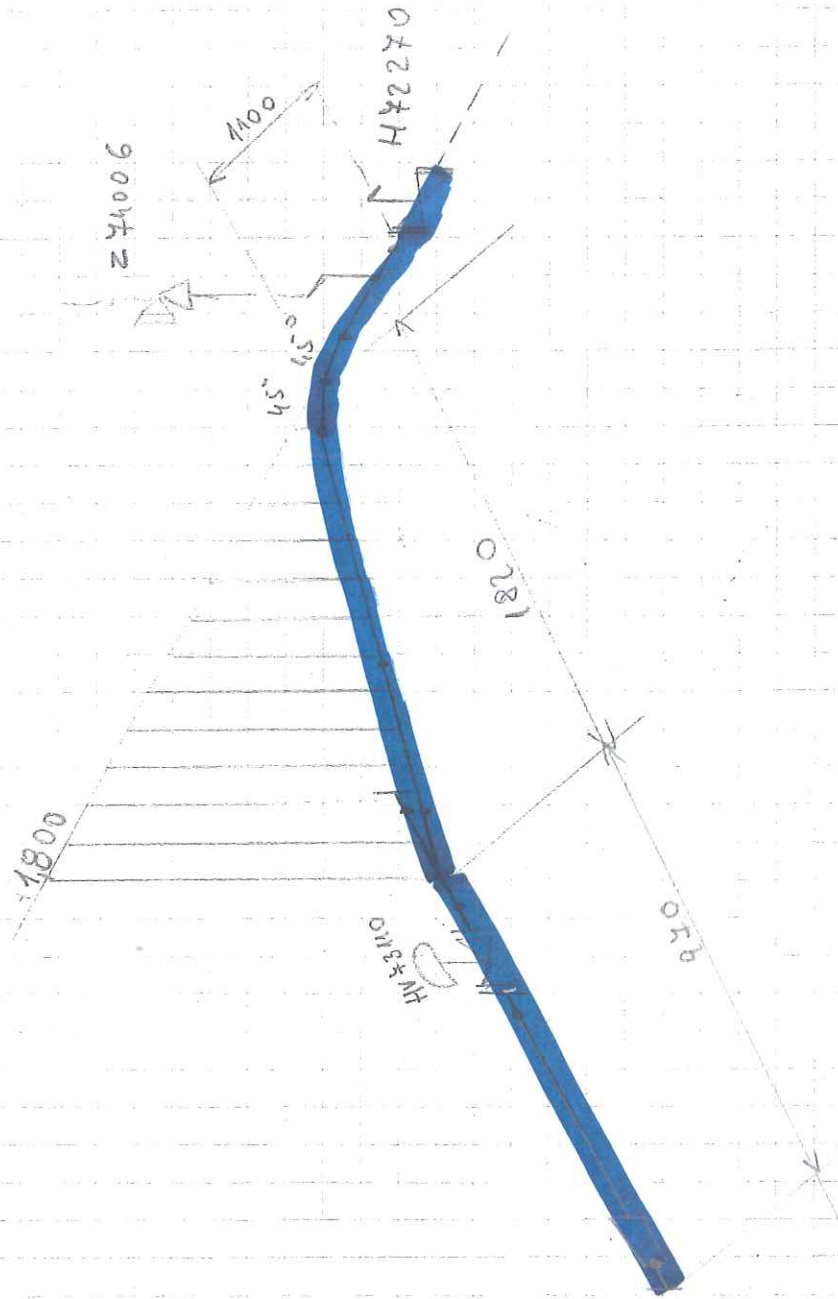


**Zoznam izolovaných potrubných trás a aparátov pre stavbu US STEEL Košice**  
**List of insulated pipe lines and aparates for ASU 9 and Tank Farm US STEEL Kosice****Tank Farm - izolácia Foamglass, povrchová úprava pz plech****Tank Farm - insulation Foamglass, covering by hot deep galvanised plate**

| Vetva / pipe line | Typ izolácie / type of insulation | Hr. mm / thickness | Plech / plate | Hr. mm / thickness mm | Poznámka / REMARK |
|-------------------|-----------------------------------|--------------------|---------------|-----------------------|-------------------|
| 100 NL-72002      | foamglass                         | 140                | pz/ HDG       | 0,8                   |                   |
| 100 NL-72003      | foamglass                         | 140                | pz/ HDG       | 0,8                   |                   |
| 150 NL-72002      | foamglass                         | 150                | pz/ HDG       | 0,8                   |                   |
| 50 NL-73001       | foamglass                         | 70                 | pz/ HDG       | 0,8                   |                   |
| 50 OL-61102       | foamglass                         | 110                | pz/ HDG       | 0,8                   |                   |
| 50 OL-61106       | foamglass                         | 110                | pz/ HDG       | 0,8                   |                   |
| 50 OL-63003       | foamglass                         | 110                | pz/ HDG       | 0,8                   |                   |
| 50 OL-63004       | foamglass                         | 110                | pz/ HDG       | 0,8                   |                   |
| 0 OL-64004        | foamglass                         | 120                | pz/ HDG       | 0,8                   |                   |
| 80 NL-73001       | foamglass                         | 70                 | pz/ HDG       | 0,8                   |                   |
| 80 NL-73101       | foamglass                         | 70                 | pz/ HDG       | 0,8                   |                   |
| 80 NL-73102       | foamglass                         | 70                 | pz/ HDG       | 0,8                   |                   |
| 80 NL-73201       | foamglass                         | 70                 | pz/ HDG       | 0,8                   |                   |
| 80 NL-73202       | foamglass                         | 70                 | pz/ HDG       | 0,8                   |                   |
| 40 NL-73005       | foamglass                         | 120                | pz/ HDG       | 0,8                   |                   |
| 25 NL-73005       | foamglass                         | 120                | pz/ HDG       | 0,8                   |                   |
| 50 NL-23005       | foamglass                         | 120                | pz/ HDG       | 0,8                   |                   |
| 50 NL 72003       | foamglass                         | 120                | pz/ HDG       | 0,8                   |                   |
|                   |                                   |                    |               |                       |                   |
|                   |                                   |                    |               |                       |                   |
|                   |                                   |                    |               |                       |                   |
|                   |                                   |                    |               |                       |                   |

ASBUILT



100 NL 42002

Footnotes

# THE BASICS



| Welding No. | DN    | Diameter | Welder No. | Protocol No. |
|-------------|-------|----------|------------|--------------|
| 01          | 100   | 114.3    | _____      | _____        |
| 02          | 100   | 114.3    | _____      | _____        |
| 03          | 65    | 76.1     | _____      | _____        |
| 04          | _____ | 33       | _____      | _____        |

Remarks:

Responsibility of the assembling company:

- Situation of mounting seams
- Situation of pass-lengths
- Check of measure details and pipe courses on the construction site
- Situation of the spindle at valve

Accompanying drawings:

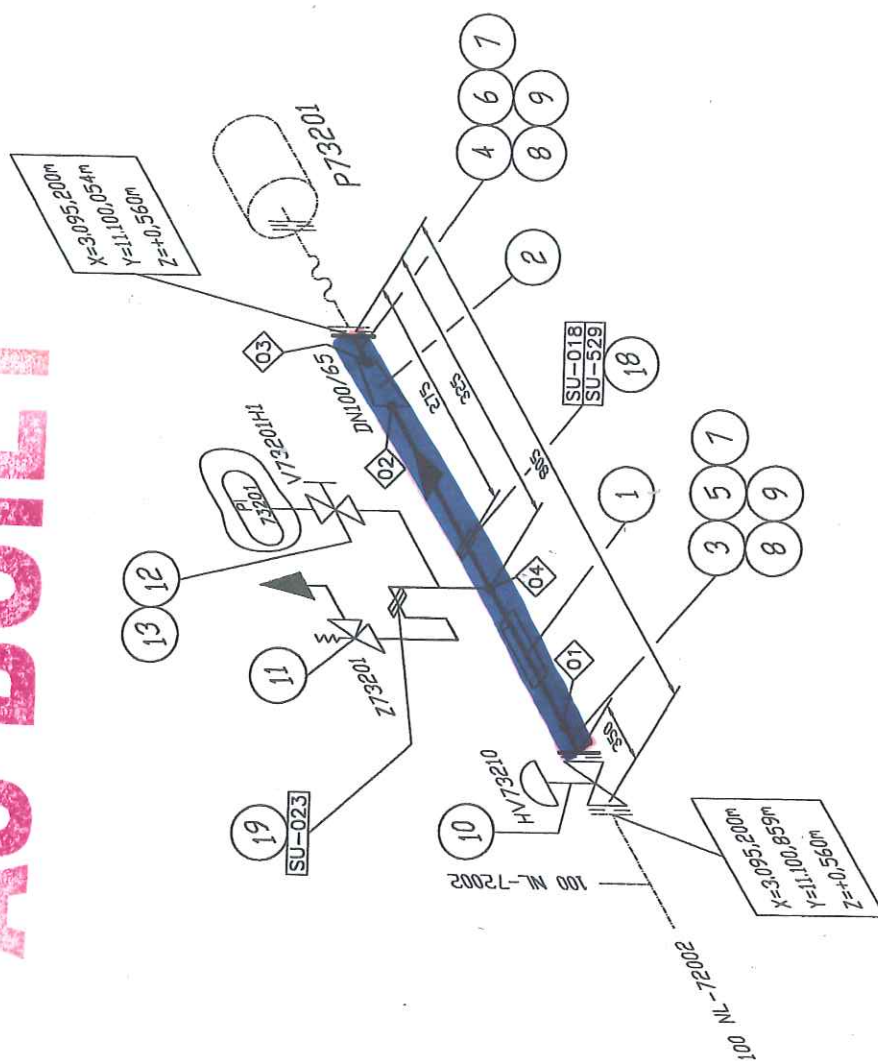
- 100 NL-72002 ZB10C1C

Accompanying lists:

- Parts list:  
100 NL-72003-ZB10C1C

Pipe standard:

- AL Standard No.:  
50030 (ZB10C1)



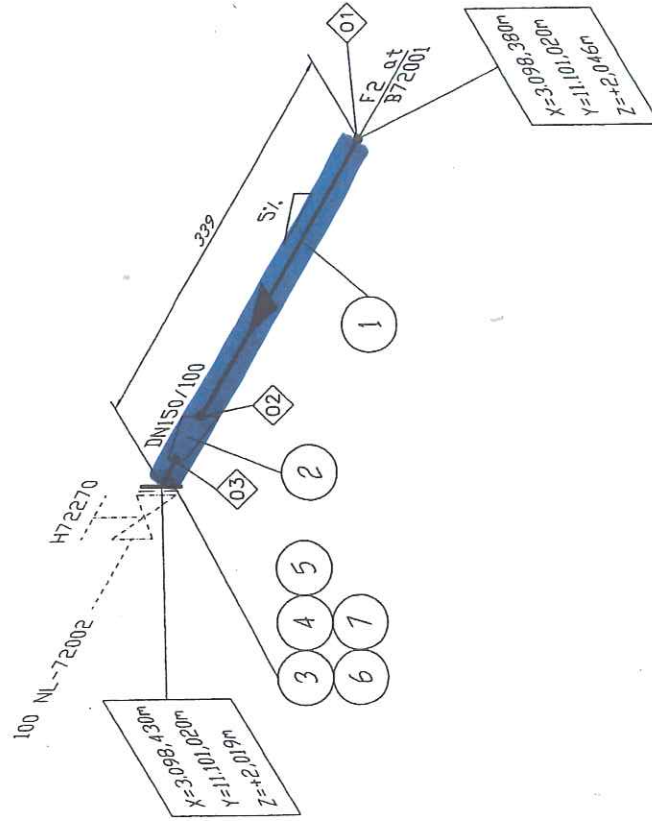
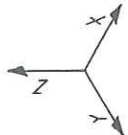
|                                                                                                                      |  |                                                                      |  |                                                           |  |                                                               |  |
|----------------------------------------------------------------------------------------------------------------------|--|----------------------------------------------------------------------|--|-----------------------------------------------------------|--|---------------------------------------------------------------|--|
| <div>  <b>AIR LIQUIDE</b> </div> |  | <div> <div>Date : 25.10.2004</div> <div>Name : Reid./ES</div> </div> |  | <div> <div>Checked:</div> <div>Hr. Gans</div> </div>      |  | <div> <div>History file:</div> <div>79287106.doc</div> </div> |  |
| <div> <div>Air Liquide AGS GmbH</div> <div>Job code: K70101</div> <div>Reference: ASU Kosice</div> </div>            |  | <div> <div>Scale</div> <div>---:---</div> </div>                     |  | <div> <div>Original format</div> <div>DIN A3</div> </div> |  | <div> <div>Sheet: 001</div> <div>of 001 Sheets</div> </div>   |  |
| <div> <div>Replaces: 79_</div> <div>Replaced by: 79_</div> </div>                                                    |  | <div> <div>Title:</div> <div>100 NL-72003</div> </div>               |  | <div> <div>Drawing No.:</div> <div>792.87106</div> </div> |  | <div> <div>Rev.</div> <div>B</div> </div>                     |  |

Dusík 100 NL- 72003

izolácia ■ Foamglass - Hr. 140 mm

pozinkovaný plech - Hr. 0,8 mm

# AS BUILT



| Welding No. | DN  | Diameter | Welder No. | Protocol No. |
|-------------|-----|----------|------------|--------------|
| 01          | 150 | 168,3    |            |              |
| 02          | 150 | 168,3    |            |              |
| 03          | 100 | 114,3    |            |              |

*Rec. 0001 12/04*

### Remarks:

- Responsibility of the assembling company:
- Situation of mounting seams
  - Situation of pass-lengths
  - Check of measure details and pipe courses on the construction site
  - Situation of the spindle at valve

### Accompanying drawings:

- 100 NL-72002 ZB10C1C

### Accompanying lists:

- Parts list:  
150 NL-72002-ZB10C1C

### Pipe standard:

- AL Standard No.:  
50030 (ZB10C1)

|                      |                  |
|----------------------|------------------|
| <b>AIR LIQUIDE</b>   |                  |
| Air Liquide AGS GmbH |                  |
| Replaces: 79_        | Replaced by: 79_ |

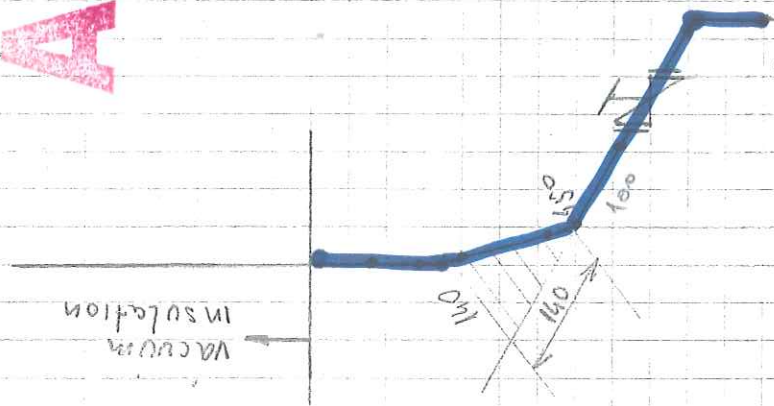
|            |              |
|------------|--------------|
| Date:      | 25.10.2004   |
| Job code:  | K70101       |
| Reference: | ASU Kosice   |
| Title:     | 150 NL-72002 |

|          |           |         |                        |
|----------|-----------|---------|------------------------|
| Checked: | Hr. Gans  | Scale   | Original format        |
| Rev.     | Revisions | Date    | Sheet: 001 of 001      |
| 00.00.00 | 18.01.05  | Revised | Drawing No.: 792.87106 |
| 01       |           |         | Rev. A                 |

DUSÍK 150 NL - 72002

IZOLÁCIA ■ Foamglass Hr. izol. 150 mm  
pozink. plech - Hr. 0,8 mm

ASBUILT



80 NL 73001

Sheet 04

Dasik 50 NL 73001

izolácia  Foamglass - (1. vrstva)  
hr. 70mm

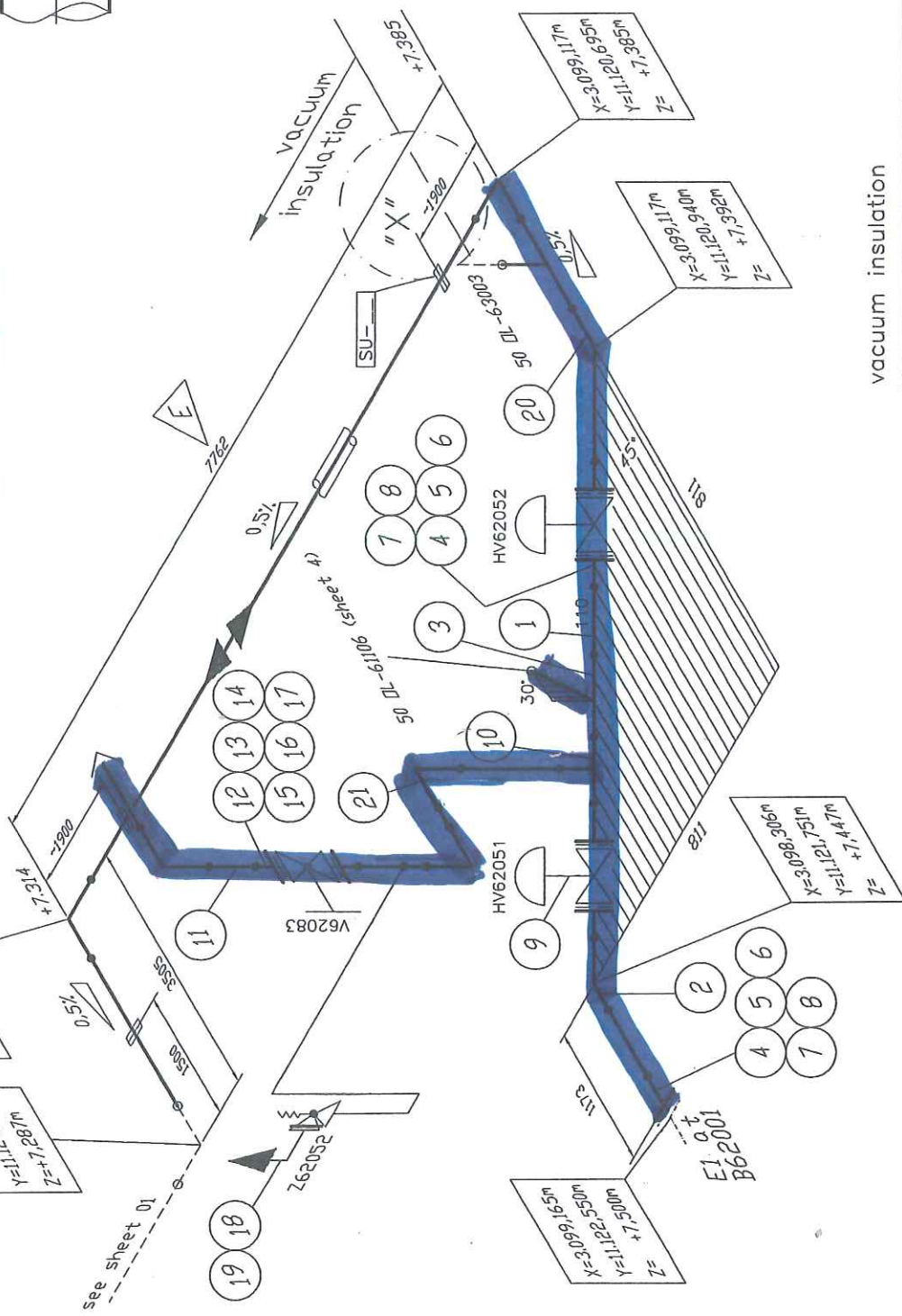
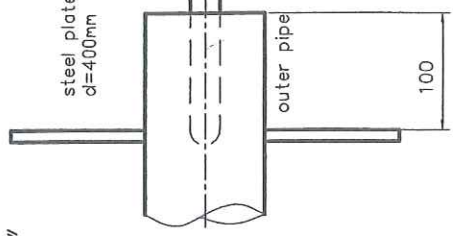
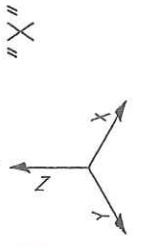
pozink. plech - hr. 0,8mm

Druhá vrstva izolácie nebolo možné namontovať  
v požadovanej hĺbke projektu.

Trasa nespadá pod garanciu.

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# AS BUILT



**Remarks:**  
Responsibility of the assembling company:  
- Situation of mounting seams  
- Situation of pass-lengths  
- Check of measure details and pipe courses on the construction site  
- Situation of the spindle at valve

**Accompanying drawings:**  
- 50 OL-61102 Sheet 01  
- 50 OL-63003  
- 50 OL-61106

**Accompanying lists:**  
- 50 OL-61102 ZB10C1

Pipe Length: 12m

|                      |  |                       |                  |                         |                            |
|----------------------|--|-----------------------|------------------|-------------------------|----------------------------|
| vacuum insulation    |  | Date : 16.02.2005     | Name : Reid./IES | Checked: Hr. Gans       | History file: 792------doc |
| <b>AIR LIQUIDE</b>   |  | Job code: K70101      | Scale: ---:---   | Original format: DIN A3 |                            |
| Air Liquide AGS GmbH |  | Reference: ASU Kosice | Sheet: 002       | of 002                  | Sheets                     |
| Replaces: 79-----    |  | Title:                | Drawing No.:     |                         | Rev.                       |
| Replaced by: 79----- |  |                       |                  |                         |                            |
| 50 OL-61102          |  |                       |                  |                         | 792.87106                  |
|                      |  |                       |                  |                         | E                          |

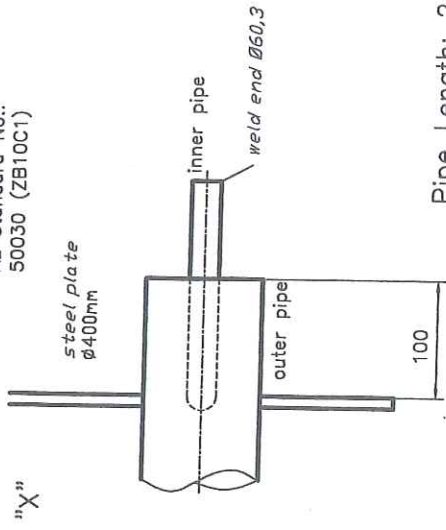
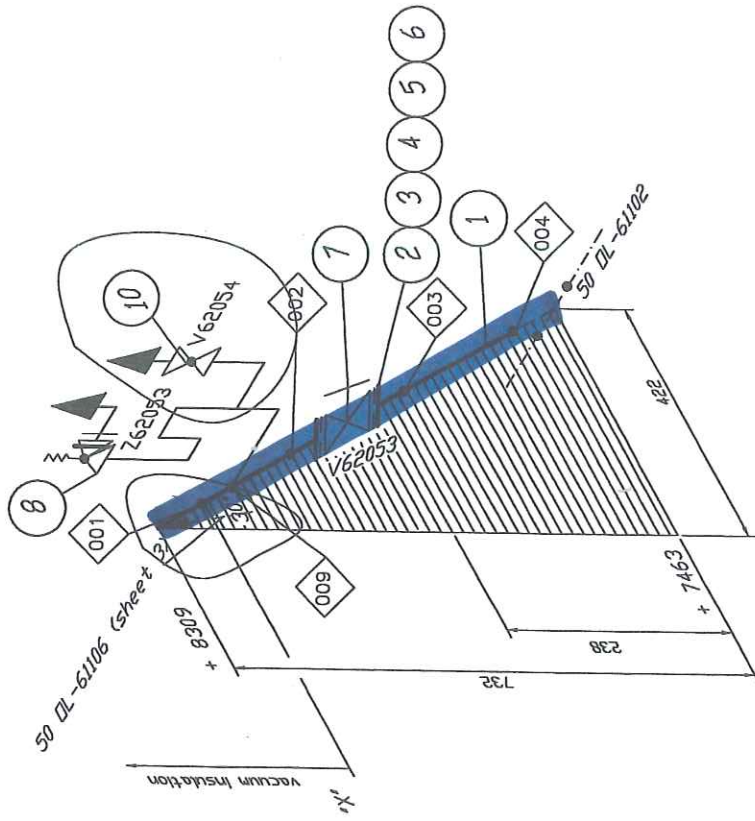
Ky slík

50 OL-61102

IZOLÁCIA ■ Foamglass - Hr. 110mm  
pozinkovaný plech Hr. - 0,8mm

AS BUILT

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to disclose it to any third parties.



Pipe Length: 2m

vacuum insulation

|                      |  |                       |                              |                            |  |
|----------------------|--|-----------------------|------------------------------|----------------------------|--|
| <b>AIR LIQUIDE</b>   |  | Date : 01.04.05       | Name : WIP/Rad.              | History file: 79287106.doc |  |
| Air Liquide ACS GmbH |  | Job code: K70101      | Scale Original format DIN A3 |                            |  |
| Replaces: 79_        |  | Reference: ASU Kosice | Sheet: 004 of 004 Sheets     |                            |  |
| Replaced by: 79_     |  | Title: 50 OL-61106    | Drawing No.: 792.87106 B     |                            |  |

| Welding No. | DN | φ    | Welder No. | Protoc No. |
|-------------|----|------|------------|------------|
| 001         | 50 | 60,3 |            |            |
| 002         | 50 | 60,3 |            |            |
| 003         |    | 22   |            |            |
| 004         | 50 | 60,3 |            |            |
| 005         | 50 | 60,3 |            |            |

Remarks:

- Responsibility of the assembling company:
- Situation of mounting seams
- Situation of pass-lengths
- Check of measure details and pipe courses on the construction site
- Situation of the spindle at valve

Accompanying drawings:

- 50 OL-61106 Sheet 03

Accompanying lists:

- Parts list: 50 OL-61106 ZB10C1

Pipe standard:

- AL Standard No.: 50030 (ZB10C1)

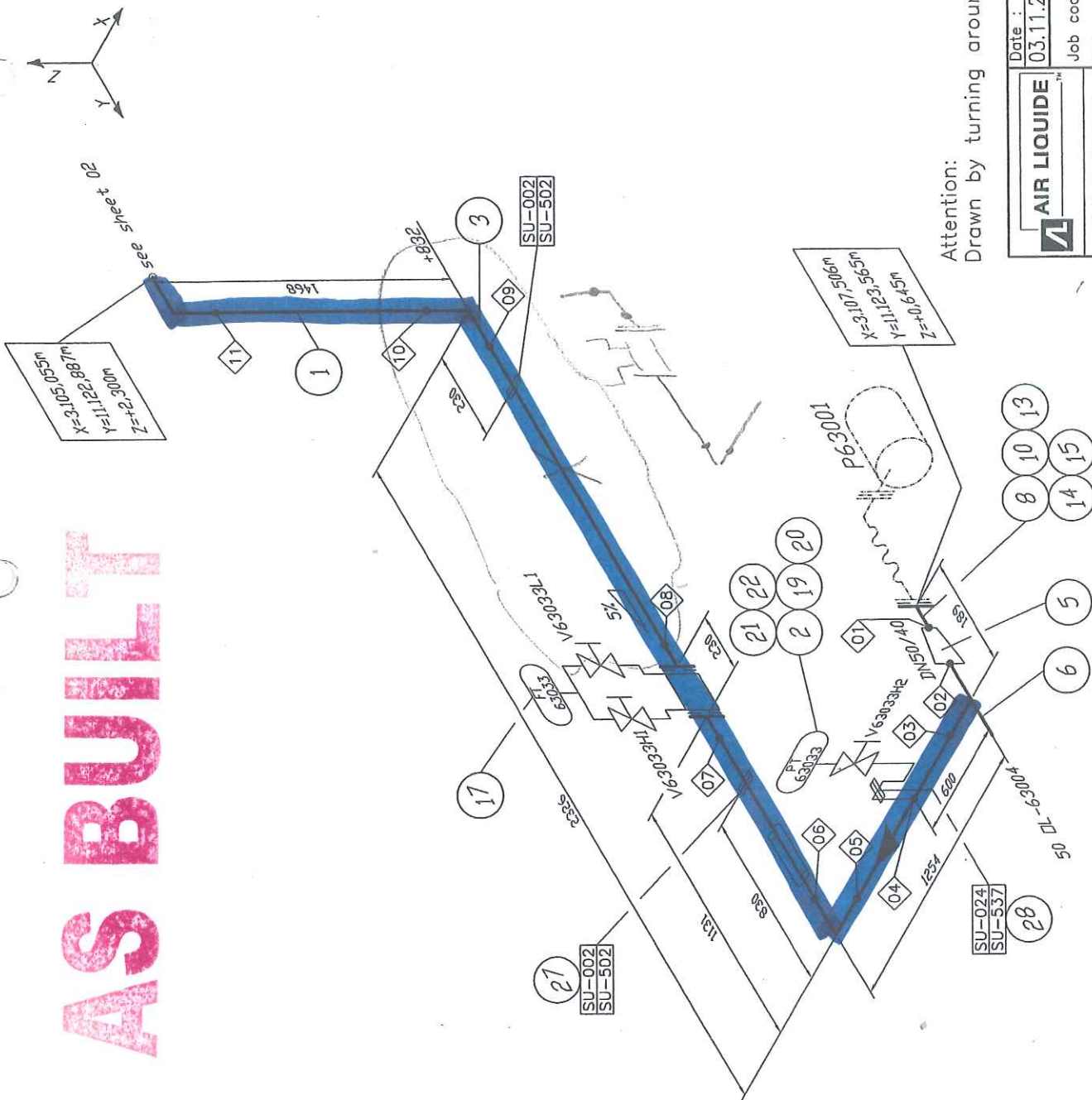
Foam glass

Kyslík

50 OL-61 106

IZOLÁCIA  Foamglass - hr. 110 mm  
pozinkovaný plech - hr. 0,8 mm

AS BUILT



| Welding No. | DN | Diameter | Welder No. | Protocol No. |
|-------------|----|----------|------------|--------------|
| 01          | 40 | 48,3     |            |              |
| 02          | 50 | 60,3     |            |              |
| 03          | 50 | 60,3     |            |              |
| 04          | 50 | 60,3     |            |              |
| 05          | 50 | 60,3     |            |              |
| 06          | 50 | 60,3     |            |              |
| 07          | 50 | 60,3     |            |              |
| 08          | 50 | 60,3     |            |              |
| 09          | 50 | 60,3     |            |              |
| 10          | 50 | 60,3     |            |              |
| 11          | 50 | 60,3     |            |              |

Remarks:

- Responsibility of the assembling company:
- Situation of mounting seams
  - Situation of pass-lengths
  - Check of measure details and pipe courses on the construction site
  - Situation of the spindle at valve

Accompanying drawings:

- 50 OL-63003 ZB10C1C Blatt 02
- 50 OL-63004 ZB40C1C

Accompanying lists:

- 50 OL-63003 ZB10C1C

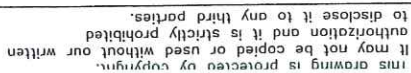
Pipe standard:

- AL Standard No.: 50030 (ZB10C1)

Attention:  
Drawn by turning around 45°

25.7

|                       |  |                        |                  |                         |                            |
|-----------------------|--|------------------------|------------------|-------------------------|----------------------------|
| AIR LIQUIDE           |  | Date : 03.11.2004      | Name : Reid./IES | Checked: Hr. Gons       | History file: 79287106.doc |
| Air Liquide AGS GmbH  |  | Job code: K70101       | Scale: ---       | Original format: DIN A3 |                            |
| Reference: ASU Kosice |  | Sheet: 001             | of 002           | Sheets                  | Rev.                       |
| Title: 50 OL-63003    |  | Drawing No.: 792.87106 |                  | C                       |                            |



Remarks:

- Responsibility of the assembling company:
- Situation of mounting seams
- Situation of pass-lengths
- Check of measure details and pipe courses on the construction site
- Situation of the spindle at valve

Accompanying lists:  
- 50 OL-63003 ZB10C1C

Pipe standard:  
- AL Standard No.:  
50030 (ZB10C1)



**AIR LIQUIDE**<sup>TM</sup>

Job code: K70101

Reference: ASU Kosice

Title:

50 OL-63003

792.87106

Ky slika

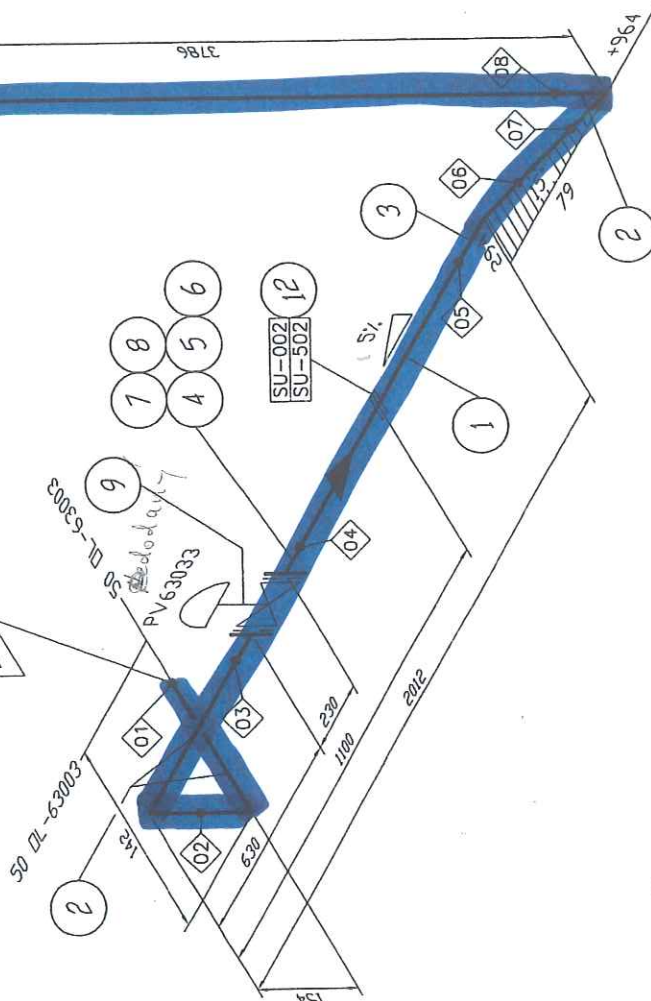
50 OL - 63 003

IZOLÁCIA  Foamglass Hr. 110 mm  
pozinkovaný plech - Hr. 0,8 mm

# ASBUILT

$X=3101,954m$   
 $Y=11112,717m$   
 $Z=+4,750m$

$X=3101,684m$   
 $Y=11112,717m$   
 $Z=+4,750m$



| Welding No. | DN | Diameter | Welder No. | Protocol No. |
|-------------|----|----------|------------|--------------|
| 01          | 50 | 60,3     | ---        | ---          |
| 02          | 50 | 60,3     | ---        | ---          |
| 03          | 50 | 60,3     | ---        | ---          |
| 04          | 50 | 60,3     | ---        | ---          |
| 05          | 50 | 60,3     | ---        | ---          |
| 06          | 50 | 60,3     | ---        | ---          |
| 07          | 50 | 60,3     | ---        | ---          |
| 08          | 50 | 60,3     | ---        | ---          |
| 09          | 50 | 60,3     | ---        | ---          |
| 10          | 50 | 60,3     | ---        | ---          |

Re. 09001/172

**Remarks:**  
 Responsibility of the assembling company:  
 - Situation of mounting seams  
 - Situation of pass-lengths  
 - Check of measure details and pipe courses on the construction site  
 - Situation of the spindle at valve

**Accompanying drawings:**  
 - 50 OL-63003 ZB10C1C

**Accompanying lists:**  
 - 50 OL-63004 ZB10C1C

**Pipe standard:**  
 - AL Standard No.: 50030 (ZB10C1)

**Attention:**  
 Drawn by turning around 45°

| Rev. | Revisions | Date     | Name  | provid |
|------|-----------|----------|-------|--------|
| ---  | ---       | ---      | ---   | ---    |
| -A   | ---       | 19.01.05 | Ry/ES | Gans   |

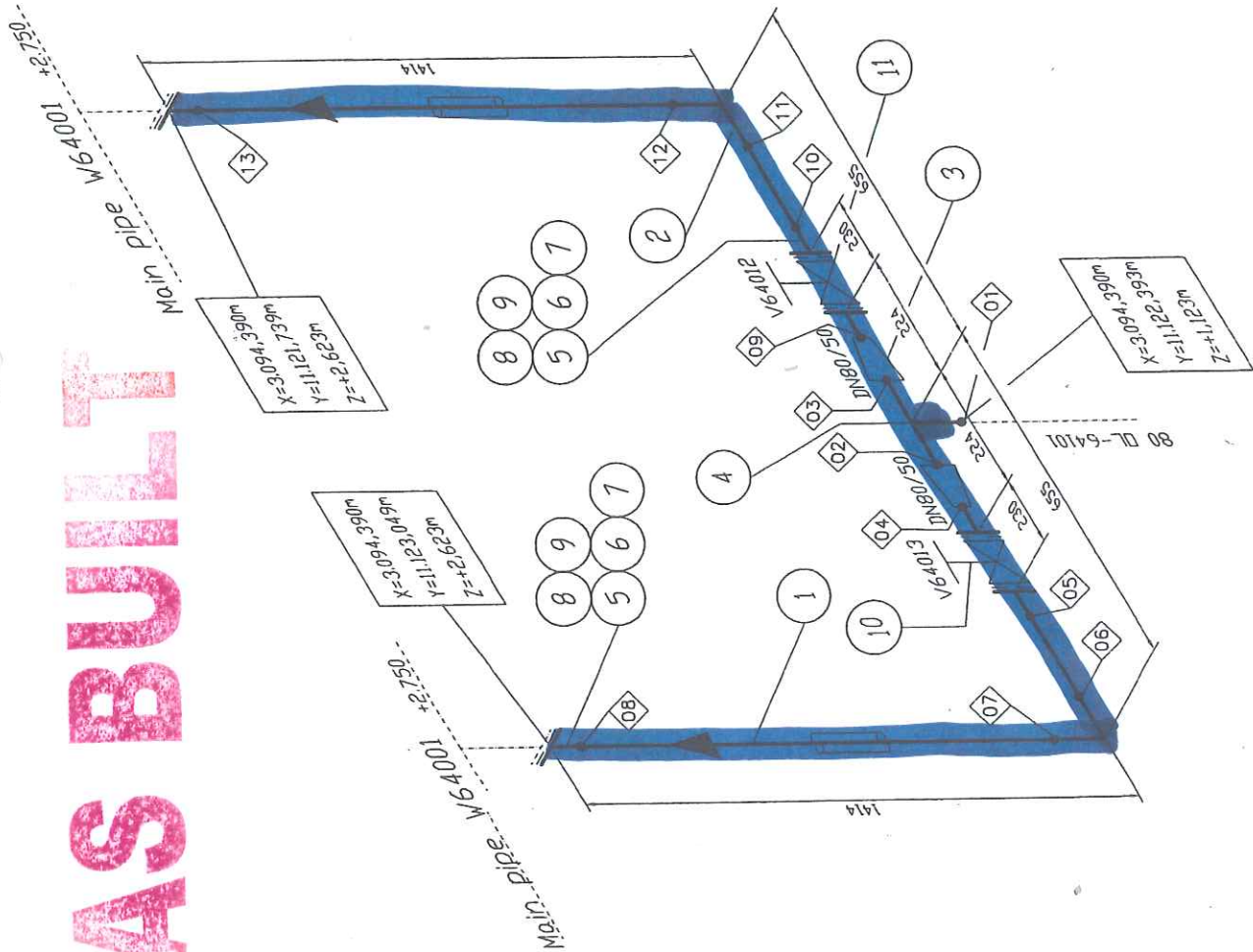
|                      |                  |                          |                       |                   |                            |
|----------------------|------------------|--------------------------|-----------------------|-------------------|----------------------------|
| <b>AIR LIQUIDE</b>   |                  | Date : 02.10.2004        | Name : Reid./IES      | Checked: Hr. Gans | History file: 79287106.doc |
| Air Liquide AGS GmbH |                  | Job code: K70101         | Reference: ASU Kosice | Scale: ---:---    | Original format: DIN A3    |
| Replaces: 79_        | Replaced by: 79_ | Sheet: 001 of 001 Sheets |                       |                   |                            |
| Title: 50 OL-63004   |                  | Drawing No.: 792.87106_A |                       |                   |                            |

Kyselík

50 OL - 63004

izolácia  Foamglass Hr. 110 mm  
pozinkovaný plech - hr. 98 mm

# ASBUILT



| Welding No. | DN | Diameter | Welder No. | Protocol No. |
|-------------|----|----------|------------|--------------|
| 01          | 80 | 88,9     |            |              |
| 02          | 80 | 88,9     |            |              |
| 03          | 80 | 88,9     |            |              |
| 04          | 50 | 60,3     |            |              |
| 05          | 50 | 60,3     |            |              |
| 06          | 50 | 60,3     |            |              |
| 07          | 50 | 60,3     |            |              |
| 08          | 50 | 60,3     |            |              |
| 09          | 50 | 60,3     |            |              |
| 10          | 50 | 60,3     |            |              |
| 11          | 50 | 60,3     |            |              |
| 12          | 50 | 60,3     |            |              |
| 13          | 50 | 60,3     |            |              |

*Re. operas 17-4*

## Remarks:

- Responsibility of the assembling company:
- Situation of mounting seams
  - Situation of pass-lengths
  - Check of measure details and pipe courses on the construction site
  - Situation of the spindle at valve

## Accompanying drawings:

- 80 OL-64101 ZB40C1

## Accompanying lists:

- 50 OL-64004 ZB40C1

## Pipe standard:

- AL Standard No.: 50006 (ZB40C1)

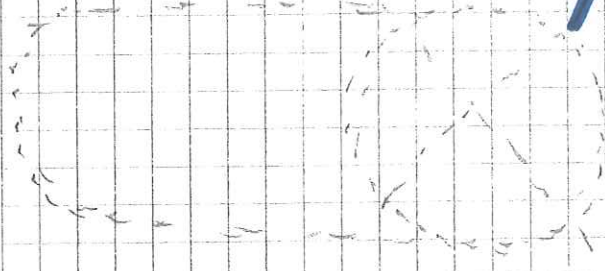
|                      |    |             |                 |               |              |
|----------------------|----|-------------|-----------------|---------------|--------------|
| <b>AIR LIQUIDE</b>   |    | Date :      | 08.11.2004      | Name :        | Reid./IES    |
| Air Liquide AGS GmbH |    | Job code:   | K70101          | Checked:      | Hr. Gans     |
| Reference:           |    | ASU Kosice  |                 | History file: | 79287106.doc |
| Replaces:            | 79 | Scale       | Original format | Rev./         | Revisions    |
| Replaced by:         | 79 | Sheet: 001  | DIN A3          | Date          | Name         |
| Title:               |    | 50 OL-64004 |                 | provid        | Gans         |
| Drawing No.:         |    | 792.87106   |                 |               |              |
| Rev.:                |    | A           |                 |               |              |

Kyslik

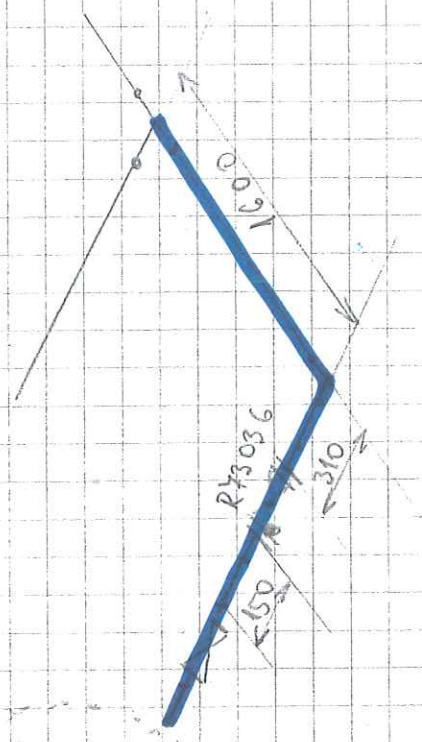
50 OL - 64004

IZOLÁCIA  Foamglass Hr. 120 mm  
pozinkovaný plech hr. 0,8 mm





B73001



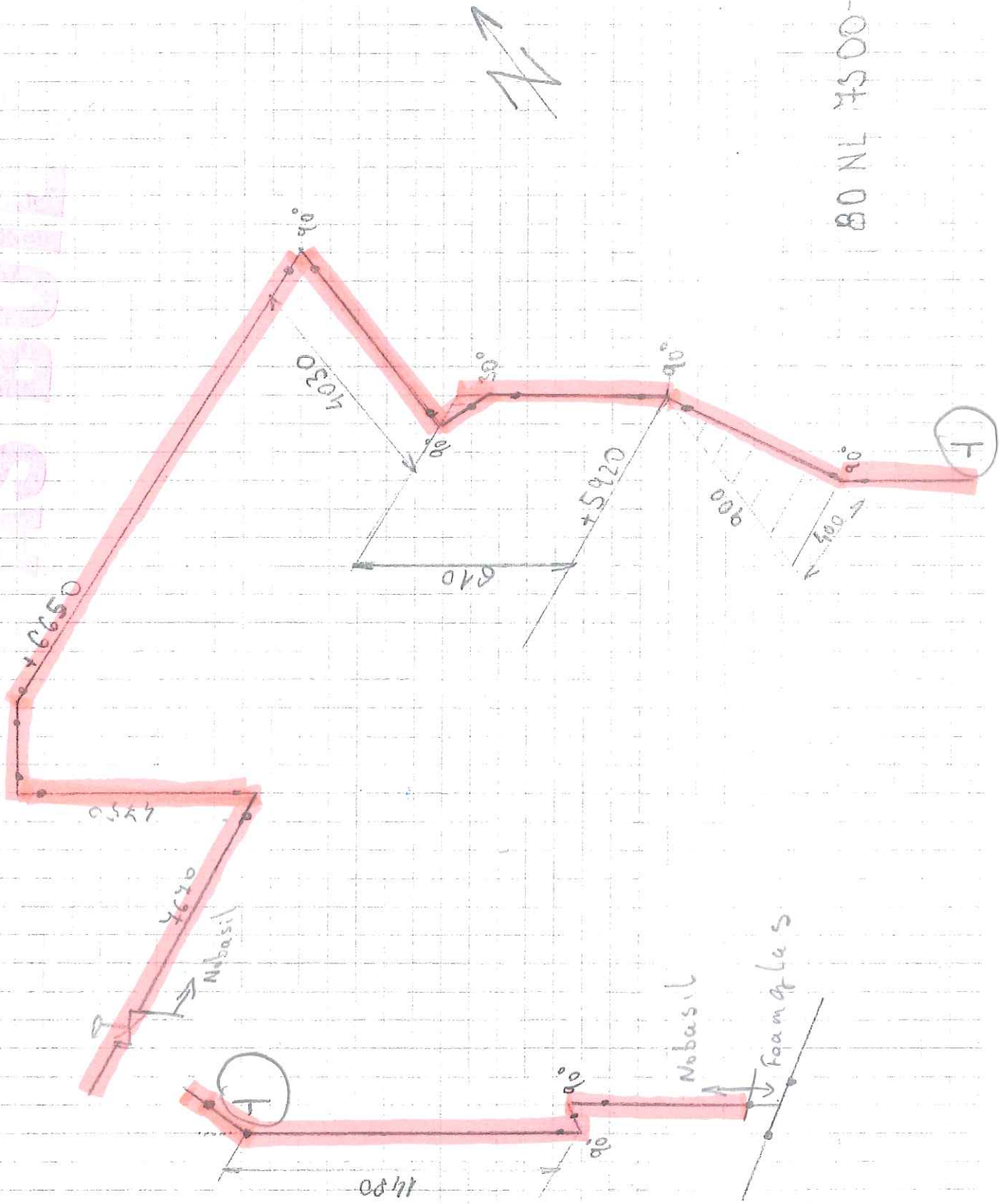
80 NL 73001

Sheet 2

Foamglas

sheet

1005708



DUSÍK-80 NL 73 001

(1. vrstva)

izolácia  Foamglas - hr. 70 mm

pozink. plech - hr. 0,8 mm

Druhá vrstvu izolácie nebolo možné namontovať  
v požadovanej hrúbke projektu.

Trasa nespadá pod garanciu.

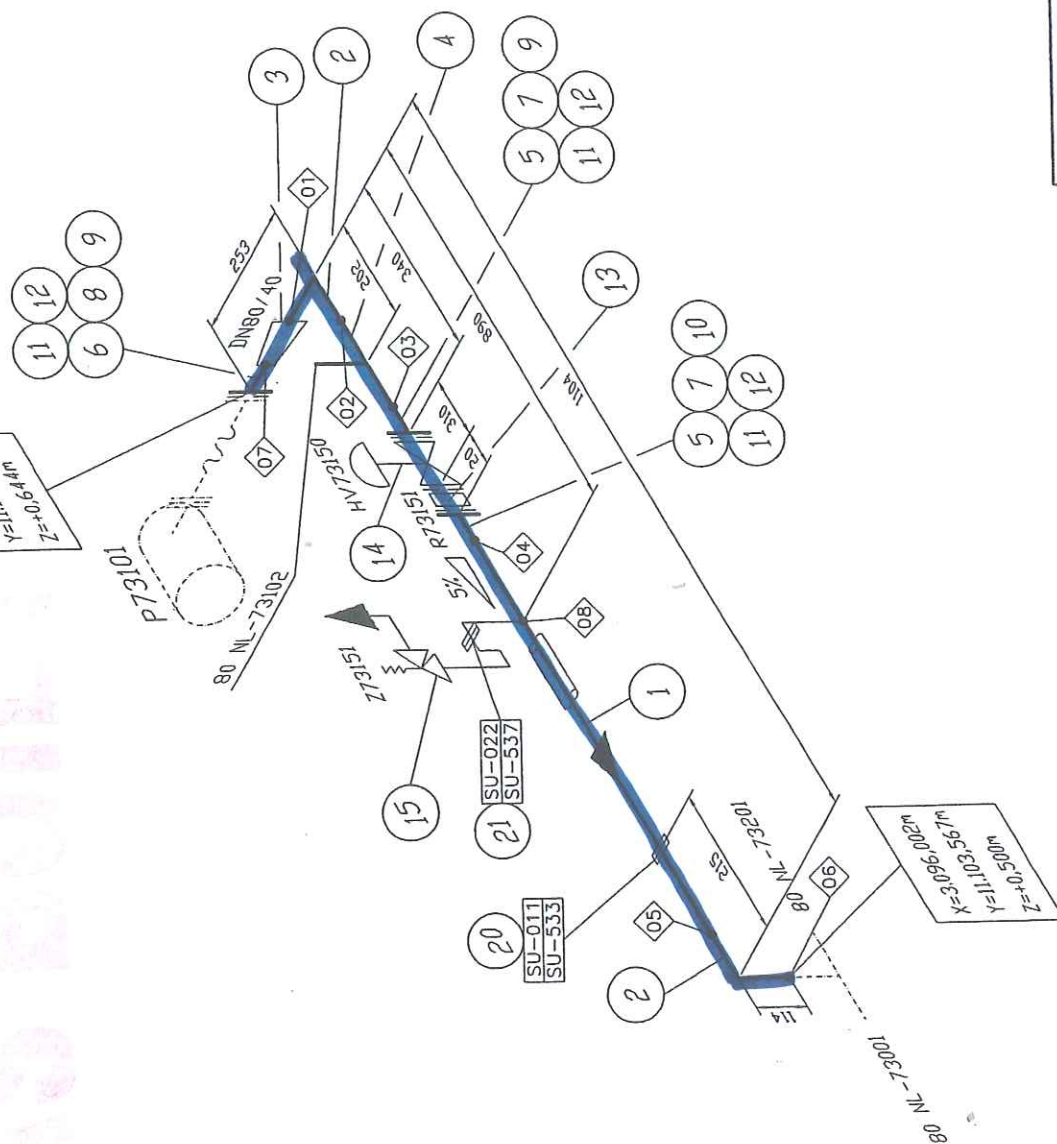
Sheet-2

Dusík - 80 NL 73 001

izolácia  Rockwool WM 105 ZINC HR - 80 mm

pozink. plech Hr. 0,8 mm

Sheet-1



Re. 2000-7-1

Responsibility of the assembling company:

- Situation of mounting seams
- Situation of pass-lengths
- Check of measure details and pipe courses on the construction site
- Situation of the spindle at valve

80 NL-73201 ZB25C1C  
80 NL-73001 ZB25C1C  
80 NL-73102 ZB25C1C

Parts list:  
80 NL-73101 ZB25C1C

— AL Standard No.:  
50026 (ZB25C1)

History file:

Original format  
DIN A3

|      |      |
|------|------|
| No.: | Rev. |
|------|------|

10/1/01

|               |                 |
|---------------|-----------------|
| <b>Scale</b>  | Original format |
| <b>DIN A3</b> |                 |

|                      |              |      |
|----------------------|--------------|------|
| Reference:           | Since: 00    | Rev. |
| Air Liquide AGS GmbH | Drawing No.: |      |

Replaced by: 80 NL- / 3101 192.0 / 100 D

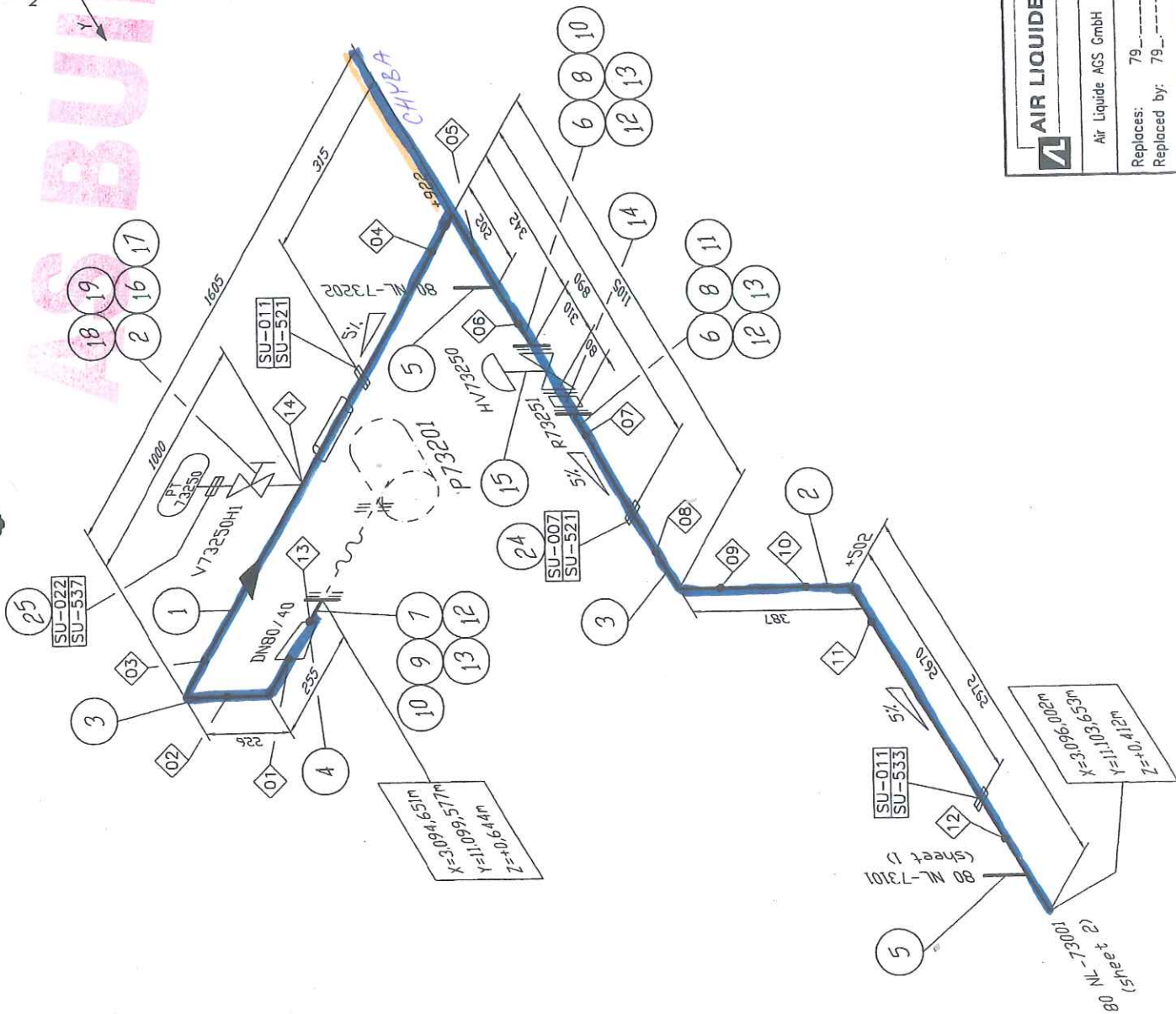
Dnsík 80 NL - 73 101

izol.  Foamglass hr. (1. vrstva)  
70 mm

pozink. plech - Hr. 0,8 mm

Drátní vrstvu izolácie nebolo možné namontovať  
v požadovanej hrúbke projektu.

Trasa nespadá pod garanciu.



| Welding No. | DN | Diameter | Welder No. | Protocol No. |
|-------------|----|----------|------------|--------------|
| 01          | 80 | 88.9     |            |              |
| 02          | 80 | 88.9     |            |              |
| 03          | 80 | 88.9     |            |              |
| 04          | 80 | 88.9     |            |              |
| 05          | 80 | 88.9     |            |              |
| 06          | 80 | 88.9     |            |              |
| 07          | 80 | 88.9     |            |              |
| 08          | 80 | 88.9     |            |              |
| 09          | 80 | 88.9     |            |              |
| 10          | 80 | 88.9     |            |              |
| 11          | 80 | 88.9     |            |              |
| 12          | 80 | 88.9     |            |              |
| 13          | 40 | 48.3     |            |              |
| 14          |    | 21.3     |            |              |

*Rec. 09.05.2004*

#### Remarks:

Responsibility of the assembling company:

- Situation of mounting seams
- Situation of pass-lengths
- Check of measure details and pipe courses on the construction site
- Situation of the spindle at valve

#### Accompanying drawings:

- 80 NL-73202 ZB25C1C
- 80 NL-73101 ZB25C1C
- 80 NL-73001 ZB25C1C

#### Accompanying lists:

- Parts list:
- 80 NL-73201 ZB25C1C

|                       |  |                        |  |                         |  |                            |  |
|-----------------------|--|------------------------|--|-------------------------|--|----------------------------|--|
| Date: 25.10.2004      |  | Name: Reid./IES        |  | Checked: Hr. Gans       |  | History file: 79287106.doc |  |
| Job code: K70101      |  | Scale: ---:---         |  | Original format: DIN A3 |  | Sheet: 001 of 001          |  |
| Reference: ASU Kosice |  | Drawing No.: 792.87106 |  | Rev. B                  |  |                            |  |
| Replaces: 79_         |  | Replaced by: 79_       |  | Title: 80 NL-73201      |  |                            |  |
| Air Liquide ACS GmbH  |  | Job code: K70101       |  | Reference: ASU Kosice   |  | Drawing No.: 792.87106     |  |
| Replaces: 79_         |  | Replaced by: 79_       |  | Title: 80 NL-73201      |  |                            |  |

Dusík 80 NL-73 201

izolácia — Foamglass

(1. vrstva)

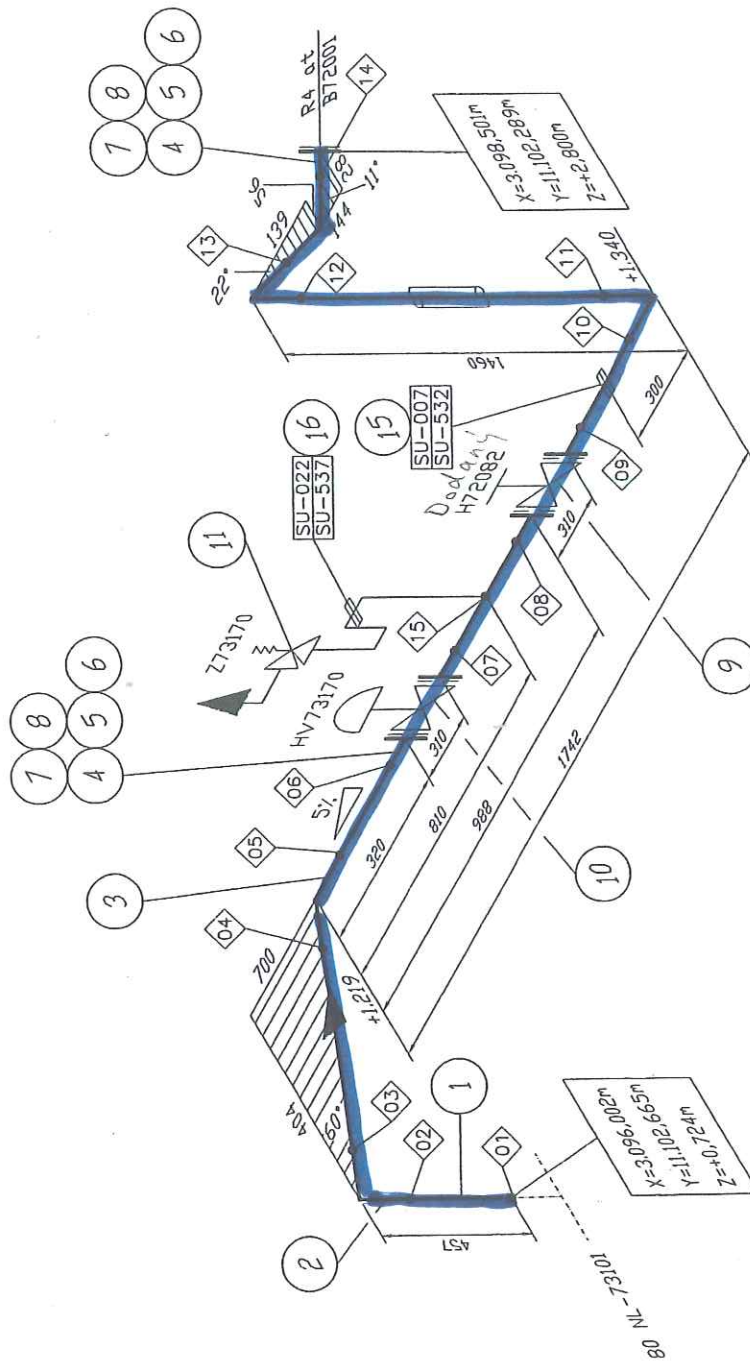
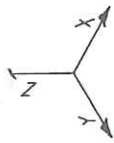
hr. 70 mm

pozinkovaný plech — hr. 0,8 mm

Druhá vrstvu nebolo možné namontovať  
v požadovanej hrúbke

Trasa nespadá pod garanciu

# AS BUILT



| Welding No. | DN | Diameter | Welder No. | Protocol No. |
|-------------|----|----------|------------|--------------|
| 01          | 80 | 88,9     | ---        | ---          |
| 02          | 80 | 88,9     | ---        | ---          |
| 03          | 80 | 88,9     | ---        | ---          |
| 04          | 80 | 88,9     | ---        | ---          |
| 05          | 80 | 88,9     | ---        | ---          |
| 06          | 80 | 88,9     | ---        | ---          |
| 07          | 80 | 88,9     | ---        | ---          |
| 08          | 80 | 88,9     | ---        | ---          |
| 09          | 80 | 88,9     | ---        | ---          |
| 10          | 80 | 88,9     | ---        | ---          |
| 11          | 80 | 88,9     | ---        | ---          |
| 12          | 80 | 88,9     | ---        | ---          |
| 13          | 80 | 88,9     | ---        | ---          |
| 14          | 80 | 88,9     | ---        | ---          |
| 15          | 80 | 88,9     | ---        | ---          |

## Remarks:

Responsibility of the assembling company:

- Situation of mounting seams
- Situation of pass-lengths
- Check of measure details and pipe courses on the construction site
- Situation of the spindle at valve

## Accompanying drawings:

- 80 NL-73101 ZB25C1C

## Accompanying lists:

- Parts list:
- 80 NL-73102 ZB25C1C

## Pipe standard:

- AL Standard No.: 50026 (ZB25C1)

|                       |  |                    |  |                         |  |                            |  |
|-----------------------|--|--------------------|--|-------------------------|--|----------------------------|--|
| Date: 27.10.2004      |  | Name: Reid./IES    |  | Checked: Hr. Gans       |  | History file: 79287106.doc |  |
| Job code: K70101      |  | Scale: --:--       |  | Original format: DIN A3 |  |                            |  |
| Reference: ASU Kosice |  | Sheet: 001         |  | of 001                  |  | Sheets                     |  |
| Replaces: 79          |  | Title: 80 NL-73102 |  | Drawing No.: 792.87106  |  | Rev. B                     |  |
| Replaced by: 79       |  |                    |  |                         |  |                            |  |

|      |               |          |       |        |
|------|---------------|----------|-------|--------|
| B    | diff. Changes | 15.04.05 | Rb/ES | Gans   |
| A    | diff. Changes | 18.01.05 | Rb/ES | Gans   |
| Rev. | Revisions     | Date     | Name  | proved |

Dusík - 80NL 73 102

izolácia  Foamglass

(1. vrstva)

hr. 70 mm

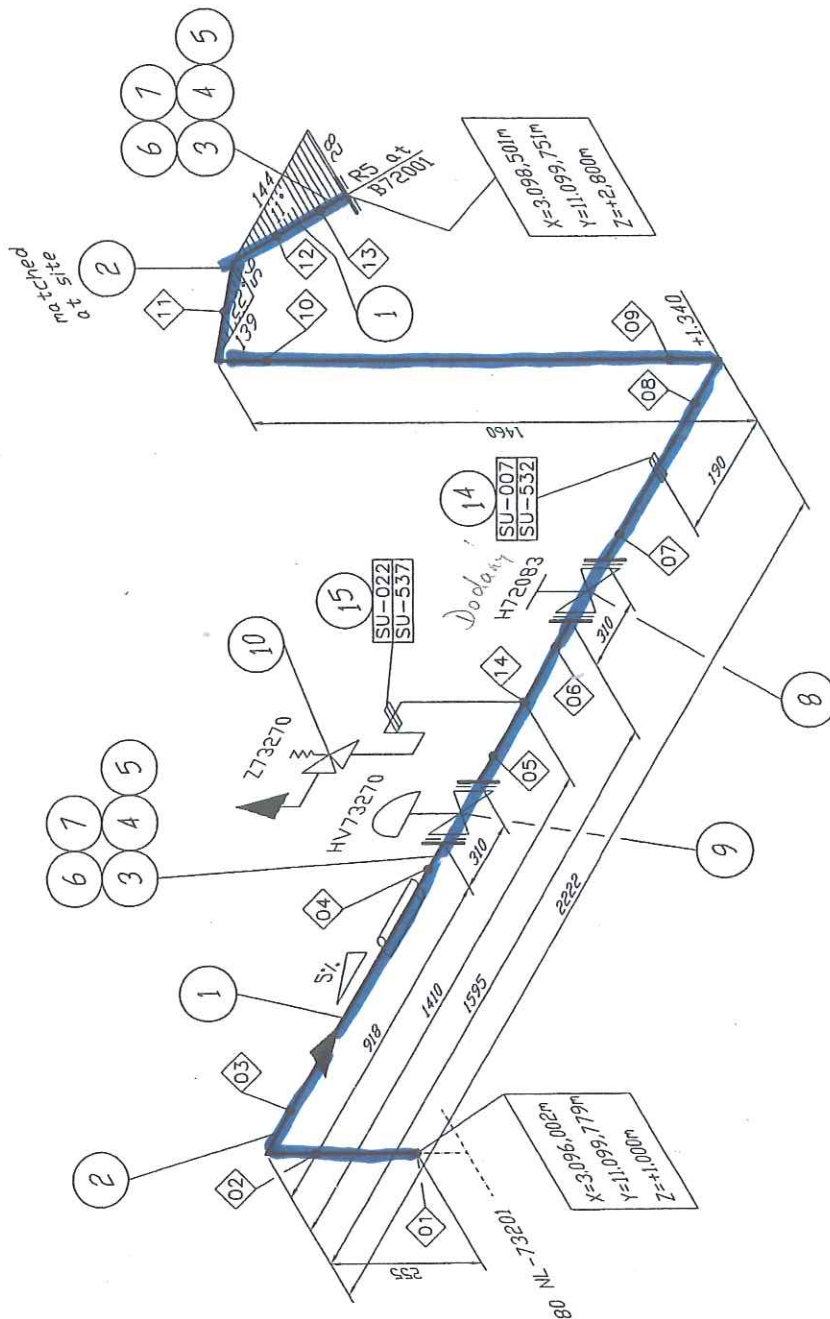
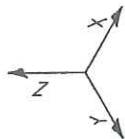
pozinkovaný plech - Hr. 0,8 mm

Druhá vrstvu nebolo možné namontovať  
v požadovanej hrúbke projektu.

Trasa nespadá pod garanciu

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ASBUL



| Welding No. | DN | Diameter | Welder No. | Protocol No. |
|-------------|----|----------|------------|--------------|
| 01          | 80 | 88,9     | ---        | ---          |
| 02          | 80 | 88,9     | ---        | ---          |
| 03          | 80 | 88,9     | ---        | ---          |
| 04          | 80 | 88,9     | ---        | ---          |
| 05          | 80 | 88,9     | ---        | ---          |
| 06          | 80 | 88,9     | ---        | ---          |
| 07          | 80 | 88,9     | ---        | ---          |
| 08          | 80 | 88,9     | ---        | ---          |
| 09          | 80 | 88,9     | ---        | ---          |
| 10          | 80 | 88,9     | ---        | ---          |
| 11          | 80 | 88,9     | ---        | ---          |
| 12          | 80 | 88,9     | ---        | ---          |
| 13          | 80 | 88,9     | ---        | ---          |
| 14          | 80 | 88,9     | ---        | ---          |
| 14          | 22 | 22       | ---        | ---          |

*Rec. 090087764*

#### Remarks:

- Responsibility of the assembling company:
- Situation of mounting seams
  - Situation of pass-lengths
  - Check of measure details and pipe courses on the construction site
  - Situation of the spindle of valve

#### Accompanying drawings:

- 80 NL-73201 ZB25C1C

#### Accompanying lists:

- Parts list: 80 NL-73202 ZB25C1C

#### Pipe standard:

- AL Standard No.: 50026 (ZB25C1)

| Rev. | Revisions     | Date     | Name  | History file: |
|------|---------------|----------|-------|---------------|
| B    | diff. Changes | 16.04.05 | Rb/ES | Gans          |
| A    | diff. Changes | 18.01.05 | Rb/ES | Gans          |
|      |               |          |       | proved        |

|                      |  |                       |  |                        |  |                            |  |
|----------------------|--|-----------------------|--|------------------------|--|----------------------------|--|
| Date : 27.10.2004    |  | Name : Reid./IES      |  | Checked: Hr. Gans      |  | History file: 79287106.doc |  |
| Job code: K70101     |  | Reference: ASU Kosice |  | Scale: ---:---         |  | Original format: DIN A3    |  |
| Air Liquide AGS GmbH |  | Title: 80 NL-73202    |  | Sheet: 001 of 001      |  | Sheets: Rev.               |  |
| Replaces: 79_        |  | Replaced by: 79_      |  | Drawing No.: 792.87106 |  | B                          |  |

80 Dusík NL-73202

|      |             |
|------|-------------|
| 70mm | - 1. vrstva |
| 50mm | - 2. vrstva |

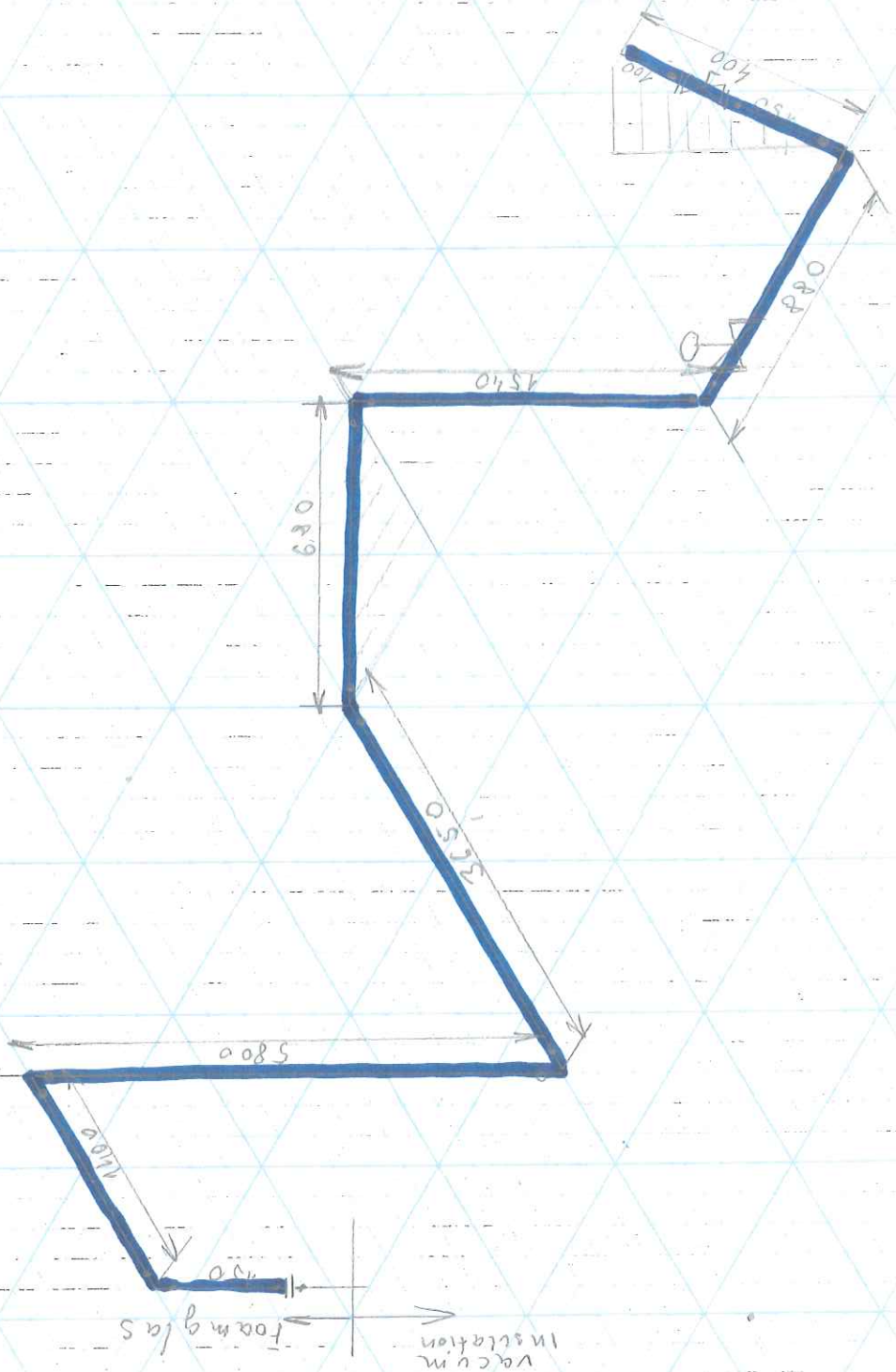
izolácia — Foamglass hrúbka 70mm

pozink. plech — HR. 0,8 mm

Druhá vrstvu nebolo možné namontovať  
v projektovej hrúbke.

Trasa nespadá pod garanciu.

AS BUILT



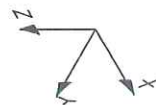
40NL 43005

Dusík - 40 NL 73005

izol. Foamglass  Hr. 120 mm (70+50)

pozink. plech - Hr. 0,8 mm

Práca naviac



Re. opat 14 21

|      |           |          |          |        |
|------|-----------|----------|----------|--------|
| B    | -----     | 13.04.05 | WIP/Rad. | -----  |
| A    | -----     | 17.12.04 | WIP/Rad. | -----  |
| Rev. | Revisions | Date     | Name     | proved |

Checked: \_\_\_\_\_ History file: \_\_\_\_\_

- Responsibility of the assembling company:
- Situation of mounting seams
- Situation of pass-lengths
- Check of measure details and pipe courses on the construction site
- Situation of the spindle at valve

— 80 NL-73003

— Parts list:  
25 NL-730

- AL Standard No.:  
50026 / ZB25C1

|            |             |                |                           |
|------------|-------------|----------------|---------------------------|
| Date :     | Name :      | Checked:       | History file:             |
| 29.10.2004 | WIP/Rad.    | —              | 79287106.doc              |
| Job code:  | K70101      | Scale<br>—:—:— | Original format<br>DIN A3 |
| Reference: | ASU Kosice  | Sheet: 001     | of 001 Sheets             |
| Title:     | 25 NL 73005 | Drawing No.:   | Rev.                      |
|            |             | 792.87106      | B                         |

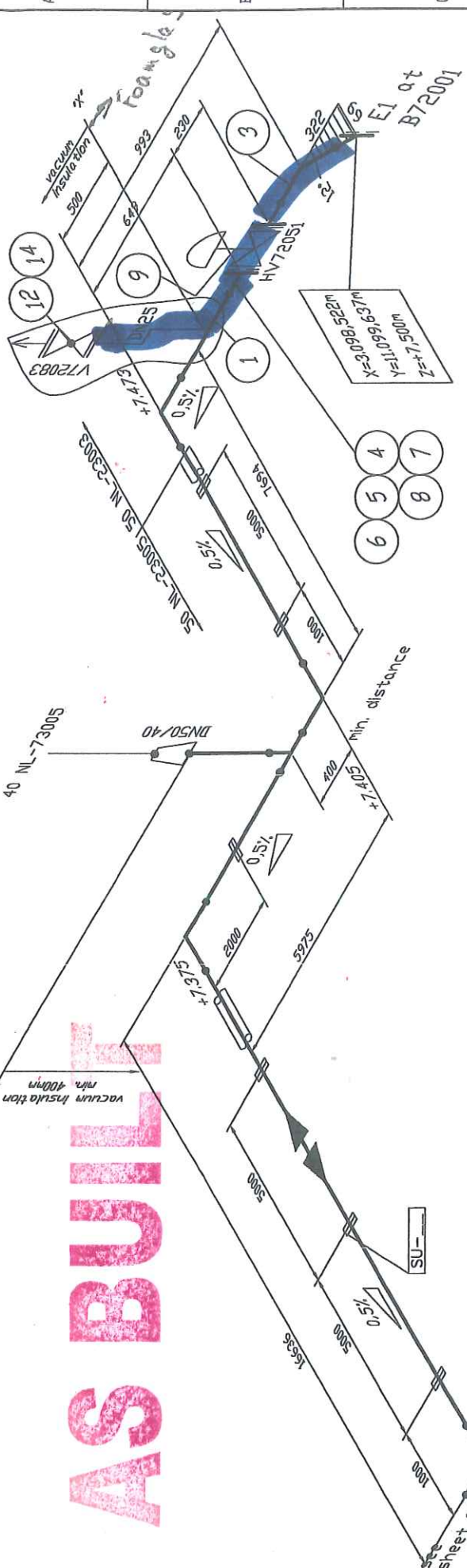
25 NL 73005

Izolácia - Foamglas hrúbka 120 mm

Plech pozinkovaný - Hr. 0.8 mm

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**AS BUILT**



**Remarks:**

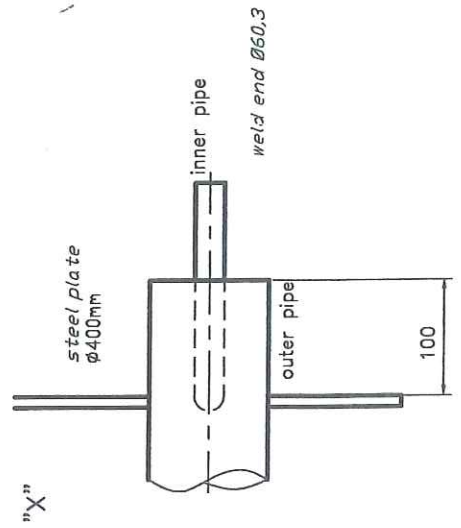
- Responsibility of the assembling company:
- Situation of mounting seams
  - Situation of pass-lengths
  - Check of measure details and pipe courses on the construction site
  - Situation of the spindle at valve

**Accompanying drawings:**

- 50 NL-23005 Sheet 01

**Accompanying lists:**

- 50 NL-23005 ZB16C1CV



Pipe Length: 31m

vacuum insulation

|                   |  |                        |  |                   |  |                             |  |
|-------------------|--|------------------------|--|-------------------|--|-----------------------------|--|
| Date : 17.02.2005 |  | Name : Reid./IES       |  | Checked: Hr. Gans |  | History file: 792------,doc |  |
| Job code: K70101  |  | Reference: ASU Kosice  |  | Scale: ---:---    |  | Original format: DIN A3     |  |
| Replaces: 79_     |  | Title: 50 NL-23005     |  | Sheet: 002        |  | of 002 Sheets               |  |
| Replaced by: 79_  |  | Drawing No.: 792.87106 |  | Rev.:             |  | C                           |  |

50 NL 23005

Izolácia - Foamglas hrúbka 120 mm

Plech pozinkovaný - Hr. 0,8 mm.

# AS BUILT

## Remarks:

- Responsibility of the assembling company:
- Situation of mounting seams
  - Situation of pass-lengths
  - Check of measure details and pipe courses on the construction site
  - Situation of the spindle at valve

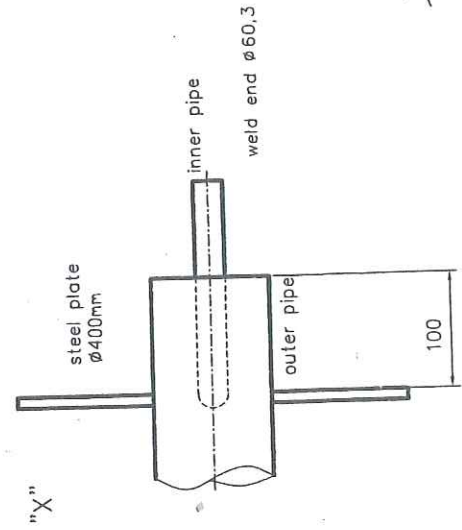
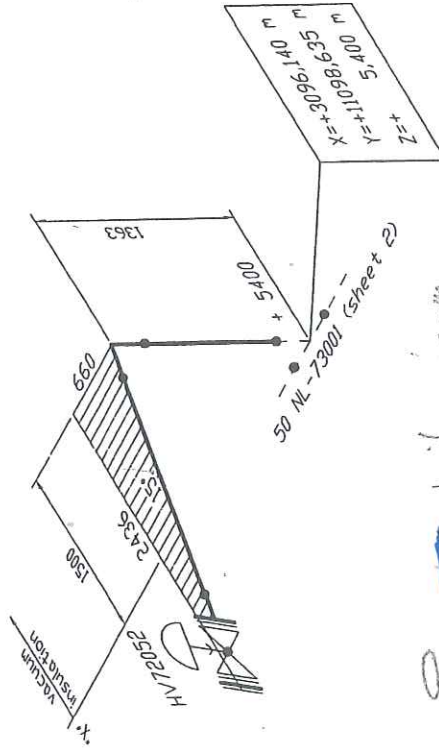
## Accompanying drawings:

- 50 NL-73001

## Accompanying lists:

- Parts list:

*Rev. 000000 1/1 6/9*



Pipe Length: 3m

vacuum insulated

|                      |  |                       |  |                        |  |                            |  |
|----------------------|--|-----------------------|--|------------------------|--|----------------------------|--|
| Date : 06.04.05      |  | Name : WIP/Rad.       |  | Checked: -             |  | History file: 79287106.doc |  |
| Job code: K70101     |  | Reference: ASU Kosice |  | Scale: --:--           |  | Original format: DIN A3    |  |
| Air Liquide ACS GmbH |  | Title: 50 NL 72003    |  | Sheet: 001 of 001      |  | Sheets: Rev. --            |  |
| Replaces: 79         |  | Replaced by: 79       |  | Drawing No.: 792.87106 |  | Rev. --                    |  |

50 NL 72003

Izolácia ■ Foamglas - hr. 120 mm

Pozinkovaný plech - hr. 0,8 mm.

Tank Farm - izolácia Rockwool rohože WM 105, pz plech

Tank Farm - insulation by Rockwool WM 105, hot deep galvanised plate

| Vetva / pipe line | Typ izolácie / type of insulation | Hr. mm / thickness | Plech / plate | Hr. mm / thickness mm | Poznámka / REMARK |
|-------------------|-----------------------------------|--------------------|---------------|-----------------------|-------------------|
| 150 OL-62001      | rockwool                          | 100                | pz/ HDG       | 0,8                   |                   |
| 100 OL-62001      | rockwool                          | 100                | pz/ HDG       | 0,8                   |                   |
| 150 OL-62002      | rockwool                          | 100                | pz/ HDG       | 0,8                   |                   |
| 100 OL-62002      | rockwool                          | 100                | pz/ HDG       | 0,8                   |                   |
| 80 OL-62002       | rockwool                          | 100                | pz/ HDG       | 0,8                   |                   |
| 80 OL-62003       | rockwool                          | 80                 | pz/ HDG       | 0,8                   |                   |
| 50 OL-62004       | rockwool                          | 80                 | pz/ HDG       | 0,8                   |                   |
| 100 OL-62005      | rockwool                          | 100                | pz/ HDG       | 0,8                   |                   |
| 25 OL-64002       | rockwool                          | 60                 | pz/ HDG       | 0,8                   |                   |
| 80 OL-64101       | rockwool                          | 100                | pz/ HDG       | 0,8                   |                   |
| 80 OL-64102       | rockwool                          | 100                | pz/ HDG       | 0,8                   |                   |
| 0 OL-64201        | rockwool                          | 100                | pz/ HDG       | 0,8                   |                   |
| 80 OL - 64202     | rockwool                          | 100                | pz/ HDG       | 0,8                   |                   |
| 150 NL-72001      | rockwool                          | 100                | pz/ HDG       | 0,8                   |                   |
| 80 NL - 72001     | rockwool                          | 100                | pz/ HDG       | 0,8                   |                   |
| 80 NL-72004       | rockwool                          | 100                | pz/ HDG       | 0,8                   |                   |
| 100 NL-72101      | rockwool                          | 100                | pz/ HDG       | 0,8                   |                   |
| 80 NL-72102       | rockwool                          | 80                 | pz/ HDG       | 0,8                   |                   |
| 50 N-72103        | rockwool                          | 80                 | pz/ HDG       | 0,8                   |                   |
| 80 NL-73001       | rockwool                          | 80                 | pz/ HDG       | 0,8                   |                   |
| 80 NL-73003       | rockwool                          | 100                | pz/ HDG       | 0,8                   |                   |
| 50 NL-73007       | rockwool                          | 80                 | pz/ HDG       | 0,8                   |                   |
| 25 NL-73008       | rockwool                          | 60                 | pz/ HDG       | 0,8                   |                   |
| 100 NL-74090      | rockwool                          | 80                 | pz/ HDG       | 0,8                   |                   |
| 50 NL-74101       | rockwool                          | 80                 | pz/ HDG       | 0,8                   |                   |
| 50 NL-74102       | rockwool                          | 80                 | pz/ HDG       | 0,8                   |                   |
| 50 NL-74201       | rockwool                          | 80                 | pz/ HDG       | 0,8                   |                   |
| 50 NL-74202       | rockwool                          | 80                 | pz/ HDG       | 0,8                   |                   |
|                   |                                   |                    |               |                       |                   |
|                   |                                   |                    |               |                       |                   |



Kyslik

150 OL - 62 001

IZOLÁCIA - Rockwool WM 105 ZINC Hr: 100mm  
pozinkovaný plech - Hr. 0,8mm

Trasa nie je v zozname - (práca naviac)

# AS BUILT

*Rec. 09.08.2004*

| Welding No. | DN  | Diameter | Welder No. | Protocol No. |
|-------------|-----|----------|------------|--------------|
| 01          | 100 | 114,3    |            |              |
| 02          | 100 | 114,3    |            |              |
| 03          | 100 | 114,3    |            |              |
| 04          | 100 | 114,3    |            |              |
| 05          | 100 | 114,3    |            |              |
| 06          | 100 | 114,3    |            |              |
| 07          | 100 | 114,3    |            |              |
| 08          | 100 | 114,3    |            |              |
| 09          | 100 | 114,3    |            |              |
| 10          | 65  | 76,1     |            |              |
| 11          |     | 24       | 48         |              |
| 12          |     | 33       | 48         |              |

## Remarks:

- Responsibility of the assembling company:
- Situation of mounting seams
  - Situation of pass-lengths
  - Check of measure details and pipe courses on the construction site
  - Situation of the spindle at valve

## Accompanying drawings:

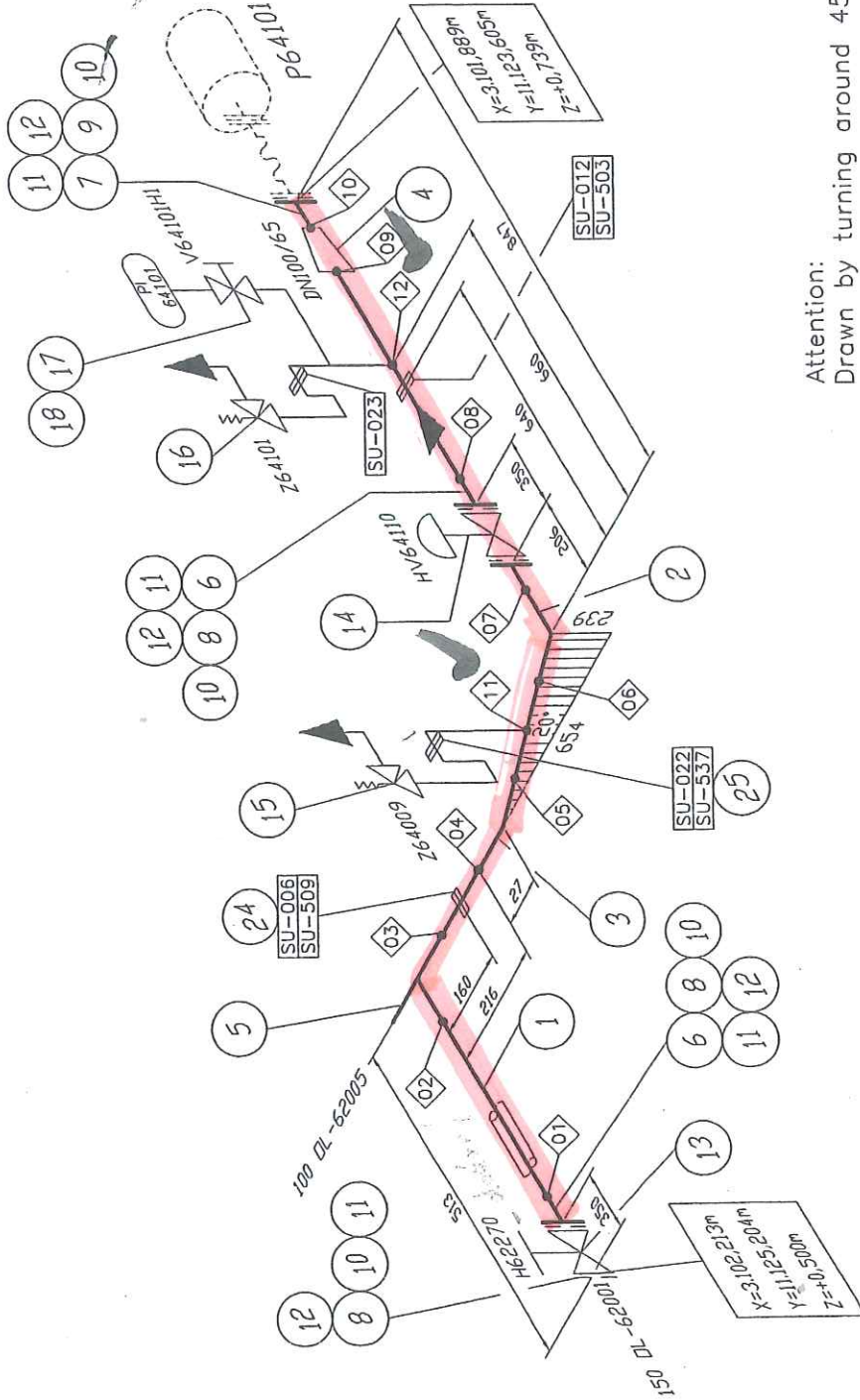
- 150 OL-62001 ZB10C1C
- 100 OL-62005 ZB10C1C

## Accompanying lists:

- Parts list:
- 100 OL-62001-ZB10C1C

## Pipe standard:

- AL Standard No.: 50030 (ZB10C1)



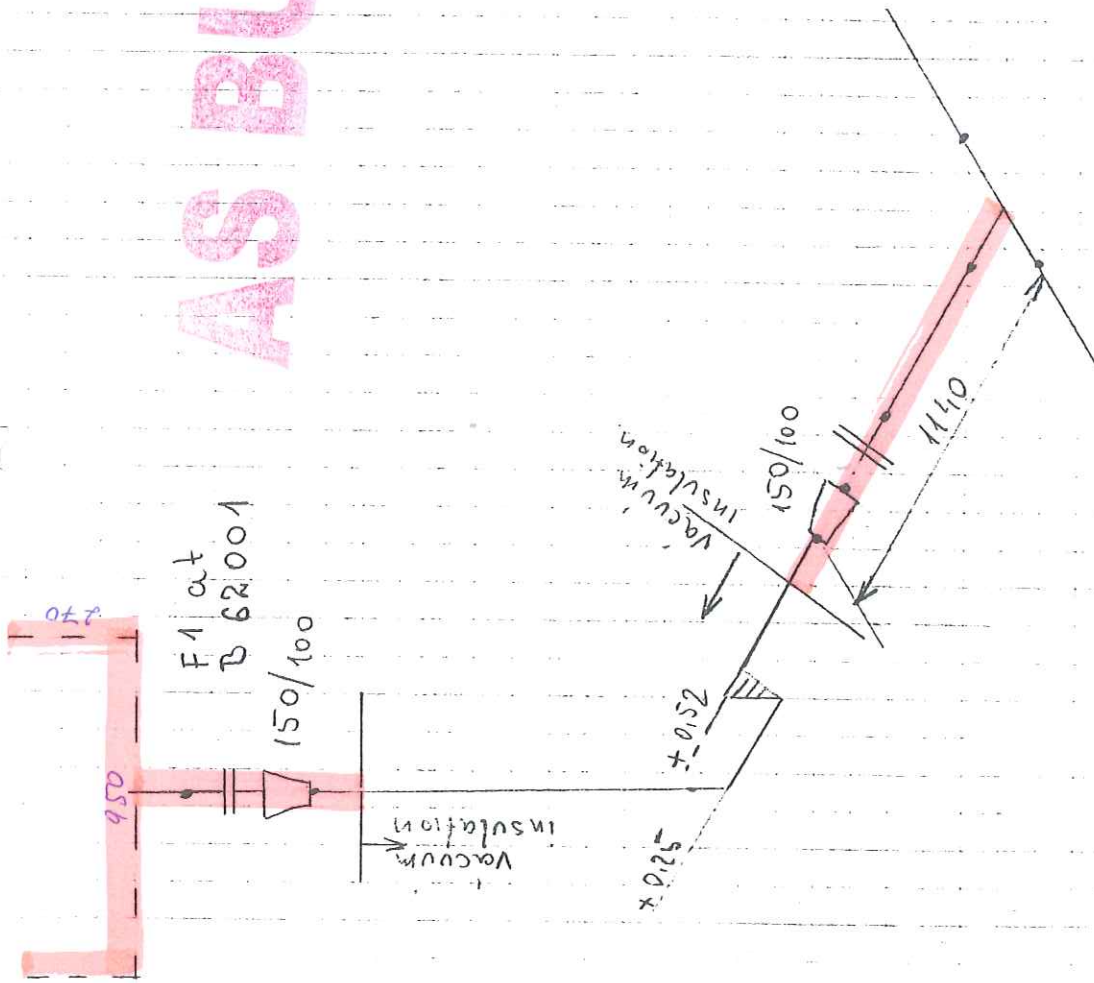
Attention:  
Drawn by turning around 45°

|                     |  |                        |  |                        |  |                            |  |
|---------------------|--|------------------------|--|------------------------|--|----------------------------|--|
| Date: 27.10.2004    |  | Name: Reid./IES        |  | Checked: Hr. Gans      |  | History file: 79287106.doc |  |
| Job code: K70101    |  | Reference: ASU Kosice  |  | Scale: Original format |  | DIN A3                     |  |
| Replaces: 79        |  | Replaced by: 79        |  | Sheet: 001             |  | of 001 Sheets              |  |
| Title: 100 OL-62001 |  | Drawing No.: 792.87106 |  | Rev. B                 |  |                            |  |

Kyslík

100 OL - 62 001

IZOLÁCIA  Rockwool WM 105 ZINC Hr. 100mm  
pozinkovaný plech - Hr. 0,8mm



150 OL-62002

Kyslík

150 OL-62 002

IZOLÁCIA - Rockwool WM 105 ZINC hr. 100 mm  
pozinkovaný plech - Hr. 0,8 mm

Trasa nie je v zozname - (práca navyše)

**AS BUILT**

*Rec. 090001 24-4*

| Welding<br>No. | DN  | Diameter | Welder<br>No. | Protocol<br>No. |
|----------------|-----|----------|---------------|-----------------|
| 01             | 150 | 168,3    |               |                 |
| 02             | 100 | 114,3    |               |                 |
| 03             | 100 | 114,3    |               |                 |
| 04             | 100 | 114,3    |               |                 |
| 05             | 100 | 114,3    |               |                 |
| 06             | 100 | 114,3    |               |                 |
| 07             | 100 | 114,3    |               |                 |
| 08             |     | 33       | 02            |                 |

### Remarks:

Responsibility of the assembling company:

- Situation of mounting seams
- Situation of pass-lengths
- Check of measure details and pipe courses on the construction site
- Situation of the spindle at valve

### Accompanying drawings:

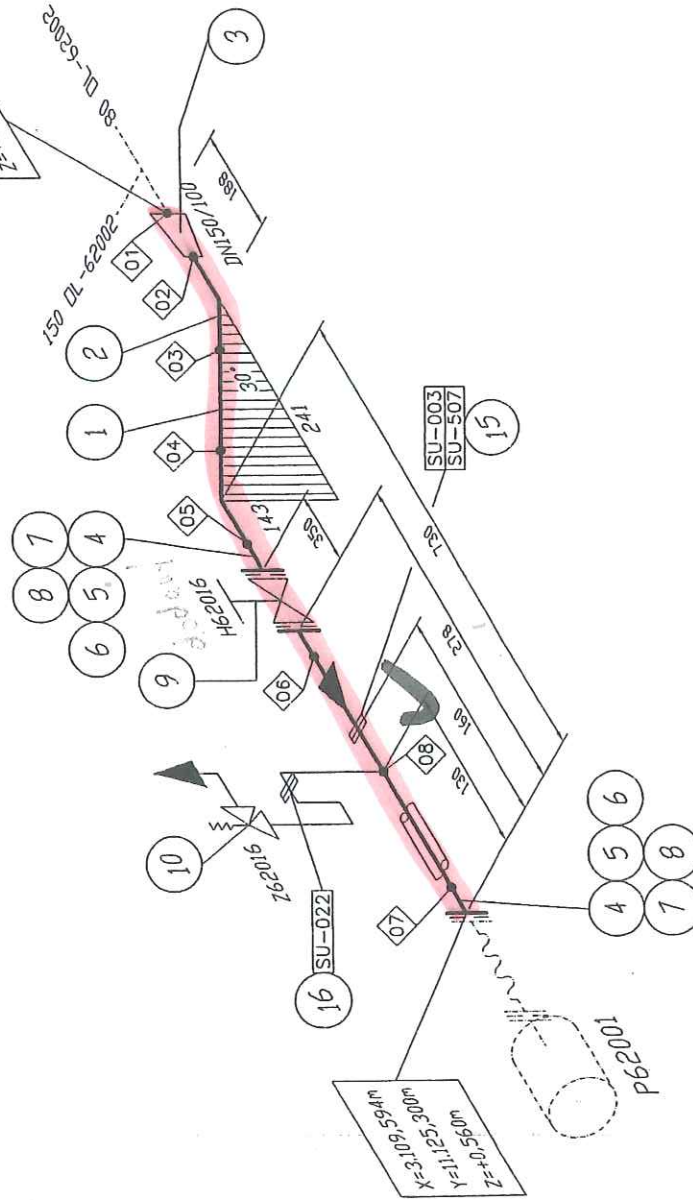
- 150 OL-62002 ZB10C1C
- 80 OL-62002 ZB10C1C

### Accompanying lists:

- 100 OL-62002 ZB10C1C

### Pipe standard:

- AL Standard No.: 50030 (ZB10C1)



Attention:  
Drawn by turning around 45°

|                     |  |                        |  |                   |  |                            |  |
|---------------------|--|------------------------|--|-------------------|--|----------------------------|--|
| Date: 27.10.2004    |  | Name: Reid./IES        |  | Checked: Hr. Gans |  | History file: 79287106.doc |  |
| Job code: K70101    |  | Reference: ASU Kosice  |  | Scale: ---        |  | Original format: DIN A3    |  |
| Replaces: 79_       |  | Replaced by: 79_       |  | Sheet: 001 of 001 |  | Sheets: Rev.               |  |
| Title: 100 OL-62002 |  | Drawing No.: 792.87106 |  | Rev. B            |  |                            |  |

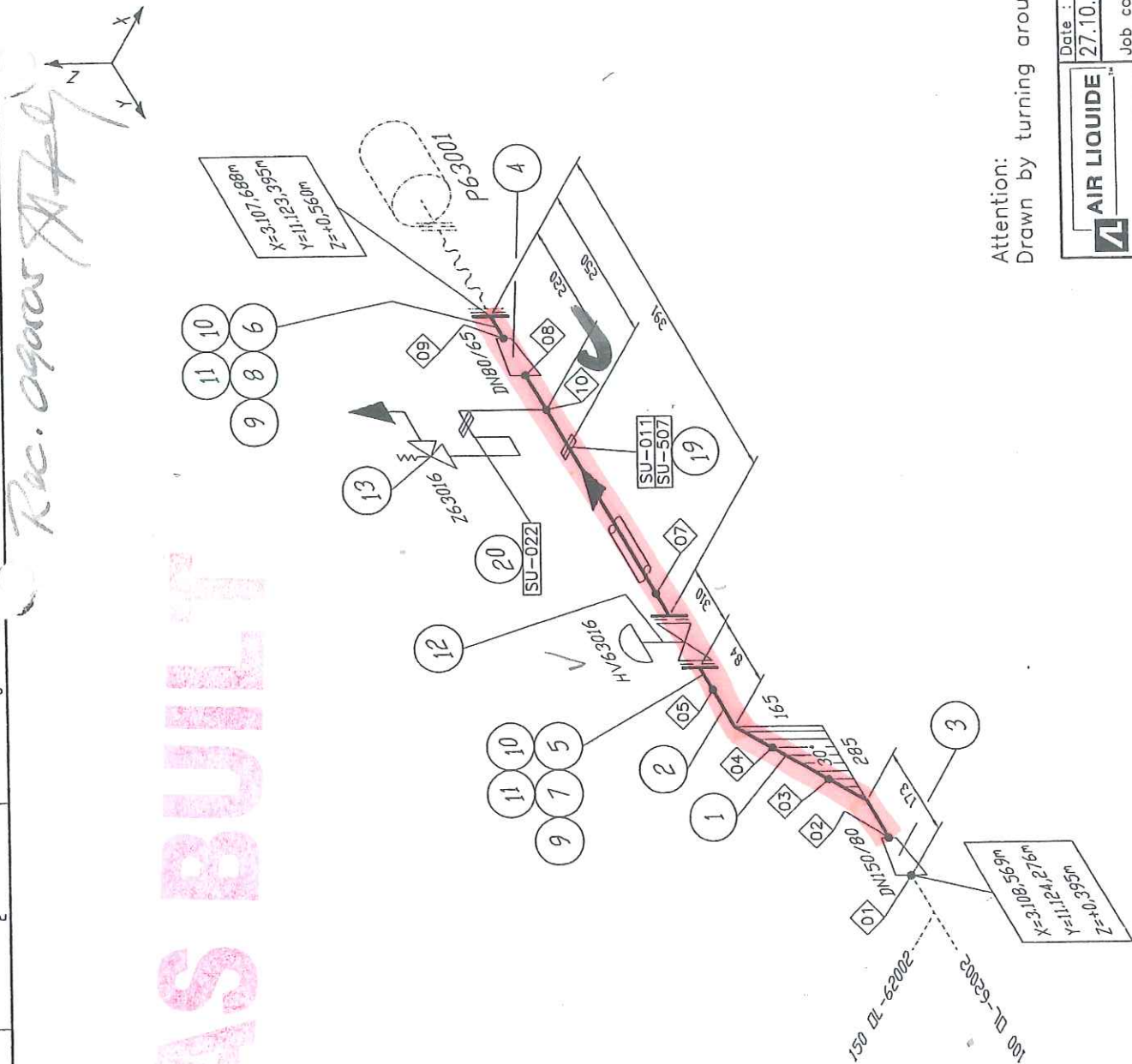
100 DL 62002

Izolačia - Rockwool WM-105 - ZINC - Hr. - 100 mm

Pozinkovaný plech - hr. 0,8 mm

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to disclose it to any third parties.

# AS BUILT



| Welding No. | DN  | Diameter | Welder No. | Protocol No. |
|-------------|-----|----------|------------|--------------|
| 01          | 100 | 114.3    | ---        | ---          |
| 02          | 80  | 88.9     | ---        | ---          |
| 03          | 80  | 88.9     | ---        | ---          |
| 04          | 80  | 88.9     | ---        | ---          |
| 05          | 80  | 88.9     | ---        | ---          |
| 06          | 80  | 88.9     | ---        | ---          |
| 07          | 80  | 88.9     | ---        | ---          |
| 08          | 80  | 88.9     | ---        | ---          |
| 09          | 65  | 76.1     | ---        | ---          |
| 10          | 33  | ---      | ---        | ---          |

Remarks:

Responsibility of the assembling company:

- Situation of mounting seams
- Situation of pass-lengths
- Check of measure details and pipe courses on the construction site
- Situation of the spindle at valve

Accompanying drawings:

- 150 OL-62002 ZB10C1C
- 100 OL-62002 ZB10C1C

Accompanying lists:

- 80 OL-62002 ZB10C1C

Pipe standard:

- AL Standard No.: 50030 (ZB10C1)

Attention: Drawn by turning around 45°

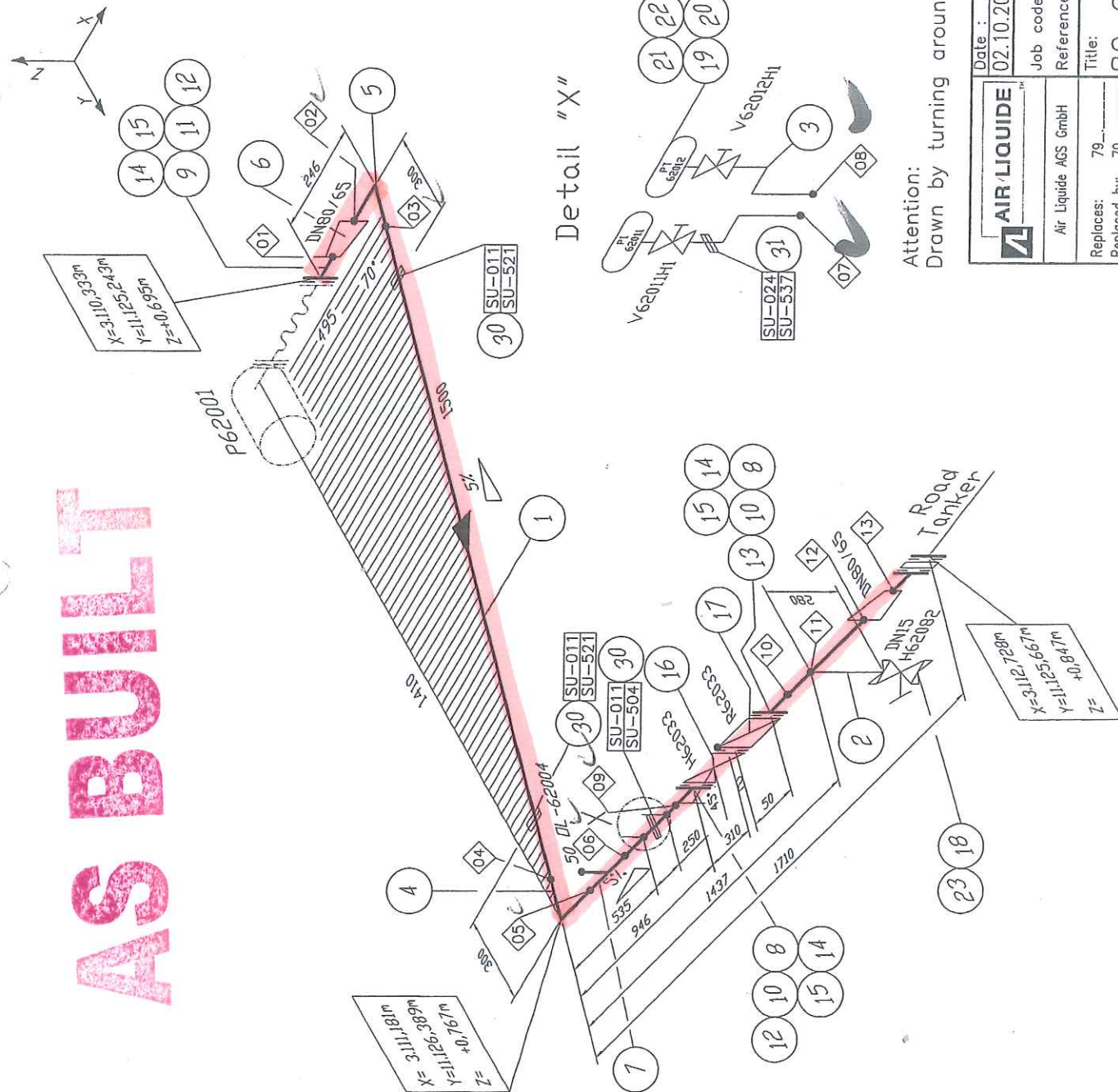
|                    |  |                        |  |                   |  |                            |  |
|--------------------|--|------------------------|--|-------------------|--|----------------------------|--|
| Date: 27.10.2004   |  | Name: Reid./IES        |  | Checked: Hr. Gans |  | History file: 79287106.doc |  |
| Job code: K70101   |  | Reference: ASU Kosice  |  | Scale: ---:---    |  | Original format: DIN A3    |  |
| Replaces: 79_      |  | Replaced by: 79_       |  | Sheet: 001 of 001 |  | Sheets: Rev.               |  |
| Title: 80 OL-62002 |  | Drawing No.: 792.87106 |  | Rev. B            |  |                            |  |

| B    | diff. Changes | 16.04.05 | Rb./IES | Gans   |
|------|---------------|----------|---------|--------|
| A    | diff. Changes | 19.01.05 | Rb./IES | Gans   |
| Rev. | Revisions     | Date     | Name    | proved |

Kyslík  
80 OL-62002

IZOLÁCIA - ROCKWOOL WM 105 ZINC Hr. 100mm  
pozinkovaný plech - hr: 0,8mm

# AS BUILT



## Remarks:

- Responsibility of the assembling company:
- Situation of mounting seams
  - Situation of pass-lengths
  - Check of measure details and pipe courses on the construction site
  - Situation of the spindle at valve

## Accompanying drawings:

- 50 OL-62004 ZB40C1C

## Accompanying lists:

- 80 OL-62003 ZB10C1C

## Pipe standard:

- AL Standard No.: 50030 (ZB10C1)

Attention:  
Drawn by turning around 45°



Date: 02.10.2004  
Reid./IES

Job code: K70101  
Reference: ASU Kosice

Title: 80 OL-62003

Replaces: 79  
Replaced by: 79

Sheet: 001 of 001  
Drawing No.: 792.87106 B

Scale: ---:---  
Original format: DIN A3

History file: 79287106.doc

Checked: Hr. Gans

Rev. Revisions Date Name proved

-B diverse 24.06.05 WIP/Red. Dz/IES

-A dif. Changes 19.01.05 Rb/IES Gans

| Welding No. | DN | Diameter | Welder No. | Protocol No. |
|-------------|----|----------|------------|--------------|
| 01          | 65 | 76,1     | 96         |              |
| 02          | 80 | 88,9     | 96         |              |
| 03          | 80 | 88,9     | 96         |              |
| 04          | 80 | 88,9     | 96         |              |
| 05          | 80 | 88,9     | 96         |              |
| 06          | 80 | 88,9     | 96         |              |
| 07          | 80 | 88,9     | 96         |              |
| 08          | 80 | 88,9     | 96         |              |
| 09          | 80 | 88,9     | 96         |              |
| 10          | 80 | 88,9     | 96         |              |
| 11          | 15 | 21,3     | 96         |              |
| 12          | 80 | 88,9     | 96         |              |
| 13          | 65 | 76,1     | 96         |              |

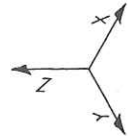
Kyslík

80 OL - 62 003

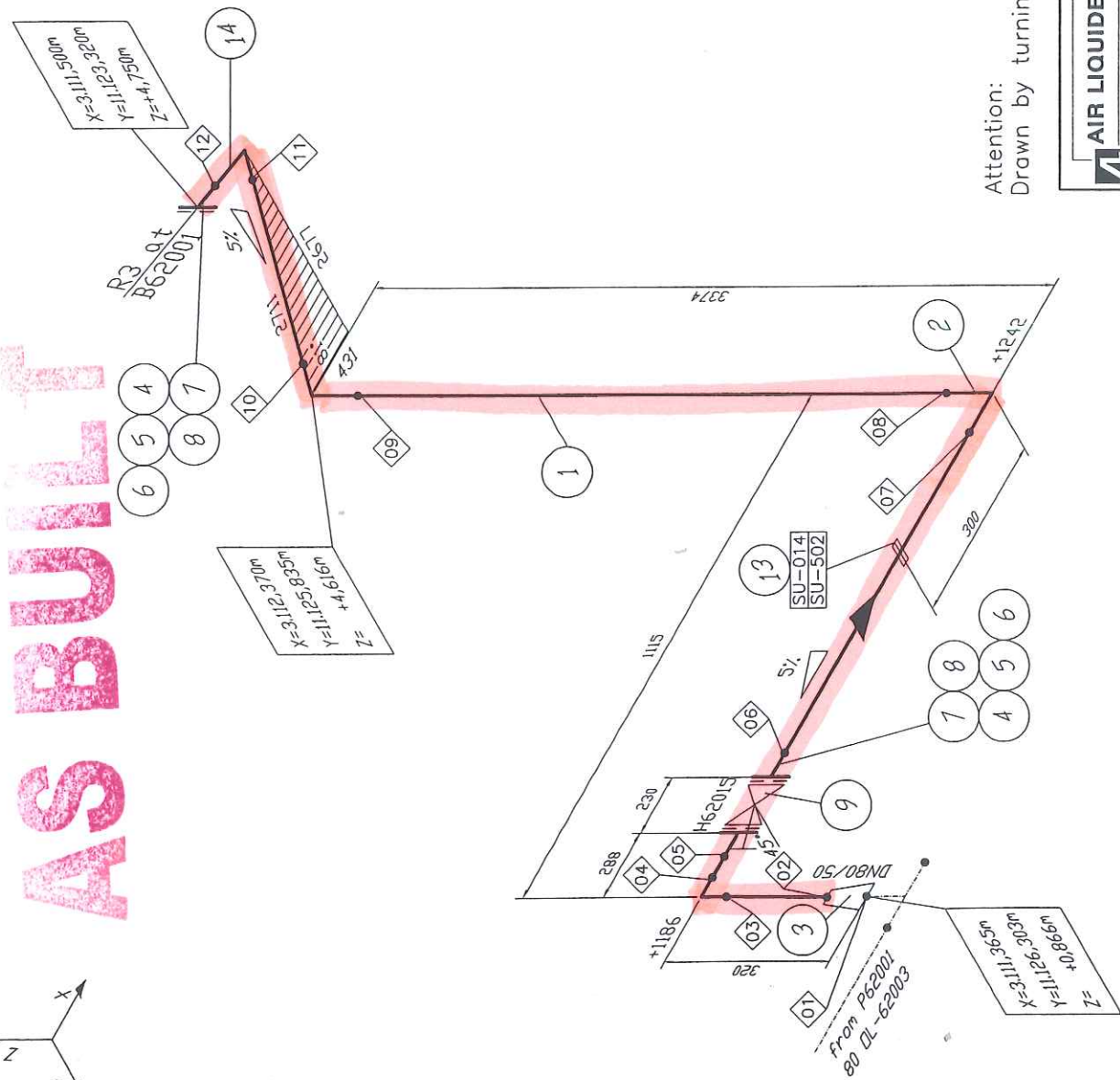
IZOLÁCIA - Rockwool WM 105 ZINC Hr. 80 mm  
pozinkovaný plech - Hr. 0,8 mm

Trasa nie je v zozname (práca navyše)

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**AS BUILT**



*Rec. Peter [Signature]*

**Remarks:**

- Responsibility of the assembling company:
- Situation of mounting seams
  - Situation of pass-lengths
  - Check of measure details and pipe courses on the construction site
  - Situation of the spindle at valve

**Accompanying drawings:**

- 80 OL-62003 ZB10C1C

**Accompanying lists:**

- 50 OL-62004 ZB40C1C

**Pipe standard:**

- AL Standard No.: 50030 (ZB10C1)

Attention:  
 Drawn by turning around 45°

|                    |  |                        |            |            |           |                 |          |               |              |
|--------------------|--|------------------------|------------|------------|-----------|-----------------|----------|---------------|--------------|
| <b>AIR LIQUIDE</b> |  | Date :                 | 02.10.2004 | Name :     | Reid./IES | Checked:        | Hr. Gans | History file: | 79287106.doc |
| Job code: K70101   |  | Reference: ASU Kosice  |            | Scale      |           | Original format |          | DIN A3        |              |
| Replaces: 79_      |  | Title: 50 OL-62004     |            | Sheet: 001 |           | of 001          |          | Sheets        |              |
| Replaced by: 79_   |  | Drawing No.: 792.87106 |            | Rev.       |           | B               |          |               |              |

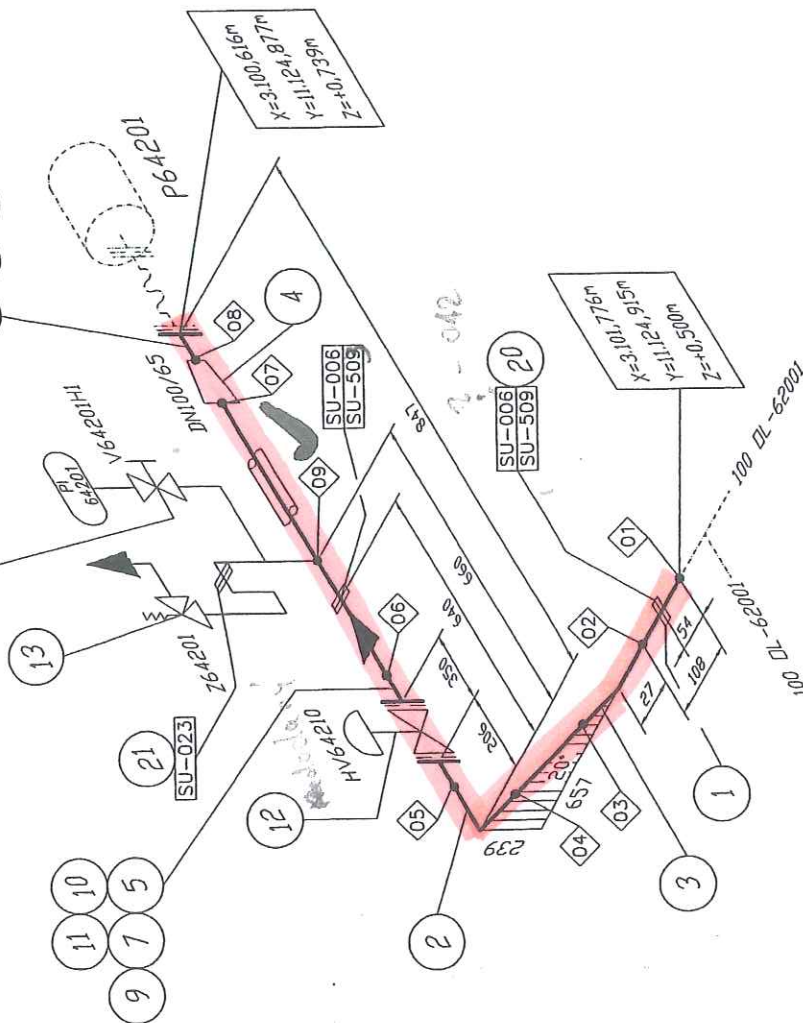
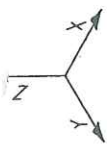
| Welding No. | DN | Diameter | Welder No. | Protocol No. |
|-------------|----|----------|------------|--------------|
| 01          | 80 | 88,9     |            |              |
| 02          | 50 | 60,3     |            |              |
| 03          | 50 | 60,3     |            |              |
| 04          | 50 | 60,3     |            |              |
| 05          | 50 | 60,3     |            |              |
| 06          | 50 | 60,3     |            |              |
| 07          | 50 | 60,3     |            |              |
| 08          | 50 | 60,3     |            |              |
| 09          | 50 | 60,3     |            |              |
| 10          | 50 | 60,3     |            |              |
| 11          | 50 | 60,3     |            |              |
| 12          | 50 | 60,3     |            |              |

Ky slika - OL 62004

izol. Rockwool - VM 105 ZINC HR - 80 mm

pozink. plech - HR - 0,8 mm

**AS BUILT**



| Welding No. | DN  | Diameter | Welder No. | Protocol No. |
|-------------|-----|----------|------------|--------------|
| 01          | 100 | 114,3    | ---        | ---          |
| 02          | 100 | 114,3    | ---        | ---          |
| 03          | 100 | 114,3    | ---        | ---          |
| 04          | 100 | 114,3    | ---        | ---          |
| 05          | 100 | 114,3    | ---        | ---          |
| 06          | 100 | 114,3    | ---        | ---          |
| 07          | 100 | 114,3    | ---        | ---          |
| 08          | 65  | 76,1     | ---        | ---          |
| 09          | 33  | ---      | ---        | ---          |

*Re. 040005*

### Remarks:

Responsibility of the assembling company:

- Situation of mounting seams
- Situation of pass-lengths
- Check of measure details and pipe courses on the construction site
- Situation of the spindle at valve

### Accompanying drawings:

- 100 OL-62001 ZB10C1C

### Accompanying lists:

- Parts list:
- 100 OL-62005-ZB10C1C

### Pipe standard:

- AL Standard No.: 50030 (ZB10C1)

Attention:  
Drawn by turning around 45°

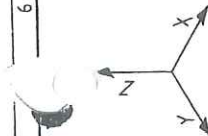
|                       |  |                        |  |                         |  |                            |  |
|-----------------------|--|------------------------|--|-------------------------|--|----------------------------|--|
| Date: 27.10.2004      |  | Name: Reid./IES        |  | Checked: Hr. Gans       |  | History file: 79287106.doc |  |
| Job code: K70101      |  | Scale: ---:---         |  | Original format: DIN A3 |  |                            |  |
| Reference: ASU Kosice |  | Sheet: 001             |  | of 001                  |  | Sheets                     |  |
| Title: 100 OL-62005   |  | Drawing No.: 792.87106 |  | Rev. B                  |  |                            |  |
| Replaces: 79          |  | Replaced by: 79        |  |                         |  |                            |  |

Kyslík

OL - 100 62 005

IZOLÁCIA - Rockwool WM 105 ZINC Hr. 100mm  
pozinkovaný plech - Hr. 0,8mm

5 15 30 45 60 75 90 105 120 135 150



Rec. 1000 177

Responsibility of the assembling company:

- Situation of mounting seams
- Situation of pass-lengths
- Check of measure details and pipe courses on the construction site
- Situation of the spindle at valve

- 80 OL-64101 ZB40C1

- 25 OL-64002 ZB40C1

- AL Standard No.:

50006 (ZB40C1)

|                                                                                                                                  |                             |                              |                                 |                                  |                             |               |                                      |                       |
|----------------------------------------------------------------------------------------------------------------------------------|-----------------------------|------------------------------|---------------------------------|----------------------------------|-----------------------------|---------------|--------------------------------------|-----------------------|
|  <b>AIR LIQUIDE</b><br><small>SAFETY</small> | <b>Date :</b><br>08.11.2004 |                              | <b>Name :</b><br>Reid./IES      |                                  | <b>Checked:</b><br>Hr. Gans |               | <b>History file:</b><br>79287106.doc |                       |
|                                                                                                                                  | <b>Job code:</b><br>K70101  |                              | <b>Reference:</b><br>ASU Kosice |                                  | <b>Scale</b><br>---:---     |               | <b>Original format</b><br>DIN A3     |                       |
| <b>Air Liquide ACS GmbH</b>                                                                                                      |                             | <b>Title:</b><br>25 OL-64002 |                                 | <b>Sheet:</b> 001                |                             | <b>of</b> 001 |                                      | <b>Sheets</b><br>Rev. |
| <b>Replaces:</b><br>79_                                                                                                          |                             | <b>Replaced by:</b><br>79_   |                                 | <b>Drawing No.:</b><br>792.87106 |                             | <b>_A</b>     |                                      |                       |

Kyslík

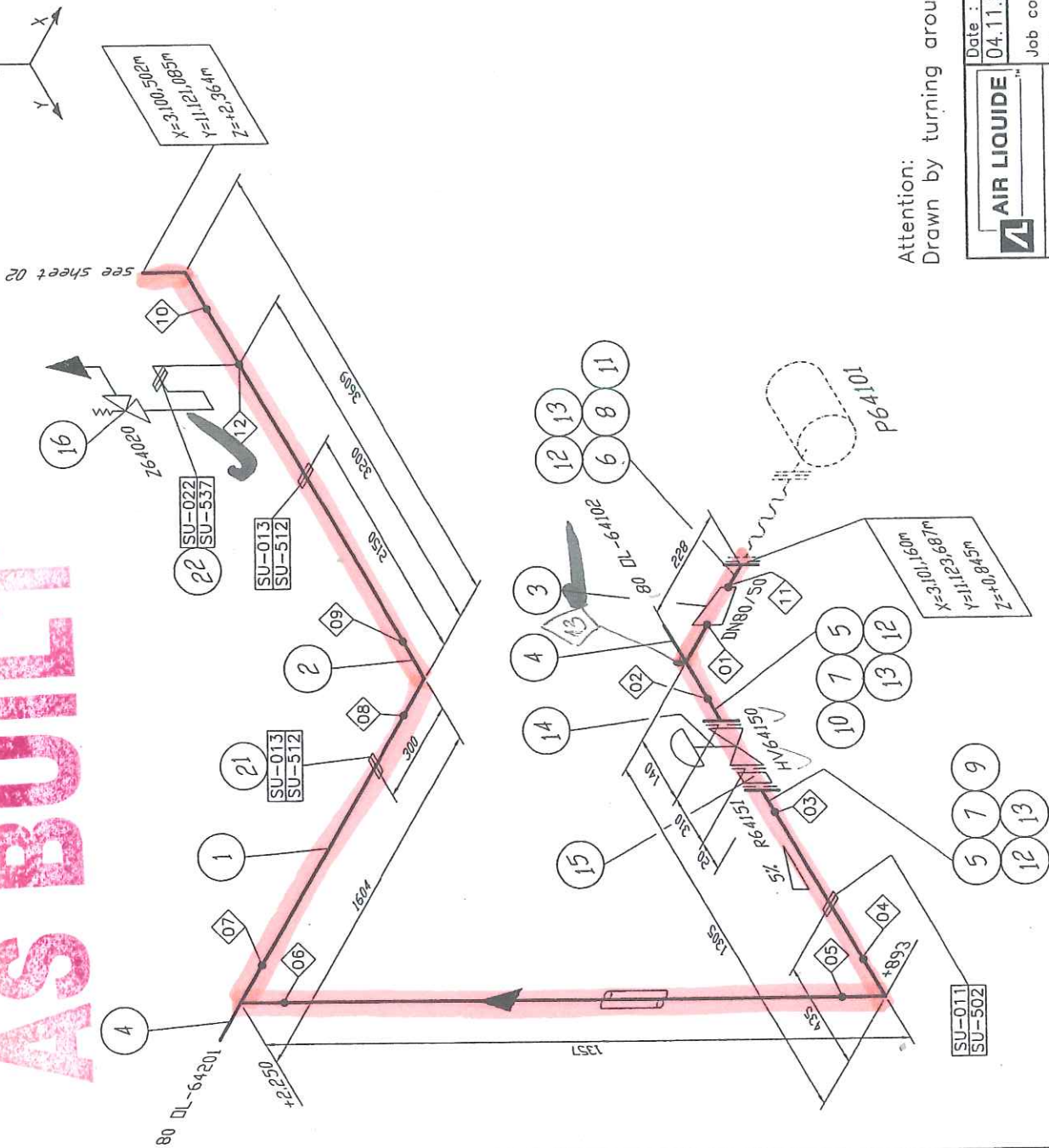
25 OL-64002

IZOLÁCIA - Rockwool WM 105 ZINC Hr. 60mm  
pozinkovaný plech Hr. 0,8mm

Nie je uznané (práca na viac)

# AS BUILT

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| Welding No. | DN | Diameter | Welder No. | Protocol No. |
|-------------|----|----------|------------|--------------|
| 01          | 80 | 88.9     |            |              |
| 02          | 80 | 88.9     |            |              |
| 03          | 80 | 88.9     |            |              |
| 04          | 80 | 88.9     |            |              |
| 05          | 80 | 88.9     |            |              |
| 06          | 80 | 88.9     |            |              |
| 07          | 80 | 88.9     |            |              |
| 08          | 80 | 88.9     |            |              |
| 09          | 80 | 88.9     |            |              |
| 10          | 80 | 88.9     |            |              |
| 11          | 50 | 60.3     |            |              |
| 12          | 22 | 22       |            |              |

13  
Rev. 19.01.05  
97

## Remarks:

Responsibility of the assembling company:

- Situation of mounting seams
- Situation of pass-lengths
- Check of measure details and pipe courses on the construction site
- Situation of the spindle at valve

## Accompanying drawings:

- 80 OL-64101 ZB40C1C Blatt 02
- 80 OL-64102 ZB40C1C
- 80 OL-64201 ZB40C1C

## Accompanying lists:

- 80 OL-64101 ZB40C1C

## Pipe standard:

- AL Standard No.: 50006 (ZB40C1)

Attention:  
Drawn by turning around 45°

| B    | diff. Changes | 16.04.05 | Rb/IES | Gons   |
|------|---------------|----------|--------|--------|
| A    | diff. Changes | 19.01.05 | Rb/IES | Gons   |
| Rev. | Revisions     | Date     | Name   | proved |

|            |             |              |           |                  |          |               |              |
|------------|-------------|--------------|-----------|------------------|----------|---------------|--------------|
| Date:      | 04.11.2004  | Name:        | Reid./IES | Checked:         | Hr. Gons | History file: | 79287106.doc |
| Job code:  | K70101      | Scale:       | ---       | Original format: | DIN A3   |               |              |
| Reference: | ASU Kosice  | Sheet:       | 001       | of 003           | Sheets   |               |              |
| Title:     | 80 OL-64101 | Drawing No.: | 792.87106 | Rev.:            | B        |               |              |



Air Liquide AGS GmbH

Replaces: 79

Replaced by: 79

AS BUILT

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150 135 120 105 90 75 60 45 30 15 5

| Welding<br>No. | DN | Diameter | Welder<br>No. | Protocol<br>No. |
|----------------|----|----------|---------------|-----------------|
| 21             | 80 | 88,9     | ---           | ---             |
| 22             | 80 | 88,9     | ---           | ---             |
| 23             | 80 | 88,9     | ---           | ---             |
| 24             | 22 | 22       | ---           | ---             |

Rec. 09000 K 12

#### Remarks:

Responsibility of the assembling company:

- Situation of mounting seams
- Situation of pass-lengths
- Check of measure details and pipe courses on the construction site
- Situation of the spindle at valve

#### Accompanying drawings:

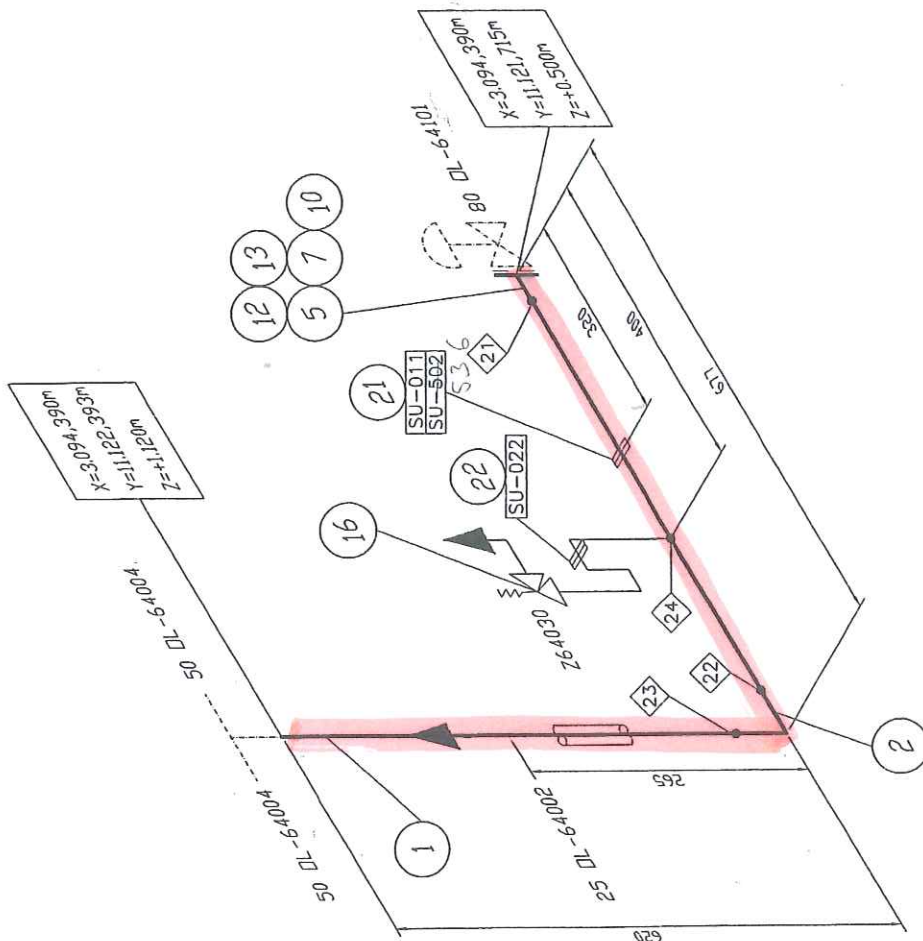
- 80 OL-64101 ZB40C1C Blatt 02
- 50 OL-64004 ZB40C1
- 25 OL-64002 ZB40C1

#### Accompanying lists:

- 80 OL-64101 ZB40C1C

#### Pipe standard:

- AL Standard No.: 50006 (ZB40C1)



|   |               |          |       |      |
|---|---------------|----------|-------|------|
| B | diff. Changes | 16.04.05 | Rb/ES | Gans |
| A | diff. Changes | 19.01.05 | Rb/ES | Gans |

|      |           |      |      |        |
|------|-----------|------|------|--------|
| Rev. | Revisions | Date | Name | proved |
|------|-----------|------|------|--------|

History file:

|            |           |          |               |
|------------|-----------|----------|---------------|
| Date :     | Name :    | Checked: | History file: |
| 04.11.2004 | Reid./IES | Hr. Gans | 79287106.doc  |

|           |       |                 |
|-----------|-------|-----------------|
| Job code: | Scale | Original format |
| K70101    | --:-- | DIN A3          |

|            |        |     |        |
|------------|--------|-----|--------|
| Reference: | Sheet: | of  | Sheets |
| ASU Kosice | 003    | 003 | Rev.   |

|             |              |      |
|-------------|--------------|------|
| Title:      | Drawing No.: | Rev. |
| 80 OL-64101 | 792,87106    | B    |

1

2

3

4

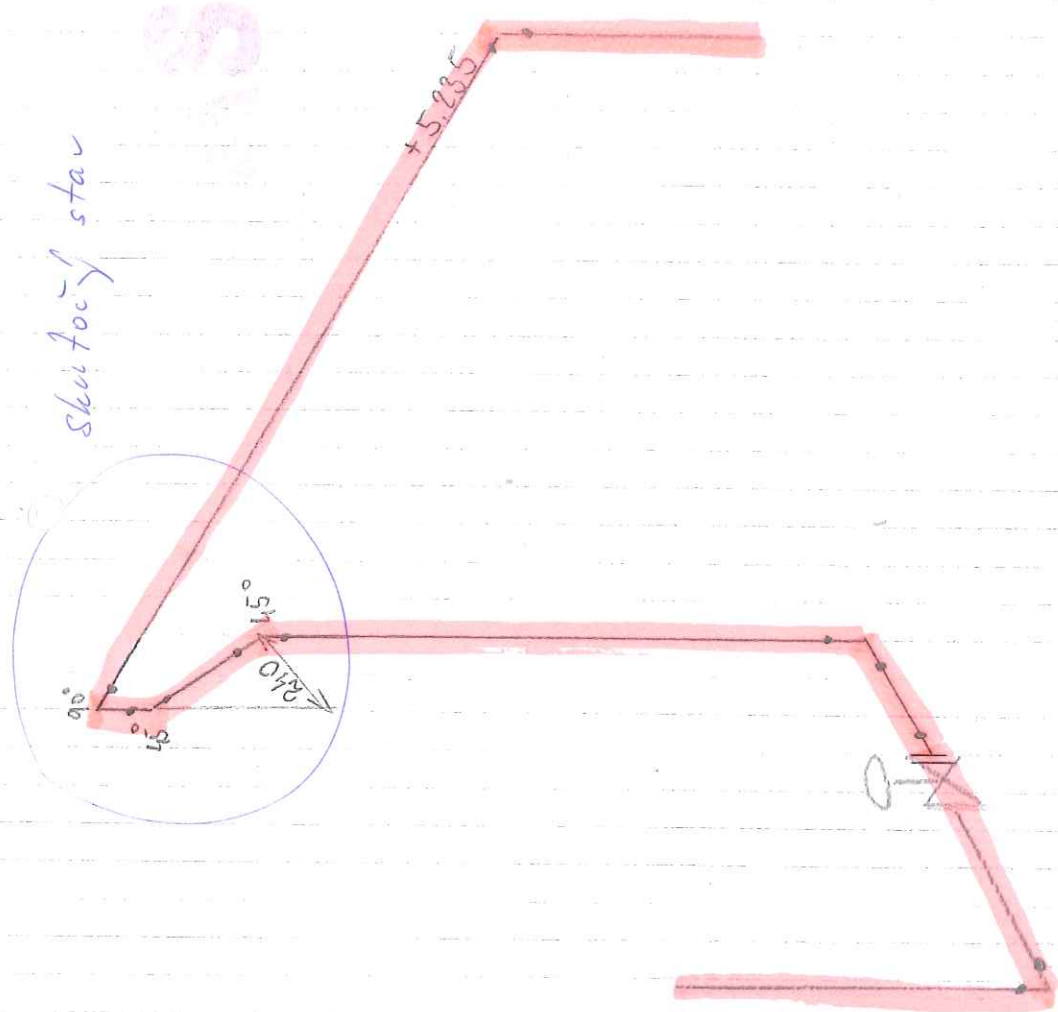
5

6

7

8

1-04-19 70 08

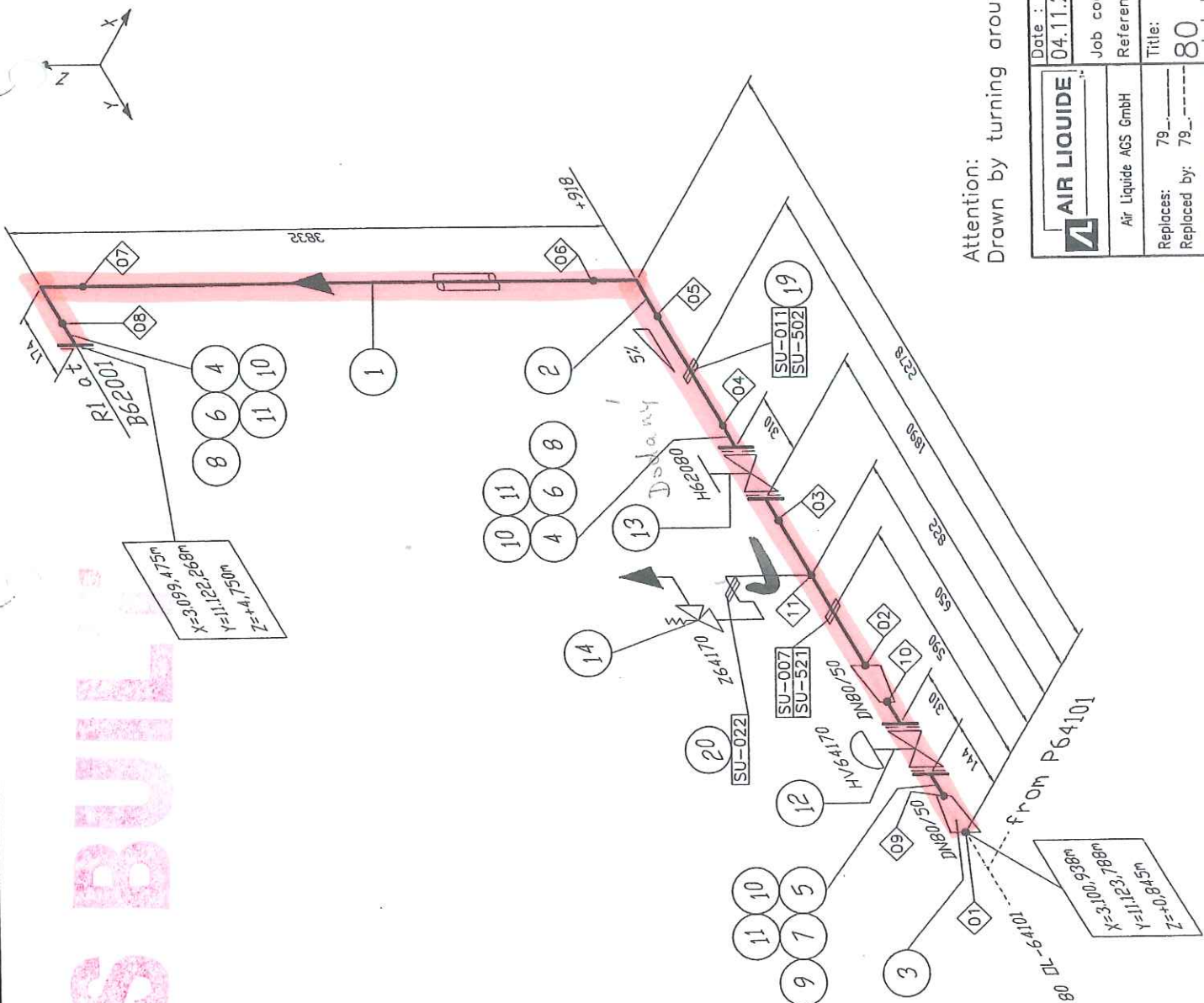


Kyslik 80 OL-64 101

IZOLĀCIJA ~~—~~ ROCKWOOL WM 105 ZINC Hr. 100 mm  
pozinkovāj' plech Hr. 0,8 mm

# ASBUL

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| Welding No. | DN | Diameter | Welder No. | Protocol No. |
|-------------|----|----------|------------|--------------|
| 01          | 80 | 88.9     |            |              |
| 02          | 80 | 88.9     |            |              |
| 03          | 80 | 88.9     |            |              |
| 04          | 80 | 88.9     |            |              |
| 05          | 80 | 88.9     |            |              |
| 06          | 80 | 88.9     |            |              |
| 07          | 80 | 88.9     |            |              |
| 08          | 80 | 88.9     |            |              |
| 09          | 50 | 60.3     |            |              |
| 10          | 50 | 60.3     |            |              |
| 11          | 22 |          |            |              |

*Re. 09007721*

**Remarks:**  
 Responsibility of the assembling company:  
 - Situation of mounting seams  
 - Situation of pass-lengths  
 - Check of measure details and pipe courses on the construction site  
 - Situation of the spindle at valve

**Accompanying drawings:**  
 - 80 OL-64101 ZB40C1C

**Accompanying lists:**  
 - 80 OL-64102 ZB40C1C

**Pipe standard:**  
 - AL Standard No.: 50006 (ZB40C1)

Attention:  
 Drawn by turning around 45°

|                      |        |            |             |              |           |                 |              |
|----------------------|--------|------------|-------------|--------------|-----------|-----------------|--------------|
| <b>AIR LIQUIDE</b>   |        | Date :     | 04.11.2004  | Name :       | Reid./IES | Hr. Gans        | 79287106.doc |
| Air Liquide AGS GmbH |        | Job code:  | K70101      | Scale        | ---       | Original format | DIN A3       |
| Replaces:            | 79---- | Reference: | ASU Kosice  | Sheet:       | 001       | of 001          | Sheets       |
| Replaced by:         | 79---- | Title:     | 80 OL-64102 | Drawing No.: | 792.87106 | Rev.            | B            |

| Rev. | Revisions     | Date     | Name    | proved |
|------|---------------|----------|---------|--------|
| B    | diff. Changes | 16.04.05 | Rb./IES | Gans   |
| A    | diff. Changes | 18.01.05 | Rb./IES | Gans   |

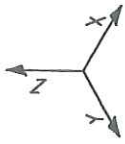
| Checked: | History file: |
|----------|---------------|
|          | 79287106.doc  |

Ry s lik

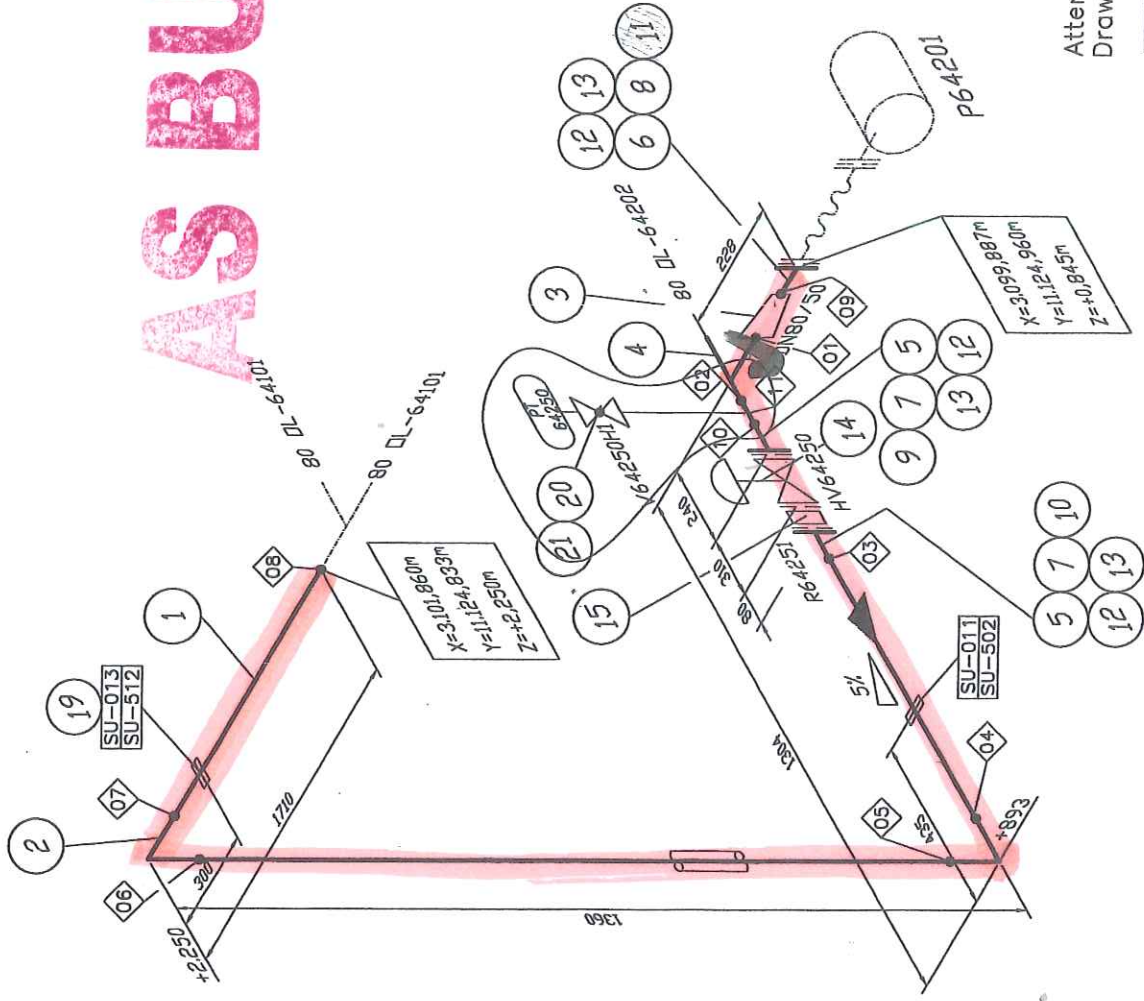
80 OL - 64 102

IZOLÁCIA - ROCKWOOL WM 105 ZINC Hr. 100 mm  
pozinkovaný plech Hr. 0,8 mm

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# AS BUILT



| Welding No. | DN | Diameter | Welder No. | Protocol No. |
|-------------|----|----------|------------|--------------|
| 01          | 80 | 88.9     |            |              |
| 02          | 80 | 88.9     |            |              |
| 03          | 80 | 88.9     |            |              |
| 04          | 80 | 88.9     |            |              |
| 05          | 80 | 88.9     |            |              |
| 06          | 80 | 88.9     |            |              |
| 07          | 80 | 88.9     |            |              |
| 08          | 80 | 88.9     |            |              |
| 09          | 50 | 60.3     |            |              |
| 10          | 80 | 88.9     |            |              |
| 11          | 25 | 33.7     | QZ         |              |

### Remarks:

- Responsibility of the assembling company:
- Situation of mounting seams
  - Situation of pass-lengths
  - Check of measure details and pipe courses on the construction site
  - Situation of the spindle at valve

### Accompanying drawings:

- 80 OL-64101 ZB40C1C
- 80 OL-64202 ZB40C1C

### Accompanying lists:

- 80 OL-64201 ZB40C1C

### Pipe standard:

- AL Standard No.: 50006 (ZB40C1)

Attention:  
Drawn by turning around 45°

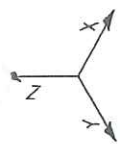
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|----------------------|--|--------------|-------------|---------------|---------------------------|
| <b>AIR LIQUIDE</b>   |  | Date :       | 03.11.2004  | Name :        | Reid./IES                 |
| Air Liquide AGS GmbH |  | Job code:    | K70101      | Checked:      | Hr. Gons                  |
| Replaces: 79         |  | Reference:   | ASU Kosice  | History file: | 79287106.doc              |
| Replaced by: 79      |  | Title:       | 80 OL-64201 | Scale         | Original format<br>DIN A3 |
|                      |  | Sheet:       | 001         | of 001        | Sheets                    |
|                      |  | Drawing No.: | 792.87106   | Rev.          | B                         |

| Rev. | Revisions     | Date     | Name     | proved |
|------|---------------|----------|----------|--------|
| A    | diff. Changes | 18.01.05 | Rb/IES   | Gons   |
| B    | diverse       | 06.06.05 | WIP/Red. |        |

Kyslik 80 OL-64201

IZOLÁCIA  Rockwool WM 105 ZINC Hr. 100 mm  
pozinkovaný plech hr. 0,8 mm

AS BULL



| Welding No. | DN | Diameter | Welder No. | Protocol No. |
|-------------|----|----------|------------|--------------|
| 01          | 80 | 88.9     | ---        | ---          |
| 02          | 80 | 88.9     | ---        | ---          |
| 03          | 80 | 88.9     | ---        | ---          |
| 04          | 80 | 88.9     | ---        | ---          |
| 05          | 80 | 88.9     | ---        | ---          |
| 06          | 80 | 88.9     | ---        | ---          |
| 07          | 80 | 88.9     | ---        | ---          |
| 08          | 80 | 88.9     | ---        | ---          |
| 09          | 80 | 88.9     | ---        | ---          |
| 10          | 80 | 88.9     | ---        | ---          |
| 11          | 50 | 60.3     | ---        | ---          |
| 12          | 50 | 60.3     | ---        | ---          |
| 13          | 22 | ---      | ---        | ---          |

*Rec. 88001/1*

#### Remarks:

Responsibility of the assembling company:

- Situation of mounting seams
- Situation of pass-lengths
- Check of measure details and pipe courses on the construction site
- Situation of the spindle at valve

#### Accompanying drawings:

- 80 OL-64201 ZB40C1C

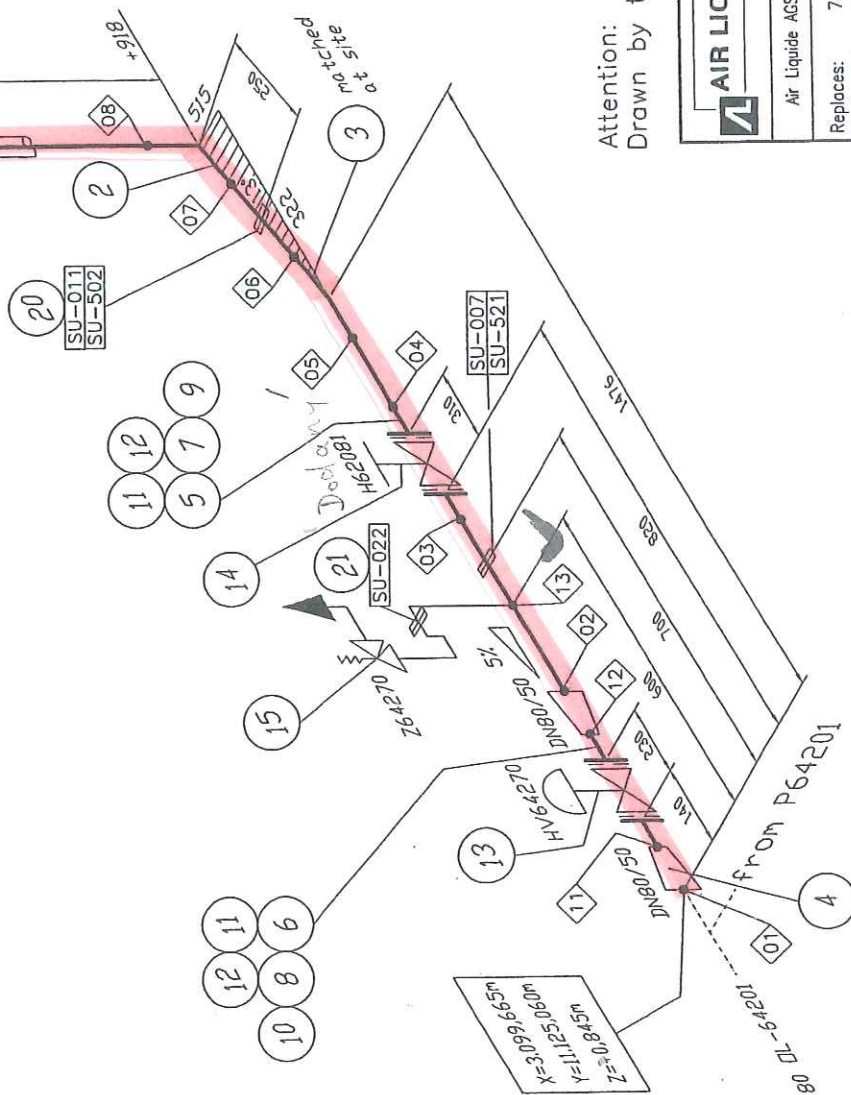
#### Accompanying lists:

- 80 OL-64202 ZB40C1C

#### Pipe standard:

- AL Standard No.: 50006 (ZB40C1)

Attention:  
Drawn by turning around 45°

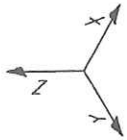


| Rev | Revisions     | Date     | Name   | proved |
|-----|---------------|----------|--------|--------|
| B   | diff. Changes | 16.04.05 | Rb/IES | Gans   |
| A   | diff. Changes | 18.01.05 | Rb/IES | Gans   |

|                      |            |                        |                          |               |                 |
|----------------------|------------|------------------------|--------------------------|---------------|-----------------|
| Date :               | 04.11.2004 | Name :                 | Reid./IES                | History file: | 79287106.doc    |
| AIR LIQUIDE          |            | Job code: K70101       |                          | Scale         | Original format |
| Air Liquide AGS GmbH |            | Reference: ASU Kosice  |                          | ---           | DIN A3          |
| Replaces:            | 79_        | Title:                 | Sheet: 001 of 001 Sheets |               |                 |
| Replaced by:         | 79_        | Drawing No.: 792.87106 |                          | Rev. B        |                 |

Kyslík 80 OL - 64 202

IZOLÁCIA  Rockwool WM 105 ZINC Hr: 100mm  
pozinkovaný plech Hr. 0,8 mm



"HOLD"

Dec. 20. 1860. H. H.

Responsibility of the assembling company:

- Accompanying drawings:

- Accompanying lists:

- Pipe standard:

- AL Standard No.:  
50030 (ZB10C1)

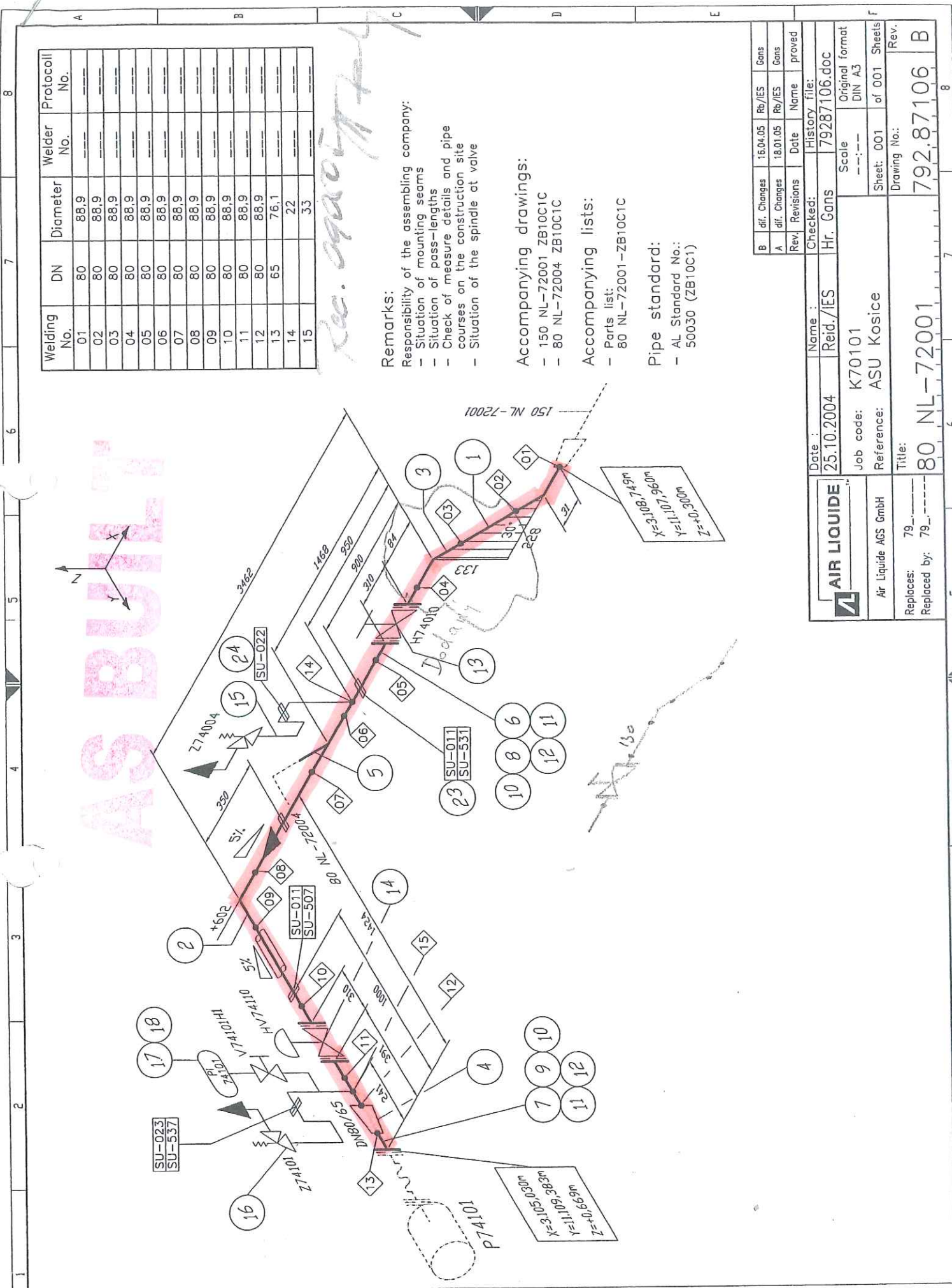
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|---------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------|------------------------|------------|-------------------|----------------------------|-------------|
|  <b>AIR LIQUIDE</b><br>Air Liquide AGS GmbH | Date : 25.10.2004<br>Name :               |                        | Checked:   |                   | History file: 79287106.doc |             |
|                                                                                                                                 | Job code: K70101<br>Reference: ASU Kosice |                        | Revid./IES |                   | Hr. Gans                   |             |
| Title: 150 NL-72001                                                                                                             |                                           | Drawing No.: 792.87106 |            | Sheet: 001 of 001 |                            | Sheets Rev. |
| Replaces: 79_____<br>Replaced by: 79_____<br>7                                                                                  |                                           | 6                      |            | 7                 |                            | 8           |

Dusík 150 NL 72001

izolácia — Rockwool WM 105 ZINC Hr. 100mm  
pozink. plech Hr. 0,8mm

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150  
135  
120  
105  
90  
75  
60  
45  
30  
15  
5



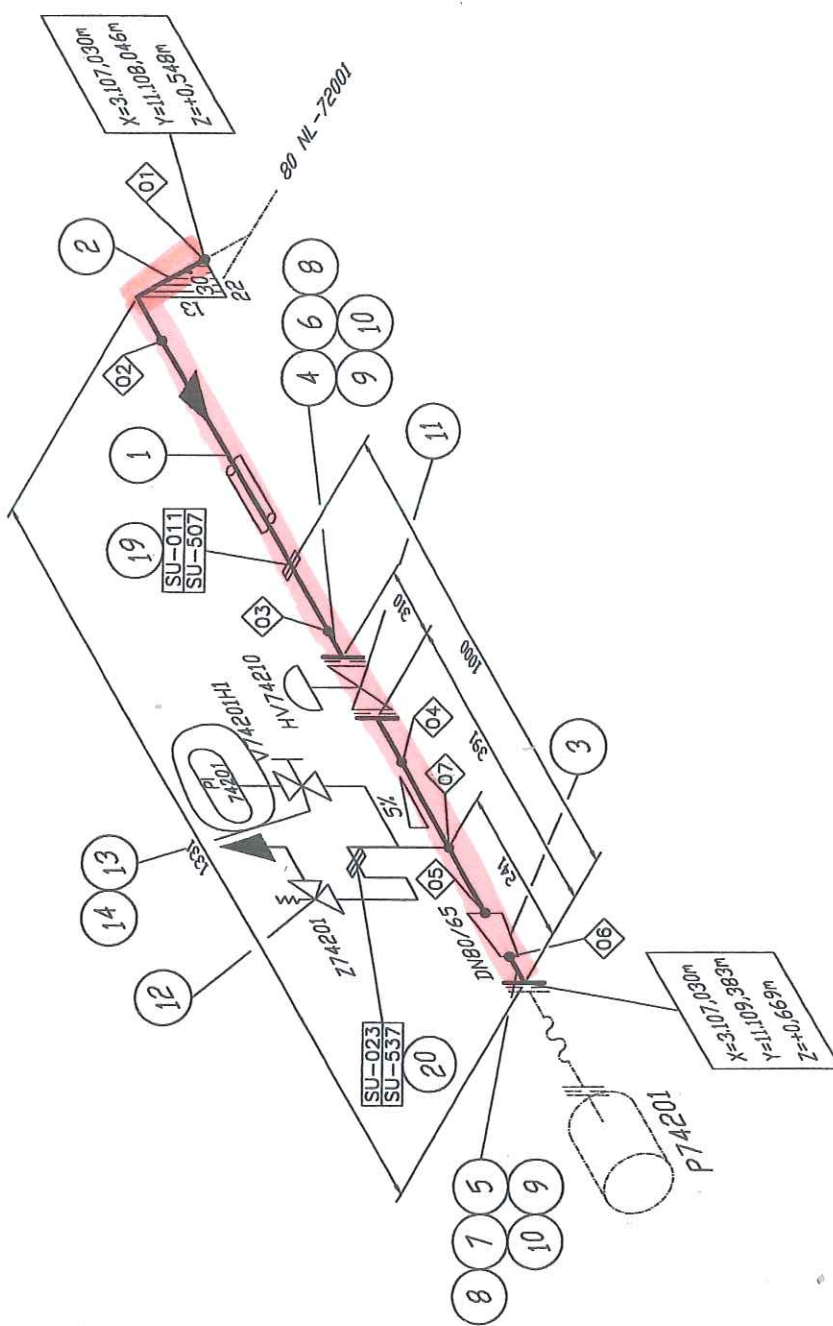
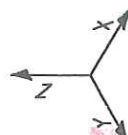
|                   |  |                       |  |                               |  |                            |  |
|-------------------|--|-----------------------|--|-------------------------------|--|----------------------------|--|
| Date : 25.10.2004 |  | Name : Reid./IES      |  | Checked: Hr. Gans             |  | History file: 79287106.doc |  |
| Job code: K70101  |  | Reference: ASU Kosice |  | Scale: Original format DIN A3 |  | Sheet: 001 of 001 Sheets   |  |
| Replaces: 79      |  | Replaced by: 79       |  | Drawing No.: 792.87106        |  | Rev. B                     |  |

| B    | diff. Changes | 16.04.05 | Rb/IES | Gans   |
|------|---------------|----------|--------|--------|
| A    | diff. Changes | 18.01.05 | Rb/IES | Gans   |
| Rev. | Revisions     | Date     | Name   | proved |

Dusík 80 NL - 72 001

izolácia — Rockwool WM 105 ZINC Hr. 100mm  
pozink. plech hr. 0,8mm

AS BUILT



| Welding No. | DN | Diameter | Welder No. | Protocol No. |
|-------------|----|----------|------------|--------------|
| 01          | 80 | 88.9     |            |              |
| 02          | 80 | 88.9     |            |              |
| 03          | 80 | 88.9     |            |              |
| 04          | 80 | 88.9     |            |              |
| 05          | 80 | 88.9     |            |              |
| 06          | 65 | 76.1     |            |              |
| 07          | 33 |          |            |              |

Remarks:

- Responsibility of the assembling company:
- Situation of mounting seams
- Situation of pass-lengths
- Check of measure details and pipe courses on the construction site
- Situation of the spindle at valve

Accompanying drawings:

- 80 NL-72001 ZB10C1C

Accompanying lists:

- Parts list:
- 80 NL-72004-ZB10C1C

Pipe standard:

- AL Standard No.: 50030 (ZB10C1)

|      |               |          |          |        |
|------|---------------|----------|----------|--------|
| C    | diverge       | 07.06.05 | WIP/Red. |        |
| B    | diff. Changes | 16.04.05 | Rb/IES   | Gans   |
| Rev. | Revisions     | Date     | Name     | proved |

|                       |           |                        |
|-----------------------|-----------|------------------------|
| Date :                | Name :    | History file:          |
| 25.10.2004            | Reid./IES | 79287106.doc           |
| Job code: K70101      |           | Scale: Original format |
| Reference: ASU Kosice |           | DIN A3                 |
| Title:                |           | Sheet: 001 of 001      |
| Replaces: 79-...      |           | Drawing No.: 792.87106 |
| Replaced by: 79-...   |           | Rev. C                 |

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Dusík 80 NL - 72004

120L ěia - Rockwool WM 105 ZINC Hr. 100mm  
pozink. plech Hr. 0,8mm

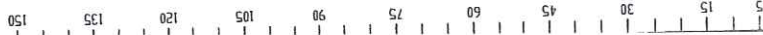
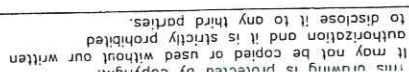
AS BUILT



100-24 7N 001-42-101

Dusík 100 NL 72 101

izol. - Rockwool WIM 105 ZINC Hr. 100 mm  
pozink. plech - Hr. 0,8 mm



Rec. 2200-76

Responsibility of the assembling company:

- Situation of mounting seams
- Situation of pass-lengths
- Check of measure details and pipe courses on the construction site
- Situation of the spindle at valve

- 50 N-72103 ZB10C1C

- Parts list:

- 80 NL-72102-ZB10C1C

- AL Standard No.:

- AL Standard No.:  
50030 (ZB10C1)

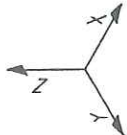
|          |               |
|----------|---------------|
| Checked: | History file: |
|----------|---------------|

Replaces: 79\_-----  
Title: \_\_\_\_\_

Dusík 80 NL - 72 102

izol.  Rockwool WM 105 ZINC Hr. 80 mm  
pozink. plech - Hr. 0,8 mm

Nie je v zozname (práca navyše)



acc. 09080-114

Remarks:

- Responsibility of the assembling company:
- Situation of mounting seams
- Situation of pass-lengths
- Check of measure details and pipe courses on the construction site
- Situation of the spindle at valve

Accompanying drawings:

Accompanying lists:

Pipe standard:

|                                                                                                         |  |            |  |            |  |              |  |                 |  |
|---------------------------------------------------------------------------------------------------------|--|------------|--|------------|--|--------------|--|-----------------|--|
|  <b>AIR LIQUIDE</b> |  | Date :     |  | Name :     |  | Checked:     |  | History file:   |  |
|                                                                                                         |  | 27.10.2004 |  | Reid./IES  |  | Hr. Gans     |  | 79287106.doc    |  |
| Air Liquide ASG GmbH                                                                                    |  | Job code:  |  | K70101     |  | Scale        |  | Original format |  |
|                                                                                                         |  | Reference: |  | ASU Kosice |  | ---:---      |  | DIN A3          |  |
| Replaces: 79_____                                                                                       |  | Title:     |  | 50 N-72103 |  | Sheet: 001   |  | of 001 Sheets   |  |
| Replaced by: 79_____                                                                                    |  |            |  |            |  | Drawing No.: |  | Rev.            |  |
|                                                                                                         |  |            |  |            |  | 792.87106    |  | _A              |  |

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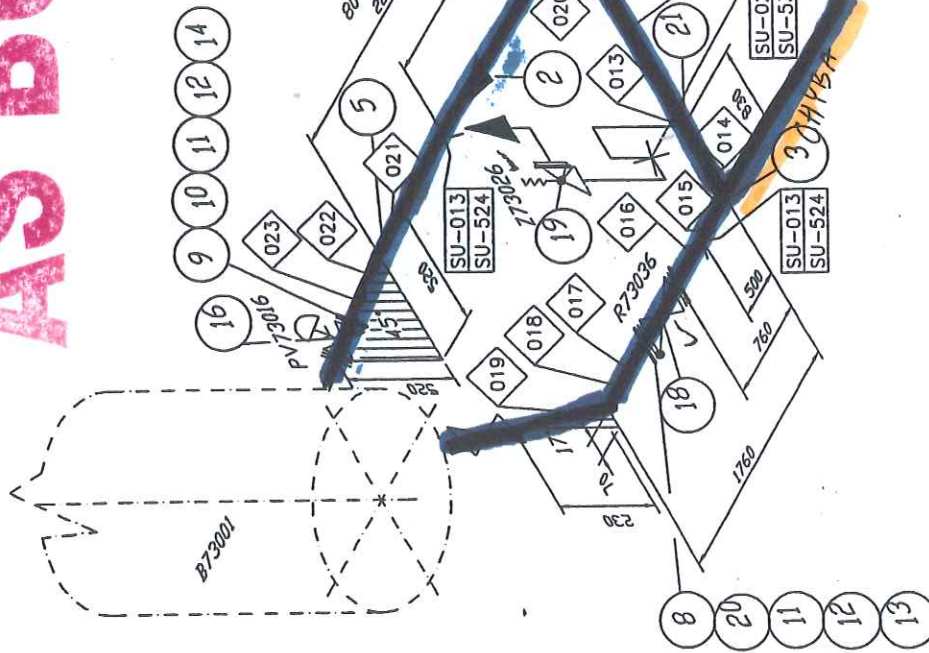
Dusík 50 N - 72 103

izolácia — Rockwool WM 105 ZINC Hr. 80 mm  
pozink. plech - Hr. 0,8 mm

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**AS BUILT**

Re. 09001/177



### Remarks:

- Responsibility of the assembling company:
- Situation of mounting seams
- Situation of pass-lengths
- Check of measure details and pipe courses on the construction site
- Situation of the spindle at valve

### Accompanying drawings:

- 80 NL-73001
- 50 NL-73001
- 50 NL-73007
- 80 NL-73101
- 80 NL-73201

### Accompanying lists:

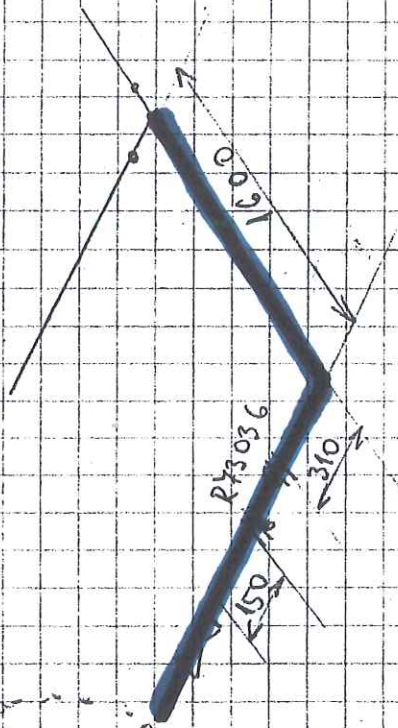
- Parts list:
- 80 NL 73001

| Welding No. | DN | φ    | Welder No. | Protocol No. |
|-------------|----|------|------------|--------------|
| 001         | 80 | 88.9 |            |              |
| 002         | 80 | 88.9 |            |              |
| 003         | 80 | 88.9 |            |              |
| 004         | 80 | 88.9 |            |              |
| 005         | 80 | 88.9 |            |              |
| 006         | 80 | 88.9 |            |              |
| 007         | 80 | 88.9 |            |              |
| 008         | 80 | 88.9 |            |              |
| 009         | 80 | 88.9 |            |              |
| 010         | 80 | 88.9 |            |              |
| 011         | 80 | 88.9 |            |              |
| 012         | 80 | 88.9 |            |              |
| 013         | 80 | 88.9 |            |              |
| 014         | 80 | 88.9 |            |              |
| 015         | 80 | 88.9 |            |              |
| 016         | 80 | 88.9 |            |              |
| 017         | 80 | 88.9 |            |              |
| 018         | 80 | 88.9 |            |              |
| 019         | 80 | 88.9 |            |              |
| 020         | 50 | 60.3 |            |              |
| 021         | 50 | 60.3 |            |              |
| 022         | 50 | 60.3 |            |              |
| 023         | 50 | 60.3 |            |              |

|                                            |  |                                                                    |  |
|--------------------------------------------|--|--------------------------------------------------------------------|--|
| <b>AIR LIQUIDE</b><br>Air Liquide AGS GmbH |  | Date : 28.10.2004<br>Name : WIP/Rad.                               |  |
| Job code: K70101<br>Reference: ASU Kosice  |  | Checked: 79287106.doc<br>Scale: ---:---<br>Original format: DIN A3 |  |
| Replaces: 79...<br>Replaced by: 79...      |  | Sheet: 002 of 002 Sheets<br>Drawing No.: 792.87106 D               |  |

AS BUILT

B43001

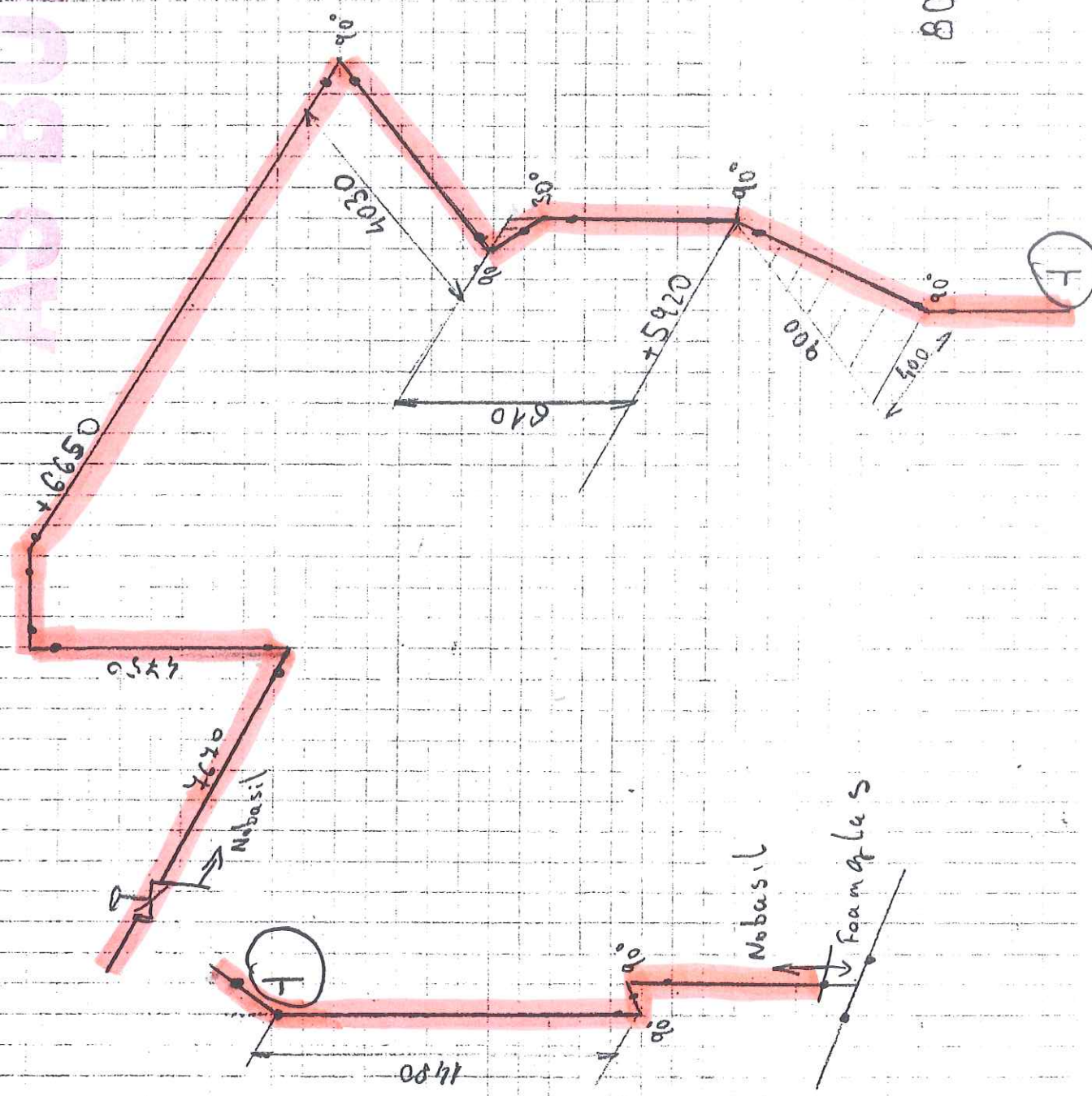


80 NL 43001

Sheet 2

Foamglas

80 NL 7500-1



DUSÍK-80 NL 73001

(1. vrstva)

izolácia  Foamglas - hr. 70 mm

pozink. plech - hr. 0,8 mm

Druhá vrstvu izolácie nebolo možné namontovať v požadovanej hrúbke projektu.

Trasa nespadá pod garanciu.

Sheet-2

Dusík - 80 NL 73001

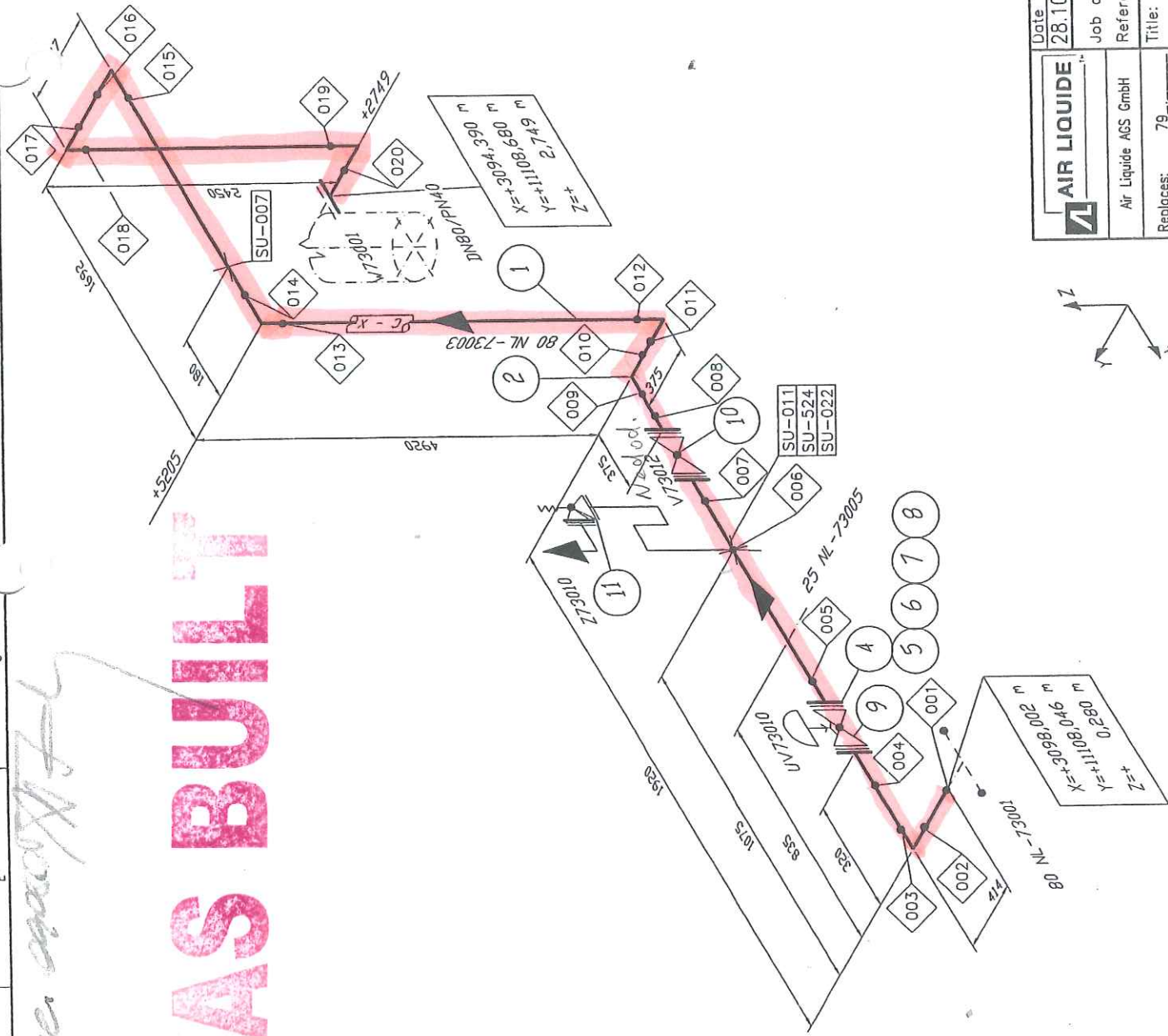
izolácia  Rockwool WM 105 ZINC HR - 80 mm

pozink. plech Hr. 0,8 mm

Sheet-1

See attached file

AS BUILT



### Remarks:

- Responsibility of the assembling company:
- Situation of mounting seams
  - Situation of pass-lengths
  - Check of measure details and pipe courses on the construction site
  - Situation of the spindle at valve

### Accompanying drawings:

- 80 NL-73001
- 25 NL-73005

### Accompanying lists:

- Parts list:  
80 NL-73003

### Pipe Standard:

- AL Standard No.:  
50026 / ZB25C1

| Welding No. | DN | Ø    | Weider No. | Protocol No. |
|-------------|----|------|------------|--------------|
| 001         | 80 | 88.9 |            |              |
| 002         | 80 | 88.9 |            |              |
| 003         | 80 | 88.9 |            |              |
| 004         | 80 | 88.9 |            |              |
| 005         | 80 | 88.9 |            |              |
| 006         | 80 | 88.9 |            |              |
| 007         | 80 | 88.9 |            |              |
| 008         | 80 | 88.9 |            |              |
| 009         | 80 | 88.9 |            |              |
| 010         | 80 | 88.9 |            |              |
| 011         | 80 | 88.9 |            |              |
| 012         | 80 | 88.9 |            |              |
| 013         | 80 | 88.9 |            |              |
| 014         | 80 | 88.9 |            |              |
| 015         | 80 | 88.9 |            |              |
| 016         | 80 | 88.9 |            |              |
| 017         | 80 | 88.9 |            |              |
| 018         | 80 | 88.9 |            |              |
| 019         | 80 | 88.9 |            |              |
| 020         | 80 | 88.9 |            |              |

|                       |                         |
|-----------------------|-------------------------|
| <b>AIR LIQUIDE</b>    |                         |
| Date : 28.10.2004     | Name : WIP/Rad.         |
| Job code: K70101      | Scale: ---              |
| Reference: ASU Kosice | Original format: DIN A3 |
| Title: 80 NL 73003    | Sheet: 001 of 001       |
| Replaces: 79.---      | Rev.:                   |
| Replaced by: 79.---   | Drawing No.: 792.87106  |

| B    | diff. Changes | 16.04.05 | Rb/IES | Gans   |
|------|---------------|----------|--------|--------|
| A    | Revisions     | Date     | Name   | proved |
| Rev. | Revisions     | Date     | Name   | proved |

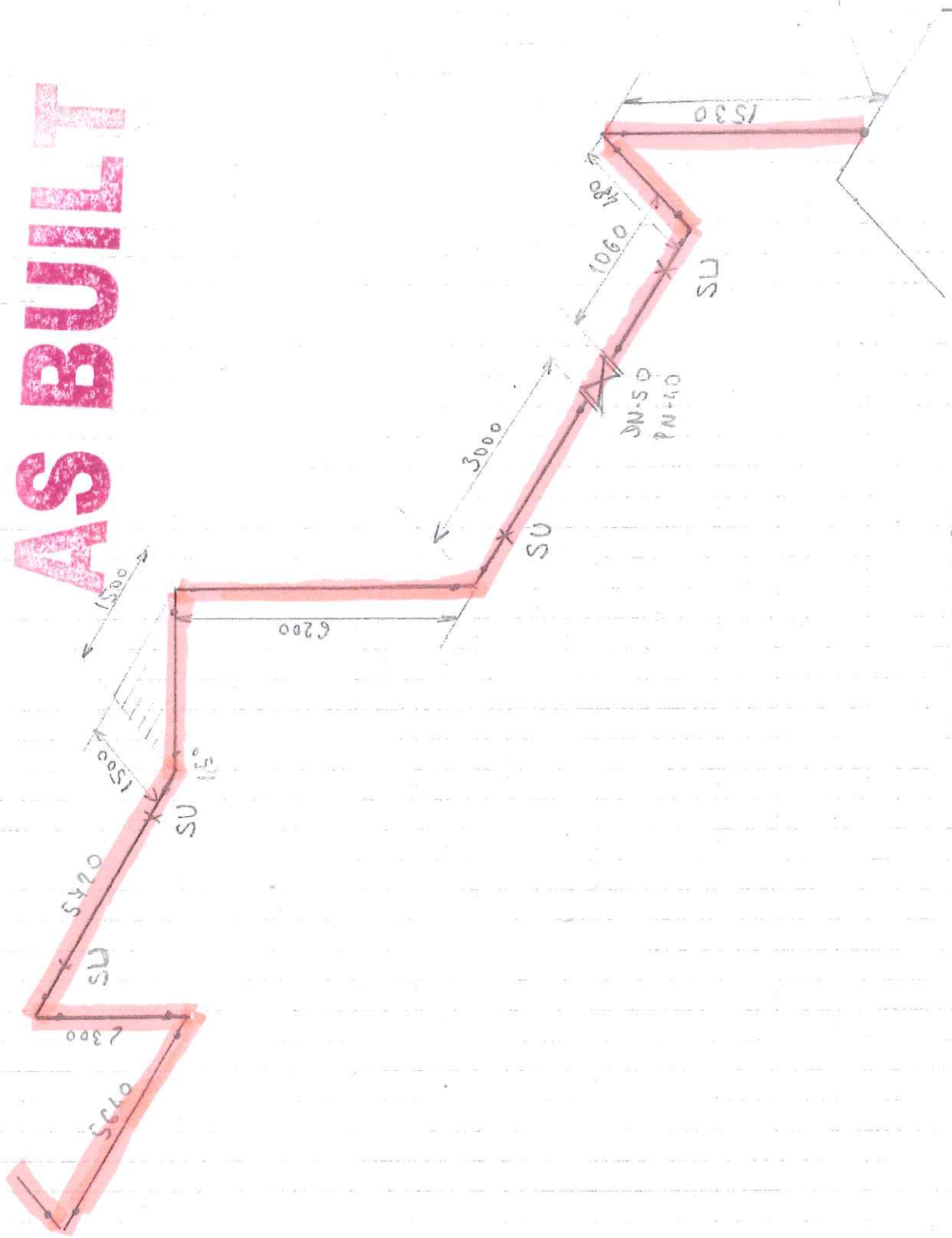
History file: 79287106.doc

Nobasil

Dusik 80NL 73003

izol. - Rockwool WM 105 ZINC Hr. 100 mm  
pozink. plech - Hr. 0,8 mm

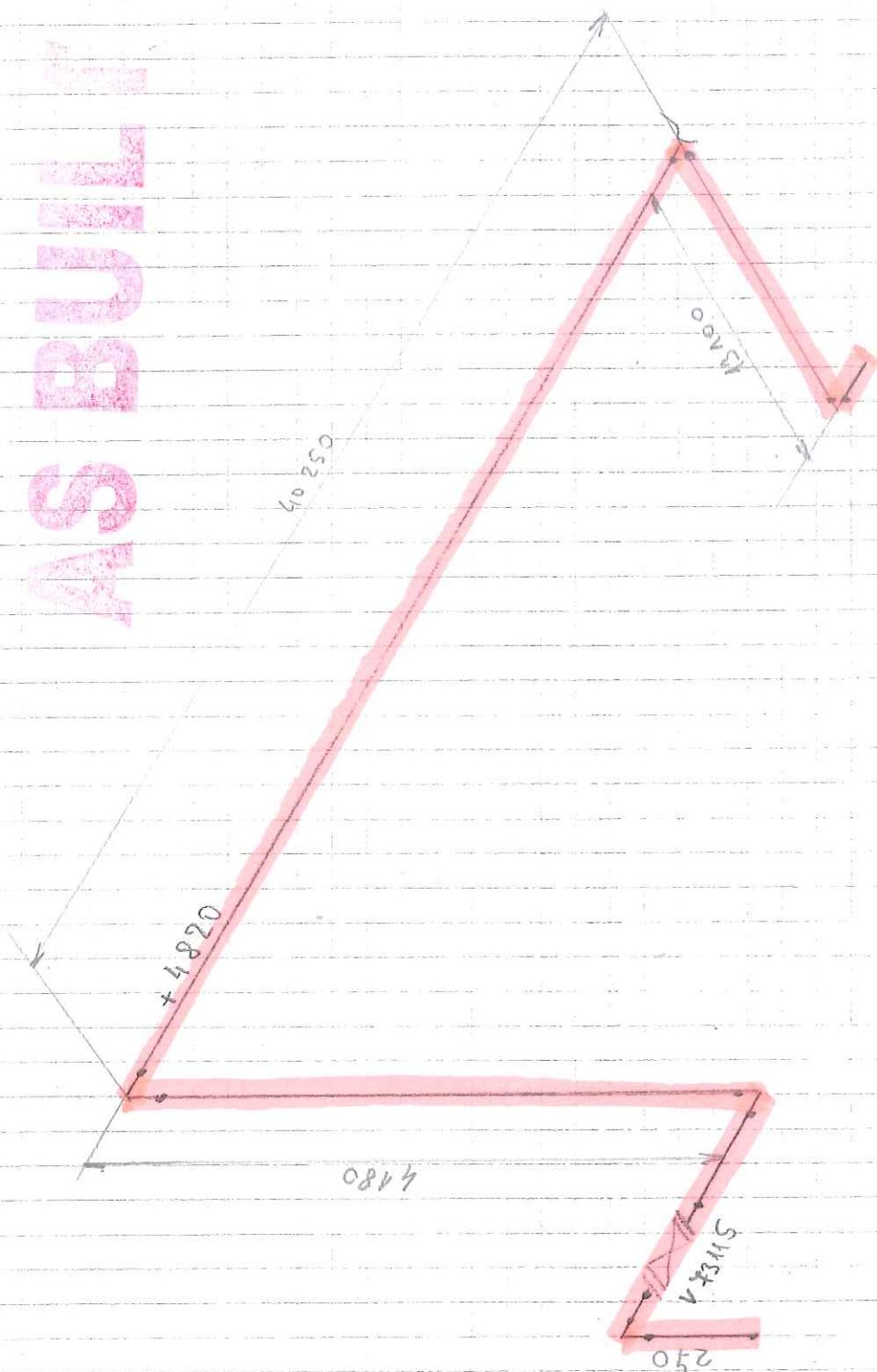
A hand-drawn diagram of a Z-shaped path, shaded in pink. The path consists of three main segments: a bottom horizontal segment, a middle vertical segment, and a top horizontal segment. The bottom horizontal segment is labeled '5010' and has a dimension of '2300' indicated below it. The middle vertical segment is labeled '5420' and has a dimension of '1500' indicated to its right. The top horizontal segment is labeled '5420' and has a dimension of '1500' indicated above it. The path is labeled 'SU' at both the bottom and top ends. A dashed line with arrows at both ends is drawn parallel to the middle vertical segment, with a dimension of '1500' indicated between the path and the dashed line. A small '50' is written near the top right corner of the path.



50 NL 73004

24

AS BUILT



50 NL 73 00 Y  
Sheet 1

Dusík - 50 NL 73 007

izol. — Rock wool WM 105 ZINC HR: 80 mm

pozink. plech - HR: 0,8 mm

práca naviac

B-4300-1

BU 2



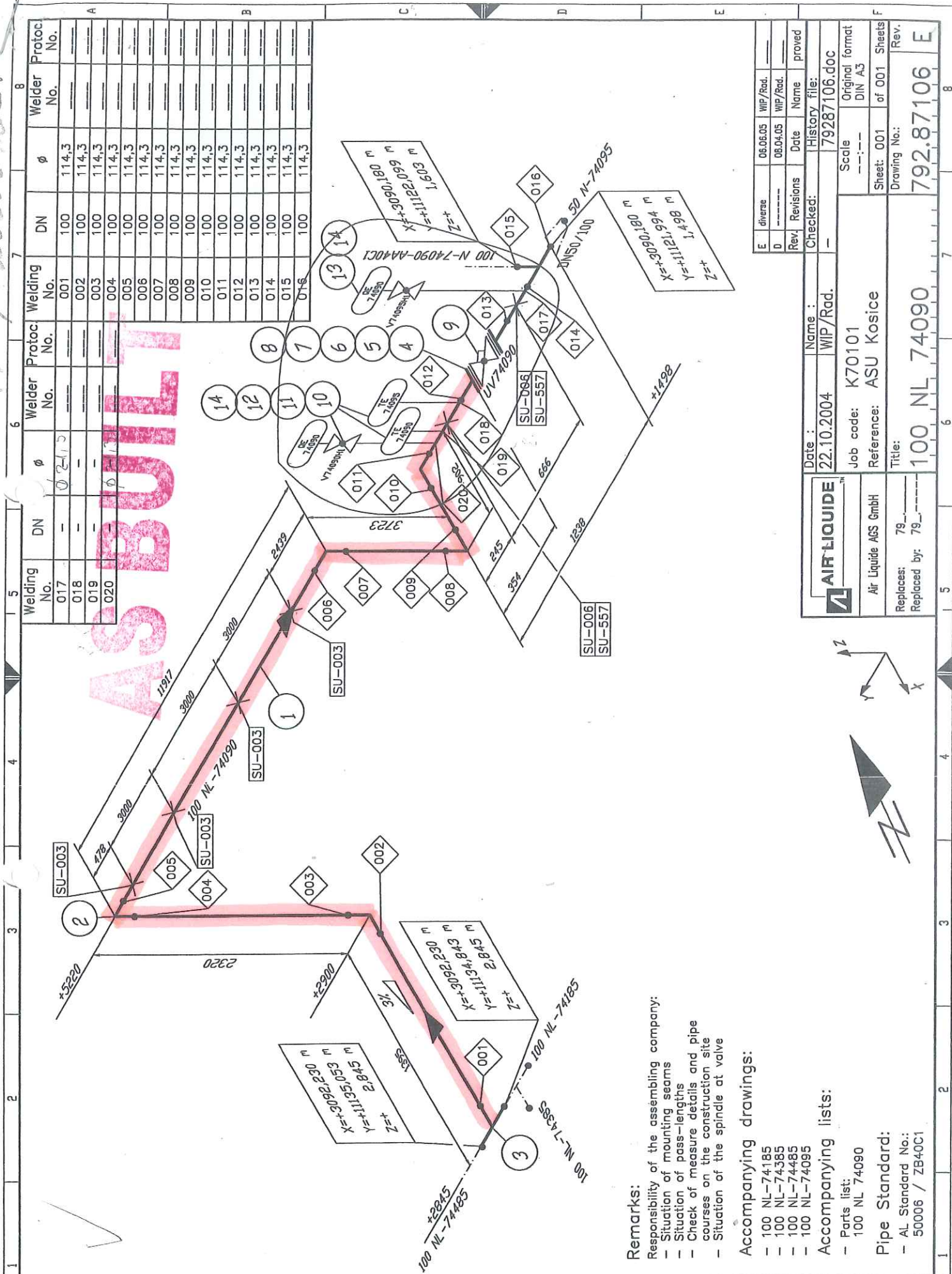
25 NL 43008

25 NL 73008

Izolácia - Rockwool WM-105 ZINC - Hr. - 60mm

Pozinkovaný plech - Hr. 0,8mm

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#### Remarks:

- Responsibility of the assembling company:
- Situation of mounting seams
- Situation of pass-lengths
- Check of measure details and pipe courses on the construction site
- Situation of the spindle at valve

#### Accompanying drawings:

- 100 NL-74185
- 100 NL-74385
- 100 NL-74485
- 100 NL-74095

#### Accompanying lists:

- Parts list:
- 100 NL 74090

#### Pipe Standard:

- AL Standard No.:
- 50006 / ZB40C1

|                       |  |                         |                 |                            |
|-----------------------|--|-------------------------|-----------------|----------------------------|
| <b>AIR LIQUIDE</b>    |  | Date : 22.10.2004       | Name : WIP/Rad. | History file: 79287106.doc |
| Job code: K70101      |  | Scale: ---:---          |                 |                            |
| Reference: ASU Kosice |  | Original format: DIN A3 |                 |                            |
| Title: 100 NL 74090   |  | Sheet: 001 of 001       |                 |                            |
| Replaces: 79          |  | Drawing No.: 792.87106  |                 |                            |
| Replaced by: 79       |  | Rev. E                  |                 |                            |

| E    | diversee  | 06.06.05 | WIP/Rad. |        |
|------|-----------|----------|----------|--------|
| D    |           | 08.04.05 | WIP/Rad. |        |
| Rev. | Revisions | Date     | Name     | proved |

Dusík 100 NL 74090

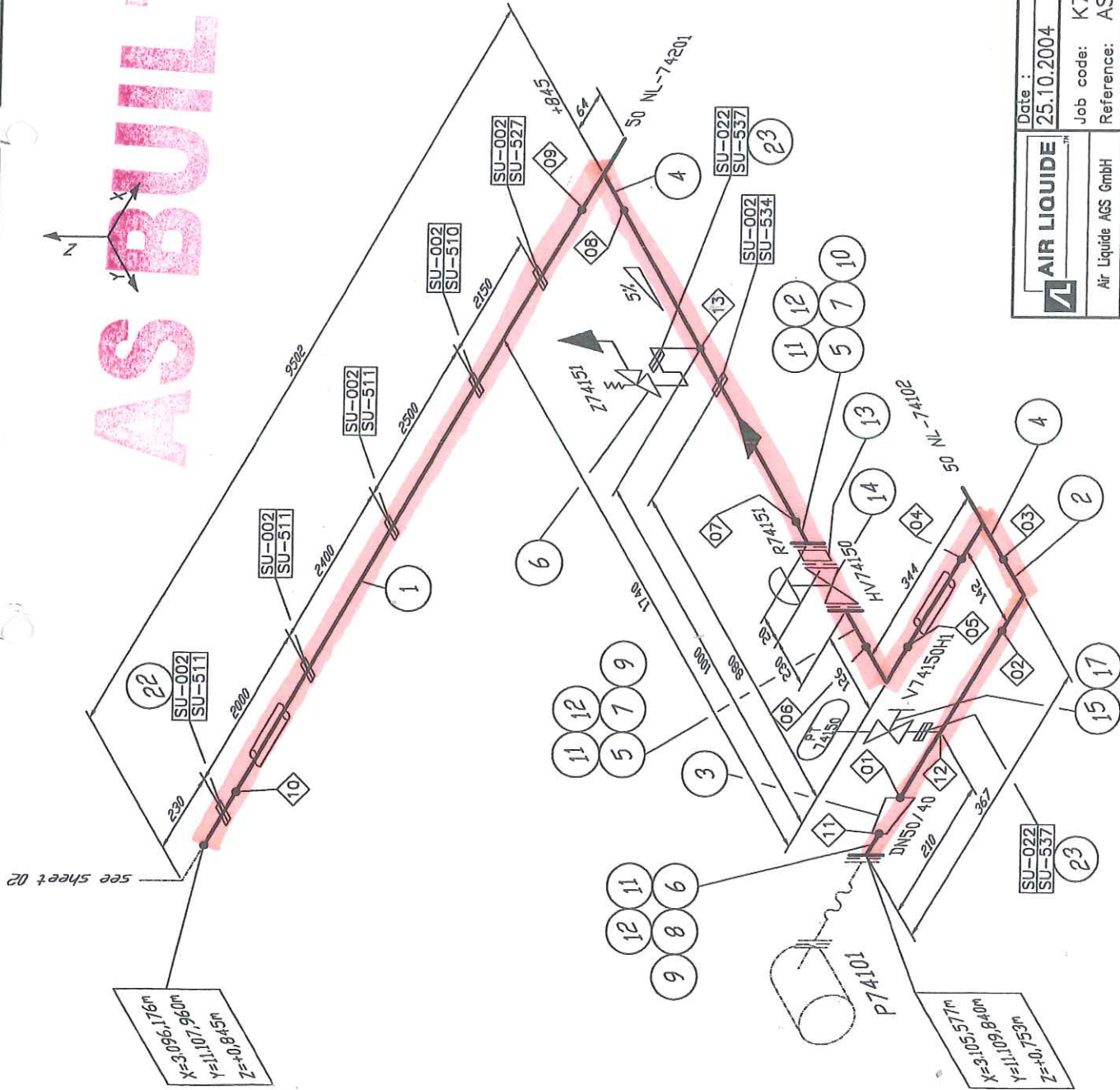
izol. Rockwool - WM 105 ZINC HR: 80mm

pozink. plech - HR 0,8mm

Nie je v zozname

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ASBUL



### Remarks:

Responsibility of the assembling company:

- Situation of mounting seams
- Situation of pass-lengths
- Check of measure details and pipe courses on the construction site
- Situation of the spindle at valve

### Accompanying drawings:

- 50 NL-74101 ZB40C1C Blatt 02
- 50 NL-74102 ZB40C1C
- 50 NL-74201 ZB40C1C

### Accompanying lists:

- Parts list:
- 50 NL-74101 ZB40C1C

### Pipe standard:

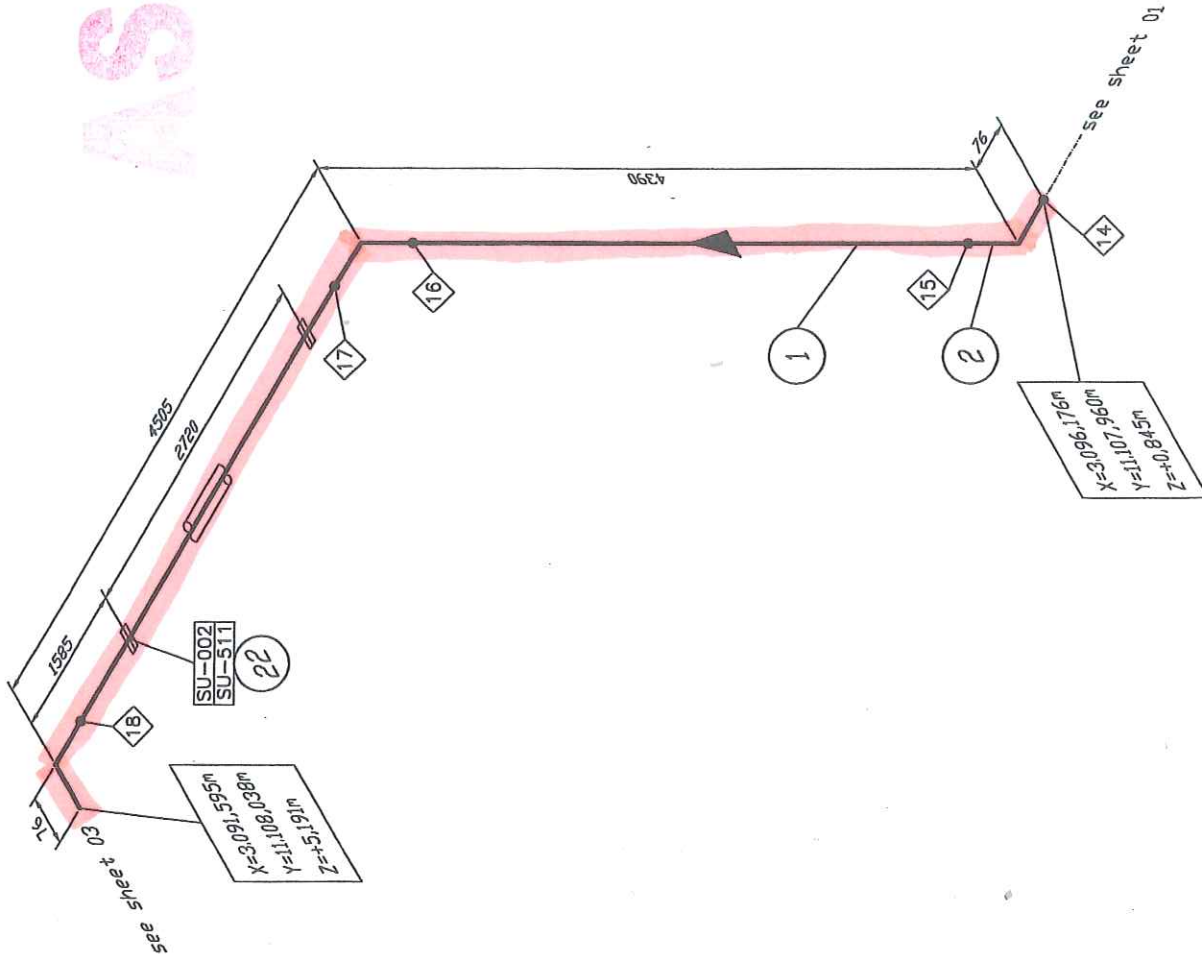
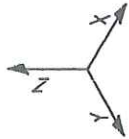
- AL Standard No.: 50006 (ZB40C1)

| Welding No. | DN | Diameter | Welder No. | Protocol No. |
|-------------|----|----------|------------|--------------|
| 01          | 50 | 60,3     |            |              |
| 02          | 50 | 60,3     |            |              |
| 03          | 50 | 60,3     |            |              |
| 04          | 50 | 60,3     |            |              |
| 05          | 50 | 60,3     |            |              |
| 06          | 50 | 60,3     |            |              |
| 07          | 50 | 60,3     |            |              |
| 08          | 50 | 60,3     |            |              |
| 09          | 50 | 60,3     |            |              |
| 10          | 50 | 60,3     |            |              |
| 11          | 40 | 48,3     |            |              |
| 12          |    | 21,3     |            |              |
| 13          |    | 22       |            |              |

|                       |  |                               |  |                            |  |
|-----------------------|--|-------------------------------|--|----------------------------|--|
| Date : 25.10.2004     |  | Name : Reid./IES              |  | History file: 79287106.doc |  |
| Job code: K70101      |  | Scale: Original format DIN A3 |  | Sheet: 001 of 003 Sheets   |  |
| Reference: ASU Kosice |  | Title: 50 NL-74101            |  | Drawing No.: 792.87106 C   |  |
| Replaces: 79          |  | Replaced by: 79               |  | Rev.:                      |  |

| Rev. | Revisions     | Date     | Name   | proved |
|------|---------------|----------|--------|--------|
| C    | 07.06.05      | WIP/Red. |        |        |
| B    | diff. Changes | 16.04.05 | Rb/IES | Gans   |

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| Welding No. | DN | Diameter | Welder No. | Protocol No. |
|-------------|----|----------|------------|--------------|
| 14          | 50 | 60,3     |            |              |
| 15          | 50 | 60,3     |            |              |
| 16          | 50 | 60,3     |            |              |
| 17          | 50 | 60,3     |            |              |
| 18          | 50 | 60,3     |            |              |

#### Remarks:

Responsibility of the assembling company:

- Situation of mounting seams
- Situation of pass-lengths
- Check of measure details and pipe courses on the construction site
- Situation of the spindle at valve

#### Accompanying drawings:

- 50 NL-74101 ZB40C1C Blatt 01
- 50 NL-74101 ZB40C1C Blatt 03

#### Accompanying lists:

- Parts list:  
50 NL-74101 ZB40C1C

#### Pipe standard:

- AL Standard No.:  
50006 (ZB40C1)



AIR LIQUIDE

Air Liquide AGS GmbH

Replaces: 79\_

Replaced by: 79\_

Date : 25.10.2004

Name : Reid./IES

Job code: K70101

Reference: ASU Kosice

Title: 50 NL-74101

Checked: Hr. Gans

Scale: Original format

Sheet: 002 of 003

Drawing No.: 792.87106

History file: 79287106.doc

Revisions

Date

Name

proved

07.06.05

WIP/Rad.

16.04.05

Rb/IES

Gans

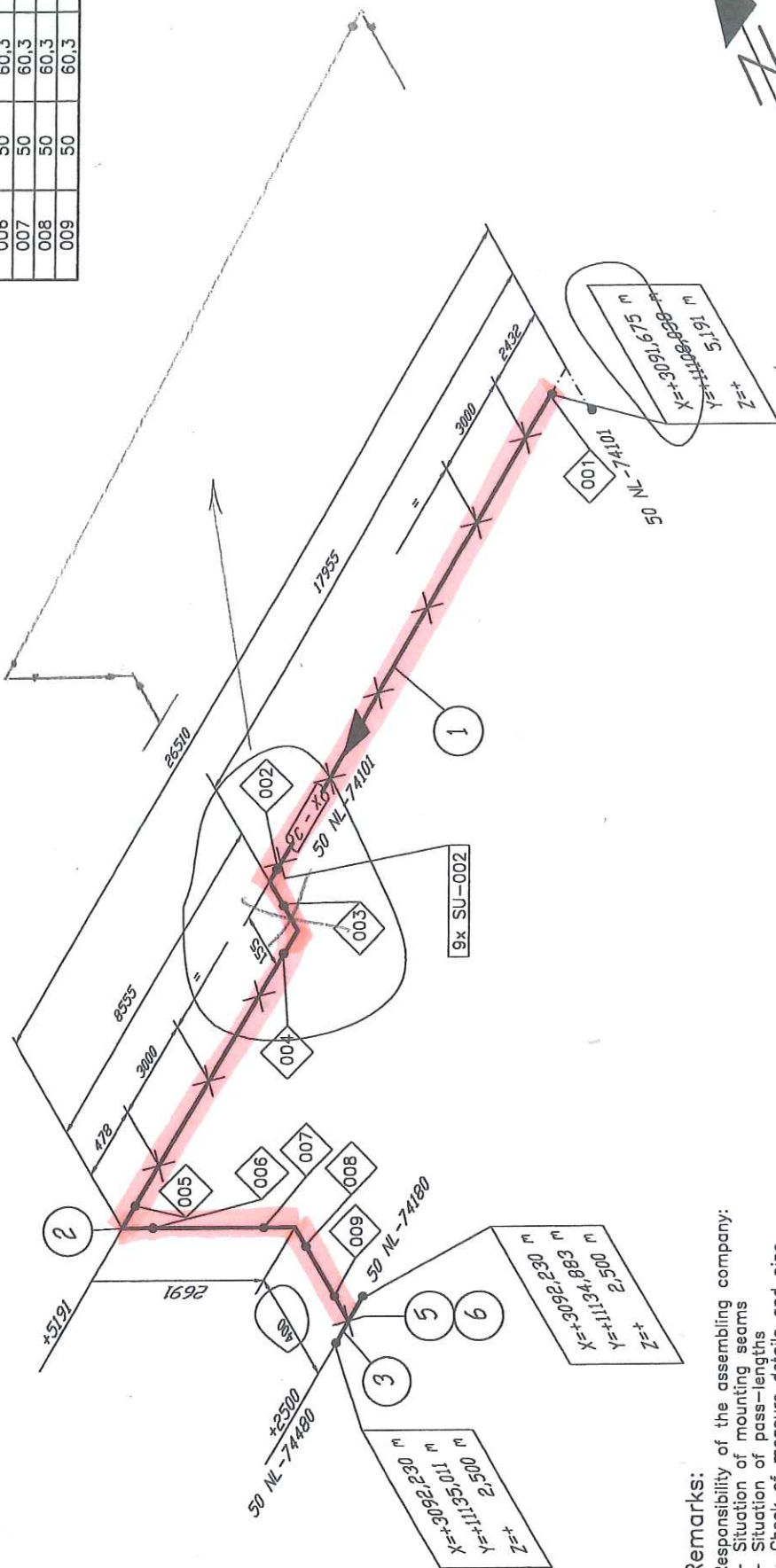
792.87106

C

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150  
135  
120  
105  
90  
75  
60  
45  
30  
15  
5

| Welding<br>No. | DN | ø    | Weider<br>No. | Protoc<br>No. |
|----------------|----|------|---------------|---------------|
| 001            | 50 | 60,3 |               |               |
| 002            | 50 | 60,3 |               |               |
| 003            | 50 | 60,3 |               |               |
| 004            | 50 | 60,3 |               |               |
| 005            | 50 | 60,3 |               |               |
| 006            | 50 | 60,3 |               |               |
| 007            | 50 | 60,3 |               |               |
| 008            | 50 | 60,3 |               |               |
| 009            | 50 | 60,3 |               |               |



**Remarks:**  
Responsibility of the assembling company:  
- Situation of mounting seams  
- Situation of pass-lengths  
- Check of measure details and pipe  
courses on the construction site  
- Situation of the spindle at valve

**Accompanying drawings:**

- 50 NL-74180
- 50 NL-74480
- 50 NL-74101

**Accompanying lists:**

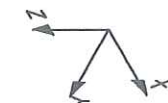
- Parts list:  
50 NL 74101

**Pipe Standard:**

- AL Standard No.:  
50006 / ZB40C1

|                      |  |              |             |            |                           |
|----------------------|--|--------------|-------------|------------|---------------------------|
| <b>AIR LIQUIDE</b>   |  | Date:        | 18.10.2004  | Name:      | WIP/Rad.                  |
| Air Liquide AGS GmbH |  | Job code:    | K70101      | Checked:   | 79287106.doc              |
| Replaces: 79         |  | Reference:   | ASU Kosice  | Scale      | Original format<br>DIN A3 |
| Replaced by: 79      |  | Title:       | 50 NL 74101 | Sheet: 003 | of 003 Sheets             |
|                      |  | Drawing No.: | 792.87106   | Rev.       | C                         |

| Rev. | Revisions | Date     | Name     | proved |
|------|-----------|----------|----------|--------|
| C    | diverse   | 07.06.05 | WIP/Rad. |        |
| A    |           | 17.12.04 | WIP/Rad. |        |



Dusik - 50 NL 74 101

izol. Rockwool - WM 105 ZINC HR: 80 mm  
pozink plech - HR 0,8 mm

01 AT  
B 42001

123456789

1050

650

360

650

91

91

50 NL 74-102

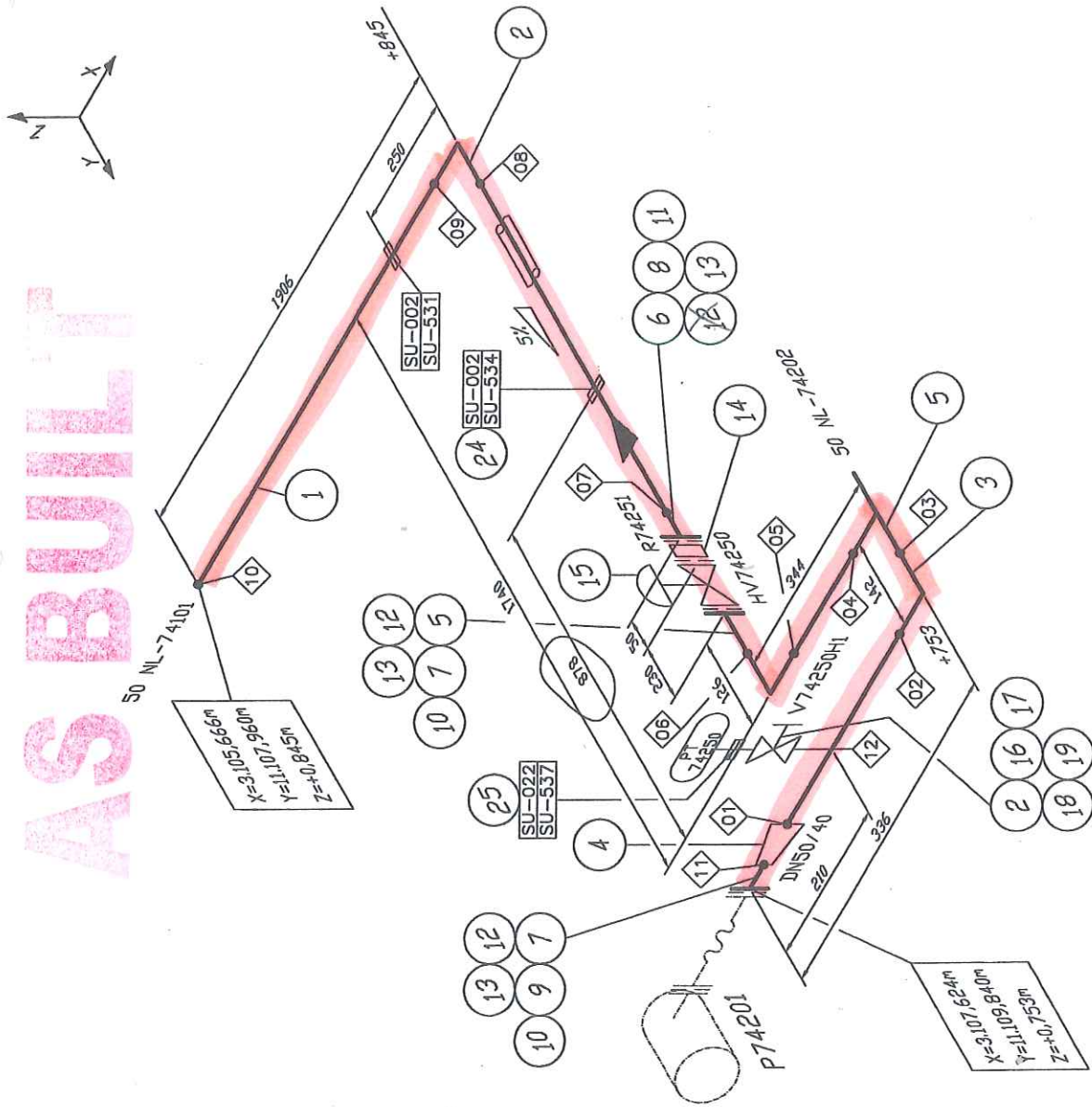
Dnsik 50 NL 74 102

izol.  Rockwool WM 105 ZINC HR: 80 mm

pozink. plech - Hr. 0,8 mm

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AS BUILT



| Welding No. | DN   | Diameter | Welder No. | Protocol No. |
|-------------|------|----------|------------|--------------|
| 01          | 50   | 60,3     |            |              |
| 02          | 50   | 60,3     |            |              |
| 03          | 50   | 60,3     |            |              |
| 04          | 50   | 60,3     |            |              |
| 05          | 50   | 60,3     |            |              |
| 06          | 50   | 60,3     |            |              |
| 07          | 50   | 60,3     |            |              |
| 08          | 50   | 60,3     |            |              |
| 09          | 50   | 60,3     |            |              |
| 10          | 50   | 60,3     |            |              |
| 11          | 40   | 48,3     |            |              |
| 12          | 21,3 |          |            |              |

#### Remarks:

- Responsibility of the assembling company:
- Situation of mounting seams
  - Situation of pass-lengths
  - Check of measure details and pipe courses on the construction site
  - Situation of the spindle at valve

#### Accompanying drawings:

- 50 NL-74101 ZB40C1C
- 50 NL-74202 ZB40C1C

#### Accompanying lists:

- Parts list:
- 50 NL-74201 ZB40C1C

#### Pipe standard:

- AL Standard No.: 50006 (ZB40C1)

|                                   |                       |
|-----------------------------------|-----------------------|
| <b>AIR LIQUIDE</b>                |                       |
| Job code: K70101                  | Reference: ASU Kosice |
| Replaces: 79-<br>Replaced by: 79- |                       |

|                          |                            |
|--------------------------|----------------------------|
| Date: 25.10.2004         | Name: Reid./IES            |
| Checked: Hr. Gans        | History file: 79287106.doc |
| Scale: ---:---           | Original format: DIN A3    |
| Sheet: 001               | of 001 Sheets              |
| Drawing No.: 50 NL-74201 | Rev. 792.87106 B           |

| B    | diverse       | 07.06.05 | W/P /Rad. |        |
|------|---------------|----------|-----------|--------|
| A    | diff. Changes | 18.01.05 | Rb/IES    | Gans   |
| Rev. | Revisions     | Date     | Name      | proved |

Dusík - NL 74 201

izol. Rockwool - WM 105 ZINC HR: 80 mm  
pozink. plech - HR - 0,8 mm

[illegible]

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Dusík - 50 NL 74202

- 50 NL 79203 - Nie je v zozname

izol. Rockwool - WM 105 ZINC HR- 80 mm  
pozink. plech - HR 0,8 mm