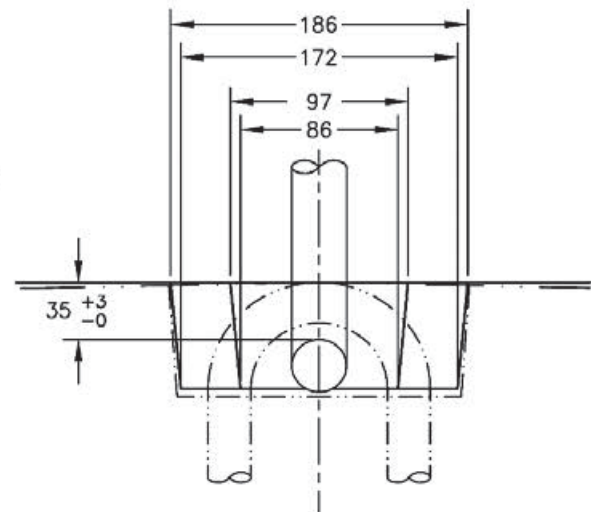
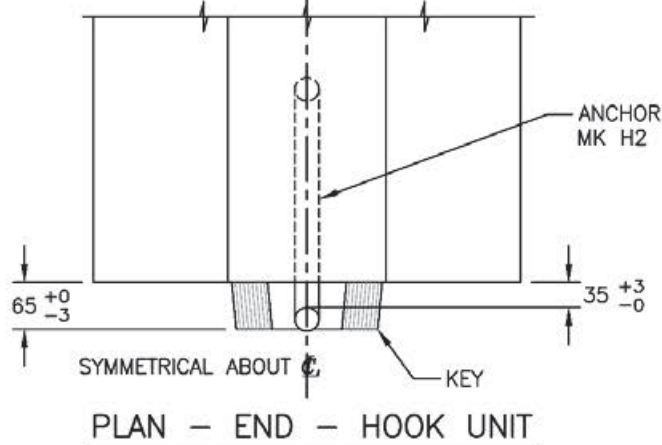
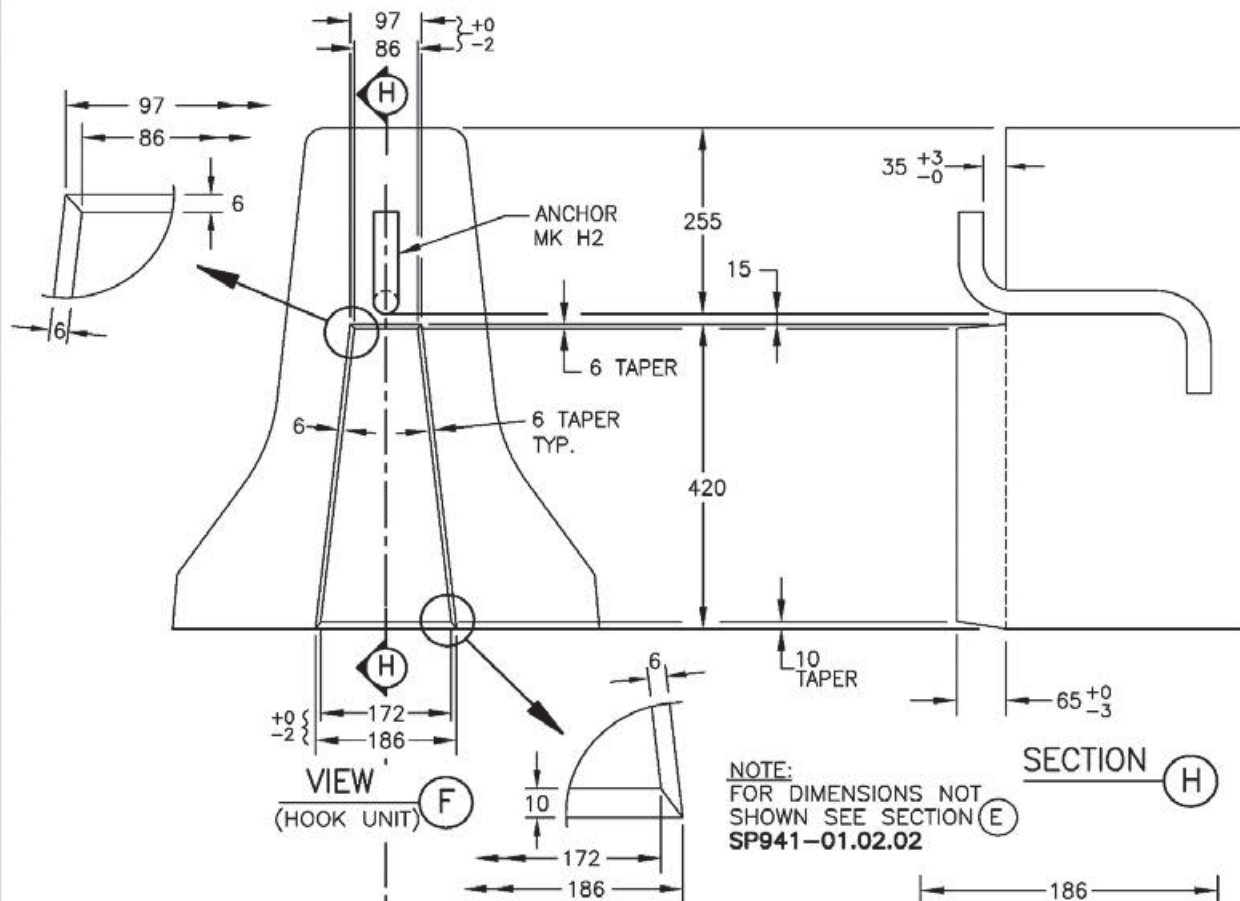
1. FOR SECTION (E) SEE SP941–01.02.02. FOR VIEW (F) SEE SP941–01.02.03.
2. SEE DRAWING SP941–01.02.02 FOR DETAILS OF EYE UNIT.
3. ALL REINFORCING TO HAVE 50 MINIMUM COVER EXCEPT AS NOTED.
4. ALL TOLERANCES ± 3 mm EXCEPT AS NOTED.
5. CHANGES TO PICK-UP HOLE DIAMETERS MAY BE MADE WITH THE WRITTEN PERMISSION OF THE HIGHWAY SAFETY ENGINEER.
6. HOOK AND EYE ANCHORS EACH END SHALL BE SECURED IN PLACE DURING CASTING TO PREVENT DISLODGE.
7. MATERIALS AND QUALITY OF WORK TO BE IN ACCORDANCE WITH SECTION 941.
8. DRAINAGE SLOT IS REQUIRED WHEN NECESSARY TO DRAIN SURFACE WATER THROUGH THE BARRIER.
9. SHEAR KEY VOID WITH GROUTING HOLES BY REQUEST. SEE SP941–04.02.01.
10. FIBRILLATED FIBRE STRAND REINFORCED CONCRETE MAY BE SUBSTITUTED FOR WELDED WIRE MESH REINFORCED CONCRETE.

NOT TO SCALE

ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE NOTED

PRECAST CONCRETE ROADSIDE BARRIER
690 mm – CRB-H DETAILS

SP941-01.02.03



NOTES:

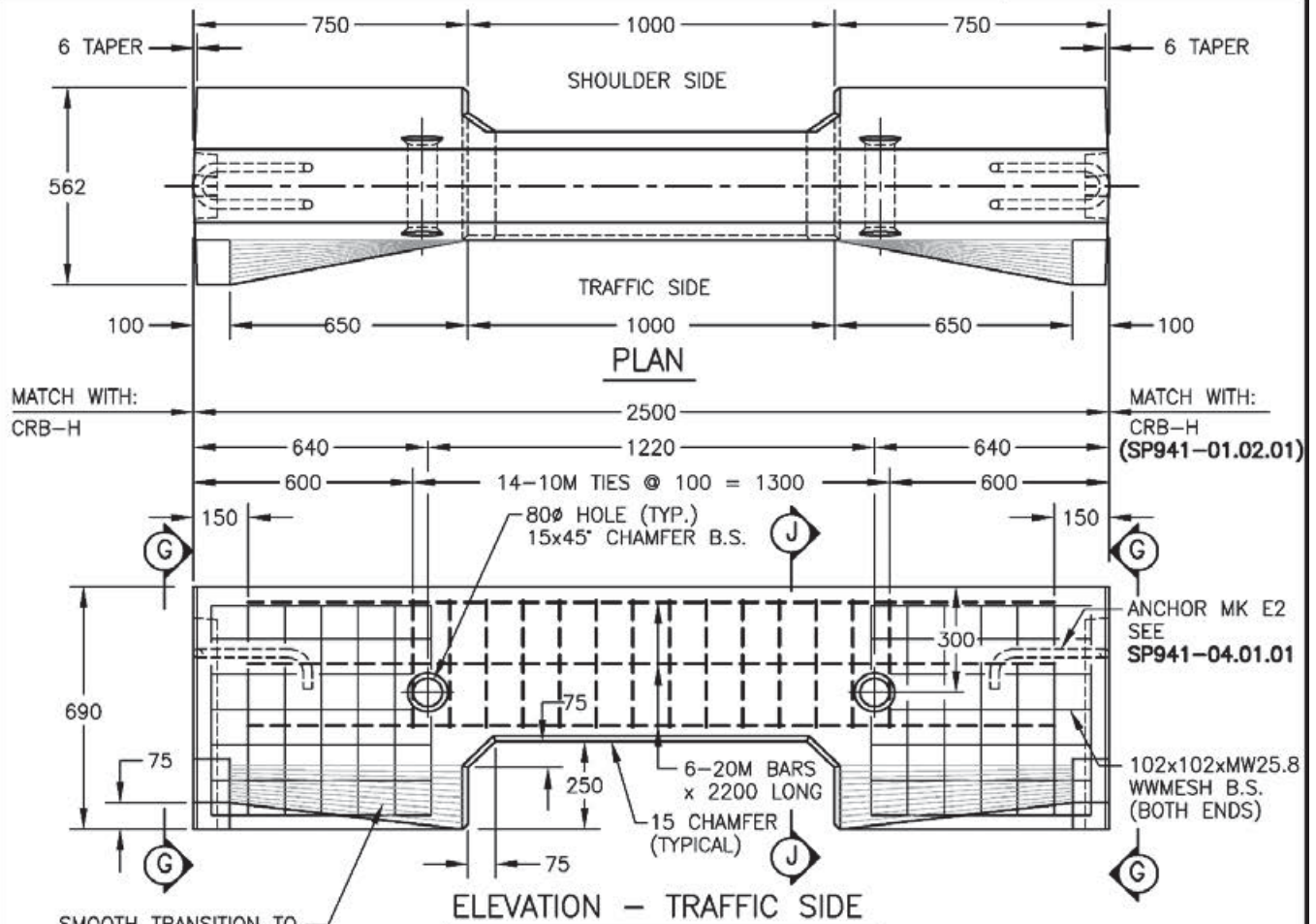
1. FOR LOCATION OF VIEW (F) SEE SP941-01.02.01, SP941-03.02.01, SP941-03.03.01 & SP941-03.03.03.
2. FOR GENERAL NOTES SEE SP941-01.02.01
3. FOR DETAILS OF ANCHORS SEE SP941-04.01.01.
4. THE CONNECTION DIMENSIONS ON A CRB-E UNIT PERMIT INSTALLATION TO A MINIMUM HORIZONTAL CURVE RADIUS OF 51 METRES. FOR TIGHT CURVATURE INSTALLATION SEE SP941-02.01.08 & SP941-02.01.09.

NOT TO SCALE

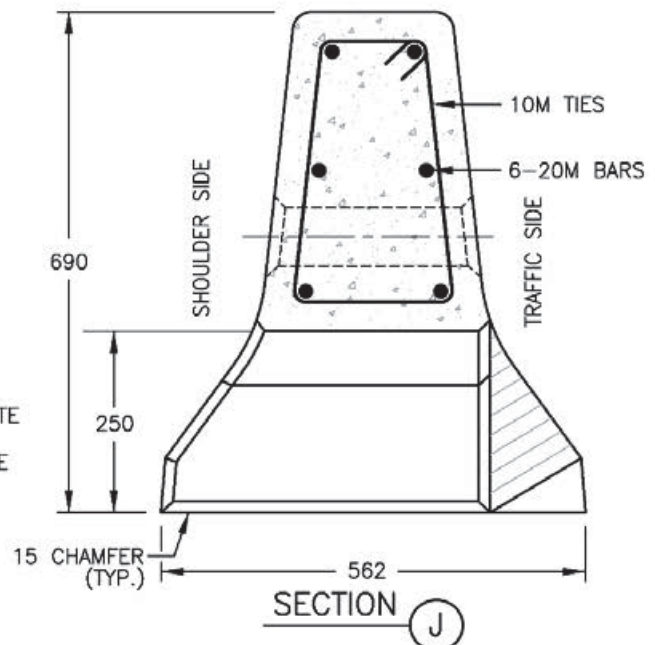
ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE NOTED

PRECAST CONCRETE DRAINAGE BARRIER (SPECIAL USE⁵) 690 mm – CDB-E DETAILS

SP941-01.02.05

**NOTES:**

1. FOR VIEW (G) SEE SP941-01.02.04.
2. SEE SP941-01.02.01 FOR DETAILS OF CONNECTING HOOK UNIT.
3. FOR GENERAL NOTES SEE SP941-01.02.01
4. FIBRILLATED FIBRE STRAND REINFORCED CONCRETE MAY BE SUBSTITUTED FOR WELDED WIRE MESH REINFORCED CONCRETE. ADDITIONAL BARS AND TIES WILL STILL APPLY.
5. THIS LARGE OPENING DRAINAGE BARRIER WAS DEVELOPED TO BE USED IN CONJUNCTION WITH A PAVED SPILLWAY AT THE BOTTOM OF SAG CURVES. IT MAY BE APPROPRIATE FOR USE AT OTHER LOCATIONS WHERE A SIGNIFICANT VOLUME OF WATER REQUIRES AN OUTLET THAT CANNOT BE HANDLED BY CRB WITH A 65 mm DRAINAGE SLOT.

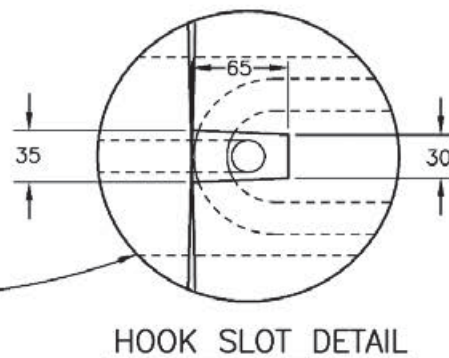
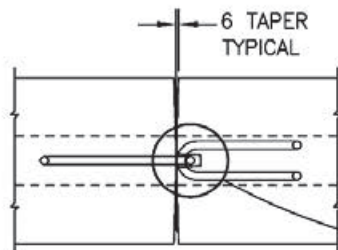
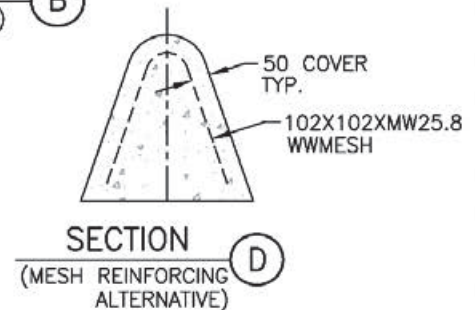
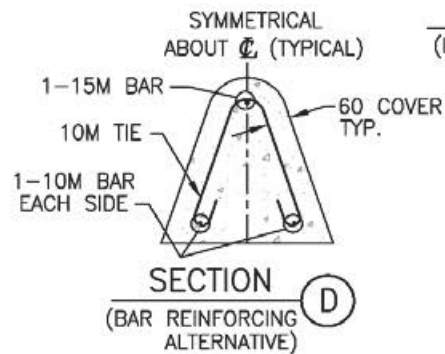
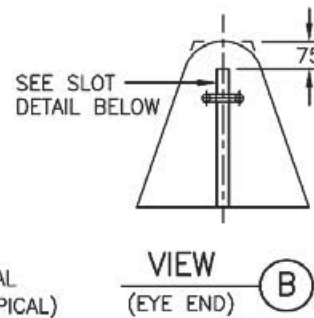
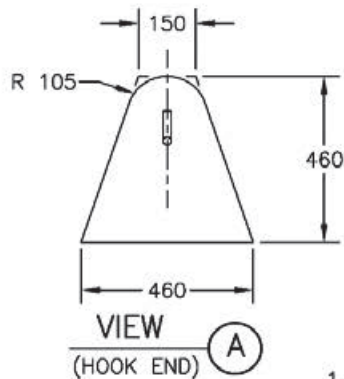
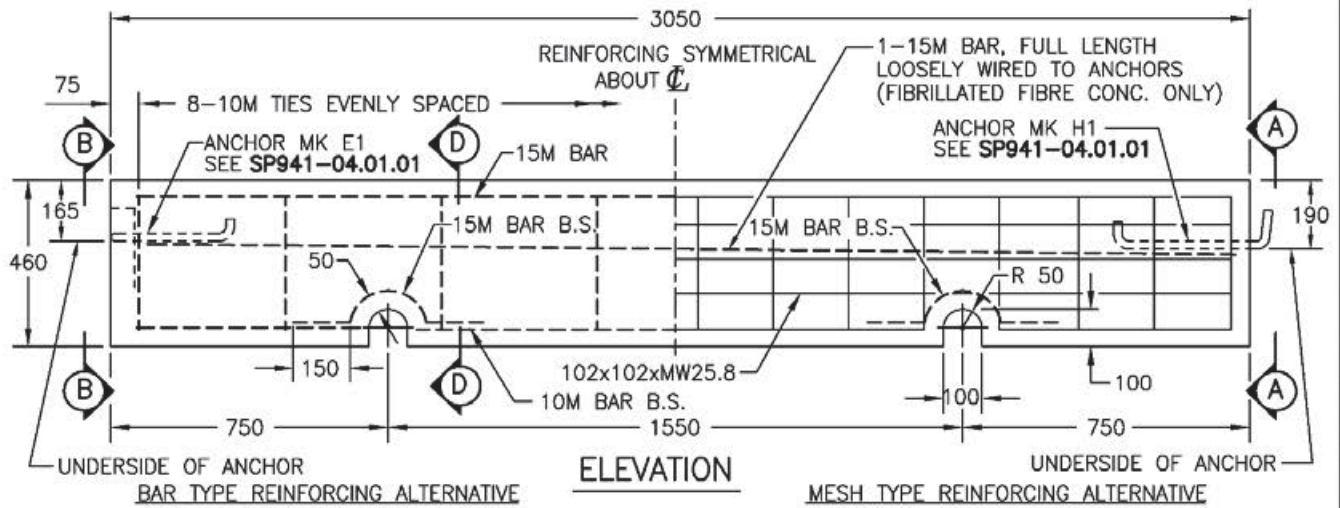


NOT TO SCALE

ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE NOTED

PRECAST CONCRETE LOW BARRIER
460 mm – CLB-E+H

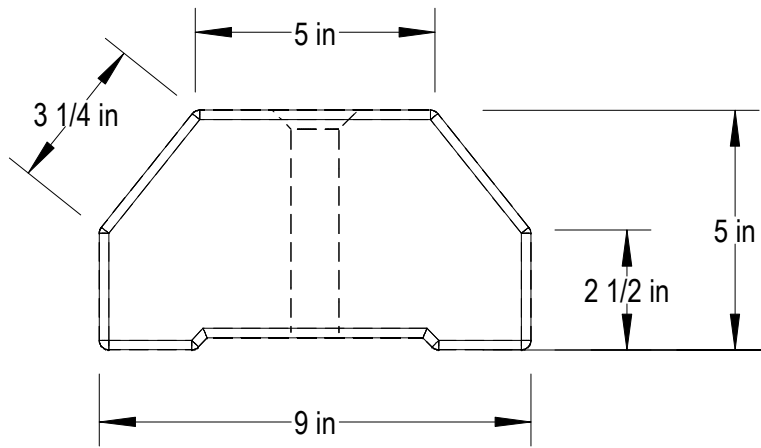
SP941-01.01.02



NOTE: FOR GENERAL NOTES SEE SP941-01.01.01

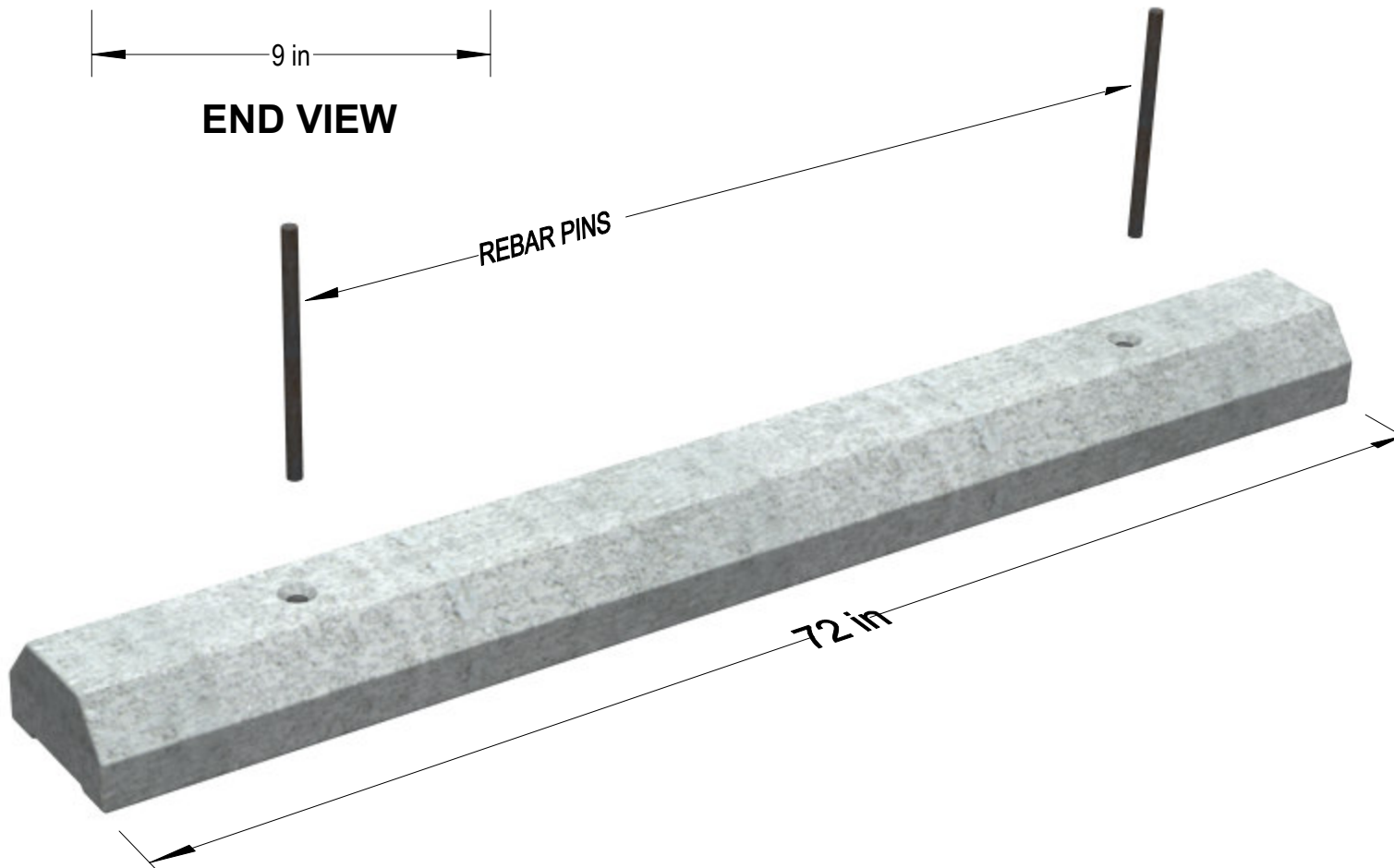
NOT TO SCALE

ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE NOTED



END VIEW

APPROXIMATE WEIGHT: 230 LBS / 104KG



REBAR PINS

72 in

6 FT PARKING CURB

NOT TO SCALE

FEB 18/2009

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