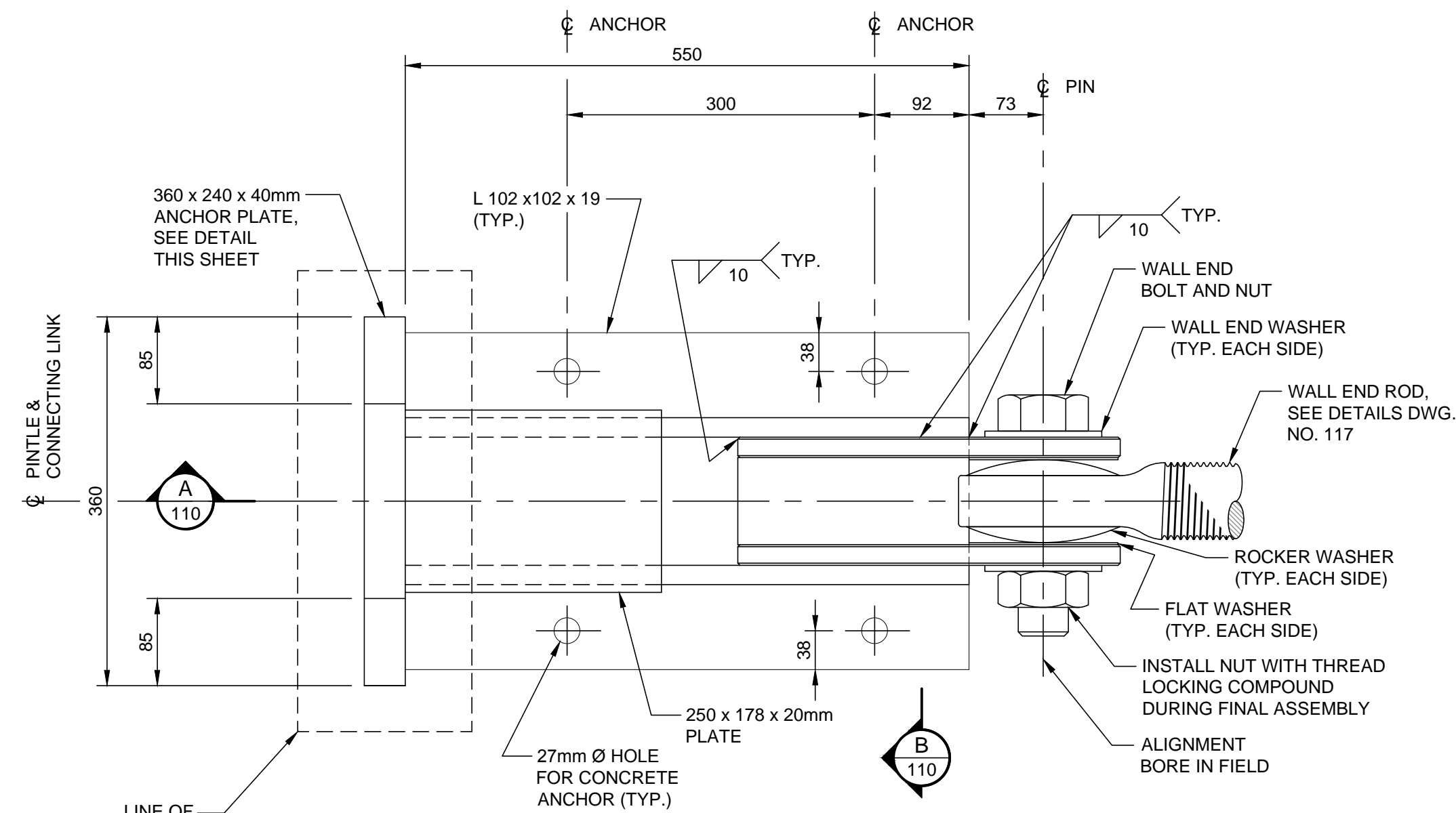
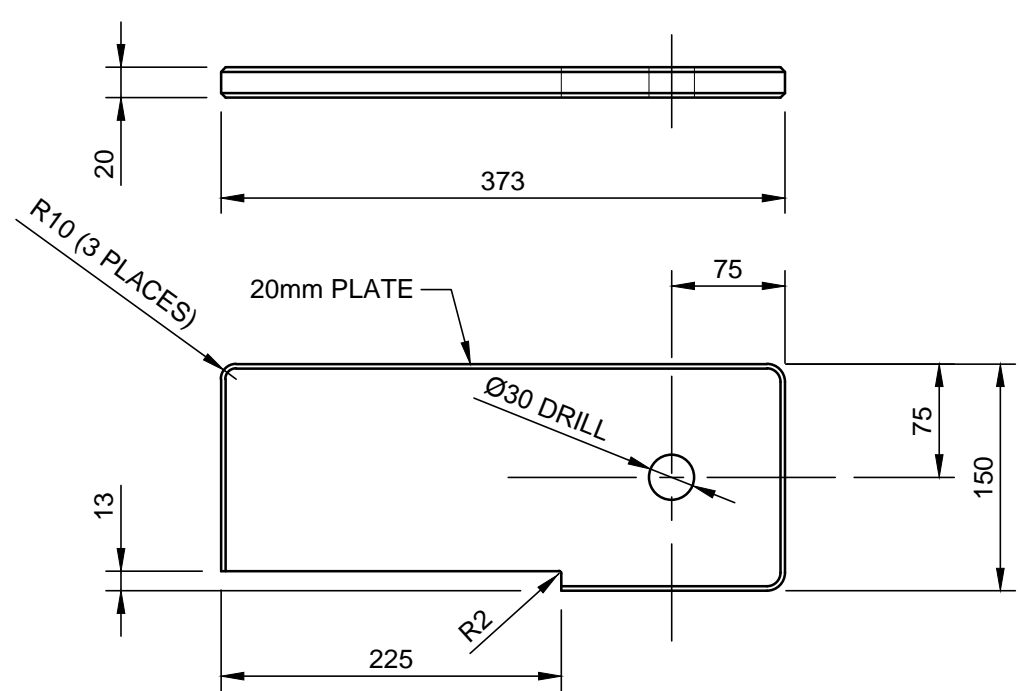


**PLAN - EMBEDDED ANCHORAGE LAYOUT**  
1:10  
(WEST SIDE SHOWN, EAST SIDE OPPOSITE HAND)

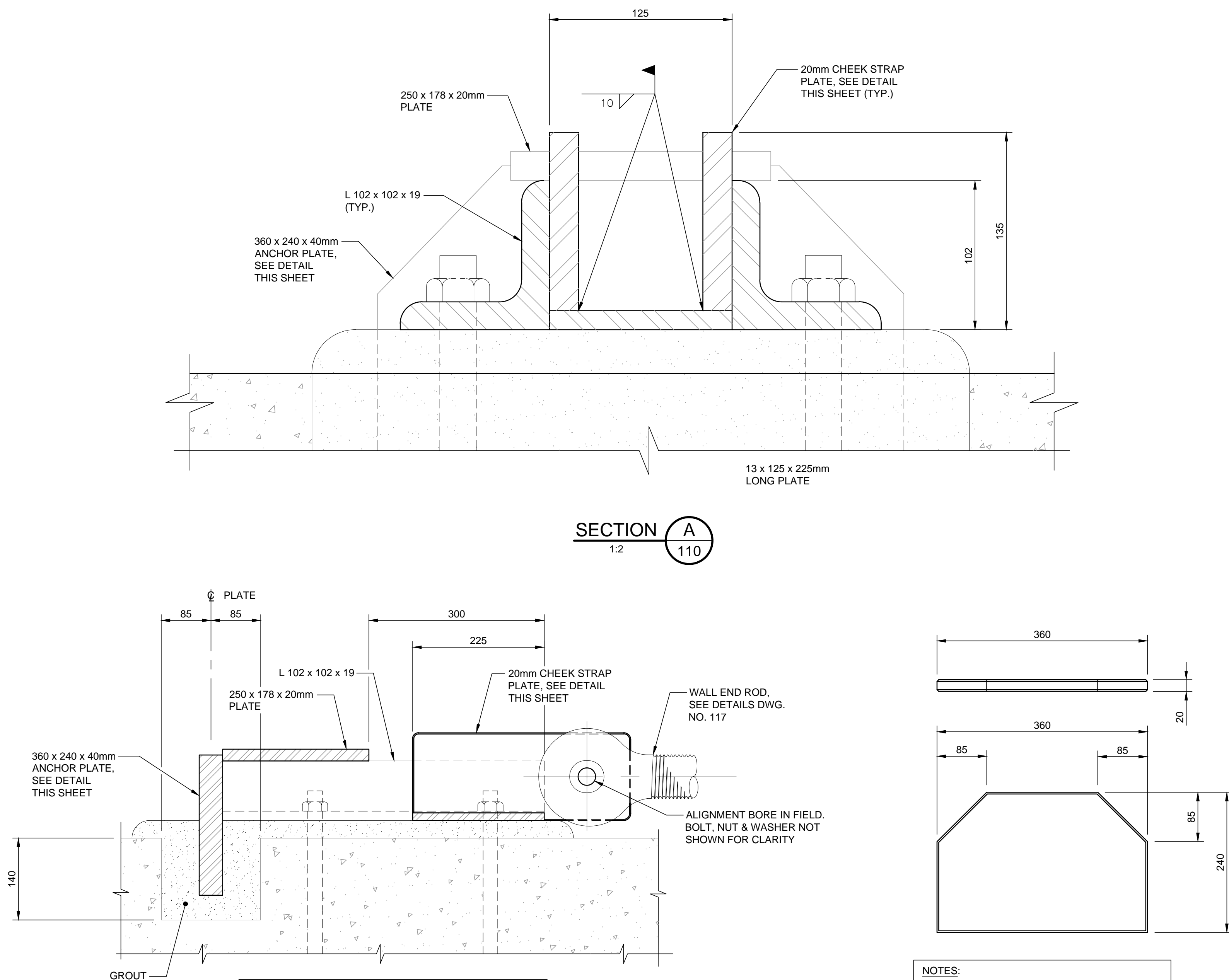


**PLAN - EMBEDDED ANCHOR**  
1:5



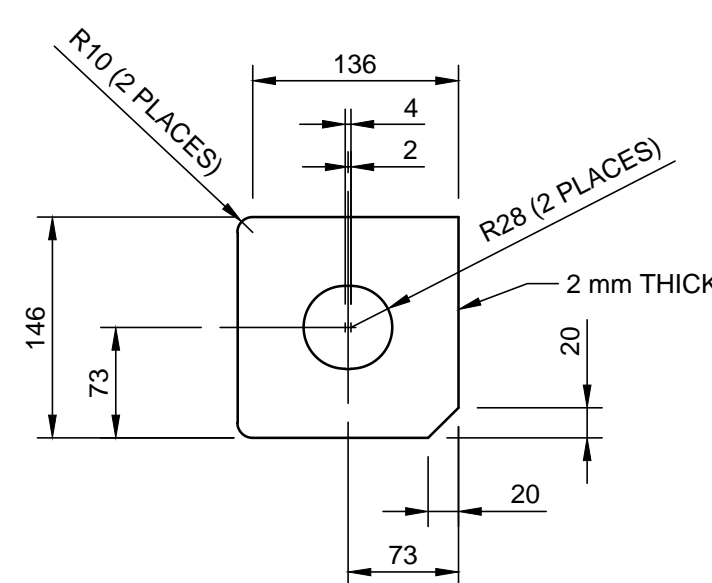
**CHEEK STRAP PLATE DETAILS**  
1:2

- NOTES:**
- 1) MATERIAL - AISI 4340 ALLOY STEEL.
  - 2) PAINT - WELDABLE PRE-PRIMER (DO NOT PAINT INSIDE OF HOLE).
  - 3) EDGES TO HAVE 3 mm CHAMFER AS SHOWN.
  - 4) ALIGNMENT BORE HOLE IN FIELD TO FINAL Ø55.0 DIAMETER.
  - 5) QUANTITY OF EIGHT (8) REQUIRED.



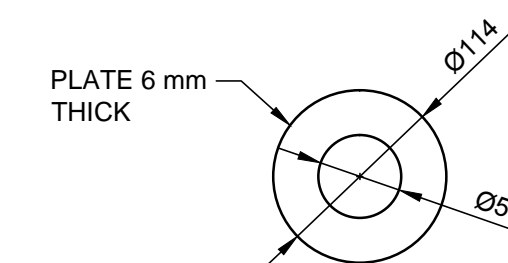
- NOTES:**
- 1) MATERIAL - AISI 4340 ALLOY STEEL.
  - 2) PAINT - WELDABLE PRE-PRIMER
  - 3) EDGES TO HAVE 3 mm CHAMFER AS SHOWN.
  - 5) QUANTITY OF FOUR (4) REQUIRED.

**ANCHOR PLATE DETAIL**  
1:5



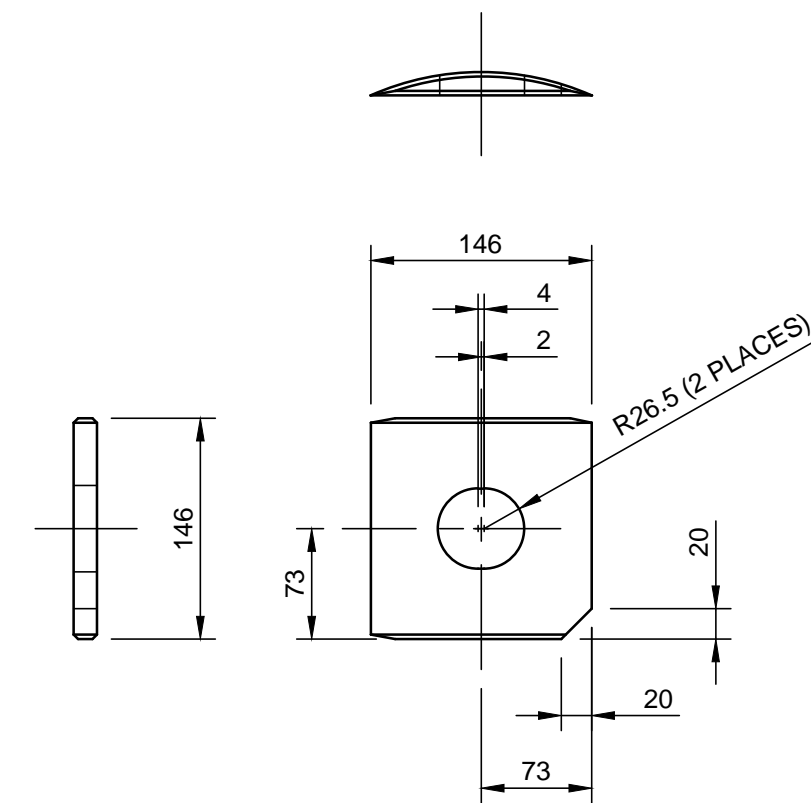
- NOTES:**
- 1) MATERIAL - UHMWPE, OIL FILLED.
  - 2) EDGES TO BE GROUND SMOOTH AND FREE OF BURRS.
  - 3) QUANTITY OF TEN (10) REQUIRED.

**FLAT WASHER DETAIL**  
1:5



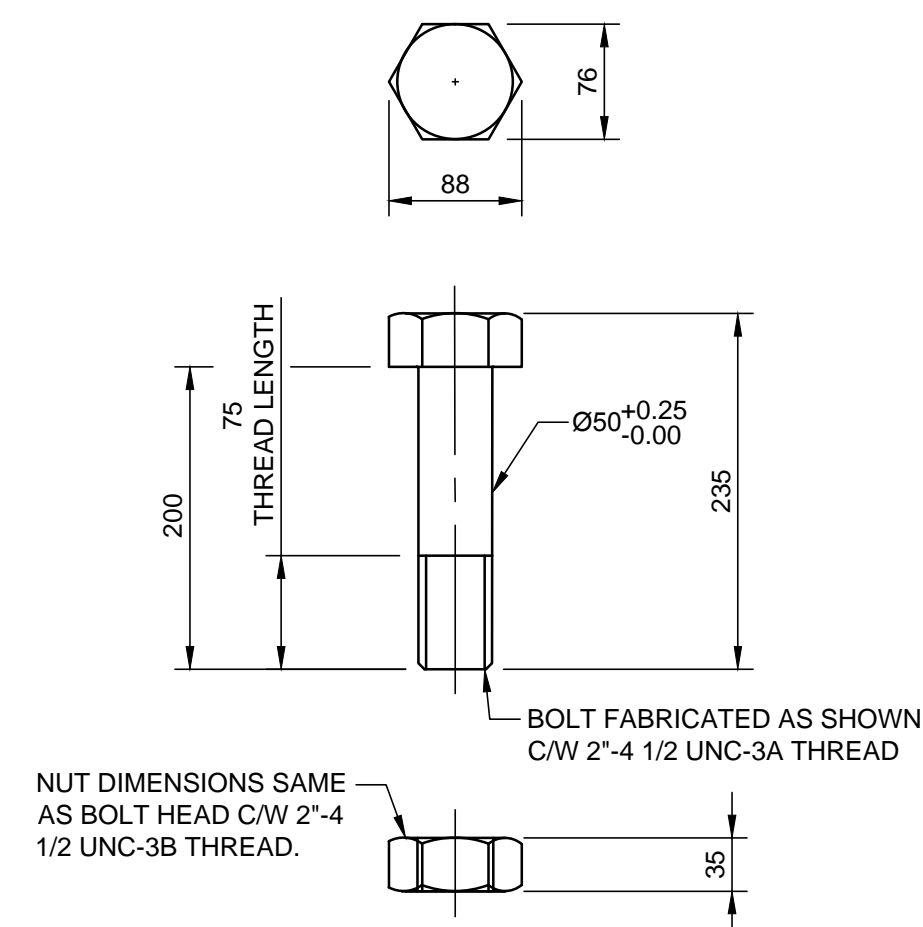
- NOTES:**
- 1) MATERIAL - MILD STEEL.
  - 2) PAINT - BLACK.
  - 3) EDGES TO BE GROUND SMOOTH AND FREE OF BURRS.
  - 4) QUANTITY OF TWENTY (20) REQUIRED.

**WALL END WASHER DETAIL**  
1:5



- NOTES**
- 1) MATERIAL - UHMWPE, OIL FILLED.
  - 2) EDGES TO HAVE 3 mm CHAMFER AS SHOWN.
  - 3) QUANTITY OF TEN (10) REQUIRED - FIVE (5) AS SHOWN AND FIVE (5) OPPOSITE HAND.

**ROCKER WASHER DETAIL**  
1:5



- NOTES**
- 1) MATERIAL - STRONGER AISI 4340 ALLOY STEEL.
  - 2) PRIMER AND ALKYD ON BOLT HEAD AND NUT ONLY DO NOT PAINT THREADS OR MACHINED LENGTH.
  - 3) CHAMFER 3 mm AS SHOWN (3 PLACES).
  - 4) QUANTITY OF TEN (10) REQUIRED.
  - 5) STRONGER MATERIAL THAN OTHER STEEL PARTS. SEE GENERAL NOTES

**WALL END NUT AND BOLT DETAIL**  
1:5

**GENERAL NOTES:**

ALLOY STEEL AISI 4340 QUENCHED AND TEMPERED TO ACHIEVE THE FOLLOWING PROPERTIES:

1. MINIMUM YIELD: 689 MPa.
2. TENSILE STRENGTH: 862 MPa TO 965 MPa.
3. CHARTY IMPACT: AT -29 DEGREES CELCIUS, AVERAGE OF THREE TESTS, MINIMUM 27 JOULES WITH ALL INDIVIDUAL TESTS ABOVE 20 JOULES.
4. FERRITIC GRAIN STRUCTURE.
5. SUBMIT ALL DATA BEFORE PURCHASE.

**ALLOY STEEL FOR WALL END BOLT AND NUT**

AISI 4340 QUENCHED AND TEMPERED TO ACHIEVE THE FOLLOWING PROPERTIES:

1. MINIMUM YIELD: 825 MPa.
2. TENSILE STRENGTH: 931 MPa TO 1000 MPa.
3. ALL OTHER PROPERTIES SAME AS ABOVE.

1	ISSUED FOR TENDER	DMR	JULY 2015
No.	Description	Dwn.By Des.Par	Date
Revision / Révision			

**NOTE :**  
Do not scale drawings.  
Verify all dimensions and conditions on site and immediately notify the Departmental Representative of all discrepancies.

A	A Detail number Numéro du détail
B	B Location dwg. number Numéro sur dessin

Project title / Titre du projet

**RIDEAU CANAL  
BLACK RAPIDS LOCK 13  
UPGRADES 2015**

Drawing title / Titre du dessin

**LOWER GATE  
TOP ANCHORAGE &  
CYLINDER PIT DETAILS IV**

Drawn by / Dessiné par <b>DAVID ROWAN</b>	Designed by / Conçu par <b>LUC BÉRIALTY, P.Eng.</b> <b>CZESLAW CUDOWSKI, P.Eng.</b>
Approved by / Approuvé par <b>LUC BÉRIALTY, P.Eng.</b>	Drawing Date / Date du dessin <b>JUNE 2015</b>

PWGSC Project Number / Numéro du projet TPSGC <b>R.078218.001</b>	Drawing Number / Numéro du Dessin <b>110</b> Sheet Feuille 11 of 21
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