

10-10

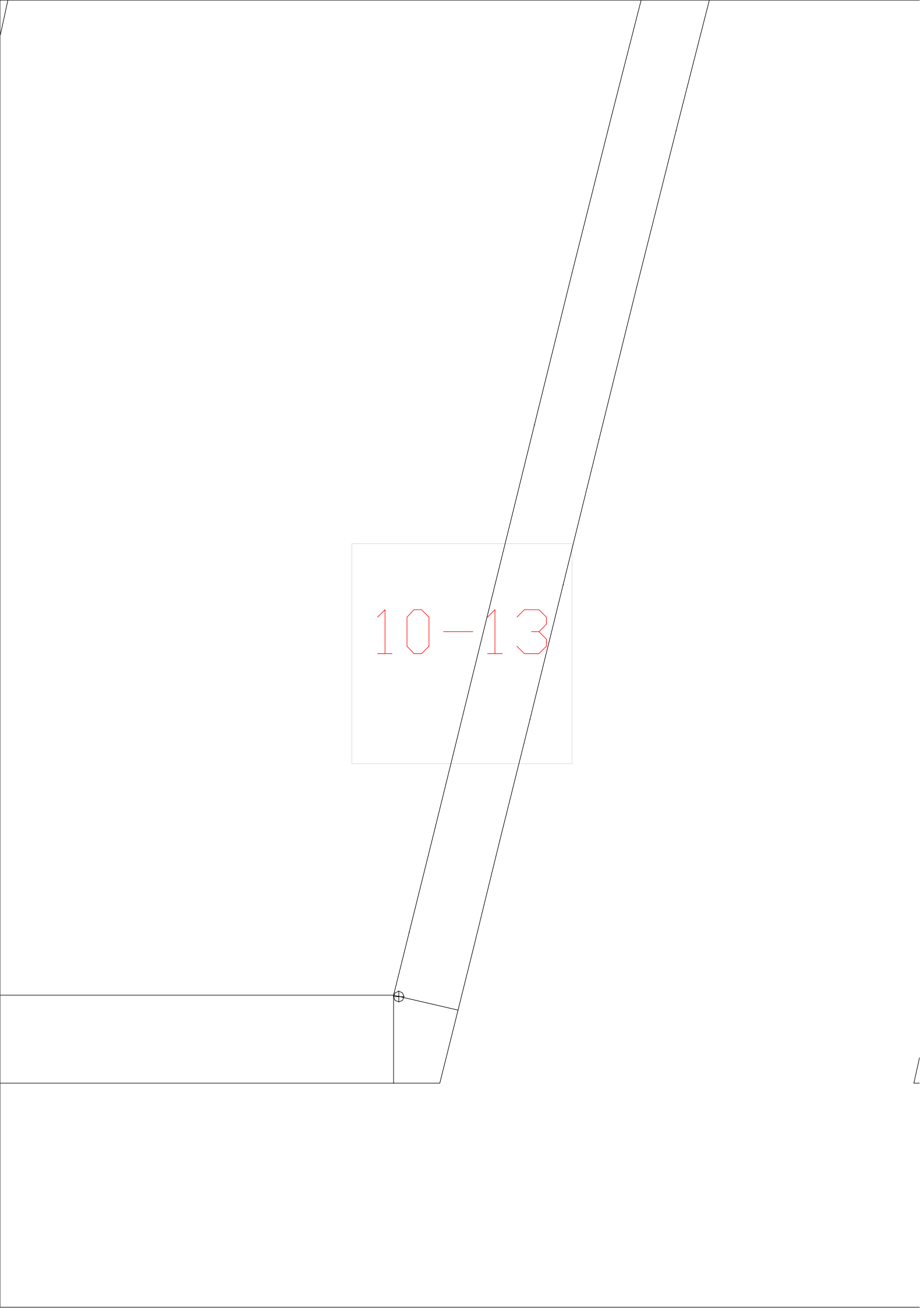
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10-11



10-12

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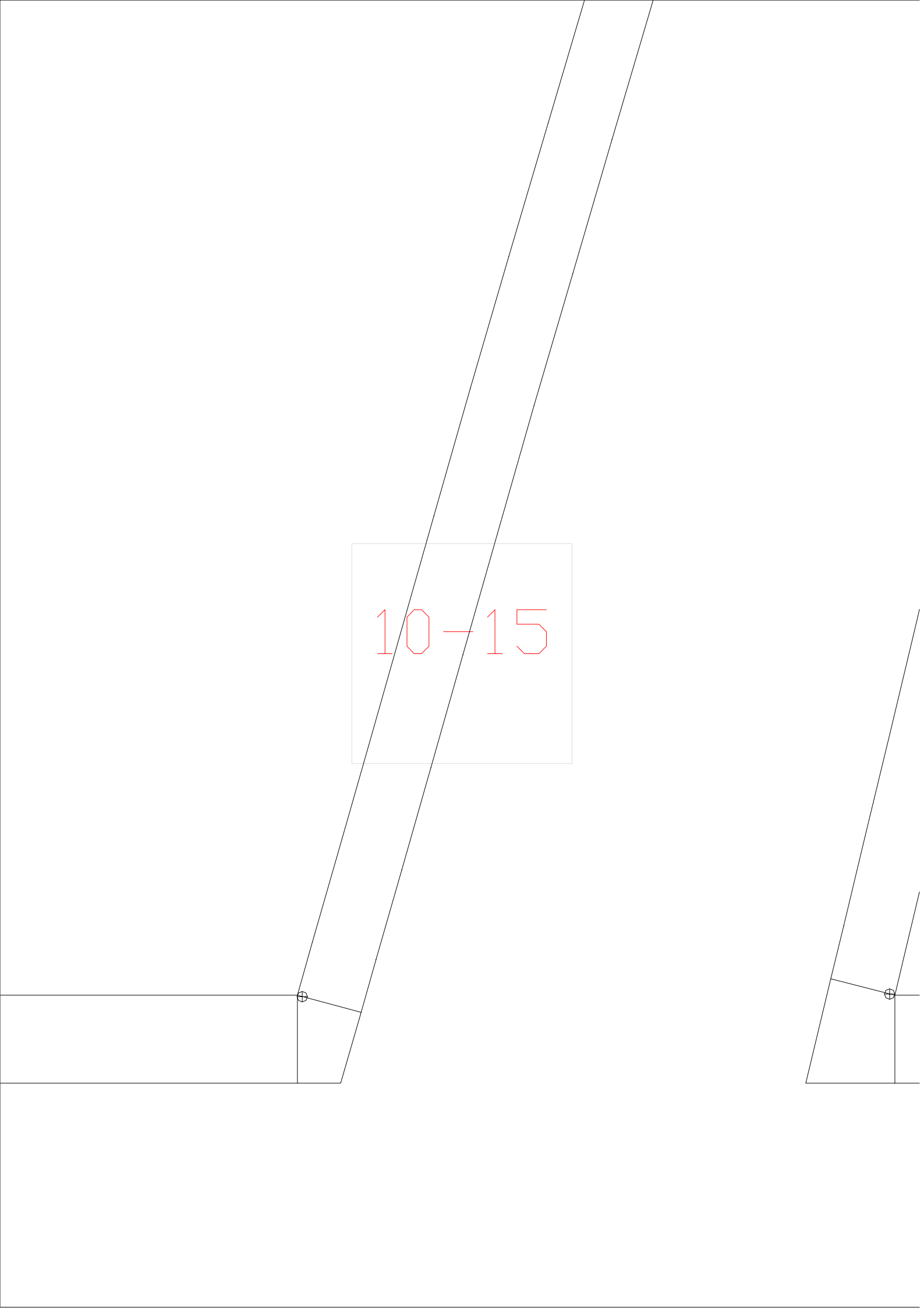


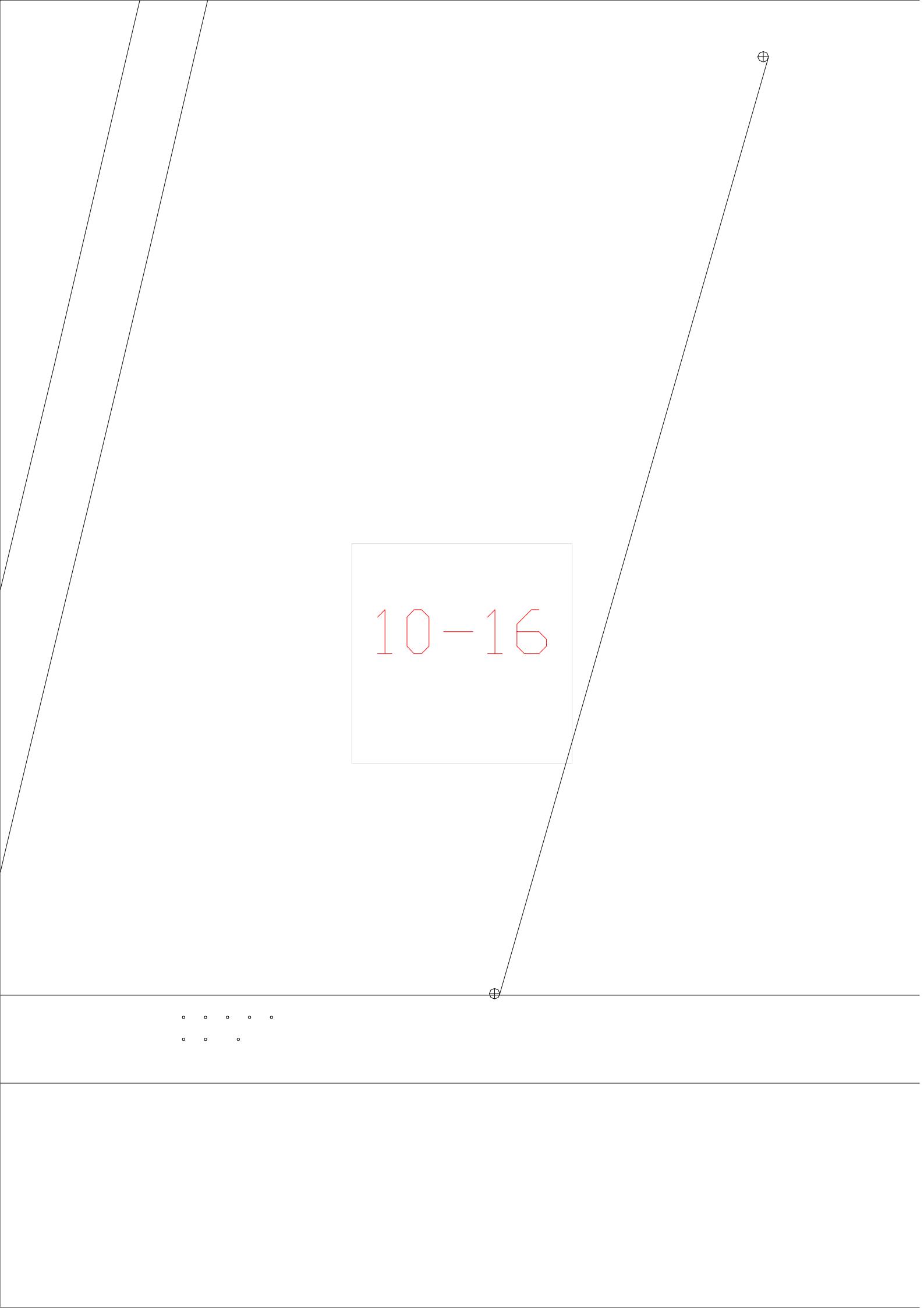
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10-14

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10-15

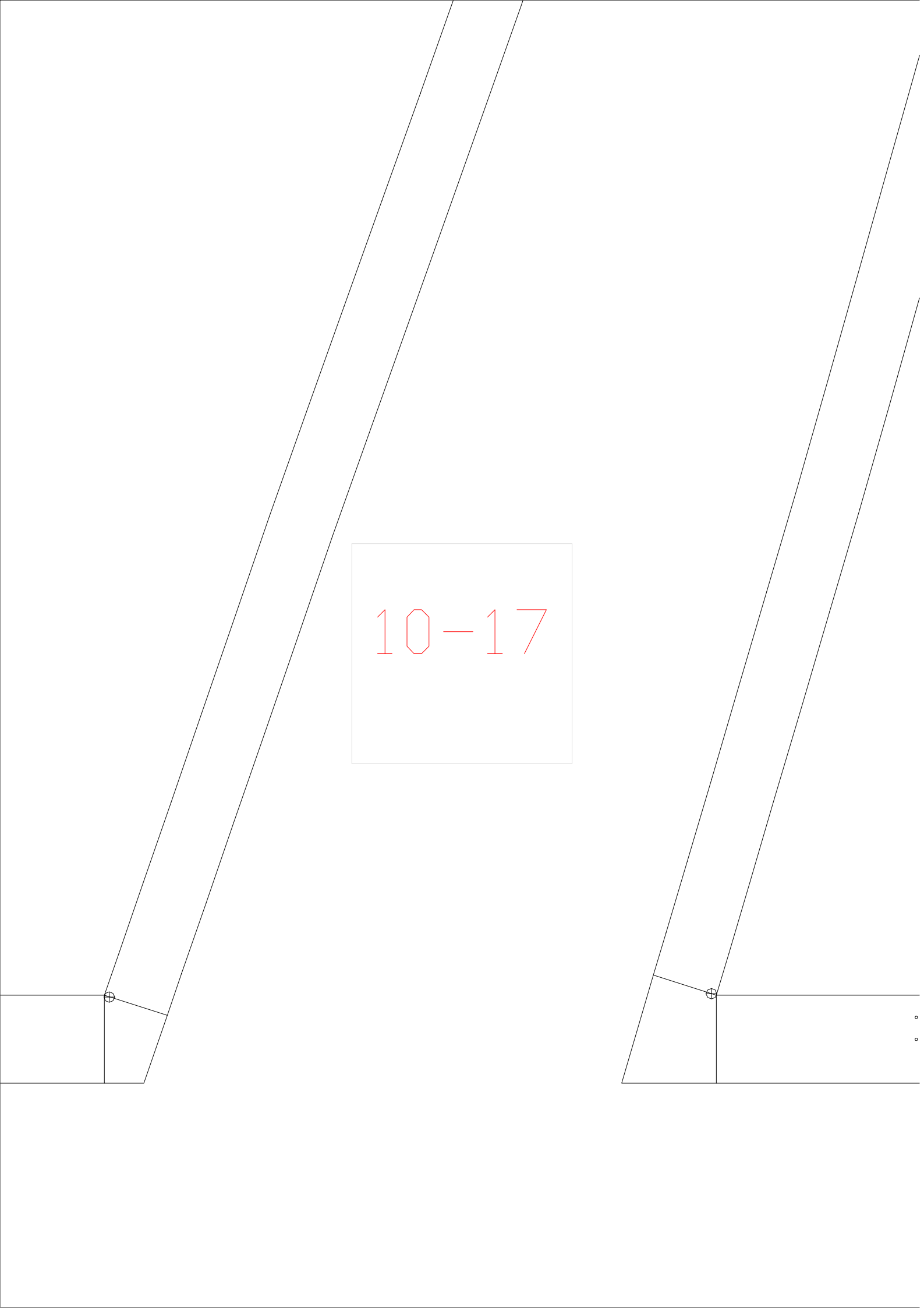




10-16

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10-17



10-18



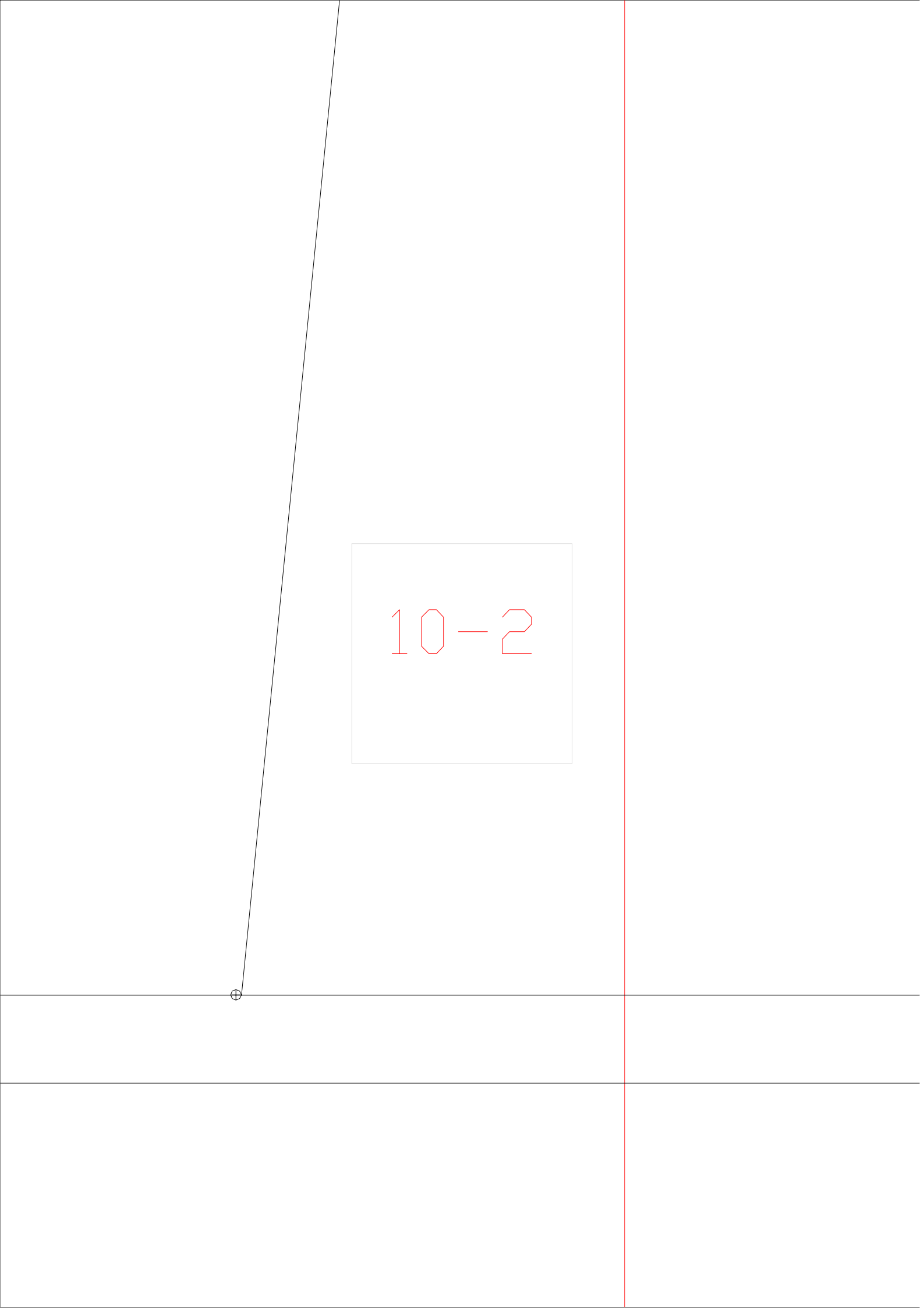
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10-19

10-1

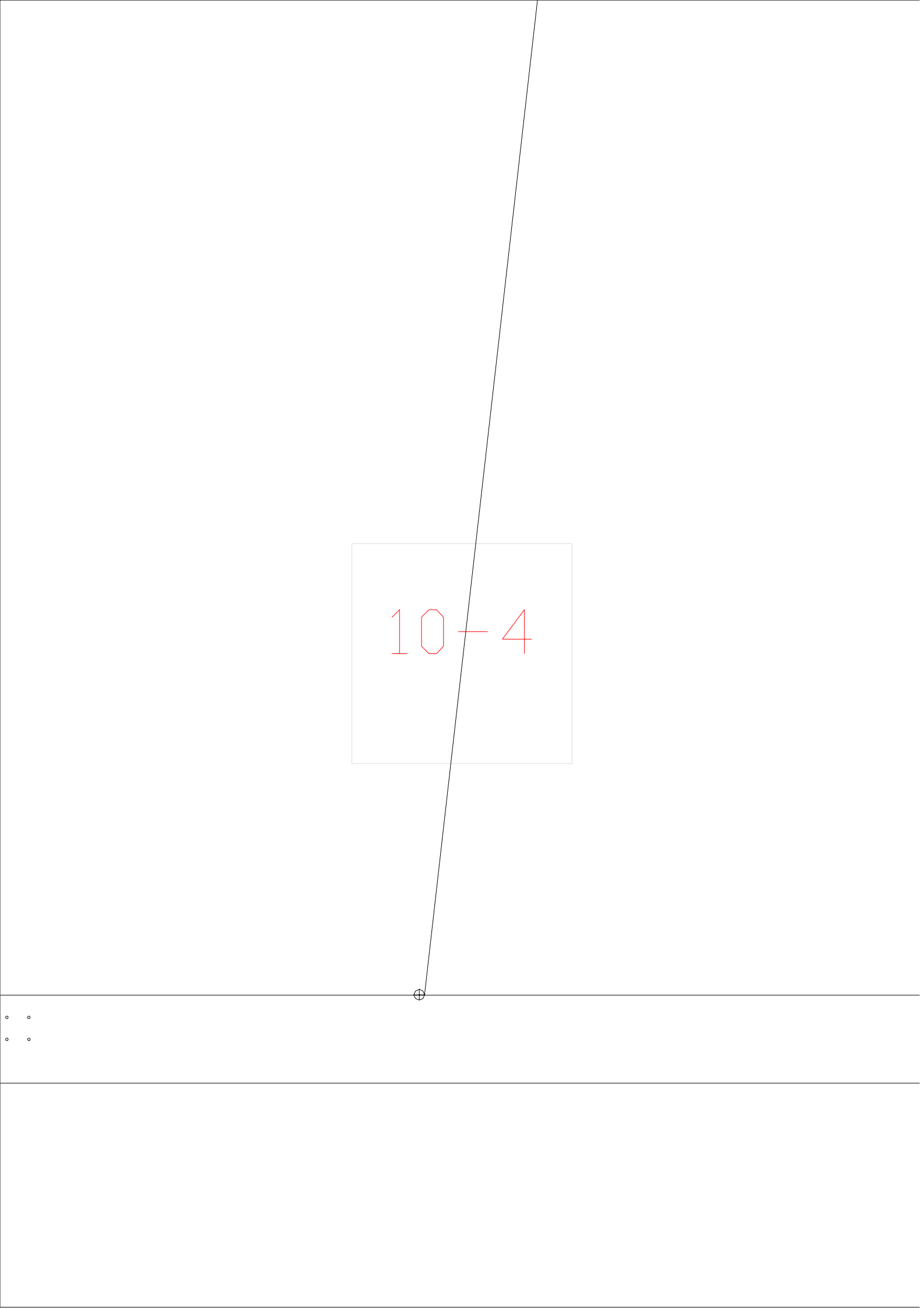


10-20



10-2

10-3



$10-4$

10-5



10-6

• • •
• •

⊕

10-7

$$10 - 8$$

• • • •
• •

10-9

⊕

1-10

11-10

$$11 - 11$$

11-12

11-13

11-14

11-15

11-16

11-17

11-18

11-19

1-11

11-20

1-12

11-2

1-13

11-3

$$11 - 4$$

1-15

11-5

1-16

11-6

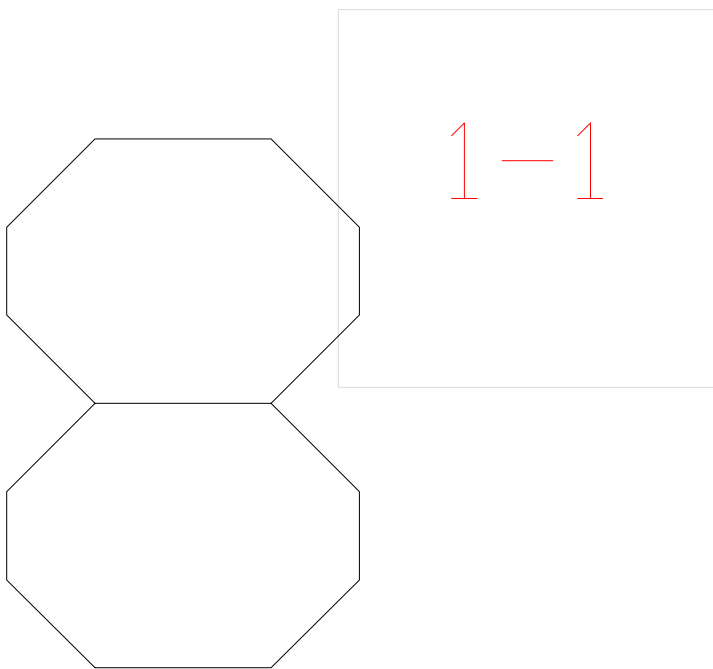
$$11 - 7$$

1-18

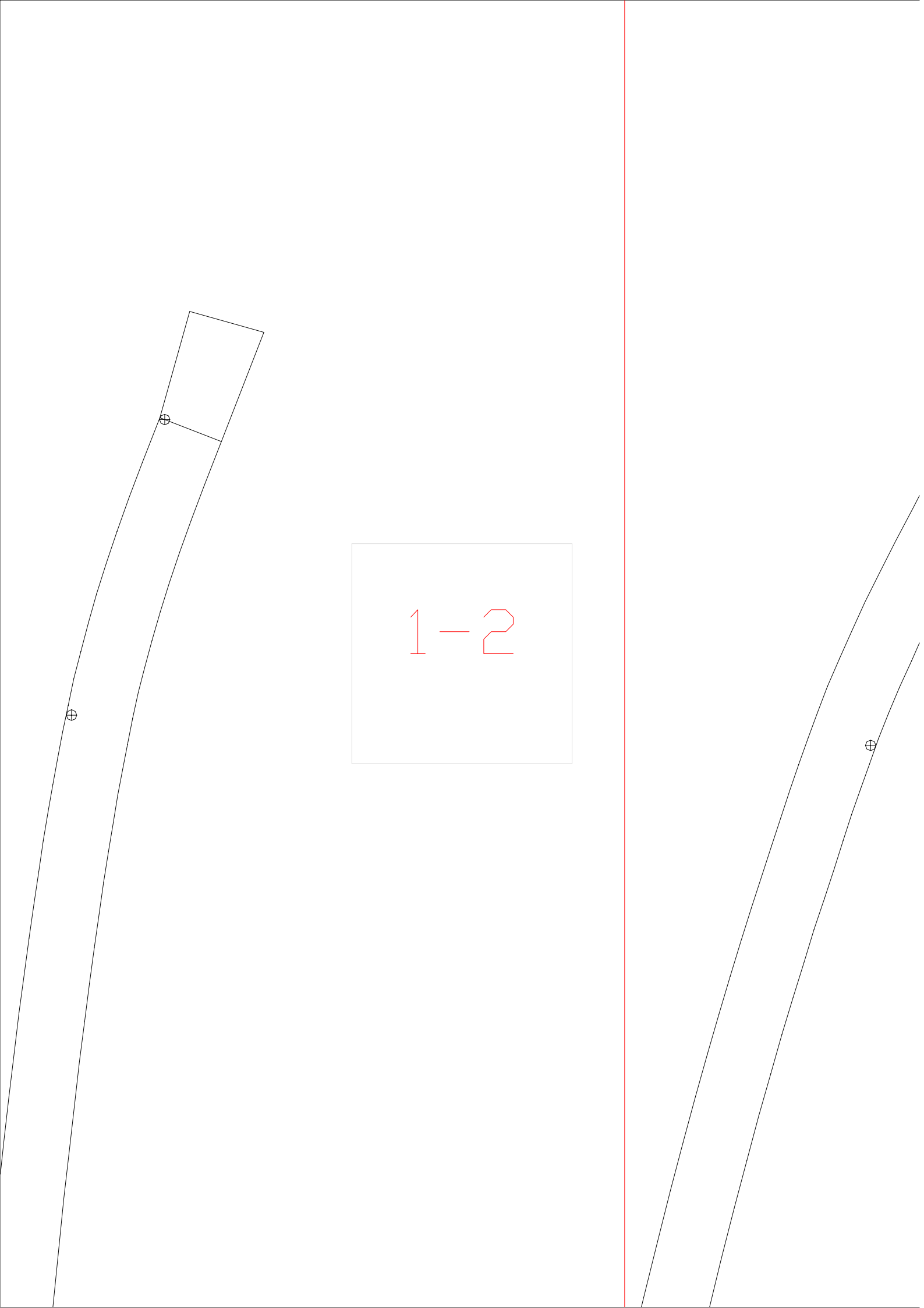
$$11 - 8$$

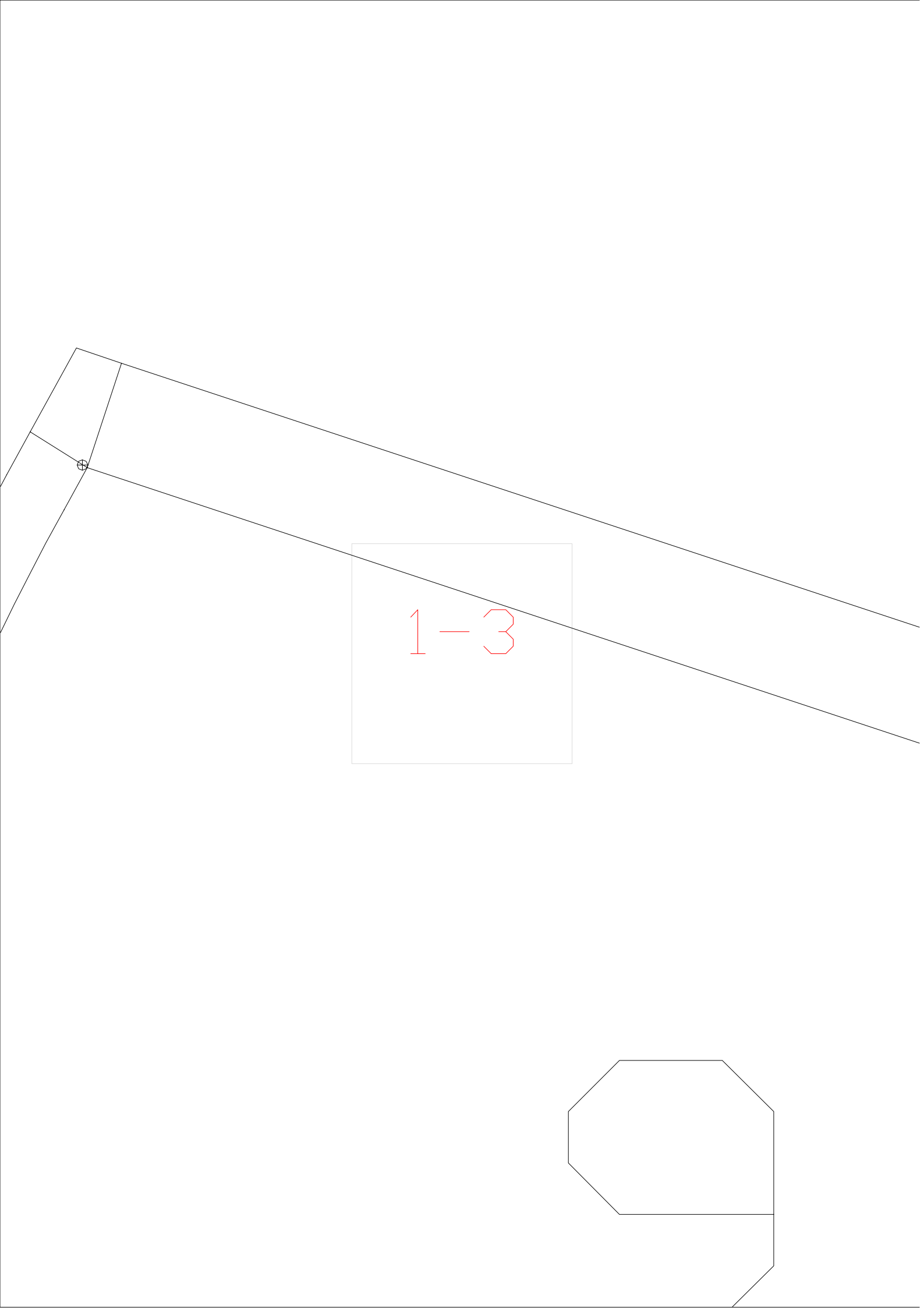
1-19

11-9



1-20

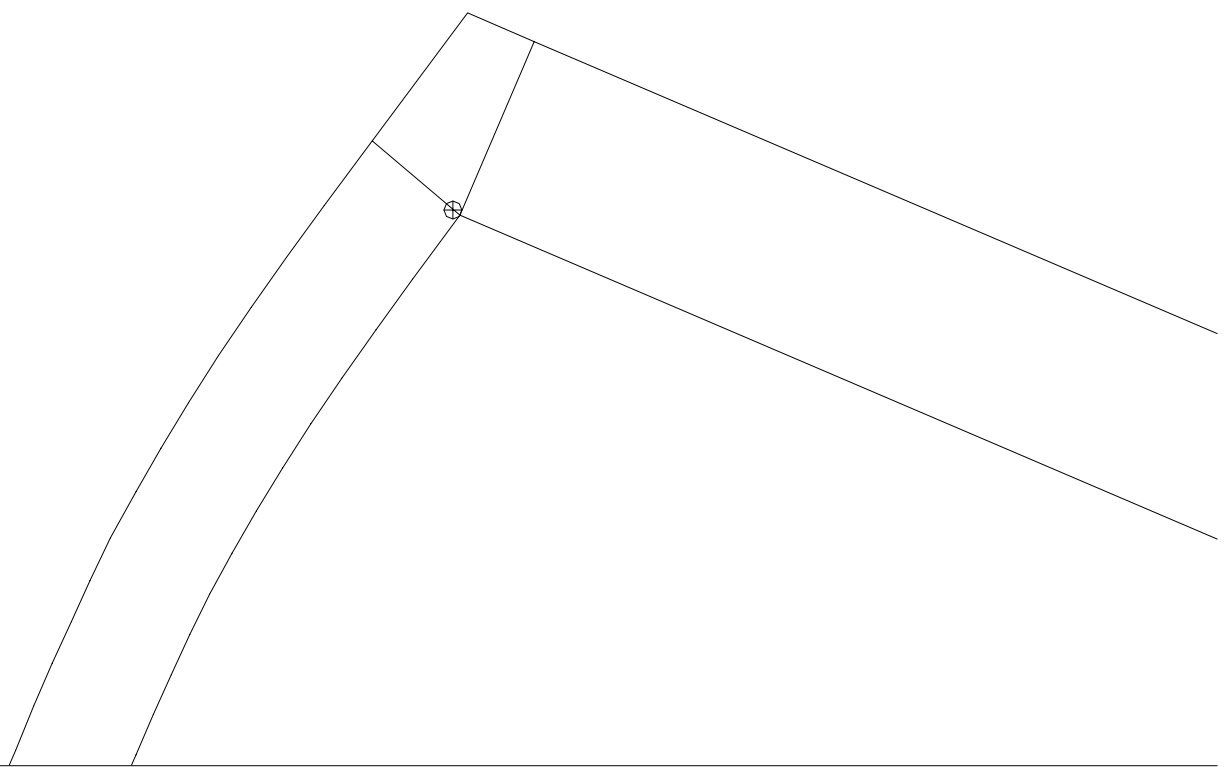




1-4



1-5



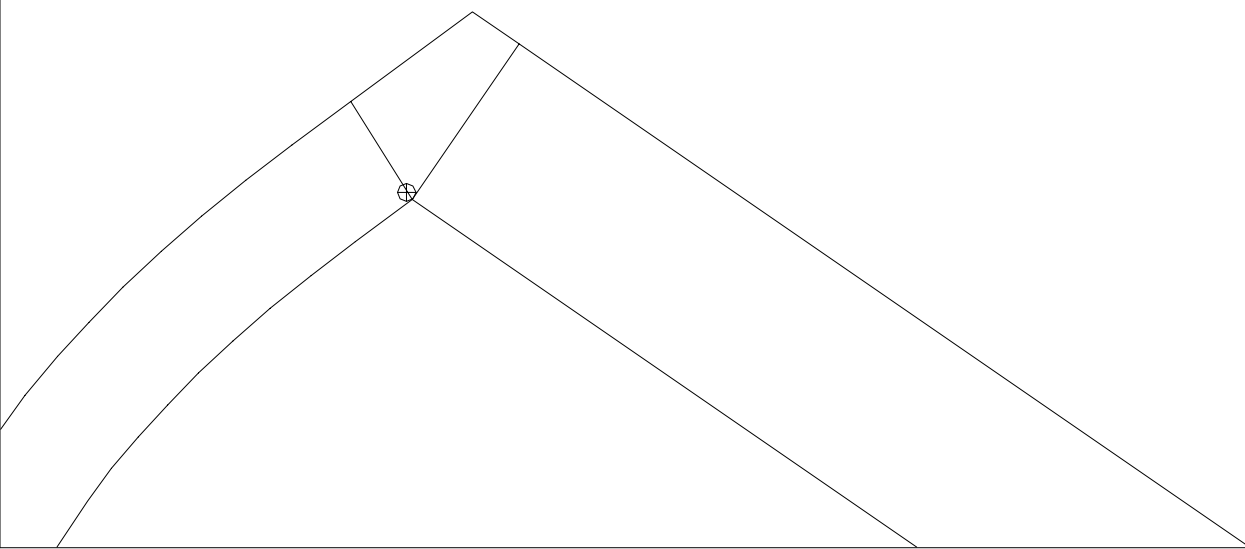
1-6

1-7

1-8

1-9

2-10



2-11

2-12

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2-14

2-15

2-16

2-17

2-18

2-19

2-1

⊕

2-20

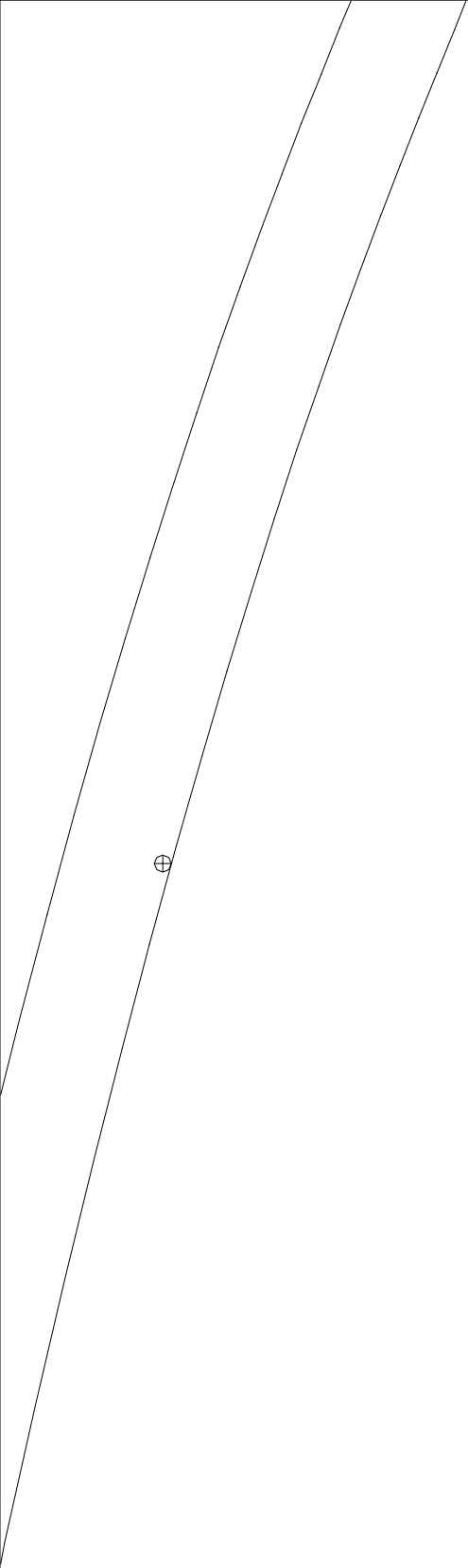
2-2

⊕

2-3

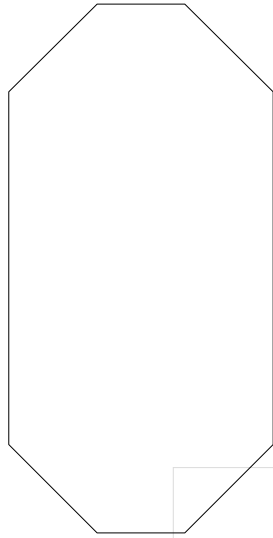
\oplus

2-4



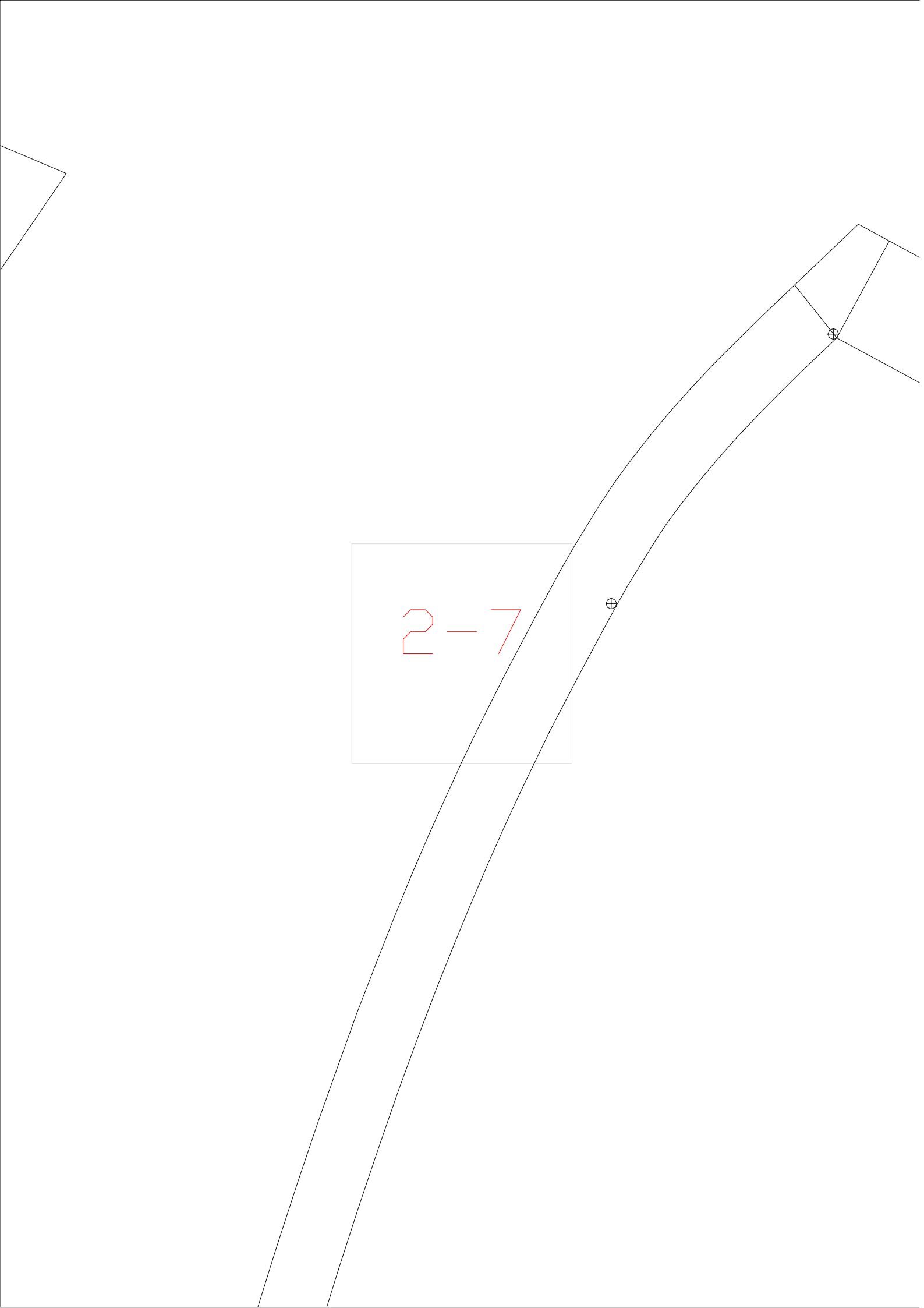
$$2-5$$

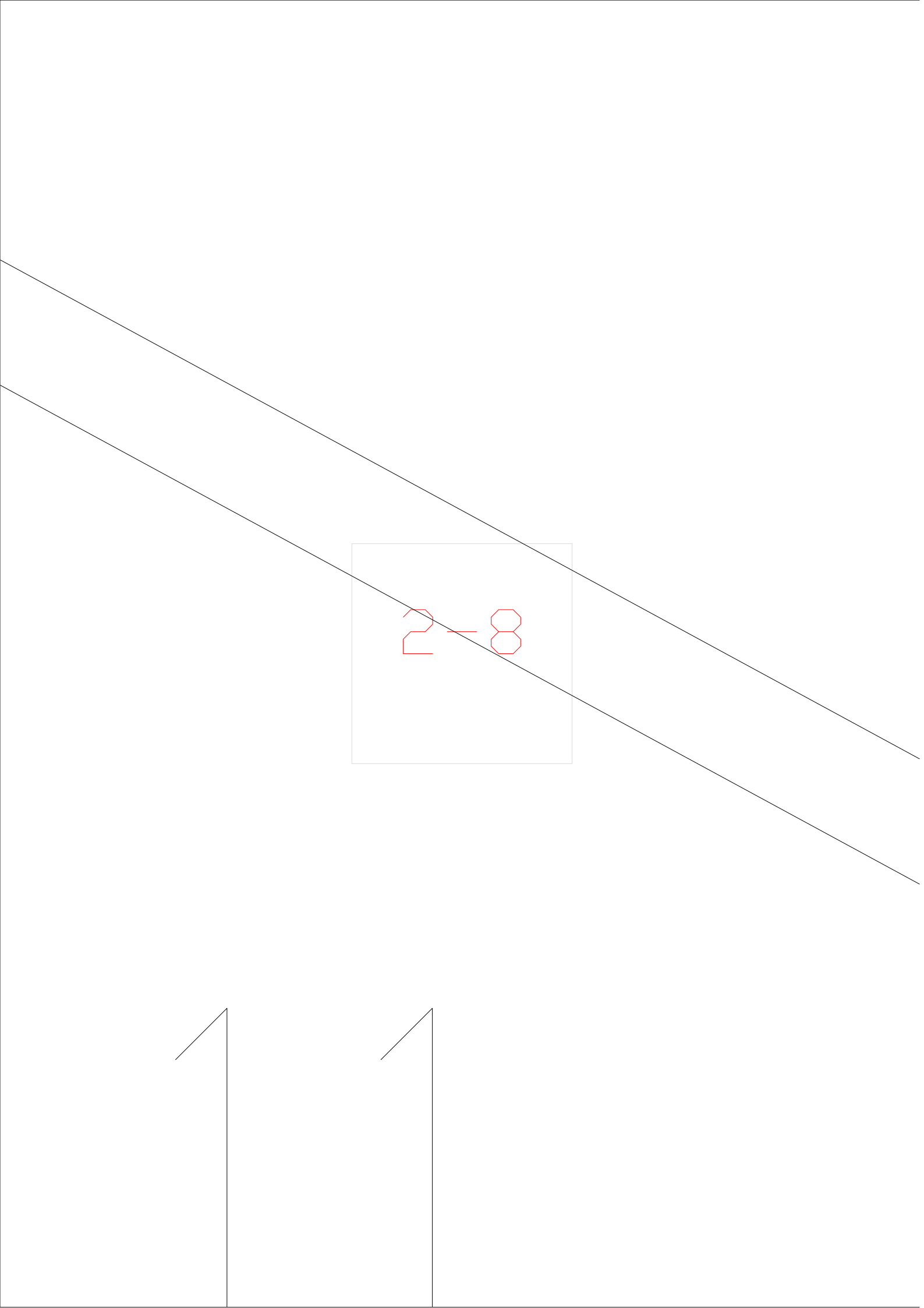
1



2-6

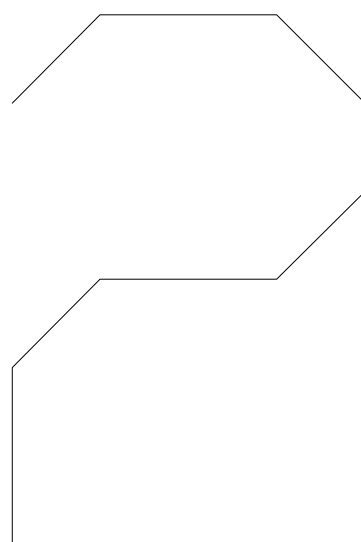
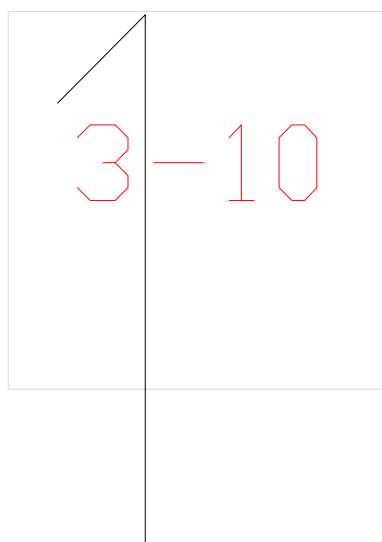


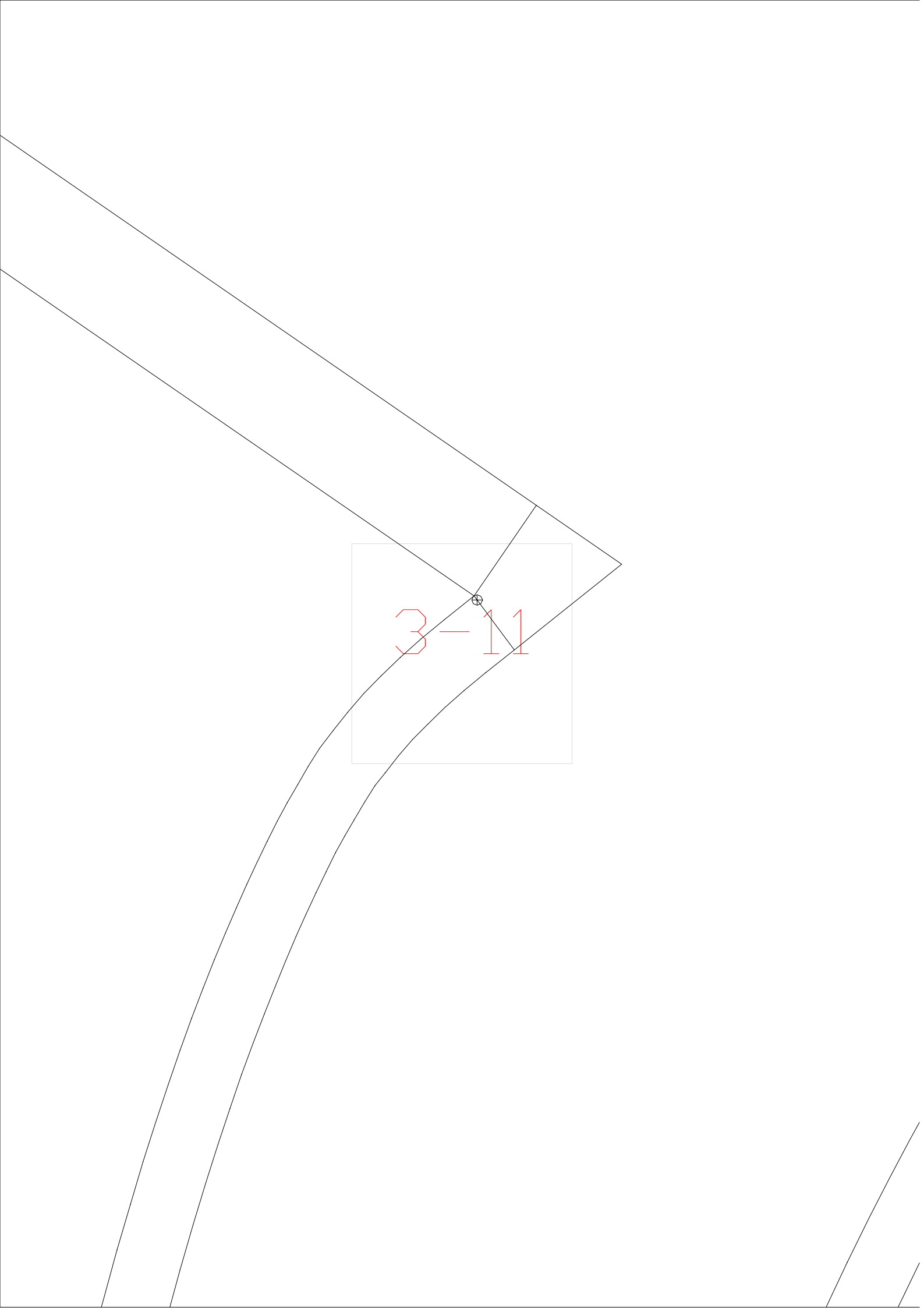


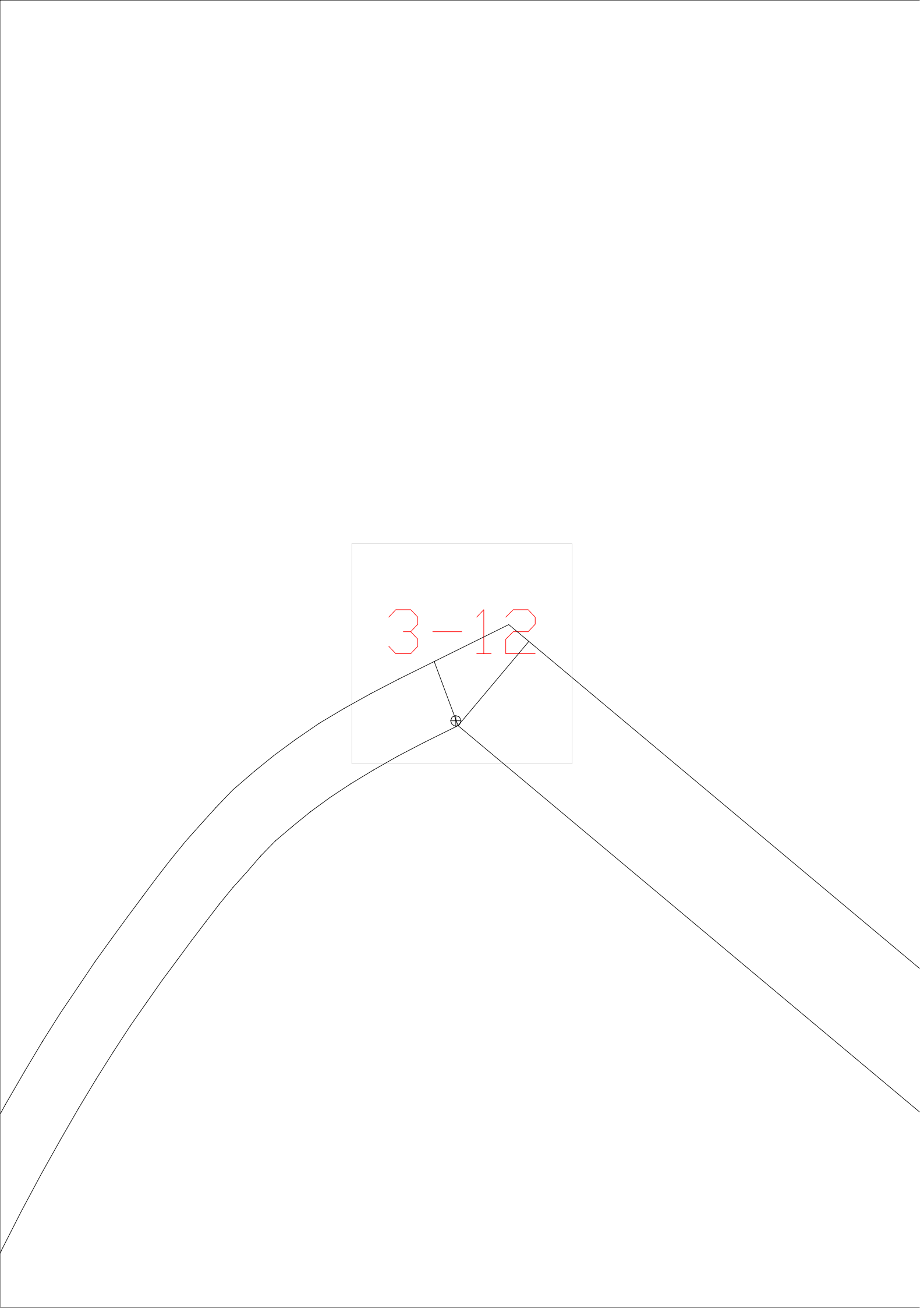


2-9









3-13

3-14

3-15

3-16

3-17

3-18

3-19

3-1

⊕

3-20

⊕

3-2

3-3

3-4

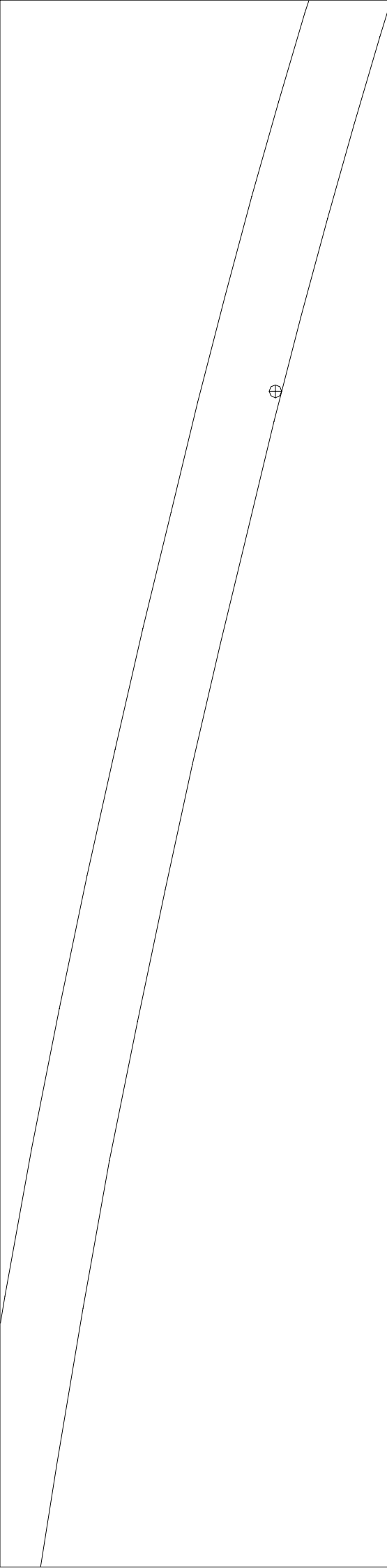
\oplus

\oplus

3-5

3-6

⊕



3-7

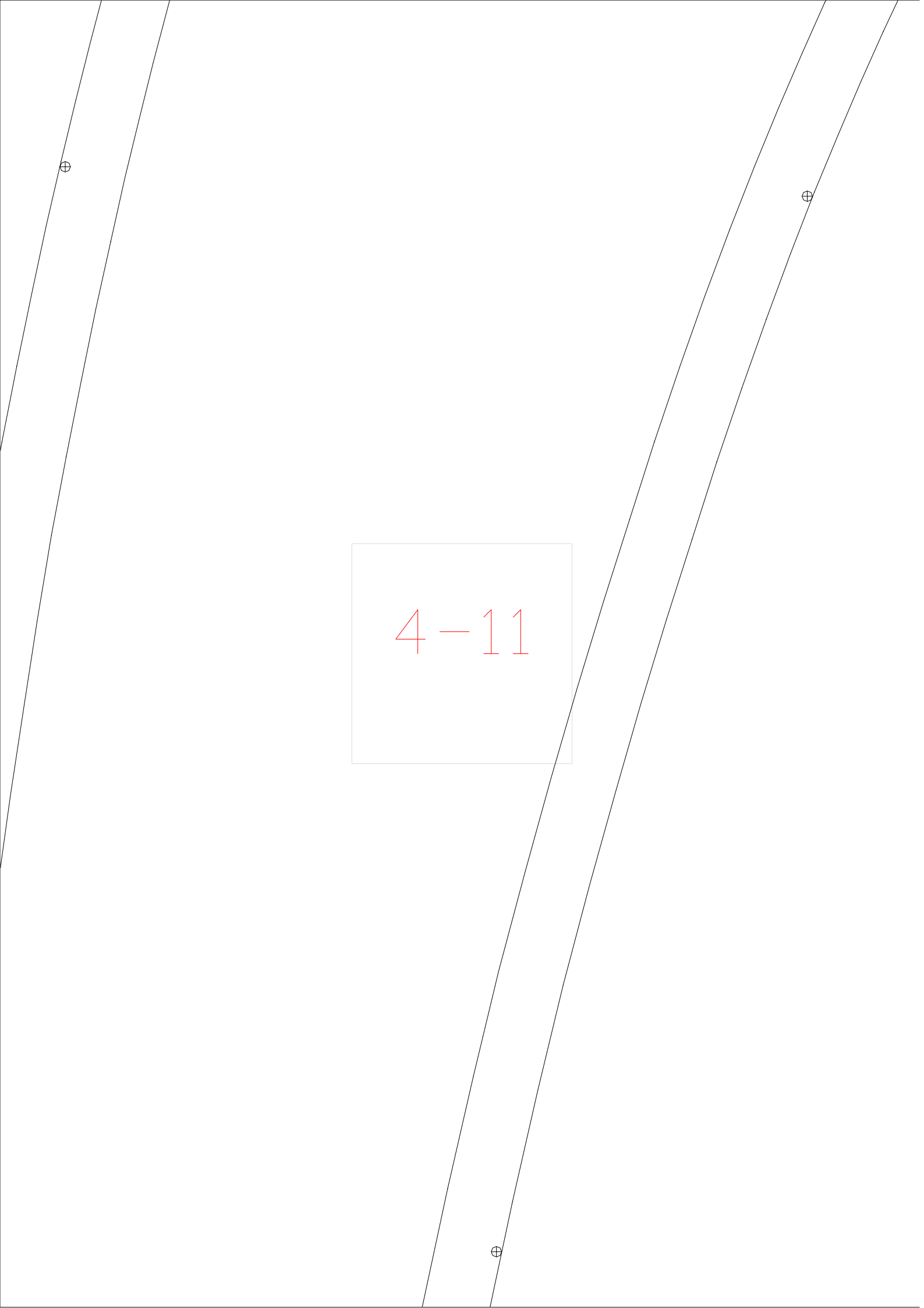
3-8

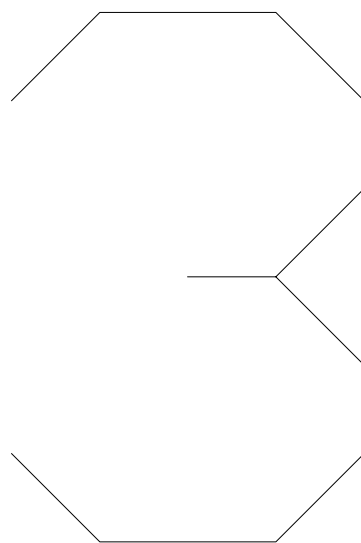
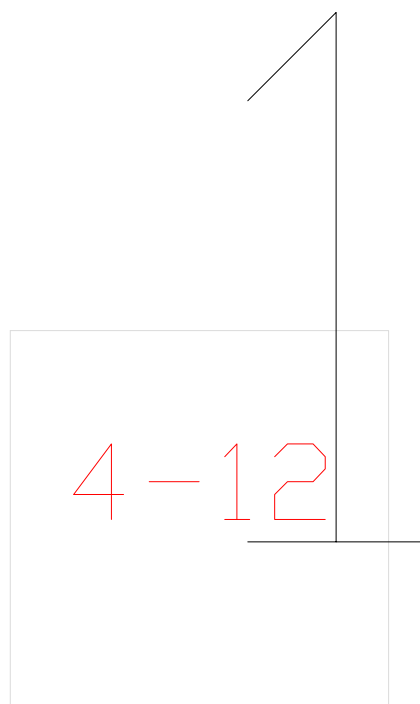
⊕

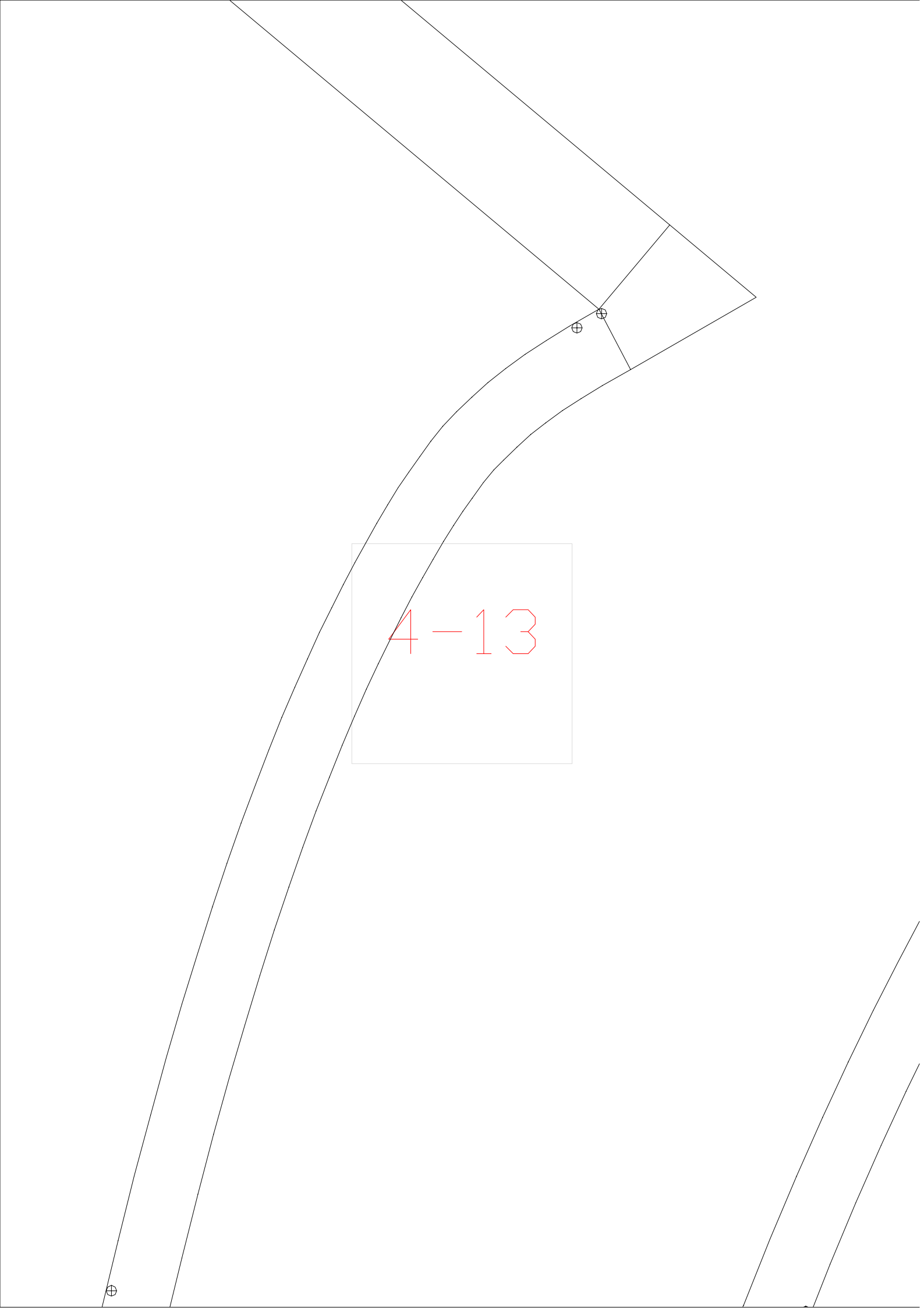
3-9

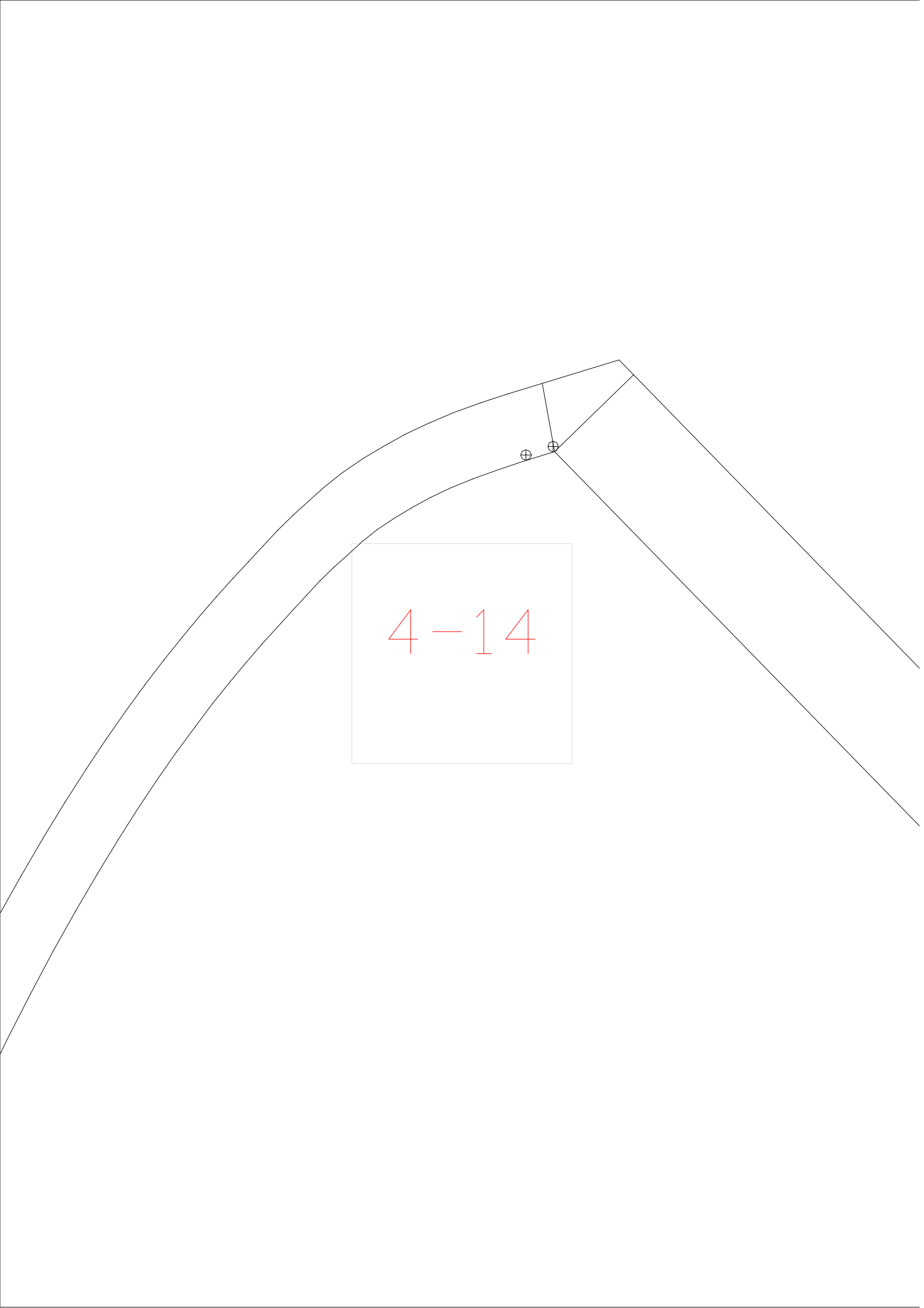
⊕

4-10









4-15

4-16

4-17

4-18

4-19

$$4 - 1$$

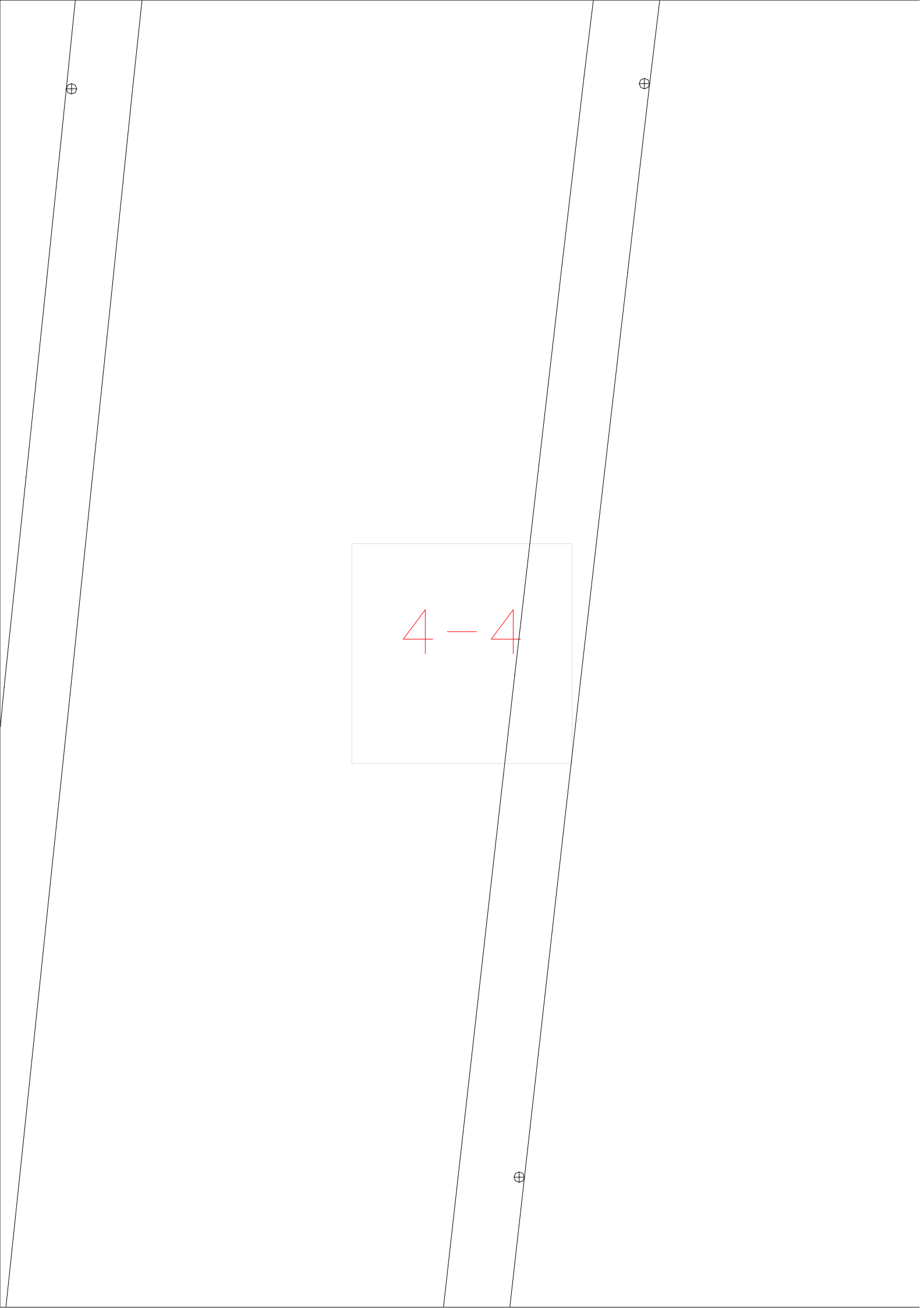
\oplus

\oplus

4-20


$$4-2$$

$$4 - 3$$



4-5

4-6

\oplus

\oplus

\oplus



$$4 - 7$$

A diagram illustrating a light cone. Two diagonal lines intersect at the center, forming an 'X' shape. A light gray rectangular box is centered on the intersection. Inside the box, the equation $4-8$ is written in red. Two small circles, each containing a plus sign (\oplus), are located on the diagonal lines: one in the upper-right quadrant and one in the lower-left quadrant.

$$4-8$$

$$4-9$$

\oplus

\oplus

5-10

⊕

5-11

\oplus

5-12

⊕

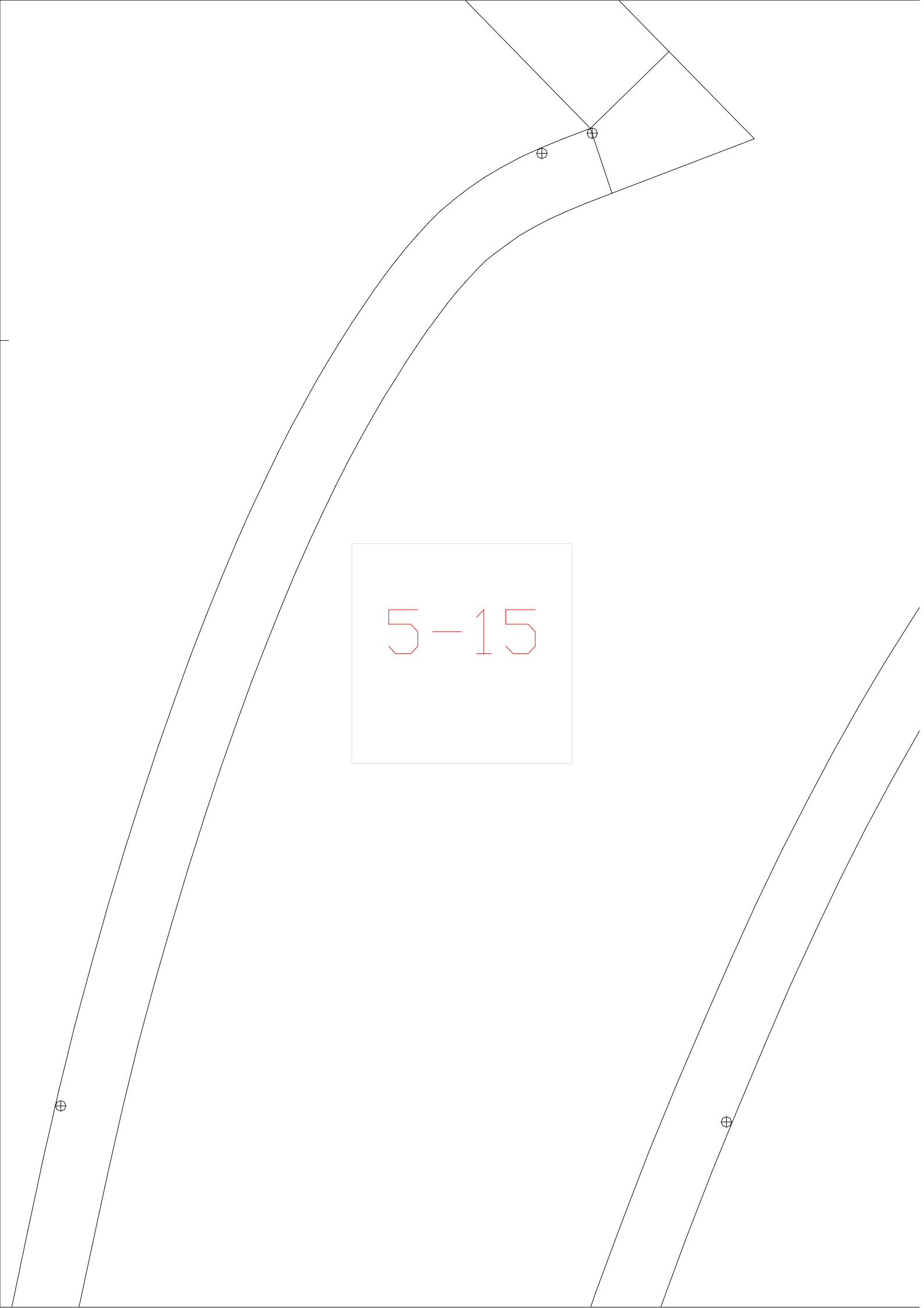
5-13

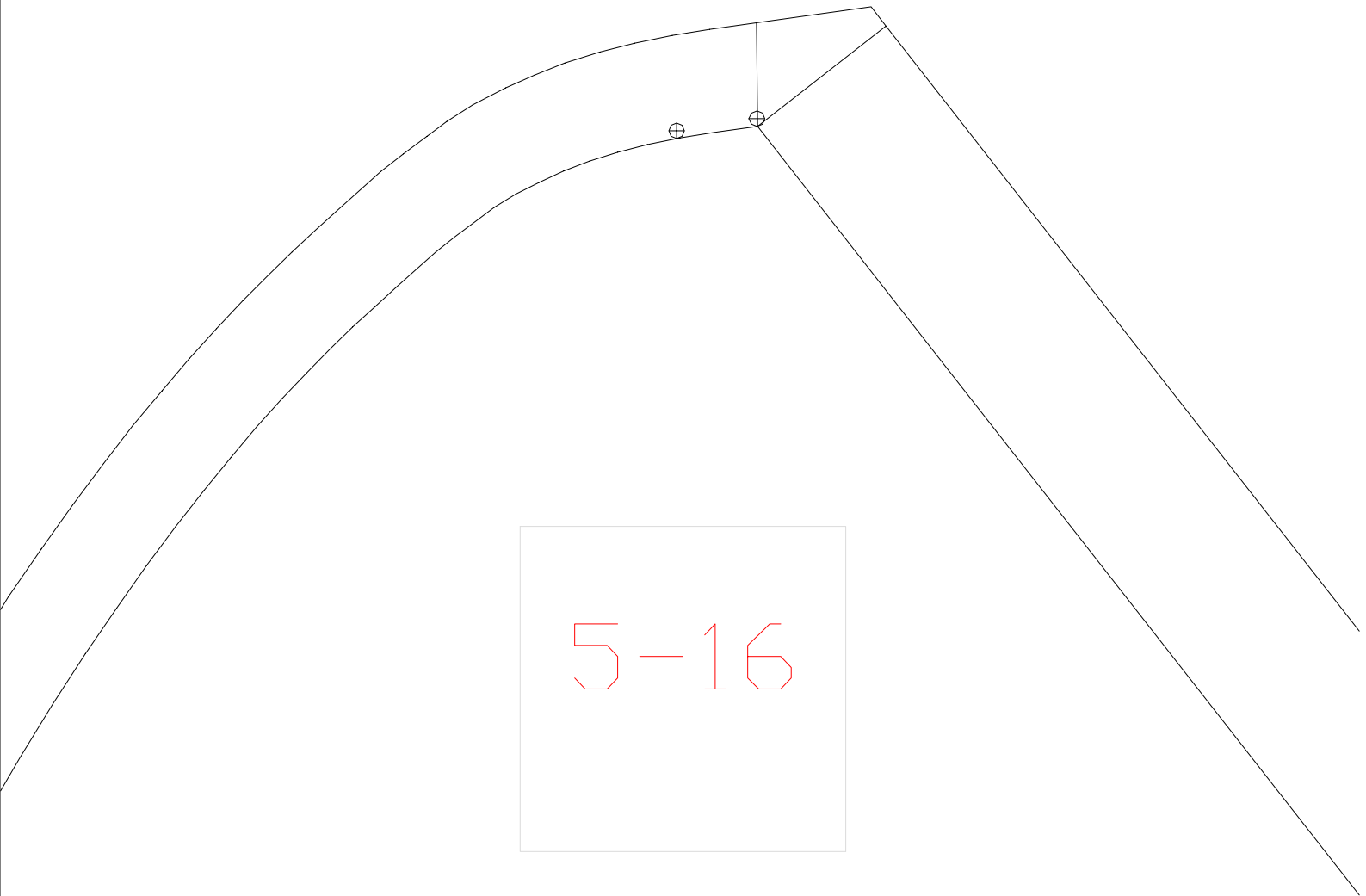


1

4

5-14





5-17

5-18

5-19

5-1

⊕

5-20

5-2

⊕

5-3

⊕



A diagram illustrating a light cone in a 2D spacetime. Two diagonal lines, representing the light cone, intersect at the origin. A light gray shaded rectangular region is centered on the vertical axis. Inside this shaded region, the equation $5-4$ is written in red. Below the shaded region, on the right-hand light cone line, there is a small black circle with a plus sign inside, representing an event.

$$5-4$$

\oplus

5-5

5-6



5-7

5-8

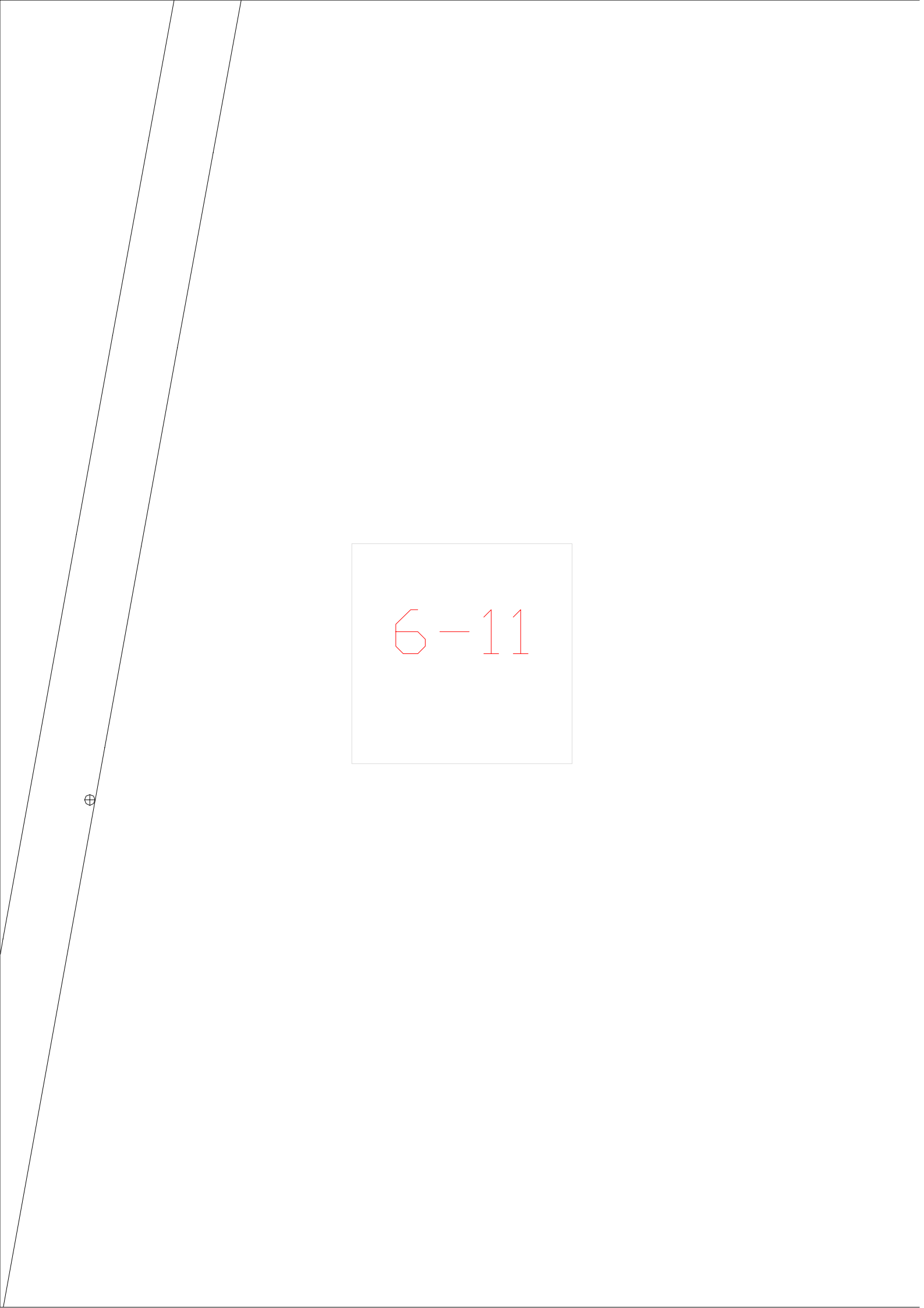
\oplus

5-9

⊕

6-10

\oplus



⊕

6-11

6-12

\oplus

6-13

\oplus

6-14

\oplus

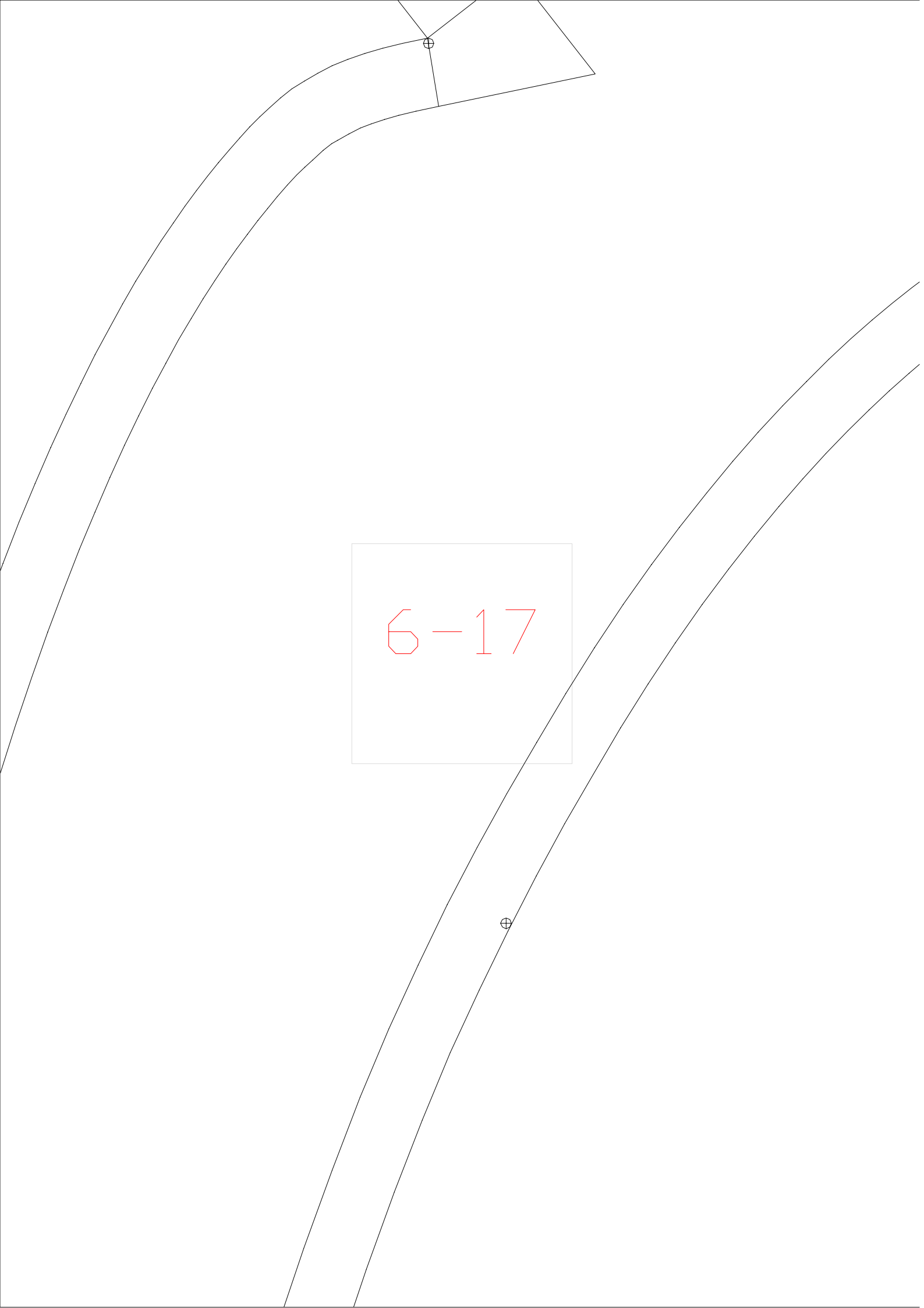
6-15

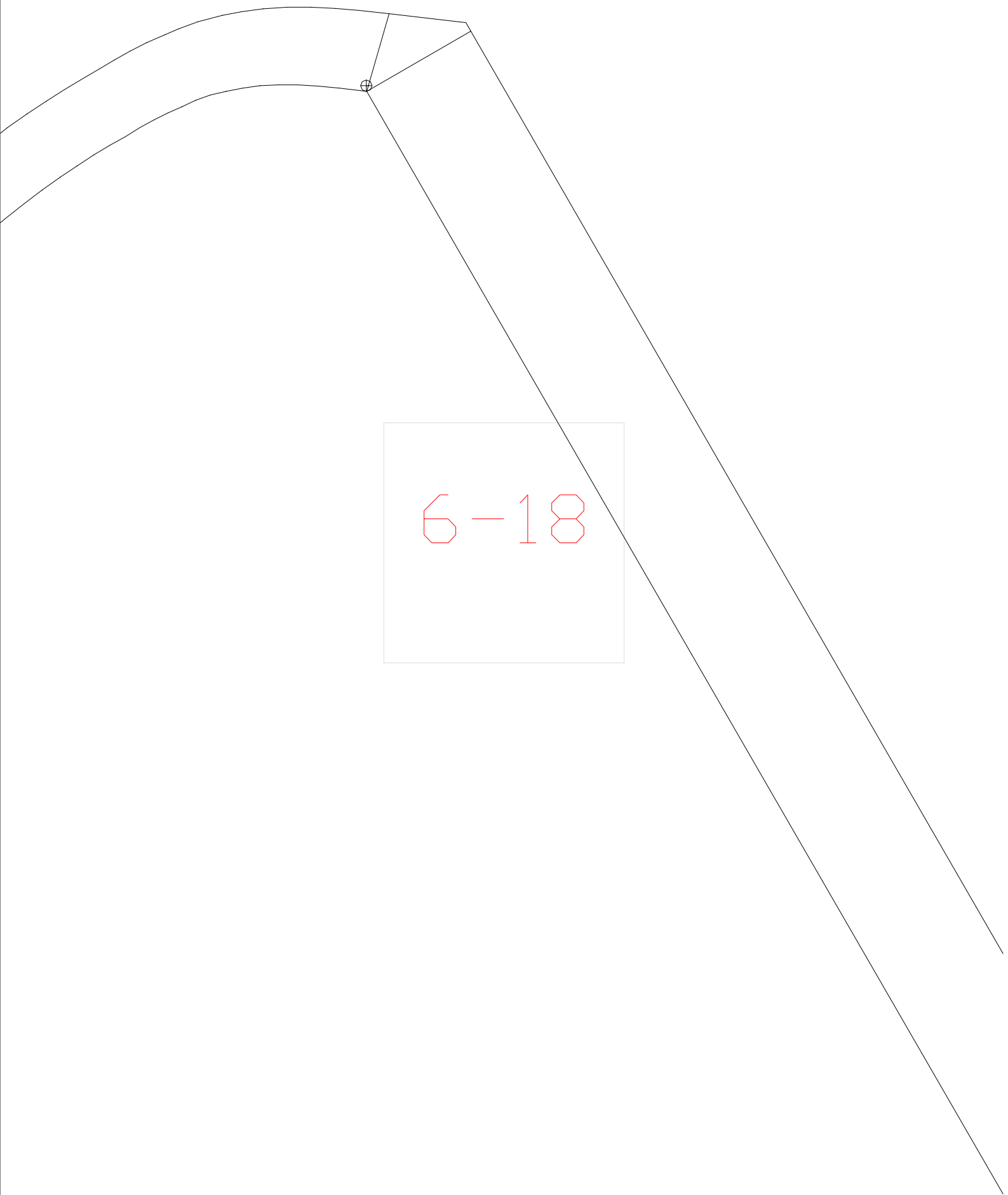
⊕

15

6-16

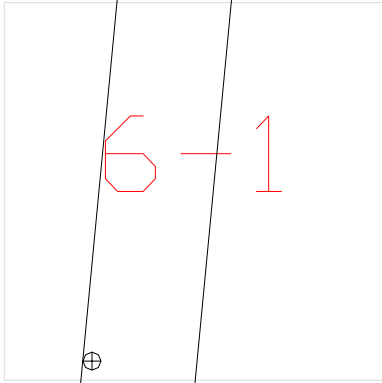
⊕





6-18

6-19



6-20

6-2

6-3

⊕



The diagram features a vertical strip on the left side, defined by two parallel lines. A small circle with a plus sign is located on the left boundary of this strip. To the right of the strip is a large, light gray rectangular area. Centered within this gray area is a smaller white square box. Inside this box, the expression $6-4$ is written in red.

$$6-4$$

6-5

⊕

6-6



6-7

6-8

\oplus

\oplus

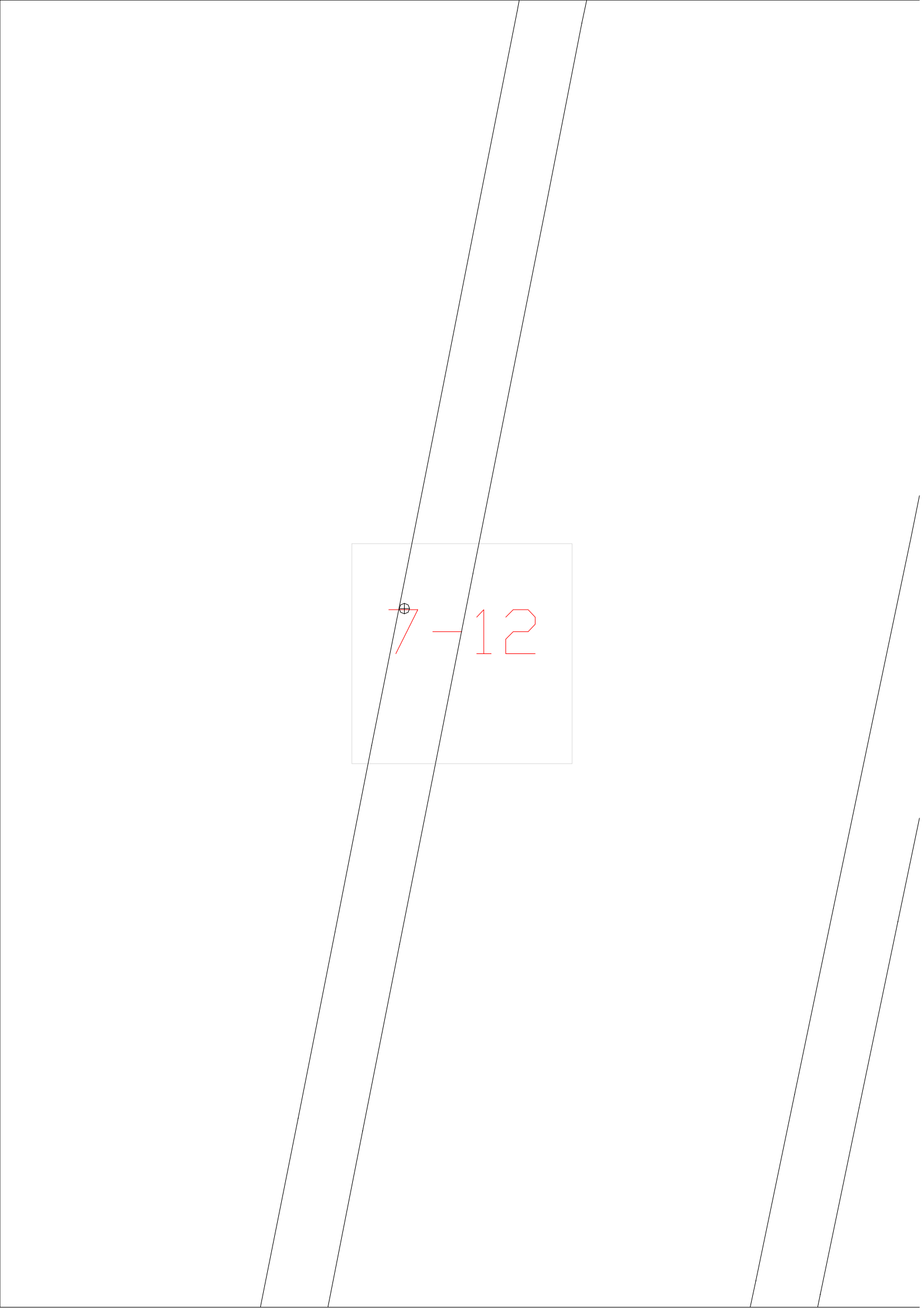
6-9

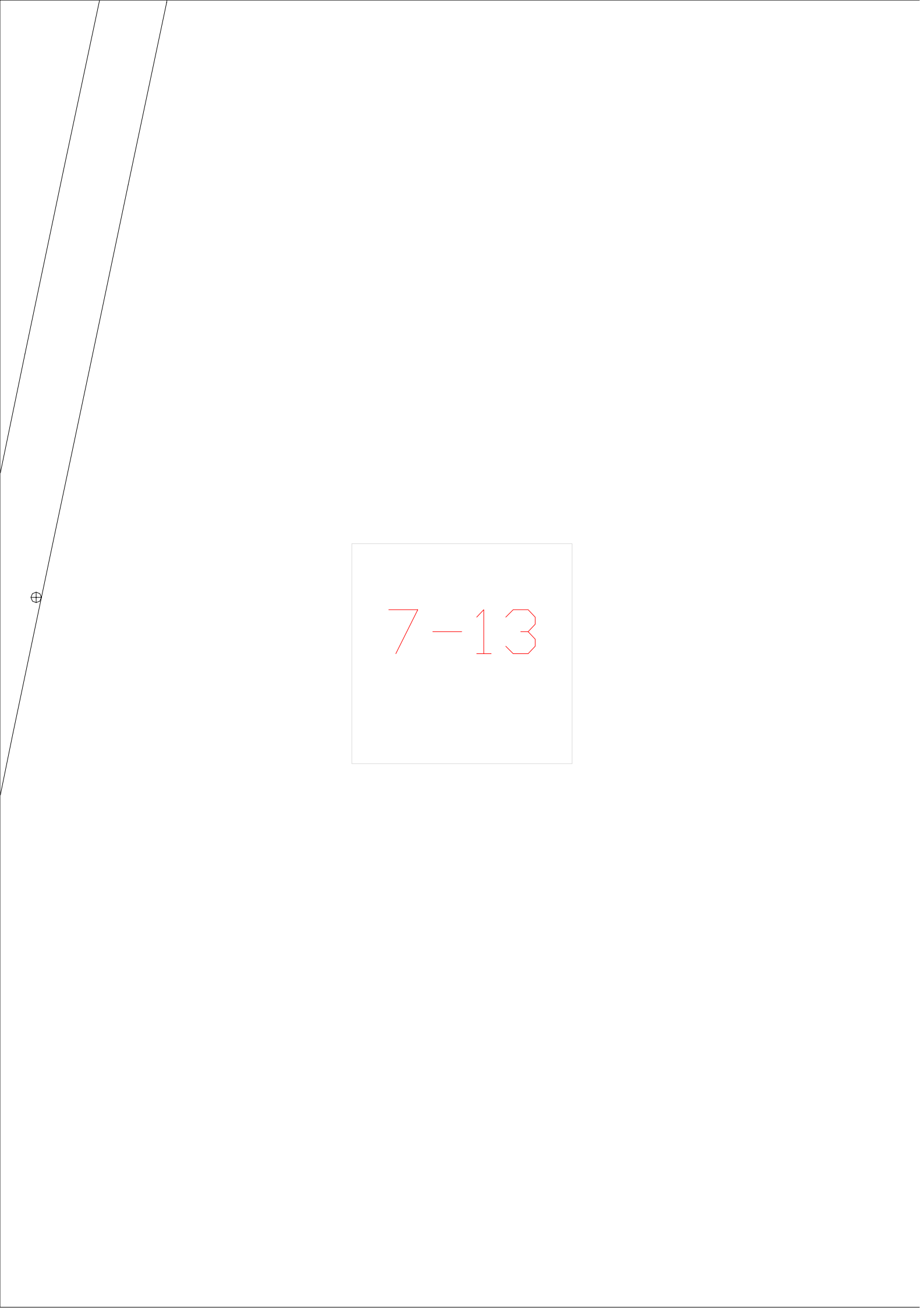
\oplus

7-10

\oplus

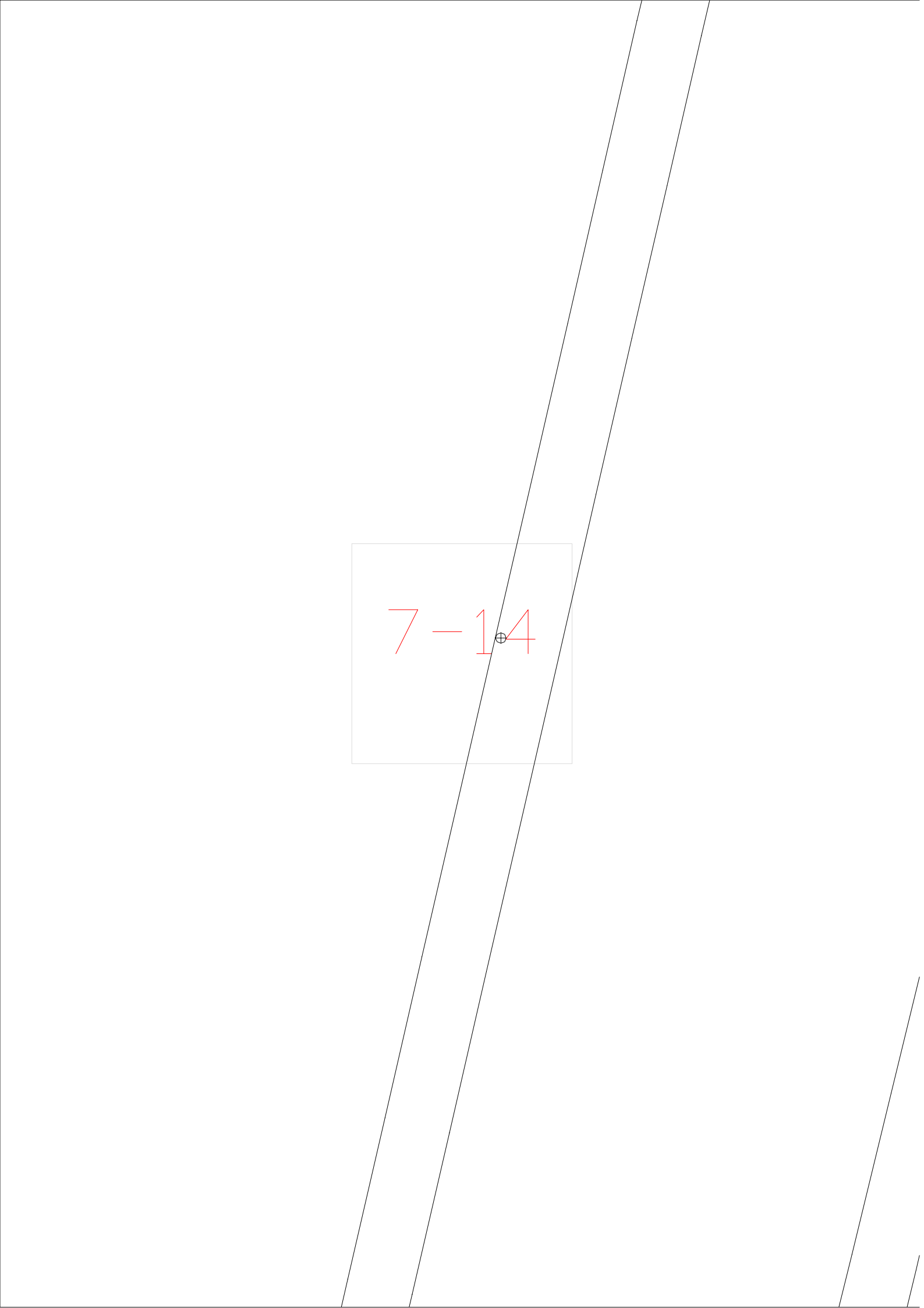
7-11


$$7-12$$

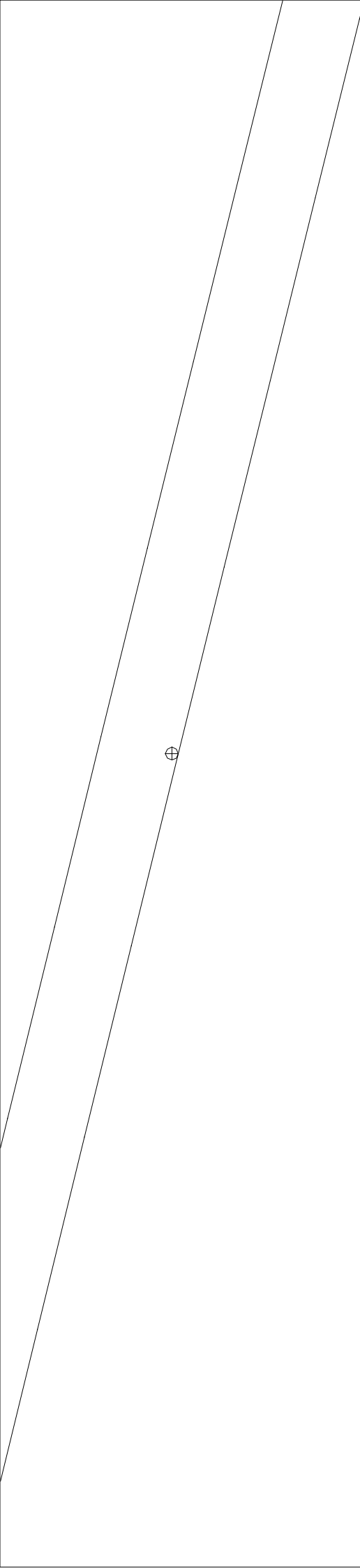


⊕

7-13



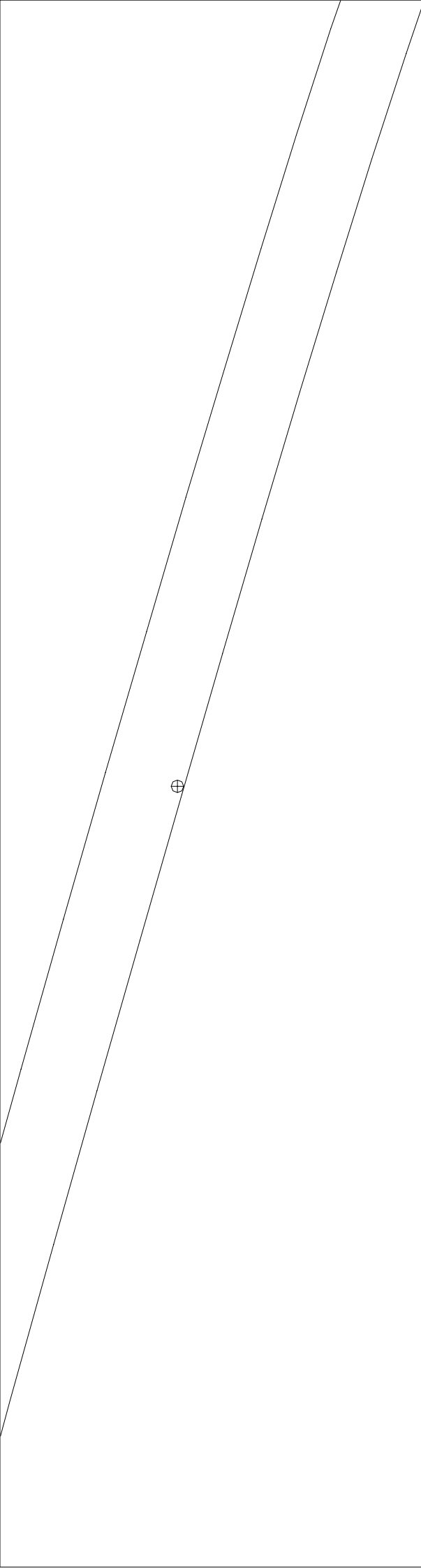
7-14



7-15

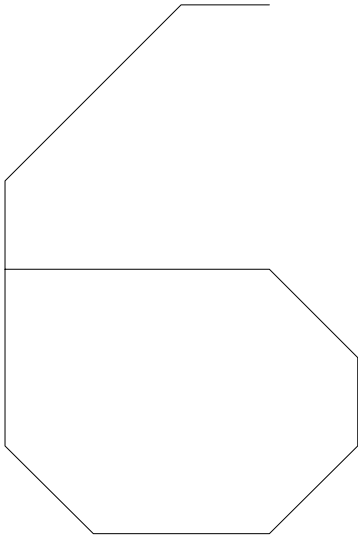
7-16

⊕



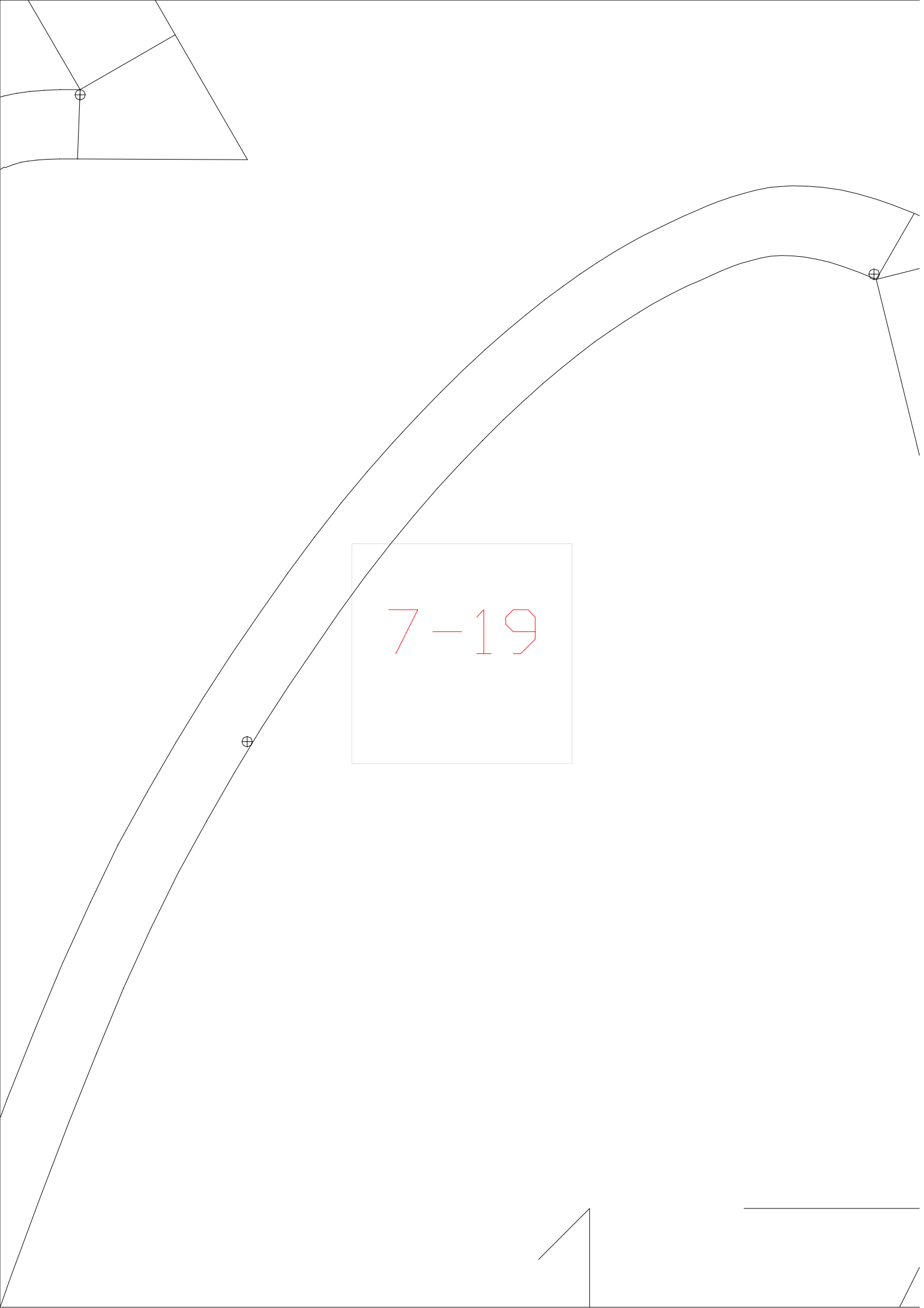
7-17

1



7-18

⊕



7-19

\oplus

\oplus

7-1

7-20

7-2


$$7-3$$

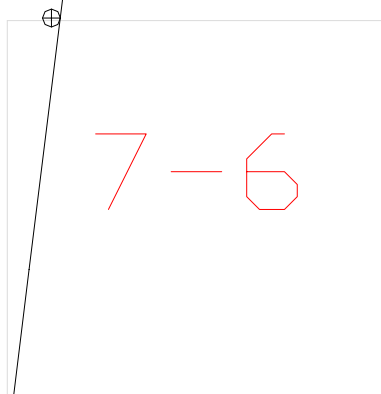
⊕

\oplus

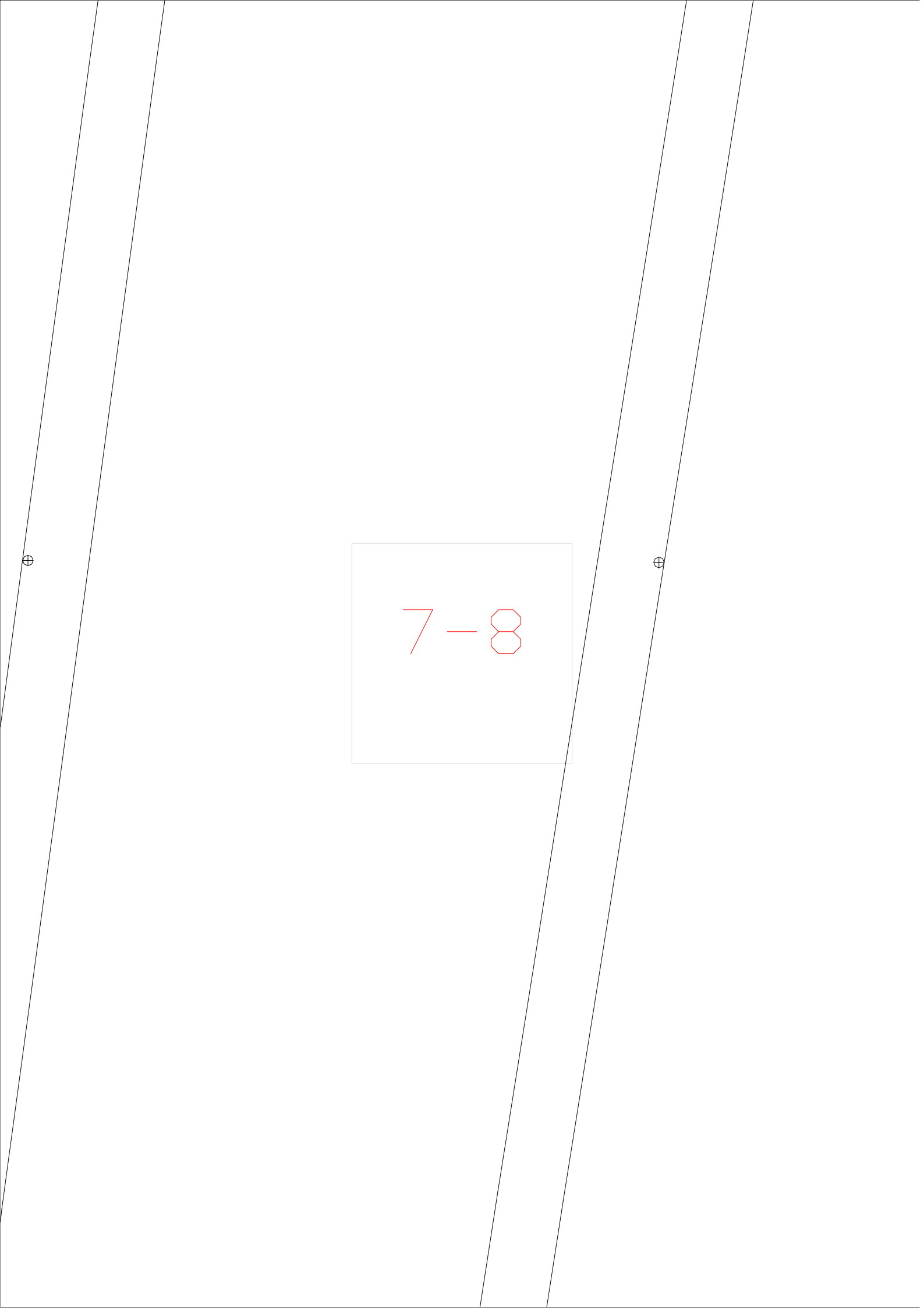
$$7 - 4$$

$$7-5$$

⊕



7-7

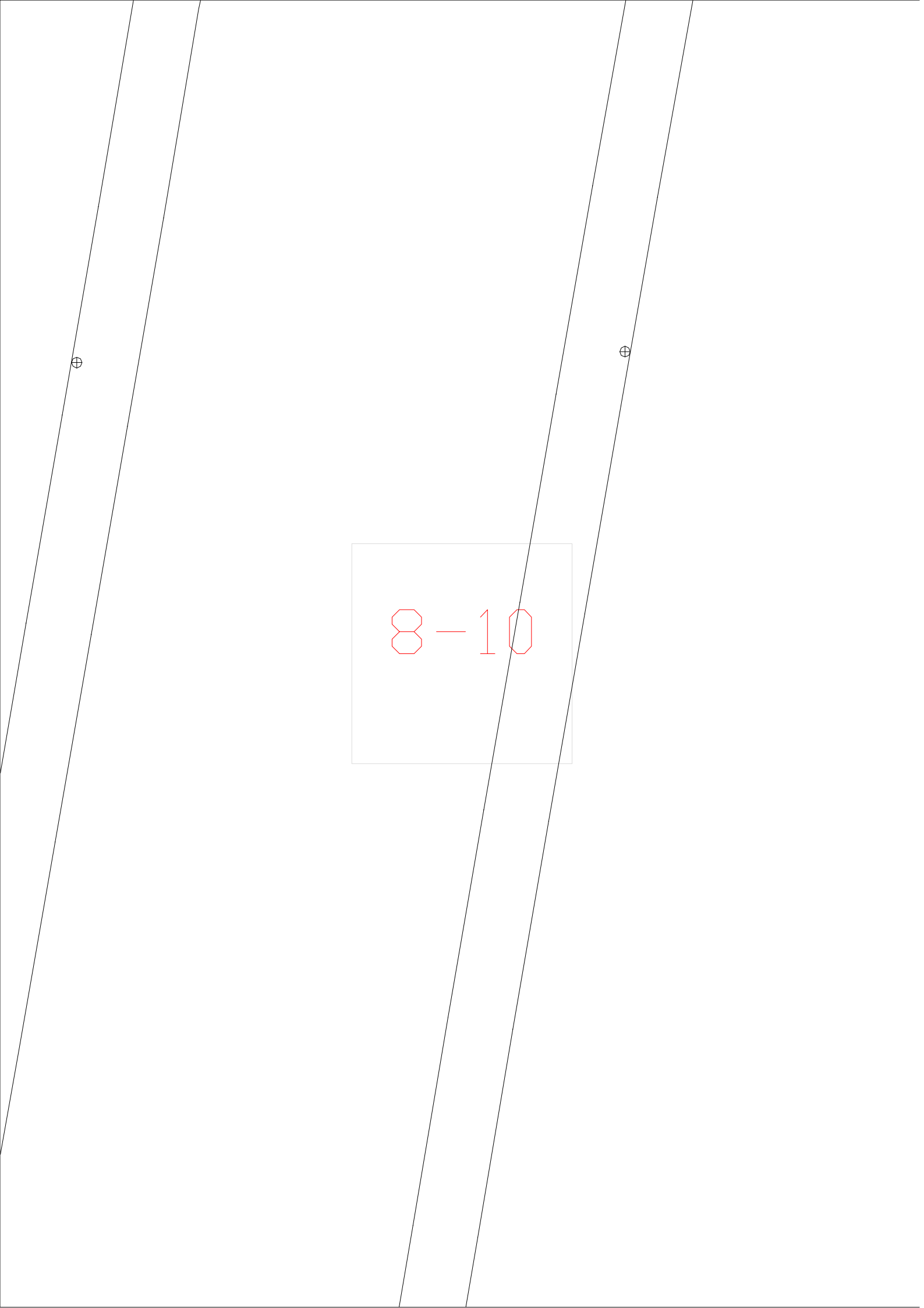


\oplus

\oplus

$$7-8$$

7-9



8-10

$$8-11$$

8-12

\oplus

\oplus

8-13

8-14

\oplus

\oplus

8-15

8-16

\oplus

\oplus

8-17

The diagram features two parallel diagonal lines sloping upwards from left to right. A light gray rectangular box is centered between these lines. Inside the box, the expression $8-18$ is written in red. On each of the two diagonal lines, there is a small black circle with a plus sign (\oplus) inside it, positioned at approximately one-third of the way up the line from the bottom.

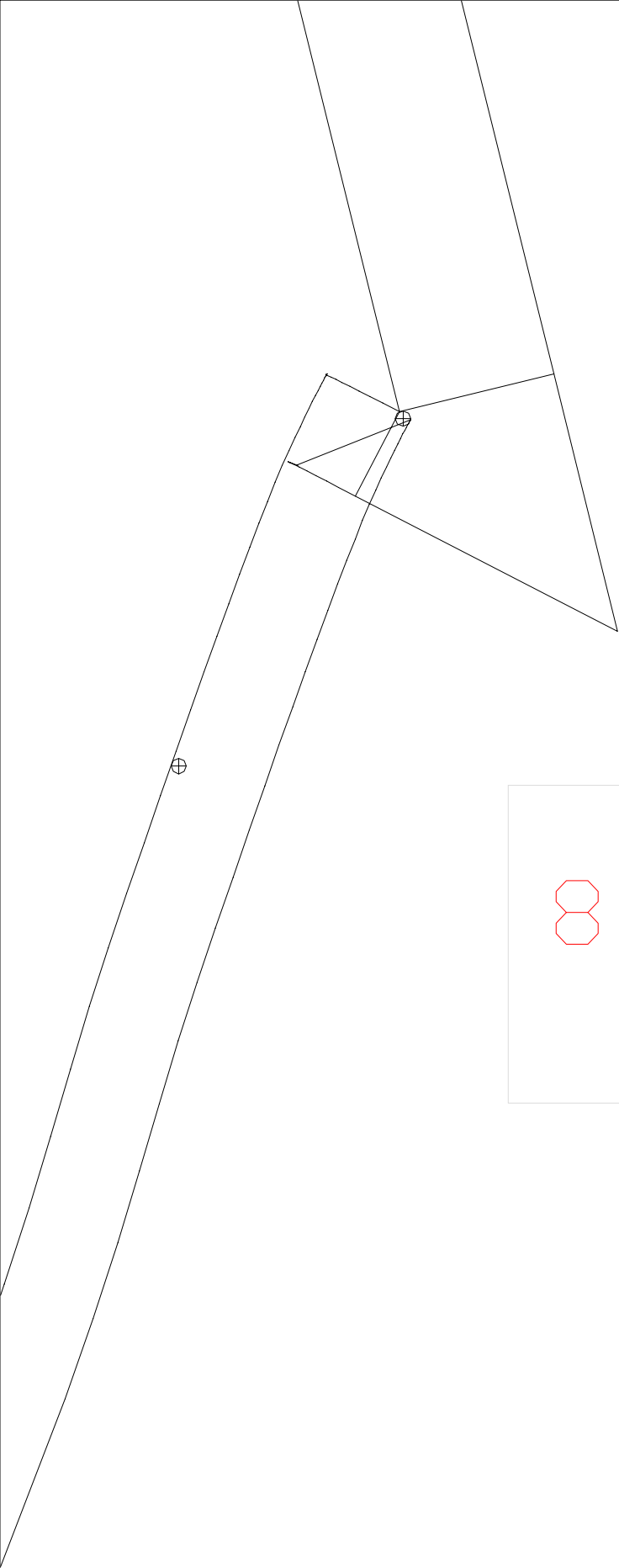
$$8-18$$

8-19



The diagram shows a large rectangular area with a light gray background. Two vertical, slightly slanted lines divide the area into three sections. The left and right sections are white, while the middle section is light gray. In the center of the middle section is a white square. Inside this square is the text "8-1" in red. On each of the two slanted lines, there is a small black circle with a plus sign inside, located in the upper half of the diagram.

$$8-1$$



8-20

$$8-2$$

\oplus

8-3

⊕

$$8 - 4$$

$$8-5$$

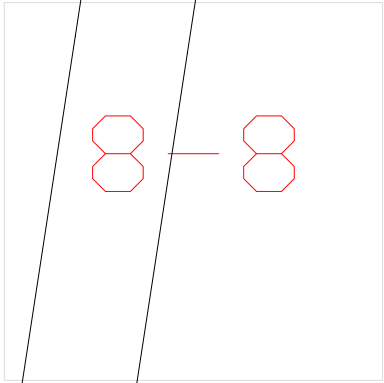
$$\oplus$$

\oplus

8-6

8-7

⊕



8-9

\oplus

9-10

\oplus

9-11



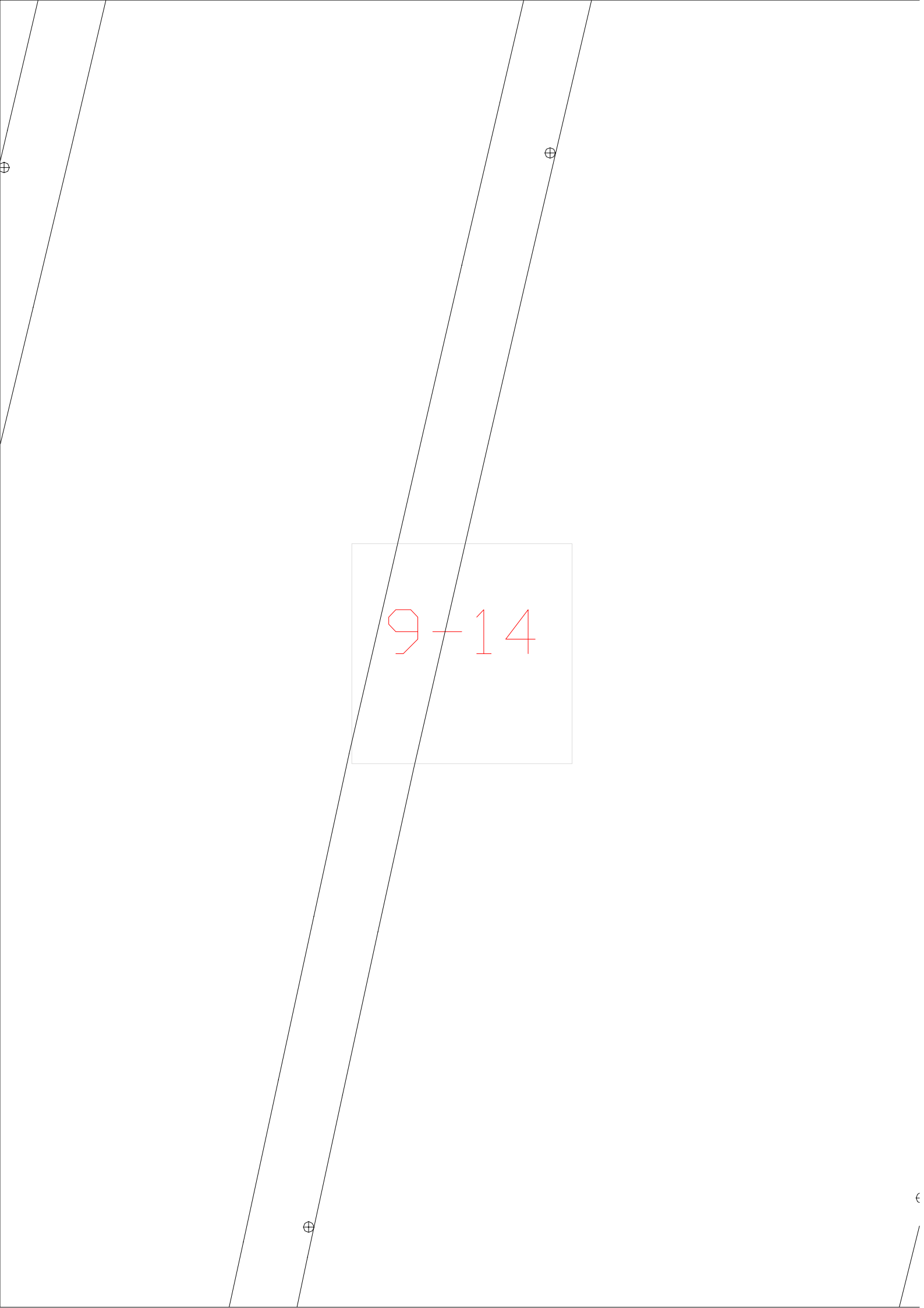
9-12



9-13

\oplus

\oplus



9-15

⊕

⊕

9-16

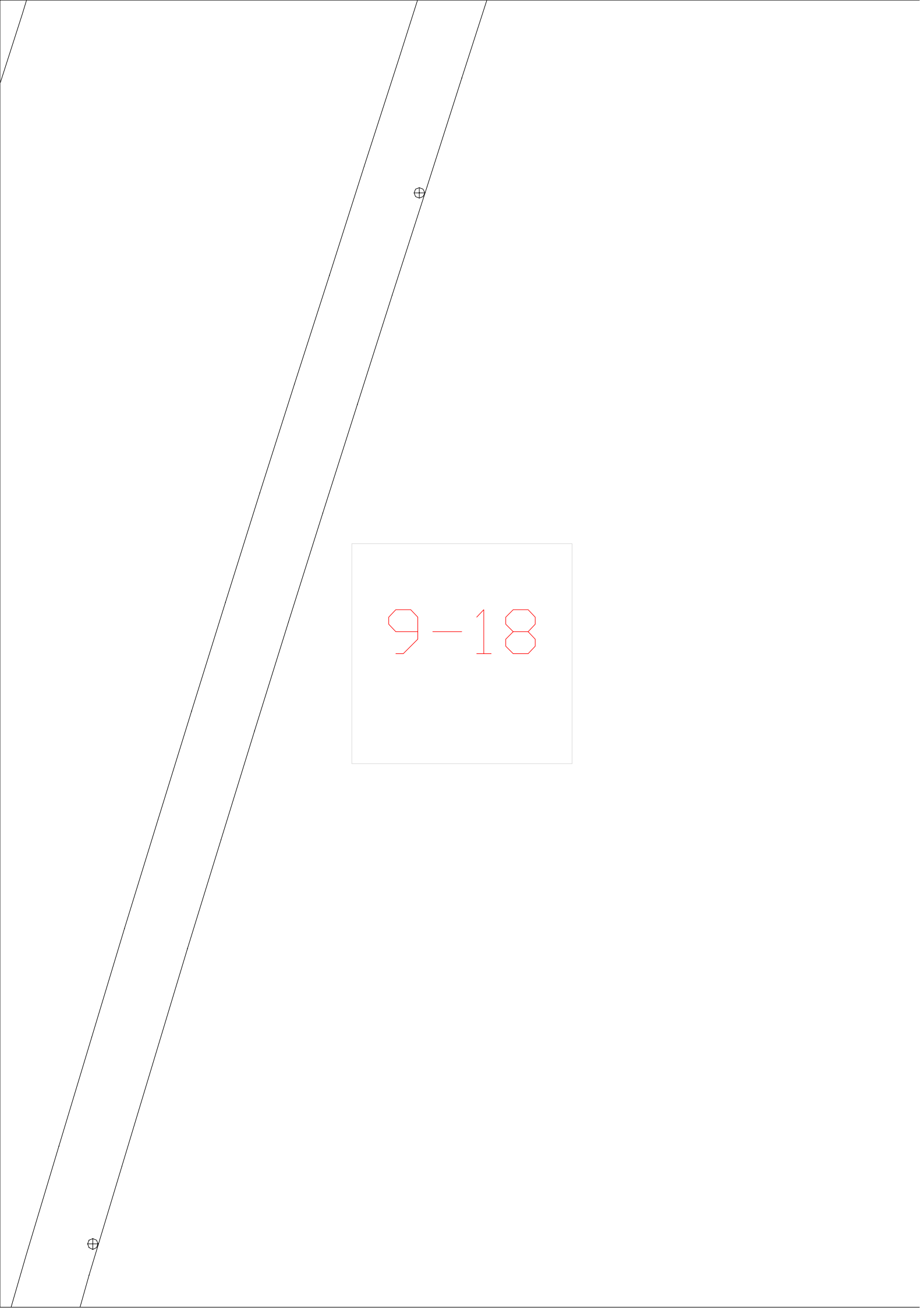
\oplus

\oplus

9-17

\oplus

\oplus

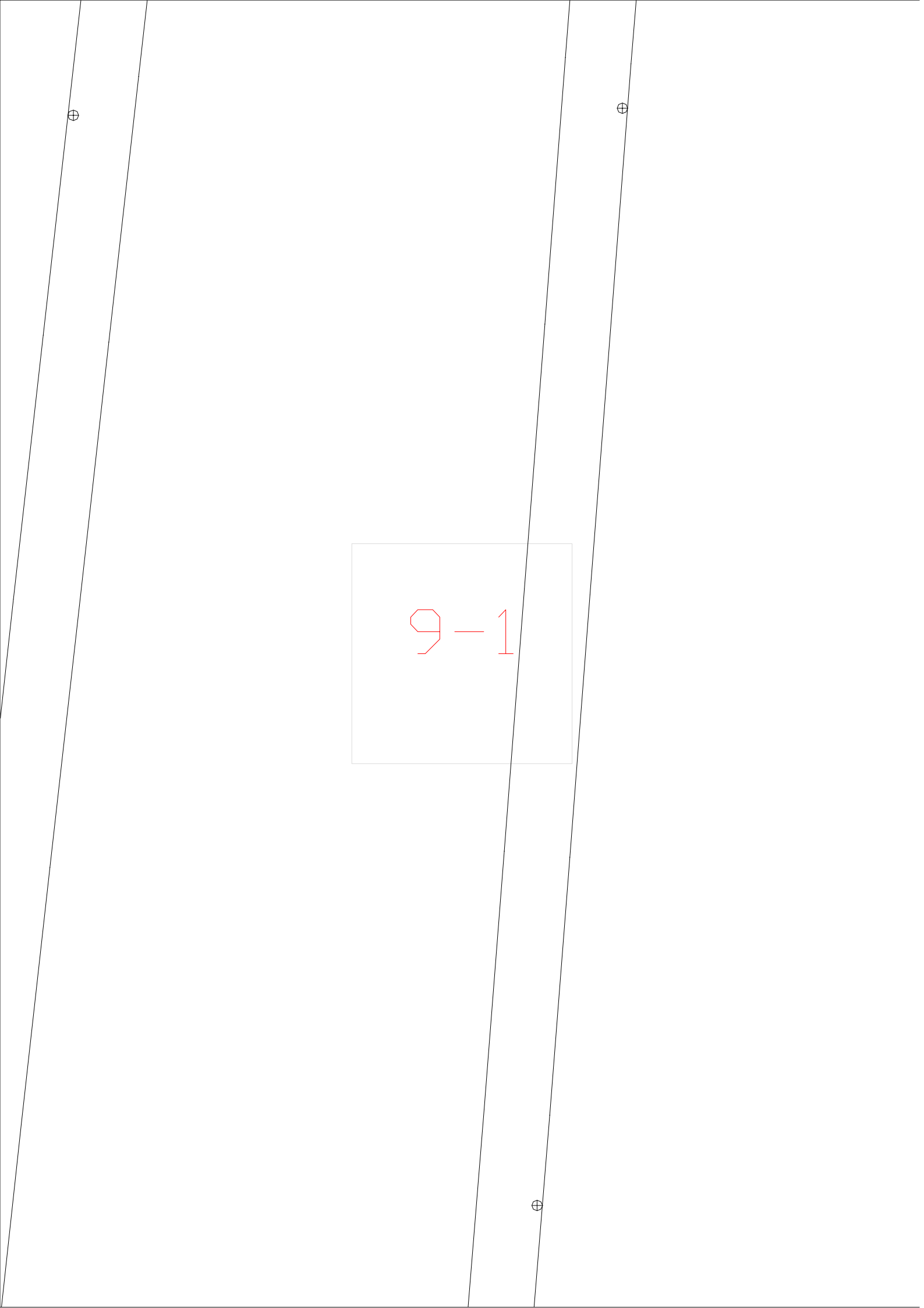


9-18

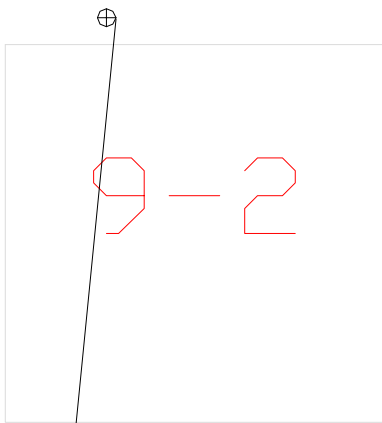
9-19

⊕

⊕



9-20



$$9-3$$

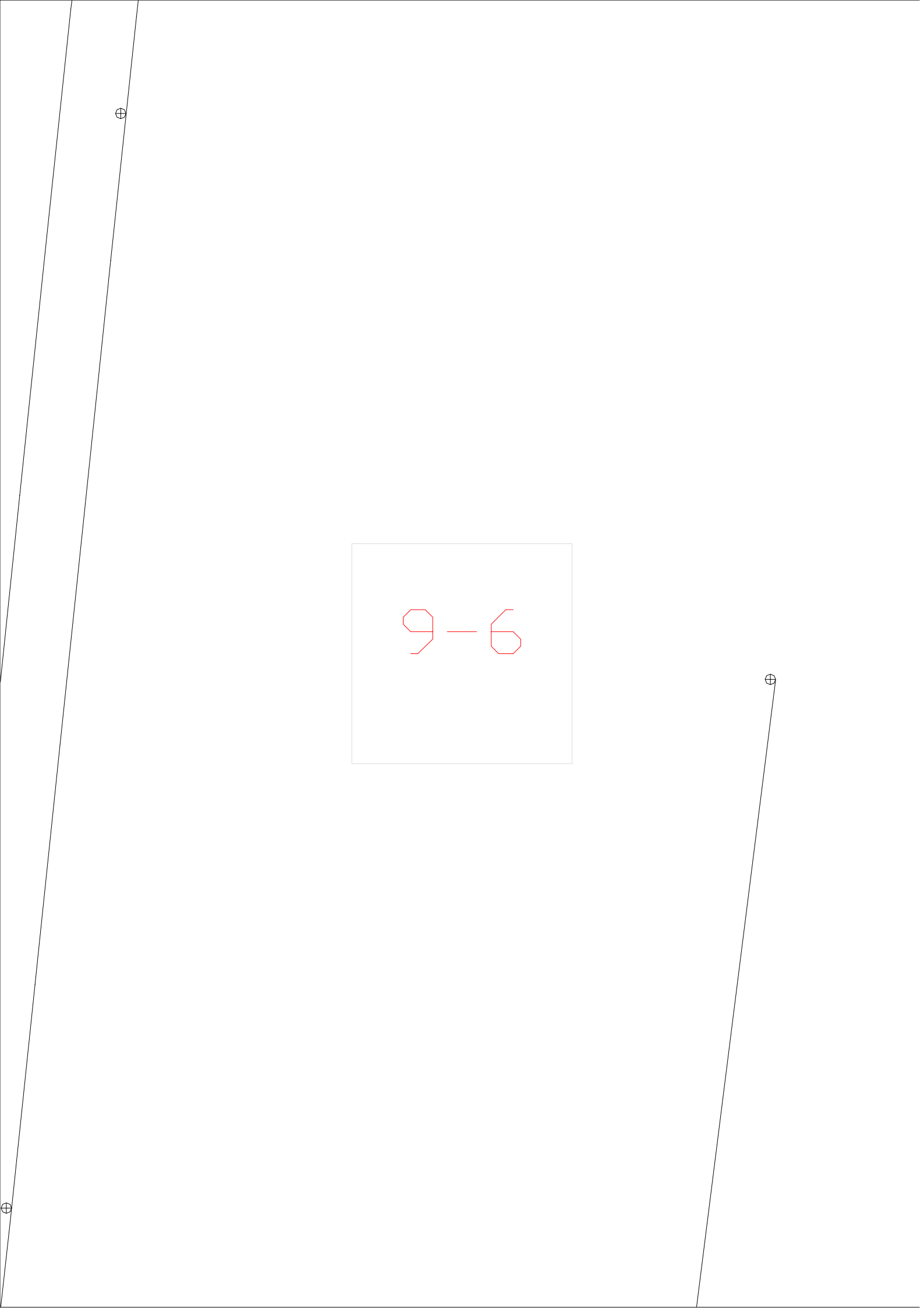
$$9 - 4$$

⊕

9-5

\oplus

\oplus



9-7

\oplus

\oplus

9-8

⊕

⊕

⊕

9-9

⊕

⊕