

Technical drawing of a double-deck road bridge cross-section. The drawing shows two levels of roadway separated by a central support wall. Key dimensions and features include:

- Overall Dimensions:**
 - Top roadway width: 125 (left) + 130 (right) = 255
 - Bottom roadway width: 155 (left) + 160 (right) = 315
 - Bridge width at base: 650
 - Bridge height: 1270
 - Clearance from bottom roadway to top of support wall: 420
 - Clearance from bottom roadway to bottom of support wall: 460
 - Clearance from bottom roadway to top of deck: 500 MIN.
- Structural Details:**
 - DOUBLE REAR GUARDRAIL:** Located on the left side of the top roadway.
 - DOUBLE FRONT GUARDRAIL:** Located on the right side of the top roadway.
 - FRONT ROUNDOFF:** Indicated on the right side of the top roadway.
 - Support Wall:** A central wall with a width of 650, divided into 255 and 395 sections.
 - Deck Thickness:** 155 on the left and 160 on the right.
 - Overhangs:** 125 on the left and 130 on the right for the top roadway.
 - Clearance:** 870 from the top of the support wall to the bottom of the top roadway.
 - Force Indication:** A downward arrow labeled "FRI" is shown on the right side of the support wall.

FILLET DETAIL
NTS

Technical drawing of a full parapet profile. The drawing shows a cross-section of a parapet wall with a rounded top. Key dimensions and features include:

- Top Edge:** Labeled "FULL PARAPET PROFILE BEYOND SHOWN DOTTED". The top surface is "FRONT TOP OF ROUNDED 200".
- Vertical Dimensions:**
 - Overall height from the base to the top of the parapet: 1270.
 - Height from the base to the start of the parapet: 420.
 - Height of the parapet section: 620.
 - Height of the parapet section above the base: 200.
 - Height of the parapet section above the base: 135.
 - Height of the parapet section above the base: 145.
- Horizontal Dimensions:**
 - Width of the parapet section: 125.
 - Width of the parapet section: VAR.
 - Width of the parapet section: VARIES.
 - Width of the parapet section: VARIES.
 - Width of the base: 650 SUPPORT WALL.
- Other Features:**
 - A horizontal line labeled "FRL" (Finished Reference Line) is shown at a height of 420 from the base.
 - A circular feature is shown on the left side of the parapet section.
 - A wavy line is shown on the right side of the parapet section.

ANCHOR PLATE
CAST INTO
CONCRETE

40

150

GRADE 8.8
M20 BOLTS

660

BACKING
PLATE

420

110 Ø UPVC
SERVICE DUCT

100

425 SUPP.
WALL

345

384 OHS
SLEEVE

20

170

260

VAR.

600

345

150 VAR.

VAR.

VARIES

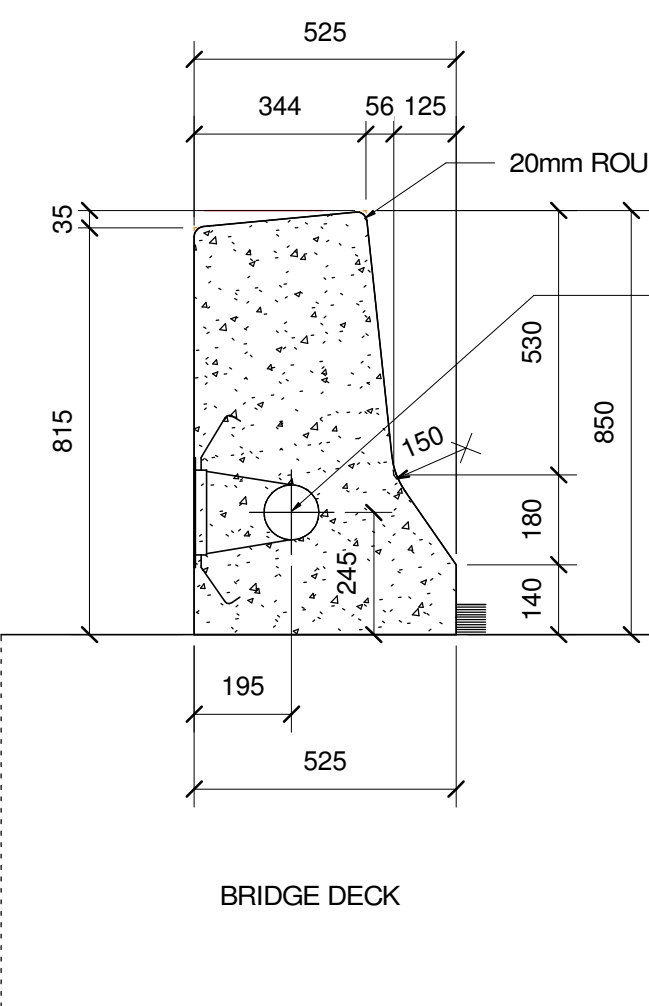
20

TOP CORNERS
ROUNDED 20mm

Technical drawing of a wall section showing dimensions and construction details. The drawing includes the following specifications:

- Overall Dimensions:**
 - Overall Width: 525
 - Overall Height: 810
 - Top Corners Rounded: 20mm
- Internal Dimensions and Features:**
 - Top Left Corner Radius: 345
 - Top Right Corner Radius: 55
 - Right Side Vertical Dimension: 125
 - Left Side Vertical Dimension: 810
 - Bottom Left Corner Radius: 100
 - Bottom Right Corner Radius: 95
 - Bottom Width: 425 SUPP. WALL
 - Internal Vertical Dimension: 150
 - Internal Horizontal Dimension: 150
 - Internal Vertical Dimension: 150
 - Internal Horizontal Dimension: 150
- Construction Details:**
 - 150 RAD. FILLET TO 150 DETAIL
 - FR (Facing Reinforcement)
 - BR (Back Reinforcement)
 - 1" (Thickness)

THE SURFACE DESCRIBED BY POLYGON A-B-C-D-E-F-A IS PLANAR.
SERVICE DUCT LARGE RADIUS BENDS ACHIEVED BY USING
ACCUMULATIVE PLAY IN RUBBER GASKETS OF MULTIPLE STRAIGHT
COUPLERS.



Technical drawing of a parapet cross-section. The drawing shows a parapet with a total height of 850mm. The top section is 500mm high and 6285mm wide. The bottom section is 140mm high and 180mm wide. The parapet is constructed from precast units with a 20mm rounded top. A 110mm diameter service duct is shown. The drawing also indicates the center of the panel and the gap between adjacent precast units (5mm min, 15mm max). A note specifies that for gap width at deck expansion joints, refer to detail drawings of bridge. The drawing is labeled with 'N' for North and 'INSPECTION EYE WHERE REQUIRED (SEE NOTE 1.1)'.

850

500

6285

140

180

110 Ø SERVICE DUCT

INSPECTION EYE WHERE REQUIRED (SEE NOTE 1.1)

20mm ROUNDED

Ø OF PANEL

10

20x20mm CHAMFERS TO VERTICAL EDGES

GAP BETWEEN ADJACENT PRECAST PARAPET UNITS 5mm MIN - 15mm MAX (DESIGN 30mm MAX AFTER CONSTRUCTION FOR GAP WIDTH AT DECK EXPANSION JOINTS REFER TO DETAIL DRAWINGS OF BRIDGE)

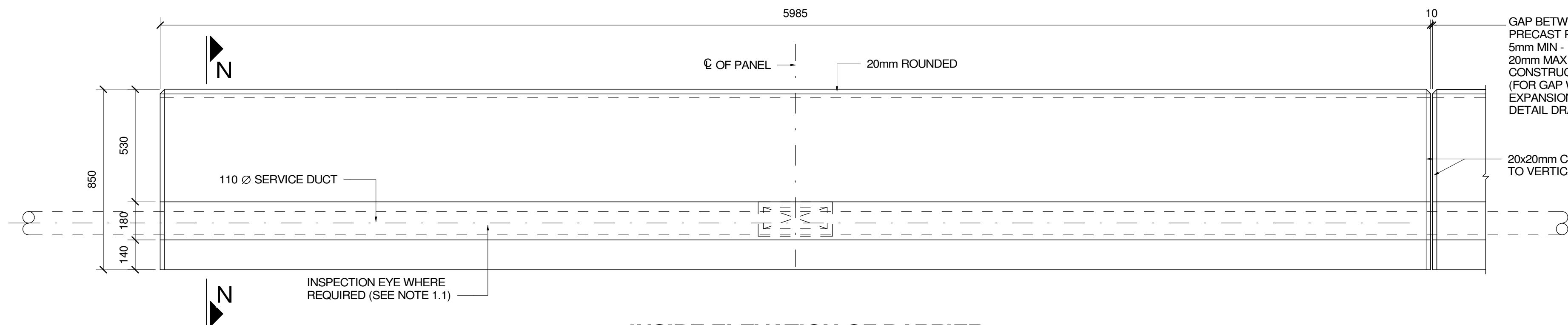
N

NOTES

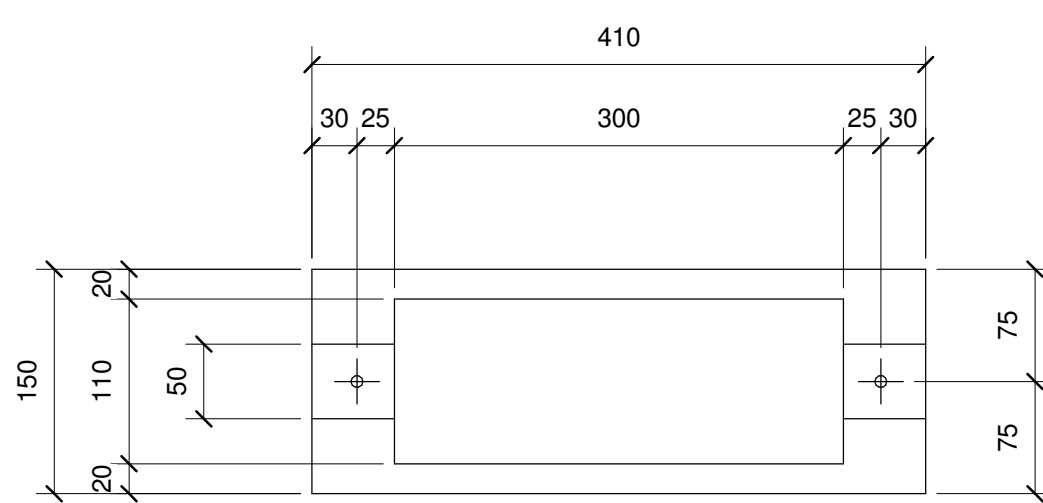
1. **GENERAL**
- 1.1 INSPECTION EYES SHALL BE PROVIDED AT DISTANCES NOT EXCEEDING 50m
- 1.2 THE RECESSES FOR EXPANSION JOINT CONSTRUCTION AND THE EXPANSION JOINT COVER PLATES ARE SUBJECT TO THE DETAILS OF THE EXPANSION JOINT SYSTEM FINALLY APPROVED. THE CONTRACTOR SHALL CONFIRM THE DIMENSIONS OF THE RECESSES WITH THE ENGINEER PRIOR TO THE CASTING OF THE BARRIER.
- 1.3 "T = 60mm MIN (20mm LEVELLING COURSE + 40mm ASPHALT) OR 100mm MAX (20mm LEVELLING COURSE + 2x40mm ASPHALT)"

2 MATERIAL AND FINISHES

- 2.1 THE MATERIAL AND WORK SHALL COMPLY WITH THE RELEVANT CLAUSES OF SERIES 6000 AND 8000 OF THE STANDARD SPECIFICATIONS, THE PROJECT SPECIFICATIONS AND SHALL INCLUDE THE FOLLOWING:
- 2.2 SERVICE DUCTS : 110 Ø uPVC NORMAL DUTY (SDR 51) PIPES TO SANS 791:200
- 2.3 CONCRETE CLASS (MPa/mm) : W30/19 UNLESS DURABILITY CONCRETE IS NOT REQUIRED (EXPOSURE CLASS XC1a)
- 2.4 SURFACE FINISHES : (EXPOSED FACES)
 - CLASS F3 - STEEL SHUTTER FINISH
 - CLASS U3 - STEEL TROWEL FINISH
- 2.5 ALL EXPOSED VERTICAL SHARP CORNERS SHALL BE CHAMFERED 20 x 20mm AND ROUNDED 20mm HORIZONTALLY EXCEPT WHERE OTHERWISE INDICATED ON DETAIL DRAWING.
- 2.6 THE DRAW WIRE PROVIDED IN THE SERVICE DUCTS SHALL BE IN ONE CONTINUOUS LENGTH, EXTENDING NOT LESS THAN 3m BEYOND THE END FACE OF THE ABUTMENT END BLOCKS. THE DRAW WIRE SHALL BE NON CORRODABLE NYLON ROPE OR PVC COATED STEEL WIRE OF NOT LESS THAN 5000N TENSILE STRENGTH.



ELEVATION OF INSPECTION EYE RECESS



SECTION N-N

INSIDE ELEVATION OF BARRIER

[illegible]