# Base Load Power Hub (BLPH)

## ISOMETRIC DRAWINGS & LIST

Document Number: 123A90-DDL-PP-DI-71000

Document Class: 2

| Rev. | Date | Description | Prepared | Reviewed | Approved |
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| 03 | 15/12/2025 | As Built (ASB) | MMA | CBO | CGI |
| 02 | 19/11/2024 | Accepted For Construction (AFC) | MMA | CBO | DLO |
| 01 | 26/07/2024 | Accepted For Construction (AFC) | MMA | CBO | DLO |
| 00 | 07/06/2024 | Issue for (IFR) | MMA | CBO | DLO |




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| CROSSWIND | HOLLANDSE KUST NOORD WIND PARK Project<br>Contract No. CW-I-WP4-2023-05 | ROSETTI MARINO |
|---|---|---|
| Document Title: | ISOMETRICS DRAWING & LIST | Sh. 2 of 8<br>Date: 15/12/2025<br>Rev. 03 |

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## Reference Document

### Project Documents

| DESIGNATION | DOC. NUMBER | REV. |
|---|---|---|
| BLPH PIPING AND INSTRUMENTATION DIAGRAM GENERAL NOTES | 123A90-DDL-PR-PID-80009 | 02 |
| BLPH PIPING AND INSTRUMENTATION DIAGRAM PIPING SYMBOLOGY | 123A90-DDL-PR-PID-80010 | 02 |
| BLPH PIPING AND INSTRUMENTATION DIAGRAM ELECTROLYSER PACKAGE | 123A90-DDL-PR-PID-80011 | 02 |
| BLPH PIPING AND INSTRUMENTATION DIAGRAM FUEL CELL PACKAGE | 123A90-DDL-PR-PID-80012 | 02 |
| BLPH PIPING AND INSTRUMENTATION DIAGRAM HYDROGEN STORAGE VESSELS HEADER (INLET) | 123A90-DDL-PR-PID-80013 | 02 |
| BLPH PIPING AND INSTRUMENTATION DIAGRAM HYDROGEN STORAGE VESSELS HEADER (OUTLET) | 123A90-DDL-PR-PID-80014 | 02 |
| BLPH PIPING AND INSTRUMENTATION DIAGRAM HYDROGEN STORAGE VESSEL A | 123A90-DDL-PR-PID-80015 | 02 |
| BLPH PIPING AND INSTRUMENTATION DIAGRAM HYDROGEN STORAGE VESSEL B | 123A90-DDL-PR-PID-80016 | 02 |
| BLPH PIPING AND INSTRUMENTATION DIAGRAM HYDROGEN STORAGE VESSEL C | 123A90-DDL-PR-PID-80017 | 02 |
| BLPH PIPING AND INSTRUMENTATION DIAGRAM HYDROGEN STORAGE VESSELD | 123A90-DDL-PR-PID-80018 | 02 |
| BLPH PIPING AND INSTRUMENTATION DIAGRAM HYDROGEN STORAGE VESSEL E | 123A90-DDL-PR-PID-80019 | 02 |
| BLPH PIPING AND INSTRUMENTATION DIAGRAM HYDROGEN STORAGE VESSEL F | 123A90-DDL-PR-PID-80020 | 02 |
| BLPH PIPING AND INSTRUMENTATION DIAGRAM SEA-WATER INTAKE SYSTEM Sh.1 | 123A90-DDL-PR-PID-80021 | 02 |
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| BLPH PIPING AND INSTRUMENTATION DIAGRAM WATER DISPOSAL Sh.1 | 123A90-DDL-PR-PID-80025 | 02 |
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| BLPH PIPING AND INSTRUMENTATION DIAGRAM HYDROGEN VENT DRUM | 123A90-DDL-PR-PID-80029 | 02 |
| BLPH PIPING AND INSTRUMENTATION DIAGRAM Instrument air distribution header | 123A90-DDL-PR-PID-80041 | 02 |
| BLPH PIPING AND INSTRUMENTATION DIAGRAM instrumentation SYMBOLOGY | 123A90-DDL-PR-PID-80042 | 02 |
| BLPH PIPING AND INSTRUMENTATION DIAGRAM OPEN DRAIN SYSTEM | 123A90-DDL-PR-PID-80043 | 00 |
| Piping and support general arrangement - Below Lower Deck | 123A90-DDL-PP-DA-70049 | 01 |
| Piping and support general arrangement - Above Lower Deck | 123A90-DDL-PP-DA-70050 | 01 |
| Piping and support general arrangement - Below Upper Deck | 123A90-DDL-PP-DA-70051 | 01 |
| Piping and support general arrangement - Above Upper Deck | 123A90-DDL-PP-DA-70052 | 01 |
| Piping and support general arrangement from EL. +31.410m to EL. +36.210m | 123A90-DDL-PP-DA-70053 | 01 |
| Piping and support general arrangement from EL. +36.210m to Above | 123A90-DDL-PP-DA-70054 | 01 |
| Piping Special Item list | 123A90-DDL-PP-LIS-70060 | 01 |
| Piping Support Book | 123A90-DDL-PP-DD-72000 | 01 |
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## Revision / Change Log

| Rev. | Description |
|---|---|
| 00 | ISSUE FOR REVIEW (IFR) |
| 01 | ACCEPTED FOR CONSTRUCTION (AFC) |
| 02 | ACCEPTED FOR CONSTRUCTION (AFC) |
| 03 | AS BUILT (ASB) |
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## HOLDS LIST

| No. | Description |
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| 4. | |




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**HOLLANDSE KUST NOORD WIND PARK Project**
**Contract No. CW-I-WP4-2023-05**

**ISOMETRICS DRAWING & LIST**

ROSETTI MARINO

Document Reference:
**123A90-DDL-PP-DI-71000**
Date: 15/12/2025
Rev. 03



| LINE DATA | | | | | | ISOMETRIC REVISION | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| N° OF ISSUE | LINE NUMBER | ISOMETRIC DRAWING NUMBER | SHEET PROGRESSIVE NUMBER | FABRICATION WEIGHT | ERECTION WEIGHT | ISOMETRIC REV, | ISOMETRIC REV, | ISOMETRIC REV, | ISOMETRIC REV, | ISOMETRIC REV, | ISOMETRIC REV, | ISOMETRIC REV, | ISOMETRIC REV, | ISOMETRIC REV, | ISOMETRIC REV, | ISOMETRIC REV, | ISOMETRIC REV, | NOTE |
| | | | 193 | 10872,61 | 8729,81 | 00 | 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 10 | VOID | |
| 02 | 1"-DM-001-01SS-E | 001 | 001 | 47,82 | 27,74 | 07/06/2024 | 26/07/2024 | | | | | | | | | | | |
| 02 | 2"-VL-003-01HSS-N | 002 | 001 | 61,61 | 44,17 | 07/06/2024 | 12/07/2024 | | | | | | | | | | | |
| 02 | 2"-VL-003-01HSS-N | 002 | 002 | 46,74 | 0,11 | 07/06/2024 | 12/07/2024 | | | | | | | | | | | |
| 02 | 1"-WW-004-01CS-H | 003 | 001 | 44,37 | 12,45 | 07/06/2024 | 26/07/2024 | | | | | | | | | | | |
| 02 | 1"-WW-004-01CS-H | 003 | 002 | 86,89 | 26,56 | 07/06/2024 | 26/07/2024 | | | | | | | | | | | |
| 02 | 1"-DM-005-01CS-H | 004 | 001 | 47,10 | 12,13 | 07/06/2024 | 26/07/2024 | | | | | | | | | | | |
| 02 | 1"-HY-007-03HSS-N | 005 | 001 | 28,03 | 35,34 | 07/06/2024 | 12/07/2024 | | | | | | | | | | | |
| 02 | 1"-HY-007-03HSS-N | 005 | 002 | 42,39 | 55,71 | 07/06/2024 | 12/07/2024 | | | | | | | | | | | |
| 02 | 1"-HY-007-03HSS-N | 005 | 003 | 40,60 | 1,14 | 07/06/2024 | 12/07/2024 | | | | | | | | | | | |
| 02 | 6"-VL-010-01HSS-N | 006 | 001 | 97,45 | 198,11 | 07/06/2024 | 12/07/2024 | | | | | | | | | | | |
| 02 | 1"-DI-012-01CS-H | 007 | 001 | 39,13 | 11,39 | 07/06/2024 | 26/07/2024 | | | | | | | | | | | |
| 02 | 1"-VL-014-01HSS-N | 008 | 001 | 29,67 | 0,28 | 07/06/2024 | 12/07/2024 | | | | | | | | | | | |
| 02 | 1"-HY-015-03HSS-N | 009 | 001 | 16,38 | 60,57 | 07/06/2024 | 12/07/2024 | | | | | | | | | | | |
| 02 | 1"-HY-016-03HSS-N | 010 | 001 | 16,31 | 60,57 | 07/06/2024 | 12/07/2024 | | | | | | | | | | | |
| 02 | 1"-HY-017-03HSS-N | 011 | 001 | 16,31 | 60,57 | 07/06/2024 | 12/07/2024 | | | | | | | | | | | |
| 02 | 1"-HY-018-03HSS-N | 012 | 001 | 16,71 | 60,76 | 07/06/2024 | 12/07/2024 | | | | | | | | | | | |
| 02 | 1"-HY-019-03HSS-N | 013 | 001 | 16,71 | 60,76 | 07/06/2024 | 12/07/2024 | | | | | | | | | | | |
| 02 | 1"-HY-020-03HSS-N | 014 | 001 | 16,71 | 60,76 | 07/06/2024 | 12/07/2024 | | | | | | | | | | | |
| 02 | 2"-VL-022-01HSS-N | 015 | 001 | 10,82 | 0,00 | 07/06/2024 | 12/07/2024 | | | | | | | | | | | |
| 02 | 2"-HY-023-01HSS-N | 016 | 001 | 29,74 | 29,65 | 07/06/2024 | 12/07/2024 | | | | | | | | | | | |
| 02 | 2"-HY-023-01HSS-N | 016 | 002 | 79,80 | 36,80 | 07/06/2024 | 12/07/2024 | | | | | | | | | | | |
| 02 | 11/2"-HY-024-03HSS-N | 017 | 001 | 9,07 | 59,45 | 07/06/2024 | 12/07/2024 | | | | | | | | | | | |
| 02 | 4"-VL-025-01HSS-N | 018 | 001 | 66,12 | 88,01 | 07/06/2024 | 12/07/2024 | | | | | | | | | | | |
| 02 | 1"-HY-026-03HSS-N | 019 | 001 | 18,47 | 60,57 | 07/06/2024 | 12/07/2024 | | | | | | | | | | | |
| 02 | 1"-N-028-03HSS-N | 020 | 001 | 4,16 | 2,17 | 07/06/2024 | 26/07/2024 | | | | | | | | | | | |
| 02 | 1"-CI-029-01CP-E | 021 | 001 | 0,00 | 15,27 | 07/06/2024 | 26/07/2024 | | | | | | | | | | | |
| 02 | 1"-CI-029-01CP-E | 021 | 002 | 0,00 | 16,81 | 07/06/2024 | 26/07/2024 | | | | | | | | | | | |
| 02 | 1"-CI-030-01CP-E | 022 | 001 | 0,00 | 4,15 | 07/06/2024 | 26/07/2024 | | | | | | | | | | | |
| 02 | 11/2"-SWS-031-01SD-E | 023 | 001 | 34,25 | 120,47 | 07/06/2024 | 26/07/2024 | | | | | | | | | | | |
| 02 | 1"-CI-032-01CP-E | 024 | 001 | 0,00 | 4,15 | 07/06/2024 | 26/07/2024 | | | | | | | | | | | |
| 02 | 11/2"-SWS-033-01SD-E | 025 | 001 | 33,37 | 120,47 | 07/06/2024 | 26/07/2024 | | | | | | | | | | | |
| 02 | 11/2"-SWS-035-01SD-E | 026 | 001 | 35,48 | 7,61 | 07/06/2024 | 26/07/2024 | | | | | | | | | | | |
| 02 | 11/2"-SWS-035-01SD-E | 026 | 002 | 34,90 | 16,26 | 07/06/2024 | 26/07/2024 | | | | | | | | | | | |
| 02 | 1"-WW-038-01CS-H | 027 | 001 | 6,86 | 3,55 | 07/06/2024 | 26/07/2024 | | | | | | | | | | | |
| 02 | 1"-CI-043-01CP-E | 028 | 001 | 0,00 | 4,98 | 07/06/2024 | 26/07/2024 | | | | | | | | | | | |
| 02 | 1"-CI-043-01CP-E | 028 | 002 | 18,09 | 10,70 | 07/06/2024 | 26/07/2024 | | | | | | | | | | | |
| 02 | 1"-SWR-045-01CS-H | 029 | 001 | 6,79 | 1,17 | 07/06/2024 | 26/07/2024 | | | | | | | | | | | |
| 02 | 1"-WW-071-01CS-H | 030 | 001 | 27,73 | 12,67 | 07/06/2024 | 26/07/2024 | | | | | | | | | | | |
| 02 | 1"-WW-071-01CS-H | 030 | 002 | 57,21 | 19,61 | 07/06/2024 | 26/07/2024 | | | | | | | | | | | |
| 03 | 1"-WW-071-01CS-H | 030 | 003 | 16,22 | 5,95 | 07/06/2024 | 26/07/2024 | | | | | | | | | | | |
| 02 | 11/2"-WW-073-01CS-H | 031 | 001 | 150,39 | 37,18 | 07/06/2024 | 26/07/2024 | | | | | | | | | | | |
| 02 | 11/2"-WW-073-01CS-H | 031 | 002 | 26,93 | 27,97 | 07/06/2024 | 26/07/2024 | | | | | | | | | | | |
| 03 | 11/2"-WW-073-01CS-H | 031 | 003 | 829,33 | 5,46 | 07/06/2024 | 26/07/2024 | | | | | | | | | | | |
| 02 | 1"-WW-079-01CS-N | 032 | 001 | 50,70 | 31,18 | 07/06/2024 | 26/07/2024 | | | | | | | | | | | |
| 02 | 1"-WW-081-01CS-H | 033 | 001 | 56,73 | 20,37 | 07/06/2024 | 26/07/2024 | | | | | | | | | | | |
| 02 | 1"-N-100-01CS-N | 034 | 001 | 25,98 | 18,24 | 07/06/2024 | 26/07/2024 | | | | | | | | | | | |
| 02 | 1"-N-100-01CS-N | 034 | 002 | 38,54 | 0,95 | 07/06/2024 | 26/07/2024 | | | | | | | | | | | |
| 02 | 1"-N-101-01CS-N | 035 | 001 | 10,56 | 11,63 | 07/06/2024 | 26/07/2024 | | | | | | | | | | | |
| 02 | 1-1/2"-IA-108-01SS-N | 036 | 001 | 63,22 | 26,55 | 07/06/2024 | 26/07/2024 | | | | | | | | | | | |
| 02 | 1-1/2"-IA-108-01SS-N | 036 | 002 | 79,08 | 2,32 | 07/06/2024 | 26/07/2024 | | | | | | | | | | | |
| 02 | 1-1/2"-IA-108-01SS-N | 036 | 003 | 76,29 | 2,61 | 07/06/2024 | 26/07/2024 | | | | | | | | | | | |
| 02 | 1-1/2"-IA-108-01SS-N | 036 | 004 | 59,23 | 2,32 | 07/06/2024 | 26/07/2024 | | | | | | | | | | | |
| 02 | 1-1/2"-IA-108-01SS-N | 036 | 005 | 73,40 | 2,32 | 07/06/2024 | 26/07/2024 | | | | | | | | | | | |
| 02 | 1-1/2"-IA-108-01SS-N | 036 | 006 | 70,72 | 2,03 | 07/06/2024 | 26/07/2024 | | | | | | | | | | | |
| 02 | 1-1/2"-IA-108-01SS-N | 036 | 007 | 31,93 | 0,96 | 07/06/2024 | 26/07/2024 | | | | | | | | | | | |
| 02 | 1-1/2"-IA-108-01SS-N | 036 | 008 | 63,44 | 2,51 | 07/06/2024 | 26/07/2024 | | | | | | | | | | | |
| 02 | 4"-VL-111-01HSS-N | 037 | 001 | 69,58 | 87,35 | 07/06/2024 | 12/07/2024 | | | | | | | | | | | |
| 02 | 4"-VL-112-01HSS-N | 038 | 001 | 69,24 | 87,35 | 07/06/2024 | 12/07/2024 | | | | | | | | | | | |
| 02 | 4"-VL-113-01HSS-N | 039 | 001 | 69,25 | 87,35 | 07/06/2024 | 12/07/2024 | | | | | | | | | | | |
| 02 | 4"-VL-114-01HSS-N | 040 | 001 | 69,59 | 87,35 | 07/06/2024 | 12/07/2024 | | | | | | | | | | | |

CROSSWIND

**HOLLANDSE KUST NOORD WIND PARK Project**
**Contract No. CW-I-WP4-2023-05**

**ISOMETRICS DRAWING & LIST**

ROSETTI MARINO

Document Reference:
**123A90-DDL-PP-DI-71000**
Date: 15/12/2025
Rev. 03



| LINE DATA | | | | | | ISOMETRIC REVISION | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| N° OF ISSUE | LINE NUMBER | ISOMETRIC DRAWING NUMBER | SHEET PROGRESSIVE NUMBER | FABRICATION WEIGHT | ERECTION WEIGHT | ISOMETRIC REV, | ISOMETRIC REV, | ISOMETRIC REV, | ISOMETRIC REV, | ISOMETRIC REV, | ISOMETRIC REV, | ISOMETRIC REV, | ISOMETRIC REV, | ISOMETRIC REV, | ISOMETRIC REV, | ISOMETRIC REV, | ISOMETRIC REV, | NOTE |
| | | | 193 | 10872,61 | 8729,81 | 00 | 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 10 | VOID | |
| 02 | 4"-VL-115-01HSS-N | 041 | 001 | 71,17 | 88,04 | 07/06/2024 | 12/07/2024 | | | | | | | | | | | |
| 02 | 10"-VL-116-01HSS-N | 042 | 001 | 327,80 | 0,00 | 07/06/2024 | 12/07/2024 | | | | | | | | | | | |
| 02 | 10"-VL-116-01HSS-N | 042 | 002 | 293,31 | 26,30 | 07/06/2024 | 12/07/2024 | | | | | | | | | | | |
| 02 | 10"-VL-117-01HSS-N | 043 | 001 | 404,52 | 36,96 | 07/06/2024 | 12/07/2024 | | | | | | | | | | | Hold |
| 02 | 10"-VL-123-01HSS-N | 044 | 001 | 639,20 | 8,64 | 07/06/2024 | 12/07/2024 | | | | | | | | | | | |
| 02 | 1"-N-124-03HSS-N | 045 | 001 | 4,16 | 2,17 | 07/06/2024 | 26/07/2024 | | | | | | | | | | | |
| 02 | 1"-N-125-03HSS-N | 046 | 001 | 4,16 | 2,17 | 07/06/2024 | 26/07/2024 | | | | | | | | | | | |
| 02 | 1"-N-126-03HSS-N | 047 | 001 | 4,56 | 2,17 | 07/06/2024 | 26/07/2024 | | | | | | | | | | | |
| 02 | 1"-N-127-03HSS-N | 048 | 001 | 4,56 | 2.17 | 07/06/2024 | 26/07/2024 | | | | | | | | | | | |
| 02 | 1"-N-128-03HSS-N | 049 | 001 | 4,56 | 2,17 | 07/06/2024 | 26/07/2024 | | | | | | | | | | | |
| 02 | 1"-HY-132-03HSS-N | 050 | 001 | 18,47 | 60,57 | 07/06/2024 | 12/07/2024 | | | | | | | | | | | |
| 02 | 1"-HY-133-03HSS-N | 051 | 001 | 18,47 | 60,57 | 07/06/2024 | 12/07/2024 | | | | | | | | | | | |
| 02 | 1"-HY-134-03HSS-N | 052 | 001 | 18,33 | 60,57 | 07/06/2024 | 12/07/2024 | | | | | | | | | | | |
| 02 | 1"-HY-135-03HSS-N | 053 | 001 | 18,33 | 60,57 | 07/06/2024 | 12/07/2024 | | | | | | | | | | | |
| 02 | 1"-HY-136-03HSS-N | 054 | 001 | 20,35 | 60,76 | 07/06/2024 | 12/07/2024 | | | | | | | | | | | |
| 02 | 4"-HY-142-03HSS-N | 055 | 001 | 181,71 | 777,30c | 07/06/2024 | 12/07/2024 | | | | | | | | | | | Hold |
| 02 | 1"-HY-143-03HSS-N | 056 | 001 | 15,22 | 91,68 | 07/06/2024 | 12/07/2024 | | | | | | | | | | | Hold |
| 02 | 1"-HY-144-03HSS-N | 057 | 001 | 21,42 | 107,38 | 07/06/2024 | 12/07/2024 | | | | | | | | | | | Hold |
| 02 | 6"-VL-145-01HSS-N | 058 | 001 | 61,94 | 1,42 | 07/06/2024 | 12/07/2024 | | | | | | | | | | | |
| 02 | 1"-SWS-146-01SD-E | 059 | 001 | 4,11 | 42,52 | 07/06/2024 | 26/07/2024 | | | | | | | | | | | |
| 02 | 1"-SWS-147-01SD-E | 060 | 001 | 4,12 | 42,52 | 07/06/2024 | 26/07/2024 | | | | | | | | | | | |
| 02 | 1-1/2"-HY-148-03HSS-N | 061 | 001 | 41,92 | 0,58 | 07/06/2024 | 12/07/2024 | | | | | | | | | | | |
| 02 | 1-1/2"-HY-148-03HSS-N | 061 | 002 | 40,95 | 207,48 | 07/06/2024 | 12/07/2024 | | | | | | | | | | | |
| 02 | 1-1/2"-HY-148-03HSS-N | 061 | 003 | 64,90 | 2,03 | 07/06/2024 | 12/07/2024 | | | | | | | | | | | |
| 02 | 1"-N-151-01CS-N | 062 | 001 | 69,94 | 1,90 | 07/06/2024 | 26/07/2024 | | | | | | | | | | | |
| 02 | 1"-N-151-01CS-N | 062 | 002 | 30,59 | 2,11 | 07/06/2024 | 26/07/2024 | | | | | | | | | | | |
| 02 | 4"-HY-152-01HSS-N | 063 | 001 | 111,09 | 139,15 | 07/06/2024 | 12/07/2024 | | | | | | | | | | | |
| 02 | 1"-HY-153-03HSS-N | 064 | 001 | 29,91 | 89,61 | 07/06/2024 | 12/07/2024 | | | | | | | | | | | |
| 02 | 1"-N-154-01HSS-N | 065 | 001 | 14,87 | 8,53 | 07/06/2024 | 26/07/2024 | | | | | | | | | | | |
| 02 | 1"-N-158-01CS-N | 066 | 001 | 13,15 | 118,65 | 07/06/2024 | 26/07/2024 | | | | | | | | | | | |
| 02 | 2"-AV-160-01CS-N | 067 | 001 | 16,72 | 1,72 | 07/06/2024 | 26/07/2024 | | | | | | | | | | | |
| 02 | 1"-HY-163-01HSS-N | 068 | 001 | 38,42 | 1,14 | 07/06/2024 | 12/07/2024 | | | | | | | | | | | |
| 02 | 1"-HY-163-01HSS-N | 068 | 002 | 26,95 | 65,70 | 07/06/2024 | 12/07/2024 | | | | | | | | | | | |
| 02 | 1"-HY-164-03HSS-N | 069 | 001 | 3,64 | 7,90 | 07/06/2024 | 26/07/2024 | | | | | | | | | | | |
| 02 | 1"-HY-164-03HSS-N | 069 | 002 | 3,64 | 7,90 | 07/06/2024 | 26/07/2024 | | | | | | | | | | | |
| 02 | 1"-HY-165-03HSS-N | 070 | 001 | 3,64 | 7,90 | 07/06/2024 | 26/07/2024 | | | | | | | | | | | |
| 02 | 1"-HY-165-03HSS-N | 070 | 002 | 3,64 | 7,90 | 07/06/2024 | 26/07/2024 | | | | | | | | | | | |
| 02 | 11/2"-HY-166-03HSS-N | 071 | 001 | 9,07 | 59,45 | 07/06/2024 | 12/07/2024 | | | | | | | | | | | |
| 02 | 4"-HY-167-03HSS-N | 072 | 001 | 181,71 | 777,30 | 07/06/2024 | 12/07/2024 | | | | | | | | | | | Hold |
| 02 | 6"-VL-168-01HSS-N | 073 | 001 | 61,44 | 1,42 | 07/06/2024 | 12/07/2024 | | | | | | | | | | | |
| 02 | 1"-HY-169-03HSS-N | 074 | 001 | 3,64 | 7,90 | 07/06/2024 | 26/07/2024 | | | | | | | | | | | |
| 02 | 1"-HY-169-03HSS-N | 074 | 002 | 3,64 | 7,90 | 07/06/2024 | 26/07/2024 | | | | | | | | | | | |
| 02 | 11/2"-HY-170-03HSS-N | 075 | 001 | 9,07 | 59,45 | 07/06/2024 | 12/07/2024 | | | | | | | | | | | |
| 02 | 4"-HY-171-03HSS-N | 076 | 001 | 181,71 | 777,30 | 07/06/2024 | 12/07/2024 | | | | | | | | | | | Hold |
| 02 | 6"-VL-172-01HSS-N | 077 | 001 | 60,88 | 1,42 | 07/06/2024 | 12/07/2024 | | | | | | | | | | | |
| 02 | 1"-HY-173-03HSS-N | 078 | 001 | 3,64 | 7,90 | 07/06/2024 | 26/07/2024 | | | | | | | | | | | |
| 02 | 1"-HY-173-03HSS-N | 078 | 002 | 3,64 | 7,90 | 07/06/2024 | 26/07/2024 | | | | | | | | | | | |
| 02 | 11/2"-HY-174-03HSS-N | 079 | 001 | 9,07 | 59,45 | 07/06/2024 | 12/07/2024 | | | | | | | | | | | |
| 02 | 4"-HY-175-03HSS-N | 080 | 001 | 181,70 | 777,30 | 07/06/2024 | 12/07/2024 | | | | | | | | | | | Hold |
| 02 | 6"-VL-176-01HSS-N | 081 | 001 | 60,86 | 1,42 | 07/06/2024 | 12/07/2024 | | | | | | | | | | | |
| 02 | 1"-HY-178-03HSS-N | 082 | 001 | 3,64 | 7,90 | 07/06/2024 | 26/07/2024 | | | | | | | | | | | |
| 02 | 1"-HY-178-03HSS-N | 082 | 002 | 3,64 | 7,90 | 07/06/2024 | 26/07/2024 | | | | | | | | | | | |
| 02 | 11/2"-HY-179-03HSS-N | 083 | 001 | 9,07 | 59,45 | 07/06/2024 | 12/07/2024 | | | | | | | | | | | |
| 02 | 4"-HY-180-03HSS-N | 084 | 001 | 181,71 | 777,30 | 07/06/2024 | 12/07/2024 | | | | | | | | | | | Hold |
| 02 | 6"-VL-181-01HSS-N | 085 | 001 | 61,44 | 1,42 | 07/06/2024 | 12/07/2024 | | | | | | | | | | | |
| 02 | 1"-HY-182-03HSS-N | 086 | 001 | 3,64 | 7,90 | 07/06/2024 | 26/07/2024 | | | | | | | | | | | |
| 02 | 1"-HY-182-03HSS-N | 086 | 002 | 3,64 | 7,90 | 07/06/2024 | 26/07/2024 | | | | | | | | | | | |
| 02 | 11/2"-HY-183-03HSS-N | 087 | 001 | 9,07 | 59,45 | 07/06/2024 | 12/07/2024 | | | | | | | | | | | |
| 02 | 4"-HY-184-03HSS-N | 088 | 001 | 179,58 | 777,30 | 07/06/2024 | 12/07/2024 | | | | | | | | | | | Hold |
| 02 | 6"-VL-185-01HSS-N | 089 | 001 | 59,86 | 1,42 | 07/06/2024 | 12/07/2024 | | | | | | | | | | | |

CROSSWIND

**HOLLANDSE KUST NOORD WIND PARK Project**
**Contract No. CW-I-WP4-2023-05**

**ISOMETRICS DRAWING & LIST**

ROSETTI MARINO

Document Reference:
**123A90-DDL-PP-DI-71000**
Date: 15/12/2025
Rev. 03



| LINE DATA | | | | | | ISOMETRIC REVISION | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| N° OF ISSUE | LINE NUMBER | ISOMETRIC DRAWING NUMBER | SHEET PROGRESSIVE NUMBER | FABRICATION WEIGHT | ERECTION WEIGHT | ISOMETRIC REV, | ISOMETRIC REV, | ISOMETRIC REV, | ISOMETRIC REV, | ISOMETRIC REV, | ISOMETRIC REV, | ISOMETRIC REV, | ISOMETRIC REV, | ISOMETRIC REV, | ISOMETRIC REV, | ISOMETRIC REV, | ISOMETRIC REV, | NOTE |
| | | | 193 | 10872,61 | 8729,81 | 00 | 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 10 | VOID | |
| 02 | 1"-HY-186-03HSS-N | 090 | 001 | 29,91 | 89,61 | 07/06/2024 | 12/07/2024 | | | | | | | | | | | |
| 02 | 1"-HY-187-03HSS-N | 091 | 001 | 29,91 | 89,61 | 07/06/2024 | 12/07/2024 | | | | | | | | | | | |
| 02 | 1"-HY-188-03HSS-N | 092 | 001 | 29,91 | 89,61 | 07/06/2024 | 12/07/2024 | | | | | | | | | | | |
| 02 | 1"-HY-189-03HSS-N | 093 | 001 | 29,91 | 89,61 | 07/06/2024 | 12/07/2024 | | | | | | | | | | | |
| 02 | 1"-HY-190-03HSS-N | 094 | 001 | 29,91 | 89,61 | 07/06/2024 | 12/07/2024 | | | | | | | | | | | |
| 02 | 1"-IA-191-01SS-N | 095 | 001 | 50,34 | 8,95 | 07/06/2024 | 26/07/2024 | | | | | | | | | | | |
| 01 | 1"-CI-196-01CP-E | 096 | | | | 07/06/2024 | | | | | | | | | | | 12//07/2024 | DELETED |
| 02 | 11/2"-N-197-01CS-N | 097 | 001 | 7,54 | 43,57 | 07/06/2024 | 26/07/2024 | | | | | | | | | | | |
| 02 | 3"-WW-200-01CS-H | 098 | 001 | 0,00 | 1,17 | 07/06/2024 | 26/07/2024 | | | | | | | | | | | |
| 02 | 3"-WW-201-01CS-H | 099 | 001 | 11,03 | 33,01 | 07/06/2024 | 26/07/2024 | | | | | | | | | | | |
| 02 | 1"-WW-202-01CS-H | 100 | 001 | 20,65 | 5,70 | 07/06/2024 | 26/07/2024 | | | | | | | | | | | |
| 02 | 1"-WW-202-01CS-H | 100 | 002 | 38,43 | 11,50 | 07/06/2024 | 26/07/2024 | | | | | | | | | | | |
| 02 | 1"-IA-203-01SS-N | 101 | 001 | 4,45 | 7,27 | 07/06/2024 | 26/07/2024 | | | | | | | | | | | |
| 02 | 11/2"-IA-204-01SS-N | 102 | 001 | 15,93 | 14,53 | 07/06/2024 | 26/07/2024 | | | | | | | | | | | |
| 02 | 1"-IA-205-01SS-N | 103 | 001 | 8,07 | 7,46 | 07/06/2024 | 26/07/2024 | | | | | | | | | | | |
| 02 | 1"-IA-206-01SS-N | 104 | 001 | 2,94 | 7,27 | 07/06/2024 | 26/07/2024 | | | | | | | | | | | |
| 02 | 1"-IA-207-01SS-N | 105 | 001 | 0,00 | 8,50 | 07/06/2024 | 26/07/2024 | | | | | | | | | | | |
| 02 | 1"-IA-208-01SS-N | 106 | 001 | 7,46 | 7,46 | 07/06/2024 | 26/07/2024 | | | | | | | | | | | |
| 02 | 1"-IA-209-01SS-N | 107 | 001 | 5,88 | 7,46 | 07/06/2024 | 26/07/2024 | | | | | | | | | | | |
| 02 | 1"-IA-210-01SS-N | 108 | 001 | 4,69 | 7,46 | 07/06/2024 | 26/07/2024 | | | | | | | | | | | |
| 02 | 1"-IA-211-01SS-N | 109 | 001 | 4,45 | 7,27 | 07/06/2024 | 26/07/2024 | | | | | | | | | | | |
| 02 | 1"-IA-212-01SS-N | 110 | 001 | 7,46 | 7,27 | 07/06/2024 | 26/07/2024 | | | | | | | | | | | |
| 02 | 1"-IA-213-01SS-N | 111 | 001 | 2,94 | 7,27 | 07/06/2024 | 26/07/2024 | | | | | | | | | | | |
| 02 | 1"-IA-214-01SS-N | 112 | 001 | 7,46 | 7,46 | 07/06/2024 | 26/07/2024 | | | | | | | | | | | |
| 02 | 1"-IA-215-01SS-N | 113 | 001 | 9,49 | 7,65 | 07/06/2024 | 26/07/2024 | | | | | | | | | | | |
| 02 | 1"-WW-216-01CS-N | 114 | 001 | 15,83 | 7,80 | 07/06/2024 | 26/07/2024 | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | |
| 02 | 1"-VL-220-01HSS-N | 116 | 001 | 0,00 | 30,29 | 07/06/2024 | 26/07/2024 | | | | | | | | | | | |
| 02 | 1"-VL-220-01HSS-N | 116 | 002 | 0,00 | 7,83 | 07/06/2024 | 26/07/2024 | | | | | | | | | | | |
| 02 | 1"-VL-220-01HSS-N | 116 | 003 | 0,00 | 7,83 | 07/06/2024 | 26/07/2024 | | | | | | | | | | | |
| 02 | 1"-VL-220-01HSS-N | 116 | 004 | 2,61 | 5,41 | 07/06/2024 | 26/07/2024 | | | | | | | | | | | |
| 02 | 1"-SWS-221-01SD-E | 117 | 001 | 0,00 | 8,98 | 07/06/2024 | 26/07/2024 | | | | | | | | | | | |
| 02 | 1"-SWS-222-01SD-E | 118 | 001 | 0,00 | 8,98 | 07/06/2024 | 26/07/2024 | | | | | | | | | | | |
| 02 | 1"-IA-223-01SS-N | 119 | 001 | 6,47 | 7,46 | 07/06/2024 | 26/07/2024 | | | | | | | | | | | |
| 02 | 2"-AV-224-01CS-N | 120 | 001 | 13,67 | 0,39 | 07/06/2024 | 26/07/2024 | | | | | | | | | | | |
| 02 | 2"-AV-256-01CS-N | 121 | 001 | 7,37 | 0,10 | 07/06/2024 | 26/07/2024 | | | | | | | | | | | |
| 02 | 1"-N-257-03HSS-N | 122 | 001 | 33,98 | 44,12 | 07/06/2024 | 26/07/2024 | | | | | | | | | | | |
| 02 | 1"-N-257-03HSS-N | 122 | 002 | 42,47 | 1,33 | 07/06/2024 | 26/07/2024 | | | | | | | | | | | |
| 02 | 1"-WW-259-01CS-E | 123 | 001 | 4,37 | 12,42 | 07/06/2024 | 26/07/2024 | | | | | | | | | | | |
| 02 | 1"-WW-260-01CS-E | 124 | 001 | 7,88 | 21,47 | 07/06/2024 | 26/07/2024 | | | | | | | | | | | |
| 02 | 1"-VL-261-01HSS-N | 125 | 001 | 0,00 | 7,81 | 07/06/2024 | 26/07/2024 | | | | | | | | | | | |
| 02 | 1"-VL-261-01HSS-N | 125 | 002 | 0,00 | 7,81 | 07/06/2024 | 26/07/2024 | | | | | | | | | | | |
| 02 | 1"-N-262-01CS-N | 126 | 001 | 16,22 | 1,46 | 07/06/2024 | 26/07/2024 | | | | | | | | | | | |
| 02 | 11/2-IA-263-01SS-N | 127 | 001 | 15,87 | 0,77 | 07/06/2024 | 26/07/2024 | | | | | | | | | | | |
| 02 | 11/2-IA-263-01SS-N | 127 | 002 | 34,64 | 0,97 | 07/06/2024 | 26/07/2024 | | | | | | | | | | | |
| 02 | 12"-DR-264-01CS-N | 128 | 001 | 444,27 | 3,88 | 07/06/2024 | 26/07/2024 | | | | | | | | | | | |
| 02 | 12"-DR-264-01CS-N | 128 | 002 | 355,42 | 3,73 | 07/06/2024 | 26/07/2024 | | | | | | | | | | | |
| 02 | 10"-DR-265-01CS-N | 129 | 001 | 379,06 | 43,73 | 07/06/2024 | 26/07/2024 | | | | | | | | | | | |
| 02 | 10"-DR-265-01CS-N | 129 | 002 | 468,45 | 11,36 | 07/06/2024 | 26/07/2024 | | | | | | | | | | | |
| 02 | 8"-DR-266-01CS-N | 130 | 001 | 544,77 | 35,09 | 07/06/2024 | 26/07/2024 | | | | | | | | | | | |
| 02 | 4"-DR-267-01CS-N | 131 | 001 | 166,67 | 11,05 | 07/06/2024 | 26/07/2024 | | | | | | | | | | | |
| 02 | 4"-DR-268-01CS-N | 132 | 001 | 148,82 | 11,05 | 07/06/2024 | 26/07/2024 | | | | | | | | | | | |
| 02 | 3"-DR-269-01CS-N | 133 | 001 | 13,42 | 0,00 | 07/06/2024 | 26/07/2024 | | | | | | | | | | | |
| 02 | 3"-DR-270-01CS-N | 134 | 001 | 14,11 | 0,00 | 07/06/2024 | 26/07/2024 | | | | | | | | | | | |
| 02 | 3"-DR-271-01CS-N | 135 | 001 | 13,42 | 0,00 | 07/06/2024 | 26/07/2024 | | | | | | | | | | | |
| 02 | 3"-DR-272-01CS-N | 136 | 001 | 14,11 | 0,00 | 07/06/2024 | 26/07/2024 | | | | | | | | | | | |
| 02 | 3"-DR-273-01CS-N | 137 | 001 | 168,29 | 2,20 | 07/06/2024 | 26/07/2024 | | | | | | | | | | | |
| 02 | 3"-DR-274-01CS-N | 138 | 001 | 30,93 | 0,00 | 07/06/2024 | 26/07/2024 | | | | | | | | | | | |
| 02 | 3"-DR-275-01CS-N | 139 | 001 | 25,23 | 0,00 | 07/06/2024 | 26/07/2024 | | | | | | | | | | | |
| 02 | 3"-DR-276-01CS-N | 140 | 001 | 31,44 | 0,00 | 07/06/2024 | 26/07/2024 | | | | | | | | | | | |

CROSSWIND

**HOLLANDSE KUST NOORD WIND PARK Project**
**Contract No. CW-I-WP4-2023-05**

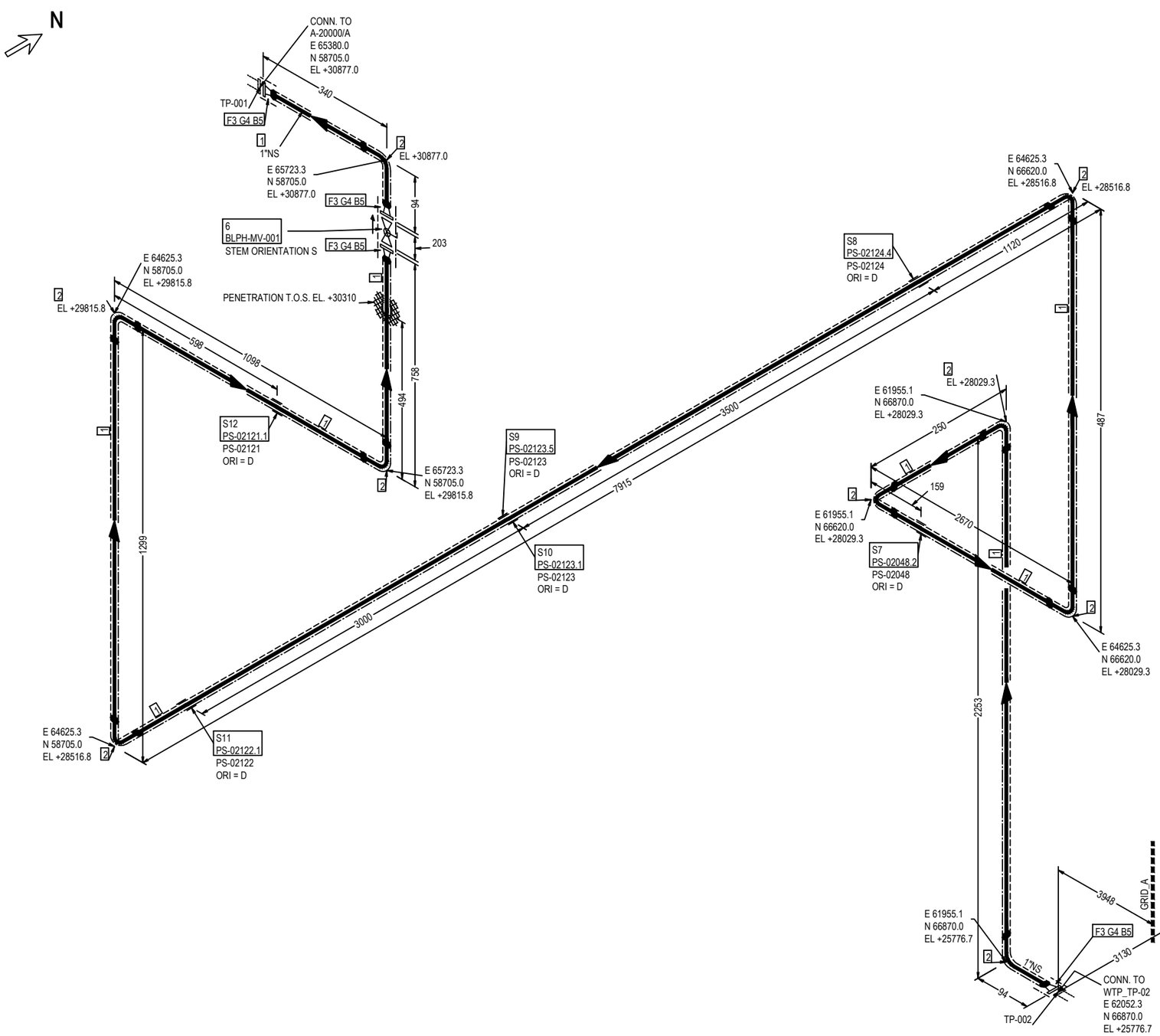
**ISOMETRICS DRAWING & LIST**

ROSETTI MARINO

Document Reference:
**123A90-DDL-PP-DI-71000**
Date: 15/12/2025
Rev. 03



| LINE DATA | | | | | | ISOMETRIC REVISION | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| N° OF ISSUE | LINE NUMBER | ISOMETRIC DRAWING NUMBER | SHEET PROGRESSIVE NUMBER | FABRICATION WEIGHT | ERECTION WEIGHT | ISOMETRIC REV, | ISOMETRIC REV, | ISOMETRIC REV, | ISOMETRIC REV, | ISOMETRIC REV, | ISOMETRIC REV, | ISOMETRIC REV, | ISOMETRIC REV, | ISOMETRIC REV, | ISOMETRIC REV, | ISOMETRIC REV, | ISOMETRIC REV, | NOTE |
| | | | 193 | 10872,61 | 8729,81 | 00 | 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 10 | VOID | |
| 02 | 3"-DR-277-01CS-N | 141 | 001 | 25,67 | 0,00 | 07/06/2024 | 26/07/2024 | | | | | | | | | | | |
| 02 | 3"-DR-278-01CS-N | 142 | 001 | 31,95 | 0,00 | 07/06/2024 | 26/07/2024 | | | | | | | | | | | |
| 02 | 3"-DR-279-01CS-N | 143 | 001 | 67,24 | 0,55 | 07/06/2024 | 26/07/2024 | | | | | | | | | | | |
| 02 | 3"-DR-280-01CS-N | 144 | 001 | 31,03 | 0,00 | 07/06/2024 | 26/07/2024 | | | | | | | | | | | |
| 02 | 3"-DR-281-01CS-N | 145 | 001 | 17,81 | 0,00 | 07/06/2024 | 26/07/2024 | | | | | | | | | | | |
| 02 | 3"-DR-282-01CS-N | 146 | 001 | 27,00 | 0,00 | 07/06/2024 | 26/07/2024 | | | | | | | | | | | |
| 02 | 3"-DR-283-01CS-N | 147 | 001 | 37,40 | 0,55 | 07/06/2024 | 26/07/2024 | | | | | | | | | | | |
| 02 | 3"-DR-284-01CS-N | 148 | 001 | 29,25 | 0,00 | 07/06/2024 | 26/07/2024 | | | | | | | | | | | |
| 02 | 3"-DR-285-01CS-N | 149 | 001 | 16,61 | 0,00 | 07/06/2024 | 26/07/2024 | | | | | | | | | | | |
| 01 | 1"-SWS-286-01SD-E | 150 | 001 | 4,95 | 29,17 | 26/07/2024 | | | | | | | | | | | | |
| 01 | 2"-SWR-287-01SD-N | 151 | 001 | 11,89 | 1,79 | 26/07/2024 | | | | | | | | | | | | |
| 01 | 1"-SWS-288-01SD-E | 152 | 001 | 4,95 | 28,49 | 26/07/2024 | | | | | | | | | | | | |
| 01 | 2"-SWR-289-01SD-N | 153 | 001 | 11,89 | 1,79 | 26/07/2024 | | | | | | | | | | | | |
| 01 | 1"-SWS-290-01SD-E | 154 | 001 | 5,48 | 31,48 | 26/07/2024 | | | | | | | | | | | | |
| 01 | 2"-SWR-291-01SD-N | 155 | 001 | 12,28 | 1,79 | 26/07/2024 | | | | | | | | | | | | |
| 01 | 1"-WW-292-01CS-H | 156 | 001 | 6,53 | 16,39 | 26/07/2024 | | | | | | | | | | | | |
| 01 | 1"-VL-293-01HSS-N | 157 | 001 | 7,95 | 0,73 | 12/07/2024 | | | | | | | | | | | | |
| 01 | 1"-AV-294-01CS-N | 158 | 001 | 20,24 | 0,46 | 26/07/2024 | | | | | | | | | | | | |




## FABRICATION MATERIALS

| PT NO | COMPONENT DESCRIPTION | N.S. | ITEM CODE | Q.TY | WEIGHT |
|---|---|---|---|---|---|
| 1 | Pipe ASME B36.19M PE 3,38 SML ASTM A312 Gr.TP316/316L | 1 | PIPESS00480100 | 16350MM | 40.88 |
| 2 | 90 Deg Elbow Long Radius ASME B16.9 BW 3,38 WRS ASTM A403 Gr.WP316/316L | 1 | E90RSS00670100 | 9 | 1.26 |
| 3 | Flange WN ASME B16.5 150LB RF 3,38 FRG ASTM A182 Gr.F316/316L | 1 | FLW0SS00930100 | 4 | 5.68 |
| | | | TOTAL FABRICATION WEIGHT | | 47.82 |

## ERECTION MATERIALS

| PT NO | COMPONENT DESCRIPTION | N.S. | ITEM CODE | Q.TY | WEIGHT |
|---|---|---|---|---|---|
| 4 | Gasket Spiral Wound Thk. 3.2 mm ASME B16.20 150LB RF GSK AISI 316 + GRAPHITE c/w INNER RING | 1 | GSW0GK11100100 | 4 | 0.24 |
| 5 | 65 Stud Bolt + 2 Heavy Nuts ASME B1.1 ASTM A193 Gr.B7 - A194 Gr.2H Hot dip galvanized | 1/2 | SB20BO01080200 | 16 | 1.92 |
| 6 | Block & Bleed Valve API 6D FLG 150LB RF BS01C01RFS | 1 | VLBLNN01410100 | 1 | 12.50 |
| | SUPPORTS | | | | |
| 7 | /PS-02048.2 | 1 | | 1 | 2.31 |
| 8 | /PS-02124.4 | 1 | | 1 | 2.31 |
| 9 | /PS-02123.5 | 1 | | 1 | 1.53 |
| 10 | /PS-02123.1 | 1 | | 1 | 2.31 |
| 11 | /PS-02122.1 | 1 | | 1 | 2.31 |
| 12 | /PS-02121.1 | 1 | | 1 | 2.31 |
| | | | TOTAL ERECTION WEIGHT | | 27.74 |
| | | | TOTAL WEIGHT | | 75.56 |

| REFERENCE DOCUMENTS | |
|---|---|
| 123A90-DDL-PP-RE-70001 | STRESS ANALYSIS REPORT |
| 123A90-DDL-PR-PID-80024 | P&ID |
| 123A90-DDL-MAT-SP-60003 | INSULATION SPECIFICATION |
| 123A90-DDL-MAT-SP-60006 | COATING & PAINTING SPEC. |
| 123A90-DDL-PP-00-72000 | PIPING SUPPORT BOOK |
| 123A90-DDL-PP-SP-70029 | PIPING MATERIAL CLASS |

SYMBOLS LEGEND:
BUTT WELD, THREADED, HEAT TRACING, SOCKET, PIPE SUPPORT, INSULATED

| NDT EXAMINATION | | | |
|---|---|---|---|
| NDT TYPE | % | NDT TYPE | % |
| RT | 10 | VT | 100 |
| INSPECTION CATEGORY | 2 | MT/PT | 10 |
| TESTING | | | |
| TEST FLUID | | TEST PRESS. (barg) | |
| Water | | 9.00 | |
| PROCESS LINE DATA | | | |
| DESIGN TEMP. (°C) | | DESIGN PRESS. (barg) | |
| -29 | 100 | | 6 |

| INSULATION & PAINTING | | |
|---|---|---|
| INS. TYPE | INS. THK. | INS. SURF. (m²) |
| H | 20mm | 4.53 |
| PAINT SYS. | BASE RAL | PAINT. SURF. (m²) |
| 6C | N/A | 1.80 |
| HEAT TRACING | | |
| YES | | |
| LINE DATA | | |
| STRESS SYS. | PED CAT. | PWHT |
| - | Art. 4, par. 3 | No |

| Revision Number | Date | Description | Prepared by | Checked by | Approved by |
|---|---|---|---|---|---|
| 02 | 29/09/25 | AS-BUILT (ASB) | SPS | CBO | CGI |
| 01 | 26/07/24 | ACCEPTED FOR CONSTRUCTION | MMA | CBO | DLO |
| 00 | 07/06/24 | ISSUE FOR REVIEW | MMA | CBO | DLO |

ROSETTI MARINO

CROSSWIND

DWG TYTLE:

# 1"-DM-001-01SS-E

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK

SCALE N.A.

DRAWN SPS | CHECKED CBO | APPROVED CGI | DATE 29/09/25

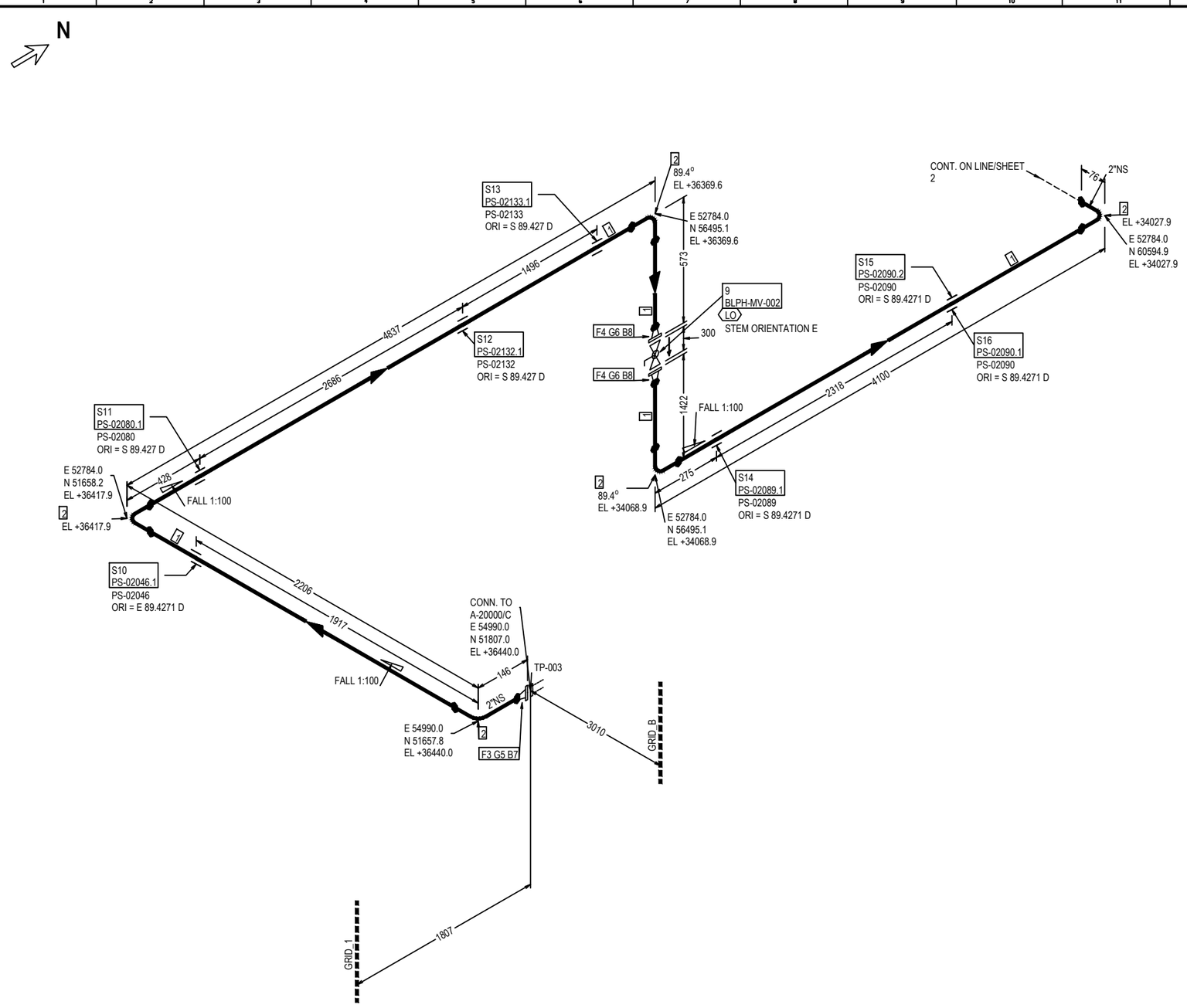
SIZE: A3

DRAWING NO. 123A90-DDL-PP-DI-71000_001

SHEET 1/1

REV. 02

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FABRICATION MATERIALS

| PT NO | COMPONENT DESCRIPTION | N.S. | ITEM CODE | Q.TY | WEIGHT |
|---|---|---|---|---|---|
| 1 | Pipe ASME B36.19M PE 2,77 SML ASTM A312 Gr.TP316/316L | 2 | PIPESS00540200 | 12405MM | 49.62 |
| 2 | 90 Deg Elbow Long Radius ASME B16.9 BW 2,77 WRS ASTM A403 Gr.WP316/316L | 2 | E90RSS00010200 | 5 | 2.35 |
| 3 | Flange WN ASME B16.5 300LB RF 2,77 FRG ASTM A182 Gr.F316/316L | 2 | FLW0SS00180200 | 1 | 4.16 |
| 4 | Flange WN ASME B16.5 150LB RF 2,77 FRG ASTM A182 Gr.F316/316L | 2 | FLW0SS00010200 | 2 | 5.48 |
| | | | TOTAL FABRICATION WEIGHT | | 61.61 |

ERECTION MATERIALS

| PT NO | COMPONENT DESCRIPTION | N.S. | ITEM CODE | Q.TY | WEIGHT |
|---|---|---|---|---|---|
| 5 | Gasket Spiral Wound Thk. 3.2 mm ASME B16.20 300LB RF GSK AISI 316 + GRAPHITE c/w INNER RING | 2 | GSW0GK11230200 | 1 | 0.13 |
| 6 | Gasket Spiral Wound Thk. 3.2 mm ASME B16.20 150LB RF GSK AISI 316 + GRAPHITE c/w INNER RING | 2 | GSW0GK11130200 | 2 | 0.20 |
| 7 | 90 Stud Bolt + 2 Heavy Nuts ASME B1.1 ASTM A193 Gr.B7 - A194 Gr.2H Hot dip galvanized | 5/8 | SB20BO04190300 | 8 | 2.00 |
| 8 | 85 Stud Bolt + 2 Heavy Nuts ASME B1.1 ASTM A193 Gr.B7 - A194 Gr.2H Hot dip galvanized | 5/8 | SB20BO00660300 | 8 | 1.92 |
| 9 | Block & Bleed Valve API 6D FLG 150LB RF BA01C01RFHS | 2 | VLBLNN01430200 | 1 | 31.50 |
| | SUPPORTS | | | | |
| 10 | /PS-02046.1 | 2 | | 1 | 0.02 |
| 11 | /PS-02080.1 | 2 | | 1 | 0.02 |
| 12 | /PS-02132.1 | 2 | | 1 | 0.33 |
| 13 | /PS-02133.1 | 2 | | 1 | 0.02 |
| 14 | /PS-02089.1 | 2 | | 1 | 3.66 |
| 15 | /PS-02090.2 | 2 | | 1 | 0.71 |
| 16 | /PS-02090.1 | 2 | | 1 | 3.66 |
| | | | TOTAL ERECTION WEIGHT | | 44.17 |
| | | | TOTAL WEIGHT | | 107.78 |

| REFERENCE DOCUMENTS | |
|---|---|
| 123A90-DDL-PP-RE-70001 | STRESS ANALYSIS REPORT |
| 123A90-DDL-PR-PID-80011 | P&ID |
| 123A90-DDL-MAT-SP-60003 | INSULATION SPECIFICATION |
| 123A90-DDL-MAT-SP-60006 | COATING & PAINTING SPEC. |
| 123A90-DDL-PP-00-72000 | PIPING SUPPORT BOOK |
| 123A90-DDL-PP-SP-70029 | PIPING MATERIAL CLASS |

SYMBOLS LEGEND:
BUTT WELD — THREADED — HEAT TRACING
SOCKET — PIPE SUPPORT — INSULATED

| NDT EXAMINATION | | | |
|---|---|---|---|
| NDT TYPE | % | NDT TYPE | % |
| RT | 100 | VT | 100 |
| INSPECTION CATEGORY | 1 | MT/PT | 100Ratio |
| TESTING | | | |
| TEST FLUID | | TEST PRESS. [barg] | |
| Water | | 5.25 | |
| PROCESS LINE DATA | | | |
| DESIGN TEMP. [°C] | | DESIGN PRESS. [barg] | |
| -29 | 100 | | 3.5 |

| INSULATION & PAINTING | | |
|---|---|---|
| INS. TYPE | INS. THK. | INS. SURF. [m²] |
| N | | |
| PAINT SYS. | BASE RAL | PAINT. SURF. [m²] |
| 6A | RAL 9002 | 4.75 |
| HEAT TRACING | | |
| - | | |
| LINE DATA | | |
| STRESS SYS. | PED CAT. | PWHT |
| - | I | No |

| Revision Number | Date | Description | Prepared by | Checked by | Approved by |
|---|---|---|---|---|---|
| 02 | 29/09/25 | AS-BUILT (ASB) | SPS | CBO | CGI |
| 01 | 12/07/24 | ACCEPTED FOR CONSTRUCTION | MMA | CBO | DLO |
| 00 | 07/06/24 | ISSUE FOR REVIEW | MMA | CBO | DLO |

ROSETTI MARINO

CROSSWIND

DWG TYTLE:

# 2"-VL-003-01HSS-N

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK

SCALE N.A.

DRAWN SPS | CHECKED CBO | APPROVED CGI | DATE 29/09/25

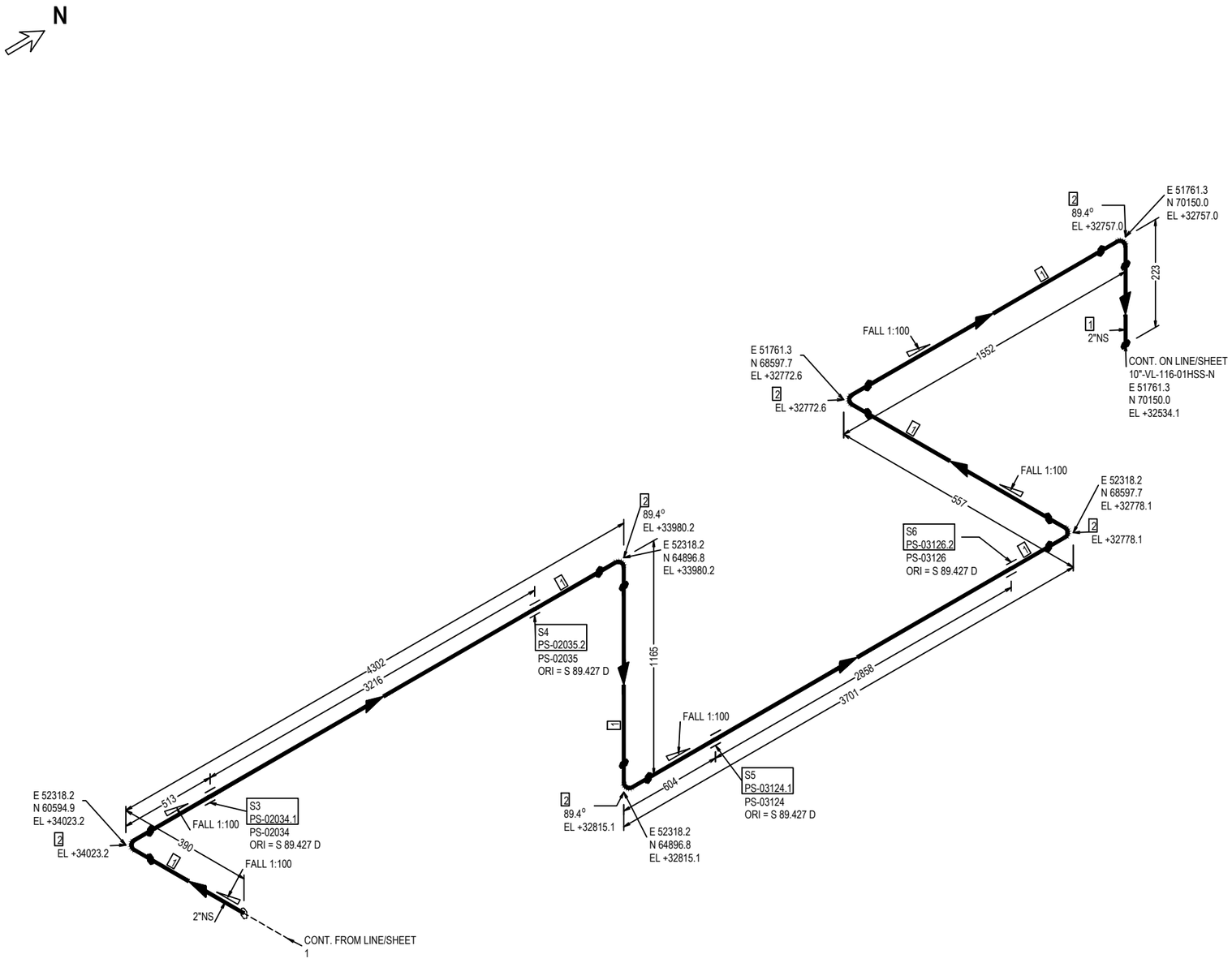
SIZE: A3

DRAWING NO. 123A90-DDL-PP-DI-71000_002

SHEET 1/2

REV. 02

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FABRICATION MATERIALS

| PT NO | COMPONENT DESCRIPTION | N.S. | ITEM CODE | Q.TY | WEIGHT |
|---|---|---|---|---|---|
| 1 | Pipe ASME B36.19M PE 2,77 SML ASTM A312 Gr.TP316/316L | 2 | PIPESS00540200 | 10981MM | 43.92 |
| 2 | 90 Deg Elbow Long Radius ASME B16.9 BW 2,77 WRS ASTM A403 Gr.WP316/316L | 2 | E90RSS00010200 | 6 | 2.82 |
| | | | TOTAL FABRICATION WEIGHT | | 46.74 |

ERECTION MATERIALS

| PT NO | COMPONENT DESCRIPTION | N.S. | ITEM CODE | Q.TY | WEIGHT |
|---|---|---|---|---|---|
| | SUPPORTS | | | | |
| 3 | /PS-02034.1 | 2 | | 1 | 0.03 |
| 4 | /PS-02035.2 | 2 | | 1 | 0.02 |
| 5 | /PS-03124.1 | 2 | | 1 | 0.03 |
| 6 | /PS-03126.2 | 2 | | 1 | 0.03 |
| | | | TOTAL ERECTION WEIGHT | | 0.11 |
| | | | TOTAL WEIGHT | | 46.85 |

| REFERENCE DOCUMENTS | |
|---|---|
| 123A90-DDL-PP-RE-70001 | STRESS ANALYSIS REPORT |
| 123A90-DDL-PR-PID-80011 | P&ID |
| 123A90-DDL-MAT-SP-60003 | INSULATION SPECIFICATION |
| 123A90-DDL-MAT-SP-60006 | COATING & PAINTING SPEC. |
| 123A90-DDL-PP-00-72000 | PIPING SUPPORT BOOK |
| 123A90-DDL-PP-SP-70029 | PIPING MATERIAL CLASS |

SYMBOLS LEGEND:
BUTT WELD · THREADED · HEAT TRACING · SOCKET · PIPE SUPPORT · INSULATED

| NDT EXAMINATION | | | |
|---|---|---|---|
| NDT TYPE | % | NDT TYPE | % |
| RT | 100 | VT | 100 |
| INSPECTION CATEGORY | 1 | MT/PT | 100Ratio |
| TESTING | | | |
| TEST FLUID | | TEST PRESS. (barg) | |
| Water | | 5.25 | |
| PROCESS LINE DATA | | | |
| DESIGN TEMP. (°C) | | DESIGN PRESS. (barg) | |
| -29 | 100 | | 3.5 |

| INSULATION & PAINTING | | |
|---|---|---|
| INS. TYPE | INS. THK. | INS. SURF. (m²) |
| N | | |
| PAINT SYS. | BASE RAL | PAINT. SURF. (m²) |
| 6A | RAL 9002 | SEE Sh1 |
| HEAT TRACING | | |
| - | | |
| LINE DATA | | |
| STRESS SYS. | PED CAT. | PWHT |
| - | I | No |

| Revision Number | Date | Description | Prepared by | Checked by | Approved by |
|---|---|---|---|---|---|
| 02 | 29/09/25 | AS-BUILT (ASB) | SPS | CBO | CGI |
| 01 | 12/07/24 | ACCEPTED FOR CONSTRUCTION | MMA | CBO | DLO |
| 00 | 07/06/24 | ISSUE FOR REVIEW | MMA | CBO | DLO |

ROSETTI MARINO

CROSSWIND

DWG TYTLE:

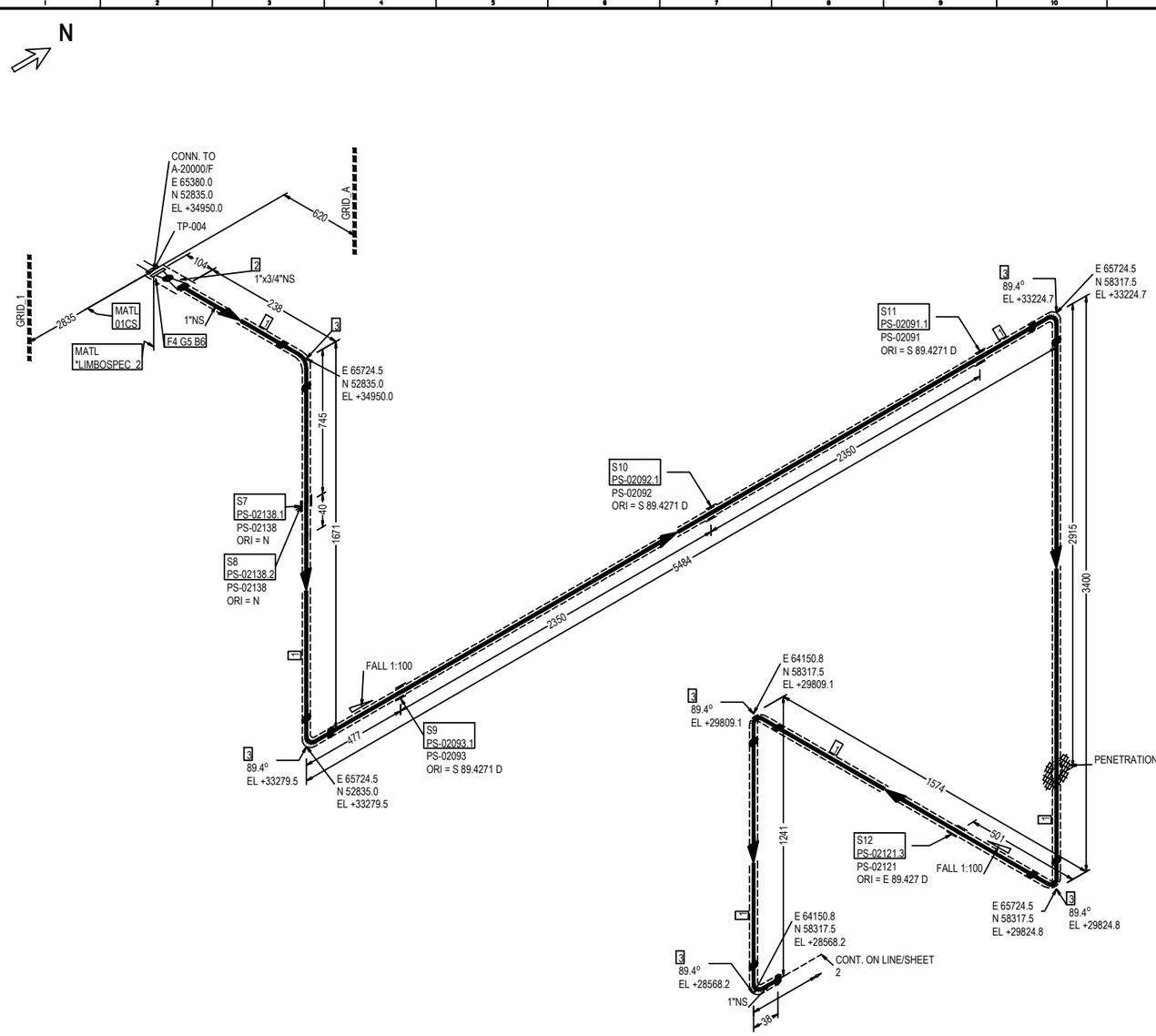
# 2"-VL-003-01HSS-N

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK | SCALE N.A.

DRAWN SPS | CHECKED CBO | APPROVED CGI | DATE 29/09/25

SIZE: A3 | DRAWING NO. 123A90-DDL-PP-DI-71000_002 | SHEET 2/2 | REV. 02

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FABRICATION MATERIALS

| PT NO | COMPONENT DESCRIPTION | N.S. | ITEM CODE | Q.TY | WEIGHT |
|---|---|---|---|---|---|
| 1 | Pipe ASME B36.10M PE 4,55 SML ASTM/ASME A/SA333 Gr.6 | 1 | PIPECS08300100 | 13191MM | 42.21 |
| 2 | Reducer Concentric ASME B16.9 BW 4,55x3,91 WRS ASTM/ASME A/SA420 Gr.WPL6 | 1 x 3/4 | REC0CS2203013Q | 1 | 0.18 |
| 3 | 90 Deg Elbow Long Radius ASME B16.9 BW 4,55 WRS ASTM/ASME A/SA420 Gr.WPL6 | 1 | E90RCS01780100 | 6 | 1.08 |
| 4 | Flange WN ASME B16.5 150LB RF 3,91 FRG ASTM/ASME A/SA350 Gr.LF2 | 3/4 | FLW0CS16523Q00 | 1 | 0.90 |
| | | | TOTAL FABRICATION WEIGHT | | 44.37 |

ERECTION MATERIALS

| PT NO | COMPONENT DESCRIPTION | N.S. | ITEM CODE | Q.TY | WEIGHT |
|---|---|---|---|---|---|
| 5 | Insulation Kit Ends as per ASME B16.5 150LB RF | 3/4 | SPIKNN01213Q00 | 1 | 0.04 |
| 6 | 80 Stud Bolt + 2 Heavy Nuts ASME B1.1 ASTM A193 Gr.B7 - A194 Gr.2H Hot dip galvanized | 1/2 | SB20BO00650200 | 4 | 0.56 |
| | SUPPORTS | | | | |
| 7 | /PS-02138.1 | 1 | | 1 | 2.31 |
| 8 | /PS-02138.2 | 1 | | 1 | 0.69 |
| 9 | /PS-02093.1 | 1 | | 1 | 2.36 |
| 10 | /PS-02092.1 | 1 | | 1 | 2.16 |
| 11 | /PS-02091.1 | 1 | | 1 | 1.98 |
| 12 | /PS-02121.3 | 1 | | 1 | 2.35 |
| | | | TOTAL ERECTION WEIGHT | | 12.45 |
| | | | TOTAL WEIGHT | | 56.82 |

| REFERENCE DOCUMENTS | |
|---|---|
| 123A90-DDL-PP-RE-70001 | STRESS ANALYSIS REPORT |
| 123A90-DDL-PR-PID-80011 | P&ID |
| 123A90-DDL-MAT-SP-60003 | INSULATION SPECIFICATION |
| 123A90-DDL-MAT-SP-60006 | COATING & PAINTING SPEC. |
| 123A90-DDL-PP-00-72000 | PIPING SUPPORT BOOK |
| 123A90-DDL-PP-SP-70029 | PIPING MATERIAL CLASS |

SYMBOLS LEGEND:
BUTT WELD · THREADED · HEAT TRACING · SOCKET · PIPE SUPPORT · INSULATED

| NDT EXAMINATION | | | |
|---|---|---|---|
| NDT TYPE | % | NDT TYPE | % |
| RT | 10 | VT | 100 |
| INSPECTION CATEGORY | 2 | MT/PT | 10 |
| TESTING | | | |
| TEST FLUID | | TEST PRESS.(barg) | |
| Water | | 5.25 | |

| PROCESS LINE DATA | | | |
|---|---|---|---|
| DESIGN TEMP. (°C) | | DESIGN PRESS.(barg) | |
| -46 | 100 | | 3.5 |

| INSULATION & PAINTING | | |
|---|---|---|
| INS. TYPE | INS. THK. | INS. SURF. (m²) |
| H | 20mm | 10.65 |
| PAINT SYS. | BASE RAL | PAINT. SURF. (m²) |
| 9 | N/A | 4.23 |
| HEAT TRACING | | |
| - | | |

| LINE DATA | | |
|---|---|---|
| STRESS SYS. | PED CAT. | PWHT |
| - | Art. 4, par. 3 | No |

| Revision Number | Date | Description | Prepared by | Checked by | Approved by |
|---|---|---|---|---|---|
| 02 | 29/09/25 | AS-BUILT (ASB) | SPS | CBO | CGI |
| 01 | 26/07/24 | ACCEPTED FOR CONSTRUCTION | MMA | CBO | DLO |
| 00 | 07/06/24 | ISSUE FOR REVIEW | MMA | CBO | DLO |

ROSETTI MARINO

CROSSWIND

DWG TYTLE:

# 1"-WW-004-01CS-H

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK

SCALE N.A.

DRAWN SPS | CHECKED CBO | APPROVED CGI | DATE 29/09/25

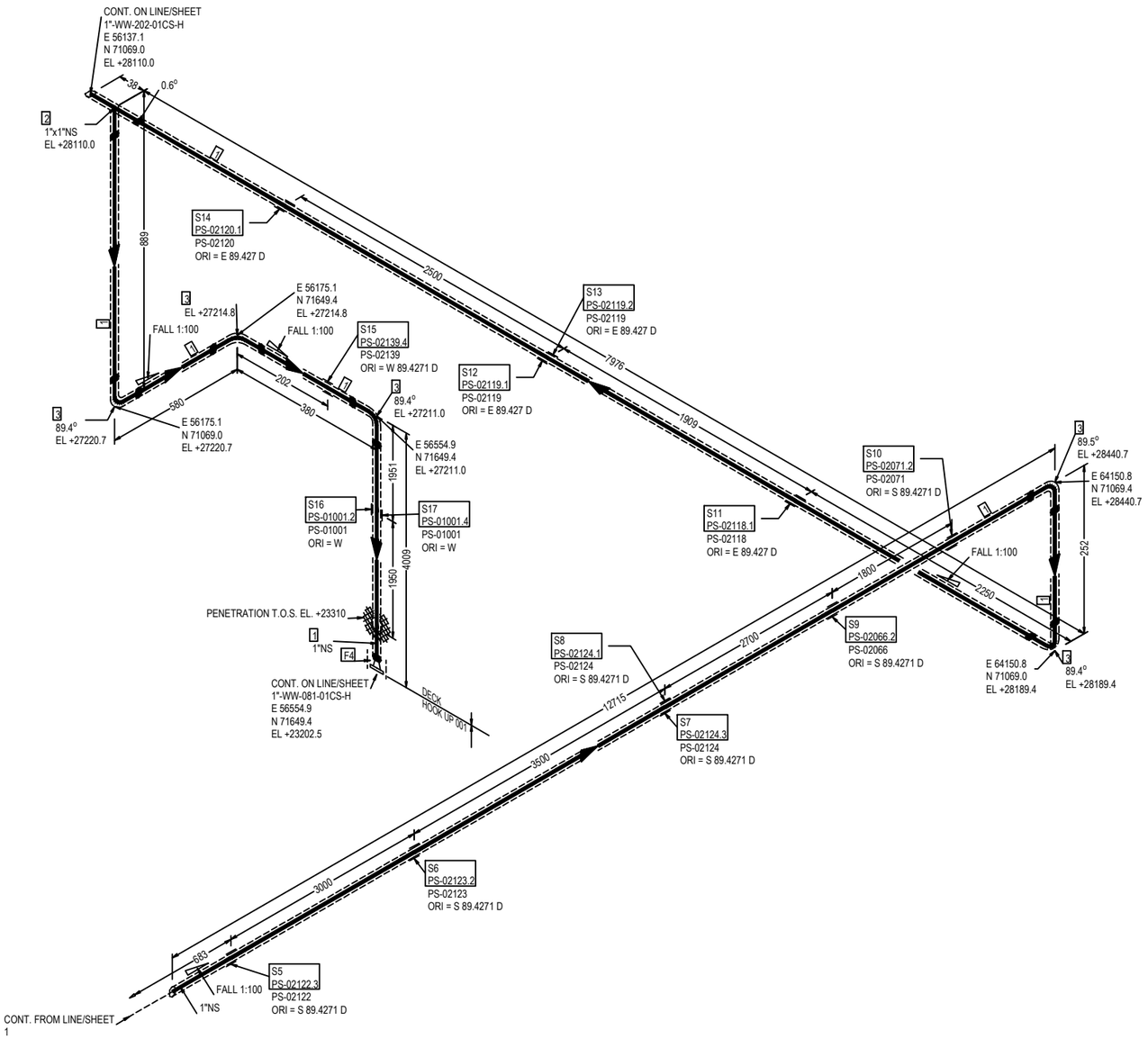
SIZE: A3

DRAWING NO. 123A90-DDL-PP-DI-71000_003

SHEET 1/2

REV. 02

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FABRICATION MATERIALS

| PT NO | COMPONENT DESCRIPTION | N.S. | ITEM CODE | Q.TY | WEIGHT |
|---|---|---|---|---|---|
| 1 | Pipe ASME B36.10M PE 4,55 SML ASTM/ASME A/SA333 Gr.6 | 1 | PIPECS08300100 | 26291MM | 84.13 |
| 2 | Tee ASME B16.9 BW 4,55 WRS ASTM/ASME A/SA420 Gr.WPL6 | 1 x 1 | TEE0CS01110100 | 1 | 0.46 |
| 3 | 90 Deg Elbow Long Radius ASME B16.9 BW 4,55 WRS ASTM/ASME A/SA420 Gr.WPL6 | 1 | E90RCS01780100 | 5 | 0.90 |
| 4 | Flange WN ASME B16.5 150LB RF 4,55 FRG ASTM/ASME A/SA350 Gr.LF2 | 1 | FLW0CS16540100 | 1 | 1.40 |
| | | | TOTAL FABRICATION WEIGHT | | 86.89 |

ERECTION MATERIALS

| PT NO | COMPONENT DESCRIPTION | N.S. | ITEM CODE | Q.TY | WEIGHT |
|---|---|---|---|---|---|
| | SUPPORTS | | | | |
| 5 | /PS-02122.3 | 1 | | 1 | 2.35 |
| 6 | /PS-02123.2 | 1 | | 1 | 2.35 |
| 7 | /PS-02124.3 | 1 | | 1 | 1.53 |
| 8 | /PS-02124.1 | 1 | | 1 | 2.35 |
| 9 | /PS-02066.2 | 1 | | 1 | 2.35 |
| 10 | /PS-02071.2 | 1 | | 1 | 2.35 |
| 11 | /PS-02118.1 | 1 | | 1 | 2.35 |
| 12 | /PS-02119.1 | 1 | | 1 | 2.35 |
| 13 | /PS-02119.2 | 1 | | 1 | 1.37 |
| 14 | /PS-02120.1 | 1 | | 1 | 2.35 |
| 15 | /PS-02139.4 | 1 | | 1 | 2.35 |
| 16 | /PS-01001.2 | 1 | | 1 | 2.31 |
| 17 | /PS-01001.4 | 1 | | 1 | 0.20 |
| | | | TOTAL ERECTION WEIGHT | | 26.56 |
| | | | TOTAL WEIGHT | | 113.45 |

| REFERENCE DOCUMENTS | |
|---|---|
| 123A90-DDL-PP-RE-70001 | STRESS ANALYSIS REPORT |
| 123A90-DDL-PR-PID-80011 | P&ID |
| 123A90-DDL-MAT-SP-60003 | INSULATION SPECIFICATION |
| 123A90-DDL-MAT-SP-60006 | COATING & PAINTING SPEC. |
| 123A90-DDL-PP-00-72000 | PIPING SUPPORT BOOK |
| 123A90-DDL-PP-SP-70029 | PIPING MATERIAL CLASS |

SYMBOLS LEGEND:
BUTT WELD · THREADED · HEAT TRACING · SOCKET · PIPE SUPPORT · INSULATED

| NDT EXAMINATION | | | |
|---|---|---|---|
| NDT TYPE | % | NDT TYPE | % |
| RT | 10 | VT | 100 |
| INSPECTION CATEGORY | 2 | MT/PT | 10 |
| TESTING | | | |
| TEST FLUID | | TEST PRESS. (barg) | |
| Water | | 5.25 | |
| PROCESS LINE DATA | | | |
| DESIGN TEMP. (°C) | | DESIGN PRESS. (barg) | |
| -46 | 100 | | 3.5 |

| INSULATION & PAINTING | | |
|---|---|---|
| INS. TYPE | INS. THK. | INS. SURF. (m²) |
| H | 20mm | SEE Sh1 |
| PAINT SYS. | BASE RAL | PAINT. SURF. (m²) |
| 9 | N/A | SEE Sh1 |
| HEAT TRACING | | |
| - | | |
| LINE DATA | | |
| STRESS SYS. | PED CAT. | PWHT |
| - | Art. 4, par. 3 | No |

| Revision Number | Date | Description | Prepared by | Checked by | Approved by |
|---|---|---|---|---|---|
| 02 | 29/09/25 | AS-BUILT (ASB) | SPS | CBO | CGI |
| 01 | 26/07/24 | ACCEPTED FOR CONSTRUCTION | MMA | CBO | DLO |
| 00 | 07/06/24 | ISSUE FOR REVIEW | MMA | CBO | DLO |

ROSETTI MARINO

# CROSSWIND

DWG TYTLE:

## 1"-WW-004-01CS-H

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK

SCALE N.A.

DRAWN SPS | CHECKED CBO | APPROVED CGI | DATE 29/09/25

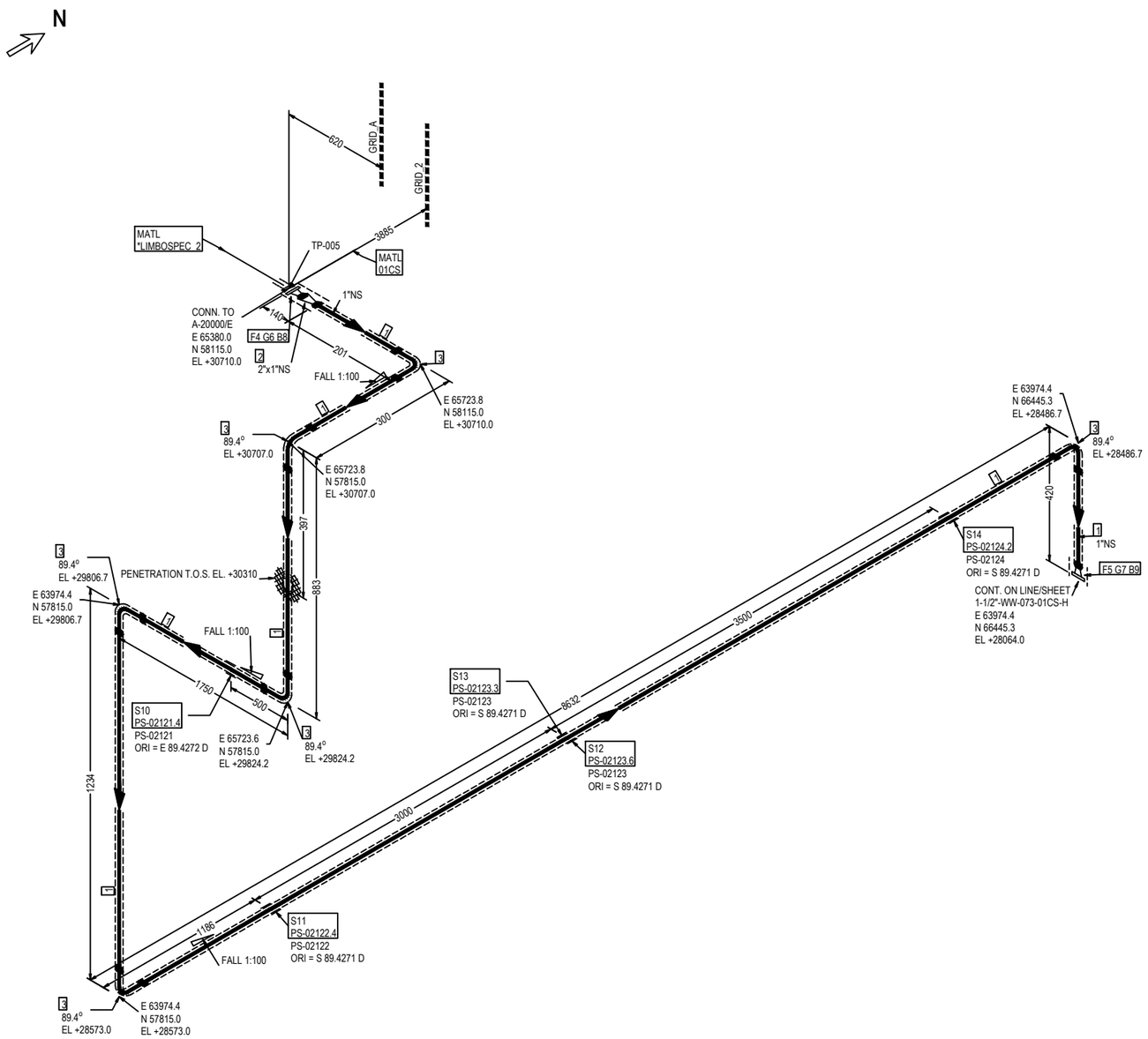
SIZE: A3

DRAWING NO. 123A90-DDL-PP-DI-71000_003

SHEET 2/2

REV. 02

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FABRICATION MATERIALS

| PT NO | COMPONENT DESCRIPTION | N.S. | ITEM CODE | Q.TY | WEIGHT |
|---|---|---|---|---|---|
| 1 | Pipe ASME B36.10M PE 4,55 SML ASTM/ASME A/SA333 Gr.6 | 1 | PIPECS08300100 | 12909MM | 41.31 |
| 2 | Reducer Concentric ASME B16.9 BW 5,54x4,55 WRS ASTM/ASME A/SA420 Gr.WPL6 | 2 x 1 | REC0CS16210201 | 1 | 0.61 |
| 3 | 90 Deg Elbow Long Radius ASME B16.9 BW 4,55 WRS ASTM/ASME A/SA420 Gr.WPL6 | 1 | E90RCS01780100 | 6 | 1.08 |
| 4 | Flange WN ASME B16.5 150LB RF 5,54 FRG ASTM/ASME A/SA350 Gr.LF2 | 2 | FLW0CS02210200 | 1 | 2.70 |
| 5 | Flange WN ASME B16.5 150LB RF 4,55 FRG ASTM/ASME A/SA350 Gr.LF2 | 1 | FLW0CS16540100 | 1 | 1.40 |
| | | | TOTAL FABRICATION WEIGHT | | 47.10 |

ERECTION MATERIALS

| PT NO | COMPONENT DESCRIPTION | N.S. | ITEM CODE | Q.TY | WEIGHT |
|---|---|---|---|---|---|
| 6 | Insulation Kit Ends as per ASME B16.5 150LB RF | 2 | SPIKNN00560200 | 1 | 0.10 |
| 7 | Gasket Spiral Wound Thk. 3.2 mm ASME B16.20 150LB RF GSK AISI 316 + GRAPHITE c/w INNER RING | 1 | GSW0GK11100100 | 1 | 0.06 |
| 8 | 100 Stud Bolt + 2 Heavy Nuts ASME B1.1 ASTM A193 Gr.B7 - A194 Gr.2H Hot dip galvanized | 5/8 | SB20BO00680300 | 4 | 1.04 |
| 9 | 65 Stud Bolt + 2 Heavy Nuts ASME B1.1 ASTM A193 Gr.B7 - A194 Gr.2H Hot dip galvanized | 1/2 | SB20BO01080200 | 4 | 0.00 |
| | SUPPORTS | | | | |
| 10 | /PS-02121.4 | 1 | | 1 | 2.35 |
| 11 | /PS-02122.4 | 1 | | 1 | 2.35 |
| 12 | /PS-02123.6 | 1 | | 1 | 1.53 |
| 13 | /PS-02123.3 | 1 | | 1 | 2.35 |
| 14 | /PS-02124.2 | 1 | | 1 | 2.35 |
| | | | TOTAL ERECTION WEIGHT | | 12.13 |
| | | | TOTAL WEIGHT | | 59.23 |

| REFERENCE DOCUMENTS | | NDT EXAMINATION | | | | INSULATION & PAINTING | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 123A90-DDL-PP-RE-70001 | STRESS ANALYSIS REPORT | NDT TYPE | % | NDT TYPE | % | INS. TYPE | INS. THK. | INS. SURF. (m²) | | | | | | |
| 123A90-DDL-PR-PID-80011 | P&ID | RT | 10 | VT | 100 | H | 20mm | 3.54 | | | | | | |
| 123A90-DDL-MAT-SP-60003 | INSULATION SPECIFICATION | INSPECTION CATEGORY | 2 | MT/PT | 10 | PAINT SYS. | BASE RAL | PAINT. SURF. (m²) | | | | | | |
| 123A90-DDL-MAT-SP-60006 | COATING & PAINTING SPEC. | TESTING | | | | 9 | N/A | 1.40 | | | | | | |
| 123A90-DDL-PP-00-72000 | PIPING SUPPORT BOOK | TEST FLUID | | TEST PRESS. (barg) | | HEAT TRACING | | | | | | | | |
| 123A90-DDL-PP-SP-70029 | PIPING MATERIAL CLASS | Water | | 9.00 | | - | | | 02 | 29/09/25 | AS-BUILT (ASB) | SPS | CBO | CGI |
| SYMBOLS LEGEND: | | PROCESS LINE DATA | | | | LINE DATA | | | 01 | 26/07/24 | ACCEPTED FOR CONSTRUCTION | MMA | CBO | DLO |
| BUTT WELD THREADED HEAT TRACING | | DESIGN TEMP. (°C) | | DESIGN PRESS. (barg) | | STRESS SYS. | PED CAT. | PWHT | 00 | 07/06/24 | ISSUE FOR REVIEW | MMA | CBO | DLO |
| SOCKET PIPE SUPPORT INSULATED | | -46 | 100 | | 6 | - | Art. 4, par. 3 | No | Revision Number | Date | Description | Prepared by | Checked by | Approved by |

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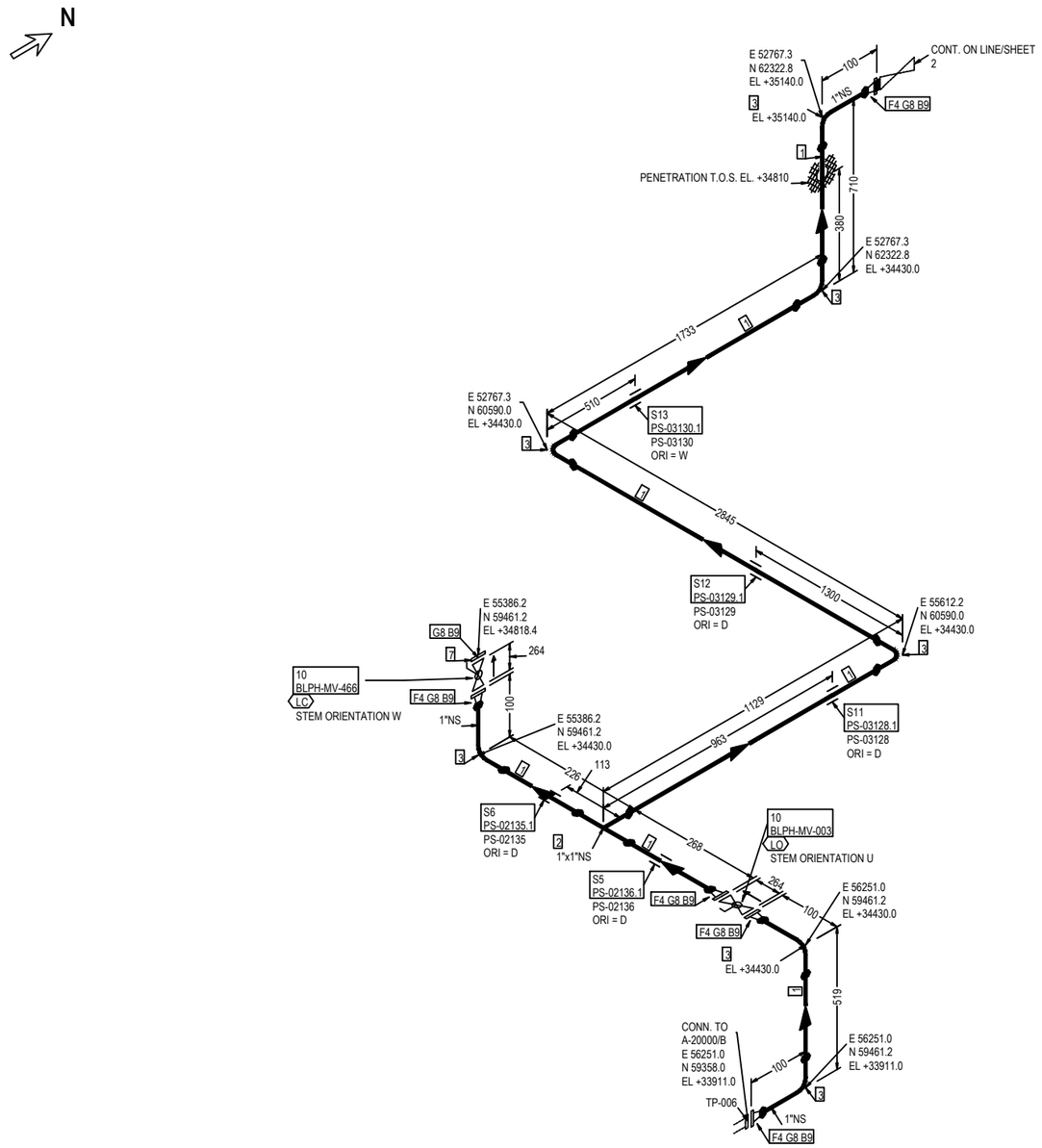
ROSETTI MARINO

CROSSWIND

DWG TYTLE:

# 1"-DM-005-01CS-H

| CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK | | | SCALE N.A. |
|---|---|---|---|
| DRAWN SPS | CHECKED CBO | APPROVED CGI | DATE 29/09/25 |
| SIZE: A3 | DRAWING NO. 123A90-DDL-PP-DI-71000_004 | SHEET 1 / 1 | REV. 02 |




FABRICATION MATERIALS

| PT NO | COMPONENT DESCRIPTION | N.S. | ITEM CODE | Q.TY | WEIGHT |
|---|---|---|---|---|---|
| 1 | Pipe ASME B36.19M PE 3,38 SML ASTM A312 Gr.TP316/316L | 1 | PIPESS00480100 | 6874MM | 17.18 |
| 2 | Tee ASME B16.9 BW 3,38 WRS ASTM A403 Gr.WP316/316L | 1 x 1 | TEE0SS00550100 | 1 | 0.34 |
| 3 | 90 Deg Elbow Long Radius ASME B16.9 BW 3,38 WRS ASTM A403 Gr.WP316/316L | 1 | E90RSS00670100 | 7 | 0.98 |
| 4 | Flange WN ASME B16.5 300LB RF 3,38 FRG ASTM A182 Gr.F316/316L | 1 | FLW0SS03270100 | 5 | 9.15 |
| | SUPPORTS | | | | |
| 5 | /PS-02136.1 | 1 | | 1 | 0.19 |
| 6 | /PS-02135.1 | 1 | | 1 | 0.19 |
| | | | TOTAL FABRICATION WEIGHT | | 28.03 |

ERECTION MATERIALS

| PT NO | COMPONENT DESCRIPTION | N.S. | ITEM CODE | Q.TY | WEIGHT |
|---|---|---|---|---|---|
| 7 | Flange Blind ASME B16.5 300LB RF FRG ASTM A182 Gr.F316/316L | 1 | FLB0SS01830100 | 1 | 1.83 |
| 8 | Gasket Spiral Wound Thk. 3.2 mm ASME B16.20 300LB RF GSK AISI 316 + GRAPHITE c/w INNER RING | 1 | GSW0GK11210100 | 6 | 0.42 |
| 9 | 80 Stud Bolt + 2 Heavy Nuts ASME B1.1 ASTM A193 Gr.B7 - A194 Gr.2H Hot dip galvanized | 5/8 | SB20BO01870300 | 24 | 5.52 |
| 10 | Double Block & Bleed Valve API 6D FLG 300LB RF DA03C01RFH | 1 | VLBBNN07190100 | 2 | 27.00 |
| | SUPPORTS | | | | |
| 11 | /PS-03128.1 | 1 | | 1 | 0.19 |
| 12 | /PS-03129.1 | 1 | | 1 | 0.19 |
| 13 | /PS-03130.1 | 1 | | 1 | 0.19 |
| | | | TOTAL ERECTION WEIGHT | | 35.34 |
| | | | TOTAL WEIGHT | | 63.37 |

| REFERENCE DOCUMENTS | |
|---|---|
| 123A90-DDL-PP-RE-70001 | STRESS ANALYSIS REPORT |
| 123A90-DDL-PR-PID-80011 | P&ID |
| 123A90-DDL-MAT-SP-60003 | INSULATION SPECIFICATION |
| 123A90-DDL-MAT-SP-60006 | COATING & PAINTING SPEC. |
| 123A90-DDL-PP-00-72000 | PIPING SUPPORT BOOK |
| 123A90-DDL-PP-SP-70029 | PIPING MATERIAL CLASS |

SYMBOLS LEGEND:
BUTT WELD · THREADED · HEAT TRACING · SOCKET · PIPE SUPPORT · INSULATED

| NDT EXAMINATION | | | |
|---|---|---|---|
| NDT TYPE | % | NDT TYPE | % |
| RT | 100 | VT | 100 |
| INSPECTION CATEGORY | 1 | MT/PT | 100Ratio |

| TESTING | |
|---|---|
| TEST FLUID | TEST PRESS.(barg) |
| Water | 60 |

| PROCESS LINE DATA | | | |
|---|---|---|---|
| DESIGN TEMP. (°C) | | DESIGN PRESS.(barg) | |
| -29 | 80 | | 40 |

| INSULATION & PAINTING | | |
|---|---|---|
| INS. TYPE | INS. THK. | INS. SURF. (m²) |
| N | | |
| PAINT SYS. | BASE RAL | PAINT. SURF. (m²) |
| 6A | RAL 9002 | 4.08 |

| HEAT TRACING |
|---|
| - |

| LINE DATA | | |
|---|---|---|
| STRESS SYS. | PED CAT. | PWHT |
| - | II | No |

| Revision Number | Date | Description | Prepared by | Checked by | Approved by |
|---|---|---|---|---|---|
| 02 | 29/09/25 | AS-BUILT (ASB) | SPS | CBO | CGI |
| 01 | 12/07/24 | ACCEPTED FOR CONSTRUCTION | MMA | CBO | DLO |
| 00 | 07/06/24 | ISSUE FOR REVIEW | MMA | CBO | DLO |

ROSETTI MARINO

# CROSSWIND

DWG TYTLE:

## 1"-HY-007-03HSS-N

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK

SCALE N.A.

DRAWN SPS | CHECKED CBO | APPROVED CGI | DATE 29/09/25

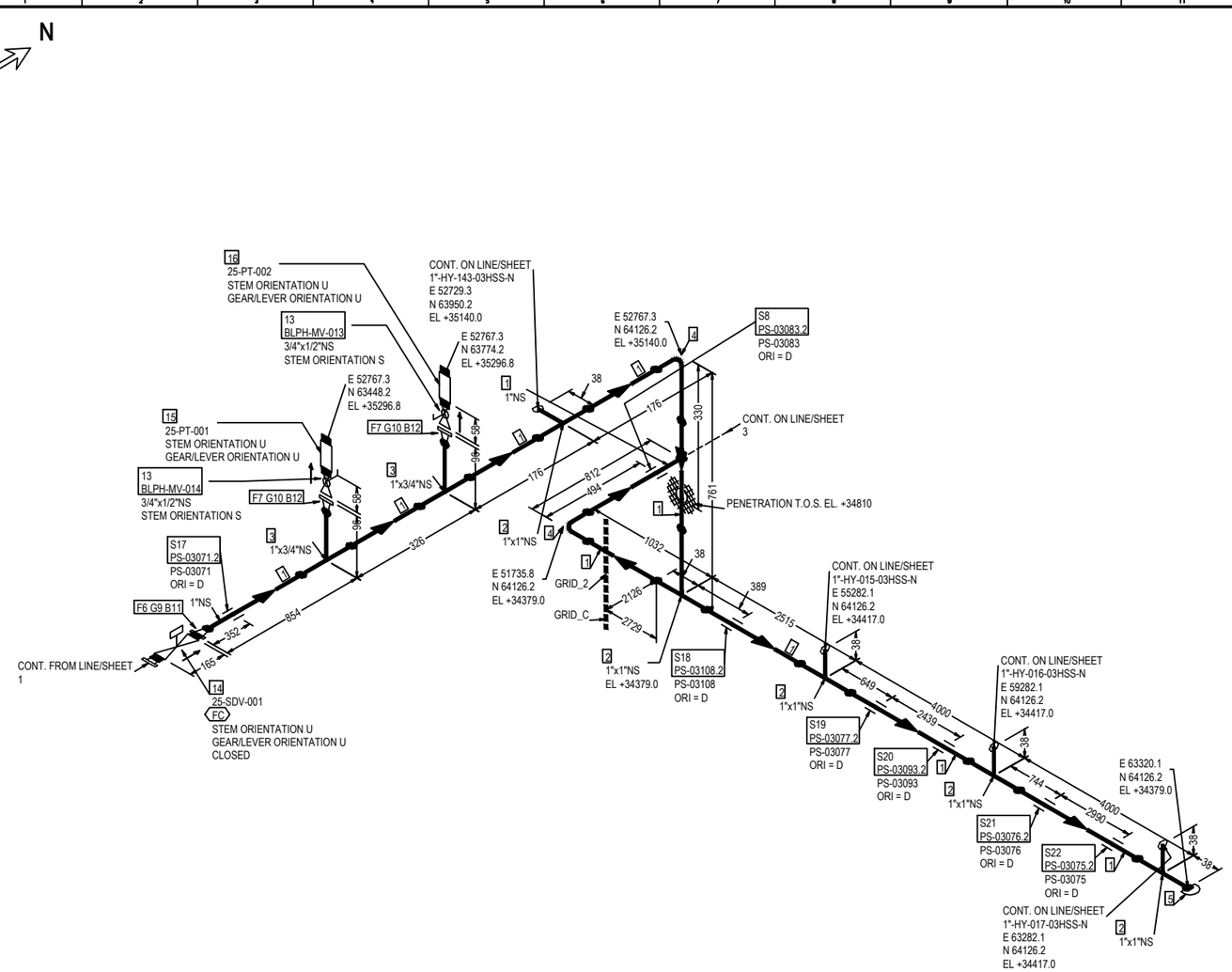
SIZE: A3

DRAWING NO. 123A90-DDL-PP-DI-71000_005

SHEET 1/3

REV. 02

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FABRICATION MATERIALS

| PT NO | COMPONENT DESCRIPTION | N.S. | ITEM CODE | Q.TY | WEIGHT |
|---|---|---|---|---|---|
| 1 | Pipe ASME B36.19M PE 3,38 SML ASTM A312 Gr.TP316/316L | 1 | PIPESS00480100 | 13906MM | 34.77 |
| 2 | Tee ASME B16.9 BW 3,38 WRS ASTM A403 Gr.WP316/316L | 1 x 1 | TEE0SS00550100 | 5 | 1.70 |
| 3 | Tee Reducing ASME B16.9 BW 3,38x2,87 WRS ASTM A403 Gr.WP316/316L | 1 x 3/4 | TER0SS01710130 | 2 | 0.68 |
| 4 | 90 Deg Elbow Long Radius ASME B16.9 BW 3,38 WRS ASTM A403 Gr.WP316/316L | 1 | E90RSS00670100 | 2 | 0.28 |
| 5 | Cap ASME B16.9 BW 3,38 WRS ASTM A403 Gr.WP316/316L | 1 | CAP0SS01030100 | 1 | 0.10 |
| 6 | Flange WN ASME B16.5 300LB RF 3,38 FRG ASTM A182 Gr.F316/316L | 1 | FLW0SS03270100 | 1 | 1.83 |
| 7 | Flange WN ASME B16.5 300LB RF 2,87 FRG ASTM A182 Gr.F316/316L | 3/4 | FLW0SS01033Q00 | 2 | 2.84 |
| | SUPPORTS | | | | |
| 8 | /PS-03083.2 | 1 | | 1 | 0.19 |
| | | | TOTAL FABRICATION WEIGHT | | 42.39 |

ERECTION MATERIALS

| PT NO | COMPONENT DESCRIPTION | N.S. | ITEM CODE | Q.TY | WEIGHT |
|---|---|---|---|---|---|
| 9 | Gasket Spiral Wound Thk. 3.2 mm ASME B16.20 300LB RF GSK AISI 316 + GRAPHITE c/w INNER RING | 1 | GSW0GK11210100 | 1 | 0.07 |
| 10 | Gasket Spiral Wound Thk. 3.2 mm ASME B16.20 300LB RF GSK AISI 316 + GRAPHITE c/w INNER RING | 3/4 | GSW0GK11203Q00 | 2 | 0.14 |
| 11 | 80 Stud Bolt + 2 Heavy Nuts ASME B1.1 ASTM A193 Gr.B7 - A194 Gr.2H Hot dip galvanized | 5/8 | SB20BO01870300 | 4 | 0.00 |
| 12 | 75 Stud Bolt + 2 Heavy Nuts ASME B1.1 ASTM A193 Gr.B7 - A194 Gr.2H Hot dip galvanized | 5/8 | SB20BO07540300 | 8 | 1.76 |
| 13 | Monoflange Double Block & Bleed Valve API 6D FLG x THRD-F NPT 300LB RF MD03C02YH | 3/4 x 1/2 | VLBMNN00013Q0H | 2 | 11.60 |
| | INSTRUMENTS | | | | |
| 14 | ON/OFF Ball Actuator Valve - 300#RF Flanged 25-SDV-001 | 1 | | 1 | 41.00 |
| 15 | Pressure Transmitter - Online 25-PT-001 | 1/2 | | 1 | --- |
| 16 | Pressure Transmitter - Online 25-PT-002 | 1/2 | | 1 | --- |
| | SUPPORTS | | | | |
| 17 | /PS-03071.2 | 1 | | 1 | 0.19 |
| 18 | /PS-03108.2 | 1 | | 1 | 0.19 |
| 19 | /PS-03077.2 | 1 | | 1 | 0.19 |
| 20 | /PS-03093.2 | 1 | | 1 | 0.19 |
| 21 | /PS-03076.2 | 1 | | 1 | 0.19 |
| 22 | /PS-03075.2 | 1 | | 1 | 0.19 |
| | | | TOTAL ERECTION WEIGHT | | 55.71 |
| | | | TOTAL WEIGHT | | 98.10 |

| REFERENCE DOCUMENTS | |
|---|---|
| 123A90-DDL-PP-RE-70001 | STRESS ANALYSIS REPORT |
| 123A90-DDL-PR-PID-80011 | P&ID |
| 123A90-DDL-MAT-SP-60003 | INSULATION SPECIFICATION |
| 123A90-DDL-MAT-SP-60006 | COATING & PAINTING SPEC. |
| 123A90-DDL-PP-00-72000 | PIPING SUPPORT BOOK |
| 123A90-DDL-PP-SP-70029 | PIPING MATERIAL CLASS |

SYMBOLS LEGEND:
BUTT WELD · THREADED · HEAT TRACING · SOCKET · PIPE SUPPORT · INSULATED

| NDT EXAMINATION | | | |
|---|---|---|---|
| NDT TYPE | % | NDT TYPE | % |
| RT | 100 | VT | 100 |
| INSPECTION CATEGORY | 1 | MT/PT | 100Ratio |
| TESTING | | | |
| TEST FLUID | | TEST PRESS. (barg) | |
| Water | | 60 | |
| PROCESS LINE DATA | | | |
| DESIGN TEMP. (°C) | | DESIGN PRESS. (barg) | |
| -29 | 80 | | 40 |

| INSULATION & PAINTING | | |
|---|---|---|
| INS. TYPE | INS. THK. | INS. SURF. (m²) |
| N | | |
| PAINT SYS. | BASE RAL | PAINT. SURF. (m²) |
| 6A | RAL 9002 | SEE Sh1 |
| HEAT TRACING | | |
| - | | |
| LINE DATA | | |
| STRESS SYS. | PED CAT. | PWHT |
| - | II | No |

| Revision Number | Date | Description | Prepared by | Checked by | Approved by |
|---|---|---|---|---|---|
| 02 | 29/09/25 | AS-BUILT (ASB) | SPS | CBO | CGI |
| 01 | 12/07/24 | ACCEPTED FOR CONSTRUCTION | MMA | CBO | DLO |
| 00 | 07/06/24 | ISSUE FOR REVIEW | MMA | CBO | DLO |

ROSETTI MARINO

# CROSSWIND

DWG TYTLE:

## 1"-HY-007-03HSS-N

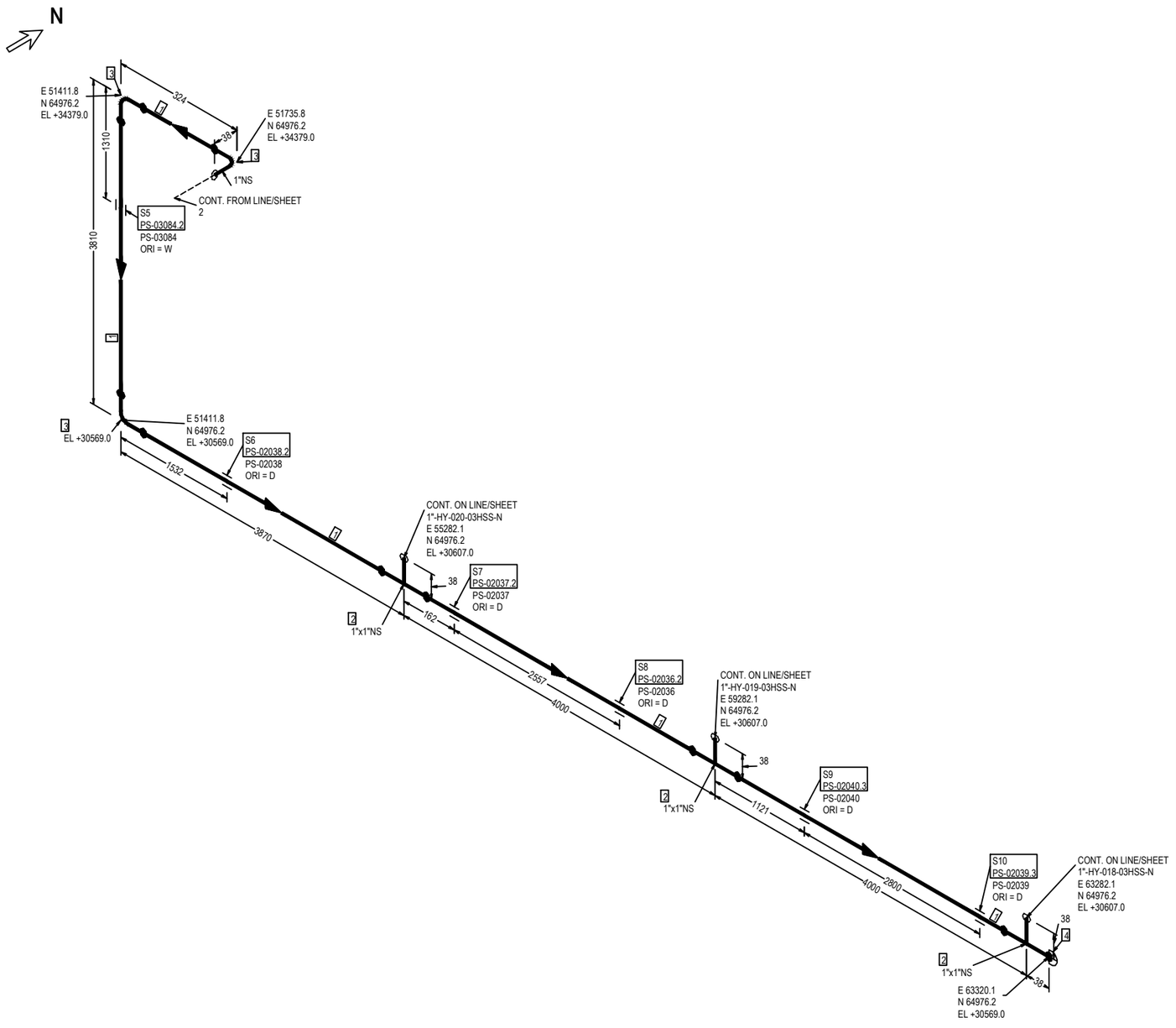
CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK

SCALE N.A.

| DRAWN | CHECKED | APPROVED | DATE |
|---|---|---|---|
| SPS | CBO | CGI | 29/09/25 |

| SIZE: | DRAWING NO. | SHEET | REV. |
|---|---|---|---|
| A3 | 123A90-DDL-PP-DI-71000_005 | 2/3 | 02 |

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FABRICATION MATERIALS

| PT NO | COMPONENT DESCRIPTION | N.S. | ITEM CODE | Q.TY | WEIGHT |
|---|---|---|---|---|---|
| 1 | Pipe ASME B36.19M PE 3,38 SML ASTM A312 Gr.TP316/316L | 1 | PIPESS00480100 | 15624MM | 39.06 |
| 2 | Tee ASME B16.9 BW 3,38 WRS ASTM A403 Gr.WP316/316L | 1 x 1 | TEE0SS00550100 | 3 | 1.02 |
| 3 | 90 Deg Elbow Long Radius ASME B16.9 BW 3,38 WRS ASTM A403 Gr.WP316/316L | 1 | E90RSS00670100 | 3 | 0.42 |
| 4 | Cap ASME B16.9 BW 3,38 WRS ASTM A403 Gr.WP316/316L | 1 | CAP0SS01030100 | 1 | 0.10 |
| | | | TOTAL FABRICATION WEIGHT | | 40.60 |

ERECTION MATERIALS

| PT NO | COMPONENT DESCRIPTION | N.S. | ITEM CODE | Q.TY | WEIGHT |
|---|---|---|---|---|---|
| | SUPPORTS | | | | |
| 5 | /PS-03084.2 | 1 | | 1 | 0.19 |
| 6 | /PS-02038.2 | 1 | | 1 | 0.19 |
| 7 | /PS-02037.2 | 1 | | 1 | 0.19 |
| 8 | /PS-02036.2 | 1 | | 1 | 0.19 |
| 9 | /PS-02040.3 | 1 | | 1 | 0.19 |
| 10 | /PS-02039.3 | 1 | | 1 | 0.19 |
| | | | TOTAL ERECTION WEIGHT | | 1.14 |
| | | | TOTAL WEIGHT | | 41.74 |

| REFERENCE DOCUMENTS | |
|---|---|
| 123A90-DDL-PP-RE-70001 | STRESS ANALYSIS REPORT |
| 123A90-DDL-PR-PID-80011 | P&ID |
| 123A90-DDL-MAT-SP-60003 | INSULATION SPECIFICATION |
| 123A90-DDL-MAT-SP-60006 | COATING & PAINTING SPEC. |
| 123A90-DDL-PP-00-72000 | PIPING SUPPORT BOOK |
| 123A90-DDL-PP-SP-70029 | PIPING MATERIAL CLASS |

SYMBOLS LEGEND:
BUTT WELD · THREADED · HEAT TRACING
SOCKET · PIPE SUPPORT · INSULATED

| NDT EXAMINATION | | | |
|---|---|---|---|
| NDT TYPE | % | NDT TYPE | % |
| RT | 100 | VT | 100 |
| INSPECTION CATEGORY | 1 | MT/PT | 100Ratio |
| TESTING | | | |
| TEST FLUID | | TEST PRESS. (barg) | |
| Water | | 60 | |
| PROCESS LINE DATA | | | |
| DESIGN TEMP. (°C) | | DESIGN PRESS. (barg) | |
| -29 | 80 | | 40 |

| INSULATION & PAINTING | | |
|---|---|---|
| INS. TYPE | INS. THK. | INS. SURF. (m²) |
| N | | |
| PAINT SYS. | BASE RAL | PAINT. SURF. (m²) |
| 6A | RAL 9002 | SEE Sh1 |
| HEAT TRACING | | |
| - | | |
| LINE DATA | | |
| STRESS SYS. | PED CAT. | PWHT |
| - | II | No |

| Revision Number | Date | Description | Prepared by | Checked by | Approved by |
|---|---|---|---|---|---|
| 02 | 29/09/25 | AS-BUILT (ASB) | SPS | CBO | CGI |
| 01 | 12/07/24 | ACCEPTED FOR CONSTRUCTION | MMA | CBO | DLO |
| 00 | 07/06/24 | ISSUE FOR REVIEW | MMA | CBO | DLO |

ROSETTI MARINO

# CROSSWIND

DWG TYTLE:

## 1"-HY-007-03HSS-N

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK

SCALE N.A.

DRAWN SPS | CHECKED CBO | APPROVED CGI | DATE 29/09/25

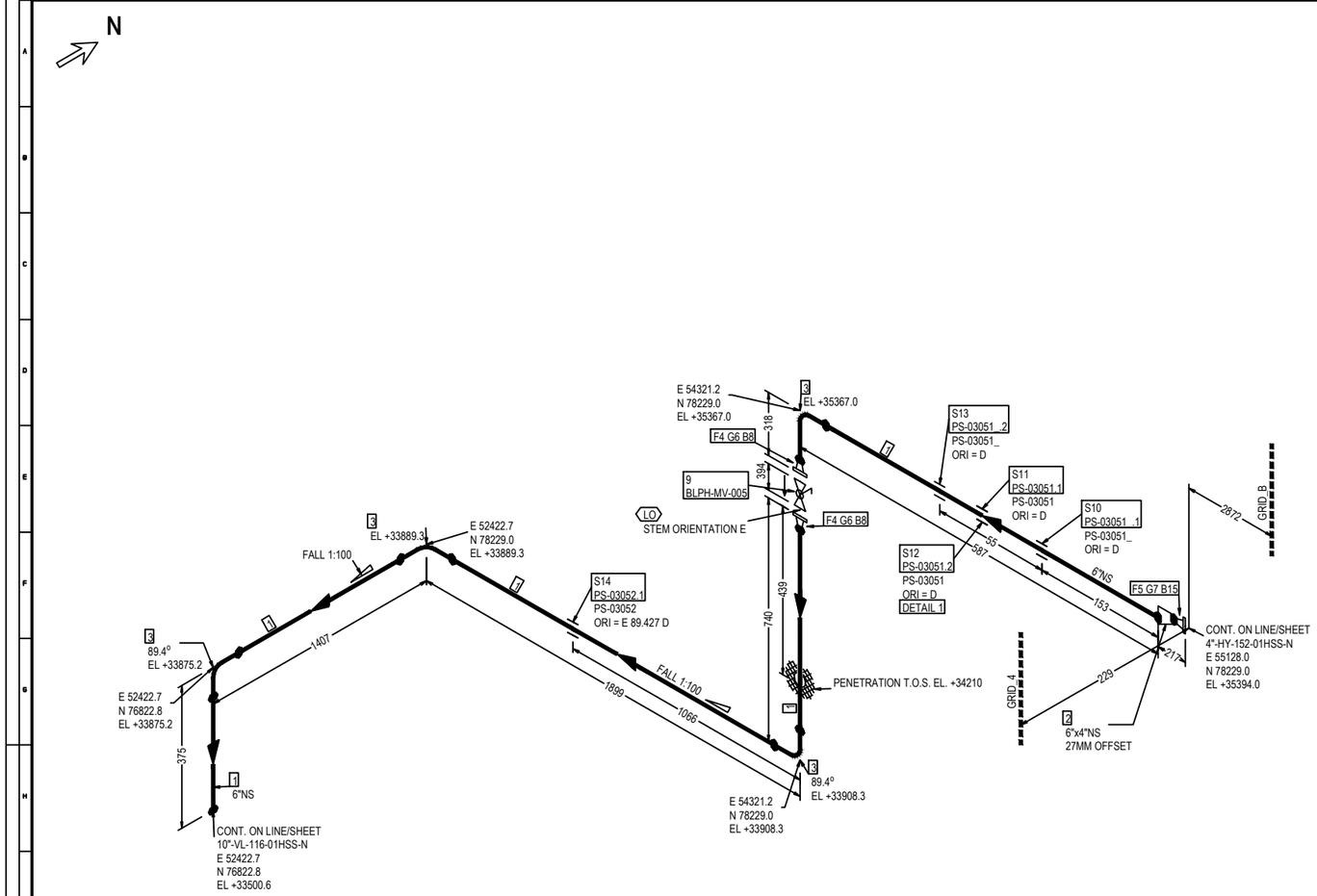
SIZE: A3

DRAWING NO. 123A90-DDL-PP-DI-71000_005

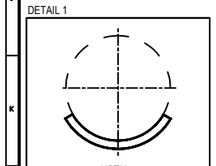
SHEET 3/3

REV. 02

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DETAIL 1




C-40-A-6"-320-3.40-120-90

## FABRICATION MATERIALS

| PT NO | COMPONENT DESCRIPTION | N.S. | ITEM CODE | Q.TY | WEIGHT |
|---|---|---|---|---|---|
| 1 | Pipe ASME B36.19M PE 3,4 SML ASTM A312 Gr.TP316/316L | 6 | PIPESS00570600 | 3325MM | 46.55 |
| 2 | Reducer Eccentric ASME B16.9 BW 3,4x3,05 WRS ASTM A403 Gr.WP316/316L | 6 x 4 | REE0SS02460604 | 1 | 1.90 |
| 3 | 90 Deg Elbow Long Radius ASME B16.9 BW 3,4 WRS ASTM A403 Gr.WP316/316L | 6 | E90RSS01030600 | 4 | 19.76 |
| 4 | Flange WN ASME B16.5 150LB RF 3,4 FRG ASTM A182 Gr.F316/316L | 6 | FLW0SS02980600 | 2 | 22.34 |
| 5 | Flange WN ASME B16.5 150LB RF 3,05 FRG ASTM A182 Gr.F316/316L | 4 | FLW0SS00880400 | 1 | 6.90 |
| | | | TOTAL FABRICATION WEIGHT | | 97.45 |

## ERECTION MATERIALS

| PT NO | COMPONENT DESCRIPTION | N.S. | ITEM CODE | Q.TY | WEIGHT |
|---|---|---|---|---|---|
| 6 | Gasket Spiral Wound Thk. 3.2 mm ASME B16.20 150LB RF GSK AISI 316 + GRAPHITE c/w INNER RING | 6 | GSW0GK11160600 | 2 | 0.56 |
| 7 | Gasket Spiral Wound Thk. 3.2 mm ASME B16.20 150LB RF GSK AISI 316 + GRAPHITE c/w INNER RING | 4 | GSW0GK11150400 | 1 | 0.24 |
| 8 | 105 Stud Bolt + 2 Heavy Nuts ASME B1.1 ASTM A193 Gr.B7 - A194 Gr.2H Hot dip galvanized | 3/4 | SB20BO01890400 | 16 | 6.72 |
| 15 | 90 Stud Bolt + 2 Heavy Nuts ASME B1.1 ASTM A193 Gr.B7 - A194 Gr.2H Hot dip galvanized | 5/8 | SB20BO04190300 | 8 | 2.00 |
| 9 | Ball Valve Split Body FB API 6D FLG 150LB RF BA01C01RFH | 6 | VBC0NN24400600 | 1 | 180.00 |
| | SUPPORTS | | | | |
| 10 | /PS-03051_.1 | 6 | | 1 | 1.42 |
| 11 | /PS-03051.1 | 6 | | 1 | 3.14 |
| 12 | /PS-03051.2 | 6 | | 1 | 1.54 |
| 13 | /PS-03051_.2 | 6 | | 1 | 1.42 |
| 14 | /PS-03052.1 | 6 | | 1 | 0.07 |
| | | | TOTAL ERECTION WEIGHT | | 198.11 |
| | | | TOTAL WEIGHT | | 294.56 |

| REFERENCE DOCUMENTS | |
|---|---|
| 123A90-DDL-PP-RE-70001 | STRESS ANALYSIS REPORT |
| 123A90-DDL-PR-PID-80012 | P&ID |
| 123A90-DDL-MAT-SP-60003 | INSULATION SPECIFICATION |
| 123A90-DDL-MAT-SP-60006 | COATING & PAINTING SPEC. |
| 123A90-DDL-PP-00-72000 | PIPING SUPPORT BOOK |
| 123A90-DDL-PP-SP-70029 | PIPING MATERIAL CLASS |

SYMBOLS LEGEND:
BUTT WELD · THREADED · HEAT TRACING · SOCKET · PIPE SUPPORT · INSULATED

| NDT EXAMINATION | | | | TESTING | | PROCESS LINE DATA | | |
|---|---|---|---|---|---|---|---|---|
| NDT TYPE | % | NDT TYPE | % | TEST FLUID | TEST PRESS.(barg) | DESIGN TEMP. (°C) | | DESIGN PRESS.(barg) |
| RT | 100 | VT | 100 | Water | 5.25 | -29 | 100 | 3.5 |
| INSPECTION CATEGORY | 1 | MT/PT | 100Ratio | | | | | |

| INSULATION & PAINTING | | | HEAT TRACING | LINE DATA | | |
|---|---|---|---|---|---|---|
| INS. TYPE | INS. THK. | INS. SURF. (m²) | | STRESS SYS. | PED CAT. | PWHT |
| N | | | - | 01 | II | No |
| PAINT SYS. | BASE RAL | PAINT. SURF. (m²) | | | | |
| 6A | RAL 9002 | 2.94 | | | | |

| Revision Number | Date | Description | Prepared by | Checked by | Approved by |
|---|---|---|---|---|---|
| 02 | 29/09/25 | AS-BUILT (ASB) | SPS | CBO | CGI |
| 01 | 12/07/24 | ACCEPTED FOR CONSTRUCTION | MMA | CBO | DLO |
| 00 | 07/06/24 | ISSUE FOR REVIEW | MMA | CBO | DLO |

ROSETTI MARINO

# CROSSWIND

DWG TYTLE:

# 6"-VL-010-01HSS-N

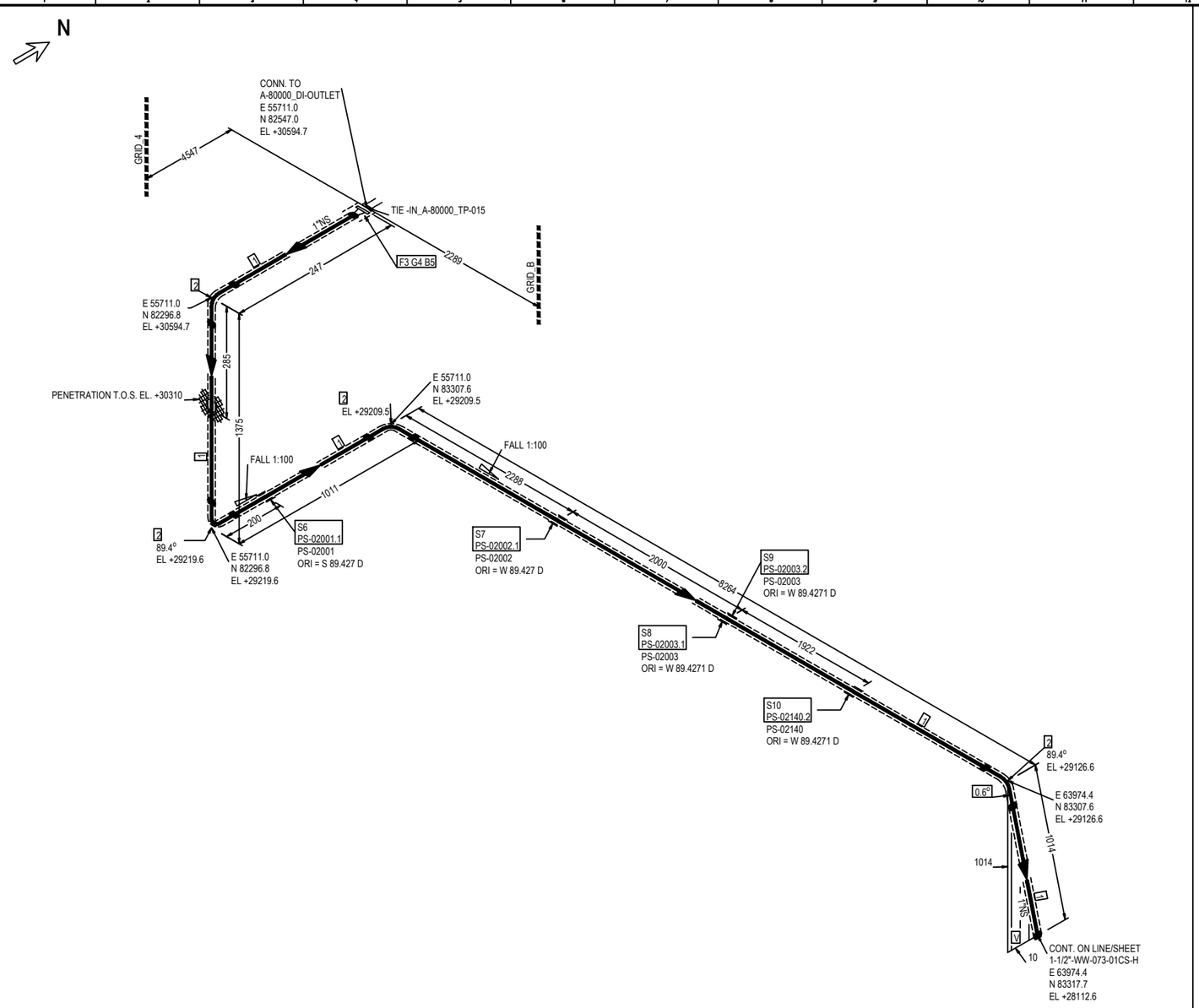
CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK

SCALE N.A.

DRAWN SPS | CHECKED CBO | APPROVED CGI | DATE 29/09/25

SIZE: A3 | DRAWING NO. 123A90-DDL-PP-DI-71000_006 | SHEET 1/1 | REV. 02

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FABRICATION MATERIALS

| PT NO | COMPONENT DESCRIPTION | N.S. | ITEM CODE | Q.TY | WEIGHT |
|---|---|---|---|---|---|
| 1 | Pipe ASME B36.10M PE 4,55 SML ASTM/ASME A/SA333 Gr.6 | 1 | PIPECS08300100 | 11551MM | 36.96 |
| 2 | 90 Deg Elbow Long Radius ASME B16.9 BW 4,55 WRS ASTM/ASME A/SA420 Gr.WPL6 | 1 | E90RCS01780100 | 4 | 0.72 |
| 3 | Flange WN ASME B16.5 150LB RF 4,55 FRG ASTM/ASME A/SA350 Gr.LF2 | 1 | FLW0CS16540100 | 1 | 1.40 |
| | | | TOTAL FABRICATION WEIGHT | | 39.08 |

ERECTION MATERIALS

| PT NO | COMPONENT DESCRIPTION | N.S. | ITEM CODE | Q.TY | WEIGHT |
|---|---|---|---|---|---|
| 4 | Insulation Kit Ends as per ASME B16.5 150LB RF | 1 | SPIKNN01220100 | 1 | 0.06 |
| 5 | 80 Stud Bolt + 2 Heavy Nuts ASME B1.1 ASTM A193 Gr.B7 - A194 Gr.2H Hot dip galvanized | 1/2 | SB20BO00980200 | 4 | 0.52 |
| | SUPPORTS | | | | |
| 6 | /PS-02001.1 | 1 | | 1 | 2.33 |
| 7 | /PS-02002.1 | 1 | | 1 | 2.34 |
| 8 | /PS-02003.1 | 1 | | 1 | 2.34 |
| 9 | /PS-02003.2 | 1 | | 1 | 1.46 |
| 10 | /PS-02140.2 | 1 | | 1 | 2.34 |
| | | | TOTAL ERECTION WEIGHT | | 11.39 |
| | | | TOTAL WEIGHT | | 50.47 |

| REFERENCE DOCUMENTS | |
|---|---|
| 123A90-DDL-PP-RE-70001 | STRESS ANALYSIS REPORT |
| 123A90-DDL-PR-PID-80012 | P&ID |
| 123A90-DDL-MAT-SP-60003 | INSULATION SPECIFICATION |
| 123A90-DDL-MAT-SP-60006 | COATING & PAINTING SPEC. |
| 123A90-DDL-PP-00-72000 | PIPING SUPPORT BOOK |
| 123A90-DDL-PP-SP-70029 | PIPING MATERIAL CLASS |

SYMBOLS LEGEND:
BUTT WELD · THREADED · HEAT TRACING · SOCKET · PIPE SUPPORT · INSULATED

| NDT EXAMINATION | | | |
|---|---|---|---|
| NDT TYPE | % | NDT TYPE | % |
| RT | 10 | VT | 100 |
| INSPECTION CATEGORY | 2 | MT/PT | 10 |
| TESTING | | | |
| TEST FLUID | | TEST PRESS. (barg) | |
| Water | | 5.25 | |
| PROCESS LINE DATA | | | |
| DESIGN TEMP. (°C) | | DESIGN PRESS. (barg) | |
| -46 | 100 | | 3.5 |

| INSULATION & PAINTING | | |
|---|---|---|
| INS. TYPE | INS. THK. | INS. SURF. (m²) |
| H | 20mm | 3.10 |
| PAINT SYS. | BASE RAL | PAINT. SURF. (m²) |
| 9 | N/A | 1.23 |
| HEAT TRACING | | |
| - | | |
| LINE DATA | | |
| STRESS SYS. | PED CAT. | PWHT |
| - | Art. 4, par. 3 | No |

| Revision Number | Date | Description | Prepared by | Checked by | Approved by |
|---|---|---|---|---|---|
| 02 | 29/09/25 | AS-BUILT (ASB) | SPS | CBO | CGI |
| 01 | 26/07/24 | ACCEPTED FOR CONSTRUCTION | MMA | CBO | DLO |
| 00 | 07/06/24 | ISSUE FOR REVIEW | MMA | CBO | DLO |

ROSETTI MARINO

# CROSSWIND

DWG TYTLE:

## 1"-DI-012-01CS-H

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK

SCALE N.A.

DRAWN SPS | CHECKED CBO | APPROVED CGI | DATE 29/09/25

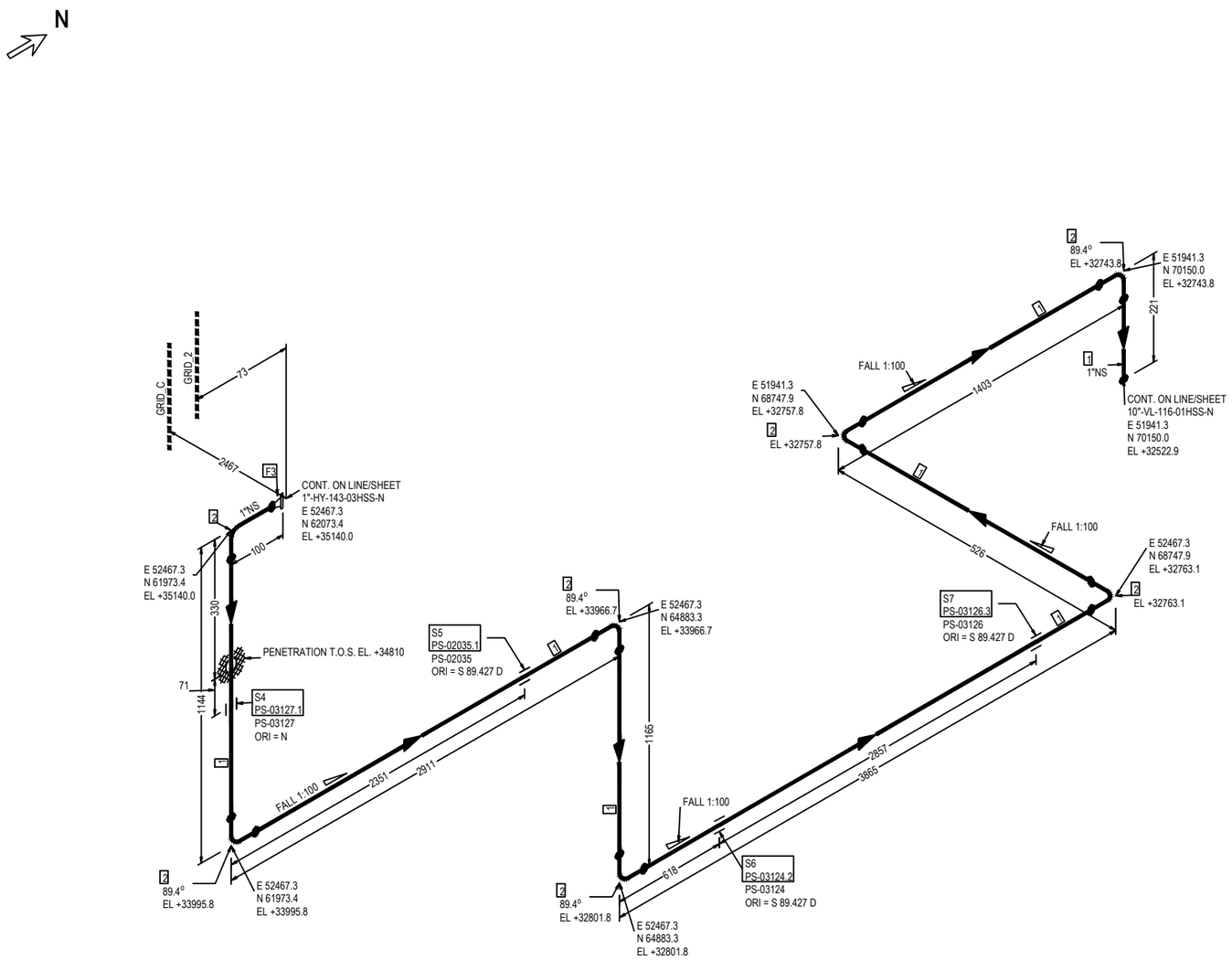
SIZE: A3

DRAWING NO. 123A90-DDL-PP-DI-71000_007

SHEET 1 / 1

REV. 02

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FABRICATION MATERIALS

| PT NO | COMPONENT DESCRIPTION | N.S. | ITEM CODE | Q.TY | WEIGHT |
|---|---|---|---|---|---|
| 1 | Pipe ASME B36.19M PE 3,38 SML ASTM A312 Gr.TP316/316L | 1 | PIPESS00480100 | 10743MM | 26.86 |
| 2 | 90 Deg Elbow Long Radius ASME B16.9 BW 3,38 WRS ASTM A403 Gr.WP316/316L | 1 | E90RSS00670100 | 7 | 0.98 |
| 3 | Flange WN ASME B16.5 300LB RF 3,38 FRG ASTM A182 Gr.F316/316L | 1 | FLW0SS03270100 | 1 | 1.83 |
| | | | TOTAL FABRICATION WEIGHT | | 29.67 |

ERECTION MATERIALS

| PT NO | COMPONENT DESCRIPTION | N.S. | ITEM CODE | Q.TY | WEIGHT |
|---|---|---|---|---|---|
| | SUPPORTS | | | | |
| 4 | /PS-03127.1 | 1 | | 1 | 0.19 |
| 5 | /PS-02035.1 | 1 | | 1 | 0.03 |
| 6 | /PS-03124.2 | 1 | | 1 | 0.03 |
| 7 | /PS-03126.3 | 1 | | 1 | 0.03 |
| | | | TOTAL ERECTION WEIGHT | | 0.28 |
| | | | TOTAL WEIGHT | | 29.95 |

| REFERENCE DOCUMENTS | |
|---|---|
| 123A90-DDL-PP-RE-70001 | STRESS ANALYSIS REPORT |
| 123A90-DDL-PR-PID-80013 | P&ID |
| 123A90-DDL-MAT-SP-60003 | INSULATION SPECIFICATION |
| 123A90-DDL-MAT-SP-60006 | COATING & PAINTING SPEC. |
| 123A90-DDL-PP-00-72000 | PIPING SUPPORT BOOK |
| 123A90-DDL-PP-SP-70029 | PIPING MATERIAL CLASS |

SYMBOLS LEGEND:
BUTT WELD · THREADED · HEAT TRACING · SOCKET · PIPE SUPPORT · INSULATED

| NDT EXAMINATION | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NDT TYPE | % | NDT TYPE | % | | | | | | | | | | | |
| RT | 100 | VT | 100 | | | | | | | | | | | |
| INSPECTION CATEGORY | 1 | MT/PT | 100Ratio | | | | | | | | | | | |
| TESTING | | | | | | | | | | | | | | |
| TEST FLUID | | TEST PRESS. [barg] | | | | | | | | | | | | |
| Water | | 5.25 | | | | | | | | | | | | |
| PROCESS LINE DATA | | | | | | | | | | | | | | |
| DESIGN TEMP. [°C] | | DESIGN PRESS. [barg] | | | | | | | | | | | | |
| -29 | 100 | | 3.5 | | | | | | | | | | | |

| INSULATION & PAINTING | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| INS. TYPE | INS. THK. | INS. SURF. [m²] | | | | | | | | | | | | |
| N | | | | | | | | | | | | | | |
| PAINT SYS. | BASE RAL | PAINT. SURF. [m²] | | | | | | | | | | | | |
| 6A | RAL 9002 | 1.16 | | | | | | | | | | | | |
| HEAT TRACING | | | | | | | | | | | | | | |
| - | | | | | | | | | | | | | | |
| LINE DATA | | | | | | | | | | | | | | |
| STRESS SYS. | PED CAT. | PWHT | | | | | | | | | | | | |
| - | Art. 4, par. 3 | No | | | | | | | | | | | | |

| Revision Number | Date | Description | Prepared by | Checked by | Approved by |
|---|---|---|---|---|---|
| 02 | 29/09/25 | AS-BUILT (ASB) | SPS | CBO | CGI |
| 01 | 12/07/24 | ACCEPTED FOR CONSTRUCTION | MMA | CBO | DLO |
| 00 | 07/06/24 | ISSUE FOR REVIEW | MMA | CBO | DLO |

ROSETTI MARINO

CROSSWIND

DWG TYTLE:

1"-VL-014-01HSS-N

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK

SCALE N.A.

DRAWN SPS | CHECKED CBO | APPROVED CGI | DATE 29/09/25

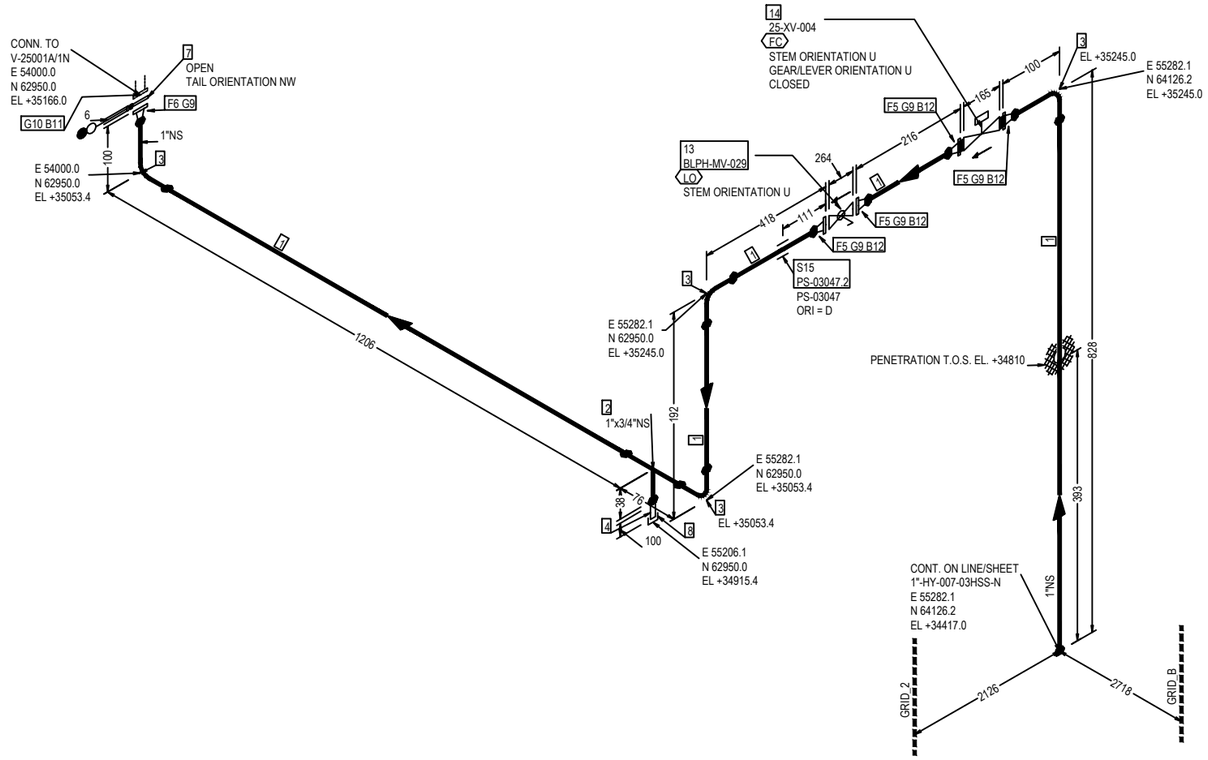
SIZE: A3

DRAWING NO. 123A90-DDL-PP-DI-71000_008

SHEET 1/1

REV. 02

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FABRICATION MATERIALS

| PT NO | COMPONENT DESCRIPTION | N.S. | ITEM CODE | Q.TY | WEIGHT |
|---|---|---|---|---|---|
| 1 | Pipe ASME B36.19M PE 3,38 SML ASTM A312 Gr.TP316/316L | 1 | PIPESS00480100 | 2446MM | 6.11 |
| 2 | Tee Reducing ASME B16.9 BW 3,38x2,87 WRS ASTM A403 Gr.WP316/316L | 1 x 3/4 | TER0SS0171013Q | 1 | 0.34 |
| 3 | 90 Deg Elbow Long Radius ASME B16.9 BW 3,38 WRS ASTM A403 Gr.WP316/316L | 1 | E90RSS00670100 | 4 | 0.56 |
| 4 | Nipple L=100mm ASME B36.19M THRD-M NPT x PE 2,87 SML ASTM A312 Gr.TP316/316L | 3/4 | N100SS02653Q00 | 1 | 0.15 |
| 5 | Flange WN ASME B16.5 300LB RF 3,38 FRG ASTM A182 Gr.F316/316L | 1 | FLW0SS03270100 | 4 | 7.32 |
| 6 | Flange WN For Jackscrews ASME B16.5 300LB RF 3,38 FRG ASTM A182 Gr.F316/316L | 1 | FLWDSS00770100 | 1 | 1.83 |
| | | | TOTAL FABRICATION WEIGHT | | 16.31 |

ERECTION MATERIALS

| PT NO | COMPONENT DESCRIPTION | N.S. | ITEM CODE | Q.TY | WEIGHT |
|---|---|---|---|---|---|
| 7 | Spectacle Blinds ASME B16.48 THRU BOLTED 300LB RF FPL ASTM A240 Gr.TP316/316L | 1 | BSPESS01580100 | 1 | 0.51 |
| 8 | Cap Forged ASME B16.11 THRD-F NPT 3000# FRG ASTM A182 Gr.F316/316L | 3/4 | CAPFSS00023Q00 | 1 | 0.19 |
| 9 | Gasket Spiral Wound Thk. 3.2 mm ASME B16.20 300LB RF GSK AISI 316 + GRAPHITE c/w INNER RING | 1 | GSW0GK11210100 | 5 | 0.35 |
| 10 | Insulation Kit Ends as per ASME B16.5 300LB RF | 1 | SPIKNN01420100 | 1 | 0.07 |
| 11 | 105 Stud Bolt + 2 Heavy Nuts ASME B1.1 ASTM A193 Gr.B7 - A194 Gr.2H Hot dip galvanized | 5/8 | SB20BO04200300 | 4 | 1.08 |
| 12 | 80 Stud Bolt + 2 Heavy Nuts ASME B1.1 ASTM A193 Gr.B7 - A194 Gr.2H Hot dip galvanized | 5/8 | SB20BO01870300 | 16 | 3.68 |
| 13 | Double Block & Bleed Valve API 6D FLG 300LB RF DA03C01RFH | 1 | VLBBNN07190100 | 1 | 13.50 |
| | INSTRUMENTS | | | | |
| 14 | ON/OFF Ball Actuator Valve - 300#RF Flanged 25-XV-004 | 1 | | 1 | 41.00 |
| | SUPPORTS | | | | |
| 15 | /PS-03047.2 | 1 | | 1 | 0.19 |
| | | | TOTAL ERECTION WEIGHT | | 60.57 |
| | | | TOTAL WEIGHT | | 76.88 |

| REFERENCE DOCUMENTS | | NDT EXAMINATION | | | | INSULATION & PAINTING | | |
|---|---|---|---|---|---|---|---|---|
| 123A90-DDL-PP-RE-70001 | STRESS ANALYSIS REPORT | NDT TYPE | % | NDT TYPE | % | INS. TYPE | INS. THK. | INS. SURF. (m²) |
| 123A90-DDL-PR-PID-80013 | P&ID | RT | 100 | VT | 100 | N | | |
| 123A90-DDL-MAT-SP-60003 | INSULATION SPECIFICATION | INSPECTION CATEGORY | 1 | MT/PT | 100Ratio | PAINT SYS. | BASE RAL | PAINT. SURF. (m²) |
| 123A90-DDL-MAT-SP-60006 | COATING & PAINTING SPEC. | TESTING | | | | 6A | RAL 9002 | 0.38 |
| 123A90-DDL-PP-00-72000 | PIPING SUPPORT BOOK | TEST FLUID | | TEST PRESS. (barg) | | HEAT TRACING | | |
| 123A90-DDL-PP-SP-70029 | PIPING MATERIAL CLASS | Water | | 60 | | - | | |
| SYMBOLS LEGEND: | | PROCESS LINE DATA | | | | LINE DATA | | |
| BUTT WELD / THREADED / HEAT TRACING | | DESIGN TEMP. (°C) | | DESIGN PRESS. (barg) | | STRESS SYS. | PED CAT. | PWHT |
| SOCKET / PIPE SUPPORT / INSULATED | | -29 | 80 | | 40 | - | II | No |

| Revision Number | Date | Description | Prepared by | Checked by | Approved by |
|---|---|---|---|---|---|
| 02 | 29/09/25 | AS-BUILT (ASB) | SPS | CBO | CGI |
| 01 | 12/07/24 | ACCEPTED FOR CONSTRUCTION | MMA | CBO | DLO |
| 00 | 07/06/24 | ISSUE FOR REVIEW | MMA | CBO | DLO |

ROSETTI MARINO

CROSSWIND

DWG TYTLE:

# 1"-HY-015-03HSS-N

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK

SCALE N.A.

DRAWN SPS | CHECKED CBO | APPROVED CGI | DATE 29/09/25

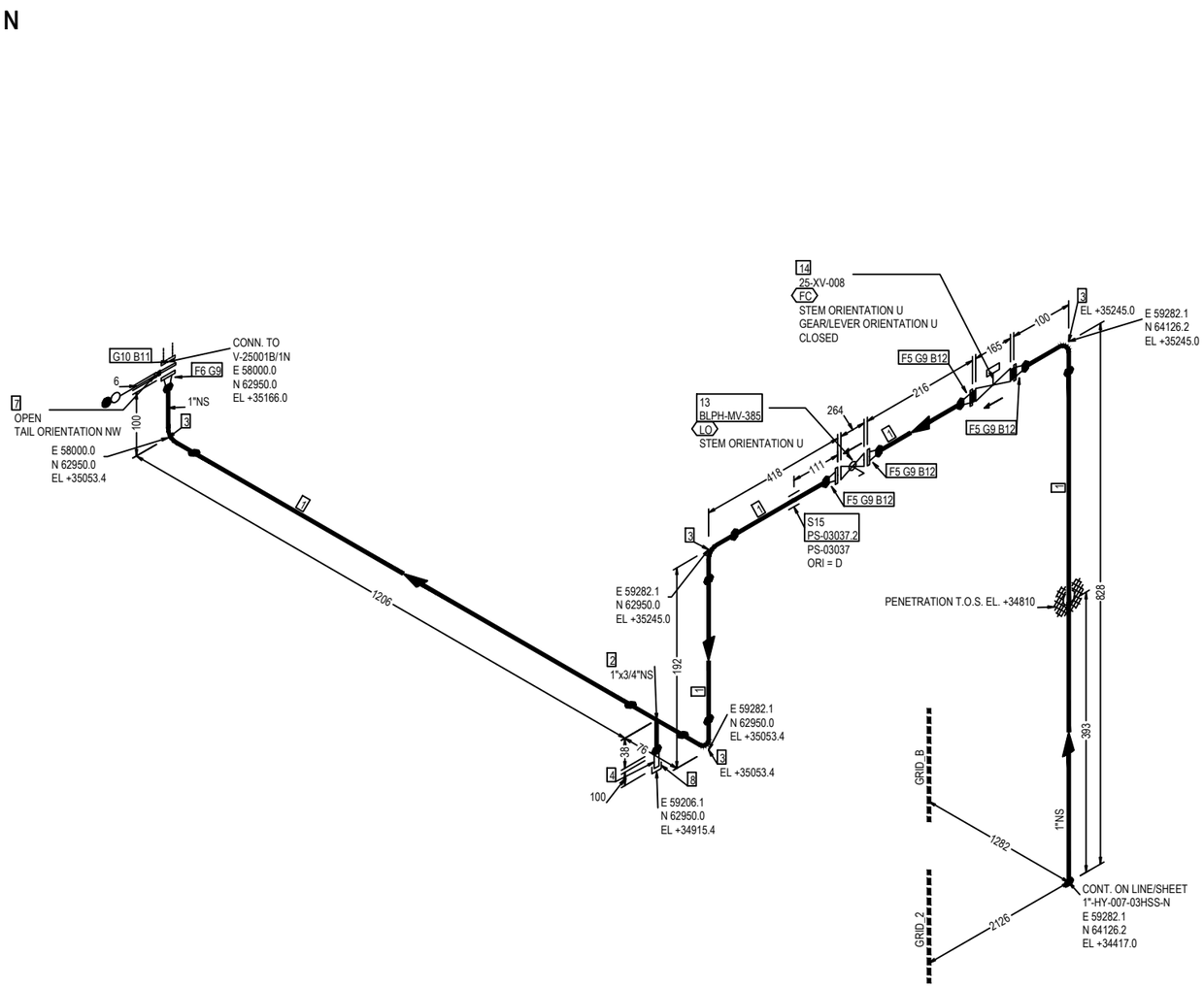
SIZE: A3

DRAWING NO. 123A90-DDL-PP-DI-71000_009

SHEET 1/1

REV. 02

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FABRICATION MATERIALS

| PT NO | COMPONENT DESCRIPTION | N.S. | ITEM CODE | Q.TY | WEIGHT |
|---|---|---|---|---|---|
| 1 | Pipe ASME B36.19M PE 3,38 SML ASTM A312 Gr.TP316/316L | 1 | PIPESS00480100 | 2446MM | 6.11 |
| 2 | Tee Reducing ASME B16.9 BW 3,38x2,87 WRS ASTM A403 Gr.WP316/316L | 1 x 3/4 | TER0SS0171013Q | 1 | 0.34 |
| 3 | 90 Deg Elbow Long Radius ASME B16.9 BW 3,38 WRS ASTM A403 Gr.WP316/316L | 1 | E90RSS00670100 | 4 | 0.56 |
| 4 | Nipple L=100mm ASME B36.19M THRD-M NPT x PE 2,87 SML ASTM A312 Gr.TP316/316L | 3/4 | N100SS02653Q00 | 1 | 0.15 |
| 5 | Flange WN ASME B16.5 300LB RF 3,38 FRG ASTM A182 Gr.F316/316L | 1 | FLW0SS03270100 | 4 | 7.32 |
| 6 | Flange WN For Jackscrews ASME B16.5 300LB RF 3,38 FRG ASTM A182 Gr.F316/316L | 1 | FLWDSS00770100 | 1 | 1.83 |
| | | | TOTAL FABRICATION WEIGHT | | 16.31 |

ERECTION MATERIALS

| PT NO | COMPONENT DESCRIPTION | N.S. | ITEM CODE | Q.TY | WEIGHT |
|---|---|---|---|---|---|
| 7 | Spectacle Blinds ASME B16.48 THRU BOLTED 300LB RF FPL ASTM A240 Gr.TP316/316L | 1 | BSPESS01580100 | 1 | 0.51 |
| 8 | Cap Forged ASME B16.11 THRD-F NPT 3000# FRG ASTM A182 Gr.F316/316L | 3/4 | CAPFSS00023Q00 | 1 | 0.19 |
| 9 | Gasket Spiral Wound Thk. 3.2 mm ASME B16.20 300LB RF GSK AISI 316 + GRAPHITE c/w INNER RING | 1 | GSW0GK11210100 | 5 | 0.35 |
| 10 | Insulation Kit Ends as per ASME B16.5 300LB RF | 1 | SPIKNN01420100 | 1 | 0.07 |
| 11 | 105 Stud Bolt + 2 Heavy Nuts ASME B1.1 ASTM A193 Gr.B7 - A194 Gr.2H Hot dip galvanized | 5/8 | SB20BO04200300 | 4 | 1.08 |
| 12 | 80 Stud Bolt + 2 Heavy Nuts ASME B1.1 ASTM A193 Gr.B7 - A194 Gr.2H Hot dip galvanized | 5/8 | SB20BO01870300 | 16 | 3.68 |
| 13 | Double Block & Bleed Valve API 6D FLG 300LB RF DA03C01RFH | 1 | VLBBNN07190100 | 1 | 13.50 |
| | INSTRUMENTS | | | | |
| 14 | ON/OFF Ball Actuator Valve - 300#RF Flanged 25-XV-008 | 1 | | 1 | 41.00 |
| | SUPPORTS | | | | |
| 15 | /PS-03037.2 | 1 | | 1 | 0.19 |
| | | | TOTAL ERECTION WEIGHT | | 60.57 |
| | | | TOTAL WEIGHT | | 76.88 |

| REFERENCE DOCUMENTS | |
|---|---|
| 123A90-DDL-PP-RE-70001 | STRESS ANALYSIS REPORT |
| 123A90-DDL-PR-PID-80016 | P&ID |
| 123A90-DDL-MAT-SP-60003 | INSULATION SPECIFICATION |
| 123A90-DDL-MAT-SP-60006 | COATING & PAINTING SPEC. |
| 123A90-DDL-PP-00-72000 | PIPING SUPPORT BOOK |
| 123A90-DDL-PP-SP-70029 | PIPING MATERIAL CLASS |

SYMBOLS LEGEND:
BUTT WELD, THREADED, HEAT TRACING, SOCKET, PIPE SUPPORT, INSULATED

| NDT EXAMINATION | | | |
|---|---|---|---|
| NDT TYPE | % | NDT TYPE | % |
| RT | 100 | VT | 100 |
| INSPECTION CATEGORY | 1 | MT/PT | 100Ratio |
| TESTING | | | |
| TEST FLUID | | TEST PRESS. [barg] | |
| Water | | 60 | |
| PROCESS LINE DATA | | | |
| DESIGN TEMP. [°C] | | DESIGN PRESS. [barg] | |
| -29 | 80 | | 40 |

| INSULATION & PAINTING | | |
|---|---|---|
| INS. TYPE | INS. THK. | INS. SURF. [m²] |
| N | | |
| PAINT SYS. | BASE RAL | PAINT. SURF. [m²] |
| 6A | RAL 9002 | 0.38 |
| HEAT TRACING | | |
| - | | |
| LINE DATA | | |
| STRESS SYS. | PED CAT. | PWHT |
| - | II | No |

| Revision Number | Date | Description | Prepared by | Checked by | Approved by |
|---|---|---|---|---|---|
| 02 | 29/09/25 | AS-BUILT (ASB) | SPS | CBO | CGI |
| 01 | 12/07/24 | ACCEPTED FOR CONSTRUCTION | MMA | CBO | DLO |
| 00 | 07/06/24 | ISSUE FOR REVIEW | MMA | CBO | DLO |

ROSETTI MARINO

# CROSSWIND

DWG TYTLE:

## 1"-HY-016-03HSS-N

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK

SCALE N.A.

DRAWN SPS | CHECKED CBO | APPROVED CGI | DATE 29/09/25

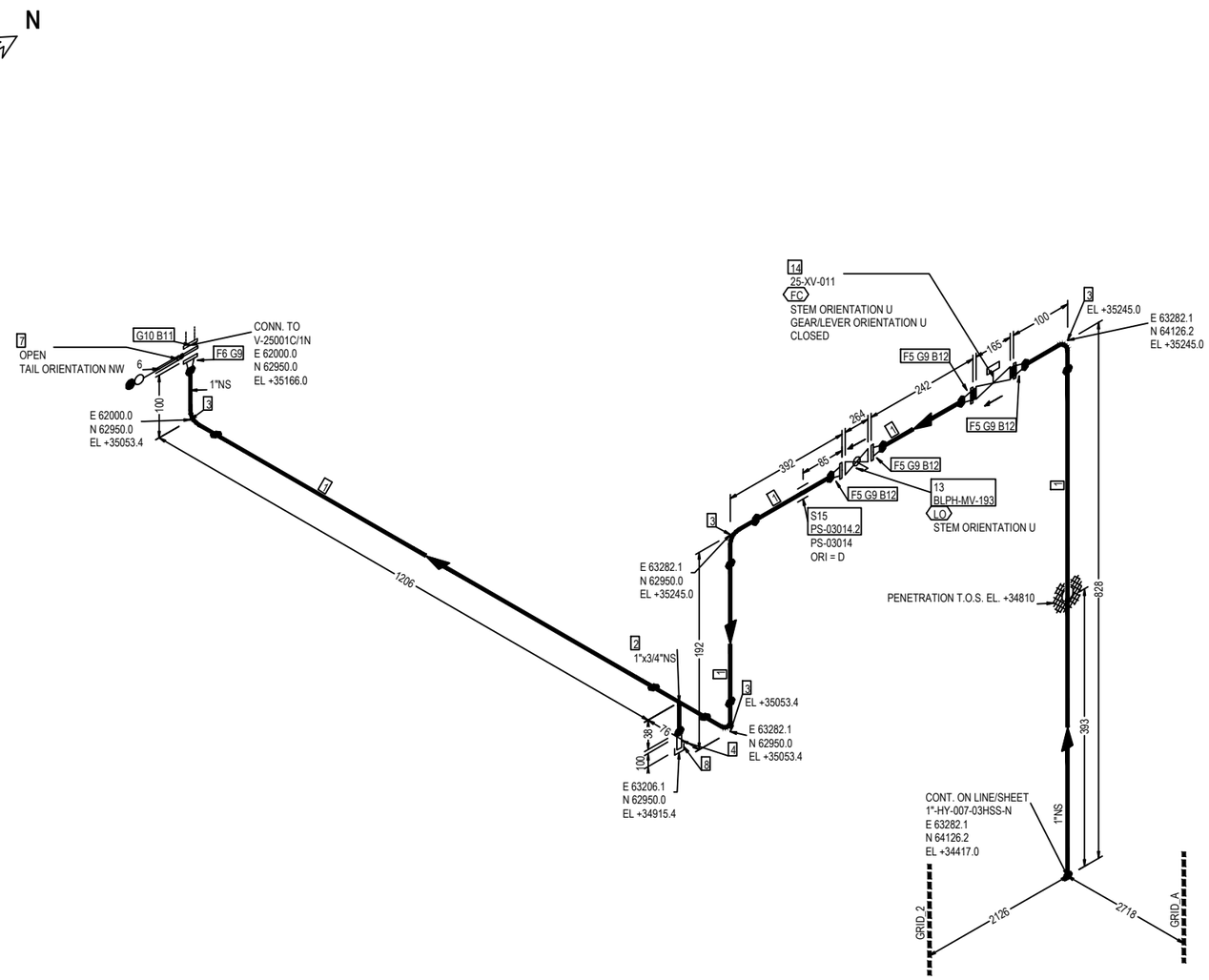
SIZE: A3

DRAWING NO. 123A90-DDL-PP-DI-71000_010

SHEET 1/1

REV. 02

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FABRICATION MATERIALS

| PT NO | COMPONENT DESCRIPTION | N.S. | ITEM CODE | Q.TY | WEIGHT |
|---|---|---|---|---|---|
| 1 | Pipe ASME B36.19M PE 3,38 SML ASTM A312 Gr.TP316/316L | 1 | PIPESS00480100 | 2446MM | 6.11 |
| 2 | Tee Reducing ASME B16.9 BW 3,38x2,87 WRS ASTM A403 Gr.WP316/316L | 1 x 3/4 | TER0SS0171013Q | 1 | 0.34 |
| 3 | 90 Deg Elbow Long Radius ASME B16.9 BW 3,38 WRS ASTM A403 Gr.WP316/316L | 1 | E90RSS00670100 | 4 | 0.56 |
| 4 | Nipple L=100mm ASME B36.19M THRD-M NPT x PE 2,87 SML ASTM A312 Gr.TP316/316L | 3/4 | N100SS02653Q00 | 1 | 0.15 |
| 5 | Flange WN ASME B16.5 300LB RF 3,38 FRG ASTM A182 Gr.F316/316L | 1 | FLW0SS03270100 | 4 | 7.32 |
| 6 | Flange WN For Jackscrews ASME B16.5 300LB RF 3,38 FRG ASTM A182 Gr.F316/316L | 1 | FLWDSS00770100 | 1 | 1.83 |
| | | | TOTAL FABRICATION WEIGHT | | 16.31 |

ERECTION MATERIALS

| PT NO | COMPONENT DESCRIPTION | N.S. | ITEM CODE | Q.TY | WEIGHT |
|---|---|---|---|---|---|
| 7 | Spectacle Blinds ASME B16.48 THRU BOLTED 300LB RF FPL ASTM A240 Gr.TP316/316L | 1 | BSPESS01580100 | 1 | 0.51 |
| 8 | Cap Forged ASME B16.11 THRD-F NPT 3000# FRG ASTM A182 Gr.F316/316L | 3/4 | CAPFSS00023Q00 | 1 | 0.19 |
| 9 | Gasket Spiral Wound Thk. 3.2 mm ASME B16.20 300LB RF GSK AISI 316 + GRAPHITE c/w INNER RING | 1 | GSW0GK11210100 | 5 | 0.35 |
| 10 | Insulation Kit Ends as per ASME B16.5 300LB RF | 1 | SPIKNN01420100 | 1 | 0.07 |
| 11 | 105 Stud Bolt + 2 Heavy Nuts ASME B1.1 ASTM A193 Gr.B7 - A194 Gr.2H Hot dip galvanized | 5/8 | SB20BO04200300 | 4 | 1.08 |
| 12 | 80 Stud Bolt + 2 Heavy Nuts ASME B1.1 ASTM A193 Gr.B7 - A194 Gr.2H Hot dip galvanized | 5/8 | SB20BO01870300 | 16 | 3.68 |
| 13 | Double Block & Bleed Valve API 6D FLG 300LB RF DA03C01RFH | 1 | VLBBNN07190100 | 1 | 13.50 |
| | INSTRUMENTS | | | | |
| 14 | ON/OFF Ball Actuator Valve - 300#RF Flanged 25-XV-011 | 1 | | 1 | 41.00 |
| | SUPPORTS | | | | |
| 15 | /PS-03014.2 | 1 | | 1 | 0.19 |
| | | | TOTAL ERECTION WEIGHT | | 60.57 |
| | | | TOTAL WEIGHT | | 76.88 |

| REFERENCE DOCUMENTS | |
|---|---|
| 123A90-DDL-PP-RE-70001 | STRESS ANALYSIS REPORT |
| 123A90-DDL-PR-PID-80013 | P&ID |
| 123A90-DDL-MAT-SP-60003 | INSULATION SPECIFICATION |
| 123A90-DDL-MAT-SP-60006 | COATING & PAINTING SPEC. |
| 123A90-DDL-PP-00-72000 | PIPING SUPPORT BOOK |
| 123A90-DDL-PP-SP-70029 | PIPING MATERIAL CLASS |

SYMBOLS LEGEND:
BUTT WELD · THREADED · HEAT TRACING · SOCKET · PIPE SUPPORT · INSULATED

| NDT EXAMINATION | | | |
|---|---|---|---|
| NDT TYPE | % | NDT TYPE | % |
| RT | 100 | VT | 100 |
| INSPECTION CATEGORY | 1 | MT/PT | 100Ratio |
| TESTING | | | |
| TEST FLUID | | TEST PRESS. [barg] | |
| Water | | 60 | |
| PROCESS LINE DATA | | | |
| DESIGN TEMP. [°C] | | DESIGN PRESS. [barg] | |
| -29 | 80 | | 40 |

| INSULATION & PAINTING | | |
|---|---|---|
| INS. TYPE | INS. THK. | INS. SURF. [m²] |
| N | | |
| PAINT SYS. | BASE RAL | PAINT. SURF. [m²] |
| 6A | RAL 9002 | 0.38 |
| HEAT TRACING | | |
| - | | |
| LINE DATA | | |
| STRESS SYS. | PED CAT. | PWHT |
| - | II | No |

| Revision Number | Date | Description | Prepared by | Checked by | Approved by |
|---|---|---|---|---|---|
| 02 | 29/09/25 | AS-BUILT (ASB) | SPS | CBO | CGI |
| 01 | 12/07/24 | ACCEPTED FOR CONSTRUCTION | MMA | CBO | DLO |
| 00 | 07/06/24 | ISSUE FOR REVIEW | MMA | CBO | DLO |

ROSETTI MARINO

# CROSSWIND

DWG TYTLE:

## 1"-HY-017-03HSS-N

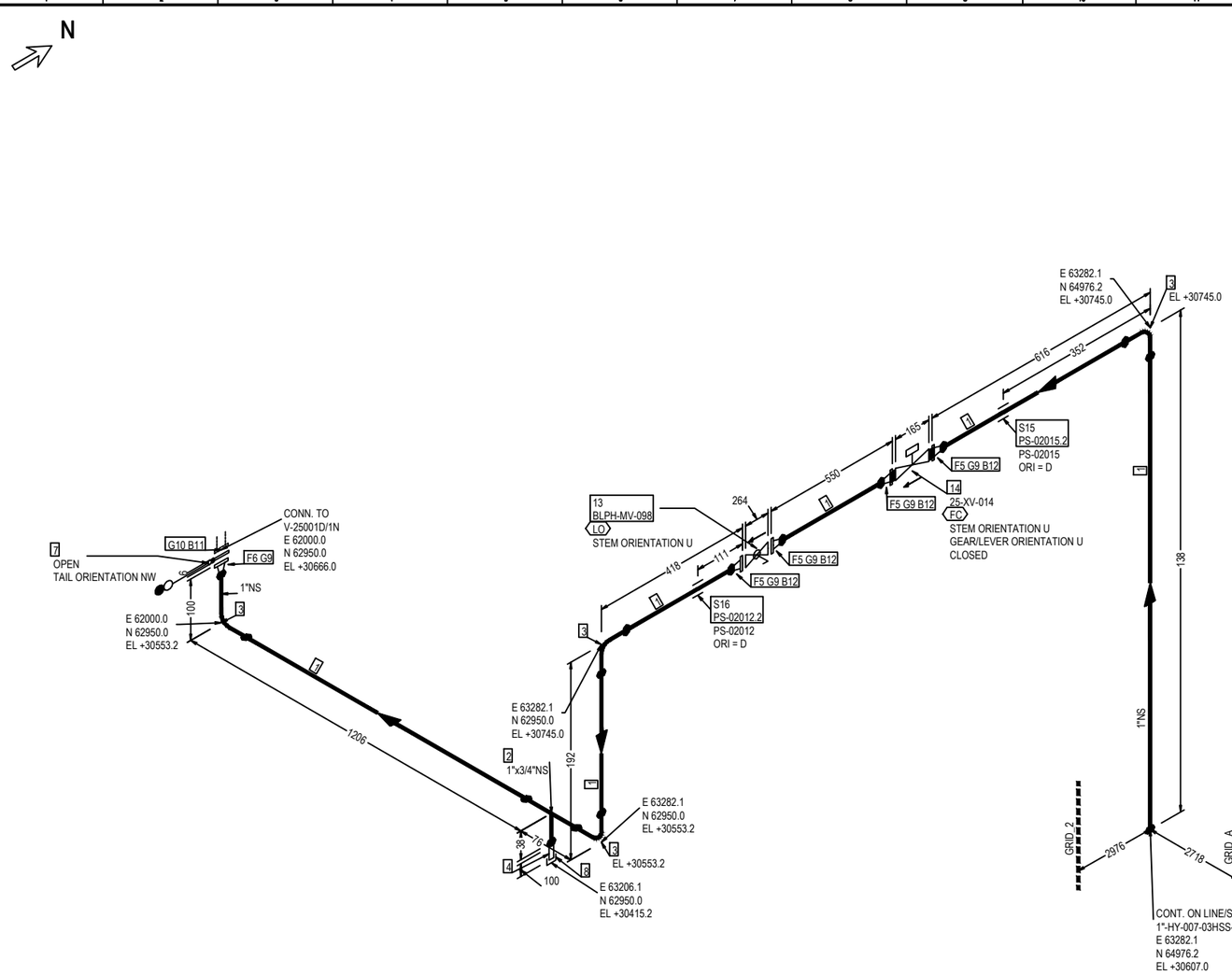
CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK

SCALE N.A.

DRAWN SPS | CHECKED CBO | APPROVED CGI | DATE 29/09/25

SIZE: A3 | DRAWING NO. 123A90-DDL-PP-DI-71000_011 | SHEET 1/1 | REV. 02

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FABRICATION MATERIALS

| PT NO | COMPONENT DESCRIPTION | N.S. | ITEM CODE | Q.TY | WEIGHT |
|---|---|---|---|---|---|
| 1 | Pipe ASME B36.19M PE 3,38 SML ASTM A312 Gr.TP316/316L | 1 | PIPESS00480100 | 2606MM | 6.51 |
| 2 | Tee Reducing ASME B16.9 BW 3,38x2,87 WRS ASTM A403 Gr.WP316/316L | 1 x 3/4 | TER0SS0171013Q | 1 | 0.34 |
| 3 | 90 Deg Elbow Long Radius ASME B16.9 BW 3,38 WRS ASTM A403 Gr.WP316/316L | 1 | E90RSS00670100 | 4 | 0.56 |
| 4 | Nipple L=100mm ASME B36.19M THRD-M NPT x PE 2,87 SML ASTM A312 Gr.TP316/316L | 3/4 | N100SS02653Q00 | 1 | 0.15 |
| 5 | Flange WN ASME B16.5 300LB RF 3,38 FRG ASTM A182 Gr.F316/316L | 1 | FLW0SS03270100 | 4 | 7.32 |
| 6 | Flange WN For Jackscrews ASME B16.5 300LB RF 3,38 FRG ASTM A182 Gr.F316/316L | 1 | FLWDSS00770100 | 1 | 1.83 |
| | | | TOTAL FABRICATION WEIGHT | | 16.71 |

ERECTION MATERIALS

| PT NO | COMPONENT DESCRIPTION | N.S. | ITEM CODE | Q.TY | WEIGHT |
|---|---|---|---|---|---|
| 7 | Spectacle Blinds ASME B16.48 THRU BOLTED 300LB RF FPL ASTM A240 Gr.TP316/316L | 1 | BSPESS01580100 | 1 | 0.51 |
| 8 | Cap Forged ASME B16.11 THRD-F NPT 3000# FRG ASTM A182 Gr.F316/316L | 3/4 | CAPFSS00023Q00 | 1 | 0.19 |
| 9 | Gasket Spiral Wound Thk. 3.2 mm ASME B16.20 300LB RF GSK AISI 316 + GRAPHITE c/w INNER RING | 1 | GSW0GK11210100 | 5 | 0.35 |
| 10 | Insulation Kit Ends as per ASME B16.5 300LB RF | 1 | SPIKNN01420100 | 1 | 0.07 |
| 11 | 105 Stud Bolt + 2 Heavy Nuts ASME B1.1 ASTM A193 Gr.B7 - A194 Gr.2H Hot dip galvanized | 5/8 | SB20BO04200300 | 4 | 1.08 |
| 12 | 80 Stud Bolt + 2 Heavy Nuts ASME B1.1 ASTM A193 Gr.B7 - A194 Gr.2H Hot dip galvanized | 5/8 | SB20BO01870300 | 16 | 3.68 |
| 13 | Double Block & Bleed Valve API 6D FLG 300LB RF DA03C01RFH | 1 | VLBBNN07190100 | 1 | 13.50 |
| | INSTRUMENTS | | | | |
| 14 | ON/OFF Ball Actuator Valve - 300#RF Flanged 25-XV-014 | 1 | | 1 | 41.00 |
| | SUPPORTS | | | | |
| 15 | /PS-02015.2 | 1 | | 1 | 0.19 |
| 16 | /PS-02012.2 | 1 | | 1 | 0.19 |
| | | | TOTAL ERECTION WEIGHT | | 60.76 |
| | | | TOTAL WEIGHT | | 77.47 |

| REFERENCE DOCUMENTS | |
|---|---|
| 123A90-DDL-PP-RE-70001 | STRESS ANALYSIS REPORT |
| 123A90-DDL-PR-PID-80018 | P&ID |
| 123A90-DDL-MAT-SP-60003 | INSULATION SPECIFICATION |
| 123A90-DDL-MAT-SP-60006 | COATING & PAINTING SPEC. |
| 123A90-DDL-PP-00-72000 | PIPING SUPPORT BOOK |
| 123A90-DDL-PP-SP-70029 | PIPING MATERIAL CLASS |

SYMBOLS LEGEND:
BUTT WELD · THREADED · HEAT TRACING · SOCKET · PIPE SUPPORT · INSULATED

| NDT EXAMINATION | | | |
|---|---|---|---|
| NDT TYPE | % | NDT TYPE | % |
| RT | 100 | VT | 100 |
| INSPECTION CATEGORY | 1 | MT/PT | 100Ratio |
| TESTING | | | |
| TEST FLUID | | TEST PRESS.(barg) | |
| Water | | 60 | |
| PROCESS LINE DATA | | | |
| DESIGN TEMP. (°C) | | DESIGN PRESS.(barg) | |
| -29 | 80 | | 40 |

| INSULATION & PAINTING | | |
|---|---|---|
| INS. TYPE | INS. THK. | INS. SURF. (m²) |
| N | | |
| PAINT SYS. | BASE RAL | PAINT. SURF. (m²) |
| 6A | RAL 9002 | 0.39 |
| HEAT TRACING | | |
| - | | |
| LINE DATA | | |
| STRESS SYS. | PED CAT. | PWHT |
| - | II | No |

| Revision Number | Date | Description | Prepared by | Checked by | Approved by |
|---|---|---|---|---|---|
| 02 | 29/09/25 | AS-BUILT (ASB) | SPS | CBO | CGI |
| 01 | 12/07/24 | ACCEPTED FOR CONSTRUCTION | MMA | CBO | DLO |
| 00 | 07/06/24 | ISSUE FOR REVIEW | MMA | CBO | DLO |

ROSETTI MARINO

# CROSSWIND

DWG TYTLE:

## 1"-HY-018-03HSS-N

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK

SCALE N.A.

DRAWN SPS | CHECKED CBO | APPROVED CGI | DATE 29/09/25

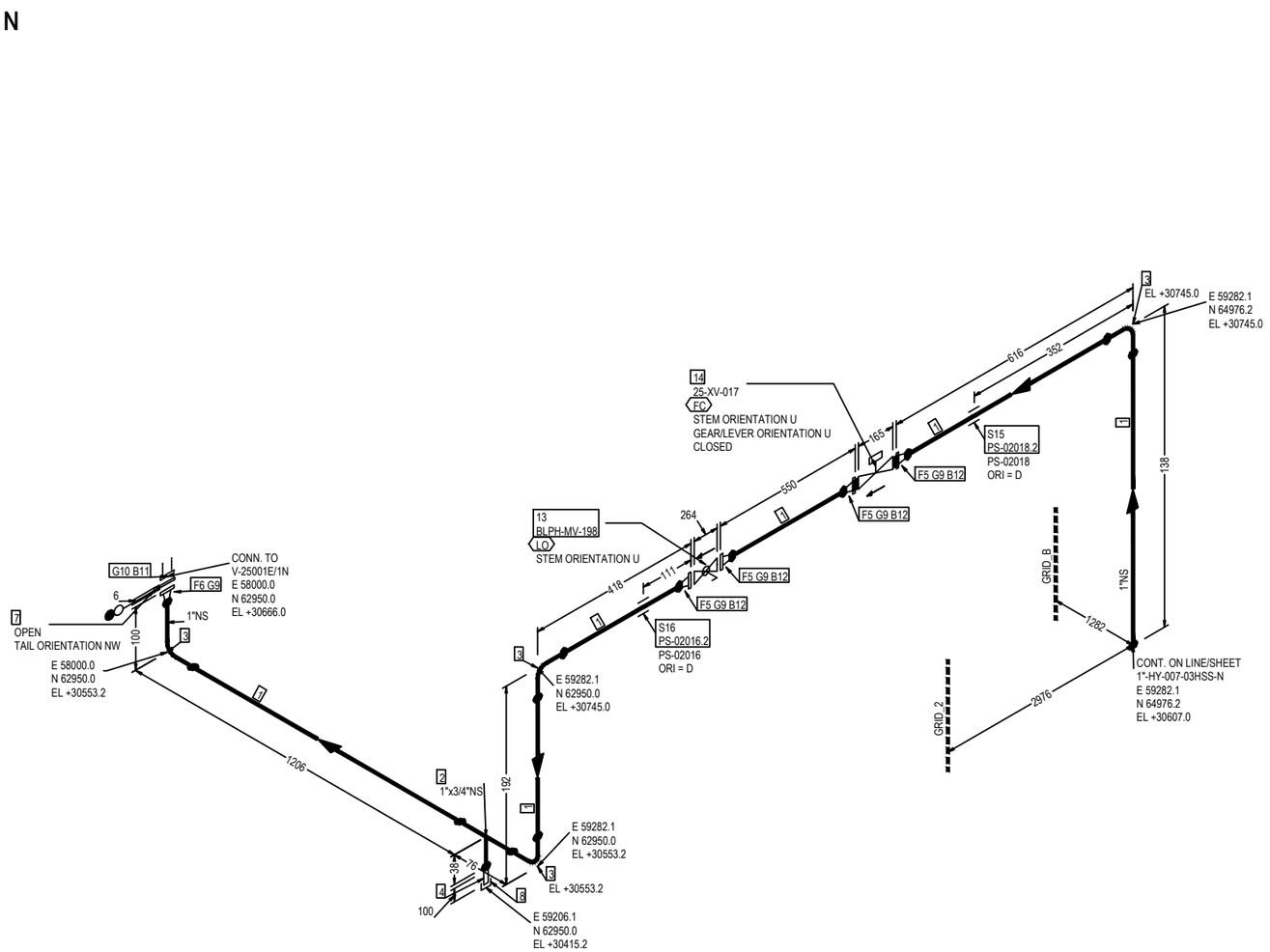
SIZE: A3

DRAWING NO. 123A90-DDL-PP-DI-71000_012

SHEET 1/1

REV. 02

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FABRICATION MATERIALS

| PT NO | COMPONENT DESCRIPTION | N.S. | ITEM CODE | Q.TY | WEIGHT |
|---|---|---|---|---|---|
| 1 | Pipe ASME B36.19M PE 3,38 SML ASTM A312 Gr.TP316/316L | 1 | PIPESS00480100 | 2606MM | 6.51 |
| 2 | Tee Reducing ASME B16.9 BW 3,38x2,87 WRS ASTM A403 Gr.WP316/316L | 1 x 3/4 | TER0SS0171013Q | 1 | 0.34 |
| 3 | 90 Deg Elbow Long Radius ASME B16.9 BW 3,38 WRS ASTM A403 Gr.WP316/316L | 1 | E90RSS00670100 | 4 | 0.56 |
| 4 | Nipple L=100mm ASME B36.19M THRD-M NPT x PE 2,87 SML ASTM A312 Gr.TP316/316L | 3/4 | N100SS02653Q00 | 1 | 0.15 |
| 5 | Flange WN ASME B16.5 300LB RF 3,38 FRG ASTM A182 Gr.F316/316L | 1 | FLW0SS03270100 | 4 | 7.32 |
| 6 | Flange WN For Jackscrews ASME B16.5 300LB RF 3,38 FRG ASTM A182 Gr.F316/316L | 1 | FLWDSS00770100 | 1 | 1.83 |
| | | | TOTAL FABRICATION WEIGHT | | 16.71 |

ERECTION MATERIALS

| PT NO | COMPONENT DESCRIPTION | N.S. | ITEM CODE | Q.TY | WEIGHT |
|---|---|---|---|---|---|
| 7 | Spectacle Blinds ASME B16.48 THRU BOLTED 300LB RF FPL ASTM A240 Gr.TP316/316L | 1 | BSPESS01580100 | 1 | 0.51 |
| 8 | Cap Forged ASME B16.11 THRD-F NPT 3000# FRG ASTM A182 Gr.F316/316L | 3/4 | CAPFSS00023Q00 | 1 | 0.19 |
| 9 | Gasket Spiral Wound Thk. 3.2 mm ASME B16.20 300LB RF GSK AISI 316 + GRAPHITE c/w INNER RING | 1 | GSW0GK11210100 | 5 | 0.35 |
| 10 | Insulation Kit Ends as per ASME B16.5 300LB RF | 1 | SPIKNN01420100 | 1 | 0.07 |
| 11 | 105 Stud Bolt + 2 Heavy Nuts ASME B1.1 ASTM A193 Gr.B7 - A194 Gr.2H Hot dip galvanized | 5/8 | SB20BO04200300 | 4 | 1.08 |
| 12 | 80 Stud Bolt + 2 Heavy Nuts ASME B1.1 ASTM A193 Gr.B7 - A194 Gr.2H Hot dip galvanized | 5/8 | SB20BO01870300 | 16 | 3.68 |
| 13 | Double Block & Bleed Valve API 6D FLG 300LB RF DA03C01RFH | 1 | VLBBNN07190100 | 1 | 13.50 |
| | INSTRUMENTS | | | | |
| 14 | ON/OFF Ball Actuator Valve - 300#RF Flanged 25-XV-017 | 1 | | 1 | 41.00 |
| | SUPPORTS | | | | |
| 15 | /PS-02018.2 | 1 | | 1 | 0.19 |
| 16 | /PS-02016.2 | 1 | | 1 | 0.19 |
| | | | TOTAL ERECTION WEIGHT | | 60.76 |
| | | | TOTAL WEIGHT | | 77.47 |

| REFERENCE DOCUMENTS | |
|---|---|
| 123A90-DDL-PP-RE-70001 | STRESS ANALYSIS REPORT |
| 123A90-DDL-PR-PID-80019 | P&ID |
| 123A90-DDL-MAT-SP-60003 | INSULATION SPECIFICATION |
| 123A90-DDL-MAT-SP-60006 | COATING & PAINTING SPEC. |
| 123A90-DDL-PP-00-72000 | PIPING SUPPORT BOOK |
| 123A90-DDL-PP-SP-70029 | PIPING MATERIAL CLASS |

SYMBOLS LEGEND:
BUTT WELD · THREADED · HEAT TRACING · SOCKET · PIPE SUPPORT · INSULATED

| NDT EXAMINATION | | | | INSULATION & PAINTING | | |
|---|---|---|---|---|---|---|
| NDT TYPE | % | NDT TYPE | % | INS. TYPE | INS. THK. | INS. SURF. (m²) |
| RT | 100 | VT | 100 | N | | |
| INSPECTION CATEGORY | 1 | MT/PT | 100Ratio | PAINT SYS. | BASE RAL | PAINT. SURF. (m²) |
| TESTING | | | | 6A | RAL 9002 | 0.39 |
| TEST FLUID | | TEST PRESS. (barg) | | HEAT TRACING | | |
| Water | | 60 | | - | | |
| PROCESS LINE DATA | | | | LINE DATA | | |
| DESIGN TEMP. (°C) | | DESIGN PRESS. (barg) | | STRESS SYS. | PED CAT. | PWHT |
| -29 | 80 | | 40 | - | II | No |

| Revision Number | Date | Description | Prepared by | Checked by | Approved by |
|---|---|---|---|---|---|
| 02 | 29/09/25 | AS-BUILT (ASB) | SPS | CBO | CGI |
| 01 | 12/07/24 | ACCEPTED FOR CONSTRUCTION | MMA | CBO | DLO |
| 00 | 07/06/24 | ISSUE FOR REVIEW | MMA | CBO | DLO |

ROSETTI MARINO

# CROSSWIND

DWG TYTLE:

## 1"-HY-019-03HSS-N

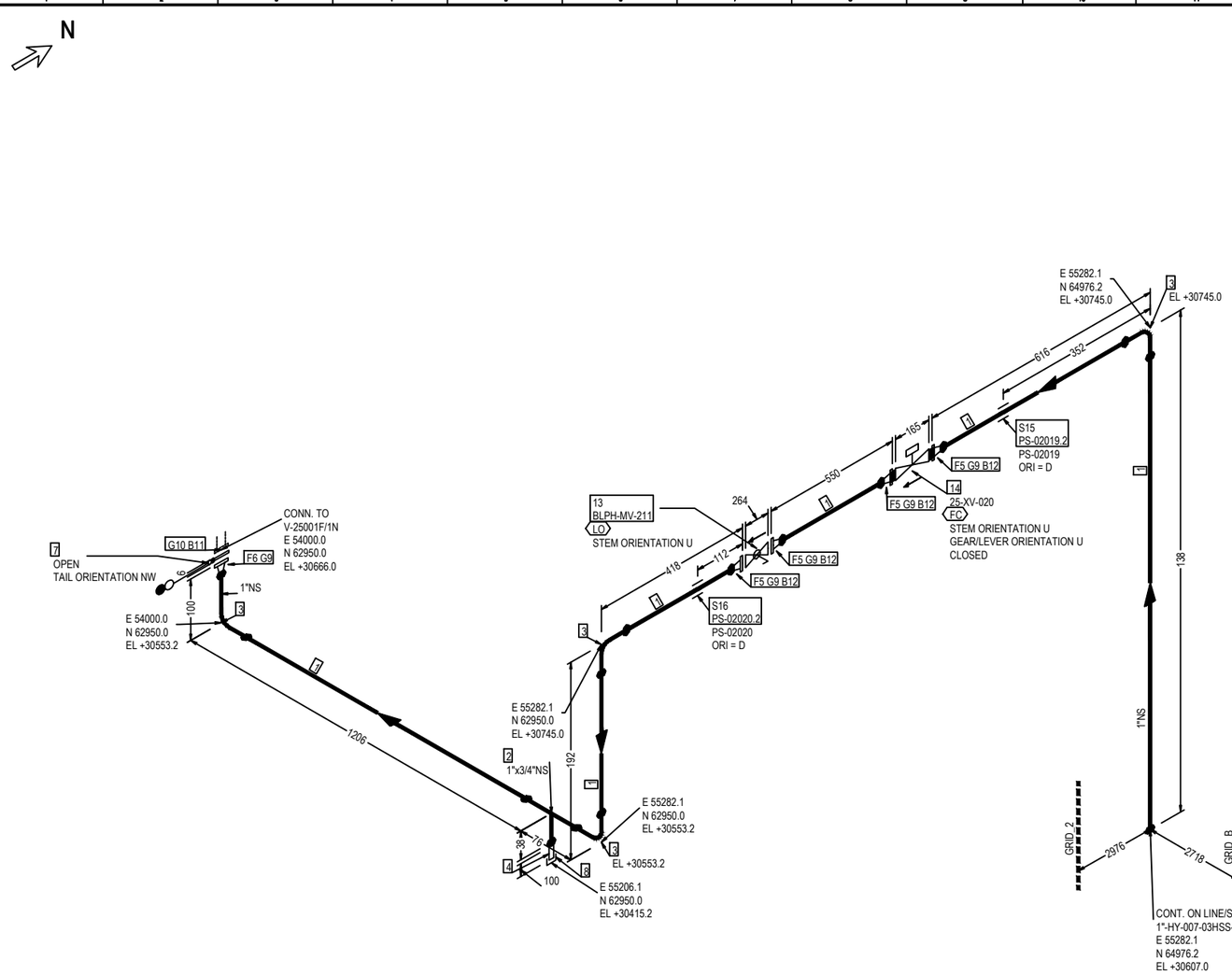
CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK

SCALE N.A.

DRAWN SPS | CHECKED CBO | APPROVED CGI | DATE 29/09/25

SIZE: A3 | DRAWING NO. 123A90-DDL-PP-DI-71000_013 | SHEET 1/1 | REV. 02

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FABRICATION MATERIALS

| PT NO | COMPONENT DESCRIPTION | N.S. | ITEM CODE | Q.TY | WEIGHT |
|---|---|---|---|---|---|
| 1 | Pipe ASME B36.19M PE 3,38 SML ASTM A312 Gr.TP316/316L | 1 | PIPESS00480100 | 2606MM | 6.51 |
| 2 | Tee Reducing ASME B16.9 BW 3,38x2,87 WRS ASTM A403 Gr.WP316/316L | 1 x 3/4 | TER0SS0171013Q | 1 | 0.34 |
| 3 | 90 Deg Elbow Long Radius ASME B16.9 BW 3,38 WRS ASTM A403 Gr.WP316/316L | 1 | E90RSS00670100 | 4 | 0.56 |
| 4 | Nipple L=100mm ASME B36.19M THRD-M NPT x PE 2,87 SML ASTM A312 Gr.TP316/316L | 3/4 | N100SS02653Q00 | 1 | 0.15 |
| 5 | Flange WN ASME B16.5 300LB RF 3,38 FRG ASTM A182 Gr.F316/316L | 1 | FLW0SS03270100 | 4 | 7.32 |
| 6 | Flange WN For Jackscrews ASME B16.5 300LB RF 3,38 FRG ASTM A182 Gr.F316/316L | 1 | FLWDSS00770100 | 1 | 1.83 |
| | | | TOTAL FABRICATION WEIGHT | | 16.71 |

ERECTION MATERIALS

| PT NO | COMPONENT DESCRIPTION | N.S. | ITEM CODE | Q.TY | WEIGHT |
|---|---|---|---|---|---|
| 7 | Spectacle Blinds ASME B16.48 THRU BOLTED 300LB RF FPL ASTM A240 Gr.TP316/316L | 1 | BSPESS01580100 | 1 | 0.51 |
| 8 | Cap Forged ASME B16.11 THRD-F NPT 3000# FRG ASTM A182 Gr.F316/316L | 3/4 | CAPFSS00023Q00 | 1 | 0.19 |
| 9 | Gasket Spiral Wound Thk. 3.2 mm ASME B16.20 300LB RF GSK AISI 316 + GRAPHITE c/w INNER RING | 1 | GSW0GK11210100 | 5 | 0.35 |
| 10 | Insulation Kit Ends as per ASME B16.5 300LB RF | 1 | SPIKNN01420100 | 1 | 0.07 |
| 11 | 105 Stud Bolt + 2 Heavy Nuts ASME B1.1 ASTM A193 Gr.B7 - A194 Gr.2H Hot dip galvanized | 5/8 | SB20BO04200300 | 4 | 1.08 |
| 12 | 80 Stud Bolt + 2 Heavy Nuts ASME B1.1 ASTM A193 Gr.B7 - A194 Gr.2H Hot dip galvanized | 5/8 | SB20BO01870300 | 16 | 3.68 |
| 13 | Double Block & Bleed Valve API 6D FLG 300LB RF DA03C01RFH | 1 | VLBBNN07190100 | 1 | 13.50 |
| | INSTRUMENTS | | | | |
| 14 | ON/OFF Ball Actuator Valve - 300#RF Flanged 25-XV-020 | 1 | | 1 | 41.00 |
| | SUPPORTS | | | | |
| 15 | /PS-02019.2 | 1 | | 1 | 0.19 |
| 16 | /PS-02020.2 | 1 | | 1 | 0.19 |
| | | | TOTAL ERECTION WEIGHT | | 60.76 |
| | | | TOTAL WEIGHT | | 77.47 |

| REFERENCE DOCUMENTS | |
|---|---|
| 123A90-DDL-PP-RE-70001 | STRESS ANALYSIS REPORT |
| 123A90-DDL-PR-PID-80013 | P&ID |
| 123A90-DDL-MAT-SP-60003 | INSULATION SPECIFICATION |
| 123A90-DDL-MAT-SP-60006 | COATING & PAINTING SPEC. |
| 123A90-DDL-PP-00-72000 | PIPING SUPPORT BOOK |
| 123A90-DDL-PP-SP-70029 | PIPING MATERIAL CLASS |

SYMBOLS LEGEND:
BUTT WELD · THREADED · HEAT TRACING · SOCKET · PIPE SUPPORT · INSULATED

| NDT EXAMINATION | | | |
|---|---|---|---|
| NDT TYPE | % | NDT TYPE | % |
| RT | 100 | VT | 100 |
| INSPECTION CATEGORY | 1 | MT/PT | 100Ratio |
| TESTING | | | |
| TEST FLUID | | TEST PRESS. [barg] | |
| Water | | 60 | |
| PROCESS LINE DATA | | | |
| DESIGN TEMP. [°C] | | DESIGN PRESS. [barg] | |
| -29 | 80 | | 40 |

| INSULATION & PAINTING | | |
|---|---|---|
| INS. TYPE | INS. THK. | INS. SURF. [m²] |
| N | | |
| PAINT SYS. | BASE RAL | PAINT. SURF. [m²] |
| 6A | RAL 9002 | 0.39 |
| HEAT TRACING | | |
| - | | |
| LINE DATA | | |
| STRESS SYS. | PED CAT. | PWHT |
| - | II | No |

| Revision Number | Date | Description | Prepared by | Checked by | Approved by |
|---|---|---|---|---|---|
| 02 | 29/09/25 | AS-BUILT (ASB) | SPS | CBO | CGI |
| 01 | 12/07/24 | ACCEPTED FOR CONSTRUCTION | MMA | CBO | DLO |
| 00 | 07/06/24 | ISSUE FOR REVIEW | MMA | CBO | DLO |

ROSETTI MARINO

# CROSSWIND

DWG TYTLE:

## 1"-HY-020-03HSS-N

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK

SCALE N.A.

DRAWN SPS | CHECKED CBO | APPROVED CGI | DATE 29/09/25

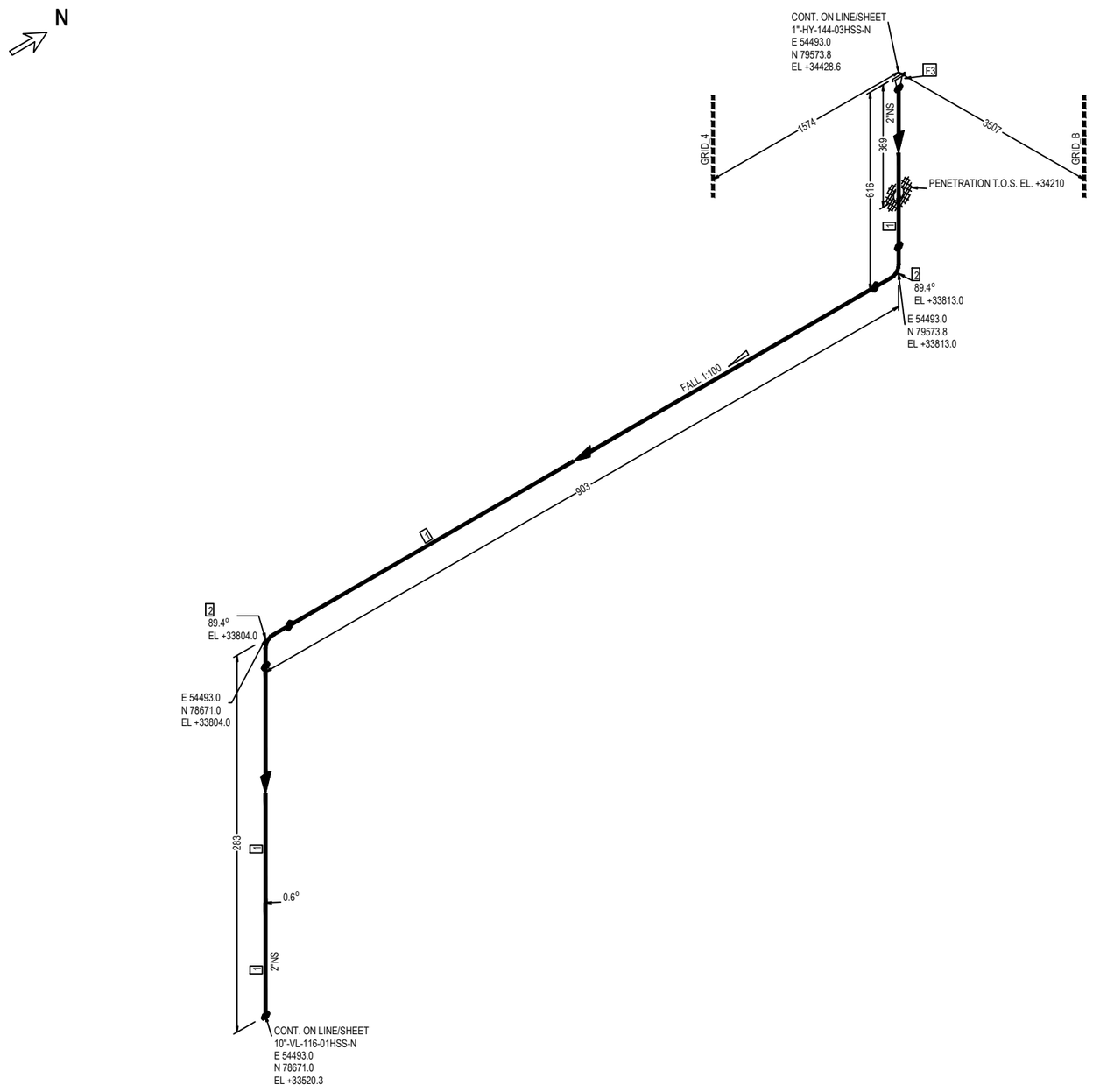
SIZE: A3

DRAWING NO. 123A90-DDL-PP-DI-71000_014

SHEET 1/1

REV. 02

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FABRICATION MATERIALS

| PT NO | COMPONENT DESCRIPTION | N.S. | ITEM CODE | Q.TY | WEIGHT |
|---|---|---|---|---|---|
| 1 | Pipe ASME B36.19M PE 2,77 SML ASTM A312 Gr.TP316/316L | 2 | PIPESS00540200 | 1431MM | 5.72 |
| 2 | 90 Deg Elbow Long Radius ASME B16.9 BW 2,77 WRS ASTM A403 Gr.WP316/316L | 2 | E90RSS00010200 | 2 | 0.94 |
| 3 | Flange WN ASME B16.5 300LB RF 2,77 FRG ASTM A182 Gr.F316/316L | 2 | FLW0SS00180200 | 1 | 4.16 |
| | | | TOTAL FABRICATION WEIGHT | | 10.82 |

| REFERENCE DOCUMENTS | |
|---|---|
| 123A90-DDL-PP-RE-70001 | STRESS ANALYSIS REPORT |
| 123A90-DDL-PR-PID-80014 | P&ID |
| 123A90-DDL-MAT-SP-60003 | INSULATION SPECIFICATION |
| 123A90-DDL-MAT-SP-60006 | COATING & PAINTING SPEC. |
| 123A90-DDL-PP-00-72000 | PIPING SUPPORT BOOK |
| 123A90-DDL-PP-SP-70029 | PIPING MATERIAL CLASS |

SYMBOLS LEGEND:
BUTT WELD — THREADED — HEAT TRACING
SOCKET — PIPE SUPPORT — INSULATED

| NDT EXAMINATION | | | |
|---|---|---|---|
| NDT TYPE | % | NDT TYPE | % |
| RT | 100 | VT | 100 |
| INSPECTION CATEGORY | 1 | MT/PT | 100Ratio |
| TESTING | | | |
| TEST FLUID | | TEST PRESS. (barg) | |
| Water | | 5.25 | |
| PROCESS LINE DATA | | | |
| DESIGN TEMP. (°C) | | DESIGN PRESS. (barg) | |
| -29 | 100 | | 3.5 |

| INSULATION & PAINTING | | |
|---|---|---|
| INS. TYPE | INS. THK. | INS. SURF. (m²) |
| N | | |
| PAINT SYS. | BASE RAL | PAINT. SURF. (m²) |
| 6A | RAL 9002 | 0.33 |
| HEAT TRACING | | |
| - | | |
| LINE DATA | | |
| STRESS SYS. | PED CAT. | PWHT |
| - | I | No |

| Revision Number | Date | Description | Prepared by | Checked by | Approved by |
|---|---|---|---|---|---|
| 02 | 29/09/25 | AS-BUILT (ASB) | SPS | CBO | CGI |
| 01 | 12/07/24 | ACCEPTED FOR CONSTRUCTION | MMA | CBO | DLO |
| 00 | 07/06/24 | ISSUE FOR REVIEW | MMA | CBO | DLO |

ROSETTI MARINO

# CROSSWIND

DWG TYTLE:

## 2"-VL-022-01HSS-N

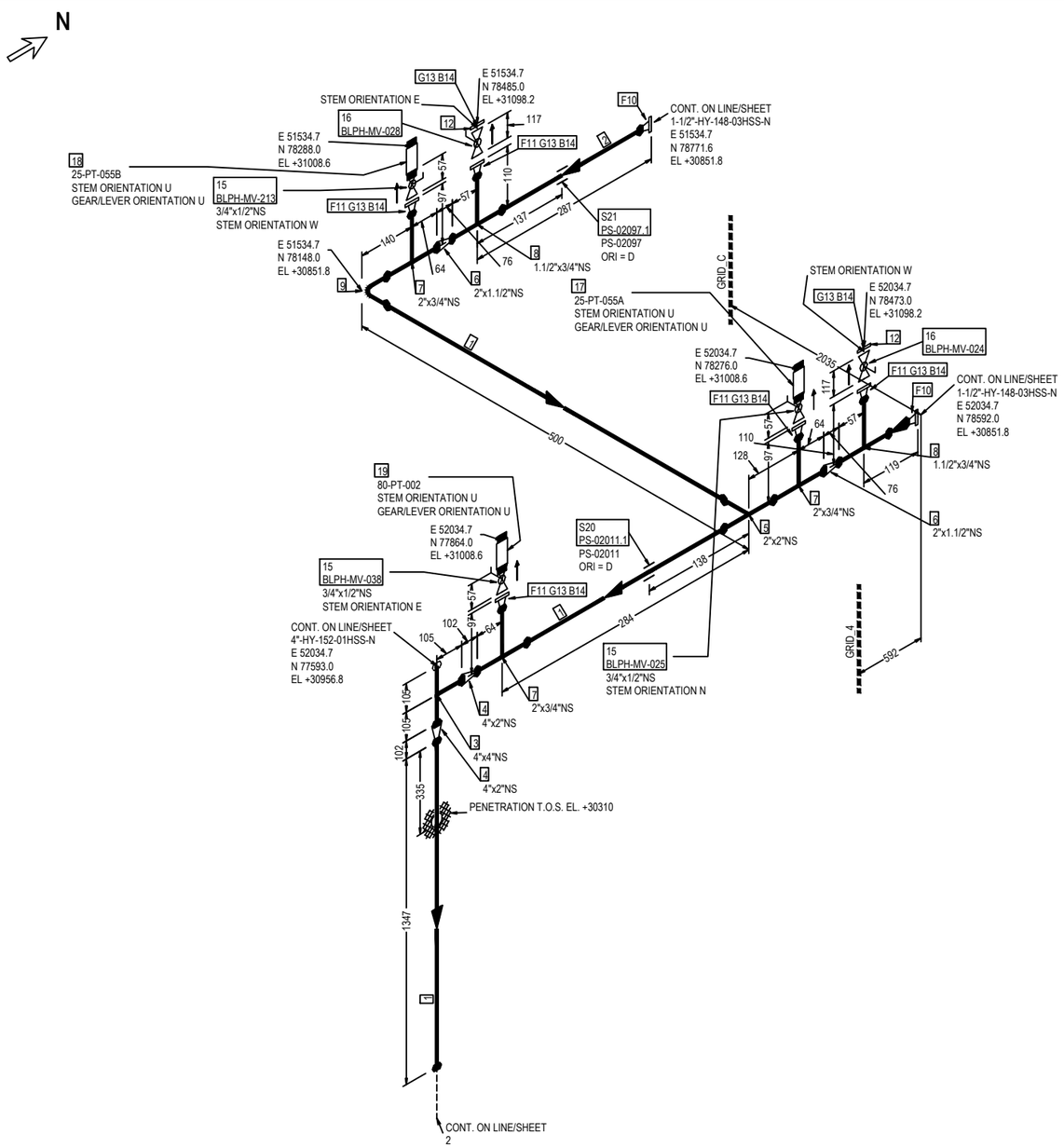
CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK

SCALE N.A.

DRAWN SPS | CHECKED CBO | APPROVED CGI | DATE 29/09/25

SIZE: A3 | DRAWING NO. 123A90-DDL-PP-DI-71000_015 | SHEET 1/1 | REV. 02

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FABRICATION MATERIALS

| PT NO | COMPONENT DESCRIPTION | N.S. | ITEM CODE | Q.TY | WEIGHT |
|---|---|---|---|---|---|
| 1 | Pipe ASME B36.19M PE 2,77 SML ASTM A312 Gr.TP316/316L | 2 | PIPESS00540200 | 1863MM | 7.45 |
| 2 | Pipe ASME B36.19M PE 3,68 SML ASTM A312 Gr.TP316/316L | 1.1/2 | PIPESS00531H00 | 161MM | 0.66 |
| 3 | Tee ASME B16.9 BW 3,05 WRS ASTM A403 Gr.WP316/316L | 4 x 4 | TEE0SS00060400 | 1 | 2.73 |
| 4 | Reducer Concentric ASME B16.9 BW 3,05x2,77 WRS ASTM A403 Gr.WP316/316L | 4 x 2 | REC0SS02900402 | 2 | 1.40 |
| 5 | Tee ASME B16.9 BW 2,77 WRS ASTM A403 Gr.WP316/316L | 2 x 2 | TEE0SS00010200 | 1 | 1.07 |
| 6 | Reducer Concentric ASME B16.9 BW 2,77x3,68 WRS ASTM A403 Gr.WP316/316L | 2 x 1.1/2 | REC0SS0280021H | 2 | 0.62 |
| 7 | Tee Reducing ASME B16.9 BW 2,77x2,87 WRS ASTM A403 Gr.WP316/316L | 2 x 3/4 | TER0SS0318023Q | 3 | 2.79 |
| 8 | Tee Reducing ASME B16.9 BW 3,68x2,87 WRS ASTM A403 Gr.WP316/316L | 1.1/2 x 3/4 | TER0SS03751H3Q | 2 | 1.50 |
| 9 | 90 Deg Elbow Long Radius ASME B16.9 BW 2,77 WRS ASTM A403 Gr.WP316/316L | 2 | E90RSS00010200 | 1 | 0.47 |
| 10 | Flange WN ASME B16.5 300LB RF 3,68 FRG ASTM A182 Gr.F316/316L | 1.1/2 | FLW0SS03481H00 | 2 | 6.50 |
| 11 | Flange WN ASME B16.5 150LB RF 2,87 FRG ASTM A182 Gr.F316/316L | 3/4 | FLW0SS00923Q00 | 5 | 4.55 |
| | | | TOTAL FABRICATION WEIGHT | | 29.74 |

ERECTION MATERIALS

| PT NO | COMPONENT DESCRIPTION | N.S. | ITEM CODE | Q.TY | WEIGHT |
|---|---|---|---|---|---|
| 12 | Flange Blind ASME B16.5 150LB RF FRG ASTM A182 Gr.F316/316L | 3/4 | FLB0SS00483Q00 | 2 | 1.82 |
| 13 | Gasket Spiral Wound Thk. 3.2 mm ASME B16.20 150LB RF GSK AISI 316 + GRAPHITE c/w INNER RING | 3/4 | GSW0GK11093Q00 | 7 | 0.35 |
| 14 | 65 Stud Bolt + 2 Heavy Nuts ASME B1.1 ASTM A193 Gr.B7 - A194 Gr.2H Hot dip galvanized | 1/2 | SB20BO01080200 | 28 | 3.36 |
| 15 | Monoflange Block & Bleed Valve API 6D FLG x THRD-F NPT 150LB RF MS01C02YH | 3/4 x 1/2 | VLBNNN00023Q0H | 3 | 12.90 |
| 16 | Ball Valve Split Body FB API 6D FLG 150LB RF BS01C01RFH | 3/4 | VBC0NN24343Q00 | 2 | 10.60 |
| | INSTRUMENTS | | | | |
| 17 | Pressure Transmitter - Online 25-PT-055A | 1/2 | | 1 | --- |
| 18 | Pressure Transmitter - Online 25-PT-055B | 1/2 | | 1 | --- |
| 19 | Pressure Transmitter - Online 80-PT-002 | 1/2 | | 1 | --- |
| | SUPPORTS | | | | |
| 20 | /PS-02011.1 | 2 | | 1 | 0.33 |
| 21 | /PS-02097.1 | 1.1/2 | | 1 | 0.29 |
| | | | TOTAL ERECTION WEIGHT | | 29.65 |
| | | | TOTAL WEIGHT | | 59.39 |

| REFERENCE DOCUMENTS | |
|---|---|
| 123A90-DDL-PP-RE-70001 | STRESS ANALYSIS REPORT |
| 123A90-DDL-PR-PID-80014 | P&ID |
| 123A90-DDL-MAT-SP-60003 | INSULATION SPECIFICATION |
| 123A90-DDL-MAT-SP-60006 | COATING & PAINTING SPEC. |
| 123A90-DDL-PP-00-72000 | PIPING SUPPORT BOOK |
| 123A90-DDL-PP-SP-70029 | PIPING MATERIAL CLASS |

SYMBOLS LEGEND:
BUTT WELD · THREADED · HEAT TRACING · SOCKET · PIPE SUPPORT · INSULATED

| NDT EXAMINATION | | | |
|---|---|---|---|
| NDT TYPE | % | NDT TYPE | % |
| RT | 100 | VT | 100 |
| INSPECTION CATEGORY | 1 | MT/PT | 100Ratio |
| TESTING | | | |
| TEST FLUID | | TEST PRESS. (barg) | |
| Water | | 15 | |
| PROCESS LINE DATA | | | |
| DESIGN TEMP. (°C) | | DESIGN PRESS. (barg) | |
| -29 | 100 | | 10 |

| INSULATION & PAINTING | | |
|---|---|---|
| INS. TYPE | INS. THK. | INS. SURF. (m²) |
| N | | |
| PAINT SYS. | BASE RAL | PAINT. SURF. (m²) |
| 6A | RAL 9002 | 4.21 |
| HEAT TRACING | | |
| - | | |
| LINE DATA | | |
| STRESS SYS. | PED CAT. | PWHT |
| - | I | No |

| Revision Number | Date | Description | Prepared by | Checked by | Approved by |
|---|---|---|---|---|---|
| 02 | 29/09/25 | AS-BUILT (ASB) | SPS | CBO | CGI |
| 01 | 12/07/24 | ACCEPTED FOR CONSTRUCTION | MMA | CBO | DLO |
| 00 | 07/06/24 | ISSUE FOR REVIEW | MMA | CBO | DLO |

ROSETTI MARINO

# CROSSWIND

DWG TYTLE:

## 2"-HY-023-01HSS-N

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK

SCALE N.A.

DRAWN SPS | CHECKED CBO | APPROVED CGI | DATE 29/09/25

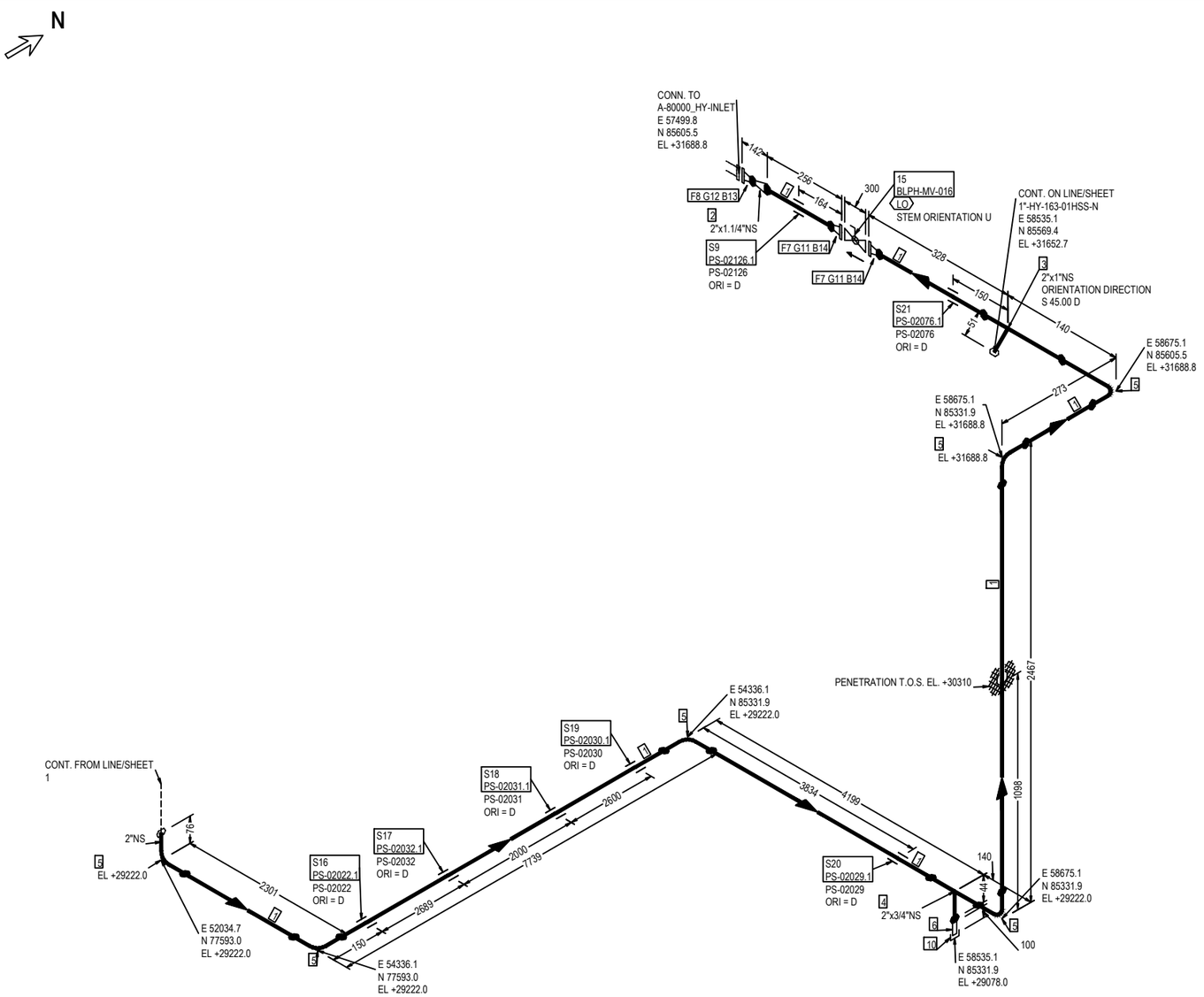
SIZE: A3

DRAWING NO. 123A90-DDL-PP-DI-71000_016

SHEET 1/2

REV. 02

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FABRICATION MATERIALS

| PT NO | COMPONENT DESCRIPTION | N.S. | ITEM CODE | Q.TY | WEIGHT |
|---|---|---|---|---|---|
| 1 | Pipe ASME B36.19M PE 2,77 SML ASTM A312 Gr.TP316/316L | 2 | PIPESS00540200 | 16623MM | 66.49 |
| 2 | Reducer Concentric ASME B16.9 BW 2,77x2,77 WRS ASTM A403 Gr.WP316/316L | 2 x 1.1/4 | REC0SS101002UQ | 1 | 0.31 |
| 3 | Tee Reducing ASME B16.9 BW 2,77x3,38 WRS ASTM A403 Gr.WP316/316L | 2 x 1 | TER0SS03230201 | 1 | 0.96 |
| 4 | Tee Reducing ASME B16.9 BW 2,77x2,87 WRS ASTM A403 Gr.WP316/316L | 2 x 3/4 | TER0SS0318023Q | 1 | 0.93 |
| 5 | 90 Deg Elbow Long Radius ASME B16.9 BW 2,77 WRS ASTM A403 Gr.WP316/316L | 2 | E90RSS00010200 | 6 | 2.82 |
| 6 | Nipple L=100mm ASME B36.19M THRD-M NPT x PE 2,87 SML ASTM A312 Gr.TP316/316L | 3/4 | N100SS02653Q00 | 1 | 0.15 |
| 7 | Flange WN ASME B16.5 150LB RF 2,77 FRG ASTM A182 Gr.F316/316L | 2 | FLW0SS00010200 | 2 | 5.48 |
| 8 | Flange WN ASME B16.5 300LB RF 2,77 FRG ASTM A182 Gr.F316/316L | 1.1/4 | FLW0SS0765UQ00 | 1 | 2.33 |
| | SUPPORTS | | | | |
| 9 | /PS-02126.1 | 2 | | 1 | 0.33 |
| | | | | TOTAL FABRICATION WEIGHT | 79.80 |

ERECTION MATERIALS

| PT NO | COMPONENT DESCRIPTION | N.S. | ITEM CODE | Q.TY | WEIGHT |
|---|---|---|---|---|---|
| 10 | Cap Forged ASME B16.11 THRD-F NPT 3000# FRG ASTM A182 Gr.F316/316L | 3/4 | CAPFSS00023Q00 | 1 | 0.19 |
| 11 | Gasket Spiral Wound Thk. 3.2 mm ASME B16.20 150LB RF GSK AISI 316 + GRAPHITE c/w INNER RING | 2 | GSW0GK11130200 | 2 | 0.20 |
| 12 | Gasket Spiral Wound Thk. 3.2 mm ASME B16.20 300LB RF GSK AISI 316 + GRAPHITE c/w INNER RING | 1.1/4 | GSW0GK1130UQ00 | 1 | 0.01 |
| 13 | 90 Stud Bolt + 2 Heavy Nuts ASME B1.1 ASTM A193 Gr.B7 - A194 Gr.2H Hot dip galvanized | 5/8 | SB20BO04190300 | 4 | 1.00 |
| 14 | 85 Stud Bolt + 2 Heavy Nuts ASME B1.1 ASTM A193 Gr.B7 - A194 Gr.2H Hot dip galvanized | 5/8 | SB20BO00660300 | 8 | 1.92 |
| 15 | Block & Bleed Valve API 6D FLG 150LB RF BA01C01RFHS | 2 | VLBLNN01430200 | 1 | 31.50 |
| | SUPPORTS | | | | |
| 16 | /PS-02022.1 | 2 | | 1 | 0.33 |
| 17 | /PS-02032.1 | 2 | | 1 | 0.33 |
| 18 | /PS-02031.1 | 2 | | 1 | 0.33 |
| 19 | /PS-02030.1 | 2 | | 1 | 0.33 |
| 20 | /PS-02029.1 | 2 | | 1 | 0.33 |
| 21 | /PS-02076.1 | 2 | | 1 | 0.33 |
| | | | | TOTAL ERECTION WEIGHT | 36.80 |
| | | | | TOTAL WEIGHT | 116.60 |

| REFERENCE DOCUMENTS | |
|---|---|
| 123A90-DDL-PP-RE-70001 | STRESS ANALYSIS REPORT |
| 123A90-DDL-PR-PID-80014 | P&ID |
| 123A90-DDL-MAT-SP-60003 | INSULATION SPECIFICATION |
| 123A90-DDL-MAT-SP-60006 | COATING & PAINTING SPEC. |
| 123A90-DDL-PP-00-72000 | PIPING SUPPORT BOOK |
| 123A90-DDL-PP-SP-70029 | PIPING MATERIAL CLASS |

SYMBOLS LEGEND:
BUTT WELD · THREADED · HEAT TRACING · SOCKET · PIPE SUPPORT · INSULATED

| NDT EXAMINATION | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NDT TYPE | % | NDT TYPE | % | | | | | | | | | | | |
| RT | 100 | VT | 100 | | | | | | | | | | | |
| INSPECTION CATEGORY | 1 | MT/PT | 100Ratio | | | | | | | | | | | |
| TESTING | | | | | | | | | | | | | | |
| TEST FLUID | | TEST PRESS. [barg] | | | | | | | | | | | | |
| Water | | 15 | | | | | | | | | | | | |
| PROCESS LINE DATA | | | | | | | | | | | | | | |
| DESIGN TEMP. [°C] | | | | DESIGN PRESS. [barg] | | | | | | | | | | |
| -29 | 100 | | | 10 | | | | | | | | | | |

| INSULATION & PAINTING | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| INS. TYPE | INS. THK. | INS. SURF. [m²] | | | | | | | | | | | | |
| N | | | | | | | | | | | | | | |
| PAINT SYS. | BASE RAL | PAINT. SURF. [m²] | | | | | | | | | | | | |
| 6A | RAL 9002 | SEE Sh1 | | | | | | | | | | | | |
| HEAT TRACING | | | | | | | | | | | | | | |
| - | | | | | | | | | | | | | | |
| LINE DATA | | | | | | | | | | | | | | |
| STRESS SYS. | PED CAT. | PWHT | | | | | | | | | | | | |
| - | I | No | | | | | | | | | | | | |

| Revision Number | Date | Description | Prepared by | Checked by | Approved by |
|---|---|---|---|---|---|
| 02 | 29/09/25 | AS-BUILT (ASB) | SPS | CBO | CGI |
| 01 | 12/07/24 | ACCEPTED FOR CONSTRUCTION | MMA | CBO | DLO |
| 00 | 07/06/24 | ISSUE FOR REVIEW | MMA | CBO | DLO |

ROSETTI MARINO

CROSSWIND

DWG TYTLE:

# 2"-HY-023-01HSS-N

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK

SCALE N.A.

DRAWN SPS | CHECKED CBO | APPROVED CGI | DATE 29/09/25

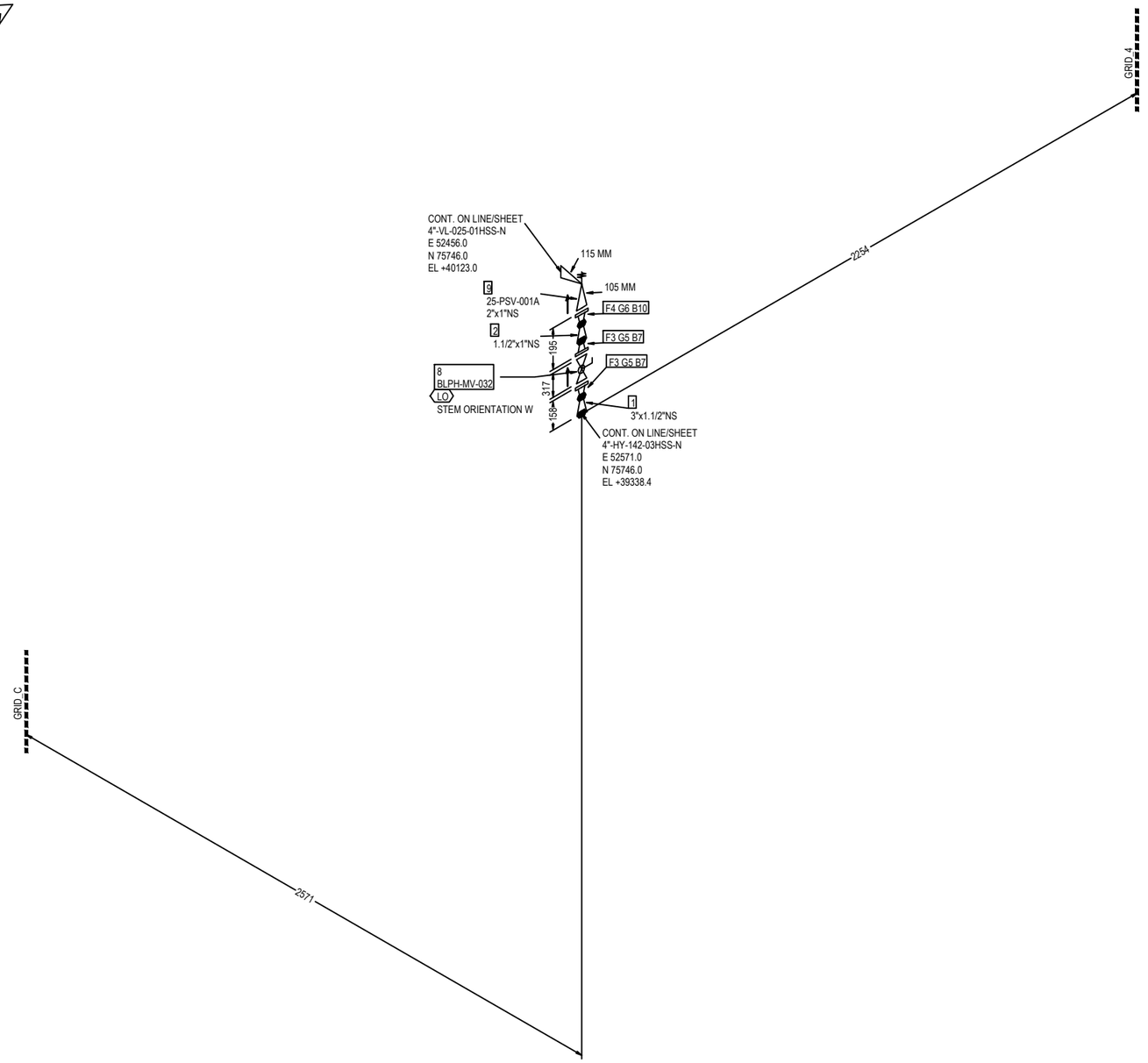
SIZE: A3

DRAWING NO. 123A90-DDL-PP-DI-71000_016

SHEET 2/2

REV. 02

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FABRICATION MATERIALS

| PT NO | COMPONENT DESCRIPTION | N.S. | ITEM CODE | Q.TY | WEIGHT |
|---|---|---|---|---|---|
| 1 | Reducer Concentric ASME B16.9 BW 3,05x3,68 WRS ASTM A403 Gr.WP316/316L | 3 x 1.1/2 | REC0SS0128031H | 1 | 0.48 |
| 2 | Reducer Concentric ASME B16.9 BW 3,68x3,38 WRS ASTM A403 Gr.WP316/316L | 1.1/2 x 1 | REC0SS03191H01 | 1 | 0.26 |
| 3 | Flange WN ASME B16.5 300LB RF 3,68 FRG ASTM A182 Gr.F316/316L | 1.1/2 | FLW0SS03481H00 | 2 | 6.50 |
| 4 | Flange WN ASME B16.5 300LB RF 3,38 FRG ASTM A182 Gr.F316/316L | 1 | FLW0SS03270100 | 1 | 1.83 |
| | | | TOTAL FABRICATION WEIGHT | | 9.07 |

ERECTION MATERIALS

| PT NO | COMPONENT DESCRIPTION | N.S. | ITEM CODE | Q.TY | WEIGHT |
|---|---|---|---|---|---|
| 5 | Gasket Spiral Wound Thk. 3.2 mm ASME B16.20 300LB RF GSK AISI 316 + GRAPHITE c/w INNER RING | 1.1/2 | GSW0GK11221H00 | 2 | 0.22 |
| 6 | Gasket Spiral Wound Thk. 3.2 mm ASME B16.20 300LB RF GSK AISI 316 + GRAPHITE c/w INNER RING | 1 | GSW0GK11210100 | 1 | 0.07 |
| 7 | 95 Stud Bolt + 2 Heavy Nuts ASME B1.1 ASTM A193 Gr.B7 - A194 Gr.2H Hot dip galvanized | 3/4 | SB20BO23540400 | 8 | 3.12 |
| 10 | 100 Stud Bolt + 2 Heavy Nuts ASME B1.1 ASTM A193 Gr.B7 - A194 Gr.2H Hot dip galvanized | 5/8 | SB20BO00680300 | 4 | 1.04 |
| 8 | Double Block & Bleed Valve API 6D FLG 300LB RF DA03C01RFH | 1.1/2 | VLBBNN07201H00 | 1 | 40.00 |
| | INSTRUMENTS | | | | |
| 9 | Pressure Safety Valve FLG.300/150#RF 25-PSV-001A | 2 x 1 | | 1 | 15.00 |
| | | | TOTAL ERECTION WEIGHT | | 59.45 |
| | | | TOTAL WEIGHT | | 68.52 |

| REFERENCE DOCUMENTS | |
|---|---|
| 123A90-DDL-PP-RE-70001 | STRESS ANALYSIS REPORT |
| 123A90-DDL-PR-PID-80015 | P&ID |
| 123A90-DDL-MAT-SP-60003 | INSULATION SPECIFICATION |
| 123A90-DDL-MAT-SP-60006 | COATING & PAINTING SPEC. |
| 123A90-DDL-PP-00-72000 | PIPING SUPPORT BOOK |
| 123A90-DDL-PP-SP-70029 | PIPING MATERIAL CLASS |

SYMBOLS LEGEND:
BUTT WELD · THREADED · HEAT TRACING
SOCKET · PIPE SUPPORT · INSULATED

| NDT EXAMINATION | | | |
|---|---|---|---|
| NDT TYPE | % | NDT TYPE | % |
| RT | 100 | VT | 100 |
| INSPECTION CATEGORY | 1 | MT/PT | 100Ratio |
| TESTING | | | |
| TEST FLUID | | TEST PRESS.(barg) | |
| Water | | 60 | |
| PROCESS LINE DATA | | | |
| DESIGN TEMP. (°C) | | DESIGN PRESS.(barg) | |
| -29 | 80 | | 40 |

| INSULATION & PAINTING | | |
|---|---|---|
| INS. TYPE | INS. THK. | INS. SURF. (m²) |
| N | | |
| PAINT SYS. | BASE RAL | PAINT. SURF. (m²) |
| 6A | RAL 9002 | 0.14 |
| HEAT TRACING | | |
| - | | |
| LINE DATA | | |
| STRESS SYS. | PED CAT. | PWHT |
| 01 | II | No |

| Revision Number | Date | Description | Prepared by | Checked by | Approved by |
|---|---|---|---|---|---|
| 02 | 29/09/25 | AS-BUILT (ASB) | SPS | CBO | CGI |
| 01 | 12/07/24 | ACCEPTED FOR CONSTRUCTION | MMA | CBO | DLO |
| 00 | 07/06/24 | ISSUE FOR REVIEW | MMA | CBO | DLO |

ROSETTI MARINO

# CROSSWIND

DWG TYTLE:

## 1-1/2"-HY-024-03HSS-N

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK

SCALE N.A.

DRAWN SPS | CHECKED CBO | APPROVED CGI | DATE 29/09/25

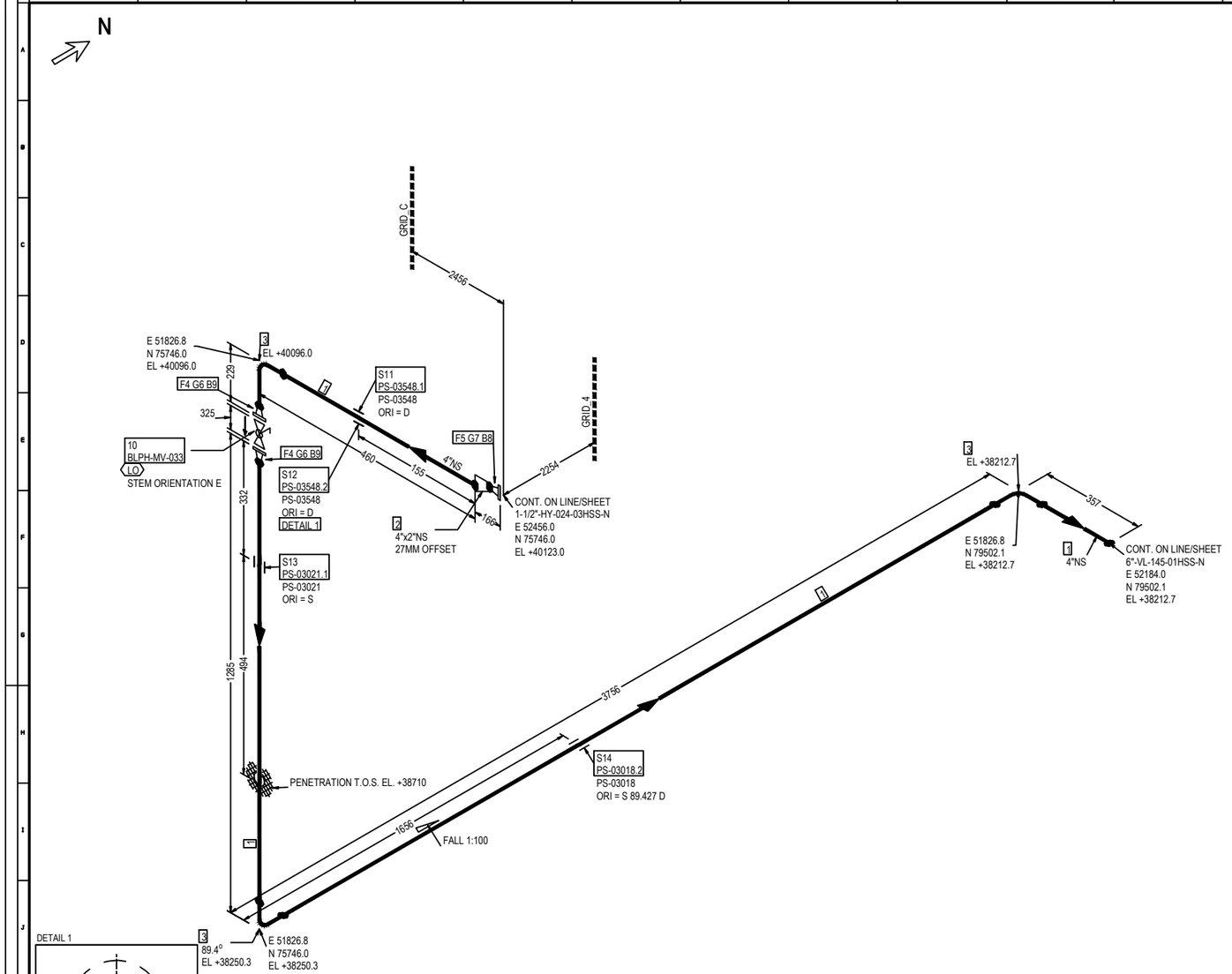
SIZE: A3

DRAWING NO. 123A90-DDL-PP-DI-71000_017

SHEET 1/1

REV. 02

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FABRICATION MATERIALS

| PT NO | COMPONENT DESCRIPTION | N.S. | ITEM CODE | Q.TY | WEIGHT |
|---|---|---|---|---|---|
| 1 | Pipe ASME B36.19M PE 3,05 SML ASTM A312 Gr.TP316/316L | 4 | PIPESS00560400 | 5025MM | 42.71 |
| 2 | Reducer Eccentric ASME B16.9 BW 3,05x2,77 WRS ASTM A403 Gr.WP316/316L | 4 x 2 | REE0SS02470402 | 1 | 0.84 |
| 3 | 90 Deg Elbow Long Radius ASME B16.9 BW 3,05 WRS ASTM A403 Gr.WP316/316L | 4 | E90RSS01020400 | 3 | 6.03 |
| 4 | Flange WN ASME B16.5 150LB RF 3,05 FRG ASTM A182 Gr.F316/316L | 4 | FLW0SS00880400 | 2 | 13.80 |
| 5 | Flange WN ASME B16.5 150LB RF 2,77 FRG ASTM A182 Gr.F316/316L | 2 | FLW0SS00010200 | 1 | 2.74 |
| | | | | TOTAL FABRICATION WEIGHT | 66.12 |

ERECTION MATERIALS

| PT NO | COMPONENT DESCRIPTION | N.S. | ITEM CODE | Q.TY | WEIGHT |
|---|---|---|---|---|---|
| 6 | Gasket Spiral Wound Thk. 3.2 mm ASME B16.20 150LB RF GSK AISI 316 + GRAPHITE c/w INNER RING | 4 | GSW0GK11150400 | 2 | 0.48 |
| 7 | Gasket Spiral Wound Thk. 3.2 mm ASME B16.20 150LB RF GSK AISI 316 + GRAPHITE c/w INNER RING | 2 | GSW0GK11130200 | 1 | 0.10 |
| 8 | 85 Stud Bolt + 2 Heavy Nuts ASME B1.1 ASTM A193 Gr.B7 - A194 Gr.2H Hot dip galvanized | 5/8 | SB20BO00660300 | 4 | 0.96 |
| 9 | 90 Stud Bolt + 2 Heavy Nuts ASME B1.1 ASTM A193 Gr.B7 - A194 Gr.2H Hot dip galvanized | 5/8 | SB20BO04190300 | 16 | 4.00 |
| 10 | Block & Bleed Valve API 6D FLG 150LB RF BA01C01RFHS | 4 | VLBLNN01450400 | 1 | 80.00 |
| | SUPPORTS | | | | |
| 11 | /PS-03548.1 | 4 | | 1 | 0.39 |
| 12 | /PS-03548.2 | 4 | | 1 | 0.74 |
| 13 | /PS-03021.1 | 4 | | 1 | 0.67 |
| 14 | /PS-03018.2 | 4 | | 1 | 0.67 |
| | | | | TOTAL ERECTION WEIGHT | 88.01 |
| | | | | TOTAL WEIGHT | 154.13 |

| REFERENCE DOCUMENTS | |
|---|---|
| 123A90-DDL-PP-RE-70001 | STRESS ANALYSIS REPORT |
| 123A90-DDL-PR-PID-80015 | P&ID |
| 123A90-DDL-MAT-SP-60003 | INSULATION SPECIFICATION |
| 123A90-DDL-MAT-SP-60006 | COATING & PAINTING SPEC. |
| 123A90-DDL-PP-00-72000 | PIPING SUPPORT BOOK |
| 123A90-DDL-PP-SP-70029 | PIPING MATERIAL CLASS |

SYMBOLS LEGEND:
BUTT WELD · THREADED · HEAT TRACING · SOCKET · PIPE SUPPORT · INSULATED

| NDT EXAMINATION | | | |
|---|---|---|---|
| NDT TYPE | % | NDT TYPE | % |
| RT | 100 | VT | 100 |
| INSPECTION CATEGORY | 1 | MT/PT | 100 |
| TESTING | | | |
| TEST FLUID | | TEST PRESS.(barg) | |
| Water | | 5.25 | |
| PROCESS LINE DATA | | | |
| DESIGN TEMP. (°C) | | DESIGN PRESS.(barg) | |
| -29 | 100 | | 3.5 |

| INSULATION & PAINTING | | |
|---|---|---|
| INS. TYPE | INS. THK. | INS. SURF. (m²) |
| N | | |
| PAINT SYS. | BASE RAL | PAINT. SURF. (m²) |
| 6A | RAL 9002 | 2.30 |
| HEAT TRACING | | |
| - | | |
| LINE DATA | | |
| STRESS SYS. | PED CAT. | PWHT |
| 01 | II | No |

| Revision Number | Date | Description | Prepared by | Checked by | Approved by |
|---|---|---|---|---|---|
| 02 | 29/09/25 | AS-BUILT (ASB) | SPS | CBO | CGI |
| 01 | 26/07/24 | ACCEPTED FOR CONSTRUCTION | MMA | CBO | DLO |
| 00 | 07/06/24 | ISSUE FOR REVIEW | MMA | CBO | DLO |

ROSETTI MARINO

# CROSSWIND

DWG TYTLE:

## 4"-VL-025-01HSS-N

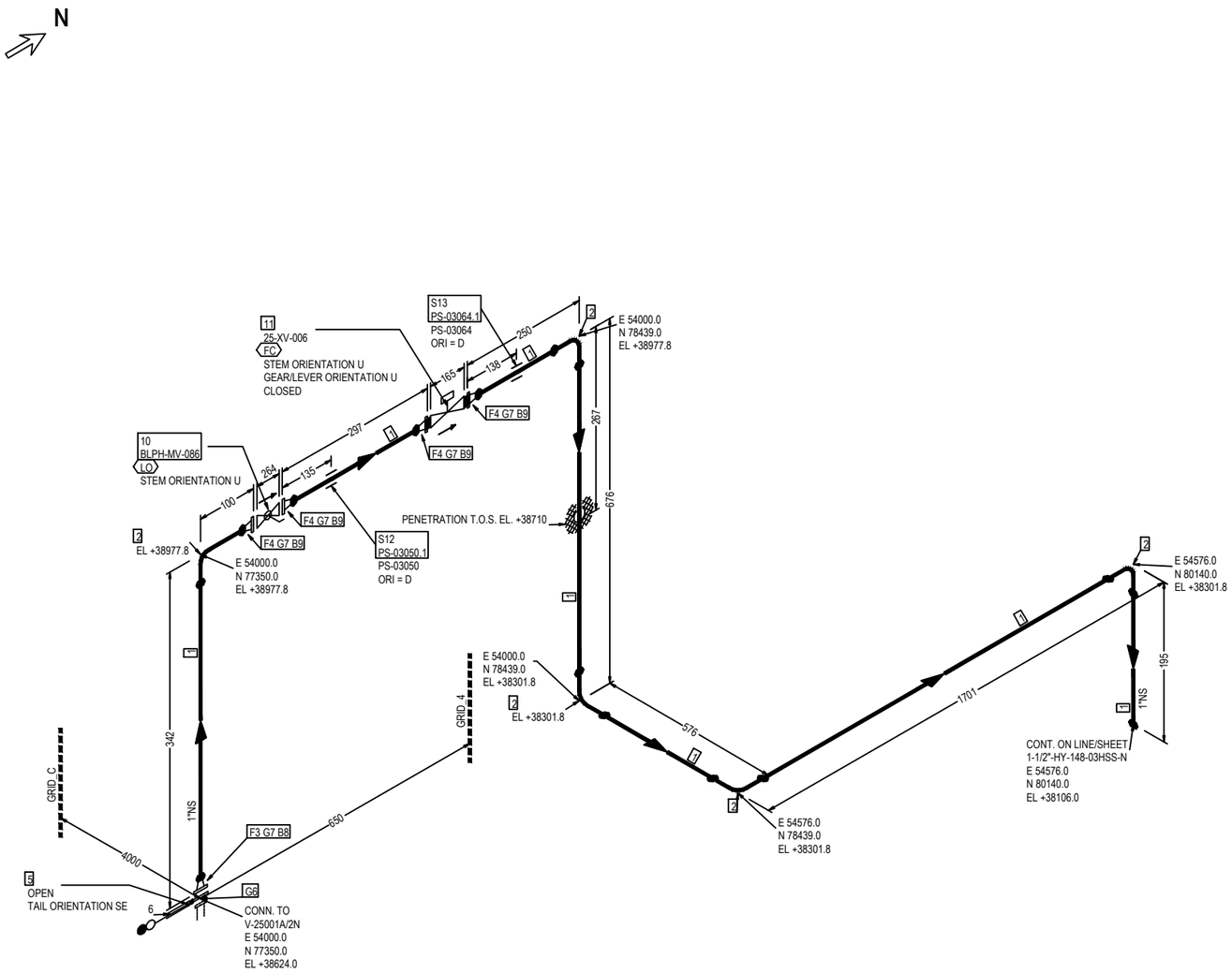
CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK

SCALE N.A.

DRAWN SPS | CHECKED CBO | APPROVED CGI | DATE 29/09/25

SIZE: A3 | DRAWING NO. 123A90-DDL-PP-DI-71000_018 | SHEET 1/1 | REV. 02

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FABRICATION MATERIALS

| PT NO | COMPONENT DESCRIPTION | N.S. | ITEM CODE | Q.TY | WEIGHT |
|---|---|---|---|---|---|
| 1 | Pipe ASME B36.19M PE 3,38 SML ASTM A312 Gr.TP316/316L | 1 | PIPESS00480100 | 3446MM | 8.62 |
| 2 | 90 Deg Elbow Long Radius ASME B16.9 BW 3,38 WRS ASTM A403 Gr.WP316/316L | 1 | E90RSS00670100 | 5 | 0.70 |
| 3 | Flange WN For Jackscrews ASME B16.5 300LB RF 3,38 FRG ASTM A182 Gr.F316/316L | 1 | FLWDSS00770100 | 1 | 1.83 |
| 4 | Flange WN ASME B16.5 300LB RF 3,38 FRG ASTM A182 Gr.F316/316L | 1 | FLW0SS03270100 | 4 | 7.32 |
| | | | TOTAL FABRICATION WEIGHT | | 18.47 |

ERECTION MATERIALS

| PT NO | COMPONENT DESCRIPTION | N.S. | ITEM CODE | Q.TY | WEIGHT |
|---|---|---|---|---|---|
| 5 | Spectacle Blinds ASME B16.48 THRU BOLTED 300LB RF FPL ASTM A240 Gr.TP316/316L | 1 | BSPESS01580100 | 1 | 0.51 |
| 6 | Insulation Kit Ends as per ASME B16.5 300LB RF | 1 | SPIKNN01420100 | 1 | 0.07 |
| 7 | Gasket Spiral Wound Thk. 3.2 mm ASME B16.20 300LB RF GSK AISI 316 + GRAPHITE c/w INNER RING | 1 | GSW0GK11210100 | 5 | 0.35 |
| 8 | 105 Stud Bolt + 2 Heavy Nuts ASME B1.1 ASTM A193 Gr.B7 - A194 Gr.2H Hot dip galvanized | 5/8 | SB20BO04200300 | 4 | 1.08 |
| 9 | 80 Stud Bolt + 2 Heavy Nuts ASME B1.1 ASTM A193 Gr.B7 - A194 Gr.2H Hot dip galvanized | 5/8 | SB20BO01870300 | 16 | 3.68 |
| 10 | Double Block & Bleed Valve API 6D FLG 300LB RF DA03C01RFH | 1 | VLBBNN07190100 | 1 | 13.50 |
| | INSTRUMENTS | | | | |
| 11 | ON/OFF Ball Actuator Valve - 300#RF Flanged 25-XV-006 | 1 | | 1 | 41.00 |
| | SUPPORTS | | | | |
| 12 | /PS-03050.1 | 1 | | 1 | 0.19 |
| 13 | /PS-03064.1 | 1 | | 1 | 0.19 |
| | | | TOTAL ERECTION WEIGHT | | 60.57 |
| | | | TOTAL WEIGHT | | 79.04 |

| REFERENCE DOCUMENTS | | NDT EXAMINATION | | | | INSULATION & PAINTING | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 123A90-DDL-PP-RE-70001 | STRESS ANALYSIS REPORT | NDT TYPE | % | NDT TYPE | % | INS. TYPE | INS. THK. | INS. SURF. (m²) | | | | | | |
| 123A90-DDL-PR-PID-80015 | P&ID | RT | 100 | VT | 100 | N | | | | | | | | |
| 123A90-DDL-MAT-SP-60003 | INSULATION SPECIFICATION | INSPECTION CATEGORY | 1 | MT/PT | 100Ratio | PAINT SYS. | BASE RAL | PAINT. SURF. (m²) | | | | | | |
| 123A90-DDL-MAT-SP-60006 | COATING & PAINTING SPEC. | TESTING | | | | 6A | RAL 9002 | 0.47 | | | | | | |
| 123A90-DDL-PP-00-72000 | PIPING SUPPORT BOOK | TEST FLUID | | TEST PRESS.(barg) | | HEAT TRACING | | | | | | | | |
| 123A90-DDL-PP-SP-70029 | PIPING MATERIAL CLASS | Water | | 60 | | - | | | 02 | 29/09/25 | AS-BUILT (ASB) | SPS | CBO | CGI |
| SYMBOLS LEGEND: | | PROCESS LINE DATA | | | | LINE DATA | | | 01 | 12/07/24 | ACCEPTED FOR CONSTRUCTION | MMA | CBO | DLO |
| BUTT WELD THREADED HEAT TRACING | | DESIGN TEMP. (°C) | | DESIGN PRESS.(barg) | | STRESS SYS. | PED CAT. | PWHT | 00 | 07/06/24 | ISSUE FOR REVIEW | MMA | CBO | DLO |
| SOCKET PIPE SUPPORT INSULATED | | -29 | 80 | | 40 | - | II | No | Revision Number | Date | Description | Prepared by | Checked by | Approved by |

ROSETTI MARINO

CROSSWIND

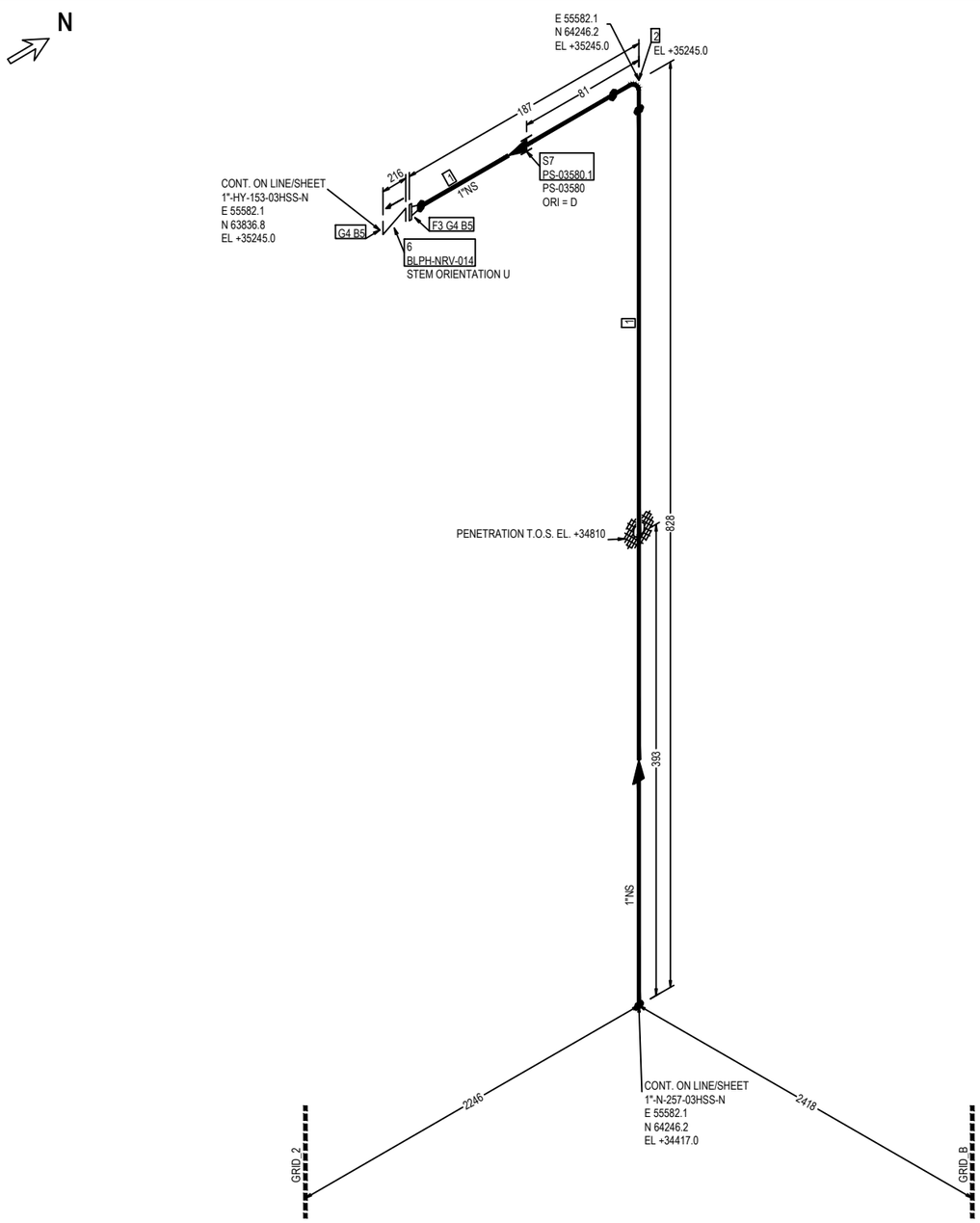
DWG TYTLE:

# 1"-HY-026-03HSS-N

| CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK | | | SCALE N.A. |
|---|---|---|---|
| DRAWN SPS | CHECKED CBO | APPROVED CGI | DATE 29/09/25 |

| SIZE: | DRAWING NO. | SHEET | REV. |
|---|---|---|---|
| A3 | 123A90-DDL-PP-DI-71000_019 | 1/1 | 02 |

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FABRICATION MATERIALS

| PT NO | COMPONENT DESCRIPTION | N.S. | ITEM CODE | Q.TY | WEIGHT |
|---|---|---|---|---|---|
| 1 | Pipe ASME B36.19M PE 3,38 SML ASTM A312 Gr.TP316/316L | 1 | PIPESS00480100 | 877MM | 2.19 |
| 2 | 90 Deg Elbow Long Radius ASME B16.9 BW 3,38 WRS ASTM A403 Gr.WP316/316L | 1 | E90RSS00670100 | 1 | 0.14 |
| 3 | Flange WN ASME B16.5 300LB RF 3,38 FRG ASTM A182 Gr.F316/316L | 1 | FLW0SS03270100 | 1 | 1.83 |
| | | | TOTAL FABRICATION WEIGHT | | 4.16 |

ERECTION MATERIALS

| PT NO | COMPONENT DESCRIPTION | N.S. | ITEM CODE | Q.TY | WEIGHT |
|---|---|---|---|---|---|
| 4 | Gasket Spiral Wound Thk. 3.2 mm ASME B16.20 300LB RF GSK AISI 316 + GRAPHITE c/w INNER RING | 1 | GSW0GK11210100 | 2 | 0.14 |
| 5 | 80 Stud Bolt + 2 Heavy Nuts ASME B1.1 ASTM A193 Gr.B7 - A194 Gr.2H Hot dip galvanized | 5/8 | SB20BO01870300 | 8 | 1.84 |
| 6 | Check Valve Piston EN ISO 15761 FLG 300LB RF CH03C02RFH | 1 | VDRNNN02620100 | 1 | 0.00 |
| | SUPPORTS | | | | |
| 7 | /PS-03580.1 | 1 | | 1 | 0.19 |
| | | | TOTAL ERECTION WEIGHT | | 2.17 |
| | | | TOTAL WEIGHT | | 6.33 |

| REFERENCE DOCUMENTS | |
|---|---|
| 123A90-DDL-PP-RE-70001 | STRESS ANALYSIS REPORT |
| 123A90-DDL-PR-PID-80027 | P&ID |
| 123A90-DDL-MAT-SP-60003 | INSULATION SPECIFICATION |
| 123A90-DDL-MAT-SP-60006 | COATING & PAINTING SPEC. |
| 123A90-DDL-PP-00-72000 | PIPING SUPPORT BOOK |
| 123A90-DDL-PP-SP-70029 | PIPING MATERIAL CLASS |

SYMBOLS LEGEND:
BUTT WELD · THREADED · HEAT TRACING · SOCKET · PIPE SUPPORT · INSULATED

| NDT EXAMINATION | | | |
|---|---|---|---|
| NDT TYPE | % | NDT TYPE | % |
| RT | 10 | VT | 100 |
| INSPECTION CATEGORY | 2 | MT/PT | 10 |
| TESTING | | | |
| TEST FLUID | | TEST PRESS. (barg) | |
| Water | | 60.00 | |
| PROCESS LINE DATA | | | |
| DESIGN TEMP. (°C) | | DESIGN PRESS. (barg) | |
| -46 | 80 | | 40 |

| INSULATION & PAINTING | | |
|---|---|---|
| INS. TYPE | INS. THK. | INS. SURF. (m²) |
| N | | |
| PAINT SYS. | BASE RAL | PAINT. SURF. (m²) |
| 6A | RAL 9002 | 0.13 |
| HEAT TRACING | | |
| - | | |
| LINE DATA | | |
| STRESS SYS. | PED CAT. | PWHT |
| - | Art. 4, par. 3 | No |

| Revision Number | Date | Description | Prepared by | Checked by | Approved by |
|---|---|---|---|---|---|
| 02 | 29/09/25 | AS-BUILT (ASB) | SPS | CBO | CGI |
| 01 | 26/07/24 | ACCEPTED FOR CONSTRUCTION | MMA | CBO | DLO |
| 00 | 07/06/24 | ISSUE FOR REVIEW | MMA | CBO | DLO |

ROSETTI MARINO

# CROSSWIND

DWG TYTLE:

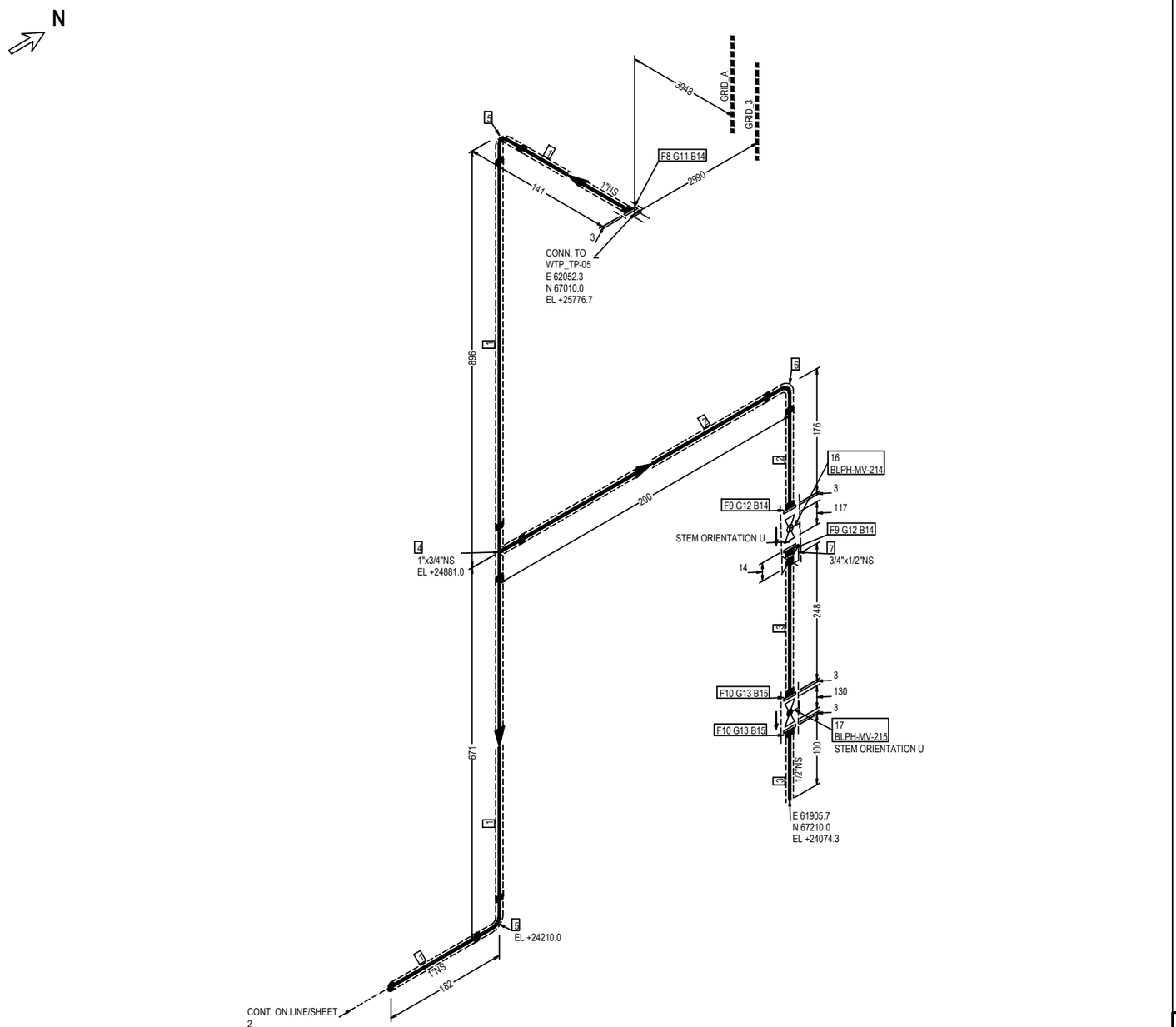
## 1"-N-028-03HSS-N

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK | SCALE N.A.

DRAWN SPS | CHECKED CBO | APPROVED CGI | DATE 29/09/25

SIZE: A3 | DRAWING NO. 123A90-DDL-PP-DI-71000_020 | SHEET 1/1 | REV. 02

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ERECTION MATERIALS

| PT NO | COMPONENT DESCRIPTION | N.S. | ITEM CODE | Q.TY | WEIGHT |
|---|---|---|---|---|---|
| 1 | Pipe - Plastic ASTM F441 PE 4,55 PLT CPVC | 1 | PIPPPV00160100 | 1786MM | 0.71 |
| 2 | Pipe - Plastic ASTM F441 PE 3,91 PLT CPVC | 3/4 | PIPPPV00303Q00 | 328MM | 0.10 |
| 3 | Pipe - Plastic ASTM F441 PE 3,73 PLT CPVC | 1/2 | PIPPPV00290H00 | 348MM | 0.07 |
| 4 | Tee Reducing - Plastic ASTM F439 SOCKET 10 Bar PLT CPVC | 1 x 3/4 | TRP0PV0025013Q | 1 | 0.10 |
| 5 | 90 Deg Elbow - Plastic ASTM F439 SOCKET 10 Bar PLT CPVC | 1 | E90PPV00360100 | 2 | 0.18 |
| 6 | 90 Deg Elbow - Plastic ASTM F439 SOCKET 10 Bar PLT CPVC | 3/4 | E90PPV00353Q00 | 1 | 0.06 |
| 7 | Bushing - Plastic ASTM F439 PE x THRD-F NPT 10 Bar PLT CPVC | 3/4 x 1/2 | BUSPPV00073Q0H | 1 | 0.01 |
| 8 | Flange - Plastic Flanged as per ASME B16.5 SOCKET 150LB FF PLT CPVC | 1 | FLAPPV00010100 | 1 | 0.21 |
| 9 | Flange - Plastic Flanged as per ASME B16.5 SOCKET 150LB FF PLT CPVC | 3/4 | FLAPPV00113Q00 | 2 | 0.26 |
| 10 | Flange - Plastic Flanged as per ASME B16.5 SOCKET 150LB FF PLT CPVC | 1/2 | FLAPPV00090H00 | 2 | 0.20 |
| 11 | Gasket Flat Thk. 3 mm ASME B16.21 150LB FF GSK NITRILE RUBBER | 1 | GFL3GK13690100 | 1 | 0.05 |
| 12 | Gasket Flat Thk. 3 mm ASME B16.21 150LB FF GSK NITRILE RUBBER | 3/4 | GFL3GK13683Q00 | 2 | 0.10 |
| 13 | Gasket Flat Thk. 3 mm ASME B16.21 150LB FF GSK NITRILE RUBBER | 1/2 | GFL3GK13670H00 | 2 | 0.10 |
| 14 | 65 Stud Bolt + 2 Heavy Nuts & Washers ASME B1.1 ASTM A193 Gr.B7 - A194 Gr.2H Hot dip galvanized | 1/2 | SB2WBO00010200 | 12 | 1.44 |
| 15 | 60 Stud Bolt + 2 Heavy Nuts & Washers ASME B1.1 ASTM A193 Gr.B7 - A194 Gr.2H Hot dip galvanized | 1/2 | SB2WBO01960200 | 8 | 0.88 |
| 16 | Ball Valve Split Body FB Manuf.s STD FLG 150LB FF BA01P01KT | 3/4 | VBC0NN24893Q00 | 1 | 7.00 |
| 17 | Globe Valve Manuf.s STD FLG 150LB FF HS01P01KT | 1/2 | VDA0NN16150H00 | 1 | 3.80 |
| | | | TOTAL ERECTION WEIGHT | | 15.27 |
| | | | TOTAL WEIGHT | | 15.27 |

| REFERENCE DOCUMENTS | |
|---|---|
| 123A90-DDL-PP-RE-70001 | STRESS ANALYSIS REPORT |
| 123A90-DDL-PR-PID-80022 | P&ID |
| 123A90-DDL-MAT-SP-60003 | INSULATION SPECIFICATION |
| 123A90-DDL-MAT-SP-60006 | COATING & PAINTING SPEC. |
| 123A90-DDL-PP-00-72000 | PIPING SUPPORT BOOK |
| 123A90-DDL-PP-SP-70029 | PIPING MATERIAL CLASS |

SYMBOLS LEGEND:
BUTT WELD — THREADED — HEAT TRACING
SOCKET — PIPE SUPPORT — INSULATED

| NDT EXAMINATION | | | |
|---|---|---|---|
| NDT TYPE | % | NDT TYPE | % |
| RT | unset | N.A. | unset |
| INSPECTION CATEGORY | N/A | MT/PT | unset |
| TESTING | | | |
| TEST FLUID | | TEST PRESS.(barg) | |
| Water | | 6.75 | |
| PROCESS LINE DATA | | | |
| DESIGN TEMP. (°C) | | DESIGN PRESS.(barg) | |
| 5 | 50 | | 4.5 |

| INSULATION & PAINTING | | |
|---|---|---|
| INS. TYPE | INS. THK. | INS. SURF. (m²) |
| H | 20mm | 3.02 |
| PAINT SYS. | BASE RAL | PAINT. SURF. (m²) |
| N/A | N/A | |
| HEAT TRACING | | |
| YES | | |
| LINE DATA | | |
| STRESS SYS. | PED CAT. | PWHT |
| - | Art. 4, par. 3 | No |

| Revision Number | Date | Description | Prepared by | Checked by | Approved by |
|---|---|---|---|---|---|
| 02 | 29/09/25 | AS-BUILT (ASB) | SPS | CBO | CGI |
| 01 | 26/07/24 | ACCEPTED FOR CONSTRUCTION | MMA | CBO | DLO |
| 00 | 07/06/24 | ISSUE FOR REVIEW | MMA | CBO | DLO |

ROSETTI MARINO

# CROSSWIND

DWG TYTLE:

## 1"-CI-029-01CP-E

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK

SCALE N.A.

DRAWN SPS | CHECKED CBO | APPROVED CGI | DATE 29/09/25

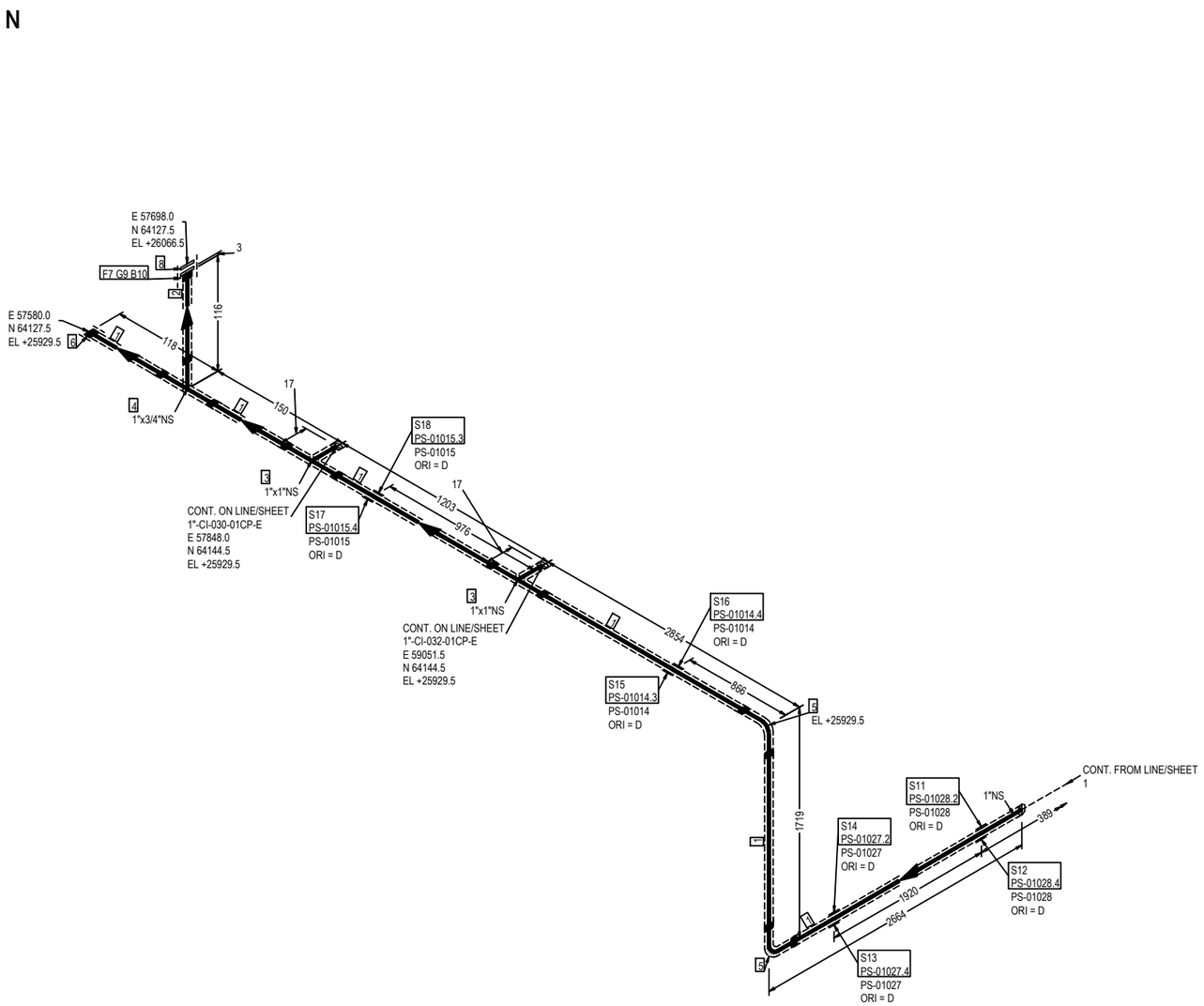
SIZE: A3

DRAWING NO. 123A90-DDL-PP-DI-71000_021

SHEET 1/2

REV. 02

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ERECTION MATERIALS

| PT NO | COMPONENT DESCRIPTION | N.S. | ITEM CODE | Q.TY | WEIGHT |
|---|---|---|---|---|---|
| 1 | Pipe - Plastic ASTM F441 PE 4,55 PLT CPVC | 1 | PIPPPV00160100 | 8536MM | 3.41 |
| 2 | Pipe - Plastic ASTM F441 PE 3,91 PLT CPVC | 3/4 | PIPPPV00303Q00 | 96MM | 0.03 |
| 3 | Tee - Plastic ASTM F439 SOCKET 10 Bar PLT CPVC | 1 x 1 | TEEPPV00330100 | 2 | 0.26 |
| 4 | Tee Reducing - Plastic ASTM F439 SOCKET 10 Bar PLT CPVC | 1 x 3/4 | TRP0PV0025013Q | 1 | 0.10 |
| 5 | 90 Deg Elbow - Plastic ASTM F439 SOCKET 10 Bar PLT CPVC | 1 | E90PPV00360100 | 2 | 0.18 |
| 6 | Cap - Plastic ASTM F439 SOCKET 10 Bar PLT CPVC | 1 | CAPPPV00250100 | 1 | 0.04 |
| 7 | Flange - Plastic Flanged as per ASME B16.5 SOCKET 150LB FF PLT CPVC | 3/4 | FLAPPV00113Q00 | 1 | 0.13 |
| 8 | Flange Blind - Plastic Flanged as per ASME B16.5 150LB FF PLT CPVC | 3/4 | FLBPPV00083Q00 | 1 | 0.13 |
| 9 | Gasket Flat Thk. 3 mm ASME B16.21 150LB FF GSK NITRILE RUBBER | 3/4 | GFL3GK13683Q00 | 1 | 0.05 |
| 10 | 65 Stud Bolt + 2 Heavy Nuts & Washers ASME B1.1 ASTM A193 Gr.B7 - A194 Gr.2H Hot dip galvanized | 1/2 | SB2WBO00010200 | 4 | 0.48 |
| | SUPPORTS | | | | |
| 11 | /PS-01028.2 | 1 | | 1 | 2.31 |
| 12 | /PS-01028.4 | 1 | | 1 | 0.69 |
| 13 | /PS-01027.4 | 1 | | 1 | 0.69 |
| 14 | /PS-01027.2 | 1 | | 1 | 2.31 |
| 15 | /PS-01014.3 | 1 | | 1 | 2.31 |
| 16 | /PS-01014.4 | 1 | | 1 | 0.69 |
| 17 | /PS-01015.4 | 1 | | 1 | 0.69 |
| 18 | /PS-01015.3 | 1 | | 1 | 2.31 |
| | | | TOTAL ERECTION WEIGHT | | 16.81 |
| | | | TOTAL WEIGHT | | 16.81 |

| REFERENCE DOCUMENTS | |
|---|---|
| 123A90-DDL-PP-RE-70001 | STRESS ANALYSIS REPORT |
| 123A90-DDL-PR-PID-80022 | P&ID |
| 123A90-DDL-MAT-SP-60003 | INSULATION SPECIFICATION |
| 123A90-DDL-MAT-SP-60006 | COATING & PAINTING SPEC. |
| 123A90-DDL-PP-00-72000 | PIPING SUPPORT BOOK |
| 123A90-DDL-PP-SP-70029 | PIPING MATERIAL CLASS |

SYMBOLS LEGEND:
BUTT WELD · THREADED · HEAT TRACING · SOCKET · PIPE SUPPORT · INSULATED

| NDT EXAMINATION | | | |
|---|---|---|---|
| NDT TYPE | % | NDT TYPE | % |
| RT | unset | N.A. | unset |
| INSPECTION CATEGORY | N/A | MT/PT | unset |
| TESTING | | | |
| TEST FLUID | | TEST PRESS. [barg] | |
| Water | | 6.75 | |
| PROCESS LINE DATA | | | |
| DESIGN TEMP. [°C] | | DESIGN PRESS. [barg] | |
| 5 | 50 | | 4.5 |

| INSULATION & PAINTING | | |
|---|---|---|
| INS. TYPE | INS. THK. | INS. SURF. [m²] |
| H | 20mm | 3.01 |
| PAINT SYS. | BASE RAL | PAINT. SURF. [m²] |
| N/A | N/A | SEE Sh1 |
| HEAT TRACING | | |
| YES | | |
| LINE DATA | | |
| STRESS SYS. | PED CAT. | PWHT |
| - | Art. 4, par. 3 | No |

| Revision Number | Date | Description | Prepared by | Checked by | Approved by |
|---|---|---|---|---|---|
| 02 | 29/09/25 | AS-BUILT (ASB) | SPS | CBO | CGI |
| 01 | 26/07/24 | ACCEPTED FOR CONSTRUCTION | MMA | CBO | DLO |
| 00 | 07/06/24 | ISSUE FOR REVIEW | MMA | CBO | DLO |

ROSETTI MARINO

# CROSSWIND

DWG TYTLE:

# 1"-CI-029-01CP-E

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK

SCALE N.A.

DRAWN SPS | CHECKED CBO | APPROVED CGI | DATE 29/09/25

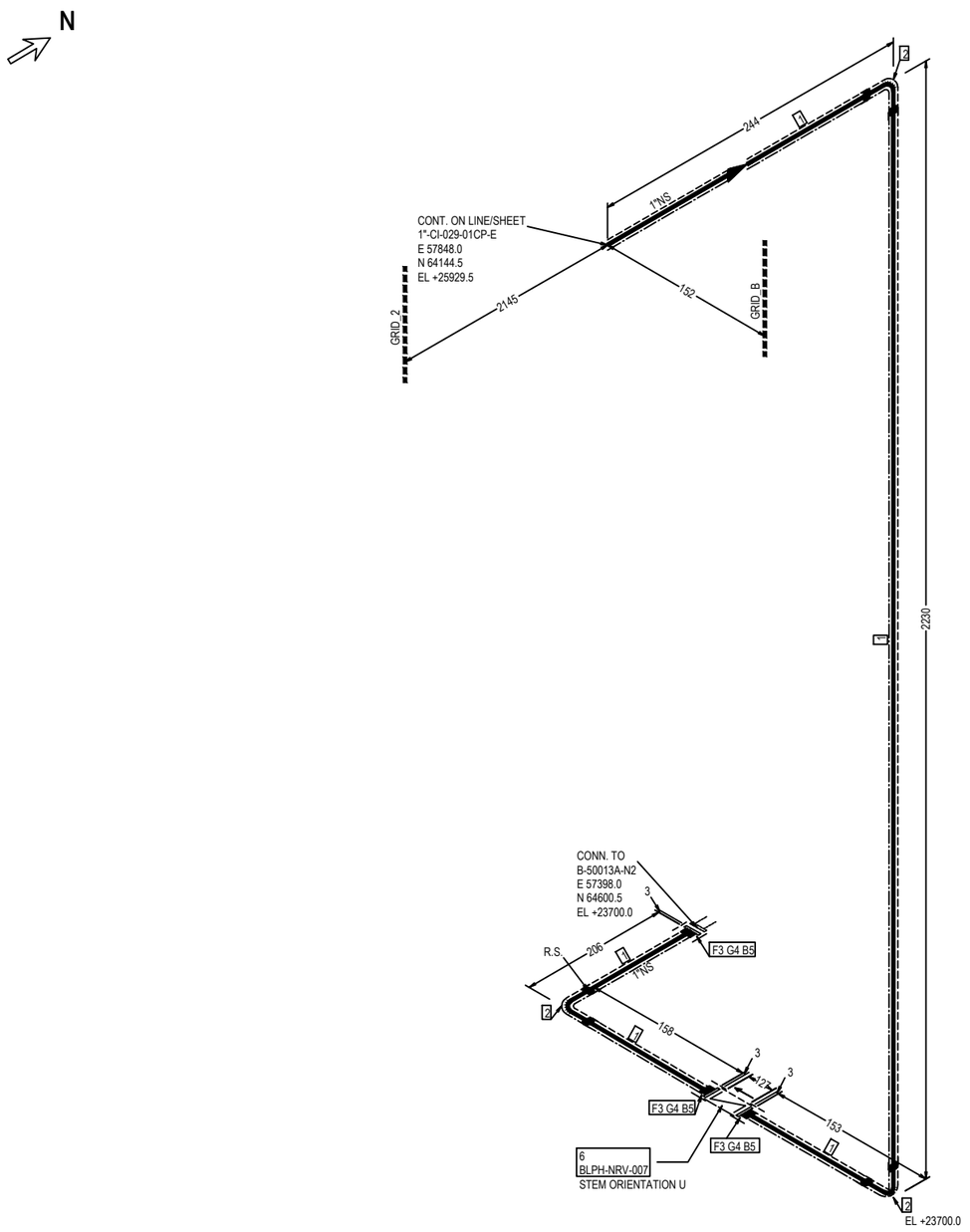
SIZE: A3

DRAWING NO. 123A90-DDL-PP-DI-71000_021

SHEET 2/2

REV. 02

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ERECTION MATERIALS

| PT NO | COMPONENT DESCRIPTION | N.S. | ITEM CODE | Q.TY | WEIGHT |
|---|---|---|---|---|---|
| 1 | Pipe - Plastic ASTM F441 PE 4,55 PLT CPVC | 1 | PIPPPV00160100 | 2949MM | 1.18 |
| 2 | 90 Deg Elbow - Plastic ASTM F439 SOCKET 10 Bar PLT CPVC | 1 | E90PPV00360100 | 3 | 0.27 |
| 3 | Flange - Plastic Flanged as per ASME B16.5 SOCKET 150LB FF PLT CPVC | 1 | FLAPPV00010100 | 3 | 0.63 |
| 4 | Gasket Flat Thk. 3 mm ASME B16.21 150LB FF GSK NITRILE RUBBER | 1 | GFL3GK13690100 | 3 | 0.15 |
| 5 | 65 Stud Bolt + 2 Heavy Nuts & Washers ASME B1.1 ASTM A193 Gr.B7 - A194 Gr.2H Hot dip galvanized | 1/2 | SB2WBO00010200 | 12 | 1.44 |
| 6 | Check Valve Piston Manuf.s STD FLG 150LB FF CH01P01KT | 1 | VDRNNN02640100 | 1 | 0.00 |
| | | | TOTAL ERECTION WEIGHT | | 4.15 |
| | | | TOTAL WEIGHT | | 4.15 |

| REFERENCE DOCUMENTS | |
|---|---|
| 123A90-DDL-PP-RE-70001 | STRESS ANALYSIS REPORT |
| 123A90-DDL-PR-PID-80021 | P&ID |
| 123A90-DDL-MAT-SP-60003 | INSULATION SPECIFICATION |
| 123A90-DDL-MAT-SP-60006 | COATING & PAINTING SPEC. |
| 123A90-DDL-PP-00-72000 | PIPING SUPPORT BOOK |
| 123A90-DDL-PP-SP-70029 | PIPING MATERIAL CLASS |

SYMBOLS LEGEND:
BUTT WELD — THREADED — HEAT TRACING
SOCKET — PIPE SUPPORT — INSULATED

| NDT EXAMINATION | | | |
|---|---|---|---|
| NDT TYPE | % | NDT TYPE | % |
| RT | unset | N.A. | unset |
| INSPECTION CATEGORY | N/A | MT/PT | unset |
| TESTING | | | |
| TEST FLUID | | TEST PRESS. [barg] | |
| Water | | 6.75 | |
| PROCESS LINE DATA | | | |
| DESIGN TEMP. [°C] | | DESIGN PRESS. [barg] | |
| 5 | 50 | | 4.5 |

| INSULATION & PAINTING | | |
|---|---|---|
| INS. TYPE | INS. THK. | INS. SURF. [m²] |
| H | 20mm | 0.81 |
| PAINT SYS. | BASE RAL | PAINT. SURF. [m²] |
| N/A | N/A | |
| HEAT TRACING | | |
| YES | | |
| LINE DATA | | |
| STRESS SYS. | PED CAT. | PWHT |
| - | Art. 4, par. 3 | No |

| Revision Number | Date | Description | Prepared by | Checked by | Approved by |
|---|---|---|---|---|---|
| 02 | 29/09/25 | AS-BUILT (ASB) | SPS | CBO | CGI |
| 01 | 26/07/24 | ACCEPTED FOR CONSTRUCTION | MMA | CBO | DLO |
| 00 | 07/06/24 | ISSUE FOR REVIEW | MMA | CBO | DLO |

ROSETTI MARINO

# CROSSWIND

DWG TYTLE:

## 1"-CI-030-01CP-E

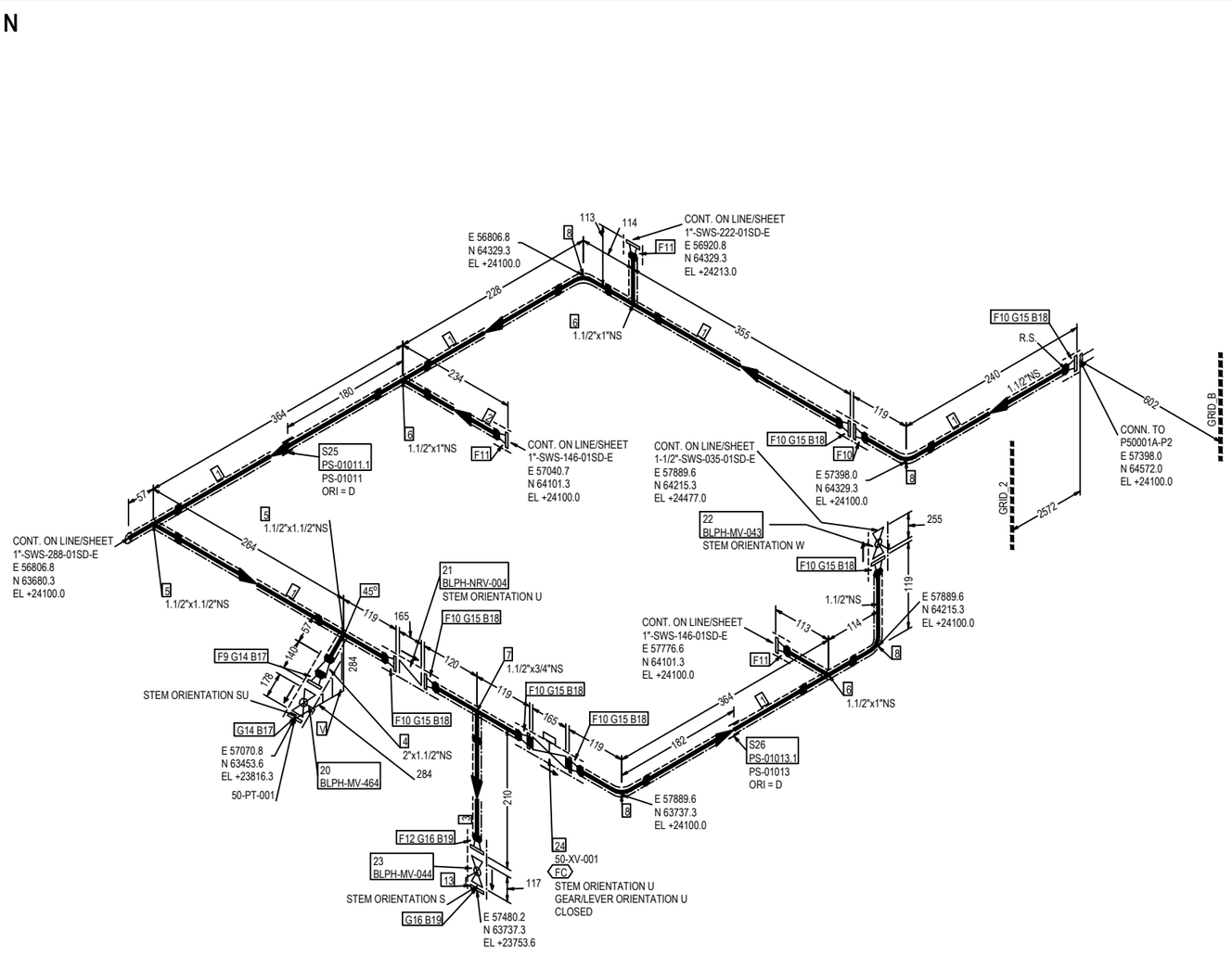
CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK

SCALE N.A.

DRAWN SPS | CHECKED CBO | APPROVED CGI | DATE 29/09/25

SIZE: A3 | DRAWING NO. 123A90-DDL-PP-DI-71000_022 | SHEET 1/1 | REV. 02

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FABRICATION MATERIALS

| PT NO | COMPONENT DESCRIPTION | N.S. | ITEM CODE | Q.TY | WEIGHT |
|---|---|---|---|---|---|
| 1 | Pipe ASME B36.19M PE 3,68 SML ASTM A790 UNS S32760 | 1.1/2 | PIPESD04761H00 | 1121MM | 4.60 |
| 2 | Pipe ASME B36.19M PE 3,38 SML ASTM A790 UNS S32760 | 1 | PIPESD02850100 | 121MM | 0.31 |
| 3 | Pipe ASME B36.19M PE 2,87 SML ASTM A790 UNS S32760 | 3/4 | PIPESD04753Q00 | 100MM | 0.17 |
| 4 | Reducer Concentric ASME B16.9 BW 2,77x3,68 WRS ASTM A815 UNS S32760 | 2 x 1.1/2 | REC0SD0803021H | 1 | 0.31 |
| 5 | Tee ASME B16.9 BW 3,68 WRS ASTM A815 UNS S32760 | 1.1/2 x 1.1/2 | TEE0SD02931H00 | 2 | 1.66 |
| 6 | Tee Reducing ASME B16.9 BW 3,68x3,38 WRS ASTM A815 UNS S32760 | 1.1/2 x 1 | TER0SD09381H01 | 3 | 2.25 |
| 7 | Tee Reducing ASME B16.9 BW 3,68x2,87 WRS ASTM A815 UNS S32760 | 1.1/2 x 3/4 | TER0SD09371H3Q | 1 | 0.75 |
| 8 | 90 Deg Elbow Long Radius ASME B16.9 BW 3,68 WRS ASTM A815 UNS S32760 | 1.1/2 | E90RSD03031H00 | 4 | 1.52 |
| 9 | Flange WN ASME B16.5 150LB RF 2,77 FRG ASTM A182 Gr.F55 | 2 | FLW0SD01250200 | 1 | 2.75 |
| 10 | Flange WN ASME B16.5 150LB RF 3,68 FRG ASTM A182 Gr.F55 | 1.1/2 | FLW0SD02861H00 | 8 | 14.72 |
| 11 | Flange WN ASME B16.5 150LB RF 3,38 FRG ASTM A182 Gr.F55 | 1 | FLW0SD01240100 | 3 | 4.29 |
| 12 | Flange WN ASME B16.5 150LB RF 2,87 FRG ASTM A182 Gr.F55 | 3/4 | FLW0SD02853Q00 | 1 | 0.92 |
| | | | TOTAL FABRICATION WEIGHT | | 34.25 |

ERECTION MATERIALS

| PT NO | COMPONENT DESCRIPTION | N.S. | ITEM CODE | Q.TY | WEIGHT |
|---|---|---|---|---|---|
| 13 | Flange Blind ASME B16.5 150LB RF FRG ASTM A182 Gr.F55 | 3/4 | FLB0SD01843Q00 | 1 | 0.92 |
| 14 | Gasket Flat Thk. 3 mm ASME B16.21 150LB RF GSK NEOPRENE | 2 | GFL3GK13230200 | 2 | 0.02 |
| 15 | Gasket Flat Thk. 3 mm ASME B16.21 150LB RF GSK NEOPRENE | 1.1/2 | GFL3GK15981H00 | 7 | 0.07 |
| 16 | Gasket Flat Thk. 3 mm ASME B16.21 150LB RF GSK NEOPRENE | 3/4 | GFL3GK15963Q00 | 2 | 0.02 |
| 17 | 85 Stud Bolt + 2 Heavy Nuts ASME B1.1 ASTM A193 Gr.B7 - A194 Gr.2H Hot dip galvanized | 5/8 | SB20BO00660300 | 8 | 1.92 |
| 18 | 70 Stud Bolt + 2 Heavy Nuts ASME B1.1 ASTM A193 Gr.B7 - A194 Gr.2H Hot dip galvanized | 1/2 | SB20BO00930200 | 28 | 3.36 |
| 19 | 65 Stud Bolt + 2 Heavy Nuts ASME B1.1 ASTM A193 Gr.B7 - A194 Gr.2H Hot dip galvanized | 1/2 | SB20BO01080200 | 8 | 0.96 |
| 20 | Ball Valve Split Body FB API 6D FLG 150LB RF BA01F01RF | 2 | VBC0NN24460200 | 1 | 19.20 |
| 21 | Check Valve Piston EN ISO 15761 FLG 150LB RF CH01F02RF | 1.1/2 | VDRNNN02511H00 | 1 | 0.00 |
| 22 | Block & Bleed Valve API 6D FLG 150LB RF BS01F01RFS | 1.1/2 | VLBLNN01381H00 | 1 | 28.00 |
| 23 | Ball Valve Split Body FB API 6D FLG 150LB RF BS01F01RF | 3/4 | VBC0NN24433Q00 | 1 | 7.00 |
| | INSTRUMENTS | | | | |
| 24 | ON/OFF Ball Actuator Valve - 150#RF Flanged 50-XV-001 | 1.1/2 | | 1 | 54.00 |
| | SUPPORTS | | | | |
| 25 | /PS-01011.1 | 1.1/2 | | 1 | 2.50 |
| 26 | /PS-01013.1 | 1.1/2 | | 1 | 2.50 |
| | | | TOTAL ERECTION WEIGHT | | 120.47 |
| | | | TOTAL WEIGHT | | 154.72 |

| REFERENCE DOCUMENTS | |
|---|---|
| 123A90-DDL-PP-RE-70001 | STRESS ANALYSIS REPORT |
| 123A90-DDL-PR-PID-80021 | P&ID |
| 123A90-DDL-MAT-SP-60003 | INSULATION SPECIFICATION |
| 123A90-DDL-MAT-SP-60006 | COATING & PAINTING SPEC. |
| 123A90-DDL-PP-00-72000 | PIPING SUPPORT BOOK |
| 123A90-DDL-PP-SP-70029 | PIPING MATERIAL CLASS |

SYMBOLS LEGEND:
BUTT WELD · THREADED · HEAT TRACING · SOCKET · PIPE SUPPORT · INSULATED

| NDT EXAMINATION | | | |
|---|---|---|---|
| NDT TYPE | % | NDT TYPE | % |
| RT | 10 | VT | 100 |
| INSPECTION CATEGORY | 2 | MT/PT | 10 |
| TESTING | | | |
| TEST FLUID | | TEST PRESS. (barg) | |
| Water | | 11.40 | |
| PROCESS LINE DATA | | | |
| DESIGN TEMP. (°C) | | DESIGN PRESS. (barg) | |
| -29 | 100 | | 7.6 |

| INSULATION & PAINTING | | |
|---|---|---|
| INS. TYPE | INS. THK. | INS. SURF. (m²) |
| H | 20mm | 1.24 |
| PAINT SYS. | BASE RAL | PAINT. SURF. (m²) |
| N/A | N/A | |
| HEAT TRACING | | |
| YES | | |
| LINE DATA | | |
| STRESS SYS. | PED CAT. | PWHT |
| - | Art. 4, par. 3 | No |

| Revision Number | Date | Description | Prepared by | Checked by | Approved by |
|---|---|---|---|---|---|
| 02 | 29/09/25 | AS-BUILT (ASB) | SPS | CBO | CGI |
| 01 | 26/07/24 | ACCEPTED FOR CONSTRUCTION | MMA | CBO | DLO |
| 00 | 07/06/24 | ISSUE FOR REVIEW | MMA | CBO | DLO |

ROSETTI MARINO

CROSSWIND

DWG TYTLE:

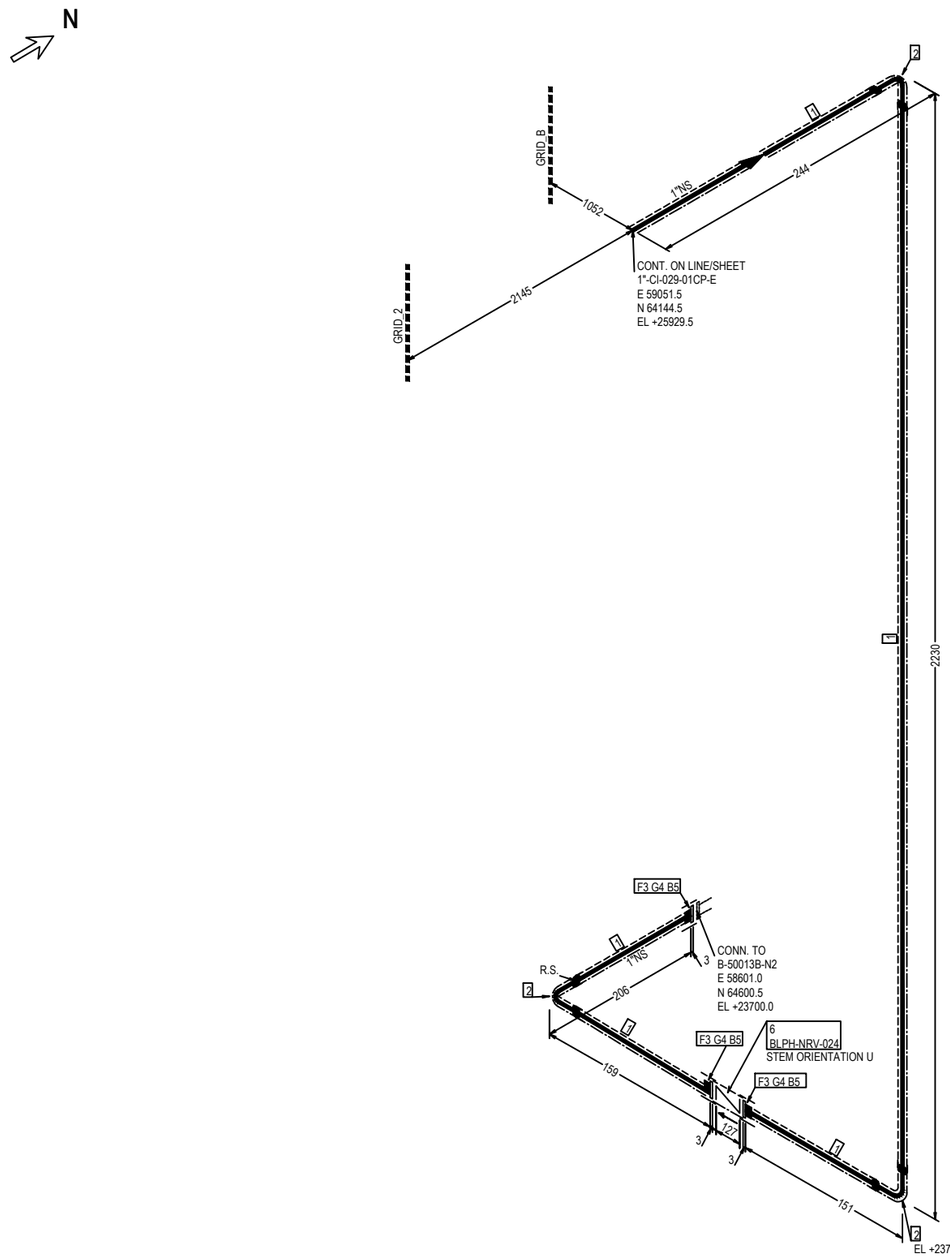
# 1-1/2"-SWS-031-01SD-E

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK | SCALE N.A.

DRAWN SPS | CHECKED CBO | APPROVED CGI | DATE 29/09/25

SIZE: A3 | DRAWING NO. 123A90-DDL-PP-DI-71000_023 | SHEET 1/1 | REV. 02

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ERECTION MATERIALS

| PT NO | COMPONENT DESCRIPTION | N.S. | ITEM CODE | Q.TY | WEIGHT |
|---|---|---|---|---|---|
| 1 | Pipe - Plastic ASTM F441 PE 4,55 PLT CPVC | 1 | PIPPPV00160100 | 2948MM | 1.18 |
| 2 | 90 Deg Elbow - Plastic ASTM F439 SOCKET 10 Bar PLT CPVC | 1 | E90PPV00360100 | 3 | 0.27 |
| 3 | Flange - Plastic Flanged as per ASME B16.5 SOCKET 150LB FF PLT CPVC | 1 | FLAPPV00010100 | 3 | 0.63 |
| 4 | Gasket Flat Thk. 3 mm ASME B16.21 150LB FF GSK NITRILE RUBBER | 1 | GFL3GK13690100 | 3 | 0.15 |
| 5 | 65 Stud Bolt + 2 Heavy Nuts & Washers ASME B1.1 ASTM A193 Gr.B7 - A194 Gr.2H Hot dip galvanized | 1/2 | SB2WBO00010200 | 12 | 1.44 |
| 6 | Check Valve Piston Manuf.s STD FLG 150LB FF CH01P01KT | 1 | VDRNNN02640100 | 1 | 0.00 |
| | | | TOTAL ERECTION WEIGHT | | 4.15 |
| | | | TOTAL WEIGHT | | 4.15 |

| REFERENCE DOCUMENTS | |
|---|---|
| 123A90-DDL-PP-RE-70001 | STRESS ANALYSIS REPORT |
| 123A90-DDL-PR-PID-80021 | P&ID |
| 123A90-DDL-MAT-SP-60003 | INSULATION SPECIFICATION |
| 123A90-DDL-MAT-SP-60006 | COATING & PAINTING SPEC. |
| 123A90-DDL-PP-00-72000 | PIPING SUPPORT BOOK |
| 123A90-DDL-PP-SP-70029 | PIPING MATERIAL CLASS |

SYMBOLS LEGEND:
BUTT WELD · THREADED · HEAT TRACING
SOCKET · PIPE SUPPORT · INSULATED

| NDT EXAMINATION | | | |
|---|---|---|---|
| NDT TYPE | % | NDT TYPE | % |
| RT | unset | N.A. | unset |
| INSPECTION CATEGORY | N/A | MT/PT | unset |
| TESTING | | | |
| TEST FLUID | | TEST PRESS. (barg) | |
| Water | | 6.75 | |
| PROCESS LINE DATA | | | |
| DESIGN TEMP. (°C) | | DESIGN PRESS. (barg) | |
| 5 | 50 | | 4.5 |

| INSULATION & PAINTING | | |
|---|---|---|
| INS. TYPE | INS. THK. | INS. SURF. (m²) |
| H | 20mm | 0.81 |
| PAINT SYS. | BASE RAL | PAINT. SURF. (m²) |
| N/A | N/A | |
| HEAT TRACING | | |
| YES | | |
| LINE DATA | | |
| STRESS SYS. | PED CAT. | PWHT |
| - | Art. 4, par. 3 | No |

| Revision Number | Date | Description | Prepared by | Checked by | Approved by |
|---|---|---|---|---|---|
| 02 | 29/09/25 | AS-BUILT (ASB) | SPS | CBO | CGI |
| 01 | 26/07/24 | ACCEPTED FOR CONSTRUCTION | MMA | CBO | DLO |
| 00 | 07/06/24 | ISSUE FOR REVIEW | MMA | CBO | DLO |

ROSETTI MARINO

# CROSSWIND

DWG TYTLE:

# 1"-CI-032-01CP-E

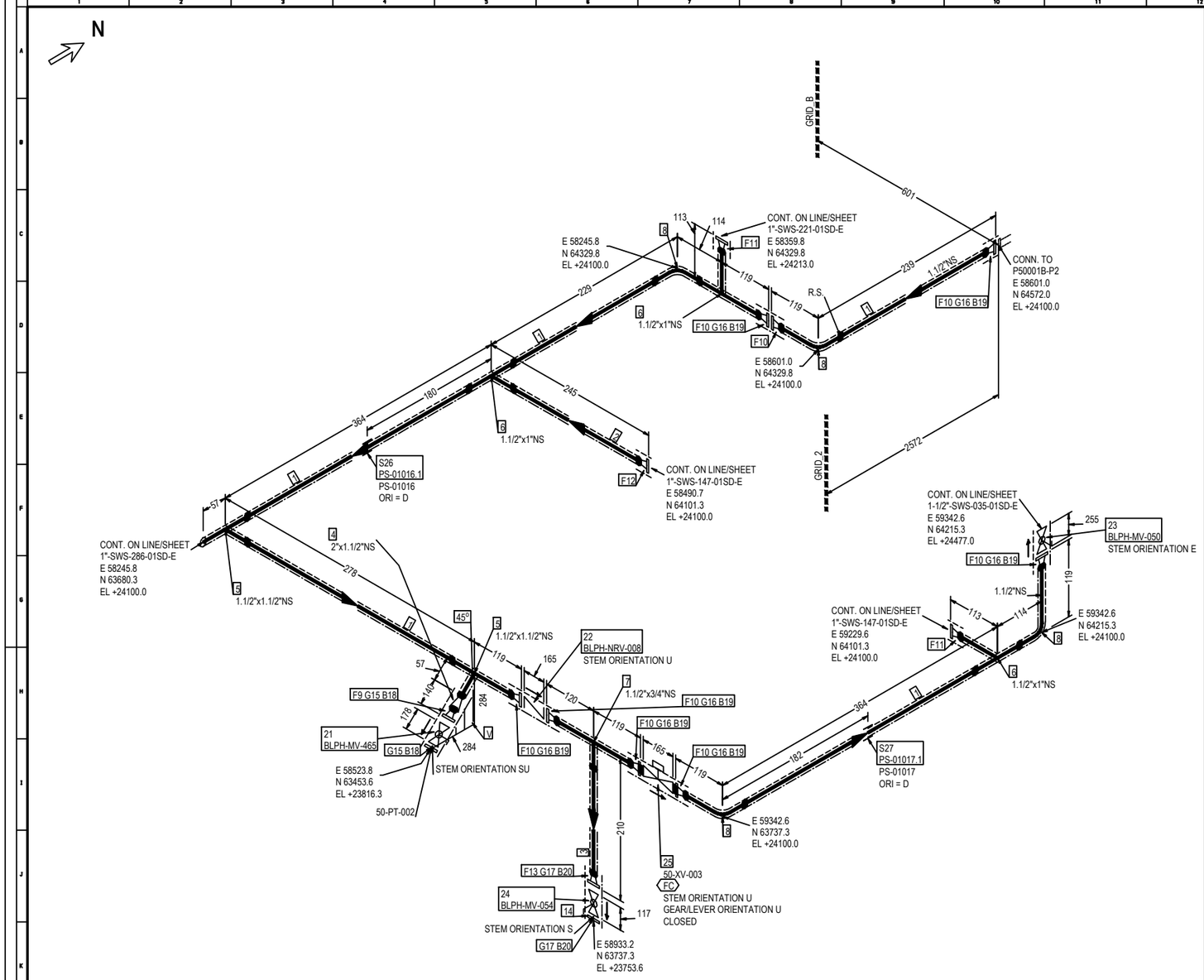
CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK

SCALE N.A.

DRAWN SPS | CHECKED CBO | APPROVED CGI | DATE 29/09/25

SIZE: A3 | DRAWING NO. 123A90-DDL-PP-DI-71000_024 | SHEET 1/1 | REV. 02

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FABRICATION MATERIALS

| PT NO | COMPONENT DESCRIPTION | N.S. | ITEM CODE | Q.TY | WEIGHT |
|---|---|---|---|---|---|
| 1 | Pipe ASME B36.19M PE 3,68 SML ASTM A790 UNS S32760 | 1.1/2 | PIPESD04761H00 | 899MM | 3.69 |
| 2 | Pipe ASME B36.19M PE 3,38 SML ASTM A790 UNS S32760 | 1 | PIPESD02850100 | 132MM | 0.34 |
| 3 | Pipe ASME B36.19M PE 2,87 SML ASTM A790 UNS S32760 | 3/4 | PIPESD04753Q00 | 100MM | 0.17 |
| 4 | Reducer Concentric ASME B16.9 BW 2,77x3,68 WRS ASTM A815 UNS S32760 | 2 x 1.1/2 | REC0SD0803021H | 1 | 0.31 |
| 5 | Tee ASME B16.9 BW 3,68 WRS ASTM A815 UNS S32760 | 1.1/2 x 1.1/2 | TEE0SD02931H00 | 2 | 1.66 |
| 6 | Tee Reducing ASME B16.9 BW 3,68x3,38 WRS ASTM A815 UNS S32760 | 1.1/2 x 1 | TER0SD09381H01 | 3 | 2.25 |
| 7 | Tee Reducing ASME B16.9 BW 3,68x2,87 WRS ASTM A815 UNS S32760 | 1.1/2 x 3/4 | TER0SD09371H3Q | 1 | 0.75 |
| 8 | 90 Deg Elbow Long Radius ASME B16.9 BW 3,68 WRS ASTM A815 UNS S32760 | 1.1/2 | E90RSD03031H00 | 4 | 1.52 |
| 9 | Flange WN ASME B16.5 150LB RF 2,77 FRG ASTM A182 Gr.F55 | 2 | FLW0SD01250200 | 1 | 2.75 |
| 10 | Flange WN ASME B16.5 150LB RF 3,68 FRG ASTM A182 Gr.F55 | 1.1/2 | FLW0SD02861H00 | 8 | 14.72 |
| 11 | Flange WN ASME B16.5 150LB RF 3,38 FRG ASTM A182 Gr.F55 | 1 | FLW0SD01240100 | 2 | 2.86 |
| 12 | Flange WN For Jackscrews ASME B16.5 150LB RF 3,38 FRG ASTM A182 Gr.F55 | 1 | FLWDSD00300100 | 1 | 1.43 |
| 13 | Flange WN ASME B16.5 150LB RF 2,87 FRG ASTM A182 Gr.F55 | 3/4 | FLW0SD02853Q00 | 1 | 0.92 |
| | | | TOTAL FABRICATION WEIGHT | | 33.37 |

ERECTION MATERIALS

| PT NO | COMPONENT DESCRIPTION | N.S. | ITEM CODE | Q.TY | WEIGHT |
|---|---|---|---|---|---|
| 14 | Flange Blind ASME B16.5 150LB RF FRG ASTM A182 Gr.F55 | 3/4 | FLB0SD01843Q00 | 1 | 0.92 |
| 15 | Gasket Flat Thk. 3 mm ASME B16.21 150LB RF GSK NEOPRENE | 2 | GFL3GK13230200 | 2 | 0.02 |
| 16 | Gasket Flat Thk. 3 mm ASME B16.21 150LB RF GSK NEOPRENE | 1.1/2 | GFL3GK15981H00 | 7 | 0.07 |
| 17 | Gasket Flat Thk. 3 mm ASME B16.21 150LB RF GSK NEOPRENE | 3/4 | GFL3GK15963Q00 | 2 | 0.02 |
| 18 | 85 Stud Bolt + 2 Heavy Nuts ASME B1.1 ASTM A193 Gr.B7 - A194 Gr.2H Hot dip galvanized | 5/8 | SB20BO00660300 | 8 | 1.92 |
| 19 | 70 Stud Bolt + 2 Heavy Nuts ASME B1.1 ASTM A193 Gr.B7 - A194 Gr.2H Hot dip galvanized | 1/2 | SB20BO00930200 | 28 | 3.36 |
| 20 | 65 Stud Bolt + 2 Heavy Nuts ASME B1.1 ASTM A193 Gr.B7 - A194 Gr.2H Hot dip galvanized | 1/2 | SB20BO01080200 | 8 | 0.96 |
| 21 | Ball Valve Split Body FB API 6D FLG 150LB RF BA01F01RF | 2 | VBC0NN24460200 | 1 | 19.20 |
| 22 | Check Valve Piston EN ISO 15761 FLG 150LB RF CH01F02RF | 1.1/2 | VDRNNN02511H00 | 1 | 0.00 |
| 23 | Block & Bleed Valve API 6D FLG 150LB RF BS01F01RFS | 1.1/2 | VLBLNN01381H00 | 1 | 28.00 |
| 24 | Ball Valve Split Body FB API 6D FLG 150LB RF BS01F01RF | 3/4 | VBC0NN24433Q00 | 1 | 7.00 |
| | INSTRUMENTS | | | | |
| 25 | ON/OFF Ball Actuator Valve - 150#RF Flanged 50-XV-003 | 1.1/2 | | 1 | 54.00 |
| | SUPPORTS | | | | |
| 26 | /PS-01016.1 | 1.1/2 | | 1 | 2.50 |
| 27 | /PS-01017.1 | 1.1/2 | | 1 | 2.50 |
| | | | TOTAL ERECTION WEIGHT | | 120.47 |
| | | | TOTAL WEIGHT | | 153.84 |

| REFERENCE DOCUMENTS | | NDT EXAMINATION | | | | INSULATION & PAINTING | | |
|---|---|---|---|---|---|---|---|---|
| 123A90-DDL-PP-RE-70001 | STRESS ANALYSIS REPORT | NDT TYPE | % | NDT TYPE | % | INS. TYPE | INS. THK. | INS. SURF. (m²) |
| 123A90-DDL-PR-PID-80021 | P&ID | RT | 10 | VT | 100 | H | 20mm | 1.17 |
| 123A90-DDL-MAT-SP-60003 | INSULATION SPECIFICATION | INSPECTION CATEGORY | 2 | MT/PT | 10 | PAINT SYS. | BASE RAL | PAINT. SURF. (m²) |
| 123A90-DDL-MAT-SP-60006 | COATING & PAINTING SPEC. | TESTING | | | | N/A | N/A | |
| 123A90-DDL-PP-00-72000 | PIPING SUPPORT BOOK | TEST FLUID | | TEST PRESS. (barg) | | HEAT TRACING | | |
| 123A90-DDL-PP-SP-70029 | PIPING MATERIAL CLASS | Water | | 11.40 | | YES | | |
| SYMBOLS LEGEND: BUTT WELD, THREADED, HEAT TRACING, SOCKET, PIPE SUPPORT, INSULATED | | PROCESS LINE DATA | | | | LINE DATA | | |
| | | DESIGN TEMP. (°C) | | DESIGN PRESS. (barg) | | STRESS SYS. | PED CAT. | PWHT |
| | | -29 | 100 | | 7.6 | - | Art. 4, par. 3 | No |

| Revision Number | Date | Description | Prepared by | Checked by | Approved by |
|---|---|---|---|---|---|
| 02 | 29/09/25 | AS-BUILT (ASB) | SPS | CBO | CGI |
| 01 | 26/07/24 | ACCEPTED FOR CONSTRUCTION | MMA | CBO | DLO |
| 00 | 07/06/24 | ISSUE FOR REVIEW | MMA | CBO | DLO |

ROSETTI MARINO

# CROSSWIND

DWG TYTLE:

## 1-1/2"-SWS-033-01SD-E

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK

SCALE N.A.

DRAWN SPS | CHECKED CBO | APPROVED CGI | DATE 29/09/25

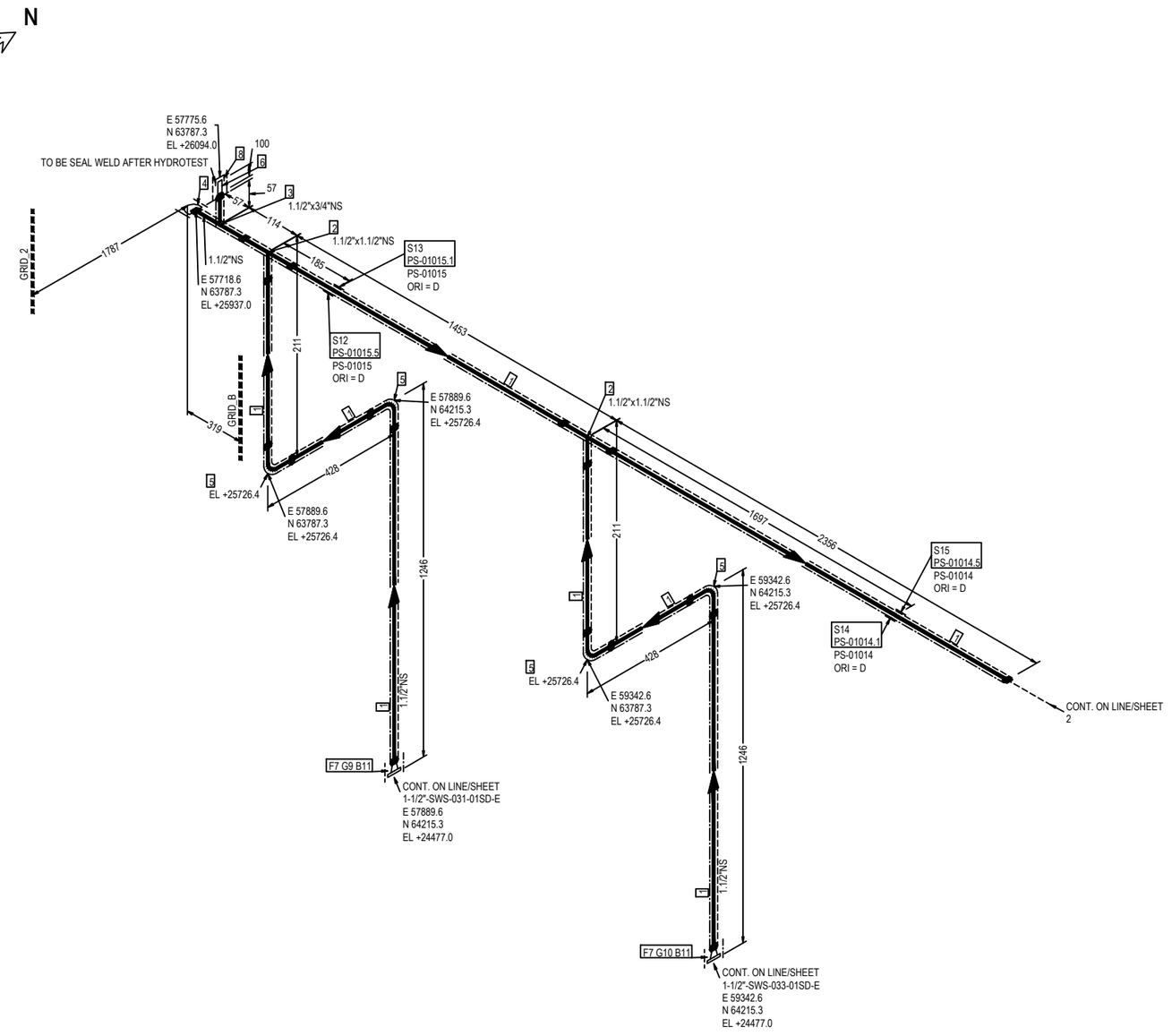
SIZE: A3

DRAWING NO. 123A90-DDL-PP-DI-71000_025

SHEET 1/1

REV. 02

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FABRICATION MATERIALS

| PT NO | COMPONENT DESCRIPTION | N.S. | ITEM CODE | Q.TY | WEIGHT |
|---|---|---|---|---|---|
| 1 | Pipe ASME B36.19M PE 3,68 SML ASTM A790 UNS S32760 | 1.1/2 | PIPESD04761H00 | 6714MM | 27.53 |
| 2 | Tee ASME B16.9 BW 3,68 WRS ASTM A815 UNS S32760 | 1.1/2 x 1.1/2 | TEE0SD02931H00 | 2 | 1.66 |
| 3 | Tee Reducing ASME B16.9 BW 3,68x2,87 WRS ASTM A815 UNS S32760 | 1.1/2 x 3/4 | TER0SD09371H3Q | 1 | 0.75 |
| 4 | Cap ASME B16.9 BW 3,68 WRS ASTM A815 UNS S32760 | 1.1/2 | CAP0SD02721H00 | 1 | 0.19 |
| 5 | 90 Deg Elbow Long Radius ASME B16.9 BW 3,68 WRS ASTM A815 UNS S32760 | 1.1/2 | E90RSD03031H00 | 4 | 1.52 |
| 6 | Nipple L=100mm ASME B36.19M THRD-M NPT x PE 2,87 SML ASTM A790 UNS S32760 | 3/4 | N100SD00403Q00 | 1 | 0.15 |
| 7 | Flange WN ASME B16.5 150LB RF 3,68 FRG ASTM A182 Gr.F55 | 1.1/2 | FLW0SD02861H00 | 2 | 3.68 |
| | | | TOTAL FABRICATION WEIGHT | | 35.48 |

ERECTION MATERIALS

| PT NO | COMPONENT DESCRIPTION | N.S. | ITEM CODE | Q.TY | WEIGHT |
|---|---|---|---|---|---|
| 8 | Cap Forged ASME B16.11 THRD-F NPT 3000# FRG ASTM A182 Gr.F55 | 3/4 | CAPFSD00073Q00 | 1 | 0.19 |
| 9 | Gasket Flat Thk. 3 mm ASME B16.21 150LB RF GSK NEOPRENE | 1.1/2 | GFL3GK15981H00 | 1 | 0.01 |
| 10 | Gasket Spiral Wound Thk. 3.2 mm ASME B16.20 150LB RF GSK UNS S32760+GRAPHITE c/w INNER RING | 1.1/2 | GSW0GK05991H00 | 1 | 0.07 |
| 11 | 70 Stud Bolt + 2 Heavy Nuts ASME B1.1 ASTM A193 Gr.B7 - A194 Gr.2H Hot dip galvanized | 1/2 | SB20BO00930200 | 8 | 0.96 |
| | SUPPORTS | | | | |
| 12 | /PS-01015.5 | 1.1/2 | | 1 | 0.69 |
| 13 | /PS-01015.1 | 1.1/2 | | 1 | 2.50 |
| 14 | /PS-01014.1 | 1.1/2 | | 1 | 2.50 |
| 15 | /PS-01014.5 | 1.1/2 | | 1 | 0.69 |
| | | | TOTAL ERECTION WEIGHT | | 7.61 |
| | | | TOTAL WEIGHT | | 43.09 |

| REFERENCE DOCUMENTS | |
|---|---|
| 123A90-DDL-PP-RE-70001 | STRESS ANALYSIS REPORT |
| 123A90-DDL-PR-PID-80021 | P&ID |
| 123A90-DDL-MAT-SP-60003 | INSULATION SPECIFICATION |
| 123A90-DDL-MAT-SP-60006 | COATING & PAINTING SPEC. |
| 123A90-DDL-PP-00-72000 | PIPING SUPPORT BOOK |
| 123A90-DDL-PP-SP-70029 | PIPING MATERIAL CLASS |

SYMBOLS LEGEND:
BUTT WELD · THREADED · HEAT TRACING · SOCKET · PIPE SUPPORT · INSULATED

| NDT EXAMINATION | | | |
|---|---|---|---|
| NDT TYPE | % | NDT TYPE | % |
| RT | 10 | VT | 100 |
| INSPECTION CATEGORY | 2 | MT/PT | 10 |
| TESTING | | | |
| TEST FLUID | | TEST PRESS. [barg] | |
| Water | | 9.00 | |
| PROCESS LINE DATA | | | |
| DESIGN TEMP. [°C] | | DESIGN PRESS. [barg] | |
| -29 | 100 | | 7.6 |

| INSULATION & PAINTING | | |
|---|---|---|
| INS. TYPE | INS. THK. | INS. SURF. [m²] |
| H | 20mm | 4.55 |
| PAINT SYS. | BASE RAL | PAINT. SURF. [m²] |
| N/A | N/A | |
| HEAT TRACING | | |
| YES | | |
| LINE DATA | | |
| STRESS SYS. | PED CAT. | PWHT |
| - | Art. 4, par. 3 | No |

| Revision Number | Date | Description | Prepared by | Checked by | Approved by |
|---|---|---|---|---|---|
| 02 | 29/09/25 | AS-BUILT (ASB) | SPS | CBO | CGI |
| 01 | 26/07/24 | ACCEPTED FOR CONSTRUCTION | MMA | CBO | DLO |
| 00 | 07/06/24 | ISSUE FOR REVIEW | MMA | CBO | DLO |

ROSETTI MARINO

# CROSSWIND

DWG TYTLE:

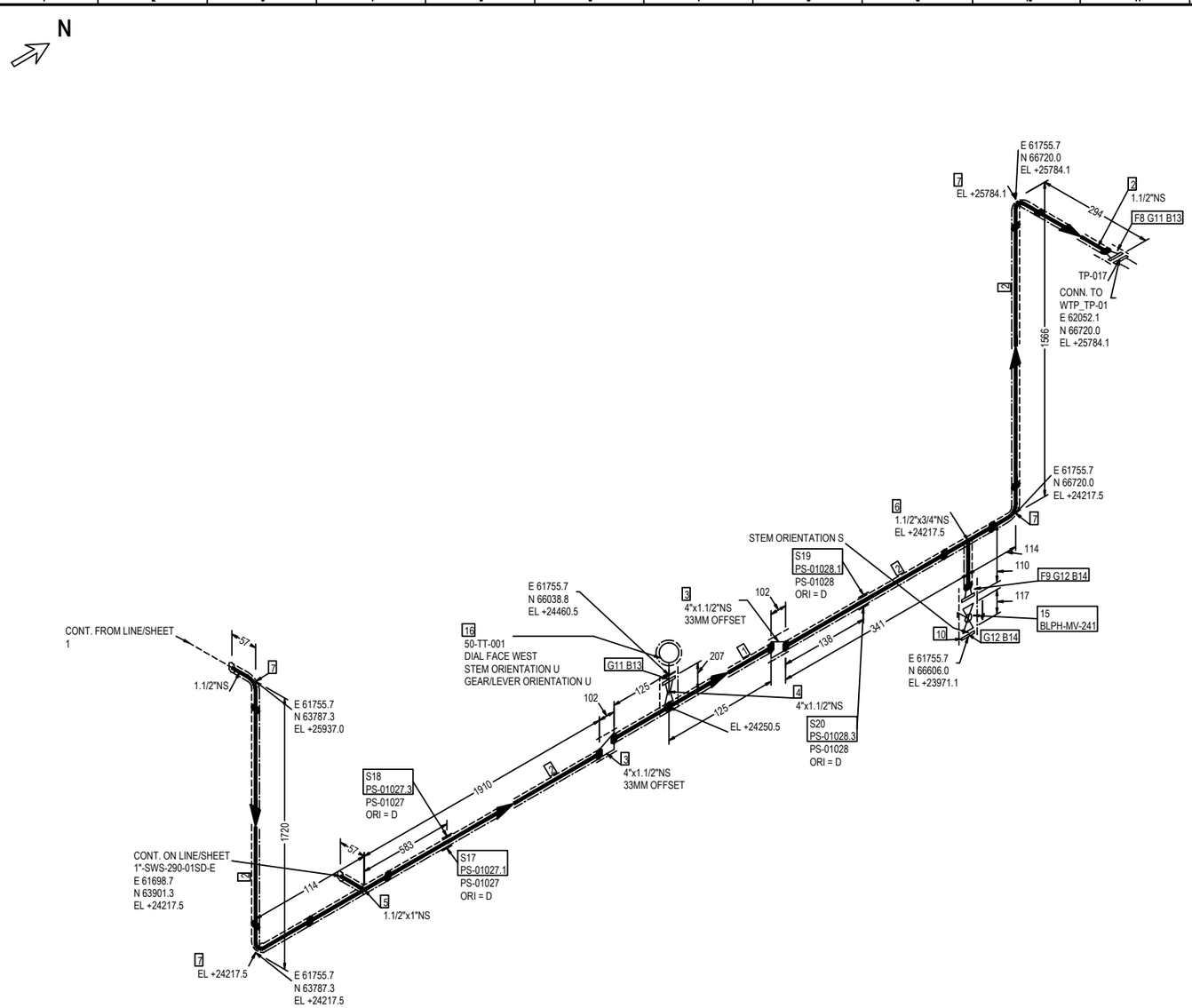
## 1-1/2"-SWS-035-01SD-E

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK | SCALE N.A.

DRAWN SPS | CHECKED CBO | APPROVED CGI | DATE 29/09/25

SIZE: A3 | DRAWING NO. 123A90-DDL-PP-DI-71000_026 | SHEET 1/2 | REV. 02

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FABRICATION MATERIALS

| PT NO | COMPONENT DESCRIPTION | N.S. | ITEM CODE | Q.TY | WEIGHT |
|---|---|---|---|---|---|
| 1 | Pipe ASME B36.19M PE 3,05 SML ASTM A790 UNS S32760 | 4 | PIPESD02880400 | 250MM | 2.12 |
| 2 | Pipe ASME B36.19M PE 3,68 SML ASTM A790 UNS S32760 | 1.1/2 | PIPESD04761H00 | 5370MM | 22.02 |
| 3 | Reducer Eccentric ASME B16.9 BW 3,05x3,68 WRS ASTM A815 UNS S32760 | 4 x 1.1/2 | REE0SD0809041H | 2 | 1.68 |
| 4 | NipoFlange Reinforced Manuf.s STD 150LB RF 3,05x3,68 FRG ASTM A182 Gr.F55 | 4 x 1.1/2 | ONFRSD0200041H | 1 | 3.30 |
| 5 | Tee Reducing ASME B16.9 BW 3,68x3,38 WRS ASTM A815 UNS S32760 | 1.1/2 x 1 | TER0SD09381H01 | 1 | 0.75 |
| 6 | Tee Reducing ASME B16.9 BW 3,68x2,87 WRS ASTM A815 UNS S32760 | 1.1/2 x 3/4 | TER0SD09371H3Q | 1 | 0.75 |
| 7 | 90 Deg Elbow Long Radius ASME B16.9 BW 3,68 WRS ASTM A815 UNS S32760 | 1.1/2 | E90RSD03031H00 | 4 | 1.52 |
| 8 | Flange WN ASME B16.5 150LB RF 3,68 FRG ASTM A182 Gr.F55 | 1.1/2 | FLW0SD02861H00 | 1 | 1.84 |
| 9 | Flange WN ASME B16.5 150LB RF 2,87 FRG ASTM A182 Gr.F55 | 3/4 | FLW0SD02853Q00 | 1 | 0.92 |
| | | | | TOTAL FABRICATION WEIGHT | 34.90 |

ERECTION MATERIALS

| PT NO | COMPONENT DESCRIPTION | N.S. | ITEM CODE | Q.TY | WEIGHT |
|---|---|---|---|---|---|
| 10 | Flange Blind ASME B16.5 150LB RF FRG ASTM A182 Gr.F55 | 3/4 | FLB0SD01843Q00 | 1 | 0.92 |
| 11 | Gasket Flat Thk. 3 mm ASME B16.21 150LB RF GSK NEOPRENE | 1.1/2 | GFL3GK15981H00 | 2 | 0.02 |
| 12 | Gasket Flat Thk. 3 mm ASME B16.21 150LB RF GSK NEOPRENE | 3/4 | GFL3GK15963Q00 | 2 | 0.02 |
| 13 | 70 Stud Bolt + 2 Heavy Nuts ASME B1.1 ASTM A193 Gr.B7 - A194 Gr.2H Hot dip galvanized | 1/2 | SB20BO00930200 | 8 | 0.96 |
| 14 | 65 Stud Bolt + 2 Heavy Nuts ASME B1.1 ASTM A193 Gr.B7 - A194 Gr.2H Hot dip galvanized | 1/2 | SB20BO01080200 | 8 | 0.96 |
| 15 | Ball Valve Split Body FB API 6D FLG 150LB RF BS01F01RF | 3/4 | VBC0NN24433Q00 | 1 | 7.00 |
| | INSTRUMENTS | | | | |
| 16 | Temperature Trasmitter 150# 50-TT-001 | 1.1/2 | | 1 | --- |
| | SUPPORTS | | | | |
| 17 | /PS-01027.1 | 1.1/2 | | 1 | 2.50 |
| 18 | /PS-01027.3 | 1.1/2 | | 1 | 0.69 |
| 19 | /PS-01028.1 | 1.1/2 | | 1 | 2.50 |
| 20 | /PS-01028.3 | 1.1/2 | | 1 | 0.69 |
| | | | | TOTAL ERECTION WEIGHT | 16.26 |
| | | | | TOTAL WEIGHT | 51.16 |

| REFERENCE DOCUMENTS | | NDT EXAMINATION | | | | INSULATION & PAINTING | | |
|---|---|---|---|---|---|---|---|---|
| 123A90-DDL-PP-RE-70001 | STRESS ANALYSIS REPORT | NDT TYPE | % | NDT TYPE | % | INS. TYPE | INS. THK. | INS. SURF. (m²) |
| 123A90-DDL-PR-PID-80021 | P&ID | RT | 10 | VT | 100 | H | 20mm | SEE Sh1 |
| 123A90-DDL-MAT-SP-60003 | INSULATION SPECIFICATION | INSPECTION CATEGORY | 2 | MT/PT | 10 | PAINT SYS. | BASE RAL | PAINT. SURF. (m²) |
| 123A90-DDL-MAT-SP-60006 | COATING & PAINTING SPEC. | TESTING | | | | N/A | N/A | SEE Sh1 |
| 123A90-DDL-PP-00-72000 | PIPING SUPPORT BOOK | TEST FLUID | | TEST PRESS. (barg) | | HEAT TRACING | | |
| 123A90-DDL-PP-SP-70029 | PIPING MATERIAL CLASS | Water | | 9.00 | | YES | | |
| SYMBOLS LEGEND: | | PROCESS LINE DATA | | | | LINE DATA | | |
| BUTT WELD / THREADED / HEAT TRACING | | DESIGN TEMP. (°C) | | DESIGN PRESS. (barg) | | STRESS SYS. | PED CAT. | PWHT |
| SOCKET / PIPE SUPPORT / INSULATED | | -29 | 100 | | 7.6 | - | Art. 4, par. 3 | No |

| Revision Number | Date | Description | Prepared by | Checked by | Approved by |
|---|---|---|---|---|---|
| 02 | 29/09/25 | AS-BUILT (ASB) | SPS | CBO | CGI |
| 01 | 26/07/24 | ACCEPTED FOR CONSTRUCTION | MMA | CBO | DLO |
| 00 | 07/06/24 | ISSUE FOR REVIEW | MMA | CBO | DLO |

ROSETTI MARINO

CROSSWIND

DWG TYTLE:

# 1-1/2"-SWS-035-01SD-E

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK

SCALE N.A.

DRAWN SPS | CHECKED CBO | APPROVED CGI | DATE 29/09/25

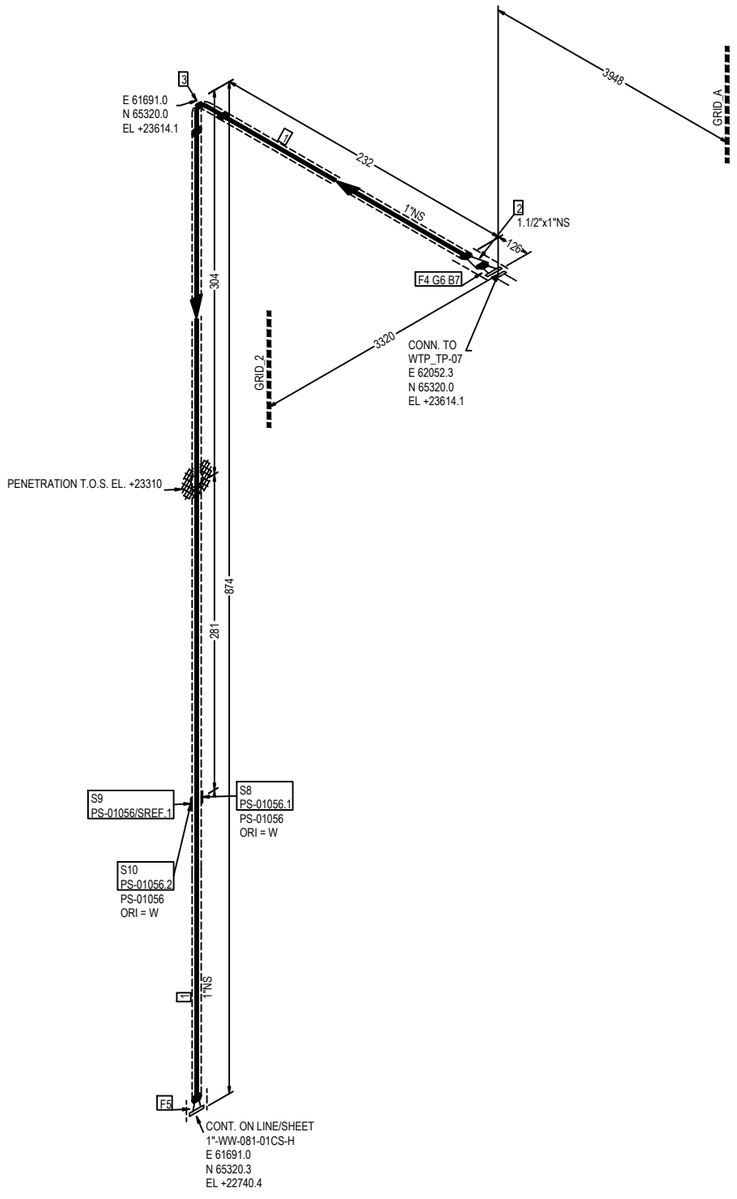
SIZE: A3

DRAWING NO. 123A90-DDL-PP-DI-71000_026

SHEET 2/2

REV. 02

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FABRICATION MATERIALS

| PT NO | COMPONENT DESCRIPTION | N.S. | ITEM CODE | Q.TY | WEIGHT |
|---|---|---|---|---|---|
| 1 | Pipe ASME B36.10M PE 4,55 SML ASTM/ASME A/SA333 Gr.6 | 1 | PIPECS08300100 | 974MM | 3.12 |
| 2 | Reducer Concentric ASME B16.9 BW 5,08x4,55 WRS ASTM/ASME A/SA420 Gr.WPL6 | 1.1/2 x 1 | REC0CS220091H01 | 1 | 0.36 |
| 3 | 90 Deg Elbow Long Radius ASME B16.9 BW 4,55 WRS ASTM/ASME A/SA420 Gr.WPL6 | 1 | E90RCS01780100 | 1 | 0.18 |
| 4 | Flange WN ASME B16.5 150LB RF 5,08 FRG ASTM/ASME A/SA350 Gr.LF2 | 1.1/2 | FLW0CS16561H00 | 1 | 1.80 |
| 5 | Flange WN ASME B16.5 150LB RF 4,55 FRG ASTM/ASME A/SA350 Gr.LF2 | 1 | FLW0CS16540100 | 1 | 1.40 |
| | | | TOTAL FABRICATION WEIGHT | | 6.86 |

ERECTION MATERIALS

| PT NO | COMPONENT DESCRIPTION | N.S. | ITEM CODE | Q.TY | WEIGHT |
|---|---|---|---|---|---|
| 6 | Gasket Spiral Wound Thk. 3.2 mm ASME B16.20 150LB RF GSK AISI 316 + GRAPHITE c/w INNER RING | 1.1/2 | GSW0GK11121H00 | 1 | 0.07 |
| 7 | 70 Stud Bolt + 2 Heavy Nuts ASME B1.1 ASTM A193 Gr.B7 - A194 Gr.2H Hot dip galvanized | 1/2 | SB20BO00930200 | 4 | 0.48 |
| | SUPPORTS | | | | |
| 8 | /PS-01056.1 | 1 | | 1 | 2.31 |
| 9 | | 1 | | 1 | 0.00 |
| 10 | /PS-01056.2 | 1 | | 1 | 0.69 |
| | | | TOTAL ERECTION WEIGHT | | 3.55 |
| | | | TOTAL WEIGHT | | 10.41 |

| REFERENCE DOCUMENTS | |
|---|---|
| 123A90-DDL-PP-RE-70001 | STRESS ANALYSIS REPORT |
| 123A90-DDL-PR-PID-80022 | P&ID |
| 123A90-DDL-MAT-SP-60003 | INSULATION SPECIFICATION |
| 123A90-DDL-MAT-SP-60006 | COATING & PAINTING SPEC. |
| 123A90-DDL-PP-00-72000 | PIPING SUPPORT BOOK |
| 123A90-DDL-PP-SP-70029 | PIPING MATERIAL CLASS |

SYMBOLS LEGEND:
BUTT WELD · THREADED · HEAT TRACING · SOCKET · PIPE SUPPORT · INSULATED

| NDT EXAMINATION | | | |
|---|---|---|---|
| NDT TYPE | % | NDT TYPE | % |
| RT | 10 | VT | 100 |
| INSPECTION CATEGORY | 2 | MT/PT | 10 |
| TESTING | | | |
| TEST FLUID | | TEST PRESS.(barg) | |
| Water | | 5.25 | |

| PROCESS LINE DATA | | | |
|---|---|---|---|
| DESIGN TEMP. (°C) | | DESIGN PRESS.(barg) | |
| -46 | 100 | | 3.5 |

| INSULATION & PAINTING | | |
|---|---|---|
| INS. TYPE | INS. THK. | INS. SURF. (m²) |
| H | 20mm | 0.33 |
| PAINT SYS. | BASE RAL | PAINT. SURF. (m²) |
| 9 | N/A | 0.13 |
| HEAT TRACING | | |
| - | | |

| LINE DATA | | |
|---|---|---|
| STRESS SYS. | PED CAT. | PWHT |
| - | Art. 4, par. 3 | No |

| Revision Number | Date | Description | Prepared by | Checked by | Approved by |
|---|---|---|---|---|---|
| 02 | 29/09/25 | AS-BUILT (ASB) | SPS | CBO | CGI |
| 01 | 26/07/24 | ACCEPTED FOR CONSTRUCTION | MMA | CBO | DLO |
| 00 | 07/06/24 | ISSUE FOR REVIEW | MMA | CBO | DLO |

ROSETTI MARINO

CROSSWIND

DWG TYTLE:

# 1"-WW-038-01CS-H

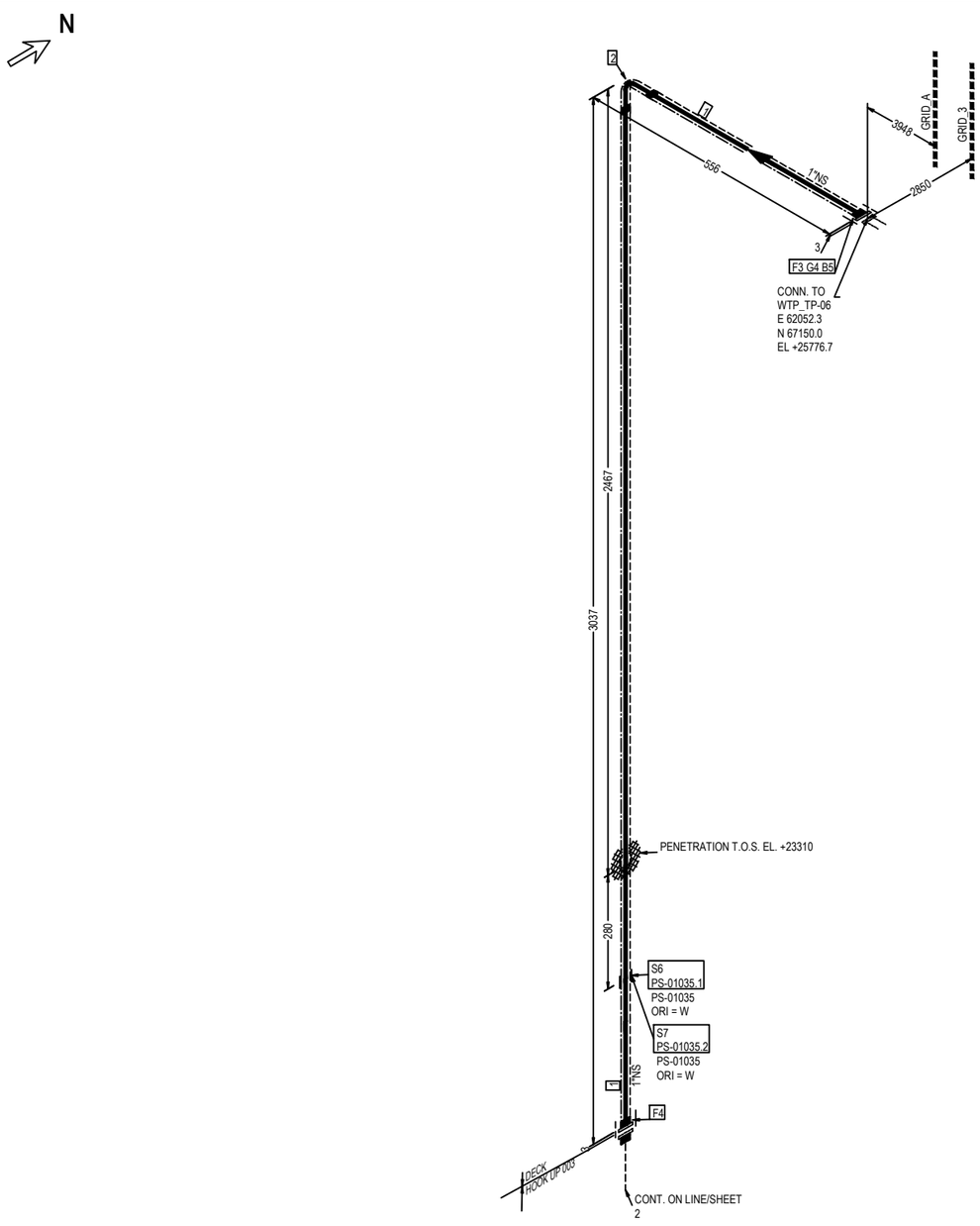
CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK

SCALE N.A.

DRAWN SPS | CHECKED CBO | APPROVED CGI | DATE 29/09/25

SIZE: A3 | DRAWING NO. 123A90-DDL-PP-DI-71000_027 | SHEET 1/1 | REV. 02

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ERECTION MATERIALS

| PT NO | COMPONENT DESCRIPTION | N.S. | ITEM CODE | Q.TY | WEIGHT |
|---|---|---|---|---|---|
| 1 | Pipe - Plastic ASTM F441 PE 4,55 PLT CPVC | 1 | PIPPPV00160100 | 3559MM | 1.42 |
| 2 | 90 Deg Elbow - Plastic ASTM F439 SOCKET 10 Bar PLT CPVC | 1 | E90PPV00360100 | 1 | 0.09 |
| 3 | Flange - Plastic Flanged as per ASME B16.5 SOCKET 150LB FF PLT CPVC | 1 | FLAPPV00010100 | 2 | 0.42 |
| 4 | Gasket Flat Thk. 3 mm ASME B16.21 150LB FF GSK NITRILE RUBBER | 1 | GFL3GK13690100 | 1 | 0.05 |
| 5 | 65 Stud Bolt + 2 Heavy Nuts & Washers ASME B1.1 ASTM A193 Gr.B7 - A194 Gr.2H Hot dip galvanized | 1/2 | SB2WBO00010200 | 4 | 0.00 |
| | SUPPORTS | | | | |
| 6 | /PS-01035.1 | 1 | | 1 | 2.31 |
| 7 | /PS-01035.2 | 1 | | 1 | 0.69 |

TOTAL ERECTION WEIGHT 4.98

TOTAL WEIGHT 4.98

| REFERENCE DOCUMENTS | |
|---|---|
| 123A90-DDL-PP-RE-70001 | STRESS ANALYSIS REPORT |
| 123A90-DDL-PR-PID-80022 | P&ID |
| 123A90-DDL-MAT-SP-60003 | INSULATION SPECIFICATION |
| 123A90-DDL-MAT-SP-60006 | COATING & PAINTING SPEC. |
| 123A90-DDL-PP-00-72000 | PIPING SUPPORT BOOK |
| 123A90-DDL-PP-SP-70029 | PIPING MATERIAL CLASS |

SYMBOLS LEGEND:
BUTT WELD · THREADED · HEAT TRACING · SOCKET · PIPE SUPPORT · INSULATED

| NDT EXAMINATION | | | |
|---|---|---|---|
| NDT TYPE | % | NDT TYPE | % |
| RT | unset | N.A. | unset |
| INSPECTION CATEGORY | N/A | MT/PT | unset |
| TESTING | | | |
| TEST FLUID | | TEST PRESS. (barg) | |
| Water | | 6.75 | |
| PROCESS LINE DATA | | | |
| DESIGN TEMP. (°C) | | DESIGN PRESS. (barg) | |
| 5 | 50 | | 4.5 |

| INSULATION & PAINTING | | |
|---|---|---|
| INS. TYPE | INS. THK. | INS. SURF. (m²) |
| H | 20mm | 3.90 |
| PAINT SYS. | BASE RAL | PAINT. SURF. (m²) |
| N/A | N/A | |
| HEAT TRACING | | |
| YES | | |
| LINE DATA | | |
| STRESS SYS. | PED CAT. | PWHT |
| - | Art. 4, par. 3 | No |

| Revision Number | Date | Description | Prepared by | Checked by | Approved by |
|---|---|---|---|---|---|
| 02 | 29/09/25 | AS-BUILT (ASB) | SPS | CBO | CGI |
| 01 | 26/07/24 | ACCEPTED FOR CONSTRUCTION | MMA | CBO | DLO |
| 00 | 07/06/24 | ISSUE FOR REVIEW | MMA | CBO | DLO |

ROSETTI MARINO

CROSSWIND

DWG TYTLE:

# 1"-CI-043-01CP-E

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK

SCALE N.A.

DRAWN SPS | CHECKED CBO | APPROVED CGI | DATE 29/09/25

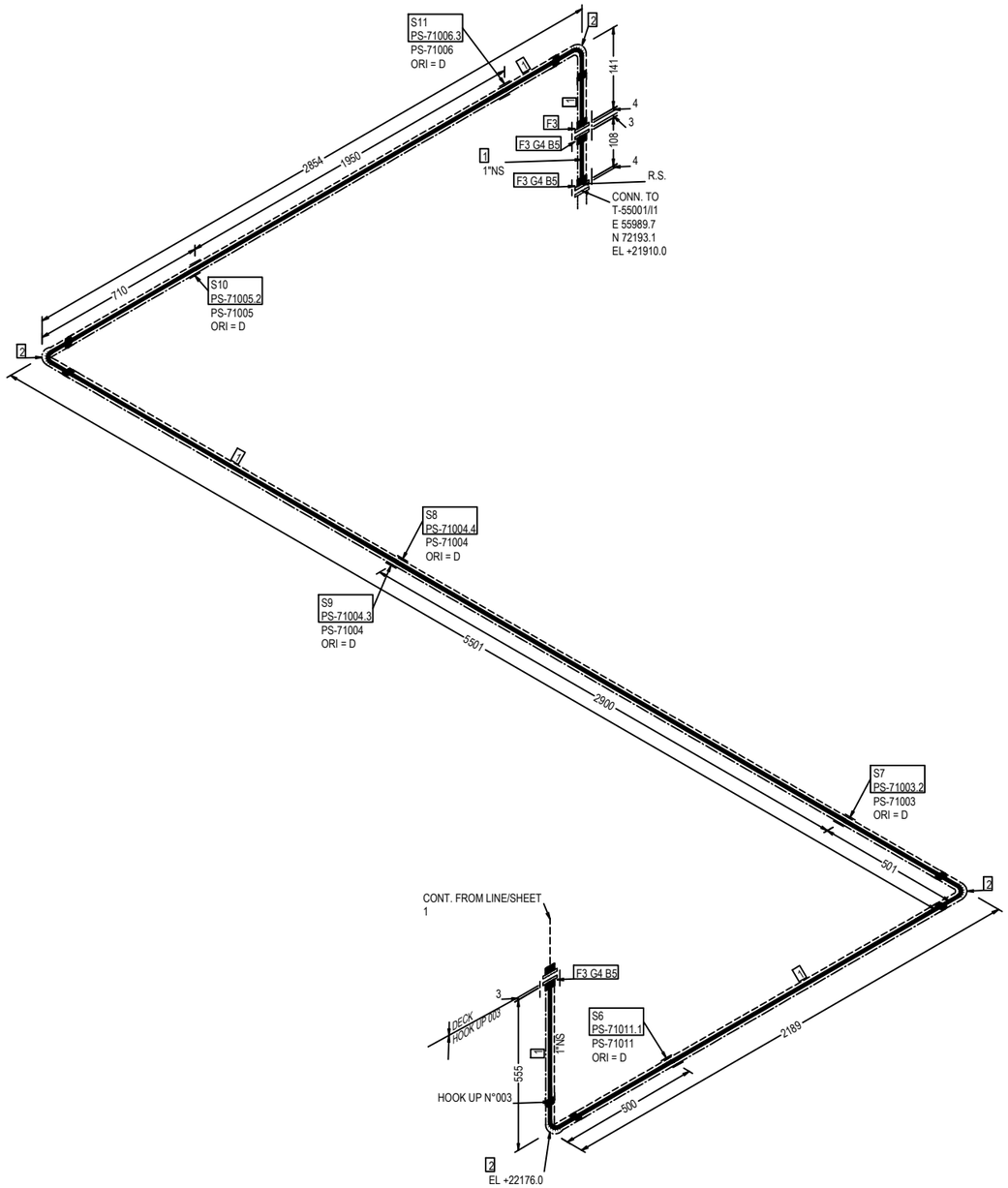
SIZE: A3

DRAWING NO. 123A90-DDL-PP-DI-71000_028

SHEET 1/2

REV. 02

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ERECTION MATERIALS

| PT NO | COMPONENT DESCRIPTION | N.S. | ITEM CODE | Q.TY | WEIGHT |
|---|---|---|---|---|---|
| 1 | Pipe - Plastic ASTM F441 PE 4,55 PLT CPVC | 1 | PIPPPV00160100 | 11212MM | 4.48 |
| 2 | 90 Deg Elbow - Plastic ASTM F439 SOCKET 10 Bar PLT CPVC | 1 | E90PPV00360100 | 4 | 0.36 |
| 3 | Flange - Plastic Flanged as per ASME B16.5 SOCKET 150LB FF PLT CPVC | 1 | FLAPPV00010100 | 4 | 0.84 |
| 4 | Gasket Flat Thk. 3 mm ASME B16.21 150LB FF GSK NITRILE RUBBER | 1 | GFL3GK13690100 | 3 | 0.15 |
| 5 | 65 Stud Bolt + 2 Heavy Nuts & Washers ASME B1.1 ASTM A193 Gr.B7 - A194 Gr.2H Hot dip galvanized | 1/2 | SB2WBO00010200 | 12 | 0.00 |
| | SUPPORTS | | | | |
| 6 | /PS-71011.1 | 1 | | 1 | 2.31 |
| 7 | /PS-71003.2 | 1 | | 1 | 2.31 |
| 8 | /PS-71004.4 | 1 | | 1 | 0.71 |
| 9 | /PS-71004.3 | 1 | | 1 | 2.31 |
| 10 | /PS-71005.2 | 1 | | 1 | 2.31 |
| 11 | /PS-71006.3 | 1 | | 1 | 2.31 |
| | | | | TOTAL ERECTION WEIGHT | 18.09 |
| | | | | TOTAL WEIGHT | 18.09 |

| REFERENCE DOCUMENTS | |
|---|---|
| 123A90-DDL-PP-RE-70001 | STRESS ANALYSIS REPORT |
| 123A90-DDL-PR-PID-80022 | P&ID |
| 123A90-DDL-MAT-SP-60003 | INSULATION SPECIFICATION |
| 123A90-DDL-MAT-SP-60006 | COATING & PAINTING SPEC. |
| 123A90-DDL-PP-00-72000 | PIPING SUPPORT BOOK |
| 123A90-DDL-PP-SP-70029 | PIPING MATERIAL CLASS |

SYMBOLS LEGEND:
BUTT WELD · THREADED · HEAT TRACING · SOCKET · PIPE SUPPORT · INSULATED

| NDT EXAMINATION | | | |
|---|---|---|---|
| NDT TYPE | % | NDT TYPE | % |
| RT | unset | N.A. | unset |
| INSPECTION CATEGORY | N/A | MT/PT | unset |
| TESTING | | | |
| TEST FLUID | | TEST PRESS. (barg) | |
| Water | | 6.75 | |
| PROCESS LINE DATA | | | |
| DESIGN TEMP. (°C) | | DESIGN PRESS. (barg) | |
| 5 | 50 | | 4.5 |

| INSULATION & PAINTING | | |
|---|---|---|
| INS. TYPE | INS. THK. | INS. SURF. (m²) |
| H | 20mm | 3.90 |
| PAINT SYS. | BASE RAL | PAINT. SURF. (m²) |
| N/A | N/A | SEE Sh1 |
| HEAT TRACING | | |
| YES | | |
| LINE DATA | | |
| STRESS SYS. | PED CAT. | PWHT |
| - | Art. 4, par. 3 | No |

| Revision Number | Date | Description | Prepared by | Checked by | Approved by |
|---|---|---|---|---|---|
| 02 | 29/09/25 | AS-BUILT (ASB) | SPS | CBO | CGI |
| 01 | 26/07/24 | ACCEPTED FOR CONSTRUCTION | MMA | CBO | DLO |
| 00 | 07/06/24 | ISSUE FOR REVIEW | MMA | CBO | DLO |

ROSETTI MARINO

# CROSSWIND

DWG TYTLE:

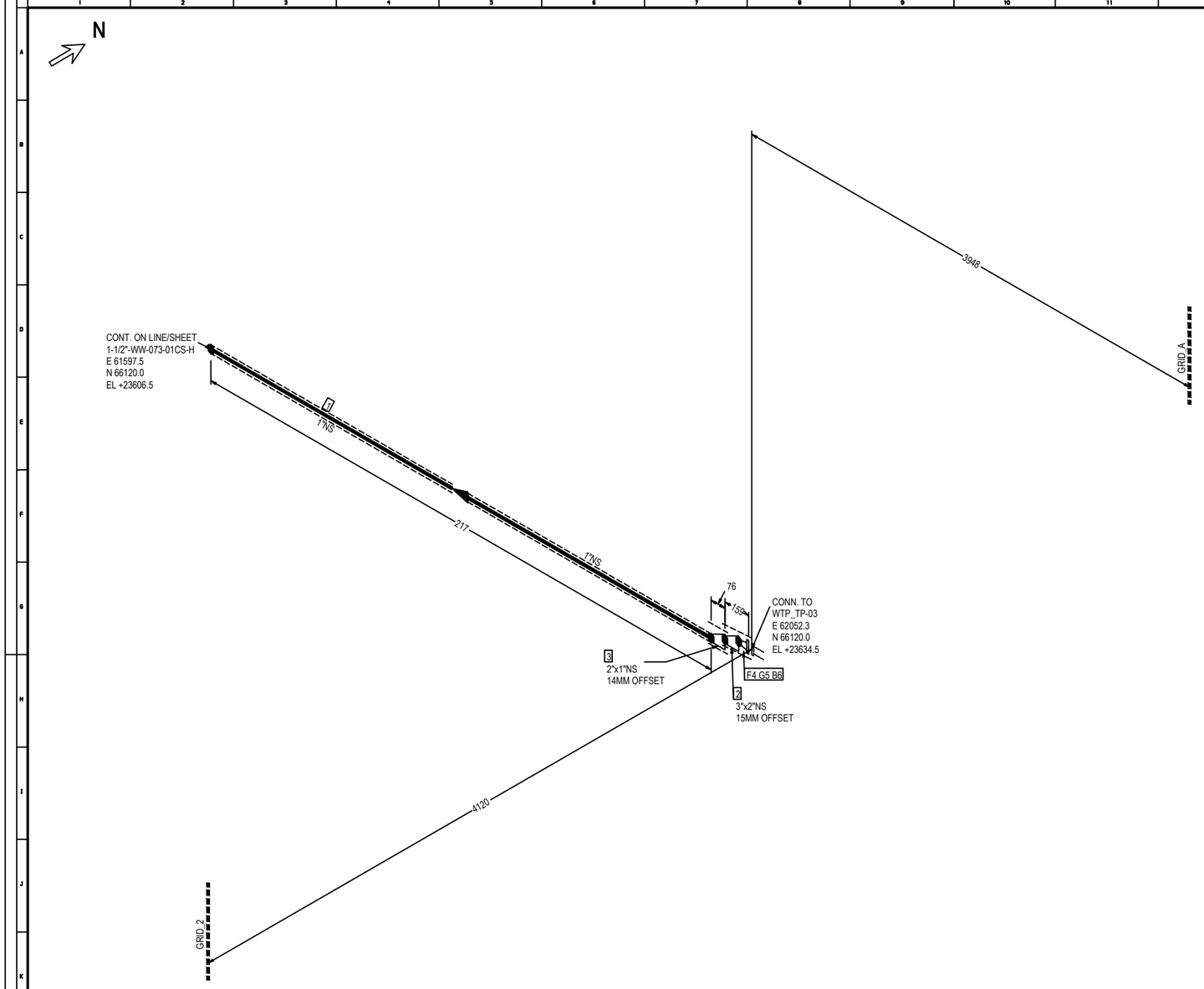
## 1"-CI-043-01CP-E

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK | SCALE N.A.

DRAWN SPS | CHECKED CBO | APPROVED CGI | DATE 29/09/25

SIZE: A3 | DRAWING NO. 123A90-DDL-PP-DI-71000_028 | SHEET 2/2 | REV. 02

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FABRICATION MATERIALS

| PT NO | COMPONENT DESCRIPTION | N.S. | ITEM CODE | Q.TY | WEIGHT |
|---|---|---|---|---|---|
| 1 | Pipe ASME B36.10M PE 4,55 SML ASTM/ASME A/SA333 Gr.6 | 1 | PIPECS08300100 | 217MM | 0.69 |
| 2 | Reducer Eccentric ASME B16.9 BW 5,49x5,54 WRS ASTM/ASME A/SA420 Gr.WPL6 | 3 x 2 | REE0CS13010302 | 1 | 0.99 |
| 3 | Reducer Eccentric ASME B16.9 BW 5,54x4,55 WRS ASTM/ASME A/SA420 Gr.WPL6 | 2 x 1 | REE0CS15650201 | 1 | 0.61 |
| 4 | Flange WN ASME B16.5 150LB RF 5,49 FRG ASTM/ASME A/SA350 Gr.LF2 | 3 | FLW0CS03180300 | 1 | 4.50 |
| | | | TOTAL FABRICATION WEIGHT | | 6.79 |

ERECTION MATERIALS

| PT NO | COMPONENT DESCRIPTION | N.S. | ITEM CODE | Q.TY | WEIGHT |
|---|---|---|---|---|---|
| 5 | Gasket Spiral Wound Thk. 3.2 mm ASME B16.20 150LB RF GSK AISI 316 + GRAPHITE c/w INNER RING | 3 | GSW0GK11140300 | 1 | 0.17 |
| 6 | 90 Stud Bolt + 2 Heavy Nuts ASME B1.1 ASTM A193 Gr.B7 - A194 Gr.2H Hot dip galvanized | 5/8 | SB20BO04190300 | 4 | 1.00 |
| | | | TOTAL ERECTION WEIGHT | | 1.17 |
| | | | TOTAL WEIGHT | | 7.96 |

| REFERENCE DOCUMENTS | |
|---|---|
| 123A90-DDL-PP-RE-70001 | STRESS ANALYSIS REPORT |
| 123A90-DDL-PR-PID-80022 | P&ID |
| 123A90-DDL-MAT-SP-60003 | INSULATION SPECIFICATION |
| 123A90-DDL-MAT-SP-60006 | COATING & PAINTING SPEC. |
| 123A90-DDL-PP-00-72000 | PIPING SUPPORT BOOK |
| 123A90-DDL-PP-SP-70029 | PIPING MATERIAL CLASS |

SYMBOLS LEGEND:
BUTT WELD · THREADED · HEAT TRACING
SOCKET · PIPE SUPPORT · INSULATED

| NDT EXAMINATION | | | |
|---|---|---|---|
| NDT TYPE | % | NDT TYPE | % |
| RT | 10 | VT | 100 |
| INSPECTION CATEGORY | 2 | MT/PT | 10 |
| TESTING | | | |
| TEST FLUID | | TEST PRESS. [barg] | |
| Water | | 5.25 | |
| PROCESS LINE DATA | | | |
| DESIGN TEMP. [°C] | | DESIGN PRESS. [barg] | |
| -46 | 100 | | 3.5 |

| INSULATION & PAINTING | | |
|---|---|---|
| INS. TYPE | INS. THK. | INS. SURF. [m²] |
| H | 20mm | 0.17 |
| PAINT SYS. | BASE RAL | PAINT. SURF. [m²] |
| 9 | N/A | 0.07 |
| HEAT TRACING | | |
| - | | |
| LINE DATA | | |
| STRESS SYS. | PED CAT. | PWHT |
| - | Art. 4, par. 3 | No |

| Revision Number | Date | Description | Prepared by | Checked by | Approved by |
|---|---|---|---|---|---|
| 02 | 29/09/25 | AS-BUILT (ASB) | SPS | CBO | CGI |
| 01 | 26/07/24 | ACCEPTED FOR CONSTRUCTION | MMA | CBO | DLO |
| 00 | 07/06/24 | ISSUE FOR REVIEW | MMA | CBO | DLO |

ROSETTI MARINO

# CROSSWIND

DWG TYTLE:

## 1"-SWR-045-01CS-H

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK

SCALE N.A.

DRAWN SPS | CHECKED CBO | APPROVED CGI | DATE 29/09/25

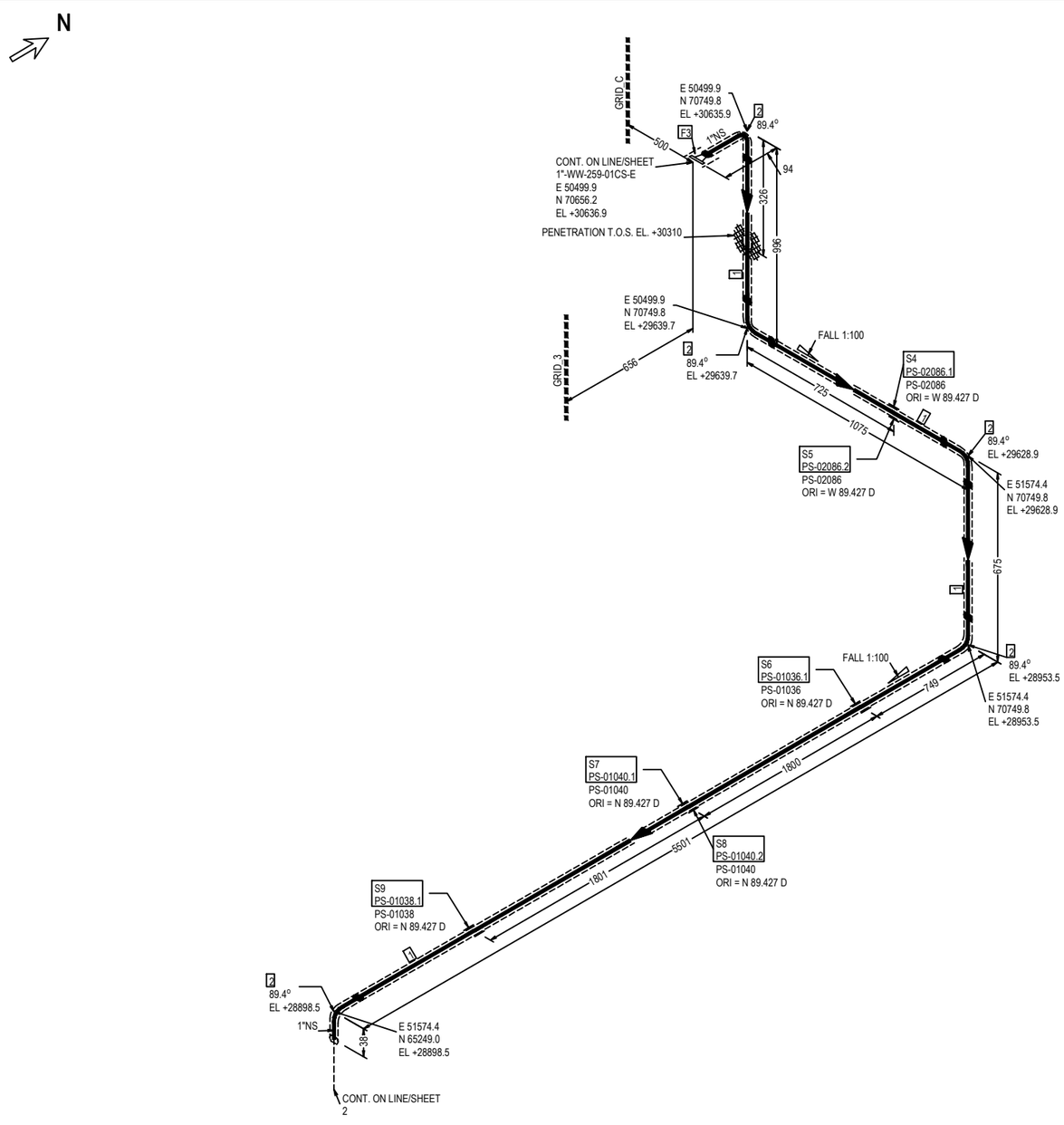
SIZE: A3

DRAWING NO. 123A90-DDL-PP-DI-71000_029

SHEET 1/1

REV. 02

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FABRICATION MATERIALS

| PT NO | COMPONENT DESCRIPTION | N.S. | ITEM CODE | Q.TY | WEIGHT |
|---|---|---|---|---|---|
| 1 | Pipe ASME B36.10M PE 4,55 SML ASTM/ASME A/SA333 Gr.6 | 1 | PIPECS08300100 | 7946MM | 25.43 |
| 2 | 90 Deg Elbow Long Radius ASME B16.9 BW 4,55 WRS ASTM/ASME A/SA420 Gr.WPL6 | 1 | E90RCS01780100 | 5 | 0.90 |
| 3 | Flange WN ASME B16.5 150LB RF 4,55 FRG ASTM/ASME A/SA350 Gr.LF2 | 1 | FLW0CS16540100 | 1 | 1.40 |
| | | | TOTAL FABRICATION WEIGHT | | 27.73 |

ERECTION MATERIALS

| PT NO | COMPONENT DESCRIPTION | N.S. | ITEM CODE | Q.TY | WEIGHT |
|---|---|---|---|---|---|
| | SUPPORTS | | | | |
| 4 | /PS-02086.1 | 1 | | 1 | 2.37 |
| 5 | /PS-02086.2 | 1 | | 1 | 1.46 |
| 6 | /PS-01036.1 | 1 | | 1 | 2.35 |
| 7 | /PS-01040.1 | 1 | | 1 | 1.96 |
| 8 | /PS-01040.2 | 1 | | 1 | 2.34 |
| 9 | /PS-01038.1 | 1 | | 1 | 2.19 |
| | | | TOTAL ERECTION WEIGHT | | 12.67 |
| | | | TOTAL WEIGHT | | 40.40 |

| REFERENCE DOCUMENTS | |
|---|---|
| 123A90-DDL-PP-RE-70001 | STRESS ANALYSIS REPORT |
| 123A90-DDL-PR-PID-80029 | P&ID |
| 123A90-DDL-MAT-SP-60003 | INSULATION SPECIFICATION |
| 123A90-DDL-MAT-SP-60006 | COATING & PAINTING SPEC. |
| 123A90-DDL-PP-00-72000 | PIPING SUPPORT BOOK |
| 123A90-DDL-PP-SP-70029 | PIPING MATERIAL CLASS |

SYMBOLS LEGEND:
BUTT WELD · THREADED · HEAT TRACING · SOCKET · PIPE SUPPORT · INSULATED

| NDT EXAMINATION | | | | INSULATION & PAINTING | | |
|---|---|---|---|---|---|---|
| NDT TYPE | % | NDT TYPE | % | INS. TYPE | INS. THK. | INS. SURF. (m²) |
| RT | 10 | VT | 100 | H | 20mm | 7.97 |
| INSPECTION CATEGORY | 2 | MT/PT | 10 | PAINT SYS. | BASE RAL | PAINT. SURF. (m²) |
| TESTING | | | | 9 | N/A | 3.16 |
| TEST FLUID | | TEST PRESS.(barg) | | HEAT TRACING | | |
| Water | | 5.25 | | - | | |
| PROCESS LINE DATA | | | | LINE DATA | | |
| DESIGN TEMP. (°C) | | DESIGN PRESS.(barg) | | STRESS SYS. | PED CAT. | PWHT |
| -46 | 100 | | 3.5 | - | Art. 4, par. 3 | No |

| Revision Number | Date | Description | Prepared by | Checked by | Approved by |
|---|---|---|---|---|---|
| 02 | 29/09/25 | AS-BUILT (ASB) | SPS | CBO | CGI |
| 01 | 26/07/24 | ACCEPTED FOR CONSTRUCTION | MMA | CBO | DLO |
| 00 | 07/06/24 | ISSUE FOR REVIEW | MMA | CBO | DLO |

ROSETTI MARINO

# CROSSWIND

DWG TYTLE:

## 1"-WW-071-01CS-H

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK

SCALE N.A.

DRAWN SPS | CHECKED CBO | APPROVED CGI | DATE 29/09/25

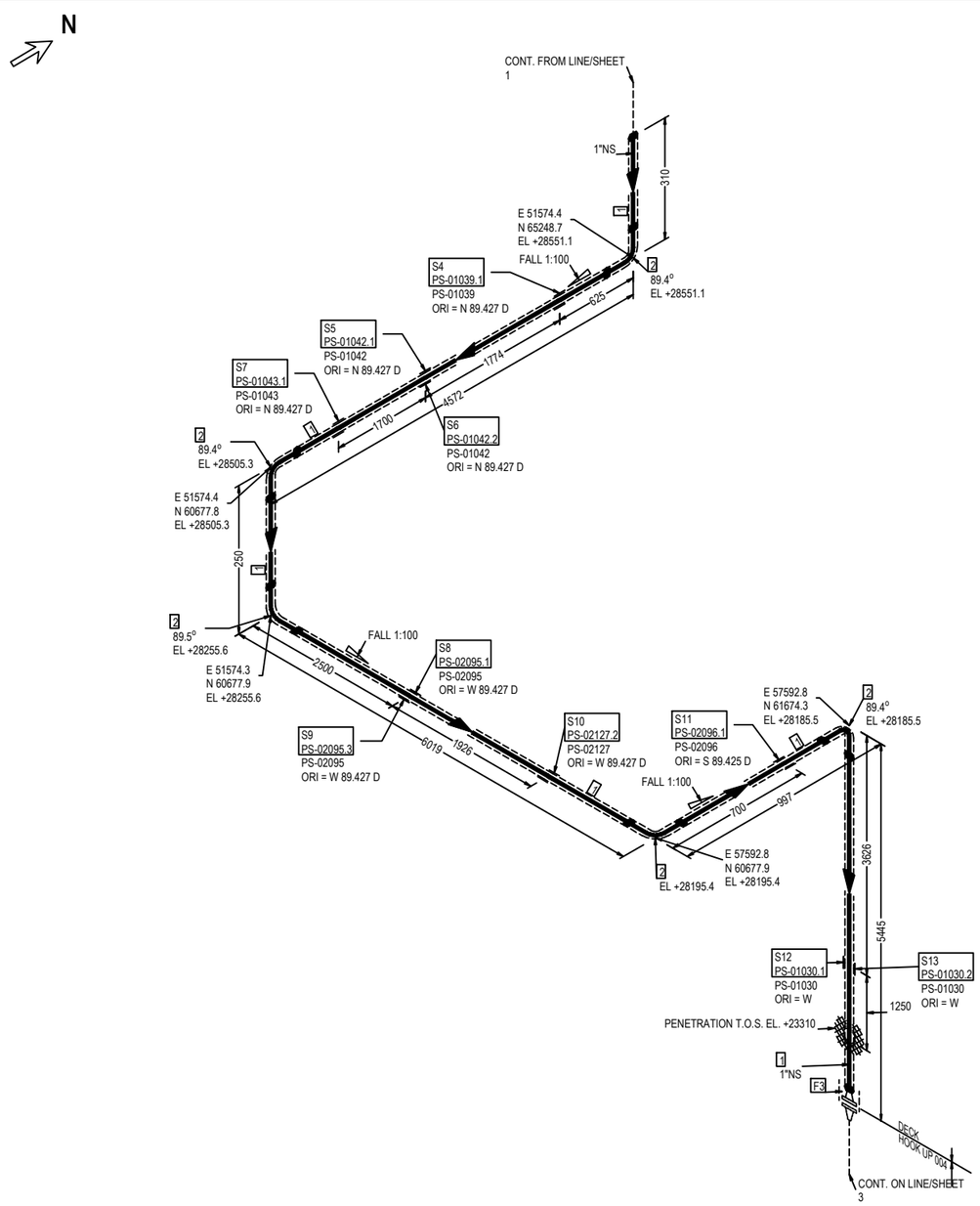
SIZE: A3

DRAWING NO. 123A90-DDL-PP-DI-71000_030

SHEET 1/3

REV. 02

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FABRICATION MATERIALS

| PT NO | COMPONENT DESCRIPTION | N.S. | ITEM CODE | Q.TY | WEIGHT |
|---|---|---|---|---|---|
| 1 | Pipe ASME B36.10M PE 4,55 SML ASTM/ASME A/SA333 Gr.6 | 1 | PIPECS08300100 | 17158MM | 54.91 |
| 2 | 90 Deg Elbow Long Radius ASME B16.9 BW 4,55 WRS ASTM/ASME A/SA420 Gr.WPL6 | 1 | E90RCS01780100 | 5 | 0.90 |
| 3 | Flange WN ASME B16.5 150LB RF 4,55 FRG ASTM/ASME A/SA350 Gr.LF2 | 1 | FLW0CS16540100 | 1 | 1.40 |
| | | | TOTAL FABRICATION WEIGHT | | 57.21 |

ERECTION MATERIALS

| PT NO | COMPONENT DESCRIPTION | N.S. | ITEM CODE | Q.TY | WEIGHT |
|---|---|---|---|---|---|
| | SUPPORTS | | | | |
| 4 | /PS-01039.1 | 1 | | 1 | 2.35 |
| 5 | /PS-01042.1 | 1 | | 1 | 2.32 |
| 6 | /PS-01042.2 | 1 | | 1 | 1.96 |
| 7 | /PS-01043.1 | 1 | | 1 | 2.20 |
| 8 | /PS-02095.1 | 1 | | 1 | 2.35 |
| 9 | /PS-02095.3 | 1 | | 1 | 0.71 |
| 10 | /PS-02127.2 | 1 | | 1 | 2.35 |
| 11 | /PS-02096.1 | 1 | | 1 | 2.35 |
| 12 | /PS-01030.1 | 1 | | 1 | 2.31 |
| 13 | /PS-01030.2 | 1 | | 1 | 0.71 |
| | | | TOTAL ERECTION WEIGHT | | 19.61 |
| | | | TOTAL WEIGHT | | 76.82 |

| REFERENCE DOCUMENTS | |
|---|---|
| 123A90-DDL-PP-RE-70001 | STRESS ANALYSIS REPORT |
| 123A90-DDL-PR-PID-80029 | P&ID |
| 123A90-DDL-MAT-SP-60003 | INSULATION SPECIFICATION |
| 123A90-DDL-MAT-SP-60006 | COATING & PAINTING SPEC. |
| 123A90-DDL-PP-00-72000 | PIPING SUPPORT BOOK |
| 123A90-DDL-PP-SP-70029 | PIPING MATERIAL CLASS |

SYMBOLS LEGEND:
BUTT WELD, THREADED, HEAT TRACING, SOCKET, PIPE SUPPORT, INSULATED

| NDT EXAMINATION | | | |
|---|---|---|---|
| NDT TYPE | % | NDT TYPE | % |
| RT | 10 | VT | 100 |
| INSPECTION CATEGORY | 2 | MT/PT | 10 |
| TESTING | | | |
| TEST FLUID | | TEST PRESS. [barg] | |
| Water | | 5.25 | |
| PROCESS LINE DATA | | | |
| DESIGN TEMP. [°C] | | DESIGN PRESS. [barg] | |
| -46 | 100 | | 3.5 |

| INSULATION & PAINTING | | |
|---|---|---|
| INS. TYPE | INS. THK. | INS. SURF. [m²] |
| H | 20mm | SEE Sh1 |
| PAINT SYS. | BASE RAL | PAINT. SURF. [m²] |
| 9 | N/A | SEE Sh1 |
| HEAT TRACING | | |
| - | | |
| LINE DATA | | |
| STRESS SYS. | PED CAT. | PWHT |
| - | Art. 4, par. 3 | No |

| Revision Number | Date | Description | Prepared by | Checked by | Approved by |
|---|---|---|---|---|---|
| 02 | 29/09/25 | AS-BUILT (ASB) | SPS | CBO | CGI |
| 01 | 26/07/24 | ACCEPTED FOR CONSTRUCTION | MMA | CBO | DLO |
| 00 | 07/06/24 | ISSUE FOR REVIEW | MMA | CBO | DLO |

ROSETTI MARINO

# CROSSWIND

DWG TYTLE:

## 1"-WW-071-01CS-H

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK

SCALE N.A.

DRAWN SPS | CHECKED CBO | APPROVED CGI | DATE 29/09/25

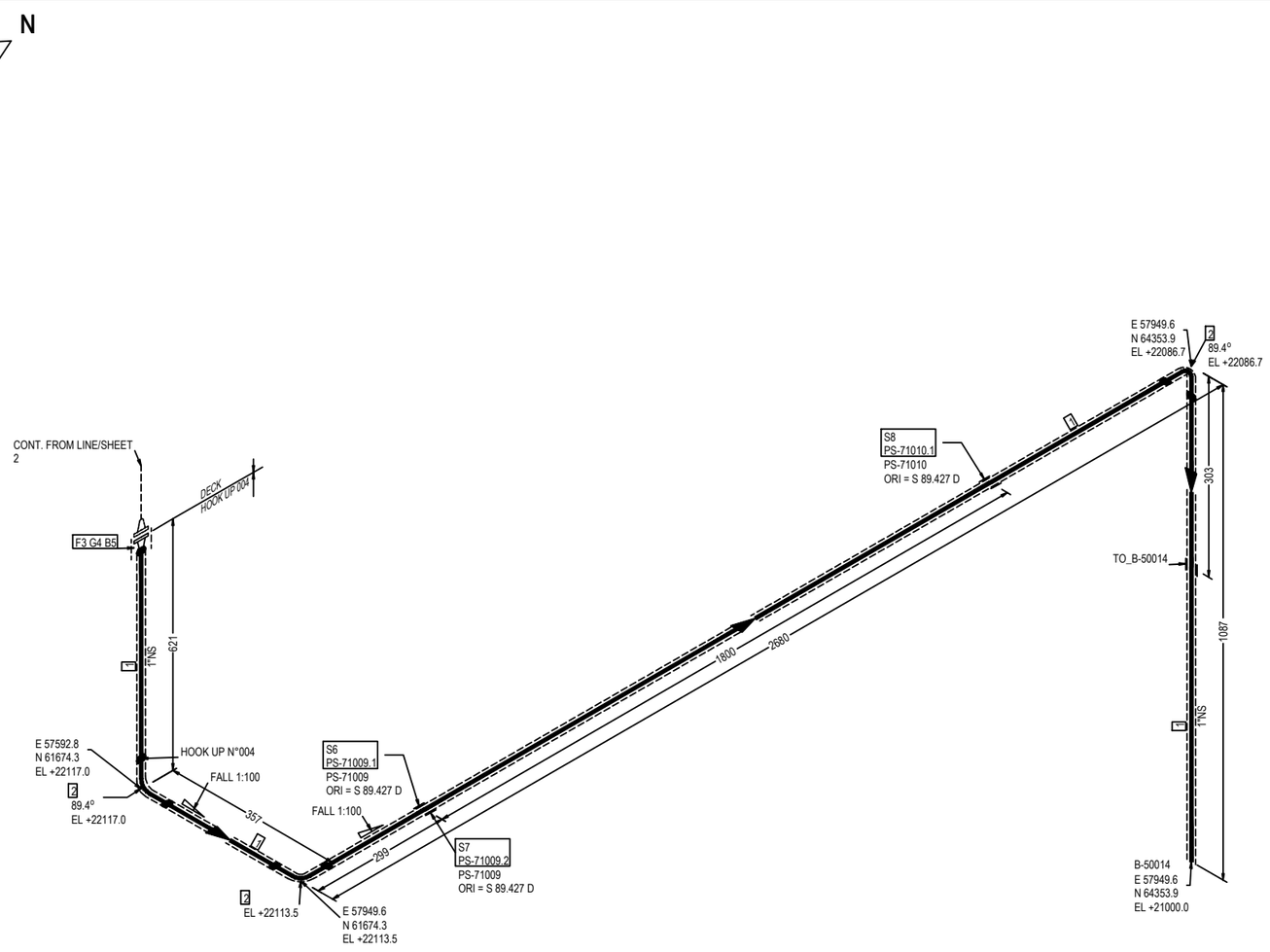
SIZE: A3

DRAWING NO. 123A90-DDL-PP-DI-71000_030

SHEET 2/3

REV. 02

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FABRICATION MATERIALS

| PT NO | COMPONENT DESCRIPTION | N.S. | ITEM CODE | Q.TY | WEIGHT |
|---|---|---|---|---|---|
| 1 | Pipe ASME B36.10M PE 4,55 SML ASTM/ASME A/SA333 Gr.6 | 1 | PIPECS08300100 | 4461MM | 14.28 |
| 2 | 90 Deg Elbow Long Radius ASME B16.9 BW 4,55 WRS ASTM/ASME A/SA420 Gr.WPL6 | 1 | E90RCS01780100 | 3 | 0.54 |
| 3 | Flange WN ASME B16.5 150LB RF 4,55 FRG ASTM/ASME A/SA350 Gr.LF2 | 1 | FLW0CS16540100 | 1 | 1.40 |
| | | | TOTAL FABRICATION WEIGHT | | 16.22 |

ERECTION MATERIALS

| PT NO | COMPONENT DESCRIPTION | N.S. | ITEM CODE | Q.TY | WEIGHT |
|---|---|---|---|---|---|
| 4 | Gasket Spiral Wound Thk. 3.2 mm ASME B16.20 150LB RF GSK AISI 316 + GRAPHITE c/w INNER RING | 1 | GSW0GK11100100 | 1 | 0.06 |
| 5 | 65 Stud Bolt + 2 Heavy Nuts ASME B1.1 ASTM A193 Gr.B7 - A194 Gr.2H Hot dip galvanized | 1/2 | SB20BO01080200 | 4 | 0.48 |
| | SUPPORTS | | | | |
| 6 | /PS-71009.1 | 1 | | 1 | 2.35 |
| 7 | /PS-71009.2 | 1 | | 1 | 0.71 |
| 8 | /PS-71010.1 | 1 | | 1 | 2.35 |
| | | | TOTAL ERECTION WEIGHT | | 5.95 |
| | | | TOTAL WEIGHT | | 22.17 |

| REFERENCE DOCUMENTS | |
|---|---|
| 123A90-DDL-PP-RE-70001 | STRESS ANALYSIS REPORT |
| 123A90-DDL-PR-PID-80029 | P&ID |
| 123A90-DDL-MAT-SP-60003 | INSULATION SPECIFICATION |
| 123A90-DDL-MAT-SP-60006 | COATING & PAINTING SPEC. |
| 123A90-DDL-PP-00-72000 | PIPING SUPPORT BOOK |
| 123A90-DDL-PP-SP-70029 | PIPING MATERIAL CLASS |

SYMBOLS LEGEND:
BUTT WELD · THREADED · HEAT TRACING · SOCKET · PIPE SUPPORT · INSULATED

| NDT EXAMINATION | | | | INSULATION & PAINTING | | |
|---|---|---|---|---|---|---|
| NDT TYPE | % | NDT TYPE | % | INS. TYPE | INS. THK. | INS. SURF. (m²) |
| RT | 10 | VT | 100 | H | 20mm | SEE Sh1 |
| INSPECTION CATEGORY | 2 | MT/PT | 10 | PAINT SYS. | BASE RAL | PAINT. SURF. (m²) |
| TESTING | | | | 9 | N/A | SEE Sh1 |
| TEST FLUID | | TEST PRESS. (barg) | | HEAT TRACING | | |
| Water | | 5.25 | | - | | |
| PROCESS LINE DATA | | | | LINE DATA | | |
| DESIGN TEMP. (°C) | | DESIGN PRESS. (barg) | | STRESS SYS. | PED CAT. | PWHT |
| -46 | 100 | | 3.5 | - | Art. 4, par. 3 | No |

| Revision Number | Date | Description | Prepared by | Checked by | Approved by |
|---|---|---|---|---|---|
| 02 | 29/09/25 | AS-BUILT (ASB) | SPS | CBO | CGI |
| 01 | 26/07/24 | ACCEPTED FOR CONSTRUCTION | MMA | CBO | DLO |
| 00 | 07/06/24 | ISSUE FOR REVIEW | MMA | CBO | DLO |

ROSETTI MARINO

# CROSSWIND

DWG TYTLE:

## 1"-WW-071-01CS-H

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK

SCALE N.A.

DRAWN SPS | CHECKED CBO | APPROVED CGI | DATE 29/09/25

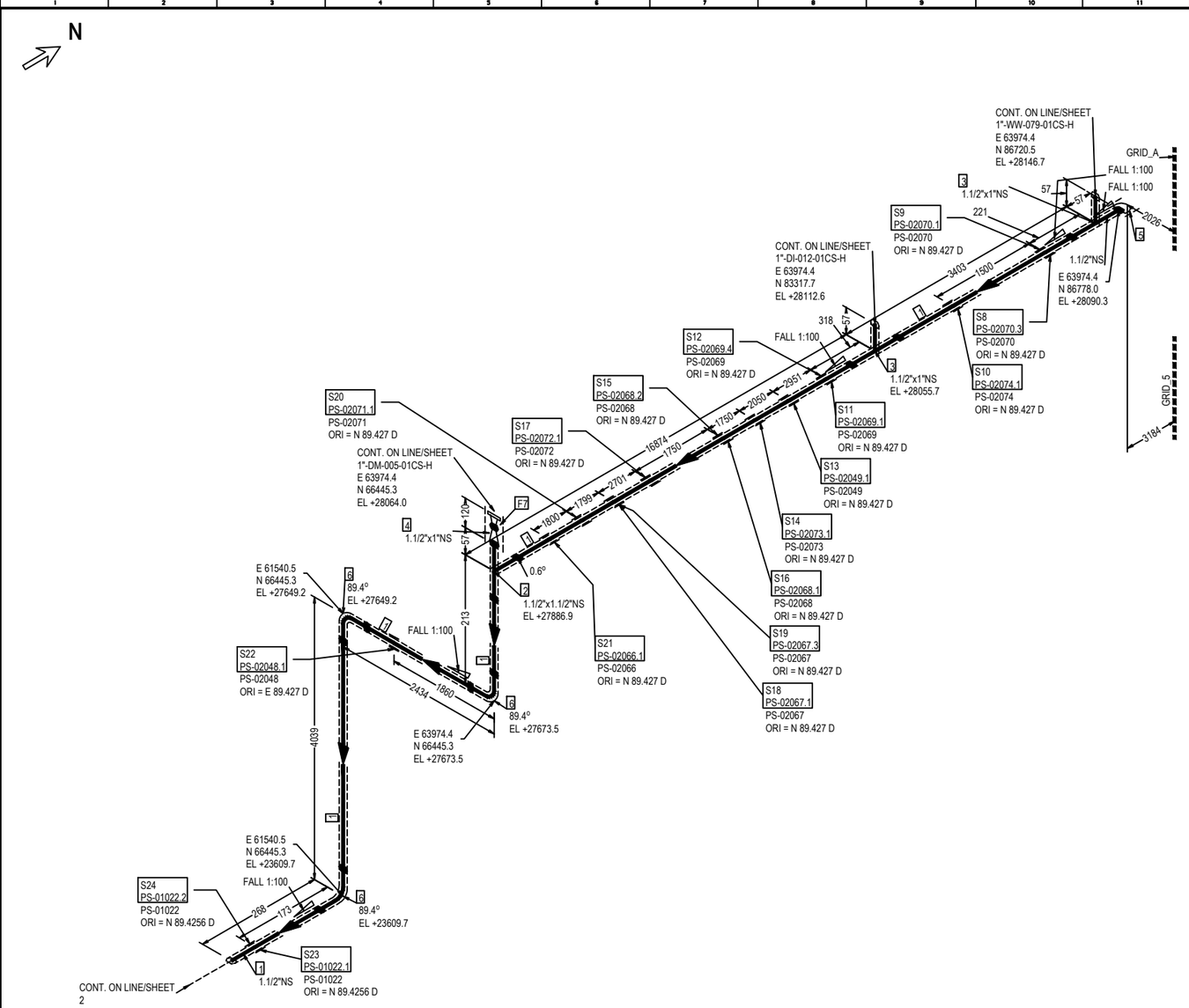
SIZE: A3

DRAWING NO. 123A90-DDL-PP-DI-71000_030

SHEET 3/3

REV. 02

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FABRICATION MATERIALS

| PT NO | COMPONENT DESCRIPTION | N.S. | ITEM CODE | Q.TY | WEIGHT |
|---|---|---|---|---|---|
| 1 | Pipe ASME B36.10M PE 5,08 SML ASTM/ASME A/SA333 Gr.6 | 1.1/2 | PIPECS02951H00 | 26610MM | 143.69 |
| 2 | Tee ASME B16.9 BW 5,08 WRS ASTM/ASME A/SA420 Gr.WPL6 | 1.1/2 x 1.1/2 | TEE0CS05251H00 | 1 | 1.12 |
| 3 | Tee Reducing ASME B16.9 BW 5,08x4,55 WRS ASTM/ASME A/SA420 Gr.WPL6 | 1.1/2 x 1 | TER0CS26141H01 | 2 | 2.04 |
| 4 | Reducer Concentric ASME B16.9 BW 5,08x4,55 WRS ASTM/ASME A/SA420 Gr.WPL6 | 1.1/2 x 1 | REC0CS220091H01 | 1 | 0.36 |
| 5 | Cap ASME B16.9 BW 5,08 WRS ASTM/ASME A/SA420 Gr.WPL6 | 1.1/2 | CAP0CS05071H00 | 1 | 0.25 |
| 6 | 90 Deg Elbow Long Radius ASME B16.9 BW 5,08 WRS ASTM/ASME A/SA420 Gr.WPL6 | 1.1/2 | E90RCS04991H00 | 3 | 1.53 |
| 7 | Flange WN ASME B16.5 150LB RF 4,55 FRG ASTM/ASME A/SA350 Gr.LF2 | 1 | FLW0CS16540100 | 1 | 1.40 |
| | | | TOTAL FABRICATION WEIGHT | | 150.39 |

ERECTION MATERIALS

| PT NO | COMPONENT DESCRIPTION | N.S. | ITEM CODE | Q.TY | WEIGHT |
|---|---|---|---|---|---|
| | SUPPORTS | | | | |
| 8 | /PS-02070.3 | 1.1/2 | | 1 | 1.53 |
| 9 | /PS-02070.1 | 1.1/2 | | 1 | 2.53 |
| 10 | /PS-02074.1 | 1.1/2 | | 1 | 2.53 |
| 11 | /PS-02069.1 | 1.1/2 | | 1 | 2.53 |
| 12 | /PS-02069.4 | 1.1/2 | | 1 | 1.53 |
| 13 | /PS-02049.1 | 1.1/2 | | 1 | 2.53 |
| 14 | /PS-02073.1 | 1.1/2 | | 1 | 2.53 |
| 15 | /PS-02068.2 | 1.1/2 | | 1 | 1.53 |
| 16 | /PS-02068.1 | 1.1/2 | | 1 | 2.53 |
| 17 | /PS-02072.1 | 1.1/2 | | 1 | 2.53 |
| 18 | /PS-02067.1 | 1.1/2 | | 1 | 2.53 |
| 19 | /PS-02067.3 | 1.1/2 | | 1 | 1.53 |
| 20 | /PS-02071.1 | 1.1/2 | | 1 | 2.53 |
| 21 | /PS-02066.1 | 1.1/2 | | 1 | 2.53 |
| 22 | /PS-02048.1 | 1.1/2 | | 1 | 2.52 |
| 23 | /PS-01022.1 | 1.1/2 | | 1 | 2.53 |
| 24 | /PS-01022.2 | 1.1/2 | | 1 | 0.71 |
| | | | TOTAL ERECTION WEIGHT | | 37.18 |
| | | | TOTAL WEIGHT | | 187.57 |

| REFERENCE DOCUMENTS | |
|---|---|
| 123A90-DDL-PP-RE-70001 | STRESS ANALYSIS REPORT |
| 123A90-DDL-PR-PID-80025 | P&ID |
| 123A90-DDL-MAT-SP-60003 | INSULATION SPECIFICATION |
| 123A90-DDL-MAT-SP-60006 | COATING & PAINTING SPEC. |
| 123A90-DDL-PP-00-72000 | PIPING SUPPORT BOOK |
| 123A90-DDL-PP-SP-70029 | PIPING MATERIAL CLASS |

SYMBOLS LEGEND:
BUTT WELD · THREADED · HEAT TRACING · SOCKET · PIPE SUPPORT · INSULATED

| NDT EXAMINATION | | | |
|---|---|---|---|
| NDT TYPE | % | NDT TYPE | % |
| RT | 10 | VT | 100 |
| INSPECTION CATEGORY | 2 | MT/PT | 10 |
| TESTING | | | |
| TEST FLUID | | TEST PRESS. [barg] | |
| Water | | 5.25 | |
| PROCESS LINE DATA | | | |
| DESIGN TEMP. [°C] | | DESIGN PRESS. [barg] | |
| -46 | 100 | | 3.5 |

| INSULATION & PAINTING | | |
|---|---|---|
| INS. TYPE | INS. THK. | INS. SURF. [m²] |
| H | 20mm | 13.63 |
| PAINT SYS. | BASE RAL | PAINT. SURF. [m²] |
| 9 | N/A | 5.41 |
| HEAT TRACING | | |
| - | | |
| LINE DATA | | |
| STRESS SYS. | PED CAT. | PWHT |
| - | Art. 4, par. 3 | No |

| Revision Number | Date | Description | Prepared by | Checked by | Approved by |
|---|---|---|---|---|---|
| 02 | 29/09/25 | AS-BUILT (ASB) | SPS | CBO | CGI |
| 01 | 26/07/24 | ACCEPTED FOR CONSTRUCTION | MMA | CBO | DLO |
| 00 | 07/06/24 | ISSUE FOR REVIEW | MMA | CBO | DLO |

ROSETTI MARINO

# CROSSWIND

DWG TYTLE:

## 1-1/2"-WW-073-01CS-H

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK

SCALE N.A.

DRAWN SPS | CHECKED CBO | APPROVED CGI | DATE 29/09/25

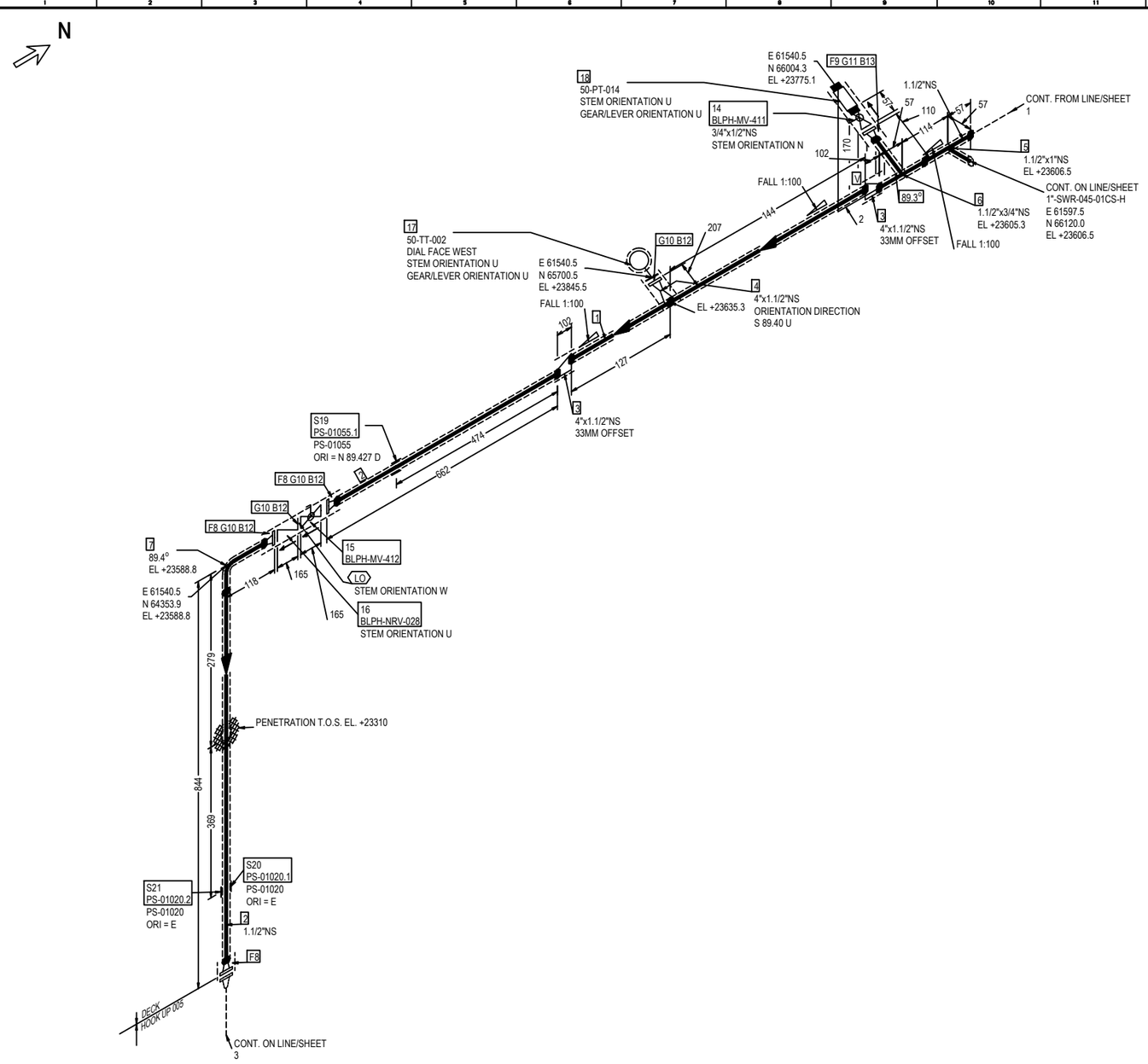
SIZE: A3

DRAWING NO. 123A90-DDL-PP-DI-71000_031

SHEET 1/3

REV. 02

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FABRICATION MATERIALS

| PT NO | COMPONENT DESCRIPTION | N.S. | ITEM CODE | Q.TY | WEIGHT |
|---|---|---|---|---|---|
| 1 | Pipe ASME B36.10M PE 6,02 SML ASTM/ASME A/SA333 Gr.6 | 4 | PIPECS03750400 | 271MM | 4.36 |
| 2 | Pipe ASME B36.10M PE 5,08 SML ASTM/ASME A/SA333 Gr.6 | 1.1/2 | PIPECS02951H00 | 1326MM | 7.16 |
| 3 | Reducer Eccentric ASME B16.9 BW 6,02x5,08 WRS ASTM/ASME A/SA420 Gr.WPL6 | 4 x 1.1/2 | REE0CS1728041H | 2 | 3.26 |
| 4 | NipoFlange Reinforced Manuf.s STD 150LB RF 6,02x5,08 FRG ASTM/ASME A/SA350 Gr.LF2 | 4 x 1.1/2 | ONFRCS0296041H | 1 | 3.30 |
| 5 | Tee Reducing ASME B16.9 BW 5,08x4,55 WRS ASTM/ASME A/SA420 Gr.WPL6 | 1.1/2 x 1 | TER0CS26141H01 | 1 | 1.02 |
| 6 | Tee Reducing ASME B16.9 BW 5,08x3,91 WRS ASTM/ASME A/SA420 Gr.WPL6 | 1.1/2 x 3/4 | TER0CS04991H3Q | 1 | 1.02 |
| 7 | 90 Deg Elbow Long Radius ASME B16.9 BW 5,08 WRS ASTM/ASME A/SA420 Gr.WPL6 | 1.1/2 | E90RCS04991H00 | 1 | 0.51 |
| 8 | Flange WN ASME B16.5 150LB RF 5,08 FRG ASTM/ASME A/SA350 Gr.LF2 | 1.1/2 | FLW0CS16561H00 | 3 | 5.40 |
| 9 | Flange WN ASME B16.5 150LB RF 3,91 FRG ASTM/ASME A/SA350 Gr.LF2 | 3/4 | FLW0CS16523Q00 | 1 | 0.90 |
| | | | TOTAL FABRICATION WEIGHT | | 26.93 |

ERECTION MATERIALS

| PT NO | COMPONENT DESCRIPTION | N.S. | ITEM CODE | Q.TY | WEIGHT |
|---|---|---|---|---|---|
| 10 | Gasket Spiral Wound Thk. 3.2 mm ASME B16.20 150LB RF GSK AISI 316 + GRAPHITE c/w INNER RING | 1.1/2 | GSW0GK11121H00 | 4 | 0.28 |
| 11 | Gasket Spiral Wound Thk. 3.2 mm ASME B16.20 150LB RF GSK AISI 316 + GRAPHITE c/w INNER RING | 3/4 | GSW0GK11093Q00 | 1 | 0.05 |
| 12 | 70 Stud Bolt + 2 Heavy Nuts ASME B1.1 ASTM A193 Gr.B7 - A194 Gr.2H Hot dip galvanized | 1/2 | SB20BO00930200 | 16 | 1.92 |
| 13 | 65 Stud Bolt + 2 Heavy Nuts ASME B1.1 ASTM A193 Gr.B7 - A194 Gr.2H Hot dip galvanized | 1/2 | SB20BO01080200 | 4 | 0.48 |
| 14 | Monoflange Block & Bleed Valve API 6D FLG x THRD-F NPT 150LB RF MS01B02Y | 3/4 x 1/2 | VLBNNN00063Q0H | 1 | 5.00 |
| 15 | Ball Valve Split Body FB API 6D FLG 150LB RF BS01B01RF | 1.1/2 | VBC0NN24721H00 | 1 | 14.50 |
| 16 | Check Valve Piston EN ISO 15761 FLG 150LB RF CH01B02RF | 1.1/2 | VDRNNN02591H00 | 1 | 0.00 |
| | INSTRUMENTS | | | | |
| 17 | Temperature Trasmitter 150# 50-TT-002 | 1.1/2 | | 1 | --- |
| 18 | Pressure Transmitter - Online 50-PT-014 | 1/2 | | 1 | --- |
| | SUPPORTS | | | | |
| 19 | /PS-01055.1 | 1.1/2 | | 1 | 2.53 |
| 20 | /PS-01020.1 | 1.1/2 | | 1 | 2.50 |
| 21 | /PS-01020.2 | 1.1/2 | | 1 | 0.71 |
| | | | TOTAL ERECTION WEIGHT | | 27.97 |
| | | | TOTAL WEIGHT | | 54.90 |

| REFERENCE DOCUMENTS | | NDT EXAMINATION | | | | INSULATION & PAINTING | | | Revision Number | Date | Description | Prepared by | Checked by | Approved by |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 123A90-DDL-PP-RE-70001 | STRESS ANALYSIS REPORT | NDT TYPE | % | NDT TYPE | % | INS. TYPE | INS. THK. | INS. SURF. (m²) | | | | | | |
| 123A90-DDL-PR-PID-80025 | P&ID | RT | 10 | VT | 100 | H | 20mm | SEE Sh1 | | | | | | |
| 123A90-DDL-MAT-SP-60003 | INSULATION SPECIFICATION | INSPECTION CATEGORY | 2 | MT/PT | 10 | PAINT SYS. | BASE RAL | PAINT. SURF. (m²) | | | | | | |
| 123A90-DDL-MAT-SP-60006 | COATING & PAINTING SPEC. | TESTING | | | | 9 | N/A | SEE Sh1 | | | | | | |
| 123A90-DDL-PP-00-72000 | PIPING SUPPORT BOOK | TEST FLUID | | TEST PRESS. (barg) | | HEAT TRACING | | | | | | | | |
| 123A90-DDL-PP-SP-70029 | PIPING MATERIAL CLASS | Water | | 5.25 | | - | | | 02 | 29/09/25 | AS-BUILT (ASB) | SPS | CBO | CGI |
| SYMBOLS LEGEND: | | PROCESS LINE DATA | | | | LINE DATA | | | 01 | 26/07/24 | ACCEPTED FOR CONSTRUCTION | MMA | CBO | DLO |
| —●— BUTT WELD —■— THREADED ≡≡ HEAT TRACING | | DESIGN TEMP. (°C) | | DESIGN PRESS. (barg) | | STRESS SYS. | PED CAT. | PWHT | 00 | 07/06/24 | ISSUE FOR REVIEW | MMA | CBO | DLO |
| —E— SOCKET —=— PIPE SUPPORT ≡≡ INSULATED | | -46 | 100 | | 3.5 | - | Art. 4, par. 3 | No | | | | | | |

ROSETTI MARINO

# CROSSWIND

DWG TYTLE:

## 1-1/2"-WW-073-01CS-H

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK

SCALE N.A.

DRAWN SPS | CHECKED CBO | APPROVED CGI | DATE 29/09/25

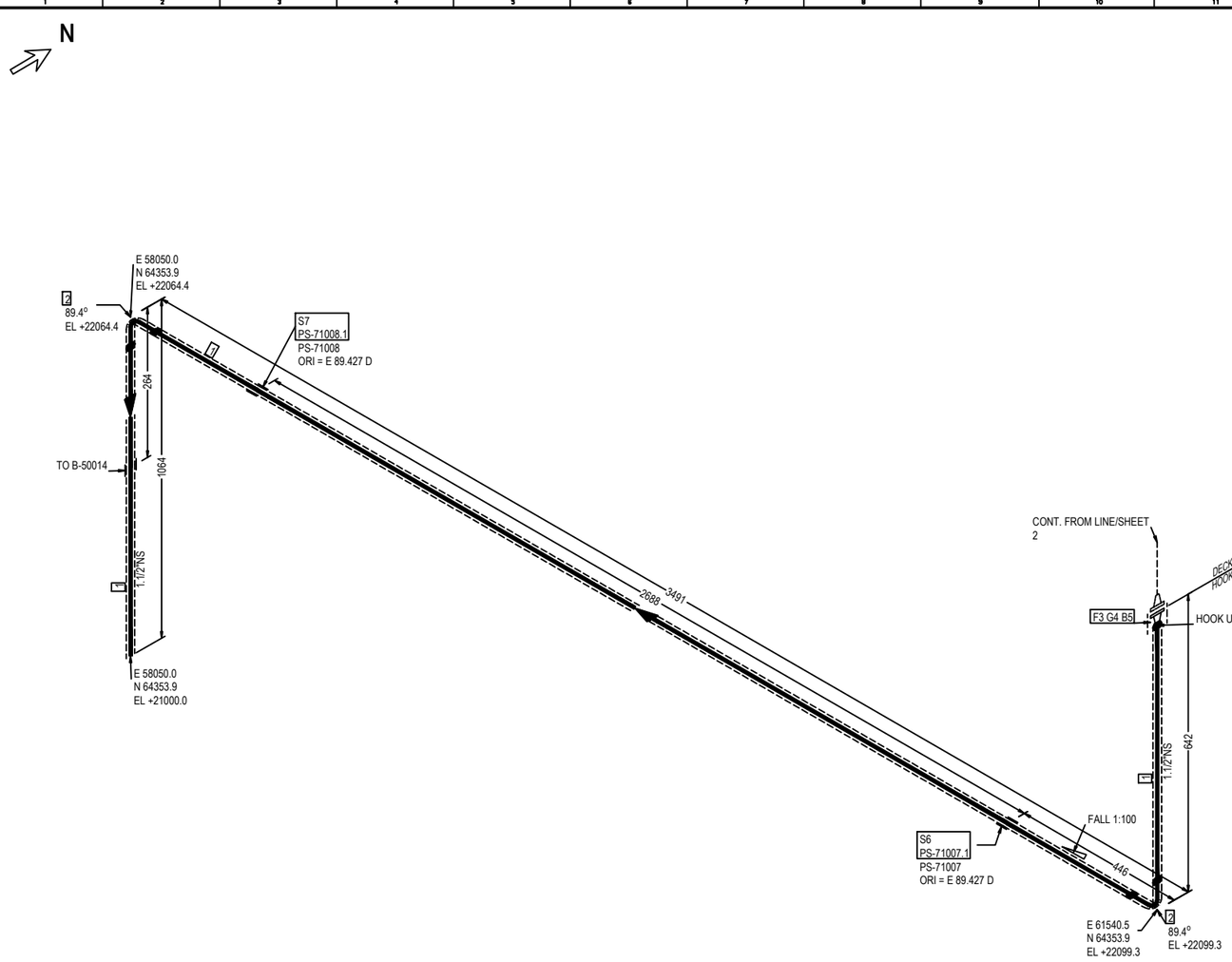
SIZE: A3

DRAWING NO. 123A90-DDL-PP-DI-71000_031

SHEET 2/3

REV. 02

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FABRICATION MATERIALS

| PT NO | COMPONENT DESCRIPTION | N.S. | ITEM CODE | Q.TY | WEIGHT |
|---|---|---|---|---|---|
| 1 | Pipe ASME B36.10M PE 5,08 SML ASTM/ASME A/SA333 Gr.6 | 1.1/2 | PIPECS02951H00 | 4910MM | 26.51 |
| 2 | 90 Deg Elbow Long Radius ASME B16.9 BW 5,08 WRS ASTM/ASME A/SA420 Gr.WPL6 | 1.1/2 | E90RCS04991H00 | 2 | 1.02 |
| 3 | Flange WN ASME B16.5 150LB RF 5,08 FRG ASTM/ASME A/SA350 Gr.LF2 | 1.1/2 | FLW0CS16561H00 | 1 | 1.80 |
| | | | TOTAL FABRICATION WEIGHT | | 29.33 |

ERECTION MATERIALS

| PT NO | COMPONENT DESCRIPTION | N.S. | ITEM CODE | Q.TY | WEIGHT |
|---|---|---|---|---|---|
| 4 | Gasket Spiral Wound Thk. 3.2 mm ASME B16.20 150LB RF GSK AISI 316 + GRAPHITE c/w INNER RING | 1.1/2 | GSW0GK11121H00 | 1 | 0.07 |
| 5 | 70 Stud Bolt + 2 Heavy Nuts ASME B1.1 ASTM A193 Gr.B7 - A194 Gr.2H Hot dip galvanized | 1/2 | SB20BO00930200 | 4 | 0.48 |
| | SUPPORTS | | | | |
| 6 | /PS-71007.1 | 1.1/2 | | 1 | 2.47 |
| 7 | /PS-71008.1 | 1.1/2 | | 1 | 2.44 |
| | | | TOTAL ERECTION WEIGHT | | 5.46 |
| | | | TOTAL WEIGHT | | 34.79 |

| REFERENCE DOCUMENTS | |
|---|---|
| 123A90-DDL-PP-RE-70001 | STRESS ANALYSIS REPORT |
| 123A90-DDL-PR-PID-80025 | P&ID |
| 123A90-DDL-MAT-SP-60003 | INSULATION SPECIFICATION |
| 123A90-DDL-MAT-SP-60006 | COATING & PAINTING SPEC. |
| 123A90-DDL-PP-00-72000 | PIPING SUPPORT BOOK |
| 123A90-DDL-PP-SP-70029 | PIPING MATERIAL CLASS |

SYMBOLS LEGEND:
BUTT WELD — THREADED — HEAT TRACING
SOCKET — PIPE SUPPORT — INSULATED

| NDT EXAMINATION | | | | INSULATION & PAINTING | | |
|---|---|---|---|---|---|---|
| NDT TYPE | % | NDT TYPE | % | INS. TYPE | INS. THK. | INS. SURF. (m²) |
| RT | 10 | VT | 100 | H | 20mm | SEE Sh1 |
| INSPECTION CATEGORY | 2 | MT/PT | 10 | PAINT SYS. | BASE RAL | PAINT. SURF. (m²) |
| TESTING | | | | 9 | N/A | SEE Sh1 |
| TEST FLUID | | TEST PRESS.(barg) | | HEAT TRACING | | |
| Water | | 5.25 | | - | | |
| PROCESS LINE DATA | | | | LINE DATA | | |
| DESIGN TEMP. (°C) | | DESIGN PRESS.(barg) | | STRESS SYS. | PED CAT. | PWHT |
| -46 | 100 | | 3.5 | - | Art. 4, par. 3 | No |

| Revision Number | Date | Description | Prepared by | Checked by | Approved by |
|---|---|---|---|---|---|
| 02 | 29/09/25 | AS-BUILT (ASB) | SPS | CBO | CGI |
| 01 | 26/07/24 | ACCEPTED FOR CONSTRUCTION | MMA | CBO | DLO |
| 00 | 07/06/24 | ISSUE FOR REVIEW | MMA | CBO | DLO |

ROSETTI MARINO

# CROSSWIND

DWG TYTLE:

## 1-1/2"-WW-073-01CS-H

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK

SCALE N.A.

DRAWN SPS | CHECKED CBO | APPROVED CGI | DATE 29/09/25

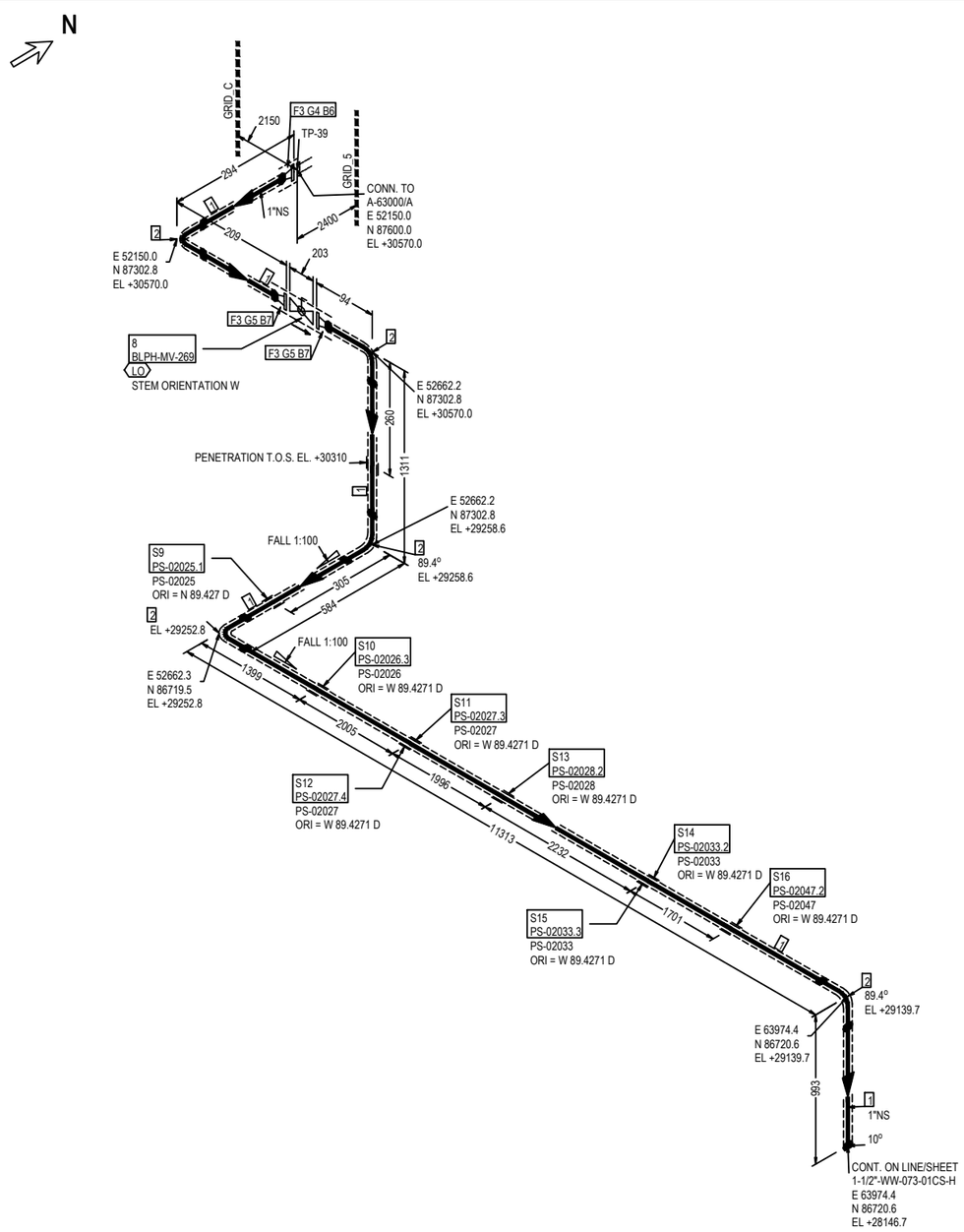
SIZE: A3

DRAWING NO. 123A90-DDL-PP-DI-71000_031

SHEET 3/3

REV. 02

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FABRICATION MATERIALS

| PT NO | COMPONENT DESCRIPTION | N.S. | ITEM CODE | Q.TY | WEIGHT |
|---|---|---|---|---|---|
| 1 | Pipe ASME B36.10M PE 4,55 SML ASTM/ASME A/SA333 Gr.6 | 1 | PIPECS08300100 | 14251MM | 45.60 |
| 2 | 90 Deg Elbow Long Radius ASME B16.9 BW 4,55 WRS ASTM/ASME A/SA420 Gr.WPL6 | 1 | E90RCS01780100 | 5 | 0.90 |
| 3 | Flange WN ASME B16.5 150LB RF 4,55 FRG ASTM/ASME A/SA350 Gr.LF2 | 1 | FLW0CS16540100 | 3 | 4.20 |
| | | | TOTAL FABRICATION WEIGHT | | 50.70 |

ERECTION MATERIALS

| PT NO | COMPONENT DESCRIPTION | N.S. | ITEM CODE | Q.TY | WEIGHT |
|---|---|---|---|---|---|
| 4 | Insulation Kit Ends as per ASME B16.5 150LB RF | 1 | SPIKNN01220100 | 1 | 0.06 |
| 5 | Gasket Spiral Wound Thk. 3.2 mm ASME B16.20 150LB RF GSK AISI 316 + GRAPHITE c/w INNER RING | 1 | GSW0GK11100100 | 2 | 0.12 |
| 6 | 80 Stud Bolt + 2 Heavy Nuts ASME B1.1 ASTM A193 Gr.B7 - A194 Gr.2H Hot dip galvanized | 1/2 | SB20BO00980200 | 4 | 0.52 |
| 7 | 65 Stud Bolt + 2 Heavy Nuts ASME B1.1 ASTM A193 Gr.B7 - A194 Gr.2H Hot dip galvanized | 1/2 | SB20BO01080200 | 8 | 0.96 |
| 8 | Block & Bleed Valve API 6D FLG 150LB RF BS01B01RFS | 1 | VLBLNN01280100 | 1 | 12.50 |
| | SUPPORTS | | | | |
| 9 | /PS-02025.1 | 1 | | 1 | 2.35 |
| 10 | /PS-02026.3 | 1 | | 1 | 2.35 |
| 11 | /PS-02027.3 | 1 | | 1 | 2.35 |
| 12 | /PS-02027.4 | 1 | | 1 | 1.46 |
| 13 | /PS-02028.2 | 1 | | 1 | 2.35 |
| 14 | /PS-02033.2 | 1 | | 1 | 2.35 |
| 15 | /PS-02033.3 | 1 | | 1 | 1.46 |
| 16 | /PS-02047.2 | 1 | | 1 | 2.35 |
| | | | TOTAL ERECTION WEIGHT | | 31.18 |
| | | | TOTAL WEIGHT | | 81.88 |

| REFERENCE DOCUMENTS | |
|---|---|
| 123A90-DDL-PP-RE-70001 | STRESS ANALYSIS REPORT |
| 123A90-DDL-PR-PID-80027 | P&ID |
| 123A90-DDL-MAT-SP-60003 | INSULATION SPECIFICATION |
| 123A90-DDL-MAT-SP-60006 | COATING & PAINTING SPEC. |
| 123A90-DDL-PP-00-72000 | PIPING SUPPORT BOOK |
| 123A90-DDL-PP-SP-70029 | PIPING MATERIAL CLASS |

SYMBOLS LEGEND:
BUTT WELD — THREADED — HEAT TRACING
SOCKET — PIPE SUPPORT — INSULATED

| NDT EXAMINATION | | | |
|---|---|---|---|
| NDT TYPE | % | NDT TYPE | % |
| RT | 10 | VT | 100 |
| INSPECTION CATEGORY | 2 | MT/PT | 10 |

| TESTING | |
|---|---|
| TEST FLUID | TEST PRESS.(barg) |
| Water | 5.25 |

| PROCESS LINE DATA | | | |
|---|---|---|---|
| DESIGN TEMP. (°C) | | DESIGN PRESS.(barg) | |
| -46 | 100 | | 3.5 |

| INSULATION & PAINTING | | |
|---|---|---|
| INS. TYPE | INS. THK. | INS. SURF. (m²) |
| H | 20mm | 3.90 |
| PAINT SYS. | BASE RAL | PAINT. SURF. (m²) |
| 9 | N/A | 1.55 |

| HEAT TRACING |
|---|
| - |

| LINE DATA | | |
|---|---|---|
| STRESS SYS. | PED CAT. | PWHT |
| - | Art. 4, par. 3 | No |

| Revision Number | Date | Description | Prepared by | Checked by | Approved by |
|---|---|---|---|---|---|
| 02 | 29/09/25 | AS-BUILT (ASB) | SPS | CBO | CGI |
| 01 | 26/07/24 | ACCEPTED FOR CONSTRUCTION | MMA | CBO | DLO |
| 00 | 07/06/24 | ISSUE FOR REVIEW | MMA | CBO | DLO |

ROSETTI MARINO

# CROSSWIND

DWG TYTLE:

## 1"-WW-079-01CS-H

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK

SCALE N.A.

DRAWN SPS | CHECKED CBO | APPROVED CGI | DATE 29/09/25

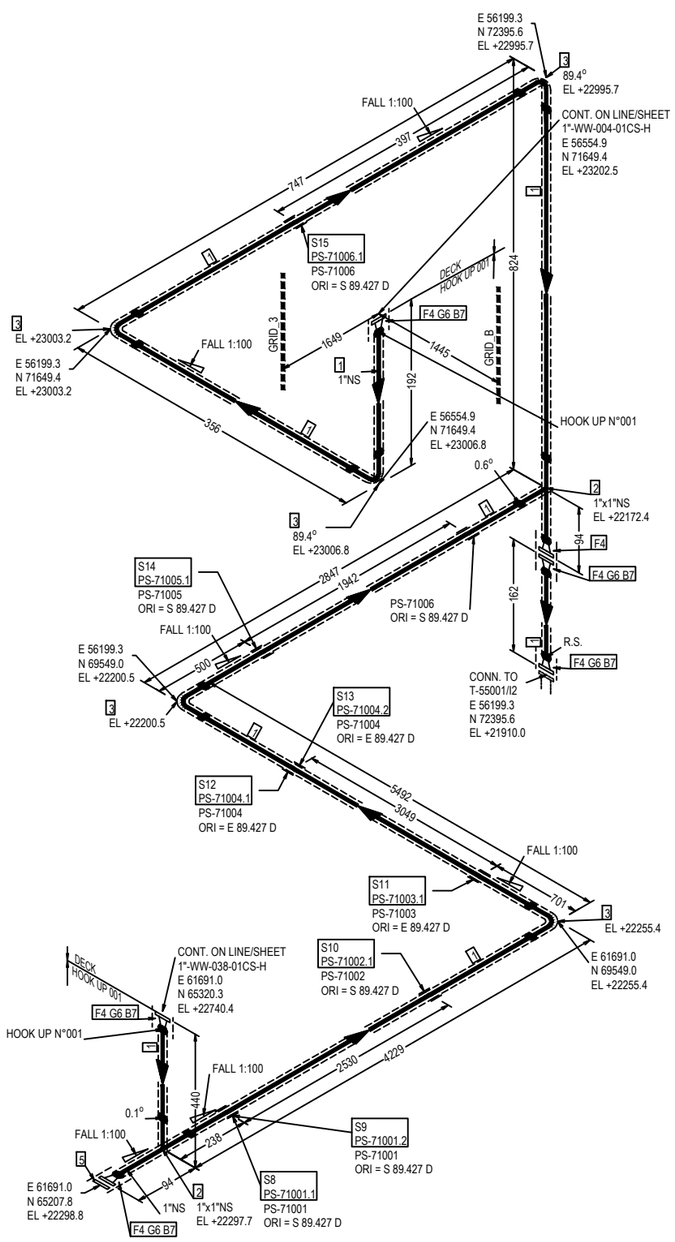
SIZE: A3

DRAWING NO. 123A90-DDL-PP-DI-71000_032

SHEET 1/1

REV. 02

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FABRICATION MATERIALS

| PT NO | COMPONENT DESCRIPTION | N.S. | ITEM CODE | Q.TY | WEIGHT |
|---|---|---|---|---|---|
| 1 | Pipe ASME B36.10M PE 4,55 SML ASTM/ASME A/SA333 Gr.6 | 1 | PIPECS08300100 | 14534MM | 46.51 |
| 2 | Tee ASME B16.9 BW 4,55 WRS ASTM/ASME A/SA420 Gr.WPL6 | 1 x 1 | TEE0CS01110100 | 2 | 0.92 |
| 3 | 90 Deg Elbow Long Radius ASME B16.9 BW 4,55 WRS ASTM/ASME A/SA420 Gr.WPL6 | 1 | E90RCS01780100 | 5 | 0.90 |
| 4 | Flange WN ASME B16.5 150LB RF 4,55 FRG ASTM/ASME A/SA350 Gr.LF2 | 1 | FLW0CS16540100 | 6 | 8.40 |
| | | | TOTAL FABRICATION WEIGHT | | 56.73 |

ERECTION MATERIALS

| PT NO | COMPONENT DESCRIPTION | N.S. | ITEM CODE | Q.TY | WEIGHT |
|---|---|---|---|---|---|
| 5 | Flange Blind ASME B16.5 150LB RF FRG ASTM/ASME A/SA350 Gr.LF2 | 1 | FLB0CS07340100 | 1 | 1.40 |
| 6 | Gasket Spiral Wound Thk. 3.2 mm ASME B16.20 150LB RF GSK AISI 316 + GRAPHITE c/w INNER RING | 1 | GSW0GK11100100 | 5 | 0.30 |
| 7 | 65 Stud Bolt + 2 Heavy Nuts ASME B1.1 ASTM A193 Gr.B7 - A194 Gr.2H Hot dip galvanized | 1/2 | SB20BO01080200 | 20 | 2.40 |
| | SUPPORTS | | | | |
| 8 | /PS-71001.1 | 1 | | 1 | 2.35 |
| 9 | /PS-71001.2 | 1 | | 1 | 1.46 |
| 10 | /PS-71002.1 | 1 | | 1 | 2.35 |
| 11 | /PS-71003.1 | 1 | | 1 | 2.35 |
| 12 | /PS-71004.1 | 1 | | 1 | 2.35 |
| 13 | /PS-71004.2 | 1 | | 1 | 0.71 |
| 14 | /PS-71005.1 | 1 | | 1 | 2.35 |
| 15 | /PS-71006.1 | 1 | | 1 | 2.35 |
| | | | TOTAL ERECTION WEIGHT | | 20.37 |
| | | | TOTAL WEIGHT | | 77.10 |

| REFERENCE DOCUMENTS | |
|---|---|
| 123A90-DDL-PP-RE-70001 | STRESS ANALYSIS REPORT |
| 123A90-DDL-PR-PID-80026 | P&ID |
| 123A90-DDL-MAT-SP-60003 | INSULATION SPECIFICATION |
| 123A90-DDL-MAT-SP-60006 | COATING & PAINTING SPEC. |
| 123A90-DDL-PP-00-72000 | PIPING SUPPORT BOOK |
| 123A90-DDL-PP-SP-70029 | PIPING MATERIAL CLASS |

SYMBOLS LEGEND:
BUTT WELD · THREADED · HEAT TRACING · SOCKET · PIPE SUPPORT · INSULATED

| NDT EXAMINATION | | | |
|---|---|---|---|
| NDT TYPE | % | NDT TYPE | % |
| RT | 10 | VT | 100 |
| INSPECTION CATEGORY | 2 | MT/PT | 10 |
| TESTING | | | |
| TEST FLUID | | TEST PRESS. (barg) | |
| Water | | 5.25 | |
| PROCESS LINE DATA | | | |
| DESIGN TEMP. (°C) | | DESIGN PRESS. (barg) | |
| -46 | 100 | | 3.5 |

| INSULATION & PAINTING | | |
|---|---|---|
| INS. TYPE | INS. THK. | INS. SURF. (m²) |
| H | 20mm | 4.01 |
| PAINT SYS. | BASE RAL | PAINT. SURF. (m²) |
| 9 | N/A | 1.59 |
| HEAT TRACING | | |
| - | | |
| LINE DATA | | |
| STRESS SYS. | PED CAT. | PWHT |
| - | Art. 4, par. 3 | No |

| Revision Number | Date | Description | Prepared by | Checked by | Approved by |
|---|---|---|---|---|---|
| 02 | 29/09/25 | AS-BUILT (ASB) | SPS | CBO | CGI |
| 01 | 26/07/24 | ACCEPTED FOR CONSTRUCTION | MMA | CBO | DLO |
| 00 | 07/06/24 | ISSUE FOR REVIEW | MMA | CBO | DLO |

ROSETTI MARINO

# CROSSWIND

DWG TYTLE:

## 1"-WW-081-01CS-H

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK

SCALE N.A.

DRAWN SPS | CHECKED CBO | APPROVED CGI | DATE 29/09/25

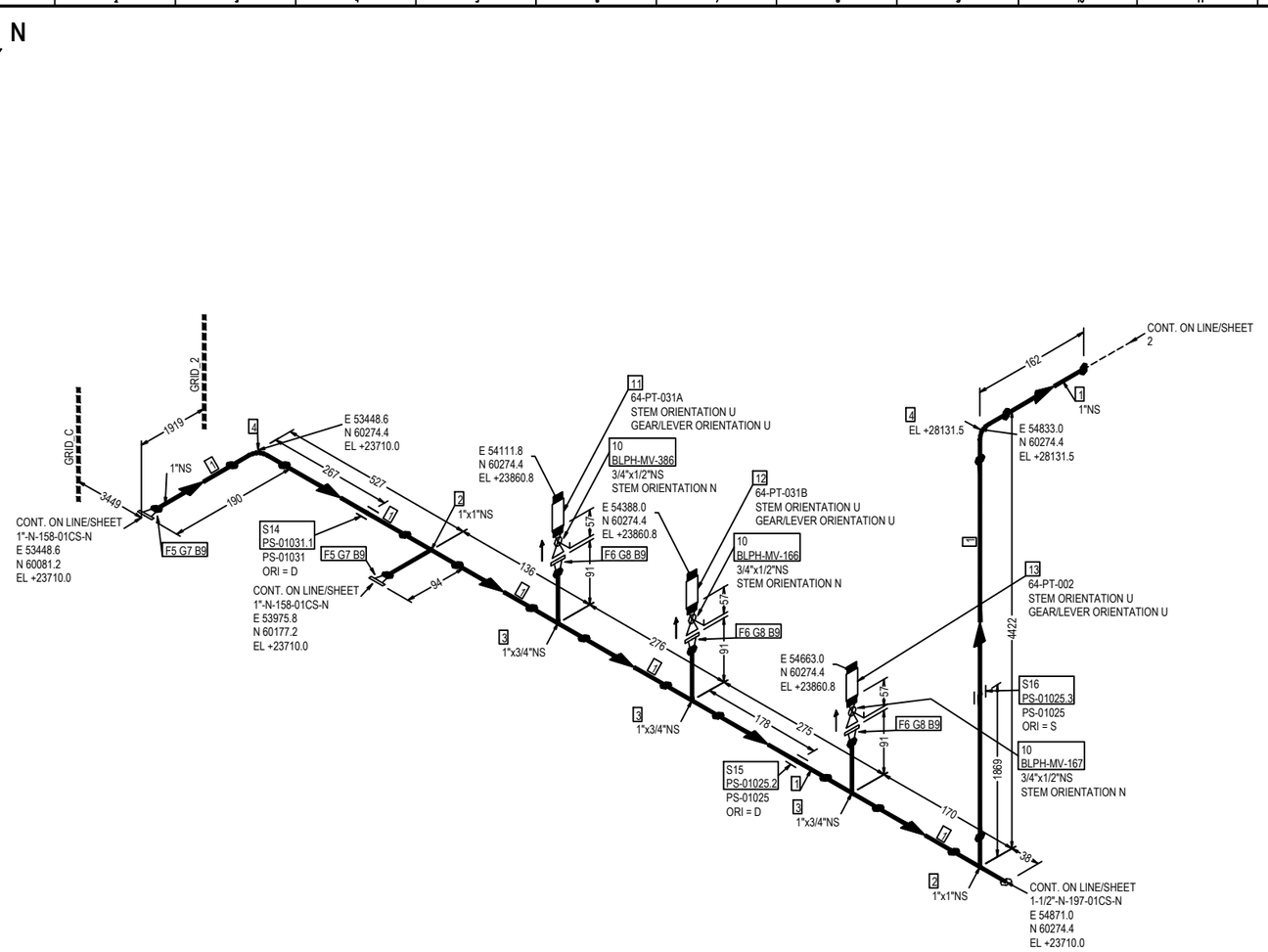
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DRAWING NO. 123A90-DDL-PP-DI-71000_033

SHEET 1/1

REV. 02

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FABRICATION MATERIALS

| PT NO | COMPONENT DESCRIPTION | N.S. | ITEM CODE | Q.TY | WEIGHT |
|---|---|---|---|---|---|
| 1 | Pipe ASME B36.10M PE 4,55 SML ASTM/ASME A/SA333 Gr.6 | 1 | PIPECS08300100 | 5570MM | 17.82 |
| 2 | Tee ASME B16.9 BW 4,55 WRS ASTM/ASME A/SA420 Gr.WPL6 | 1 x 1 | TEE0CS01110100 | 2 | 0.92 |
| 3 | Tee Reducing ASME B16.9 BW 4,55x3,91 WRS ASTM/ASME A/SA420 Gr.WPL6 | 1 x 3/4 | TER0CS2607013Q | 3 | 1.38 |
| 4 | 90 Deg Elbow Long Radius ASME B16.9 BW 4,55 WRS ASTM/ASME A/SA420 Gr.WPL6 | 1 | E90RCS01780100 | 2 | 0.36 |
| 5 | Flange WN ASME B16.5 150LB RF 4,55 FRG ASTM/ASME A/SA350 Gr.LF2 | 1 | FLW0CS16540100 | 2 | 2.80 |
| 6 | Flange WN ASME B16.5 150LB RF 3,91 FRG ASTM/ASME A/SA350 Gr.LF2 | 3/4 | FLW0CS16523Q00 | 3 | 2.70 |
| | | | TOTAL FABRICATION WEIGHT | | 25.98 |

ERECTION MATERIALS

| PT NO | COMPONENT DESCRIPTION | N.S. | ITEM CODE | Q.TY | WEIGHT |
|---|---|---|---|---|---|
| 7 | Gasket Spiral Wound Thk. 3.2 mm ASME B16.20 150LB RF GSK AISI 316 + GRAPHITE c/w INNER RING | 1 | GSW0GK11100100 | 2 | 0.12 |
| 8 | Gasket Spiral Wound Thk. 3.2 mm ASME B16.20 150LB RF GSK AISI 316 + GRAPHITE c/w INNER RING | 3/4 | GSW0GK11093Q00 | 3 | 0.15 |
| 9 | 65 Stud Bolt + 2 Heavy Nuts ASME B1.1 ASTM A193 Gr.B7 - A194 Gr.2H Hot dip galvanized | 1/2 | SB20BO01080200 | 20 | 2.40 |
| 10 | Monoflange Block & Bleed Valve API 6D FLG x THRD-F NPT 150LB RF MS01B02Y | 3/4 x 1/2 | VLBNNN00063Q0H | 3 | 15.00 |
| | INSTRUMENTS | | | | |
| 11 | Pressure Transmitter - Online 64-PT-031A | 1/2 | | 1 | --- |
| 12 | Pressure Transmitter - Online 64-PT-031B | 1/2 | | 1 | --- |
| 13 | Pressure Transmitter - Online 64-PT-002 | 1/2 | | 1 | --- |
| | SUPPORTS | | | | |
| 14 | /PS-01031.1 | 1 | | 1 | 0.19 |
| 15 | /PS-01025.2 | 1 | | 1 | 0.19 |
| 16 | /PS-01025.3 | 1 | | 1 | 0.19 |
| | | | TOTAL ERECTION WEIGHT | | 18.24 |
| | | | TOTAL WEIGHT | | 44.22 |

| REFERENCE DOCUMENTS | |
|---|---|
| 123A90-DDL-PP-RE-70001 | STRESS ANALYSIS REPORT |
| 123A90-DDL-PR-PID-80027 | P&ID |
| 123A90-DDL-MAT-SP-60003 | INSULATION SPECIFICATION |
| 123A90-DDL-MAT-SP-60006 | COATING & PAINTING SPEC. |
| 123A90-DDL-PP-00-72000 | PIPING SUPPORT BOOK |
| 123A90-DDL-PP-SP-70029 | PIPING MATERIAL CLASS |

SYMBOLS LEGEND:
BUTT WELD · THREADED · HEAT TRACING · SOCKET · PIPE SUPPORT · INSULATED

| NDT EXAMINATION | | | |
|---|---|---|---|
| NDT TYPE | % | NDT TYPE | % |
| RT | 10 | VT | 100 |
| INSPECTION CATEGORY | 2 | MT/PT | 10 |
| TESTING | | | |
| TEST FLUID | | TEST PRESS.(barg) | |
| Water | | 18 | |
| PROCESS LINE DATA | | | |
| DESIGN TEMP. (°C) | | DESIGN PRESS.(barg) | |
| -46 | 100 | | 12 |

| INSULATION & PAINTING | | |
|---|---|---|
| INS. TYPE | INS. THK. | INS. SURF. (m²) |
| N | | |
| PAINT SYS. | BASE RAL | PAINT. SURF. (m²) |
| 1 | RAL 9002 | 1.85 |
| HEAT TRACING | | |
| - | | |
| LINE DATA | | |
| STRESS SYS. | PED CAT. | PWHT |
| - | Art. 4, par. 3 | No |

| Revision Number | Date | Description | Prepared by | Checked by | Approved by |
|---|---|---|---|---|---|
| 02 | 29/09/25 | AS-BUILT (ASB) | SPS | CBO | CGI |
| 01 | 26/07/24 | ACCEPTED FOR CONSTRUCTION | MMA | CBO | DLO |
| 00 | 07/06/24 | ISSUE FOR REVIEW | MMA | CBO | DLO |

ROSETTI MARINO

# CROSSWIND

DWG TYTLE:

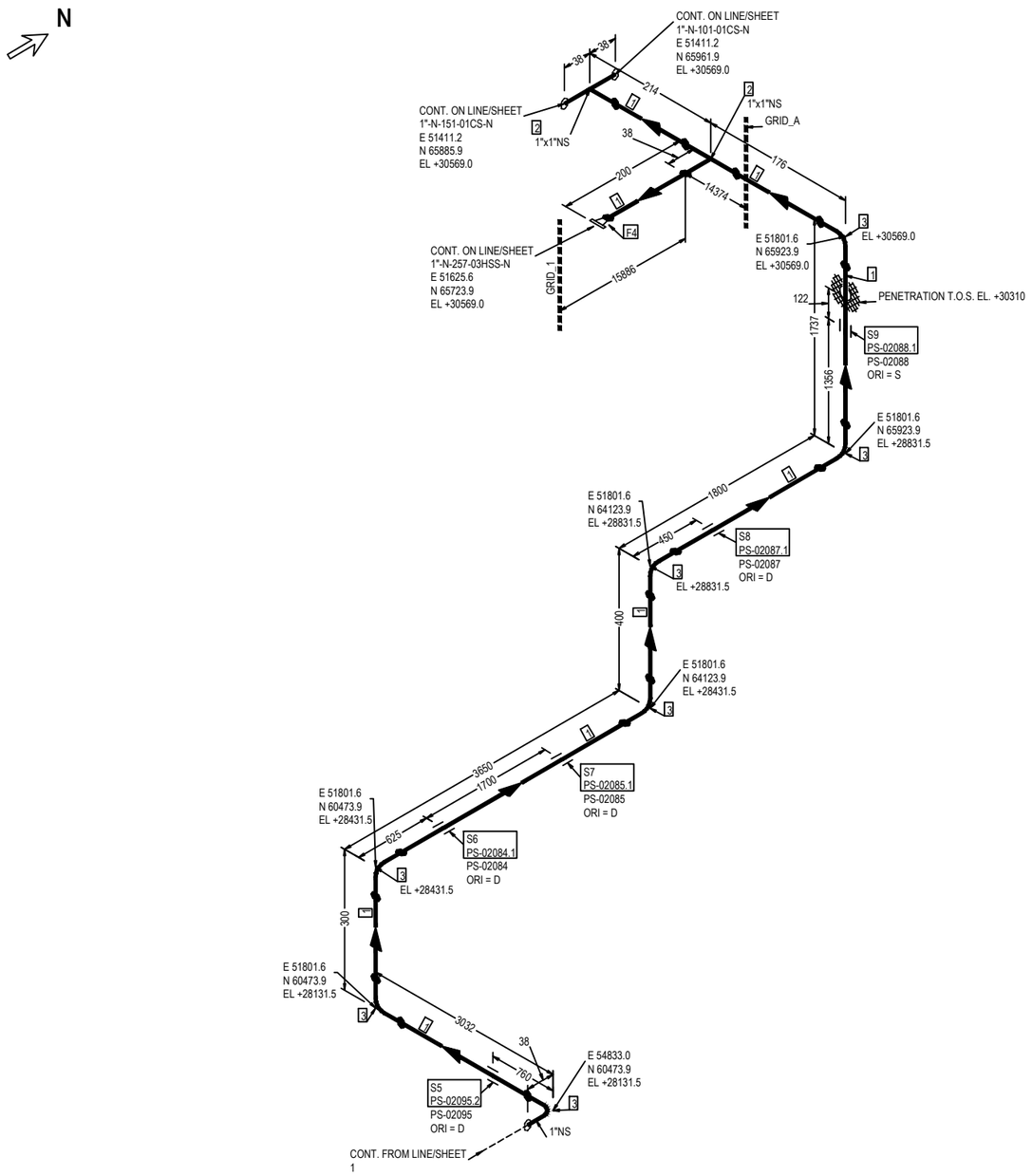
## 1"-N-100-01CS-N

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK | SCALE N.A.

DRAWN SPS | CHECKED CBO | APPROVED CGI | DATE 29/09/25

SIZE: A3 | DRAWING NO. 123A90-DDL-PP-DI-71000_034 | SHEET 1/2 | REV. 02

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FABRICATION MATERIALS

| PT NO | COMPONENT DESCRIPTION | N.S. | ITEM CODE | Q.TY | WEIGHT |
|---|---|---|---|---|---|
| 1 | Pipe ASME B36.10M PE 4,55 SML ASTM/ASME A/SA333 Gr.6 | 1 | PIPECS08300100 | 10801MM | 34.56 |
| 2 | Tee ASME B16.9 BW 4,55 WRS ASTM/ASME A/SA420 Gr.WPL6 | 1 x 1 | TEE0CS01110100 | 2 | 0.92 |
| 3 | 90 Deg Elbow Long Radius ASME B16.9 BW 4,55 WRS ASTM/ASME A/SA420 Gr.WPL6 | 1 | E90RCS01780100 | 7 | 1.26 |
| 4 | Flange WN ASME B16.5 300LB RF 4,55 FRG ASTM/ASME A/SA350 Gr.LF2 | 1 | FLW0CS16640100 | 1 | 1.80 |
| | | | TOTAL FABRICATION WEIGHT | | 38.54 |

ERECTION MATERIALS

| PT NO | COMPONENT DESCRIPTION | N.S. | ITEM CODE | Q.TY | WEIGHT |
|---|---|---|---|---|---|
| | SUPPORTS | | | | |
| 5 | /PS-02095.2 | 1 | | 1 | 0.19 |
| 6 | /PS-02084.1 | 1 | | 1 | 0.19 |
| 7 | /PS-02085.1 | 1 | | 1 | 0.19 |
| 8 | /PS-02087.1 | 1 | | 1 | 0.19 |
| 9 | /PS-02088.1 | 1 | | 1 | 0.19 |
| | | | TOTAL ERECTION WEIGHT | | 0.95 |
| | | | TOTAL WEIGHT | | 39.49 |

| REFERENCE DOCUMENTS | |
|---|---|
| 123A90-DDL-PP-RE-70001 | STRESS ANALYSIS REPORT |
| 123A90-DDL-PR-PID-80027 | P&ID |
| 123A90-DDL-MAT-SP-60003 | INSULATION SPECIFICATION |
| 123A90-DDL-MAT-SP-60006 | COATING & PAINTING SPEC. |
| 123A90-DDL-PP-00-72000 | PIPING SUPPORT BOOK |
| 123A90-DDL-PP-SP-70029 | PIPING MATERIAL CLASS |

SYMBOLS LEGEND:
BUTT WELD · THREADED · HEAT TRACING
SOCKET · PIPE SUPPORT · INSULATED

| NDT EXAMINATION | | | |
|---|---|---|---|
| NDT TYPE | % | NDT TYPE | % |
| RT | 10 | VT | 100 |
| INSPECTION CATEGORY | 2 | MT/PT | 10 |
| TESTING | | | |
| TEST FLUID | | TEST PRESS. [barg] | |
| Water | | 18 | |
| PROCESS LINE DATA | | | |
| DESIGN TEMP. [°C] | | DESIGN PRESS. [barg] | |
| -46 | 100 | | 12 |

| INSULATION & PAINTING | | |
|---|---|---|
| INS. TYPE | INS. THK. | INS. SURF. [m²] |
| N | | |
| PAINT SYS. | BASE RAL | PAINT. SURF. [m²] |
| 1 | RAL 9002 | see sh.1 |
| HEAT TRACING | | |
| - | | |
| LINE DATA | | |
| STRESS SYS. | PED CAT. | PWHT |
| - | Art. 4, par. 3 | No |

| Revision Number | Date | Description | Prepared by | Checked by | Approved by |
|---|---|---|---|---|---|
| 02 | 29/09/25 | AS-BUILT (ASB) | SPS | CBO | CGI |
| 01 | 26/07/24 | ACCEPTED FOR CONSTRUCTION | MMA | CBO | DLO |
| 00 | 07/06/24 | ISSUE FOR REVIEW | MMA | CBO | DLO |

ROSETTI MARINO

# CROSSWIND

DWG TYTLE:

## 1"-N-100-01CS-N

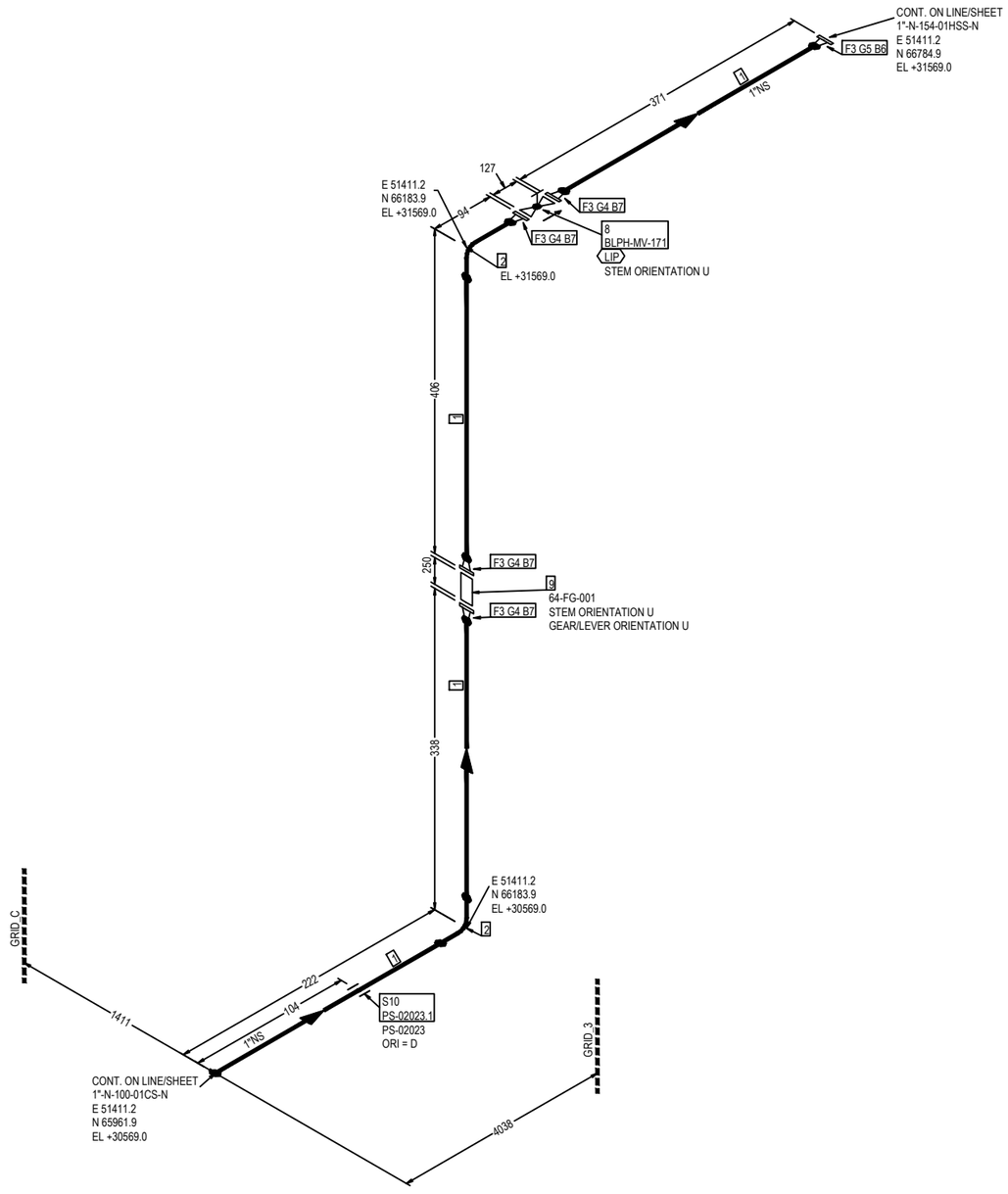
CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK

SCALE N.A.

DRAWN SPS | CHECKED CBO | APPROVED CGI | DATE 29/09/25

SIZE: A3 | DRAWING NO. 123A90-DDL-PP-DI-71000_034 | SHEET 2/2 | REV. 02

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FABRICATION MATERIALS

| PT NO | COMPONENT DESCRIPTION | N.S. | ITEM CODE | Q.TY | WEIGHT |
|---|---|---|---|---|---|
| 1 | Pipe ASME B36.10M PE 4,55 SML ASTM/ASME A/SA333 Gr.6 | 1 | PIPECS08300100 | 999MM | 3.20 |
| 2 | 90 Deg Elbow Long Radius ASME B16.9 BW 4,55 WRS ASTM/ASME A/SA420 Gr.WPL6 | 1 | E90RCS01780100 | 2 | 0.36 |
| 3 | Flange WN ASME B16.5 150LB RF 4,55 FRG ASTM/ASME A/SA350 Gr.LF2 | 1 | FLW0CS16540100 | 5 | 7.00 |
| | | | TOTAL FABRICATION WEIGHT | | 10.56 |

ERECTION MATERIALS

| PT NO | COMPONENT DESCRIPTION | N.S. | ITEM CODE | Q.TY | WEIGHT |
|---|---|---|---|---|---|
| 4 | Gasket Spiral Wound Thk. 3.2 mm ASME B16.20 150LB RF GSK AISI 316 + GRAPHITE c/w INNER RING | 1 | GSW0GK11100100 | 4 | 0.24 |
| 5 | Insulation Kit Ends as per ASME B16.5 150LB RF | 1 | SPIKNN01220100 | 1 | 0.06 |
| 6 | 80 Stud Bolt + 2 Heavy Nuts ASME B1.1 ASTM A193 Gr.B7 - A194 Gr.2H Hot dip galvanized | 1/2 | SB20BO00980200 | 4 | 0.52 |
| 7 | 65 Stud Bolt + 2 Heavy Nuts ASME B1.1 ASTM A193 Gr.B7 - A194 Gr.2H Hot dip galvanized | 1/2 | SB20BO01080200 | 16 | 1.92 |
| 8 | Globe Valve Needle In Line ASME B16.34 FLG 150LB RF NT01B02RF | 1 | VDE0NN02580100 | 1 | 8.70 |
| | INSTRUMENTS | | | | |
| 9 | Flow Transmitter - ANSI - FLG 150# 64-FG-001 | 1 | | 1 | --- |
| | SUPPORTS | | | | |
| 10 | /PS-02023.1 | 1 | | 1 | 0.19 |
| | | | TOTAL ERECTION WEIGHT | | 11.63 |
| | | | TOTAL WEIGHT | | 22.19 |

| REFERENCE DOCUMENTS | |
|---|---|
| 123A90-DDL-PP-RE-70001 | STRESS ANALYSIS REPORT |
| 123A90-DDL-PR-PID-80027 | P&ID |
| 123A90-DDL-MAT-SP-60003 | INSULATION SPECIFICATION |
| 123A90-DDL-MAT-SP-60006 | COATING & PAINTING SPEC. |
| 123A90-DDL-PP-00-72000 | PIPING SUPPORT BOOK |
| 123A90-DDL-PP-SP-70029 | PIPING MATERIAL CLASS |

SYMBOLS LEGEND:
BUTT WELD · THREADED · HEAT TRACING · SOCKET · PIPE SUPPORT · INSULATED

| NDT EXAMINATION | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NDT TYPE | % | NDT TYPE | % | | | | | | | | | | | |
| RT | 10 | VT | 100 | | | | | | | | | | | |
| INSPECTION CATEGORY | 2 | MT/PT | 10 | | | | | | | | | | | |
| TESTING | | | | | | | | | | | | | | |
| TEST FLUID | | TEST PRESS. (barg) | | | | | | | | | | | | |
| Water | | 18 | | | | | | | | | | | | |
| PROCESS LINE DATA | | | | | | | | | | | | | | |
| DESIGN TEMP. (°C) | | | DESIGN PRESS. (barg) | | | | | | | | | | | |
| -46 | 100 | | 12 | | | | | | | | | | | |

| INSULATION & PAINTING | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| INS. TYPE | INS. THK. | INS. SURF. (m²) | | | | | | | | | | | | |
| N | | | | | | | | | | | | | | |
| PAINT SYS. | BASE RAL | PAINT. SURF. (m²) | | | | | | | | | | | | |
| 1 | RAL 9002 | 0.19 | | | | | | | | | | | | |
| HEAT TRACING | | | | | | | | | | | | | | |
| - | | | | | | | | | | | | | | |
| LINE DATA | | | | | | | | | | | | | | |
| STRESS SYS. | PED CAT. | PWHT | | | | | | | | | | | | |
| - | Art. 4, par. 3 | No | | | | | | | | | | | | |

| Revision Number | Date | Description | Prepared by | Checked by | Approved by |
|---|---|---|---|---|---|
| 02 | 29/09/25 | AS-BUILT (ASB) | SPS | CBO | CGI |
| 01 | 26/07/24 | ACCEPTED FOR CONSTRUCTION | MMA | CBO | DLO |
| 00 | 07/06/24 | ISSUE FOR REVIEW | MMA | CBO | DLO |

ROSETTI MARINO

# CROSSWIND

DWG TYTLE:

## 1"-N-101-01CS-N

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK

SCALE N.A.

DRAWN SPS | CHECKED CBO | APPROVED CGI | DATE 29/09/25

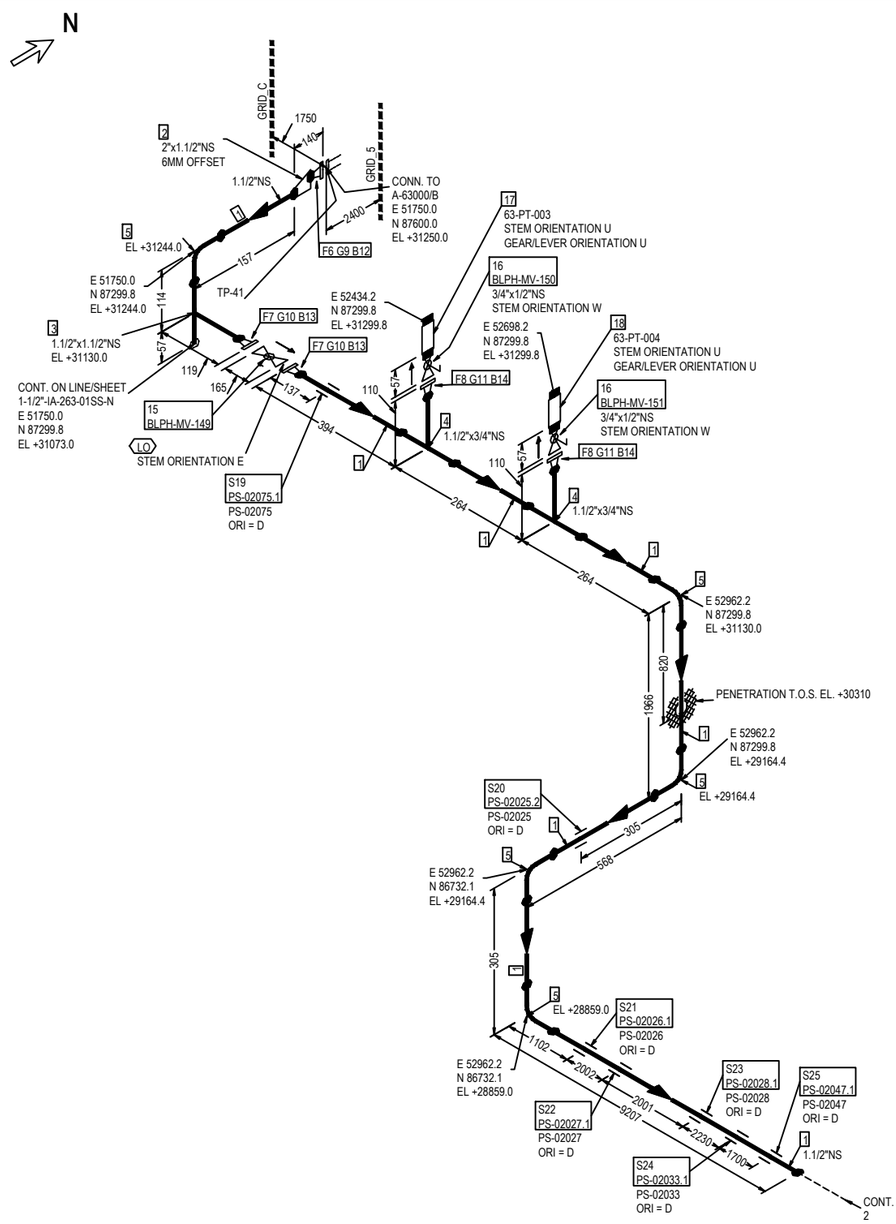
SIZE: A3

DRAWING NO. 123A90-DDL-PP-DI-71000_035

SHEET 1/1

REV. 02

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FABRICATION MATERIALS

| PT NO | COMPONENT DESCRIPTION | N.S. | ITEM CODE | Q.TY | WEIGHT |
|---|---|---|---|---|---|
| 1 | Pipe ASME B36.19M PE 3,68 SML ASTM A312 Gr.TP316/316L | 1.1/2 | PIPESS00531H00 | 12322MM | 50.52 |
| 2 | Reducer Eccentric ASME B16.9 BW 2,77x3,68 WRS ASTM A403 Gr.WP316/316L | 2 x 1.1/2 | REE0SS0242021H | 1 | 0.31 |
| 3 | Tee ASME B16.9 BW 3,68 WRS ASTM A403 Gr.WP316/316L | 1.1/2 x 1.1/2 | TEE0SS00561H00 | 1 | 0.82 |
| 4 | Tee Reducing ASME B16.9 BW 3,68x2,87 WRS ASTM A403 Gr.WP316/316L | 1.1/2 x 3/4 | TER0SS03751H3Q | 2 | 1.50 |
| 5 | 90 Deg Elbow Long Radius ASME B16.9 BW 3,68 WRS ASTM A403 Gr.WP316/316L | 1.1/2 | E90RSS00681H00 | 5 | 1.85 |
| 6 | Flange WN ASME B16.5 150LB RF 2,77 FRG ASTM A182 Gr.F316/316L | 2 | FLW0SS00010200 | 1 | 2.74 |
| 7 | Flange WN ASME B16.5 150LB RF 3,68 FRG ASTM A182 Gr.F316/316L | 1.1/2 | FLW0SS00941H00 | 2 | 3.66 |
| 8 | Flange WN ASME B16.5 150LB RF 2,87 FRG ASTM A182 Gr.F316/316L | 3/4 | FLW0SS00923Q00 | 2 | 1.82 |
| | | | TOTAL FABRICATION WEIGHT | | 63.22 |

ERECTION MATERIALS

| PT NO | COMPONENT DESCRIPTION | N.S. | ITEM CODE | Q.TY | WEIGHT |
|---|---|---|---|---|---|
| 9 | Gasket Spiral Wound Thk. 3.2 mm ASME B16.20 150LB RF GSK AISI 316 + GRAPHITE c/w INNER RING | 2 | GSW0GK11130200 | 1 | 0.10 |
| 10 | Gasket Spiral Wound Thk. 3.2 mm ASME B16.20 150LB RF GSK AISI 316 + GRAPHITE c/w INNER RING | 1.1/2 | GSW0GK11121H00 | 2 | 0.14 |
| 11 | Gasket Spiral Wound Thk. 3.2 mm ASME B16.20 150LB RF GSK AISI 316 + GRAPHITE c/w INNER RING | 3/4 | GSW0GK11093Q00 | 2 | 0.10 |
| 12 | 85 Stud Bolt + 2 Heavy Nuts ASME B1.1 ASTM A193 Gr.B7 - A194 Gr.2H Hot dip galvanized | 5/8 | SB20BO00660300 | 4 | 0.96 |
| 13 | 70 Stud Bolt + 2 Heavy Nuts ASME B1.1 ASTM A193 Gr.B7 - A194 Gr.2H Hot dip galvanized | 1/2 | SB20BO00930200 | 8 | 0.96 |
| 14 | 65 Stud Bolt + 2 Heavy Nuts ASME B1.1 ASTM A193 Gr.B7 - A194 Gr.2H Hot dip galvanized | 1/2 | SB20BO01080200 | 8 | 0.96 |
| 15 | Ball Valve Split Body FB API 6D FLG 150LB RF BS01C01RF | 1.1/2 | VBC0NN06961H00 | 1 | 12.70 |
| 16 | Monoflange Block & Bleed Valve API 6D FLG x THRD-F NPT 150LB RF MS01C02Y | 3/4 x 1/2 | VLBNNN00033Q0H | 2 | 8.60 |
| | INSTRUMENTS | | | | |
| 17 | Pressure Transmitter - Online 63-PT-003 | 1/2 | | 1 | --- |
| 18 | Pressure Transmitter - Online 63-PT-004 | 1/2 | | 1 | --- |
| | SUPPORTS | | | | |
| 19 | /PS-02075.1 | 1.1/2 | | 1 | 0.29 |
| 20 | /PS-02025.2 | 1.1/2 | | 1 | 0.29 |
| 21 | /PS-02026.1 | 1.1/2 | | 1 | 0.29 |
| 22 | /PS-02027.1 | 1.1/2 | | 1 | 0.29 |
| 23 | /PS-02028.1 | 1.1/2 | | 1 | 0.29 |
| 24 | /PS-02033.1 | 1.1/2 | | 1 | 0.29 |
| 25 | /PS-02047.1 | 1.1/2 | | 1 | 0.29 |
| | | | TOTAL ERECTION WEIGHT | | 26.55 |
| | | | TOTAL WEIGHT | | 89.97 |

| REFERENCE DOCUMENTS | | NDT EXAMINATION | | | | INSULATION & PAINTING | | |
|---|---|---|---|---|---|---|---|---|
| 123A90-DDL-PP-RE-70001 | STRESS ANALYSIS REPORT | NDT TYPE | % | NDT TYPE | % | INS. TYPE | INS. THK. | INS. SURF. (m²) |
| 123A90-DDL-PR-PID-80027 | P&ID | RT | 10 | VT | 100 | N | | |
| 123A90-DDL-MAT-SP-60003 | INSULATION SPECIFICATION | INSPECTION CATEGORY | 2 | MT/PT | 10 | PAINT SYS. | BASE RAL | PAINT. SURF. (m²) |
| 123A90-DDL-MAT-SP-60006 | COATING & PAINTING SPEC. | TESTING | | | | 6A | RAL 9002 | 18.48 |
| 123A90-DDL-PP-00-72000 | PIPING SUPPORT BOOK | TEST FLUID | | TEST PRESS. (barg) | | HEAT TRACING | | |
| 123A90-DDL-PP-SP-70029 | PIPING MATERIAL CLASS | Water | | 18 | | - | | |
| SYMBOLS LEGEND: BUTT WELD, THREADED, HEAT TRACING, SOCKET, PIPE SUPPORT, INSULATED | | PROCESS LINE DATA | | | | LINE DATA | | |
| | | DESIGN TEMP. (°C) | | DESIGN PRESS. (barg) | | STRESS SYS. | PED CAT. | PWHT |
| | | -29 | 100 | | 12 | - | Art. 4, par. 3 | No |

| Revision Number | Date | Description | Prepared by | Checked by | Approved by |
|---|---|---|---|---|---|
| 02 | 29/09/25 | AS-BUILT (ASB) | SPS | CBO | CGI |
| 01 | 26/07/24 | ACCEPTED FOR CONSTRUCTION | MMA | CBO | DLO |
| 00 | 07/06/24 | ISSUE FOR REVIEW | MMA | CBO | DLO |

ROSETTI MARINO

CROSSWIND

DWG TYTLE:

# 1-1/2"-IA-108-01SS-N

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK

SCALE N.A.

DRAWN SPS | CHECKED CBO | APPROVED CGI | DATE 29/09/25

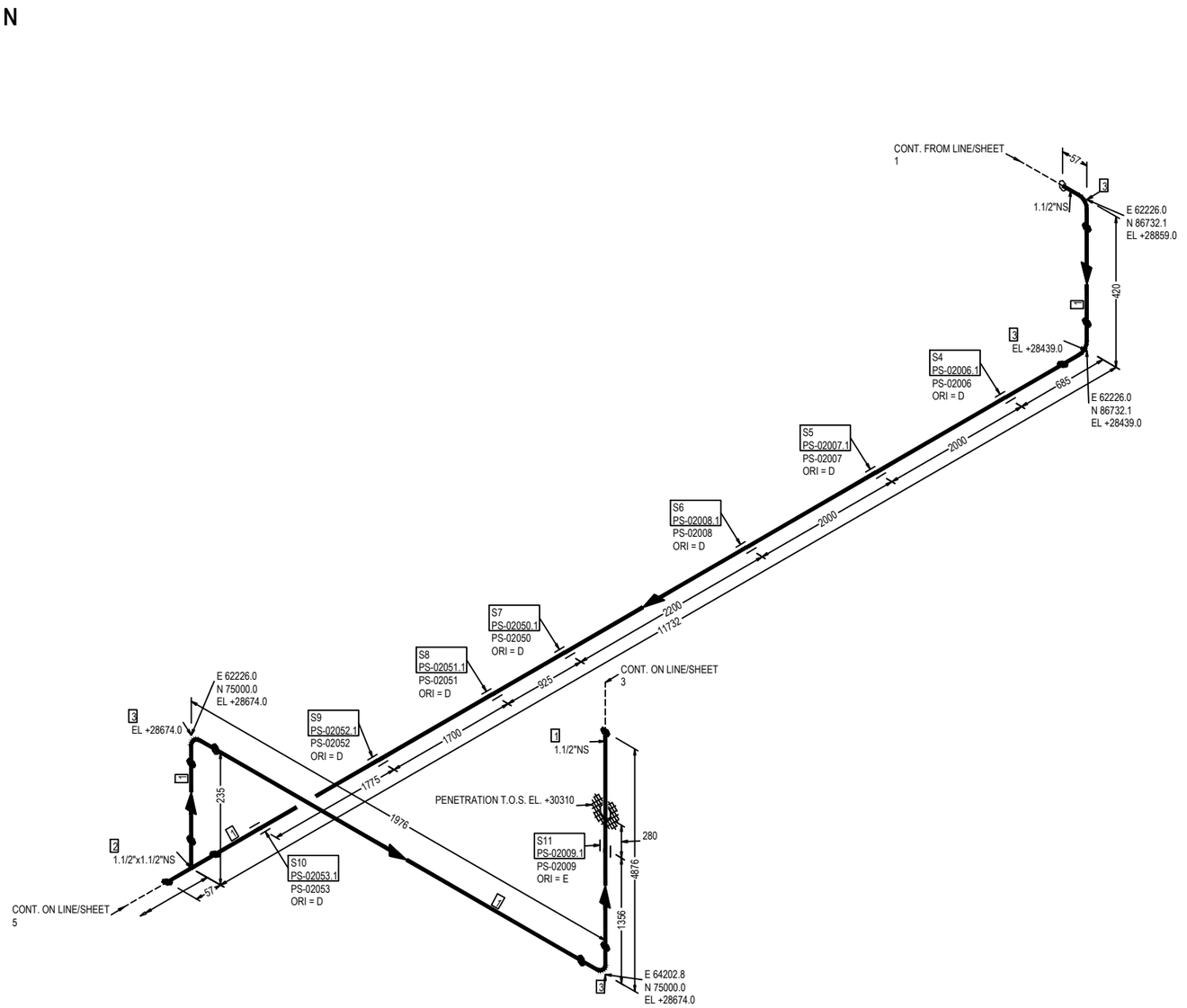
SIZE: A3

DRAWING NO. 123A90-DDL-PP-DI-71000_036

SHEET 1 / 8

REV. 02

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FABRICATION MATERIALS

| PT NO | COMPONENT DESCRIPTION | N.S. | ITEM CODE | Q.TY | WEIGHT |
|---|---|---|---|---|---|
| 1 | Pipe ASME B36.19M PE 3,68 SML ASTM A312 Gr.TP316/316L | 1.1/2 | PIPESS00531H00 | 18726MM | 76.78 |
| 2 | Tee ASME B16.9 BW 3,68 WRS ASTM A403 Gr.WP316/316L | 1.1/2 x 1.1/2 | TEE0SS00561H00 | 1 | 0.82 |
| 3 | 90 Deg Elbow Long Radius ASME B16.9 BW 3,68 WRS ASTM A403 Gr.WP316/316L | 1.1/2 | E90RSS00681H00 | 4 | 1.48 |
| | | | TOTAL FABRICATION WEIGHT | | 79.08 |

ERECTION MATERIALS

| PT NO | COMPONENT DESCRIPTION | N.S. | ITEM CODE | Q.TY | WEIGHT |
|---|---|---|---|---|---|
| | SUPPORTS | | | | |
| 4 | /PS-02006.1 | 1.1/2 | | 1 | 0.29 |
| 5 | /PS-02007.1 | 1.1/2 | | 1 | 0.29 |
| 6 | /PS-02008.1 | 1.1/2 | | 1 | 0.29 |
| 7 | /PS-02050.1 | 1.1/2 | | 1 | 0.29 |
| 8 | /PS-02051.1 | 1.1/2 | | 1 | 0.29 |
| 9 | /PS-02052.1 | 1.1/2 | | 1 | 0.29 |
| 10 | /PS-02053.1 | 1.1/2 | | 1 | 0.29 |
| 11 | /PS-02009.1 | 1.1/2 | | 1 | 0.29 |
| | | | TOTAL ERECTION WEIGHT | | 2.32 |
| | | | TOTAL WEIGHT | | 81.40 |

| REFERENCE DOCUMENTS | |
|---|---|
| 123A90-DDL-PP-RE-70001 | STRESS ANALYSIS REPORT |
| 123A90-DDL-PR-PID-80027 | P&ID |
| 123A90-DDL-MAT-SP-60003 | INSULATION SPECIFICATION |
| 123A90-DDL-MAT-SP-60006 | COATING & PAINTING SPEC. |
| 123A90-DDL-PP-00-72000 | PIPING SUPPORT BOOK |
| 123A90-DDL-PP-SP-70029 | PIPING MATERIAL CLASS |

SYMBOLS LEGEND:
BUTT WELD · THREADED · HEAT TRACING · SOCKET · PIPE SUPPORT · INSULATED

| NDT EXAMINATION | | | |
|---|---|---|---|
| NDT TYPE | % | NDT TYPE | % |
| RT | 10 | VT | 100 |
| INSPECTION CATEGORY | 2 | MT/PT | 10 |
| TESTING | | | |
| TEST FLUID | | TEST PRESS.[barg] | |
| Water | | 18 | |
| PROCESS LINE DATA | | | |
| DESIGN TEMP. [°C] | | DESIGN PRESS.[barg] | |
| -29 | 100 | | 12 |

| INSULATION & PAINTING | | |
|---|---|---|
| INS. TYPE | INS. THK. | INS. SURF. [m²] |
| N | | |
| PAINT SYS. | BASE RAL | PAINT. SURF. [m²] |
| 6A | RAL 9002 | see sh.1 |
| HEAT TRACING | | |
| - | | |
| LINE DATA | | |
| STRESS SYS. | PED CAT. | PWHT |
| - | Art. 4, par. 3 | No |

| Revision Number | Date | Description | Prepared by | Checked by | Approved by |
|---|---|---|---|---|---|
| 02 | 29/09/25 | AS-BUILT (ASB) | SPS | CBO | CGI |
| 01 | 26/07/24 | ACCEPTED FOR CONSTRUCTION | MMA | CBO | DLO |
| 00 | 07/06/24 | ISSUE FOR REVIEW | MMA | CBO | DLO |

ROSETTI MARINO

# CROSSWIND

DWG TYTLE:

## 1-1/2"-IA-108-01SS-N

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK

SCALE N.A.

DRAWN SPS | CHECKED CBO | APPROVED CGI | DATE 29/09/25

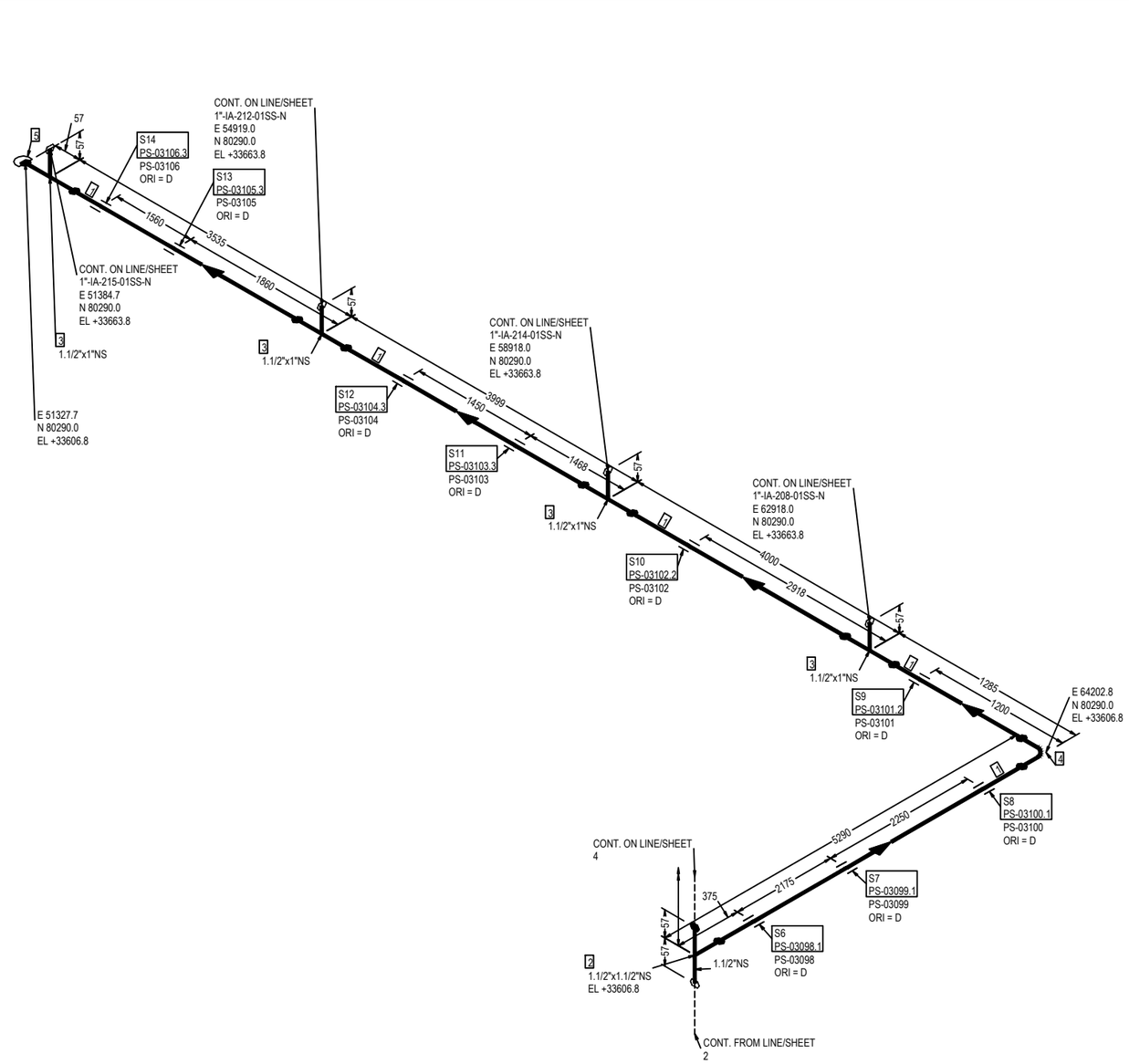
SIZE: A3

DRAWING NO. 123A90-DDL-PP-DI-71000_036

SHEET 2/8

REV. 02

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FABRICATION MATERIALS

| PT NO | COMPONENT DESCRIPTION | N.S. | ITEM CODE | Q.TY | WEIGHT |
|---|---|---|---|---|---|
| 1 | Pipe ASME B36.19M PE 3,68 SML ASTM A312 Gr.TP316/316L | 1.1/2 | PIPESS00531H00 | 17539MM | 71.91 |
| 2 | Tee ASME B16.9 BW 3,68 WRS ASTM A403 Gr.WP316/316L | 1.1/2 x 1.1/2 | TEE0SS00561H00 | 1 | 0.82 |
| 3 | Tee Reducing ASME B16.9 BW 3,68x3,38 WRS ASTM A403 Gr.WP316/316L | 1.1/2 x 1 | TER0SS01741H01 | 4 | 3.00 |
| 4 | 90 Deg Elbow Long Radius ASME B16.9 BW 3,68 WRS ASTM A403 Gr.WP316/316L | 1.1/2 | E90RSS00681H00 | 1 | 0.37 |
| 5 | Cap ASME B16.9 BW 3,68 WRS ASTM A403 Gr.WP316/316L | 1.1/2 | CAP0SS01041H00 | 1 | 0.19 |
| | | | TOTAL FABRICATION WEIGHT | | 76.29 |

ERECTION MATERIALS

| PT NO | COMPONENT DESCRIPTION | N.S. | ITEM CODE | Q.TY | WEIGHT |
|---|---|---|---|---|---|
| | SUPPORTS | | | | |
| 6 | /PS-03098.1 | 1.1/2 | | 1 | 0.29 |
| 7 | /PS-03099.1 | 1.1/2 | | 1 | 0.29 |
| 8 | /PS-03100.1 | 1.1/2 | | 1 | 0.29 |
| 9 | /PS-03101.2 | 1.1/2 | | 1 | 0.29 |
| 10 | /PS-03102.2 | 1.1/2 | | 1 | 0.29 |
| 11 | /PS-03103.3 | 1.1/2 | | 1 | 0.29 |
| 12 | /PS-03104.3 | 1.1/2 | | 1 | 0.29 |
| 13 | /PS-03105.3 | 1.1/2 | | 1 | 0.29 |
| 14 | /PS-03106.3 | 1.1/2 | | 1 | 0.29 |
| | | | TOTAL ERECTION WEIGHT | | 2.61 |
| | | | TOTAL WEIGHT | | 78.90 |

| REFERENCE DOCUMENTS | |
|---|---|
| 123A90-DDL-PP-RE-70001 | STRESS ANALYSIS REPORT |
| 123A90-DDL-PR-PID-80027 | P&ID |
| 123A90-DDL-MAT-SP-60003 | INSULATION SPECIFICATION |
| 123A90-DDL-MAT-SP-60006 | COATING & PAINTING SPEC. |
| 123A90-DDL-PP-00-72000 | PIPING SUPPORT BOOK |
| 123A90-DDL-PP-SP-70029 | PIPING MATERIAL CLASS |

SYMBOLS LEGEND:
BUTT WELD · THREADED · HEAT TRACING · SOCKET · PIPE SUPPORT · INSULATED

| NDT EXAMINATION | | | | INSULATION & PAINTING | | |
|---|---|---|---|---|---|---|
| NDT TYPE | % | NDT TYPE | % | INS. TYPE | INS. THK. | INS. SURF. (m²) |
| RT | 10 | VT | 100 | N | | |
| INSPECTION CATEGORY | 2 | MT/PT | 10 | PAINT SYS. | BASE RAL | PAINT. SURF. (m²) |
| TESTING | | | | 6A | RAL 9002 | See Sh.1 |
| TEST FLUID | | TEST PRESS. (barg) | | HEAT TRACING | | |
| Water | | 18 | | - | | |

| PROCESS LINE DATA | | | | LINE DATA | | |
|---|---|---|---|---|---|---|
| DESIGN TEMP. (°C) | | DESIGN PRESS. (barg) | | STRESS SYS. | PED CAT. | PWHT |
| -29 | 100 | | 12 | - | Art. 4, par. 3 | No |

| Revision Number | Date | Description | Prepared by | Checked by | Approved by |
|---|---|---|---|---|---|
| 02 | 29/09/25 | AS-BUILT (ASB) | SPS | CBO | CGI |
| 01 | 26/07/24 | ACCEPTED FOR CONSTRUCTION | MMA | CBO | DLO |
| 00 | 07/06/24 | ISSUE FOR REVIEW | MMA | CBO | DLO |

ROSETTI MARINO

# CROSSWIND

DWG TYTLE:

## 1-1/2"-IA-108-01SS-N

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK

SCALE N.A.

DRAWN SPS | CHECKED CBO | APPROVED CGI | DATE 29/09/25

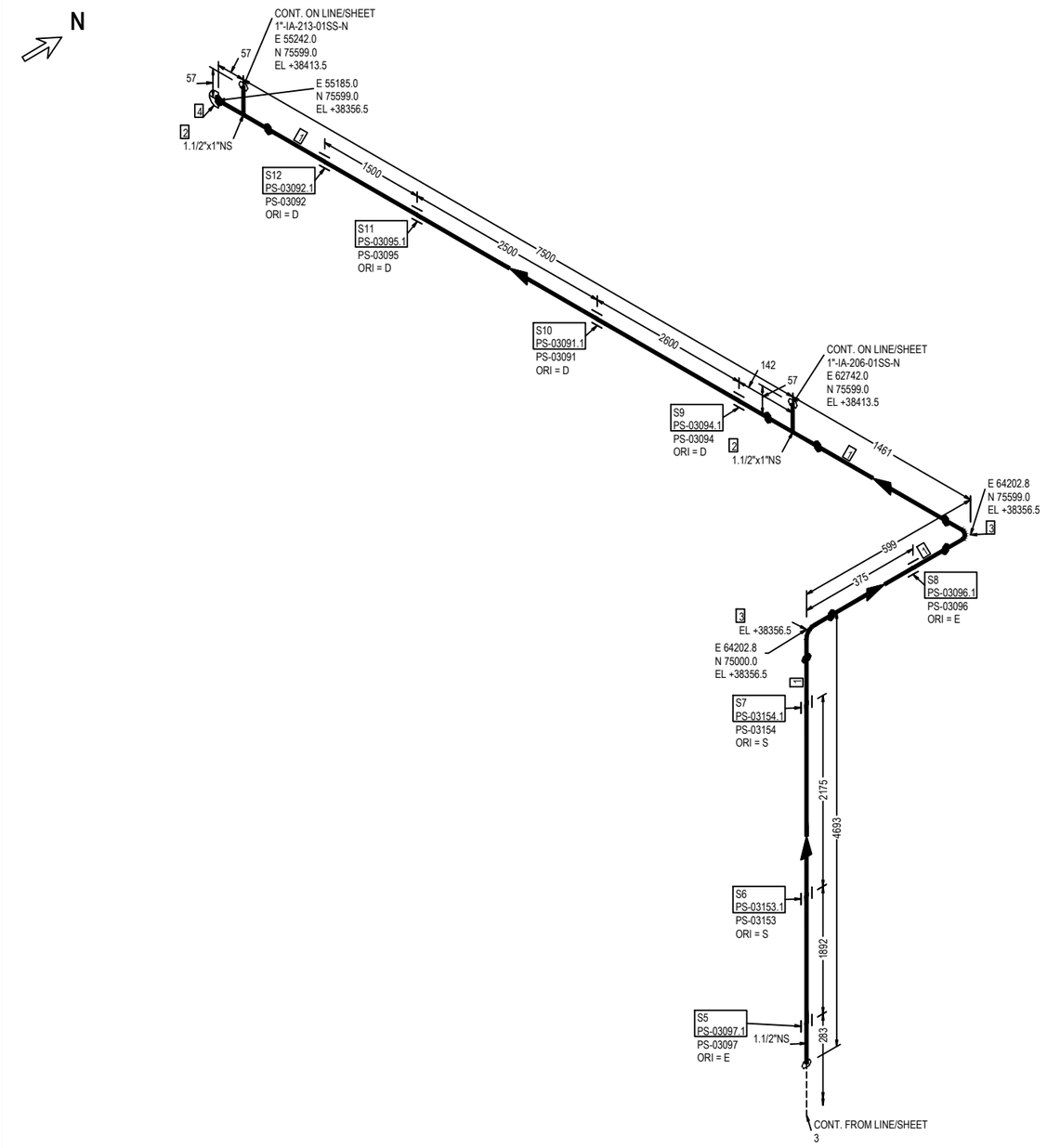
SIZE: A3

DRAWING NO. 123A90-DDL-PP-DI-71000_036

SHEET 3/8

REV. 02

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FABRICATION MATERIALS

| PT NO | COMPONENT DESCRIPTION | N.S. | ITEM CODE | Q.TY | WEIGHT |
|---|---|---|---|---|---|
| 1 | Pipe ASME B36.19M PE 3,68 SML ASTM A312 Gr.TP316/316L | 1.1/2 | PIPESS00531H00 | 13854MM | 56.80 |
| 2 | Tee Reducing ASME B16.9 BW 3,68x3,38 WRS ASTM A403 Gr.WP316/316L | 1.1/2 x 1 | TER0SS01741H01 | 2 | 1.50 |
| 3 | 90 Deg Elbow Long Radius ASME B16.9 BW 3,68 WRS ASTM A403 Gr.WP316/316L | 1.1/2 | E90RSS00681H00 | 2 | 0.74 |
| 4 | Cap ASME B16.9 BW 3,68 WRS ASTM A403 Gr.WP316/316L | 1.1/2 | CAP0SS01041H00 | 1 | 0.19 |
| | | | TOTAL FABRICATION WEIGHT | | 59.23 |

ERECTION MATERIALS

| PT NO | COMPONENT DESCRIPTION | N.S. | ITEM CODE | Q.TY | WEIGHT |
|---|---|---|---|---|---|
| | SUPPORTS | | | | |
| 5 | /PS-03097.1 | 1.1/2 | | 1 | 0.29 |
| 6 | /PS-03153.1 | 1.1/2 | | 1 | 0.29 |
| 7 | /PS-03154.1 | 1.1/2 | | 1 | 0.29 |
| 8 | /PS-03096.1 | 1.1/2 | | 1 | 0.29 |
| 9 | /PS-03094.1 | 1.1/2 | | 1 | 0.29 |
| 10 | /PS-03091.1 | 1.1/2 | | 1 | 0.29 |
| 11 | /PS-03095.1 | 1.1/2 | | 1 | 0.29 |
| 12 | /PS-03092.1 | 1.1/2 | | 1 | 0.29 |
| | | | TOTAL ERECTION WEIGHT | | 2.32 |
| | | | TOTAL WEIGHT | | 61.55 |

| REFERENCE DOCUMENTS | |
|---|---|
| 123A90-DDL-PP-RE-70001 | STRESS ANALYSIS REPORT |
| 123A90-DDL-PR-PID-80027 | P&ID |
| 123A90-DDL-MAT-SP-60003 | INSULATION SPECIFICATION |
| 123A90-DDL-MAT-SP-60006 | COATING & PAINTING SPEC. |
| 123A90-DDL-PP-00-72000 | PIPING SUPPORT BOOK |
| 123A90-DDL-PP-SP-70029 | PIPING MATERIAL CLASS |

SYMBOLS LEGEND:
BUTT WELD — THREADED — HEAT TRACING
SOCKET — PIPE SUPPORT — INSULATED

| NDT EXAMINATION | | | |
|---|---|---|---|
| NDT TYPE | % | NDT TYPE | % |
| RT | 10 | VT | 100 |
| INSPECTION CATEGORY | 2 | MT/PT | 10 |
| TESTING | | | |
| TEST FLUID | | TEST PRESS. [barg] | |
| Water | | 18 | |
| PROCESS LINE DATA | | | |
| DESIGN TEMP. [°C] | | DESIGN PRESS. [barg] | |
| -29 | 100 | | 12 |

| INSULATION & PAINTING | | |
|---|---|---|
| INS. TYPE | INS. THK. | INS. SURF. [m²] |
| N | | |
| PAINT SYS. | BASE RAL | PAINT. SURF. [m²] |
| 6A | RAL 9002 | see sh.1 |
| HEAT TRACING | | |
| - | | |
| LINE DATA | | |
| STRESS SYS. | PED CAT. | PWHT |
| - | Art. 4, par. 3 | No |

| Revision Number | Date | Description | Prepared by | Checked by | Approved by |
|---|---|---|---|---|---|
| 02 | 29/09/25 | AS-BUILT (ASB) | SPS | CBO | CGI |
| 01 | 26/07/24 | ACCEPTED FOR CONSTRUCTION | MMA | CBO | DLO |
| 00 | 07/06/24 | ISSUE FOR REVIEW | MMA | CBO | DLO |

ROSETTI MARINO

# CROSSWIND

DWG TYTLE:

## 1-1/2"-IA-108-01SS-N

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK

SCALE N.A.

DRAWN SPS | CHECKED CBO | APPROVED CGI | DATE 29/09/25

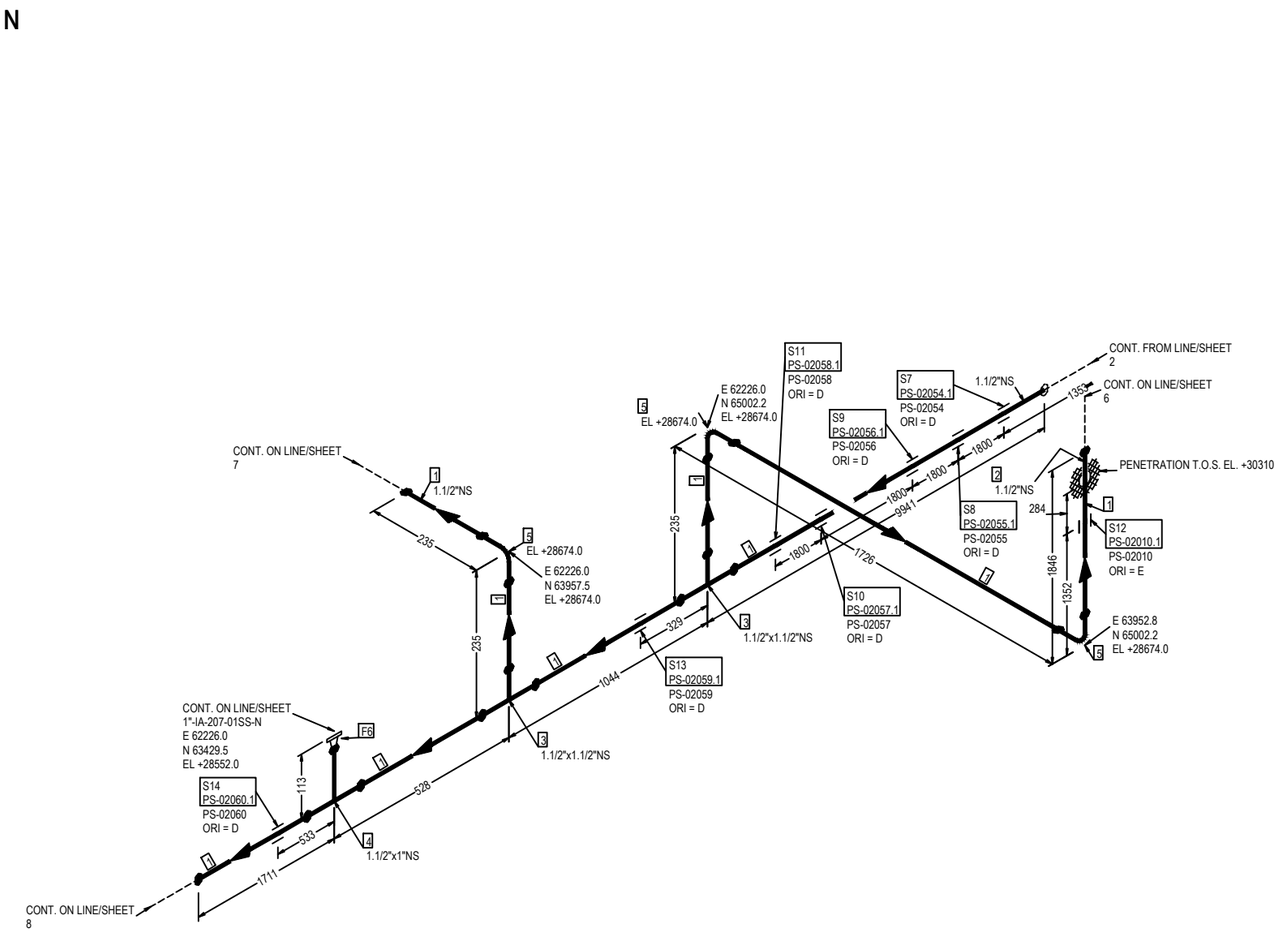
SIZE: A3

DRAWING NO. 123A90-DDL-PP-DI-71000_036

SHEET 4/8

REV. 02

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FABRICATION MATERIALS

| PT NO | COMPONENT DESCRIPTION | N.S. | ITEM CODE | Q.TY | WEIGHT |
|---|---|---|---|---|---|
| 1 | Pipe ASME B36.19M PE 3,68 SML ASTM A312 Gr.TP316/316L | 1.1/2 | PIPESS00531H00 | 16493MM | 67.62 |
| 2 | Pipe ASME B36.19M PE 3,38 SML ASTM A312 Gr.TP316/316L | 1.1/2 | PIPESS00480100 | 210MM | 0.86 |
| 3 | Tee ASME B16.9 BW 3,68 WRS ASTM A403 Gr.WP316/316L | 1.1/2 x 1.1/2 | TEE0SS00561H00 | 2 | 1.64 |
| 4 | Tee Reducing ASME B16.9 BW 3,68x3,38 WRS ASTM A403 Gr.WP316/316L | 1.1/2 x 1 | TER0SS01741H01 | 1 | 0.75 |
| 5 | 90 Deg Elbow Long Radius ASME B16.9 BW 3,68 WRS ASTM A403 Gr.WP316/316L | 1.1/2 | E90RSS00681H00 | 3 | 1.11 |
| 6 | Flange WN ASME B16.5 150LB RF 3,38 FRG ASTM A182 Gr.F316/316L | 1 | FLW0SS00930100 | 1 | 1.42 |
| | | | | TOTAL FABRICATION WEIGHT | 73.40 |

ERECTION MATERIALS

| PT NO | COMPONENT DESCRIPTION | N.S. | ITEM CODE | Q.TY | WEIGHT |
|---|---|---|---|---|---|
| | SUPPORTS | | | | |
| 7 | /PS-02054.1 | 1.1/2 | | 1 | 0.29 |
| 8 | /PS-02055.1 | 1.1/2 | | 1 | 0.29 |
| 9 | /PS-02056.1 | 1.1/2 | | 1 | 0.29 |
| 10 | /PS-02057.1 | 1.1/2 | | 1 | 0.29 |
| 11 | /PS-02058.1 | 1.1/2 | | 1 | 0.29 |
| 12 | /PS-02010.1 | 1.1/2 | | 1 | 0.29 |
| 13 | /PS-02059.1 | 1.1/2 | | 1 | 0.29 |
| 14 | /PS-02060.1 | 1.1/2 | | 1 | 0.29 |
| | | | | TOTAL ERECTION WEIGHT | 2.32 |
| | | | | TOTAL WEIGHT | 75.72 |

| REFERENCE DOCUMENTS | |
|---|---|
| 123A90-DDL-PP-RE-70001 | STRESS ANALYSIS REPORT |
| 123A90-DDL-PR-PID-80027 | P&ID |
| 123A90-DDL-MAT-SP-60003 | INSULATION SPECIFICATION |
| 123A90-DDL-MAT-SP-60006 | COATING & PAINTING SPEC. |
| 123A90-DDL-PP-00-72000 | PIPING SUPPORT BOOK |
| 123A90-DDL-PP-SP-70029 | PIPING MATERIAL CLASS |

SYMBOLS LEGEND:
BUTT WELD — THREADED — HEAT TRACING
SOCKET — PIPE SUPPORT — INSULATED

| NDT EXAMINATION | | | |
|---|---|---|---|
| NDT TYPE | % | NDT TYPE | % |
| RT | 10 | VT | 100 |
| INSPECTION CATEGORY | 2 | MT/PT | 10 |
| TESTING | | | |
| TEST FLUID | | TEST PRESS. [barg] | |
| Water | | 18 | |
| PROCESS LINE DATA | | | |
| DESIGN TEMP. [°C] | | DESIGN PRESS. [barg] | |
| -29 | 100 | | 12 |

| INSULATION & PAINTING | | |
|---|---|---|
| INS. TYPE | INS. THK. | INS. SURF. [m²] |
| N | | |
| PAINT SYS. | BASE RAL | PAINT. SURF. [m²] |
| 6A | RAL 9002 | see sh.1 |
| HEAT TRACING | | |
| - | | |
| LINE DATA | | |
| STRESS SYS. | PED CAT. | PWHT |
| - | Art. 4, par. 3 | No |

| Revision Number | Date | Description | Prepared by | Checked by | Approved by |
|---|---|---|---|---|---|
| 02 | 29/09/25 | AS-BUILT (ASB) | SPS | CBO | CGI |
| 01 | 26/07/24 | ACCEPTED FOR CONSTRUCTION | MMA | CBO | DLO |
| 00 | 07/06/24 | ISSUE FOR REVIEW | MMA | CBO | DLO |

ROSETTI MARINO

# CROSSWIND

DWG TYTLE:

## 1-1/2"-IA-108-01SS-N

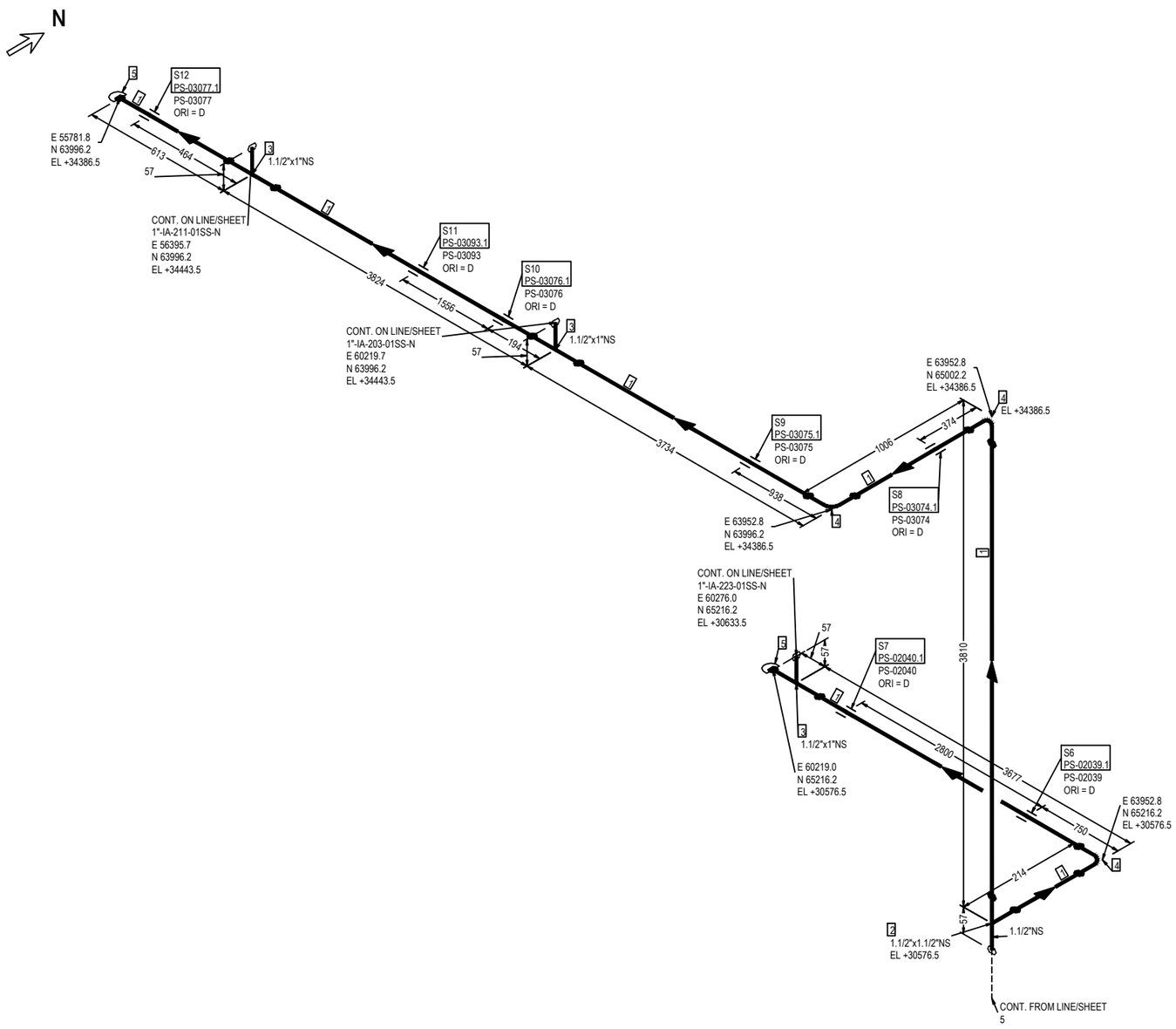
CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK

SCALE N.A.

DRAWN SPS | CHECKED CBO | APPROVED CGI | DATE 29/09/25

SIZE: A3 | DRAWING NO. 123A90-DDL-PP-DI-71000_036 | SHEET 5/8 | REV. 02

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FABRICATION MATERIALS

| PT NO | COMPONENT DESCRIPTION | N.S. | ITEM CODE | Q.TY | WEIGHT |
|---|---|---|---|---|---|
| 1 | Pipe ASME B36.19M PE 3,68 SML ASTM A312 Gr.TP316/316L | 1.1/2 | PIPESS00531H00 | 16137MM | 66.16 |
| 2 | Tee ASME B16.9 BW 3,68 WRS ASTM A403 Gr.WP316/316L | 1.1/2 x 1.1/2 | TEE0SS00561H00 | 1 | 0.82 |
| 3 | Tee Reducing ASME B16.9 BW 3,68x3,38 WRS ASTM A403 Gr.WP316/316L | 1.1/2 x 1 | TER0SS01741H01 | 3 | 2.25 |
| 4 | 90 Deg Elbow Long Radius ASME B16.9 BW 3,68 WRS ASTM A403 Gr.WP316/316L | 1.1/2 | E90RSS00681H00 | 3 | 1.11 |
| 5 | Cap ASME B16.9 BW 3,68 WRS ASTM A403 Gr.WP316/316L | 1.1/2 | CAP0SS01041H00 | 2 | 0.38 |
| | | | TOTAL FABRICATION WEIGHT | | 70.72 |

ERECTION MATERIALS

| PT NO | COMPONENT DESCRIPTION | N.S. | ITEM CODE | Q.TY | WEIGHT |
|---|---|---|---|---|---|
| | SUPPORTS | | | | |
| 6 | /PS-02039.1 | 1.1/2 | | 1 | 0.29 |
| 7 | /PS-02040.1 | 1.1/2 | | 1 | 0.29 |
| 8 | /PS-03074.1 | 1.1/2 | | 1 | 0.29 |
| 9 | /PS-03075.1 | 1.1/2 | | 1 | 0.29 |
| 10 | /PS-03076.1 | 1.1/2 | | 1 | 0.29 |
| 11 | /PS-03093.1 | 1.1/2 | | 1 | 0.29 |
| 12 | /PS-03077.1 | 1.1/2 | | 1 | 0.29 |
| | | | TOTAL ERECTION WEIGHT | | 2.03 |
| | | | TOTAL WEIGHT | | 72.75 |

| REFERENCE DOCUMENTS | |
|---|---|
| 123A90-DDL-PP-RE-70001 | STRESS ANALYSIS REPORT |
| 123A90-DDL-PR-PID-80027 | P&ID |
| 123A90-DDL-MAT-SP-60003 | INSULATION SPECIFICATION |
| 123A90-DDL-MAT-SP-60006 | COATING & PAINTING SPEC. |
| 123A90-DDL-PP-00-72000 | PIPING SUPPORT BOOK |
| 123A90-DDL-PP-SP-70029 | PIPING MATERIAL CLASS |

SYMBOLS LEGEND:
BUTT WELD · THREADED · HEAT TRACING · SOCKET · PIPE SUPPORT · INSULATED

| NDT EXAMINATION | | | |
|---|---|---|---|
| NDT TYPE | % | NDT TYPE | % |
| RT | 10 | VT | 100 |
| INSPECTION CATEGORY | 2 | MT/PT | 10 |
| TESTING | | | |
| TEST FLUID | | TEST PRESS. (barg) | |
| Water | | 18 | |
| PROCESS LINE DATA | | | |
| DESIGN TEMP. (°C) | | DESIGN PRESS. (barg) | |
| -29 | 100 | | 12 |

| INSULATION & PAINTING | | |
|---|---|---|
| INS. TYPE | INS. THK. | INS. SURF. (m²) |
| N | | |
| PAINT SYS. | BASE RAL | PAINT. SURF. (m²) |
| 6A | RAL 9002 | see sh.1 |
| HEAT TRACING | | |
| - | | |
| LINE DATA | | |
| STRESS SYS. | PED CAT. | PWHT |
| - | Art. 4, par. 3 | No |

| Revision Number | Date | Description | Prepared by | Checked by | Approved by |
|---|---|---|---|---|---|
| 02 | 29/09/25 | AS-BUILT (ASB) | SPS | CBO | CGI |
| 01 | 26/07/24 | ACCEPTED FOR CONSTRUCTION | MMA | CBO | DLO |
| 00 | 07/06/24 | ISSUE FOR REVIEW | MMA | CBO | DLO |

ROSETTI MARINO

# CROSSWIND

DWG TYTLE:

## 1-1/2"-IA-108-01SS-N

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK

SCALE N.A.

DRAWN SPS | CHECKED CBO | APPROVED CGI | DATE 29/09/25

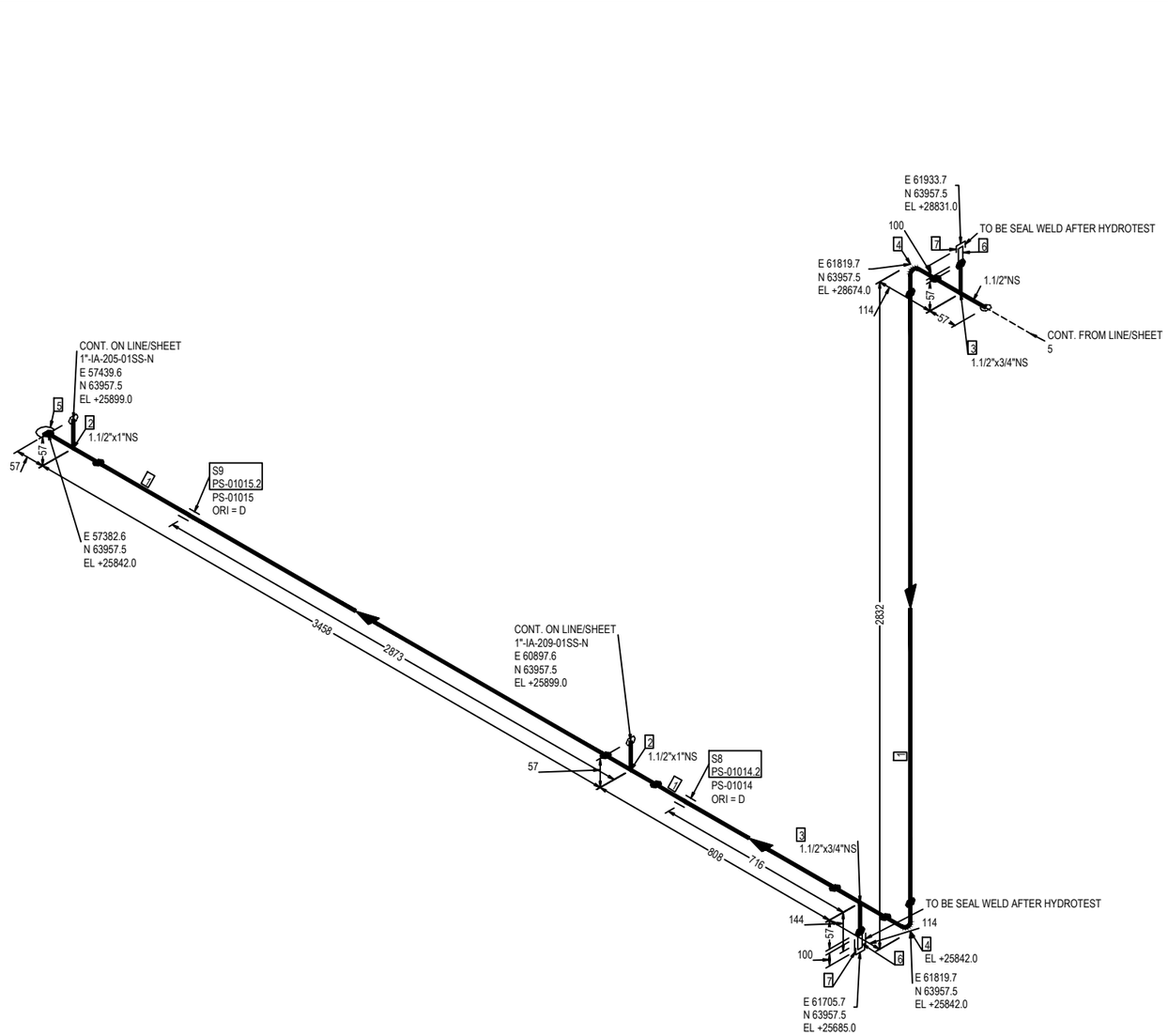
SIZE: A3

DRAWING NO. 123A90-DDL-PP-DI-71000_036

SHEET 6/8

REV. 02

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FABRICATION MATERIALS

| PT NO | COMPONENT DESCRIPTION | N.S. | ITEM CODE | Q.TY | WEIGHT |
|---|---|---|---|---|---|
| 1 | Pipe ASME B36.19M PE 3,68 SML ASTM A312 Gr.TP316/316L | 1.1/2 | PIPESS00531H00 | 6756MM | 27.70 |
| 2 | Tee Reducing ASME B16.9 BW 3,68x3,38 WRS ASTM A403 Gr.WP316/316L | 1.1/2 x 1 | TER0SS01741H01 | 2 | 1.50 |
| 3 | Tee Reducing ASME B16.9 BW 3,68x2,87 WRS ASTM A403 Gr.WP316/316L | 1.1/2 x 3/4 | TER0SS03751H3Q | 2 | 1.50 |
| 4 | 90 Deg Elbow Long Radius ASME B16.9 BW 3,68 WRS ASTM A403 Gr.WP316/316L | 1.1/2 | E90RSS00681H00 | 2 | 0.74 |
| 5 | Cap ASME B16.9 BW 3,68 WRS ASTM A403 Gr.WP316/316L | 1.1/2 | CAP0SS01041H00 | 1 | 0.19 |
| 6 | Nipple L=100mm ASME B36.19M THRD-M NPT x PE 2,87 SML ASTM A312 Gr.TP316/316L | 3/4 | N100SS02653Q00 | 2 | 0.30 |
| | | | TOTAL FABRICATION WEIGHT | | 31.93 |

ERECTION MATERIALS

| PT NO | COMPONENT DESCRIPTION | N.S. | ITEM CODE | Q.TY | WEIGHT |
|---|---|---|---|---|---|
| 7 | Cap Forged ASME B16.11 THRD-F NPT 3000# FRG ASTM A182 Gr.F316/316L | 3/4 | CAPFSS00023Q00 | 2 | 0.38 |
| | SUPPORTS | | | | |
| 8 | /PS-01014.2 | 1.1/2 | | 1 | 0.29 |
| 9 | /PS-01015.2 | 1.1/2 | | 1 | 0.29 |
| | | | TOTAL ERECTION WEIGHT | | 0.96 |
| | | | TOTAL WEIGHT | | 32.89 |

| REFERENCE DOCUMENTS | | NDT EXAMINATION | | | | INSULATION & PAINTING | | |
|---|---|---|---|---|---|---|---|---|
| 123A90-DDL-PP-RE-70001 | STRESS ANALYSIS REPORT | NDT TYPE | % | NDT TYPE | % | INS. TYPE | INS. THK. | INS. SURF. (m²) |
| 123A90-DDL-PR-PID-80027 | P&ID | RT | 10 | VT | 100 | N | | |
| 123A90-DDL-MAT-SP-60003 | INSULATION SPECIFICATION | INSPECTION CATEGORY | 2 | MT/PT | 10 | PAINT SYS. | BASE RAL | PAINT. SURF. (m²) |
| 123A90-DDL-MAT-SP-60006 | COATING & PAINTING SPEC. | TESTING | | | | 6A | RAL 9002 | see sh.1 |
| 123A90-DDL-PP-00-72000 | PIPING SUPPORT BOOK | TEST FLUID | | TEST PRESS. (barg) | | HEAT TRACING | | |
| 123A90-DDL-PP-SP-70029 | PIPING MATERIAL CLASS | Water | | 18 | | - | | |
| SYMBOLS LEGEND: BUTT WELD, THREADED, HEAT TRACING, SOCKET, PIPE SUPPORT, INSULATED | | PROCESS LINE DATA | | | | LINE DATA | | |
| | | DESIGN TEMP. (°C) | | DESIGN PRESS. (barg) | | STRESS SYS. | PED CAT. | PWHT |
| | | -29 | 100 | | 12 | - | Art. 4, par. 3 | No |

| Revision Number | Date | Description | Prepared by | Checked by | Approved by |
|---|---|---|---|---|---|
| 02 | 29/09/25 | AS-BUILT (ASB) | SPS | CBO | CGI |
| 01 | 26/07/24 | ACCEPTED FOR CONSTRUCTION | MMA | CBO | DLO |
| 00 | 07/06/24 | ISSUE FOR REVIEW | MMA | CBO | DLO |

ROSETTI MARINO

CROSSWIND

DWG TYTLE:

# 1-1/2"-IA-108-01SS-N

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK

SCALE N.A.

DRAWN SPS | CHECKED CBO | APPROVED CGI | DATE 29/09/25

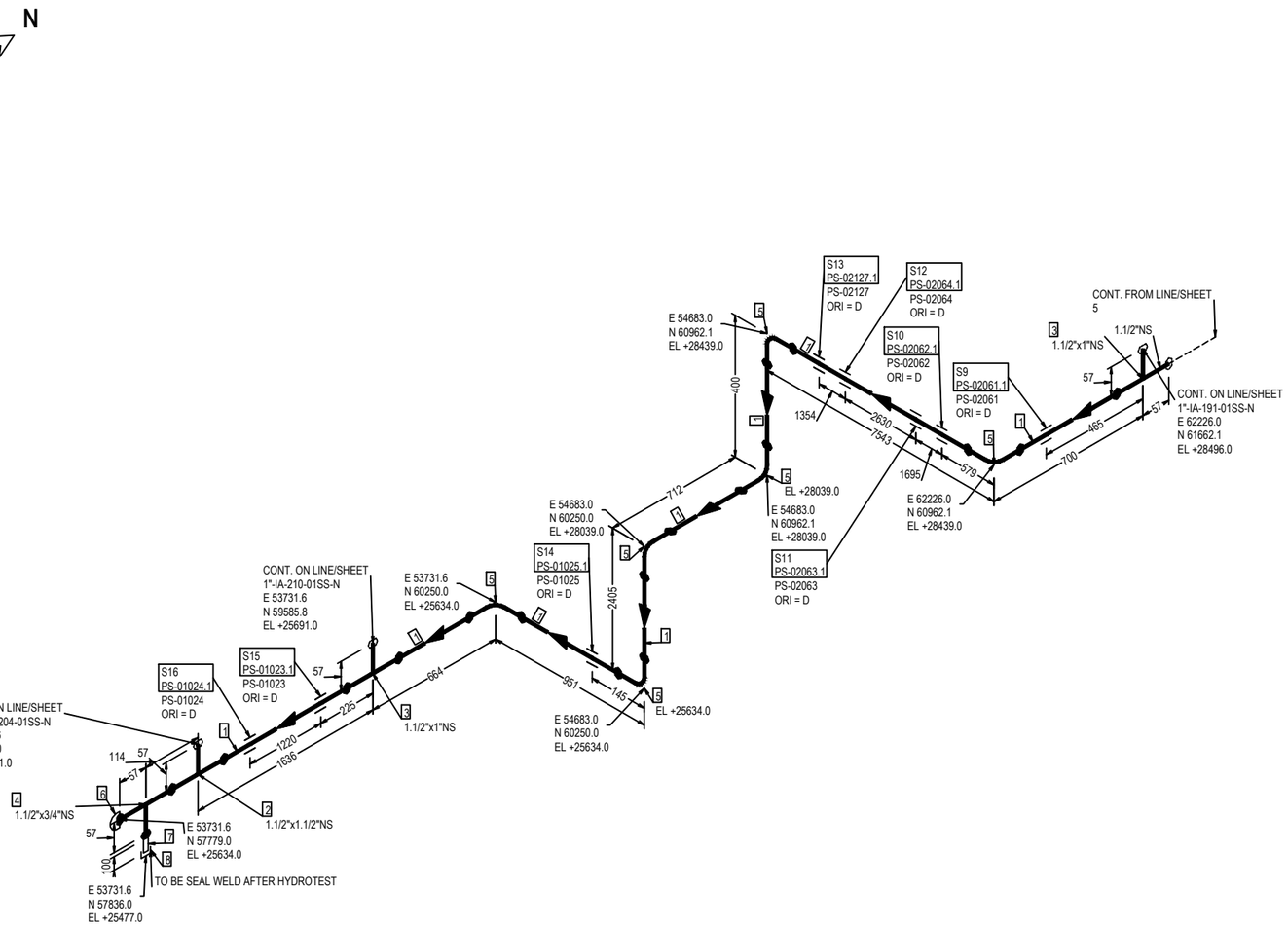
SIZE: A3

DRAWING NO. 123A90-DDL-PP-DI-71000_036

SHEET 7 / 8

REV. 02

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FABRICATION MATERIALS

| PT NO | COMPONENT DESCRIPTION | N.S. | ITEM CODE | Q.TY | WEIGHT |
|---|---|---|---|---|---|
| 1 | Pipe ASME B36.19M PE 3,68 SML ASTM A312 Gr.TP316/316L | 1.1/2 | PIPESS00531H00 | 14099MM | 57.81 |
| 2 | Tee ASME B16.9 BW 3,68 WRS ASTM A403 Gr.WP316/316L | 1.1/2 x 1.1/2 | TEE0SS00561H00 | 1 | 0.82 |
| 3 | Tee Reducing ASME B16.9 BW 3,68x3,38 WRS ASTM A403 Gr.WP316/316L | 1.1/2 x 1 | TER0SS01741H01 | 2 | 1.50 |
| 4 | Tee Reducing ASME B16.9 BW 3,68x2,87 WRS ASTM A403 Gr.WP316/316L | 1.1/2 x 3/4 | TER0SS03751H3Q | 1 | 0.75 |
| 5 | 90 Deg Elbow Long Radius ASME B16.9 BW 3,68 WRS ASTM A403 Gr.WP316/316L | 1.1/2 | E90RSS00681H00 | 6 | 2.22 |
| 6 | Cap ASME B16.9 BW 3,68 WRS ASTM A403 Gr.WP316/316L | 1.1/2 | CAP0SS01041H00 | 1 | 0.19 |
| 7 | Nipple L=100mm ASME B36.19M THRD-M NPT x PE 2,87 SML ASTM A312 Gr.TP316/316L | 3/4 | N100SS02653Q00 | 1 | 0.15 |
| | | | TOTAL FABRICATION WEIGHT | | 63.44 |

ERECTION MATERIALS

| PT NO | COMPONENT DESCRIPTION | N.S. | ITEM CODE | Q.TY | WEIGHT |
|---|---|---|---|---|---|
| 8 | Cap Forged ASME B16.11 THRD-F NPT 3000# FRG ASTM A182 Gr.F316/316L | 3/4 | CAPFSS00023Q00 | 1 | 0.19 |
| | SUPPORTS | | | | |
| 9 | /PS-02061.1 | 1.1/2 | | 1 | 0.29 |
| 10 | /PS-02062.1 | 1.1/2 | | 1 | 0.29 |
| 11 | /PS-02063.1 | 1.1/2 | | 1 | 0.29 |
| 12 | /PS-02064.1 | 1.1/2 | | 1 | 0.29 |
| 13 | /PS-02127.1 | 1.1/2 | | 1 | 0.29 |
| 14 | /PS-01025.1 | 1.1/2 | | 1 | 0.29 |
| 15 | /PS-01023.1 | 1.1/2 | | 1 | 0.29 |
| 16 | /PS-01024.1 | 1.1/2 | | 1 | 0.29 |
| | | | TOTAL ERECTION WEIGHT | | 2.51 |
| | | | TOTAL WEIGHT | | 65.95 |

| REFERENCE DOCUMENTS | |
|---|---|
| 123A90-DDL-PP-RE-70001 | STRESS ANALYSIS REPORT |
| 123A90-DDL-PR-PID-80027 | P&ID |
| 123A90-DDL-MAT-SP-60003 | INSULATION SPECIFICATION |
| 123A90-DDL-MAT-SP-60006 | COATING & PAINTING SPEC. |
| 123A90-DDL-PP-00-72000 | PIPING SUPPORT BOOK |
| 123A90-DDL-PP-SP-70029 | PIPING MATERIAL CLASS |

SYMBOLS LEGEND:
BUTT WELD · THREADED · HEAT TRACING · SOCKET · PIPE SUPPORT · INSULATED

| NDT EXAMINATION | | | |
|---|---|---|---|
| NDT TYPE | % | NDT TYPE | % |
| RT | 10 | VT | 100 |
| INSPECTION CATEGORY | 2 | MT/PT | 10 |
| TESTING | | | |
| TEST FLUID | | TEST PRESS. [barg] | |
| Water | | 18 | |
| PROCESS LINE DATA | | | |
| DESIGN TEMP. [°C] | | DESIGN PRESS. [barg] | |
| -29 | 100 | | 12 |

| INSULATION & PAINTING | | |
|---|---|---|
| INS. TYPE | INS. THK. | INS. SURF. [m²] |
| N | | |
| PAINT SYS. | BASE RAL | PAINT. SURF. [m²] |
| 6A | RAL 9002 | see sh.1 |
| HEAT TRACING | | |
| - | | |
| LINE DATA | | |
| STRESS SYS. | PED CAT. | PWHT |
| - | Art. 4, par. 3 | No |

| Revision Number | Date | Description | Prepared by | Checked by | Approved by |
|---|---|---|---|---|---|
| 02 | 29/09/25 | AS-BUILT (ASB) | SPS | CBO | CGI |
| 01 | 26/07/24 | ACCEPTED FOR CONSTRUCTION | MMA | CBO | DLO |
| 00 | 07/06/24 | ISSUE FOR REVIEW | MMA | CBO | DLO |

ROSETTI MARINO

# CROSSWIND

DWG TYTLE:

## 1-1/2"-IA-108-01SS-N

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK

SCALE N.A.

DRAWN SPS | CHECKED CBO | APPROVED CGI | DATE 29/09/25

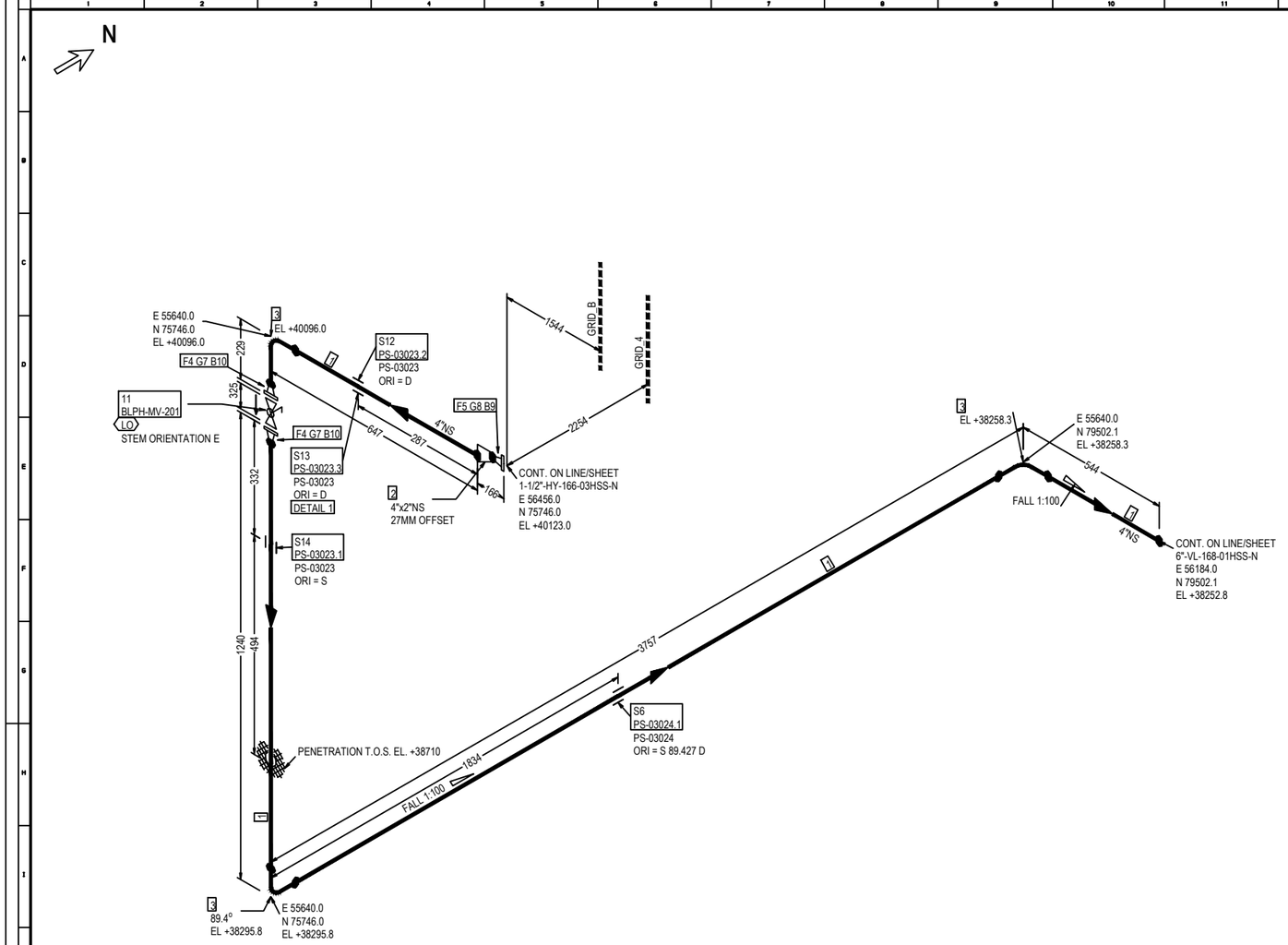
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DRAWING NO. 123A90-DDL-PP-DI-71000_036

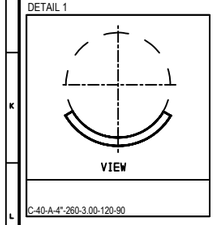
SHEET 8/8

REV. 02

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DETAIL 1




FABRICATION MATERIALS

| PT NO | COMPONENT DESCRIPTION | N.S. | ITEM CODE | Q.TY | WEIGHT |
|---|---|---|---|---|---|
| 1 | Pipe ASME B36.19M PE 3,05 SML ASTM A312 Gr.TP316/316L | 4 | PIPESS00560400 | 5353MM | 45.50 |
| 2 | Reducer Eccentric ASME B16.9 BW 3,05x2,77 WRS ASTM A403 Gr.WP316/316L | 4 x 2 | REE0SS02470402 | 1 | 0.84 |
| 3 | 90 Deg Elbow Long Radius ASME B16.9 BW 3,05 WRS ASTM A403 Gr.WP316/316L | 4 | E90RSS01020400 | 3 | 6.03 |
| 4 | Flange WN ASME B16.5 150LB RF 3,05 FRG ASTM A182 Gr.F316/316L | 4 | FLW0SS00880400 | 2 | 13.80 |
| 5 | Flange WN ASME B16.5 150LB RF 2,77 FRG ASTM A182 Gr.F316/316L | 2 | FLW0SS00010200 | 1 | 2.74 |
| | SUPPORTS | | | | |
| 6 | /PS-03024.1 | 4 | | 1 | 0.67 |
| | | | | TOTAL FABRICATION WEIGHT | 69.58 |

ERECTION MATERIALS

| PT NO | COMPONENT DESCRIPTION | N.S. | ITEM CODE | Q.TY | WEIGHT |
|---|---|---|---|---|---|
| 7 | Gasket Spiral Wound Thk. 3.2 mm ASME B16.20 150LB RF GSK AISI 316 + GRAPHITE c/w INNER RING | 4 | GSW0GK11150400 | 2 | 0.48 |
| 8 | Gasket Spiral Wound Thk. 3.2 mm ASME B16.20 150LB RF GSK AISI 316 + GRAPHITE c/w INNER RING | 2 | GSW0GK11130200 | 1 | 0.10 |
| 9 | 85 Stud Bolt + 2 Heavy Nuts ASME B1.1 ASTM A193 Gr.B7 - A194 Gr.2H Hot dip galvanized | 5/8 | SB20BO00660300 | 4 | 0.96 |
| 10 | 90 Stud Bolt + 2 Heavy Nuts ASME B1.1 ASTM A193 Gr.B7 - A194 Gr.2H Hot dip galvanized | 5/8 | SB20BO04190300 | 16 | 4.00 |
| 11 | Block & Bleed Valve API 6D FLG 150LB RF BA01C01RFHS | 4 | VLBLNN01450400 | 1 | 80.00 |
| | SUPPORTS | | | | |
| 12 | /PS-03023.2 | 4 | | 1 | 0.39 |
| 13 | /PS-03023.3 | 4 | | 1 | 0.75 |
| 14 | /PS-03023.1 | 4 | | 1 | 0.67 |
| | | | | TOTAL ERECTION WEIGHT | 87.35 |
| | | | | TOTAL WEIGHT | 156.93 |

| REFERENCE DOCUMENTS | | NDT EXAMINATION | | | | INSULATION & PAINTING | | | Rev. | Date | Description | Prepared by | Checked by | Approved by |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 123A90-DDL-PP-RE-70001 | STRESS ANALYSIS REPORT | NDT TYPE | % | NDT TYPE | % | INS. TYPE | INS. THK. | INS. SURF. (m²) | | | | | | |
| 123A90-DDL-PR-PID-80016 | P&ID | RT | 100 | VT | 100 | N | | | | | | | | |
| 123A90-DDL-MAT-SP-60003 | INSULATION SPECIFICATION | INSPECTION CATEGORY | 1 | MT/PT | 100 | PAINT SYS. | BASE RAL | PAINT. SURF. (m²) | | | | | | |
| 123A90-DDL-MAT-SP-60006 | COATING & PAINTING SPEC. | TESTING | | | | 6A | RAL 9002 | 2.41 | | | | | | |
| 123A90-DDL-PP-00-72000 | PIPING SUPPORT BOOK | TEST FLUID | | TEST PRESS. (barg) | | HEAT TRACING | | | | | | | | |
| 123A90-DDL-PP-SP-70029 | PIPING MATERIAL CLASS | Water | | 5.25 | | - | | | 02 | 29/09/25 | AS-BUILT (ASB) | SPS | CBO | CGI |
| SYMBOLS LEGEND: | | PROCESS LINE DATA | | | | LINE DATA | | | 01 | 26/07/24 | ACCEPTED FOR CONSTRUCTION | MMA | CBO | DLO |
| BUTT WELD THREADED HEAT TRACING | | DESIGN TEMP. (°C) | | DESIGN PRESS. (barg) | | STRESS SYS. | PED CAT. | PWHT | 00 | 07/06/24 | ISSUE FOR REVIEW | MMA | CBO | DLO |
| SOCKET PIPE SUPPORT INSULATED | | -29 | 100 | | 3.5 | 01 | II | No | | | | | | |

ROSETTI MARINO

# CROSSWIND

DWG TYTLE:

## 4"-VL-111-01HSS-N

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK

SCALE N.A.

DRAWN SPS | CHECKED CBO | APPROVED CGI | DATE 29/09/25

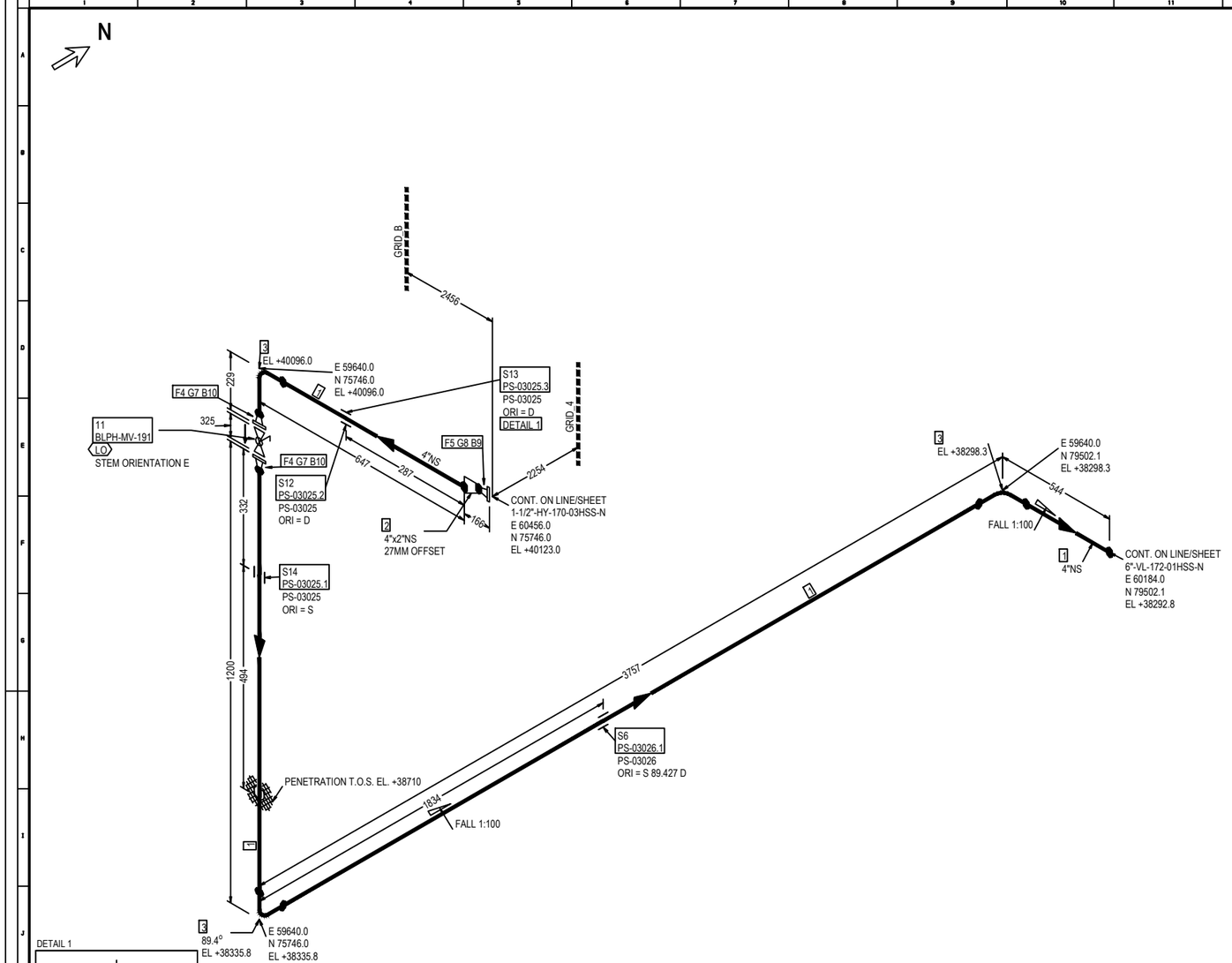
SIZE: A3

DRAWING NO. 123A90-DDL-PP-DI-71000_037

SHEET 1/1

REV. 02

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FABRICATION MATERIALS

| PT NO | COMPONENT DESCRIPTION | N.S. | ITEM CODE | Q.TY | WEIGHT |
|---|---|---|---|---|---|
| 1 | Pipe ASME B36.19M PE 3,05 SML ASTM A312 Gr.TP316/316L | 4 | PIPESS00560400 | 5313MM | 45.16 |
| 2 | Reducer Eccentric ASME B16.9 BW 3,05x2,77 WRS ASTM A403 Gr.WP316/316L | 4 x 2 | REE0SS02470402 | 1 | 0.84 |
| 3 | 90 Deg Elbow Long Radius ASME B16.9 BW 3,05 WRS ASTM A403 Gr.WP316/316L | 4 | E90RSS01020400 | 3 | 6.03 |
| 4 | Flange WN ASME B16.5 150LB RF 3,05 FRG ASTM A182 Gr.F316/316L | 4 | FLW0SS00880400 | 2 | 13.80 |
| 5 | Flange WN ASME B16.5 150LB RF 2,77 FRG ASTM A182 Gr.F316/316L | 2 | FLW0SS00010200 | 1 | 2.74 |
| | SUPPORTS | | | | |
| 6 | /PS-03026.1 | 4 | | 1 | 0.67 |
| | | | | TOTAL FABRICATION WEIGHT | 69.24 |

ERECTION MATERIALS

| PT NO | COMPONENT DESCRIPTION | N.S. | ITEM CODE | Q.TY | WEIGHT |
|---|---|---|---|---|---|
| 7 | Gasket Spiral Wound Thk. 3.2 mm ASME B16.20 150LB RF GSK AISI 316 + GRAPHITE c/w INNER RING | 4 | GSW0GK11150400 | 2 | 0.48 |
| 8 | Gasket Spiral Wound Thk. 3.2 mm ASME B16.20 150LB RF GSK AISI 316 + GRAPHITE c/w INNER RING | 2 | GSW0GK11130200 | 1 | 0.10 |
| 9 | 85 Stud Bolt + 2 Heavy Nuts ASME B1.1 ASTM A193 Gr.B7 - A194 Gr.2H Hot dip galvanized | 5/8 | SB20BO00660300 | 4 | 0.96 |
| 10 | 90 Stud Bolt + 2 Heavy Nuts ASME B1.1 ASTM A193 Gr.B7 - A194 Gr.2H Hot dip galvanized | 5/8 | SB20BO04190300 | 16 | 4.00 |
| 11 | Block & Bleed Valve API 6D FLG 150LB RF BA01C01RFHS | 4 | VLBLNN01450400 | 1 | 80.00 |
| | SUPPORTS | | | | |
| 12 | /PS-03025.2 | 4 | | 1 | 0.39 |
| 13 | /PS-03025.3 | 4 | | 1 | 0.75 |
| 14 | /PS-03025.1 | 4 | | 1 | 0.67 |
| | | | | TOTAL ERECTION WEIGHT | 87.35 |
| | | | | TOTAL WEIGHT | 156.59 |

| REFERENCE DOCUMENTS | |
|---|---|
| 123A90-DDL-PP-RE-70001 | STRESS ANALYSIS REPORT |
| 123A90-DDL-PR-PID-80017 | P&ID |
| 123A90-DDL-MAT-SP-60003 | INSULATION SPECIFICATION |
| 123A90-DDL-MAT-SP-60006 | COATING & PAINTING SPEC. |
| 123A90-DDL-PP-00-72000 | PIPING SUPPORT BOOK |
| 123A90-DDL-PP-SP-70029 | PIPING MATERIAL CLASS |

SYMBOLS LEGEND:
BUTT WELD · THREADED · HEAT TRACING · SOCKET · PIPE SUPPORT · INSULATED

| NDT EXAMINATION | | | |
|---|---|---|---|
| NDT TYPE | % | NDT TYPE | % |
| RT | 100 | VT | 100 |
| INSPECTION CATEGORY | 1 | MT/PT | 100 |
| TESTING | | | |
| TEST FLUID | | TEST PRESS. [barg] | |
| Water | | 5.25 | |

| PROCESS LINE DATA | | | |
|---|---|---|---|
| DESIGN TEMP. [°C] | | DESIGN PRESS. [barg] | |
| -29 | 100 | | 3.5 |

| INSULATION & PAINTING | | |
|---|---|---|
| INS. TYPE | INS. THK. | INS. SURF. [m²] |
| N | | |
| PAINT SYS. | BASE RAL | PAINT. SURF. [m²] |
| 6A | RAL 9002 | 2.40 |
| HEAT TRACING | | |
| - | | |

| LINE DATA | | |
|---|---|---|
| STRESS SYS. | PED CAT. | PWHT |
| 01 | II | No |

| Revision Number | Date | Description | Prepared by | Checked by | Approved by |
|---|---|---|---|---|---|
| 02 | 29/09/25 | AS-BUILT (ASB) | SPS | CBO | CGI |
| 01 | 26/07/24 | ACCEPTED FOR CONSTRUCTION | MMA | CBO | DLO |
| 00 | 07/06/24 | ISSUE FOR REVIEW | MMA | CBO | DLO |

ROSETTI MARINO

# CROSSWIND

DWG TYTLE:

## 4"-VL-112-01HSS-N

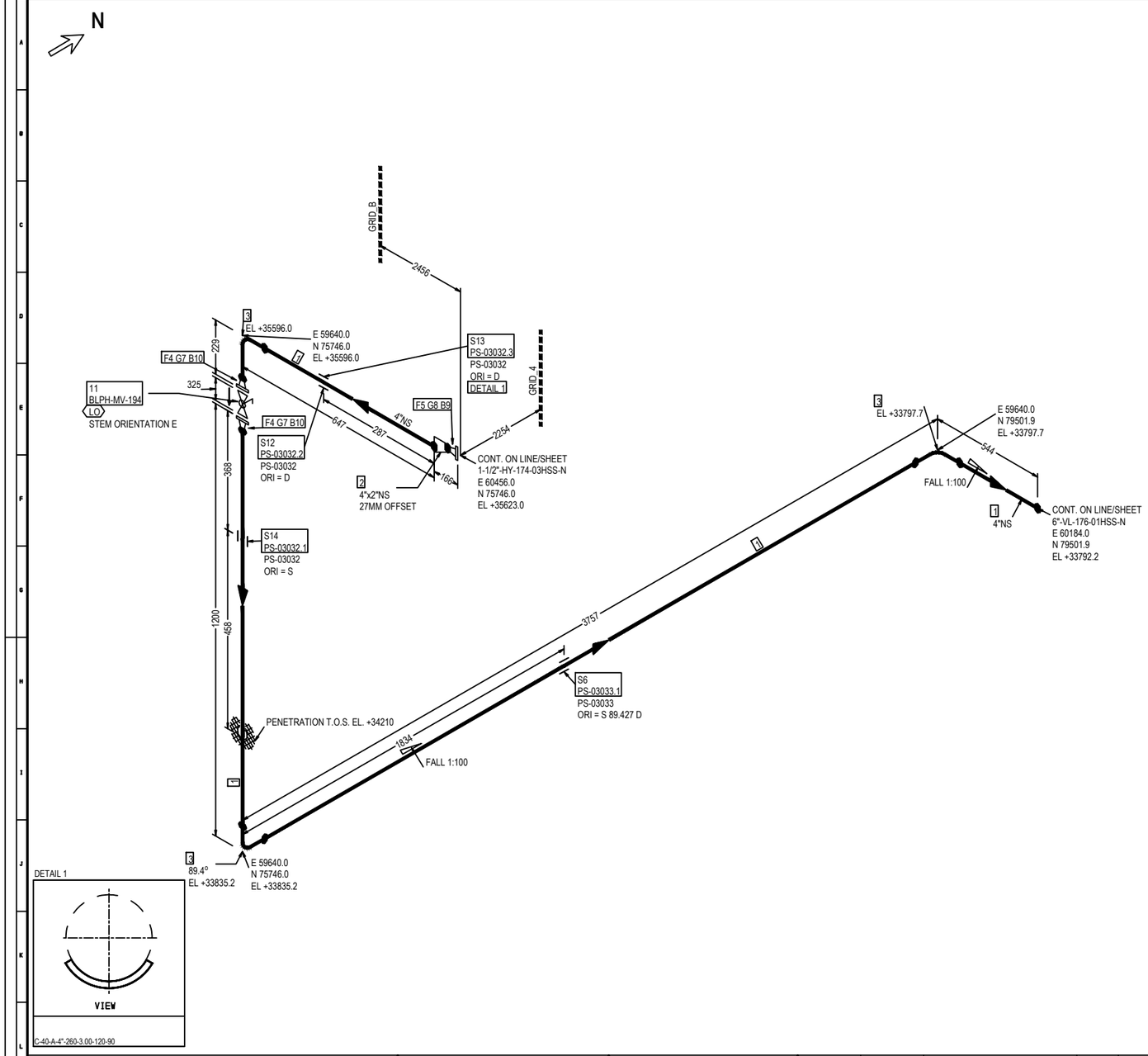
CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK

SCALE N.A.

| DRAWN | CHECKED | APPROVED | DATE |
|---|---|---|---|
| SPS | CBO | CGI | 29/09/25 |

| SIZE: | DRAWING NO. | SHEET | REV. |
|---|---|---|---|
| A3 | 123A90-DDL-PP-DI-71000_038 | 1 / 1 | 02 |

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FABRICATION MATERIALS

| PT NO | COMPONENT DESCRIPTION | N.S. | ITEM CODE | Q.TY | WEIGHT |
|---|---|---|---|---|---|
| 1 | Pipe ASME B36.19M PE 3,05 SML ASTM A312 Gr.TP316/316L | 4 | PIPESS00560400 | 5314MM | 45.17 |
| 2 | Reducer Eccentric ASME B16.9 BW 3,05x2,77 WRS ASTM A403 Gr.WP316/316L | 4 x 2 | REE0SS02470402 | 1 | 0.84 |
| 3 | 90 Deg Elbow Long Radius ASME B16.9 BW 3,05 WRS ASTM A403 Gr.WP316/316L | 4 | E90RSS01020400 | 3 | 6.03 |
| 4 | Flange WN ASME B16.5 150LB RF 3,05 FRG ASTM A182 Gr.F316/316L | 4 | FLW0SS00880400 | 2 | 13.80 |
| 5 | Flange WN ASME B16.5 150LB RF 2,77 FRG ASTM A182 Gr.F316/316L | 2 | FLW0SS00010200 | 1 | 2.74 |
| | SUPPORTS | | | | |
| 6 | /PS-03033.1 | 4 | | 1 | 0.67 |
| | | | | TOTAL FABRICATION WEIGHT | 69.25 |

ERECTION MATERIALS

| PT NO | COMPONENT DESCRIPTION | N.S. | ITEM CODE | Q.TY | WEIGHT |
|---|---|---|---|---|---|
| 7 | Gasket Spiral Wound Thk. 3.2 mm ASME B16.20 150LB RF GSK AISI 316 + GRAPHITE c/w INNER RING | 4 | GSW0GK11150400 | 2 | 0.48 |
| 8 | Gasket Spiral Wound Thk. 3.2 mm ASME B16.20 150LB RF GSK AISI 316 + GRAPHITE c/w INNER RING | 2 | GSW0GK11130200 | 1 | 0.10 |
| 9 | 85 Stud Bolt + 2 Heavy Nuts ASME B1.1 ASTM A193 Gr.B7 - A194 Gr.2H Hot dip galvanized | 5/8 | SB20BO00660300 | 4 | 0.96 |
| 10 | 90 Stud Bolt + 2 Heavy Nuts ASME B1.1 ASTM A193 Gr.B7 - A194 Gr.2H Hot dip galvanized | 5/8 | SB20BO04190300 | 16 | 4.00 |
| 11 | Block & Bleed Valve API 6D FLG 150LB RF BA01C01RFHS | 4 | VLBLNN01450400 | 1 | 80.00 |
| | SUPPORTS | | | | |
| 12 | /PS-03032.2 | 4 | | 1 | 0.39 |
| 13 | /PS-03032.3 | 4 | | 1 | 0.75 |
| 14 | /PS-03032.1 | 4 | | 1 | 0.67 |
| | | | | TOTAL ERECTION WEIGHT | 87.35 |
| | | | | TOTAL WEIGHT | 156.60 |

| REFERENCE DOCUMENTS | |
|---|---|
| 123A90-DDL-PP-RE-70001 | STRESS ANALYSIS REPORT |
| 123A90-DDL-PR-PID-80018 | P&ID |
| 123A90-DDL-MAT-SP-60003 | INSULATION SPECIFICATION |
| 123A90-DDL-MAT-SP-60006 | COATING & PAINTING SPEC. |
| 123A90-DDL-PP-00-72000 | PIPING SUPPORT BOOK |
| 123A90-DDL-PP-SP-70029 | PIPING MATERIAL CLASS |

SYMBOLS LEGEND:
BUTT WELD · THREADED · HEAT TRACING · SOCKET · PIPE SUPPORT · INSULATED

| NDT EXAMINATION | | | | INSULATION & PAINTING | | | PROCESS LINE DATA | | | LINE DATA | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NDT TYPE | % | NDT TYPE | % | INS. TYPE | INS. THK. | INS. SURF. (m²) | DESIGN TEMP. (°C) | | DESIGN PRESS. (barg) | STRESS SYS. | PED CAT. | PWHT |
| RT | 100 | VT | 100 | N | | | -29 | 100 | 3.5 | 01 | II | No |
| INSPECTION CATEGORY | 1 | MT/PT | 100 | PAINT SYS. | BASE RAL | PAINT. SURF. (m²) | | | | | | |
| TESTING | | | | 6A | RAL 9002 | 2.38 | | | | | | |
| TEST FLUID | | TEST PRESS. (barg) | | HEAT TRACING | | | | | | | | |
| Water | | 5.25 | | - | | | | | | | | |

| Revision Number | Date | Description | Prepared by | Checked by | Approved by |
|---|---|---|---|---|---|
| 02 | 29/09/25 | AS-BUILT (ASB) | SPS | CBO | CGI |
| 01 | 26/07/24 | ACCEPTED FOR CONSTRUCTION | MMA | CBO | DLO |
| 00 | 07/06/24 | ISSUE FOR REVIEW | MMA | CBO | DLO |

ROSETTI MARINO

# CROSSWIND

DWG TYTLE:

## 4"-VL-113-01HSS-N

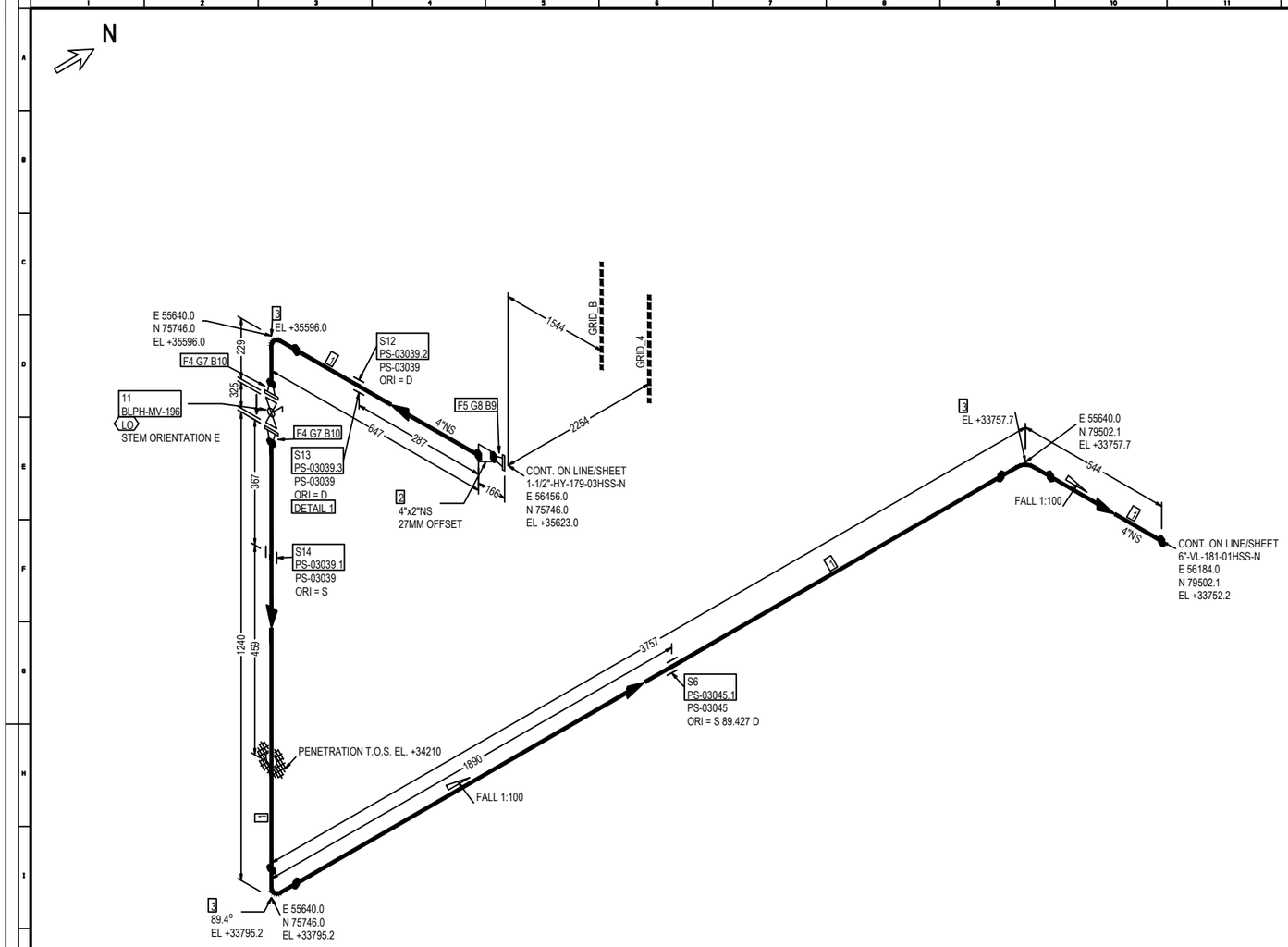
CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK

SCALE N.A.

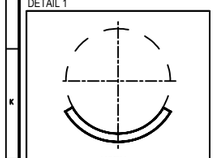
DRAWN SPS | CHECKED CBO | APPROVED CGI | DATE 29/09/25

SIZE: A3 | DRAWING NO. 123A90-DDL-PP-DI-71000_039 | SHEET 1/1 | REV. 02

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DETAIL 1




C-40-A-4"-260-3.00-120-90

FABRICATION MATERIALS

| PT NO | COMPONENT DESCRIPTION | N.S. | ITEM CODE | Q.TY | WEIGHT |
|---|---|---|---|---|---|
| 1 | Pipe ASME B36.19M PE 3,05 SML ASTM A312 Gr.TP316/316L | 4 | PIPESS00560400 | 5354MM | 45.51 |
| 2 | Reducer Eccentric ASME B16.9 BW 3,05x2,77 WRS ASTM A403 Gr.WP316/316L | 4 x 2 | REE0SS02470402 | 1 | 0.84 |
| 3 | 90 Deg Elbow Long Radius ASME B16.9 BW 3,05 WRS ASTM A403 Gr.WP316/316L | 4 | E90RSS01020400 | 3 | 6.03 |
| 4 | Flange WN ASME B16.5 150LB RF 3,05 FRG ASTM A182 Gr.F316/316L | 4 | FLW0SS00880400 | 2 | 13.80 |
| 5 | Flange WN ASME B16.5 150LB RF 2,77 FRG ASTM A182 Gr.F316/316L | 2 | FLW0SS00010200 | 1 | 2.74 |
| | SUPPORTS | | | | |
| 6 | /PS-03045.1 | 4 | | 1 | 0.67 |
| | | | TOTAL FABRICATION WEIGHT | | 69.59 |

ERECTION MATERIALS

| PT NO | COMPONENT DESCRIPTION | N.S. | ITEM CODE | Q.TY | WEIGHT |
|---|---|---|---|---|---|
| 7 | Gasket Spiral Wound Thk. 3.2 mm ASME B16.20 150LB RF GSK AISI 316 + GRAPHITE c/w INNER RING | 4 | GSW0GK11150400 | 2 | 0.48 |
| 8 | Gasket Spiral Wound Thk. 3.2 mm ASME B16.20 150LB RF GSK AISI 316 + GRAPHITE c/w INNER RING | 2 | GSW0GK11130200 | 1 | 0.10 |
| 9 | 85 Stud Bolt + 2 Heavy Nuts ASME B1.1 ASTM A193 Gr.B7 - A194 Gr.2H Hot dip galvanized | 5/8 | SB20BO00660300 | 4 | 0.96 |
| 10 | 90 Stud Bolt + 2 Heavy Nuts ASME B1.1 ASTM A193 Gr.B7 - A194 Gr.2H Hot dip galvanized | 5/8 | SB20BO04190300 | 16 | 4.00 |
| 11 | Block & Bleed Valve API 6D FLG 150LB RF BA01C01RFHS | 4 | VLBLNN01450400 | 1 | 80.00 |
| | SUPPORTS | | | | |
| 12 | /PS-03039.2 | 4 | | 1 | 0.39 |
| 13 | /PS-03039.3 | 4 | | 1 | 0.75 |
| 14 | /PS-03039.1 | 4 | | 1 | 0.67 |
| | | | TOTAL ERECTION WEIGHT | | 87.35 |
| | | | TOTAL WEIGHT | | 156.94 |

| REFERENCE DOCUMENTS | |
|---|---|
| 123A90-DDL-PP-RE-70001 | STRESS ANALYSIS REPORT |
| 123A90-DDL-PR-PID-80019 | P&ID |
| 123A90-DDL-MAT-SP-60003 | INSULATION SPECIFICATION |
| 123A90-DDL-MAT-SP-60006 | COATING & PAINTING SPEC. |
| 123A90-DDL-PP-00-72000 | PIPING SUPPORT BOOK |
| 123A90-DDL-PP-SP-70029 | PIPING MATERIAL CLASS |

SYMBOLS LEGEND:
BUTT WELD · THREADED · HEAT TRACING
SOCKET · PIPE SUPPORT · INSULATED

| NDT EXAMINATION | | | |
|---|---|---|---|
| NDT TYPE | % | NDT TYPE | % |
| RT | 100 | VT | 100 |
| INSPECTION CATEGORY | 1 | MT/PT | 100 |
| TESTING | | | |
| TEST FLUID | | TEST PRESS. [barg] | |
| Water | | 5.25 | |
| PROCESS LINE DATA | | | |
| DESIGN TEMP. [°C] | | DESIGN PRESS. [barg] | |
| -29 | 100 | | 3.5 |

| INSULATION & PAINTING | | |
|---|---|---|
| INS. TYPE | INS. THK. | INS. SURF. [m²] |
| N | | |
| PAINT SYS. | BASE RAL | PAINT. SURF. [m²] |
| 6A | RAL 9002 | 2.40 |
| HEAT TRACING | | |
| - | | |
| LINE DATA | | |
| STRESS SYS. | PED CAT. | PWHT |
| 01 | II | No |

| Revision Number | Date | Description | Prepared by | Checked by | Approved by |
|---|---|---|---|---|---|
| 02 | 29/09/25 | AS-BUILT (ASB) | SPS | CBO | CGI |
| 01 | 26/07/24 | ACCEPTED FOR CONSTRUCTION | MMA | CBO | DLO |
| 00 | 07/06/24 | ISSUE FOR REVIEW | MMA | CBO | DLO |

ROSETTI MARINO

# CROSSWIND

DWG TYTLE:

## 4"-VL-114-01HSS-N

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK

SCALE N.A.

DRAWN SPS | CHECKED CBO | APPROVED CGI | DATE 29/09/25

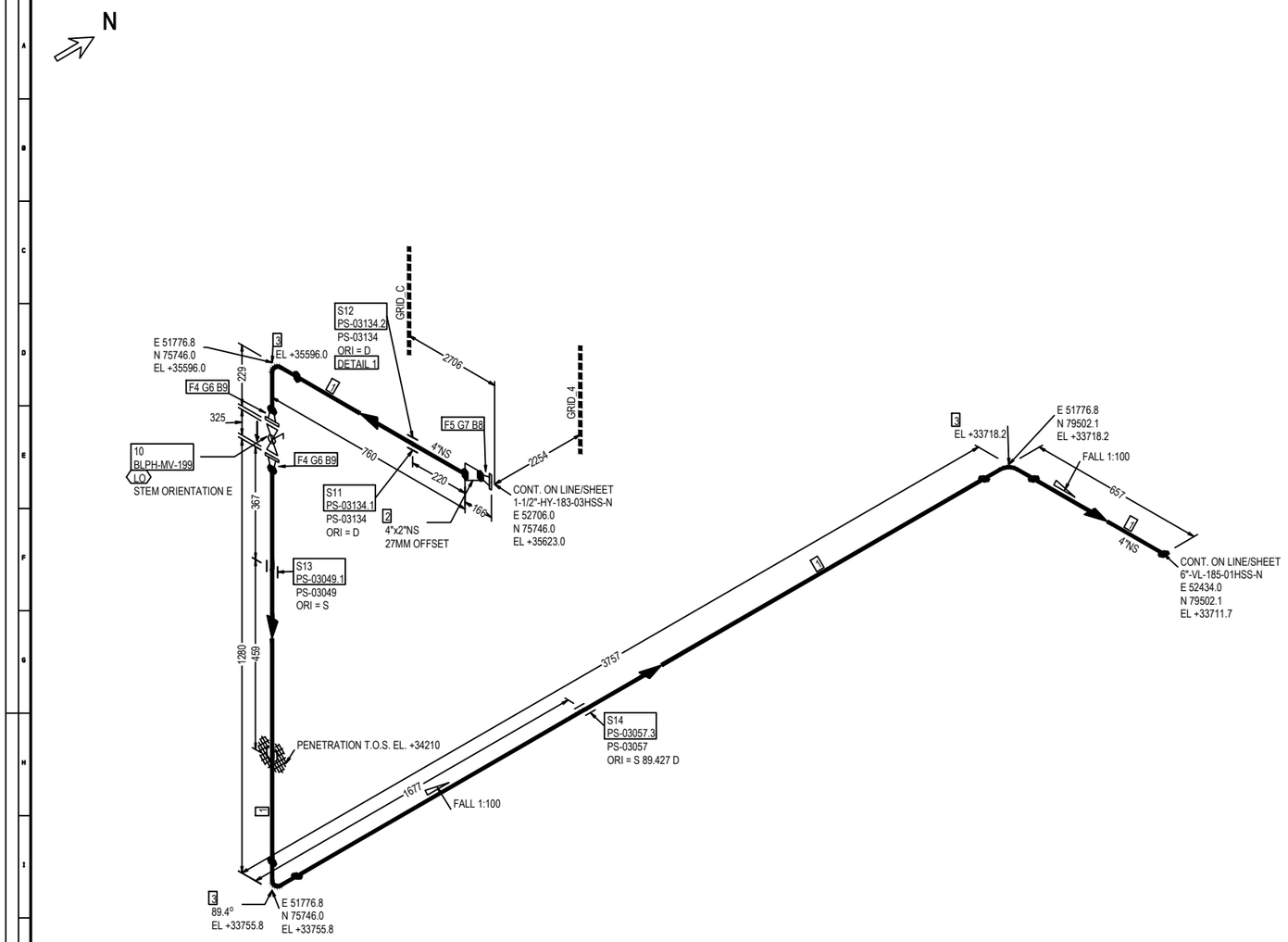
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DRAWING NO. 123A90-DDL-PP-DI-71000_040

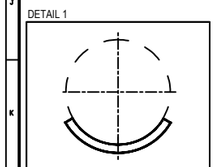
SHEET 1/1

REV. 02

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DETAIL 1




C-40-A-4"-260-3.05-120-90

FABRICATION MATERIALS

| PT NO | COMPONENT DESCRIPTION | N.S. | ITEM CODE | Q.TY | WEIGHT |
|---|---|---|---|---|---|
| 1 | Pipe ASME B36.19M PE 3,05 SML ASTM A312 Gr.TP316/316L | 4 | PIPESS00560400 | 5619MM | 47.76 |
| 2 | Reducer Eccentric ASME B16.9 BW 3,05x2,77 WRS ASTM A403 Gr.WP316/316L | 4 x 2 | REE0SS02470402 | 1 | 0.84 |
| 3 | 90 Deg Elbow Long Radius ASME B16.9 BW 3,05 WRS ASTM A403 Gr.WP316/316L | 4 | E90RSS01020400 | 3 | 6.03 |
| 4 | Flange WN ASME B16.5 150LB RF 3,05 FRG ASTM A182 Gr.F316/316L | 4 | FLW0SS00880400 | 2 | 13.80 |
| 5 | Flange WN ASME B16.5 150LB RF 2,77 FRG ASTM A182 Gr.F316/316L | 2 | FLW0SS00010200 | 1 | 2.74 |
| | | | | TOTAL FABRICATION WEIGHT | 71.17 |

ERECTION MATERIALS

| PT NO | COMPONENT DESCRIPTION | N.S. | ITEM CODE | Q.TY | WEIGHT |
|---|---|---|---|---|---|
| 6 | Gasket Spiral Wound Thk. 3.2 mm ASME B16.20 150LB RF GSK AISI 316 + GRAPHITE c/w INNER RING | 4 | GSW0GK11150400 | 2 | 0.48 |
| 7 | Gasket Spiral Wound Thk. 3.2 mm ASME B16.20 150LB RF GSK AISI 316 + GRAPHITE c/w INNER RING | 2 | GSW0GK11130200 | 1 | 0.10 |
| 8 | 85 Stud Bolt + 2 Heavy Nuts ASME B1.1 ASTM A193 Gr.B7 - A194 Gr.2H Hot dip galvanized | 5/8 | SB20BO00660300 | 4 | 0.96 |
| 9 | 90 Stud Bolt + 2 Heavy Nuts ASME B1.1 ASTM A193 Gr.B7 - A194 Gr.2H Hot dip galvanized | 5/8 | SB20BO04190300 | 16 | 4.00 |
| 10 | Block & Bleed Valve API 6D FLG 150LB RF BA01C01RFHS | 4 | VLBLNN01450400 | 1 | 80.00 |
| | SUPPORTS | | | | |
| 11 | /PS-03134.1 | 4 | | 1 | 0.39 |
| 12 | /PS-03134.2 | 4 | | 1 | 0.77 |
| 13 | /PS-03049.1 | 4 | | 1 | 0.67 |
| 14 | /PS-03057.3 | 4 | | 1 | 0.67 |
| | | | | TOTAL ERECTION WEIGHT | 88.04 |
| | | | | TOTAL WEIGHT | 159.21 |

| REFERENCE DOCUMENTS | |
|---|---|
| 123A90-DDL-PP-RE-70001 | STRESS ANALYSIS REPORT |
| 123A90-DDL-PR-PID-80020 | P&ID |
| 123A90-DDL-MAT-SP-60003 | INSULATION SPECIFICATION |
| 123A90-DDL-MAT-SP-60006 | COATING & PAINTING SPEC. |
| 123A90-DDL-PP-00-72000 | PIPING SUPPORT BOOK |
| 123A90-DDL-PP-SP-70029 | PIPING MATERIAL CLASS |

SYMBOLS LEGEND:
BUTT WELD · THREADED · HEAT TRACING · SOCKET · PIPE SUPPORT · INSULATED

| NDT EXAMINATION | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NDT TYPE | % | NDT TYPE | % | | | | | | | | | | | |
| RT | 100 | VT | 100 | | | | | | | | | | | |
| INSPECTION CATEGORY | 1 | MT/PT | 100 | | | | | | | | | | | |
| TESTING | | | | | | | | | | | | | | |
| TEST FLUID | | TEST PRESS. [barg] | | | | | | | | | | | | |
| Water | | 5.25 | | | | | | | | | | | | |
| PROCESS LINE DATA | | | | | | | | | | | | | | |
| DESIGN TEMP. [°C] | | | | DESIGN PRESS. [barg] | | | | | | | | | | |
| -29 | 100 | | | 3.5 | | | | | | | | | | |

| INSULATION & PAINTING | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| INS. TYPE | INS. THK. | INS. SURF. [m²] | | | | | | | | | | | | |
| N | | | | | | | | | | | | | | |
| PAINT SYS. | BASE RAL | PAINT. SURF. [m²] | | | | | | | | | | | | |
| 6A | RAL 9002 | 2.51 | | | | | | | | | | | | |
| HEAT TRACING | | | | | | | | | | | | | | |
| - | | | | | | | | | | | | | | |
| LINE DATA | | | | | | | | | | | | | | |
| STRESS SYS. | PED CAT. | PWHT | | | | | | | | | | | | |
| 01 | II | No | | | | | | | | | | | | |

| Revision Number | Date | Description | Prepared by | Checked by | Approved by |
|---|---|---|---|---|---|
| 02 | 29/09/25 | AS-BUILT (ASB) | SPS | CBO | CGI |
| 01 | 26/07/24 | ACCEPTED FOR CONSTRUCTION | MMA | CBO | DLO |
| 00 | 07/06/24 | ISSUE FOR REVIEW | MMA | CBO | DLO |

ROSETTI MARINO

# CROSSWIND

DWG TYTLE:

## 4"-VL-115-01HSS-N

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK

SCALE N.A.

DRAWN SPS | CHECKED CBO | APPROVED CGI | DATE 29/09/25

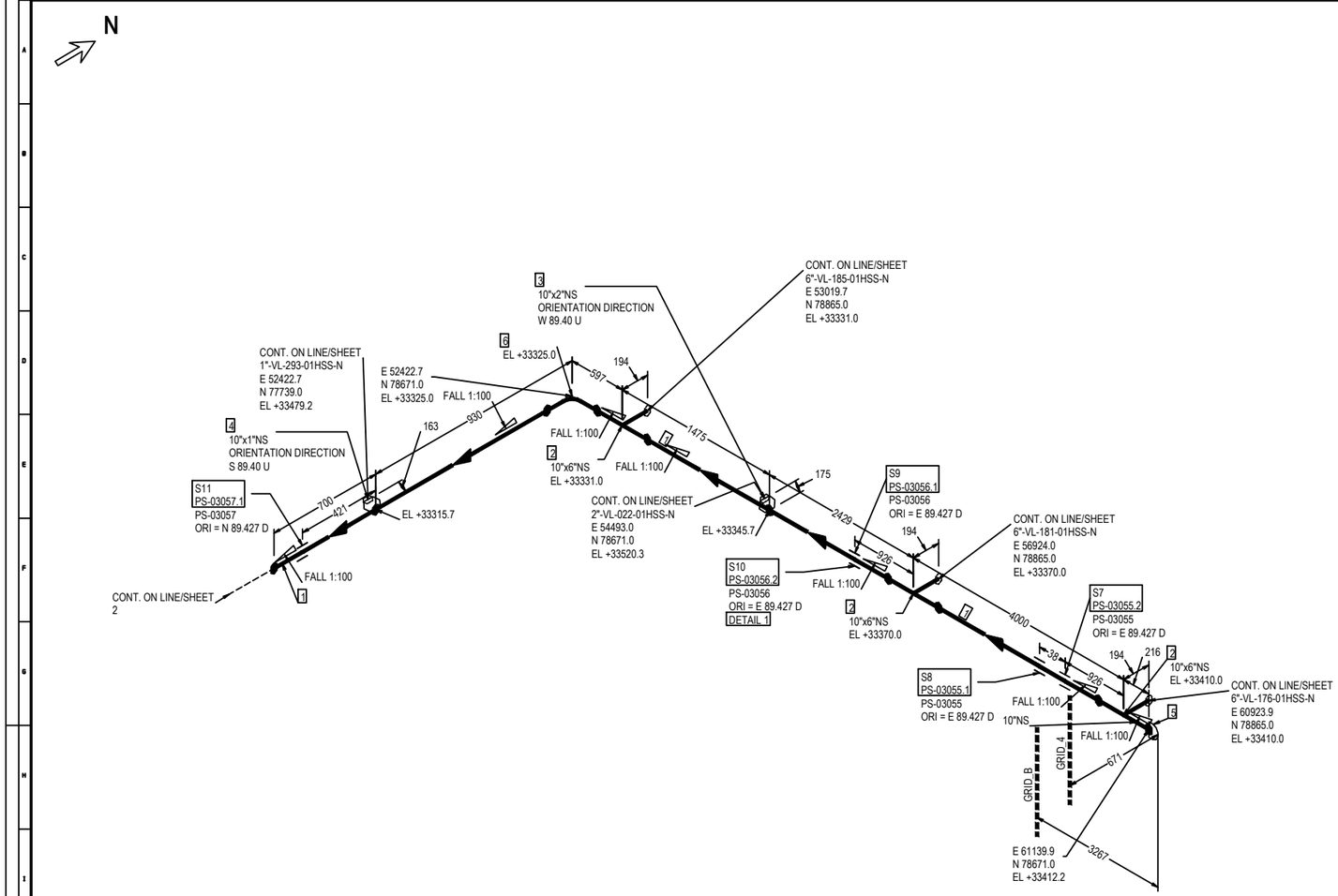
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DRAWING NO. 123A90-DDL-PP-DI-71000_041

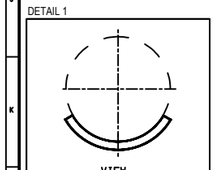
SHEET 1/1

REV. 02

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DETAIL 1




FABRICATION MATERIALS

| PT NO | COMPONENT DESCRIPTION | N.S. | ITEM CODE | Q.TY | WEIGHT |
|---|---|---|---|---|---|
| 1 | Pipe ASME B36.19M PE 4,19 SML ASTM A312 Gr.TP316/316L | 10 | PIPESS01701000 | 8289MM | 233.75 |
| 2 | Tee Reducing ASME B16.9 BW 4,19x3,4 WRS ASTM A403 Gr.WP316/316L | 10 x 6 | TER0SS03441006 | 3 | 56.40 |
| 3 | Weldolet MSS SP-97 BW 4,19x2,77 FRG ASTM A182 Gr.F316/316L | 10 x 2 | OWELSS01971002 | 1 | 0.80 |
| 4 | Weldolet MSS SP-97 BW 4,19x3,38 FRG ASTM A182 Gr.F316/316L | 10 x 1 | OWELSS02441001 | 1 | 0.32 |
| 5 | Cap ASME B16.9 BW 4,19 WRS ASTM A403 Gr.WP316/316L | 10 | CAP0SS00961000 | 1 | 4.59 |
| 6 | 90 Deg Elbow Long Radius ASME B16.9 BW 4,19 WRS ASTM A403 Gr.WP316/316L | 10 | E90RSS01151000 | 1 | 16.97 |
| | SUPPORTS | | | | |
| 7 | /PS-03055.2 | 10 | | 1 | 0.12 |
| 8 | /PS-03055.1 | 10 | | 1 | 3.76 |
| 9 | /PS-03056.1 | 10 | | 1 | 5.78 |
| 10 | /PS-03056.2 | 10 | | 1 | 5.24 |
| 11 | /PS-03057.1 | 10 | | 1 | 0.07 |
| | | | TOTAL FABRICATION WEIGHT | | 327.80 |

| REFERENCE DOCUMENTS | |
|---|---|
| 123A90-DDL-PP-RE-70001 | STRESS ANALYSIS REPORT |
| 123A90-DDL-PR-PID-80028 | P&ID |
| 123A90-DDL-MAT-SP-60003 | INSULATION SPECIFICATION |
| 123A90-DDL-MAT-SP-60006 | COATING & PAINTING SPEC. |
| 123A90-DDL-PP-00-72000 | PIPING SUPPORT BOOK |
| 123A90-DDL-PP-SP-70029 | PIPING MATERIAL CLASS |

SYMBOLS LEGEND:
BUTT WELD · THREADED · HEAT TRACING · SOCKET · PIPE SUPPORT · INSULATED

| NDT EXAMINATION | | | |
|---|---|---|---|
| NDT TYPE | % | NDT TYPE | % |
| RT | 100 | VT | 100 |
| INSPECTION CATEGORY | 1 | MT/PT | 100Ratio |
| TESTING | | | |
| TEST FLUID | | TEST PRESS.(barg) | |
| Water | | 5.25 | |
| PROCESS LINE DATA | | | |
| DESIGN TEMP. (°C) | | DESIGN PRESS.(barg) | |
| -29 | 100 | | 3.5 |

| INSULATION & PAINTING | | |
|---|---|---|
| INS. TYPE | INS. THK. | INS. SURF. (m²) |
| N | | |
| PAINT SYS. | BASE RAL | PAINT. SURF. (m²) |
| 6A | RAL 9002 | 16.66 |
| HEAT TRACING | | |
| - | | |
| LINE DATA | | |
| STRESS SYS. | PED CAT. | PWHT |
| 01 | II | No |

| Revision Number | Date | Description | Prepared by | Checked by | Approved by |
|---|---|---|---|---|---|
| 02 | 29/09/25 | AS-BUILT (ASB) | SPS | CBO | CGI |
| 01 | 12/07/24 | ACCEPTED FOR CONSTRUCTION | MMA | CBO | DLO |
| 00 | 07/06/24 | ISSUE FOR REVIEW | MMA | CBO | DLO |

ROSETTI MARINO

CROSSWIND

DWG TYTLE:

# 10"-VL-116-01HSS-N

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK

SCALE N.A.

DRAWN SPS | CHECKED CBO | APPROVED CGI | DATE 29/09/25

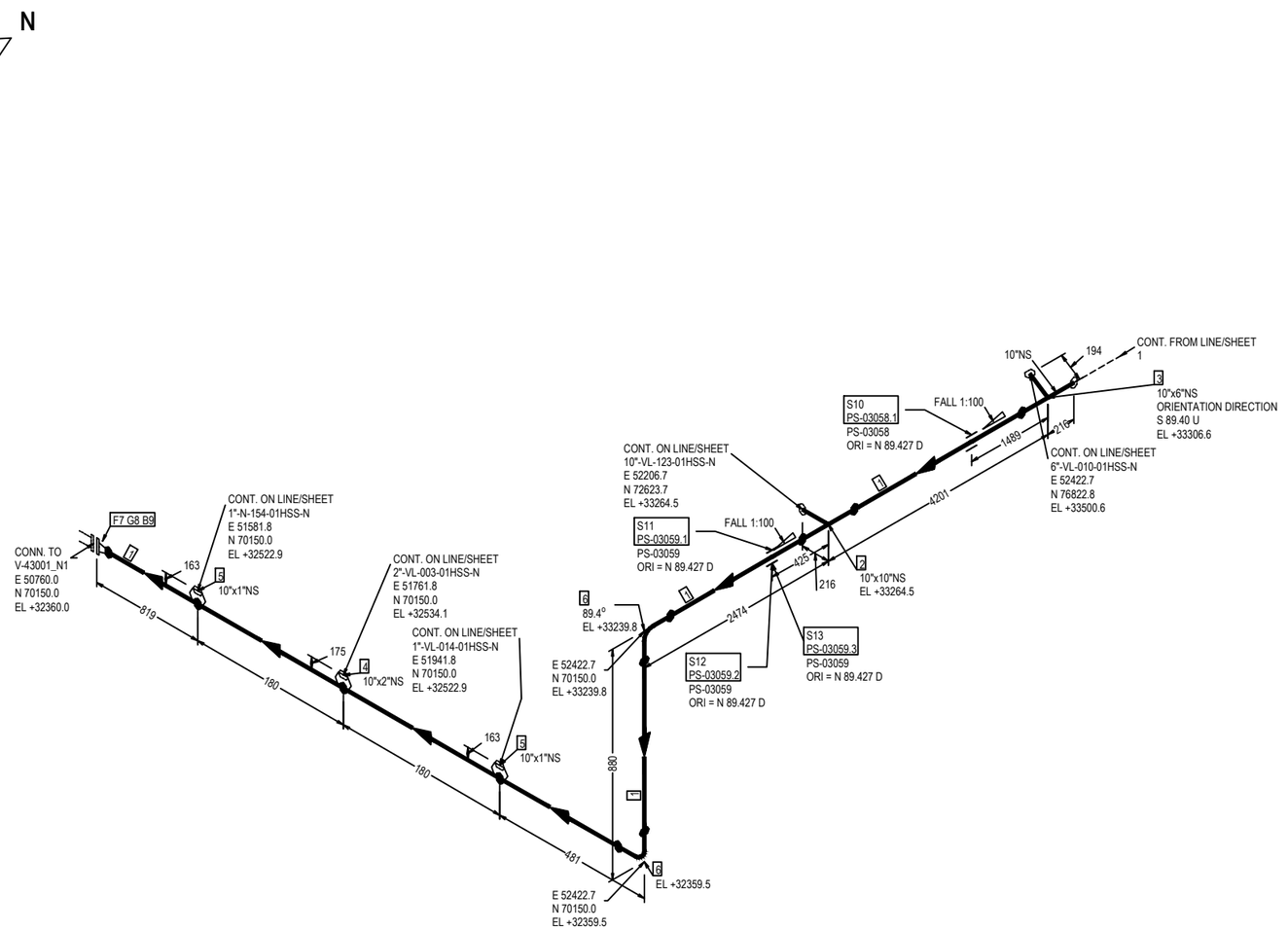
SIZE: A3

DRAWING NO. 123A90-DDL-PP-DI-71000_042

SHEET 1/2

REV. 02

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FABRICATION MATERIALS

| PT NO | COMPONENT DESCRIPTION | N.S. | ITEM CODE | Q.TY | WEIGHT |
|---|---|---|---|---|---|
| 1 | Pipe ASME B36.19M PE 4,19 SML ASTM A312 Gr.TP316/316L | 10 | PIPESS01701000 | 6949MM | 195.96 |
| 2 | Tee ASME B16.9 BW 4,19 WRS ASTM A403 Gr.WP316/316L | 10 x 10 | TEE0SS00941000 | 1 | 18.80 |
| 3 | Tee Reducing ASME B16.9 BW 4,19x3,4 WRS ASTM A403 Gr.WP316/316L | 10 x 6 | TER0SS03441006 | 1 | 18.80 |
| 4 | Weldolet MSS SP-97 BW 4,19x2,77 FRG ASTM A182 Gr.F316/316L | 10 x 2 | OWELSS01971002 | 1 | 0.80 |
| 5 | Weldolet MSS SP-97 BW 4,19x3,38 FRG ASTM A182 Gr.F316/316L | 10 x 1 | OWELSS02441001 | 2 | 0.64 |
| 6 | 90 Deg Elbow Long Radius ASME B16.9 BW 4,19 WRS ASTM A403 Gr.WP316/316L | 10 | E90RSS01151000 | 2 | 33.94 |
| 7 | Flange WN ASME B16.5 150LB RF 4,19 FRG ASTM A182 Gr.F316/316L | 10 | FLW0SS03491000 | 1 | 24.37 |
| | | | TOTAL FABRICATION WEIGHT | | 293.31 |

ERECTION MATERIALS

| PT NO | COMPONENT DESCRIPTION | N.S. | ITEM CODE | Q.TY | WEIGHT |
|---|---|---|---|---|---|
| 8 | Insulation Kit Ends as per ASME B16.5 150LB RF | 10 | SPIKNN00611000 | 1 | 0.57 |
| 9 | 135 Stud Bolt + 2 Heavy Nuts ASME B1.1 ASTM A193 Gr.B7 - A194 Gr.2H Hot dip galvanized | 7/8 | SB20BO19840500 | 12 | 8.40 |
| | SUPPORTS | | | | |
| 10 | /PS-03058.1 | 10 | | 1 | 2.16 |
| 11 | /PS-03059.1 | 10 | | 1 | 9.66 |
| 12 | /PS-03059.2 | 10 | | 1 | 2.18 |
| 13 | /PS-03059.3 | 10 | | 1 | 3.33 |
| | | | TOTAL ERECTION WEIGHT | | 26.30 |
| | | | TOTAL WEIGHT | | 319.61 |

| REFERENCE DOCUMENTS | |
|---|---|
| 123A90-DDL-PP-RE-70001 | STRESS ANALYSIS REPORT |
| 123A90-DDL-PR-PID-80028 | P&ID |
| 123A90-DDL-MAT-SP-60003 | INSULATION SPECIFICATION |
| 123A90-DDL-MAT-SP-60006 | COATING & PAINTING SPEC. |
| 123A90-DDL-PP-00-72000 | PIPING SUPPORT BOOK |
| 123A90-DDL-PP-SP-70029 | PIPING MATERIAL CLASS |

SYMBOLS LEGEND:
BUTT WELD · THREADED · HEAT TRACING
SOCKET · PIPE SUPPORT · INSULATED

| NDT EXAMINATION | | | | INSULATION & PAINTING | | |
|---|---|---|---|---|---|---|
| NDT TYPE | % | NDT TYPE | % | INS. TYPE | INS. THK. | INS. SURF. (m²) |
| RT | 100 | VT | 100 | N | | |
| INSPECTION CATEGORY | 1 | MT/PT | 100Ratio | PAINT SYS. | BASE RAL | PAINT. SURF. (m²) |
| TESTING | | | | 6A | RAL 9002 | SEE Sh1 |
| TEST FLUID | | TEST PRESS. (barg) | | HEAT TRACING | | |
| Water | | 5.25 | | - | | |
| PROCESS LINE DATA | | | | LINE DATA | | |
| DESIGN TEMP. (°C) | | DESIGN PRESS. (barg) | | STRESS SYS. | PED CAT. | PWHT |
| -29 | 100 | | 3.5 | 01 | II | No |

| Revision Number | Date | Description | Prepared by | Checked by | Approved by |
|---|---|---|---|---|---|
| 02 | 29/09/25 | AS-BUILT (ASB) | SPS | CBO | CGI |
| 01 | 12/07/24 | ACCEPTED FOR CONSTRUCTION | MMA | CBO | DLO |
| 00 | 07/06/24 | ISSUE FOR REVIEW | MMA | CBO | DLO |

ROSETTI MARINO

# CROSSWIND

DWG TYTLE:

## 10"-VL-116-01HSS-N

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK

SCALE N.A.

DRAWN SPS | CHECKED CBO | APPROVED CGI | DATE 29/09/25

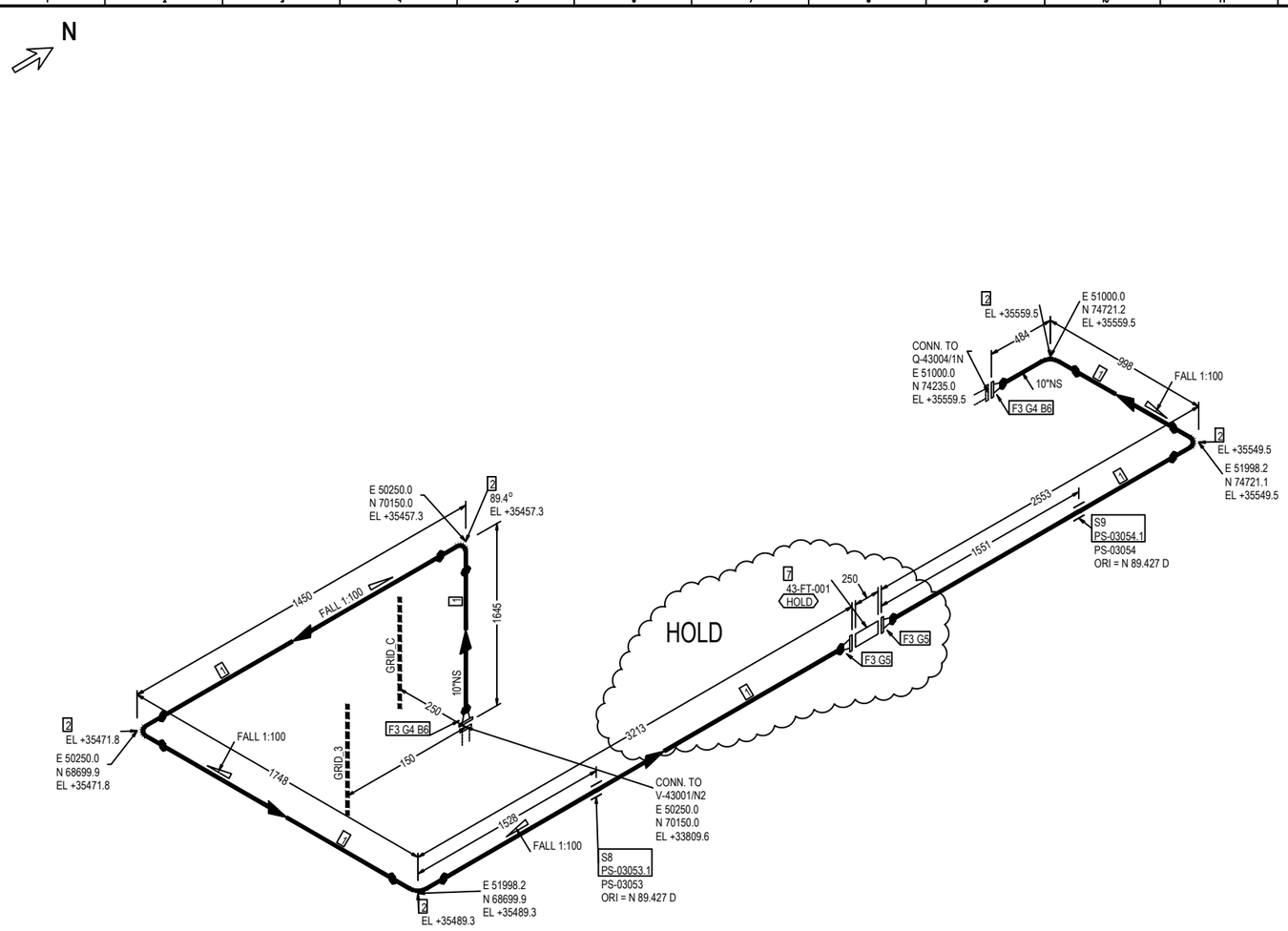
SIZE: A3

DRAWING NO. 123A90-DDL-PP-DI-71000_042

SHEET 2/2

REV. 02

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FABRICATION MATERIALS

| PT NO | COMPONENT DESCRIPTION | N.S. | ITEM CODE | Q.TY | WEIGHT |
|---|---|---|---|---|---|
| 1 | Pipe ASME B36.19M PE 4,19 SML ASTM A312 Gr.TP316/316L | 10 | PIPESS01701000 | 7879MM | 222.19 |
| 2 | 90 Deg Elbow Long Radius ASME B16.9 BW 4,19 WRS ASTM A403 Gr.WP316/316L | 10 | E90RSS01151000 | 5 | 84.85 |
| 3 | Flange WN ASME B16.5 150LB RF 4,19 FRG ASTM A182 Gr.F316/316L | 10 | FLW0SS03491000 | 4 | 97.48 |
| | | | TOTAL FABRICATION WEIGHT | | 404.52 |

ERECTION MATERIALS

| PT NO | COMPONENT DESCRIPTION | N.S. | ITEM CODE | Q.TY | WEIGHT |
|---|---|---|---|---|---|
| 4 | Insulation Kit Ends as per ASME B16.5 150LB RF | 10 | SPIKNN00611000 | 2 | 1.14 |
| 5 | Gasket Spiral Wound Thk. 3.2 mm ASME B16.20 150LB RF GSK AISI 316 + GRAPHITE c/w INNER RING | 10 | GSW0GK11181000 | 2 | 1.14 |
| 6 | 135 Stud Bolt + 2 Heavy Nuts ASME B1.1 ASTM A193 Gr.B7 - A194 Gr.2H Hot dip galvanized | 7/8 | SB20BO19840500 | 24 | 16.80 |
| 10 | 120 Stud Bolt + 2 Heavy Nuts ASME B1.1 ASTM A193 Gr.B7 - A194 Gr.2H Hot dip galvanized | 7/8 | SB20BO22250500 | 24 | 15.60 |
| | INSTRUMENTS | | | | |
| 7 | Flow Meter 150#RF 43-FT-001 | 10 | | 1 | --- |
| | SUPPORTS | | | | |
| 8 | /PS-03053.1 | 10 | | 1 | 2.16 |
| 9 | /PS-03054.1 | 10 | | 1 | 0.12 |
| | | | TOTAL ERECTION WEIGHT | | 36.96 |
| | | | TOTAL WEIGHT | | 441.48 |

| REFERENCE DOCUMENTS | |
|---|---|
| 123A90-DDL-PP-RE-70001 | STRESS ANALYSIS REPORT |
| 123A90-DDL-PR-PID-80029 | P&ID |
| 123A90-DDL-MAT-SP-60003 | INSULATION SPECIFICATION |
| 123A90-DDL-MAT-SP-60006 | COATING & PAINTING SPEC. |
| 123A90-DDL-PP-00-72000 | PIPING SUPPORT BOOK |
| 123A90-DDL-PP-SP-70029 | PIPING MATERIAL CLASS |

SYMBOLS LEGEND:
BUTT WELD · THREADED · HEAT TRACING · SOCKET · PIPE SUPPORT · INSULATED

| NDT EXAMINATION | | | |
|---|---|---|---|
| NDT TYPE | % | NDT TYPE | % |
| RT | 100 | VT | 100 |
| INSPECTION CATEGORY | 1 | MT/PT | 100Ratio |
| TESTING | | | |
| TEST FLUID | | TEST PRESS. (barg) | |
| Water | | 5.25 | |
| PROCESS LINE DATA | | | |
| DESIGN TEMP. (°C) | | DESIGN PRESS. (barg) | |
| -29 | 100 | | 3.5 |

| INSULATION & PAINTING | | |
|---|---|---|
| INS. TYPE | INS. THK. | INS. SURF. (m²) |
| N | | |
| PAINT SYS. | BASE RAL | PAINT. SURF. (m²) |
| 6A | RAL 9002 | 9.94 |
| HEAT TRACING | | |
| - | | |
| LINE DATA | | |
| STRESS SYS. | PED CAT. | PWHT |
| 01 | II | No |

| Revision Number | Date | Description | Prepared by | Checked by | Approved by |
|---|---|---|---|---|---|
| 02 | 29/09/25 | AS-BUILT (ASB) | SPS | CBO | CGI |
| 01 | 12/07/24 | ACCEPTED FOR CONSTRUCTION | MMA | CBO | DLO |
| 00 | 07/06/24 | ISSUE FOR REVIEW | MMA | CBO | DLO |

ROSETTI MARINO

CROSSWIND

DWG TYTLE:

# 10"-VL-117-01HSS-N

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK

SCALE N.A.

DRAWN SPS | CHECKED CBO | APPROVED CGI | DATE 29/09/25

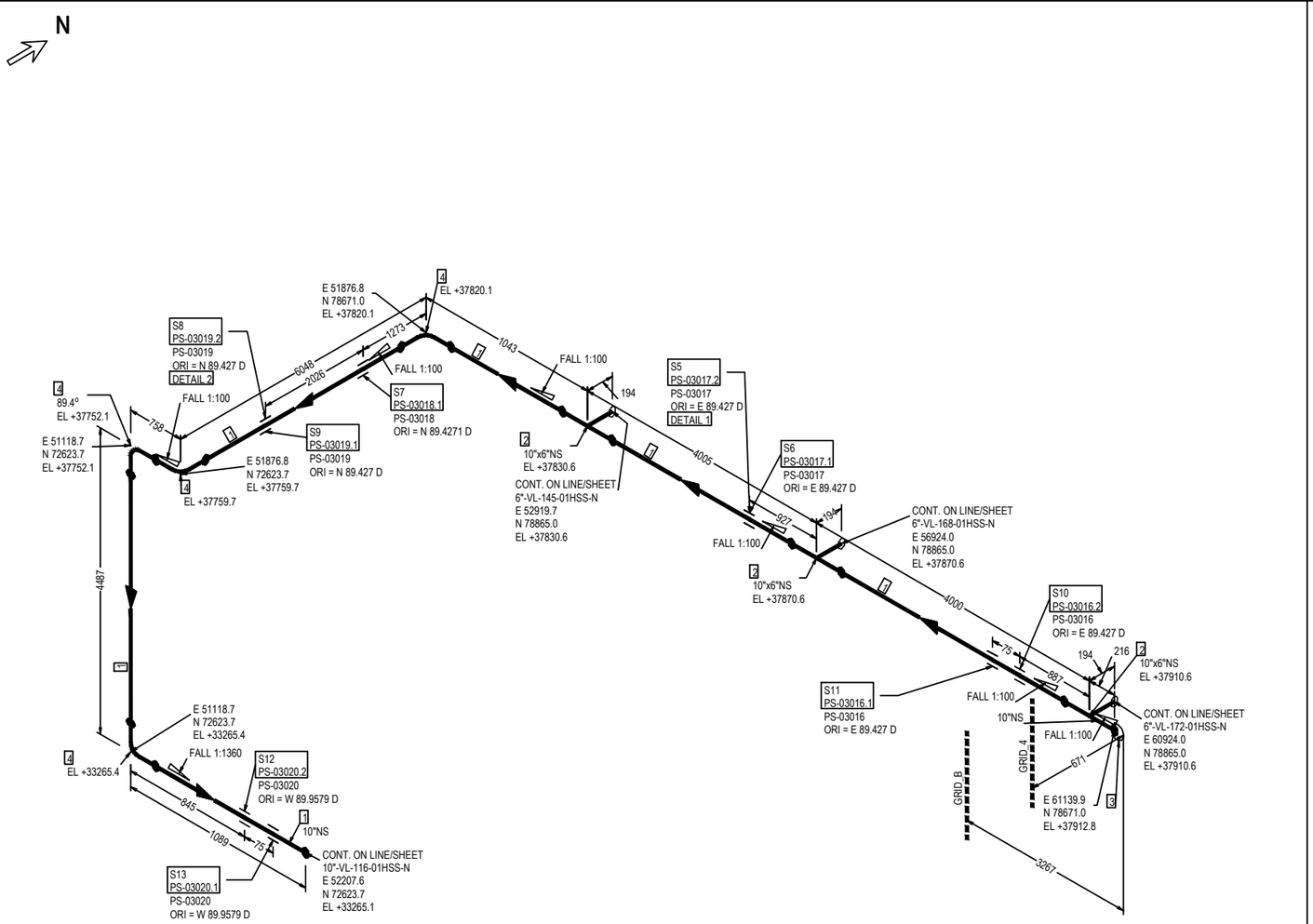
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DRAWING NO. 123A90-DDL-PP-DI-71000_043

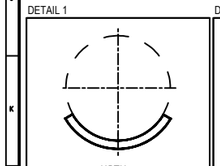
SHEET 1/1

REV. 02

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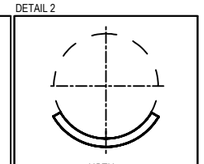



DETAIL 1




C-40-A-10"-550-4.19-120-90

DETAIL 2




C-40-A-10"-550-4.19-120-90

FABRICATION MATERIALS

| PT NO | COMPONENT DESCRIPTION | N.S. | ITEM CODE | Q.TY | WEIGHT |
|---|---|---|---|---|---|
| 1 | Pipe ASME B36.19M PE 4,19 SML ASTM A312 Gr.TP316/316L | 10 | PIPESS01701000 | 17311MM | 488.17 |
| 2 | Tee Reducing ASME B16.9 BW 4,19x3,4 WRS ASTM A403 Gr.WP316/316L | 10 x 6 | TER0SS03441006 | 3 | 56.40 |
| 3 | Cap ASME B16.9 BW 4,19 WRS ASTM A403 Gr.WP316/316L | 10 | CAP0SS00961000 | 1 | 4.59 |
| 4 | 90 Deg Elbow Long Radius ASME B16.9 BW 4,19 WRS ASTM A403 Gr.WP316/316L | 10 | E90RSS01151000 | 4 | 67.88 |
| | SUPPORTS | | | | |
| 5 | /PS-03017.2 | 10 | | 1 | 5.24 |
| 6 | /PS-03017.1 | 10 | | 1 | 5.78 |
| 7 | /PS-03018.1 | 10 | | 1 | 0.12 |
| 8 | /PS-03019.2 | 10 | | 1 | 5.24 |
| 9 | /PS-03019.1 | 10 | | 1 | 5.78 |
| | | | TOTAL FABRICATION WEIGHT | | 639.20 |

ERECTION MATERIALS

| PT NO | COMPONENT DESCRIPTION | N.S. | ITEM CODE | Q.TY | WEIGHT |
|---|---|---|---|---|---|
| | SUPPORTS | | | | |
| 10 | /PS-03016.2 | 10 | | 1 | 2.16 |
| 11 | /PS-03016.1 | 10 | | 1 | 2.16 |
| 12 | /PS-03020.2 | 10 | | 1 | 2.16 |
| 13 | /PS-03020.1 | 10 | | 1 | 2.16 |
| | | | TOTAL ERECTION WEIGHT | | 8.64 |
| | | | TOTAL WEIGHT | | 647.84 |

| REFERENCE DOCUMENTS | |
|---|---|
| 123A90-DDL-PP-RE-70001 | STRESS ANALYSIS REPORT |
| 123A90-DDL-PR-PID-80028 | P&ID |
| 123A90-DDL-MAT-SP-60003 | INSULATION SPECIFICATION |
| 123A90-DDL-MAT-SP-60006 | COATING & PAINTING SPEC. |
| 123A90-DDL-PP-00-72000 | PIPING SUPPORT BOOK |
| 123A90-DDL-PP-SP-70029 | PIPING MATERIAL CLASS |

SYMBOLS LEGEND:
BUTT WELD · THREADED · HEAT TRACING · SOCKET · PIPE SUPPORT · INSULATED

| NDT EXAMINATION | | | |
|---|---|---|---|
| NDT TYPE | % | NDT TYPE | % |
| RT | 100 | VT | 100 |
| INSPECTION CATEGORY | 1 | MT/PT | 100Ratio |
| TESTING | | | |
| TEST FLUID | | TEST PRESS.(barg) | |
| Water | | 5.25 | |
| PROCESS LINE DATA | | | |
| DESIGN TEMP. (°C) | | DESIGN PRESS.(barg) | |
| -29 | 100 | | 3.5 |

| INSULATION & PAINTING | | |
|---|---|---|
| INS. TYPE | INS. THK. | INS. SURF. (m²) |
| N | | |
| PAINT SYS. | BASE RAL | PAINT. SURF. (m²) |
| 6A | RAL 9002 | 18.12 |
| HEAT TRACING | | |
| - | | |
| LINE DATA | | |
| STRESS SYS. | PED CAT. | PWHT |
| 01 | II | No |

| Revision Number | Date | Description | Prepared by | Checked by | Approved by |
|---|---|---|---|---|---|
| 02 | 29/09/25 | AS-BUILT (ASB) | SPS | CBO | CGI |
| 01 | 12/07/24 | ACCEPTED FOR CONSTRUCTION | MMA | CBO | DLO |
| 00 | 07/06/24 | ISSUE FOR REVIEW | MMA | CBO | DLO |

ROSETTI MARINO

# CROSSWIND

DWG TYTLE:

## 10"-VL-123-01HSS-N

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK

SCALE N.A.

DRAWN SPS | CHECKED CBO | APPROVED CGI | DATE 29/09/25

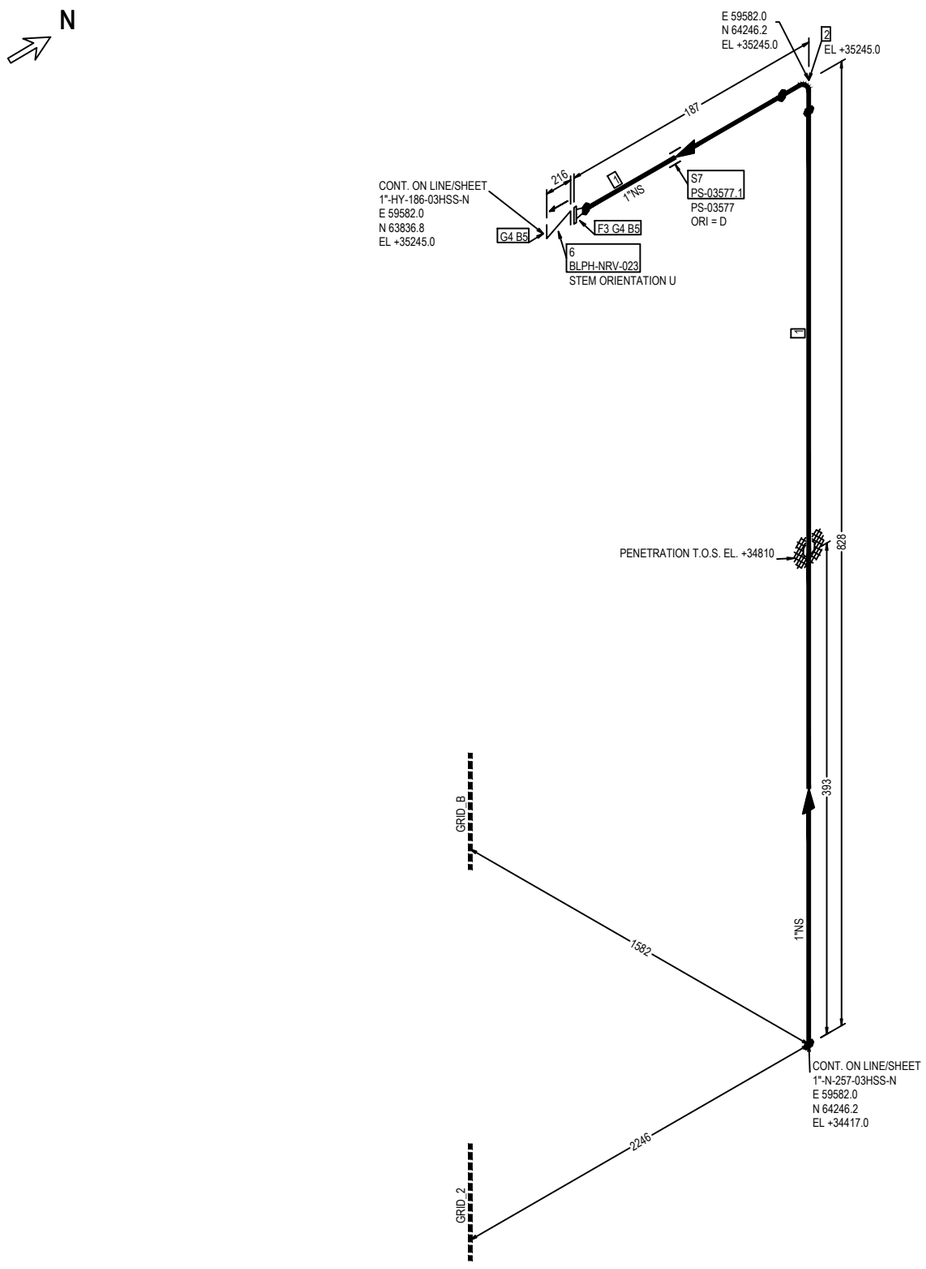
SIZE: A3

DRAWING NO. 123A90-DDL-PP-DI-71000_044

SHEET 1/1

REV. 02

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FABRICATION MATERIALS

| PT NO | COMPONENT DESCRIPTION | N.S. | ITEM CODE | Q.TY | WEIGHT |
|---|---|---|---|---|---|
| 1 | Pipe ASME B36.19M PE 3,38 SML ASTM A312 Gr.TP316/316L | 1 | PIPESS00480100 | 877MM | 2.19 |
| 2 | 90 Deg Elbow Long Radius ASME B16.9 BW 3,38 WRS ASTM A403 Gr.WP316/316L | 1 | E90RSS00670100 | 1 | 0.14 |
| 3 | Flange WN ASME B16.5 300LB RF 3,38 FRG ASTM A182 Gr.F316/316L | 1 | FLW0SS03270100 | 1 | 1.83 |
| | | | TOTAL FABRICATION WEIGHT | | 4.16 |

ERECTION MATERIALS

| PT NO | COMPONENT DESCRIPTION | N.S. | ITEM CODE | Q.TY | WEIGHT |
|---|---|---|---|---|---|
| 4 | Gasket Spiral Wound Thk. 3.2 mm ASME B16.20 300LB RF GSK AISI 316 + GRAPHITE c/w INNER RING | 1 | GSW0GK11210100 | 2 | 0.14 |
| 5 | 80 Stud Bolt + 2 Heavy Nuts ASME B1.1 ASTM A193 Gr.B7 - A194 Gr.2H Hot dip galvanized | 5/8 | SB20BO01870300 | 8 | 1.84 |
| 6 | Check Valve Piston EN ISO 15761 FLG 300LB RF CH03C02RFH | 1 | VDRNNN02620100 | 1 | 0.00 |
| | SUPPORTS | | | | |
| 7 | /PS-03577.1 | 1 | | 1 | 0.19 |
| | | | TOTAL ERECTION WEIGHT | | 2.17 |
| | | | TOTAL WEIGHT | | 6.33 |

| REFERENCE DOCUMENTS | |
|---|---|
| 123A90-DDL-PP-RE-70001 | STRESS ANALYSIS REPORT |
| 123A90-DDL-PR-PID-80027 | P&ID |
| 123A90-DDL-MAT-SP-60003 | INSULATION SPECIFICATION |
| 123A90-DDL-MAT-SP-60006 | COATING & PAINTING SPEC. |
| 123A90-DDL-PP-00-72000 | PIPING SUPPORT BOOK |
| 123A90-DDL-PP-SP-70029 | PIPING MATERIAL CLASS |

SYMBOLS LEGEND:
BUTT WELD · THREADED · HEAT TRACING
SOCKET · PIPE SUPPORT · INSULATED

| NDT EXAMINATION | | | |
|---|---|---|---|
| NDT TYPE | % | NDT TYPE | % |
| RT | 10 | VT | 100 |
| INSPECTION CATEGORY | 2 | MT/PT | 10 |
| TESTING | | | |
| TEST FLUID | | TEST PRESS.(barg) | |
| Water | | 60.00 | |
| PROCESS LINE DATA | | | |
| DESIGN TEMP. (°C) | | DESIGN PRESS.(barg) | |
| -46 | 80 | | 40 |

| INSULATION & PAINTING | | |
|---|---|---|
| INS. TYPE | INS. THK. | INS. SURF. (m²) |
| N | | |
| PAINT SYS. | BASE RAL | PAINT. SURF. (m²) |
| 6A | RAL 9002 | 0.13 |
| HEAT TRACING | | |
| - | | |
| LINE DATA | | |
| STRESS SYS. | PED CAT. | PWHT |
| - | Art. 4, par. 3 | No |

| Revision Number | Date | Description | Prepared by | Checked by | Approved by |
|---|---|---|---|---|---|
| 02 | 29/09/25 | AS-BUILT (ASB) | SPS | CBO | CGI |
| 01 | 26/07/24 | ACCEPTED FOR CONSTRUCTION | MMA | CBO | DLO |
| 00 | 07/06/24 | ISSUE FOR REVIEW | MMA | CBO | DLO |

ROSETTI MARINO

# CROSSWIND

DWG TYTLE:

## 1"-N-124-03HSS-N

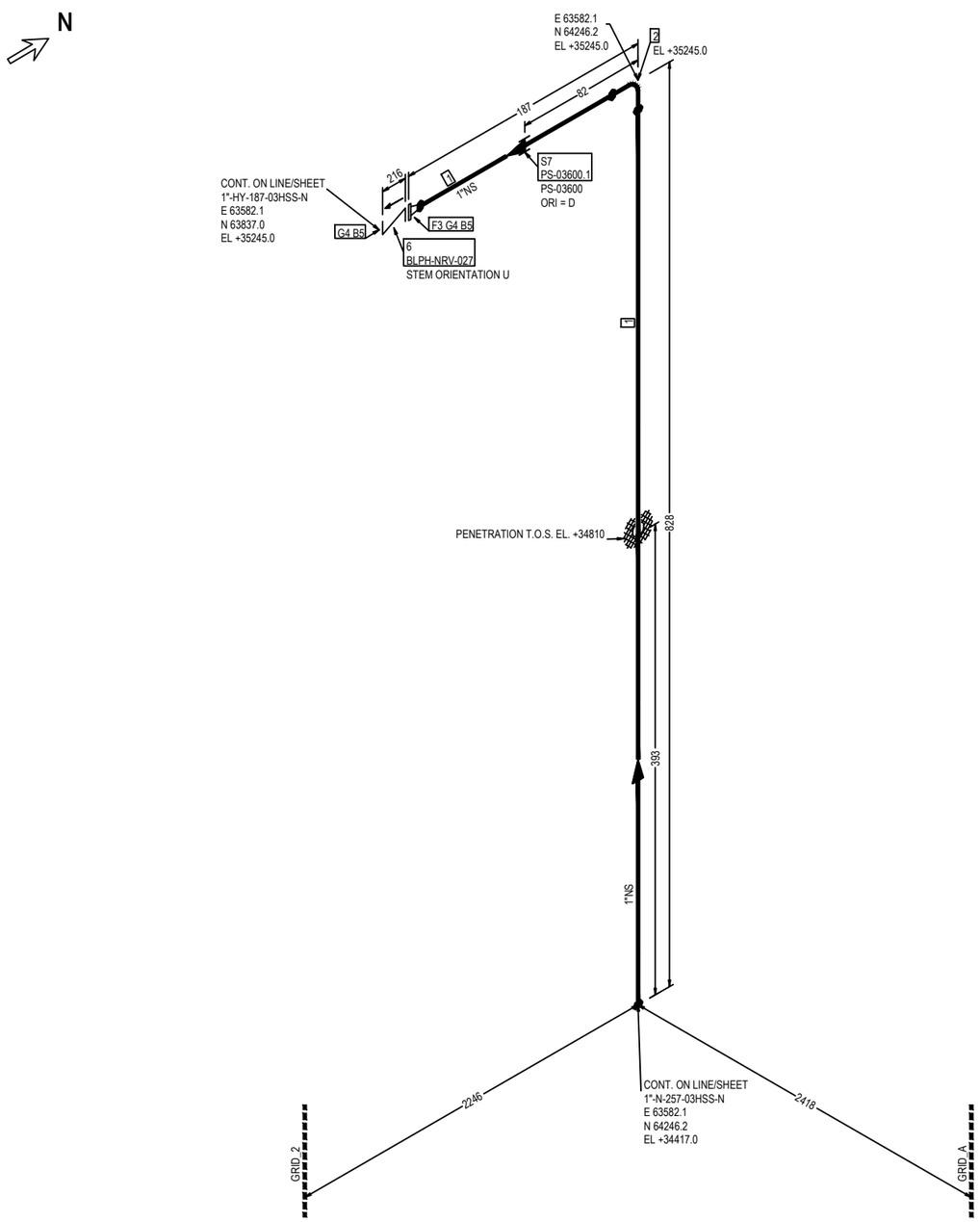
CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK

SCALE N.A.

DRAWN SPS | CHECKED CBO | APPROVED CGI | DATE 29/09/25

SIZE: A3 | DRAWING NO. 123A90-DDL-PP-DI-71000_045 | SHEET 1/1 | REV. 02

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FABRICATION MATERIALS

| PT NO | COMPONENT DESCRIPTION | N.S. | ITEM CODE | Q.TY | WEIGHT |
|---|---|---|---|---|---|
| 1 | Pipe ASME B36.19M PE 3,38 SML ASTM A312 Gr.TP316/316L | 1 | PIPESS00480100 | 877MM | 2.19 |
| 2 | 90 Deg Elbow Long Radius ASME B16.9 BW 3,38 WRS ASTM A403 Gr.WP316/316L | 1 | E90RSS00670100 | 1 | 0.14 |
| 3 | Flange WN ASME B16.5 300LB RF 3,38 FRG ASTM A182 Gr.F316/316L | 1 | FLW0SS03270100 | 1 | 1.83 |
| | | | TOTAL FABRICATION WEIGHT | | 4.16 |

ERECTION MATERIALS

| PT NO | COMPONENT DESCRIPTION | N.S. | ITEM CODE | Q.TY | WEIGHT |
|---|---|---|---|---|---|
| 4 | Gasket Spiral Wound Thk. 3.2 mm ASME B16.20 300LB RF GSK AISI 316 + GRAPHITE c/w INNER RING | 1 | GSW0GK11210100 | 2 | 0.14 |
| 5 | 80 Stud Bolt + 2 Heavy Nuts ASME B1.1 ASTM A193 Gr.B7 - A194 Gr.2H Hot dip galvanized | 5/8 | SB20BO01870300 | 8 | 1.84 |
| 6 | Check Valve Piston EN ISO 15761 FLG 300LB RF CH03C02RFH | 1 | VDRNNN02620100 | 1 | 0.00 |
| | SUPPORTS | | | | |
| 7 | /PS-03600.1 | 1 | | 1 | 0.19 |
| | | | TOTAL ERECTION WEIGHT | | 2.17 |
| | | | TOTAL WEIGHT | | 6.33 |

| REFERENCE DOCUMENTS | |
|---|---|
| 123A90-DDL-PP-RE-70001 | STRESS ANALYSIS REPORT |
| 123A90-DDL-PR-PID-80027 | P&ID |
| 123A90-DDL-MAT-SP-60003 | INSULATION SPECIFICATION |
| 123A90-DDL-MAT-SP-60006 | COATING & PAINTING SPEC. |
| 123A90-DDL-PP-00-72000 | PIPING SUPPORT BOOK |
| 123A90-DDL-PP-SP-70029 | PIPING MATERIAL CLASS |

SYMBOLS LEGEND:
BUTT WELD · THREADED · HEAT TRACING · SOCKET · PIPE SUPPORT · INSULATED

| NDT EXAMINATION | | | |
|---|---|---|---|
| NDT TYPE | % | NDT TYPE | % |
| RT | 10 | VT | 100 |
| INSPECTION CATEGORY | 2 | MT/PT | 10 |
| TESTING | | | |
| TEST FLUID | | TEST PRESS. (barg) | |
| Water | | 60.00 | |
| PROCESS LINE DATA | | | |
| DESIGN TEMP. (°C) | | DESIGN PRESS. (barg) | |
| -46 | 80 | | 40 |

| INSULATION & PAINTING | | |
|---|---|---|
| INS. TYPE | INS. THK. | INS. SURF. (m²) |
| N | | |
| PAINT SYS. | BASE RAL | PAINT. SURF. (m²) |
| 6A | RAL 9002 | 0.13 |
| HEAT TRACING | | |
| - | | |
| LINE DATA | | |
| STRESS SYS. | PED CAT. | PWHT |
| - | Art. 4, par. 3 | No |

| Revision Number | Date | Description | Prepared by | Checked by | Approved by |
|---|---|---|---|---|---|
| 02 | 29/09/25 | AS-BUILT (ASB) | SPS | CBO | CGI |
| 01 | 26/07/24 | ACCEPTED FOR CONSTRUCTION | MMA | CBO | DLO |
| 00 | 07/06/24 | ISSUE FOR REVIEW | MMA | CBO | DLO |

ROSETTI MARINO

# CROSSWIND

DWG TYTLE:

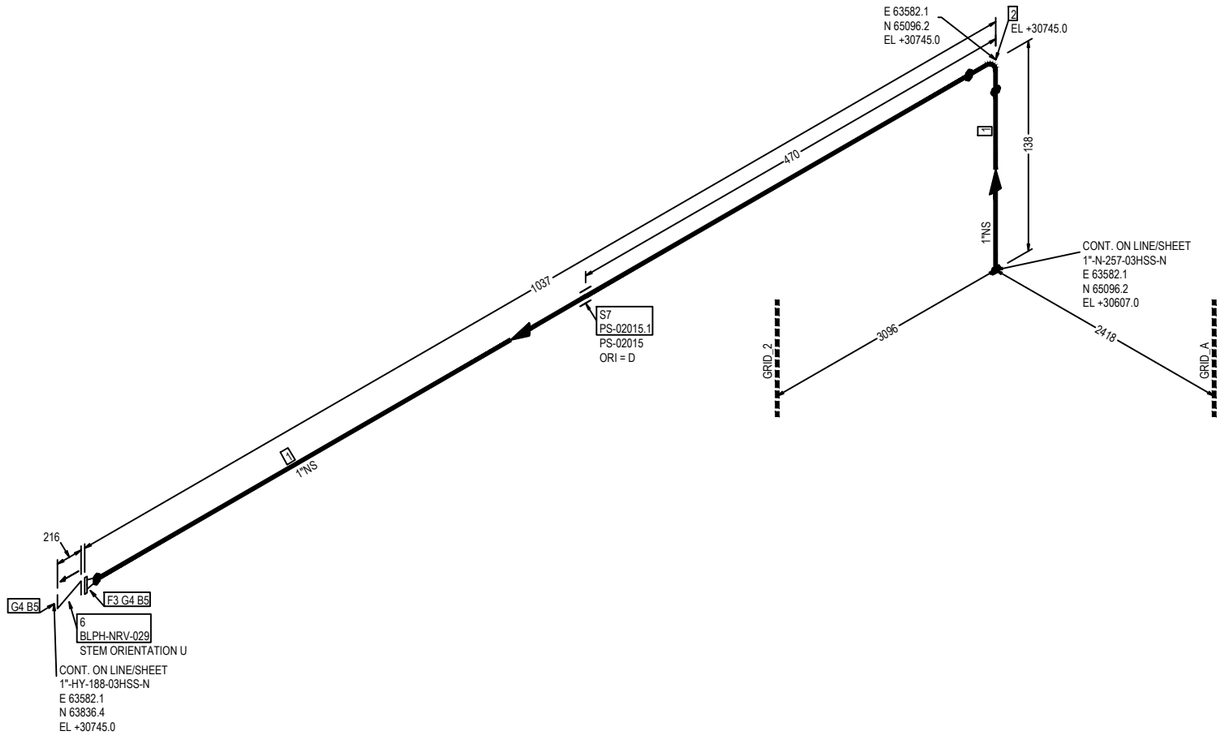
## 1"-N-125-03HSS-N

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK | SCALE N.A.

DRAWN SPS | CHECKED CBO | APPROVED CGI | DATE 29/09/25

SIZE: A3 | DRAWING NO. 123A90-DDL-PP-DI-71000_046 | SHEET 1/1 | REV. 02

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FABRICATION MATERIALS

| PT NO | COMPONENT DESCRIPTION | N.S. | ITEM CODE | Q.TY | WEIGHT |
|---|---|---|---|---|---|
| 1 | Pipe ASME B36.19M PE 3,38 SML ASTM A312 Gr.TP316/316L | 1 | PIPESS00480100 | 1037MM | 2.59 |
| 2 | 90 Deg Elbow Long Radius ASME B16.9 BW 3,38 WRS ASTM A403 Gr.WP316/316L | 1 | E90RSS00670100 | 1 | 0.14 |
| 3 | Flange WN ASME B16.5 300LB RF 3,38 FRG ASTM A182 Gr.F316/316L | 1 | FLW0SS03270100 | 1 | 1.83 |
| | | | | TOTAL FABRICATION WEIGHT | 4.56 |

ERECTION MATERIALS

| PT NO | COMPONENT DESCRIPTION | N.S. | ITEM CODE | Q.TY | WEIGHT |
|---|---|---|---|---|---|
| 4 | Gasket Spiral Wound Thk. 3.2 mm ASME B16.20 300LB RF GSK AISI 316 + GRAPHITE c/w INNER RING | 1 | GSW0GK11210100 | 2 | 0.14 |
| 5 | 80 Stud Bolt + 2 Heavy Nuts ASME B1.1 ASTM A193 Gr.B7 - A194 Gr.2H Hot dip galvanized | 5/8 | SB20BO01870300 | 8 | 1.84 |
| 6 | Check Valve Piston EN ISO 15761 FLG 300LB RF CH03C02RFH | 1 | VDRNNN02620100 | 1 | 0.00 |
| | SUPPORTS | | | | |
| 7 | /PS-02015.1 | 1 | | 1 | 0.19 |
| | | | | TOTAL ERECTION WEIGHT | 2.17 |
| | | | | TOTAL WEIGHT | 6.73 |

| REFERENCE DOCUMENTS | |
|---|---|
| 123A90-DDL-PP-RE-70001 | STRESS ANALYSIS REPORT |
| 123A90-DDL-PR-PID-80027 | P&ID |
| 123A90-DDL-MAT-SP-60003 | INSULATION SPECIFICATION |
| 123A90-DDL-MAT-SP-60006 | COATING & PAINTING SPEC. |
| 123A90-DDL-PP-00-72000 | PIPING SUPPORT BOOK |
| 123A90-DDL-PP-SP-70029 | PIPING MATERIAL CLASS |

SYMBOLS LEGEND:
BUTT WELD — THREADED — HEAT TRACING
SOCKET — PIPE SUPPORT — INSULATED

| NDT EXAMINATION | | | |
|---|---|---|---|
| NDT TYPE | % | NDT TYPE | % |
| RT | 10 | VT | 100 |
| INSPECTION CATEGORY | 2 | MT/PT | 10 |
| TESTING | | | |
| TEST FLUID | | TEST PRESS. (barg) | |
| Water | | 60.00 | |
| PROCESS LINE DATA | | | |
| DESIGN TEMP. (°C) | | DESIGN PRESS. (barg) | |
| -46 | 80 | | 40 |

| INSULATION & PAINTING | | |
|---|---|---|
| INS. TYPE | INS. THK. | INS. SURF. (m²) |
| N | | |
| PAINT SYS. | BASE RAL | PAINT. SURF. (m²) |
| 6A | RAL 9002 | 0.14 |
| HEAT TRACING | | |
| - | | |
| LINE DATA | | |
| STRESS SYS. | PED CAT. | PWHT |
| - | Art. 4, par. 3 | No |

| Revision Number | Date | Description | Prepared by | Checked by | Approved by |
|---|---|---|---|---|---|
| 02 | 29/09/25 | AS-BUILT (ASB) | SPS | CBO | CGI |
| 01 | 26/07/24 | ACCEPTED FOR CONSTRUCTION | MMA | CBO | DLO |
| 00 | 07/06/24 | ISSUE FOR REVIEW | MMA | CBO | DLO |

ROSETTI MARINO

# CROSSWIND

DWG TYTLE:

## 1"-N-126-03HSS-N

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK

SCALE N.A.

DRAWN SPS | CHECKED CBO | APPROVED CGI | DATE 29/09/25

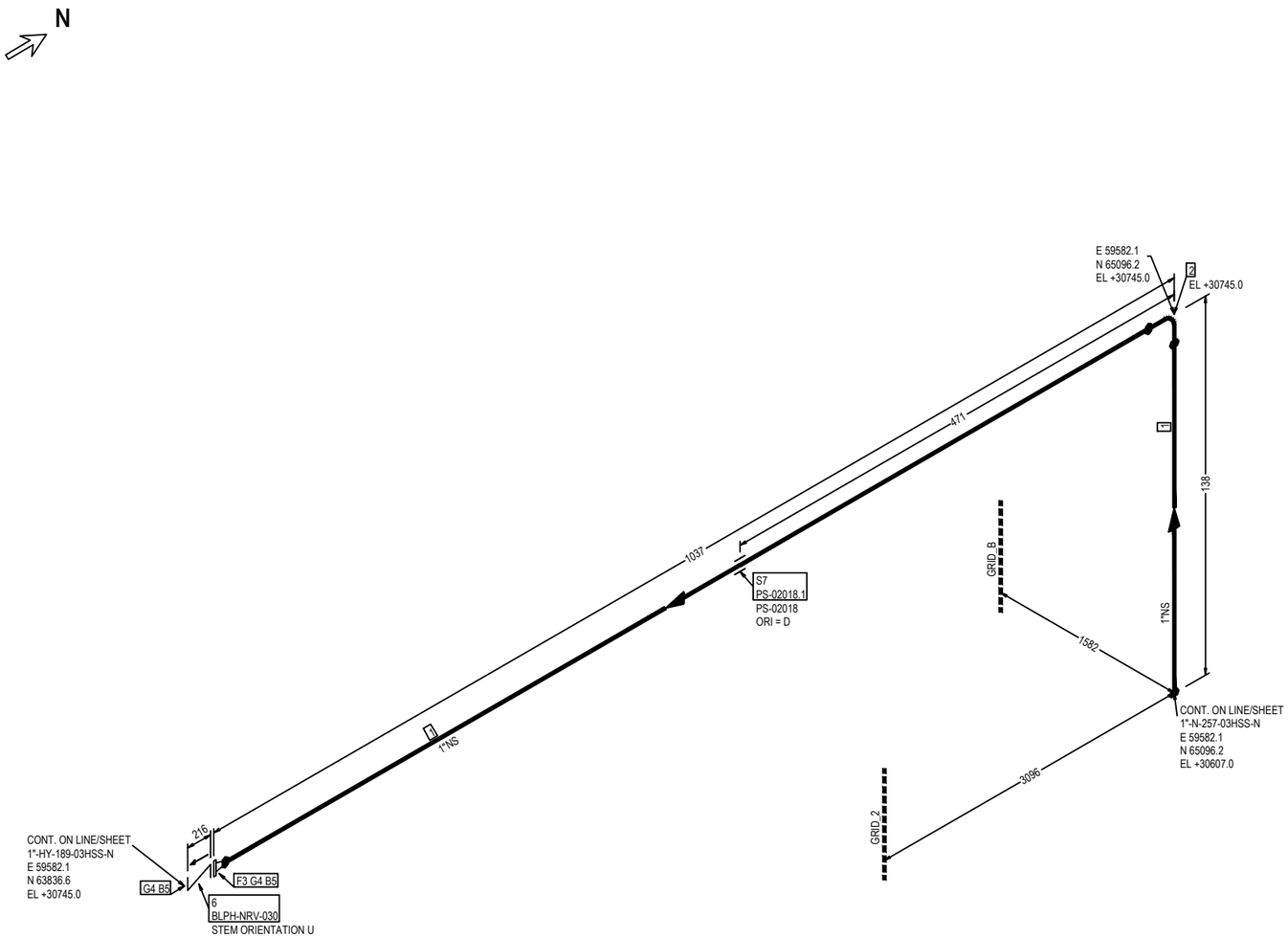
SIZE: A3

DRAWING NO. 123A90-DDL-PP-DI-71000_047

SHEET 1/1

REV. 02

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FABRICATION MATERIALS

| PT NO | COMPONENT DESCRIPTION | N.S. | ITEM CODE | Q.TY | WEIGHT |
|---|---|---|---|---|---|
| 1 | Pipe ASME B36.19M PE 3,38 SML ASTM A312 Gr.TP316/316L | 1 | PIPESS00480100 | 1037MM | 2.59 |
| 2 | 90 Deg Elbow Long Radius ASME B16.9 BW 3,38 WRS ASTM A403 Gr.WP316/316L | 1 | E90RSS00670100 | 1 | 0.14 |
| 3 | Flange WN ASME B16.5 300LB RF 3,38 FRG ASTM A182 Gr.F316/316L | 1 | FLW0SS03270100 | 1 | 1.83 |
| | | | | TOTAL FABRICATION WEIGHT | 4.56 |

ERECTION MATERIALS

| PT NO | COMPONENT DESCRIPTION | N.S. | ITEM CODE | Q.TY | WEIGHT |
|---|---|---|---|---|---|
| 4 | Gasket Spiral Wound Thk. 3.2 mm ASME B16.20 300LB RF GSK AISI 316 + GRAPHITE c/w INNER RING | 1 | GSW0GK11210100 | 2 | 0.14 |
| 5 | 80 Stud Bolt + 2 Heavy Nuts ASME B1.1 ASTM A193 Gr.B7 - A194 Gr.2H Hot dip galvanized | 5/8 | SB20BO01870300 | 8 | 1.84 |
| 6 | Check Valve Piston EN ISO 15761 FLG 300LB RF CH03C02RFH | 1 | VDRNNN02620100 | 1 | 0.00 |
| | SUPPORTS | | | | |
| 7 | /PS-02018.1 | 1 | | 1 | 0.19 |
| | | | | TOTAL ERECTION WEIGHT | 2.17 |
| | | | | TOTAL WEIGHT | 6.73 |

| REFERENCE DOCUMENTS | |
|---|---|
| 123A90-DDL-PP-RE-70001 | STRESS ANALYSIS REPORT |
| 123A90-DDL-PR-PID-80027 | P&ID |
| 123A90-DDL-MAT-SP-60003 | INSULATION SPECIFICATION |
| 123A90-DDL-MAT-SP-60006 | COATING & PAINTING SPEC. |
| 123A90-DDL-PP-00-72000 | PIPING SUPPORT BOOK |
| 123A90-DDL-PP-SP-70029 | PIPING MATERIAL CLASS |

SYMBOLS LEGEND:
BUTT WELD · THREADED · HEAT TRACING · SOCKET · PIPE SUPPORT · INSULATED

| NDT EXAMINATION | | | |
|---|---|---|---|
| NDT TYPE | % | NDT TYPE | % |
| RT | 10 | VT | 100 |
| INSPECTION CATEGORY | 2 | MT/PT | 10 |
| TESTING | | | |
| TEST FLUID | | TEST PRESS.(barg) | |
| Water | | 60.00 | |
| PROCESS LINE DATA | | | |
| DESIGN TEMP. (°C) | | DESIGN PRESS.(barg) | |
| -46 | 80 | | 40 |

| INSULATION & PAINTING | | |
|---|---|---|
| INS. TYPE | INS. THK. | INS. SURF. (m²) |
| N | | |
| PAINT SYS. | BASE RAL | PAINT. SURF. (m²) |
| 6A | RAL 9002 | 0.14 |
| HEAT TRACING | | |
| - | | |
| LINE DATA | | |
| STRESS SYS. | PED CAT. | PWHT |
| - | Art. 4, par. 3 | No |

| Revision Number | Date | Description | Prepared by | Checked by | Approved by |
|---|---|---|---|---|---|
| 02 | 29/09/25 | AS-BUILT (ASB) | SPS | CBO | CGI |
| 01 | 26/07/24 | ACCEPTED FOR CONSTRUCTION | MMA | CBO | DLO |
| 00 | 07/06/24 | ISSUE FOR REVIEW | MMA | CBO | DLO |

ROSETTI MARINO

CROSSWIND

DWG TYTLE:

# 1"-N-127-03HSS-N

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK

SCALE N.A.

DRAWN SPS | CHECKED CBO | APPROVED CGI | DATE 29/09/25

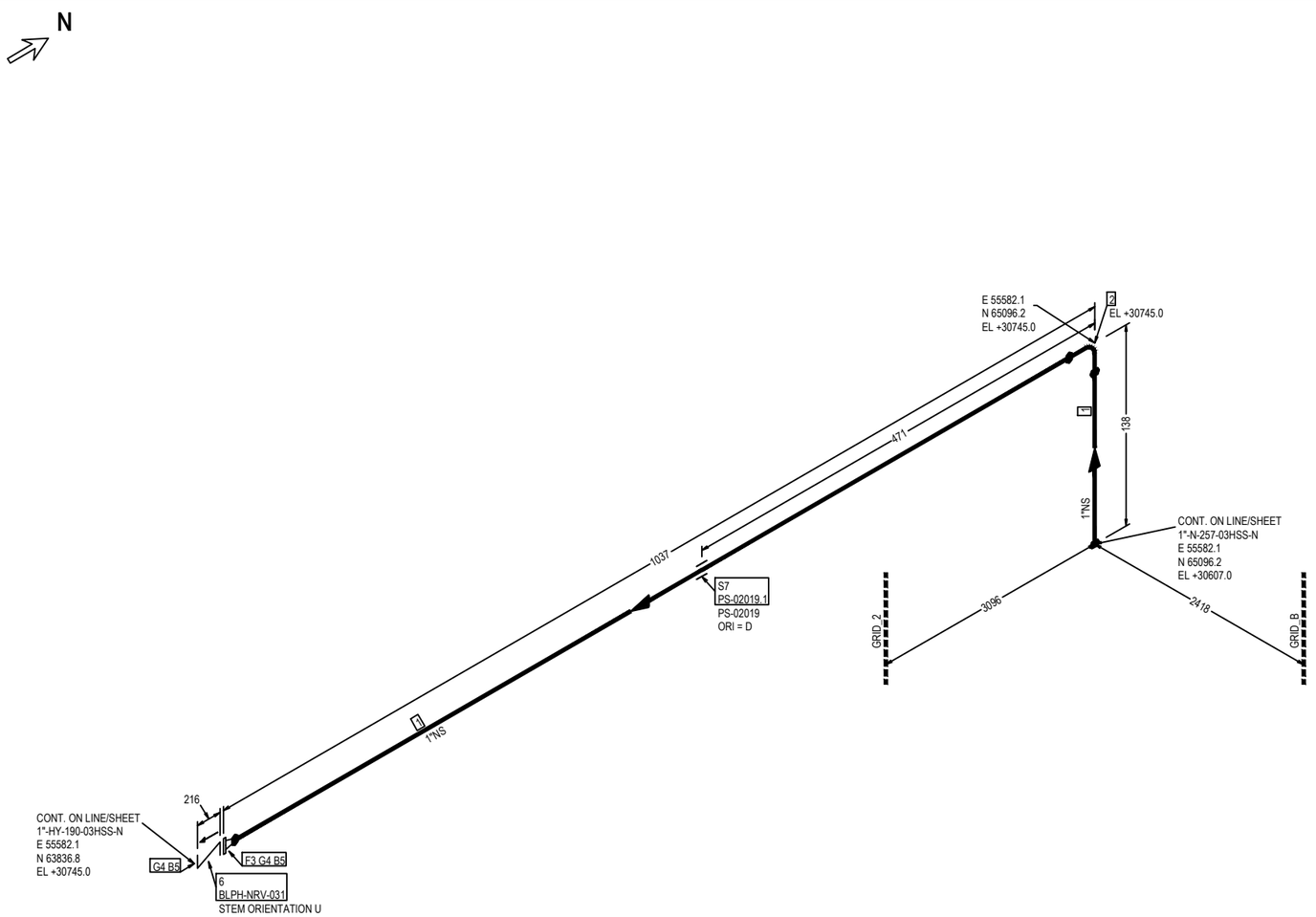
SIZE: A3

DRAWING NO. 123A90-DDL-PP-DI-71000_048

SHEET 1/1

REV. 02

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FABRICATION MATERIALS

| PT NO | COMPONENT DESCRIPTION | N.S. | ITEM CODE | Q.TY | WEIGHT |
|---|---|---|---|---|---|
| 1 | Pipe ASME B36.19M PE 3,38 SML ASTM A312 Gr.TP316/316L | 1 | PIPESS00480100 | 1037MM | 2.59 |
| 2 | 90 Deg Elbow Long Radius ASME B16.9 BW 3,38 WRS ASTM A403 Gr.WP316/316L | 1 | E90RSS00670100 | 1 | 0.14 |
| 3 | Flange WN ASME B16.5 300LB RF 3,38 FRG ASTM A182 Gr.F316/316L | 1 | FLW0SS03270100 | 1 | 1.83 |
| | | | TOTAL FABRICATION WEIGHT | | 4.56 |

ERECTION MATERIALS

| PT NO | COMPONENT DESCRIPTION | N.S. | ITEM CODE | Q.TY | WEIGHT |
|---|---|---|---|---|---|
| 4 | Gasket Spiral Wound Thk. 3.2 mm ASME B16.20 300LB RF GSK AISI 316 + GRAPHITE c/w INNER RING | 1 | GSW0GK11210100 | 2 | 0.14 |
| 5 | 80 Stud Bolt + 2 Heavy Nuts ASME B1.1 ASTM A193 Gr.B7 - A194 Gr.2H Hot dip galvanized | 5/8 | SB20BO01870300 | 8 | 1.84 |
| 6 | Check Valve Piston EN ISO 15761 FLG 300LB RF CH03C02RFH | 1 | VDRNNN02620100 | 1 | 0.00 |
| | SUPPORTS | | | | |
| 7 | /PS-02019.1 | 1 | | 1 | 0.19 |
| | | | TOTAL ERECTION WEIGHT | | 2.17 |
| | | | TOTAL WEIGHT | | 6.73 |

| REFERENCE DOCUMENTS | |
|---|---|
| 123A90-DDL-PP-RE-70001 | STRESS ANALYSIS REPORT |
| 123A90-DDL-PR-PID-80027 | P&ID |
| 123A90-DDL-MAT-SP-60003 | INSULATION SPECIFICATION |
| 123A90-DDL-MAT-SP-60006 | COATING & PAINTING SPEC. |
| 123A90-DDL-PP-00-72000 | PIPING SUPPORT BOOK |
| 123A90-DDL-PP-SP-70029 | PIPING MATERIAL CLASS |

SYMBOLS LEGEND:
BUTT WELD · THREADED · HEAT TRACING
SOCKET · PIPE SUPPORT · INSULATED

| NDT EXAMINATION | | | | INSULATION & PAINTING | | |
|---|---|---|---|---|---|---|
| NDT TYPE | % | NDT TYPE | % | INS. TYPE | INS. THK. | INS. SURF. (m²) |
| RT | 10 | VT | 100 | N | | |
| INSPECTION CATEGORY | 2 | MT/PT | 10 | PAINT SYS. | BASE RAL | PAINT. SURF. (m²) |
| TESTING | | | | 6A | RAL 9002 | 0.14 |
| TEST FLUID | | TEST PRESS. (barg) | | HEAT TRACING | | |
| Water | | 60.00 | | - | | |
| PROCESS LINE DATA | | | | LINE DATA | | |
| DESIGN TEMP. (°C) | | DESIGN PRESS. (barg) | | STRESS SYS. | PED CAT. | PWHT |
| -46 | 80 | | 40 | - | Art. 4, par. 3 | No |

| Revision Number | Date | Description | Prepared by | Checked by | Approved by |
|---|---|---|---|---|---|
| 02 | 29/09/25 | AS-BUILT (ASB) | SPS | CBO | CGI |
| 01 | 26/07/24 | ACCEPTED FOR CONSTRUCTION | MMA | CBO | DLO |
| 00 | 07/06/24 | ISSUE FOR REVIEW | MMA | CBO | DLO |

ROSETTI MARINO

# CROSSWIND

DWG TYTLE:

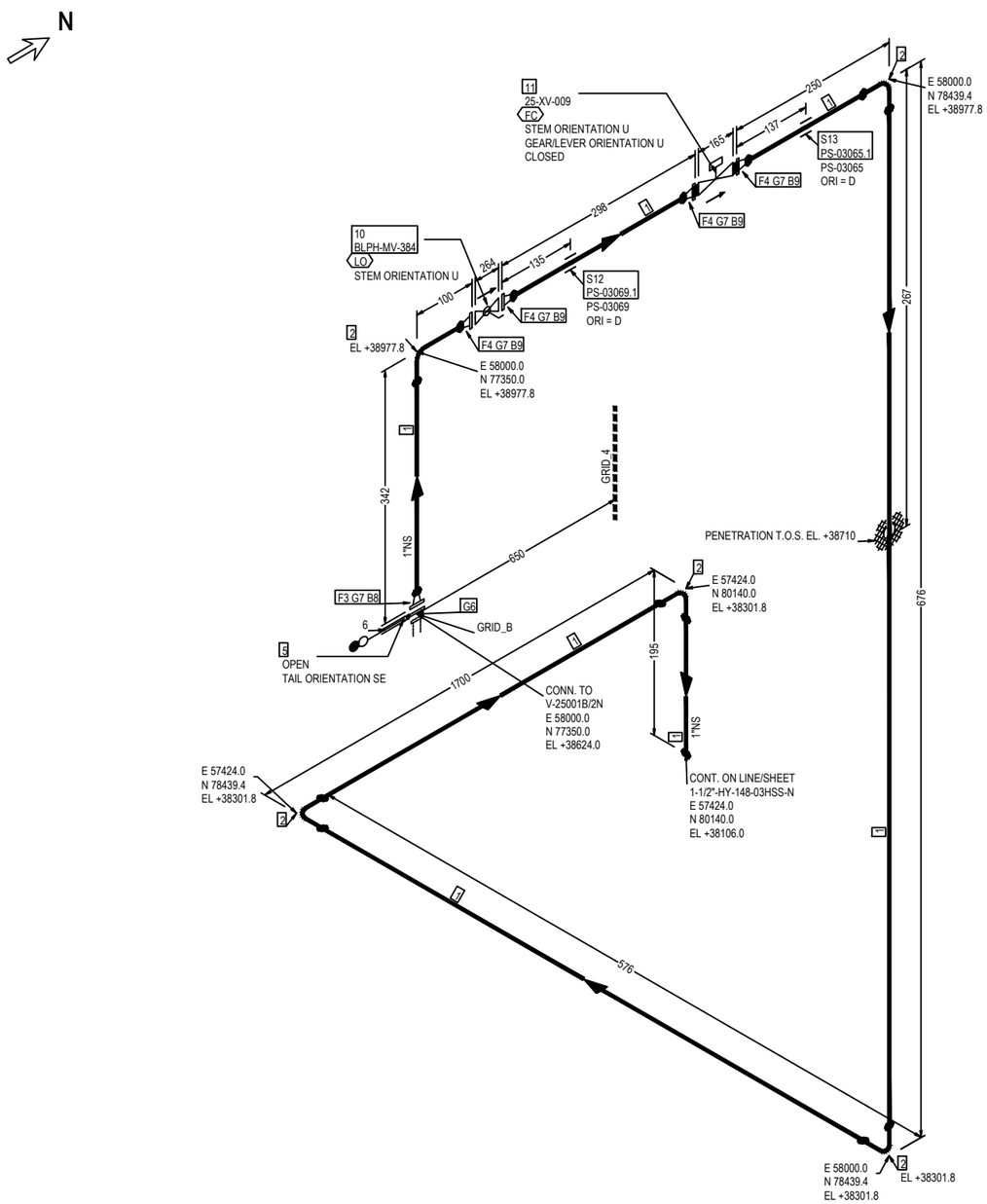
## 1"-N-128-03HSS-N

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK | SCALE N.A.

DRAWN SPS | CHECKED CBO | APPROVED CGI | DATE 29/09/25

SIZE: A3 | DRAWING NO. 123A90-DDL-PP-DI-71000_049 | SHEET 1/1 | REV. 02

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FABRICATION MATERIALS

| PT NO | COMPONENT DESCRIPTION | N.S. | ITEM CODE | Q.TY | WEIGHT |
|---|---|---|---|---|---|
| 1 | Pipe ASME B36.19M PE 3,38 SML ASTM A312 Gr.TP316/316L | 1 | PIPESS00480100 | 3447MM | 8.62 |
| 2 | 90 Deg Elbow Long Radius ASME B16.9 BW 3,38 WRS ASTM A403 Gr.WP316/316L | 1 | E90RSS00670100 | 5 | 0.70 |
| 3 | Flange WN For Jackscrews ASME B16.5 300LB RF 3,38 FRG ASTM A182 Gr.F316/316L | 1 | FLWDSS00770100 | 1 | 1.83 |
| 4 | Flange WN ASME B16.5 300LB RF 3,38 FRG ASTM A182 Gr.F316/316L | 1 | FLW0SS03270100 | 4 | 7.32 |
| | | | TOTAL FABRICATION WEIGHT | | 18.47 |

ERECTION MATERIALS

| PT NO | COMPONENT DESCRIPTION | N.S. | ITEM CODE | Q.TY | WEIGHT |
|---|---|---|---|---|---|
| 5 | Spectacle Blinds ASME B16.48 THRU BOLTED 300LB RF FPL ASTM A240 Gr.TP316/316L | 1 | BSPESS01580100 | 1 | 0.51 |
| 6 | Insulation Kit Ends as per ASME B16.5 300LB RF | 1 | SPIKNN01420100 | 1 | 0.07 |
| 7 | Gasket Spiral Wound Thk. 3.2 mm ASME B16.20 300LB RF GSK AISI 316 + GRAPHITE c/w INNER RING | 1 | GSW0GK11210100 | 5 | 0.35 |
| 8 | 105 Stud Bolt + 2 Heavy Nuts ASME B1.1 ASTM A193 Gr.B7 - A194 Gr.2H Hot dip galvanized | 5/8 | SB20BO04200300 | 4 | 1.08 |
| 9 | 80 Stud Bolt + 2 Heavy Nuts ASME B1.1 ASTM A193 Gr.B7 - A194 Gr.2H Hot dip galvanized | 5/8 | SB20BO01870300 | 16 | 3.68 |
| 10 | Double Block & Bleed Valve API 6D FLG 300LB RF DA03C01RFH | 1 | VLBBNN07190100 | 1 | 13.50 |
| | INSTRUMENTS | | | | |
| 11 | ON/OFF Ball Actuator Valve - 300#RF Flanged 25-XV-009 | 1 | | 1 | 41.00 |
| | SUPPORTS | | | | |
| 12 | /PS-03069.1 | 1 | | 1 | 0.19 |
| 13 | /PS-03065.1 | 1 | | 1 | 0.19 |
| | | | TOTAL ERECTION WEIGHT | | 60.57 |
| | | | TOTAL WEIGHT | | 79.04 |

| REFERENCE DOCUMENTS | |
|---|---|
| 123A90-DDL-PP-RE-70001 | STRESS ANALYSIS REPORT |
| 123A90-DDL-PR-PID-80016 | P&ID |
| 123A90-DDL-MAT-SP-60003 | INSULATION SPECIFICATION |
| 123A90-DDL-MAT-SP-60006 | COATING & PAINTING SPEC. |
| 123A90-DDL-PP-00-72000 | PIPING SUPPORT BOOK |
| 123A90-DDL-PP-SP-70029 | PIPING MATERIAL CLASS |

SYMBOLS LEGEND:
BUTT WELD · THREADED · HEAT TRACING · SOCKET · PIPE SUPPORT · INSULATED

| NDT EXAMINATION | | | |
|---|---|---|---|
| NDT TYPE | % | NDT TYPE | % |
| RT | 100 | VT | 100 |
| INSPECTION CATEGORY | 1 | MT/PT | 100Ratio |
| TESTING | | | |
| TEST FLUID | | TEST PRESS. [barg] | |
| Water | | 60 | |
| PROCESS LINE DATA | | | |
| DESIGN TEMP. [°C] | | DESIGN PRESS. [barg] | |
| -29 | 80 | | 40 |

| INSULATION & PAINTING | | |
|---|---|---|
| INS. TYPE | INS. THK. | INS. SURF. [m²] |
| N | | |
| PAINT SYS. | BASE RAL | PAINT. SURF. [m²] |
| 6A | RAL 9002 | 0.47 |
| HEAT TRACING | | |
| - | | |
| LINE DATA | | |
| STRESS SYS. | PED CAT. | PWHT |
| - | II | No |

| Revision Number | Date | Description | Prepared by | Checked by | Approved by |
|---|---|---|---|---|---|
| 02 | 29/09/25 | AS-BUILT (ASB) | SPS | CBO | CGI |
| 01 | 12/07/24 | ACCEPTED FOR CONSTRUCTION | MMA | CBO | DLO |
| 00 | 07/06/24 | ISSUE FOR REVIEW | MMA | CBO | DLO |

ROSETTI MARINO

# CROSSWIND

DWG TYTLE:

## 1"-HY-132-03HSS-N

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK

SCALE N.A.

DRAWN SPS | CHECKED CBO | APPROVED CGI | DATE 29/09/25

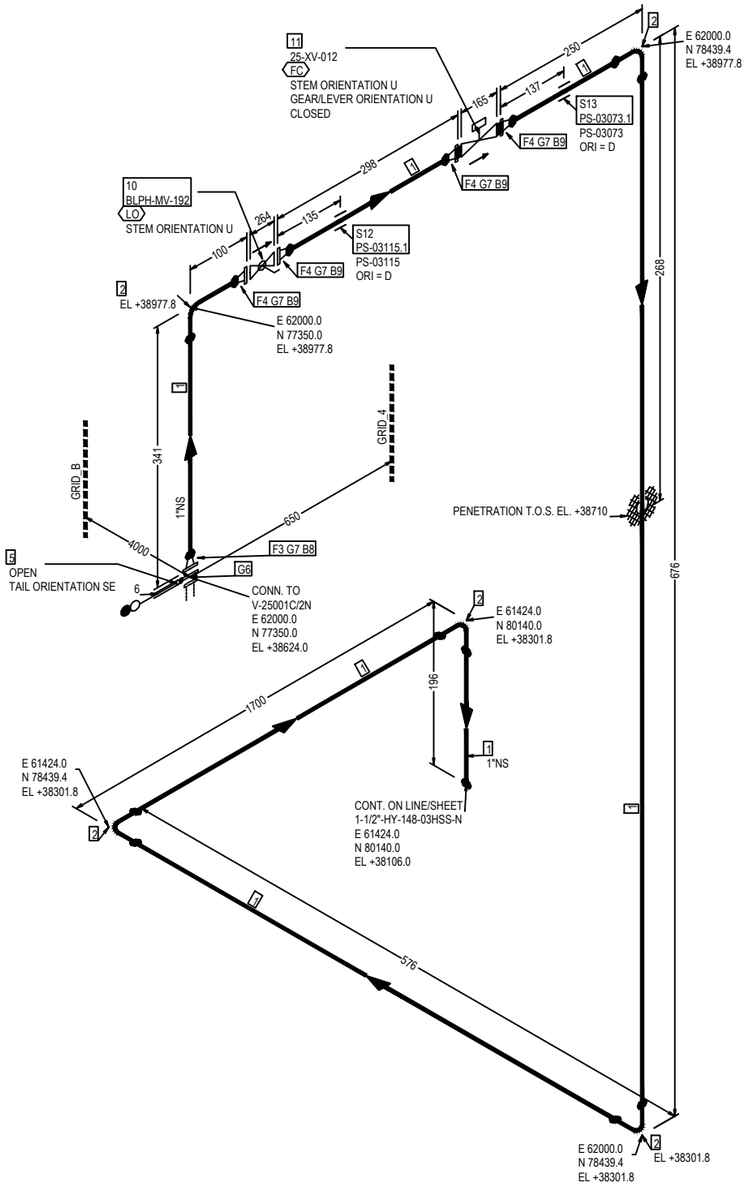
SIZE: A3

DRAWING NO. 123A90-DDL-PP-DI-71000_050

SHEET 1/1

REV. 02

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FABRICATION MATERIALS

| PT NO | COMPONENT DESCRIPTION | N.S. | ITEM CODE | Q.TY | WEIGHT |
|---|---|---|---|---|---|
| 1 | Pipe ASME B36.19M PE 3,38 SML ASTM A312 Gr.TP316/316L | 1 | PIPESS00480100 | 3447MM | 8.62 |
| 2 | 90 Deg Elbow Long Radius ASME B16.9 BW 3,38 WRS ASTM A403 Gr.WP316/316L | 1 | E90RSS00670100 | 5 | 0.70 |
| 3 | Flange WN For Jackscrews ASME B16.5 300LB RF 3,38 FRG ASTM A182 Gr.F316/316L | 1 | FLWDSS00770100 | 1 | 1.83 |
| 4 | Flange WN ASME B16.5 300LB RF 3,38 FRG ASTM A182 Gr.F316/316L | 1 | FLW0SS03270100 | 4 | 7.32 |
| | | | TOTAL FABRICATION WEIGHT | | 18.47 |

ERECTION MATERIALS

| PT NO | COMPONENT DESCRIPTION | N.S. | ITEM CODE | Q.TY | WEIGHT |
|---|---|---|---|---|---|
| 5 | Spectacle Blinds ASME B16.48 THRU BOLTED 300LB RF FPL ASTM A240 Gr.TP316/316L | 1 | BSPESS01580100 | 1 | 0.51 |
| 6 | Insulation Kit Ends as per ASME B16.5 300LB RF | 1 | SPIKNN01420100 | 1 | 0.07 |
| 7 | Gasket Spiral Wound Thk. 3.2 mm ASME B16.20 300LB RF GSK AISI 316 + GRAPHITE c/w INNER RING | 1 | GSW0GK11210100 | 5 | 0.35 |
| 8 | 105 Stud Bolt + 2 Heavy Nuts ASME B1.1 ASTM A193 Gr.B7 - A194 Gr.2H Hot dip galvanized | 5/8 | SB20BO04200300 | 4 | 1.08 |
| 9 | 80 Stud Bolt + 2 Heavy Nuts ASME B1.1 ASTM A193 Gr.B7 - A194 Gr.2H Hot dip galvanized | 5/8 | SB20BO01870300 | 16 | 3.68 |
| 10 | Double Block & Bleed Valve API 6D FLG 300LB RF DA03C01RFH | 1 | VLBBNN07190100 | 1 | 13.50 |
| | INSTRUMENTS | | | | |
| 11 | ON/OFF Ball Actuator Valve - 300#RF Flanged 25-XV-012 | 1 | | 1 | 41.00 |
| | SUPPORTS | | | | |
| 12 | /PS-03115.1 | 1 | | 1 | 0.19 |
| 13 | /PS-03073.1 | 1 | | 1 | 0.19 |
| | | | TOTAL ERECTION WEIGHT | | 60.57 |
| | | | TOTAL WEIGHT | | 79.04 |

| REFERENCE DOCUMENTS | |
|---|---|
| 123A90-DDL-PP-RE-70001 | STRESS ANALYSIS REPORT |
| 123A90-DDL-PR-PID-80017 | P&ID |
| 123A90-DDL-MAT-SP-60003 | INSULATION SPECIFICATION |
| 123A90-DDL-MAT-SP-60006 | COATING & PAINTING SPEC. |
| 123A90-DDL-PP-00-72000 | PIPING SUPPORT BOOK |
| 123A90-DDL-PP-SP-70029 | PIPING MATERIAL CLASS |

SYMBOLS LEGEND:
BUTT WELD — THREADED — HEAT TRACING
SOCKET — PIPE SUPPORT — INSULATED

| NDT EXAMINATION | | | | INSULATION & PAINTING | | |
|---|---|---|---|---|---|---|
| NDT TYPE | % | NDT TYPE | % | INS. TYPE | INS. THK. | INS. SURF. (m²) |
| RT | 100 | VT | 100 | N | | |
| INSPECTION CATEGORY | 1 | MT/PT | 100Ratio | PAINT SYS. | BASE RAL | PAINT. SURF. (m²) |
| TESTING | | | | 6A | RAL 9002 | 0.47 |
| TEST FLUID | | TEST PRESS. (barg) | | HEAT TRACING | | |
| Water | | 60 | | - | | |

| PROCESS LINE DATA | | | | LINE DATA | | |
|---|---|---|---|---|---|---|
| DESIGN TEMP. (°C) | | DESIGN PRESS. (barg) | | STRESS SYS. | PED CAT. | PWHT |
| -29 | 80 | | 40 | - | II | No |

| Revision Number | Date | Description | Prepared by | Checked by | Approved by |
|---|---|---|---|---|---|
| 02 | 29/09/25 | AS-BUILT (ASB) | SPS | CBO | CGI |
| 01 | 12/07/24 | ACCEPTED FOR CONSTRUCTION | MMA | CBO | DLO |
| 00 | 07/06/24 | ISSUE FOR REVIEW | MMA | CBO | DLO |

ROSETTI MARINO

# CROSSWIND

DWG TYTLE:

## 1"-HY-133-03HSS-N

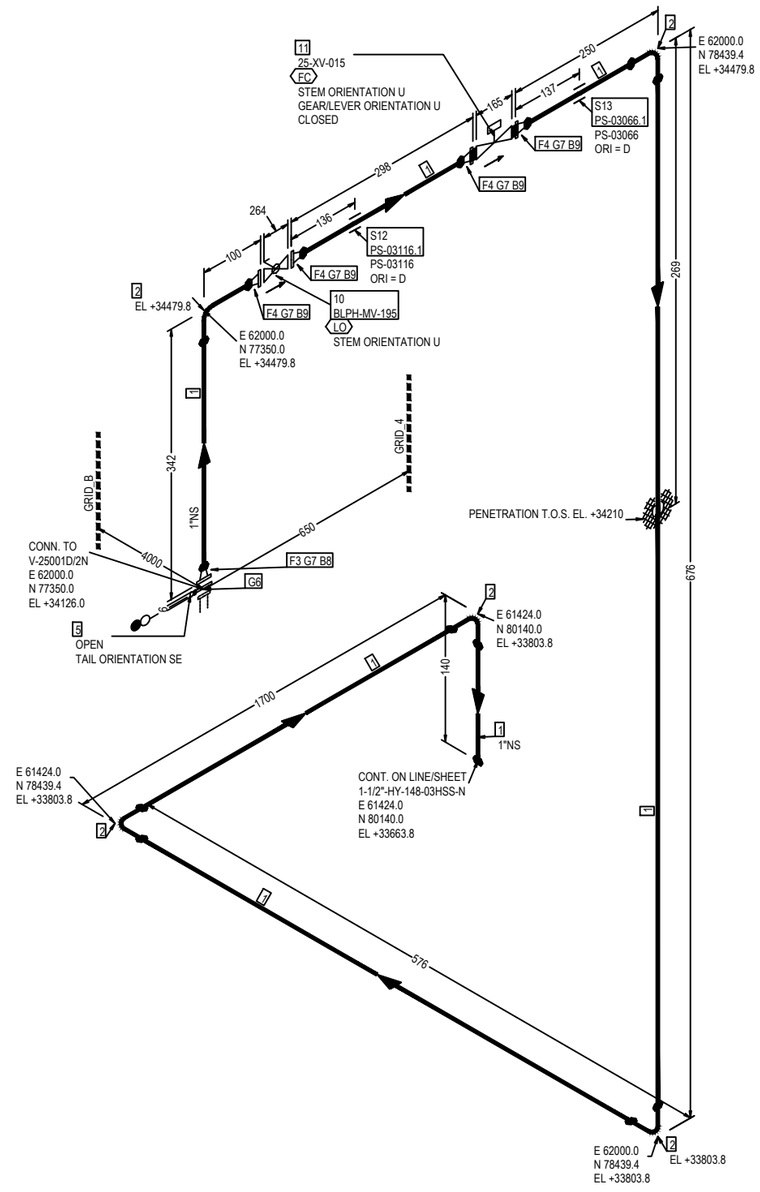
CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK

SCALE N.A.

DRAWN SPS | CHECKED CBO | APPROVED CGI | DATE 29/09/25

SIZE: A3 | DRAWING NO. 123A90-DDL-PP-DI-71000_051 | SHEET 1/1 | REV. 02

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FABRICATION MATERIALS

| PT NO | COMPONENT DESCRIPTION | N.S. | ITEM CODE | Q.TY | WEIGHT |
|---|---|---|---|---|---|
| 1 | Pipe ASME B36.19M PE 3,38 SML ASTM A312 Gr.TP316/316L | 1 | PIPESS00480100 | 3392MM | 8.48 |
| 2 | 90 Deg Elbow Long Radius ASME B16.9 BW 3,38 WRS ASTM A403 Gr.WP316/316L | 1 | E90RSS00670100 | 5 | 0.70 |
| 3 | Flange WN For Jackscrews ASME B16.5 300LB RF 3,38 FRG ASTM A182 Gr.F316/316L | 1 | FLWDSS00770100 | 1 | 1.83 |
| 4 | Flange WN ASME B16.5 300LB RF 3,38 FRG ASTM A182 Gr.F316/316L | 1 | FLW0SS03270100 | 4 | 7.32 |
| | | | TOTAL FABRICATION WEIGHT | | 18.33 |

ERECTION MATERIALS

| PT NO | COMPONENT DESCRIPTION | N.S. | ITEM CODE | Q.TY | WEIGHT |
|---|---|---|---|---|---|
| 5 | Spectacle Blinds ASME B16.48 THRU BOLTED 300LB RF FPL ASTM A240 Gr.TP316/316L | 1 | BSPESS01580100 | 1 | 0.51 |
| 6 | Insulation Kit Ends as per ASME B16.5 300LB RF | 1 | SPIKNN01420100 | 1 | 0.07 |
| 7 | Gasket Spiral Wound Thk. 3.2 mm ASME B16.20 300LB RF GSK AISI 316 + GRAPHITE c/w INNER RING | 1 | GSW0GK11210100 | 5 | 0.35 |
| 8 | 105 Stud Bolt + 2 Heavy Nuts ASME B1.1 ASTM A193 Gr.B7 - A194 Gr.2H Hot dip galvanized | 5/8 | SB20BO04200300 | 4 | 1.08 |
| 9 | 80 Stud Bolt + 2 Heavy Nuts ASME B1.1 ASTM A193 Gr.B7 - A194 Gr.2H Hot dip galvanized | 5/8 | SB20BO01870300 | 16 | 3.68 |
| 10 | Double Block & Bleed Valve API 6D FLG 300LB RF DA03C01RFH | 1 | VLBBNN07190100 | 1 | 13.50 |
| | INSTRUMENTS | | | | |
| 11 | ON/OFF Ball Actuator Valve - 300#RF Flanged 25-XV-015 | 1 | | 1 | 41.00 |
| | SUPPORTS | | | | |
| 12 | /PS-03116.1 | 1 | | 1 | 0.19 |
| 13 | /PS-03066.1 | 1 | | 1 | 0.19 |
| | | | TOTAL ERECTION WEIGHT | | 60.57 |
| | | | TOTAL WEIGHT | | 78.90 |

| REFERENCE DOCUMENTS | |
|---|---|
| 123A90-DDL-PP-RE-70001 | STRESS ANALYSIS REPORT |
| 123A90-DDL-PR-PID-80018 | P&ID |
| 123A90-DDL-MAT-SP-60003 | INSULATION SPECIFICATION |
| 123A90-DDL-MAT-SP-60006 | COATING & PAINTING SPEC. |
| 123A90-DDL-PP-00-72000 | PIPING SUPPORT BOOK |
| 123A90-DDL-PP-SP-70029 | PIPING MATERIAL CLASS |

SYMBOLS LEGEND:
BUTT WELD · THREADED · HEAT TRACING · SOCKET · PIPE SUPPORT · INSULATED

| NDT EXAMINATION | | | |
|---|---|---|---|
| NDT TYPE | % | NDT TYPE | % |
| RT | 100 | VT | 100 |
| INSPECTION CATEGORY | 1 | MT/PT | 100Ratio |
| TESTING | | | |
| TEST FLUID | | TEST PRESS. [barg] | |
| Water | | 60 | |
| PROCESS LINE DATA | | | |
| DESIGN TEMP. [°C] | | DESIGN PRESS. [barg] | |
| -29 | 80 | | 40 |

| INSULATION & PAINTING | | |
|---|---|---|
| INS. TYPE | INS. THK. | INS. SURF. [m²] |
| N | | |
| PAINT SYS. | BASE RAL | PAINT. SURF. [m²] |
| 6A | RAL 9002 | 0.46 |
| HEAT TRACING | | |
| - | | |
| LINE DATA | | |
| STRESS SYS. | PED CAT. | PWHT |
| - | II | No |

| Revision Number | Date | Description | Prepared by | Checked by | Approved by |
|---|---|---|---|---|---|
| 02 | 29/09/25 | AS-BUILT (ASB) | SPS | CBO | CGI |
| 01 | 12/07/24 | ACCEPTED FOR CONSTRUCTION | MMA | CBO | DLO |
| 00 | 07/06/24 | ISSUE FOR REVIEW | MMA | CBO | DLO |

ROSETTI MARINO

# CROSSWIND

DWG TYTLE:

## 1"-HY-134-03HSS-N

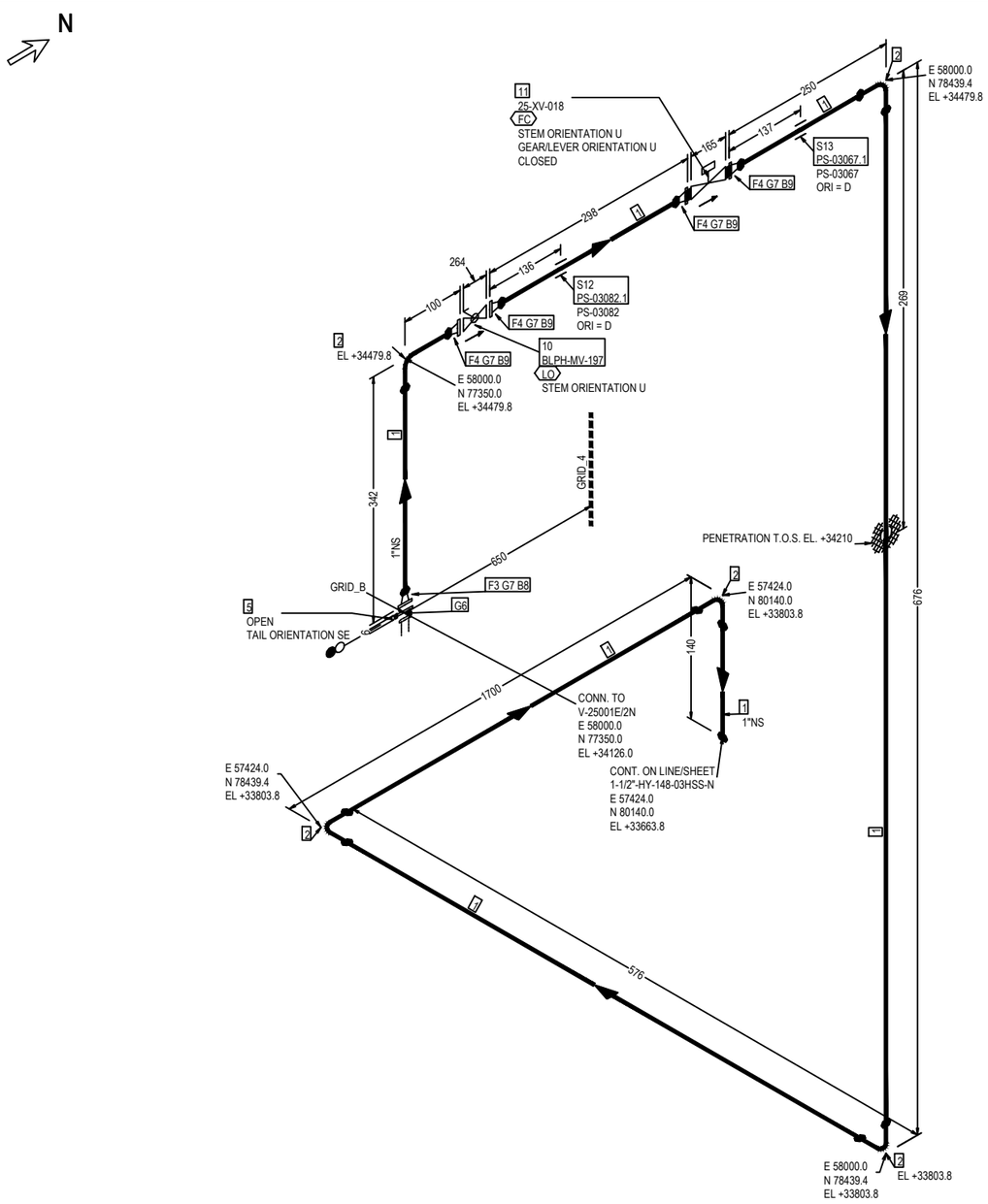
CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK

SCALE N.A.

DRAWN SPS | CHECKED CBO | APPROVED CGI | DATE 29/09/25

SIZE: A3 | DRAWING NO. 123A90-DDL-PP-DI-71000_052 | SHEET 1/1 | REV. 02

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FABRICATION MATERIALS

| PT NO | COMPONENT DESCRIPTION | N.S. | ITEM CODE | Q.TY | WEIGHT |
|---|---|---|---|---|---|
| 1 | Pipe ASME B36.19M PE 3,38 SML ASTM A312 Gr.TP316/316L | 1 | PIPESS00480100 | 3392MM | 8.48 |
| 2 | 90 Deg Elbow Long Radius ASME B16.9 BW 3,38 WRS ASTM A403 Gr.WP316/316L | 1 | E90RSS00670100 | 5 | 0.70 |
| 3 | Flange WN For Jackscrews ASME B16.5 300LB RF 3,38 FRG ASTM A182 Gr.F316/316L | 1 | FLWDSS00770100 | 1 | 1.83 |
| 4 | Flange WN ASME B16.5 300LB RF 3,38 FRG ASTM A182 Gr.F316/316L | 1 | FLW0SS03270100 | 4 | 7.32 |
| | | | TOTAL FABRICATION WEIGHT | | 18.33 |

ERECTION MATERIALS

| PT NO | COMPONENT DESCRIPTION | N.S. | ITEM CODE | Q.TY | WEIGHT |
|---|---|---|---|---|---|
| 5 | Spectacle Blinds ASME B16.48 THRU BOLTED 300LB RF FPL ASTM A240 Gr.TP316/316L | 1 | BSPESS01580100 | 1 | 0.51 |
| 6 | Insulation Kit Ends as per ASME B16.5 300LB RF | 1 | SPIKNN01420100 | 1 | 0.07 |
| 7 | Gasket Spiral Wound Thk. 3.2 mm ASME B16.20 300LB RF GSK AISI 316 + GRAPHITE c/w INNER RING | 1 | GSW0GK11210100 | 5 | 0.35 |
| 8 | 105 Stud Bolt + 2 Heavy Nuts ASME B1.1 ASTM A193 Gr.B7 - A194 Gr.2H Hot dip galvanized | 5/8 | SB20BO04200300 | 4 | 1.08 |
| 9 | 80 Stud Bolt + 2 Heavy Nuts ASME B1.1 ASTM A193 Gr.B7 - A194 Gr.2H Hot dip galvanized | 5/8 | SB20BO01870300 | 16 | 3.68 |
| 10 | Double Block & Bleed Valve API 6D FLG 300LB RF DA03C01RFH | 1 | VLBBNN07190100 | 1 | 13.50 |
| | INSTRUMENTS | | | | |
| 11 | ON/OFF Ball Actuator Valve - 300#RF Flanged 25-XV-018 | 1 | | 1 | 41.00 |
| | SUPPORTS | | | | |
| 12 | /PS-03082.1 | 1 | | 1 | 0.19 |
| 13 | /PS-03067.1 | 1 | | 1 | 0.19 |
| | | | TOTAL ERECTION WEIGHT | | 60.57 |
| | | | TOTAL WEIGHT | | 79.00 |

| REFERENCE DOCUMENTS | |
|---|---|
| 123A90-DDL-PP-RE-70001 | STRESS ANALYSIS REPORT |
| 123A90-DDL-PR-PID-80019 | P&ID |
| 123A90-DDL-MAT-SP-60003 | INSULATION SPECIFICATION |
| 123A90-DDL-MAT-SP-60006 | COATING & PAINTING SPEC. |
| 123A90-DDL-PP-00-72000 | PIPING SUPPORT BOOK |
| 123A90-DDL-PP-SP-70029 | PIPING MATERIAL CLASS |

SYMBOLS LEGEND:
BUTT WELD — THREADED — HEAT TRACING
SOCKET — PIPE SUPPORT — INSULATED

| NDT EXAMINATION | | | |
|---|---|---|---|
| NDT TYPE | % | NDT TYPE | % |
| RT | 100 | VT | 100 |
| INSPECTION CATEGORY | 1 | MT/PT | 100Ratio |
| TESTING | | | |
| TEST FLUID | | TEST PRESS.(barg) | |
| Water | | 60 | |
| PROCESS LINE DATA | | | |
| DESIGN TEMP. (°C) | | DESIGN PRESS.(barg) | |
| -29 | 80 | | 40 |

| INSULATION & PAINTING | | |
|---|---|---|
| INS. TYPE | INS. THK. | INS. SURF. (m²) |
| N | | |
| PAINT SYS. | BASE RAL | PAINT. SURF. (m²) |
| 6A | RAL 9002 | 0.46 |
| HEAT TRACING | | |
| - | | |
| LINE DATA | | |
| STRESS SYS. | PED CAT. | PWHT |
| - | II | No |

| Revision Number | Date | Description | Prepared by | Checked by | Approved by |
|---|---|---|---|---|---|
| 02 | 29/09/25 | AS-BUILT (ASB) | SPS | CBO | CGI |
| 01 | 12/07/24 | ACCEPTED FOR CONSTRUCTION | MMA | CBO | DLO |
| 00 | 07/06/24 | ISSUE FOR REVIEW | MMA | CBO | DLO |

ROSETTI MARINO

# CROSSWIND

DWG TYTLE:

# 1"-HY-135-03HSS-N

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK

SCALE N.A.

DRAWN SPS | CHECKED CBO | APPROVED CGI | DATE 29/09/25

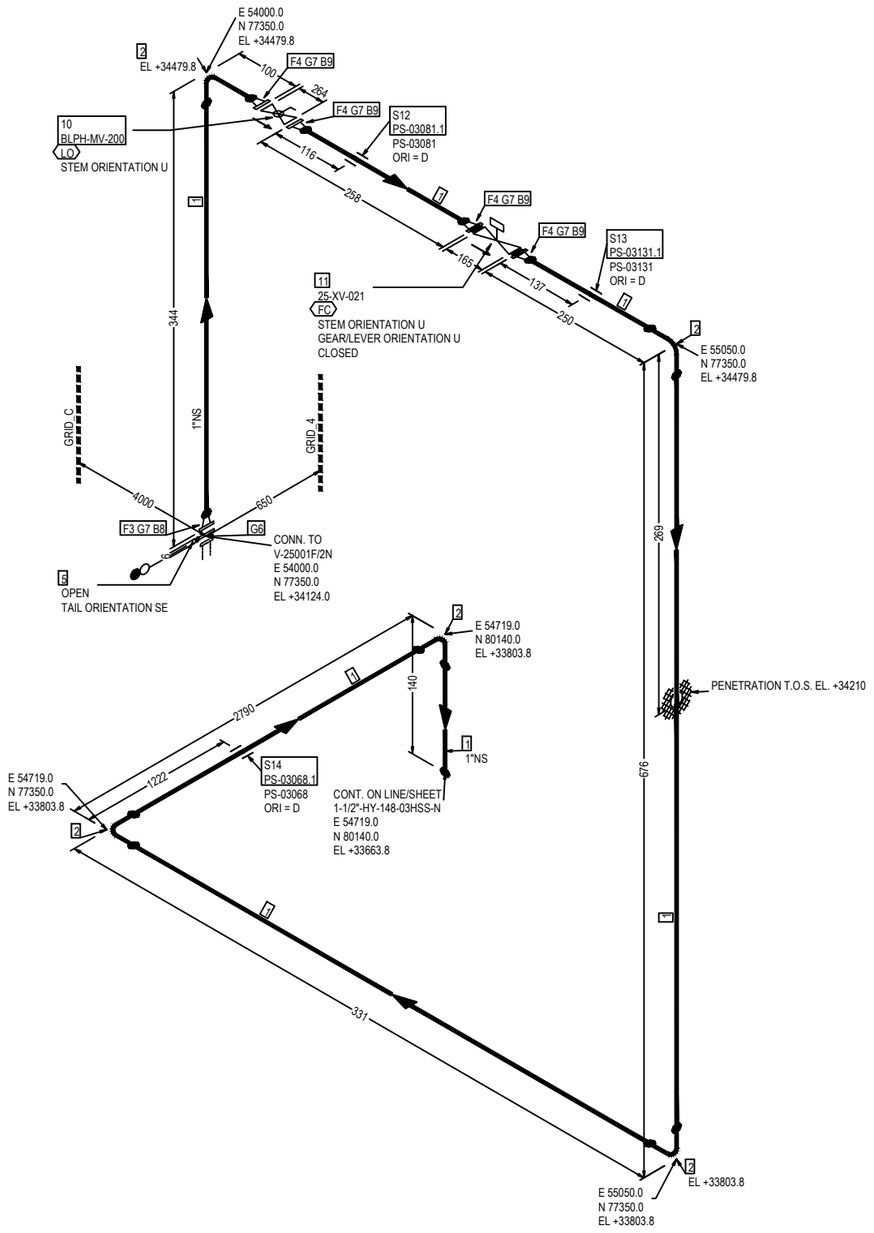
SIZE: A3

DRAWING NO. 123A90-DDL-PP-DI-71000_053

SHEET 1/1

REV. 02

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FABRICATION MATERIALS

| PT NO | COMPONENT DESCRIPTION | N.S. | ITEM CODE | Q.TY | WEIGHT |
|---|---|---|---|---|---|
| 1 | Pipe ASME B36.19M PE 3,38 SML ASTM A312 Gr.TP316/316L | 1 | PIPESS00480100 | 4199MM | 10.50 |
| 2 | 90 Deg Elbow Long Radius ASME B16.9 BW 3,38 WRS ASTM A403 Gr.WP316/316L | 1 | E90RSS00670100 | 5 | 0.70 |
| 3 | Flange WN For Jackscrews ASME B16.5 300LB RF 3,38 FRG ASTM A182 Gr.F316/316L | 1 | FLWDSS00770100 | 1 | 1.83 |
| 4 | Flange WN ASME B16.5 300LB RF 3,38 FRG ASTM A182 Gr.F316/316L | 1 | FLW0SS03270100 | 4 | 7.32 |
| | | | TOTAL FABRICATION WEIGHT | | 20.35 |

ERECTION MATERIALS

| PT NO | COMPONENT DESCRIPTION | N.S. | ITEM CODE | Q.TY | WEIGHT |
|---|---|---|---|---|---|
| 5 | Spectacle Blinds ASME B16.48 THRU BOLTED 300LB RF FPL ASTM A240 Gr.TP316/316L | 1 | BSPESS01580100 | 1 | 0.51 |
| 6 | Insulation Kit Ends as per ASME B16.5 300LB RF | 1 | SPIKNN01420100 | 1 | 0.07 |
| 7 | Gasket Spiral Wound Thk. 3.2 mm ASME B16.20 300LB RF GSK AISI 316 + GRAPHITE c/w INNER RING | 1 | GSW0GK11210100 | 5 | 0.35 |
| 8 | 105 Stud Bolt + 2 Heavy Nuts ASME B1.1 ASTM A193 Gr.B7 - A194 Gr.2H Hot dip galvanized | 5/8 | SB20BO04200300 | 4 | 1.08 |
| 9 | 80 Stud Bolt + 2 Heavy Nuts ASME B1.1 ASTM A193 Gr.B7 - A194 Gr.2H Hot dip galvanized | 5/8 | SB20BO01870300 | 16 | 3.68 |
| 10 | Double Block & Bleed Valve API 6D FLG 300LB RF DA03C01RFH | 1 | VLBBNN07190100 | 1 | 13.50 |
| | INSTRUMENTS | | | | |
| 11 | ON/OFF Ball Actuator Valve - 300#RF Flanged 25-XV-021 | 1 | | 1 | 41.00 |
| | SUPPORTS | | | | |
| 12 | /PS-03081.1 | 1 | | 1 | 0.19 |
| 13 | /PS-03131.1 | 1 | | 1 | 0.19 |
| 14 | /PS-03068.1 | 1 | | 1 | 0.19 |
| | | | TOTAL ERECTION WEIGHT | | 60.76 |
| | | | TOTAL WEIGHT | | 81.11 |

| REFERENCE DOCUMENTS | |
|---|---|
| 123A90-DDL-PP-RE-70001 | STRESS ANALYSIS REPORT |
| 123A90-DDL-PR-PID-80020 | P&ID |
| 123A90-DDL-MAT-SP-60003 | INSULATION SPECIFICATION |
| 123A90-DDL-MAT-SP-60006 | COATING & PAINTING SPEC. |
| 123A90-DDL-PP-00-72000 | PIPING SUPPORT BOOK |
| 123A90-DDL-PP-SP-70029 | PIPING MATERIAL CLASS |

SYMBOLS LEGEND:
BUTT WELD · THREADED · HEAT TRACING · SOCKET · PIPE SUPPORT · INSULATED

| NDT EXAMINATION | | | | INSULATION & PAINTING | | |
|---|---|---|---|---|---|---|
| NDT TYPE | % | NDT TYPE | % | INS. TYPE | INS. THK. | INS. SURF. (m²) |
| RT | 100 | VT | 100 | N | | |
| INSPECTION CATEGORY | 1 | MT/PT | 100Ratio | PAINT SYS. | BASE RAL | PAINT. SURF. (m²) |
| TESTING | | | | 6A | RAL 9002 | 0.55 |
| TEST FLUID | | TEST PRESS. (barg) | | HEAT TRACING | | |
| Water | | 60 | | - | | |
| PROCESS LINE DATA | | | | LINE DATA | | |
| DESIGN TEMP. (°C) | | DESIGN PRESS. (barg) | | STRESS SYS. | PED CAT. | PWHT |
| -29 | 80 | | 40 | - | II | No |

| Revision Number | Date | Description | Prepared by | Checked by | Approved by |
|---|---|---|---|---|---|
| 02 | 29/09/25 | AS-BUILT (ASB) | SPS | CBO | CGI |
| 01 | 12/07/24 | ACCEPTED FOR CONSTRUCTION | MMA | CBO | DLO |
| 00 | 07/06/24 | ISSUE FOR REVIEW | MMA | CBO | DLO |

ROSETTI MARINO

# CROSSWIND

DWG TYTLE:

## 1"-HY-136-03HSS-N

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK

SCALE N.A.

DRAWN SPS | CHECKED CBO | APPROVED CGI | DATE 29/09/25

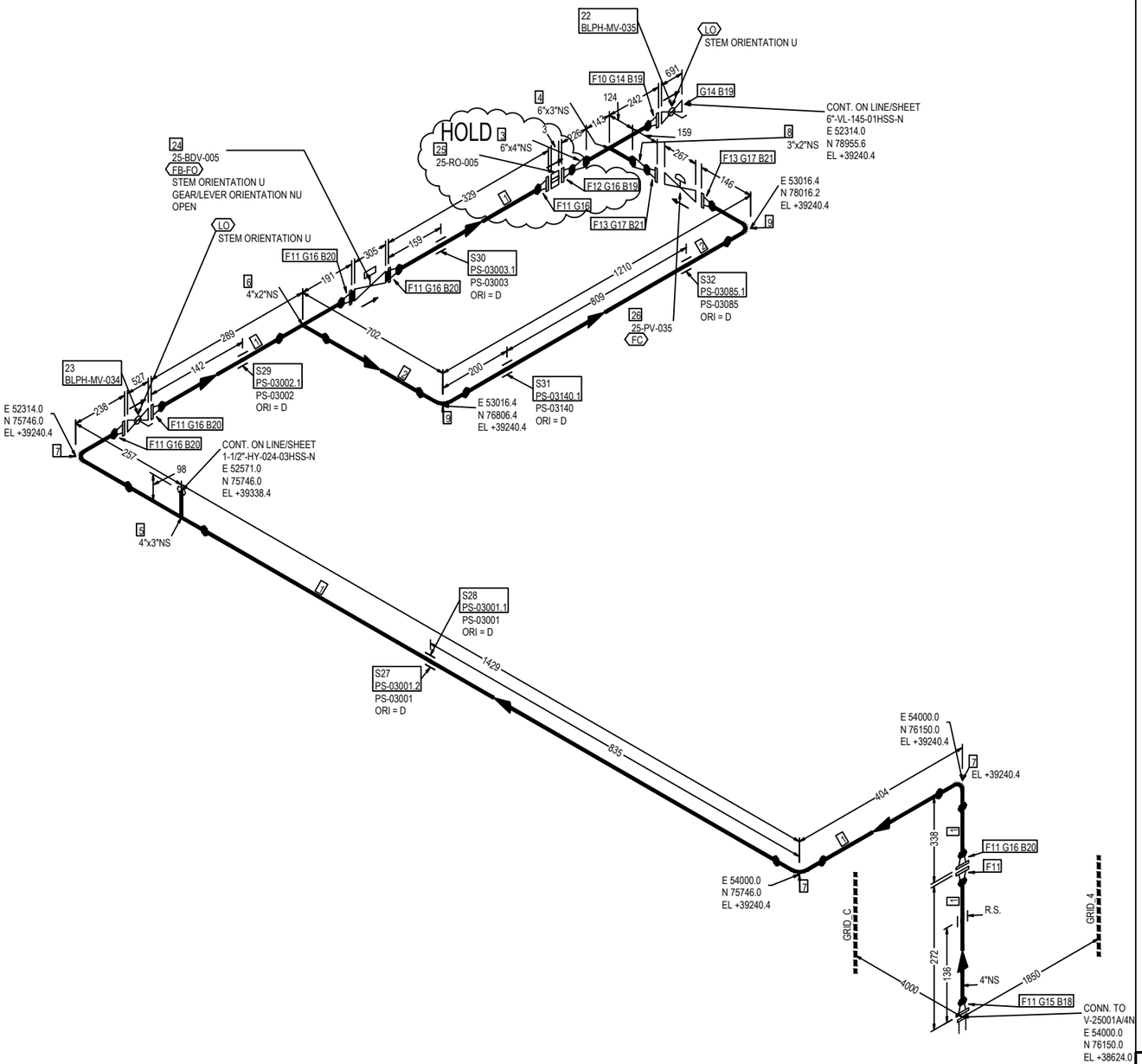
SIZE: A3

DRAWING NO. 123A90-DDL-PP-DI-71000_054

SHEET 1/1

REV. 02

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FABRICATION MATERIALS

| PT NO | COMPONENT DESCRIPTION | N.S. | ITEM CODE | Q.TY | WEIGHT |
|---|---|---|---|---|---|
| 1 | Pipe ASME B36.19M PE 3,05 SML ASTM A312 Gr.TP316/316L | 4 | PIPESS00560400 | 1727MM | 14.68 |
| 2 | Pipe ASME B36.19M PE 2,77 SML ASTM A312 Gr.TP316/316L | 2 | PIPESS00540200 | 1595MM | 6.38 |
| 3 | Reducer Concentric ASME B16.9 BW 7,11x3,05 WRS ASTM A403 Gr.WP316/316L | 6 x 4 | REC0SS03250604 | 1 | 3.56 |
| 4 | Tee Reducing ASME B16.9 BW 7,11x3,05 WRS ASTM A403 Gr.WP316/316L | 6 x 3 | TER0SS03820603 | 1 | 16.24 |
| 5 | Tee Reducing ASME B16.9 BW 3,05x3,05 WRS ASTM A403 Gr.WP316/316L | 4 x 3 | TER0SS01680403 | 1 | 2.66 |
| 6 | Tee Reducing ASME B16.9 BW 3,05x2,77 WRS ASTM A403 Gr.WP316/316L | 4 x 2 | TER0SS03250402 | 1 | 2.57 |
| 7 | 90 Deg Elbow Long Radius ASME B16.9 BW 3,05 WRS ASTM A403 Gr.WP316/316L | 4 | E90RSS01020400 | 3 | 6.03 |
| 8 | Reducer Concentric ASME B16.9 BW 3,05x2,77 WRS ASTM A403 Gr.WP316/316L | 3 x 2 | REC0SS02770302 | 1 | 0.51 |
| 9 | 90 Deg Elbow Long Radius ASME B16.9 BW 2,77 WRS ASTM A403 Gr.WP316/316L | 2 | E90RSS00010200 | 2 | 0.94 |
| 10 | Flange WN ASME B16.5 300LB RF 7,11 FRG ASTM A182 Gr.F316/316L | 6 | FLW0SS03290600 | 1 | 19.29 |
| 11 | Flange WN ASME B16.5 300LB RF 3,05 FRG ASTM A182 Gr.F316/316L | 4 | FLW0SS03370400 | 8 | 89.36 |
| 12 | Flange WN For Jackscrews ASME B16.5 300LB RF 3,05 FRG ASTM A182 Gr.F316/316L | 4 | FLWDSS00030400 | 1 | 11.17 |
| 13 | Flange WN ASME B16.5 300LB RF 2,77 FRG ASTM A182 Gr.F316/316L | 2 | FLW0SS00180200 | 2 | 8.32 |
| | | | TOTAL FABRICATION WEIGHT | | 181.71 |

ERECTION MATERIALS

| PT NO | COMPONENT DESCRIPTION | N.S. | ITEM CODE | Q.TY | WEIGHT |
|---|---|---|---|---|---|
| 14 | Gasket Spiral Wound Thk. 3.2 mm ASME B16.20 300LB RF GSK AISI 316 + GRAPHITE c/w INNER RING | 6 | GSW0GK11260600 | 2 | 0.90 |
| 15 | Insulation Kit Ends as per ASME B16.5 300LB RF | 4 | SPIKNN00700400 | 1 | 0.27 |
| 16 | Gasket Spiral Wound Thk. 3.2 mm ASME B16.20 300LB RF GSK AISI 316 + GRAPHITE c/w INNER RING | 4 | GSW0GK11250400 | 7 | 2.59 |
| 17 | Gasket Spiral Wound Thk. 3.2 mm ASME B16.20 300LB RF GSK AISI 316 + GRAPHITE c/w INNER RING | 2 | GSW0GK11230200 | 2 | 0.26 |
| 18 | 130 Stud Bolt + 2 Heavy Nuts ASME B1.1 ASTM A193 Gr.B7 - A194 Gr.2H Hot dip galvanized | 3/4 | SB20BO19820400 | 8 | 3.84 |
| 19 | 125 Stud Bolt + 2 Heavy Nuts ASME B1.1 ASTM A193 Gr.B7 - A194 Gr.2H Hot dip galvanized | 3/4 | SB20BO01660400 | 32 | 14.72 |
| 20 | 115 Stud Bolt + 2 Heavy Nuts ASME B1.1 ASTM A193 Gr.B7 - A194 Gr.2H Hot dip galvanized | 3/4 | SB20BO01650400 | 40 | 17.60 |
| 21 | 90 Stud Bolt + 2 Heavy Nuts ASME B1.1 ASTM A193 Gr.B7 - A194 Gr.2H Hot dip galvanized | 5/8 | SB20BO04190300 | 16 | 4.00 |
| 22 | Double Block & Bleed Valve API 6D FLG 300LB RF DA03C01RFH | 6 | VLBBNN07240600 | 1 | 350.00 |
| 23 | Double Block & Bleed Valve API 6D FLG 300LB RF DA03C01RFH | 4 | VLBBNN07230400 | 1 | 170.00 |
| | INSTRUMENTS | | | | |
| 24 | ON/OFF Ball Actuator Valve - 300#RF Flanged 25-BDV-005 | 4 | | 1 | 169.00 |
| 25 | Restriction Orifice 300#RF 25-RO-005 | 4 | | 1 | 1.00 |
| 26 | Control Valve - FLG 300 #RF 25-PV-035 | 2 | | 1 | 41.00 |
| | SUPPORTS | | | | |
| 27 | /PS-03001.2 | 4 | | 1 | 0.06 |
| 28 | /PS-03001.1 | 4 | | 1 | 0.06 |
| 29 | /PS-03002.1 | 4 | | 1 | 0.67 |
| 30 | /PS-03003.1 | 4 | | 1 | 0.67 |
| 31 | /PS-03140.1 | 2 | | 1 | 0.33 |
| 32 | /PS-03085.1 | 2 | | 1 | 0.33 |
| | | | TOTAL ERECTION WEIGHT | | 777.30 |
| | | | TOTAL WEIGHT | | 959.01 |

HOLD

| REFERENCE DOCUMENTS | | NDT EXAMINATION | | | | INSULATION & PAINTING | | | Revision Number | Date | Description | Prepared by | Checked by | Approved by |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 123A90-DDL-PP-RE-70001 | STRESS ANALYSIS REPORT | NDT TYPE | % | NDT TYPE | % | INS. TYPE | INS. THK. | INS. SURF. (m²) | | | | | | |
| 123A90-DDL-PR-PID-80015 | P&ID | RT | 100 | VT | 100 | N | | | | | | | | |
| 123A90-DDL-MAT-SP-60003 | INSULATION SPECIFICATION | INSPECTION CATEGORY | 1 | MT/PT | 100Ratio | PAINT SYS. | BASE RAL | PAINT. SURF. (m²) | | | | | | |
| 123A90-DDL-MAT-SP-60006 | COATING & PAINTING SPEC. | TESTING | | | | 6A | RAL 9002 | 2.58 | | | | | | |
| 123A90-DDL-PP-00-72000 | PIPING SUPPORT BOOK | TEST FLUID | | TEST PRESS. (barg) | | HEAT TRACING | | | | | | | | |
| 123A90-DDL-PP-SP-70029 | PIPING MATERIAL CLASS | Water | | 60 | | - | | | 02 | 29/09/25 | AS-BUILT (ASB) | SPS | CBO | CGI |
| SYMBOLS LEGEND: BUTT WELD, THREADED, HEAT TRACING, SOCKET, PIPE SUPPORT, INSULATED | | PROCESS LINE DATA | | | | LINE DATA | | | 01 | 12/07/24 | ACCEPTED FOR CONSTRUCTION | MMA | CBO | DLO |
| | | DESIGN TEMP. (°C) | | DESIGN PRESS. (barg) | | STRESS SYS. | PED CAT. | PWHT | 00 | 07/06/24 | ISSUE FOR REVIEW | MMA | CBO | DLO |
| | | -29 | 80 | | 40 | 01 | III | No | | | | | | |

ROSETTI MARINO

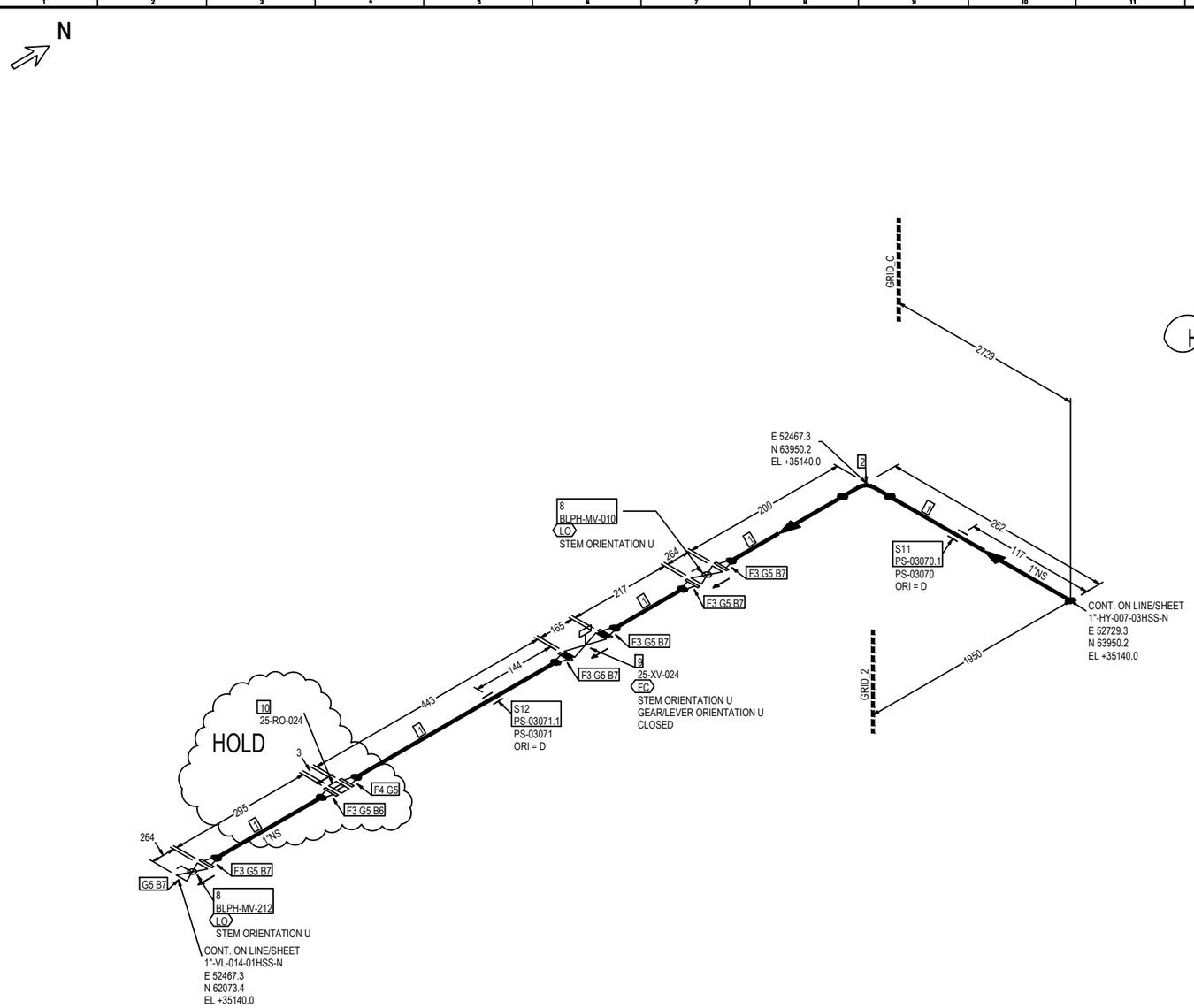
CROSSWIND

DWG TYTLE:

# 4"-HY-142-03HSS-N

| CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK | | | SCALE N.A. |
|---|---|---|---|
| DRAWN SPS | CHECKED CBO | APPROVED CGI | DATE 29/09/25 |
| SIZE: A3 | DRAWING NO. 123A90-DDL-PP-DI-71000_055 | SHEET 1/1 | REV. 02 |

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HOLD

FABRICATION MATERIALS

| PT NO | COMPONENT DESCRIPTION | N.S. | ITEM CODE | Q.TY | WEIGHT |
|---|---|---|---|---|---|
| 1 | Pipe ASME B36.19M PE 3,38 SML ASTM A312 Gr.TP316/316L | 1 | PIPESS00480100 | 907MM | 2.27 |
| 2 | 90 Deg Elbow Long Radius ASME B16.9 BW 3,38 WRS ASTM A403 Gr.WP316/316L | 1 | E90RSS00670100 | 1 | 0.14 |
| 3 | Flange WN ASME B16.5 300LB RF 3,38 FRG ASTM A182 Gr.F316/316L | 1 | FLW0SS03270100 | 6 | 10.98 |
| 4 | Flange WN For Jackscrews ASME B16.5 300LB RF 3,38 FRG ASTM A182 Gr.F316/316L | 1 | FLWDSS00770100 | 1 | 1.83 |
| | | | TOTAL FABRICATION WEIGHT | | 15.22 |

ERECTION MATERIALS

| PT NO | COMPONENT DESCRIPTION | N.S. | ITEM CODE | Q.TY | WEIGHT |
|---|---|---|---|---|---|
| 5 | Gasket Spiral Wound Thk. 3.2 mm ASME B16.20 300LB RF GSK AISI 316 + GRAPHITE c/w INNER RING | 1 | GSW0GK11210100 | 8 | 0.56 |
| 6 | 90 Stud Bolt + 2 Heavy Nuts ASME B1.1 ASTM A193 Gr.B7 - A194 Gr.2H Hot dip galvanized | 5/8 | SB20BO04190300 | 4 | 1.00 |
| 7 | 80 Stud Bolt + 2 Heavy Nuts ASME B1.1 ASTM A193 Gr.B7 - A194 Gr.2H Hot dip galvanized | 5/8 | SB20BO01870300 | 24 | 5.52 |
| 8 | Double Block & Bleed Valve API 6D FLG 300LB RF DA03C01RFH | 1 | VLBBNN07190100 | 2 | 27.00 |
| | INSTRUMENTS | | | | |
| 9 | ON/OFF Ball Actuator Valve - 300#RF Flanged 25-XV-024 | 1 | | 1 | 41.00 |
| 10 | Restriction Orifice 300#RF 25-RO-024 | 1 | | 1 | 1.00 |
| | SUPPORTS | | | | |
| 11 | /PS-03070.1 | 1 | | 1 | 0.19 |
| 12 | /PS-03071.1 | 1 | | 1 | 0.19 |
| | | | TOTAL ERECTION WEIGHT | | 76.46 |
| | | | TOTAL WEIGHT | | 91.68 |

| REFERENCE DOCUMENTS | |
|---|---|
| 123A90-DDL-PP-RE-70001 | STRESS ANALYSIS REPORT |
| 123A90-DDL-PR-PID-80013 | P&ID |
| 123A90-DDL-MAT-SP-60003 | INSULATION SPECIFICATION |
| 123A90-DDL-MAT-SP-60006 | COATING & PAINTING SPEC. |
| 123A90-DDL-PP-00-72000 | PIPING SUPPORT BOOK |
| 123A90-DDL-PP-SP-70029 | PIPING MATERIAL CLASS |

SYMBOLS LEGEND:
BUTT WELD · THREADED · HEAT TRACING · SOCKET · PIPE SUPPORT · INSULATED

| NDT EXAMINATION | | | |
|---|---|---|---|
| NDT TYPE | % | NDT TYPE | % |
| RT | 100 | VT | 100 |
| INSPECTION CATEGORY | 1 | MT/PT | 100Ratio |
| TESTING | | | |
| TEST FLUID | | TEST PRESS.(barg) | |
| Water | | 60 | |
| PROCESS LINE DATA | | | |
| DESIGN TEMP. (°C) | | DESIGN PRESS.(barg) | |
| -29 | 80 | | 40 |

| INSULATION & PAINTING | | |
|---|---|---|
| INS. TYPE | INS. THK. | INS. SURF. (m²) |
| N | | |
| PAINT SYS. | BASE RAL | PAINT. SURF. (m²) |
| 6A | RAL 9002 | 0.22 |
| HEAT TRACING | | |
| - | | |
| LINE DATA | | |
| STRESS SYS. | PED CAT. | PWHT |
| - | II | No |

| Revision Number | Date | Description | Prepared by | Checked by | Approved by |
|---|---|---|---|---|---|
| 02 | 29/09/25 | AS-BUILT (ASB) | SPS | CBO | CGI |
| 01 | 12/07/24 | ACCEPTED FOR CONSTRUCTION | MMA | CBO | DLO |
| 00 | 07/06/24 | ISSUE FOR REVIEW | MMA | CBO | DLO |

ROSETTI MARINO

CROSSWIND

DWG TYTLE:

# 1"-HY-143-03HSS-N

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK

SCALE N.A.

DRAWN SPS | CHECKED CBO | APPROVED CGI | DATE 29/09/25

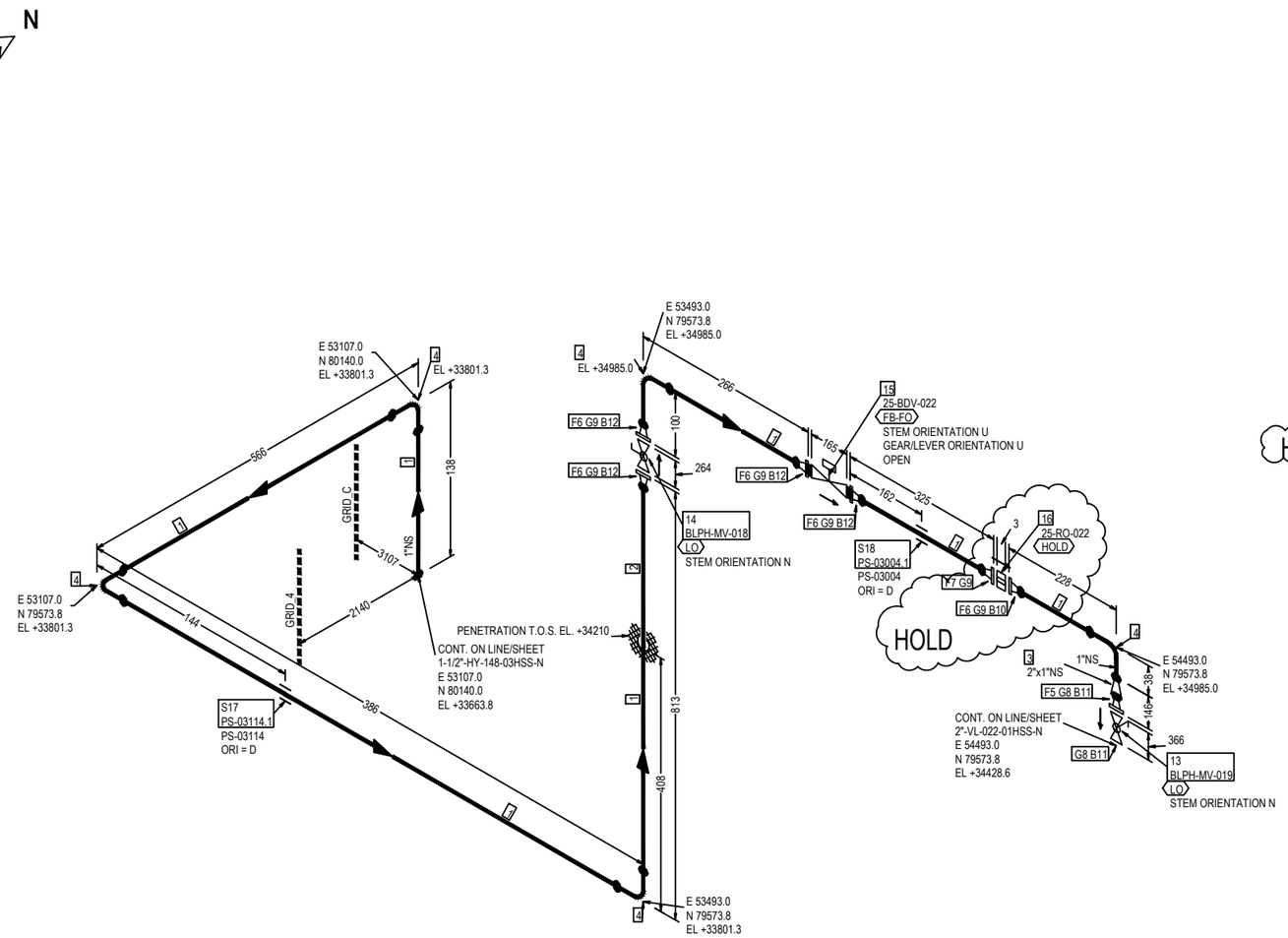
SIZE: A3

DRAWING NO. 123A90-DDL-PP-DI-71000_056

SHEET 1/1

REV. 02

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FABRICATION MATERIALS

| PT NO | COMPONENT DESCRIPTION | N.S. | ITEM CODE | Q.TY | WEIGHT |
|---|---|---|---|---|---|
| 1 | Pipe ASME B36.19M PE 3,38 SML ASTM A312 Gr.TP316/316L | 1 | PIPESS00480100 | 1764MM | 4.41 |
| 2 | Pipe ASME B36.19M PE 3,68 SML ASTM A312 Gr.TP316/316L | 1 | PIPESS00531H00 | 343MM | 0.86 |
| 3 | Reducer Concentric ASME B16.9 BW 2,77x3,38 WRS ASTM A403 Gr.WP316/316L | 2 x 1 | REC0SS02790201 | 1 | 0.31 |
| 4 | 90 Deg Elbow Long Radius ASME B16.9 BW 3,38 WRS ASTM A403 Gr.WP316/316L | 1 | E90RSS00670100 | 5 | 0.70 |
| 5 | Flange WN ASME B16.5 300LB RF 2,77 FRG ASTM A182 Gr.F316/316L | 2 | FLW0SS00180200 | 1 | 4.16 |
| 6 | Flange WN ASME B16.5 300LB RF 3,38 FRG ASTM A182 Gr.F316/316L | 1 | FLW0SS03270100 | 5 | 9.15 |
| 7 | Flange WN For Jackscrews ASME B16.5 300LB RF 3,38 FRG ASTM A182 Gr.F316/316L | 1 | FLWDSS00770100 | 1 | 1.83 |
| | | | TOTAL FABRICATION WEIGHT | | 21.42 |

ERECTION MATERIALS

| PT NO | COMPONENT DESCRIPTION | N.S. | ITEM CODE | Q.TY | WEIGHT |
|---|---|---|---|---|---|
| 8 | Gasket Spiral Wound Thk. 3.2 mm ASME B16.20 300LB RF GSK AISI 316 + GRAPHITE c/w INNER RING | 2 | GSW0GK11230200 | 2 | 0.26 |
| 9 | Gasket Spiral Wound Thk. 3.2 mm ASME B16.20 300LB RF GSK AISI 316 + GRAPHITE c/w INNER RING | 1 | GSW0GK11210100 | 6 | 0.42 |
| 10 | 90 Stud Bolt + 2 Heavy Nuts ASME B1.1 ASTM A193 Gr.B7 - A194 Gr.2H Hot dip galvanized | 5/8 | SB20BO04190300 | 4 | 1.00 |
| 11 | 90 Stud Bolt + 2 Heavy Nuts ASME B1.1 ASTM A193 Gr.B7 - A194 Gr.2H Hot dip galvanized | 5/8 | SB20BO04190300 | 16 | 4.00 |
| 12 | 80 Stud Bolt + 2 Heavy Nuts ASME B1.1 ASTM A193 Gr.B7 - A194 Gr.2H Hot dip galvanized | 5/8 | SB20BO01870300 | 16 | 3.68 |
| 13 | Double Block & Bleed Valve API 6D FLG 300LB RF DA03C01RFH | 2 | VLBBNN07210200 | 1 | 42.10 |
| 14 | Double Block & Bleed Valve API 6D FLG 300LB RF DA03C01RFH | 1 | VLBBNN07190100 | 1 | 13.50 |
| | INSTRUMENTS | | | | |
| 15 | ON/OFF Ball Actuator Valve - 300#RF Flanged 25-BDV-022 | 1 | | 1 | 41.00 |
| 16 | Restriction Orifice 300#RF 25-RO-022 | 1 | | 1 | 1.00 |
| | SUPPORTS | | | | |
| 17 | /PS-03114.1 | 1 | | 1 | 0.19 |
| 18 | /PS-03004.1 | 1 | | 1 | 0.19 |
| | | | TOTAL ERECTION WEIGHT | | 107.34 |
| | | | TOTAL WEIGHT | | 128.76 |

HOLD

| REFERENCE DOCUMENTS | |
|---|---|
| 123A90-DDL-PP-RE-70001 | STRESS ANALYSIS REPORT |
| 123A90-DDL-PR-PID-80014 | P&ID |
| 123A90-DDL-MAT-SP-60003 | INSULATION SPECIFICATION |
| 123A90-DDL-MAT-SP-60006 | COATING & PAINTING SPEC. |
| 123A90-DDL-PP-00-72000 | PIPING SUPPORT BOOK |
| 123A90-DDL-PP-SP-70029 | PIPING MATERIAL CLASS |

SYMBOLS LEGEND:
BUTT WELD · THREADED · HEAT TRACING · SOCKET · PIPE SUPPORT · INSULATED

| NDT EXAMINATION | | | |
|---|---|---|---|
| NDT TYPE | % | NDT TYPE | % |
| RT | 100 | VT | 100 |
| INSPECTION CATEGORY | 1 | MT/PT | 100Ratio |
| TESTING | | | |
| TEST FLUID | | TEST PRESS. [barg] | |
| Water | | 60 | |
| PROCESS LINE DATA | | | |
| DESIGN TEMP. [°C] | | DESIGN PRESS. [barg] | |
| -29 | 80 | | 40 |

| INSULATION & PAINTING | | |
|---|---|---|
| INS. TYPE | INS. THK. | INS. SURF. [m²] |
| N | | |
| PAINT SYS. | BASE RAL | PAINT. SURF. [m²] |
| 6A | RAL 9002 | SEE Sh1 |
| HEAT TRACING | | |
| - | | |
| LINE DATA | | |
| STRESS SYS. | PED CAT. | PWHT |
| - | II | No |

| Revision Number | Date | Description | Prepared by | Checked by | Approved by |
|---|---|---|---|---|---|
| 02 | 29/09/25 | AS-BUILT (ASB) | SPS | CBO | CGI |
| 01 | 12/07/24 | ACCEPTED FOR CONSTRUCTION | MMA | CBO | DLO |
| 00 | 07/06/24 | ISSUE FOR REVIEW | MMA | CBO | DLO |

ROSETTI MARINO

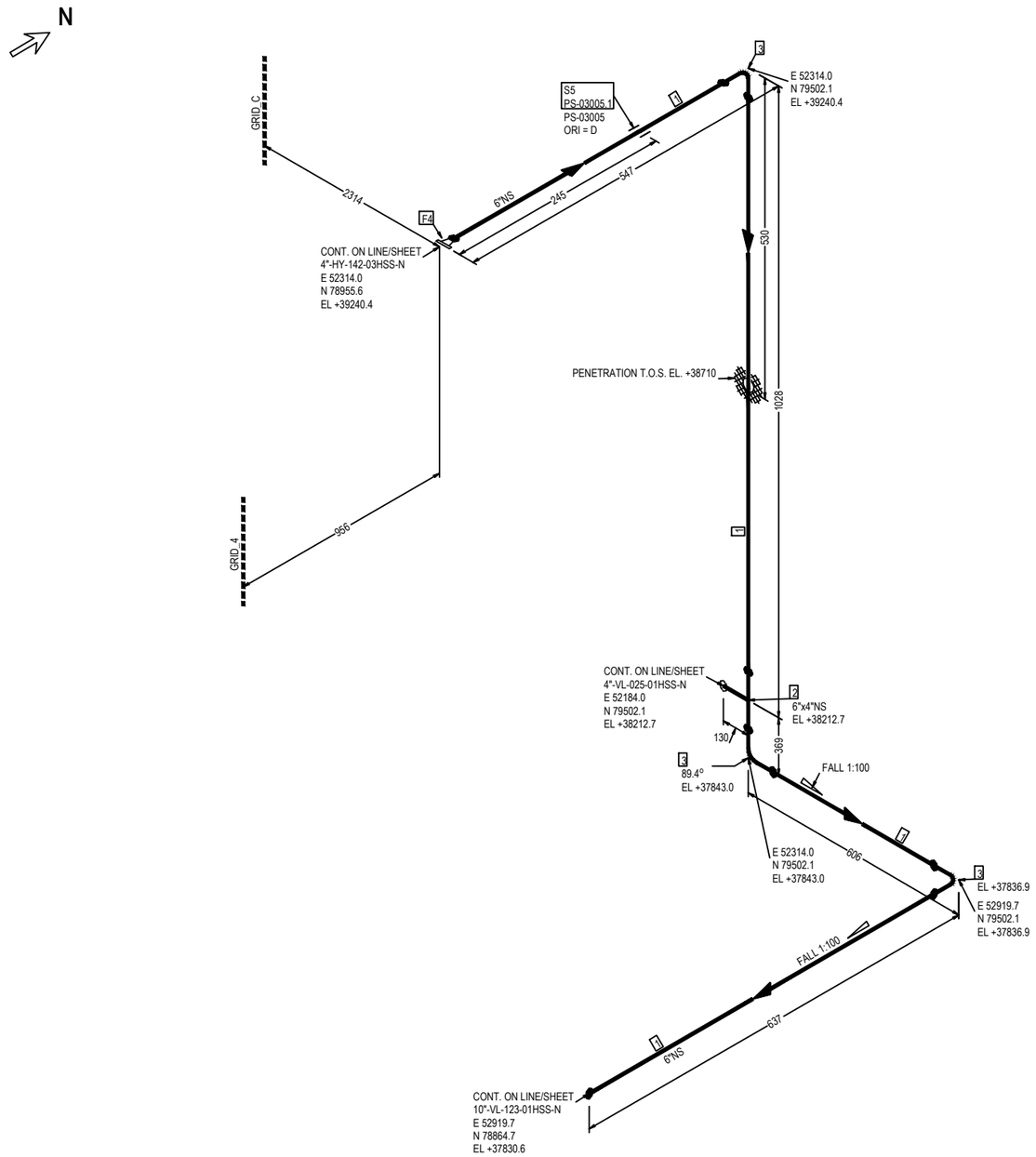
CROSSWIND

DWG TYTLE:

# 1"-HY-144-03HSS-N

| | | | |
|---|---|---|---|
| CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK | | | SCALE N.A. |
| DRAWN SPS | CHECKED CBO | APPROVED CGI | DATE 29/09/25 |
| SIZE: A3 | DRAWING NO. 123A90-DDL-PP-DI-71000_057 | | SHEET 1/1 · REV. 02 |

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FABRICATION MATERIALS

| PT NO | COMPONENT DESCRIPTION | N.S. | ITEM CODE | Q.TY | WEIGHT |
|---|---|---|---|---|---|
| 1 | Pipe ASME B36.19M PE 3,4 SML ASTM A312 Gr.TP316/316L | 6 | PIPESS00570600 | 1433MM | 20.06 |
| 2 | Tee Reducing ASME B16.9 BW 3,4x3,05 WRS ASTM A403 Gr.WP316/316L | 6 x 4 | TER0SS00170604 | 1 | 7.77 |
| 3 | 90 Deg Elbow Long Radius ASME B16.9 BW 3,4 WRS ASTM A403 Gr.WP316/316L | 6 | E90RSS01030600 | 3 | 14.82 |
| 4 | Flange WN ASME B16.5 300LB RF 3,4 FRG ASTM A182 Gr.F316/316L | 6 | FLW0SS00530600 | 1 | 19.29 |
| | | | TOTAL FABRICATION WEIGHT | | 61.94 |

ERECTION MATERIALS

| PT NO | COMPONENT DESCRIPTION | N.S. | ITEM CODE | Q.TY | WEIGHT |
|---|---|---|---|---|---|
| | SUPPORTS | | | | |
| 5 | /PS-03005.1 | 6 | | 1 | 1.42 |
| | | | TOTAL ERECTION WEIGHT | | 1.42 |
| | | | TOTAL WEIGHT | | 63.36 |

| REFERENCE DOCUMENTS | |
|---|---|
| 123A90-DDL-PP-RE-70001 | STRESS ANALYSIS REPORT |
| 123A90-DDL-PR-PID-80015 | P&ID |
| 123A90-DDL-MAT-SP-60003 | INSULATION SPECIFICATION |
| 123A90-DDL-MAT-SP-60006 | COATING & PAINTING SPEC. |
| 123A90-DDL-PP-00-72000 | PIPING SUPPORT BOOK |
| 123A90-DDL-PP-SP-70029 | PIPING MATERIAL CLASS |

SYMBOLS LEGEND:
BUTT WELD · THREADED · HEAT TRACING · SOCKET · PIPE SUPPORT · INSULATED

| NDT EXAMINATION | | | |
|---|---|---|---|
| NDT TYPE | % | NDT TYPE | % |
| RT | 100 | VT | 100 |
| INSPECTION CATEGORY | 1 | MT/PT | 100Ratio |
| TESTING | | | |
| TEST FLUID | | TEST PRESS.(barg) | |
| Water | | 5.25 | |
| PROCESS LINE DATA | | | |
| DESIGN TEMP. (°C) | | DESIGN PRESS.(barg) | |
| -29 | 100 | | 3.5 |

| INSULATION & PAINTING | | |
|---|---|---|
| INS. TYPE | INS. THK. | INS. SURF. (m²) |
| N | | |
| PAINT SYS. | BASE RAL | PAINT. SURF. (m²) |
| 6A | RAL 9002 | 1.53 |
| HEAT TRACING | | |
| - | | |
| LINE DATA | | |
| STRESS SYS. | PED CAT. | PWHT |
| 01 | I | No |

| Revision Number | Date | Description | Prepared by | Checked by | Approved by |
|---|---|---|---|---|---|
| 02 | 29/09/25 | AS-BUILT (ASB) | SPS | CBO | CGI |
| 01 | 12/07/24 | ACCEPTED FOR CONSTRUCTION | MMA | CBO | DLO |
| 00 | 07/06/24 | ISSUE FOR REVIEW | MMA | CBO | DLO |

ROSETTI MARINO

CROSSWIND

DWG TYTLE:

# 6"-VL-145-01HSS-N

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK

SCALE N.A.

DRAWN SPS | CHECKED CBO | APPROVED CGI | DATE 29/09/25

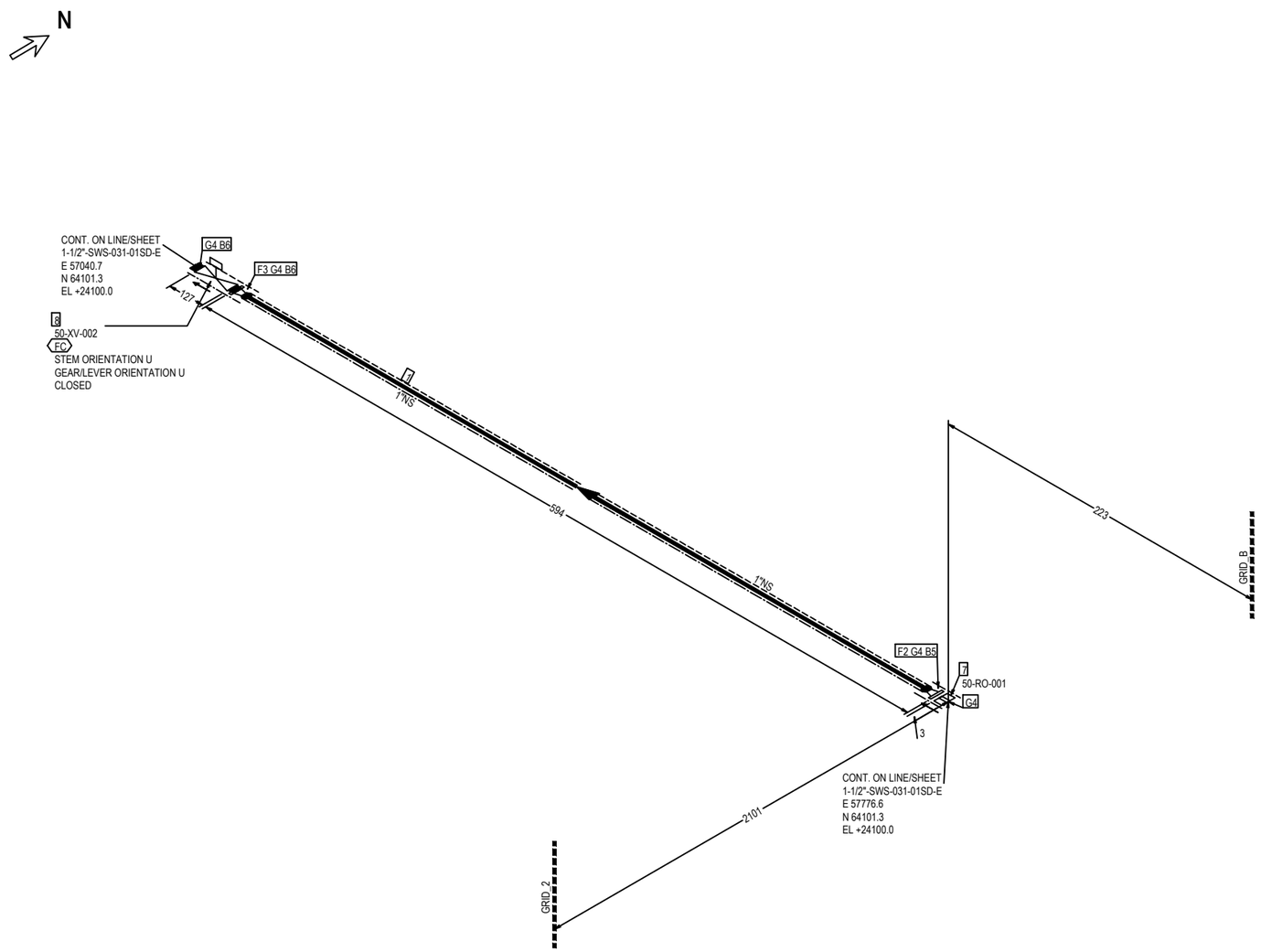
SIZE: A3

DRAWING NO. 123A90-DDL-PP-DI-71000_058

SHEET 1/1

REV. 02

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FABRICATION MATERIALS

| PT NO | COMPONENT DESCRIPTION | N.S. | ITEM CODE | Q.TY | WEIGHT |
|---|---|---|---|---|---|
| 1 | Pipe ASME B36.19M PE 3,38 SML ASTM A790 UNS S32760 | 1 | PIPESD02850100 | 482MM | 1.25 |
| 2 | Flange WN For Jackscrews ASME B16.5 150LB RF 3,38 FRG ASTM A182 Gr.F55 | 1 | FLWDSD00300100 | 1 | 1.43 |
| 3 | Flange WN ASME B16.5 150LB RF 3,38 FRG ASTM A182 Gr.F55 | 1 | FLW0SD01240100 | 1 | 1.43 |
| | | | TOTAL FABRICATION WEIGHT | | 4.11 |

ERECTION MATERIALS

| PT NO | COMPONENT DESCRIPTION | N.S. | ITEM CODE | Q.TY | WEIGHT |
|---|---|---|---|---|---|
| 4 | Gasket Flat Thk. 3 mm ASME B16.21 150LB RF GSK NEOPRENE | 1 | GFL3GK15970100 | 4 | 0.04 |
| 5 | 75 Stud Bolt + 2 Heavy Nuts ASME B1.1 ASTM A193 Gr.B7 - A194 Gr.2H Hot dip galvanized | 1/2 | SB20BO00940200 | 4 | 0.52 |
| 6 | 65 Stud Bolt + 2 Heavy Nuts ASME B1.1 ASTM A193 Gr.B7 - A194 Gr.2H Hot dip galvanized | 1/2 | SB20BO01080200 | 8 | 0.96 |
| | INSTRUMENTS | | | | |
| 7 | Restriction Orifice 150#RF 50-RO-001 | 1 | | 1 | 1.00 |
| 8 | ON/OFF Ball Actuator Valve - 150#RF Flanged 50-XV-002 | 1 | | 1 | 40.00 |
| | | | TOTAL ERECTION WEIGHT | | 42.52 |
| | | | TOTAL WEIGHT | | 46.63 |

| REFERENCE DOCUMENTS | |
|---|---|
| 123A90-DDL-PP-RE-70001 | STRESS ANALYSIS REPORT |
| 123A90-DDL-PR-PID-80021 | P&ID |
| 123A90-DDL-MAT-SP-60003 | INSULATION SPECIFICATION |
| 123A90-DDL-MAT-SP-60006 | COATING & PAINTING SPEC. |
| 123A90-DDL-PP-00-72000 | PIPING SUPPORT BOOK |
| 123A90-DDL-PP-SP-70029 | PIPING MATERIAL CLASS |

SYMBOLS LEGEND:
BUTT WELD, THREADED, HEAT TRACING, SOCKET, PIPE SUPPORT, INSULATED

| NDT EXAMINATION | | | |
|---|---|---|---|
| NDT TYPE | % | NDT TYPE | % |
| RT | 10 | VT | 100 |
| INSPECTION CATEGORY | 2 | MT/PT | 10 |
| TESTING | | | |
| TEST FLUID | | TEST PRESS.(barg) | |
| Water | | 11.40 | |

| PROCESS LINE DATA | | | |
|---|---|---|---|
| DESIGN TEMP. (°C) | | DESIGN PRESS.(barg) | |
| -29 | 100 | | 7.6 |

| INSULATION & PAINTING | | |
|---|---|---|
| INS. TYPE | INS. THK. | INS. SURF. (m²) |
| H | 20mm | 0.19 |
| PAINT SYS. | BASE RAL | PAINT. SURF. (m²) |
| N/A | N/A | |
| HEAT TRACING | | |
| YES | | |

| LINE DATA | | |
|---|---|---|
| STRESS SYS. | PED CAT. | PWHT |
| - | Art. 4, par. 3 | No |

| Revision Number | Date | Description | Prepared by | Checked by | Approved by |
|---|---|---|---|---|---|
| 02 | 29/09/25 | AS-BUILT (ASB) | SPS | CBO | CGI |
| 01 | 26/07/24 | ACCEPTED FOR CONSTRUCTION | MMA | CBO | DLO |
| 00 | 07/06/24 | ISSUE FOR REVIEW | MMA | CBO | DLO |

ROSETTI MARINO

CROSSWIND

DWG TYTLE:

# 1"-SWS-146-01SD-E

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK

SCALE N.A.

DRAWN SPS | CHECKED CBO | APPROVED CGI | DATE 29/09/25

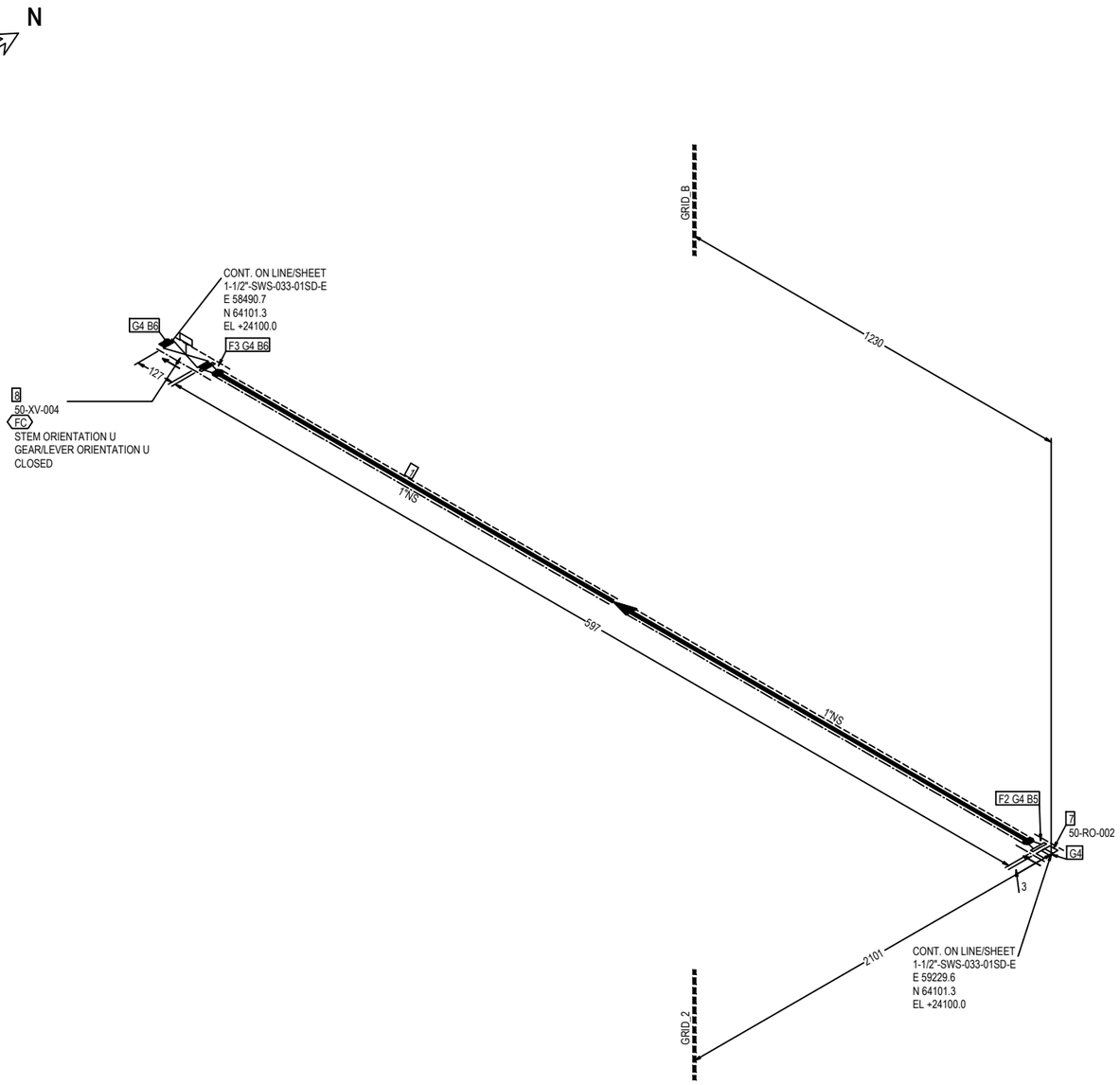
SIZE: A3

DRAWING NO. 123A90-DDL-PP-DI-71000_059

SHEET 1/1

REV. 02

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FABRICATION MATERIALS

| PT NO | COMPONENT DESCRIPTION | N.S. | ITEM CODE | Q.TY | WEIGHT |
|---|---|---|---|---|---|
| 1 | Pipe ASME B36.19M PE 3,38 SML ASTM A790 UNS S32760 | 1 | PIPESD02850100 | 485MM | 1.26 |
| 2 | Flange WN For Jackscrews ASME B16.5 150LB RF 3,38 FRG ASTM A182 Gr.F55 | 1 | FLWDSD00300100 | 1 | 1.43 |
| 3 | Flange WN ASME B16.5 150LB RF 3,38 FRG ASTM A182 Gr.F55 | 1 | FLW0SD01240100 | 1 | 1.43 |
| | | | TOTAL FABRICATION WEIGHT | | 4.12 |

ERECTION MATERIALS

| PT NO | COMPONENT DESCRIPTION | N.S. | ITEM CODE | Q.TY | WEIGHT |
|---|---|---|---|---|---|
| 4 | Gasket Flat Thk. 3 mm ASME B16.21 150LB RF GSK NEOPRENE | 1 | GFL3GK15970100 | 4 | 0.04 |
| 5 | 75 Stud Bolt + 2 Heavy Nuts ASME B1.1 ASTM A193 Gr.B7 - A194 Gr.2H Hot dip galvanized | 1/2 | SB20BO00940200 | 4 | 0.52 |
| 6 | 65 Stud Bolt + 2 Heavy Nuts ASME B1.1 ASTM A193 Gr.B7 - A194 Gr.2H Hot dip galvanized | 1/2 | SB20BO01080200 | 8 | 0.96 |
| | INSTRUMENTS | | | | |
| 7 | Restriction Orifice 150#RF 50-RO-002 | 1 | | 1 | 1.00 |
| 8 | ON/OFF Ball Actuator Valve - 150#RF Flanged 50-XV-004 | 1 | | 1 | 40.00 |
| | | | TOTAL ERECTION WEIGHT | | 42.52 |
| | | | TOTAL WEIGHT | | 46.64 |

| REFERENCE DOCUMENTS | | NDT EXAMINATION | | | | INSULATION & PAINTING | | |
|---|---|---|---|---|---|---|---|---|
| 123A90-DDL-PP-RE-70001 | STRESS ANALYSIS REPORT | NDT TYPE | % | NDT TYPE | % | INS. TYPE | INS. THK. | INS. SURF. (m²) |
| 123A90-DDL-PR-PID-80021 | P&ID | RT | 10 | VT | 100 | H | 20mm | 0.19 |
| 123A90-DDL-MAT-SP-60003 | INSULATION SPECIFICATION | INSPECTION CATEGORY | 2 | MT/PT | 10 | PAINT SYS. | BASE RAL | PAINT. SURF. (m²) |
| 123A90-DDL-MAT-SP-60006 | COATING & PAINTING SPEC. | TESTING | | | | N/A | N/A | |
| 123A90-DDL-PP-00-72000 | PIPING SUPPORT BOOK | TEST FLUID | | TEST PRESS. (barg) | | HEAT TRACING | | |
| 123A90-DDL-PP-SP-70029 | PIPING MATERIAL CLASS | Water | | 11.40 | | YES | | |
| SYMBOLS LEGEND: BUTT WELD, THREADED, HEAT TRACING, SOCKET, PIPE SUPPORT, INSULATED | | PROCESS LINE DATA | | | | LINE DATA | | |
| | | DESIGN TEMP. (°C) | | DESIGN PRESS. (barg) | | STRESS SYS. | PED CAT. | PWHT |
| | | -29 | 100 | | 7.6 | - | Art. 4, par. 3 | No |

| Revision Number | Date | Description | Prepared by | Checked by | Approved by |
|---|---|---|---|---|---|
| 02 | 29/09/25 | AS-BUILT (ASB) | SPS | CBO | CGI |
| 01 | 26/07/24 | ACCEPTED FOR CONSTRUCTION | MMA | CBO | DLO |
| 00 | 07/06/24 | ISSUE FOR REVIEW | MMA | CBO | DLO |

ROSETTI MARINO

# CROSSWIND

DWG TYTLE:

## 1"-SWS-147-01SD-E

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK

SCALE N.A.

DRAWN SPS | CHECKED CBO | APPROVED CGI | DATE 29/09/25

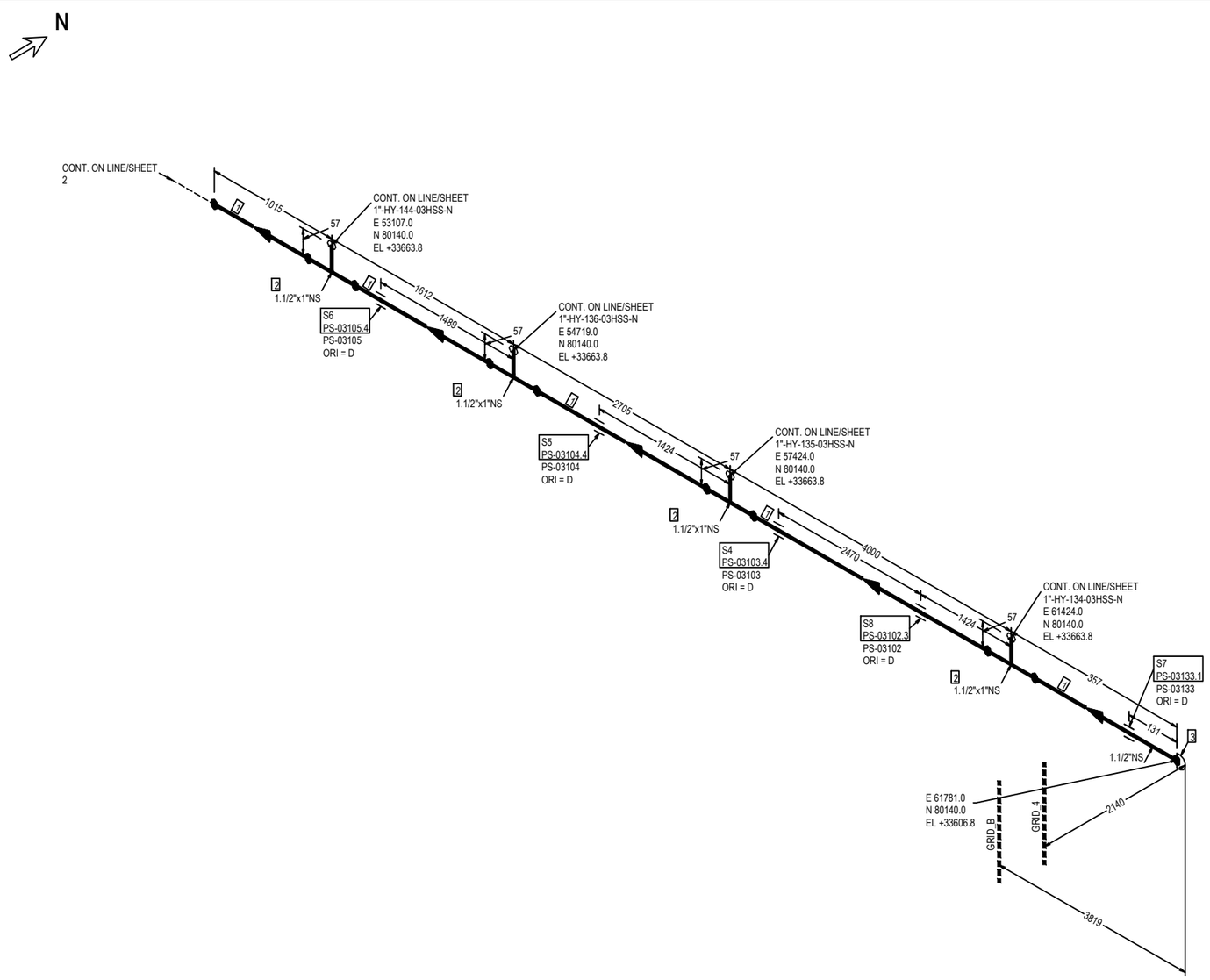
SIZE: A3

DRAWING NO. 123A90-DDL-PP-DI-71000_060

SHEET 1/1

REV. 02

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FABRICATION MATERIALS

| PT NO | COMPONENT DESCRIPTION | N.S. | ITEM CODE | Q.TY | WEIGHT |
|---|---|---|---|---|---|
| 1 | Pipe ASME B36.19M PE 3,68 SML ASTM A312 Gr.TP316/316L | 1.1/2 | PIPESS00531H00 | 9233MM | 37.86 |
| 2 | Tee Reducing ASME B16.9 BW 3,68x3,38 WRS ASTM A403 Gr.WP316/316L | 1.1/2 x 1 | TER0SS01741H01 | 4 | 3.00 |
| 3 | Cap ASME B16.9 BW 3,68 WRS ASTM A403 Gr.WP316/316L | 1.1/2 | CAP0SS01041H00 | 1 | 0.19 |
| | SUPPORTS | | | | |
| 4 | /PS-03103.4 | 1.1/2 | | 1 | 0.29 |
| 5 | /PS-03104.4 | 1.1/2 | | 1 | 0.29 |
| 6 | /PS-03105.4 | 1.1/2 | | 1 | 0.29 |
| | | | TOTAL FABRICATION WEIGHT | | 41.92 |

ERECTION MATERIALS

| PT NO | COMPONENT DESCRIPTION | N.S. | ITEM CODE | Q.TY | WEIGHT |
|---|---|---|---|---|---|
| | SUPPORTS | | | | |
| 7 | /PS-03133.1 | 1.1/2 | | 1 | 0.29 |
| 8 | /PS-03102.3 | 1.1/2 | | 1 | 0.29 |
| | | | TOTAL ERECTION WEIGHT | | 0.58 |
| | | | TOTAL WEIGHT | | 42.50 |

| REFERENCE DOCUMENTS | |
|---|---|
| 123A90-DDL-PP-RE-70001 | STRESS ANALYSIS REPORT |
| 123A90-DDL-PR-PID-80014 | P&ID |
| 123A90-DDL-MAT-SP-60003 | INSULATION SPECIFICATION |
| 123A90-DDL-MAT-SP-60006 | COATING & PAINTING SPEC. |
| 123A90-DDL-PP-00-72000 | PIPING SUPPORT BOOK |
| 123A90-DDL-PP-SP-70029 | PIPING MATERIAL CLASS |

SYMBOLS LEGEND:
BUTT WELD · THREADED · HEAT TRACING
SOCKET · PIPE SUPPORT · INSULATED

| NDT EXAMINATION | | | | | | | |
|---|---|---|---|---|---|---|---|
| NDT TYPE | % | NDT TYPE | % | | | | |
| RT | 100 | VT | 100 | | | | |
| INSPECTION CATEGORY | 1 | MT/PT | 100Ratio | | | | |
| TESTING | | | | | | | |
| TEST FLUID | | TEST PRESS.[barg] | | | | | |
| Water | | 60 | | | | | |
| PROCESS LINE DATA | | | | | | | |
| DESIGN TEMP. [°C] | | DESIGN PRESS.[barg] | | | | | |
| -29 | 80 | | 40 | | | | |

| INSULATION & PAINTING | | | | | | | |
|---|---|---|---|---|---|---|---|
| INS. TYPE | INS. THK. | INS. SURF. [m²] | | | | | |
| N | | | | | | | |
| PAINT SYS. | BASE RAL | PAINT. SURF. [m²] | | | | | |
| 6A | RAL 9002 | 4.88 | | | | | |
| HEAT TRACING | | | | | | | |
| - | | | | | | | |
| LINE DATA | | | | | | | |
| STRESS SYS. | PED CAT. | PWHT | | | | | |
| - | II | No | | | | | |

| Revision Number | Date | Description | Prepared by | Checked by | Approved by |
|---|---|---|---|---|---|
| 02 | 29/09/25 | AS-BUILT (ASB) | SPS | CBO | CGI |
| 01 | 12/07/24 | ACCEPTED FOR CONSTRUCTION | MMA | CBO | DLO |
| 00 | 07/06/24 | ISSUE FOR REVIEW | MMA | CBO | DLO |

ROSETTI MARINO

# CROSSWIND

DWG TYTLE:

## 1-1/2"-HY-148-03HSS-N

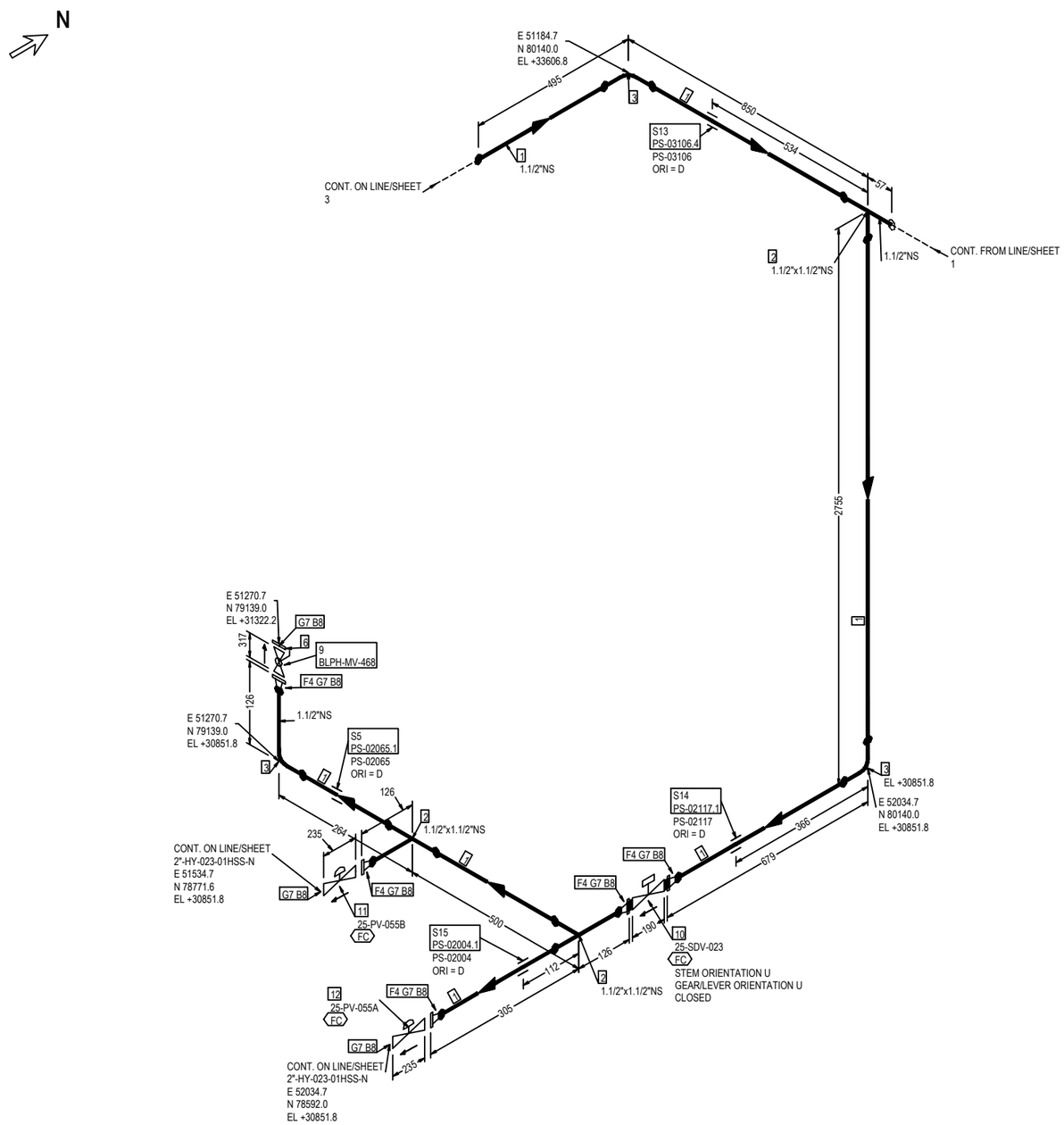
CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK

SCALE N.A.

| DRAWN | CHECKED | APPROVED | DATE |
|---|---|---|---|
| SPS | CBO | CGI | 29/09/25 |

| SIZE: | DRAWING NO. | SHEET | REV. |
|---|---|---|---|
| A3 | 123A90-DDL-PP-DI-71000_061 | 1 / 3 | 02 |

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FABRICATION MATERIALS

| PT NO | COMPONENT DESCRIPTION | N.S. | ITEM CODE | Q.TY | WEIGHT |
|---|---|---|---|---|---|
| 1 | Pipe ASME B36.19M PE 3,68 SML ASTM A312 Gr.TP316/316L | 1.1/2 | PIPESS00531H00 | 5083MM | 20.84 |
| 2 | Tee ASME B16.9 BW 3,68 WRS ASTM A403 Gr.WP316/316L | 1.1/2 x 1.1/2 | TEE0SS00561H00 | 3 | 2.46 |
| 3 | 90 Deg Elbow Long Radius ASME B16.9 BW 3,68 WRS ASTM A403 Gr.WP316/316L | 1.1/2 | E90RSS00681H00 | 3 | 1.11 |
| 4 | Flange WN ASME B16.5 300LB RF 3,68 FRG ASTM A182 Gr.F316/316L | 1.1/2 | FLW0SS03481H00 | 5 | 16.25 |
| | SUPPORTS | | | | |
| 5 | /PS-02065.1 | 1.1/2 | | 1 | 0.29 |
| | | | TOTAL FABRICATION WEIGHT | | 40.95 |

ERECTION MATERIALS

| PT NO | COMPONENT DESCRIPTION | N.S. | ITEM CODE | Q.TY | WEIGHT |
|---|---|---|---|---|---|
| 6 | Flange Blind ASME B16.5 300LB RF FRG ASTM A182 Gr.F316/316L | 1.1/2 | FLB0SS01961H00 | 1 | 3.25 |
| 7 | Gasket Spiral Wound Thk. 3.2 mm ASME B16.20 300LB RF GSK AISI 316 + GRAPHITE c/w INNER RING | 1.1/2 | GSW0GK11221H00 | 8 | 0.88 |
| 8 | 95 Stud Bolt + 2 Heavy Nuts ASME B1.1 ASTM A193 Gr.B7 - A194 Gr.2H Hot dip galvanized | 3/4 | SB20BO23540400 | 32 | 12.48 |
| 9 | Double Block & Bleed Valve API 6D FLG 300LB RF DA03C01RFH | 1.1/2 | VLBBNN07201H00 | 1 | 40.00 |
| | INSTRUMENTS | | | | |
| 10 | ON/OFF Ball Actuator Valve - 300#RF Flanged 25-SDV-023 | 1.1/2 | | 1 | 54.00 |
| 11 | Control Valve - FLG 300 #RF 25-PV-055B | 1.1/2 | | 1 | 48.00 |
| 12 | Control Valve - FLG 300 #RF 25-PV-055A | 1.1/2 | | 1 | 48.00 |
| | SUPPORTS | | | | |
| 13 | /PS-03106.4 | 1.1/2 | | 1 | 0.29 |
| 14 | /PS-02117.1 | 1.1/2 | | 1 | 0.29 |
| 15 | /PS-02004.1 | 1.1/2 | | 1 | 0.29 |
| | | | TOTAL ERECTION WEIGHT | | 207.48 |
| | | | TOTAL WEIGHT | | 248.43 |

| REFERENCE DOCUMENTS | |
|---|---|
| 123A90-DDL-PP-RE-70001 | STRESS ANALYSIS REPORT |
| 123A90-DDL-PR-PID-80014 | P&ID |
| 123A90-DDL-MAT-SP-60003 | INSULATION SPECIFICATION |
| 123A90-DDL-MAT-SP-60006 | COATING & PAINTING SPEC. |
| 123A90-DDL-PP-00-72000 | PIPING SUPPORT BOOK |
| 123A90-DDL-PP-SP-70029 | PIPING MATERIAL CLASS |

SYMBOLS LEGEND:
BUTT WELD · THREADED · HEAT TRACING · SOCKET · PIPE SUPPORT · INSULATED

| NDT EXAMINATION | | | |
|---|---|---|---|
| NDT TYPE | % | NDT TYPE | % |
| RT | 100 | VT | 100 |
| INSPECTION CATEGORY | 1 | MT/PT | 100Ratio |
| TESTING | | | |
| TEST FLUID | | TEST PRESS.(barg) | |
| Water | | 60 | |
| PROCESS LINE DATA | | | |
| DESIGN TEMP. (°C) | | DESIGN PRESS.(barg) | |
| -29 | 80 | | 40 |

| INSULATION & PAINTING | | |
|---|---|---|
| INS. TYPE | INS. THK. | INS. SURF. (m²) |
| N | | |
| PAINT SYS. | BASE RAL | PAINT. SURF. (m²) |
| 6A | RAL 9002 | SEE Sh1 |
| HEAT TRACING | | |
| - | | |
| LINE DATA | | |
| STRESS SYS. | PED CAT. | PWHT |
| - | II | No |

| Revision Number | Date | Description | Prepared by | Checked by | Approved by |
|---|---|---|---|---|---|
| 02 | 29/09/25 | AS-BUILT (ASB) | SPS | CBO | CGI |
| 01 | 12/07/24 | ACCEPTED FOR CONSTRUCTION | MMA | CBO | DLO |
| 00 | 07/06/24 | ISSUE FOR REVIEW | MMA | CBO | DLO |

ROSETTI MARINO

# CROSSWIND

DWG TYTLE:

## 1-1/2"-HY-148-03HSS-N

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK

SCALE N.A.

DRAWN SPS | CHECKED CBO | APPROVED CGI | DATE 29/09/25

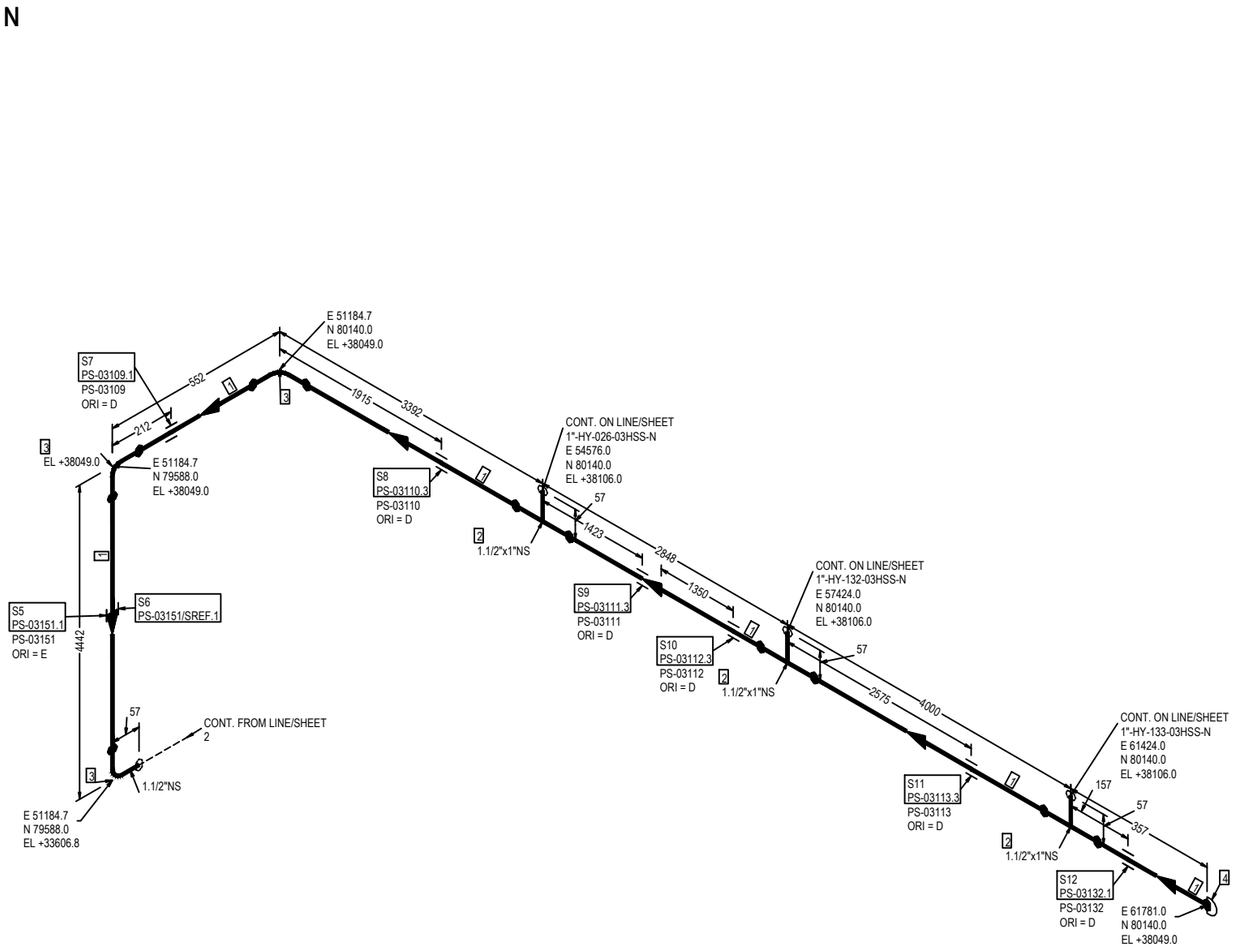
SIZE: A3

DRAWING NO. 123A90-DDL-PP-DI-71000_061

SHEET 2/3

REV. 02

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FABRICATION MATERIALS

| PT NO | COMPONENT DESCRIPTION | N.S. | ITEM CODE | Q.TY | WEIGHT |
|---|---|---|---|---|---|
| 1 | Pipe ASME B36.19M PE 3,68 SML ASTM A312 Gr.TP316/316L | 1.1/2 | PIPESS00531H00 | 14964MM | 61.35 |
| 2 | Tee Reducing ASME B16.9 BW 3,68x3,38 WRS ASTM A403 Gr.WP316/316L | 1.1/2 x 1 | TER0SS01741H01 | 3 | 2.25 |
| 3 | 90 Deg Elbow Long Radius ASME B16.9 BW 3,68 WRS ASTM A403 Gr.WP316/316L | 1.1/2 | E90RSS00681H00 | 3 | 1.11 |
| 4 | Cap ASME B16.9 BW 3,68 WRS ASTM A403 Gr.WP316/316L | 1.1/2 | CAP0SS01041H00 | 1 | 0.19 |
| | | | TOTAL FABRICATION WEIGHT | | 64.90 |

ERECTION MATERIALS

| PT NO | COMPONENT DESCRIPTION | N.S. | ITEM CODE | Q.TY | WEIGHT |
|---|---|---|---|---|---|
| | SUPPORTS | | | | |
| 5 | /PS-03151.1 | 1.1/2 | | 1 | 0.29 |
| 6 | | 1.1/2 | | 1 | 0.00 |
| 7 | /PS-03109.1 | 1.1/2 | | 1 | 0.29 |
| 8 | /PS-03110.3 | 1.1/2 | | 1 | 0.29 |
| 9 | /PS-03111.3 | 1.1/2 | | 1 | 0.29 |
| 10 | /PS-03112.3 | 1.1/2 | | 1 | 0.29 |
| 11 | /PS-03113.3 | 1.1/2 | | 1 | 0.29 |
| 12 | /PS-03132.1 | 1.1/2 | | 1 | 0.29 |
| | | | TOTAL ERECTION WEIGHT | | 2.03 |
| | | | TOTAL WEIGHT | | 66.93 |

| REFERENCE DOCUMENTS | |
|---|---|
| 123A90-DDL-PP-RE-70001 | STRESS ANALYSIS REPORT |
| 123A90-DDL-PR-PID-80014 | P&ID |
| 123A90-DDL-MAT-SP-60003 | INSULATION SPECIFICATION |
| 123A90-DDL-MAT-SP-60006 | COATING & PAINTING SPEC. |
| 123A90-DDL-PP-00-72000 | PIPING SUPPORT BOOK |
| 123A90-DDL-PP-SP-70029 | PIPING MATERIAL CLASS |

SYMBOLS LEGEND:
BUTT WELD · THREADED · HEAT TRACING · SOCKET · PIPE SUPPORT · INSULATED

| NDT EXAMINATION | | | |
|---|---|---|---|
| NDT TYPE | % | NDT TYPE | % |
| RT | 100 | VT | 100 |
| INSPECTION CATEGORY | 1 | MT/PT | 100Ratio |
| TESTING | | | |
| TEST FLUID | | TEST PRESS.[barg] | |
| Water | | 60 | |
| PROCESS LINE DATA | | | |
| DESIGN TEMP. [°C] | | DESIGN PRESS.[barg] | |
| -29 | 80 | | 40 |

| INSULATION & PAINTING | | |
|---|---|---|
| INS. TYPE | INS. THK. | INS. SURF. [m²] |
| N | | |
| PAINT SYS. | BASE RAL | PAINT. SURF. [m²] |
| 6A | RAL 9002 | SEE Sh1 |
| HEAT TRACING | | |
| - | | |
| LINE DATA | | |
| STRESS SYS. | PED CAT. | PWHT |
| - | II | No |

| Revision Number | Date | Description | Prepared by | Checked by | Approved by |
|---|---|---|---|---|---|
| 02 | 29/09/25 | AS-BUILT (ASB) | SPS | CBO | CGI |
| 01 | 12/07/24 | ACCEPTED FOR CONSTRUCTION | MMA | CBO | DLO |
| 00 | 07/06/24 | ISSUE FOR REVIEW | MMA | CBO | DLO |

ROSETTI MARINO

# CROSSWIND

DWG TYTLE:

## 1-1/2"-HY-148-03HSS-N

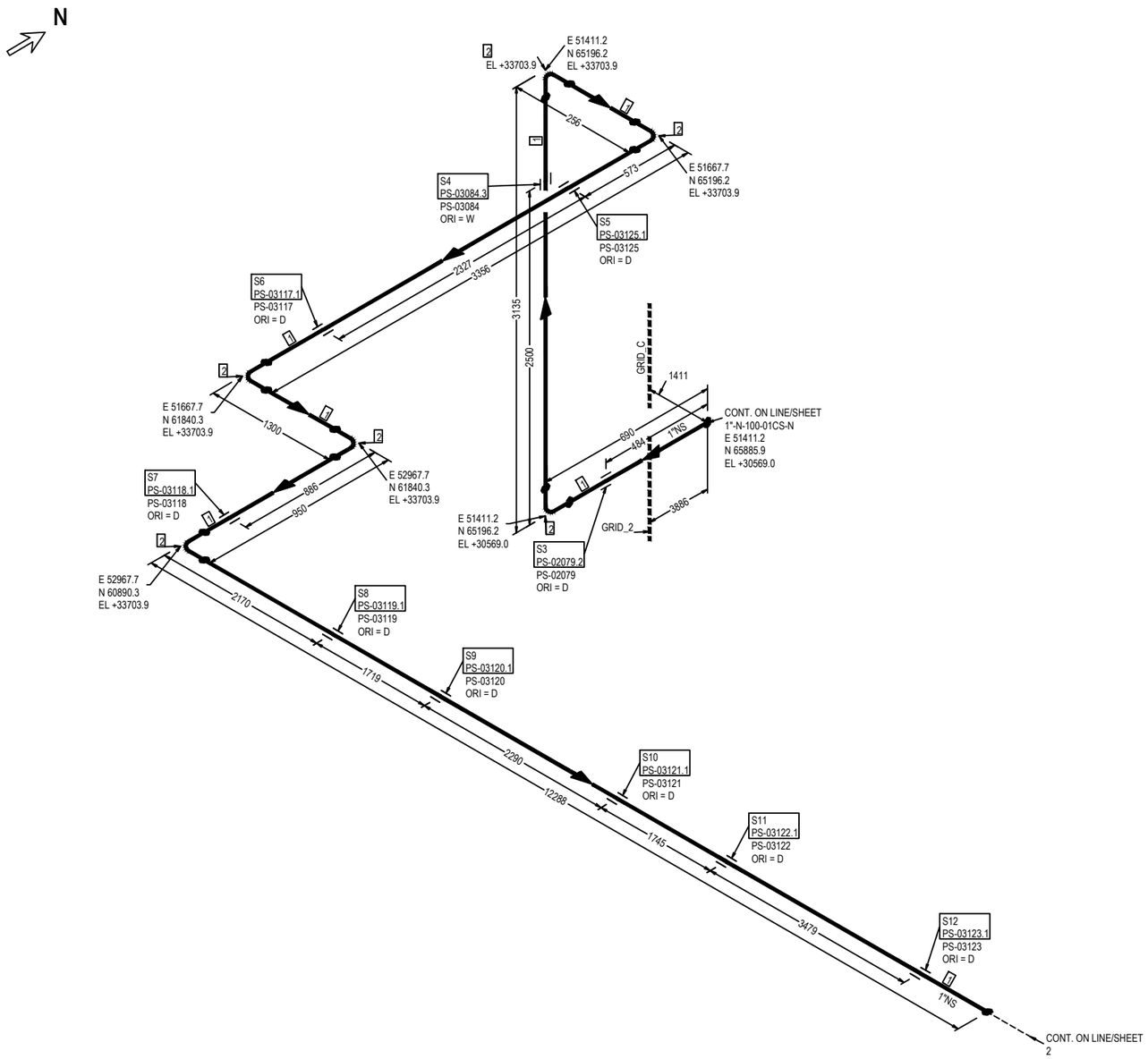
CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK

SCALE N.A.

DRAWN SPS | CHECKED CBO | APPROVED CGI | DATE 29/09/25

SIZE: A3 | DRAWING NO. 123A90-DDL-PP-DI-71000_061 | SHEET 3/3 | REV. 02

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FABRICATION MATERIALS

| PT NO | COMPONENT DESCRIPTION | N.S. | ITEM CODE | Q.TY | WEIGHT |
|---|---|---|---|---|---|
| 1 | Pipe ASME B36.10M PE 4,55 SML ASTM/ASME A/SA333 Gr.6 | 1 | PIPECS08300100 | 21519MM | 68.86 |
| 2 | 90 Deg Elbow Long Radius ASME B16.9 BW 4,55 WRS ASTM/ASME A/SA420 Gr.WPL6 | 1 | E90RCS01780100 | 6 | 1.08 |
| | | | TOTAL FABRICATION WEIGHT | | 69.94 |

ERECTION MATERIALS

| PT NO | COMPONENT DESCRIPTION | N.S. | ITEM CODE | Q.TY | WEIGHT |
|---|---|---|---|---|---|
| | SUPPORTS | | | | |
| 3 | /PS-02079.2 | 1 | | 1 | 0.19 |
| 4 | /PS-03084.3 | 1 | | 1 | 0.19 |
| 5 | /PS-03125.1 | 1 | | 1 | 0.19 |
| 6 | /PS-03117.1 | 1 | | 1 | 0.19 |
| 7 | /PS-03118.1 | 1 | | 1 | 0.19 |
| 8 | /PS-03119.1 | 1 | | 1 | 0.19 |
| 9 | /PS-03120.1 | 1 | | 1 | 0.19 |
| 10 | /PS-03121.1 | 1 | | 1 | 0.19 |
| 11 | /PS-03122.1 | 1 | | 1 | 0.19 |
| 12 | /PS-03123.1 | 1 | | 1 | 0.19 |
| | | | TOTAL ERECTION WEIGHT | | 1.90 |
| | | | TOTAL WEIGHT | | 71.84 |

| REFERENCE DOCUMENTS | |
|---|---|
| 123A90-DDL-PP-RE-70001 | STRESS ANALYSIS REPORT |
| 123A90-DDL-PR-PID-80027 | P&ID |
| 123A90-DDL-MAT-SP-60003 | INSULATION SPECIFICATION |
| 123A90-DDL-MAT-SP-60006 | COATING & PAINTING SPEC. |
| 123A90-DDL-PP-00-72000 | PIPING SUPPORT BOOK |
| 123A90-DDL-PP-SP-70029 | PIPING MATERIAL CLASS |

SYMBOLS LEGEND:
BUTT WELD · THREADED · HEAT TRACING
SOCKET · PIPE SUPPORT · INSULATED

| NDT EXAMINATION | | | | PROCESS LINE DATA | | | |
|---|---|---|---|---|---|---|---|
| NDT TYPE | % | NDT TYPE | % | DESIGN TEMP. [°C] | | DESIGN PRESS.[barg] | |
| RT | 10 | VT | 100 | -46 | 100 | | 12 |
| INSPECTION CATEGORY | 2 | MT/PT | 10 | | | | |
| TESTING | | | | | | | |
| TEST FLUID | | TEST PRESS.[barg] | | | | | |
| Water | | 18 | | | | | |

| INSULATION & PAINTING | | | HEAT TRACING | | |
|---|---|---|---|---|---|
| INS. TYPE | INS. THK. | INS. SURF. [m²] | STRESS SYS. | PED CAT. | PWHT |
| N | | | - | Art. 4, par. 3 | No |
| PAINT SYS. | BASE RAL | PAINT. SURF. [m²] | | | |
| 1 | RAL 9002 | 3.24 | | | |

| Revision Number | Date | Description | Prepared by | Checked by | Approved by |
|---|---|---|---|---|---|
| 02 | 29/09/25 | AS-BUILT (ASB) | SPS | CBO | CGI |
| 01 | 26/07/24 | ACCEPTED FOR CONSTRUCTION | MMA | CBO | DLO |
| 00 | 07/06/24 | ISSUE FOR REVIEW | MMA | CBO | DLO |

ROSETTI MARINO

# CROSSWIND

DWG TYTLE:

## 1"-N-151-01CS-N

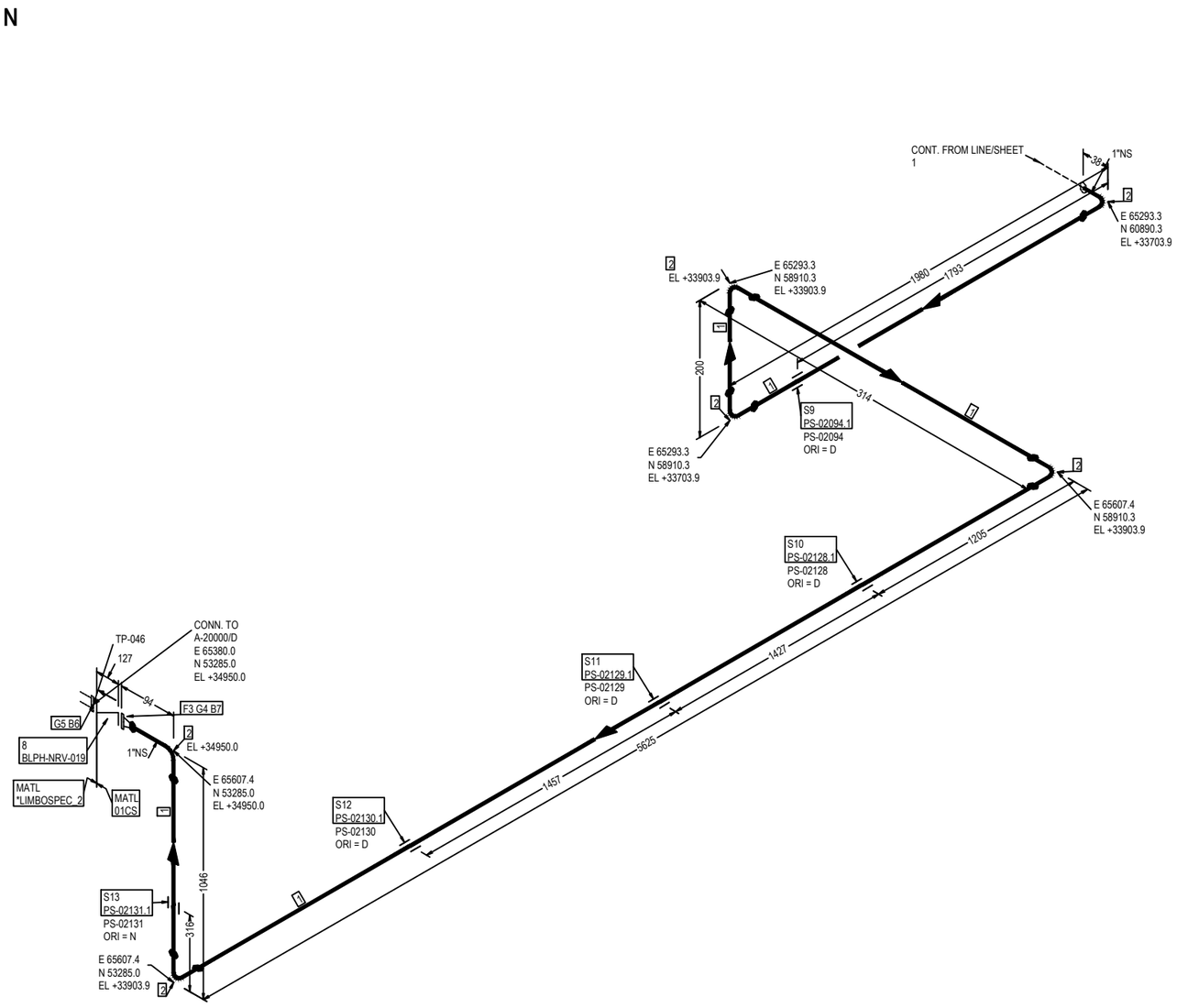
CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK

SCALE N.A.

DRAWN SPS | CHECKED CBO | APPROVED CGI | DATE 29/09/25

SIZE: A3 | DRAWING NO. 123A90-DDL-PP-DI-71000_062 | SHEET 1/2 | REV. 02

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FABRICATION MATERIALS

| PT NO | COMPONENT DESCRIPTION | N.S. | ITEM CODE | Q.TY | WEIGHT |
|---|---|---|---|---|---|
| 1 | Pipe ASME B36.10M PE 4,55 SML ASTM/ASME A/SA333 Gr.6 | 1 | PIPECS08300100 | 8785MM | 28.11 |
| 2 | 90 Deg Elbow Long Radius ASME B16.9 BW 4,55 WRS ASTM/ASME A/SA420 Gr.WPL6 | 1 | E90RCS01780100 | 6 | 1.08 |
| 3 | Flange WN ASME B16.5 150LB RF 4,55 FRG ASTM/ASME A/SA350 Gr.LF2 | 1 | FLW0CS16540100 | 1 | 1.40 |
| | | | TOTAL FABRICATION WEIGHT | | 30.59 |

ERECTION MATERIALS

| PT NO | COMPONENT DESCRIPTION | N.S. | ITEM CODE | Q.TY | WEIGHT |
|---|---|---|---|---|---|
| 4 | Gasket Spiral Wound Thk. 3.2 mm ASME B16.20 150LB RF GSK AISI 316 + GRAPHITE c/w INNER RING | 1 | GSW0GK11100100 | 1 | 0.06 |
| 5 | Insulation Kit Ends as per ASME B16.5 150LB RF | 1 | SPIKNN01220100 | 1 | 0.06 |
| 6 | 85 Stud Bolt + 2 Heavy Nuts ASME B1.1 ASTM A193 Gr.B7 - A194 Gr.2H Hot dip galvanized | 1/2 | SB20BO00650200 | 4 | 0.56 |
| 7 | 65 Stud Bolt + 2 Heavy Nuts ASME B1.1 ASTM A193 Gr.B7 - A194 Gr.2H Hot dip galvanized | 1/2 | SB20BO01080200 | 4 | 0.48 |
| 8 | Check Valve Piston EN ISO 15761 FLG 150LB RF CH01B02RF | 1 | VDRNNN02580100 | 1 | 0.00 |
| | SUPPORTS | | | | |
| 9 | /PS-02094.1 | 1 | | 1 | 0.19 |
| 10 | /PS-02128.1 | 1 | | 1 | 0.19 |
| 11 | /PS-02129.1 | 1 | | 1 | 0.19 |
| 12 | /PS-02130.1 | 1 | | 1 | 0.19 |
| 13 | /PS-02131.1 | 1 | | 1 | 0.19 |
| | | | TOTAL ERECTION WEIGHT | | 2.11 |
| | | | TOTAL WEIGHT | | 32.70 |

| REFERENCE DOCUMENTS | |
|---|---|
| 123A90-DDL-PP-RE-70001 | STRESS ANALYSIS REPORT |
| 123A90-DDL-PR-PID-80027 | P&ID |
| 123A90-DDL-MAT-SP-60003 | INSULATION SPECIFICATION |
| 123A90-DDL-MAT-SP-60006 | COATING & PAINTING SPEC. |
| 123A90-DDL-PP-00-72000 | PIPING SUPPORT BOOK |
| 123A90-DDL-PP-SP-70029 | PIPING MATERIAL CLASS |

SYMBOLS LEGEND:
BUTT WELD · THREADED · HEAT TRACING
SOCKET · PIPE SUPPORT · INSULATED

| NDT EXAMINATION | | | |
|---|---|---|---|
| NDT TYPE | % | NDT TYPE | % |
| RT | 10 | VT | 100 |
| INSPECTION CATEGORY | 2 | MT/PT | 10 |
| TESTING | | | |
| TEST FLUID | | TEST PRESS. (barg) | |
| Water | | 18 | |
| PROCESS LINE DATA | | | |
| DESIGN TEMP. (°C) | | DESIGN PRESS. (barg) | |
| -46 | 100 | | 12 |

| INSULATION & PAINTING | | |
|---|---|---|
| INS. TYPE | INS. THK. | INS. SURF. (m²) |
| N | | |
| PAINT SYS. | BASE RAL | PAINT. SURF. (m²) |
| 1 | RAL 9002 | see sh.1 |
| HEAT TRACING | | |
| - | | |
| LINE DATA | | |
| STRESS SYS. | PED CAT. | PWHT |
| - | Art. 4, par. 3 | No |

| Revision Number | Date | Description | Prepared by | Checked by | Approved by |
|---|---|---|---|---|---|
| 02 | 29/09/25 | AS-BUILT (ASB) | SPS | CBO | CGI |
| 01 | 26/07/24 | ACCEPTED FOR CONSTRUCTION | MMA | CBO | DLO |
| 00 | 07/06/24 | ISSUE FOR REVIEW | MMA | CBO | DLO |

ROSETTI MARINO

CROSSWIND

DWG TYTLE:

1"-N-151-01CS-N

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK

SCALE N.A.

DRAWN SPS | CHECKED CBO | APPROVED CGI | DATE 29/09/25

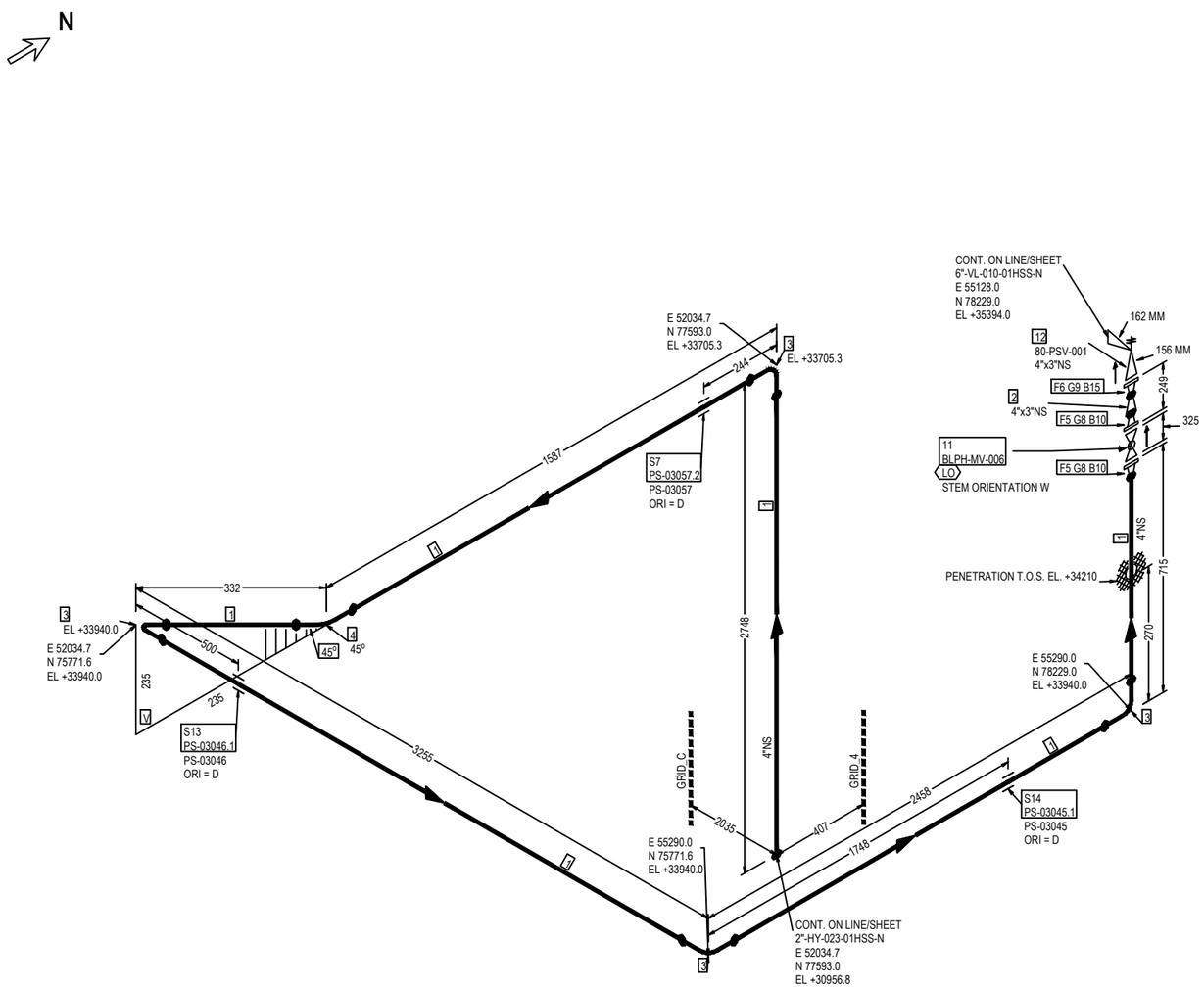
SIZE: A3

DRAWING NO. 123A90-DDL-PP-DI-71000_062

SHEET 2/2

REV. 02

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FABRICATION MATERIALS

| PT NO | COMPONENT DESCRIPTION | N.S. | ITEM CODE | Q.TY | WEIGHT |
|---|---|---|---|---|---|
| 1 | Pipe ASME B36.19M PE 3,05 SML ASTM A312 Gr.TP316/316L | 4 | PIPESS00560400 | 9674MM | 82.23 |
| 2 | Reducer Concentric ASME B16.9 BW 3,05x3,05 WRS ASTM A403 Gr.WP316/316L | 4 x 3 | REC0SS00200403 | 1 | 0.79 |
| 3 | 90 Deg Elbow Long Radius ASME B16.9 BW 3,05 WRS ASTM A403 Gr.WP316/316L | 4 | E90RSS01020400 | 4 | 8.04 |
| 4 | 45 Deg Elbow Long Radius ASME B16.9 BW 3,05 WRS ASTM A403 Gr.WP316/316L | 4 | E45RSS00760400 | 1 | 0.99 |
| 5 | Flange WN ASME B16.5 150LB RF 3,05 FRG ASTM A182 Gr.F316/316L | 4 | FLW0SS00880400 | 2 | 13.80 |
| 6 | Flange WN ASME B16.5 150LB RF 3,05 FRG ASTM A182 Gr.F316/316L | 3 | FLW0SS00870300 | 1 | 4.57 |
| | SUPPORTS | | | | |
| 7 | /PS-03057.2 | 4 | | 1 | 0.67 |
| | | | TOTAL FABRICATION WEIGHT | | 111.09 |

ERECTION MATERIALS

| PT NO | COMPONENT DESCRIPTION | N.S. | ITEM CODE | Q.TY | WEIGHT |
|---|---|---|---|---|---|
| 8 | Gasket Spiral Wound Thk. 3.2 mm ASME B16.20 150LB RF GSK AISI 316 + GRAPHITE c/w INNER RING | 4 | GSW0GK11150400 | 2 | 0.48 |
| 9 | Gasket Spiral Wound Thk. 3.2 mm ASME B16.20 150LB RF GSK AISI 316 + GRAPHITE c/w INNER RING | 3 | GSW0GK11140300 | 1 | 0.17 |
| 10 | 90 Stud Bolt + 2 Heavy Nuts ASME B1.1 ASTM A193 Gr.B7 - A194 Gr.2H Hot dip galvanized | 5/8 | SB20BO04190300 | 16 | 4.00 |
| 15 | 120 Stud Bolt + 2 Heavy Nuts ASME B1.1 ASTM A193 Gr.B7 - A194 Gr.2H Hot dip galvanized | 5/8 | SB20BO32470300 | 4 | 1.16 |
| 11 | Block & Bleed Valve API 6D FLG 150LB RF BA01C01RFHS | 4 | VLBLNN01450400 | 1 | 80.00 |
| | INSTRUMENTS | | | | |
| 12 | Pressure Safety Valve flanged 150LB RF/150LB RF 80-PSV-001 | 4 x 3 | | 1 | 52.00 |
| | SUPPORTS | | | | |
| 13 | /PS-03046.1 | 4 | | 1 | 0.67 |
| 14 | /PS-03045.1 | 4 | | 1 | 0.67 |
| | | | TOTAL ERECTION WEIGHT | | 139.15 |
| | | | TOTAL WEIGHT | | 250.24 |

| REFERENCE DOCUMENTS | | NDT EXAMINATION | | | | INSULATION & PAINTING | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 123A90-DDL-PP-RE-70001 | STRESS ANALYSIS REPORT | NDT TYPE | % | NDT TYPE | % | INS. TYPE | INS. THK. | INS. SURF. (m²) | | | | | | |
| 123A90-DDL-PR-PID-80012 | P&ID | RT | 100 | VT | 100 | N | | | | | | | | |
| 123A90-DDL-MAT-SP-60003 | INSULATION SPECIFICATION | INSPECTION CATEGORY | 1 | MT/PT | 100Ratio | PAINT SYS. | BASE RAL | PAINT. SURF. (m²) | | | | | | |
| 123A90-DDL-MAT-SP-60006 | COATING & PAINTING SPEC. | TESTING | | | | 6A | RAL 9002 | 4.18 | | | | | | |
| 123A90-DDL-PP-00-72000 | PIPING SUPPORT BOOK | TEST FLUID | | TEST PRESS. (barg) | | HEAT TRACING | | | | | | | | |
| 123A90-DDL-PP-SP-70029 | PIPING MATERIAL CLASS | Water | | 15 | | - | | | 02 | 29/09/25 | AS-BUILT (ASB) | SPS | CBO | CGI |
| SYMBOLS LEGEND: BUTT WELD, THREADED, HEAT TRACING, SOCKET, PIPE SUPPORT, INSULATED | | PROCESS LINE DATA | | | | LINE DATA | | | 01 | 12/07/24 | ACCEPTED FOR CONSTRUCTION | MMA | CBO | DLO |
| | | DESIGN TEMP. (°C) | | DESIGN PRESS. (barg) | | STRESS SYS. | PED CAT. | PWHT | 00 | 07/06/24 | ISSUE FOR REVIEW | MMA | CBO | DLO |
| | | -29 | 100 | | 10 | 01 | II | No | Revision Number | Date | Description | Prepared by | Checked by | Approved by |

ROSETTI MARINO

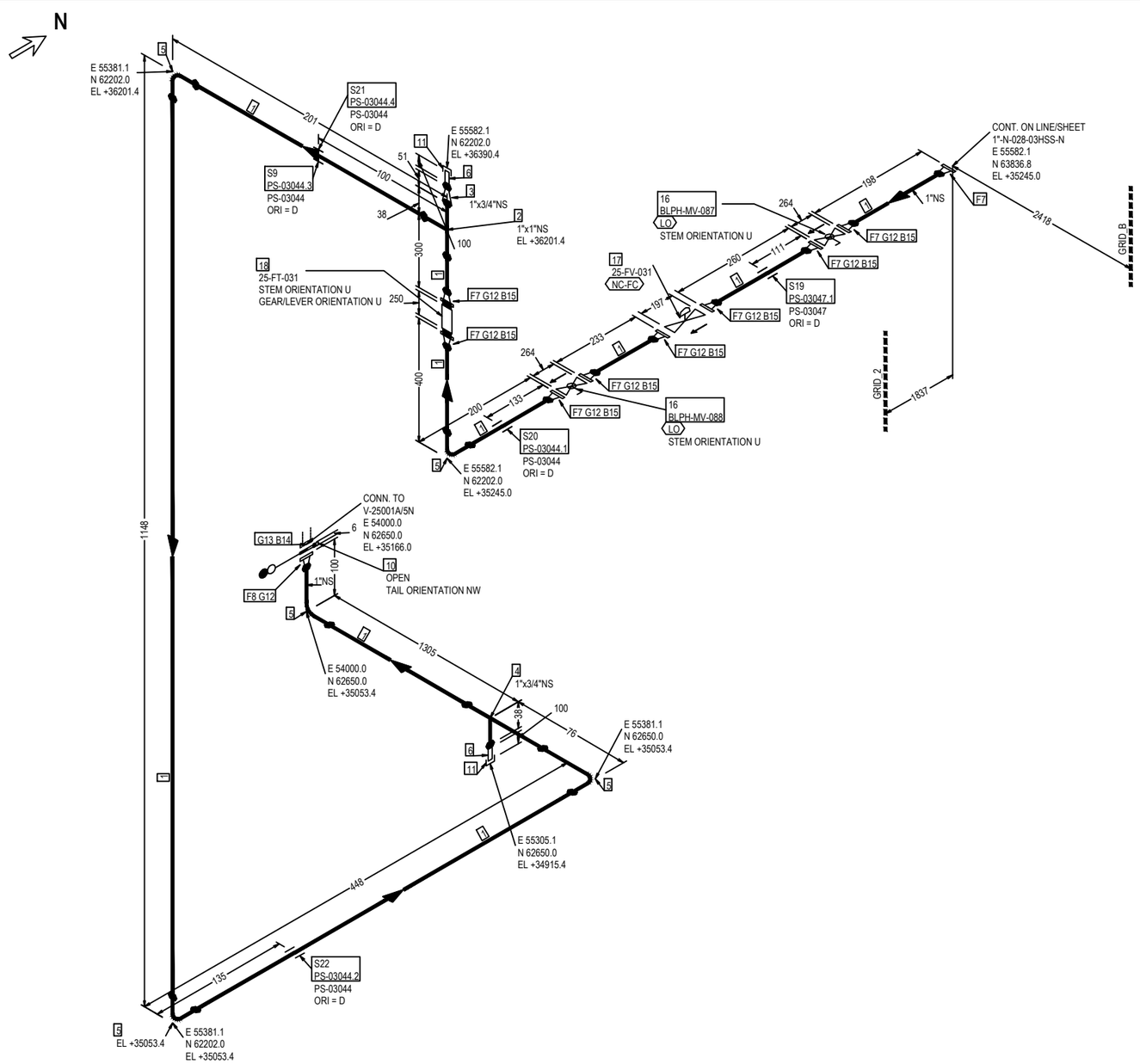
# CROSSWIND

DWG TYTLE:

## 4"-HY-152-01HSS-N

| CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK | | | SCALE N.A. |
|---|---|---|---|
| DRAWN SPS | CHECKED CBO | APPROVED CGI | DATE 29/09/25 |
| SIZE: A3 | DRAWING NO. 123A90-DDL-PP-DI-71000_063 | SHEET 1/1 | REV. 02 |

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FABRICATION MATERIALS

| PT NO | COMPONENT DESCRIPTION | N.S. | ITEM CODE | Q.TY | WEIGHT |
|---|---|---|---|---|---|
| 1 | Pipe ASME B36.19M PE 3,38 SML ASTM A312 Gr.TP316/316L | 1 | PIPESS00480100 | 3717MM | 9.29 |
| 2 | Tee ASME B16.9 BW 3,38 WRS ASTM A403 Gr.WP316/316L | 1 x 1 | TEE0SS00550100 | 1 | 0.34 |
| 3 | Reducer Concentric ASME B16.9 BW 3,38x2,87 WRS ASTM A403 Gr.WP316/316L | 1 x 3/4 | REC0SS01200130Q | 1 | 0.14 |
| 4 | Tee Reducing ASME B16.9 BW 3,38x2,87 WRS ASTM A403 Gr.WP316/316L | 1 x 3/4 | TER0SS0171013Q | 1 | 0.34 |
| 5 | 90 Deg Elbow Long Radius ASME B16.9 BW 3,38 WRS ASTM A403 Gr.WP316/316L | 1 | E90RSS00670100 | 5 | 0.70 |
| 6 | Nipple L=100mm ASME B36.19M THRD-M NPT x PE 2,87 SML ASTM A312 Gr.TP316/316L | 3/4 | N100SS02653Q00 | 2 | 0.30 |
| 7 | Flange WN ASME B16.5 300LB RF 3,38 FRG ASTM A182 Gr.F316/316L | 1 | FLW0SS03270100 | 9 | 16.47 |
| 8 | Flange WN For Jackscrews ASME B16.5 300LB RF 3,38 FRG ASTM A182 Gr.F316/316L | 1 | FLWDSS00770100 | 1 | 1.83 |
| | SUPPORTS | | | | |
| 9 | /PS-03044.3 | 1 | | 1 | 0.50 |
| | | | TOTAL FABRICATION WEIGHT | | 29.91 |

ERECTION MATERIALS

| PT NO | COMPONENT DESCRIPTION | N.S. | ITEM CODE | Q.TY | WEIGHT |
|---|---|---|---|---|---|
| 10 | Spectacle Blinds ASME B16.48 THRU BOLTED 300LB RF FPL ASTM A240 Gr.TP316/316L | 1 | BSPESS01580100 | 1 | 0.51 |
| 11 | Cap Forged ASME B16.11 THRD-F NPT 3000# FRG ASTM A182 Gr.F316/316L | 3/4 | CAPFSS00023Q00 | 2 | 0.38 |
| 12 | Gasket Spiral Wound Thk. 3.2 mm ASME B16.20 300LB RF GSK AISI 316 + GRAPHITE c/w INNER RING | 1 | GSW0GK111210100 | 9 | 0.63 |
| 13 | Insulation Kit Ends as per ASME B16.5 300LB RF | 1 | SPIKNN01420100 | 1 | 0.07 |
| 14 | 105 Stud Bolt + 2 Heavy Nuts ASME B1.1 ASTM A193 Gr.B7 - A194 Gr.2H Hot dip galvanized | 5/8 | SB20BO04200300 | 4 | 1.08 |
| 15 | 80 Stud Bolt + 2 Heavy Nuts ASME B1.1 ASTM A193 Gr.B7 - A194 Gr.2H Hot dip galvanized | 5/8 | SB20BO01870300 | 32 | 7.36 |
| 16 | Double Block & Bleed Valve API 6D FLG 300LB RF DA03C01RFH | 1 | VLBBNN07190100 | 2 | 27.00 |
| | INSTRUMENTS | | | | |
| 17 | Control Valve - FLG 300 #RF 25-FV-031 | 1 | | 1 | 40.00 |
| 18 | Flow Transmitter - ANSI - FLG 300# 25-FT-031 | 1 | | 1 | 12.00 |
| | SUPPORTS | | | | |
| 19 | /PS-03047.1 | 1 | | 1 | 0.19 |
| 20 | /PS-03044.1 | 1 | | 1 | 0.19 |
| 21 | /PS-03044.4 | 1 | | 1 | 0.01 |
| 22 | /PS-03044.2 | 1 | | 1 | 0.19 |
| | | | TOTAL ERECTION WEIGHT | | 89.61 |
| | | | TOTAL WEIGHT | | 119.52 |

| REFERENCE DOCUMENTS | |
|---|---|
| 123A90-DDL-PP-RE-70001 | STRESS ANALYSIS REPORT |
| 123A90-DDL-PR-PID-80015 | P&ID |
| 123A90-DDL-MAT-SP-60003 | INSULATION SPECIFICATION |
| 123A90-DDL-MAT-SP-60006 | COATING & PAINTING SPEC. |
| 123A90-DDL-PP-00-72000 | PIPING SUPPORT BOOK |
| 123A90-DDL-PP-SP-70029 | PIPING MATERIAL CLASS |

SYMBOLS LEGEND:
BUTT WELD · THREADED · HEAT TRACING · SOCKET · PIPE SUPPORT · INSULATED

| NDT EXAMINATION | | | | INSULATION & PAINTING | | |
|---|---|---|---|---|---|---|
| NDT TYPE | % | NDT TYPE | % | INS. TYPE | INS. THK. | INS. SURF. (m²) |
| RT | 100 | VT | 100 | N | | |
| INSPECTION CATEGORY | 1 | MT/PT | 100Ratio | PAINT SYS. | BASE RAL | PAINT. SURF. (m²) |
| TESTING | | | | 6A | RAL 9002 | 0.63 |
| TEST FLUID | | TEST PRESS. (barg) | | HEAT TRACING | | |
| Water | | 60 | | - | | |
| PROCESS LINE DATA | | | | LINE DATA | | |
| DESIGN TEMP. (°C) | | DESIGN PRESS. (barg) | | STRESS SYS. | PED CAT. | PWHT |
| -29 | 80 | | 40 | - | II | No |

| Revision Number | Date | Description | Prepared by | Checked by | Approved by |
|---|---|---|---|---|---|
| 02 | 29/09/25 | AS-BUILT (ASB) | SPS | CBO | CGI |
| 01 | 12/07/24 | ACCEPTED FOR CONSTRUCTION | MMA | CBO | DLO |
| 00 | 07/06/24 | ISSUE FOR REVIEW | MMA | CBO | DLO |

ROSETTI MARINO

CROSSWIND

DWG TYTLE:

# 1"-HY-153-03HSS-N

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK

SCALE N.A.

DRAWN SPS | CHECKED CBO | APPROVED CGI | DATE 29/09/25

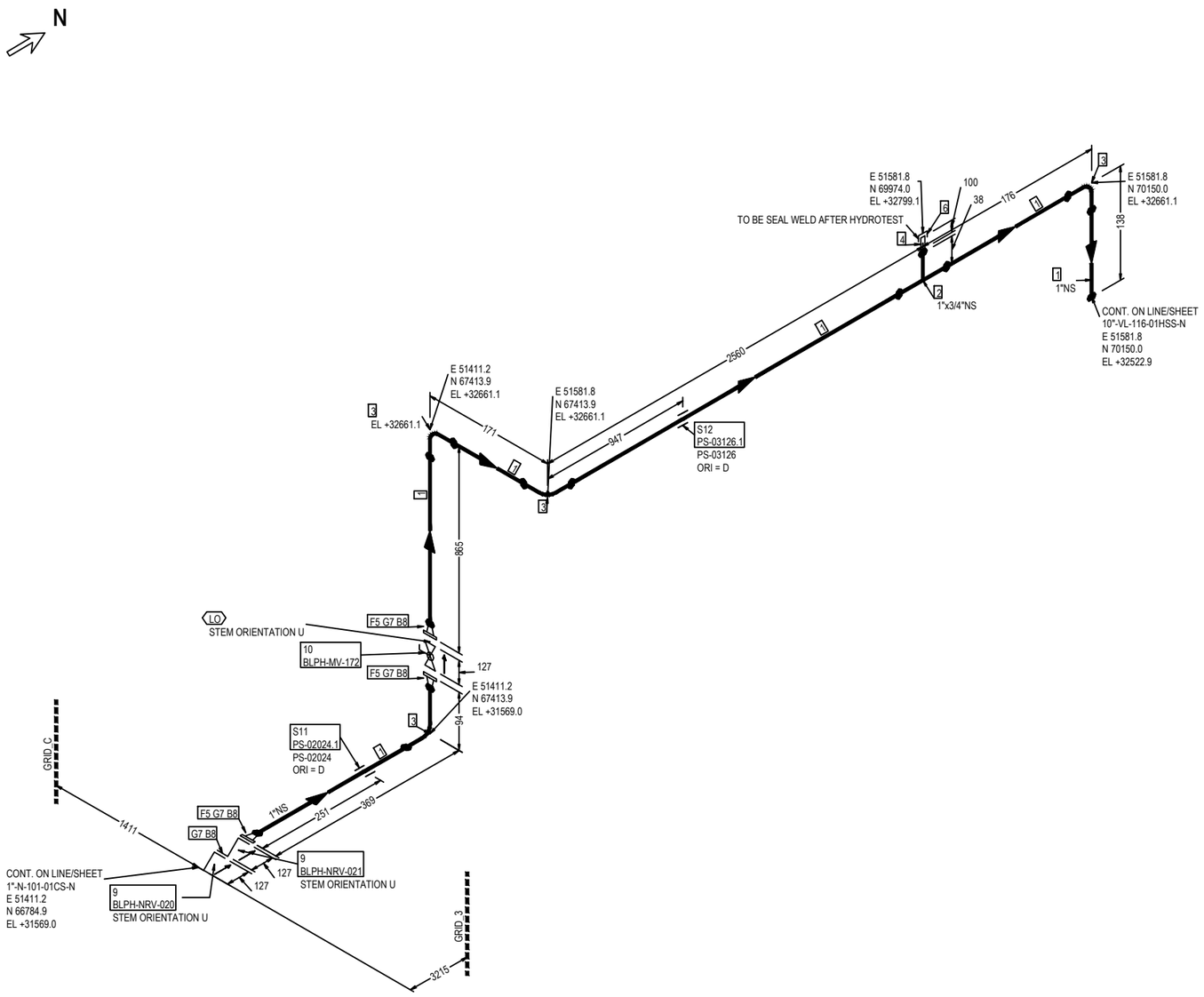
SIZE: A3

DRAWING NO. 123A90-DDL-PP-DI-71000_064

SHEET 1/1

REV. 02

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FABRICATION MATERIALS

| PT NO | COMPONENT DESCRIPTION | N.S. | ITEM CODE | Q.TY | WEIGHT |
|---|---|---|---|---|---|
| 1 | Pipe ASME B36.19M PE 3,38 SML ASTM A312 Gr.TP316/316L | 1 | PIPESS00480100 | 3825MM | 9.56 |
| 2 | Tee Reducing ASME B16.9 BW 3,38x2,87 WRS ASTM A403 Gr.WP316/316L | 1 x 3/4 | TER0SS0171013Q | 1 | 0.34 |
| 3 | 90 Deg Elbow Long Radius ASME B16.9 BW 3,38 WRS ASTM A403 Gr.WP316/316L | 1 | E90RSS00670100 | 4 | 0.56 |
| 4 | Nipple L=100mm ASME B36.19M THRD-M NPT x PE 2,87 SML ASTM A312 Gr.TP316/316L | 3/4 | N100SS02653Q00 | 1 | 0.15 |
| 5 | Flange WN ASME B16.5 150LB RF 3,38 FRG ASTM A182 Gr.F316/316L | 1 | FLW0SS00930100 | 3 | 4.26 |
| | | | TOTAL FABRICATION WEIGHT | | 14.87 |

ERECTION MATERIALS

| PT NO | COMPONENT DESCRIPTION | N.S. | ITEM CODE | Q.TY | WEIGHT |
|---|---|---|---|---|---|
| 6 | Cap Forged ASME B16.11 THRD-F NPT 3000# FRG ASTM A182 Gr.F316/316L | 3/4 | CAPFSS00023Q00 | 1 | 0.19 |
| 7 | Gasket Spiral Wound Thk. 3.2 mm ASME B16.20 150LB RF GSK AISI 316 + GRAPHITE c/w INNER RING | 1 | GSW0GK11100100 | 4 | 0.24 |
| 8 | 65 Stud Bolt + 2 Heavy Nuts ASME B1.1 ASTM A193 Gr.B7 - A194 Gr.2H Hot dip galvanized | 1/2 | SB20BO01080200 | 16 | 1.92 |
| 9 | Check Valve Piston EN ISO 15761 FLG 150LB RF CH01C02RFH | 1 | VDRNNN02460100 | 2 | 0.00 |
| 10 | Ball Valve Split Body FB API 6D FLG 150LB RF BS01C01RFH | 1 | VBC0NN24350100 | 1 | 5.80 |
| | SUPPORTS | | | | |
| 11 | /PS-02024.1 | 1 | | 1 | 0.19 |
| 12 | /PS-03126.1 | 1 | | 1 | 0.19 |
| | | | TOTAL ERECTION WEIGHT | | 8.53 |
| | | | TOTAL WEIGHT | | 23.40 |

| REFERENCE DOCUMENTS | |
|---|---|
| 123A90-DDL-PP-RE-70001 | STRESS ANALYSIS REPORT |
| 123A90-DDL-PR-PID-80028 | P&ID |
| 123A90-DDL-MAT-SP-60003 | INSULATION SPECIFICATION |
| 123A90-DDL-MAT-SP-60006 | COATING & PAINTING SPEC. |
| 123A90-DDL-PP-00-72000 | PIPING SUPPORT BOOK |
| 123A90-DDL-PP-SP-70029 | PIPING MATERIAL CLASS |

SYMBOLS LEGEND:
BUTT WELD · THREADED · HEAT TRACING · SOCKET · PIPE SUPPORT · INSULATED

| NDT EXAMINATION | | | |
|---|---|---|---|
| NDT TYPE | % | NDT TYPE | % |
| RT | 10 | VT | 100 |
| INSPECTION CATEGORY | 2 | MT/PT | 10 |
| TESTING | | | |
| TEST FLUID | | TEST PRESS. (barg) | |
| Water | | 5.25 | |
| PROCESS LINE DATA | | | |
| DESIGN TEMP. (°C) | | DESIGN PRESS. (barg) | |
| -29 | 100 | | 3.5 |

| INSULATION & PAINTING | | |
|---|---|---|
| INS. TYPE | INS. THK. | INS. SURF. (m²) |
| N | | |
| PAINT SYS. | BASE RAL | PAINT. SURF. (m²) |
| 6A | RAL 9002 | 0.50 |
| HEAT TRACING | | |
| - | | |
| LINE DATA | | |
| STRESS SYS. | PED CAT. | PWHT |
| - | Art. 4, par. 3 | No |

| Revision Number | Date | Description | Prepared by | Checked by | Approved by |
|---|---|---|---|---|---|
| 02 | 29/09/25 | AS-BUILT (ASB) | SPS | CBO | CGI |
| 01 | 26/07/24 | ACCEPTED FOR CONSTRUCTION | MMA | CBO | DLO |
| 00 | 07/06/24 | ISSUE FOR REVIEW | MMA | CBO | DLO |

ROSETTI MARINO

# CROSSWIND

DWG TYTLE:

## 1"-N-154-01HSS-N

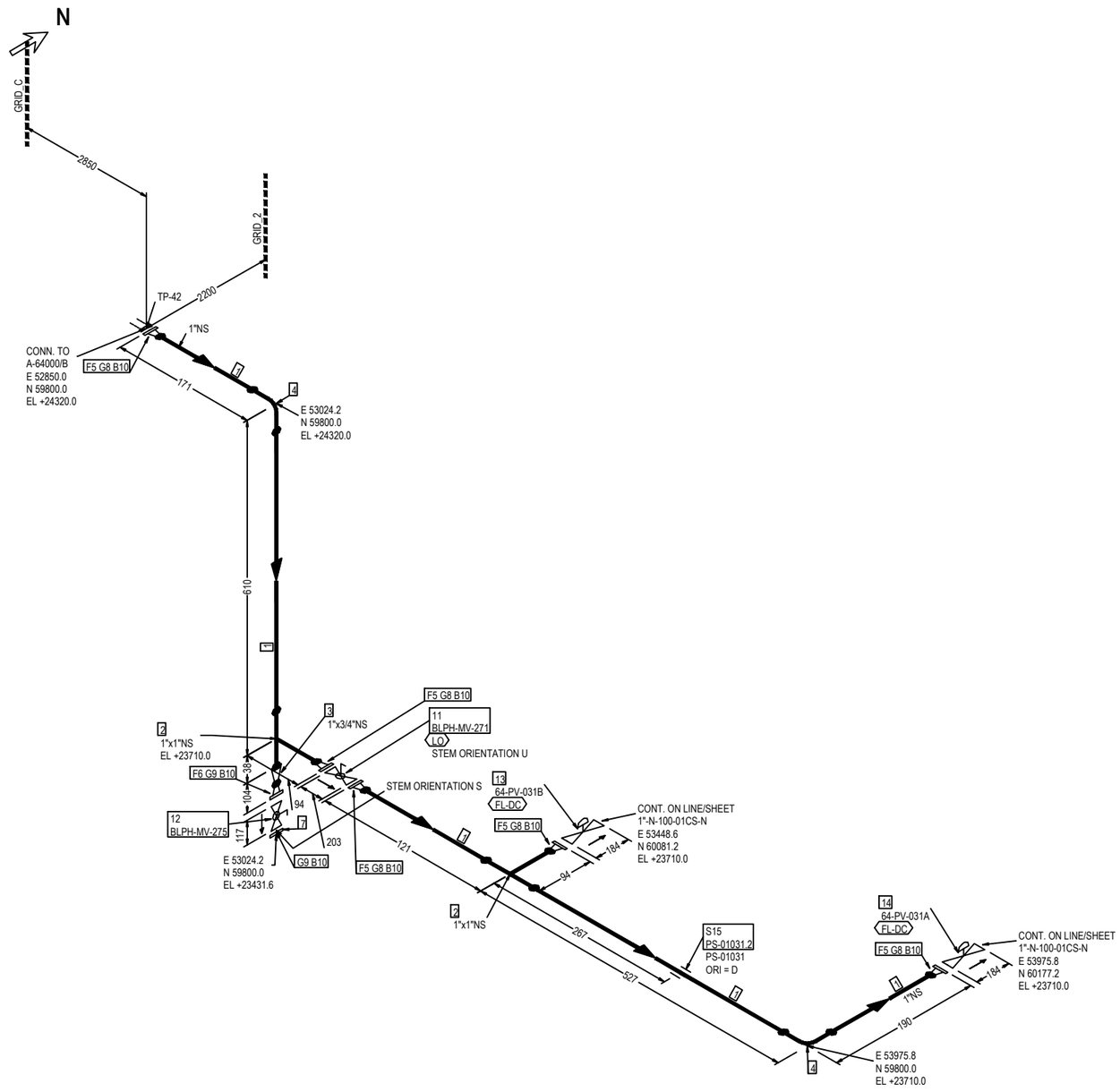
CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK

SCALE N.A.

DRAWN SPS | CHECKED CBO | APPROVED CGI | DATE 29/09/25

SIZE: A3 | DRAWING NO. 123A90-DDL-PP-DI-71000_065 | SHEET 1/1 | REV. 02

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FABRICATION MATERIALS

| PT NO | COMPONENT DESCRIPTION | N.S. | ITEM CODE | Q.TY | WEIGHT |
|---|---|---|---|---|---|
| 1 | Pipe ASME B36.10M PE 4,55 SML ASTM/ASME A/SA333 Gr.6 | 1 | PIPECS08300100 | 1185MM | 3.79 |
| 2 | Tee ASME B16.9 BW 4,55 WRS ASTM/ASME A/SA420 Gr.WPL6 | 1 x 1 | TEE0CS01110100 | 2 | 0.92 |
| 3 | Reducer Concentric ASME B16.9 BW 4,55x3,91 WRS ASTM/ASME A/SA420 Gr.WPL6 | 1 x 3/4 | REC0CS2203013Q | 1 | 0.18 |
| 4 | 90 Deg Elbow Long Radius ASME B16.9 BW 4,55 WRS ASTM/ASME A/SA420 Gr.WPL6 | 1 | E90RCS01780100 | 2 | 0.36 |
| 5 | Flange WN ASME B16.5 150LB RF 4,55 FRG ASTM/ASME A/SA350 Gr.LF2 | 1 | FLW0CS16540100 | 5 | 7.00 |
| 6 | Flange WN ASME B16.5 150LB RF 3,91 FRG ASTM/ASME A/SA350 Gr.LF2 | 3/4 | FLW0CS16523Q00 | 1 | 0.90 |
| | | | TOTAL FABRICATION WEIGHT | | 13.15 |

ERECTION MATERIALS

| PT NO | COMPONENT DESCRIPTION | N.S. | ITEM CODE | Q.TY | WEIGHT |
|---|---|---|---|---|---|
| 7 | Flange Blind ASME B16.5 150LB RF FRG ASTM/ASME A/SA350 Gr.LF2 | 3/4 | FLB0CS07333Q00 | 1 | 0.90 |
| 8 | Gasket Spiral Wound Thk. 3.2 mm ASME B16.20 150LB RF GSK AISI 316 + GRAPHITE c/w INNER RING | 1 | GSW0GK11100100 | 5 | 0.30 |
| 9 | Gasket Spiral Wound Thk. 3.2 mm ASME B16.20 150LB RF GSK AISI 316 + GRAPHITE c/w INNER RING | 3/4 | GSW0GK11093Q00 | 2 | 0.10 |
| 10 | 65 Stud Bolt + 2 Heavy Nuts ASME B1.1 ASTM A193 Gr.B7 - A194 Gr.2H Hot dip galvanized | 1/2 | SB20BO01080200 | 28 | 3.36 |
| 11 | Block & Bleed Valve API 6D FLG 150LB RF BS01B01RFS | 1 | VLBLNN01280100 | 1 | 12.50 |
| 12 | Ball Valve Split Body FB API 6D FLG 150LB RF BS01B01RF | 3/4 | VBC0NN24703Q00 | 1 | 5.30 |
| | INSTRUMENTS | | | | |
| 13 | Control Valve - FLG 150 #RF 64-PV-031B | 1 | | 1 | 48.00 |
| 14 | Control Valve - FLG 150 #RF 64-PV-031A | 1 | | 1 | 48.00 |
| | SUPPORTS | | | | |
| 15 | /PS-01031.2 | 1 | | 1 | 0.19 |
| | | | TOTAL ERECTION WEIGHT | | 118.65 |
| | | | TOTAL WEIGHT | | 131.80 |

| REFERENCE DOCUMENTS | |
|---|---|
| 123A90-DDL-PP-RE-70001 | STRESS ANALYSIS REPORT |
| 123A90-DDL-PR-PID-80027 | P&ID |
| 123A90-DDL-MAT-SP-60003 | INSULATION SPECIFICATION |
| 123A90-DDL-MAT-SP-60006 | COATING & PAINTING SPEC. |
| 123A90-DDL-PP-00-72000 | PIPING SUPPORT BOOK |
| 123A90-DDL-PP-SP-70029 | PIPING MATERIAL CLASS |

SYMBOLS LEGEND:
BUTT WELD — THREADED — HEAT TRACING
SOCKET — PIPE SUPPORT — INSULATED

| NDT EXAMINATION | | | |
|---|---|---|---|
| NDT TYPE | % | NDT TYPE | % |
| RT | 10 | VT | 100 |
| INSPECTION CATEGORY | 2 | MT/PT | 10 |
| TESTING | | | |
| TEST FLUID | | TEST PRESS. (barg) | |
| Water | | 18 | |
| PROCESS LINE DATA | | | |
| DESIGN TEMP. (°C) | | DESIGN PRESS. (barg) | |
| -46 | 100 | | 12 |

| INSULATION & PAINTING | | |
|---|---|---|
| INS. TYPE | INS. THK. | INS. SURF. (m²) |
| N | | |
| PAINT SYS. | BASE RAL | PAINT. SURF. (m²) |
| 1 | RAL 9002 | 0.26 |
| HEAT TRACING | | |
| - | | |
| LINE DATA | | |
| STRESS SYS. | PED CAT. | PWHT |
| - | Art. 4, par. 3 | No |

| Revision Number | Date | Description | Prepared by | Checked by | Approved by |
|---|---|---|---|---|---|
| 02 | 29/09/25 | AS-BUILT (ASB) | SPS | CBO | CGI |
| 01 | 26/07/24 | ACCEPTED FOR CONSTRUCTION | MMA | CBO | DLO |
| 00 | 07/06/24 | ISSUE FOR REVIEW | MMA | CBO | DLO |

ROSETTI MARINO

# CROSSWIND

DWG TYTLE:

## 1"-N-158-01CS-N

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK

SCALE N.A.

DRAWN SPS | CHECKED CBO | APPROVED CGI | DATE 29/09/25

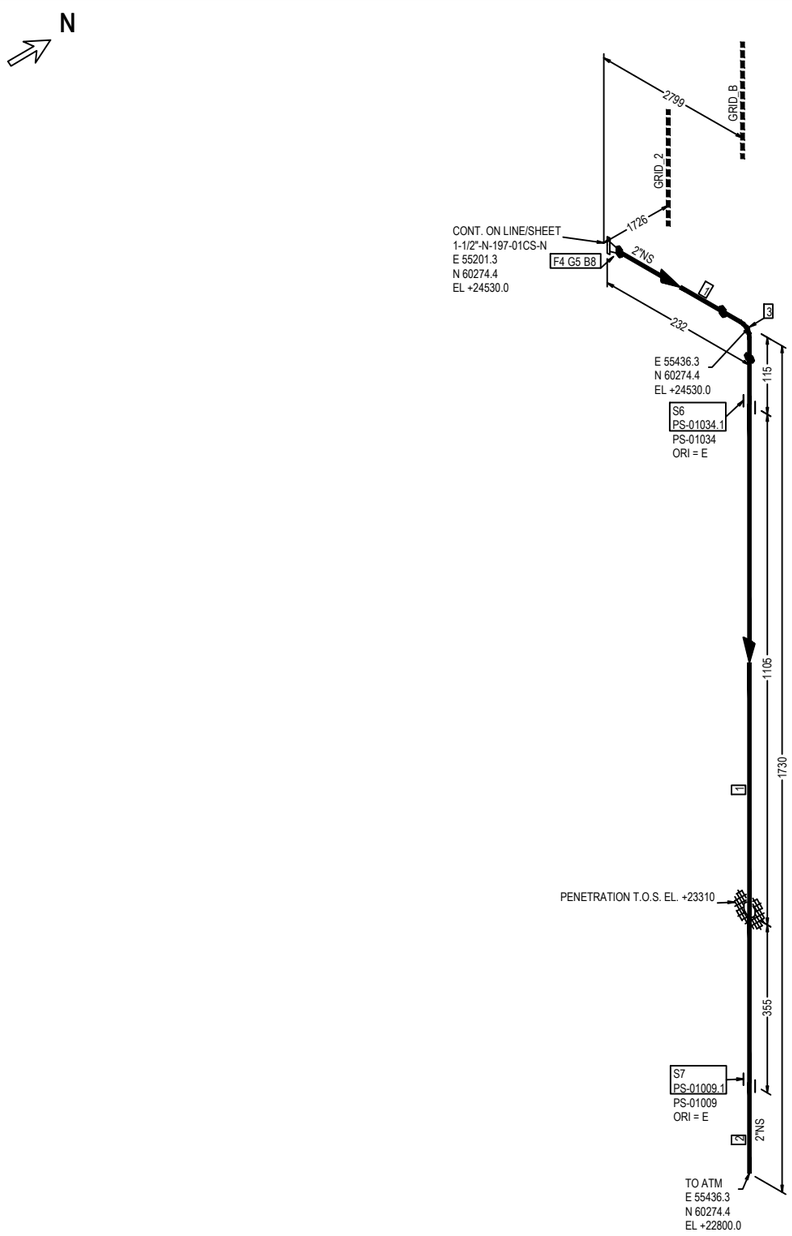
SIZE: A3

DRAWING NO. 123A90-DDL-PP-DI-71000_066

SHEET 1/1

REV. 02

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FABRICATION MATERIALS

| PT NO | COMPONENT DESCRIPTION | N.S. | ITEM CODE | Q.TY | WEIGHT |
|---|---|---|---|---|---|
| 1 | Pipe ASME B36.10M PE 5,54 SML ASTM/ASME A/SA333 Gr.6 | 2 | PIPECS02960200 | 1236MM | 9.27 |
| 2 | Pipe ASME B36.10M PE 4,55 SML ASTM/ASME A/SA333 Gr.6 | 2 | PIPECS08300100 | 510MM | 3.82 |
| 3 | 90 Deg Elbow Long Radius ASME B16.9 BW 5,54 WRS ASTM/ASME A/SA420 Gr.WPL6 | 2 | E90RCS01330200 | 1 | 0.93 |
| 4 | Flange WN ASME B16.5 150LB RF 5,54 FRG ASTM/ASME A/SA350 Gr.LF2 | 2 | FLW0CS02210200 | 1 | 2.70 |
| | | | TOTAL FABRICATION WEIGHT | | 16.72 |

ERECTION MATERIALS

| PT NO | COMPONENT DESCRIPTION | N.S. | ITEM CODE | Q.TY | WEIGHT |
|---|---|---|---|---|---|
| 5 | Gasket Spiral Wound Thk. 3.2 mm ASME B16.20 150LB RF GSK AISI 316 + GRAPHITE c/w INNER RING | 2 | GSW0GK11130200 | 1 | 0.10 |
| 8 | 85 Stud Bolt + 2 Heavy Nuts ASME B1.1 ASTM A193 Gr.B7 - A194 Gr.2H Hot dip galvanized | 5/8 | SB20BO00660300 | 4 | 0.96 |
| | SUPPORTS | | | | |
| 6 | /PS-01034.1 | 2 | | 1 | 0.33 |
| 7 | /PS-01009.1 | 2 | | 1 | 0.33 |
| | | | TOTAL ERECTION WEIGHT | | 1.72 |
| | | | TOTAL WEIGHT | | 18.44 |

| REFERENCE DOCUMENTS | | NDT EXAMINATION | | | | INSULATION & PAINTING | | |
|---|---|---|---|---|---|---|---|---|
| 123A90-DDL-PP-RE-70001 | STRESS ANALYSIS REPORT | NDT TYPE | % | NDT TYPE | % | INS. TYPE | INS. THK. | INS. SURF. (m²) |
| 123A90-DDL-PR-PID-80027 | P&ID | RT | 10 | VT | 100 | N | | |
| 123A90-DDL-MAT-SP-60003 | INSULATION SPECIFICATION | INSPECTION CATEGORY | 2 | MT/PT | 10 | PAINT SYS. | BASE RAL | PAINT. SURF. (m²) |
| 123A90-DDL-MAT-SP-60006 | COATING & PAINTING SPEC. | TESTING | | | | 1 | RAL 9002 | 0.37 |
| 123A90-DDL-PP-00-72000 | PIPING SUPPORT BOOK | TEST FLUID | | TEST PRESS. (barg) | | HEAT TRACING | | |
| 123A90-DDL-PP-SP-70029 | PIPING MATERIAL CLASS | N/A | | N/A | | - | | |

| PROCESS LINE DATA | | | | LINE DATA | | |
|---|---|---|---|---|---|---|
| DESIGN TEMP. (°C) | | DESIGN PRESS. (barg) | | STRESS SYS. | PED CAT. | PWHT |
| -46 | 100 | | 3.5 | - | Art. 4, par. 3 | No |

SYMBOLS LEGEND:
BUTT WELD — THREADED — HEAT TRACING
SOCKET — PIPE SUPPORT — INSULATED

| Revision Number | Date | Description | Prepared by | Checked by | Approved by |
|---|---|---|---|---|---|
| 02 | 29/09/25 | AS-BUILT (ASB) | SPS | CBO | CGI |
| 01 | 26/07/24 | ACCEPTED FOR CONSTRUCTION | MMA | CBO | DLO |
| 00 | 07/06/24 | ISSUE FOR REVIEW | MMA | CBO | DLO |

ROSETTI MARINO

# CROSSWIND

DWG TYTLE:

## 2"-AV-160-01CS-N

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK

SCALE N.A.

DRAWN SPS | CHECKED CBO | APPROVED CGI | DATE 29/09/25

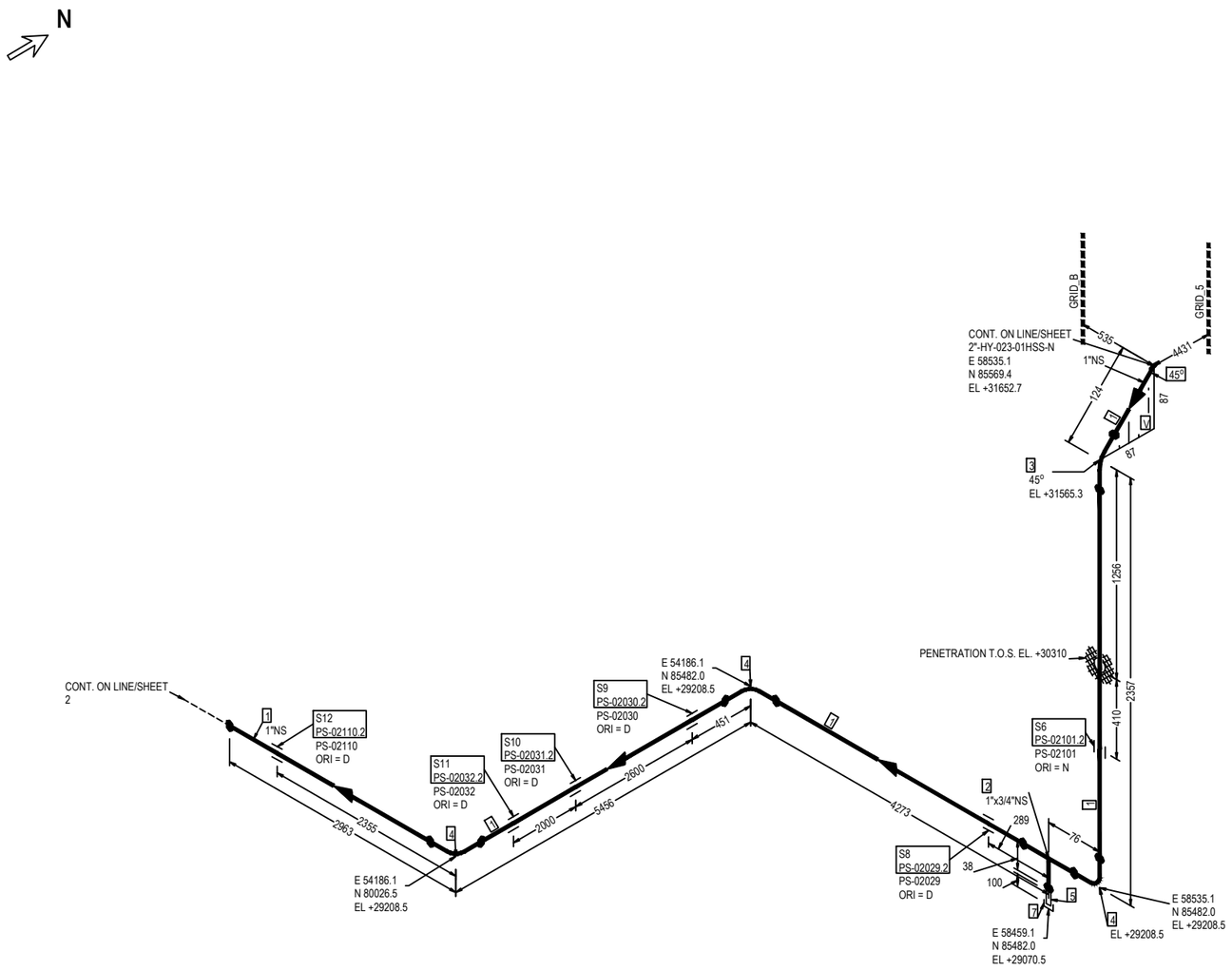
SIZE: A3

DRAWING NO. 123A90-DDL-PP-DI-71000_067

SHEET 1/1

REV. 02

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FABRICATION MATERIALS

| PT NO | COMPONENT DESCRIPTION | N.S. | ITEM CODE | Q.TY | WEIGHT |
|---|---|---|---|---|---|
| 1 | Pipe ASME B36.19M PE 3,38 SML ASTM A312 Gr.TP316/316L | 1 | PIPESS00480100 | 14901MM | 37.25 |
| 2 | Tee Reducing ASME B16.9 BW 3,38x2,87 WRS ASTM A403 Gr.WP316/316L | 1 x 3/4 | TER0SS0171013Q | 1 | 0.34 |
| 3 | 45 Deg Elbow Long Radius ASME B16.9 BW 3,38 WRS ASTM A403 Gr.WP316/316L | 1 | E45RSS00860100 | 1 | 0.07 |
| 4 | 90 Deg Elbow Long Radius ASME B16.9 BW 3,38 WRS ASTM A403 Gr.WP316/316L | 1 | E90RSS00670100 | 3 | 0.42 |
| 5 | Nipple L=100mm ASME B36.19M THRD-M NPT x PE 2,87 SML ASTM A312 Gr.TP316/316L | 3/4 | N100SS02653Q00 | 1 | 0.15 |
| | SUPPORTS | | | | |
| 6 | /PS-02101.2 | 1 | | 1 | 0.19 |
| | | | TOTAL FABRICATION WEIGHT | | 38.42 |

ERECTION MATERIALS

| PT NO | COMPONENT DESCRIPTION | N.S. | ITEM CODE | Q.TY | WEIGHT |
|---|---|---|---|---|---|
| 7 | Cap Forged ASME B16.11 THRD-F NPT 3000# FRG ASTM A182 Gr.F316/316L | 3/4 | CAPFSS00023Q00 | 1 | 0.19 |
| | SUPPORTS | | | | |
| 8 | /PS-02029.2 | 1 | | 1 | 0.19 |
| 9 | /PS-02030.2 | 1 | | 1 | 0.19 |
| 10 | /PS-02031.2 | 1 | | 1 | 0.19 |
| 11 | /PS-02032.2 | 1 | | 1 | 0.19 |
| 12 | /PS-02110.2 | 1 | | 1 | 0.19 |
| | | | TOTAL ERECTION WEIGHT | | 1.14 |
| | | | TOTAL WEIGHT | | 39.56 |

| REFERENCE DOCUMENTS | |
|---|---|
| 123A90-DDL-PP-RE-70001 | STRESS ANALYSIS REPORT |
| 123A90-DDL-PR-PID-80012 | P&ID |
| 123A90-DDL-MAT-SP-60003 | INSULATION SPECIFICATION |
| 123A90-DDL-MAT-SP-60006 | COATING & PAINTING SPEC. |
| 123A90-DDL-PP-00-72000 | PIPING SUPPORT BOOK |
| 123A90-DDL-PP-SP-70029 | PIPING MATERIAL CLASS |

SYMBOLS LEGEND:
BUTT WELD · THREADED · HEAT TRACING · SOCKET · PIPE SUPPORT · INSULATED

| NDT EXAMINATION | | | | |
|---|---|---|---|---|
| NDT TYPE | % | NDT TYPE | % | |
| RT | 100 | VT | 100 | |
| INSPECTION CATEGORY | 1 | MT/PT | 100Ratio | |
| TESTING | | | | |
| TEST FLUID | | TEST PRESS.[barg] | | |
| Water | | 15 | | |
| PROCESS LINE DATA | | | | |
| DESIGN TEMP. [°C] | | DESIGN PRESS.[barg] | | |
| -29 | 100 | | 10 | |

| INSULATION & PAINTING | | |
|---|---|---|
| INS. TYPE | INS. THK. | INS. SURF. [m²] |
| N | | |
| PAINT SYS. | BASE RAL | PAINT. SURF. [m²] |
| 6A | RAL 9002 | 2.39 |
| HEAT TRACING | | |
| - | | |
| LINE DATA | | |
| STRESS SYS. | PED CAT. | PWHT |
| - | I | No |

| Revision Number | Date | Description | Prepared by | Checked by | Approved by |
|---|---|---|---|---|---|
| 02 | 29/09/25 | AS-BUILT (ASB) | SPS | CBO | CGI |
| 01 | 12/07/24 | ACCEPTED FOR CONSTRUCTION | MMA | CBO | DLO |
| 00 | 07/06/24 | ISSUE FOR REVIEW | MMA | CBO | DLO |

ROSETTI MARINO

# CROSSWIND

DWG TYTLE:

# 1"-HY-163-01HSS-N

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK

SCALE N.A.

DRAWN SPS | CHECKED CBO | APPROVED CGI | DATE 29/09/25

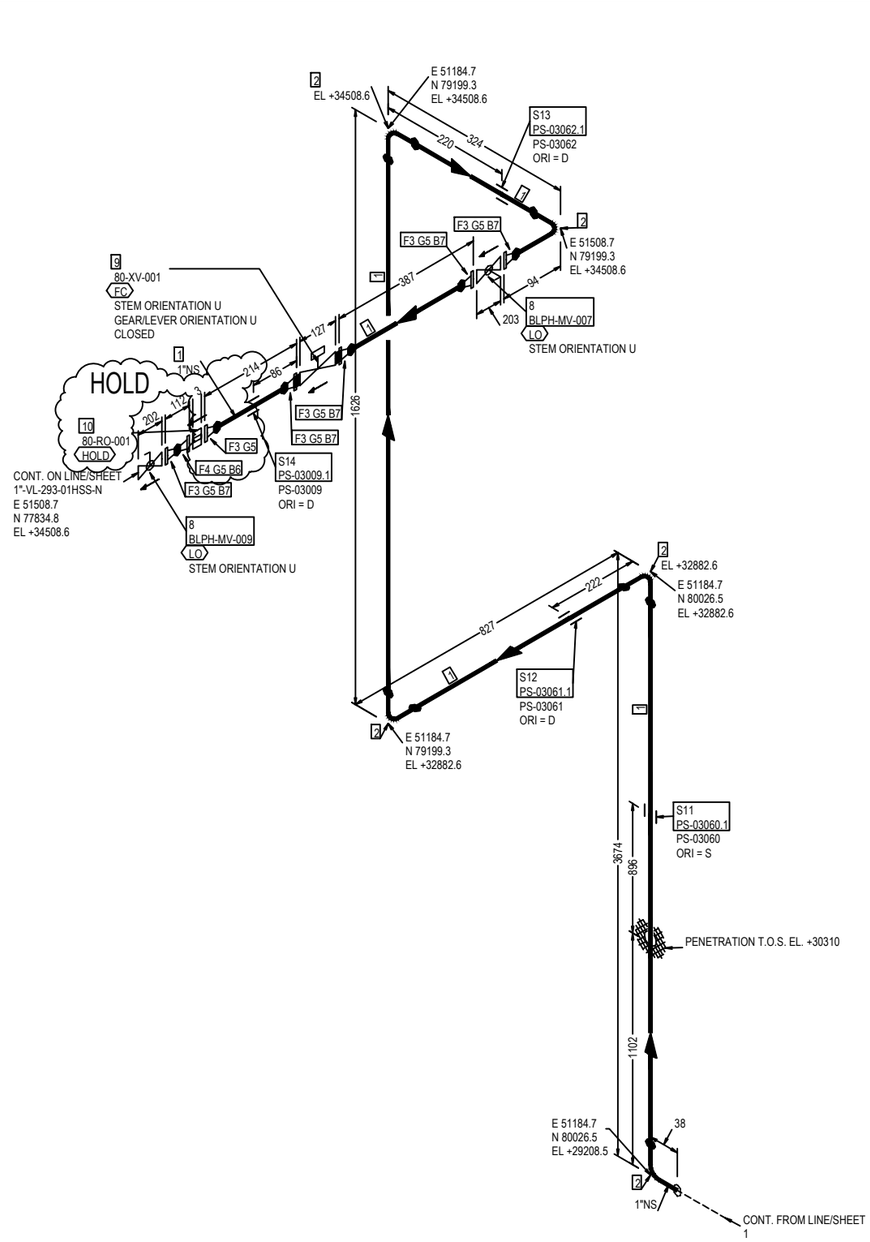
SIZE: A3

DRAWING NO. 123A90-DDL-PP-DI-71000_068

SHEET 1/2

REV. 02

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FABRICATION MATERIALS

| PT NO | COMPONENT DESCRIPTION | N.S. | ITEM CODE | Q.TY | WEIGHT |
|---|---|---|---|---|---|
| 1 | Pipe ASME B36.19M PE 3,38 SML ASTM A312 Gr.TP316/316L | 1 | PIPESS00480100 | 6524MM | 16.31 |
| 2 | 90 Deg Elbow Long Radius ASME B16.9 BW 3,38 WRS ASTM A403 Gr.WP316/316L | 1 | E90RSS00670100 | 5 | 0.70 |
| 3 | Flange WN ASME B16.5 150LB RF 3,38 FRG ASTM A182 Gr.F316/316L | 1 | FLW0SS00930100 | 6 | 8.52 |
| 4 | Flange WN For Jackscrews ASME B16.5 150LB RF 3,38 FRG ASTM A182 Gr.F316/316L | 1 | FLWDSS00760100 | 1 | 1.42 |
| | | | TOTAL FABRICATION WEIGHT | | 26.95 |

ERECTION MATERIALS

| PT NO | COMPONENT DESCRIPTION | N.S. | ITEM CODE | Q.TY | WEIGHT |
|---|---|---|---|---|---|
| 5 | Gasket Spiral Wound Thk. 3.2 mm ASME B16.20 150LB RF GSK AISI 316 + GRAPHITE C/W INNER RING | 1 | GSW0GK11100100 | 7 | 0.42 |
| 6 | 75 Stud Bolt + 2 Heavy Nuts ASME B1.1 ASTM A193 Gr.B7 - A194 Gr.2H Hot dip galvanized | 1/2 | SB20BO00940200 | 4 | 0.52 |
| 7 | 65 Stud Bolt + 2 Heavy Nuts ASME B1.1 ASTM A193 Gr.B7 - A194 Gr.2H Hot dip galvanized | 1/2 | SB20BO01080200 | 20 | 2.40 |
| 8 | Block & Bleed Valve API 6D FLG 150LB RF BS01C01RFHS | 1 | VLBLNN01320100 | 2 | 20.60 |
| | INSTRUMENTS | | | | |
| 9 | ON/OFF Ball Actuator Valve - 150#RF Flanged 80-XV-001 | 1 | | 1 | 40.00 |
| 10 | Restriction Orifice 150#RF 80-RO-001 | 1 | | 1 | 1.00 |
| | SUPPORTS | | | | |
| 11 | /PS-03060.1 | 1 | | 1 | 0.19 |
| 12 | /PS-03061.1 | 1 | | 1 | 0.19 |
| 13 | /PS-03062.1 | 1 | | 1 | 0.19 |
| 14 | /PS-03009.1 | 1 | | 1 | 0.19 |
| | | | TOTAL ERECTION WEIGHT | | 65.70 |
| | | | TOTAL WEIGHT | | 92.63 |

HOLD

| REFERENCE DOCUMENTS | |
|---|---|
| 123A90-DDL-PP-RE-70001 | STRESS ANALYSIS REPORT |
| 123A90-DDL-PR-PID-80012 | P&ID |
| 123A90-DDL-MAT-SP-60003 | INSULATION SPECIFICATION |
| 123A90-DDL-MAT-SP-60006 | COATING & PAINTING SPEC. |
| 123A90-DDL-PP-00-72000 | PIPING SUPPORT BOOK |
| 123A90-DDL-PP-SP-70029 | PIPING MATERIAL CLASS |

SYMBOLS LEGEND:
BUTT WELD · THREADED · HEAT TRACING · SOCKET · PIPE SUPPORT · INSULATED

| NDT EXAMINATION | | | |
|---|---|---|---|
| NDT TYPE | % | NDT TYPE | % |
| RT | 100 | VT | 100 |
| INSPECTION CATEGORY | 1 | MT/PT | 100Ratio |

| TESTING | |
|---|---|
| TEST FLUID | TEST PRESS. (barg) |
| Water | 15 |

| PROCESS LINE DATA | | | |
|---|---|---|---|
| DESIGN TEMP. (°C) | | DESIGN PRESS. (barg) | |
| -29 | 100 | | 10 |

| INSULATION & PAINTING | | |
|---|---|---|
| INS. TYPE | INS. THK. | INS. SURF. (m²) |
| N | | |
| PAINT SYS. | BASE RAL | PAINT. SURF. (m²) |
| 6A | RAL 9002 | SEE Sh1 |

| HEAT TRACING |
|---|
| - |

| LINE DATA | | |
|---|---|---|
| STRESS SYS. | PED CAT. | PWHT |
| - | I | No |

| Revision Number | Date | Description | Prepared by | Checked by | Approved by |
|---|---|---|---|---|---|
| 02 | 29/09/25 | AS-BUILT (ASB) | SPS | CBO | CGI |
| 01 | 12/07/24 | ACCEPTED FOR CONSTRUCTION | MMA | CBO | DLO |
| 00 | 07/06/24 | ISSUE FOR REVIEW | MMA | CBO | DLO |

ROSETTI MARINO

# CROSSWIND

DWG TYTLE:

## 1"-HY-163-01HSS-N

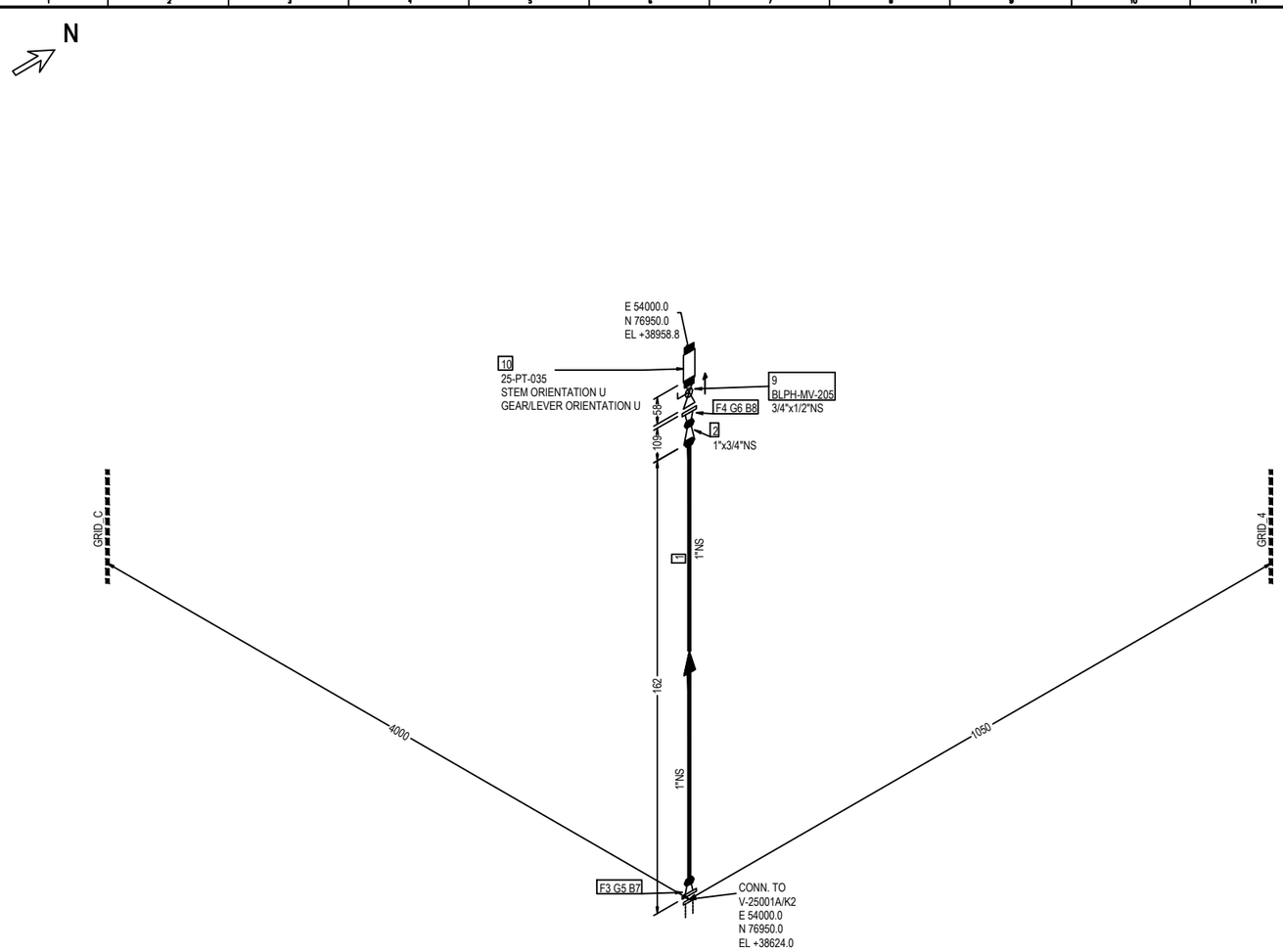
CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK

SCALE N.A.

DRAWN SPS | CHECKED CBO | APPROVED CGI | DATE 29/09/25

SIZE: A3 | DRAWING NO. 123A90-DDL-PP-DI-71000_068 | SHEET 2/2 | REV. 02

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FABRICATION MATERIALS

| PT NO | COMPONENT DESCRIPTION | N.S. | ITEM CODE | Q.TY | WEIGHT |
|---|---|---|---|---|---|
| 1 | Pipe ASME B36.19M PE 3,38 SML ASTM A312 Gr.TP316/316L | 1 | PIPESS00480100 | 100MM | 0.25 |
| 2 | Reducer Concentric ASME B16.9 BW 3,38x2,87 WRS ASTM A403 Gr.WP316/316L | 1 x 3/4 | REC0SS0120013Q | 1 | 0.14 |
| 3 | Flange WN ASME B16.5 300LB RF 3,38 FRG ASTM A182 Gr.F316/316L | 1 | FLW0SS03270100 | 1 | 1.83 |
| 4 | Flange WN ASME B16.5 300LB RF 2,87 FRG ASTM A182 Gr.F316/316L | 3/4 | FLW0SS01033Q00 | 1 | 1.42 |
| | | | TOTAL FABRICATION WEIGHT | | 3.64 |

ERECTION MATERIALS

| PT NO | COMPONENT DESCRIPTION | N.S. | ITEM CODE | Q.TY | WEIGHT |
|---|---|---|---|---|---|
| 5 | Insulation Kit Ends as per ASME B16.5 300LB RF | 1 | SPIKNN01420100 | 1 | 0.07 |
| 6 | Gasket Spiral Wound Thk. 3.2 mm ASME B16.20 300LB RF GSK AISI 316 + GRAPHITE c/w INNER RING | 3/4 | GSW0GK11203Q00 | 1 | 0.07 |
| 7 | 85 Stud Bolt + 2 Heavy Nuts ASME B1.1 ASTM A193 Gr.B7 - A194 Gr.2H Hot dip galvanized | 5/8 | SB20BO00660300 | 4 | 0.96 |
| 8 | 95 Stud Bolt + 2 Heavy Nuts ASME B1.1 ASTM A193 Gr.B7 - A194 Gr.2H Hot dip galvanized | 5/8 | SB20BO00670300 | 4 | 1.00 |
| 9 | Monoflange Double Block & Bleed Valve API 6D FLG x THRD-F NPT 300LB RF MD03C02YH | 3/4 x 1/2 | VLBMNN00013Q0H | 1 | 5.80 |
| | INSTRUMENTS | | | | |
| 10 | Pressure Transmitter - Online 25-PT-035 | 1/2 | | 1 | --- |
| | | | TOTAL ERECTION WEIGHT | | 7.90 |
| | | | TOTAL WEIGHT | | 11.54 |

| REFERENCE DOCUMENTS | |
|---|---|
| 123A90-DDL-PP-RE-70001 | STRESS ANALYSIS REPORT |
| 123A90-DDL-PR-PID-80015 | P&ID |
| 123A90-DDL-MAT-SP-60003 | INSULATION SPECIFICATION |
| 123A90-DDL-MAT-SP-60006 | COATING & PAINTING SPEC. |
| 123A90-DDL-PP-00-72000 | PIPING SUPPORT BOOK |
| 123A90-DDL-PP-SP-70029 | PIPING MATERIAL CLASS |

SYMBOLS LEGEND:
BUTT WELD · THREADED · HEAT TRACING · SOCKET · PIPE SUPPORT · INSULATED

| NDT EXAMINATION | | | |
|---|---|---|---|
| NDT TYPE | % | NDT TYPE | % |
| RT | 100 | VT | 100 |
| INSPECTION CATEGORY | 1 | MT/PT | 100 |
| TESTING | | | |
| TEST FLUID | | TEST PRESS.(barg) | |
| Water | | 60 | |
| PROCESS LINE DATA | | | |
| DESIGN TEMP. (°C) | | DESIGN PRESS.(barg) | |
| -29 | 80 | | 40 |

| INSULATION & PAINTING | | |
|---|---|---|
| INS. TYPE | INS. THK. | INS. SURF. (m²) |
| N | | |
| PAINT SYS. | BASE RAL | PAINT. SURF. (m²) |
| 6A | RAL 9002 | 0.03 |
| HEAT TRACING | | |
| - | | |
| LINE DATA | | |
| STRESS SYS. | PED CAT. | PWHT |
| - | II | No |

| Revision Number | Date | Description | Prepared by | Checked by | Approved by |
|---|---|---|---|---|---|
| 02 | 29/09/25 | AS-BUILT (ASB) | SPS | CBO | CGI |
| 01 | 26/07/24 | ACCEPTED FOR CONSTRUCTION | MMA | CBO | DLO |
| 00 | 07/06/24 | ISSUE FOR REVIEW | MMA | CBO | DLO |

ROSETTI MARINO

CROSSWIND

DWG TYTLE:

# 1"-HY-164-03HSS-N

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK

SCALE N.A.

DRAWN SPS | CHECKED CBO | APPROVED CGI | DATE 29/09/25

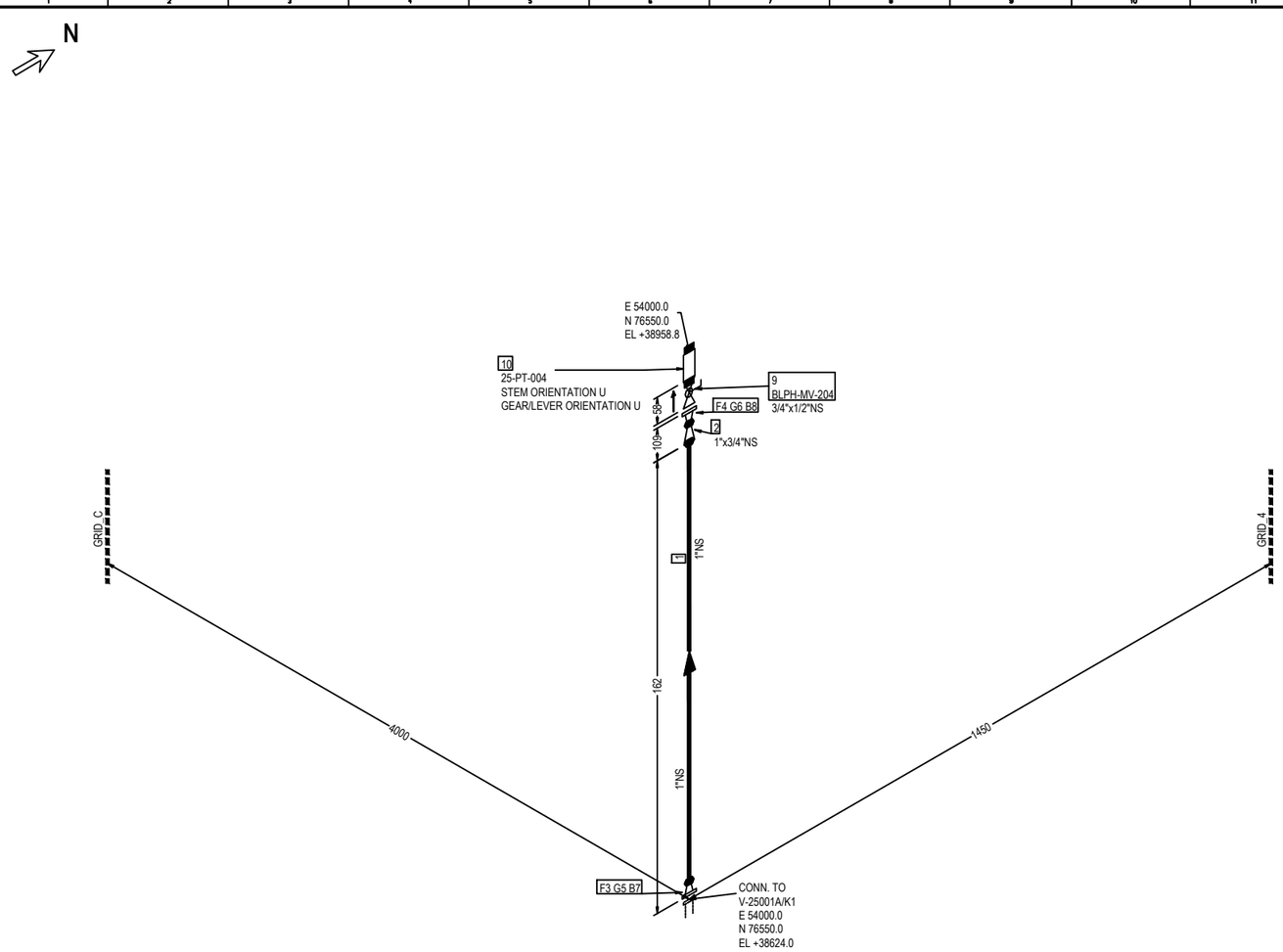
SIZE: A3

DRAWING NO. 123A90-DDL-PP-DI-71000-069

SHEET 1/2

REV. 02

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FABRICATION MATERIALS

| PT NO | COMPONENT DESCRIPTION | N.S. | ITEM CODE | Q.TY | WEIGHT |
|---|---|---|---|---|---|
| 1 | Pipe ASME B36.19M PE 3,38 SML ASTM A312 Gr.TP316/316L | 1 | PIPESS00480100 | 100MM | 0.25 |
| 2 | Reducer Concentric ASME B16.9 BW 3,38x2,87 WRS ASTM A403 Gr.WP316/316L | 1 x 3/4 | REC0SS0120013Q | 1 | 0.14 |
| 3 | Flange WN ASME B16.5 300LB RF 3,38 FRG ASTM A182 Gr.F316/316L | 1 | FLW0SS03270100 | 1 | 1.83 |
| 4 | Flange WN ASME B16.5 300LB RF 2,87 FRG ASTM A182 Gr.F316/316L | 3/4 | FLW0SS01033Q00 | 1 | 1.42 |
| | | | | TOTAL FABRICATION WEIGHT | 3.64 |

ERECTION MATERIALS

| PT NO | COMPONENT DESCRIPTION | N.S. | ITEM CODE | Q.TY | WEIGHT |
|---|---|---|---|---|---|
| 5 | Insulation Kit Ends as per ASME B16.5 300LB RF | 1 | SPIKNN01420100 | 1 | 0.07 |
| 6 | Gasket Spiral Wound Thk. 3.2 mm ASME B16.20 300LB RF GSK AISI 316 + GRAPHITE c/w INNER RING | 3/4 | GSW0GK11203Q00 | 1 | 0.07 |
| 7 | 85 Stud Bolt + 2 Heavy Nuts ASME B1.1 ASTM A193 Gr.B7 - A194 Gr.2H Hot dip galvanized | 5/8 | SB20BO00660300 | 4 | 0.96 |
| 8 | 95 Stud Bolt + 2 Heavy Nuts ASME B1.1 ASTM A193 Gr.B7 - A194 Gr.2H Hot dip galvanized | 5/8 | SB20BO00670300 | 4 | 1.00 |
| 9 | Monoflange Double Block & Bleed Valve API 6D FLG x THRD-F NPT 300LB RF MD03C02YH | 3/4 x 1/2 | VLBMNN00013Q0H | 1 | 5.80 |
| | INSTRUMENTS | | | | |
| 10 | Pressure Transmitter - Online 25-PT-004 | 1/2 | | 1 | --- |
| | | | | TOTAL ERECTION WEIGHT | 7.90 |
| | | | | TOTAL WEIGHT | 11.54 |

| REFERENCE DOCUMENTS | |
|---|---|
| 123A90-DDL-PP-RE-70001 | STRESS ANALYSIS REPORT |
| 123A90-DDL-PR-PID-80015 | P&ID |
| 123A90-DDL-MAT-SP-60003 | INSULATION SPECIFICATION |
| 123A90-DDL-MAT-SP-60006 | COATING & PAINTING SPEC. |
| 123A90-DDL-PP-00-72000 | PIPING SUPPORT BOOK |
| 123A90-DDL-PP-SP-70029 | PIPING MATERIAL CLASS |

SYMBOLS LEGEND:
BUTT WELD · THREADED · HEAT TRACING · SOCKET · PIPE SUPPORT · INSULATED

| NDT EXAMINATION | | | |
|---|---|---|---|
| NDT TYPE | % | NDT TYPE | % |
| RT | 100 | VT | 100 |
| INSPECTION CATEGORY | 1 | MT/PT | 100 |
| TESTING | | | |
| TEST FLUID | | TEST PRESS. (barg) | |
| Water | | 60 | |
| PROCESS LINE DATA | | | |
| DESIGN TEMP. (°C) | | DESIGN PRESS. (barg) | |
| -29 | 80 | | 40 |

| INSULATION & PAINTING | | |
|---|---|---|
| INS. TYPE | INS. THK. | INS. SURF. (m²) |
| N | | |
| PAINT SYS. | BASE RAL | PAINT. SURF. (m²) |
| 6A | RAL 9002 | 0.03 |
| HEAT TRACING | | |
| - | | |
| LINE DATA | | |
| STRESS SYS. | PED CAT. | PWHT |
| - | II | No |

| Revision Number | Date | Description | Prepared by | Checked by | Approved by |
|---|---|---|---|---|---|
| 02 | 29/09/25 | AS-BUILT (ASB) | SPS | CBO | CGI |
| 01 | 26/07/24 | ACCEPTED FOR CONSTRUCTION | MMA | CBO | DLO |
| 00 | 07/06/24 | ISSUE FOR REVIEW | MMA | CBO | DLO |

ROSETTI MARINO

# CROSSWIND

DWG TYTLE:

## 1"-HY-164-03HSS-N

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK

SCALE N.A.

DRAWN SPS | CHECKED CBO | APPROVED CGI | DATE 29/09/25

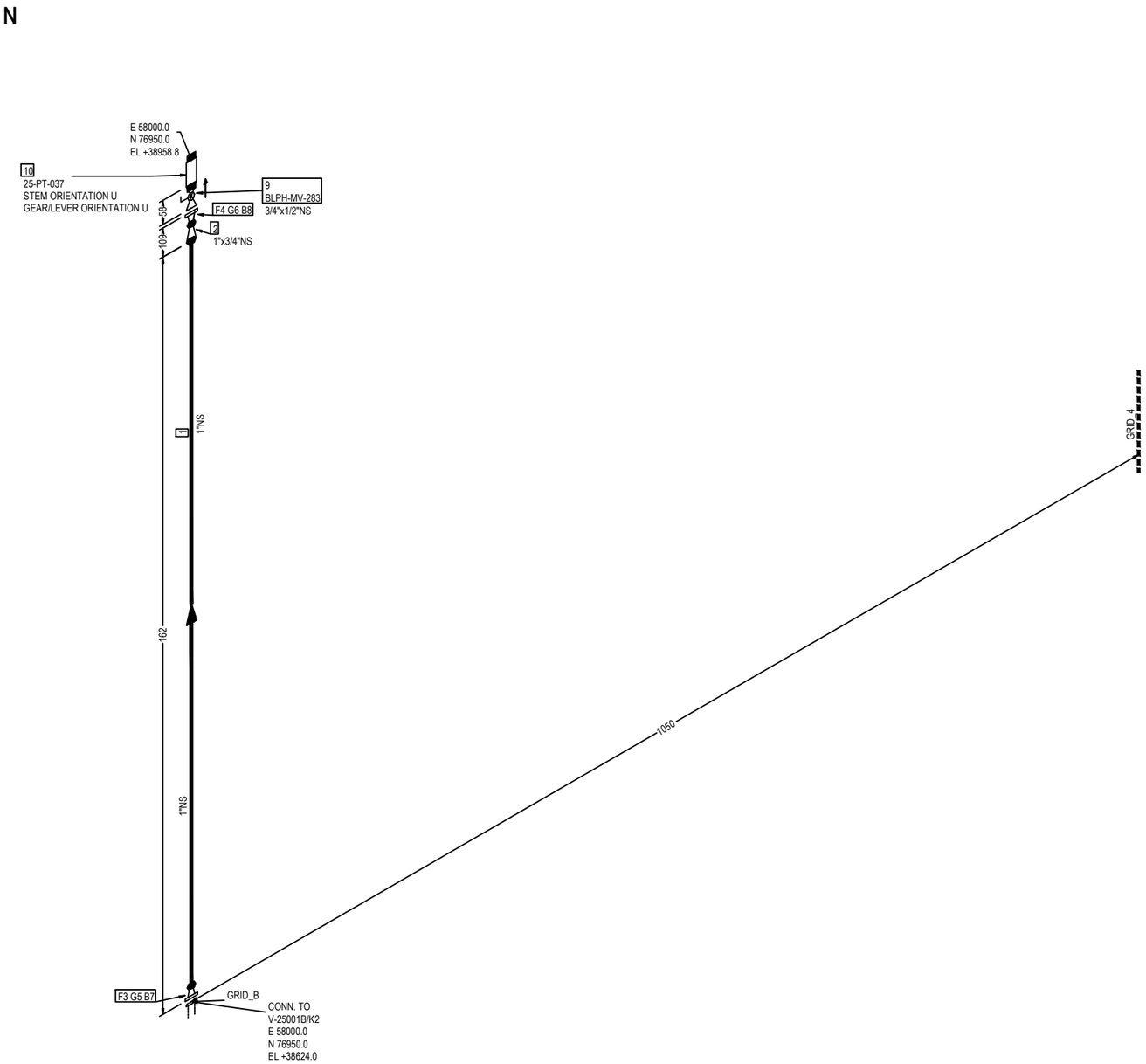
SIZE: A3

DRAWING NO. 123A90-DDL-PP-DI-71000-069

SHEET 2/2

REV. 02

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FABRICATION MATERIALS

| PT NO | COMPONENT DESCRIPTION | N.S. | ITEM CODE | Q.TY | WEIGHT |
|---|---|---|---|---|---|
| 1 | Pipe ASME B36.19M PE 3,38 SML ASTM A312 Gr.TP316/316L | 1 | PIPESS00480100 | 100MM | 0.25 |
| 2 | Reducer Concentric ASME B16.9 BW 3,38x2,87 WRS ASTM A403 Gr.WP316/316L | 1 x 3/4 | REC0SS0120013Q | 1 | 0.14 |
| 3 | Flange WN ASME B16.5 300LB RF 3,38 FRG ASTM A182 Gr.F316/316L | 1 | FLW0SS03270100 | 1 | 1.83 |
| 4 | Flange WN ASME B16.5 300LB RF 2,87 FRG ASTM A182 Gr.F316/316L | 3/4 | FLW0SS01033Q00 | 1 | 1.42 |
| | | | TOTAL FABRICATION WEIGHT | | 3.64 |

ERECTION MATERIALS

| PT NO | COMPONENT DESCRIPTION | N.S. | ITEM CODE | Q.TY | WEIGHT |
|---|---|---|---|---|---|
| 5 | Insulation Kit Ends as per ASME B16.5 300LB RF | 1 | SPIKNN01420100 | 1 | 0.07 |
| 6 | Gasket Spiral Wound Thk. 3.2 mm ASME B16.20 300LB RF GSK AISI 316 + GRAPHITE c/w INNER RING | 3/4 | GSW0GK11203Q00 | 1 | 0.07 |
| 7 | 85 Stud Bolt + 2 Heavy Nuts ASME B1.1 ASTM A193 Gr.B7 - A194 Gr.2H Hot dip galvanized | 5/8 | SB20BO00660300 | 4 | 0.96 |
| 8 | 95 Stud Bolt + 2 Heavy Nuts ASME B1.1 ASTM A193 Gr.B7 - A194 Gr.2H Hot dip galvanized | 5/8 | SB20BO00670300 | 4 | 1.00 |
| 9 | Monoflange Double Block & Bleed Valve API 6D FLG x THRD-F NPT 300LB RF MD03C02YH | 3/4 x 1/2 | VLBMNN00013Q0H | 1 | 5.80 |
| | INSTRUMENTS | | | | |
| 10 | Pressure Transmitter - Online 25-PT-037 | 1/2 | | 1 | --- |
| | | | TOTAL ERECTION WEIGHT | | 7.90 |
| | | | TOTAL WEIGHT | | 11.54 |

| REFERENCE DOCUMENTS | |
|---|---|
| 123A90-DDL-PP-RE-70001 | STRESS ANALYSIS REPORT |
| 123A90-DDL-PR-PID-80016 | P&ID |
| 123A90-DDL-MAT-SP-60003 | INSULATION SPECIFICATION |
| 123A90-DDL-MAT-SP-60006 | COATING & PAINTING SPEC. |
| 123A90-DDL-PP-00-72000 | PIPING SUPPORT BOOK |
| 123A90-DDL-PP-SP-70029 | PIPING MATERIAL CLASS |

SYMBOLS LEGEND:
BUTT WELD · THREADED · HEAT TRACING · SOCKET · PIPE SUPPORT · INSULATED

| NDT EXAMINATION | | | |
|---|---|---|---|
| NDT TYPE | % | NDT TYPE | % |
| RT | 100 | VT | 100 |
| INSPECTION CATEGORY | 1 | MT/PT | 100 |
| TESTING | | | |
| TEST FLUID | | TEST PRESS. (barg) | |
| Water | | 60 | |
| PROCESS LINE DATA | | | |
| DESIGN TEMP. (°C) | | DESIGN PRESS. (barg) | |
| -29 | 80 | | 40 |

| INSULATION & PAINTING | | |
|---|---|---|
| INS. TYPE | INS. THK. | INS. SURF. (m²) |
| N | | |
| PAINT SYS. | BASE RAL | PAINT. SURF. (m²) |
| 6A | RAL 9002 | 0.03 |
| HEAT TRACING | | |
| - | | |
| LINE DATA | | |
| STRESS SYS. | PED CAT. | PWHT |
| - | II | No |

| Revision Number | Date | Description | Prepared by | Checked by | Approved by |
|---|---|---|---|---|---|
| 02 | 29/09/25 | AS-BUILT (ASB) | SPS | CBO | CGI |
| 01 | 26/07/24 | ACCEPTED FOR CONSTRUCTION | MMA | CBO | DLO |
| 00 | 07/06/24 | ISSUE FOR REVIEW | MMA | CBO | DLO |

ROSETTI MARINO

# CROSSWIND

DWG TYTLE:

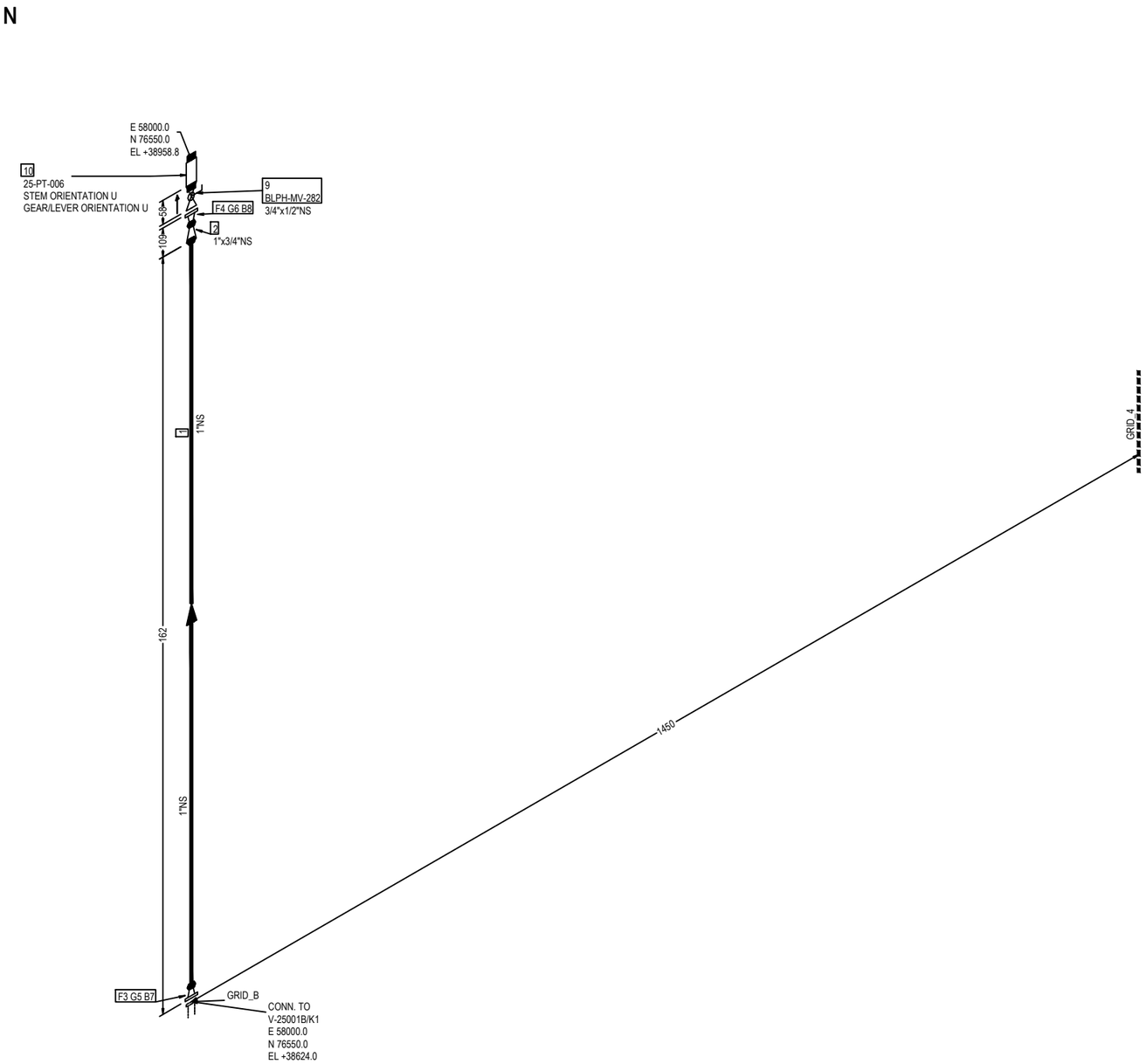
## 1"-HY-165-03HSS-N

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK | SCALE N.A.

DRAWN SPS | CHECKED CBO | APPROVED CGI | DATE 29/09/25

SIZE: A3 | DRAWING NO. 123A90-DDL-PP-DI-71000-070 | SHEET 1/2 | REV. 02

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FABRICATION MATERIALS

| PT NO | COMPONENT DESCRIPTION | N.S. | ITEM CODE | Q.TY | WEIGHT |
|---|---|---|---|---|---|
| 1 | Pipe ASME B36.19M PE 3,38 SML ASTM A312 Gr.TP316/316L | 1 | PIPESS00480100 | 100MM | 0.25 |
| 2 | Reducer Concentric ASME B16.9 BW 3,38x2,87 WRS ASTM A403 Gr.WP316/316L | 1 x 3/4 | REC0SS0120013Q | 1 | 0.14 |
| 3 | Flange WN ASME B16.5 300LB RF 3,38 FRG ASTM A182 Gr.F316/316L | 1 | FLW0SS03270100 | 1 | 1.83 |
| 4 | Flange WN ASME B16.5 300LB RF 2,87 FRG ASTM A182 Gr.F316/316L | 3/4 | FLW0SS01033Q00 | 1 | 1.42 |
| | | | TOTAL FABRICATION WEIGHT | | 3.64 |

ERECTION MATERIALS

| PT NO | COMPONENT DESCRIPTION | N.S. | ITEM CODE | Q.TY | WEIGHT |
|---|---|---|---|---|---|
| 5 | Insulation Kit Ends as per ASME B16.5 300LB RF | 1 | SPIKNN01420100 | 1 | 0.07 |
| 6 | Gasket Spiral Wound Thk. 3.2 mm ASME B16.20 300LB RF GSK AISI 316 + GRAPHITE c/w INNER RING | 3/4 | GSW0GK11203Q00 | 1 | 0.07 |
| 7 | 85 Stud Bolt + 2 Heavy Nuts ASME B1.1 ASTM A193 Gr.B7 - A194 Gr.2H Hot dip galvanized | 5/8 | SB20BO00660300 | 4 | 0.96 |
| 8 | 95 Stud Bolt + 2 Heavy Nuts ASME B1.1 ASTM A193 Gr.B7 - A194 Gr.2H Hot dip galvanized | 5/8 | SB20BO00670300 | 4 | 1.00 |
| 9 | Monoflange Double Block & Bleed Valve API 6D FLG x THRD-F NPT 300LB RF MD03C02YH | 3/4 x 1/2 | VLBMNN00013Q0H | 1 | 5.80 |
| | INSTRUMENTS | | | | |
| 10 | Pressure Transmitter - Online 25-PT-006 | 1/2 | | 1 | --- |
| | | | TOTAL ERECTION WEIGHT | | 7.90 |
| | | | TOTAL WEIGHT | | 11.54 |

| REFERENCE DOCUMENTS | |
|---|---|
| 123A90-DDL-PP-RE-70001 | STRESS ANALYSIS REPORT |
| 123A90-DDL-PR-PID-80016 | P&ID |
| 123A90-DDL-MAT-SP-60003 | INSULATION SPECIFICATION |
| 123A90-DDL-MAT-SP-60006 | COATING & PAINTING SPEC. |
| 123A90-DDL-PP-00-72000 | PIPING SUPPORT BOOK |
| 123A90-DDL-PP-SP-70029 | PIPING MATERIAL CLASS |

SYMBOLS LEGEND:
BUTT WELD · THREADED · HEAT TRACING · SOCKET · PIPE SUPPORT · INSULATED

| NDT EXAMINATION | | | |
|---|---|---|---|
| NDT TYPE | % | NDT TYPE | % |
| RT | 100 | VT | 100 |
| INSPECTION CATEGORY | 1 | MT/PT | 100 |
| TESTING | | | |
| TEST FLUID | | TEST PRESS. (barg) | |
| Water | | 60 | |
| PROCESS LINE DATA | | | |
| DESIGN TEMP. (°C) | | DESIGN PRESS. (barg) | |
| -29 | 80 | | 40 |

| INSULATION & PAINTING | | |
|---|---|---|
| INS. TYPE | INS. THK. | INS. SURF. (m²) |
| N | | |
| PAINT SYS. | BASE RAL | PAINT. SURF. (m²) |
| 6A | RAL 9002 | 0.03 |
| HEAT TRACING | | |
| - | | |
| LINE DATA | | |
| STRESS SYS. | PED CAT. | PWHT |
| - | II | No |

| Revision Number | Date | Description | Prepared by | Checked by | Approved by |
|---|---|---|---|---|---|
| 02 | 29/09/25 | AS-BUILT (ASB) | SPS | CBO | CGI |
| 01 | 26/07/24 | ACCEPTED FOR CONSTRUCTION | MMA | CBO | DLO |
| 00 | 07/06/24 | ISSUE FOR REVIEW | MMA | CBO | DLO |

ROSETTI MARINO

# CROSSWIND

DWG TYTLE:

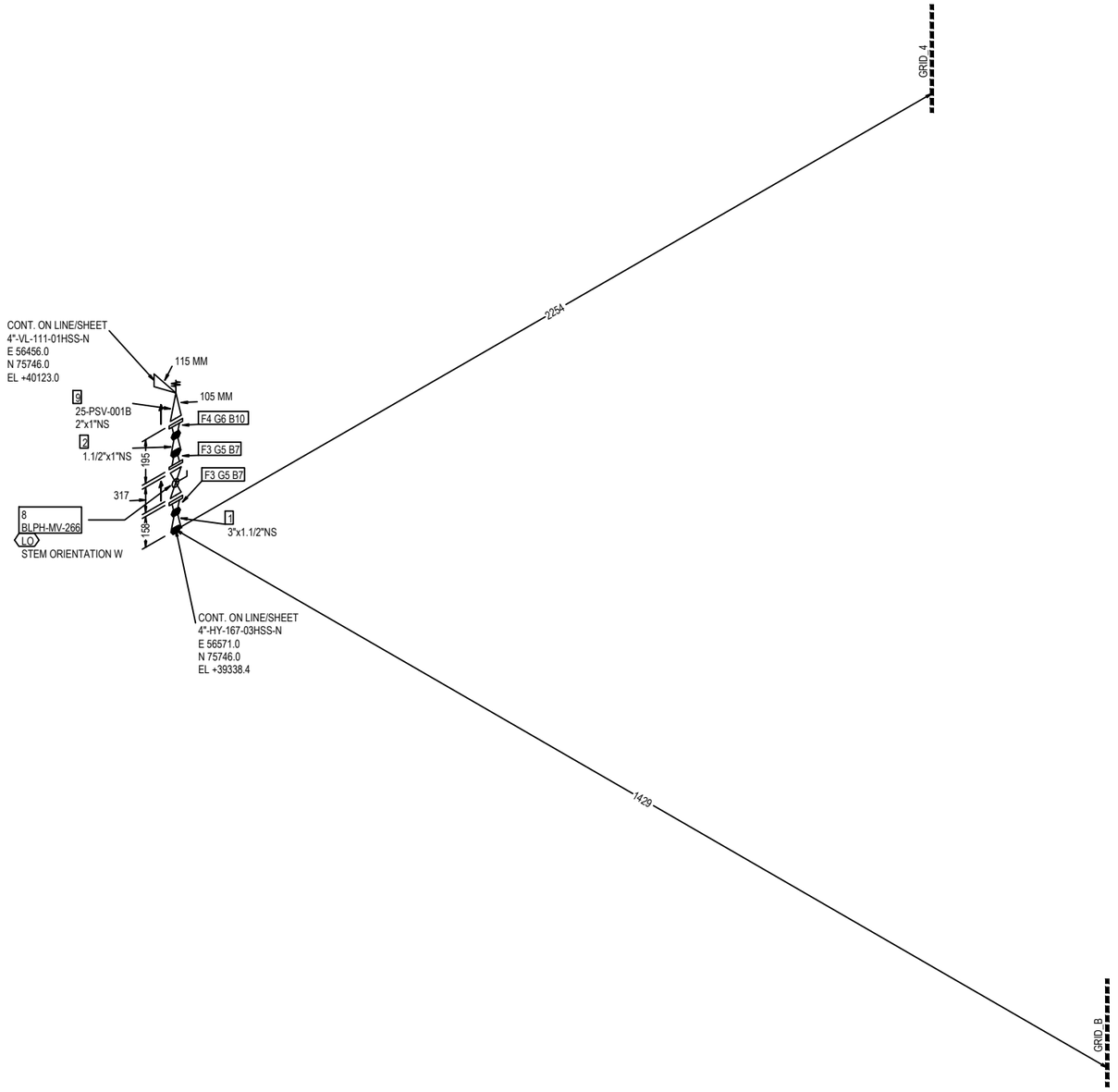
## 1"-HY-165-03HSS-N

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK | SCALE N.A.

DRAWN SPS | CHECKED CBO | APPROVED CGI | DATE 29/09/25

SIZE: A3 | DRAWING NO. 123A90-DDL-PP-DI-71000-070 | SHEET 2/2 | REV. 02

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FABRICATION MATERIALS

| PT NO | COMPONENT DESCRIPTION | N.S. | ITEM CODE | Q.TY | WEIGHT |
|---|---|---|---|---|---|
| 1 | Reducer Concentric ASME B16.9 BW 3,05x3,68 WRS ASTM A403 Gr.WP316/316L | 3 x 1.1/2 | REC0SS0128031H | 1 | 0.48 |
| 2 | Reducer Concentric ASME B16.9 BW 3,68x3,38 WRS ASTM A403 Gr.WP316/316L | 1.1/2 x 1 | REC0SS03191H01 | 1 | 0.26 |
| 3 | Flange WN ASME B16.5 300LB RF 3,68 FRG ASTM A182 Gr.F316/316L | 1.1/2 | FLW0SS03481H00 | 2 | 6.50 |
| 4 | Flange WN ASME B16.5 300LB RF 3,38 FRG ASTM A182 Gr.F316/316L | 1 | FLW0SS03270100 | 1 | 1.83 |
| | | | TOTAL FABRICATION WEIGHT | | 9.07 |

ERECTION MATERIALS

| PT NO | COMPONENT DESCRIPTION | N.S. | ITEM CODE | Q.TY | WEIGHT |
|---|---|---|---|---|---|
| 5 | Gasket Spiral Wound Thk. 3.2 mm ASME B16.20 300LB RF GSK AISI 316 + GRAPHITE c/w INNER RING | 1.1/2 | GSW0GK11221H00 | 2 | 0.22 |
| 6 | Gasket Spiral Wound Thk. 3.2 mm ASME B16.20 300LB RF GSK AISI 316 + GRAPHITE c/w INNER RING | 1 | GSW0GK11210100 | 1 | 0.07 |
| 7 | 95 Stud Bolt + 2 Heavy Nuts ASME B1.1 ASTM A193 Gr.B7 - A194 Gr.2H Hot dip galvanized | 3/4 | SB20BO23540400 | 8 | 3.12 |
| 10 | 100 Stud Bolt + 2 Heavy Nuts ASME B1.1 ASTM A193 Gr.B7 - A194 Gr.2H Hot dip galvanized | 5/8 | SB20BO00680300 | 4 | 1.04 |
| 8 | Double Block & Bleed Valve API 6D FLG 300LB RF DA03C01RFH | 1.1/2 | VLBBNN07201H00 | 1 | 40.00 |
| | INSTRUMENTS | | | | |
| 9 | Pressure Safety Valve FLG.300/150#RF 25-PSV-001B | 2 x 1 | | 1 | 15.00 |
| | | | TOTAL ERECTION WEIGHT | | 59.45 |
| | | | TOTAL WEIGHT | | 68.52 |

| REFERENCE DOCUMENTS | |
|---|---|
| 123A90-DDL-PP-RE-70001 | STRESS ANALYSIS REPORT |
| 123A90-DDL-PR-PID-80016 | P&ID |
| 123A90-DDL-MAT-SP-60003 | INSULATION SPECIFICATION |
| 123A90-DDL-MAT-SP-60006 | COATING & PAINTING SPEC. |
| 123A90-DDL-PP-00-72000 | PIPING SUPPORT BOOK |
| 123A90-DDL-PP-SP-70029 | PIPING MATERIAL CLASS |

SYMBOLS LEGEND:
BUTT WELD · THREADED · HEAT TRACING · SOCKET · PIPE SUPPORT · INSULATED

| NDT EXAMINATION | | | |
|---|---|---|---|
| NDT TYPE | % | NDT TYPE | % |
| RT | 100 | VT | 100 |
| INSPECTION CATEGORY | 1 | MT/PT | 100Ratio |
| TESTING | | | |
| TEST FLUID | | TEST PRESS. (barg) | |
| Water | | 60 | |
| PROCESS LINE DATA | | | |
| DESIGN TEMP. (°C) | | DESIGN PRESS. (barg) | |
| -29 | 80 | | 40 |

| INSULATION & PAINTING | | |
|---|---|---|
| INS. TYPE | INS. THK. | INS. SURF. (m²) |
| N | | |
| PAINT SYS. | BASE RAL | PAINT. SURF. (m²) |
| 6A | RAL 9002 | 0.14 |
| HEAT TRACING | | |
| - | | |
| LINE DATA | | |
| STRESS SYS. | PED CAT. | PWHT |
| 01 | II | No |

| Revision Number | Date | Description | Prepared by | Checked by | Approved by |
|---|---|---|---|---|---|
| 02 | 29/09/25 | AS-BUILT (ASB) | SPS | CBO | CGI |
| 01 | 12/07/24 | ACCEPTED FOR CONSTRUCTION | MMA | CBO | DLO |
| 00 | 07/06/24 | ISSUE FOR REVIEW | MMA | CBO | DLO |

ROSETTI MARINO

# CROSSWIND

DWG TYTLE:

## 1-1/2"-HY-166-03HSS-N

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK

SCALE N.A.

DRAWN SPS | CHECKED CBO | APPROVED CGI | DATE 29/09/25

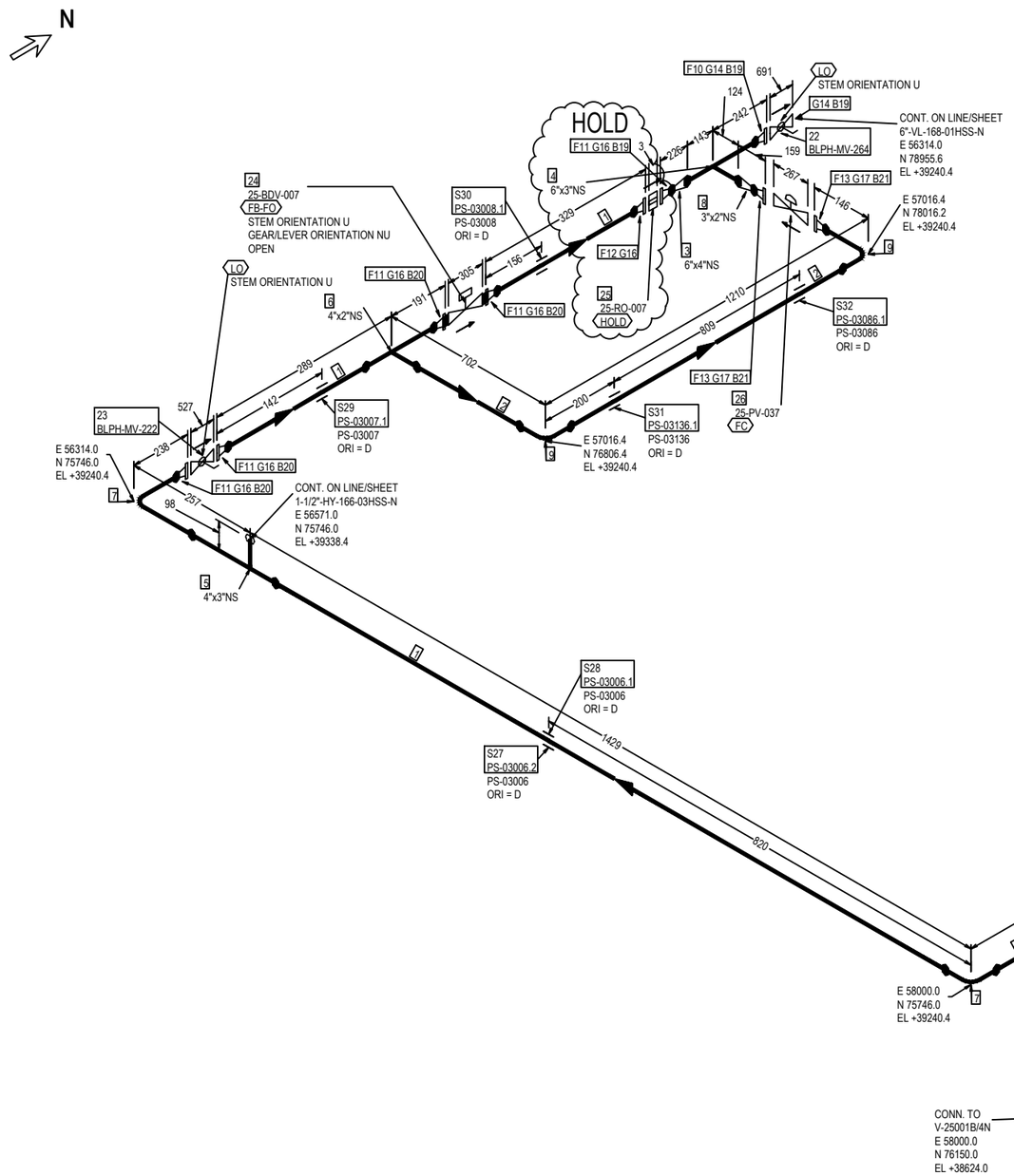
SIZE: A3

DRAWING NO. 123A90-DDL-PP-DI-71000_071

SHEET 1/1

REV. 02

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## FABRICATION MATERIALS

| PT NO | COMPONENT DESCRIPTION | N.S. | ITEM CODE | Q.TY | WEIGHT |
|---|---|---|---|---|---|
| 1 | Pipe ASME B36.19M PE 3,05 SML ASTM A312 Gr.TP316/316L | 4 | PIPESS00560400 | 1727MM | 14.68 |
| 2 | Pipe ASME B36.19M PE 2,77 SML ASTM A312 Gr.TP316/316L | 2 | PIPESS00540200 | 1595MM | 6.38 |
| 3 | Reducer Concentric ASME B16.9 BW 7,11x3,05 WRS ASTM A403 Gr.WP316/316L | 6 x 4 | REC0SS03250604 | 1 | 3.56 |
| 4 | Tee Reducing ASME B16.9 BW 7,11x3,05 WRS ASTM A403 Gr.WP316/316L | 6 x 3 | TER0SS03820603 | 1 | 16.24 |
| 5 | Tee Reducing ASME B16.9 BW 3,05x3,05 WRS ASTM A403 Gr.WP316/316L | 4 x 3 | TER0SS01680403 | 1 | 2.66 |
| 6 | Tee Reducing ASME B16.9 BW 3,05x2,77 WRS ASTM A403 Gr.WP316/316L | 4 x 2 | TER0SS03250402 | 1 | 2.57 |
| 7 | 90 Deg Elbow Long Radius ASME B16.9 BW 3,05 WRS ASTM A403 Gr.WP316/316L | 4 | E90RSS01020400 | 3 | 6.03 |
| 8 | Reducer Concentric ASME B16.9 BW 3,05x2,77 WRS ASTM A403 Gr.WP316/316L | 3 x 2 | REC0SS02770302 | 1 | 0.51 |
| 9 | 90 Deg Elbow Long Radius ASME B16.9 BW 2,77 WRS ASTM A403 Gr.WP316/316L | 2 | E90RSS00010200 | 2 | 0.94 |
| 10 | Flange WN ASME B16.5 300LB RF 7,11 FRG ASTM A182 Gr.F316/316L | 6 | FLW0SS03290600 | 1 | 19.29 |
| 11 | Flange WN ASME B16.5 300LB RF 3,05 FRG ASTM A182 Gr.F316/316L | 4 | FLW0SS03370400 | 8 | 89.36 |
| 12 | Flange WN For Jackscrews ASME B16.5 300LB RF 3,05 FRG ASTM A182 Gr.F316/316L | 4 | FLWDSS00030400 | 1 | 11.17 |
| 13 | Flange WN ASME B16.5 300LB RF 2,77 FRG ASTM A182 Gr.F316/316L | 2 | FLW0SS00180200 | 2 | 8.32 |
| | | | TOTAL FABRICATION WEIGHT | | 181.71 |

## ERECTION MATERIALS

| PT NO | COMPONENT DESCRIPTION | N.S. | ITEM CODE | Q.TY | WEIGHT |
|---|---|---|---|---|---|
| 14 | Gasket Spiral Wound Thk. 3.2 mm ASME B16.20 300LB RF GSK AISI 316 + GRAPHITE c/w INNER RING | 6 | GSW0GK11260600 | 2 | 0.90 |
| 15 | Insulation Kit Ends as per ASME B16.5 300LB RF | 4 | SPIKNN00700400 | 1 | 0.27 |
| 16 | Gasket Spiral Wound Thk. 3.2 mm ASME B16.20 300LB RF GSK AISI 316 + GRAPHITE c/w INNER RING | 4 | GSW0GK11250400 | 7 | 2.59 |
| 17 | Gasket Spiral Wound Thk. 3.2 mm ASME B16.20 300LB RF GSK AISI 316 + GRAPHITE c/w INNER RING | 2 | GSW0GK11230200 | 2 | 0.26 |
| 18 | 130 Stud Bolt + 2 Heavy Nuts ASME B1.1 ASTM A193 Gr.B7 - A194 Gr.2H Hot dip galvanized | 3/4 | SB20BO19820400 | 8 | 3.84 |
| 19 | 125 Stud Bolt + 2 Heavy Nuts ASME B1.1 ASTM A193 Gr.B7 - A194 Gr.2H Hot dip galvanized | 3/4 | SB20BO01660400 | 32 | 14.72 |
| 20 | 115 Stud Bolt + 2 Heavy Nuts ASME B1.1 ASTM A193 Gr.B7 - A194 Gr.2H Hot dip galvanized | 3/4 | SB20BO01650400 | 40 | 17.60 |
| 21 | 90 Stud Bolt + 2 Heavy Nuts ASME B1.1 ASTM A193 Gr.B7 - A194 Gr.2H Hot dip galvanized | 5/8 | SB20BO04190300 | 16 | 4.00 |
| 22 | Double Block & Bleed Valve API 6D FLG 300LB RF DA03C01RFH | 6 | VLBBNN07240600 | 1 | 350.00 |
| 23 | Double Block & Bleed Valve API 6D FLG 300LB RF DA03C01RFH | 4 | VLBBNN07230400 | 1 | 170.00 |
| | **INSTRUMENTS** | | | | |
| 24 | ON/OFF Ball Actuator Valve - 300#RF Flanged 25-BDV-007 | 4 | | 1 | 169.00 |
| 25 | Restriction Orifice 300#RF 25-RO-007 | 4 | | 1 | 1.00 |
| 26 | Control Valve - FLG 300 #RF 25-PV-037 | 2 | | 1 | 41.00 |
| | **SUPPORTS** | | | | |
| 27 | /PS-03006.2 | 4 | | 1 | 0.06 |
| 28 | /PS-03006.1 | 4 | | 1 | 0.06 |
| 29 | /PS-03007.1 | 4 | | 1 | 0.67 |
| 30 | /PS-03008.1 | 4 | | 1 | 0.67 |
| 31 | /PS-03136.1 | 2 | | 1 | 0.33 |
| 32 | /PS-03086.1 | 2 | | 1 | 0.33 |
| | | | TOTAL ERECTION WEIGHT | | 777.30 |
| | | | TOTAL WEIGHT | | 959.01 |

HOLD

| REFERENCE DOCUMENTS | | NDT EXAMINATION | | | | INSULATION & PAINTING | | | Revision Number | Date | Description | Prepared by | Checked by | Approved by |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 123A90-DDL-PP-RE-70001 | STRESS ANALYSIS REPORT | NDT TYPE | % | NDT TYPE | % | INS. TYPE | INS. THK. | INS. SURF. (m²) | | | | | | |
| 123A90-DDL-PR-PID-80016 | P&ID | RT | 100 | VT | 100 | N | | | | | | | | |
| 123A90-DDL-MAT-SP-60003 | INSULATION SPECIFICATION | INSPECTION CATEGORY | 1 | MT/PT | 100Ratio | PAINT SYS. | BASE RAL | PAINT. SURF. (m²) | | | | | | |
| 123A90-DDL-MAT-SP-60006 | COATING & PAINTING SPEC. | TESTING | | | | 6A | RAL 9002 | 2.61 | | | | | | |
| 123A90-DDL-PP-00-72000 | PIPING SUPPORT BOOK | TEST FLUID | | TEST PRESS. (barg) | | HEAT TRACING | | | | | | | | |
| 123A90-DDL-PP-SP-70029 | PIPING MATERIAL CLASS | Water | | 60 | | - | | | 02 | 29/09/25 | AS-BUILT (ASB) | SPS | CBO | CGI |
| SYMBOLS LEGEND: | | PROCESS LINE DATA | | | | LINE DATA | | | 01 | 12/07/24 | ACCEPTED FOR CONSTRUCTION | MMA | CBO | DLO |
| BUTT WELD THREADED HEAT TRACING | | DESIGN TEMP. (°C) | | DESIGN PRESS. (barg) | | STRESS SYS. | PED CAT. | PWHT | 00 | 07/06/24 | ISSUE FOR REVIEW | MMA | CBO | DLO |
| SOCKET PIPE SUPPORT INSULATED | | -29 | 80 | | 40 | 01 | III | No | | | | | | |

ROSETTI MARINO

# CROSSWIND

DWG TYTLE:

## 4"-HY-167-03HSS-N

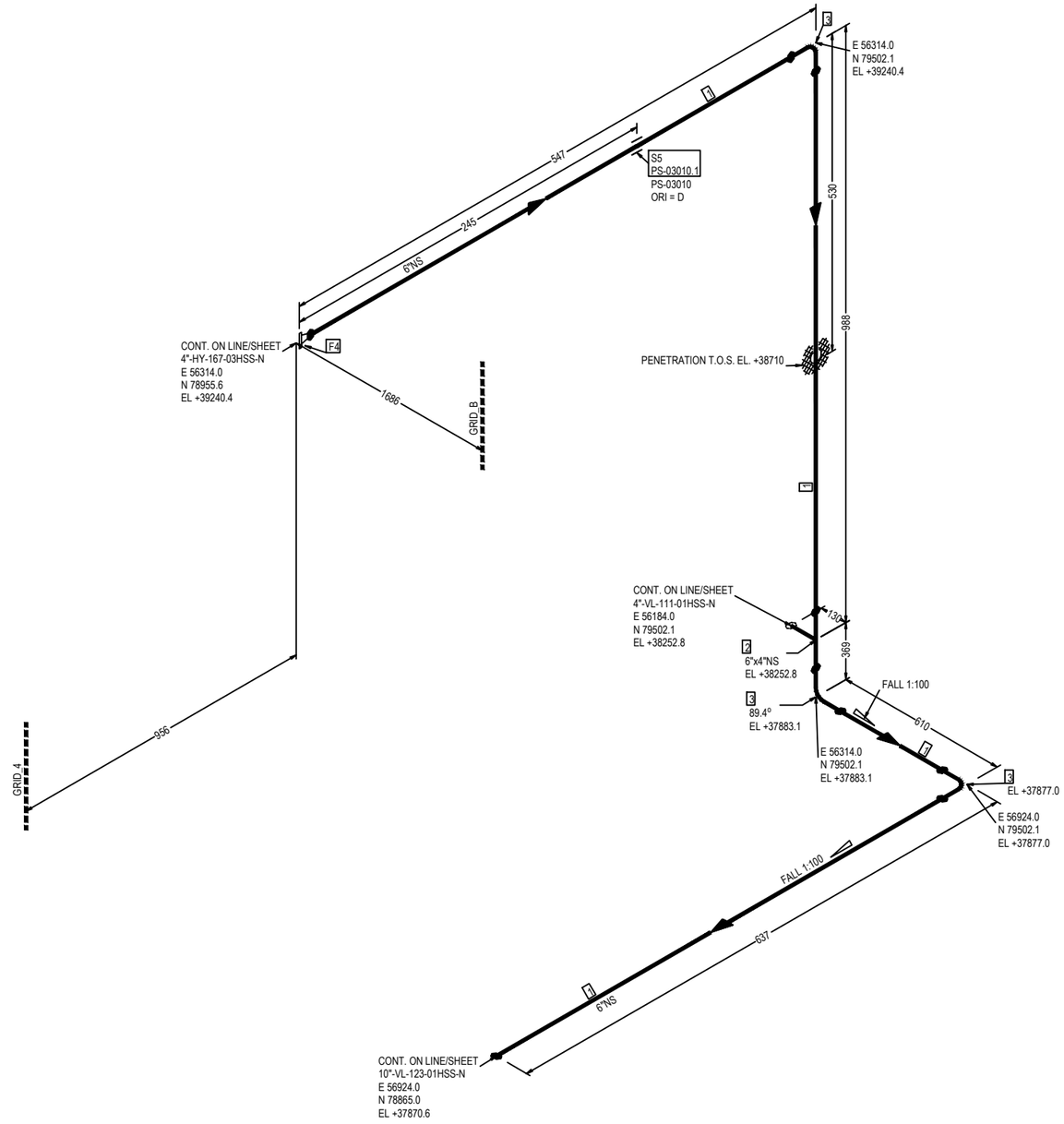
CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK

SCALE N.A.

| DRAWN | CHECKED | APPROVED | DATE |
|---|---|---|---|
| SPS | CBO | CGI | 29/09/25 |

| SIZE: | DRAWING NO. | SHEET | REV. |
|---|---|---|---|
| A3 | 123A90-DDL-PP-DI-71000_072 | 1 / 1 | 02 |

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FABRICATION MATERIALS

| PT NO | COMPONENT DESCRIPTION | N.S. | ITEM CODE | Q.TY | WEIGHT |
|---|---|---|---|---|---|
| 1 | Pipe ASME B36.19M PE 3,4 SML ASTM A312 Gr.TP316/316L | 6 | PIPESS00570600 | 1397MM | 19.56 |
| 2 | Tee Reducing ASME B16.9 BW 3,4x3,05 WRS ASTM A403 Gr.WP316/316L | 6 x 4 | TER0SS00170604 | 1 | 7.77 |
| 3 | 90 Deg Elbow Long Radius ASME B16.9 BW 3,4 WRS ASTM A403 Gr.WP316/316L | 6 | E90RSS01030600 | 3 | 14.82 |
| 4 | Flange WN ASME B16.5 300LB RF 3,4 FRG ASTM A182 Gr.F316/316L | 6 | FLW0SS00530600 | 1 | 19.29 |
| | | | TOTAL FABRICATION WEIGHT | | 61.44 |

ERECTION MATERIALS

| PT NO | COMPONENT DESCRIPTION | N.S. | ITEM CODE | Q.TY | WEIGHT |
|---|---|---|---|---|---|
| | SUPPORTS | | | | |
| 5 | /PS-03010.1 | 6 | | 1 | 1.42 |
| | | | TOTAL ERECTION WEIGHT | | 1.42 |
| | | | TOTAL WEIGHT | | 62.86 |

| REFERENCE DOCUMENTS | |
|---|---|
| 123A90-DDL-PP-RE-70001 | STRESS ANALYSIS REPORT |
| 123A90-DDL-PR-PID-80016 | P&ID |
| 123A90-DDL-MAT-SP-60003 | INSULATION SPECIFICATION |
| 123A90-DDL-MAT-SP-60006 | COATING & PAINTING SPEC. |
| 123A90-DDL-PP-00-72000 | PIPING SUPPORT BOOK |
| 123A90-DDL-PP-SP-70029 | PIPING MATERIAL CLASS |

SYMBOLS LEGEND:
BUTT WELD · THREADED · HEAT TRACING · SOCKET · PIPE SUPPORT · INSULATED

| NDT EXAMINATION | | | |
|---|---|---|---|
| NDT TYPE | % | NDT TYPE | % |
| RT | 100 | VT | 100 |
| INSPECTION CATEGORY | 1 | MT/PT | 100Ratio |

| TESTING | |
|---|---|
| TEST FLUID | TEST PRESS. [barg] |
| Water | 5.25 |

| PROCESS LINE DATA | | | |
|---|---|---|---|
| DESIGN TEMP. [°C] | | DESIGN PRESS. [barg] | |
| -29 | 100 | | 3.5 |

| INSULATION & PAINTING | | |
|---|---|---|
| INS. TYPE | INS. THK. | INS. SURF. [m²] |
| N | | |
| PAINT SYS. | BASE RAL | PAINT. SURF. [m²] |
| 6A | RAL 9002 | 1.51 |

| HEAT TRACING |
|---|
| - |

| LINE DATA | | |
|---|---|---|
| STRESS SYS. | PED CAT. | PWHT |
| 01 | II | No |

| Revision Number | Date | Description | Prepared by | Checked by | Approved by |
|---|---|---|---|---|---|
| 02 | 29/09/25 | AS-BUILT (ASB) | SPS | CBO | CGI |
| 01 | 12/07/24 | ACCEPTED FOR CONSTRUCTION | MMA | CBO | DLO |
| 00 | 07/06/24 | ISSUE FOR REVIEW | MMA | CBO | DLO |

ROSETTI MARINO

# CROSSWIND

DWG TYTLE:

# 6"-VL-168-01HSS-N

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK

SCALE N.A.

DRAWN SPS | CHECKED CBO | APPROVED CGI | DATE 29/09/25

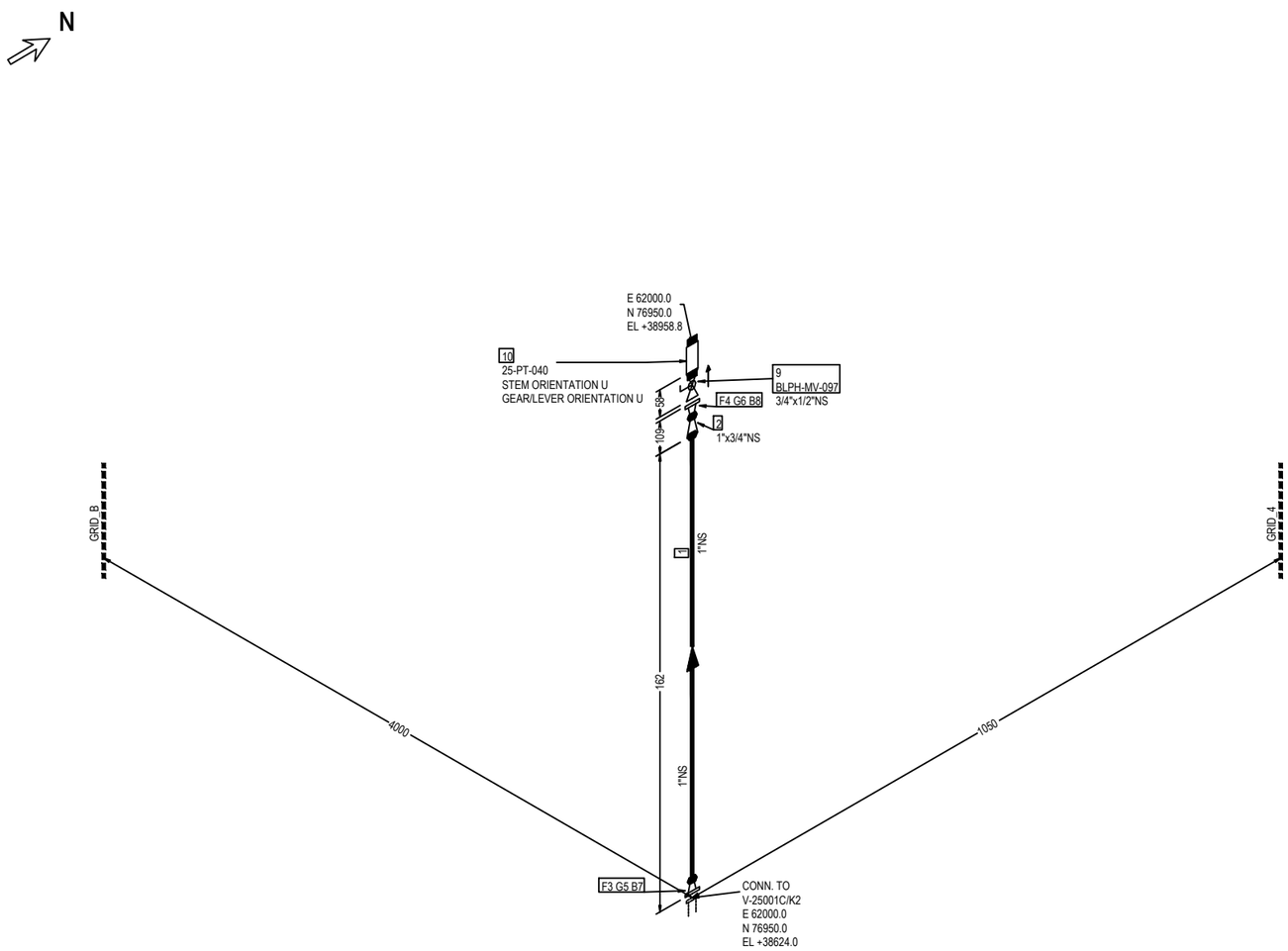
SIZE: A3

DRAWING NO. 123A90-DDL-PP-DI-71000_073

SHEET 1/1

REV. 02

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FABRICATION MATERIALS

| PT NO | COMPONENT DESCRIPTION | N.S. | ITEM CODE | Q.TY | WEIGHT |
|---|---|---|---|---|---|
| 1 | Pipe ASME B36.19M PE 3,38 SML ASTM A312 Gr.TP316/316L | 1 | PIPESS00480100 | 100MM | 0.25 |
| 2 | Reducer Concentric ASME B16.9 BW 3,38x2,87 WRS ASTM A403 Gr.WP316/316L | 1 x 3/4 | REC0SS0120013Q | 1 | 0.14 |
| 3 | Flange WN ASME B16.5 300LB RF 3,38 FRG ASTM A182 Gr.F316/316L | 1 | FLW0SS03270100 | 1 | 1.83 |
| 4 | Flange WN ASME B16.5 300LB RF 2,87 FRG ASTM A182 Gr.F316/316L | 3/4 | FLW0SS01033Q00 | 1 | 1.42 |
| | | | | TOTAL FABRICATION WEIGHT | 3.64 |

ERECTION MATERIALS

| PT NO | COMPONENT DESCRIPTION | N.S. | ITEM CODE | Q.TY | WEIGHT |
|---|---|---|---|---|---|
| 5 | Insulation Kit Ends as per ASME B16.5 300LB RF | 1 | SPIKNN01420100 | 1 | 0.07 |
| 6 | Gasket Spiral Wound Thk. 3.2 mm ASME B16.20 300LB RF GSK AISI 316 + GRAPHITE c/w INNER RING | 3/4 | GSW0GK11203Q00 | 1 | 0.07 |
| 7 | 85 Stud Bolt + 2 Heavy Nuts ASME B1.1 ASTM A193 Gr.B7 - A194 Gr.2H Hot dip galvanized | 5/8 | SB20BO00660300 | 4 | 0.96 |
| 8 | 95 Stud Bolt + 2 Heavy Nuts ASME B1.1 ASTM A193 Gr.B7 - A194 Gr.2H Hot dip galvanized | 5/8 | SB20BO00670300 | 4 | 1.00 |
| 9 | Monoflange Double Block & Bleed Valve API 6D FLG x THRD-F NPT 300LB RF MD03C02YH | 3/4 x 1/2 | VLBMNN00013Q0H | 1 | 5.80 |
| | INSTRUMENTS | | | | |
| 10 | Pressure Transmitter - Online 25-PT-040 | 1/2 | | 1 | --- |
| | | | | TOTAL ERECTION WEIGHT | 7.90 |
| | | | | TOTAL WEIGHT | 11.54 |

| REFERENCE DOCUMENTS | |
|---|---|
| 123A90-DDL-PP-RE-70001 | STRESS ANALYSIS REPORT |
| 123A90-DDL-PR-PID-80017 | P&ID |
| 123A90-DDL-MAT-SP-60003 | INSULATION SPECIFICATION |
| 123A90-DDL-MAT-SP-60006 | COATING & PAINTING SPEC. |
| 123A90-DDL-PP-00-72000 | PIPING SUPPORT BOOK |
| 123A90-DDL-PP-SP-70029 | PIPING MATERIAL CLASS |

SYMBOLS LEGEND:
BUTT WELD · THREADED · HEAT TRACING · SOCKET · PIPE SUPPORT · INSULATED

| NDT EXAMINATION | | | |
|---|---|---|---|
| NDT TYPE | % | NDT TYPE | % |
| RT | 100 | VT | 100 |
| INSPECTION CATEGORY | 1 | MT/PT | 100 |
| TESTING | | | |
| TEST FLUID | | TEST PRESS.(barg) | |
| Water | | 60 | |

| PROCESS LINE DATA | | | |
|---|---|---|---|
| DESIGN TEMP. (°C) | | DESIGN PRESS.(barg) | |
| -29 | 80 | | 40 |

| INSULATION & PAINTING | | |
|---|---|---|
| INS. TYPE | INS. THK. | INS. SURF. (m²) |
| N | | |
| PAINT SYS. | BASE RAL | PAINT. SURF. (m²) |
| 6A | RAL 9002 | 0.03 |
| HEAT TRACING | | |
| - | | |

| LINE DATA | | |
|---|---|---|
| STRESS SYS. | PED CAT. | PWHT |
| - | II | No |

| Revision Number | Date | Description | Prepared by | Checked by | Approved by |
|---|---|---|---|---|---|
| 02 | 29/09/25 | AS-BUILT (ASB) | SPS | CBO | CGI |
| 01 | 26/07/24 | ACCEPTED FOR CONSTRUCTION | MMA | CBO | DLO |
| 00 | 07/06/24 | ISSUE FOR REVIEW | MMA | CBO | DLO |

ROSETTI MARINO

CROSSWIND

DWG TYTLE:

# 1"-HY-169-03HSS-N

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK

SCALE N.A.

DRAWN SPS | CHECKED CBO | APPROVED CGI | DATE 29/09/25

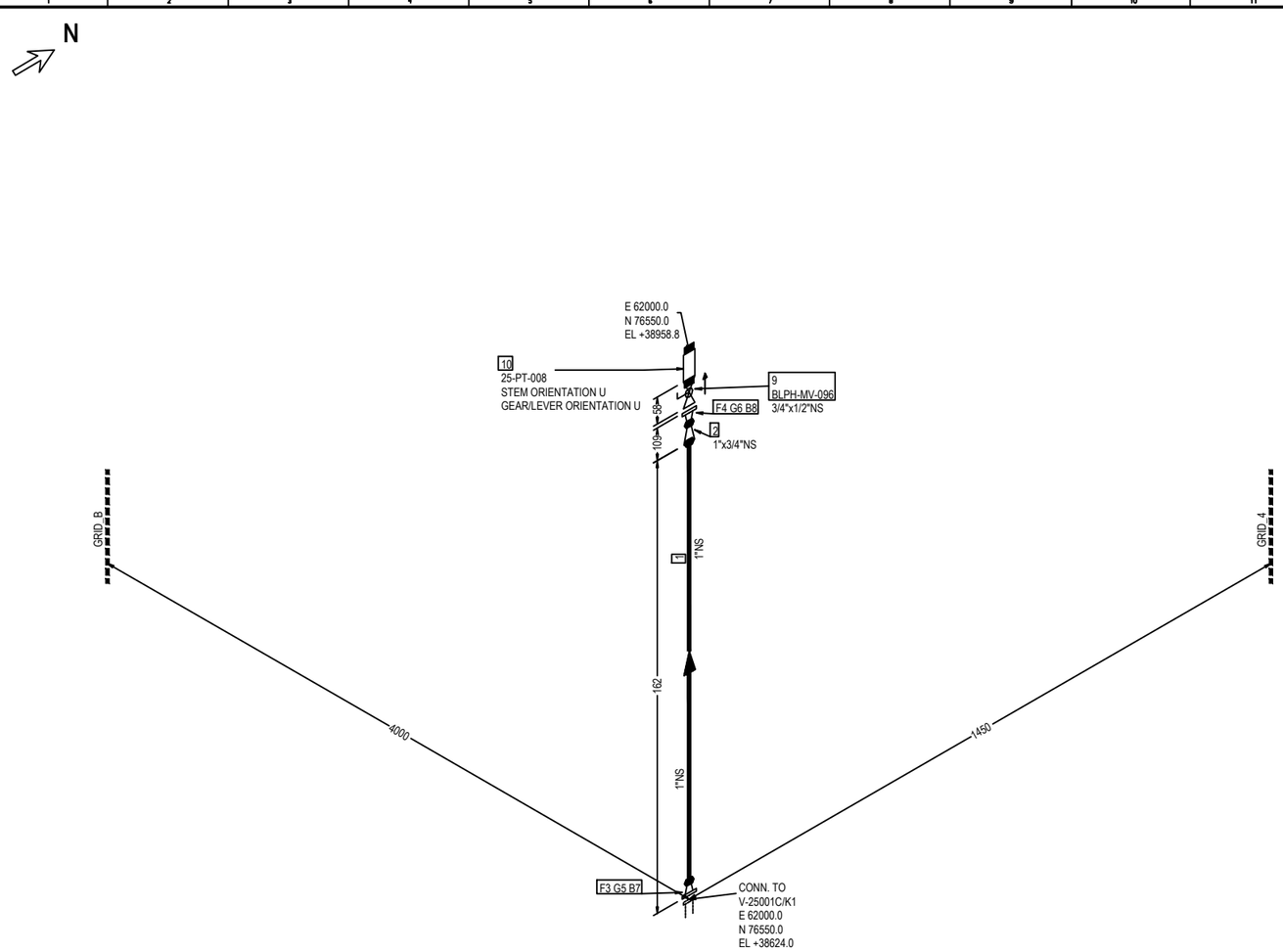
SIZE: A3

DRAWING NO. 123A90-DDL-PP-DI-71000-074

SHEET 1/2

REV. 02

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FABRICATION MATERIALS

| PT NO | COMPONENT DESCRIPTION | N.S. | ITEM CODE | Q.TY | WEIGHT |
|---|---|---|---|---|---|
| 1 | Pipe ASME B36.19M PE 3,38 SML ASTM A312 Gr.TP316/316L | 1 | PIPESS00480100 | 100MM | 0.25 |
| 2 | Reducer Concentric ASME B16.9 BW 3,38x2,87 WRS ASTM A403 Gr.WP316/316L | 1 x 3/4 | REC0SS0120013Q | 1 | 0.14 |
| 3 | Flange WN ASME B16.5 300LB RF 3,38 FRG ASTM A182 Gr.F316/316L | 1 | FLW0SS03270100 | 1 | 1.83 |
| 4 | Flange WN ASME B16.5 300LB RF 2,87 FRG ASTM A182 Gr.F316/316L | 3/4 | FLW0SS01033Q00 | 1 | 1.42 |
| | | | | TOTAL FABRICATION WEIGHT | 3.64 |

ERECTION MATERIALS

| PT NO | COMPONENT DESCRIPTION | N.S. | ITEM CODE | Q.TY | WEIGHT |
|---|---|---|---|---|---|
| 5 | Insulation Kit Ends as per ASME B16.5 300LB RF | 1 | SPIKNN01420100 | 1 | 0.07 |
| 6 | Gasket Spiral Wound Thk. 3.2 mm ASME B16.20 300LB RF GSK AISI 316 + GRAPHITE c/w INNER RING | 3/4 | GSW0GK11203Q00 | 1 | 0.07 |
| 7 | 85 Stud Bolt + 2 Heavy Nuts ASME B1.1 ASTM A193 Gr.B7 - A194 Gr.2H Hot dip galvanized | 5/8 | | 4 | 0.96 |
| 8 | 95 Stud Bolt + 2 Heavy Nuts ASME B1.1 ASTM A193 Gr.B7 - A194 Gr.2H Hot dip galvanized | 5/8 | SB20BO00670300 | 4 | 1.00 |
| 9 | Monoflange Double Block & Bleed Valve API 6D FLG x THRD-F NPT 300LB RF MD03C02YH | 3/4 x 1/2 | VLBMNN00013Q0H | 1 | 5.80 |
| | INSTRUMENTS | | | | |
| 10 | Pressure Transmitter - Online 25-PT-008 | 1/2 | | 1 | --- |
| | | | | TOTAL ERECTION WEIGHT | 7.90 |
| | | | | TOTAL WEIGHT | 11.54 |

| REFERENCE DOCUMENTS | |
|---|---|
| 123A90-DDL-PP-RE-70001 | STRESS ANALYSIS REPORT |
| 123A90-DDL-PR-PID-80017 | P&ID |
| 123A90-DDL-MAT-SP-60003 | INSULATION SPECIFICATION |
| 123A90-DDL-MAT-SP-60006 | COATING & PAINTING SPEC. |
| 123A90-DDL-PP-00-72000 | PIPING SUPPORT BOOK |
| 123A90-DDL-PP-SP-70029 | PIPING MATERIAL CLASS |

SYMBOLS LEGEND:
BUTT WELD · THREADED · HEAT TRACING · SOCKET · PIPE SUPPORT · INSULATED

| NDT EXAMINATION | | | |
|---|---|---|---|
| NDT TYPE | % | NDT TYPE | % |
| RT | 100 | VT | 100 |
| INSPECTION CATEGORY | 1 | MT/PT | 100 |
| TESTING | | | |
| TEST FLUID | | TEST PRESS.(barg) | |
| Water | | 60 | |
| PROCESS LINE DATA | | | |
| DESIGN TEMP. (°C) | | DESIGN PRESS.(barg) | |
| -29 | 80 | | 40 |

| INSULATION & PAINTING | | |
|---|---|---|
| INS. TYPE | INS. THK. | INS. SURF. (m²) |
| N | | |
| PAINT SYS. | BASE RAL | PAINT. SURF. (m²) |
| 6A | RAL 9002 | 0.03 |
| HEAT TRACING | | |
| - | | |
| LINE DATA | | |
| STRESS SYS. | PED CAT. | PWHT |
| - | II | No |

| Revision Number | Date | Description | Prepared by | Checked by | Approved by |
|---|---|---|---|---|---|
| 02 | 29/09/25 | AS-BUILT (ASB) | SPS | CBO | CGI |
| 01 | 26/07/24 | ACCEPTED FOR CONSTRUCTION | MMA | CBO | DLO |
| 00 | 07/06/24 | ISSUE FOR REVIEW | MMA | CBO | DLO |

ROSETTI MARINO

# CROSSWIND

DWG TYTLE:

## 1"-HY-169-03HSS-N

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK

SCALE N.A.

DRAWN SPS | CHECKED CBO | APPROVED CGI | DATE 29/09/25

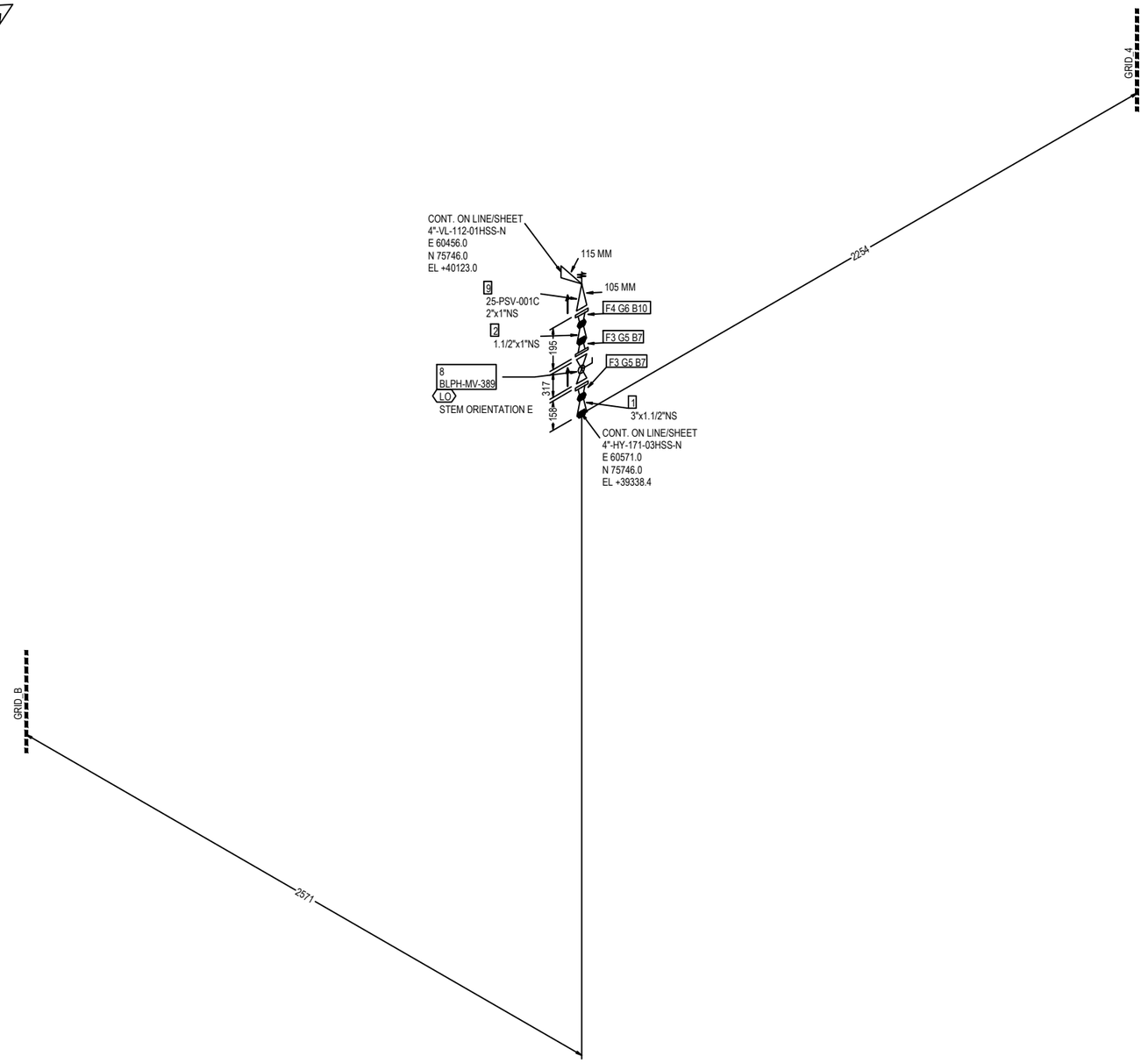
SIZE: A3

DRAWING NO. 123A90-DDL-PP-DI-71000-074

SHEET 2/2

REV. 02

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FABRICATION MATERIALS

| PT NO | COMPONENT DESCRIPTION | N.S. | ITEM CODE | Q.TY | WEIGHT |
|---|---|---|---|---|---|
| 1 | Reducer Concentric ASME B16.9 BW 3,05x3,68 WRS ASTM A403 Gr.WP316/316L | 3 x 1.1/2 | REC0SS0128031H | 1 | 0.48 |
| 2 | Reducer Concentric ASME B16.9 BW 3,68x3,38 WRS ASTM A403 Gr.WP316/316L | 1.1/2 x 1 | REC0SS03191H01 | 1 | 0.26 |
| 3 | Flange WN ASME B16.5 300LB RF 3,68 FRG ASTM A182 Gr.F316/316L | 1.1/2 | FLW0SS03481H00 | 2 | 6.50 |
| 4 | Flange WN ASME B16.5 300LB RF 3,38 FRG ASTM A182 Gr.F316/316L | 1 | FLW0SS03270100 | 1 | 1.83 |
| | | | TOTAL FABRICATION WEIGHT | | 9.07 |

ERECTION MATERIALS

| PT NO | COMPONENT DESCRIPTION | N.S. | ITEM CODE | Q.TY | WEIGHT |
|---|---|---|---|---|---|
| 5 | Gasket Spiral Wound Thk. 3.2 mm ASME B16.20 300LB RF GSK AISI 316 + GRAPHITE c/w INNER RING | 1.1/2 | GSW0GK11221H00 | 2 | 0.22 |
| 6 | Gasket Spiral Wound Thk. 3.2 mm ASME B16.20 300LB RF GSK AISI 316 + GRAPHITE c/w INNER RING | 1 | GSW0GK11210100 | 1 | 0.07 |
| 7 | 95 Stud Bolt + 2 Heavy Nuts ASME B1.1 ASTM A193 Gr.B7 - A194 Gr.2H Hot dip galvanized | 3/4 | SB20BO23540400 | 8 | 3.12 |
| 10 | 100 Stud Bolt + 2 Heavy Nuts ASME B1.1 ASTM A193 Gr.B7 - A194 Gr.2H Hot dip galvanized | 5/8 | SB20BO00680300 | 4 | 1.04 |
| 8 | Double Block & Bleed Valve API 6D FLG 300LB RF DA03C01RFH | 1.1/2 | VLBBNN07201H00 | 1 | 40.00 |
| | INSTRUMENTS | | | | |
| 9 | Pressure Safety Valve FLG.300/150#RF 25-PSV-001C | 2 x 1 | | 1 | 15.00 |
| | | | TOTAL ERECTION WEIGHT | | 59.45 |
| | | | TOTAL WEIGHT | | 68.52 |

| REFERENCE DOCUMENTS | |
|---|---|
| 123A90-DDL-PP-RE-70001 | STRESS ANALYSIS REPORT |
| 123A90-DDL-PR-PID-80017 | P&ID |
| 123A90-DDL-MAT-SP-60003 | INSULATION SPECIFICATION |
| 123A90-DDL-MAT-SP-60006 | COATING & PAINTING SPEC. |
| 123A90-DDL-PP-00-72000 | PIPING SUPPORT BOOK |
| 123A90-DDL-PP-SP-70029 | PIPING MATERIAL CLASS |

SYMBOLS LEGEND:
BUTT WELD — THREADED — HEAT TRACING
SOCKET — PIPE SUPPORT — INSULATED

| NDT EXAMINATION | | | |
|---|---|---|---|
| NDT TYPE | % | NDT TYPE | % |
| RT | 100 | VT | 100 |
| INSPECTION CATEGORY | 1 | MT/PT | 100Ratio |
| TESTING | | | |
| TEST FLUID | | TEST PRESS.(barg) | |
| Water | | 60 | |
| PROCESS LINE DATA | | | |
| DESIGN TEMP. (°C) | | DESIGN PRESS.(barg) | |
| -29 | 80 | | 40 |

| INSULATION & PAINTING | | |
|---|---|---|
| INS. TYPE | INS. THK. | INS. SURF. (m²) |
| N | | |
| PAINT SYS. | BASE RAL | PAINT. SURF. (m²) |
| 6A | RAL 9002 | 0.14 |
| HEAT TRACING | | |
| - | | |
| LINE DATA | | |
| STRESS SYS. | PED CAT. | PWHT |
| 01 | II | No |

| Revision Number | Date | Description | Prepared by | Checked by | Approved by |
|---|---|---|---|---|---|
| 02 | 29/09/25 | AS-BUILT (ASB) | SPS | CBO | CGI |
| 01 | 12/07/24 | ACCEPTED FOR CONSTRUCTION | MMA | CBO | DLO |
| 00 | 07/06/24 | ISSUE FOR REVIEW | MMA | CBO | DLO |

ROSETTI MARINO

# CROSSWIND

DWG TYTLE:

## 1-1/2"-HY-170-03HSS-N

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK

SCALE N.A.

DRAWN SPS | CHECKED CBO | APPROVED CGI | DATE 29/09/25

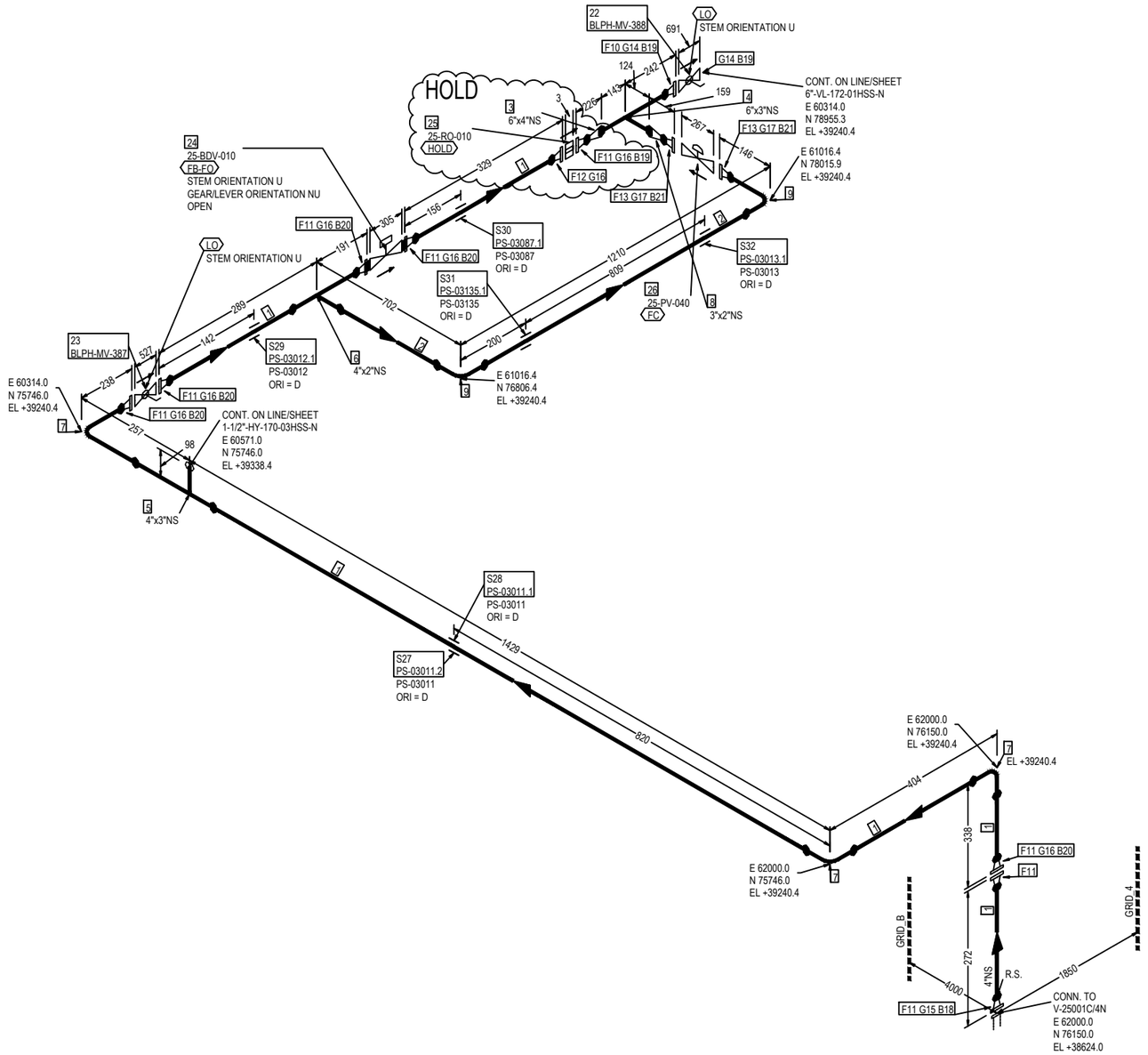
SIZE: A3

DRAWING NO. 123A90-DDL-PP-DI-71000_075

SHEET 1/1

REV. 02

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FABRICATION MATERIALS

| PT NO | COMPONENT DESCRIPTION | N.S. | ITEM CODE | Q.TY | WEIGHT |
|---|---|---|---|---|---|
| 1 | Pipe ASME B36.19M PE 3,05 SML ASTM A312 Gr.TP316/316L | 4 | PIPESS00560400 | 1727MM | 14.68 |
| 2 | Pipe ASME B36.19M PE 2,77 SML ASTM A312 Gr.TP316/316L | 2 | PIPESS00540200 | 1595MM | 6.38 |
| 3 | Reducer Concentric ASME B16.9 BW 7,11x3,05 WRS ASTM A403 Gr.WP316/316L | 6 x 4 | REC0SS03250604 | 1 | 3.56 |
| 4 | Tee Reducing ASME B16.9 BW 7,11x3,05 WRS ASTM A403 Gr.WP316/316L | 6 x 3 | TER0SS03820603 | 1 | 16.24 |
| 5 | Tee Reducing ASME B16.9 BW 3,05x3,05 WRS ASTM A403 Gr.WP316/316L | 4 x 3 | TER0SS01680403 | 1 | 2.66 |
| 6 | Tee Reducing ASME B16.9 BW 3,05x2,77 WRS ASTM A403 Gr.WP316/316L | 4 x 2 | TER0SS03250402 | 1 | 2.57 |
| 7 | 90 Deg Elbow Long Radius ASME B16.9 BW 3,05 WRS ASTM A403 Gr.WP316/316L | 4 | E90RSS01020400 | 3 | 6.03 |
| 8 | Reducer Concentric ASME B16.9 BW 3,05x2,77 WRS ASTM A403 Gr.WP316/316L | 3 x 2 | REC0SS02770302 | 1 | 0.51 |
| 9 | 90 Deg Elbow Long Radius ASME B16.9 BW 2,77 WRS ASTM A403 Gr.WP316/316L | 2 | E90RSS00010200 | 2 | 0.94 |
| 10 | Flange WN ASME B16.5 300LB RF 7,11 FRG ASTM A182 Gr.F316/316L | 6 | FLW0SS03290600 | 1 | 19.29 |
| 11 | Flange WN ASME B16.5 300LB RF 3,05 FRG ASTM A182 Gr.F316/316L | 4 | FLW0SS03370400 | 8 | 89.36 |
| 12 | Flange WN For Jackscrews ASME B16.5 300LB RF 3,05 FRG ASTM A182 Gr.F316/316L | 4 | FLWDSS00030400 | 1 | 11.17 |
| 13 | Flange WN ASME B16.5 300LB RF 2,77 FRG ASTM A182 Gr.F316/316L | 2 | FLW0SS00180200 | 2 | 8.32 |
| | | | | TOTAL FABRICATION WEIGHT | 181.71 |

ERECTION MATERIALS

| PT NO | COMPONENT DESCRIPTION | N.S. | ITEM CODE | Q.TY | WEIGHT |
|---|---|---|---|---|---|
| 14 | Gasket Spiral Wound Thk. 3.2 mm ASME B16.20 300LB RF GSK AISI 316 + GRAPHITE c/w INNER RING | 6 | GSW0GK11260600 | 2 | 0.90 |
| 15 | Insulation Kit Ends as per ASME B16.5 300LB RF | 4 | SPIKNN00700400 | 1 | 0.27 |
| 16 | Gasket Spiral Wound Thk. 3.2 mm ASME B16.20 300LB RF GSK AISI 316 + GRAPHITE c/w INNER RING | 4 | GSW0GK11250400 | 7 | 2.59 |
| 17 | Gasket Spiral Wound Thk. 3.2 mm ASME B16.20 300LB RF GSK AISI 316 + GRAPHITE c/w INNER RING | 2 | GSW0GK11230200 | 2 | 0.26 |
| 18 | 130 Stud Bolt + 2 Heavy Nuts ASME B1.1 ASTM A193 Gr.B7 - A194 Gr.2H Hot dip galvanized | 3/4 | SB20BO19820400 | 8 | 3.84 |
| 19 | 125 Stud Bolt + 2 Heavy Nuts ASME B1.1 ASTM A193 Gr.B7 - A194 Gr.2H Hot dip galvanized | 3/4 | SB20BO01660400 | 32 | HOLD 14.72 |
| 20 | 115 Stud Bolt + 2 Heavy Nuts ASME B1.1 ASTM A193 Gr.B7 - A194 Gr.2H Hot dip galvanized | 3/4 | SB20BO01650400 | 40 | 17.60 |
| 21 | 90 Stud Bolt + 2 Heavy Nuts ASME B1.1 ASTM A193 Gr.B7 - A194 Gr.2H Hot dip galvanized | 5/8 | SB20BO04190300 | 16 | 4.00 |
| 22 | Double Block & Bleed Valve API 6D FLG 300LB RF DA03C01RFH | 6 | VLBBNN07240600 | 1 | 350.00 |
| 23 | Double Block & Bleed Valve API 6D FLG 300LB RF DA03C01RFH | 4 | VLBBNN07230400 | 1 | 170.00 |
| | INSTRUMENTS | | | | |
| 24 | ON/OFF Ball Actuator Valve - 300#RF Flanged 25-BDV-010 | 4 | | 1 | 169.00 |
| 25 | Restriction Orifice 300#RF 25-RO-010 | 4 | | 1 | 1.00 |
| 26 | Control Valve - FLG 300 #RF 25-PV-040 | 2 | | 1 | 41.00 |
| | SUPPORTS | | | | |
| 27 | /PS-03011.2 | 4 | | 1 | 0.06 |
| 28 | /PS-03011.1 | 4 | | 1 | 0.06 |
| 29 | /PS-03012.1 | 4 | | 1 | 0.67 |
| 30 | /PS-03087.1 | 4 | | 1 | 0.67 |
| 31 | /PS-03135.1 | 2 | | 1 | 0.33 |
| 32 | /PS-03013.1 | 2 | | 1 | 0.33 |
| | | | | TOTAL ERECTION WEIGHT | 777.30 |
| | | | | TOTAL WEIGHT | 959.01 |

| REFERENCE DOCUMENTS | |
|---|---|
| 123A90-DDL-PP-RE-70001 | STRESS ANALYSIS REPORT |
| 123A90-DDL-PR-PID-80017 | P&ID |
| 123A90-DDL-MAT-SP-60003 | INSULATION SPECIFICATION |
| 123A90-DDL-MAT-SP-60006 | COATING & PAINTING SPEC. |
| 123A90-DDL-PP-00-72000 | PIPING SUPPORT BOOK |
| 123A90-DDL-PP-SP-70029 | PIPING MATERIAL CLASS |

SYMBOLS LEGEND:
BUTT WELD · THREADED · HEAT TRACING · SOCKET · PIPE SUPPORT · INSULATED

| NDT EXAMINATION | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NDT TYPE | % | NDT TYPE | % | | | | | | | | | | | |
| RT | 100 | VT | 100 | | | | | | | | | | | |
| INSPECTION CATEGORY | 1 | MT/PT | 100Ratio | | | | | | | | | | | |
| TESTING | | | | | | | | | | | | | | |
| TEST FLUID | | TEST PRESS.(barg) | | | | | | | | | | | | |
| Water | | 60 | | | | | | | | | | | | |
| PROCESS LINE DATA | | | | | | | | | | | | | | |
| DESIGN TEMP. (°C) | | DESIGN PRESS.(barg) | | | | | | | | | | | | |
| -29 | 80 | | 40 | | | | | | | | | | | |

| INSULATION & PAINTING | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| INS. TYPE | INS. THK. | INS. SURF. (m²) | | | | | | | | | | | | |
| N | | | | | | | | | | | | | | |
| PAINT SYS. | BASE RAL | PAINT. SURF. (m²) | | | | | | | | | | | | |
| 6A | RAL 9002 | 2.65 | | | | | | | | | | | | |
| HEAT TRACING | | | | | | | | | | | | | | |
| - | | | | | | | | | | | | | | |
| LINE DATA | | | | | | | | | | | | | | |
| STRESS SYS. | PED CAT. | PWHT | | | | | | | | | | | | |
| 01 | III | No | | | | | | | | | | | | |

| Revision Number | Date | Description | Prepared by | Checked by | Approved by |
|---|---|---|---|---|---|
| 02 | 29/09/25 | AS-BUILT (ASB) | SPS | CBO | CGI |
| 01 | 12/07/24 | ACCEPTED FOR CONSTRUCTION | MMA | CBO | DLO |
| 00 | 07/06/24 | ISSUE FOR REVIEW | MMA | CBO | DLO |

ROSETTI MARINO

CROSSWIND

DWG TYTLE:

# 4"-HY-171-03HSS-N

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK

SCALE N.A.

DRAWN SPS | CHECKED CBO | APPROVED CGI | DATE 29/09/25

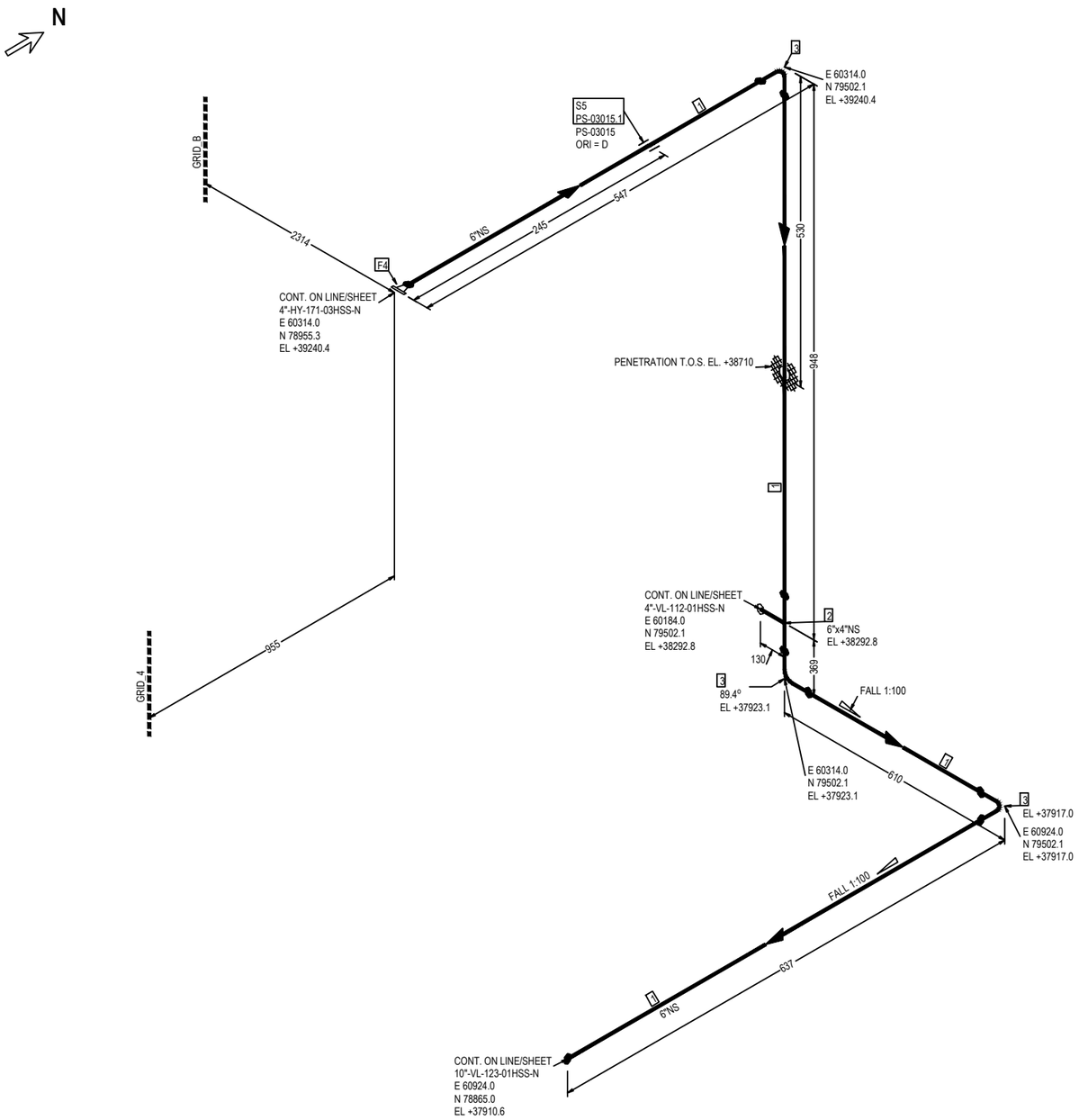
SIZE: A3

DRAWING NO. 123A90-DDL-PP-DI-71000_076

SHEET 1/1

REV. 02

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FABRICATION MATERIALS

| PT NO | COMPONENT DESCRIPTION | N.S. | ITEM CODE | Q.TY | WEIGHT |
|---|---|---|---|---|---|
| 1 | Pipe ASME B36.19M PE 3,4 SML ASTM A312 Gr.TP316/316L | 6 | PIPESS00570600 | 1357MM | 19.00 |
| 2 | Tee Reducing ASME B16.9 BW 3,4x3,05 WRS ASTM A403 Gr.WP316/316L | 6 x 4 | TER0SS00170604 | 1 | 7.77 |
| 3 | 90 Deg Elbow Long Radius ASME B16.9 BW 3,4 WRS ASTM A403 Gr.WP316/316L | 6 | E90RSS01030600 | 3 | 14.82 |
| 4 | Flange WN ASME B16.5 300LB RF 3,4 FRG ASTM A182 Gr.F316/316L | 6 | FLW0SS00530600 | 1 | 19.29 |
| | | | | TOTAL FABRICATION WEIGHT | 60.88 |

ERECTION MATERIALS

| PT NO | COMPONENT DESCRIPTION | N.S. | ITEM CODE | Q.TY | WEIGHT |
|---|---|---|---|---|---|
| | SUPPORTS | | | | |
| 5 | /PS-03015.1 | 6 | | 1 | 1.42 |
| | | | | TOTAL ERECTION WEIGHT | 1.42 |
| | | | | TOTAL WEIGHT | 62.30 |

| REFERENCE DOCUMENTS | |
|---|---|
| 123A90-DDL-PP-RE-70001 | STRESS ANALYSIS REPORT |
| 123A90-DDL-PR-PID-80017 | P&ID |
| 123A90-DDL-MAT-SP-60003 | INSULATION SPECIFICATION |
| 123A90-DDL-MAT-SP-60006 | COATING & PAINTING SPEC. |
| 123A90-DDL-PP-00-72000 | PIPING SUPPORT BOOK |
| 123A90-DDL-PP-SP-70029 | PIPING MATERIAL CLASS |

SYMBOLS LEGEND:
BUTT WELD · THREADED · HEAT TRACING · SOCKET · PIPE SUPPORT · INSULATED

| NDT EXAMINATION | | | |
|---|---|---|---|
| NDT TYPE | % | NDT TYPE | % |
| RT | 100 | VT | 100 |
| INSPECTION CATEGORY | 1 | MT/PT | 100Ratio |

| TESTING | |
|---|---|
| TEST FLUID | TEST PRESS.(barg) |
| Water | 5.25 |

| PROCESS LINE DATA | | | |
|---|---|---|---|
| DESIGN TEMP. (°C) | | DESIGN PRESS.(barg) | |
| -29 | 100 | | 3.5 |

| INSULATION & PAINTING | | |
|---|---|---|
| INS. TYPE | INS. THK. | INS. SURF. (m²) |
| N | | |
| PAINT SYS. | BASE RAL | PAINT. SURF. (m²) |
| 6A | RAL 9002 | 1.49 |

| HEAT TRACING |
|---|
| - |

| LINE DATA | | |
|---|---|---|
| STRESS SYS. | PED CAT. | PWHT |
| 01 | II | No |

| Revision Number | Date | Description | Prepared by | Checked by | Approved by |
|---|---|---|---|---|---|
| 02 | 29/09/25 | AS-BUILT (ASB) | SPS | CBO | CGI |
| 01 | 12/07/24 | ACCEPTED FOR CONSTRUCTION | MMA | CBO | DLO |
| 00 | 07/06/24 | ISSUE FOR REVIEW | MMA | CBO | DLO |

ROSETTI MARINO

CROSSWIND

DWG TYTLE:

# 6"-VL-172-01HSS-N

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK

SCALE N.A.

DRAWN SPS | CHECKED CBO | APPROVED CGI | DATE 29/09/25

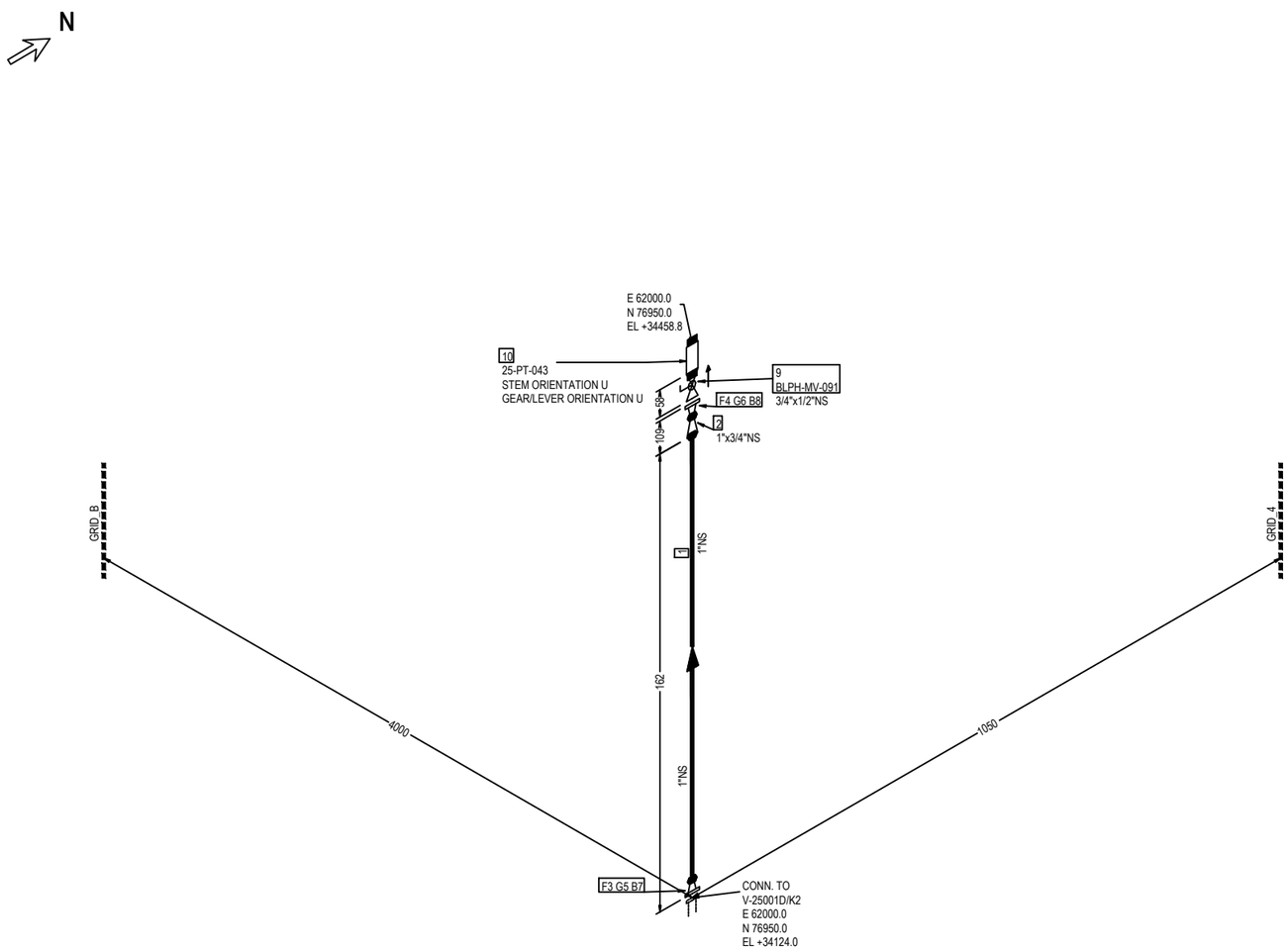
SIZE: A3

DRAWING NO. 123A90-DDL-PP-DI-71000_077

SHEET 1/1

REV. 02

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FABRICATION MATERIALS

| PT NO | COMPONENT DESCRIPTION | N.S. | ITEM CODE | Q.TY | WEIGHT |
|---|---|---|---|---|---|
| 1 | Pipe ASME B36.19M PE 3,38 SML ASTM A312 Gr.TP316/316L | 1 | PIPESS00480100 | 100MM | 0.25 |
| 2 | Reducer Concentric ASME B16.9 BW 3,38x2,87 WRS ASTM A403 Gr.WP316/316L | 1 x 3/4 | REC0SS0120013Q | 1 | 0.14 |
| 3 | Flange WN ASME B16.5 300LB RF 3,38 FRG ASTM A182 Gr.F316/316L | 1 | FLW0SS03270100 | 1 | 1.83 |
| 4 | Flange WN ASME B16.5 300LB RF 2,87 FRG ASTM A182 Gr.F316/316L | 3/4 | FLW0SS01033Q00 | 1 | 1.42 |
| | | | TOTAL FABRICATION WEIGHT | | 3.64 |

ERECTION MATERIALS

| PT NO | COMPONENT DESCRIPTION | N.S. | ITEM CODE | Q.TY | WEIGHT |
|---|---|---|---|---|---|
| 5 | Insulation Kit Ends as per ASME B16.5 300LB RF | 1 | SPIKNN01420100 | 1 | 0.07 |
| 6 | Gasket Spiral Wound Thk. 3.2 mm ASME B16.20 300LB RF GSK AISI 316 + GRAPHITE c/w INNER RING | 3/4 | GSW0GK11203Q00 | 1 | 0.07 |
| 7 | 85 Stud Bolt + 2 Heavy Nuts ASME B1.1 ASTM A193 Gr.B7 - A194 Gr.2H Hot dip galvanized | 5/8 | SB20BO00660300 | 4 | 0.96 |
| 8 | 95 Stud Bolt + 2 Heavy Nuts ASME B1.1 ASTM A193 Gr.B7 - A194 Gr.2H Hot dip galvanized | 5/8 | SB20BO00670300 | 4 | 1.00 |
| 9 | Monoflange Double Block & Bleed Valve API 6D FLG x THRD-F NPT 300LB RF MD03C02YH | 3/4 x 1/2 | VLBMNN00013Q0H | 1 | 5.80 |
| | INSTRUMENTS | | | | |
| 10 | Pressure Transmitter - Online 25-PT-043 | 1/2 | | 1 | --- |
| | | | TOTAL ERECTION WEIGHT | | 7.90 |
| | | | TOTAL WEIGHT | | 11.54 |

| REFERENCE DOCUMENTS | |
|---|---|
| 123A90-DDL-PP-RE-70001 | STRESS ANALYSIS REPORT |
| 123A90-DDL-PR-PID-80018 | P&ID |
| 123A90-DDL-MAT-SP-60003 | INSULATION SPECIFICATION |
| 123A90-DDL-MAT-SP-60006 | COATING & PAINTING SPEC. |
| 123A90-DDL-PP-00-72000 | PIPING SUPPORT BOOK |
| 123A90-DDL-PP-SP-70029 | PIPING MATERIAL CLASS |

SYMBOLS LEGEND:
BUTT WELD · THREADED · HEAT TRACING · SOCKET · PIPE SUPPORT · INSULATED

| NDT EXAMINATION | | | |
|---|---|---|---|
| NDT TYPE | % | NDT TYPE | % |
| RT | 100 | VT | 100 |
| INSPECTION CATEGORY | 1 | MT/PT | 100 |
| TESTING | | | |
| TEST FLUID | | TEST PRESS.(barg) | |
| Water | | 60 | |
| PROCESS LINE DATA | | | |
| DESIGN TEMP. (°C) | | DESIGN PRESS.(barg) | |
| -29 | 80 | | 40 |

| INSULATION & PAINTING | | |
|---|---|---|
| INS. TYPE | INS. THK. | INS. SURF. (m²) |
| N | | |
| PAINT SYS. | BASE RAL | PAINT. SURF. (m²) |
| 6A | RAL 9002 | 0.03 |
| HEAT TRACING | | |
| - | | |
| LINE DATA | | |
| STRESS SYS. | PED CAT. | PWHT |
| - | II | No |

| Revision Number | Date | Description | Prepared by | Checked by | Approved by |
|---|---|---|---|---|---|
| 02 | 29/09/25 | AS-BUILT (ASB) | SPS | CBO | CGI |
| 01 | 26/07/24 | ACCEPTED FOR CONSTRUCTION | MMA | CBO | DLO |
| 00 | 07/06/24 | ISSUE FOR REVIEW | MMA | CBO | DLO |

ROSETTI MARINO

# CROSSWIND

DWG TYTLE:

## 1"-HY-173-03HSS-N

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK

SCALE N.A.

DRAWN SPS | CHECKED CBO | APPROVED CGI | DATE 29/09/25

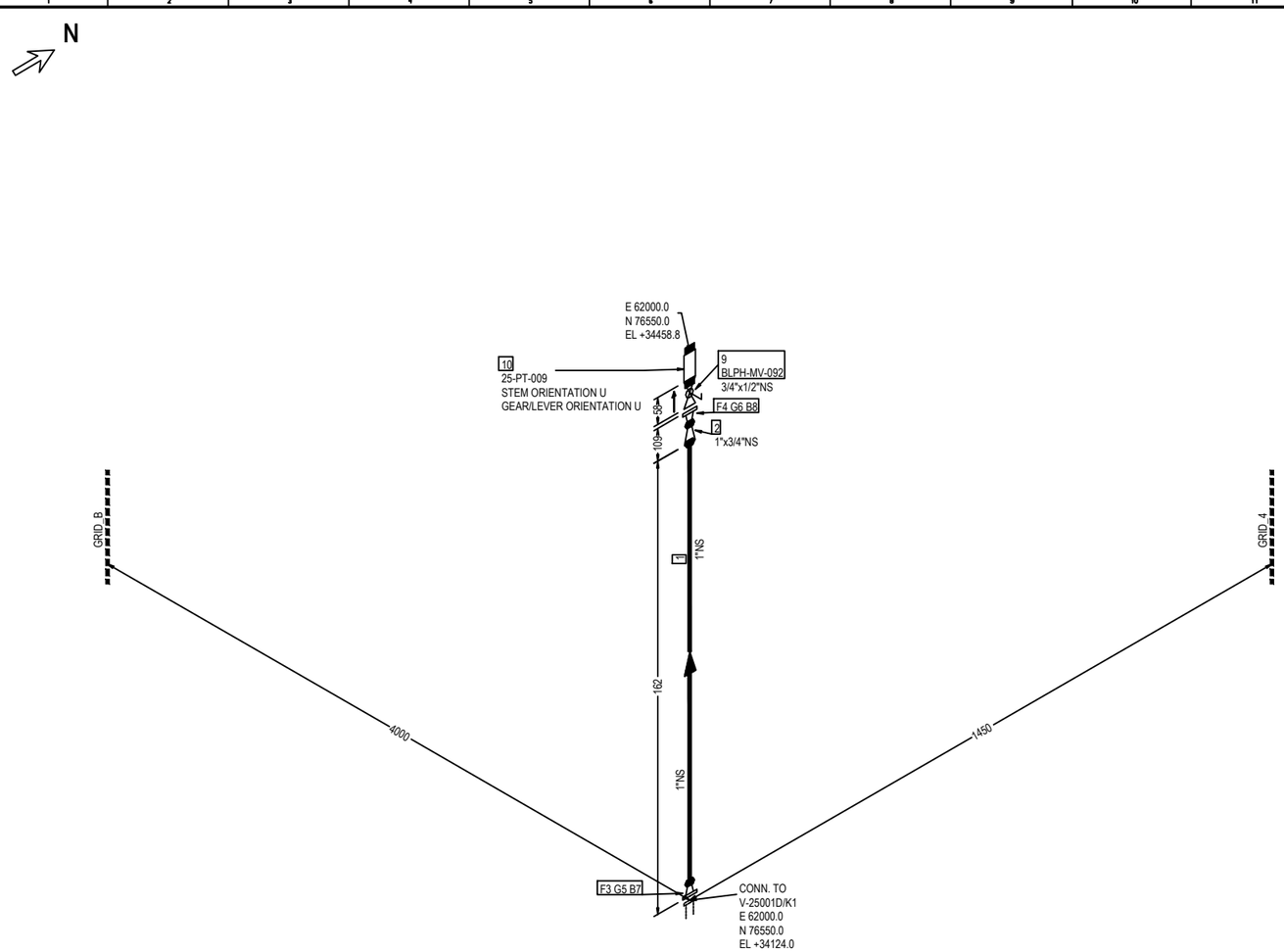
SIZE: A3

DRAWING NO. 123A90-DDL-PP-DI-71000-078

SHEET 1/2

REV. 02

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FABRICATION MATERIALS

| PT NO | COMPONENT DESCRIPTION | N.S. | ITEM CODE | Q.TY | WEIGHT |
|---|---|---|---|---|---|
| 1 | Pipe ASME B36.19M PE 3,38 SML ASTM A312 Gr.TP316/316L | 1 | PIPESS00480100 | 100MM | 0.25 |
| 2 | Reducer Concentric ASME B16.9 BW 3,38x2,87 WRS ASTM A403 Gr.WP316/316L | 1 x 3/4 | REC0SS0120013Q | 1 | 0.14 |
| 3 | Flange WN ASME B16.5 300LB RF 3,38 FRG ASTM A182 Gr.F316/316L | 1 | FLW0SS03270100 | 1 | 1.83 |
| 4 | Flange WN ASME B16.5 300LB RF 2,87 FRG ASTM A182 Gr.F316/316L | 3/4 | FLW0SS01033Q00 | 1 | 1.42 |
| | | | TOTAL FABRICATION WEIGHT | | 3.64 |

ERECTION MATERIALS

| PT NO | COMPONENT DESCRIPTION | N.S. | ITEM CODE | Q.TY | WEIGHT |
|---|---|---|---|---|---|
| 5 | Insulation Kit Ends as per ASME B16.5 300LB RF | 1 | SPIKNN01420100 | 1 | 0.07 |
| 6 | Gasket Spiral Wound Thk. 3.2 mm ASME B16.20 300LB RF GSK AISI 316 + GRAPHITE c/w INNER RING | 3/4 | GSW0GK11203Q00 | 1 | 0.07 |
| 7 | 85 Stud Bolt + 2 Heavy Nuts ASME B1.1 ASTM A193 Gr.B7 - A194 Gr.2H Hot dip galvanized | 5/8 | SB20BO00660300 | 4 | 0.96 |
| 8 | 95 Stud Bolt + 2 Heavy Nuts ASME B1.1 ASTM A193 Gr.B7 - A194 Gr.2H Hot dip galvanized | 5/8 | SB20BO00670300 | 4 | 1.00 |
| 9 | Monoflange Double Block & Bleed Valve API 6D FLG x THRD-F NPT 300LB RF MD03C02YH | 3/4 x 1/2 | VLBMNN00013Q0H | 1 | 5.80 |
| | INSTRUMENTS | | | | |
| 10 | Pressure Transmitter - Online 25-PT-009 | 1/2 | | 1 | --- |
| | | | TOTAL ERECTION WEIGHT | | 7.90 |
| | | | TOTAL WEIGHT | | 11.54 |

| REFERENCE DOCUMENTS | |
|---|---|
| 123A90-DDL-PP-RE-70001 | STRESS ANALYSIS REPORT |
| 123A90-DDL-PR-PID-80018 | P&ID |
| 123A90-DDL-MAT-SP-60003 | INSULATION SPECIFICATION |
| 123A90-DDL-MAT-SP-60006 | COATING & PAINTING SPEC. |
| 123A90-DDL-PP-00-72000 | PIPING SUPPORT BOOK |
| 123A90-DDL-PP-SP-70029 | PIPING MATERIAL CLASS |

SYMBOLS LEGEND:
BUTT WELD, THREADED, HEAT TRACING, SOCKET, PIPE SUPPORT, INSULATED

| NDT EXAMINATION | | | |
|---|---|---|---|
| NDT TYPE | % | NDT TYPE | % |
| RT | 100 | VT | 100 |
| INSPECTION CATEGORY | 1 | MT/PT | 100 |
| TESTING | | | |
| TEST FLUID | | TEST PRESS.(barg) | |
| Water | | 60 | |
| PROCESS LINE DATA | | | |
| DESIGN TEMP. (°C) | | DESIGN PRESS.(barg) | |
| -29 | 80 | | 40 |

| INSULATION & PAINTING | | |
|---|---|---|
| INS. TYPE | INS. THK. | INS. SURF. (m²) |
| N | | |
| PAINT SYS. | BASE RAL | PAINT. SURF. (m²) |
| 6A | RAL 9002 | 0.03 |
| HEAT TRACING | | |
| - | | |
| LINE DATA | | |
| STRESS SYS. | PED CAT. | PWHT |
| - | II | No |

| Revision Number | Date | Description | Prepared by | Checked by | Approved by |
|---|---|---|---|---|---|
| 02 | 29/09/25 | AS-BUILT (ASB) | SPS | CBO | CGI |
| 01 | 26/07/24 | ACCEPTED FOR CONSTRUCTION | MMA | CBO | DLO |
| 00 | 07/06/24 | ISSUE FOR REVIEW | MMA | CBO | DLO |

ROSETTI MARINO

# CROSSWIND

DWG TYTLE:

## 1"-HY-173-03HSS-N

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK

SCALE N.A.

DRAWN SPS | CHECKED CBO | APPROVED CGI | DATE 29/09/25

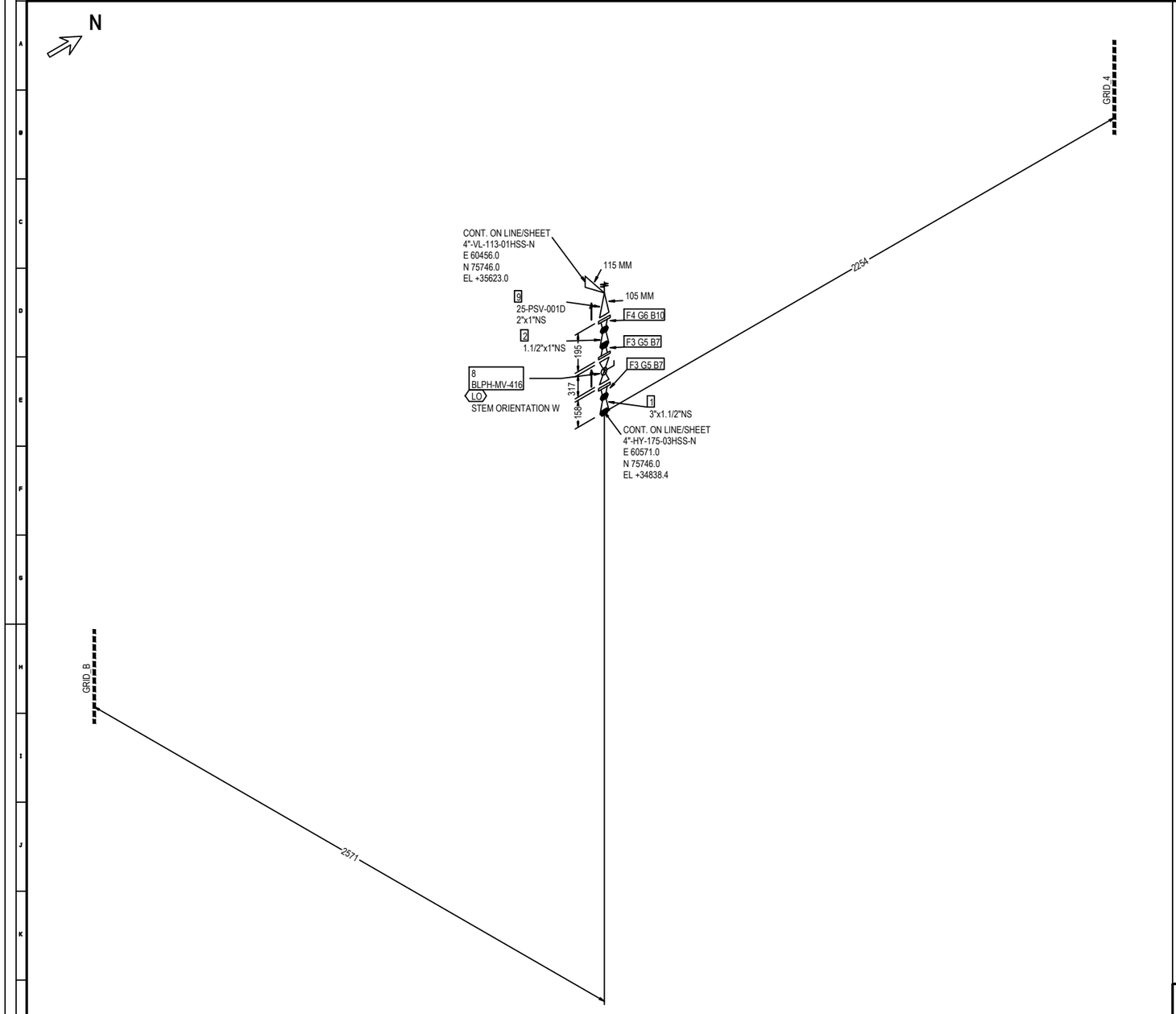
SIZE: A3

DRAWING NO. 123A90-DDL-PP-DI-71000-078

SHEET 2/2

REV. 02

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FABRICATION MATERIALS

| PT NO | COMPONENT DESCRIPTION | N.S. | ITEM CODE | Q.TY | WEIGHT |
|---|---|---|---|---|---|
| 1 | Reducer Concentric ASME B16.9 BW 3,05x3,68 WRS ASTM A403 Gr.WP316/316L | 3 x 1.1/2 | REC0SS0128031H | 1 | 0.48 |
| 2 | Reducer Concentric ASME B16.9 BW 3,68x3,38 WRS ASTM A403 Gr.WP316/316L | 1.1/2 x 1 | REC0SS03191H01 | 1 | 0.26 |
| 3 | Flange WN ASME B16.5 300LB RF 3,68 FRG ASTM A182 Gr.F316/316L | 1.1/2 | FLW0SS03481H00 | 2 | 6.50 |
| 4 | Flange WN ASME B16.5 300LB RF 3,38 FRG ASTM A182 Gr.F316/316L | 1 | FLW0SS03270100 | 1 | 1.83 |
| | | | TOTAL FABRICATION WEIGHT | | 9.07 |

ERECTION MATERIALS

| PT NO | COMPONENT DESCRIPTION | N.S. | ITEM CODE | Q.TY | WEIGHT |
|---|---|---|---|---|---|
| 5 | Gasket Spiral Wound Thk. 3.2 mm ASME B16.20 300LB RF GSK AISI 316 + GRAPHITE c/w INNER RING | 1.1/2 | GSW0GK11221H00 | 2 | 0.22 |
| 6 | Gasket Spiral Wound Thk. 3.2 mm ASME B16.20 300LB RF GSK AISI 316 + GRAPHITE c/w INNER RING | 1 | GSW0GK11210100 | 1 | 0.07 |
| 7 | 95 Stud Bolt + 2 Heavy Nuts ASME B1.1 ASTM A193 Gr.B7 - A194 Gr.2H Hot dip galvanized | 3/4 | SB20BO23540400 | 8 | 3.12 |
| 10 | 100 Stud Bolt + 2 Heavy Nuts ASME B1.1 ASTM A193 Gr.B7 - A194 Gr.2H Hot dip galvanized | 5/8 | SB20BO00680300 | 4 | 1.04 |
| 8 | Double Block & Bleed Valve API 6D FLG 300LB RF DA03C01RFH | 1.1/2 | VLBBNN07201H00 | 1 | 40.00 |
| | INSTRUMENTS | | | | |
| 9 | Pressure Safety Valve FLG.300/150#RF 25-PSV-001D | 2 x 1 | | 1 | 15.00 |
| | | | TOTAL ERECTION WEIGHT | | 59.45 |
| | | | TOTAL WEIGHT | | 68.52 |

| REFERENCE DOCUMENTS | |
|---|---|
| 123A90-DDL-PP-RE-70001 | STRESS ANALYSIS REPORT |
| 123A90-DDL-PR-PID-80018 | P&ID |
| 123A90-DDL-MAT-SP-60003 | INSULATION SPECIFICATION |
| 123A90-DDL-MAT-SP-60006 | COATING & PAINTING SPEC. |
| 123A90-DDL-PP-00-72000 | PIPING SUPPORT BOOK |
| 123A90-DDL-PP-SP-70029 | PIPING MATERIAL CLASS |

SYMBOLS LEGEND:
BUTT WELD · THREADED · HEAT TRACING
SOCKET · PIPE SUPPORT · INSULATED

| NDT EXAMINATION | | | |
|---|---|---|---|
| NDT TYPE | % | NDT TYPE | % |
| RT | 100 | VT | 100 |
| INSPECTION CATEGORY | 1 | MT/PT | 100Ratio |
| TESTING | | | |
| TEST FLUID | | TEST PRESS.(barg) | |
| Water | | 60 | |
| PROCESS LINE DATA | | | |
| DESIGN TEMP. (°C) | | DESIGN PRESS.(barg) | |
| -29 | 80 | | 40 |

| INSULATION & PAINTING | | |
|---|---|---|
| INS. TYPE | INS. THK. | INS. SURF. (m²) |
| N | | |
| PAINT SYS. | BASE RAL | PAINT. SURF. (m²) |
| 6A | RAL 9002 | 0.14 |
| HEAT TRACING | | |
| - | | |
| LINE DATA | | |
| STRESS SYS. | PED CAT. | PWHT |
| 01 | II | No |

| Revision Number | Date | Description | Prepared by | Checked by | Approved by |
|---|---|---|---|---|---|
| 02 | 29/09/25 | AS-BUILT (ASB) | SPS | CBO | CGI |
| 01 | 12/07/24 | ACCEPTED FOR CONSTRUCTION | MMA | CBO | DLO |
| 00 | 07/06/24 | ISSUE FOR REVIEW | MMA | CBO | DLO |

ROSETTI MARINO

# CROSSWIND

DWG TYTLE:

## 1-1/2"-HY-174-03HSS-N

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK

SCALE N.A.

DRAWN SPS | CHECKED CBO | APPROVED CGI | DATE 29/09/25

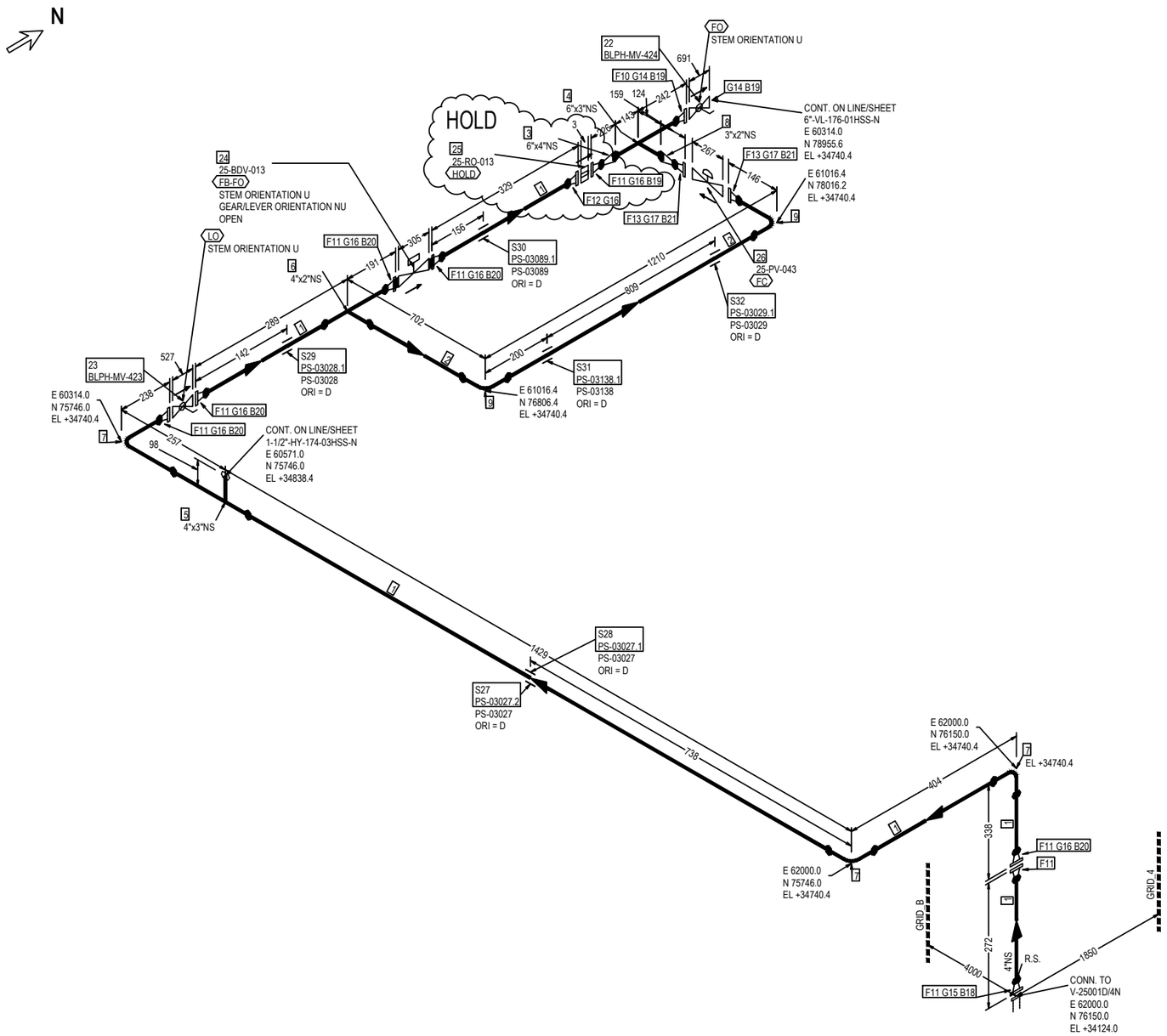
SIZE: A3

DRAWING NO. 123A90-DDL-PP-DI-71000_079

SHEET 1/1

REV. 02

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FABRICATION MATERIALS

| PT NO | COMPONENT DESCRIPTION | N.S. | ITEM CODE | Q.TY | WEIGHT |
|---|---|---|---|---|---|
| 1 | Pipe ASME B36.19M PE 3,05 SML ASTM A312 Gr.TP316/316L | 4 | PIPESS00560400 | 1727MM | 14.68 |
| 2 | Pipe ASME B36.19M PE 2,77 SML ASTM A312 Gr.TP316/316L | 2 | PIPESS00540200 | 1595MM | 6.38 |
| 3 | Reducer Concentric ASME B16.9 BW 7,11x3,05 WRS ASTM A403 Gr.WP316/316L | 6 x 4 | REC0SS03250604 | 1 | 3.56 |
| 4 | Tee Reducing ASME B16.9 BW 7,11x3,05 WRS ASTM A403 Gr.WP316/316L | 6 x 3 | TER0SS03820603 | 1 | 16.24 |
| 5 | Tee Reducing ASME B16.9 BW 3,05x3,05 WRS ASTM A403 Gr.WP316/316L | 4 x 3 | TER0SS01680403 | 1 | 2.66 |
| 6 | Tee Reducing ASME B16.9 BW 3,05x2,77 WRS ASTM A403 Gr.WP316/316L | 4 x 2 | TER0SS03250402 | 1 | 2.57 |
| 7 | 90 Deg Elbow Long Radius ASME B16.9 BW 3,05 WRS ASTM A403 Gr.WP316/316L | 4 | E90RSS01020400 | 3 | 6.03 |
| 8 | Reducer Concentric ASME B16.9 BW 3,05x2,77 WRS ASTM A403 Gr.WP316/316L | 3 x 2 | REC0SS02770302 | 1 | 0.51 |
| 9 | 90 Deg Elbow Long Radius ASME B16.9 BW 2,77 WRS ASTM A403 Gr.WP316/316L | 2 | E90RSS00010200 | 2 | 0.94 |
| 10 | Flange WN ASME B16.5 300LB RF 7,11 FRG ASTM A182 Gr.F316/316L | 6 | FLW0SS03290600 | 1 | 19.29 |
| 11 | Flange WN ASME B16.5 300LB RF 3,05 FRG ASTM A182 Gr.F316/316L | 4 | FLW0SS03370400 | 8 | 89.36 |
| 12 | Flange WN For Jackscrews ASME B16.5 300LB RF 3,05 FRG ASTM A182 Gr.F316/316L | 4 | FLWDSS00030400 | 1 | 11.17 |
| 13 | Flange WN ASME B16.5 300LB RF 2,77 FRG ASTM A182 Gr.F316/316L | 2 | FLW0SS00180200 | 2 | 8.32 |
| | | | | TOTAL FABRICATION WEIGHT | 181.71 |

ERECTION MATERIALS

| PT NO | COMPONENT DESCRIPTION | N.S. | ITEM CODE | Q.TY | WEIGHT |
|---|---|---|---|---|---|
| 14 | Gasket Spiral Wound Thk. 3.2 mm ASME B16.20 300LB RF GSK AISI 316 + GRAPHITE c/w INNER RING | 6 | GSW0GK11260600 | 2 | 0.90 |
| 15 | Insulation Kit Ends as per ASME B16.5 300LB RF | 4 | SPIKNN00700400 | 1 | 0.27 |
| 16 | Gasket Spiral Wound Thk. 3.2 mm ASME B16.20 300LB RF GSK AISI 316 + GRAPHITE c/w INNER RING | 4 | GSW0GK11250400 | 7 | 2.59 |
| 17 | Gasket Spiral Wound Thk. 3.2 mm ASME B16.20 300LB RF GSK AISI 316 + GRAPHITE c/w INNER RING | 2 | GSW0GK11230200 | 2 | 0.26 |
| 18 | 130 Stud Bolt + 2 Heavy Nuts ASME B1.1 ASTM A193 Gr.B7 - A194 Gr.2H Hot dip galvanized | 3/4 | SB20BO19820400 | 8 | 3.84 |
| 19 | 125 Stud Bolt + 2 Heavy Nuts ASME B1.1 ASTM A193 Gr.B7 - A194 Gr.2H Hot dip galvanized | 3/4 | SB20BO01660400 | 32 | 14.72 |
| 20 | 115 Stud Bolt + 2 Heavy Nuts ASME B1.1 ASTM A193 Gr.B7 - A194 Gr.2H Hot dip galvanized | 3/4 | SB20BO01650400 | 40 | 17.60 |
| 21 | 90 Stud Bolt + 2 Heavy Nuts ASME B1.1 ASTM A193 Gr.B7 - A194 Gr.2H Hot dip galvanized | 5/8 | SB20BO04190300 | 16 | 4.00 |
| 22 | Double Block & Bleed Valve API 6D FLG 300LB RF DA03C01RFH | 6 | VLBBNN07240600 | 1 | 350.00 |
| 23 | Double Block & Bleed Valve API 6D FLG 300LB RF DA03C01RFH | 4 | VLBBNN07230400 | 1 | 170.00 |
| | INSTRUMENTS | | | | |
| 24 | ON/OFF Ball Actuator Valve - 300#RF Flanged 25-BDV-013 | 4 | | 1 | 169.00 |
| 25 | Restriction Orifice 300#RF 25-RO-013 | 4 | | 1 | 1.00 |
| 26 | Control Valve - FLG 300 #RF 25-PV-043 | 2 | | 1 | 41.00 |
| | SUPPORTS | | | | |
| 27 | /PS-03027.2 | 4 | | 1 | 0.06 |
| 28 | /PS-03027.1 | 4 | | 1 | 0.06 |
| 29 | /PS-03028.1 | 4 | | 1 | 0.67 |
| 30 | /PS-03089.1 | 4 | | 1 | 0.67 |
| 31 | /PS-03138.1 | 2 | | 1 | 0.33 |
| 32 | /PS-03029.1 | 2 | | 1 | 0.33 |
| | | | | TOTAL ERECTION WEIGHT | 777.30 |
| | | | | TOTAL WEIGHT | 959.01 |

HOLD

| REFERENCE DOCUMENTS | | NDT EXAMINATION | | | | INSULATION & PAINTING | | | Revision Number | Date | Description | Prepared by | Checked by | Approved by |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 123A90-DDL-PP-RE-70001 | STRESS ANALYSIS REPORT | NDT TYPE | % | NDT TYPE | % | INS. TYPE | INS. THK. | INS. SURF. (m²) | | | | | | |
| 123A90-DDL-PR-PID-80018 | P&ID | RT | 100 | VT | 100 | N | | | | | | | | |
| 123A90-DDL-MAT-SP-60003 | INSULATION SPECIFICATION | INSPECTION CATEGORY | 1 | MT/PT | 100Ratio | PAINT SYS. | BASE RAL | PAINT. SURF. (m²) | | | | | | |
| 123A90-DDL-MAT-SP-60006 | COATING & PAINTING SPEC. | TESTING | | | | 6A | RAL 9002 | 2.65 | | | | | | |
| 123A90-DDL-PP-00-72000 | PIPING SUPPORT BOOK | TEST FLUID | | TEST PRESS. (barg) | | HEAT TRACING | | | | | | | | |
| 123A90-DDL-PP-SP-70029 | PIPING MATERIAL CLASS | Water | | 60 | | - | | | 02 | 29/09/25 | AS-BUILT (ASB) | SPS | CBO | CGI |
| SYMBOLS LEGEND: | | PROCESS LINE DATA | | | | LINE DATA | | | 01 | 12/07/24 | ACCEPTED FOR CONSTRUCTION | MMA | CBO | DLO |
| BUTT WELD THREADED HEAT TRACING | | DESIGN TEMP. (°C) | | DESIGN PRESS. (barg) | | STRESS SYS. | PED CAT. | PWHT | 00 | 07/06/24 | ISSUE FOR REVIEW | MMA | CBO | DLO |
| SOCKET PIPE SUPPORT INSULATED | | -29 | 80 | | 40 | 01 | III | No | | | | | | |

ROSETTI MARINO

CROSSWIND

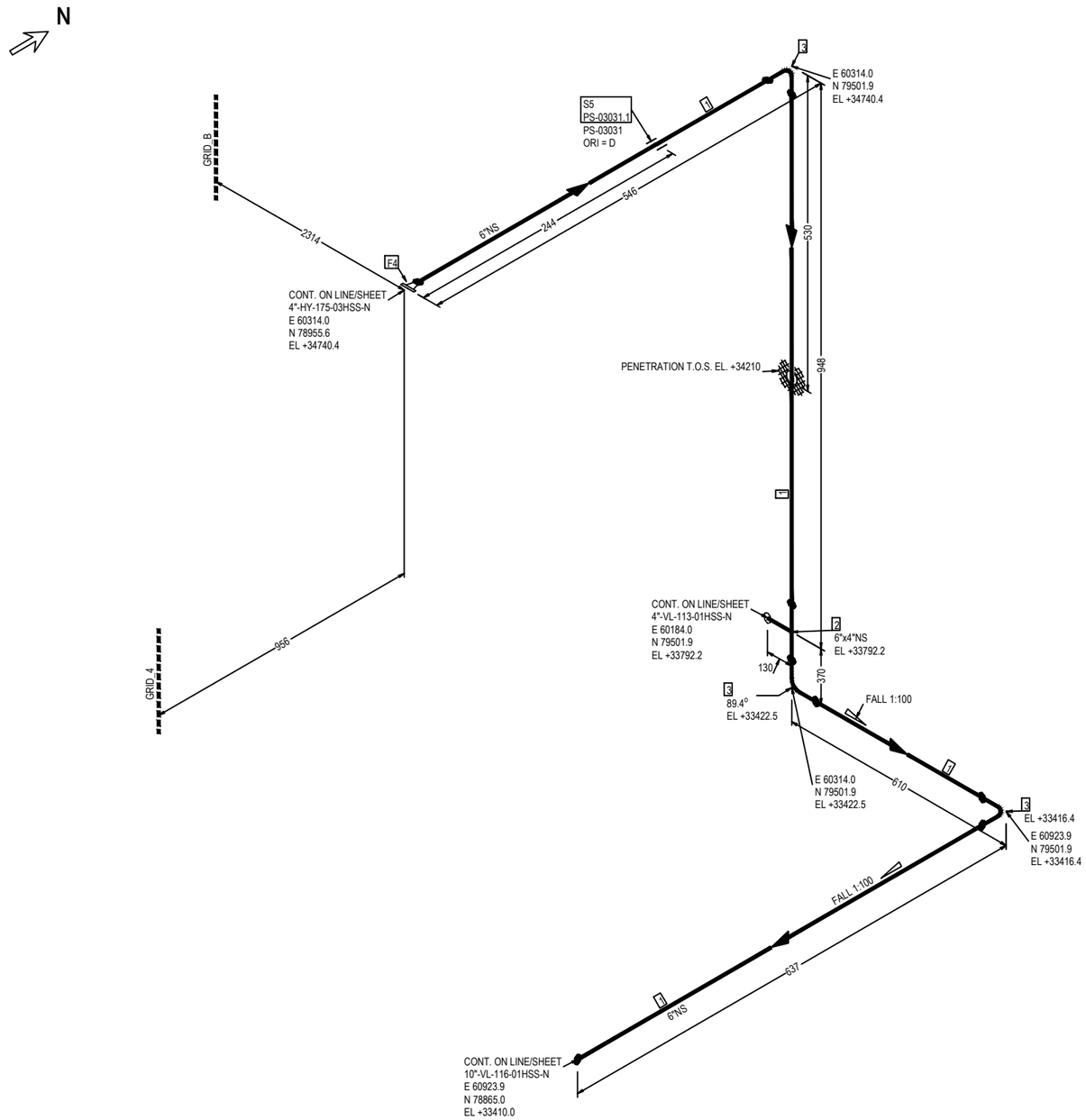
DWG TYTLE:

# 4"-HY-175-03HSS-N

| CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK | | | SCALE N.A. |
|---|---|---|---|
| DRAWN SPS | CHECKED CBO | APPROVED CGI | DATE 29/09/25 |

| SIZE: | DRAWING NO. | SHEET | REV. |
|---|---|---|---|
| A3 | 123A90-DDL-PP-DI-71000_080 | 1/1 | 02 |

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FABRICATION MATERIALS

| PT NO | COMPONENT DESCRIPTION | N.S. | ITEM CODE | Q.TY | WEIGHT |
|---|---|---|---|---|---|
| 1 | Pipe ASME B36.19M PE 3,4 SML ASTM A312 Gr.TP316/316L | 6 | PIPESS00570600 | 1356MM | 18.98 |
| 2 | Tee Reducing ASME B16.9 BW 3,4x3,05 WRS ASTM A403 Gr.WP316/316L | 6 x 4 | TER0SS00170604 | 1 | 7.77 |
| 3 | 90 Deg Elbow Long Radius ASME B16.9 BW 3,4 WRS ASTM A403 Gr.WP316/316L | 6 | E90RSS01030600 | 3 | 14.82 |
| 4 | Flange WN ASME B16.5 300LB RF 3,4 FRG ASTM A182 Gr.F316/316L | 6 | FLW0SS00530600 | 1 | 19.29 |
| | | | TOTAL FABRICATION WEIGHT | | 60.86 |

ERECTION MATERIALS

| PT NO | COMPONENT DESCRIPTION | N.S. | ITEM CODE | Q.TY | WEIGHT |
|---|---|---|---|---|---|
| | SUPPORTS | | | | |
| 5 | /PS-03031.1 | 6 | | 1 | 1.42 |
| | | | TOTAL ERECTION WEIGHT | | 1.42 |
| | | | TOTAL WEIGHT | | 62.28 |

| REFERENCE DOCUMENTS | | NDT EXAMINATION | | | | INSULATION & PAINTING | | |
|---|---|---|---|---|---|---|---|---|
| 123A90-DDL-PP-RE-70001 | STRESS ANALYSIS REPORT | NDT TYPE | % | NDT TYPE | % | INS. TYPE | INS. THK. | INS. SURF. (m²) |
| 123A90-DDL-PR-PID-80018 | P&ID | RT | 100 | VT | 100 | N | | |
| 123A90-DDL-MAT-SP-60003 | INSULATION SPECIFICATION | INSPECTION CATEGORY | 1 | MT/PT | 100Ratio | PAINT SYS. | BASE RAL | PAINT. SURF. (m²) |
| 123A90-DDL-MAT-SP-60006 | COATING & PAINTING SPEC. | TESTING | | | | 6A | RAL 9002 | 1.49 |
| 123A90-DDL-PP-00-72000 | PIPING SUPPORT BOOK | TEST FLUID | | TEST PRESS. [barg] | | HEAT TRACING | | |
| 123A90-DDL-PP-SP-70029 | PIPING MATERIAL CLASS | Water | | 5.25 | | - | | |
| SYMBOLS LEGEND: | | PROCESS LINE DATA | | | | LINE DATA | | |
| BUTT WELD THREADED HEAT TRACING | | DESIGN TEMP. [°C] | | DESIGN PRESS. [barg] | | STRESS SYS. | PED CAT. | PWHT |
| SOCKET PIPE SUPPORT INSULATED | | -29 | 100 | | 3.5 | 01 | II | No |

| Revision Number | Date | Description | Prepared by | Checked by | Approved by |
|---|---|---|---|---|---|
| 02 | 29/09/25 | AS-BUILT (ASB) | SPS | CBO | CGI |
| 01 | 12/07/24 | ACCEPTED FOR CONSTRUCTION | MMA | CBO | DLO |
| 00 | 07/06/24 | ISSUE FOR REVIEW | MMA | CBO | DLO |

ROSETTI MARINO

# CROSSWIND

DWG TYTLE:

## 6"-VL-176-01HSS-N

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK

SCALE N.A.

DRAWN SPS | CHECKED CBO | APPROVED CGI | DATE 29/09/25

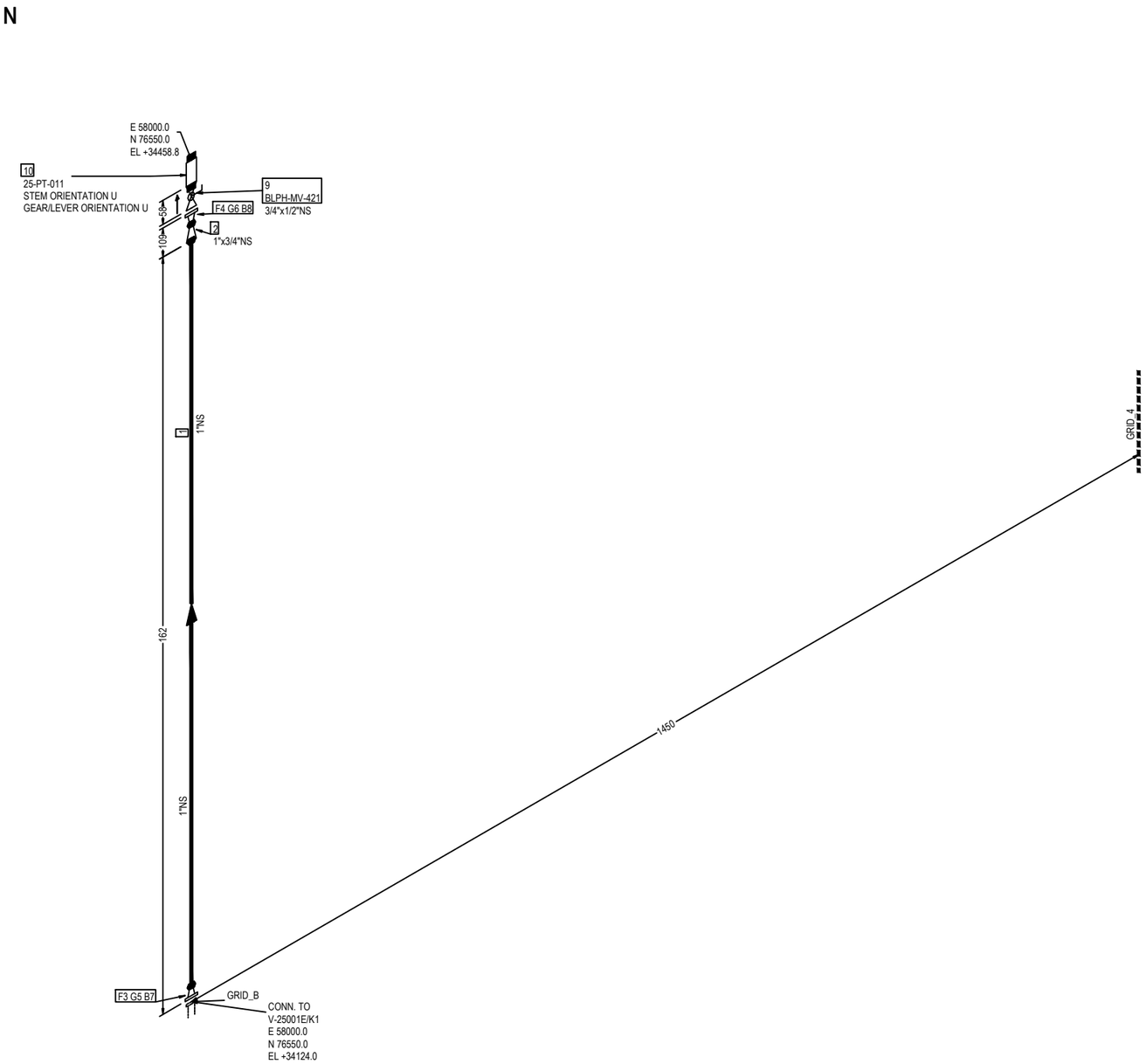
SIZE: A3

DRAWING NO. 123A90-DDL-PP-DI-71000_081

SHEET 1/1

REV. 02

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FABRICATION MATERIALS

| PT NO | COMPONENT DESCRIPTION | N.S. | ITEM CODE | Q.TY | WEIGHT |
|---|---|---|---|---|---|
| 1 | Pipe ASME B36.19M PE 3,38 SML ASTM A312 Gr.TP316/316L | 1 | PIPESS00480100 | 100MM | 0.25 |
| 2 | Reducer Concentric ASME B16.9 BW 3,38x2,87 WRS ASTM A403 Gr.WP316/316L | 1 x 3/4 | REC0SS0120013Q | 1 | 0.14 |
| 3 | Flange WN ASME B16.5 300LB RF 3,38 FRG ASTM A182 Gr.F316/316L | 1 | FLW0SS03270100 | 1 | 1.83 |
| 4 | Flange WN ASME B16.5 300LB RF 2,87 FRG ASTM A182 Gr.F316/316L | 3/4 | FLW0SS01033Q00 | 1 | 1.42 |
| | | | TOTAL FABRICATION WEIGHT | | 3.64 |

ERECTION MATERIALS

| PT NO | COMPONENT DESCRIPTION | N.S. | ITEM CODE | Q.TY | WEIGHT |
|---|---|---|---|---|---|
| 5 | Insulation Kit Ends as per ASME B16.5 300LB RF | 1 | SPIKNN01420100 | 1 | 0.07 |
| 6 | Gasket Spiral Wound Thk. 3.2 mm ASME B16.20 300LB RF GSK AISI 316 + GRAPHITE c/w INNER RING | 3/4 | GSW0GK11203Q00 | 1 | 0.07 |
| 7 | 85 Stud Bolt + 2 Heavy Nuts ASME B1.1 ASTM A193 Gr.B7 - A194 Gr.2H Hot dip galvanized | 5/8 | SB20BO00660300 | 4 | 0.96 |
| 8 | 95 Stud Bolt + 2 Heavy Nuts ASME B1.1 ASTM A193 Gr.B7 - A194 Gr.2H Hot dip galvanized | 5/8 | SB20BO00670300 | 4 | 1.00 |
| 9 | Monoflange Double Block & Bleed Valve API 6D FLG x THRD-F NPT 300LB RF MD03C02YH | 3/4 x 1/2 | VLBMNN00013Q0H | 1 | 5.80 |
| | INSTRUMENTS | | | | |
| 10 | Pressure Transmitter - Online 25-PT-011 | 1/2 | | 1 | --- |
| | | | TOTAL ERECTION WEIGHT | | 7.90 |
| | | | TOTAL WEIGHT | | 11.54 |

| REFERENCE DOCUMENTS | |
|---|---|
| 123A90-DDL-PP-RE-70001 | STRESS ANALYSIS REPORT |
| 123A90-DDL-PR-PID-80019 | P&ID |
| 123A90-DDL-MAT-SP-60003 | INSULATION SPECIFICATION |
| 123A90-DDL-MAT-SP-60006 | COATING & PAINTING SPEC. |
| 123A90-DDL-PP-00-72000 | PIPING SUPPORT BOOK |
| 123A90-DDL-PP-SP-70029 | PIPING MATERIAL CLASS |

SYMBOLS LEGEND:
BUTT WELD · THREADED · HEAT TRACING · SOCKET · PIPE SUPPORT · INSULATED

| NDT EXAMINATION | | | |
|---|---|---|---|
| NDT TYPE | % | NDT TYPE | % |
| RT | 100 | VT | 100 |
| INSPECTION CATEGORY | 1 | MT/PT | 100 |
| TESTING | | | |
| TEST FLUID | | TEST PRESS. [barg] | |
| Water | | 60 | |
| PROCESS LINE DATA | | | |
| DESIGN TEMP. [°C] | | DESIGN PRESS. [barg] | |
| -29 | 80 | | 40 |

| INSULATION & PAINTING | | |
|---|---|---|
| INS. TYPE | INS. THK. | INS. SURF. [m²] |
| N | | |
| PAINT SYS. | BASE RAL | PAINT. SURF. [m²] |
| 6A | RAL 9002 | 0.03 |
| HEAT TRACING | | |
| - | | |
| LINE DATA | | |
| STRESS SYS. | PED CAT. | PWHT |
| - | II | No |

| Revision Number | Date | Description | Prepared by | Checked by | Approved by |
|---|---|---|---|---|---|
| 02 | 29/09/25 | AS-BUILT (ASB) | SPS | CBO | CGI |
| 01 | 26/07/24 | ACCEPTED FOR CONSTRUCTION | MMA | CBO | DLO |
| 00 | 07/06/24 | ISSUE FOR REVIEW | MMA | CBO | DLO |

ROSETTI MARINO

# CROSSWIND

DWG TYTLE:

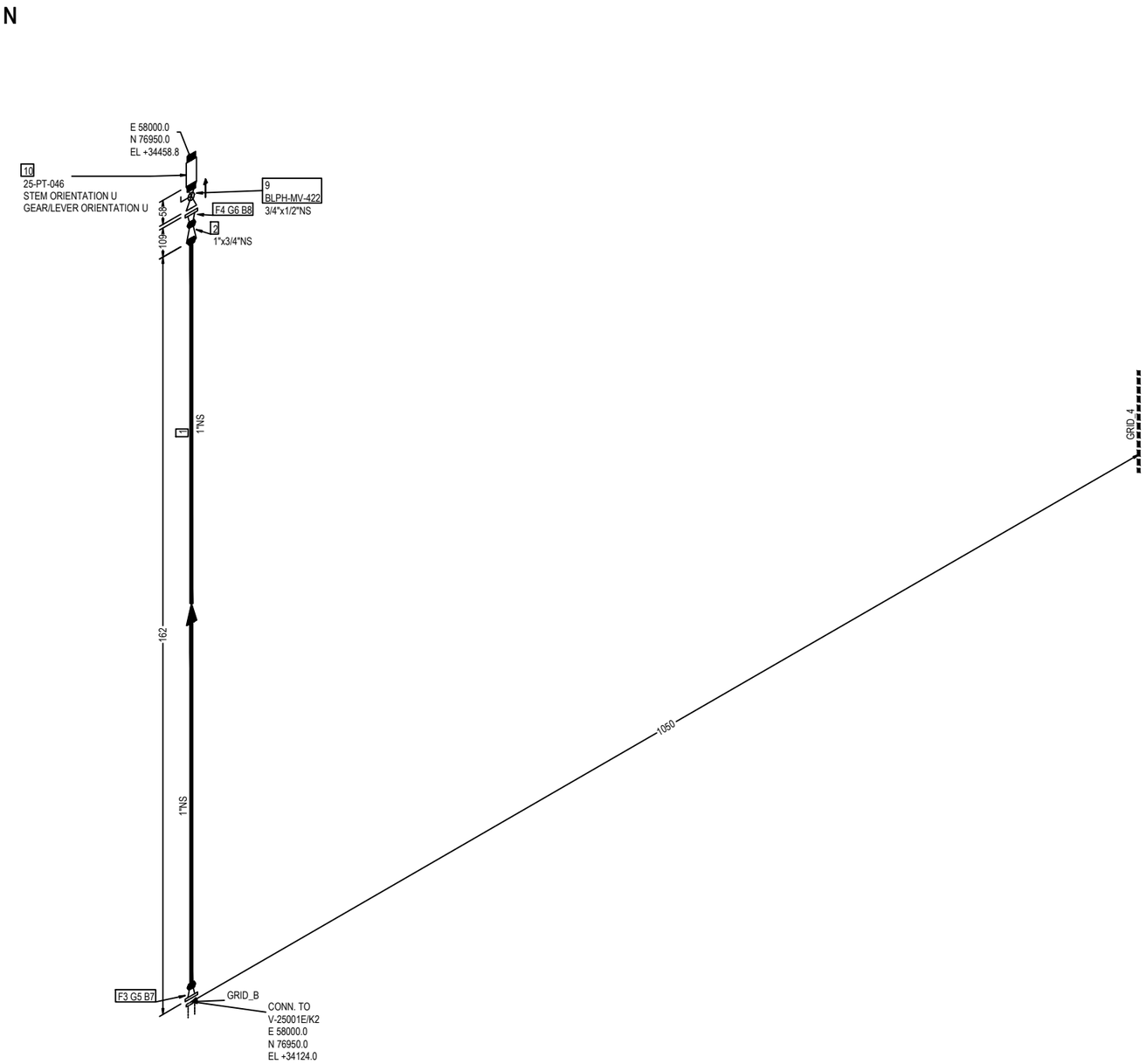
## 1"-HY-178-03HSS-N

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK | SCALE N.A.

DRAWN SPS | CHECKED CBO | APPROVED CGI | DATE 29/09/25

SIZE: A3 | DRAWING NO. 123A90-DDL-PP-DI-71000-082 | SHEET 1/2 | REV. 02

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FABRICATION MATERIALS

| PT NO | COMPONENT DESCRIPTION | N.S. | ITEM CODE | Q.TY | WEIGHT |
|---|---|---|---|---|---|
| 1 | Pipe ASME B36.19M PE 3,38 SML ASTM A312 Gr.TP316/316L | 1 | PIPESS00480100 | 100MM | 0.25 |
| 2 | Reducer Concentric ASME B16.9 BW 3,38x2,87 WRS ASTM A403 Gr.WP316/316L | 1 x 3/4 | REC0SS0120013Q | 1 | 0.14 |
| 3 | Flange WN ASME B16.5 300LB RF 3,38 FRG ASTM A182 Gr.F316/316L | 1 | FLW0SS03270100 | 1 | 1.83 |
| 4 | Flange WN ASME B16.5 300LB RF 2,87 FRG ASTM A182 Gr.F316/316L | 3/4 | FLW0SS01033Q00 | 1 | 1.42 |
| | | | TOTAL FABRICATION WEIGHT | | 3.64 |

ERECTION MATERIALS

| PT NO | COMPONENT DESCRIPTION | N.S. | ITEM CODE | Q.TY | WEIGHT |
|---|---|---|---|---|---|
| 5 | Insulation Kit Ends as per ASME B16.5 300LB RF | 1 | SPIKNN01420100 | 1 | 0.07 |
| 6 | Gasket Spiral Wound Thk. 3.2 mm ASME B16.20 300LB RF GSK AISI 316 + GRAPHITE c/w INNER RING | 3/4 | GSW0GK11203Q00 | 1 | 0.07 |
| 7 | 85 Stud Bolt + 2 Heavy Nuts ASME B1.1 ASTM A193 Gr.B7 - A194 Gr.2H Hot dip galvanized | 5/8 | SB20BO00660300 | 4 | 0.96 |
| 8 | 95 Stud Bolt + 2 Heavy Nuts ASME B1.1 ASTM A193 Gr.B7 - A194 Gr.2H Hot dip galvanized | 5/8 | SB20BO00670300 | 4 | 1.00 |
| 9 | Monoflange Double Block & Bleed Valve API 6D FLG x THRD-F NPT 300LB RF MD03C02YH | 3/4 x 1/2 | VLBMNN00013Q0H | 1 | 5.80 |
| | INSTRUMENTS | | | | |
| 10 | Pressure Transmitter - Online 25-PT-046 | 1/2 | | 1 | --- |
| | | | TOTAL ERECTION WEIGHT | | 7.90 |
| | | | TOTAL WEIGHT | | 11.54 |

| REFERENCE DOCUMENTS | |
|---|---|
| 123A90-DDL-PP-RE-70001 | STRESS ANALYSIS REPORT |
| 123A90-DDL-PR-PID-80019 | P&ID |
| 123A90-DDL-MAT-SP-60003 | INSULATION SPECIFICATION |
| 123A90-DDL-MAT-SP-60006 | COATING & PAINTING SPEC. |
| 123A90-DDL-PP-00-72000 | PIPING SUPPORT BOOK |
| 123A90-DDL-PP-SP-70029 | PIPING MATERIAL CLASS |

SYMBOLS LEGEND:
BUTT WELD · THREADED · HEAT TRACING · SOCKET · PIPE SUPPORT · INSULATED

| NDT EXAMINATION | | | |
|---|---|---|---|
| NDT TYPE | % | NDT TYPE | % |
| RT | 100 | VT | 100 |
| INSPECTION CATEGORY | 1 | MT/PT | 100 |
| TESTING | | | |
| TEST FLUID | | TEST PRESS. [barg] | |
| Water | | 60 | |
| PROCESS LINE DATA | | | |
| DESIGN TEMP. [°C] | | DESIGN PRESS. [barg] | |
| -29 | 80 | | 40 |

| INSULATION & PAINTING | | |
|---|---|---|
| INS. TYPE | INS. THK. | INS. SURF. [m²] |
| N | | |
| PAINT SYS. | BASE RAL | PAINT. SURF. [m²] |
| 6A | RAL 9002 | 0.03 |
| HEAT TRACING | | |
| - | | |
| LINE DATA | | |
| STRESS SYS. | PED CAT. | PWHT |
| - | II | No |

| Revision Number | Date | Description | Prepared by | Checked by | Approved by |
|---|---|---|---|---|---|
| 02 | 29/09/25 | AS-BUILT (ASB) | SPS | CBO | CGI |
| 01 | 26/07/24 | ACCEPTED FOR CONSTRUCTION | MMA | CBO | DLO |
| 00 | 07/06/24 | ISSUE FOR REVIEW | MMA | CBO | DLO |

ROSETTI MARINO

# CROSSWIND

DWG TYTLE:

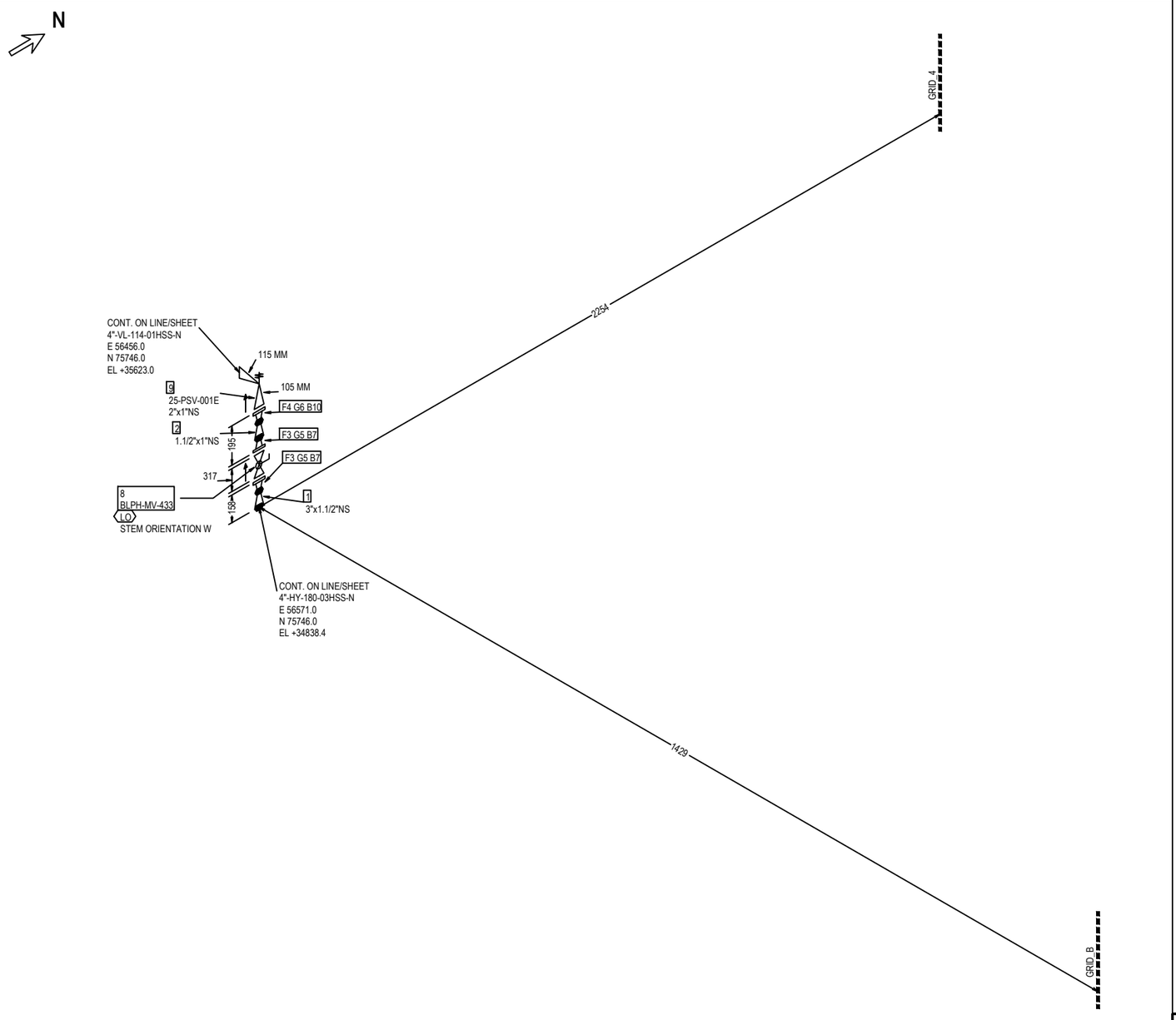
## 1"-HY-178-03HSS-N

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK | SCALE N.A.

DRAWN SPS | CHECKED CBO | APPROVED CGI | DATE 29/09/25

SIZE: A3 | DRAWING NO. 123A90-DDL-PP-DI-71000-082 | SHEET 2/2 | REV. 02

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FABRICATION MATERIALS

| PT NO | COMPONENT DESCRIPTION | N.S. | ITEM CODE | Q.TY | WEIGHT |
|---|---|---|---|---|---|
| 1 | Reducer Concentric ASME B16.9 BW 3,05x3,68 WRS ASTM A403 Gr.WP316/316L | 3 x 1.1/2 | REC0SS0128031H | 1 | 0.48 |
| 2 | Reducer Concentric ASME B16.9 BW 3,68x3,38 WRS ASTM A403 Gr.WP316/316L | 1.1/2 x 1 | REC0SS03191H01 | 1 | 0.26 |
| 3 | Flange WN ASME B16.5 300LB RF 3,68 FRG ASTM A182 Gr.F316/316L | 1.1/2 | FLW0SS03481H00 | 2 | 6.50 |
| 4 | Flange WN ASME B16.5 300LB RF 3,38 FRG ASTM A182 Gr.F316/316L | 1 | FLW0SS03270100 | 1 | 1.83 |
| | | | TOTAL FABRICATION WEIGHT | | 9.07 |

ERECTION MATERIALS

| PT NO | COMPONENT DESCRIPTION | N.S. | ITEM CODE | Q.TY | WEIGHT |
|---|---|---|---|---|---|
| 5 | Gasket Spiral Wound Thk. 3.2 mm ASME B16.20 300LB RF GSK AISI 316 + GRAPHITE c/w INNER RING | 1.1/2 | GSW0GK11221H00 | 2 | 0.22 |
| 6 | Gasket Spiral Wound Thk. 3.2 mm ASME B16.20 300LB RF GSK AISI 316 + GRAPHITE c/w INNER RING | 1 | GSW0GK11210100 | 1 | 0.07 |
| 7 | 95 Stud Bolt + 2 Heavy Nuts ASME B1.1 ASTM A193 Gr.B7 - A194 Gr.2H Hot dip galvanized | 3/4 | SB20BO23540400 | 8 | 3.12 |
| 10 | 100 Stud Bolt + 2 Heavy Nuts ASME B1.1 ASTM A193 Gr.B7 - A194 Gr.2H Hot dip galvanized | 5/8 | SB20BO00680300 | 4 | 1.04 |
| 8 | Double Block & Bleed Valve API 6D FLG 300LB RF DA03C01RFH | 1.1/2 | VLBBNN07201H00 | 1 | 40.00 |
| | INSTRUMENTS | | | | |
| 9 | Pressure Safety Valve FLG.300/150#RF 25-PSV-001E | 2 x 1 | | 1 | 15.00 |
| | | | TOTAL ERECTION WEIGHT | | 59.45 |
| | | | TOTAL WEIGHT | | 68.52 |

| REFERENCE DOCUMENTS | |
|---|---|
| 123A90-DDL-PP-RE-70001 | STRESS ANALYSIS REPORT |
| 123A90-DDL-PR-PID-80019 | P&ID |
| 123A90-DDL-MAT-SP-60003 | INSULATION SPECIFICATION |
| 123A90-DDL-MAT-SP-60006 | COATING & PAINTING SPEC. |
| 123A90-DDL-PP-00-72000 | PIPING SUPPORT BOOK |
| 123A90-DDL-PP-SP-70029 | PIPING MATERIAL CLASS |

SYMBOLS LEGEND:
BUTT WELD · THREADED · HEAT TRACING
SOCKET · PIPE SUPPORT · INSULATED

| NDT EXAMINATION | | | |
|---|---|---|---|
| NDT TYPE | % | NDT TYPE | % |
| RT | 100 | VT | 100 |
| INSPECTION CATEGORY | 1 | MT/PT | 100Ratio |
| TESTING | | | |
| TEST FLUID | | TEST PRESS.(barg) | |
| Water | | 60 | |
| PROCESS LINE DATA | | | |
| DESIGN TEMP. (°C) | | DESIGN PRESS.(barg) | |
| -29 | 80 | | 40 |

| INSULATION & PAINTING | | |
|---|---|---|
| INS. TYPE | INS. THK. | INS. SURF. (m²) |
| N | | |
| PAINT SYS. | BASE RAL | PAINT. SURF. (m²) |
| 6A | RAL 9002 | 0.14 |
| HEAT TRACING | | |
| - | | |
| LINE DATA | | |
| STRESS SYS. | PED CAT. | PWHT |
| 01 | II | No |

| Revision Number | Date | Description | Prepared by | Checked by | Approved by |
|---|---|---|---|---|---|
| 02 | 29/09/25 | AS-BUILT (ASB) | SPS | CBO | CGI |
| 01 | 12/07/24 | ACCEPTED FOR CONSTRUCTION | MMA | CBO | DLO |
| 00 | 07/06/24 | ISSUE FOR REVIEW | MMA | CBO | DLO |

ROSETTI MARINO

# CROSSWIND

DWG TYTLE:

## 1-1/2"-HY-179-03HSS-N

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK

SCALE N.A.

DRAWN SPS | CHECKED CBO | APPROVED CGI | DATE 29/09/25

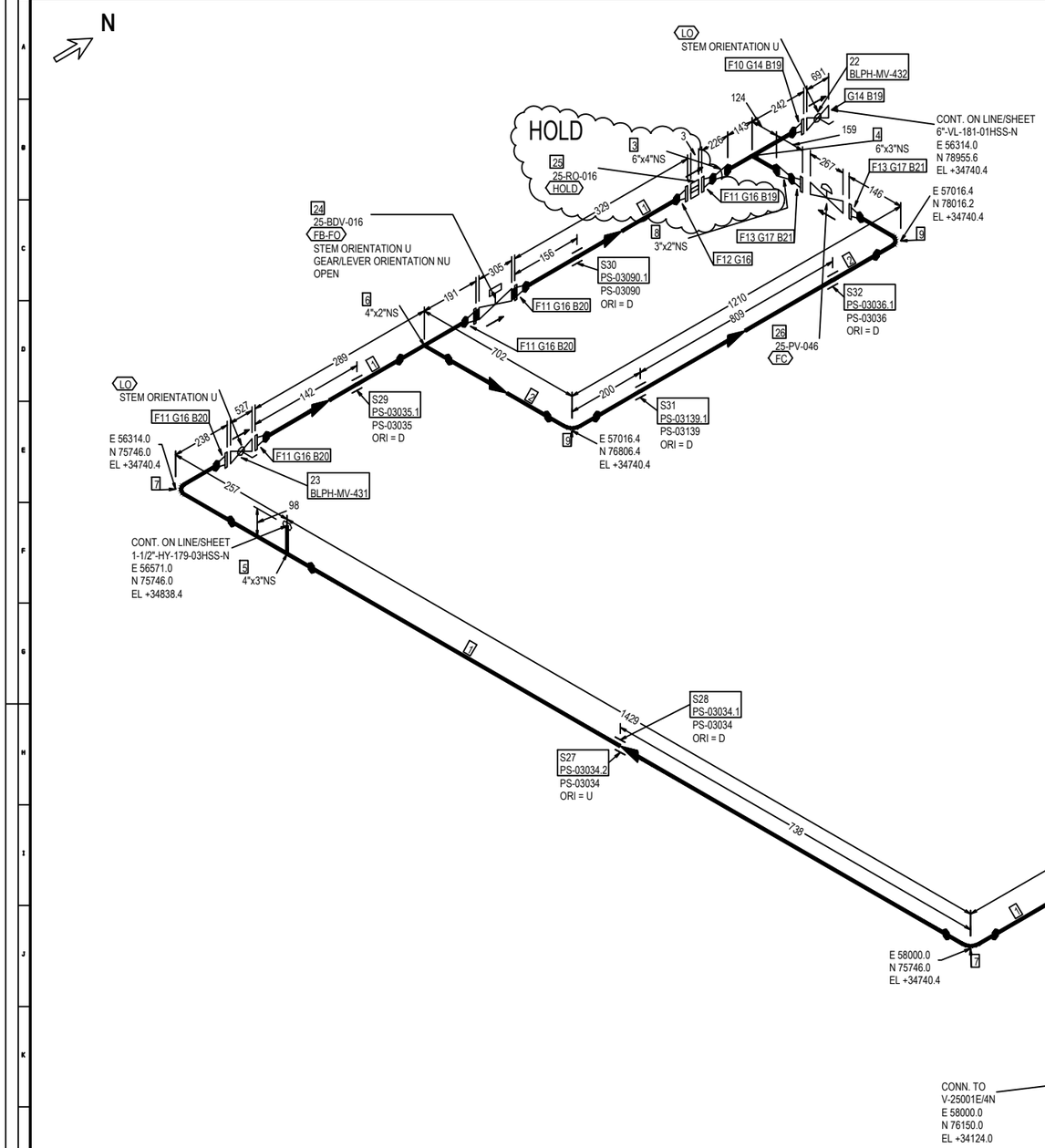
SIZE: A3

DRAWING NO. 123A90-DDL-PP-DI-71000_083

SHEET 1/1

REV. 02

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## FABRICATION MATERIALS

| PT NO | COMPONENT DESCRIPTION | N.S. | ITEM CODE | Q.TY | WEIGHT |
|---|---|---|---|---|---|
| 1 | Pipe ASME B36.19M PE 3,05 SML ASTM A312 Gr.TP316/316L | 4 | PIPESS00560400 | 1727MM | 14.68 |
| 2 | Pipe ASME B36.19M PE 2,77 SML ASTM A312 Gr.TP316/316L | 2 | PIPESS00540200 | 1595MM | 6.38 |
| 3 | Reducer Concentric ASME B16.9 BW 7,11x3,05 WRS ASTM A403 Gr.WP316/316L | 6 x 4 | REC0SS03250604 | 1 | 3.56 |
| 4 | Tee Reducing ASME B16.9 BW 7,11x3,05 WRS ASTM A403 Gr.WP316/316L | 6 x 3 | TER0SS03820603 | 1 | 16.24 |
| 5 | Tee Reducing ASME B16.9 BW 3,05x3,05 WRS ASTM A403 Gr.WP316/316L | 4 x 3 | TER0SS01680403 | 1 | 2.66 |
| 6 | Tee Reducing ASME B16.9 BW 3,05x2,77 WRS ASTM A403 Gr.WP316/316L | 4 x 2 | TER0SS03250402 | 1 | 2.57 |
| 7 | 90 Deg Elbow Long Radius ASME B16.9 BW 3,05 WRS ASTM A403 Gr.WP316/316L | 4 | E90RSS01020400 | 3 | 6.03 |
| 8 | Reducer Concentric ASME B16.9 BW 3,05x2,77 WRS ASTM A403 Gr.WP316/316L | 3 x 2 | REC0SS02770302 | 1 | 0.51 |
| 9 | 90 Deg Elbow Long Radius ASME B16.9 BW 2,77 WRS ASTM A403 Gr.WP316/316L | 2 | E90RSS00010200 | 2 | 0.94 |
| 10 | Flange WN ASME B16.5 300LB RF 7,11 FRG ASTM A182 Gr.F316/316L | 6 | FLW0SS03290600 | 1 | 19.29 |
| 11 | Flange WN ASME B16.5 300LB RF 3,05 FRG ASTM A182 Gr.F316/316L | 4 | FLW0SS03370400 | 8 | 89.36 |
| 12 | Flange WN For Jackscrews ASME B16.5 300LB RF 3,05 FRG ASTM A182 Gr.F316/316L | 4 | FLWDSS00030400 | 1 | 11.17 |
| 13 | Flange WN ASME B16.5 300LB RF 2,77 FRG ASTM A182 Gr.F316/316L | 2 | FLW0SS00180200 | 2 | 8.32 |
| | | | TOTAL FABRICATION WEIGHT | | 181.71 |

## ERECTION MATERIALS

| PT NO | COMPONENT DESCRIPTION | N.S. | ITEM CODE | Q.TY | WEIGHT |
|---|---|---|---|---|---|
| 14 | Gasket Spiral Wound Thk. 3.2 mm ASME B16.20 300LB RF GSK AISI 316 + GRAPHITE c/w INNER RING | 6 | GSW0GK11260600 | 2 | 0.90 |
| 15 | Insulation Kit Ends as per ASME B16.5 300LB RF | 4 | SPIKNN00700400 | 1 | 0.27 |
| 16 | Gasket Spiral Wound Thk. 3.2 mm ASME B16.20 300LB RF GSK AISI 316 + GRAPHITE c/w INNER RING | 4 | GSW0GK11250400 | 7 | 2.59 |
| 17 | Gasket Spiral Wound Thk. 3.2 mm ASME B16.20 300LB RF GSK AISI 316 + GRAPHITE c/w INNER RING | 2 | GSW0GK11230200 | 2 | 0.26 |
| 18 | 130 Stud Bolt + 2 Heavy Nuts ASME B1.1 ASTM A193 Gr.B7 - A194 Gr.2H Hot dip galvanized | 3/4 | SB20BO19820400 | 8 | 3.84 |
| 19 | 125 Stud Bolt + 2 Heavy Nuts ASME B1.1 ASTM A193 Gr.B7 - A194 Gr.2H Hot dip galvanized | 3/4 | SB20BO01660400 | 32 | 14.72 |
| 20 | 115 Stud Bolt + 2 Heavy Nuts ASME B1.1 ASTM A193 Gr.B7 - A194 Gr.2H Hot dip galvanized | 3/4 | SB20BO01650400 | 40 | 17.60 |
| 21 | 90 Stud Bolt + 2 Heavy Nuts ASME B1.1 ASTM A193 Gr.B7 - A194 Gr.2H Hot dip galvanized | 5/8 | SB20BO04190300 | 16 | 4.00 |
| 22 | Double Block & Bleed Valve API 6D FLG 300LB RF DA03C01RFH | 6 | VLBBNN07240600 | 1 | 350.00 |
| 23 | Double Block & Bleed Valve API 6D FLG 300LB RF DA03C01RFH | 4 | VLBBNN07230400 | 1 | 170.00 |
| | **INSTRUMENTS** | | | | |
| 24 | ON/OFF Ball Actuator Valve - 300#RF Flanged 25-BDV-016 | 4 | | 1 | 169.00 |
| 25 | Restriction Orifice 300#RF 25-RO-016 | 4 | | 1 | 1.00 |
| 26 | Control Valve - FLG 300 #RF 25-PV-046 | 2 | | 1 | 41.00 |
| | **SUPPORTS** | | | | |
| 27 | /PS-03034.2 | 4 | | 1 | 0.06 |
| 28 | /PS-03034.1 | 4 | | 1 | 0.06 |
| 29 | /PS-03035.1 | 4 | | 1 | 0.67 |
| 30 | /PS-03090.1 | 4 | | 1 | 0.67 |
| 31 | /PS-03139.1 | 2 | | 1 | 0.33 |
| 32 | /PS-03036.1 | 2 | | 1 | 0.33 |
| | | | TOTAL ERECTION WEIGHT | | 777.30 |
| | | | TOTAL WEIGHT | | 959.01 |

HOLD

| REFERENCE DOCUMENTS | |
|---|---|
| 123A90-DDL-PP-RE-70001 | STRESS ANALYSIS REPORT |
| 123A90-DDL-PR-PID-80019 | P&ID |
| 123A90-DDL-MAT-SP-60003 | INSULATION SPECIFICATION |
| 123A90-DDL-MAT-SP-60006 | COATING & PAINTING SPEC. |
| 123A90-DDL-PP-00-72000 | PIPING SUPPORT BOOK |
| 123A90-DDL-PP-SP-70029 | PIPING MATERIAL CLASS |

SYMBOLS LEGEND:
BUTT WELD · THREADED · HEAT TRACING · SOCKET · PIPE SUPPORT · INSULATED

| NDT EXAMINATION | | | |
|---|---|---|---|
| NDT TYPE | % | NDT TYPE | % |
| RT | 100 | VT | 100 |
| INSPECTION CATEGORY | 1 | MT/PT | 100Ratio |
| TESTING | | | |
| TEST FLUID | | TEST PRESS.(barg) | |
| Water | | 60 | |
| PROCESS LINE DATA | | | |
| DESIGN TEMP. (°C) | | DESIGN PRESS.(barg) | |
| -29 | 80 | | 40 |

| INSULATION & PAINTING | | |
|---|---|---|
| INS. TYPE | INS. THK. | INS. SURF. (m²) |
| N | | |
| PAINT SYS. | BASE RAL | PAINT. SURF. (m²) |
| 6A | RAL 9002 | 2.69 |
| HEAT TRACING | | |
| - | | |
| LINE DATA | | |
| STRESS SYS. | PED CAT. | PWHT |
| 01 | III | No |

| Revision Number | Date | Description | Prepared by | Checked by | Approved by |
|---|---|---|---|---|---|
| 02 | 29/09/25 | AS-BUILT (ASB) | SPS | CBO | CGI |
| 01 | 12/07/24 | ACCEPTED FOR CONSTRUCTION | MMA | CBO | DLO |
| 00 | 07/06/24 | ISSUE FOR REVIEW | MMA | CBO | DLO |

ROSETTI MARINO

# CROSSWIND

DWG TYTLE:

## 4"-HY-180-03HSS-N

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK

SCALE N.A.

DRAWN SPS | CHECKED CBO | APPROVED CGI | DATE 29/09/25

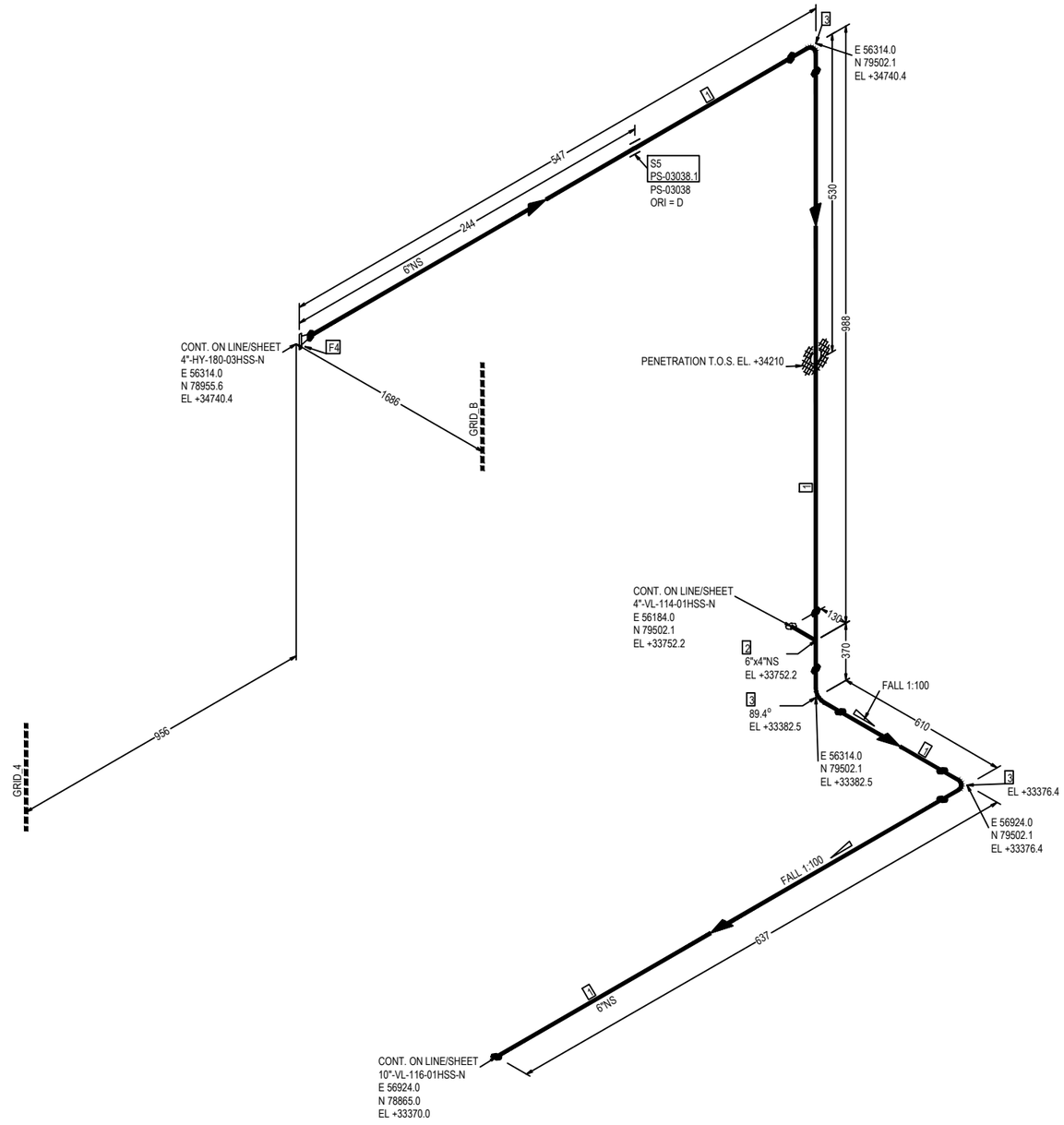
SIZE: A3

DRAWING NO. 123A90-DDL-PP-DI-71000_084

SHEET 1/1

REV. 02

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FABRICATION MATERIALS

| PT NO | COMPONENT DESCRIPTION | N.S. | ITEM CODE | Q.TY | WEIGHT |
|---|---|---|---|---|---|
| 1 | Pipe ASME B36.19M PE 3,4 SML ASTM A312 Gr.TP316/316L | 6 | PIPESS00570600 | 1397MM | 19.56 |
| 2 | Tee Reducing ASME B16.9 BW 3,4x3,05 WRS ASTM A403 Gr.WP316/316L | 6 x 4 | TER0SS00170604 | 1 | 7.77 |
| 3 | 90 Deg Elbow Long Radius ASME B16.9 BW 3,4 WRS ASTM A403 Gr.WP316/316L | 6 | E90RSS01030600 | 3 | 14.82 |
| 4 | Flange WN ASME B16.5 300LB RF 3,4 FRG ASTM A182 Gr.F316/316L | 6 | FLW0SS00530600 | 1 | 19.29 |
| | | | TOTAL FABRICATION WEIGHT | | 61.44 |

ERECTION MATERIALS

| PT NO | COMPONENT DESCRIPTION | N.S. | ITEM CODE | Q.TY | WEIGHT |
|---|---|---|---|---|---|
| | SUPPORTS | | | | |
| 5 | /PS-03038.1 | 6 | | 1 | 1.42 |
| | | | TOTAL ERECTION WEIGHT | | 1.42 |
| | | | TOTAL WEIGHT | | 62.86 |

| REFERENCE DOCUMENTS | |
|---|---|
| 123A90-DDL-PP-RE-70001 | STRESS ANALYSIS REPORT |
| 123A90-DDL-PR-PID-80019 | P&ID |
| 123A90-DDL-MAT-SP-60003 | INSULATION SPECIFICATION |
| 123A90-DDL-MAT-SP-60006 | COATING & PAINTING SPEC. |
| 123A90-DDL-PP-00-72000 | PIPING SUPPORT BOOK |
| 123A90-DDL-PP-SP-70029 | PIPING MATERIAL CLASS |

SYMBOLS LEGEND:
BUTT WELD · THREADED · HEAT TRACING · SOCKET · PIPE SUPPORT · INSULATED

| NDT EXAMINATION | | | |
|---|---|---|---|
| NDT TYPE | % | NDT TYPE | % |
| RT | 100 | VT | 100 |
| INSPECTION CATEGORY | 1 | MT/PT | 100Ratio |

| TESTING | |
|---|---|
| TEST FLUID | TEST PRESS.[barg] |
| Water | 5.25 |

| PROCESS LINE DATA | | | |
|---|---|---|---|
| DESIGN TEMP. [°C] | | DESIGN PRESS.[barg] | |
| -29 | 100 | | 3.5 |

| INSULATION & PAINTING | | |
|---|---|---|
| INS. TYPE | INS. THK. | INS. SURF. [m²] |
| N | | |
| PAINT SYS. | BASE RAL | PAINT. SURF. [m²] |
| 6A | RAL 9002 | 1.51 |

| HEAT TRACING |
|---|
| - |

| LINE DATA | | |
|---|---|---|
| STRESS SYS. | PED CAT. | PWHT |
| 01 | II | No |

| Revision Number | Date | Description | Prepared by | Checked by | Approved by |
|---|---|---|---|---|---|
| 02 | 29/09/25 | AS-BUILT (ASB) | SPS | CBO | CGI |
| 01 | 12/07/24 | ACCEPTED FOR CONSTRUCTION | MMA | CBO | DLO |
| 00 | 07/06/24 | ISSUE FOR REVIEW | MMA | CBO | DLO |

ROSETTI MARINO

# CROSSWIND

DWG TYTLE:

# 6"-VL-181-01HSS-N

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK

SCALE N.A.

DRAWN SPS | CHECKED CBO | APPROVED CGI | DATE 29/09/25

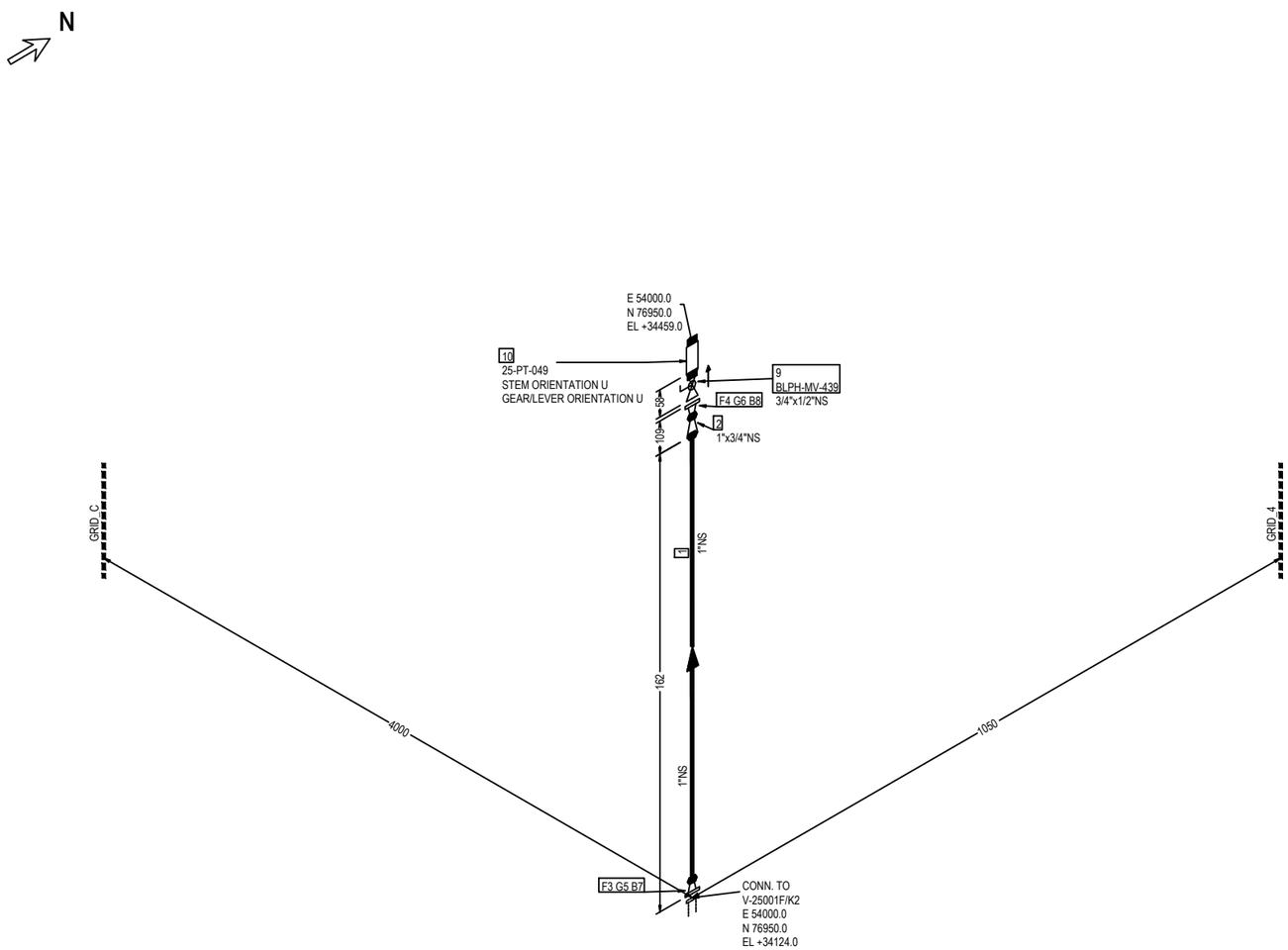
SIZE: A3

DRAWING NO. 123A90-DDL-PP-DI-71000_085

SHEET 1/1

REV. 02

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FABRICATION MATERIALS

| PT NO | COMPONENT DESCRIPTION | N.S. | ITEM CODE | Q.TY | WEIGHT |
|---|---|---|---|---|---|
| 1 | Pipe ASME B36.19M PE 3,38 SML ASTM A312 Gr.TP316/316L | 1 | PIPESS00480100 | 100MM | 0.25 |
| 2 | Reducer Concentric ASME B16.9 BW 3,38x2,87 WRS ASTM A403 Gr.WP316/316L | 1 x 3/4 | REC0SS0120013Q | 1 | 0.14 |
| 3 | Flange WN ASME B16.5 300LB RF 3,38 FRG ASTM A182 Gr.F316/316L | 1 | FLW0SS03270100 | 1 | 1.83 |
| 4 | Flange WN ASME B16.5 300LB RF 2,87 FRG ASTM A182 Gr.F316/316L | 3/4 | FLW0SS01033Q00 | 1 | 1.42 |
| | | | TOTAL FABRICATION WEIGHT | | 3.64 |

ERECTION MATERIALS

| PT NO | COMPONENT DESCRIPTION | N.S. | ITEM CODE | Q.TY | WEIGHT |
|---|---|---|---|---|---|
| 5 | Insulation Kit Ends as per ASME B16.5 300LB RF | 1 | SPIKNN01420100 | 1 | 0.07 |
| 6 | Gasket Spiral Wound Thk. 3.2 mm ASME B16.20 300LB RF GSK AISI 316 + GRAPHITE c/w INNER RING | 3/4 | GSW0GK11203Q00 | 1 | 0.07 |
| 7 | 85 Stud Bolt + 2 Heavy Nuts ASME B1.1 ASTM A193 Gr.B7 - A194 Gr.2H Hot dip galvanized | 5/8 | SB20BO00660300 | 4 | 0.96 |
| 8 | 95 Stud Bolt + 2 Heavy Nuts ASME B1.1 ASTM A193 Gr.B7 - A194 Gr.2H Hot dip galvanized | 5/8 | SB20BO00670300 | 4 | 1.00 |
| 9 | Monoflange Double Block & Bleed Valve API 6D FLG x THRD-F NPT 300LB RF MD03C02YH | 3/4 x 1/2 | VLBMNN00013Q0H | 1 | 5.80 |
| | INSTRUMENTS | | | | |
| 10 | Pressure Transmitter - Online 25-PT-049 | 1/2 | | 1 | --- |
| | | | TOTAL ERECTION WEIGHT | | 7.90 |
| | | | TOTAL WEIGHT | | 11.54 |

| REFERENCE DOCUMENTS | |
|---|---|
| 123A90-DDL-PP-RE-70001 | STRESS ANALYSIS REPORT |
| 123A90-DDL-PR-PID-80020 | P&ID |
| 123A90-DDL-MAT-SP-60003 | INSULATION SPECIFICATION |
| 123A90-DDL-MAT-SP-60006 | COATING & PAINTING SPEC. |
| 123A90-DDL-PP-00-72000 | PIPING SUPPORT BOOK |
| 123A90-DDL-PP-SP-70029 | PIPING MATERIAL CLASS |

SYMBOLS LEGEND:
BUTT WELD · THREADED · HEAT TRACING · SOCKET · PIPE SUPPORT · INSULATED

| NDT EXAMINATION | | | |
|---|---|---|---|
| NDT TYPE | % | NDT TYPE | % |
| RT | 100 | VT | 100 |
| INSPECTION CATEGORY | 1 | MT/PT | 100 |
| TESTING | | | |
| TEST FLUID | | TEST PRESS.(barg) | |
| Water | | 60 | |
| PROCESS LINE DATA | | | |
| DESIGN TEMP. (°C) | | DESIGN PRESS.(barg) | |
| -29 | 80 | | 40 |

| INSULATION & PAINTING | | |
|---|---|---|
| INS. TYPE | INS. THK. | INS. SURF. (m²) |
| N | | |
| PAINT SYS. | BASE RAL | PAINT. SURF. (m²) |
| 6A | RAL 9002 | 0.03 |
| HEAT TRACING | | |
| - | | |
| LINE DATA | | |
| STRESS SYS. | PED CAT. | PWHT |
| - | II | No |

| Revision Number | Date | Description | Prepared by | Checked by | Approved by |
|---|---|---|---|---|---|
| 02 | 29/09/25 | AS-BUILT (ASB) | SPS | CBO | CGI |
| 01 | 26/07/24 | ACCEPTED FOR CONSTRUCTION | MMA | CBO | DLO |
| 00 | 07/06/24 | ISSUE FOR REVIEW | MMA | CBO | DLO |

ROSETTI MARINO

# CROSSWIND

DWG TYTLE:

## 1"-HY-182-03HSS-N

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK

SCALE N.A.

DRAWN SPS | CHECKED CBO | APPROVED CGI | DATE 29/09/25

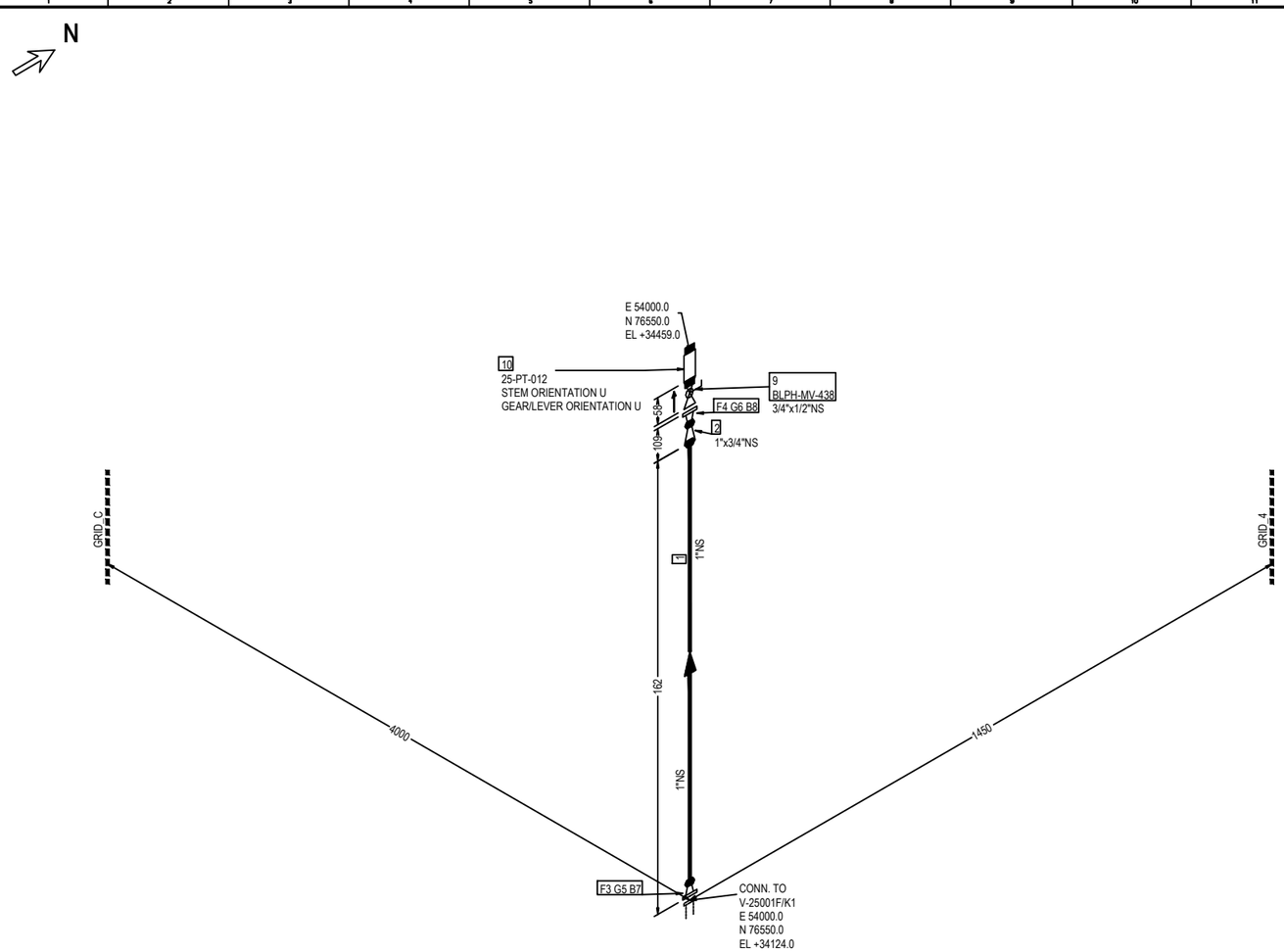
SIZE: A3

DRAWING NO. 123A90-DDL-PP-DI-71000-086

SHEET 1/2

REV. 02

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FABRICATION MATERIALS

| PT NO | COMPONENT DESCRIPTION | N.S. | ITEM CODE | Q.TY | WEIGHT |
|---|---|---|---|---|---|
| 1 | Pipe ASME B36.19M PE 3,38 SML ASTM A312 Gr.TP316/316L | 1 | PIPESS00480100 | 100MM | 0.25 |
| 2 | Reducer Concentric ASME B16.9 BW 3,38x2,87 WRS ASTM A403 Gr.WP316/316L | 1 x 3/4 | REC0SS0120013Q | 1 | 0.14 |
| 3 | Flange WN ASME B16.5 300LB RF 3,38 FRG ASTM A182 Gr.F316/316L | 1 | FLW0SS03270100 | 1 | 1.83 |
| 4 | Flange WN ASME B16.5 300LB RF 2,87 FRG ASTM A182 Gr.F316/316L | 3/4 | FLW0SS01033Q00 | 1 | 1.42 |
| | | | | TOTAL FABRICATION WEIGHT | 3.64 |

ERECTION MATERIALS

| PT NO | COMPONENT DESCRIPTION | N.S. | ITEM CODE | Q.TY | WEIGHT |
|---|---|---|---|---|---|
| 5 | Insulation Kit Ends as per ASME B16.5 300LB RF | 1 | SPIKNN01420100 | 1 | 0.07 |
| 6 | Gasket Spiral Wound Thk. 3.2 mm ASME B16.20 300LB RF GSK AISI 316 + GRAPHITE c/w INNER RING | 3/4 | GSW0GK11203Q00 | 1 | 0.07 |
| 7 | 85 Stud Bolt + 2 Heavy Nuts ASME B1.1 ASTM A193 Gr.B7 - A194 Gr.2H Hot dip galvanized | 5/8 | SB20BO00660300 | 4 | 0.96 |
| 8 | 95 Stud Bolt + 2 Heavy Nuts ASME B1.1 ASTM A193 Gr.B7 - A194 Gr.2H Hot dip galvanized | 5/8 | SB20BO00670300 | 4 | 1.00 |
| 9 | Monoflange Double Block & Bleed Valve API 6D FLG x THRD-F NPT 300LB RF MD03C02YH | 3/4 x 1/2 | VLBMNN00013Q0H | 1 | 5.80 |
| | INSTRUMENTS | | | | |
| 10 | Pressure Transmitter - Online 25-PT-012 | 1/2 | | 1 | --- |
| | | | | TOTAL ERECTION WEIGHT | 7.90 |
| | | | | TOTAL WEIGHT | 11.54 |

| REFERENCE DOCUMENTS | |
|---|---|
| 123A90-DDL-PP-RE-70001 | STRESS ANALYSIS REPORT |
| 123A90-DDL-PR-PID-80020 | P&ID |
| 123A90-DDL-MAT-SP-60003 | INSULATION SPECIFICATION |
| 123A90-DDL-MAT-SP-60006 | COATING & PAINTING SPEC. |
| 123A90-DDL-PP-00-72000 | PIPING SUPPORT BOOK |
| 123A90-DDL-PP-SP-70029 | PIPING MATERIAL CLASS |

SYMBOLS LEGEND:
BUTT WELD, THREADED, HEAT TRACING, SOCKET, PIPE SUPPORT, INSULATED

| NDT EXAMINATION | | | |
|---|---|---|---|
| NDT TYPE | % | NDT TYPE | % |
| RT | 100 | VT | 100 |
| INSPECTION CATEGORY | 1 | MT/PT | 100 |
| TESTING | | | |
| TEST FLUID | | TEST PRESS. (barg) | |
| Water | | 60 | |
| PROCESS LINE DATA | | | |
| DESIGN TEMP. (°C) | | DESIGN PRESS. (barg) | |
| -29 | 80 | | 40 |

| INSULATION & PAINTING | | |
|---|---|---|
| INS. TYPE | INS. THK. | INS. SURF. (m²) |
| N | | |
| PAINT SYS. | BASE RAL | PAINT. SURF. (m²) |
| 6A | RAL 9002 | 0.03 |
| HEAT TRACING | | |
| - | | |
| LINE DATA | | |
| STRESS SYS. | PED CAT. | PWHT |
| - | II | No |

| Revision Number | Date | Description | Prepared by | Checked by | Approved by |
|---|---|---|---|---|---|
| 02 | 29/09/25 | AS-BUILT (ASB) | SPS | CBO | CGI |
| 01 | 26/07/24 | ACCEPTED FOR CONSTRUCTION | MMA | CBO | DLO |
| 00 | 07/06/24 | ISSUE FOR REVIEW | MMA | CBO | DLO |

ROSETTI MARINO

# CROSSWIND

DWG TYTLE:

## 1"-HY-182-03HSS-N

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK

SCALE N.A.

DRAWN SPS | CHECKED CBO | APPROVED CGI | DATE 29/09/25

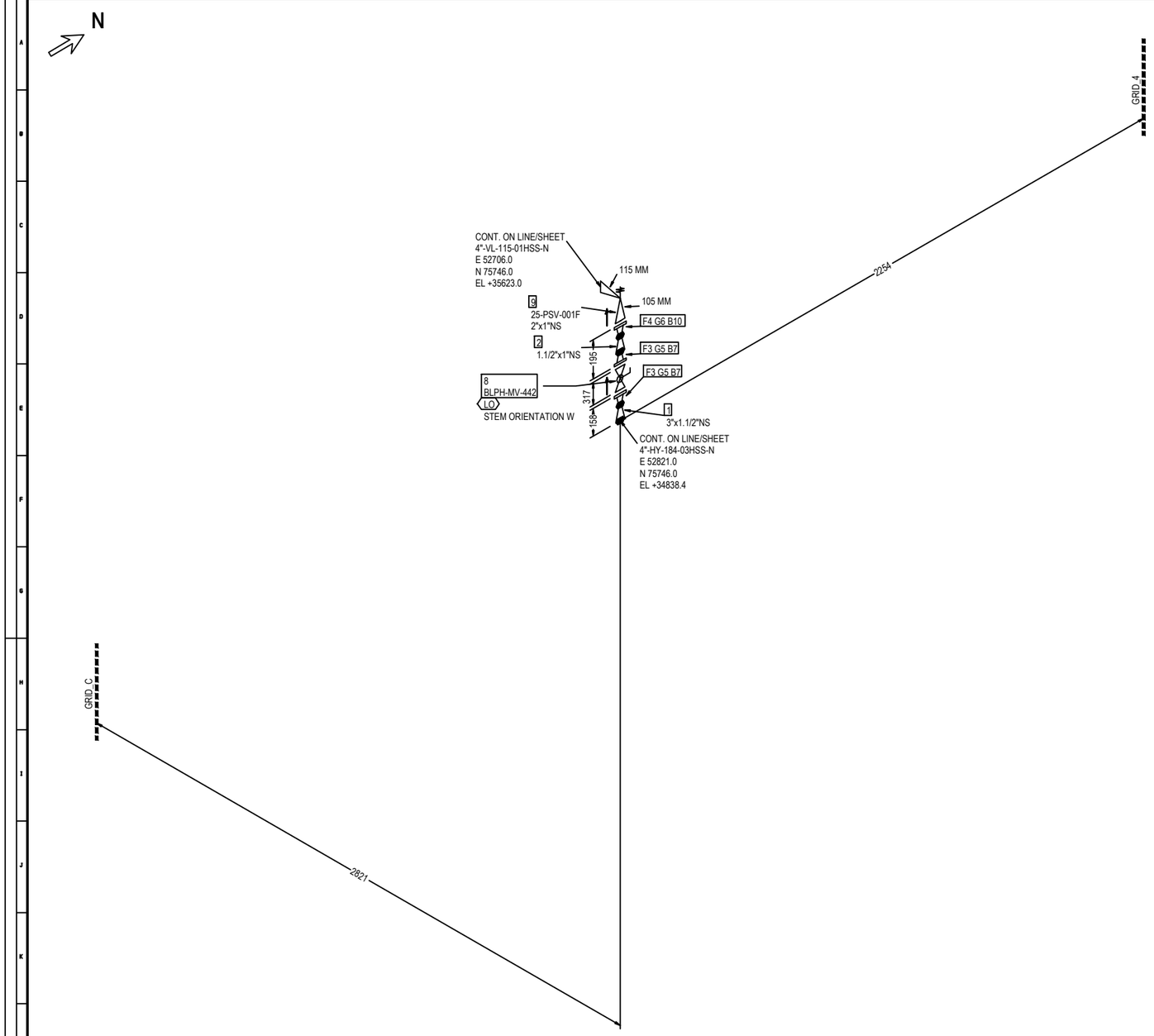
SIZE: A3

DRAWING NO. 123A90-DDL-PP-DI-71000-086

SHEET 2/2

REV. 02

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FABRICATION MATERIALS

| PT NO | COMPONENT DESCRIPTION | N.S. | ITEM CODE | Q.TY | WEIGHT |
|---|---|---|---|---|---|
| 1 | Reducer Concentric ASME B16.9 BW 3,05x3,68 WRS ASTM A403 Gr.WP316/316L | 3 x 1.1/2 | REC0SS0128031H | 1 | 0.48 |
| 2 | Reducer Concentric ASME B16.9 BW 3,68x3,38 WRS ASTM A403 Gr.WP316/316L | 1.1/2 x 1 | REC0SS03191H01 | 1 | 0.26 |
| 3 | Flange WN ASME B16.5 300LB RF 3,68 FRG ASTM A182 Gr.F316/316L | 1.1/2 | FLW0SS03481H00 | 2 | 6.50 |
| 4 | Flange WN ASME B16.5 300LB RF 3,38 FRG ASTM A182 Gr.F316/316L | 1 | FLW0SS03270100 | 1 | 1.83 |
| | | | TOTAL FABRICATION WEIGHT | | 9.07 |

ERECTION MATERIALS

| PT NO | COMPONENT DESCRIPTION | N.S. | ITEM CODE | Q.TY | WEIGHT |
|---|---|---|---|---|---|
| 5 | Gasket Spiral Wound Thk. 3.2 mm ASME B16.20 300LB RF GSK AISI 316 + GRAPHITE c/w INNER RING | 1.1/2 | GSW0GK11221H00 | 2 | 0.22 |
| 6 | Gasket Spiral Wound Thk. 3.2 mm ASME B16.20 300LB RF GSK AISI 316 + GRAPHITE c/w INNER RING | 1 | GSW0GK11210100 | 1 | 0.07 |
| 7 | 95 Stud Bolt + 2 Heavy Nuts ASME B1.1 ASTM A193 Gr.B7 - A194 Gr.2H Hot dip galvanized | 3/4 | SB20BO23540400 | 8 | 3.12 |
| 10 | 100 Stud Bolt + 2 Heavy Nuts ASME B1.1 ASTM A193 Gr.B7 - A194 Gr.2H Hot dip galvanized | 5/8 | SB20BO00680300 | 4 | 1.04 |
| 8 | Double Block & Bleed Valve API 6D FLG 300LB RF DA03C01RFH | 1.1/2 | VLBBNN07201H00 | 1 | 40.00 |
| | INSTRUMENTS | | | | |
| 9 | Pressure Safety Valve FLG.300/150#RF 25-PSV-001F | 2 x 1 | | 1 | 15.00 |
| | | | TOTAL ERECTION WEIGHT | | 59.45 |
| | | | TOTAL WEIGHT | | 68.52 |

| REFERENCE DOCUMENTS | |
|---|---|
| 123A90-DDL-PP-RE-70001 | STRESS ANALYSIS REPORT |
| 123A90-DDL-PR-PID-80020 | P&ID |
| 123A90-DDL-MAT-SP-60003 | INSULATION SPECIFICATION |
| 123A90-DDL-MAT-SP-60006 | COATING & PAINTING SPEC. |
| 123A90-DDL-PP-00-72000 | PIPING SUPPORT BOOK |
| 123A90-DDL-PP-SP-70029 | PIPING MATERIAL CLASS |

SYMBOLS LEGEND:
BUTT WELD · THREADED · HEAT TRACING
SOCKET · PIPE SUPPORT · INSULATED

| NDT EXAMINATION | | | |
|---|---|---|---|
| NDT TYPE | % | NDT TYPE | % |
| RT | 100 | VT | 100 |
| INSPECTION CATEGORY | 1 | MT/PT | 100Ratio |
| TESTING | | | |
| TEST FLUID | | TEST PRESS.(barg) | |
| Water | | 60 | |
| PROCESS LINE DATA | | | |
| DESIGN TEMP. (°C) | | DESIGN PRESS.(barg) | |
| -29 | 80 | | 40 |

| INSULATION & PAINTING | | |
|---|---|---|
| INS. TYPE | INS. THK. | INS. SURF. (m²) |
| N | | |
| PAINT SYS. | BASE RAL | PAINT. SURF. (m²) |
| 6A | RAL 9002 | 0.14 |
| HEAT TRACING | | |
| - | | |
| LINE DATA | | |
| STRESS SYS. | PED CAT. | PWHT |
| 01 | II | No |

| Revision Number | Date | Description | Prepared by | Checked by | Approved by |
|---|---|---|---|---|---|
| 02 | 29/09/25 | AS-BUILT (ASB) | SPS | CBO | CGI |
| 01 | 12/07/24 | ACCEPTED FOR CONSTRUCTION | MMA | CBO | DLO |
| 00 | 07/06/24 | ISSUE FOR REVIEW | MMA | CBO | DLO |

ROSETTI MARINO

# CROSSWIND

DWG TYTLE:

## 1-1/2"-HY-183-03HSS-N

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK

SCALE N.A.

DRAWN SPS | CHECKED CBO | APPROVED CGI | DATE 29/09/25

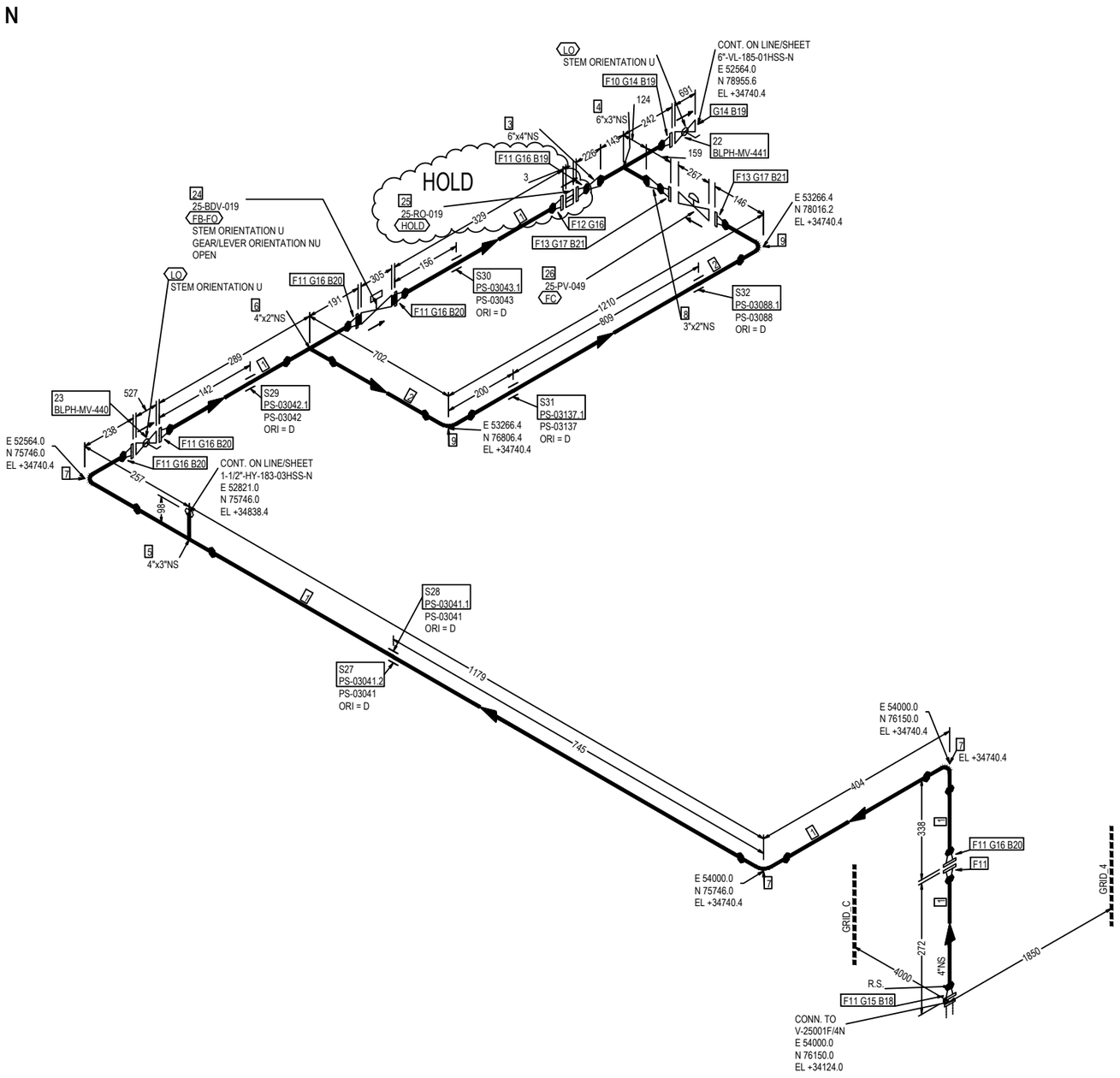
SIZE: A3

DRAWING NO. 123A90-DDL-PP-DI-71000_087

SHEET 1/1

REV. 02

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FABRICATION MATERIALS

| PT NO | COMPONENT DESCRIPTION | N.S. | ITEM CODE | Q.TY | WEIGHT |
|---|---|---|---|---|---|
| 1 | Pipe ASME B36.19M PE 3,05 SML ASTM A312 Gr.TP316/316L | 4 | PIPESS00560400 | 1477MM | 12.55 |
| 2 | Pipe ASME B36.19M PE 2,77 SML ASTM A312 Gr.TP316/316L | 2 | PIPESS00540200 | 1595MM | 6.38 |
| 3 | Reducer Concentric ASME B16.9 BW 7,11x3,05 WRS ASTM A403 Gr.WP316/316L | 6 x 4 | REC0SS03250604 | 1 | 3.56 |
| 4 | Tee Reducing ASME B16.9 BW 7,11x3,05 WRS ASTM A403 Gr.WP316/316L | 6 x 3 | TER0SS03820603 | 1 | 16.24 |
| 5 | Tee Reducing ASME B16.9 BW 3,05x3,05 WRS ASTM A403 Gr.WP316/316L | 4 x 3 | TER0SS01680403 | 1 | 2.66 |
| 6 | Tee Reducing ASME B16.9 BW 3,05x2,77 WRS ASTM A403 Gr.WP316/316L | 4 x 2 | TER0SS03250402 | 1 | 2.57 |
| 7 | 90 Deg Elbow Long Radius ASME B16.9 BW 3,05 WRS ASTM A403 Gr.WP316/316L | 4 | E90RSS01020400 | 3 | 6.03 |
| 8 | Reducer Concentric ASME B16.9 BW 3,05x2,77 WRS ASTM A403 Gr.WP316/316L | 3 x 2 | REC0SS02770302 | 1 | 0.51 |
| 9 | 90 Deg Elbow Long Radius ASME B16.9 BW 2,77 WRS ASTM A403 Gr.WP316/316L | 2 | E90RSS00010200 | 2 | 0.94 |
| 10 | Flange WN ASME B16.5 300LB RF 7,11 FRG ASTM A182 Gr.F316/316L | 6 | FLW0SS03290600 | 1 | 19.29 |
| 11 | Flange WN ASME B16.5 300LB RF 3,05 FRG ASTM A182 Gr.F316/316L | 4 | FLW0SS03370400 | 8 | 89.36 |
| 12 | Flange WN For Jackscrews ASME B16.5 300LB RF 3,05 FRG ASTM A182 Gr.F316/316L | 4 | FLWDSS00030400 | 1 | 11.17 |
| 13 | Flange WN ASME B16.5 300LB RF 2,77 FRG ASTM A182 Gr.F316/316L | 2 | FLW0SS00180200 | 2 | 8.32 |
| | | | TOTAL FABRICATION WEIGHT | | 179.58 |

ERECTION MATERIALS

| PT NO | COMPONENT DESCRIPTION | N.S. | ITEM CODE | Q.TY | WEIGHT |
|---|---|---|---|---|---|
| 14 | Gasket Spiral Wound Thk. 3.2 mm ASME B16.20 300LB RF GSK AISI 316 + GRAPHITE c/w INNER RING | 6 | GSW0GK11260600 | 2 | 0.90 |
| 15 | Insulation Kit Ends as per ASME B16.5 300LB RF | 4 | SPIKNN00700400 | 1 | 0.27 |
| 16 | Gasket Spiral Wound Thk. 3.2 mm ASME B16.20 300LB RF GSK AISI 316 + GRAPHITE c/w INNER RING | 4 | GSW0GK11250400 | 7 | 2.59 |
| 17 | Gasket Spiral Wound Thk. 3.2 mm ASME B16.20 300LB RF GSK AISI 316 + GRAPHITE c/w INNER RING | 2 | GSW0GK11230200 | 2 | 0.26 |
| 18 | 130 Stud Bolt + 2 Heavy Nuts ASME B1.1 ASTM A193 Gr.B7 - A194 Gr.2H Hot dip galvanized | 3/4 | SB20BO19820400 | 8 | 3.84 |
| 19 | 125 Stud Bolt + 2 Heavy Nuts ASME B1.1 ASTM A193 Gr.B7 - A194 Gr.2H Hot dip galvanized | 3/4 | SB20BO01660400 | 32 HOLD | 14.72 |
| 20 | 115 Stud Bolt + 2 Heavy Nuts ASME B1.1 ASTM A193 Gr.B7 - A194 Gr.2H Hot dip galvanized | 3/4 | SB20BO01650400 | 40 | 17.60 |
| 21 | 90 Stud Bolt + 2 Heavy Nuts ASME B1.1 ASTM A193 Gr.B7 - A194 Gr.2H Hot dip galvanized | 5/8 | SB20BO04190300 | 16 | 4.00 |
| 22 | Double Block & Bleed Valve API 6D FLG 300LB RF DA03C01RFH | 6 | VLBBNN07240600 | 1 | 350.00 |
| 23 | Double Block & Bleed Valve API 6D FLG 300LB RF DA03C01RFH | 4 | VLBBNN07230400 | 1 | 170.00 |
| | INSTRUMENTS | | | | |
| 24 | ON/OFF Ball Actuator Valve - 300#RF Flanged 25-BDV-019 | 4 | | 1 | 169.00 |
| 25 | Restriction Orifice 300#RF 25-RO-019 | 4 | | 1 | 1.00 |
| 26 | Control Valve - FLG 300 #RF 25-PV-049 | 2 | | 1 | 41.00 |
| | SUPPORTS | | | | |
| 27 | /PS-03041.2 | 4 | | 1 | 0.06 |
| 28 | /PS-03041.1 | 4 | | 1 | 0.06 |
| 29 | /PS-03042.1 | 4 | | 1 | 0.67 |
| 30 | /PS-03043.1 | 4 | | 1 | 0.67 |
| 31 | /PS-03137.1 | 2 | | 1 | 0.33 |
| 32 | /PS-03088.1 | 2 | | 1 | 0.33 |
| | | | TOTAL ERECTION WEIGHT | | 777.30 |
| | | | TOTAL WEIGHT | | 956.88 |

| REFERENCE DOCUMENTS | | NDT EXAMINATION | | | | INSULATION & PAINTING | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 123A90-DDL-PP-RE-70001 | STRESS ANALYSIS REPORT | NDT TYPE | % | NDT TYPE | % | INS. TYPE | INS. THK. | INS. SURF. (m²) | | | | | | |
| 123A90-DDL-PR-PID-80020 | P&ID | RT | 100 | VT | 100 | N | | | | | | | | |
| 123A90-DDL-MAT-SP-60003 | INSULATION SPECIFICATION | INSPECTION CATEGORY | 1 | MT/PT | 100Ratio | PAINT SYS. | BASE RAL | PAINT. SURF. (m²) | | | | | | |
| 123A90-DDL-MAT-SP-60006 | COATING & PAINTING SPEC. | TESTING | | | | 6A | RAL 9002 | 2.60 | | | | | | |
| 123A90-DDL-PP-00-72000 | PIPING SUPPORT BOOK | TEST FLUID | | TEST PRESS. (barg) | | HEAT TRACING | | | | | | | | |
| 123A90-DDL-PP-SP-70029 | PIPING MATERIAL CLASS | Water | | 60 | | - | | | 02 | 29/09/25 | AS-BUILT (ASB) | SPS | CBO | CGI |
| SYMBOLS LEGEND: | | PROCESS LINE DATA | | | | LINE DATA | | | 01 | 12/07/24 | ACCEPTED FOR CONSTRUCTION | MMA | CBO | DLO |
| BUTT WELD THREADED HEAT TRACING | | DESIGN TEMP. (°C) | | DESIGN PRESS. (barg) | | STRESS SYS. | PED CAT. | PWHT | 00 | 07/06/24 | ISSUE FOR REVIEW | MMA | CBO | DLO |
| SOCKET PIPE SUPPORT INSULATED | | -29 | 80 | | 40 | 01 | III | No | Revision Number | Date | Description | Prepared by | Checked by | Approved by |

ROSETTI MARINO

CROSSWIND

DWG TYTLE:

# 4"-HY-184-03HSS-N

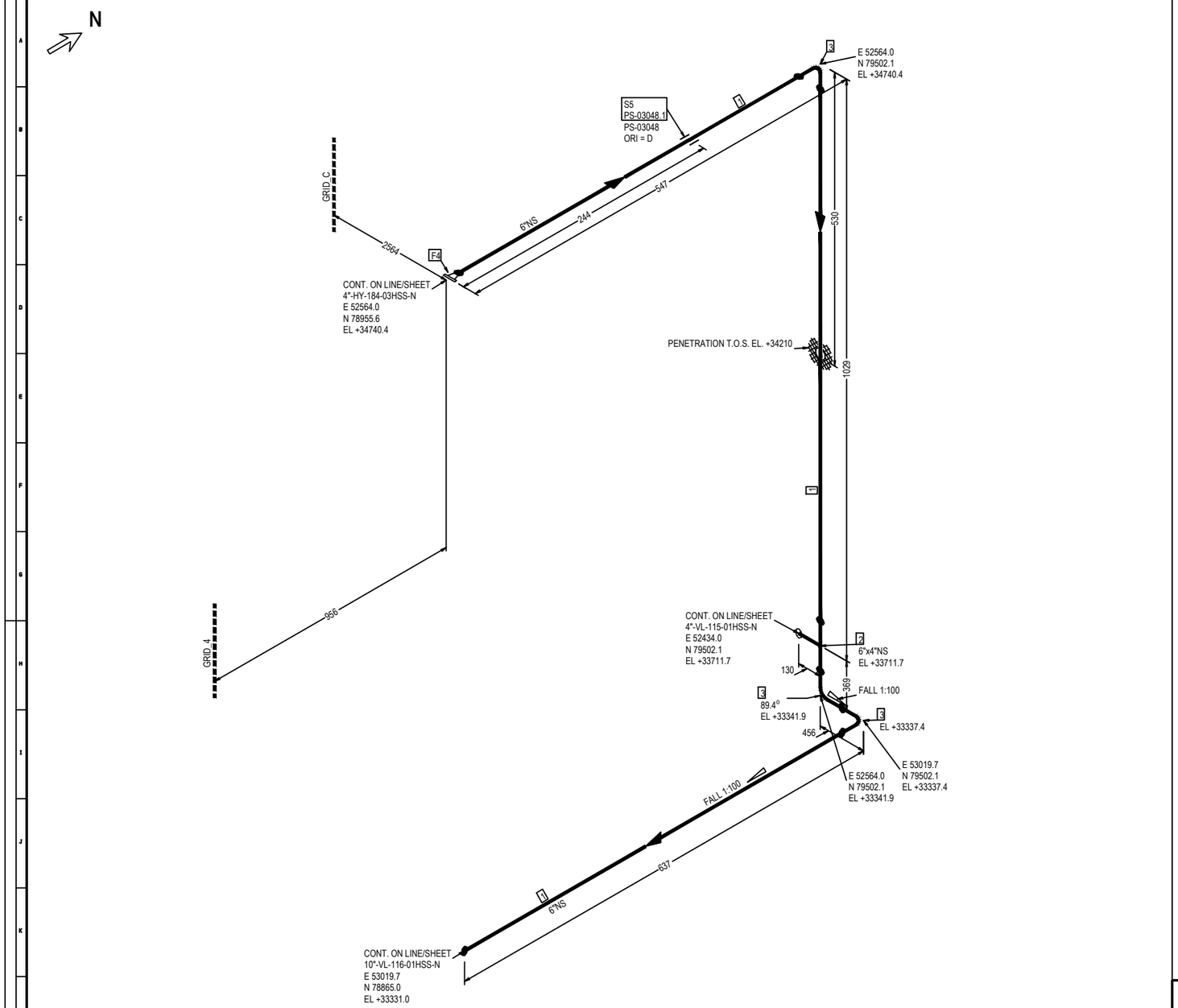
CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK

SCALE N.A.

DRAWN SPS | CHECKED CBO | APPROVED CGI | DATE 29/09/25

SIZE: A3 | DRAWING NO. 123A90-DDL-PP-DI-71000_088 | SHEET 1/1 | REV. 02

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FABRICATION MATERIALS

| PT NO | COMPONENT DESCRIPTION | N.S. | ITEM CODE | Q.TY | WEIGHT |
|---|---|---|---|---|---|
| 1 | Pipe ASME B36.19M PE 3,4 SML ASTM A312 Gr.TP316/316L | 6 | PIPESS00570600 | 1284MM | 17.98 |
| 2 | Tee Reducing ASME B16.9 BW 3,4x3,05 WRS ASTM A403 Gr.WP316/316L | 6 x 4 | TER0SS00170604 | 1 | 7.77 |
| 3 | 90 Deg Elbow Long Radius ASME B16.9 BW 3,4 WRS ASTM A403 Gr.WP316/316L | 6 | E90RSS01030600 | 3 | 14.82 |
| 4 | Flange WN ASME B16.5 300LB RF 3,4 FRG ASTM A182 Gr.F316/316L | 6 | FLW0SS00530600 | 1 | 19.29 |
| | | | TOTAL FABRICATION WEIGHT | | 59.86 |

ERECTION MATERIALS

| PT NO | COMPONENT DESCRIPTION | N.S. | ITEM CODE | Q.TY | WEIGHT |
|---|---|---|---|---|---|
| | SUPPORTS | | | | |
| 5 | /PS-03048.1 | 6 | | 1 | 1.42 |
| | | | TOTAL ERECTION WEIGHT | | 1.42 |
| | | | TOTAL WEIGHT | | 61.28 |

| REFERENCE DOCUMENTS | |
|---|---|
| 123A90-DDL-PP-RE-70001 | STRESS ANALYSIS REPORT |
| 123A90-DDL-PR-PID-80020 | P&ID |
| 123A90-DDL-MAT-SP-60003 | INSULATION SPECIFICATION |
| 123A90-DDL-MAT-SP-60006 | COATING & PAINTING SPEC. |
| 123A90-DDL-PP-00-72000 | PIPING SUPPORT BOOK |
| 123A90-DDL-PP-SP-70029 | PIPING MATERIAL CLASS |

SYMBOLS LEGEND:
BUTT WELD · THREADED · HEAT TRACING · SOCKET · PIPE SUPPORT · INSULATED

| NDT EXAMINATION | | | |
|---|---|---|---|
| NDT TYPE | % | NDT TYPE | % |
| RT | 100 | VT | 100 |
| INSPECTION CATEGORY | 1 | MT/PT | 100Ratio |
| TESTING | | | |
| TEST FLUID | | TEST PRESS.(barg) | |
| Water | | 5.25 | |
| PROCESS LINE DATA | | | |
| DESIGN TEMP. (°C) | | DESIGN PRESS.(barg) | |
| -29 | 100 | | 3.5 |

| INSULATION & PAINTING | | |
|---|---|---|
| INS. TYPE | INS. THK. | INS. SURF. (m²) |
| N | | |
| PAINT SYS. | BASE RAL | PAINT. SURF. (m²) |
| 6A | RAL 9002 | 1.45 |
| HEAT TRACING | | |
| - | | |
| LINE DATA | | |
| STRESS SYS. | PED CAT. | PWHT |
| 01 | II | No |

| Revision Number | Date | Description | Prepared by | Checked by | Approved by |
|---|---|---|---|---|---|
| 02 | 29/09/25 | AS-BUILT (ASB) | SPS | CBO | CGI |
| 01 | 12/07/24 | ACCEPTED FOR CONSTRUCTION | MMA | CBO | DLO |
| 00 | 07/06/24 | ISSUE FOR REVIEW | MMA | CBO | DLO |

ROSETTI MARINO

# CROSSWIND

DWG TYTLE:

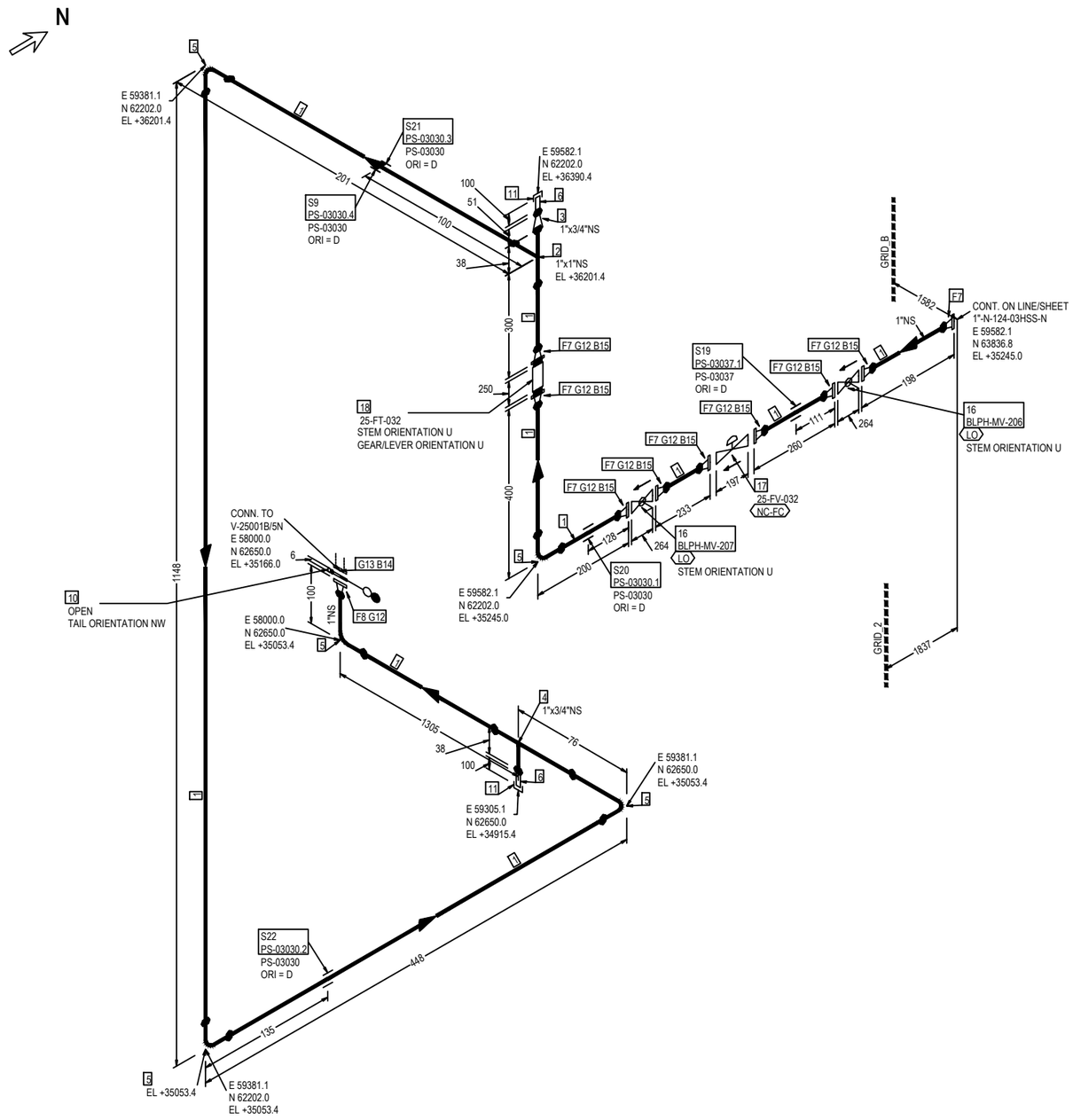
## 6"-VL-185-01HSS-N

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK | SCALE N.A.

DRAWN SPS | CHECKED CBO | APPROVED CGI | DATE 29/09/25

SIZE: A3 | DRAWING NO. 123A90-DDL-PP-DI-71000_089 | SHEET 1/1 | REV. 02

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FABRICATION MATERIALS

| PT NO | COMPONENT DESCRIPTION | N.S. | ITEM CODE | Q.TY | WEIGHT |
|---|---|---|---|---|---|
| 1 | Pipe ASME B36.19M PE 3,38 SML ASTM A312 Gr.TP316/316L | 1 | PIPESS00480100 | 3717MM | 9.29 |
| 2 | Tee ASME B16.9 BW 3,38 WRS ASTM A403 Gr.WP316/316L | 1 x 1 | TEE0SS00550100 | 1 | 0.34 |
| 3 | Reducer Concentric ASME B16.9 BW 3,38x2,87 WRS ASTM A403 Gr.WP316/316L | 1 x 3/4 | REC0SS01200130Q | 1 | 0.14 |
| 4 | Tee Reducing ASME B16.9 BW 3,38x2,87 WRS ASTM A403 Gr.WP316/316L | 1 x 3/4 | TER0SS0171013Q | 1 | 0.34 |
| 5 | 90 Deg Elbow Long Radius ASME B16.9 BW 3,38 WRS ASTM A403 Gr.WP316/316L | 1 | E90RSS00670100 | 5 | 0.70 |
| 6 | Nipple L=100mm ASME B36.19M THRD-M NPT x PE 2,87 SML ASTM A312 Gr.TP316/316L | 3/4 | N100SS02653Q00 | 2 | 0.30 |
| 7 | Flange WN ASME B16.5 300LB RF 3,38 FRG ASTM A182 Gr.F316/316L | 1 | FLW0SS03270100 | 9 | 16.47 |
| 8 | Flange WN For Jackscrews ASME B16.5 300LB RF 3,38 FRG ASTM A182 Gr.F316/316L | 1 | FLWDSS00770100 | 1 | 1.83 |
| | SUPPORTS | | | | |
| 9 | /PS-03030.4 | 1 | | 1 | 0.50 |
| | | | TOTAL FABRICATION WEIGHT | | 29.91 |

ERECTION MATERIALS

| PT NO | COMPONENT DESCRIPTION | N.S. | ITEM CODE | Q.TY | WEIGHT |
|---|---|---|---|---|---|
| 10 | Spectacle Blinds ASME B16.48 THRU BOLTED 300LB RF FPL ASTM A240 Gr.TP316/316L | 1 | BSPESS01580100 | 1 | 0.51 |
| 11 | Cap Forged ASME B16.11 THRD-F NPT 3000# FRG ASTM A182 Gr.F316/316L | 3/4 | CAPFSS00023Q00 | 2 | 0.38 |
| 12 | Gasket Spiral Wound Thk. 3.2 mm ASME B16.20 300LB RF GSK AISI 316 + GRAPHITE c/w INNER RING | 1 | GSW0GK111210100 | 9 | 0.63 |
| 13 | Insulation Kit Ends as per ASME B16.5 300LB RF | 1 | SPIKNN01420100 | 1 | 0.07 |
| 14 | 105 Stud Bolt + 2 Heavy Nuts ASME B1.1 ASTM A193 Gr.B7 - A194 Gr.2H Hot dip galvanized | 5/8 | SB20BO04200300 | 4 | 1.08 |
| 15 | 80 Stud Bolt + 2 Heavy Nuts ASME B1.1 ASTM A193 Gr.B7 - A194 Gr.2H Hot dip galvanized | 5/8 | SB20BO01870300 | 32 | 7.36 |
| 16 | Double Block & Bleed Valve API 6D FLG 300LB RF DA03C01RFH | 1 | VLBBNN07190100 | 2 | 27.00 |
| | INSTRUMENTS | | | | |
| 17 | Control Valve - FLG 300 #RF 25-FV-032 | 1 | | 1 | 40.00 |
| 18 | Flow Transmitter - ANSI - FLG 300# 25-FT-032 | 1 | | 1 | 12.00 |
| | SUPPORTS | | | | |
| 19 | /PS-03037.1 | 1 | | 1 | 0.19 |
| 20 | /PS-03030.1 | 1 | | 1 | 0.19 |
| 21 | /PS-03030.3 | 1 | | 1 | 0.01 |
| 22 | /PS-03030.2 | 1 | | 1 | 0.19 |
| | | | TOTAL ERECTION WEIGHT | | 89.61 |
| | | | TOTAL WEIGHT | | 119.52 |

| REFERENCE DOCUMENTS | |
|---|---|
| 123A90-DDL-PP-RE-70001 | STRESS ANALYSIS REPORT |
| 123A90-DDL-PR-PID-80016 | P&ID |
| 123A90-DDL-MAT-SP-60003 | INSULATION SPECIFICATION |
| 123A90-DDL-MAT-SP-60006 | COATING & PAINTING SPEC. |
| 123A90-DDL-PP-00-72000 | PIPING SUPPORT BOOK |
| 123A90-DDL-PP-SP-70029 | PIPING MATERIAL CLASS |

SYMBOLS LEGEND:
BUTT WELD · THREADED · HEAT TRACING · SOCKET · PIPE SUPPORT · INSULATED

| NDT EXAMINATION | | | |
|---|---|---|---|
| NDT TYPE | % | NDT TYPE | % |
| RT | 100 | VT | 100 |
| INSPECTION CATEGORY | 1 | MT/PT | 100Ratio |

| TESTING | |
|---|---|
| TEST FLUID | TEST PRESS.(barg) |
| Water | 60 |

| PROCESS LINE DATA | | | |
|---|---|---|---|
| DESIGN TEMP. (°C) | | DESIGN PRESS.(barg) | |
| -29 | 80 | | 40 |

| INSULATION & PAINTING | | |
|---|---|---|
| INS. TYPE | INS. THK. | INS. SURF. (m²) |
| N | | |
| PAINT SYS. | BASE RAL | PAINT. SURF. (m²) |
| 6A | RAL 9002 | 0.63 |

| HEAT TRACING |
|---|
| - |

| LINE DATA | | |
|---|---|---|
| STRESS SYS. | PED CAT. | PWHT |
| - | II | No |

| Revision Number | Date | Description | Prepared by | Checked by | Approved by |
|---|---|---|---|---|---|
| 02 | 29/09/25 | AS-BUILT (ASB) | SPS | CBO | CGI |
| 01 | 12/07/24 | ACCEPTED FOR CONSTRUCTION | MMA | CBO | DLO |
| 00 | 07/06/24 | ISSUE FOR REVIEW | MMA | CBO | DLO |

ROSETTI MARINO

# CROSSWIND

DWG TYTLE:

## 1"-HY-186-03HSS-N

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK

SCALE N.A.

DRAWN SPS | CHECKED CBO | APPROVED CGI | DATE 29/09/25

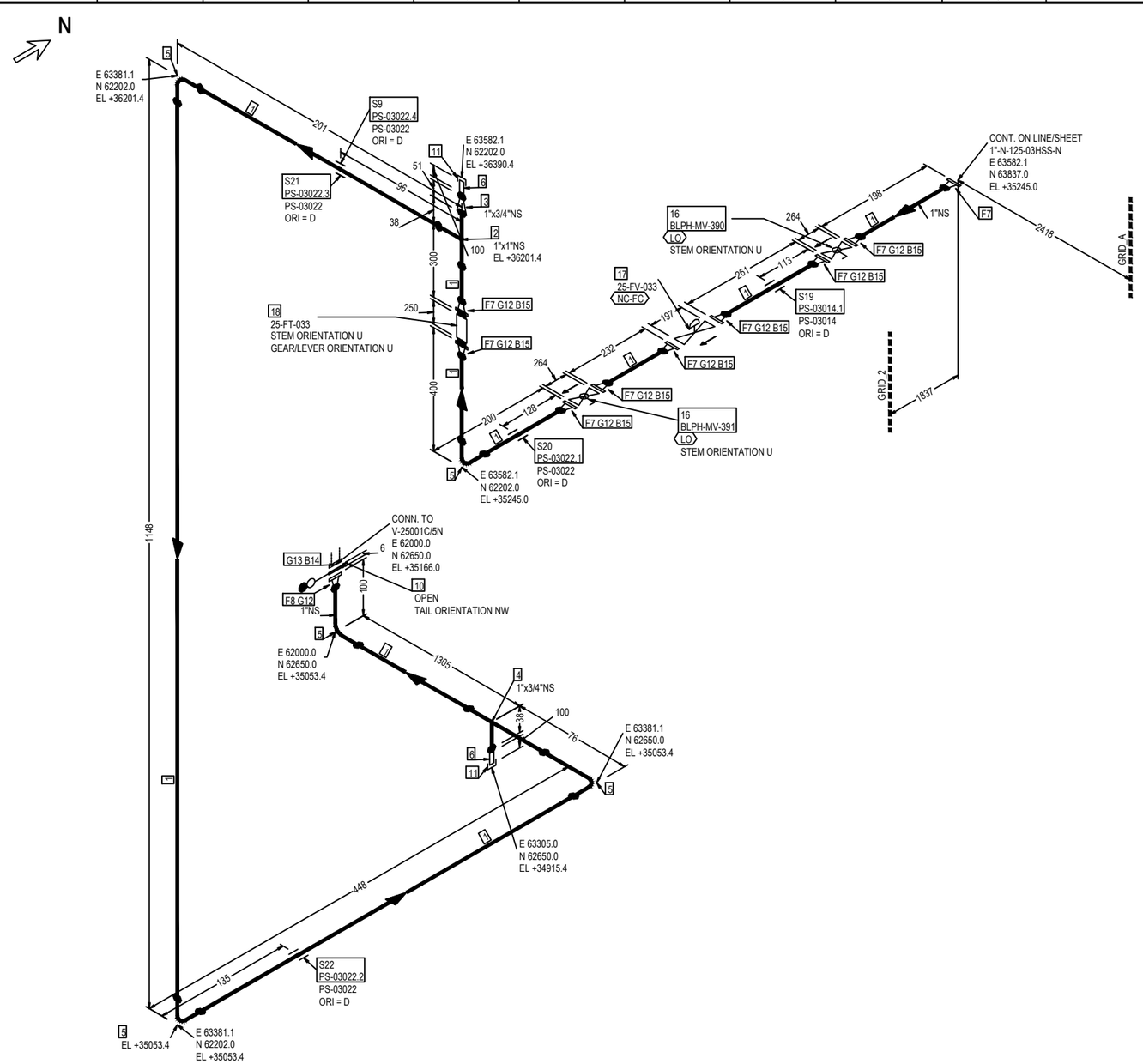
SIZE: A3

DRAWING NO. 123A90-DDL-PP-DI-71000_090

SHEET 1/1

REV. 02

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## FABRICATION MATERIALS

| PT NO | COMPONENT DESCRIPTION | N.S. | ITEM CODE | Q.TY | WEIGHT |
|---|---|---|---|---|---|
| 1 | Pipe ASME B36.19M PE 3,38 SML ASTM A312 Gr.TP316/316L | 1 | PIPESS00480100 | 3717MM | 9.29 |
| 2 | Tee ASME B16.9 BW 3,38 WRS ASTM A403 Gr.WP316/316L | 1 x 1 | TEE0SS00550100 | 1 | 0.34 |
| 3 | Reducer Concentric ASME B16.9 BW 3,38x2,87 WRS ASTM A403 Gr.WP316/316L | 1 x 3/4 | REC0SS01200130 | 1 | 0.14 |
| 4 | Tee Reducing ASME B16.9 BW 3,38x2,87 WRS ASTM A403 Gr.WP316/316L | 1 x 3/4 | TER0SS0171013Q | 1 | 0.34 |
| 5 | 90 Deg Elbow Long Radius ASME B16.9 BW 3,38 WRS ASTM A403 Gr.WP316/316L | 1 | E90RSS00670100 | 5 | 0.70 |
| 6 | Nipple L=100mm ASME B36.19M THRD-M NPT x PE 2,87 SML ASTM A312 Gr.TP316/316L | 3/4 | N100SS02653Q00 | 2 | 0.30 |
| 7 | Flange WN ASME B16.5 300LB RF 3,38 FRG ASTM A182 Gr.F316/316L | 1 | FLW0SS03270100 | 9 | 16.47 |
| 8 | Flange WN For Jackscrews ASME B16.5 300LB RF 3,38 FRG ASTM A182 Gr.F316/316L | 1 | FLWDSS00770100 | 1 | 1.83 |
| | SUPPORTS | | | | |
| 9 | /PS-03022.4 | 1 | | 1 | 0.50 |
| | | | TOTAL FABRICATION WEIGHT | | 29.91 |

## ERECTION MATERIALS

| PT NO | COMPONENT DESCRIPTION | N.S. | ITEM CODE | Q.TY | WEIGHT |
|---|---|---|---|---|---|
| 10 | Spectacle Blinds ASME B16.48 THRU BOLTED 300LB RF FPL ASTM A240 Gr.TP316/316L | 1 | BSPESS01580100 | 1 | 0.51 |
| 11 | Cap Forged ASME B16.11 THRD-F NPT 3000# FRG ASTM A182 Gr.F316/316L | 3/4 | CAPFSS00023Q00 | 2 | 0.38 |
| 12 | Gasket Spiral Wound Thk. 3.2 mm ASME B16.20 300LB RF GSK AISI 316 + GRAPHITE c/w INNER RING | 1 | GSW0GK111210100 | 9 | 0.63 |
| 13 | Insulation Kit Ends as per ASME B16.5 300LB RF | 1 | SPIKNN01420100 | 1 | 0.07 |
| 14 | 105 Stud Bolt + 2 Heavy Nuts ASME B1.1 ASTM A193 Gr.B7 - A194 Gr.2H Hot dip galvanized | 5/8 | SB20BO04200300 | 4 | 1.08 |
| 15 | 80 Stud Bolt + 2 Heavy Nuts ASME B1.1 ASTM A193 Gr.B7 - A194 Gr.2H Hot dip galvanized | 5/8 | SB20BO01870300 | 32 | 7.36 |
| 16 | Double Block & Bleed Valve API 6D FLG 300LB RF DA03C01RFH | 1 | VLBBNN07190100 | 2 | 27.00 |
| | INSTRUMENTS | | | | |
| 17 | Control Valve - FLG 300 #RF 25-FV-033 | 1 | | 1 | 40.00 |
| 18 | Flow Transmitter - ANSI - FLG 300# 25-FT-033 | 1 | | 1 | 12.00 |
| | SUPPORTS | | | | |
| 19 | /PS-03014.1 | 1 | | 1 | 0.19 |
| 20 | /PS-03022.1 | 1 | | 1 | 0.19 |
| 21 | /PS-03022.3 | 1 | | 1 | 0.01 |
| 22 | /PS-03022.2 | 1 | | 1 | 0.19 |
| | | | TOTAL ERECTION WEIGHT | | 89.61 |
| | | | TOTAL WEIGHT | | 119.52 |

| REFERENCE DOCUMENTS | |
|---|---|
| 123A90-DDL-PP-RE-70001 | STRESS ANALYSIS REPORT |
| 123A90-DDL-PR-PID-80017 | P&ID |
| 123A90-DDL-MAT-SP-60003 | INSULATION SPECIFICATION |
| 123A90-DDL-MAT-SP-60006 | COATING & PAINTING SPEC. |
| 123A90-DDL-PP-00-72000 | PIPING SUPPORT BOOK |
| 123A90-DDL-PP-SP-70029 | PIPING MATERIAL CLASS |

SYMBOLS LEGEND:
BUTT WELD · THREADED · HEAT TRACING · SOCKET · PIPE SUPPORT · INSULATED

| NDT EXAMINATION | | | |
|---|---|---|---|
| NDT TYPE | % | NDT TYPE | % |
| RT | 100 | VT | 100 |
| INSPECTION CATEGORY | 1 | MT/PT | 100Ratio |

| TESTING | |
|---|---|
| TEST FLUID | TEST PRESS.(barg) |
| Water | 60 |

| PROCESS LINE DATA | | | |
|---|---|---|---|
| DESIGN TEMP. (°C) | | DESIGN PRESS.(barg) | |
| -29 | 80 | | 40 |

| INSULATION & PAINTING | | |
|---|---|---|
| INS. TYPE | INS. THK. | INS. SURF. (m²) |
| N | | |
| PAINT SYS. | BASE RAL | PAINT. SURF. (m²) |
| 6A | RAL 9002 | 0.63 |

| HEAT TRACING | | |
|---|---|---|
| LINE DATA | | |
| STRESS SYS. | PED CAT. | PWHT |
| - | II | No |

| Revision Number | Date | Description | Prepared by | Checked by | Approved by |
|---|---|---|---|---|---|
| 02 | 29/09/25 | AS-BUILT (ASB) | SPS | CBO | CGI |
| 01 | 12/07/24 | ACCEPTED FOR CONSTRUCTION | MMA | CBO | DLO |
| 00 | 07/06/24 | ISSUE FOR REVIEW | MMA | CBO | DLO |

ROSETTI MARINO

# CROSSWIND

DWG TYTLE:

# 1"-HY-187-03HSS-N

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK

SCALE N.A.

DRAWN SPS | CHECKED CBO | APPROVED CGI | DATE 29/09/25

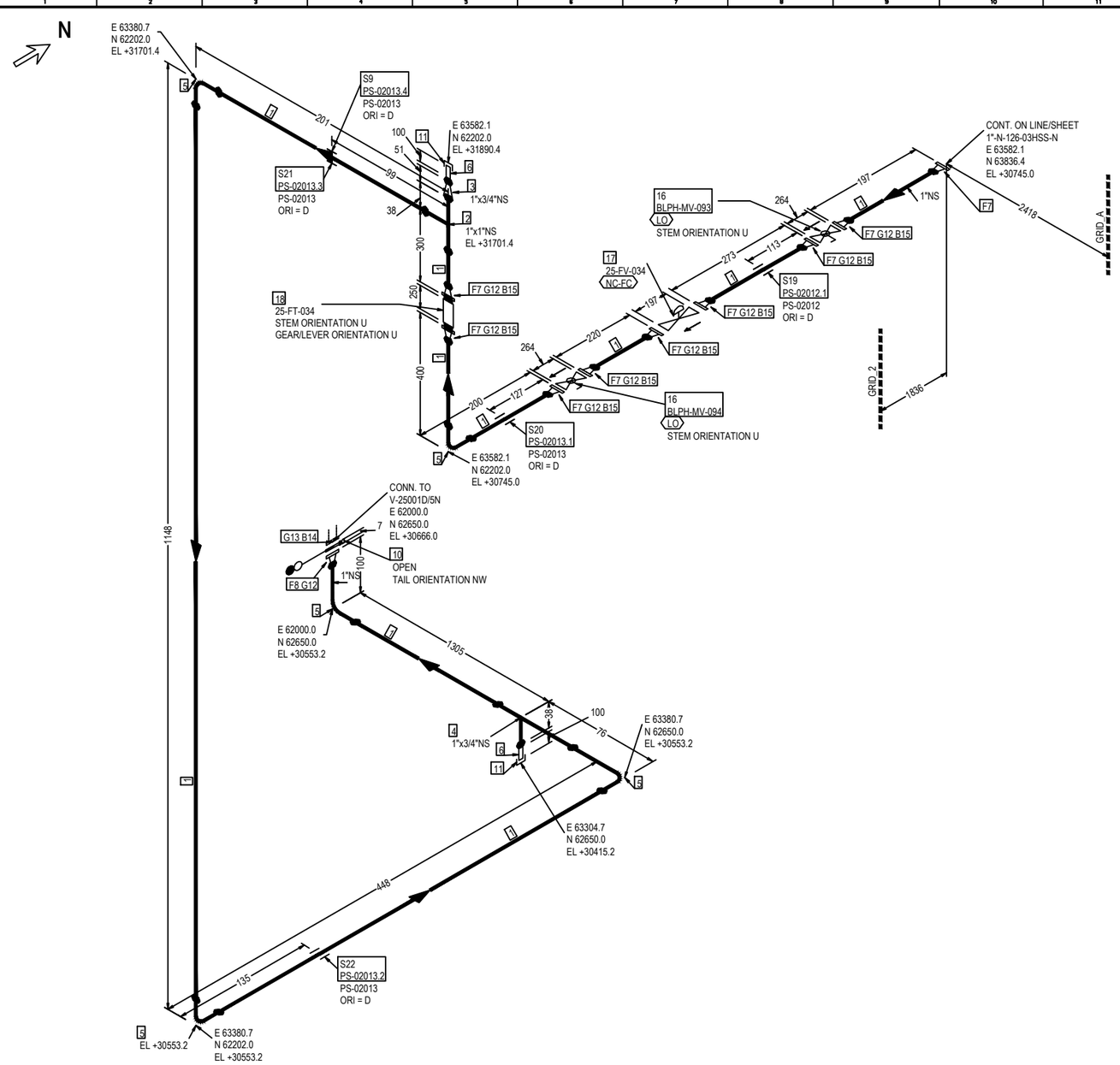
SIZE: A3

DRAWING NO. 123A90-DDL-PP-DI-71000_091

SHEET 1/1

REV. 02

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FABRICATION MATERIALS

| PT NO | COMPONENT DESCRIPTION | N.S. | ITEM CODE | Q.TY | WEIGHT |
|---|---|---|---|---|---|
| 1 | Pipe ASME B36.19M PE 3,38 SML ASTM A312 Gr.TP316/316L | 1 | PIPESS00480100 | 3716MM | 9.29 |
| 2 | Tee ASME B16.9 BW 3,38 WRS ASTM A403 Gr.WP316/316L | 1 x 1 | TEE0SS00550100 | 1 | 0.34 |
| 3 | Reducer Concentric ASME B16.9 BW 3,38x2,87 WRS ASTM A403 Gr.WP316/316L | 1 x 3/4 | REC0SS01200130Q | 1 | 0.14 |
| 4 | Tee Reducing ASME B16.9 BW 3,38x2,87 WRS ASTM A403 Gr.WP316/316L | 1 x 3/4 | TER0SS0171013Q | 1 | 0.34 |
| 5 | 90 Deg Elbow Long Radius ASME B16.9 BW 3,38 WRS ASTM A403 Gr.WP316/316L | 1 | E90RSS00670100 | 5 | 0.70 |
| 6 | Nipple L=100mm ASME B36.19M THRD-M NPT x PE 2,87 SML ASTM A312 Gr.TP316/316L | 3/4 | N100SS02653Q00 | 2 | 0.30 |
| 7 | Flange WN ASME B16.5 300LB RF 3,38 FRG ASTM A182 Gr.F316/316L | 1 | FLW0SS03270100 | 9 | 16.47 |
| 8 | Flange WN For Jackscrews ASME B16.5 300LB RF 3,38 FRG ASTM A182 Gr.F316/316L | 1 | FLWDSS00770100 | 1 | 1.83 |
| | SUPPORTS | | | | |
| 9 | /PS-02013.4 | 1 | | 1 | 0.50 |
| | | | TOTAL FABRICATION WEIGHT | | 29.91 |

ERECTION MATERIALS

| PT NO | COMPONENT DESCRIPTION | N.S. | ITEM CODE | Q.TY | WEIGHT |
|---|---|---|---|---|---|
| 10 | Spectacle Blinds ASME B16.48 THRU BOLTED 300LB RF FPL ASTM A240 Gr.TP316/316L | 1 | BSPESS01580100 | 1 | 0.51 |
| 11 | Cap Forged ASME B16.11 THRD-F NPT 3000# FRG ASTM A182 Gr.F316/316L | 3/4 | CAPFSS00023Q00 | 2 | 0.38 |
| 12 | Gasket Spiral Wound Thk. 3.2 mm ASME B16.20 300LB RF GSK AISI 316 + GRAPHITE c/w INNER RING | 1 | GSW0GK111210100 | 9 | 0.63 |
| 13 | Insulation Kit Ends as per ASME B16.5 300LB RF | 1 | SPIKNN01420100 | 1 | 0.07 |
| 14 | 105 Stud Bolt + 2 Heavy Nuts ASME B1.1 ASTM A193 Gr.B7 - A194 Gr.2H Hot dip galvanized | 5/8 | SB20BO04200300 | 4 | 1.08 |
| 15 | 80 Stud Bolt + 2 Heavy Nuts ASME B1.1 ASTM A193 Gr.B7 - A194 Gr.2H Hot dip galvanized | 5/8 | SB20BO01870300 | 32 | 7.36 |
| 16 | Double Block & Bleed Valve API 6D FLG 300LB RF DA03C01RFH | 1 | VLBBNN07190100 | 2 | 27.00 |
| | INSTRUMENTS | | | | |
| 17 | Control Valve - FLG 300 #RF 25-FV-034 | 1 | | 1 | 40.00 |
| 18 | Flow Transmitter - ANSI - FLG 300# 25-FT-034 | 1 | | 1 | 12.00 |
| | SUPPORTS | | | | |
| 19 | /PS-02012.1 | 1 | | 1 | 0.19 |
| 20 | /PS-02013.1 | 1 | | 1 | 0.19 |
| 21 | /PS-02013.3 | 1 | | 1 | 0.01 |
| 22 | /PS-02013.2 | 1 | | 1 | 0.19 |
| | | | TOTAL ERECTION WEIGHT | | 89.61 |
| | | | TOTAL WEIGHT | | 119.52 |

| REFERENCE DOCUMENTS | |
|---|---|
| 123A90-DDL-PP-RE-70001 | STRESS ANALYSIS REPORT |
| 123A90-DDL-PR-PID-80018 | P&ID |
| 123A90-DDL-MAT-SP-60003 | INSULATION SPECIFICATION |
| 123A90-DDL-MAT-SP-60006 | COATING & PAINTING SPEC. |
| 123A90-DDL-PP-00-72000 | PIPING SUPPORT BOOK |
| 123A90-DDL-PP-SP-70029 | PIPING MATERIAL CLASS |

SYMBOLS LEGEND:
BUTT WELD · THREADED · HEAT TRACING · SOCKET · PIPE SUPPORT · INSULATED

| NDT EXAMINATION | | | | INSULATION & PAINTING | | |
|---|---|---|---|---|---|---|
| NDT TYPE | % | NDT TYPE | % | INS. TYPE | INS. THK. | INS. SURF. (m²) |
| RT | 100 | VT | 100 | N | | |
| INSPECTION CATEGORY | 1 | MT/PT | 100Ratio | PAINT SYS. | BASE RAL | PAINT. SURF. (m²) |
| TESTING | | | | 6A | RAL 9002 | 0.63 |
| TEST FLUID | | TEST PRESS. (barg) | | HEAT TRACING | | |
| Water | | 60 | | - | | |
| PROCESS LINE DATA | | | | LINE DATA | | |
| DESIGN TEMP. (°C) | | DESIGN PRESS. (barg) | | STRESS SYS. | PED CAT. | PWHT |
| -29 | 80 | | 40 | - | II | No |

| Revision Number | Date | Description | Prepared by | Checked by | Approved by |
|---|---|---|---|---|---|
| 02 | 29/09/25 | AS-BUILT (ASB) | SPS | CBO | CGI |
| 01 | 12/07/24 | ACCEPTED FOR CONSTRUCTION | MMA | CBO | DLO |
| 00 | 07/06/24 | ISSUE FOR REVIEW | MMA | CBO | DLO |

ROSETTI MARINO

# CROSSWIND

DWG TYTLE:

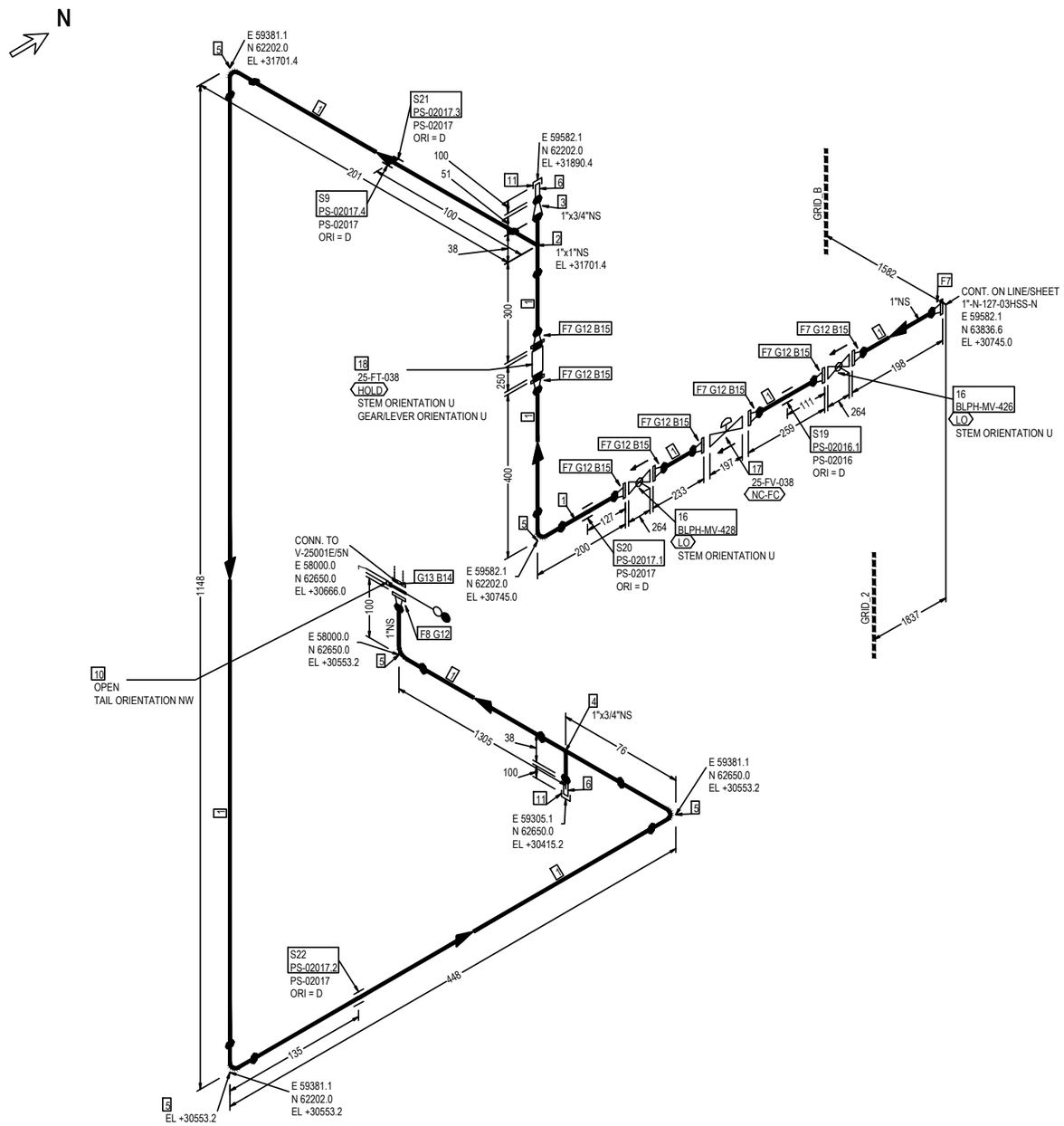
## 1"-HY-188-03HSS-N

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK | SCALE N.A.

DRAWN SPS | CHECKED CBO | APPROVED CGI | DATE 29/09/25

SIZE: A3 | DRAWING NO. 123A90-DDL-PP-DI-71000_092 | SHEET 1/1 | REV. 02

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## FABRICATION MATERIALS

| PT NO | COMPONENT DESCRIPTION | N.S. | ITEM CODE | Q.TY | WEIGHT |
|---|---|---|---|---|---|
| 1 | Pipe ASME B36.19M PE 3,38 SML ASTM A312 Gr.TP316/316L | 1 | PIPESS00480100 | 3716MM | 9.29 |
| 2 | Tee ASME B16.9 BW 3,38 WRS ASTM A403 Gr.WP316/316L | 1 x 1 | TEE0SS00550100 | 1 | 0.34 |
| 3 | Reducer Concentric ASME B16.9 BW 3,38x2,87 WRS ASTM A403 Gr.WP316/316L | 1 x 3/4 | REC0SS01200I3Q | 1 | 0.14 |
| 4 | Tee Reducing ASME B16.9 BW 3,38x2,87 WRS ASTM A403 Gr.WP316/316L | 1 x 3/4 | TER0SS0171013Q | 1 | 0.34 |
| 5 | 90 Deg Elbow Long Radius ASME B16.9 BW 3,38 WRS ASTM A403 Gr.WP316/316L | 1 | E90RSS00670100 | 5 | 0.70 |
| 6 | Nipple L=100mm ASME B36.19M THRD-M NPT x PE 2,87 SML ASTM A312 Gr.TP316/316L | 3/4 | N100SS02653Q00 | 2 | 0.30 |
| 7 | Flange WN ASME B16.5 300LB RF 3,38 FRG ASTM A182 Gr.F316/316L | 1 | FLW0SS03270100 | 9 | 16.47 |
| 8 | Flange WN For Jackscrews ASME B16.5 300LB RF 3,38 FRG ASTM A182 Gr.F316/316L | 1 | FLWDSS00770100 | 1 | 1.83 |
| | SUPPORTS | | | | |
| 9 | /PS-02017.4 | 1 | | 1 | 0.50 |
| | | | TOTAL FABRICATION WEIGHT | | 29.91 |

## ERECTION MATERIALS

| PT NO | COMPONENT DESCRIPTION | N.S. | ITEM CODE | Q.TY | WEIGHT |
|---|---|---|---|---|---|
| 10 | Spectacle Blinds ASME B16.48 THRU BOLTED 300LB RF FPL ASTM A240 Gr.TP316/316L | 1 | BSPESS01580100 | 1 | 0.51 |
| 11 | Cap Forged ASME B16.11 THRD-F NPT 3000# FRG ASTM A182 Gr.F316/316L | 3/4 | CAPFSS00023Q00 | 2 | 0.38 |
| 12 | Gasket Spiral Wound Thk. 3.2 mm ASME B16.20 300LB RF GSK AISI 316 + GRAPHITE c/w INNER RING | 1 | GSW0GK111210100 | 9 | 0.63 |
| 13 | Insulation Kit Ends as per ASME B16.5 300LB RF | 1 | SPIKNN01420100 | 1 | 0.07 |
| 14 | 105 Stud Bolt + 2 Heavy Nuts ASME B1.1 ASTM A193 Gr.B7 - A194 Gr.2H Hot dip galvanized | 5/8 | SB20BO04200300 | 4 | 1.08 |
| 15 | 80 Stud Bolt + 2 Heavy Nuts ASME B1.1 ASTM A193 Gr.B7 - A194 Gr.2H Hot dip galvanized | 5/8 | SB20BO01870300 | 32 | 7.36 |
| 16 | Double Block & Bleed Valve API 6D FLG 300LB RF DA03C01RFH | 1 | VLBBNN07190100 | 2 | 27.00 |
| | INSTRUMENTS | | | | |
| 17 | Control Valve - FLG 300 #RF 25-FV-038 | 1 | | 1 | 40.00 |
| 18 | Flow Transmitter - ANSI - FLG 300# 25-FT-038 | 1 | | 1 | 12.00 |
| | SUPPORTS | | | | |
| 19 | /PS-02016.1 | 1 | | 1 | 0.19 |
| 20 | /PS-02017.1 | 1 | | 1 | 0.19 |
| 21 | /PS-02017.3 | 1 | | 1 | 0.01 |
| 22 | /PS-02017.2 | 1 | | 1 | 0.19 |
| | | | TOTAL ERECTION WEIGHT | | 89.61 |
| | | | TOTAL WEIGHT | | 119.52 |

| REFERENCE DOCUMENTS | |
|---|---|
| 123A90-DDL-PP-RE-70001 | STRESS ANALYSIS REPORT |
| 123A90-DDL-PR-PID-80019 | P&ID |
| 123A90-DDL-MAT-SP-60003 | INSULATION SPECIFICATION |
| 123A90-DDL-MAT-SP-60006 | COATING & PAINTING SPEC. |
| 123A90-DDL-PP-00-72000 | PIPING SUPPORT BOOK |
| 123A90-DDL-PP-SP-70029 | PIPING MATERIAL CLASS |

SYMBOLS LEGEND:
BUTT WELD · THREADED · HEAT TRACING · SOCKET · PIPE SUPPORT · INSULATED

| NDT EXAMINATION | | | | |
|---|---|---|---|---|
| NDT TYPE | % | NDT TYPE | % | |
| RT | 100 | VT | 100 | |
| INSPECTION CATEGORY | 1 | MT/PT | 100Ratio | |
| TESTING | | | | |
| TEST FLUID | | TEST PRESS.(barg) | | |
| Water | | 60 | | |
| PROCESS LINE DATA | | | | |
| DESIGN TEMP. (°C) | | DESIGN PRESS.(barg) | | |
| -29 | 80 | | 40 | |

| INSULATION & PAINTING | | |
|---|---|---|
| INS. TYPE | INS. THK. | INS. SURF. (m²) |
| N | | |
| PAINT SYS. | BASE RAL | PAINT. SURF. (m²) |
| 6A | RAL 9002 | 0.63 |
| HEAT TRACING | | |
| - | | |
| LINE DATA | | |
| STRESS SYS. | PED CAT. | PWHT |
| - | II | No |

| Revision Number | Date | Description | Prepared by | Checked by | Approved by |
|---|---|---|---|---|---|
| 02 | 29/09/25 | AS-BUILT (ASB) | SPS | CBO | CGI |
| 01 | 12/07/24 | ACCEPTED FOR CONSTRUCTION | MMA | CBO | DLO |
| 00 | 07/06/24 | ISSUE FOR REVIEW | MMA | CBO | DLO |

ROSETTI MARINO

# CROSSWIND

DWG TYTLE:

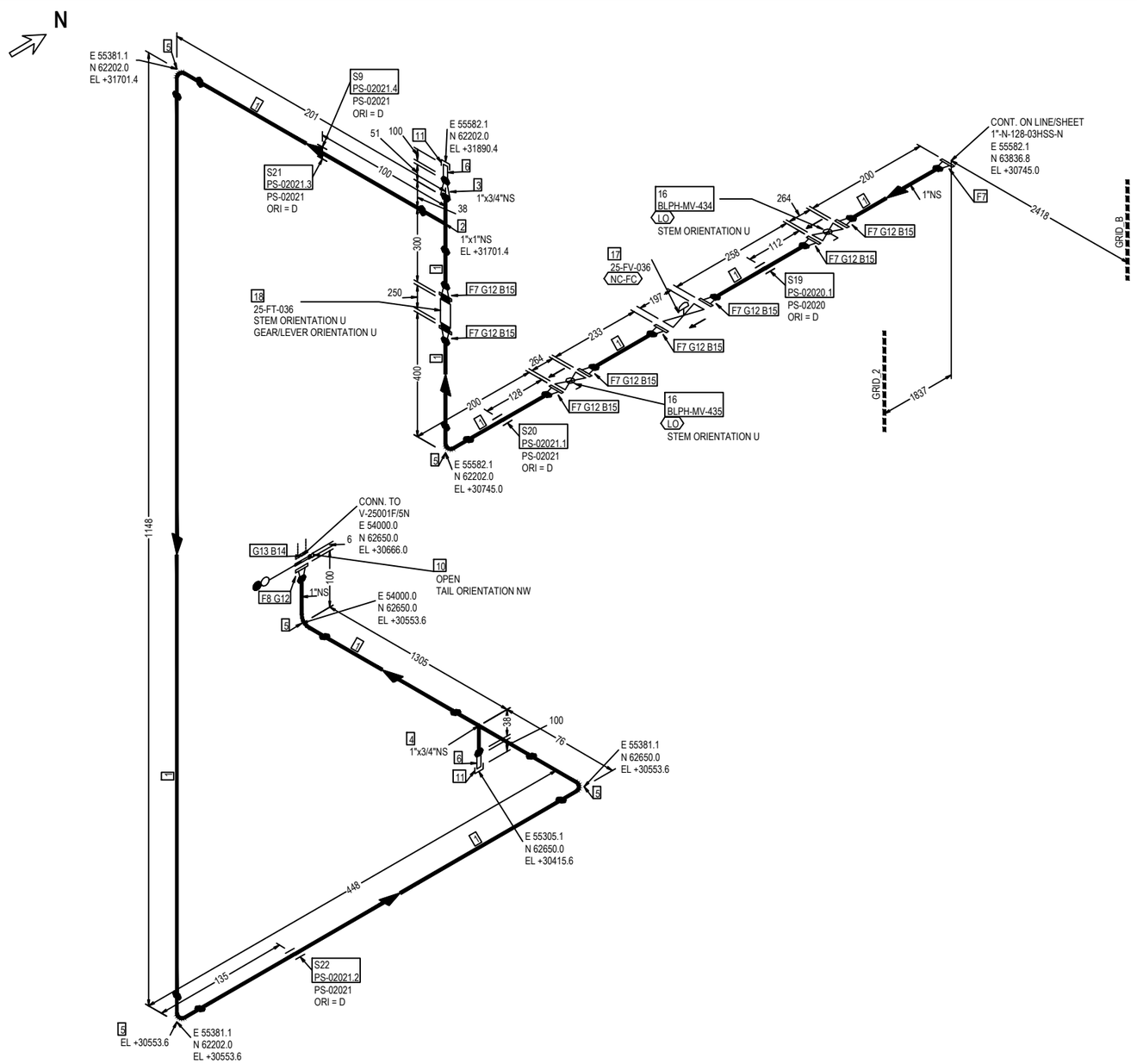
# 1"-HY-189-03HSS-N

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK | SCALE N.A.

DRAWN SPS | CHECKED CBO | APPROVED CGI | DATE 29/09/25

SIZE: A3 | DRAWING NO. 123A90-DDL-PP-DI-71000_093 | SHEET 1/1 | REV. 02

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FABRICATION MATERIALS

| PT NO | COMPONENT DESCRIPTION | N.S. | ITEM CODE | Q.TY | WEIGHT |
|---|---|---|---|---|---|
| 1 | Pipe ASME B36.19M PE 3,38 SML ASTM A312 Gr.TP316/316L | 1 | PIPESS00480100 | 3717MM | 9.29 |
| 2 | Tee ASME B16.9 BW 3,38 WRS ASTM A403 Gr.WP316/316L | 1 x 1 | TEE0SS00550100 | 1 | 0.34 |
| 3 | Reducer Concentric ASME B16.9 BW 3,38x2,87 WRS ASTM A403 Gr.WP316/316L | 1 x 3/4 | REC0SS01200130Q | 1 | 0.14 |
| 4 | Tee Reducing ASME B16.9 BW 3,38x2,87 WRS ASTM A403 Gr.WP316/316L | 1 x 3/4 | TER0SS0171013Q | 1 | 0.34 |
| 5 | 90 Deg Elbow Long Radius ASME B16.9 BW 3,38 WRS ASTM A403 Gr.WP316/316L | 1 | E90RSS00670100 | 5 | 0.70 |
| 6 | Nipple L=100mm ASME B36.19M THRD-M NPT x PE 2,87 SML ASTM A312 Gr.TP316/316L | 3/4 | N100SS02653Q00 | 2 | 0.30 |
| 7 | Flange WN ASME B16.5 300LB RF 3,38 FRG ASTM A182 Gr.F316/316L | 1 | FLW0SS03270100 | 9 | 16.47 |
| 8 | Flange WN For Jackscrews ASME B16.5 300LB RF 3,38 FRG ASTM A182 Gr.F316/316L | 1 | FLWDSS00770100 | 1 | 1.83 |
| | SUPPORTS | | | | |
| 9 | /PS-02021.4 | 1 | | 1 | 0.50 |
| | | | TOTAL FABRICATION WEIGHT | | 29.91 |

ERECTION MATERIALS

| PT NO | COMPONENT DESCRIPTION | N.S. | ITEM CODE | Q.TY | WEIGHT |
|---|---|---|---|---|---|
| 10 | Spectacle Blinds ASME B16.48 THRU BOLTED 300LB RF FPL ASTM A240 Gr.TP316/316L | 1 | BSPESS01580100 | 1 | 0.51 |
| 11 | Cap Forged ASME B16.11 THRD-F NPT 3000# FRG ASTM A182 Gr.F316/316L | 3/4 | CAPFSS00023Q00 | 2 | 0.38 |
| 12 | Gasket Spiral Wound Thk. 3.2 mm ASME B16.20 300LB RF GSK AISI 316 + GRAPHITE c/w INNER RING | 1 | GSW0GK111210100 | 9 | 0.63 |
| 13 | Insulation Kit Ends as per ASME B16.5 300LB RF | 1 | SPIKNN01420100 | 1 | 0.07 |
| 14 | 105 Stud Bolt + 2 Heavy Nuts ASME B1.1 ASTM A193 Gr.B7 - A194 Gr.2H Hot dip galvanized | 5/8 | SB20BO04200300 | 4 | 1.08 |
| 15 | 80 Stud Bolt + 2 Heavy Nuts ASME B1.1 ASTM A193 Gr.B7 - A194 Gr.2H Hot dip galvanized | 5/8 | SB20BO01870300 | 32 | 7.36 |
| 16 | Double Block & Bleed Valve API 6D FLG 300LB RF DA03C01RFH | 1 | VLBBNN07190100 | 2 | 27.00 |
| | INSTRUMENTS | | | | |
| 17 | Control Valve - FLG 300 #RF 25-FV-036 | 1 | | 1 | 40.00 |
| 18 | Flow Transmitter - ANSI - FLG 300# 25-FT-036 | 1 | | 1 | 12.00 |
| | SUPPORTS | | | | |
| 19 | /PS-02020.1 | 1 | | 1 | 0.19 |
| 20 | /PS-02021.1 | 1 | | 1 | 0.19 |
| 21 | /PS-02021.3 | 1 | | 1 | 0.01 |
| 22 | /PS-02021.2 | 1 | | 1 | 0.19 |
| | | | TOTAL ERECTION WEIGHT | | 89.61 |
| | | | TOTAL WEIGHT | | 119.52 |

| REFERENCE DOCUMENTS | |
|---|---|
| 123A90-DDL-PP-RE-70001 | STRESS ANALYSIS REPORT |
| 123A90-DDL-PR-PID-80020 | P&ID |
| 123A90-DDL-MAT-SP-60003 | INSULATION SPECIFICATION |
| 123A90-DDL-MAT-SP-60006 | COATING & PAINTING SPEC. |
| 123A90-DDL-PP-00-72000 | PIPING SUPPORT BOOK |
| 123A90-DDL-PP-SP-70029 | PIPING MATERIAL CLASS |

SYMBOLS LEGEND:
BUTT WELD · THREADED · HEAT TRACING · SOCKET · PIPE SUPPORT · INSULATED

| NDT EXAMINATION | | | | INSULATION & PAINTING | | |
|---|---|---|---|---|---|---|
| NDT TYPE | % | NDT TYPE | % | INS. TYPE | INS. THK. | INS. SURF. (m²) |
| RT | 100 | VT | 100 | N | | |
| INSPECTION CATEGORY | 1 | MT/PT | 100Ratio | PAINT SYS. | BASE RAL | PAINT. SURF. (m²) |
| TESTING | | | | 6A | RAL 9002 | 0.63 |
| TEST FLUID | | TEST PRESS. (barg) | | HEAT TRACING | | |
| Water | | 60 | | - | | |
| PROCESS LINE DATA | | | | LINE DATA | | |
| DESIGN TEMP. (°C) | | DESIGN PRESS. (barg) | | STRESS SYS. | PED CAT. | PWHT |
| -29 | 80 | | 40 | - | II | No |

| Revision Number | Date | Description | Prepared by | Checked by | Approved by |
|---|---|---|---|---|---|
| 02 | 29/09/25 | AS-BUILT (ASB) | SPS | CBO | CGI |
| 01 | 12/07/24 | ACCEPTED FOR CONSTRUCTION | MMA | CBO | DLO |
| 00 | 07/06/24 | ISSUE FOR REVIEW | MMA | CBO | DLO |

ROSETTI MARINO

# CROSSWIND

DWG TYTLE:

# 1"-HY-190-03HSS-N

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK

SCALE N.A.

DRAWN SPS | CHECKED CBO | APPROVED CGI | DATE 29/09/25

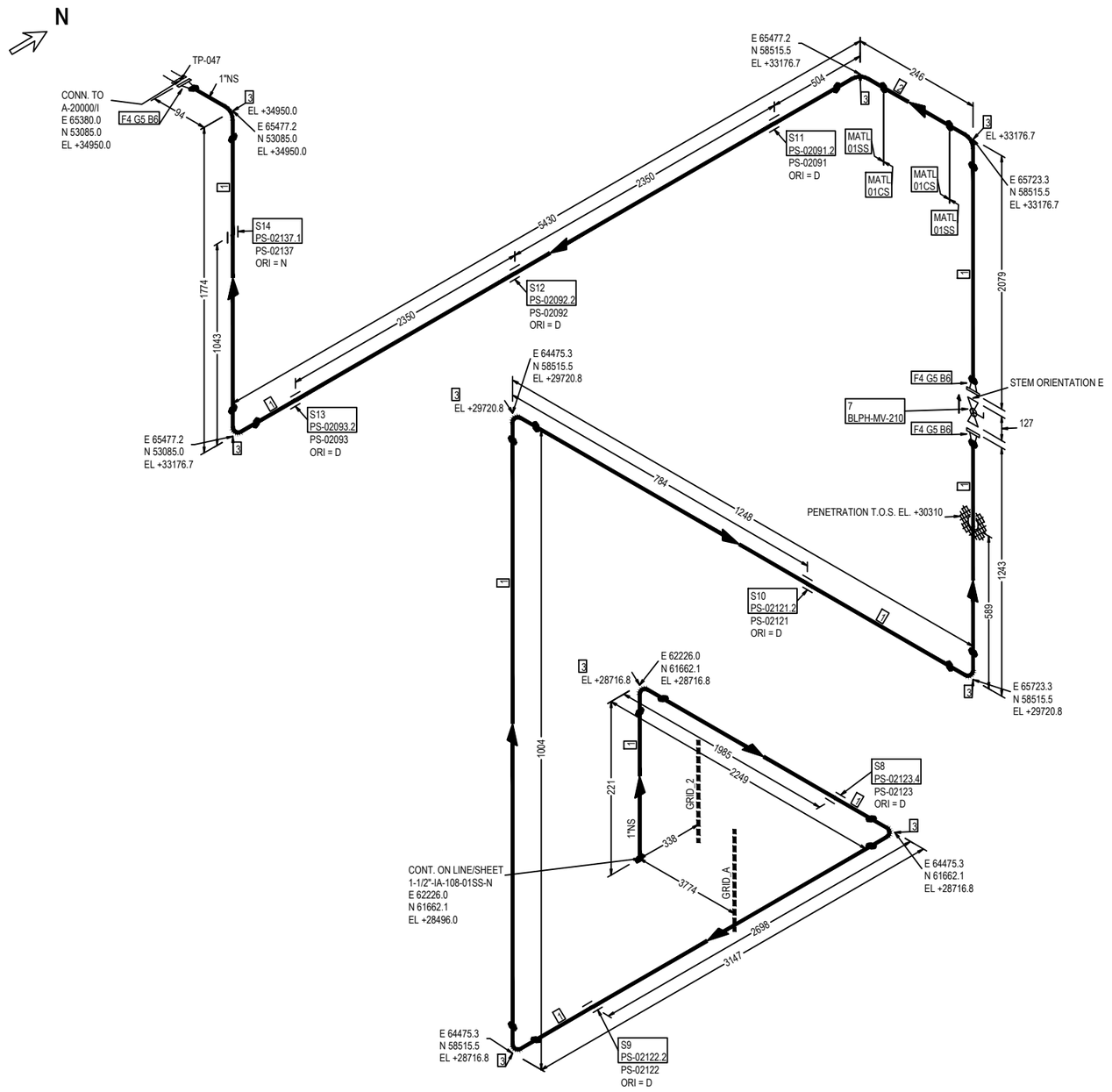
SIZE: A3

DRAWING NO. 123A90-DDL-PP-DI-71000_094

SHEET 1/1

REV. 02

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FABRICATION MATERIALS

| PT NO | COMPONENT DESCRIPTION | N.S. | ITEM CODE | Q.TY | WEIGHT |
|---|---|---|---|---|---|
| 1 | Pipe ASME B36.19M PE 3,38 SML ASTM A312 Gr.TP316/316L | 1 | PIPESS00480100 | 17713MM | 44.28 |
| 2 | Pipe ASME B36.10M PE 4,55 SML ASTM/ASME A/SA333 Gr.6 | 1 | PIPECS08300100 | 170MM | 0.54 |
| 3 | 90 Deg Elbow Long Radius ASME B16.9 BW 3,38 WRS ASTM A403 Gr.WP316/316L | 1 | E90RSS00670100 | 9 | 1.26 |
| 4 | Flange WN ASME B16.5 150LB RF 3,38 FRG ASTM A182 Gr.F316/316L | 1 | FLW0SS00930100 | 3 | 4.26 |
| | | | TOTAL FABRICATION WEIGHT | | 50.34 |

ERECTION MATERIALS

| PT NO | COMPONENT DESCRIPTION | N.S. | ITEM CODE | Q.TY | WEIGHT |
|---|---|---|---|---|---|
| 5 | Gasket Spiral Wound Thk. 3.2 mm ASME B16.20 150LB RF GSK AISI 316 + GRAPHITE c/w INNER RING | 1 | GSW0GK11100100 | 3 | 0.18 |
| 6 | 65 Stud Bolt + 2 Heavy Nuts ASME B1.1 ASTM A193 Gr.B7 - A194 Gr.2H Hot dip galvanized | 1/2 | SB20BO01080200 | 12 | 1.44 |
| 7 | Ball Valve Split Body FB API 6D FLG 150LB RF BS01C01RF | 1 | VBC0NN06950100 | 1 | 6.00 |
| | SUPPORTS | | | | |
| 8 | /PS-02123.4 | 1 | | 1 | 0.19 |
| 9 | /PS-02122.2 | 1 | | 1 | 0.19 |
| 10 | /PS-02121.2 | 1 | | 1 | 0.19 |
| 11 | /PS-02091.2 | 1 | | 1 | 0.19 |
| 12 | /PS-02092.2 | 1 | | 1 | 0.19 |
| 13 | /PS-02093.2 | 1 | | 1 | 0.19 |
| 14 | /PS-02137.1 | 1 | | 1 | 0.19 |
| | | | TOTAL ERECTION WEIGHT | | 8.95 |
| | | | TOTAL WEIGHT | | 59.29 |

| REFERENCE DOCUMENTS | |
|---|---|
| 123A90-DDL-PP-RE-70001 | STRESS ANALYSIS REPORT |
| 123A90-DDL-PR-PID-80041 | P&ID |
| 123A90-DDL-MAT-SP-60003 | INSULATION SPECIFICATION |
| 123A90-DDL-MAT-SP-60006 | COATING & PAINTING SPEC. |
| 123A90-DDL-PP-00-72000 | PIPING SUPPORT BOOK |
| 123A90-DDL-PP-SP-70029 | PIPING MATERIAL CLASS |

SYMBOLS LEGEND:
BUTT WELD — THREADED — HEAT TRACING
SOCKET — PIPE SUPPORT — INSULATED

| NDT EXAMINATION | | | |
|---|---|---|---|
| NDT TYPE | % | NDT TYPE | % |
| RT | 10 | VT | 100 |
| INSPECTION CATEGORY | 2 | MT/PT | 10 |
| TESTING | | | |
| TEST FLUID | | TEST PRESS.(barg) | |
| Water | | 18 | |
| PROCESS LINE DATA | | | |
| DESIGN TEMP. (°C) | | DESIGN PRESS.(barg) | |
| -29 | 100 | | 12 |

| INSULATION & PAINTING | | |
|---|---|---|
| INS. TYPE | INS. THK. | INS. SURF. (m²) |
| N | | |
| PAINT SYS. | BASE RAL | PAINT. SURF. (m²) |
| 6A | RAL 9002 | 1.94 |
| HEAT TRACING | | |
| - | | |
| LINE DATA | | |
| STRESS SYS. | PED CAT. | PWHT |
| - | Art. 4, par. 3 | No |

| Revision Number | Date | Description | Prepared by | Checked by | Approved by |
|---|---|---|---|---|---|
| 02 | 29/09/25 | AS-BUILT (ASB) | SPS | CBO | CGI |
| 01 | 26/07/24 | ACCEPTED FOR CONSTRUCTION | MMA | CBO | DLO |
| 00 | 07/06/24 | ISSUE FOR REVIEW | MMA | CBO | DLO |

ROSETTI MARINO

# CROSSWIND

DWG TYTLE:

## 1"-IA-191-01SS-N

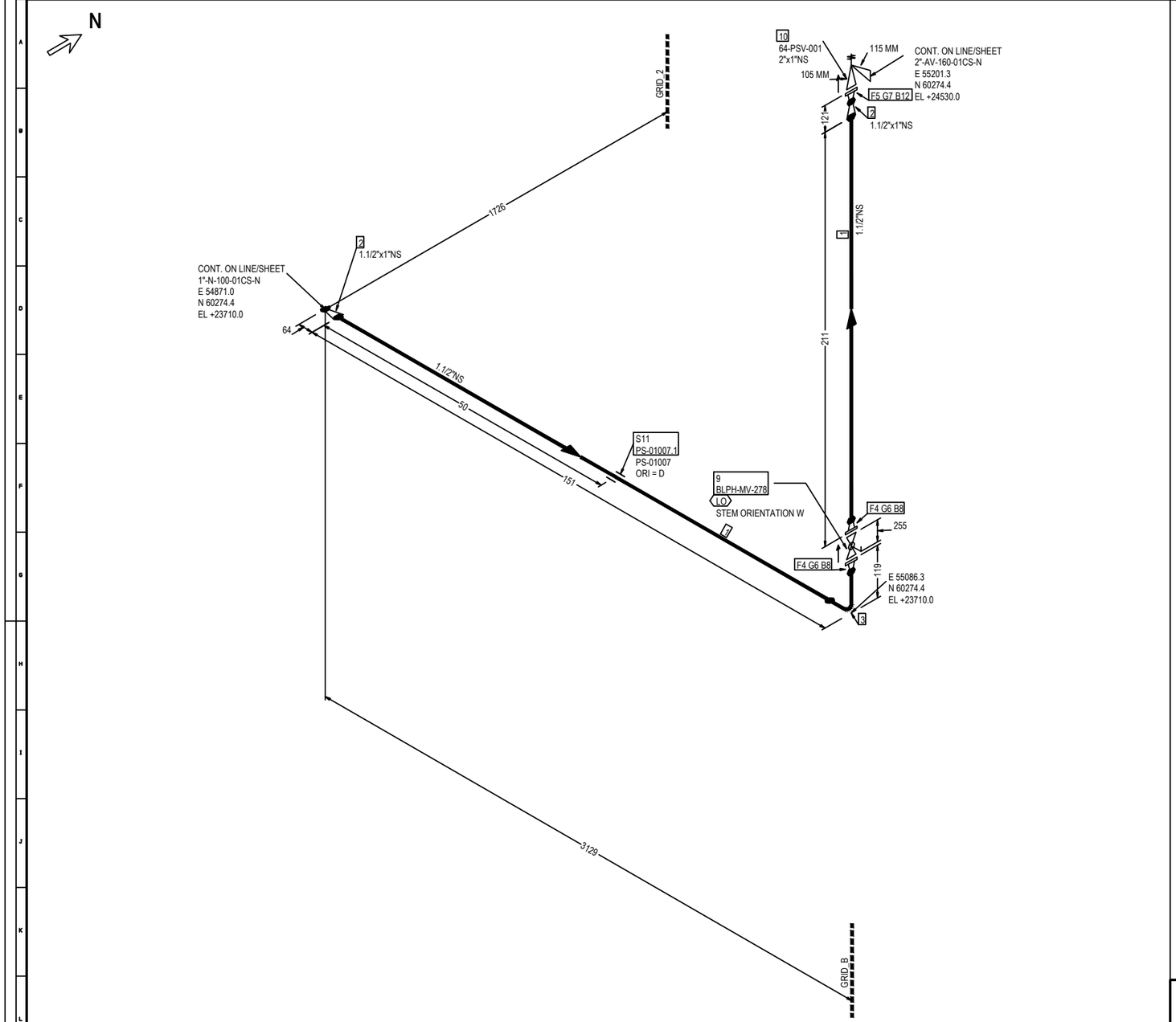
CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK

SCALE N.A.

DRAWN SPS | CHECKED CBO | APPROVED CGI | DATE 29/09/25

SIZE: A3 | DRAWING NO. 123A90-DDL-PP-DI-71000_095 | SHEET 1/1 | REV. 02

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FABRICATION MATERIALS

| PT NO | COMPONENT DESCRIPTION | N.S. | ITEM CODE | Q.TY | WEIGHT |
|---|---|---|---|---|---|
| 1 | Pipe ASME B36.10M PE 5,08 SML ASTM/ASME A/SA333 Gr.6 | 1.1/2 | PIPECS02951H00 | 243MM | 1.31 |
| 2 | Reducer Concentric ASME B16.9 BW 5,08x4,55 WRS ASTM/ASME A/SA420 Gr.WPL6 | 1.1/2 x 1 | REC0CS22091H01 | 2 | 0.72 |
| 3 | 90 Deg Elbow Long Radius ASME B16.9 BW 5,08 WRS ASTM/ASME A/SA420 Gr.WPL6 | 1.1/2 | E90RCS04991H00 | 1 | 0.51 |
| 4 | Flange WN ASME B16.5 150LB RF 5,08 FRG ASTM/ASME A/SA350 Gr.LF2 | 1.1/2 | FLW0CS16561H00 | 2 | 3.60 |
| 5 | Flange WN ASME B16.5 150LB RF 4,55 FRG ASTM/ASME A/SA350 Gr.LF2 | 1 | FLW0CS16540100 | 1 | 1.40 |
| | | | TOTAL FABRICATION WEIGHT | | 7.54 |

ERECTION MATERIALS

| PT NO | COMPONENT DESCRIPTION | N.S. | ITEM CODE | Q.TY | WEIGHT |
|---|---|---|---|---|---|
| 6 | Gasket Spiral Wound Thk. 3.2 mm ASME B16.20 150LB RF GSK AISI 316 + GRAPHITE c/w INNER RING | 1.1/2 | GSW0GK11121H00 | 2 | 0.14 |
| 7 | Insulation Kit Ends as per ASME B16.5 150LB RF | 1 | SPIKNN01220100 | 1 | 0.06 |
| 8 | 70 Stud Bolt + 2 Heavy Nuts ASME B1.1 ASTM A193 Gr.B7 - A194 Gr.2H Hot dip galvanized | 1/2 | SB20BO00930200 | 8 | 0.96 |
| 9 | Block & Bleed Valve API 6D FLG 150LB RF BS01B01RFS | 1.1/2 | VLBLNN01291H00 | 1 | 26.40 |
| 12 | 105 Stud Bolt + 2 Heavy Nuts ASME B1.1 ASTM A193 Gr.B7 - A194 Gr.2H Hot dip galvanized | 1/2 | SB20BO34450200 | 4 | 0.68 |
| | INSTRUMENTS | | | | |
| 10 | SAFETY VALVE FLG.150/150# 64-PSV-001 | 2 x 1 | | 1 | 15.00 |
| | SUPPORTS | | | | |
| 11 | /PS-01007.1 | 1.1/2 | | 1 | 0.29 |
| | | | TOTAL ERECTION WEIGHT | | 43.57 |
| | | | TOTAL WEIGHT | | 51.11 |

| REFERENCE DOCUMENTS | |
|---|---|
| 123A90-DDL-PP-RE-70001 | STRESS ANALYSIS REPORT |
| 123A90-DDL-PR-PID-80027 | P&ID |
| 123A90-DDL-MAT-SP-60003 | INSULATION SPECIFICATION |
| 123A90-DDL-MAT-SP-60006 | COATING & PAINTING SPEC. |
| 123A90-DDL-PP-00-72000 | PIPING SUPPORT BOOK |
| 123A90-DDL-PP-SP-70029 | PIPING MATERIAL CLASS |

SYMBOLS LEGEND:
BUTT WELD · THREADED · HEAT TRACING · SOCKET · PIPE SUPPORT · INSULATED

| NDT EXAMINATION | | | |
|---|---|---|---|
| NDT TYPE | % | NDT TYPE | % |
| RT | 10 | VT | 100 |
| INSPECTION CATEGORY | 2 | MT/PT | 10 |
| TESTING | | | |
| TEST FLUID | | TEST PRESS.(barg) | |
| Water | | 18 | |

| PROCESS LINE DATA | | | |
|---|---|---|---|
| DESIGN TEMP. (°C) | | DESIGN PRESS.(barg) | |
| -46 | 100 | | 12 |

| INSULATION & PAINTING | | |
|---|---|---|
| INS. TYPE | INS. THK. | INS. SURF. (m²) |
| N | | |
| PAINT SYS. | BASE RAL | PAINT. SURF. (m²) |
| 1 | RAL 9002 | 0.16 |
| HEAT TRACING | | |
| - | | |

| LINE DATA | | |
|---|---|---|
| STRESS SYS. | PED CAT. | PWHT |
| - | Art. 4, par. 3 | No |

| Revision Number | Date | Description | Prepared by | Checked by | Approved by |
|---|---|---|---|---|---|
| 02 | 29/09/25 | AS-BUILT (ASB) | SPS | CBO | CGI |
| 01 | 26/07/24 | ACCEPTED FOR CONSTRUCTION | MMA | CBO | DLO |
| 00 | 07/06/24 | ISSUE FOR REVIEW | MMA | CBO | DLO |

ROSETTI MARINO

# CROSSWIND

DWG TYTLE:

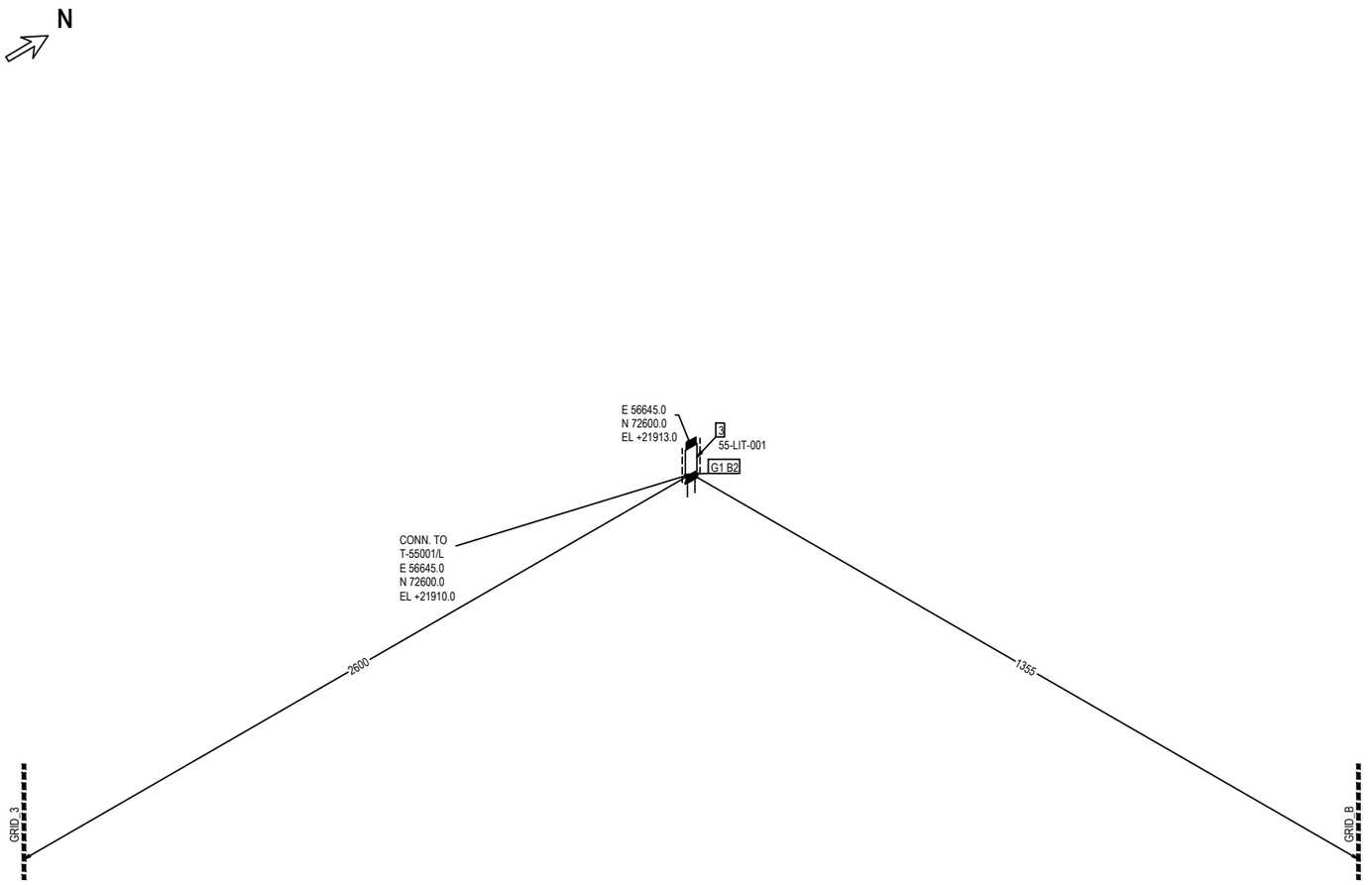
## 1-1/2"-N-197-01CS-N

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK | SCALE N.A.

DRAWN SPS | CHECKED CBO | APPROVED CGI | DATE 29/09/25

SIZE: A3 | DRAWING NO. 123A90-DDL-PP-DI-71000_097 | SHEET 1/1 | REV. 02

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ERECTION MATERIALS

| PT NO | COMPONENT DESCRIPTION | N.S. | ITEM CODE | Q.TY | WEIGHT |
|---|---|---|---|---|---|
| 1 | Insulation Kit Ends as per ASME B16.5 150LB RF | 3 | SPIKNN00570300 | 1 | 0.17 |
| 2 | 95 Stud Bolt + 2 Heavy Nuts ASME B1.1 ASTM A193 Gr.B7 - A194 Gr.2H Hot dip galvanized | 5/8 | SB20BO00670300 | 4 | 1.00 |
| | INSTRUMENTS | | | | |
| 3 | Level Transmitter-FLG 150#RF 55-LIT-001 | 3 | | 1 | --- |
| | | | TOTAL ERECTION WEIGHT | | 1.17 |
| | | | TOTAL WEIGHT | | 1.17 |

| REFERENCE DOCUMENTS | |
|---|---|
| 123A90-DDL-PP-RE-70001 | STRESS ANALYSIS REPORT |
| 123A90-DDL-PR-PID-80026 | P&ID |
| 123A90-DDL-MAT-SP-60003 | INSULATION SPECIFICATION |
| 123A90-DDL-MAT-SP-60006 | COATING & PAINTING SPEC. |
| 123A90-DDL-PP-00-72000 | PIPING SUPPORT BOOK |
| 123A90-DDL-PP-SP-70029 | PIPING MATERIAL CLASS |

SYMBOLS LEGEND:
BUTT WELD · THREADED · HEAT TRACING
SOCKET · PIPE SUPPORT · INSULATED

| NDT EXAMINATION | | | |
|---|---|---|---|
| NDT TYPE | % | NDT TYPE | % |
| RT | 10 | VT | 100 |
| INSPECTION CATEGORY | 2 | MT/PT | 10 |
| TESTING | | | |
| TEST FLUID | | TEST PRESS.(barg) | |
| Water | | 0.00 | |
| PROCESS LINE DATA | | | |
| DESIGN TEMP. (°C) | | DESIGN PRESS.(barg) | |
| -46 | 100 | | 0.005 |

| INSULATION & PAINTING | | |
|---|---|---|
| INS. TYPE | INS. THK. | INS. SURF. (m²) |
| H | 25mm | 0.00 |
| PAINT SYS. | BASE RAL | PAINT. SURF. (m²) |
| 9 | N/A | 0.00 |
| HEAT TRACING | | |
| - | | |
| LINE DATA | | |
| STRESS SYS. | PED CAT. | PWHT |
| - | Art. 4, par. 3 | No |

| Revision Number | Date | Description | Prepared by | Checked by | Approved by |
|---|---|---|---|---|---|
| 02 | 29/09/25 | AS-BUILT (ASB) | SPS | CBO | CGI |
| 01 | 26/07/24 | ACCEPTED FOR CONSTRUCTION | MMA | CBO | DLO |
| 00 | 07/06/24 | ISSUED FOR REVIEW | MMA | CBO | DLO |

ROSETTI MARINO

CROSSWIND

DWG TYTLE:

# 3"-WW-200-01CS-H

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK

SCALE N.A.

DRAWN SPS | CHECKED CBO | APPROVED CGI | DATE 29/09/25

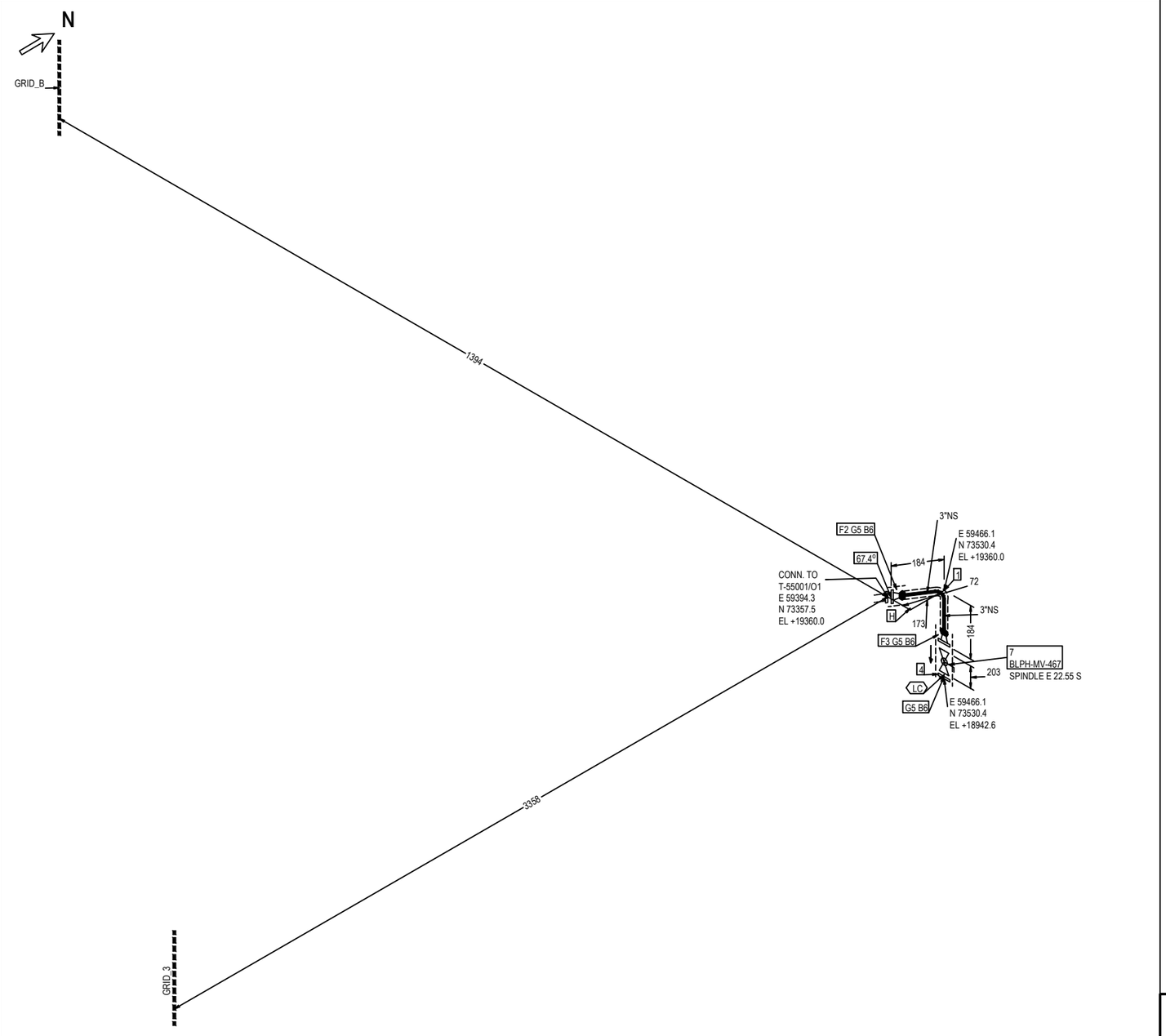
SIZE: A3

DRAWING NO. 123A90-DDL-PP-DI-71000_098

SHEET 1/1

REV. 02

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FABRICATION MATERIALS

| PT NO | COMPONENT DESCRIPTION | N.S. | ITEM CODE | Q.TY | WEIGHT |
|---|---|---|---|---|---|
| 1 | 90 Deg Elbow Long Radius ASME B16.9 BW 5,49 WRS ASTM/ASME A/SA420 Gr.WPL6 | 3 | E90RCS02830300 | 1 | 2.03 |
| 2 | Flange WN For Jackscrews ASME B16.5 150LB RF 5,49 FRG ASTM/ASME A/SA350 Gr.LF2 | 3 | FLWDCS00240300 | 1 | 4.50 |
| 3 | Flange WN ASME B16.5 150LB RF 5,49 FRG ASTM/ASME A/SA350 Gr.LF2 | 3 | FLW0CS03180300 | 1 | 4.50 |
| | | | TOTAL FABRICATION WEIGHT | | 11.03 |

ERECTION MATERIALS

| PT NO | COMPONENT DESCRIPTION | N.S. | ITEM CODE | Q.TY | WEIGHT |
|---|---|---|---|---|---|
| 4 | Flange Blind ASME B16.5 150LB RF FRG ASTM/ASME A/SA350 Gr.LF2 | 3 | FLB0CS07900300 | 1 | 4.50 |
| 5 | Gasket Spiral Wound Thk. 3.2 mm ASME B16.20 150LB RF GSK AISI 316 + GRAPHITE c/w INNER RING | 3 | GSW0GK11140300 | 3 | 0.51 |
| 6 | 90 Stud Bolt + 2 Heavy Nuts ASME B1.1 ASTM A193 Gr.B7 - A194 Gr.2H Hot dip galvanized | 5/8 | SB20BO04190300 | 12 | 3.00 |
| 7 | Ball Valve Split Body RB API 6D FLG 150LB RF BC01B01RF | 3 | VBD0NN16610300 | 1 | 25.00 |
| | | | TOTAL ERECTION WEIGHT | | 33.01 |
| | | | TOTAL WEIGHT | | 44.04 |

| REFERENCE DOCUMENTS | |
|---|---|
| 123A90-DDL-PP-RE-70001 | STRESS ANALYSIS REPORT |
| 123A90-DDL-PR-PID-80026 | P&ID |
| 123A90-DDL-MAT-SP-60003 | INSULATION SPECIFICATION |
| 123A90-DDL-MAT-SP-60006 | COATING & PAINTING SPEC. |
| 123A90-DDL-PP-00-72000 | PIPING SUPPORT BOOK |
| 123A90-DDL-PP-SP-70029 | PIPING MATERIAL CLASS |

SYMBOLS LEGEND:
BUTT WELD — THREADED — HEAT TRACING
SOCKET — PIPE SUPPORT — INSULATED

| NDT EXAMINATION | | | |
|---|---|---|---|
| NDT TYPE | % | NDT TYPE | % |
| RT | 10 | VT | 100 |
| INSPECTION CATEGORY | 2 | MT/PT | 10 |
| TESTING | | | |
| TEST FLUID | | TEST PRESS. (barg) | |
| Water | | 5.25 | |
| PROCESS LINE DATA | | | |
| DESIGN TEMP. (°C) | | DESIGN PRESS. (barg) | |
| -46 | 100 | | 3.5 |

| INSULATION & PAINTING | | |
|---|---|---|
| INS. TYPE | INS. THK. | INS. SURF. (m²) |
| H | 25mm | 0.39 |
| PAINT SYS. | BASE RAL | PAINT. SURF. (m²) |
| 9 | N/A | 0.16 |
| HEAT TRACING | | |
| - | | |
| LINE DATA | | |
| STRESS SYS. | PED CAT. | PWHT |
| - | Art. 4, par. 3 | No |

| Revision Number | Date | Description | Prepared by | Checked by | Approved by |
|---|---|---|---|---|---|
| 02 | 29/09/25 | AS-BUILT (ASB) | SPS | CBO | CGI |
| 01 | 26/07/24 | ACCEPTED FOR CONSTRUCTION | MMA | CBO | DLO |
| 00 | 07/06/24 | ISSUE FOR REVIEW | MMA | CBO | DLO |

ROSETTI MARINO

# CROSSWIND

DWG TYTLE:

## 3"-WW-201-01CS-H

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK

SCALE N.A.

DRAWN SPS | CHECKED CBO | APPROVED CGI | DATE 29/09/25

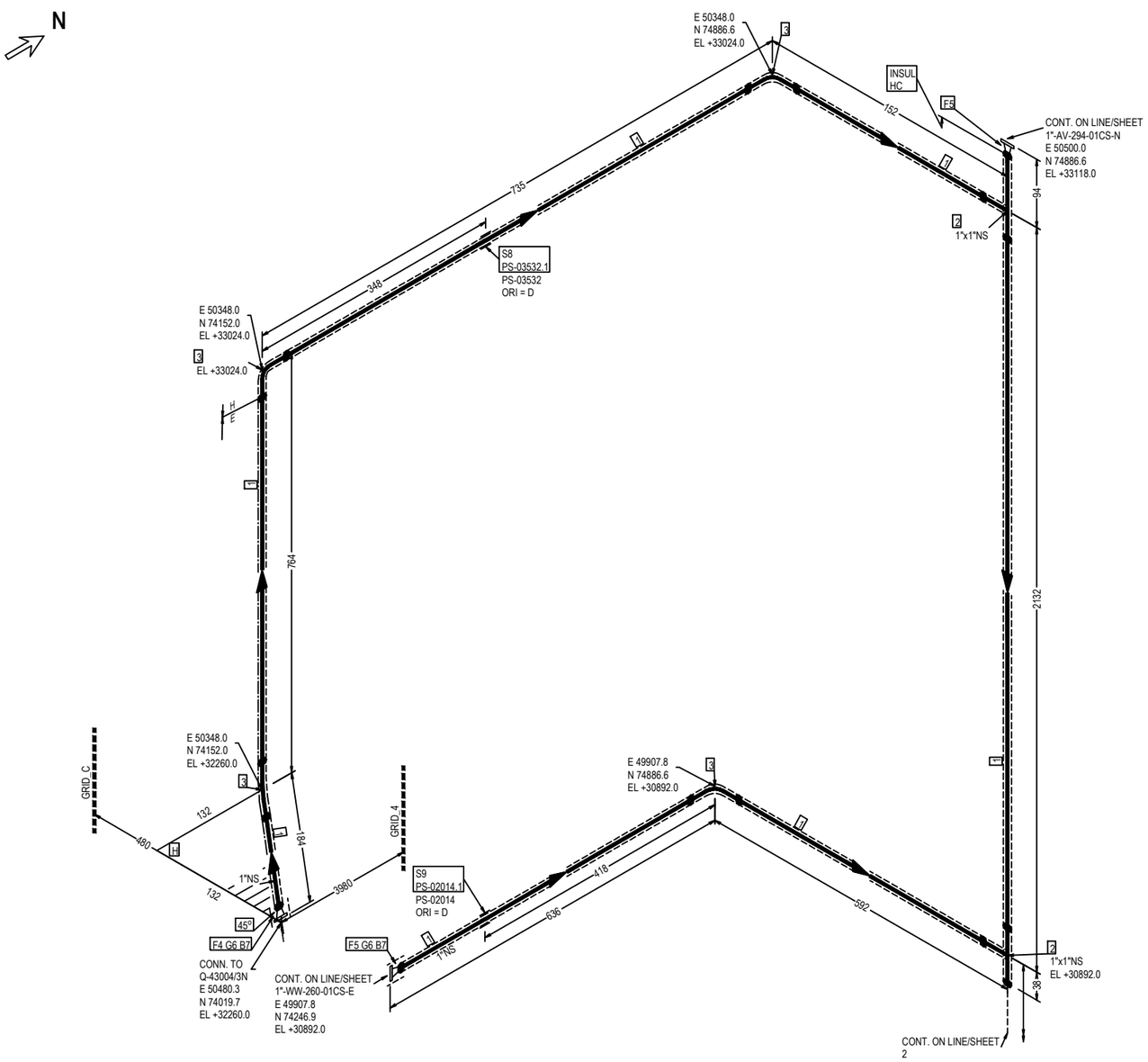
SIZE: A3

DRAWING NO. 123A90-DDL-PP-DI-71000_099

SHEET 1/1

REV. 02

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FABRICATION MATERIALS

| PT NO | COMPONENT DESCRIPTION | N.S. | ITEM CODE | Q.TY | WEIGHT |
|---|---|---|---|---|---|
| 1 | Pipe ASME B36.10M PE 4,55 SML ASTM/ASME A/SA333 Gr.6 | 1 | PIPECS08300100 | 4627MM | 14.81 |
| 2 | Tee ASME B16.9 BW 4,55 WRS ASTM/ASME A/SA420 Gr.WPL6 | 1 x 1 | TEE0CS01110100 | 2 | 0.92 |
| 3 | 90 Deg Elbow Long Radius ASME B16.9 BW 4,55 WRS ASTM/ASME A/SA420 Gr.WPL6 | 1 | E90RCS01780100 | 4 | 0.72 |
| 4 | Flange WN For Jackscrews ASME B16.5 150LB RF 4,55 FRG ASTM/ASME A/SA350 Gr.LF2 | 1 | FLWDCS02740100 | 1 | 1.40 |
| 5 | Flange WN ASME B16.5 150LB RF 4,55 FRG ASTM/ASME A/SA350 Gr.LF2 | 1 | FLW0CS16540100 | 2 | 2.80 |
| | | | TOTAL FABRICATION WEIGHT | | 20.65 |

ERECTION MATERIALS

| PT NO | COMPONENT DESCRIPTION | N.S. | ITEM CODE | Q.TY | WEIGHT |
|---|---|---|---|---|---|
| 6 | Gasket Spiral Wound Thk. 3.2 mm ASME B16.20 150LB RF GSK AISI 316 + GRAPHITE c/w INNER RING | 1 | GSW0GK11100100 | 2 | 0.12 |
| 7 | 65 Stud Bolt + 2 Heavy Nuts ASME B1.1 ASTM A193 Gr.B7 - A194 Gr.2H Hot dip galvanized | 1/2 | SB20BO01080200 | 8 | 0.96 |
| | SUPPORTS | | | | |
| 8 | /PS-03532.1 | 1 | | 1 | 2.31 |
| 9 | /PS-02014.1 | 1 | | 1 | 2.31 |
| | | | TOTAL ERECTION WEIGHT | | 5.70 |
| | | | TOTAL WEIGHT | | 26.35 |

| REFERENCE DOCUMENTS | |
|---|---|
| 123A90-DDL-PP-RE-70001 | STRESS ANALYSIS REPORT |
| 123A90-DDL-PR-PID-80029 | P&ID |
| 123A90-DDL-MAT-SP-60003 | INSULATION SPECIFICATION |
| 123A90-DDL-MAT-SP-60006 | COATING & PAINTING SPEC. |
| 123A90-DDL-PP-00-72000 | PIPING SUPPORT BOOK |
| 123A90-DDL-PP-SP-70029 | PIPING MATERIAL CLASS |

SYMBOLS LEGEND:
BUTT WELD · THREADED · HEAT TRACING · SOCKET · PIPE SUPPORT · INSULATED

| NDT EXAMINATION | | | |
|---|---|---|---|
| NDT TYPE | % | NDT TYPE | % |
| RT | 10 | VT | 100 |
| INSPECTION CATEGORY | 2 | MT/PT | 10 |

| TESTING | |
|---|---|
| TEST FLUID | TEST PRESS. (barg) |
| Water | 5.25 |

| PROCESS LINE DATA | | | |
|---|---|---|---|
| DESIGN TEMP. (°C) | | DESIGN PRESS. (barg) | |
| -46 | 100 | | 3.5 |

| INSULATION & PAINTING | | |
|---|---|---|
| INS. TYPE | INS. THK. | INS. SURF. (m²) |
| H | 20mm | 4.39 |
| PAINT SYS. | BASE RAL | PAINT. SURF. (m²) |
| 9 | N/A | 1.74 |

| HEAT TRACING | | |
|---|---|---|
| PARTIALITY | | |
| LINE DATA | | |
| STRESS SYS. | PED CAT. | PWHT |
| - | Art. 4, par. 3 | No |

| Revision Number | Date | Description | Prepared by | Checked by | Approved by |
|---|---|---|---|---|---|
| 02 | 29/09/25 | AS-BUILT (ASB) | SPS | CBO | CGI |
| 01 | 26/07/24 | ACCEPTED FOR CONSTRUCTION | MMA | CBO | DLO |
| 00 | 07/06/24 | ISSUE FOR REVIEW | MMA | CBO | DLO |

ROSETTI MARINO

# CROSSWIND

DWG TYTLE:

## 1"-WW-202-01CS-H

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK

SCALE N.A.

DRAWN SPS | CHECKED CBO | APPROVED CGI | DATE 29/09/25

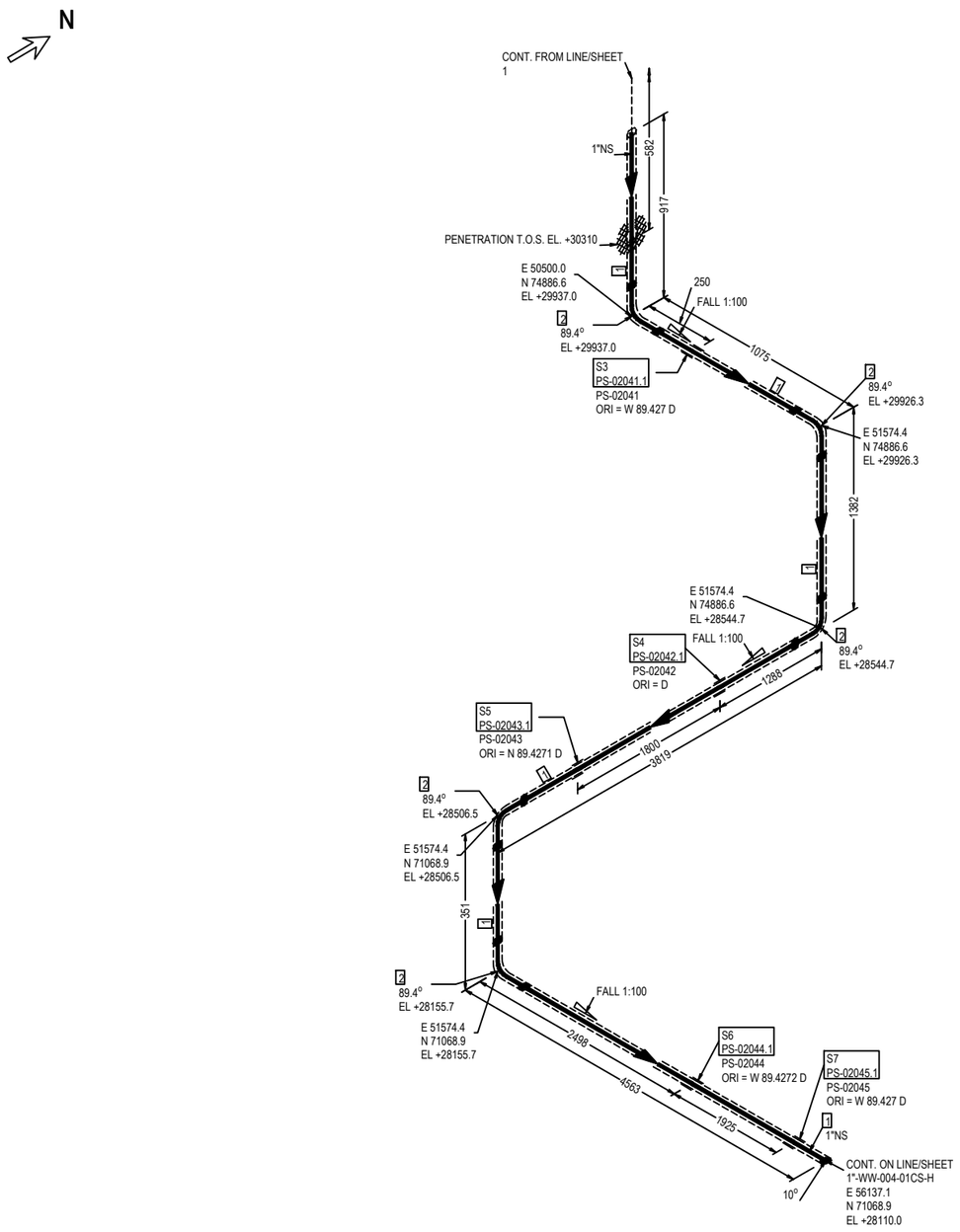
SIZE: A3

DRAWING NO. 123A90-DDL-PP-DI-71000_100

SHEET 1/2

REV. 02

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FABRICATION MATERIALS

| PT NO | COMPONENT DESCRIPTION | N.S. | ITEM CODE | Q.TY | WEIGHT |
|---|---|---|---|---|---|
| 1 | Pipe ASME B36.10M PE 4,55 SML ASTM/ASME A/SA333 Gr.6 | 1 | PIPECS08300100 | 11729MM | 37.53 |
| 2 | 90 Deg Elbow Long Radius ASME B16.9 BW 4,55 WRS ASTM/ASME A/SA420 Gr.WPL6 | 1 | E90RCS01780100 | 5 | 0.90 |
| | | | TOTAL FABRICATION WEIGHT | | 38.43 |

ERECTION MATERIALS

| PT NO | COMPONENT DESCRIPTION | N.S. | ITEM CODE | Q.TY | WEIGHT |
|---|---|---|---|---|---|
| | SUPPORTS | | | | |
| 3 | /PS-02041.1 | 1 | | 1 | 2.35 |
| 4 | /PS-02042.1 | 1 | | 1 | 2.36 |
| 5 | /PS-02043.1 | 1 | | 1 | 2.21 |
| 6 | /PS-02044.1 | 1 | | 1 | 2.36 |
| 7 | /PS-02045.1 | 1 | | 1 | 2.22 |
| | | | TOTAL ERECTION WEIGHT | | 11.50 |
| | | | TOTAL WEIGHT | | 49.93 |

| REFERENCE DOCUMENTS | |
|---|---|
| 123A90-DDL-PP-RE-70001 | STRESS ANALYSIS REPORT |
| 123A90-DDL-PR-PID-80029 | P&ID |
| 123A90-DDL-MAT-SP-60003 | INSULATION SPECIFICATION |
| 123A90-DDL-MAT-SP-60006 | COATING & PAINTING SPEC. |
| 123A90-DDL-PP-00-72000 | PIPING SUPPORT BOOK |
| 123A90-DDL-PP-SP-70029 | PIPING MATERIAL CLASS |

SYMBOLS LEGEND:
BUTT WELD — THREADED — HEAT TRACING
SOCKET — PIPE SUPPORT — INSULATED

| NDT EXAMINATION | | | |
|---|---|---|---|
| NDT TYPE | % | NDT TYPE | % |
| RT | 10 | VT | 100 |
| INSPECTION CATEGORY | 2 | MT/PT | 10 |
| TESTING | | | |
| TEST FLUID | | TEST PRESS.[barg] | |
| Water | | 5.25 | |
| PROCESS LINE DATA | | | |
| DESIGN TEMP. [°C] | | DESIGN PRESS.[barg] | |
| -46 | 100 | | 3.5 |

| INSULATION & PAINTING | | |
|---|---|---|
| INS. TYPE | INS. THK. | INS. SURF. [m²] |
| H | 20mm | SEE Sh1 |
| PAINT SYS. | BASE RAL | PAINT. SURF. [m²] |
| 9 | N/A | SEE Sh1 |
| HEAT TRACING | | |
| PARTIALITY | | |
| LINE DATA | | |
| STRESS SYS. | PED CAT. | PWHT |
| - | Art. 4, par. 3 | No |

| Revision Number | Date | Description | Prepared by | Checked by | Approved by |
|---|---|---|---|---|---|
| 02 | 29/09/25 | AS-BUILT (ASB) | SPS | CBO | CGI |
| 01 | 26/07/24 | ACCEPTED FOR CONSTRUCTION | MMA | CBO | DLO |
| 00 | 07/06/24 | ISSUE FOR REVIEW | MMA | CBO | DLO |

ROSETTI MARINO

CROSSWIND

DWG TYTLE:

# 1"-WW-202-01CS-H

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK

SCALE N.A.

DRAWN SPS | CHECKED CBO | APPROVED CGI | DATE 29/09/25

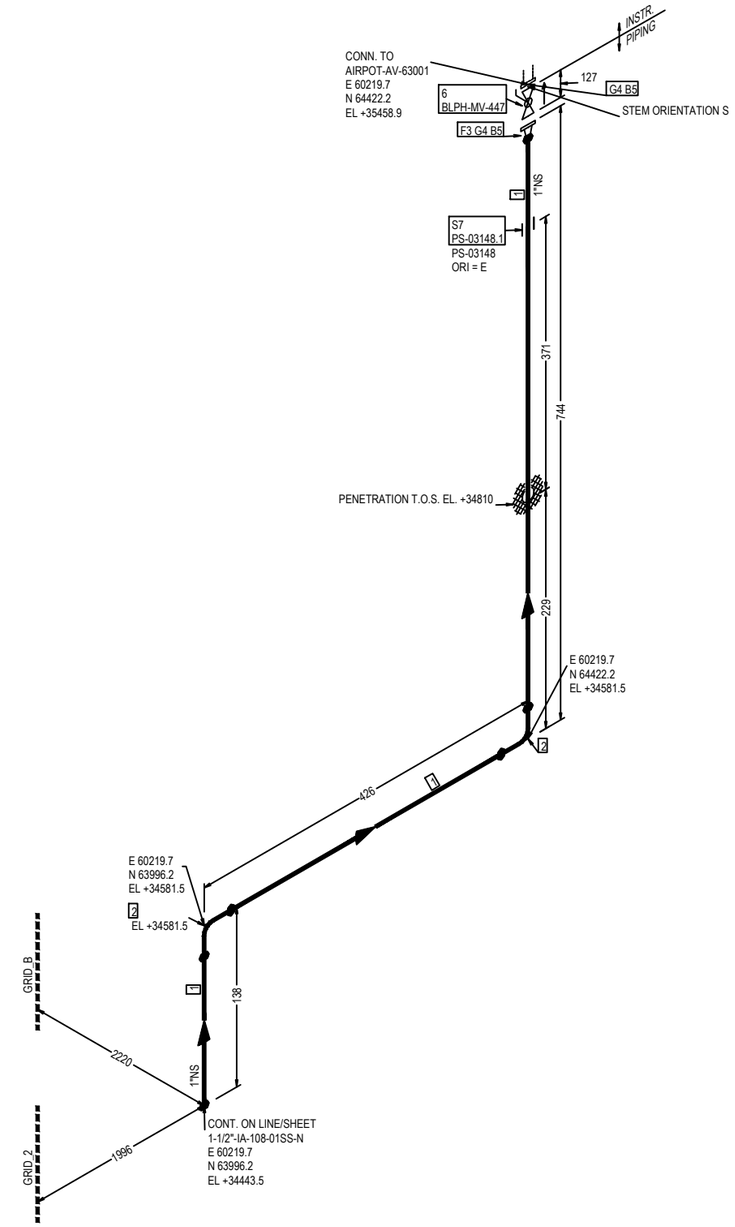
SIZE: A3

DRAWING NO. 123A90-DDL-PP-DI-71000_100

SHEET 2/2

REV. 02

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FABRICATION MATERIALS

| PT NO | COMPONENT DESCRIPTION | N.S. | ITEM CODE | Q.TY | WEIGHT |
|---|---|---|---|---|---|
| 1 | Pipe ASME B36.19M PE 3,38 SML ASTM A312 Gr.TP316/316L | 1 | PIPESS00480100 | 1100MM | 2.75 |
| 2 | 90 Deg Elbow Long Radius ASME B16.9 BW 3,38 WRS ASTM A403 Gr.WP316/316L | 1 | E90RSS00670100 | 2 | 0.28 |
| 3 | Flange WN ASME B16.5 150LB RF 3,38 FRG ASTM A182 Gr.F316/316L | 1 | FLW0SS00930100 | 1 | 1.42 |
| | | | TOTAL FABRICATION WEIGHT | | 4.45 |

ERECTION MATERIALS

| PT NO | COMPONENT DESCRIPTION | N.S. | ITEM CODE | Q.TY | WEIGHT |
|---|---|---|---|---|---|
| 4 | Gasket Spiral Wound Thk. 3.2 mm ASME B16.20 150LB RF GSK AISI 316 + GRAPHITE c/w INNER RING | 1 | GSW0GK11100100 | 2 | 0.12 |
| 5 | 65 Stud Bolt + 2 Heavy Nuts ASME B1.1 ASTM A193 Gr.B7 - A194 Gr.2H Hot dip galvanized | 1/2 | SB20BO01080200 | 8 | 0.96 |
| 6 | Ball Valve Split Body FB API 6D FLG 150LB RF BS01C01RF | 1 | VBC0NN06950100 | 1 | 6.00 |
| | SUPPORTS | | | | |
| 7 | /PS-03148.1 | 1 | | 1 | 0.19 |
| | | | TOTAL ERECTION WEIGHT | | 7.27 |
| | | | TOTAL WEIGHT | | 11.72 |

| REFERENCE DOCUMENTS | |
|---|---|
| 123A90-DDL-PP-RE-70001 | STRESS ANALYSIS REPORT |
| 123A90-DDL-PR-PID-80041 | P&ID |
| 123A90-DDL-MAT-SP-60003 | INSULATION SPECIFICATION |
| 123A90-DDL-MAT-SP-60006 | COATING & PAINTING SPEC. |
| 123A90-DDL-PP-00-72000 | PIPING SUPPORT BOOK |
| 123A90-DDL-PP-SP-70029 | PIPING MATERIAL CLASS |

SYMBOLS LEGEND:
BUTT WELD · THREADED · HEAT TRACING · SOCKET · PIPE SUPPORT · INSULATED

| NDT EXAMINATION | | | |
|---|---|---|---|
| NDT TYPE | % | NDT TYPE | % |
| RT | 10 | VT | 100 |
| INSPECTION CATEGORY | 2 | MT/PT | 10 |
| TESTING | | | |
| TEST FLUID | | TEST PRESS. [barg] | |
| Water | | 18 | |
| PROCESS LINE DATA | | | |
| DESIGN TEMP. [°C] | | DESIGN PRESS. [barg] | |
| -29 | 100 | | 12 |

| INSULATION & PAINTING | | |
|---|---|---|
| INS. TYPE | INS. THK. | INS. SURF. [m²] |
| N | | |
| PAINT SYS. | BASE RAL | PAINT. SURF. [m²] |
| 6A | RAL 9002 | 0.15 |
| HEAT TRACING | | |
| - | | |
| LINE DATA | | |
| STRESS SYS. | PED CAT. | PWHT |
| - | Art. 4, par. 3 | No |

| Revision Number | Date | Description | Prepared by | Checked by | Approved by |
|---|---|---|---|---|---|
| 02 | 29/09/25 | AS-BUILT (ASB) | SPS | CBO | CGI |
| 01 | 26/07/24 | ACCEPTED FOR CONSTRUCTION | MMA | CBO | DLO |
| 00 | 07/06/24 | ISSUE FOR REVIEW | MMA | CBO | DLO |

ROSETTI MARINO

# CROSSWIND

DWG TYTLE:

## 1"-IA-203-01SS-N

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK

SCALE N.A.

DRAWN SPS | CHECKED CBO | APPROVED CGI | DATE 29/09/25

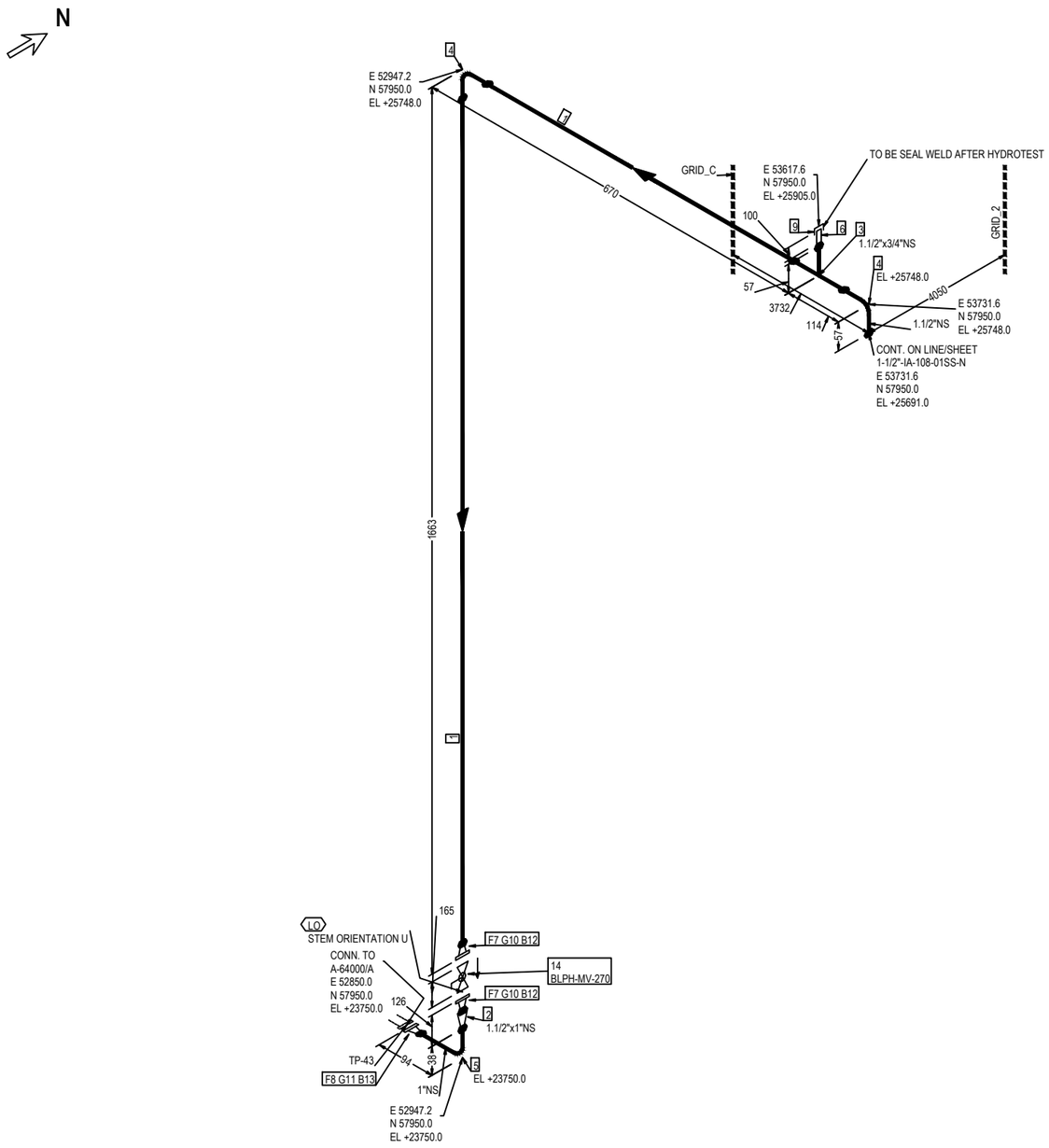
SIZE: A3

DRAWING NO. 123A90-DDL-PP-DI-71000_101

SHEET 1/1

REV. 02

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FABRICATION MATERIALS

| PT NO | COMPONENT DESCRIPTION | N.S. | ITEM CODE | Q.TY | WEIGHT |
|---|---|---|---|---|---|
| 1 | Pipe ASME B36.19M PE 3,68 SML ASTM A312 Gr.TP316/316L | 1.1/2 | PIPESS00531H00 | 2100MM | 8.61 |
| 2 | Reducer Concentric ASME B16.9 BW 3,68x3,38 WRS ASTM A403 Gr.WP316/316L | 1.1/2 x 1 | REC0SS03191H01 | 1 | 0.26 |
| 3 | Tee Reducing ASME B16.9 BW 3,68x2,87 WRS ASTM A403 Gr.WP316/316L | 1.1/2 x 3/4 | TER0SS03751H3Q | 1 | 0.75 |
| 4 | 90 Deg Elbow Long Radius ASME B16.9 BW 3,68 WRS ASTM A403 Gr.WP316/316L | 1.1/2 | E90RSS00681H00 | 2 | 0.74 |
| 5 | 90 Deg Elbow Long Radius ASME B16.9 BW 3,38 WRS ASTM A403 Gr.WP316/316L | 1 | E90RSS00670100 | 1 | 0.14 |
| 6 | Nipple L=100mm ASME B36.19M THRD-M NPT x PE 2,87 SML ASTM A312 Gr.TP316/316L | 3/4 | N100SS02653Q00 | 1 | 0.15 |
| 7 | Flange WN ASME B16.5 150LB RF 3,68 FRG ASTM A182 Gr.F316/316L | 1.1/2 | FLW0SS00941H00 | 2 | 3.66 |
| 8 | Flange WN ASME B16.5 150LB RF 3,38 FRG ASTM A182 Gr.F316/316L | 1 | FLW0SS00930100 | 1 | 1.42 |
| | | | TOTAL FABRICATION WEIGHT | | 15.73 |

ERECTION MATERIALS

| PT NO | COMPONENT DESCRIPTION | N.S. | ITEM CODE | Q.TY | WEIGHT |
|---|---|---|---|---|---|
| 9 | Cap Forged ASME B16.11 THRD-F NPT 3000# FRG ASTM A182 Gr.F316/316L | 3/4 | CAPFSS00023Q00 | 1 | 0.19 |
| 10 | Gasket Spiral Wound Thk. 3.2 mm ASME B16.20 150LB RF GSK AISI 316 + GRAPHITE c/w INNER RING | 1.1/2 | GSW0GK11121H00 | 2 | 0.14 |
| 11 | Gasket Spiral Wound Thk. 3.2 mm ASME B16.20 150LB RF GSK AISI 316 + GRAPHITE c/w INNER RING | 1 | GSW0GK11100100 | 1 | 0.06 |
| 12 | 70 Stud Bolt + 2 Heavy Nuts ASME B1.1 ASTM A193 Gr.B7 - A194 Gr.2H Hot dip galvanized | 1/2 | SB20BO00930200 | 8 | 0.96 |
| 13 | 65 Stud Bolt + 2 Heavy Nuts ASME B1.1 ASTM A193 Gr.B7 - A194 Gr.2H Hot dip galvanized | 1/2 | SB20BO01080200 | 4 | 0.48 |
| 14 | Ball Valve Split Body FB API 6D FLG 150LB RF BS01C01RF | 1.1/2 | VBC0NN06961H00 | 1 | 12.70 |
| | | | TOTAL ERECTION WEIGHT | | 14.53 |
| | | | TOTAL WEIGHT | | 30.26 |

| REFERENCE DOCUMENTS | |
|---|---|
| 123A90-DDL-PP-RE-70001 | STRESS ANALYSIS REPORT |
| 123A90-DDL-PR-PID-80027 | P&ID |
| 123A90-DDL-MAT-SP-60003 | INSULATION SPECIFICATION |
| 123A90-DDL-MAT-SP-60006 | COATING & PAINTING SPEC. |
| 123A90-DDL-PP-00-72000 | PIPING SUPPORT BOOK |
| 123A90-DDL-PP-SP-70029 | PIPING MATERIAL CLASS |

SYMBOLS LEGEND:
BUTT WELD — THREADED — HEAT TRACING
SOCKET — PIPE SUPPORT — INSULATED

| NDT EXAMINATION | | | |
|---|---|---|---|
| NDT TYPE | % | NDT TYPE | % |
| RT | 10 | VT | 100 |
| INSPECTION CATEGORY | 2 | MT/PT | 10 |

| TESTING | |
|---|---|
| TEST FLUID | TEST PRESS. (barg) |
| Water | 18 |

| PROCESS LINE DATA | | | |
|---|---|---|---|
| DESIGN TEMP. (°C) | | DESIGN PRESS. (barg) | |
| -29 | 100 | | 12 |

| INSULATION & PAINTING | | |
|---|---|---|
| INS. TYPE | INS. THK. | INS. SURF. (m²) |
| N | | |
| PAINT SYS. | BASE RAL | PAINT. SURF. (m²) |
| 6A | RAL 9002 | 0.44 |

| HEAT TRACING |
|---|
| - |

| LINE DATA | | |
|---|---|---|
| STRESS SYS. | PED CAT. | PWHT |
| - | Art. 4, par. 3 | No |

| Revision Number | Date | Description | Prepared by | Checked by | Approved by |
|---|---|---|---|---|---|
| 02 | 29/09/25 | AS-BUILT (ASB) | SPS | CBO | CGI |
| 01 | 26/07/24 | ACCEPTED FOR CONSTRUCTION | MMA | CBO | DLO |
| 00 | 07/06/24 | ISSUE FOR REVIEW | MMA | CBO | DLO |

ROSETTI MARINO

# CROSSWIND

DWG TYTLE:

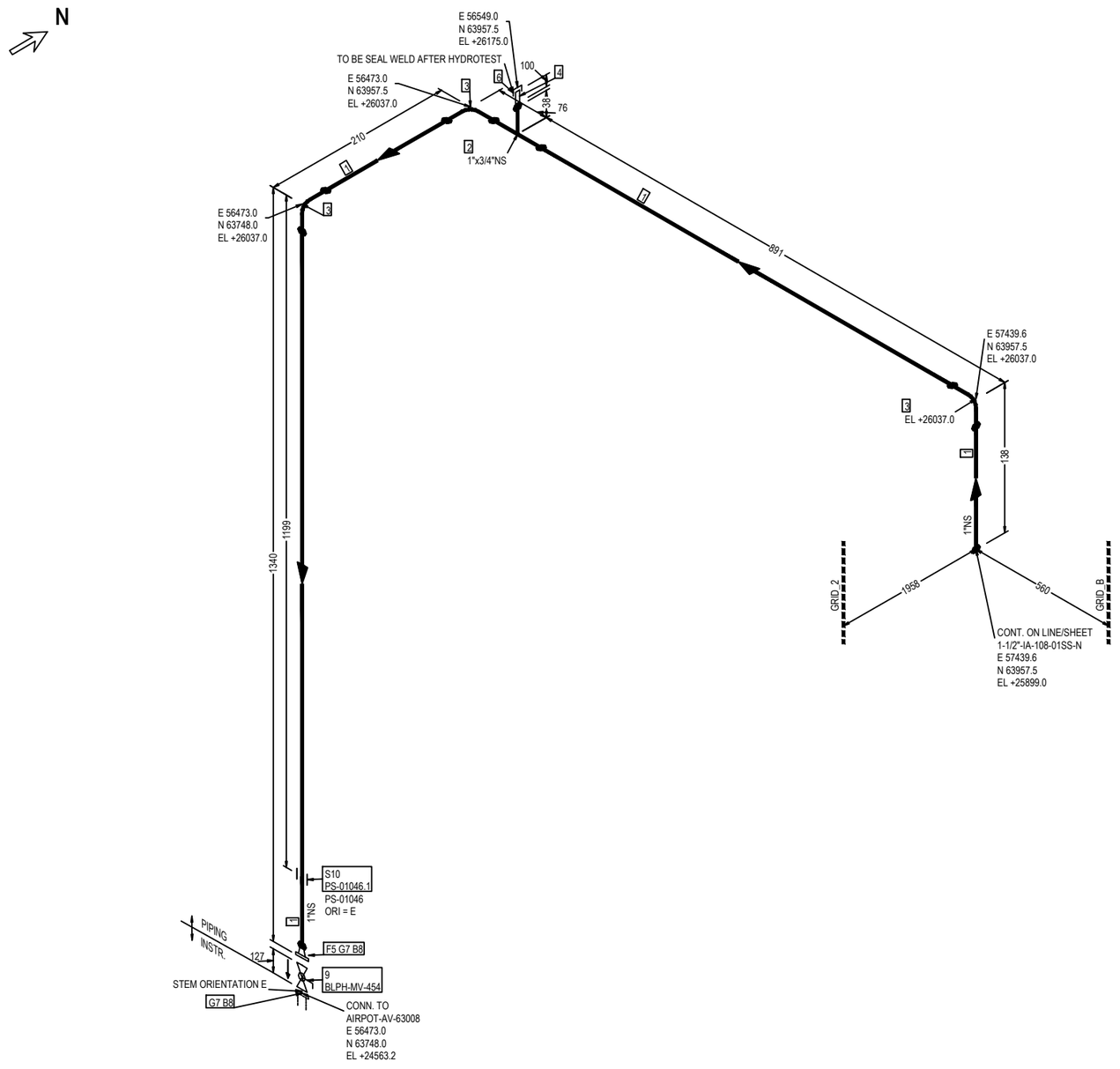
## 1-1/2"-IA-204-01SS-N

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK | SCALE N.A.

DRAWN SPS | CHECKED CBO | APPROVED CGI | DATE 29/09/25

SIZE: A3 | DRAWING NO. 123A90-DDL-PP-DI-71000_102 | SHEET 1/1 | REV. 02

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FABRICATION MATERIALS

| PT NO | COMPONENT DESCRIPTION | N.S. | ITEM CODE | Q.TY | WEIGHT |
|---|---|---|---|---|---|
| 1 | Pipe ASME B36.19M PE 3,38 SML ASTM A312 Gr.TP316/316L | 1 | PIPESS00480100 | 2295MM | 5.74 |
| 2 | Tee Reducing ASME B16.9 BW 3,38x2,87 WRS ASTM A403 Gr.WP316/316L | 1 x 3/4 | TER0SS0171013Q | 1 | 0.34 |
| 3 | 90 Deg Elbow Long Radius ASME B16.9 BW 3,38 WRS ASTM A403 Gr.WP316/316L | 1 | E90RSS00670100 | 3 | 0.42 |
| 4 | Nipple L=100mm ASME B36.19M THRD-M NPT x PE 2,87 SML ASTM A312 Gr.TP316/316L | 3/4 | N100SS02653Q00 | 1 | 0.15 |
| 5 | Flange WN ASME B16.5 150LB RF 3,38 FRG ASTM A182 Gr.F316/316L | 1 | FLW0SS00930100 | 1 | 1.42 |
| | | | TOTAL FABRICATION WEIGHT | | 8.07 |

ERECTION MATERIALS

| PT NO | COMPONENT DESCRIPTION | N.S. | ITEM CODE | Q.TY | WEIGHT |
|---|---|---|---|---|---|
| 6 | Cap Forged ASME B16.11 THRD-F NPT 3000# FRG ASTM A182 Gr.F316/316L | 3/4 | CAPFSS00023Q00 | 1 | 0.19 |
| 7 | Gasket Spiral Wound Thk. 3.2 mm ASME B16.20 150LB RF GSK AISI 316 + GRAPHITE c/w INNER RING | 1 | GSW0GK11100100 | 2 | 0.12 |
| 8 | 65 Stud Bolt + 2 Heavy Nuts ASME B1.1 ASTM A193 Gr.B7 - A194 Gr.2H Hot dip galvanized | 1/2 | SB20BO01080200 | 8 | 0.96 |
| 9 | Ball Valve Split Body FB API 6D FLG 150LB RF BS01C01RF | 1 | VBC0NN06950100 | 1 | 6.00 |
| | SUPPORTS | | | | |
| 10 | /PS-01046.1 | 1 | | 1 | 0.19 |
| | | | TOTAL ERECTION WEIGHT | | 7.46 |
| | | | TOTAL WEIGHT | | 15.53 |

| REFERENCE DOCUMENTS | |
|---|---|
| 123A90-DDL-PP-RE-70001 | STRESS ANALYSIS REPORT |
| 123A90-DDL-PR-PID-80041 | P&ID |
| 123A90-DDL-MAT-SP-60003 | INSULATION SPECIFICATION |
| 123A90-DDL-MAT-SP-60006 | COATING & PAINTING SPEC. |
| 123A90-DDL-PP-00-72000 | PIPING SUPPORT BOOK |
| 123A90-DDL-PP-SP-70029 | PIPING MATERIAL CLASS |

SYMBOLS LEGEND:
BUTT WELD — THREADED — HEAT TRACING
SOCKET — PIPE SUPPORT — INSULATED

| NDT EXAMINATION | | | |
|---|---|---|---|
| NDT TYPE | % | NDT TYPE | % |
| RT | 10 | VT | 100 |
| INSPECTION CATEGORY | 2 | MT/PT | 10 |
| TESTING | | | |
| TEST FLUID | | TEST PRESS. (barg) | |
| Water | | 18 | |
| PROCESS LINE DATA | | | |
| DESIGN TEMP. (°C) | | DESIGN PRESS. (barg) | |
| -29 | 100 | | 12 |

| INSULATION & PAINTING | | |
|---|---|---|
| INS. TYPE | INS. THK. | INS. SURF. (m²) |
| N | | |
| PAINT SYS. | BASE RAL | PAINT. SURF. (m²) |
| 6A | RAL 9002 | 0.30 |
| HEAT TRACING | | |
| - | | |
| LINE DATA | | |
| STRESS SYS. | PED CAT. | PWHT |
| - | Art. 4, par. 3 | No |

| Revision Number | Date | Description | Prepared by | Checked by | Approved by |
|---|---|---|---|---|---|
| 02 | 29/09/25 | AS-BUILT (ASB) | SPS | CBO | CGI |
| 01 | 26/07/24 | ACCEPTED FOR CONSTRUCTION | MMA | CBO | DLO |
| 00 | 07/06/24 | ISSUE FOR REVIEW | MMA | CBO | DLO |

ROSETTI MARINO

# CROSSWIND

DWG TYTLE:

# 1"-IA-205-01SS-N

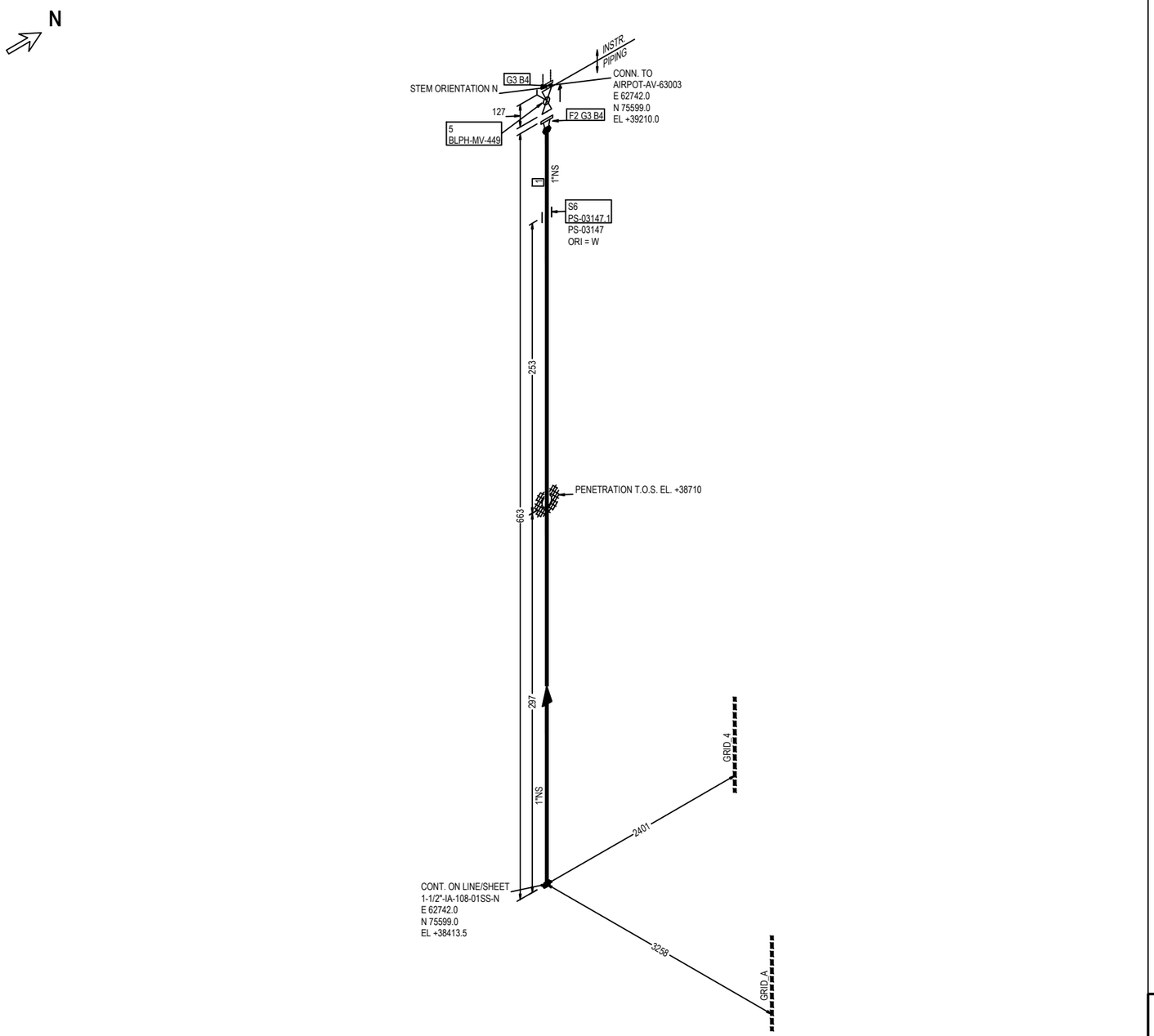
CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK

SCALE N.A.

DRAWN SPS | CHECKED CBO | APPROVED CGI | DATE 29/09/25

SIZE: A3 | DRAWING NO. 123A90-DDL-PP-DI-71000_103 | SHEET 1/1 | REV. 02

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FABRICATION MATERIALS

| PT NO | COMPONENT DESCRIPTION | N.S. | ITEM CODE | Q.TY | WEIGHT |
|---|---|---|---|---|---|
| 1 | Pipe ASME B36.19M PE 3,38 SML ASTM A312 Gr.TP316/316L | 1 | PIPESS00480100 | 607MM | 1.52 |
| 2 | Flange WN ASME B16.5 150LB RF 3,38 FRG ASTM A182 Gr.F316/316L | 1 | FLW0SS00930100 | 1 | 1.42 |
| | | | TOTAL FABRICATION WEIGHT | | 2.94 |

ERECTION MATERIALS

| PT NO | COMPONENT DESCRIPTION | N.S. | ITEM CODE | Q.TY | WEIGHT |
|---|---|---|---|---|---|
| 3 | Gasket Spiral Wound Thk. 3.2 mm ASME B16.20 150LB RF GSK AISI 316 + GRAPHITE c/w INNER RING | 1 | GSW0GK11100100 | 2 | 0.12 |
| 4 | 65 Stud Bolt + 2 Heavy Nuts ASME B1.1 ASTM A193 Gr.B7 - A194 Gr.2H Hot dip galvanized | 1/2 | SB20BO01080200 | 8 | 0.96 |
| 5 | Ball Valve Split Body FB API 6D FLG 150LB RF BS01C01RF | 1 | VBC0NN06950100 | 1 | 6.00 |
| | SUPPORTS | | | | |
| 6 | /PS-03147.1 | 1 | | 1 | 0.19 |
| | | | TOTAL ERECTION WEIGHT | | 7.27 |
| | | | TOTAL WEIGHT | | 10.21 |

| REFERENCE DOCUMENTS | |
|---|---|
| 123A90-DDL-PP-RE-70001 | STRESS ANALYSIS REPORT |
| 123A90-DDL-PR-PID-80041 | P&ID |
| 123A90-DDL-MAT-SP-60003 | INSULATION SPECIFICATION |
| 123A90-DDL-MAT-SP-60006 | COATING & PAINTING SPEC. |
| 123A90-DDL-PP-00-72000 | PIPING SUPPORT BOOK |
| 123A90-DDL-PP-SP-70029 | PIPING MATERIAL CLASS |

SYMBOLS LEGEND:
BUTT WELD · THREADED · HEAT TRACING · SOCKET · PIPE SUPPORT · INSULATED

| NDT EXAMINATION | | | |
|---|---|---|---|
| NDT TYPE | % | NDT TYPE | % |
| RT | 10 | VT | 100 |
| INSPECTION CATEGORY | 2 | MT/PT | 10 |

| TESTING | |
|---|---|
| TEST FLUID | TEST PRESS. (barg) |
| Water | 18 |

| PROCESS LINE DATA | | | |
|---|---|---|---|
| DESIGN TEMP. (°C) | | DESIGN PRESS. (barg) | |
| -29 | 100 | | 12 |

| INSULATION & PAINTING | | |
|---|---|---|
| INS. TYPE | INS. THK. | INS. SURF. (m²) |
| N | | |
| PAINT SYS. | BASE RAL | PAINT. SURF. (m²) |
| 6A | RAL 9002 | 0.08 |
| HEAT TRACING | | |
| - | | |
| LINE DATA | | |
| STRESS SYS. | PED CAT. | PWHT |
| - | Art. 4, par. 3 | No |

| Revision Number | Date | Description | Prepared by | Checked by | Approved by |
|---|---|---|---|---|---|
| 02 | 29/09/25 | AS-BUILT (ASB) | SPS | CBO | CGI |
| 01 | 26/07/24 | ACCEPTED FOR CONSTRUCTION | MMA | CBO | DLO |
| 00 | 07/06/24 | ISSUE FOR REVIEW | MMA | CBO | DLO |

ROSETTI MARINO

# CROSSWIND

DWG TYTLE:

## 1"-IA-206-01SS-N

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK

SCALE N.A.

DRAWN SPS | CHECKED CBO | APPROVED CGI | DATE 29/09/25

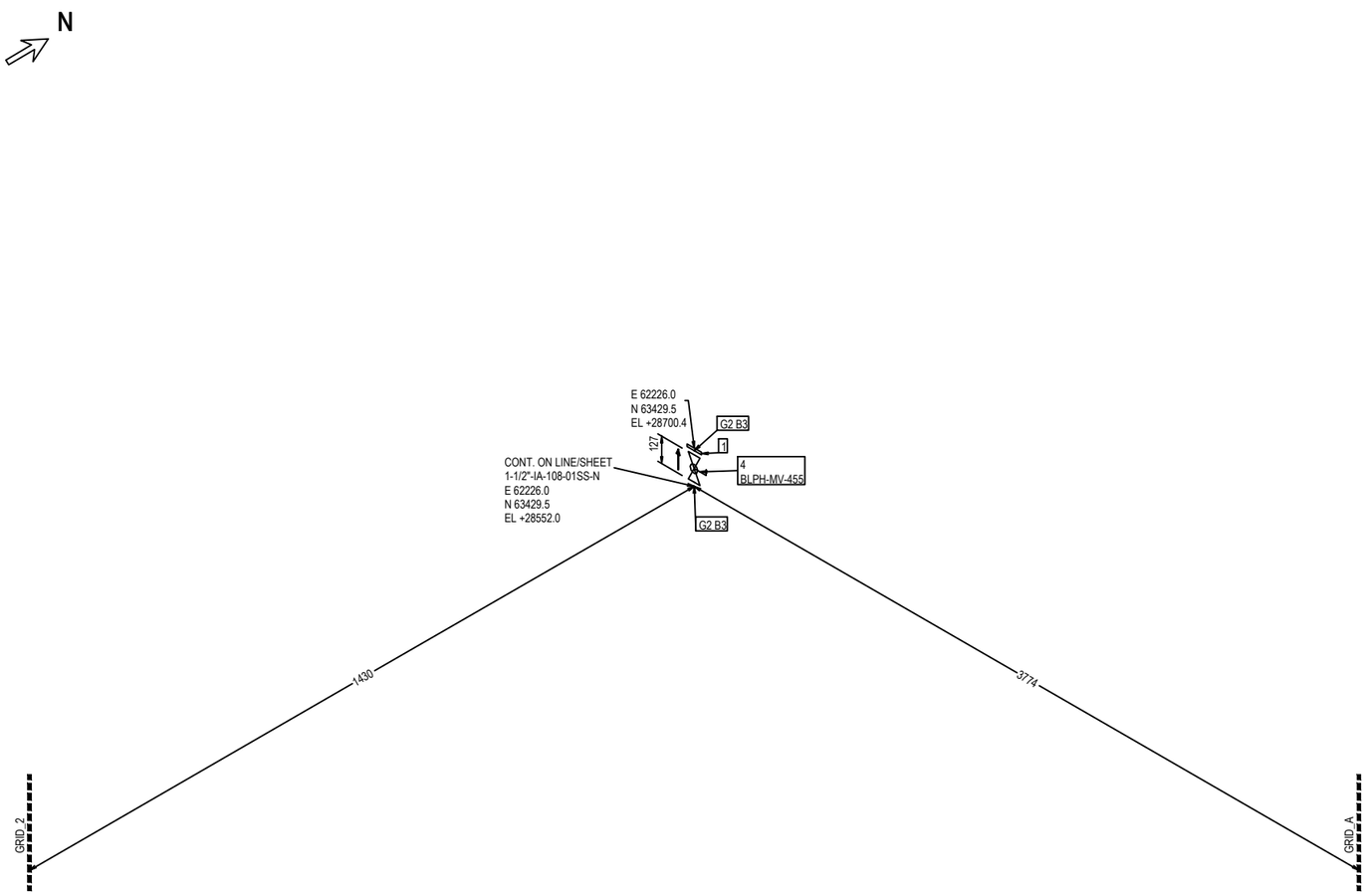
SIZE: A3

DRAWING NO. 123A90-DDL-PP-DI-71000_104

SHEET 1/1

REV. 02

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ERECTION MATERIALS

| PT NO | COMPONENT DESCRIPTION | N.S. | ITEM CODE | Q.TY | WEIGHT |
|---|---|---|---|---|---|
| 1 | Flange Blind ASME B16.5 150LB RF FRG ASTM A182 Gr.F316/316L | 1 | FLB0SS00490100 | 1 | 1.42 |
| 2 | Gasket Spiral Wound Thk. 3.2 mm ASME B16.20 150LB RF GSK AISI 316 + GRAPHITE c/w INNER RING | 1 | GSW0GK11100100 | 2 | 0.12 |
| 3 | 65 Stud Bolt + 2 Heavy Nuts ASME B1.1 ASTM A193 Gr.B7 - A194 Gr.2H Hot dip galvanized | 1/2 | SB20BO01080200 | 8 | 0.96 |
| 4 | Ball Valve Split Body FB API 6D FLG 150LB RF BS01C01RF | 1 | VBC0NN06950100 | 1 | 6.00 |
| | | | TOTAL ERECTION WEIGHT | | 8.50 |
| | | | TOTAL WEIGHT | | 8.50 |

| REFERENCE DOCUMENTS | |
|---|---|
| 123A90-DDL-PP-RE-70001 | STRESS ANALYSIS REPORT |
| 123A90-DDL-PR-PID-80041 | P&ID |
| 123A90-DDL-MAT-SP-60003 | INSULATION SPECIFICATION |
| 123A90-DDL-MAT-SP-60006 | COATING & PAINTING SPEC. |
| 123A90-DDL-PP-00-72000 | PIPING SUPPORT BOOK |
| 123A90-DDL-PP-SP-70029 | PIPING MATERIAL CLASS |

SYMBOLS LEGEND:
BUTT WELD · THREADED · HEAT TRACING
SOCKET · PIPE SUPPORT · INSULATED

| NDT EXAMINATION | | | |
|---|---|---|---|
| NDT TYPE | % | NDT TYPE | % |
| RT | 10 | VT | 100 |
| INSPECTION CATEGORY | 2 | MT/PT | 10 |
| TESTING | | | |
| TEST FLUID | | TEST PRESS.(barg) | |
| Water | | 18 | |
| PROCESS LINE DATA | | | |
| DESIGN TEMP. (°C) | | DESIGN PRESS.(barg) | |
| -29 | 100 | | 12 |

| INSULATION & PAINTING | | |
|---|---|---|
| INS. TYPE | INS. THK. | INS. SURF. (m²) |
| N | | |
| PAINT SYS. | BASE RAL | PAINT. SURF. (m²) |
| 6A | RAL 9002 | 0.02 |
| HEAT TRACING | | |
| - | | |
| LINE DATA | | |
| STRESS SYS. | PED CAT. | PWHT |
| - | Art. 4, par. 3 | No |

| Revision Number | Date | Description | Prepared by | Checked by | Approved by |
|---|---|---|---|---|---|
| 02 | 29/09/25 | AS-BUILT (ASB) | SPS | CBO | CGI |
| 01 | 26/07/24 | ACCEPTED FOR CONSTRUCTION | MMA | CBO | DLO |
| 00 | 07/06/24 | ISSUE FOR REVIEW | MMA | CBO | DLO |

ROSETTI MARINO

# CROSSWIND

DWG TYTLE:

## 1"-IA-207-01SS-N

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK

SCALE N.A.

DRAWN SPS | CHECKED CBO | APPROVED CGI | DATE 29/09/25

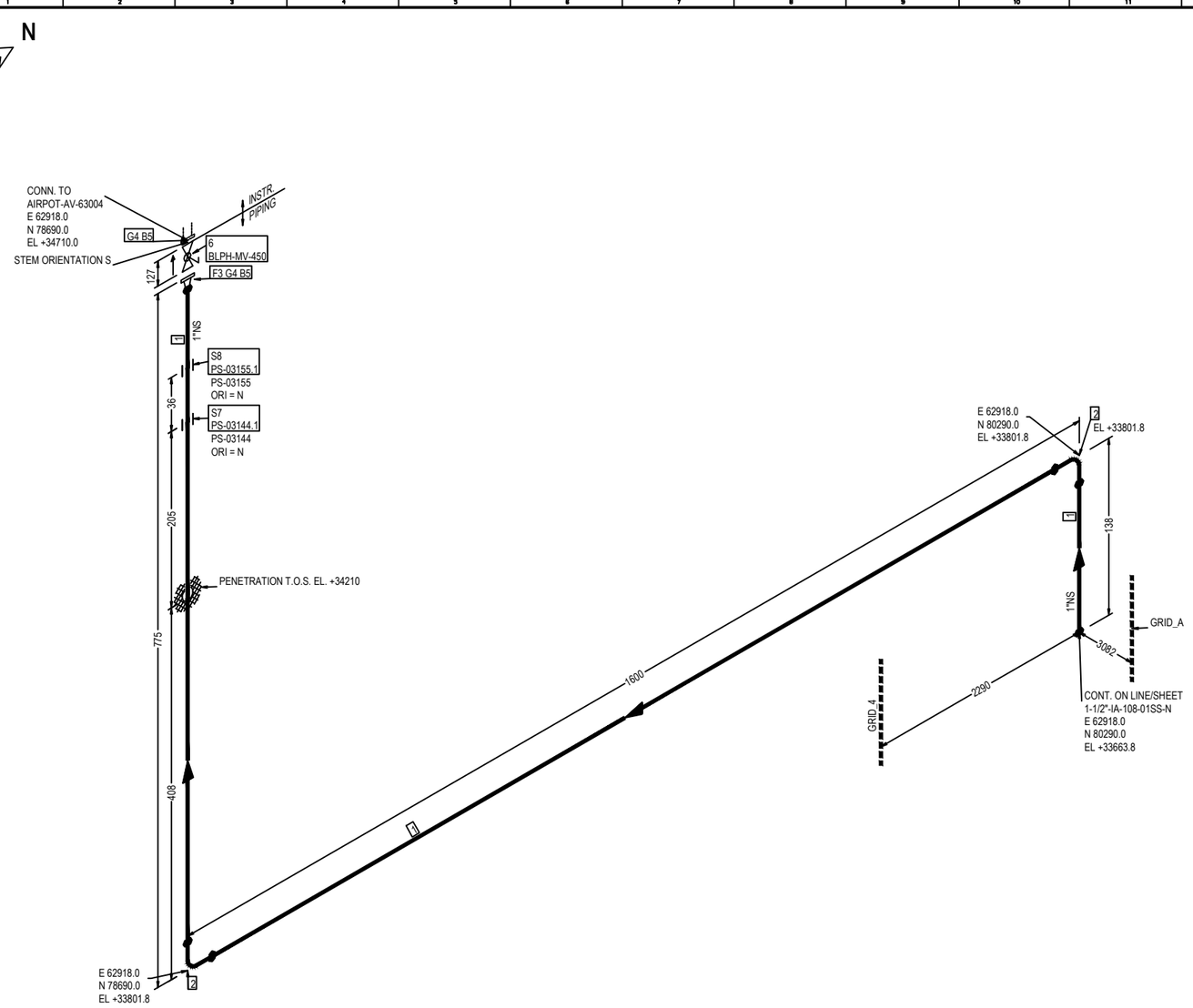
SIZE: A3

DRAWING NO. 123A90-DDL-PP-DI-71000_105

SHEET 1/1

REV. 02

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FABRICATION MATERIALS

| PT NO | COMPONENT DESCRIPTION | N.S. | ITEM CODE | Q.TY | WEIGHT |
|---|---|---|---|---|---|
| 1 | Pipe ASME B36.19M PE 3,38 SML ASTM A312 Gr.TP316/316L | 1 | PIPESS00480100 | 2305MM | 5.76 |
| 2 | 90 Deg Elbow Long Radius ASME B16.9 BW 3,38 WRS ASTM A403 Gr.WP316/316L | 1 | E90RSS00670100 | 2 | 0.28 |
| 3 | Flange WN ASME B16.5 150LB RF 3,38 FRG ASTM A182 Gr.F316/316L | 1 | FLW0SS00930100 | 1 | 1.42 |
| | | | TOTAL FABRICATION WEIGHT | | 7.46 |

ERECTION MATERIALS

| PT NO | COMPONENT DESCRIPTION | N.S. | ITEM CODE | Q.TY | WEIGHT |
|---|---|---|---|---|---|
| 4 | Gasket Spiral Wound Thk. 3.2 mm ASME B16.20 150LB RF GSK AISI 316 + GRAPHITE c/w INNER RING | 1 | GSW0GK11100100 | 2 | 0.12 |
| 5 | 65 Stud Bolt + 2 Heavy Nuts ASME B1.1 ASTM A193 Gr.B7 - A194 Gr.2H Hot dip galvanized | 1/2 | SB20BO01080200 | 8 | 0.96 |
| 6 | Ball Valve Split Body FB API 6D FLG 150LB RF BS01C01RF | 1 | VBC0NN06950100 | 1 | 6.00 |
| | SUPPORTS | | | | |
| 7 | /PS-03144.1 | 1 | | 1 | 0.19 |
| 8 | /PS-03155.1 | 1 | | 1 | 0.19 |
| | | | TOTAL ERECTION WEIGHT | | 7.46 |
| | | | TOTAL WEIGHT | | 14.92 |

| REFERENCE DOCUMENTS | |
|---|---|
| 123A90-DDL-PP-RE-70001 | STRESS ANALYSIS REPORT |
| 123A90-DDL-PR-PID-80041 | P&ID |
| 123A90-DDL-MAT-SP-60003 | INSULATION SPECIFICATION |
| 123A90-DDL-MAT-SP-60006 | COATING & PAINTING SPEC. |
| 123A90-DDL-PP-00-72000 | PIPING SUPPORT BOOK |
| 123A90-DDL-PP-SP-70029 | PIPING MATERIAL CLASS |

SYMBOLS LEGEND:
BUTT WELD — THREADED — HEAT TRACING
SOCKET — PIPE SUPPORT — INSULATED

| NDT EXAMINATION | | | | INSULATION & PAINTING | | |
|---|---|---|---|---|---|---|
| NDT TYPE | % | NDT TYPE | % | INS. TYPE | INS. THK. | INS. SURF. (m²) |
| RT | 10 | VT | 100 | N | | |
| INSPECTION CATEGORY | 2 | MT/PT | 10 | PAINT SYS. | BASE RAL | PAINT. SURF. (m²) |
| TESTING | | | | 6A | RAL 9002 | 0.27 |
| TEST FLUID | | TEST PRESS. (barg) | | HEAT TRACING | | |
| Water | | 18 | | - | | |
| PROCESS LINE DATA | | | | LINE DATA | | |
| DESIGN TEMP. (°C) | | DESIGN PRESS. (barg) | | STRESS SYS. | PED CAT. | PWHT |
| -29 | 100 | | 12 | - | Art. 4, par. 3 | No |

| Revision Number | Date | Description | Prepared by | Checked by | Approved by |
|---|---|---|---|---|---|
| 02 | 29/09/25 | AS-BUILT (ASB) | SPS | CBO | CGI |
| 01 | 26/07/24 | ACCEPTED FOR CONSTRUCTION | MMA | CBO | DLO |
| 00 | 07/06/24 | ISSUE FOR REVIEW | MMA | CBO | DLO |

ROSETTI MARINO

# CROSSWIND

DWG TYTLE:

## 1"-IA-208-01SS-N

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK

SCALE N.A.

DRAWN SPS | CHECKED CBO | APPROVED CGI | DATE 29/09/25

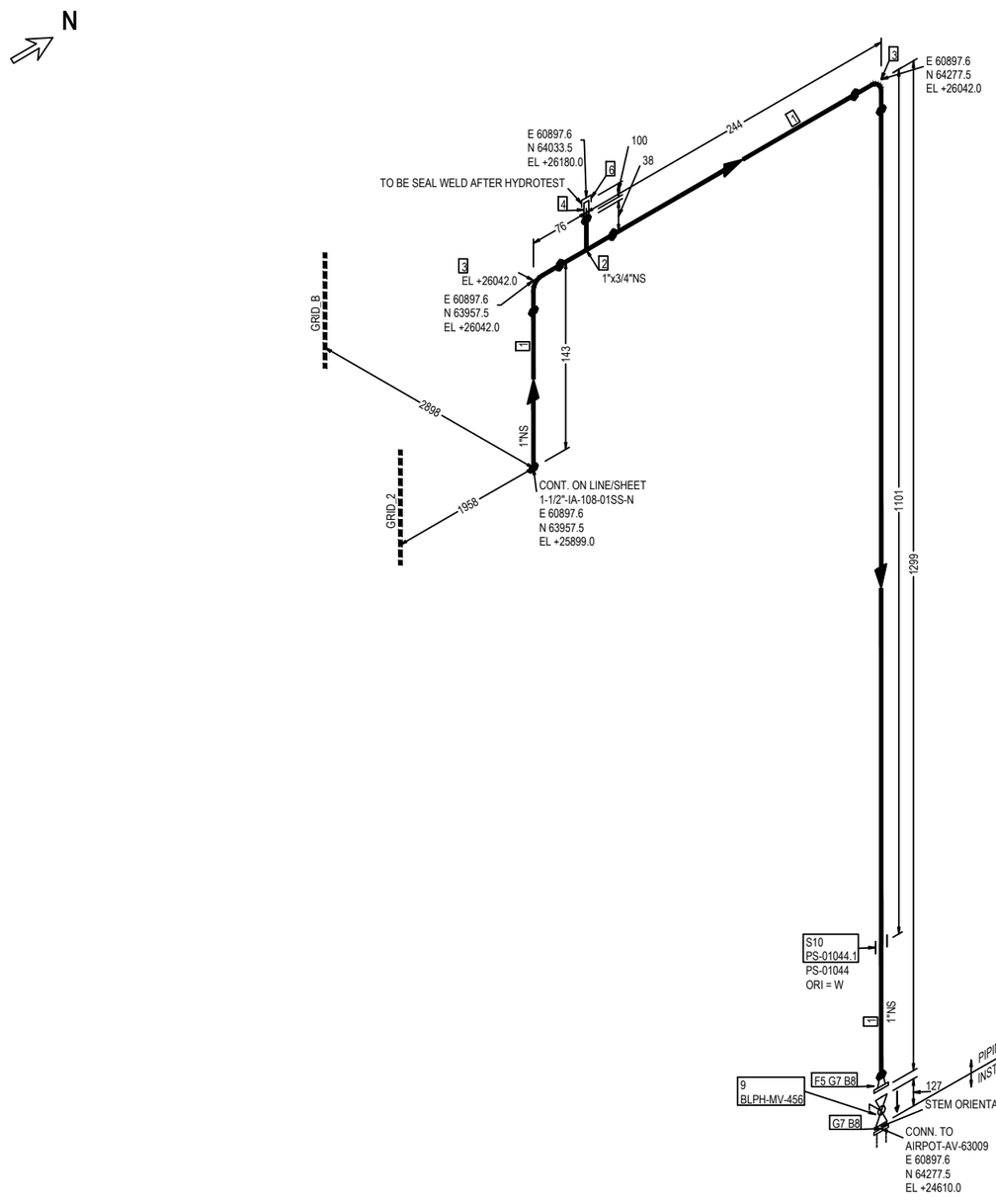
SIZE: A3

DRAWING NO. 123A90-DDL-PP-DI-71000_106

SHEET 1/1

REV. 02

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FABRICATION MATERIALS

| PT NO | COMPONENT DESCRIPTION | N.S. | ITEM CODE | Q.TY | WEIGHT |
|---|---|---|---|---|---|
| 1 | Pipe ASME B36.19M PE 3,38 SML ASTM A312 Gr.TP316/316L | 1 | PIPESS00480100 | 1478MM | 3.69 |
| 2 | Tee Reducing ASME B16.9 BW 3,38x2,87 WRS ASTM A403 Gr.WP316/316L | 1 x 3/4 | TER0SS0171013Q | 1 | 0.34 |
| 3 | 90 Deg Elbow Long Radius ASME B16.9 BW 3,38 WRS ASTM A403 Gr.WP316/316L | 1 | E90RSS00670100 | 2 | 0.28 |
| 4 | Nipple L=100mm ASME B36.19M THRD-M NPT x PE 2,87 SML ASTM A312 Gr.TP316/316L | 3/4 | N100SS02653Q00 | 1 | 0.15 |
| 5 | Flange WN ASME B16.5 150LB RF 3,38 FRG ASTM A182 Gr.F316/316L | 1 | FLW0SS00930100 | 1 | 1.42 |
| | | | TOTAL FABRICATION WEIGHT | | 5.88 |

ERECTION MATERIALS

| PT NO | COMPONENT DESCRIPTION | N.S. | ITEM CODE | Q.TY | WEIGHT |
|---|---|---|---|---|---|
| 6 | Cap Forged ASME B16.11 THRD-F NPT 3000# FRG ASTM A182 Gr.F316/316L | 3/4 | CAPFSS00023Q00 | 1 | 0.19 |
| 7 | Gasket Spiral Wound Thk. 3.2 mm ASME B16.20 150LB RF GSK AISI 316 + GRAPHITE c/w INNER RING | 1 | GSW0GK11100100 | 2 | 0.12 |
| 8 | 65 Stud Bolt + 2 Heavy Nuts ASME B1.1 ASTM A193 Gr.B7 - A194 Gr.2H Hot dip galvanized | 1/2 | SB20BO01080200 | 8 | 0.96 |
| 9 | Ball Valve Split Body FB API 6D FLG 150LB RF BS01C01RF | 1 | VBC0NN06950100 | 1 | 6.00 |
| | SUPPORTS | | | | |
| 10 | /PS-01044.1 | 1 | | 1 | 0.19 |
| | | | TOTAL ERECTION WEIGHT | | 7.46 |
| | | | TOTAL WEIGHT | | 13.34 |

| REFERENCE DOCUMENTS | |
|---|---|
| 123A90-DDL-PP-RE-70001 | STRESS ANALYSIS REPORT |
| 123A90-DDL-PR-PID-80041 | P&ID |
| 123A90-DDL-MAT-SP-60003 | INSULATION SPECIFICATION |
| 123A90-DDL-MAT-SP-60006 | COATING & PAINTING SPEC. |
| 123A90-DDL-PP-00-72000 | PIPING SUPPORT BOOK |
| 123A90-DDL-PP-SP-70029 | PIPING MATERIAL CLASS |

SYMBOLS LEGEND:
BUTT WELD · THREADED · HEAT TRACING · SOCKET · PIPE SUPPORT · INSULATED

| NDT EXAMINATION | | | |
|---|---|---|---|
| NDT TYPE | % | NDT TYPE | % |
| RT | 10 | VT | 100 |
| INSPECTION CATEGORY | 2 | MT/PT | 10 |
| TESTING | | | |
| TEST FLUID | | TEST PRESS. (barg) | |
| Water | | 18 | |
| PROCESS LINE DATA | | | |
| DESIGN TEMP. (°C) | | DESIGN PRESS. (barg) | |
| -29 | 100 | | 12 |

| INSULATION & PAINTING | | |
|---|---|---|
| INS. TYPE | INS. THK. | INS. SURF. (m²) |
| N | | |
| PAINT SYS. | BASE RAL | PAINT. SURF. (m²) |
| 6A | RAL 9002 | 0.20 |
| HEAT TRACING | | |
| - | | |
| LINE DATA | | |
| STRESS SYS. | PED CAT. | PWHT |
| - | Art. 4, par. 3 | No |

| Revision Number | Date | Description | Prepared by | Checked by | Approved by |
|---|---|---|---|---|---|
| 02 | 29/09/25 | AS-BUILT (ASB) | SPS | CBO | CGI |
| 01 | 26/07/24 | ACCEPTED FOR CONSTRUCTION | MMA | CBO | DLO |
| 00 | 07/06/24 | ISSUE FOR REVIEW | MMA | CBO | DLO |

ROSETTI MARINO

CROSSWIND

DWG TYTLE:

# 1"-IA-209-01SS-N

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK

SCALE N.A.

DRAWN SPS | CHECKED CBO | APPROVED CGI | DATE 29/09/25

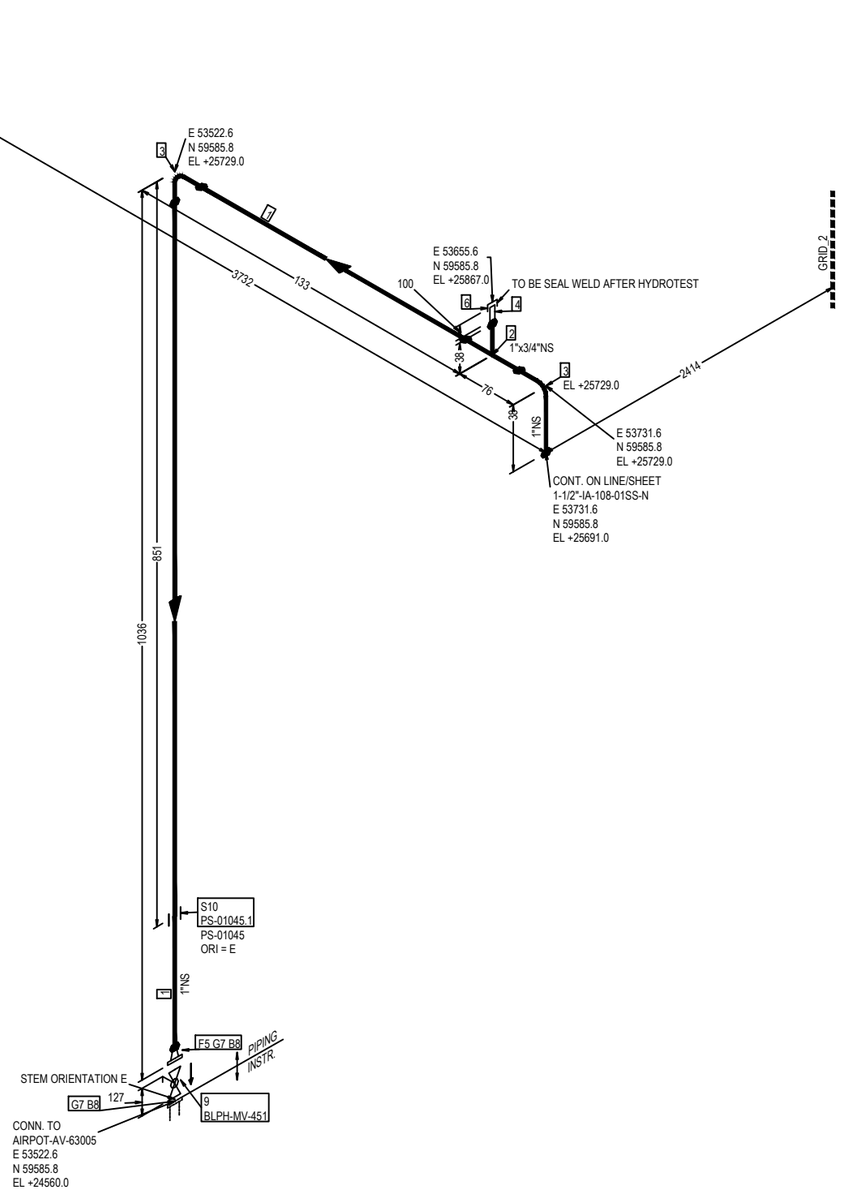
SIZE: A3

DRAWING NO. 123A90-DDL-PP-DI-71000_107

SHEET 1/1

REV. 02

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FABRICATION MATERIALS

| PT NO | COMPONENT DESCRIPTION | N.S. | ITEM CODE | Q.TY | WEIGHT |
|---|---|---|---|---|---|
| 1 | Pipe ASME B36.19M PE 3,38 SML ASTM A312 Gr.TP316/316L | 1 | PIPESS00480100 | 999MM | 2.50 |
| 2 | Tee Reducing ASME B16.9 BW 3,38x2,87 WRS ASTM A403 Gr.WP316/316L | 1 x 3/4 | TER0SS0171013Q | 1 | 0.34 |
| 3 | 90 Deg Elbow Long Radius ASME B16.9 BW 3,38 WRS ASTM A403 Gr.WP316/316L | 1 | E90RSS00670100 | 2 | 0.28 |
| 4 | Nipple L=100mm ASME B36.19M THRD-M NPT x PE 2,87 SML ASTM A312 Gr.TP316/316L | 3/4 | N100SS02653Q00 | 1 | 0.15 |
| 5 | Flange WN ASME B16.5 150LB RF 3,38 FRG ASTM A182 Gr.F316/316L | 1 | FLW0SS00930100 | 1 | 1.42 |
| | | | TOTAL FABRICATION WEIGHT | | 4.69 |

ERECTION MATERIALS

| PT NO | COMPONENT DESCRIPTION | N.S. | ITEM CODE | Q.TY | WEIGHT |
|---|---|---|---|---|---|
| 6 | Cap Forged ASME B16.11 THRD-F NPT 3000# FRG ASTM A182 Gr.F316/316L | 3/4 | CAPFSS00023Q00 | 1 | 0.19 |
| 7 | Gasket Spiral Wound Thk. 3.2 mm ASME B16.20 150LB RF GSK AISI 316 + GRAPHITE c/w INNER RING | 1 | GSW0GK11100100 | 2 | 0.12 |
| 8 | 65 Stud Bolt + 2 Heavy Nuts ASME B1.1 ASTM A193 Gr.B7 - A194 Gr.2H Hot dip galvanized | 1/2 | SB20BO01080200 | 8 | 0.96 |
| 9 | Ball Valve Split Body FB API 6D FLG 150LB RF BS01C01RF | 1 | VBC0NN06950100 | 1 | 6.00 |
| | SUPPORTS | | | | |
| 10 | /PS-01045.1 | 1 | | 1 | 0.19 |
| | | | TOTAL ERECTION WEIGHT | | 7.46 |
| | | | TOTAL WEIGHT | | 12.15 |

| REFERENCE DOCUMENTS | |
|---|---|
| 123A90-DDL-PP-RE-70001 | STRESS ANALYSIS REPORT |
| 123A90-DDL-PR-PID-80041 | P&ID |
| 123A90-DDL-MAT-SP-60003 | INSULATION SPECIFICATION |
| 123A90-DDL-MAT-SP-60006 | COATING & PAINTING SPEC. |
| 123A90-DDL-PP-00-72000 | PIPING SUPPORT BOOK |
| 123A90-DDL-PP-SP-70029 | PIPING MATERIAL CLASS |

SYMBOLS LEGEND:
BUTT WELD · THREADED · HEAT TRACING · SOCKET · PIPE SUPPORT · INSULATED

| NDT EXAMINATION | | | |
|---|---|---|---|
| NDT TYPE | % | NDT TYPE | % |
| RT | 10 | VT | 100 |
| INSPECTION CATEGORY | 2 | MT/PT | 10 |
| TESTING | | | |
| TEST FLUID | | TEST PRESS. (barg) | |
| Water | | 18 | |
| PROCESS LINE DATA | | | |
| DESIGN TEMP. (°C) | | DESIGN PRESS. (barg) | |
| -29 | 100 | | 12 |

| INSULATION & PAINTING | | |
|---|---|---|
| INS. TYPE | INS. THK. | INS. SURF. (m²) |
| N | | |
| PAINT SYS. | BASE RAL | PAINT. SURF. (m²) |
| 6A | RAL 9002 | 0.16 |
| HEAT TRACING | | |
| - | | |
| LINE DATA | | |
| STRESS SYS. | PED CAT. | PWHT |
| - | Art. 4, par. 3 | No |

| Revision Number | Date | Description | Prepared by | Checked by | Approved by |
|---|---|---|---|---|---|
| 02 | 29/09/25 | AS-BUILT (ASB) | SPS | CBO | CGI |
| 01 | 26/07/24 | ACCEPTED FOR CONSTRUCTION | MMA | CBO | DLO |
| 00 | 07/06/24 | ISSUE FOR REVIEW | MMA | CBO | DLO |

ROSETTI MARINO

# CROSSWIND

DWG TYTLE:

# 1"-IA-210-01SS-N

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK

SCALE N.A.

DRAWN SPS | CHECKED CBO | APPROVED CGI | DATE 29/09/25

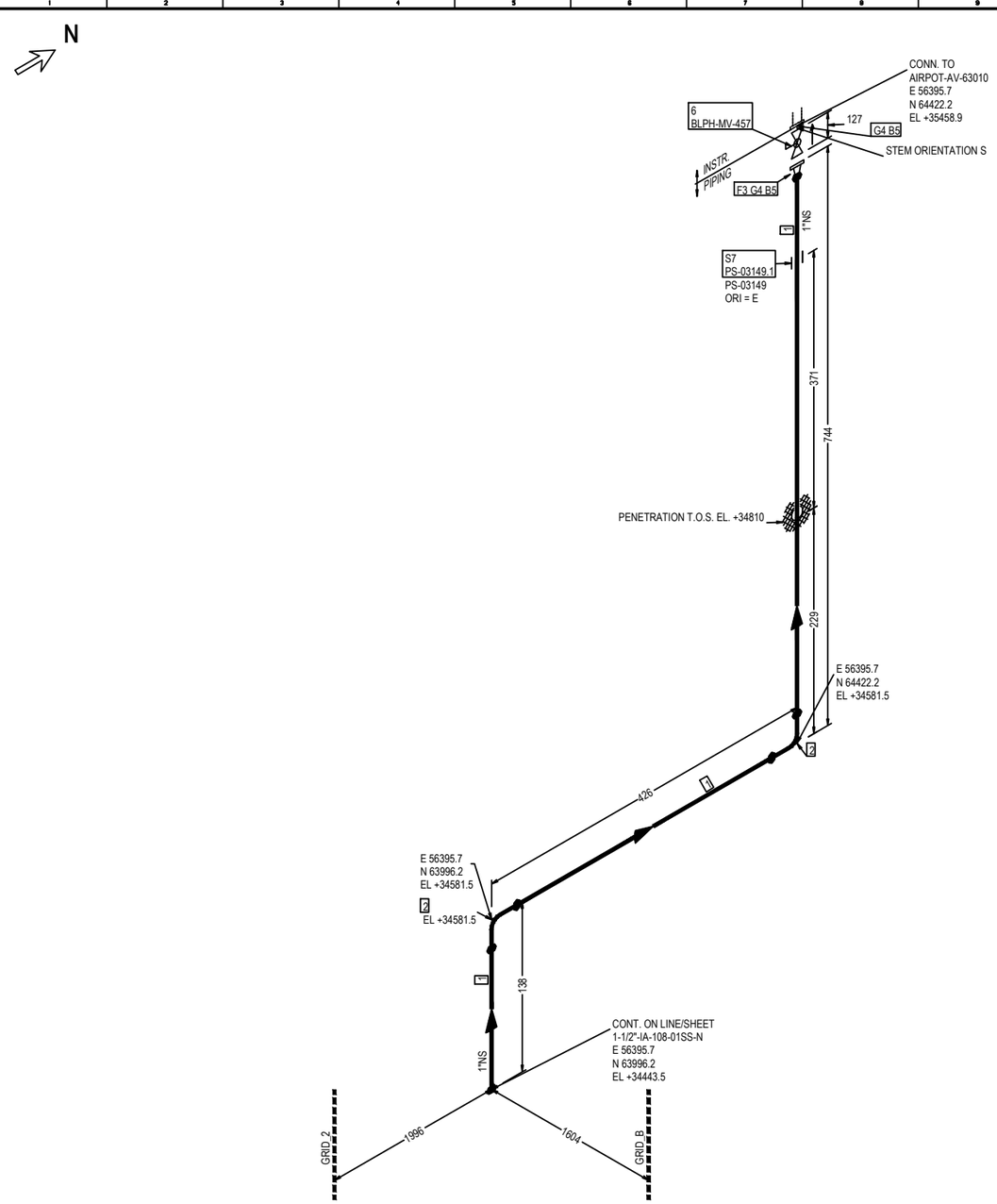
SIZE: A3

DRAWING NO. 123A90-DDL-PP-DI-71000_108

SHEET 1/1

REV. 02

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FABRICATION MATERIALS

| PT NO | COMPONENT DESCRIPTION | N.S. | ITEM CODE | Q.TY | WEIGHT |
|---|---|---|---|---|---|
| 1 | Pipe ASME B36.19M PE 3,38 SML ASTM A312 Gr.TP316/316L | 1 | PIPESS00480100 | 1100MM | 2.75 |
| 2 | 90 Deg Elbow Long Radius ASME B16.9 BW 3,38 WRS ASTM A403 Gr.WP316/316L | 1 | E90RSS00670100 | 2 | 0.28 |
| 3 | Flange WN ASME B16.5 150LB RF 3,38 FRG ASTM A182 Gr.F316/316L | 1 | FLW0SS00930100 | 1 | 1.42 |
| | | | TOTAL FABRICATION WEIGHT | | 4.45 |

ERECTION MATERIALS

| PT NO | COMPONENT DESCRIPTION | N.S. | ITEM CODE | Q.TY | WEIGHT |
|---|---|---|---|---|---|
| 4 | Gasket Spiral Wound Thk. 3.2 mm ASME B16.20 150LB RF GSK AISI 316 + GRAPHITE c/w INNER RING | 1 | GSW0GK11100100 | 2 | 0.12 |
| 5 | 65 Stud Bolt + 2 Heavy Nuts ASME B1.1 ASTM A193 Gr.B7 - A194 Gr.2H Hot dip galvanized | 1/2 | SB20BO01080200 | 8 | 0.96 |
| 6 | Ball Valve Split Body FB API 6D FLG 150LB RF BS01C01RF | 1 | VBC0NN06950100 | 1 | 6.00 |
| | SUPPORTS | | | | |
| 7 | /PS-03149.1 | 1 | | 1 | 0.19 |
| | | | TOTAL ERECTION WEIGHT | | 7.27 |
| | | | TOTAL WEIGHT | | 11.72 |

| REFERENCE DOCUMENTS | |
|---|---|
| 123A90-DDL-PP-RE-70001 | STRESS ANALYSIS REPORT |
| 123A90-DDL-PR-PID-80041 | P&ID |
| 123A90-DDL-MAT-SP-60003 | INSULATION SPECIFICATION |
| 123A90-DDL-MAT-SP-60006 | COATING & PAINTING SPEC. |
| 123A90-DDL-PP-00-72000 | PIPING SUPPORT BOOK |
| 123A90-DDL-PP-SP-70029 | PIPING MATERIAL CLASS |

SYMBOLS LEGEND:
BUTT WELD · THREADED · HEAT TRACING · SOCKET · PIPE SUPPORT · INSULATED

| NDT EXAMINATION | | | |
|---|---|---|---|
| NDT TYPE | % | NDT TYPE | % |
| RT | 10 | VT | 100 |
| INSPECTION CATEGORY | 2 | MT/PT | 10 |
| TESTING | | | |
| TEST FLUID | | TEST PRESS. (barg) | |
| Water | | 18 | |
| PROCESS LINE DATA | | | |
| DESIGN TEMP. (°C) | | DESIGN PRESS. (barg) | |
| -29 | 100 | | 12 |

| INSULATION & PAINTING | | |
|---|---|---|
| INS. TYPE | INS. THK. | INS. SURF. (m²) |
| N | | |
| PAINT SYS. | BASE RAL | PAINT. SURF. (m²) |
| 6A | RAL 9002 | 0.15 |
| HEAT TRACING | | |
| - | | |
| LINE DATA | | |
| STRESS SYS. | PED CAT. | PWHT |
| - | Art. 4, par. 3 | No |

| Revision Number | Date | Description | Prepared by | Checked by | Approved by |
|---|---|---|---|---|---|
| 02 | 29/09/25 | AS-BUILT (ASB) | SPS | CBO | CGI |
| 01 | 26/07/24 | ACCEPTED FOR CONSTRUCTION | MMA | CBO | DLO |
| 00 | 07/06/24 | ISSUE FOR REVIEW | MMA | CBO | DLO |

ROSETTI MARINO

# CROSSWIND

DWG TYTLE:

## 1"-IA-211-01SS-N

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK

SCALE N.A.

DRAWN SPS | CHECKED CBO | APPROVED CGI | DATE 29/09/25

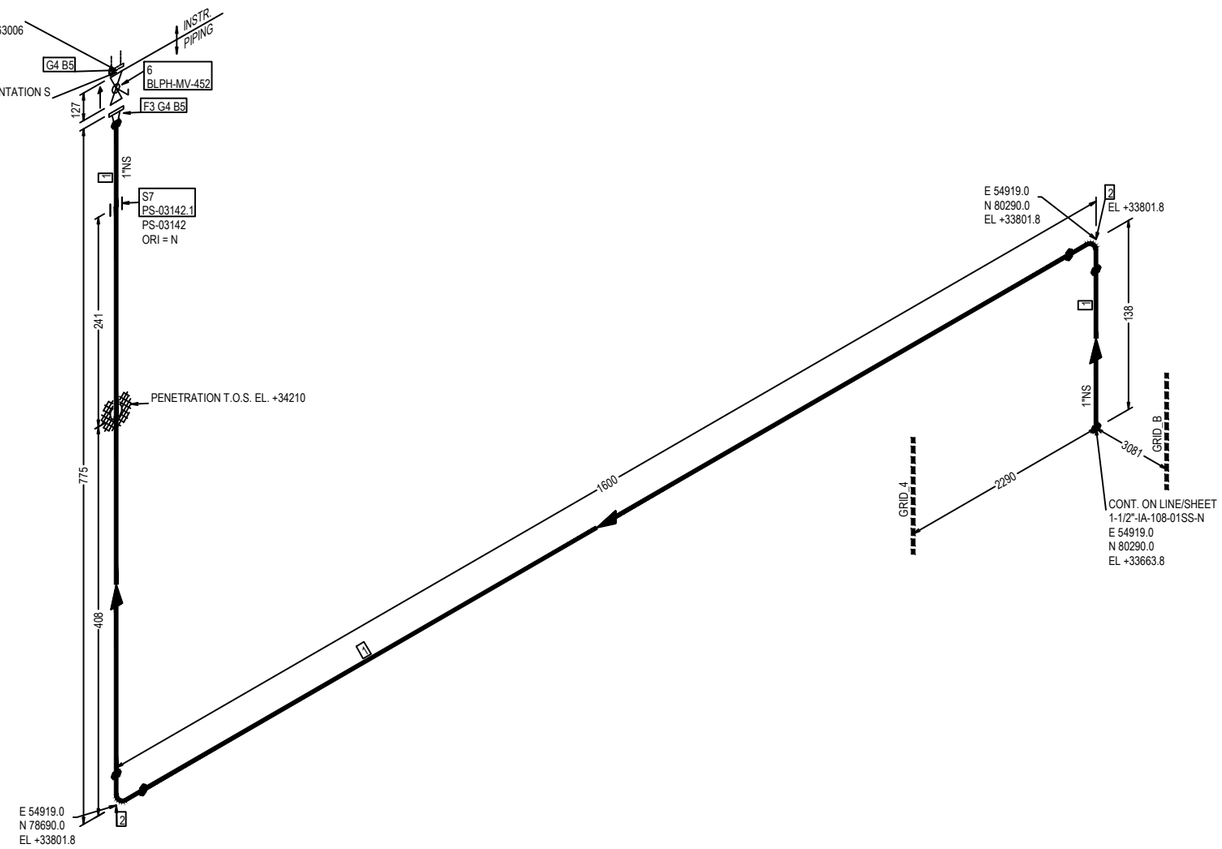
SIZE: A3

DRAWING NO. 123A90-DDL-PP-DI-71000_109

SHEET 1/1

REV. 02

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FABRICATION MATERIALS

| PT NO | COMPONENT DESCRIPTION | N.S. | ITEM CODE | Q.TY | WEIGHT |
|---|---|---|---|---|---|
| 1 | Pipe ASME B36.19M PE 3,38 SML ASTM A312 Gr.TP316/316L | 1 | PIPESS00480100 | 2305MM | 5.76 |
| 2 | 90 Deg Elbow Long Radius ASME B16.9 BW 3,38 WRS ASTM A403 Gr.WP316/316L | 1 | E90RSS00670100 | 2 | 0.28 |
| 3 | Flange WN ASME B16.5 150LB RF 3,38 FRG ASTM A182 Gr.F316/316L | 1 | FLW0SS00930100 | 1 | 1.42 |
| | | | TOTAL FABRICATION WEIGHT | | 7.46 |

ERECTION MATERIALS

| PT NO | COMPONENT DESCRIPTION | N.S. | ITEM CODE | Q.TY | WEIGHT |
|---|---|---|---|---|---|
| 4 | Gasket Spiral Wound Thk. 3.2 mm ASME B16.20 150LB RF GSK AISI 316 + GRAPHITE c/w INNER RING | 1 | GSW0GK11100100 | 2 | 0.12 |
| 5 | 65 Stud Bolt + 2 Heavy Nuts ASME B1.1 ASTM A193 Gr.B7 - A194 Gr.2H Hot dip galvanized | 1/2 | SB20BO01080200 | 8 | 0.96 |
| 6 | Ball Valve Split Body FB API 6D FLG 150LB RF BS01C01RF | 1 | VBC0NN06950100 | 1 | 6.00 |
| | SUPPORTS | | | | |
| 7 | /PS-03142.1 | 1 | | 1 | 0.19 |
| | | | TOTAL ERECTION WEIGHT | | 7.27 |
| | | | TOTAL WEIGHT | | 14.73 |

| REFERENCE DOCUMENTS | |
|---|---|
| 123A90-DDL-PP-RE-70001 | STRESS ANALYSIS REPORT |
| 123A90-DDL-PR-PID-80041 | P&ID |
| 123A90-DDL-MAT-SP-60003 | INSULATION SPECIFICATION |
| 123A90-DDL-MAT-SP-60006 | COATING & PAINTING SPEC. |
| 123A90-DDL-PP-00-72000 | PIPING SUPPORT BOOK |
| 123A90-DDL-PP-SP-70029 | PIPING MATERIAL CLASS |

SYMBOLS LEGEND:
BUTT WELD · THREADED · HEAT TRACING
SOCKET · PIPE SUPPORT · INSULATED

| NDT EXAMINATION | | | | INSULATION & PAINTING | | |
|---|---|---|---|---|---|---|
| NDT TYPE | % | NDT TYPE | % | INS. TYPE | INS. THK. | INS. SURF. (m²) |
| RT | 10 | VT | 100 | N | | |
| INSPECTION CATEGORY | 2 | MT/PT | 10 | PAINT SYS. | BASE RAL | PAINT. SURF. (m²) |
| TESTING | | | | 6A | RAL 9002 | 0.27 |
| TEST FLUID | | TEST PRESS. (barg) | | HEAT TRACING | | |
| Water | | 18 | | - | | |
| PROCESS LINE DATA | | | | LINE DATA | | |
| DESIGN TEMP. (°C) | | DESIGN PRESS. (barg) | | STRESS SYS. | PED CAT. | PWHT |
| -29 | 100 | | 12 | - | Art. 4, par. 3 | No |

| Revision Number | Date | Description | Prepared by | Checked by | Approved by |
|---|---|---|---|---|---|
| 02 | 29/09/25 | AS-BUILT (ASB) | SPS | CBO | CGI |
| 01 | 26/07/24 | ACCEPTED FOR CONSTRUCTION | MMA | CBO | DLO |
| 00 | 07/06/24 | ISSUE FOR REVIEW | MMA | CBO | DLO |

ROSETTI MARINO

# CROSSWIND

DWG TYTLE:

## 1"-IA-212-01SS-N

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK

SCALE N.A.

DRAWN SPS | CHECKED CBO | APPROVED CGI | DATE 29/09/25

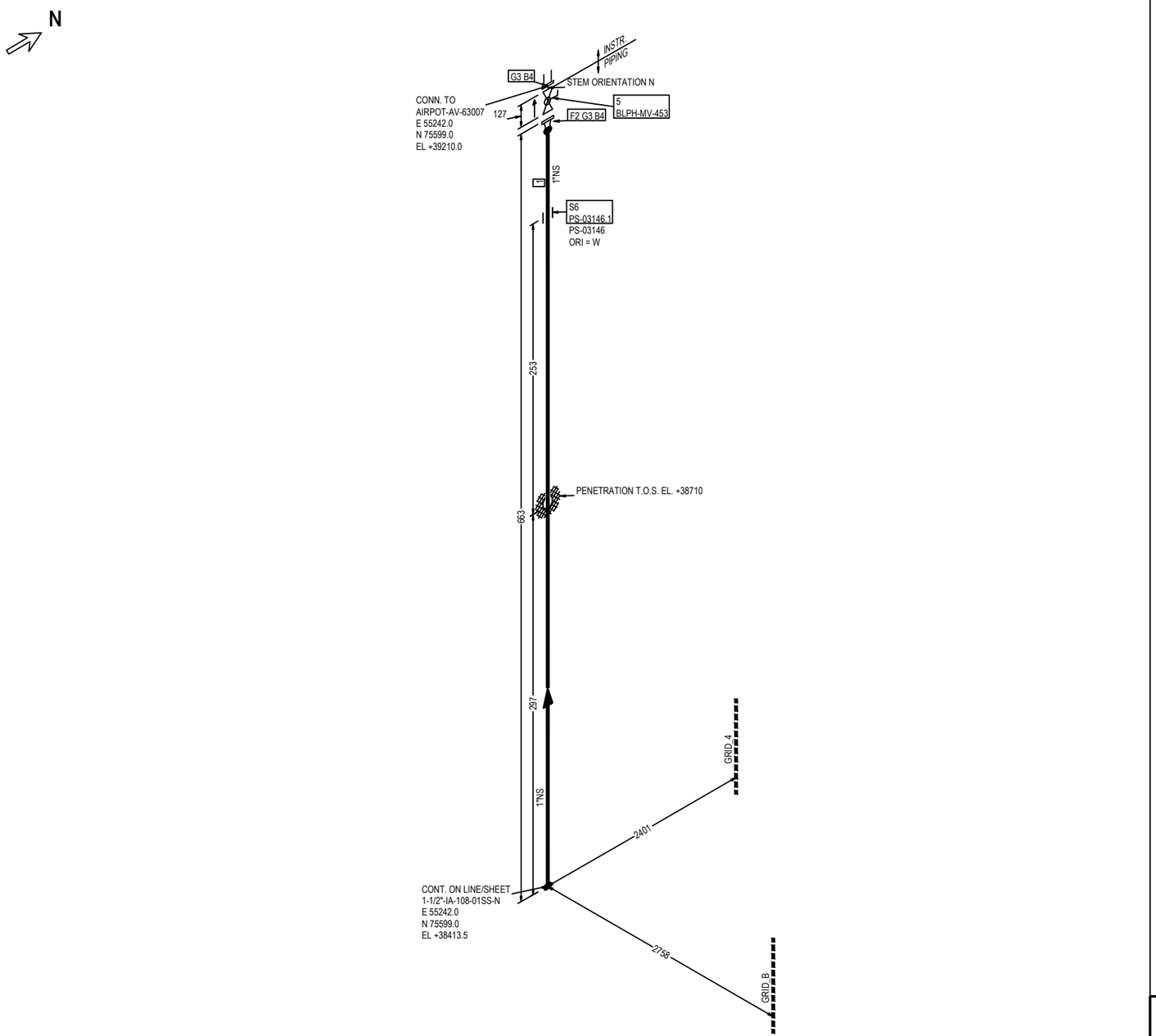
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DRAWING NO. 123A90-DDL-PP-DI-71000_110

SHEET 1/1

REV. 02

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FABRICATION MATERIALS

| PT NO | COMPONENT DESCRIPTION | N.S. | ITEM CODE | Q.TY | WEIGHT |
|---|---|---|---|---|---|
| 1 | Pipe ASME B36.19M PE 3,38 SML ASTM A312 Gr.TP316/316L | 1 | PIPESS00480100 | 607MM | 1.52 |
| 2 | Flange WN ASME B16.5 150LB RF 3,38 FRG ASTM A182 Gr.F316/316L | 1 | FLW0SS00930100 | 1 | 1.42 |
| | | | TOTAL FABRICATION WEIGHT | | 2.94 |

ERECTION MATERIALS

| PT NO | COMPONENT DESCRIPTION | N.S. | ITEM CODE | Q.TY | WEIGHT |
|---|---|---|---|---|---|
| 3 | Gasket Spiral Wound Thk. 3.2 mm ASME B16.20 150LB RF GSK AISI 316 + GRAPHITE c/w INNER RING | 1 | GSW0GK11100100 | 2 | 0.12 |
| 4 | 65 Stud Bolt + 2 Heavy Nuts ASME B1.1 ASTM A193 Gr.B7 - A194 Gr.2H Hot dip galvanized | 1/2 | SB20BO01080200 | 8 | 0.96 |
| 5 | Ball Valve Split Body FB API 6D FLG 150LB RF BS01C01RF | 1 | VBC0NN06950100 | 1 | 6.00 |
| | SUPPORTS | | | | |
| 6 | /PS-03146.1 | 1 | | 1 | 0.19 |
| | | | TOTAL ERECTION WEIGHT | | 7.27 |
| | | | TOTAL WEIGHT | | 10.21 |

| REFERENCE DOCUMENTS | |
|---|---|
| 123A90-DDL-PP-RE-70001 | STRESS ANALYSIS REPORT |
| 123A90-DDL-PR-PID-80041 | P&ID |
| 123A90-DDL-MAT-SP-60003 | INSULATION SPECIFICATION |
| 123A90-DDL-MAT-SP-60006 | COATING & PAINTING SPEC. |
| 123A90-DDL-PP-00-72000 | PIPING SUPPORT BOOK |
| 123A90-DDL-PP-SP-70029 | PIPING MATERIAL CLASS |

SYMBOLS LEGEND:
BUTT WELD · THREADED · HEAT TRACING · SOCKET · PIPE SUPPORT · INSULATED

| NDT EXAMINATION | | | |
|---|---|---|---|
| NDT TYPE | % | NDT TYPE | % |
| RT | 10 | VT | 100 |
| INSPECTION CATEGORY | 2 | MT/PT | 10 |

| TESTING | |
|---|---|
| TEST FLUID | TEST PRESS. (barg) |
| Water | 18 |

| PROCESS LINE DATA | | | |
|---|---|---|---|
| DESIGN TEMP. (°C) | | DESIGN PRESS. (barg) | |
| -29 | 100 | | 12 |

| INSULATION & PAINTING | | |
|---|---|---|
| INS. TYPE | INS. THK. | INS. SURF. (m²) |
| N | | |
| PAINT SYS. | BASE RAL | PAINT. SURF. (m²) |
| 6A | RAL 9002 | 0.08 |

| HEAT TRACING |
|---|
| - |

| LINE DATA | | |
|---|---|---|
| STRESS SYS. | PED CAT. | PWHT |
| - | Art. 4, par. 3 | No |

| Revision Number | Date | Description | Prepared by | Checked by | Approved by |
|---|---|---|---|---|---|
| 02 | 29/09/25 | AS-BUILT (ASB) | SPS | CBO | CGI |
| 01 | 26/07/24 | ACCEPTED FOR CONSTRUCTION | MMA | CBO | DLO |
| 00 | 07/06/24 | ISSUE FOR REVIEW | MMA | CBO | DLO |

ROSETTI MARINO

# CROSSWIND

DWG TYTLE:

## 1"-IA-213-01SS-N

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK

SCALE N.A.

DRAWN SPS | CHECKED CBO | APPROVED CGI | DATE 29/09/25

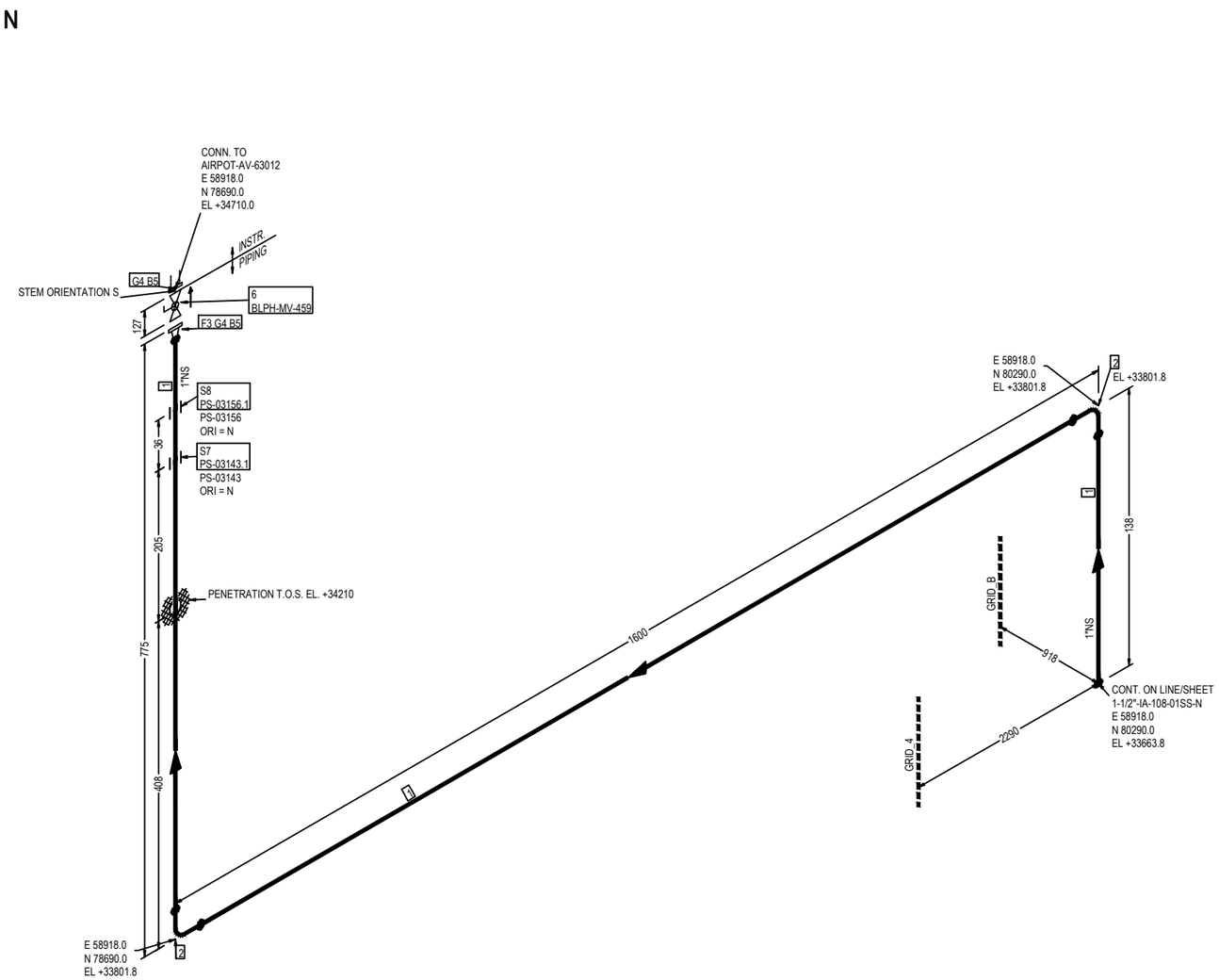
SIZE: A3

DRAWING NO. 123A90-DDL-PP-DI-71000_111

SHEET 1/1

REV. 02

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FABRICATION MATERIALS

| PT NO | COMPONENT DESCRIPTION | N.S. | ITEM CODE | Q.TY | WEIGHT |
|---|---|---|---|---|---|
| 1 | Pipe ASME B36.19M PE 3,38 SML ASTM A312 Gr.TP316/316L | 1 | PIPESS00480100 | 2305MM | 5.76 |
| 2 | 90 Deg Elbow Long Radius ASME B16.9 BW 3,38 WRS ASTM A403 Gr.WP316/316L | 1 | E90RSS00670100 | 2 | 0.28 |
| 3 | Flange WN ASME B16.5 150LB RF 3,38 FRG ASTM A182 Gr.F316/316L | 1 | FLW0SS00930100 | 1 | 1.42 |
| | | | TOTAL FABRICATION WEIGHT | | 7.46 |

ERECTION MATERIALS

| PT NO | COMPONENT DESCRIPTION | N.S. | ITEM CODE | Q.TY | WEIGHT |
|---|---|---|---|---|---|
| 4 | Gasket Spiral Wound Thk. 3.2 mm ASME B16.20 150LB RF GSK AISI 316 + GRAPHITE c/w INNER RING | 1 | GSW0GK11100100 | 2 | 0.12 |
| 5 | 65 Stud Bolt + 2 Heavy Nuts ASME B1.1 ASTM A193 Gr.B7 - A194 Gr.2H Hot dip galvanized | 1/2 | SB20BO01080200 | 8 | 0.96 |
| 6 | Ball Valve Split Body FB API 6D FLG 150LB RF BS01C01RF | 1 | VBC0NN06950100 | 1 | 6.00 |
| | SUPPORTS | | | | |
| 7 | /PS-03143.1 | 1 | | 1 | 0.19 |
| 8 | /PS-03156.1 | 1 | | 1 | 0.19 |
| | | | TOTAL ERECTION WEIGHT | | 7.46 |
| | | | TOTAL WEIGHT | | 14.92 |

| REFERENCE DOCUMENTS | |
|---|---|
| 123A90-DDL-PP-RE-70001 | STRESS ANALYSIS REPORT |
| 123A90-DDL-PR-PID-80041 | P&ID |
| 123A90-DDL-MAT-SP-60003 | INSULATION SPECIFICATION |
| 123A90-DDL-MAT-SP-60006 | COATING & PAINTING SPEC. |
| 123A90-DDL-PP-00-72000 | PIPING SUPPORT BOOK |
| 123A90-DDL-PP-SP-70029 | PIPING MATERIAL CLASS |

SYMBOLS LEGEND:
BUTT WELD — THREADED — HEAT TRACING
SOCKET — PIPE SUPPORT — INSULATED

| NDT EXAMINATION | | | |
|---|---|---|---|
| NDT TYPE | % | NDT TYPE | % |
| RT | 10 | VT | 100 |
| INSPECTION CATEGORY | 2 | MT/PT | 10 |

| TESTING | |
|---|---|
| TEST FLUID | TEST PRESS.(barg) |
| Water | 18 |

| PROCESS LINE DATA | | | |
|---|---|---|---|
| DESIGN TEMP. (°C) | | DESIGN PRESS.(barg) | |
| -29 | 100 | | 12 |

| INSULATION & PAINTING | | |
|---|---|---|
| INS. TYPE | INS. THK. | INS. SURF. (m²) |
| N | | |
| PAINT SYS. | BASE RAL | PAINT. SURF. (m²) |
| 6A | RAL 9002 | 0.27 |

| HEAT TRACING | | |
|---|---|---|
| - | | |

| LINE DATA | | |
|---|---|---|
| STRESS SYS. | PED CAT. | PWHT |
| - | Art. 4, par. 3 | No |

| Revision Number | Date | Description | Prepared by | Checked by | Approved by |
|---|---|---|---|---|---|
| 02 | 29/09/25 | AS-BUILT (ASB) | SPS | CBO | CGI |
| 01 | 26/07/24 | ACCEPTED FOR CONSTRUCTION | MMA | CBO | DLO |
| 00 | 07/06/24 | ISSUE FOR REVIEW | MMA | CBO | DLO |

ROSETTI MARINO

CROSSWIND

DWG TYTLE:

# 1"-IA-214-01SS-N

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK

SCALE N.A.

DRAWN SPS | CHECKED CBO | APPROVED CGI | DATE 29/09/25

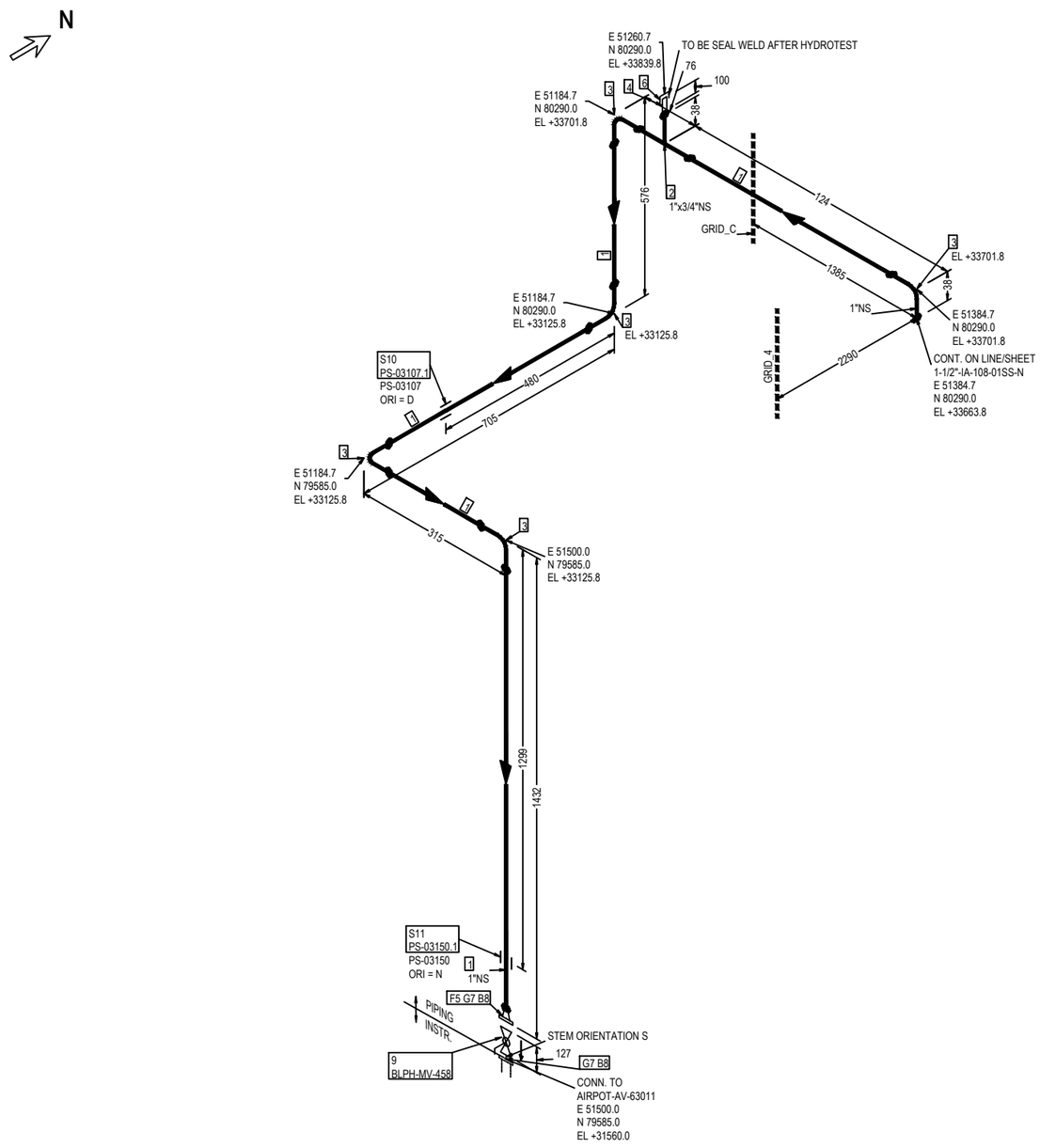
SIZE: A3

DRAWING NO. 123A90-DDL-PP-DI-71000_112

SHEET 1/1

REV. 02

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FABRICATION MATERIALS

| PT NO | COMPONENT DESCRIPTION | N.S. | ITEM CODE | Q.TY | WEIGHT |
|---|---|---|---|---|---|
| 1 | Pipe ASME B36.19M PE 3,38 SML ASTM A312 Gr.TP316/316L | 1 | PIPESS00480100 | 2754MM | 6.88 |
| 2 | Tee Reducing ASME B16.9 BW 3,38x2,87 WRS ASTM A403 Gr.WP316/316L | 1 x 3/4 | TER0SS0171013Q | 1 | 0.34 |
| 3 | 90 Deg Elbow Long Radius ASME B16.9 BW 3,38 WRS ASTM A403 Gr.WP316/316L | 1 | E90RSS00670100 | 5 | 0.70 |
| 4 | Nipple L=100mm ASME B36.19M THRD-M NPT x PE 2,87 SML ASTM A312 Gr.TP316/316L | 3/4 | N100SS02653Q00 | 1 | 0.15 |
| 5 | Flange WN ASME B16.5 150LB RF 3,38 FRG ASTM A182 Gr.F316/316L | 1 | FLW0SS00930100 | 1 | 1.42 |
| | | | TOTAL FABRICATION WEIGHT | | 9.49 |

ERECTION MATERIALS

| PT NO | COMPONENT DESCRIPTION | N.S. | ITEM CODE | Q.TY | WEIGHT |
|---|---|---|---|---|---|
| 6 | Cap Forged ASME B16.11 THRD-F NPT 3000# FRG ASTM A182 Gr.F316/316L | 3/4 | CAPFSS00023Q00 | 1 | 0.19 |
| 7 | Gasket Spiral Wound Thk. 3.2 mm ASME B16.20 150LB RF GSK AISI 316 + GRAPHITE c/w INNER RING | 1 | GSW0GK11100100 | 2 | 0.12 |
| 8 | 65 Stud Bolt + 2 Heavy Nuts ASME B1.1 ASTM A193 Gr.B7 - A194 Gr.2H Hot dip galvanized | 1/2 | SB20BO01080200 | 8 | 0.96 |
| 9 | Ball Valve Split Body FB API 6D FLG 150LB RF BS01C01RF | 1 | VBC0NN06950100 | 1 | 6.00 |
| | SUPPORTS | | | | |
| 10 | /PS-03107.1 | 1 | | 1 | 0.19 |
| 11 | /PS-03150.1 | 1 | | 1 | 0.19 |
| | | | TOTAL ERECTION WEIGHT | | 7.65 |
| | | | TOTAL WEIGHT | | 17.14 |

| REFERENCE DOCUMENTS | |
|---|---|
| 123A90-DDL-PP-RE-70001 | STRESS ANALYSIS REPORT |
| 123A90-DDL-PR-PID-80041 | P&ID |
| 123A90-DDL-MAT-SP-60003 | INSULATION SPECIFICATION |
| 123A90-DDL-MAT-SP-60006 | COATING & PAINTING SPEC. |
| 123A90-DDL-PP-00-72000 | PIPING SUPPORT BOOK |
| 123A90-DDL-PP-SP-70029 | PIPING MATERIAL CLASS |

SYMBOLS LEGEND:
BUTT WELD · THREADED · HEAT TRACING · SOCKET · PIPE SUPPORT · INSULATED

| NDT EXAMINATION | | | |
|---|---|---|---|
| NDT TYPE | % | NDT TYPE | % |
| RT | 10 | VT | 100 |
| INSPECTION CATEGORY | 2 | MT/PT | 10 |
| TESTING | | | |
| TEST FLUID | | TEST PRESS. (barg) | |
| Water | | 18 | |
| PROCESS LINE DATA | | | |
| DESIGN TEMP. (°C) | | DESIGN PRESS. (barg) | |
| -29 | 100 | | 12 |

| INSULATION & PAINTING | | |
|---|---|---|
| INS. TYPE | INS. THK. | INS. SURF. (m²) |
| N | | |
| PAINT SYS. | BASE RAL | PAINT. SURF. (m²) |
| 6A | RAL 9002 | 0.36 |
| HEAT TRACING | | |
| - | | |
| LINE DATA | | |
| STRESS SYS. | PED CAT. | PWHT |
| - | Art. 4, par. 3 | No |

| Revision Number | Date | Description | Prepared by | Checked by | Approved by |
|---|---|---|---|---|---|
| 02 | 29/09/25 | AS-BUILT (ASB) | SPS | CBO | CGI |
| 01 | 26/07/24 | ACCEPTED FOR CONSTRUCTION | MMA | CBO | DLO |
| 00 | 07/06/24 | ISSUE FOR REVIEW | MMA | CBO | DLO |

ROSETTI MARINO

# CROSSWIND

DWG TYTLE:

## 1"-IA-215-01SS-N

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK

SCALE N.A.

DRAWN SPS | CHECKED CBO | APPROVED CGI | DATE 29/09/25

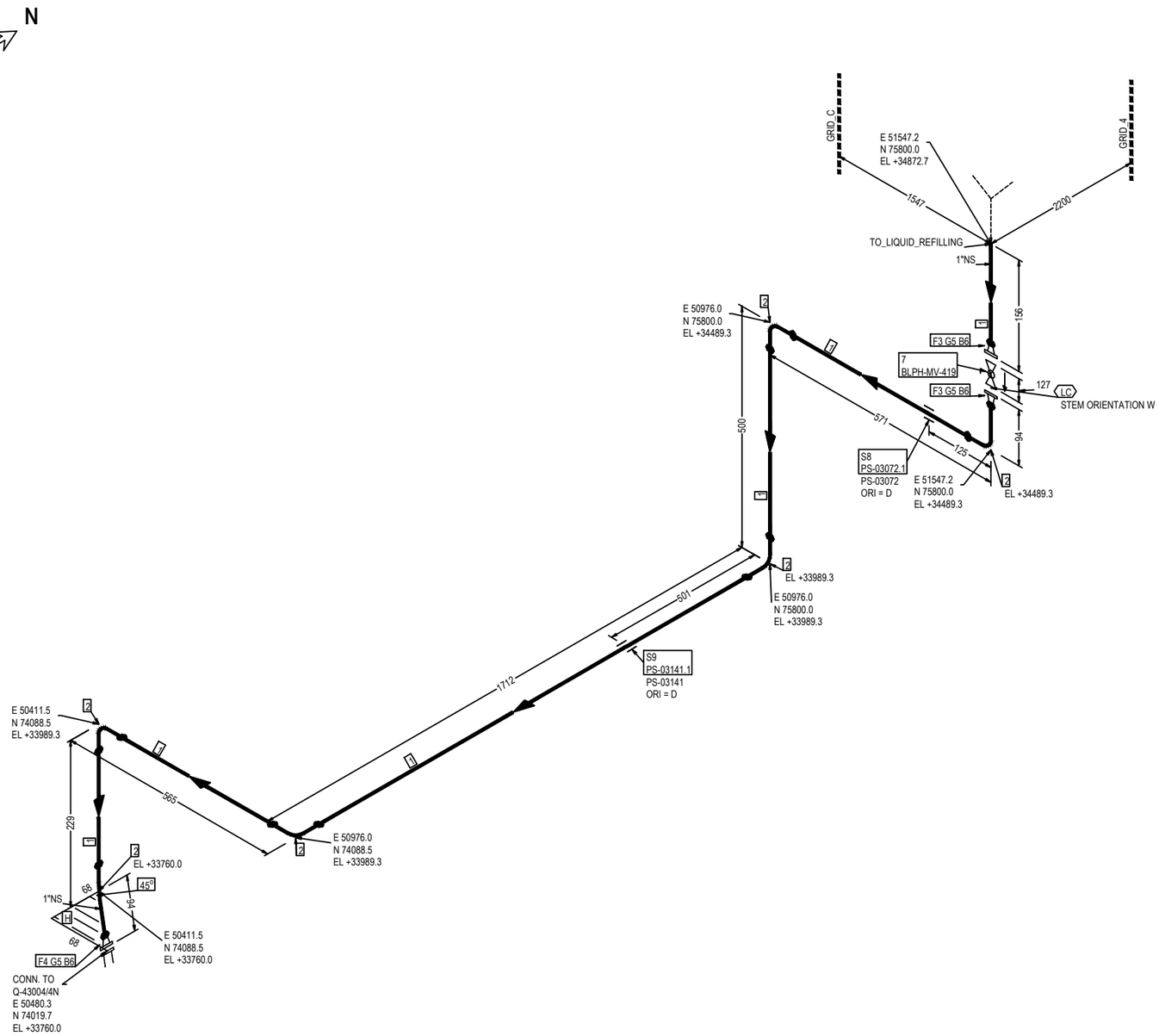
SIZE: A3

DRAWING NO. 123A90-DDL-PP-DI-71000_113

SHEET 1/1

REV. 02

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FABRICATION MATERIALS

| PT NO | COMPONENT DESCRIPTION | N.S. | ITEM CODE | Q.TY | WEIGHT |
|---|---|---|---|---|---|
| 1 | Pipe ASME B36.10M PE 4,55 SML ASTM/ASME A/SA333 Gr.6 | 1 | PIPECS08300100 | 3297MM | 10.55 |
| 2 | 90 Deg Elbow Long Radius ASME B16.9 BW 4,55 WRS ASTM/ASME A/SA420 Gr.WPL6 | 1 | E90RCS01780100 | 6 | 1.08 |
| 3 | Flange WN ASME B16.5 150LB RF 4,55 FRG ASTM/ASME A/SA350 Gr.LF2 | 1 | FLW0CS16540100 | 2 | 2.80 |
| 4 | Flange WN For Jackscrews ASME B16.5 150LB RF 4,55 FRG ASTM/ASME A/SA350 Gr.LF2 | 1 | FLWDCS02740100 | 1 | 1.40 |
| | | | TOTAL FABRICATION WEIGHT | | 15.83 |

ERECTION MATERIALS

| PT NO | COMPONENT DESCRIPTION | N.S. | ITEM CODE | Q.TY | WEIGHT |
|---|---|---|---|---|---|
| 5 | Gasket Spiral Wound Thk. 3.2 mm ASME B16.20 150LB RF GSK AISI 316 + GRAPHITE c/w INNER RING | 1 | GSW0GK11100100 | 3 | 0.18 |
| 6 | 65 Stud Bolt + 2 Heavy Nuts ASME B1.1 ASTM A193 Gr.B7 - A194 Gr.2H Hot dip galvanized | 1/2 | SB20BO01080200 | 12 | 1.44 |
| 7 | Ball Valve Split Body FB API 6D FLG 150LB RF BS01B01RF | 1 | VBC0NN24710100 | 1 | 5.80 |
| | SUPPORTS | | | | |
| 8 | /PS-03072.1 | 1 | | 1 | 0.19 |
| 9 | /PS-03141.1 | 1 | | 1 | 0.19 |
| | | | TOTAL ERECTION WEIGHT | | 7.80 |
| | | | TOTAL WEIGHT | | 23.63 |

| REFERENCE DOCUMENTS | |
|---|---|
| 123A90-DDL-PP-RE-70001 | STRESS ANALYSIS REPORT |
| 123A90-DDL-PR-PID-80029 | P&ID |
| 123A90-DDL-MAT-SP-60003 | INSULATION SPECIFICATION |
| 123A90-DDL-MAT-SP-60006 | COATING & PAINTING SPEC. |
| 123A90-DDL-PP-00-72000 | PIPING SUPPORT BOOK |
| 123A90-DDL-PP-SP-70029 | PIPING MATERIAL CLASS |

SYMBOLS LEGEND:
BUTT WELD · THREADED · HEAT TRACING · SOCKET · PIPE SUPPORT · INSULATED

| NDT EXAMINATION | | | |
|---|---|---|---|
| NDT TYPE | % | NDT TYPE | % |
| RT | 10 | VT | 100 |
| INSPECTION CATEGORY | 2 | MT/PT | 10 |
| TESTING | | | |
| TEST FLUID | | TEST PRESS.(barg) | |
| Water | | 5.25 | |
| PROCESS LINE DATA | | | |
| DESIGN TEMP. (°C) | | DESIGN PRESS.(barg) | |
| -46 | 100 | | 3.5 |

| INSULATION & PAINTING | | |
|---|---|---|
| INS. TYPE | INS. THK. | INS. SURF. (m²) |
| N | | |
| PAINT SYS. | BASE RAL | PAINT. SURF. (m²) |
| 1 | RAL 9002 | 0.41 |
| HEAT TRACING | | |
| - | | |
| LINE DATA | | |
| STRESS SYS. | PED CAT. | PWHT |
| - | Art. 4, par. 3 | No |

| Revision Number | Date | Description | Prepared by | Checked by | Approved by |
|---|---|---|---|---|---|
| 02 | 29/09/25 | AS-BUILT (ASB) | SPS | CBO | CGI |
| 01 | 26/07/24 | ACCEPTED FOR CONSTRUCTION | MMA | CBO | DLO |
| 00 | 07/06/24 | ISSUE FOR REVIEW | MMA | CBO | DLO |

ROSETTI MARINO

# CROSSWIND

DWG TYTLE:

## 1"-WW-216-01CS-N

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK

SCALE N.A.

DRAWN SPS | CHECKED CBO | APPROVED CGI | DATE 29/09/25

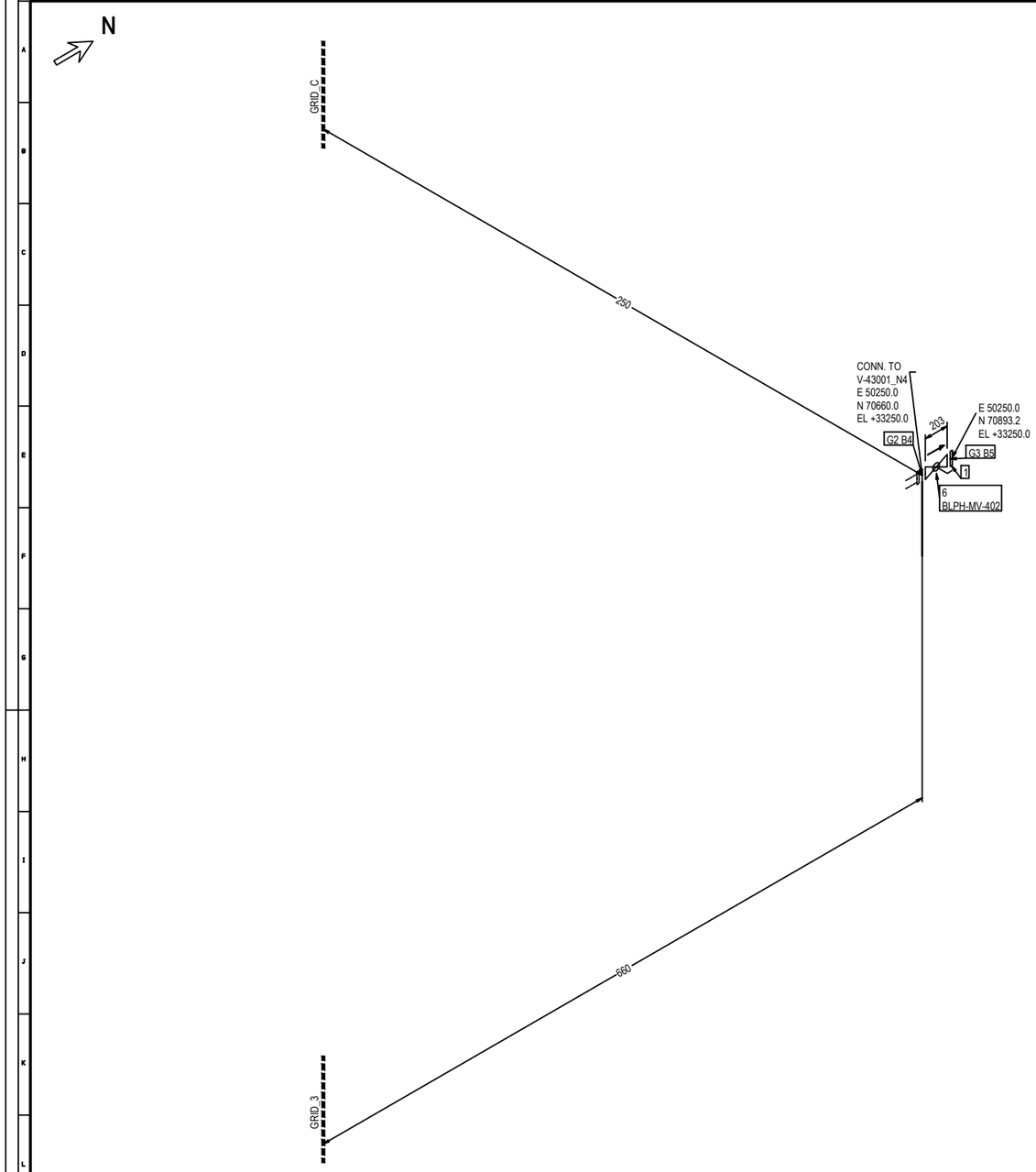
SIZE: A3

DRAWING NO. 123A90-DDL-PP-DI-71000_114

SHEET 1/1

REV. 02

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ERECTION MATERIALS

| PT NO. | COMPONENT DESCRIPTION | N.S. | ITEM CODE | Q.TY | WEIGHT |
|---|---|---|---|---|---|
| 1 | Flange Blind ASME B16.5 150LB RF FRG ASTM A182 Gr.F316/316L | 3 | FLB0SS00030300 | 1 | 4.57 |
| 2 | Insulation Kit Ends as per ASME B16.5 150LB RF | 3 | SPIKNN00570300 | 1 | 0.17 |
| 3 | Gasket Spiral Wound Thk. 3.2 mm ASME B16.20 150LB RF GSK AISI 316 + GRAPHITE c/w INNER RING | 3 | GSW0GK11140300 | 1 | 0.17 |
| 4 | 105 Stud Bolt + 2 Heavy Nuts ASME B1.1 ASTM A193 Gr.B7 - A194 Gr.2H Hot dip galvanized | 5/8 | SB20BO04200300 | 4 | 1.08 |
| 5 | 90 Stud Bolt + 2 Heavy Nuts ASME B1.1 ASTM A193 Gr.B7 - A194 Gr.2H Hot dip galvanized | 5/8 | SB20BO04190300 | 4 | 1.00 |
| 6 | Ball Valve Split Body RB API 6D FLG 150LB RF BC01C01RFH | 3 | VBD0NN16460300 | 1 | 23.30 |

TOTAL ERECTION WEIGHT 30.29

TOTAL WEIGHT 30.29

| REFERENCE DOCUMENTS | |
|---|---|
| 123A90-DDL-PP-RE-70001 | STRESS ANALYSIS REPORT |
| 123A90-DDL-PR-PID-80029 | P&ID |
| 123A90-DDL-MAT-SP-60003 | INSULATION SPECIFICATION |
| 123A90-DDL-MAT-SP-60006 | COATING & PAINTING SPEC. |
| 123A90-DDL-PP-00-72000 | PIPING SUPPORT BOOK |
| 123A90-DDL-PP-SP-70029 | PIPING MATERIAL CLASS |

SYMBOLS LEGEND:
BUTT WELD · THREADED · HEAT TRACING
SOCKET · PIPE SUPPORT · INSULATED

| NDT EXAMINATION | | | |
|---|---|---|---|
| NDT TYPE | % | NDT TYPE | % |
| RT | 100 | VT | 100 |
| INSPECTION CATEGORY | 1 | MT/PT | 100 |
| TESTING | | | |
| TEST FLUID | | TEST PRESS. (barg) | |
| Water | | 5.25 | |
| PROCESS LINE DATA | | | |
| DESIGN TEMP. (°C) | | DESIGN PRESS. (barg) | |
| -29 | 100 | | 3.50 |

| INSULATION & PAINTING | | |
|---|---|---|
| INS. TYPE | INS. THK. | INS. SURF. (m²) |
| N | | |
| PAINT SYS. | BASE RAL | PAINT. SURF. (m²) |
| 6A | RAL 9002 | 0.07 |
| HEAT TRACING | | |
| - | | |
| LINE DATA | | |
| STRESS SYS. | PED CAT. | PWHT |
| - | I | No |

| Revision Number | Date | Description | Prepared by | Checked by | Approved by |
|---|---|---|---|---|---|
| 02 | 29/09/25 | AS-BUILT (ASB) | SPS | CBO | CGI |
| 01 | 26/07/24 | ACCEPTED FOR CONSTRUCTION | MMA | CBO | DLO |
| 00 | 07/06/24 | ISSUE FOR REVIEW | MMA | CBO | DLO |

ROSETTI MARINO

# CROSSWIND

DWG TYTLE:

## 3"-VL-220-01HSS-N

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK

SCALE N.A.

DRAWN SPS | CHECKED CBO | APPROVED CGI | DATE 29/09/25

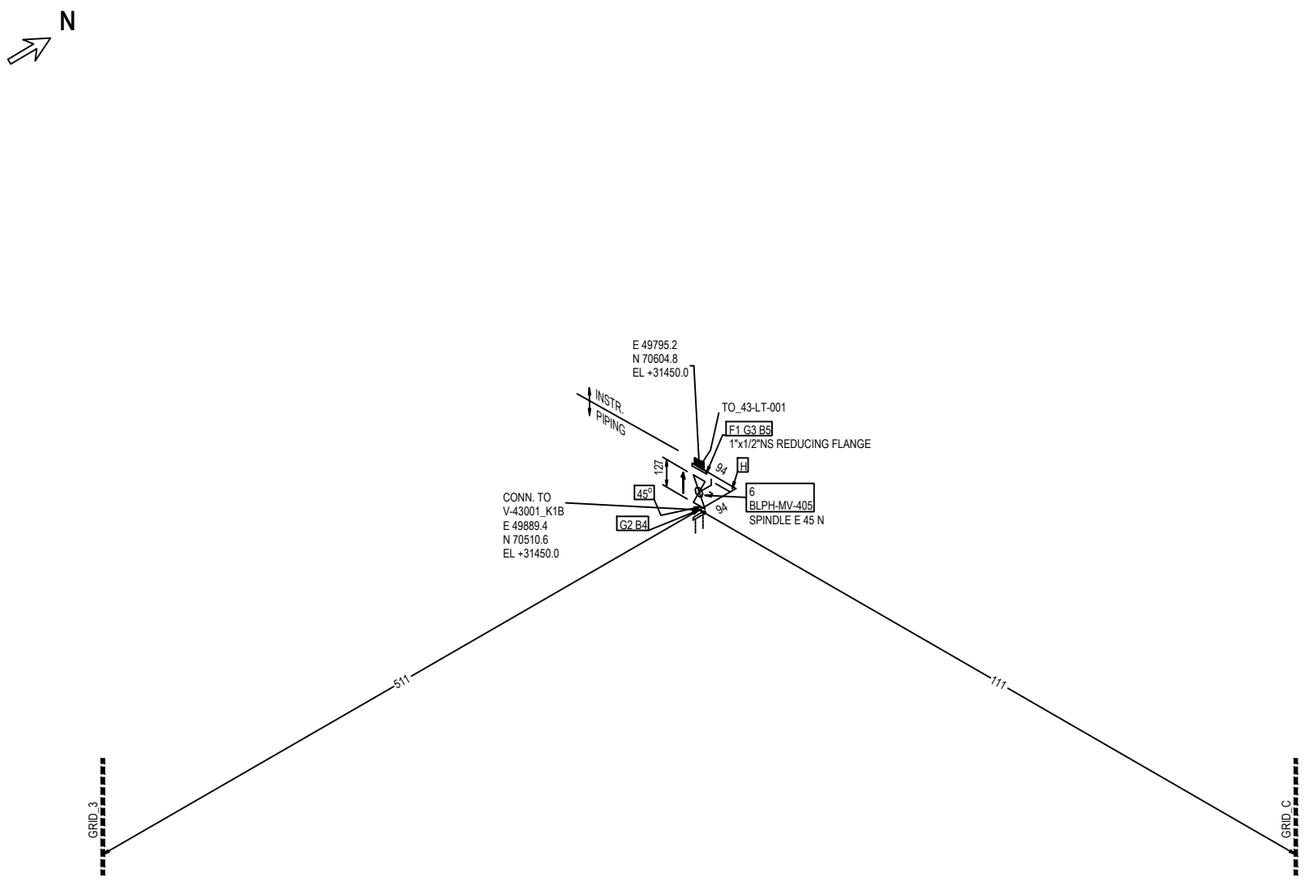
SIZE: A3

DRAWING NO. 123A90-DDL-PP-DI-71000-116

SHEET 1/4

REV. 02

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ERECTION MATERIALS

| PT NO | COMPONENT DESCRIPTION | N.S. | ITEM CODE | Q.TY | WEIGHT |
|---|---|---|---|---|---|
| 1 | Flange Reducing ASME B16.5 THRD-F NPT 150LB RF FRG ASTM A182 Gr.F316/316L | 1 x 1/2 | FLR0SS0034010H | 1 | 0.91 |
| 2 | Insulation Kit Ends as per ASME B16.5 150LB RF | 1 | SPIKNN01220100 | 1 | 0.06 |
| 3 | Gasket Spiral Wound Thk. 3.2 mm ASME B16.20 150LB RF GSK AISI 316 + GRAPHITE c/w INNER RING | 1 | GSW0GK11100100 | 1 | 0.06 |
| 4 | 80 Stud Bolt + 2 Heavy Nuts ASME B1.1 ASTM A193 Gr.B7 - A194 Gr.2H Hot dip galvanized | 1/2 | SB20BO00980200 | 4 | 0.52 |
| 5 | 65 Stud Bolt + 2 Heavy Nuts ASME B1.1 ASTM A193 Gr.B7 - A194 Gr.2H Hot dip galvanized | 1/2 | SB20BO01080200 | 4 | 0.48 |
| 6 | Ball Valve Split Body FB API 6D FLG 150LB RF BS01C01RFH | 1 | VBC0NN24350100 | 1 | 5.80 |
| | | | TOTAL ERECTION WEIGHT | | 7.83 |
| | | | TOTAL WEIGHT | | 7.83 |

| REFERENCE DOCUMENTS | |
|---|---|
| 123A90-DDL-PP-RE-70001 | STRESS ANALYSIS REPORT |
| 123A90-DDL-PR-PID-80029 | P&ID |
| 123A90-DDL-MAT-SP-60003 | INSULATION SPECIFICATION |
| 123A90-DDL-MAT-SP-60006 | COATING & PAINTING SPEC. |
| 123A90-DDL-PP-00-72000 | PIPING SUPPORT BOOK |
| 123A90-DDL-PP-SP-70029 | PIPING MATERIAL CLASS |

SYMBOLS LEGEND:
BUTT WELD — THREADED — HEAT TRACING
SOCKET — PIPE SUPPORT — INSULATED

| NDT EXAMINATION | | | |
|---|---|---|---|
| NDT TYPE | % | NDT TYPE | % |
| RT | 100 | VT | 100 |
| INSPECTION CATEGORY | 1 | MT/PT | 100 |
| TESTING | | | |
| TEST FLUID | | TEST PRESS.(barg) | |
| Water | | 5.25 | |
| PROCESS LINE DATA | | | |
| DESIGN TEMP. (°C) | | DESIGN PRESS.(barg) | |
| -29 | 100 | | 3.50 |

| INSULATION & PAINTING | | |
|---|---|---|
| INS. TYPE | INS. THK. | INS. SURF. (m²) |
| H | 25mm | |
| PAINT SYS. | BASE RAL | PAINT. SURF. (m²) |
| 6C | | 0.01 |
| HEAT TRACING | | |
| YES | | |
| LINE DATA | | |
| STRESS SYS. | PED CAT. | PWHT |
| - | I | No |

| Revision Number | Date | Description | Prepared by | Checked by | Approved by |
|---|---|---|---|---|---|
| 02 | 29/09/25 | AS-BUILT (ASB) | SPS | CBO | CGI |
| 01 | 26/07/24 | ACCEPTED FOR CONSTRUCTION | MMA | CBO | DLO |
| 00 | 07/06/24 | ISSUE FOR REVIEW | MMA | CBO | DLO |

ROSETTI MARINO

# CROSSWIND

DWG TYTLE:

## 1"-VL-220-01HSS-N

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK

SCALE N.A.

DRAWN SPS | CHECKED CBO | APPROVED CGI | DATE 29/09/25

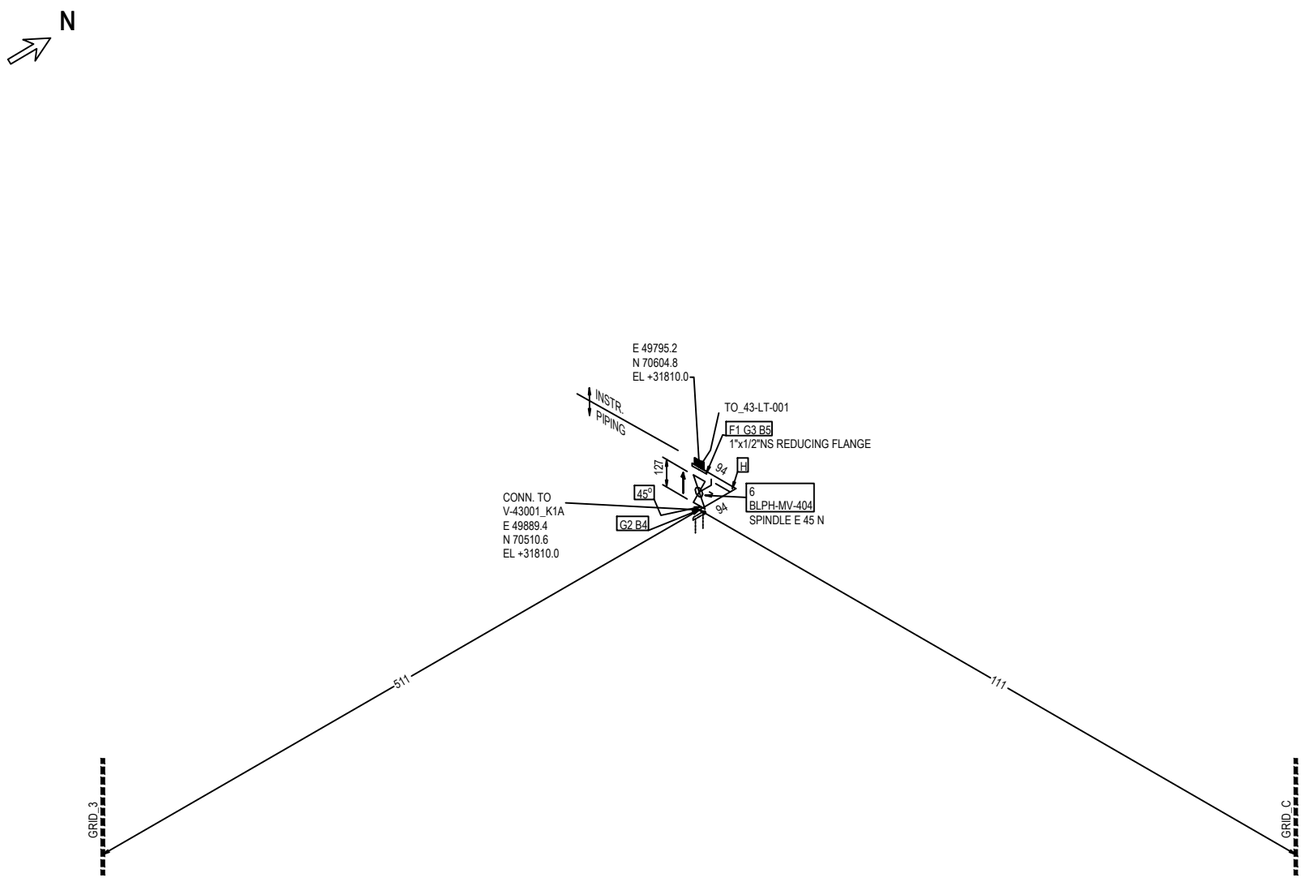
SIZE: A3

DRAWING NO. 123A90-DDL-PP-DI-71000-116

SHEET 2/4

REV. 02

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ERECTION MATERIALS

| PT NO | COMPONENT DESCRIPTION | N.S. | ITEM CODE | Q.TY | WEIGHT |
|---|---|---|---|---|---|
| 1 | Flange Reducing ASME B16.5 THRD-F NPT 150LB RF FRG ASTM A182 Gr.F316/316L | 1 x 1/2 | FLR0SS0034010H | 1 | 0.91 |
| 2 | Insulation Kit Ends as per ASME B16.5 150LB RF | 1 | SPIKNN01220100 | 1 | 0.06 |
| 3 | Gasket Spiral Wound Thk. 3.2 mm ASME B16.20 150LB RF GSK AISI 316 + GRAPHITE c/w INNER RING | 1 | GSW0GK11100100 | 1 | 0.06 |
| 4 | 80 Stud Bolt + 2 Heavy Nuts ASME B1.1 ASTM A193 Gr.B7 - A194 Gr.2H Hot dip galvanized | 1/2 | SB20BO00980200 | 4 | 0.52 |
| 5 | 65 Stud Bolt + 2 Heavy Nuts ASME B1.1 ASTM A193 Gr.B7 - A194 Gr.2H Hot dip galvanized | 1/2 | SB20BO01080200 | 4 | 0.48 |
| 6 | Ball Valve Split Body FB API 6D FLG 150LB RF BS01C01RFH | 1 | VBC0NN24350100 | 1 | 5.80 |
| | | | | TOTAL ERECTION WEIGHT | 7.83 |
| | | | | TOTAL WEIGHT | 7.83 |

| REFERENCE DOCUMENTS | |
|---|---|
| 123A90-DDL-PP-RE-70001 | STRESS ANALYSIS REPORT |
| 123A90-DDL-PR-PID-80029 | P&ID |
| 123A90-DDL-MAT-SP-60003 | INSULATION SPECIFICATION |
| 123A90-DDL-MAT-SP-60006 | COATING & PAINTING SPEC. |
| 123A90-DDL-PP-00-72000 | PIPING SUPPORT BOOK |
| 123A90-DDL-PP-SP-70029 | PIPING MATERIAL CLASS |

SYMBOLS LEGEND:
BUTT WELD — THREADED — HEAT TRACING
SOCKET — PIPE SUPPORT — INSULATED

| NDT EXAMINATION | | | |
|---|---|---|---|
| NDT TYPE | % | NDT TYPE | % |
| RT | 100 | VT | 100 |
| INSPECTION CATEGORY | 1 | MT/PT | 100 |
| TESTING | | | |
| TEST FLUID | | TEST PRESS.(barg) | |
| Water | | 5.25 | |
| PROCESS LINE DATA | | | |
| DESIGN TEMP. (°C) | | DESIGN PRESS.(barg) | |
| -29 | 100 | | 3.50 |

| INSULATION & PAINTING | | |
|---|---|---|
| INS. TYPE | INS. THK. | INS. SURF. (m²) |
| H | 25mm | |
| PAINT SYS. | BASE RAL | PAINT. SURF. (m²) |
| 6C | | 0.01 |
| HEAT TRACING | | |
| YES | | |
| LINE DATA | | |
| STRESS SYS. | PED CAT. | PWHT |
| - | I | No |

| Revision Number | Date | Description | Prepared by | Checked by | Approved by |
|---|---|---|---|---|---|
| 02 | 29/09/25 | AS-BUILT (ASB) | SPS | CBO | CGI |
| 01 | 26/07/24 | ACCEPTED FOR CONSTRUCTION | MMA | CBO | DLO |
| 00 | 07/06/24 | ISSUE FOR REVIEW | MMA | CBO | DLO |

ROSETTI MARINO

# CROSSWIND

DWG TYTLE:

## 1"-VL-220-01HSS-N

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK

SCALE N.A.

DRAWN SPS | CHECKED CBO | APPROVED CGI | DATE 29/09/25

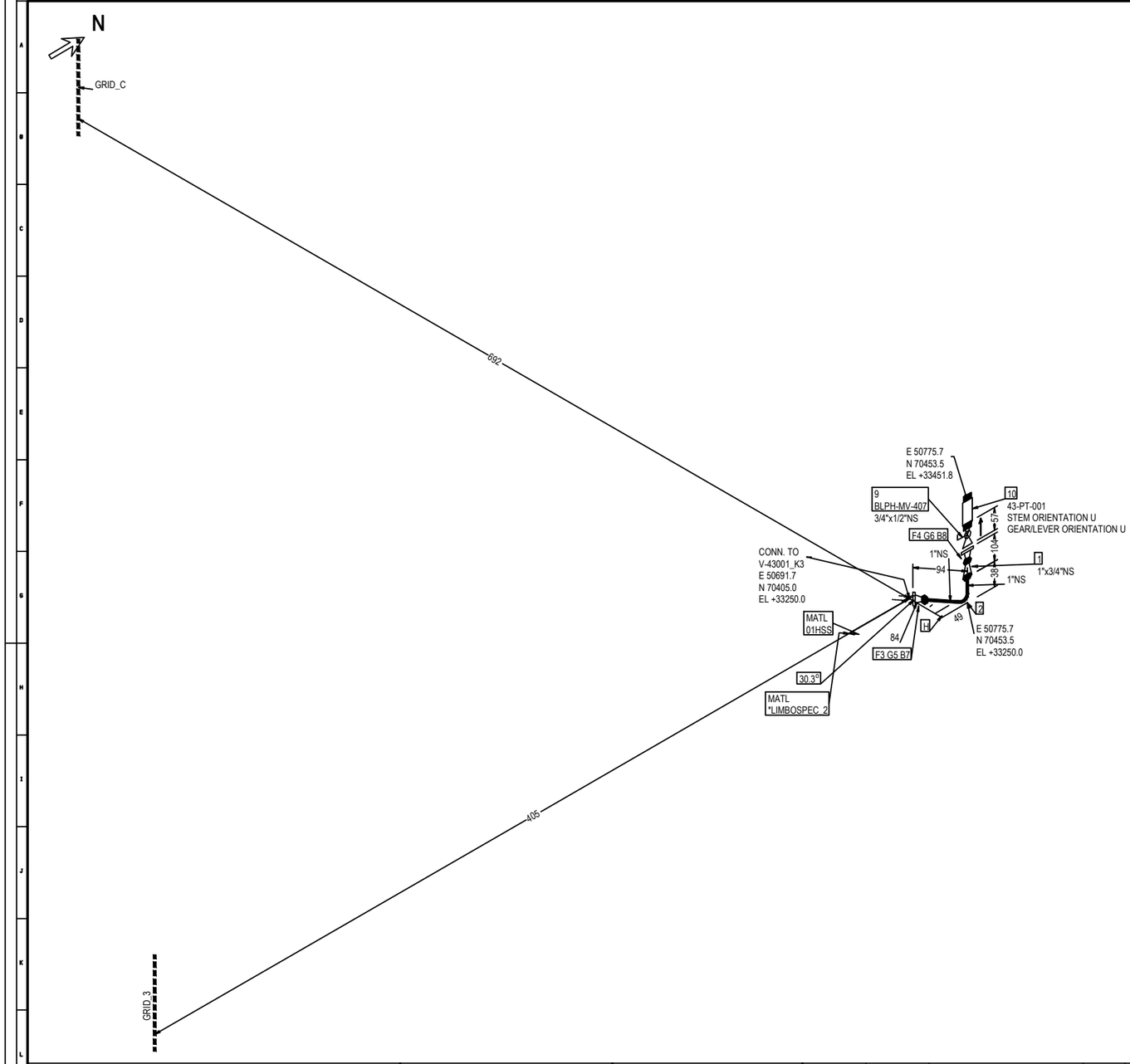
SIZE: A3

DRAWING NO. 123A90-DDL-PP-DI-71000-116

SHEET 3/4

REV. 02

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FABRICATION MATERIALS

| PT NO | COMPONENT DESCRIPTION | N.S. | ITEM CODE | Q.TY | WEIGHT |
|---|---|---|---|---|---|
| 1 | Reducer Concentric ASME B16.9 BW 3,38x2,87 WRS ASTM A403 Gr.WP316/316L | 1 x 3/4 | REC0SS0120013Q | 1 | 0.14 |
| 2 | 90 Deg Elbow Long Radius ASME B16.9 BW 3,38 WRS ASTM A403 Gr.WP316/316L | 1 | E90RSS00670100 | 1 | 0.14 |
| 3 | Flange WN ASME B16.5 150LB RF 3,38 FRG ASTM A182 Gr.F316/316L | 1 | FLW0SS00930100 | 1 | 1.42 |
| 4 | Flange WN ASME B16.5 150LB RF 2,87 FRG ASTM A182 Gr.F316/316L | 3/4 | FLW0SS00923Q00 | 1 | 0.91 |
| | | | TOTAL FABRICATION WEIGHT | | 2.61 |

ERECTION MATERIALS

| PT NO | COMPONENT DESCRIPTION | N.S. | ITEM CODE | Q.TY | WEIGHT |
|---|---|---|---|---|---|
| 5 | Insulation Kit Ends as per ASME B16.5 150LB RF | 1 | SPIKNN01220100 | 1 | 0.06 |
| 6 | Gasket Spiral Wound Thk. 3.2 mm ASME B16.20 150LB RF GSK AISI 316 + GRAPHITE c/w INNER RING | 3/4 | GSW0GK11093Q00 | 1 | 0.05 |
| 7 | 80 Stud Bolt + 2 Heavy Nuts ASME B1.1 ASTM A193 Gr.B7 - A194 Gr.2H Hot dip galvanized | 1/2 | SB20BO00980200 | 4 | 0.52 |
| 8 | 65 Stud Bolt + 2 Heavy Nuts ASME B1.1 ASTM A193 Gr.B7 - A194 Gr.2H Hot dip galvanized | 1/2 | SB20BO01080200 | 4 | 0.48 |
| 9 | Monoflange Block & Bleed Valve API 6D FLG x THRD-F NPT 150LB RF MS01C02YH | 3/4 x 1/2 | VLBNNN00023Q0H | 1 | 4.30 |
| | INSTRUMENTS | | | | |
| 10 | Pressure Transmitter 43-PT-001 | 1/2 | | 1 | --- |
| | | | TOTAL ERECTION WEIGHT | | 5.41 |
| | | | TOTAL WEIGHT | | 8.02 |

| REFERENCE DOCUMENTS | |
|---|---|
| 123A90-DDL-PP-RE-70001 | STRESS ANALYSIS REPORT |
| 123A90-DDL-PR-PID-80029 | P&ID |
| 123A90-DDL-MAT-SP-60003 | INSULATION SPECIFICATION |
| 123A90-DDL-MAT-SP-60006 | COATING & PAINTING SPEC. |
| 123A90-DDL-PP-00-72000 | PIPING SUPPORT BOOK |
| 123A90-DDL-PP-SP-70029 | PIPING MATERIAL CLASS |

SYMBOLS LEGEND:
BUTT WELD · THREADED · HEAT TRACING · SOCKET · PIPE SUPPORT · INSULATED

| NDT EXAMINATION | | | |
|---|---|---|---|
| NDT TYPE | % | NDT TYPE | % |
| RT | 100 | VT | 100 |
| INSPECTION CATEGORY | 1 | MT/PT | 100 |

| TESTING | |
|---|---|
| TEST FLUID | TEST PRESS. [barg] |
| Water | 5.25 |

| PROCESS LINE DATA | | | |
|---|---|---|---|
| DESIGN TEMP. [°C] | | DESIGN PRESS. [barg] | |
| -29 | 100 | | 3.50 |

| INSULATION & PAINTING | | |
|---|---|---|
| INS. TYPE | INS. THK. | INS. SURF. [m²] |
| N | - | |
| PAINT SYS. | BASE RAL | PAINT. SURF. [m²] |
| 6A | RAL 9002 | 0.03 |

| HEAT TRACING |
|---|
| - |

| LINE DATA | | |
|---|---|---|
| STRESS SYS. | PED CAT. | PWHT |
| - | I | No |

| Revision Number | Date | Description | Prepared by | Checked by | Approved by |
|---|---|---|---|---|---|
| 02 | 29/09/25 | AS-BUILT (ASB) | SPS | CBO | CGI |
| 01 | 26/07/24 | ACCEPTED FOR CONSTRUCTION | MMA | CBO | DLO |
| 00 | 07/06/24 | ISSUE FOR REVIEW | MMA | CBO | DLO |

ROSETTI MARINO

# CROSSWIND

DWG TYTLE:

# 1"-VL-220-01HSS-N

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK

SCALE N.A.

DRAWN SPS | CHECKED CBO | APPROVED CGI | DATE 29/09/25

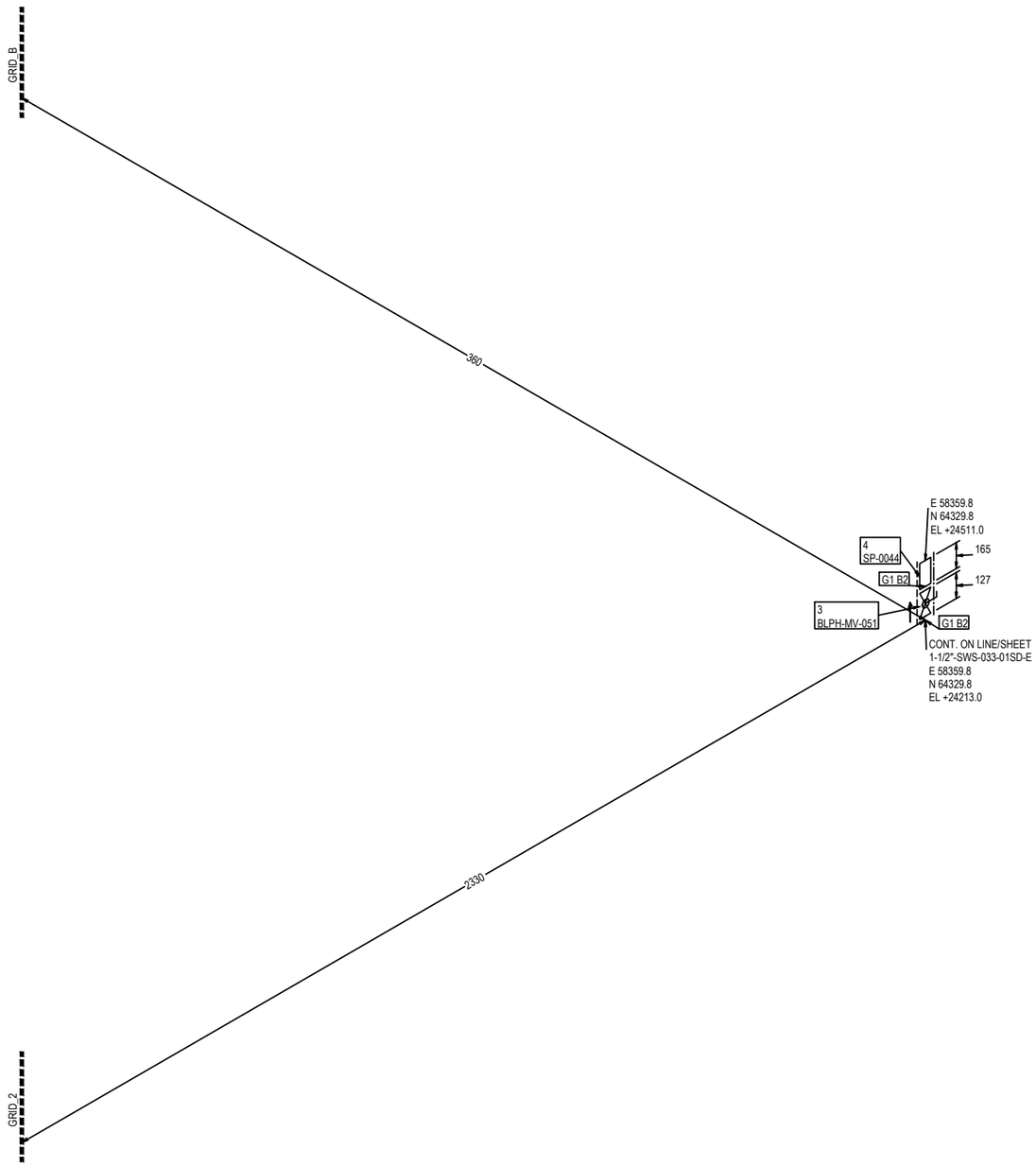
SIZE: A3

DRAWING NO. 123A90-DDL-PP-DI-71000-116

SHEET 4/4

REV. 02

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ERECTION MATERIALS

| PT NO | COMPONENT DESCRIPTION | N.S. | ITEM CODE | Q.TY | WEIGHT |
|---|---|---|---|---|---|
| 1 | Gasket Flat Thk. 3 mm ASME B16.21 150LB RF GSK NEOPRENE | 1 | GFL3GK15970100 | 2 | 0.02 |
| 2 | 65 Stud Bolt + 2 Heavy Nuts ASME B1.1 ASTM A193 Gr.B7 - A194 Gr.2H Hot dip galvanized | 1/2 | SB20BO01080200 | 8 | 0.96 |
| 3 | Ball Valve Split Body FB API 6D FLG 150LB RF BS01F01RF | 1 | VBC0NN24440100 | 1 | 8.00 |
| 4 | Air Release Valve Manuf.s STD FLG 150LB RF SP-0043 | 1 | SPARNN00010100 | 1 | 0.00 |
| | | | TOTAL ERECTION WEIGHT | | 8.98 |
| | | | TOTAL WEIGHT | | 8.98 |

| REFERENCE DOCUMENTS | |
|---|---|
| 123A90-DDL-PP-RE-70001 | STRESS ANALYSIS REPORT |
| 123A90-DDL-PR-PID-80021 | P&ID |
| 123A90-DDL-MAT-SP-60003 | INSULATION SPECIFICATION |
| 123A90-DDL-MAT-SP-60006 | COATING & PAINTING SPEC. |
| 123A90-DDL-PP-00-72000 | PIPING SUPPORT BOOK |
| 123A90-DDL-PP-SP-70029 | PIPING MATERIAL CLASS |

SYMBOLS LEGEND:
BUTT WELD · THREADED · HEAT TRACING · SOCKET · PIPE SUPPORT · INSULATED

| NDT EXAMINATION | | | |
|---|---|---|---|
| NDT TYPE | % | NDT TYPE | % |
| RT | 10 | VT | 100 |
| INSPECTION CATEGORY | 2 | MT/PT | 10 |
| TESTING | | | |
| TEST FLUID | | TEST PRESS. (barg) | |
| N/A | | N/A | |
| PROCESS LINE DATA | | | |
| DESIGN TEMP. (°C) | | DESIGN PRESS. (barg) | |
| -29 | 100 | | 7.6 |

| INSULATION & PAINTING | | |
|---|---|---|
| INS. TYPE | INS. THK. | INS. SURF. (m²) |
| H | 20mm | 0.08 |
| PAINT SYS. | BASE RAL | PAINT. SURF. (m²) |
| N/A | N/A | |
| HEAT TRACING | | |
| YES | | |
| LINE DATA | | |
| STRESS SYS. | PED CAT. | PWHT |
| - | Art. 4, par. 3 | No |

| Revision Number | Date | Description | Prepared by | Checked by | Approved by |
|---|---|---|---|---|---|
| 02 | 29/09/25 | AS-BUILT (ASB) | SPS | CBO | CGI |
| 01 | 26/07/24 | ACCEPTED FOR CONSTRUCTION | MMA | CBO | DLO |
| 00 | 07/06/24 | ISSUE FOR REVIEW | MMA | CBO | DLO |

ROSETTI MARINO

# CROSSWIND

DWG TYTLE:

## 1"-SWS-221-01SD-E

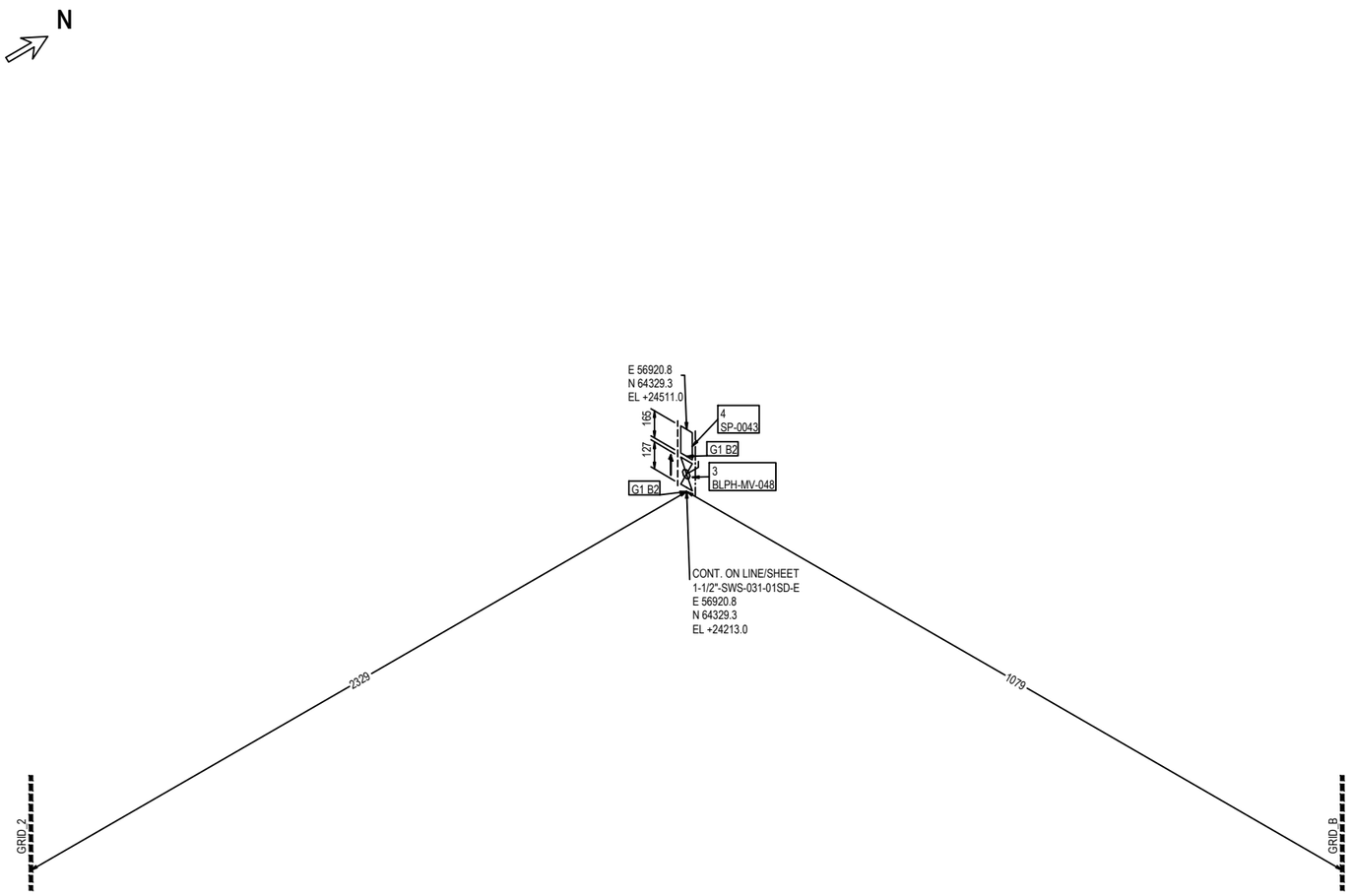
CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK

SCALE N.A.

DRAWN SPS | CHECKED CBO | APPROVED CGI | DATE 29/09/25

SIZE: A3 | DRAWING NO. 123A90-DDL-PP-DI-71000_117 | SHEET 1/1 | REV. 02

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ERECTION MATERIALS

| PT NO | COMPONENT DESCRIPTION | N.S. | ITEM CODE | Q.TY | WEIGHT |
|---|---|---|---|---|---|
| 1 | Gasket Flat Thk. 3 mm ASME B16.21 150LB RF GSK NEOPRENE | 1 | GFL3GK15970100 | 2 | 0.02 |
| 2 | 65 Stud Bolt + 2 Heavy Nuts ASME B1.1 ASTM A193 Gr.B7 - A194 Gr.2H Hot dip galvanized | 1/2 | SB20BO01080200 | 8 | 0.96 |
| 3 | Ball Valve Split Body FB API 6D FLG 150LB RF BS01F01RF | 1 | VBC0NN24440100 | 1 | 8.00 |
| 4 | Air Release Valve Manuf.s STD FLG 150LB RF SP-0043 | 1 | SPARNN00010100 | 1 | 0.00 |
| | | | TOTAL ERECTION WEIGHT | | 8.98 |
| | | | TOTAL WEIGHT | | 8.98 |

| REFERENCE DOCUMENTS | |
|---|---|
| 123A90-DDL-PP-RE-70001 | STRESS ANALYSIS REPORT |
| 123A90-DDL-PR-PID-80021 | P&ID |
| 123A90-DDL-MAT-SP-60003 | INSULATION SPECIFICATION |
| 123A90-DDL-MAT-SP-60006 | COATING & PAINTING SPEC. |
| 123A90-DDL-PP-00-72000 | PIPING SUPPORT BOOK |
| 123A90-DDL-PP-SP-70029 | PIPING MATERIAL CLASS |

SYMBOLS LEGEND:
BUTT WELD · THREADED · HEAT TRACING
SOCKET · PIPE SUPPORT · INSULATED

| NDT EXAMINATION | | | |
|---|---|---|---|
| NDT TYPE | % | NDT TYPE | % |
| RT | 10 | VT | 100 |
| INSPECTION CATEGORY | 2 | MT/PT | 10 |
| TESTING | | | |
| TEST FLUID | | TEST PRESS.(barg) | |
| N/A | | N/A | |

| PROCESS LINE DATA | | | |
|---|---|---|---|
| DESIGN TEMP. (°C) | | DESIGN PRESS.(barg) | |
| -29 | 100 | | 7.6 |

| INSULATION & PAINTING | | |
|---|---|---|
| INS. TYPE | INS. THK. | INS. SURF. (m²) |
| H | 20mm | 0.08 |
| PAINT SYS. | BASE RAL | PAINT. SURF. (m²) |
| N/A | N/A | |
| HEAT TRACING | | |
| YES | | |

| LINE DATA | | |
|---|---|---|
| STRESS SYS. | PED CAT. | PWHT |
| - | Art. 4, par. 3 | No |

| Revision Number | Date | Description | Prepared by | Checked by | Approved by |
|---|---|---|---|---|---|
| 02 | 29/09/25 | AS-BUILT (ASB) | SPS | CBO | CGI |
| 01 | 26/07/24 | ACCEPTED FOR CONSTRUCTION | MMA | CBO | DLO |
| 00 | 07/06/24 | ISSUE FOR REVIEW | MMA | CBO | DLO |

ROSETTI MARINO

# CROSSWIND

DWG TYTLE:

# 1"-SWS-222-01SD-E

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK

SCALE N.A.

DRAWN SPS | CHECKED CBO | APPROVED CGI | DATE 29/09/25

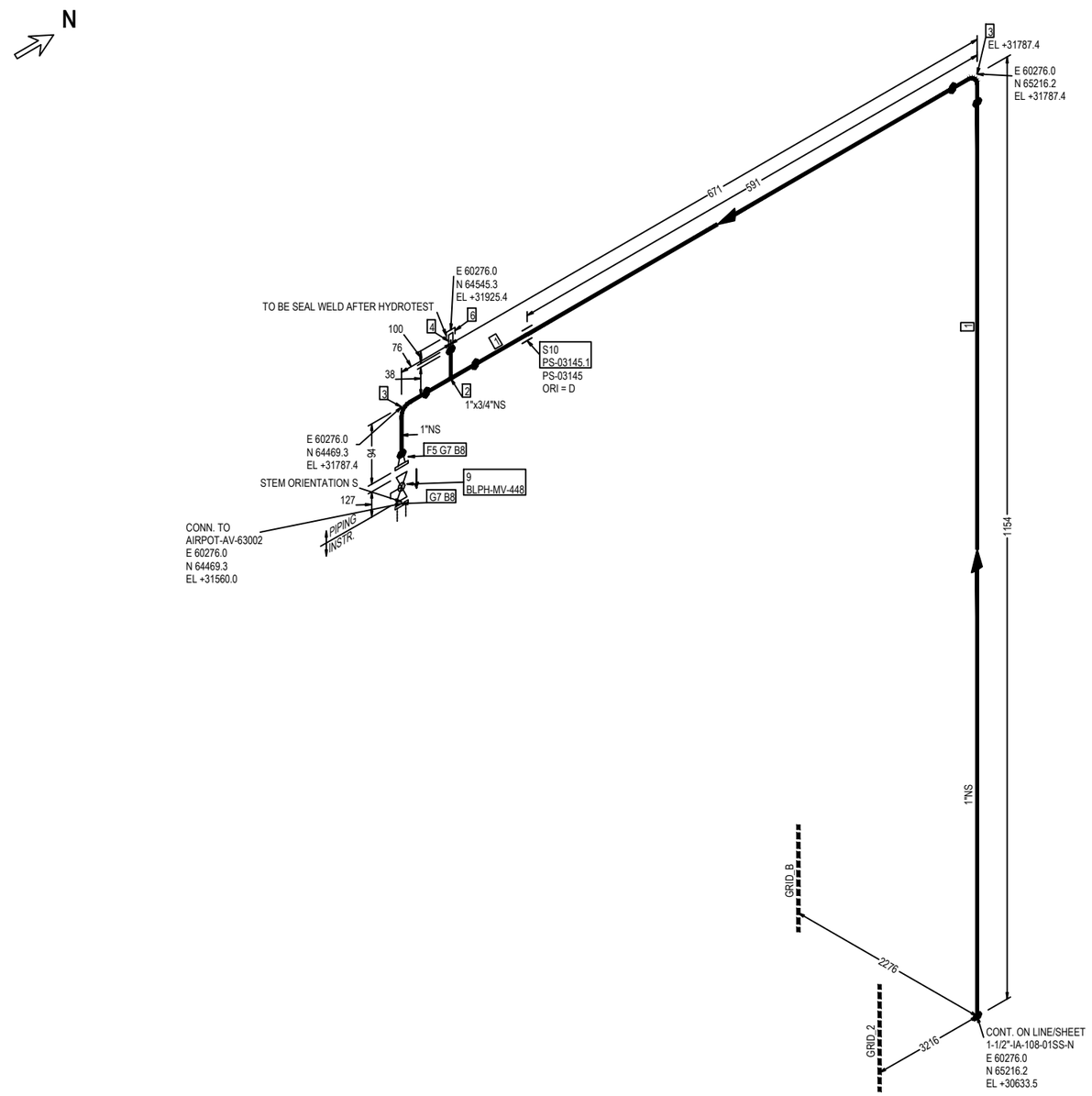
SIZE: A3

DRAWING NO. 123A90-DDL-PP-DI-71000_118

SHEET 1/1

REV. 02

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FABRICATION MATERIALS

| PT NO | COMPONENT DESCRIPTION | N.S. | ITEM CODE | Q.TY | WEIGHT |
|---|---|---|---|---|---|
| 1 | Pipe ASME B36.19M PE 3,38 SML ASTM A312 Gr.TP316/316L | 1 | PIPESS00480100 | 1711MM | 4.28 |
| 2 | Tee Reducing ASME B16.9 BW 3,38x2,87 WRS ASTM A403 Gr.WP316/316L | 1 x 3/4 | TER0SS0171013Q | 1 | 0.34 |
| 3 | 90 Deg Elbow Long Radius ASME B16.9 BW 3,38 WRS ASTM A403 Gr.WP316/316L | 1 | E90RSS00670100 | 2 | 0.28 |
| 4 | Nipple L=100mm ASME B36.19M THRD-M NPT x PE 2,87 SML ASTM A312 Gr.TP316/316L | 3/4 | N100SS02653Q00 | 1 | 0.15 |
| 5 | Flange WN ASME B16.5 150LB RF 3,38 FRG ASTM A182 Gr.F316/316L | 1 | FLW0SS00930100 | 1 | 1.42 |
| | | | TOTAL FABRICATION WEIGHT | | 6.47 |

ERECTION MATERIALS

| PT NO | COMPONENT DESCRIPTION | N.S. | ITEM CODE | Q.TY | WEIGHT |
|---|---|---|---|---|---|
| 6 | Cap Forged ASME B16.11 THRD-F NPT 3000# FRG ASTM A182 Gr.F316/316L | 3/4 | CAPFSS00023Q00 | 1 | 0.19 |
| 7 | Gasket Spiral Wound Thk. 3.2 mm ASME B16.20 150LB RF GSK AISI 316 + GRAPHITE c/w INNER RING | 1 | GSW0GK11100100 | 2 | 0.12 |
| 8 | 65 Stud Bolt + 2 Heavy Nuts ASME B1.1 ASTM A193 Gr.B7 - A194 Gr.2H Hot dip galvanized | 1/2 | SB20BO01080200 | 8 | 0.96 |
| 9 | Ball Valve Split Body FB API 6D FLG 150LB RF BS01C01RF | 1 | VBC0NN06950100 | 1 | 6.00 |
| | SUPPORTS | | | | |
| 10 | /PS-03145.1 | 1 | | 1 | 0.19 |
| | | | TOTAL ERECTION WEIGHT | | 7.46 |
| | | | TOTAL WEIGHT | | 13.93 |

| REFERENCE DOCUMENTS | |
|---|---|
| 123A90-DDL-PP-RE-70001 | STRESS ANALYSIS REPORT |
| 123A90-DDL-PR-PID-80041 | P&ID |
| 123A90-DDL-MAT-SP-60003 | INSULATION SPECIFICATION |
| 123A90-DDL-MAT-SP-60006 | COATING & PAINTING SPEC. |
| 123A90-DDL-PP-00-72000 | PIPING SUPPORT BOOK |
| 123A90-DDL-PP-SP-70029 | PIPING MATERIAL CLASS |

SYMBOLS LEGEND:
BUTT WELD · THREADED · HEAT TRACING · SOCKET · PIPE SUPPORT · INSULATED

| NDT EXAMINATION | | | |
|---|---|---|---|
| NDT TYPE | % | NDT TYPE | % |
| RT | 10 | VT | 100 |
| INSPECTION CATEGORY | 2 | MT/PT | 10 |
| TESTING | | | |
| TEST FLUID | | TEST PRESS. (barg) | |
| Water | | 18 | |

| PROCESS LINE DATA | | | |
|---|---|---|---|
| DESIGN TEMP. (°C) | | DESIGN PRESS. (barg) | |
| -29 | 100 | | 12 |

| INSULATION & PAINTING | | |
|---|---|---|
| INS. TYPE | INS. THK. | INS. SURF. (m²) |
| N | | |
| PAINT SYS. | BASE RAL | PAINT. SURF. (m²) |
| 6A | RAL 9002 | 0.23 |
| HEAT TRACING | | |
| - | | |

| LINE DATA | | |
|---|---|---|
| STRESS SYS. | PED CAT. | PWHT |
| - | Art. 4, par. 3 | No |

| Revision Number | Date | Description | Prepared by | Checked by | Approved by |
|---|---|---|---|---|---|
| 02 | 29/09/25 | AS-BUILT (ASB) | SPS | CBO | CGI |
| 01 | 26/07/24 | ACCEPTED FOR CONSTRUCTION | MMA | CBO | DLO |
| 00 | 07/06/24 | ISSUE FOR REVIEW | MMA | CBO | DLO |

ROSETTI MARINO

CROSSWIND

DWG TYTLE:

# 1"-IA-223-01SS-N

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK

SCALE N.A.

DRAWN SPS | CHECKED CBO | APPROVED CGI | DATE 29/09/25

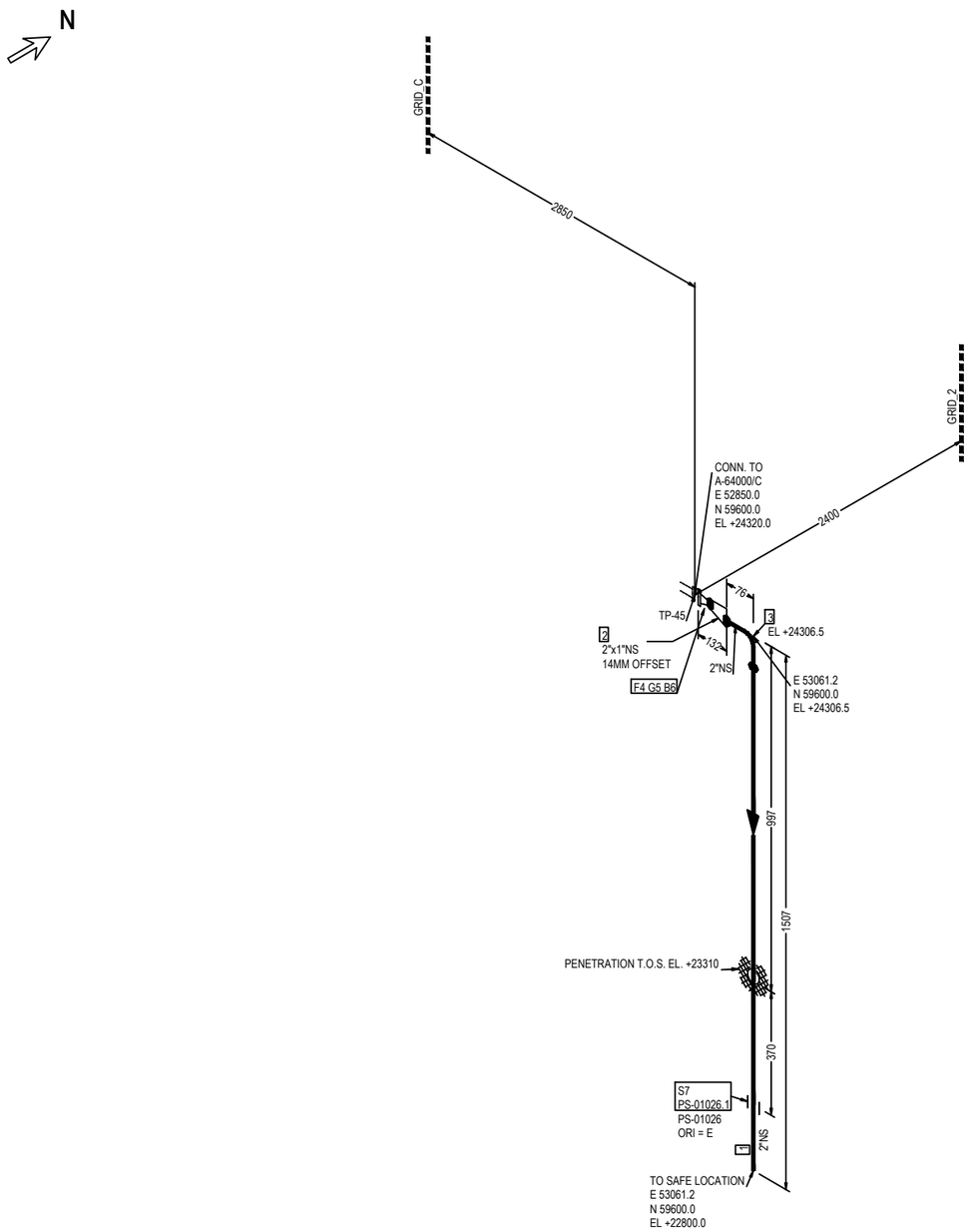
SIZE: A3

DRAWING NO. 123A90-DDL-PP-DI-71000_119

SHEET 1/1

REV. 02

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FABRICATION MATERIALS

| PT NO | COMPONENT DESCRIPTION | N.S. | ITEM CODE | Q.TY | WEIGHT |
|---|---|---|---|---|---|
| 1 | Pipe ASME B36.10M PE 5,54 SML ASTM/ASME A/SA333 Gr.6 | 2 | PIPECS02960200 | 1431MM | 10.73 |
| 2 | Reducer Eccentric ASME B16.9 BW 5,54x4,55 WRS ASTM/ASME A/SA420 Gr.WPL6 | 2 x 1 | REE0CS15650201 | 1 | 0.61 |
| 3 | 90 Deg Elbow Long Radius ASME B16.9 BW 5,54 WRS ASTM/ASME A/SA420 Gr.WPL6 | 2 | E90RCS01330200 | 1 | 0.93 |
| 4 | Flange WN ASME B16.5 150LB RF 4,55 FRG ASTM/ASME A/SA350 Gr.LF2 | 1 | FLW0CS16540100 | 1 | 1.40 |
| | | | TOTAL FABRICATION WEIGHT | | 13.67 |

ERECTION MATERIALS

| PT NO | COMPONENT DESCRIPTION | N.S. | ITEM CODE | Q.TY | WEIGHT |
|---|---|---|---|---|---|
| 5 | Gasket Spiral Wound Thk. 3.2 mm ASME B16.20 150LB RF GSK AISI 316 + GRAPHITE c/w INNER RING | 1 | GSW0GK11100100 | 1 | 0.06 |
| 6 | 65 Stud Bolt + 2 Heavy Nuts ASME B1.1 ASTM A193 Gr.B7 - A194 Gr.2H Hot dip galvanized | 1/2 | SB20BO01080200 | 4 | 0.00 |
| | SUPPORTS | | | | |
| 7 | /PS-01026.1 | 2 | | 1 | 0.33 |
| | | | TOTAL ERECTION WEIGHT | | 0.39 |
| | | | TOTAL WEIGHT | | 14.06 |

| REFERENCE DOCUMENTS | |
|---|---|
| 123A90-DDL-PP-RE-70001 | STRESS ANALYSIS REPORT |
| 123A90-DDL-PR-PID-80027 | P&ID |
| 123A90-DDL-MAT-SP-60003 | INSULATION SPECIFICATION |
| 123A90-DDL-MAT-SP-60006 | COATING & PAINTING SPEC. |
| 123A90-DDL-PP-00-72000 | PIPING SUPPORT BOOK |
| 123A90-DDL-PP-SP-70029 | PIPING MATERIAL CLASS |

SYMBOLS LEGEND:
BUTT WELD · THREADED · HEAT TRACING · SOCKET · PIPE SUPPORT · INSULATED

| NDT EXAMINATION | | | |
|---|---|---|---|
| NDT TYPE | % | NDT TYPE | % |
| RT | 10 | VT | 100 |
| INSPECTION CATEGORY | 2 | MT/PT | 10 |
| TESTING | | | |
| TEST FLUID | | TEST PRESS.(barg) | |
| N/A | | N/A | |

| PROCESS LINE DATA | | | |
|---|---|---|---|
| DESIGN TEMP. (°C) | | DESIGN PRESS.(barg) | |
| -46 | 100 | | 3.5 |

| INSULATION & PAINTING | | |
|---|---|---|
| INS. TYPE | INS. THK. | INS. SURF. (m²) |
| N | | |
| PAINT SYS. | BASE RAL | PAINT. SURF. (m²) |
| 1 | RAL 9002 | 0.31 |
| HEAT TRACING | | |
| - | | |

| LINE DATA | | |
|---|---|---|
| STRESS SYS. | PED CAT. | PWHT |
| - | Art. 4, par. 3 | No |

| Revision Number | Date | Description | Prepared by | Checked by | Approved by |
|---|---|---|---|---|---|
| 02 | 29/09/25 | AS-BUILT (ASB) | SPS | CBO | CGI |
| 01 | 26/07/24 | ACCEPTED FOR CONSTRUCTION | MMA | CBO | DLO |
| 00 | 07/06/24 | ISSUE FOR REVIEW | MMA | CBO | DLO |

ROSETTI MARINO

# CROSSWIND

DWG TYTLE:

## 2"-AV-224-01CS-N

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK

SCALE N.A.

DRAWN SPS | CHECKED CBO | APPROVED CGI | DATE 29/09/25

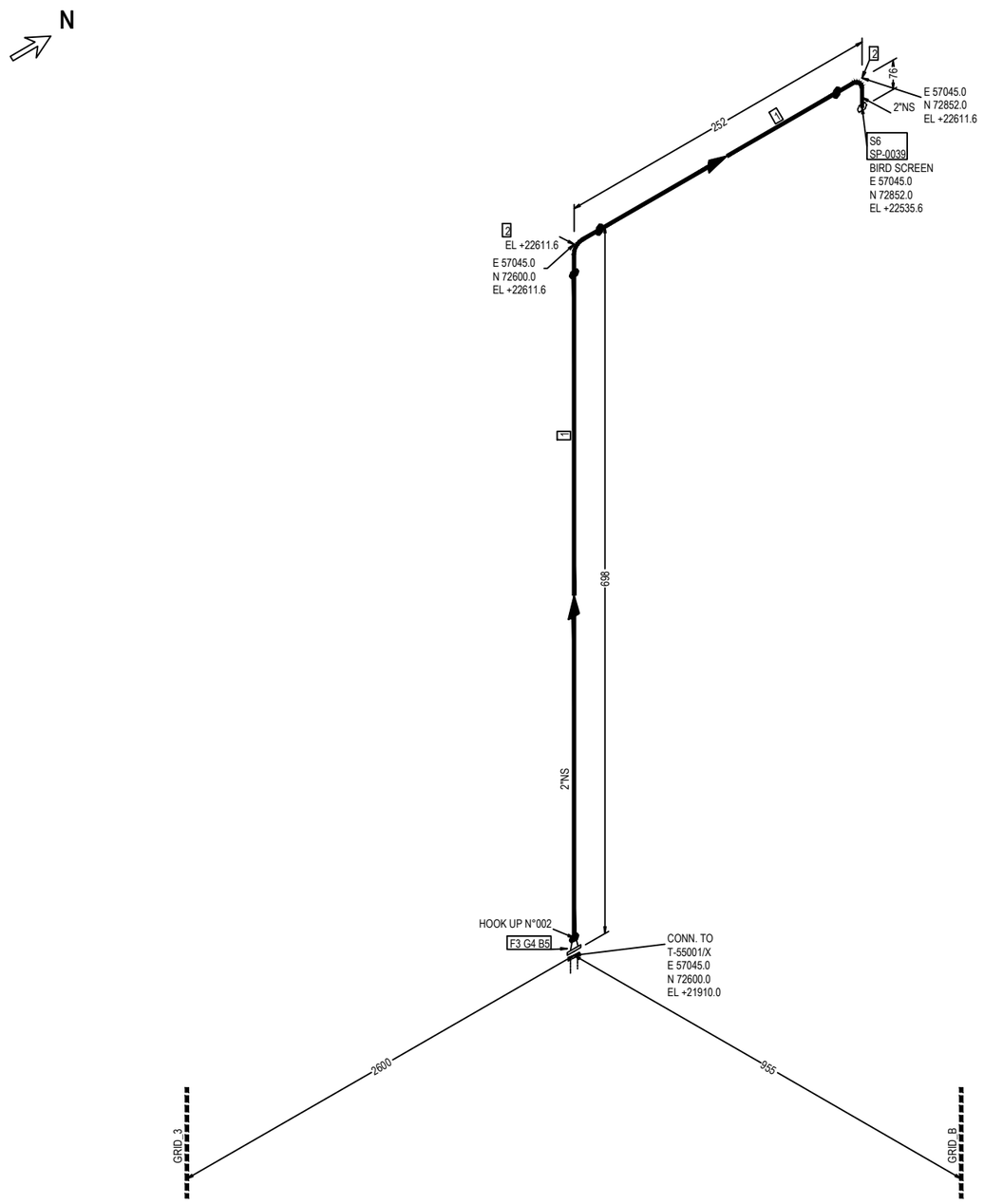
SIZE: A3

DRAWING NO. 123A90-DDL-PP-DI-71000_120

SHEET 1/1

REV. 02

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FABRICATION MATERIALS

| PT NO | COMPONENT DESCRIPTION | N.S. | ITEM CODE | Q.TY | WEIGHT |
|---|---|---|---|---|---|
| 1 | Pipe ASME B36.10M PE 5,54 SML ASTM/ASME A/SA333 Gr.6 | 2 | PIPECS02960200 | 658MM | 2.81 |
| 2 | 90 Deg Elbow Long Radius ASME B16.9 BW 5,54 WRS ASTM/ASME A/SA420 Gr.WPL6 | 2 | E90RCS01330200 | 2 | 1.86 |
| 3 | Flange WN ASME B16.5 150LB RF 5,54 FRG ASTM/ASME A/SA350 Gr.LF2 | 2 | FLW0CS02210200 | 1 | 2.70 |
| | | | TOTAL FABRICATION WEIGHT | | 7.37 |

ERECTION MATERIALS

| PT NO | COMPONENT DESCRIPTION | N.S. | ITEM CODE | Q.TY | WEIGHT |
|---|---|---|---|---|---|
| 4 | Gasket Spiral Wound Thk. 3.2 mm ASME B16.20 150LB RF GSK AISI 316 + GRAPHITE c/w INNER RING | 2 | GSW0GK11130200 | 1 | 0.10 |
| 5 | 85 Stud Bolt + 2 Heavy Nuts ASME B1.1 ASTM A193 Gr.B7 - A194 Gr.2H Hot dip galvanized | 5/8 | SB20BO00660300 | 4 | 0.00 |
| | SUPPORTS | | | | |
| 6 | Bird Screen | 2 | | 1 | --- |
| | | | TOTAL ERECTION WEIGHT | | 0.10 |
| | | | TOTAL WEIGHT | | 7.47 |

| REFERENCE DOCUMENTS | |
|---|---|
| 123A90-DDL-PP-RE-70001 | STRESS ANALYSIS REPORT |
| 123A90-DDL-PR-PID-80026 | P&ID |
| 123A90-DDL-MAT-SP-60003 | INSULATION SPECIFICATION |
| 123A90-DDL-MAT-SP-60006 | COATING & PAINTING SPEC. |
| 123A90-DDL-PP-00-72000 | PIPING SUPPORT BOOK |
| 123A90-DDL-PP-SP-70029 | PIPING MATERIAL CLASS |

SYMBOLS LEGEND:
BUTT WELD · THREADED · HEAT TRACING · SOCKET · PIPE SUPPORT · INSULATED

| NDT EXAMINATION | | | |
|---|---|---|---|
| NDT TYPE | % | NDT TYPE | % |
| RT | 10 | VT | 100 |
| INSPECTION CATEGORY | 2 | MT/PT | 10 |
| TESTING | | | |
| TEST FLUID | | TEST PRESS. (barg) | |
| N/A | | N/A | |
| PROCESS LINE DATA | | | |
| DESIGN TEMP. (°C) | | DESIGN PRESS. (barg) | |
| -46 | 100 | | 3.5 |

| INSULATION & PAINTING | | |
|---|---|---|
| INS. TYPE | INS. THK. | INS. SURF. (m²) |
| N | | |
| PAINT SYS. | BASE RAL | PAINT. SURF. (m²) |
| 1 | RAL 9002 | 0.18 |
| HEAT TRACING | | |
| - | | |
| LINE DATA | | |
| STRESS SYS. | PED CAT. | PWHT |
| - | Art. 4, par. 3 | No |

| Revision Number | Date | Description | Prepared by | Checked by | Approved by |
|---|---|---|---|---|---|
| 02 | 29/09/25 | AS-BUILT (ASB) | SPS | CBO | CGI |
| 01 | 26/07/24 | ACCEPTED FOR CONSTRUCTION | MMA | CBO | DLO |
| 00 | 07/06/24 | ISSUE FOR REVIEW | MMA | CBO | DLO |

ROSETTI MARINO

# CROSSWIND

DWG TYTLE:

## 2"-AV-256-01CS-N

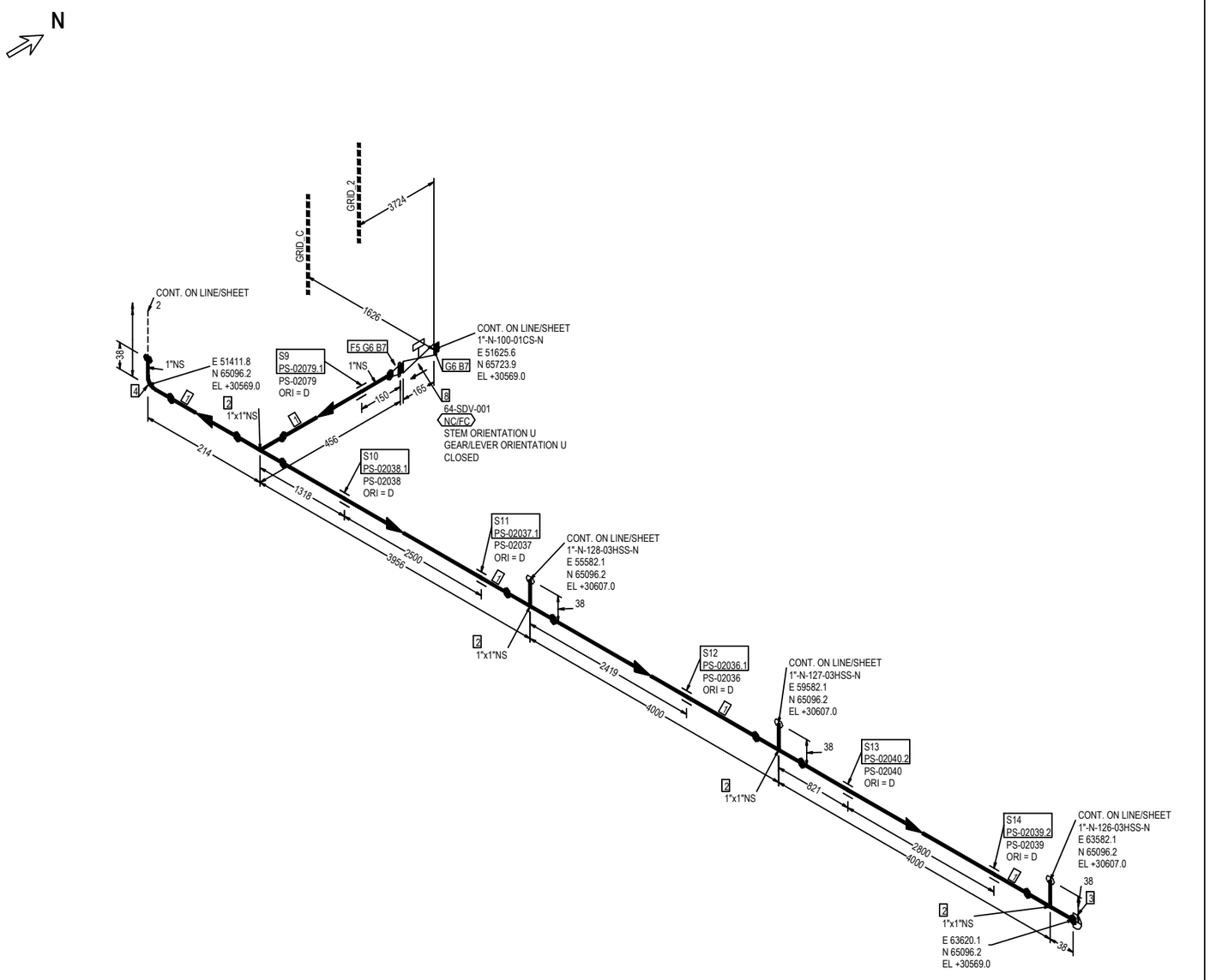
CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK

SCALE N.A.

DRAWN SPS | CHECKED CBO | APPROVED CGI | DATE 29/09/25

SIZE: A3 | DRAWING NO. 123A90-DDL-PP-DI-71000_121 | SHEET 1/1 | REV. 02

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FABRICATION MATERIALS

| PT NO | COMPONENT DESCRIPTION | N.S. | ITEM CODE | Q.TY | WEIGHT |
|---|---|---|---|---|---|
| 1 | Pipe ASME B36.19M PE 3,38 SML ASTM A312 Gr.TP316/316L | 1 | PIPESS00480100 | 12222MM | 30.55 |
| 2 | Tee ASME B16.9 BW 3,38 WRS ASTM A403 Gr.WP316/316L | 1 x 1 | TEE0SS00550100 | 4 | 1.36 |
| 3 | Cap ASME B16.9 BW 3,38 WRS ASTM A403 Gr.WP316/316L | 1 | CAP0SS01030100 | 1 | 0.10 |
| 4 | 90 Deg Elbow Long Radius ASME B16.9 BW 3,38 WRS ASTM A403 Gr.WP316/316L | 1 | E90RSS00670100 | 1 | 0.14 |
| 5 | Flange WN ASME B16.5 300LB RF 3,38 FRG ASTM A182 Gr.F316/316L | 1 | FLW0SS03270100 | 1 | 1.83 |
| | | | | TOTAL FABRICATION WEIGHT | 33.98 |

ERECTION MATERIALS

| PT NO | COMPONENT DESCRIPTION | N.S. | ITEM CODE | Q.TY | WEIGHT |
|---|---|---|---|---|---|
| 6 | Gasket Spiral Wound Thk. 3.2 mm ASME B16.20 300LB RF GSK AISI 316 + GRAPHITE c/w INNER RING | 1 | GSW0GK11210100 | 2 | 0.14 |
| 7 | 80 Stud Bolt + 2 Heavy Nuts ASME B1.1 ASTM A193 Gr.B7 - A194 Gr.2H Hot dip galvanized | 5/8 | SB20BO01870300 | 8 | 1.84 |
| | INSTRUMENTS | | | | |
| 8 | ON/OFF Ball Actuator Valve - 300#RF Flanged 64-SDV-001 | 1 | | 1 | 41.00 |
| | SUPPORTS | | | | |
| 9 | /PS-02079.1 | 1 | | 1 | 0.19 |
| 10 | /PS-02038.1 | 1 | | 1 | 0.19 |
| 11 | /PS-02037.1 | 1 | | 1 | 0.19 |
| 12 | /PS-02036.1 | 1 | | 1 | 0.19 |
| 13 | /PS-02040.2 | 1 | | 1 | 0.19 |
| 14 | /PS-02039.2 | 1 | | 1 | 0.19 |
| | | | | TOTAL ERECTION WEIGHT | 44.12 |
| | | | | TOTAL WEIGHT | 78.10 |

| REFERENCE DOCUMENTS | |
|---|---|
| 123A90-DDL-PP-RE-70001 | STRESS ANALYSIS REPORT |
| 123A90-DDL-PR-PID-80027 | P&ID |
| 123A90-DDL-MAT-SP-60003 | INSULATION SPECIFICATION |
| 123A90-DDL-MAT-SP-60006 | COATING & PAINTING SPEC. |
| 123A90-DDL-PP-00-72000 | PIPING SUPPORT BOOK |
| 123A90-DDL-PP-SP-70029 | PIPING MATERIAL CLASS |

SYMBOLS LEGEND:
BUTT WELD · THREADED · HEAT TRACING
SOCKET · PIPE SUPPORT · INSULATED

| NDT EXAMINATION | | | |
|---|---|---|---|
| NDT TYPE | % | NDT TYPE | % |
| RT | 10 | VT | 100 |
| INSPECTION CATEGORY | 2 | MT/PT | 10 |
| TESTING | | | |
| TEST FLUID | | TEST PRESS. (barg) | |
| Water | | 60.00 | |
| PROCESS LINE DATA | | | |
| DESIGN TEMP. (°C) | | DESIGN PRESS. (barg) | |
| -46 | 80 | | 40 |

| INSULATION & PAINTING | | |
|---|---|---|
| INS. TYPE | INS. THK. | INS. SURF. (m²) |
| N | | |
| PAINT SYS. | BASE RAL | PAINT. SURF. (m²) |
| 6A | RAL 9002 | 3.08 |
| HEAT TRACING | | |
| - | | |
| LINE DATA | | |
| STRESS SYS. | PED CAT. | PWHT |
| - | Art. 4, par. 3 | No |

| Revision Number | Date | Description | Prepared by | Checked by | Approved by |
|---|---|---|---|---|---|
| 02 | 29/09/25 | AS-BUILT (ASB) | SPS | CBO | CGI |
| 01 | 26/07/24 | ACCEPTED FOR CONSTRUCTION | MMA | CBO | DLO |
| 00 | 07/06/24 | ISSUE FOR REVIEW | MMA | CBO | DLO |

ROSETTI MARINO

# CROSSWIND

DWG TYTLE:

## 1"-N-257-03HSS-N

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK

SCALE N.A.

DRAWN SPS | CHECKED CBO | APPROVED CGI | DATE 29/09/25

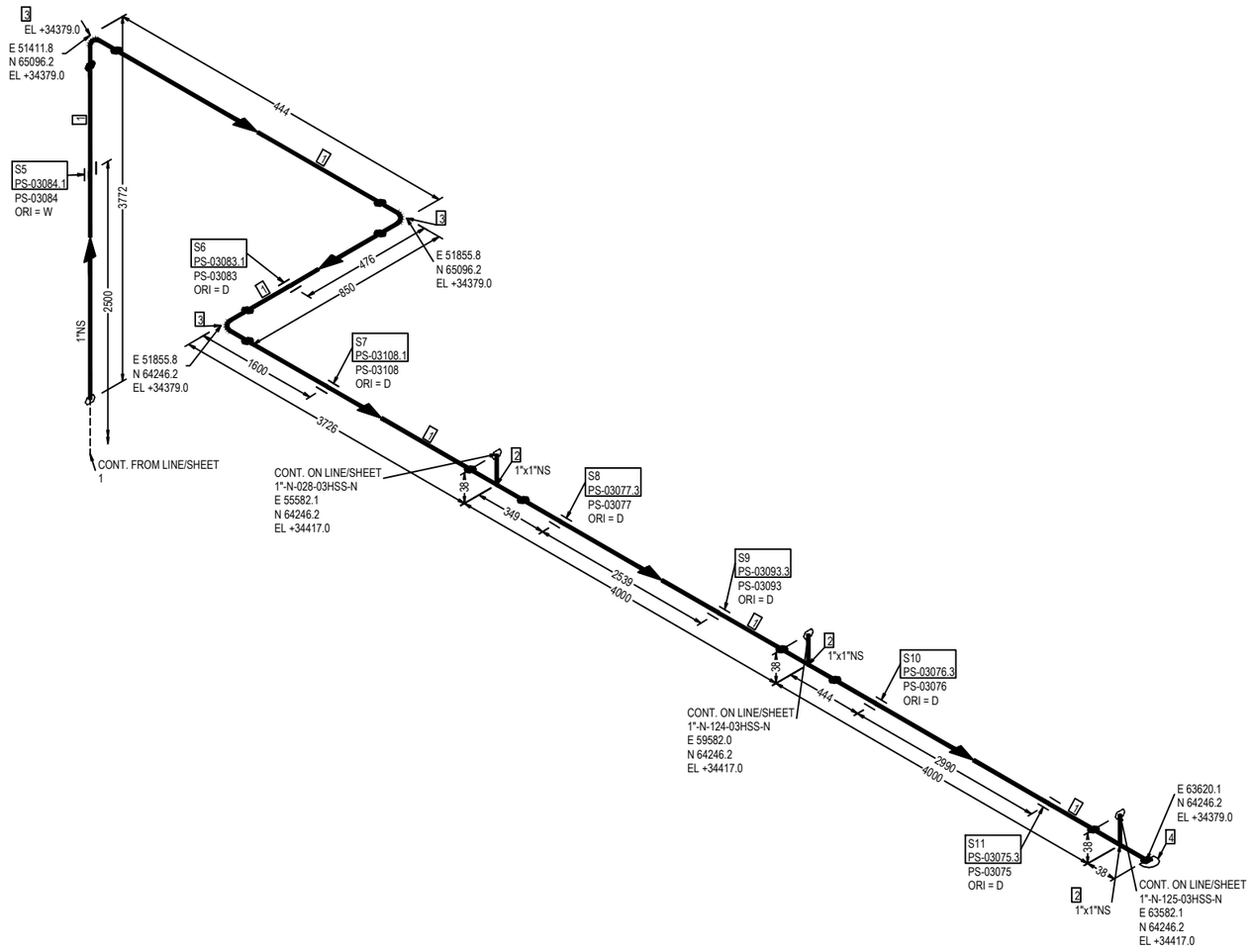
SIZE: A3

DRAWING NO. 123A90-DDL-PP-DI-71000_122

SHEET 1/2

REV. 02

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FABRICATION MATERIALS

| PT NO | COMPONENT DESCRIPTION | N.S. | ITEM CODE | Q.TY | WEIGHT |
|---|---|---|---|---|---|
| 1 | Pipe ASME B36.19M PE 3,38 SML ASTM A312 Gr.TP316/316L | 1 | PIPESS00480100 | 16374MM | 40.93 |
| 2 | Tee ASME B16.9 BW 3,38 WRS ASTM A403 Gr.WP316/316L | 1 x 1 | TEE0SS00550100 | 3 | 1.02 |
| 3 | 90 Deg Elbow Long Radius ASME B16.9 BW 3,38 WRS ASTM A403 Gr.WP316/316L | 1 | E90RSS00670100 | 3 | 0.42 |
| 4 | Cap ASME B16.9 BW 3,38 WRS ASTM A403 Gr.WP316/316L | 1 | CAP0SS01030100 | 1 | 0.10 |
| | | | TOTAL FABRICATION WEIGHT | | 42.47 |

ERECTION MATERIALS

| PT NO | COMPONENT DESCRIPTION | N.S. | ITEM CODE | Q.TY | WEIGHT |
|---|---|---|---|---|---|
| | SUPPORTS | | | | |
| 5 | /PS-03084.1 | 1 | | 1 | 0.19 |
| 6 | /PS-03083.1 | 1 | | 1 | 0.19 |
| 7 | /PS-03108.1 | 1 | | 1 | 0.19 |
| 8 | /PS-03077.3 | 1 | | 1 | 0.19 |
| 9 | /PS-03093.3 | 1 | | 1 | 0.19 |
| 10 | /PS-03076.3 | 1 | | 1 | 0.19 |
| 11 | /PS-03075.3 | 1 | | 1 | 0.19 |
| | | | TOTAL ERECTION WEIGHT | | 1.33 |
| | | | TOTAL WEIGHT | | 43.80 |

| REFERENCE DOCUMENTS | |
|---|---|
| 123A90-DDL-PP-RE-70001 | STRESS ANALYSIS REPORT |
| 123A90-DDL-PR-PID-80027 | P&ID |
| 123A90-DDL-MAT-SP-60003 | INSULATION SPECIFICATION |
| 123A90-DDL-MAT-SP-60006 | COATING & PAINTING SPEC. |
| 123A90-DDL-PP-00-72000 | PIPING SUPPORT BOOK |
| 123A90-DDL-PP-SP-70029 | PIPING MATERIAL CLASS |

SYMBOLS LEGEND:
BUTT WELD · THREADED · HEAT TRACING · SOCKET · PIPE SUPPORT · INSULATED

| NDT EXAMINATION | | | |
|---|---|---|---|
| NDT TYPE | % | NDT TYPE | % |
| RT | 10 | VT | 100 |
| INSPECTION CATEGORY | 2 | MT/PT | 10 |

| TESTING | |
|---|---|
| TEST FLUID | TEST PRESS. (barg) |
| Water | 60.00 |

| PROCESS LINE DATA | | | |
|---|---|---|---|
| DESIGN TEMP. (°C) | | DESIGN PRESS. (barg) | |
| -46 | 80 | | 40 |

| INSULATION & PAINTING | | |
|---|---|---|
| INS. TYPE | INS. THK. | INS. SURF. (m²) |
| N | | |
| PAINT SYS. | BASE RAL | PAINT. SURF. (m²) |
| 6A | RAL 9002 | 3.08 |

| HEAT TRACING |
|---|
| - |

| LINE DATA | | |
|---|---|---|
| STRESS SYS. | PED CAT. | PWHT |
| - | Art. 4, par. 3 | No |

| Revision Number | Date | Description | Prepared by | Checked by | Approved by |
|---|---|---|---|---|---|
| 02 | 29/09/25 | AS-BUILT (ASB) | SPS | CBO | CGI |
| 01 | 26/07/24 | ACCEPTED FOR CONSTRUCTION | MMA | CBO | DLO |
| 00 | 07/06/24 | ISSUE FOR REVIEW | MMA | CBO | DLO |

ROSETTI MARINO

# CROSSWIND

DWG TYTLE:

## 1"-N-257-03HSS-N

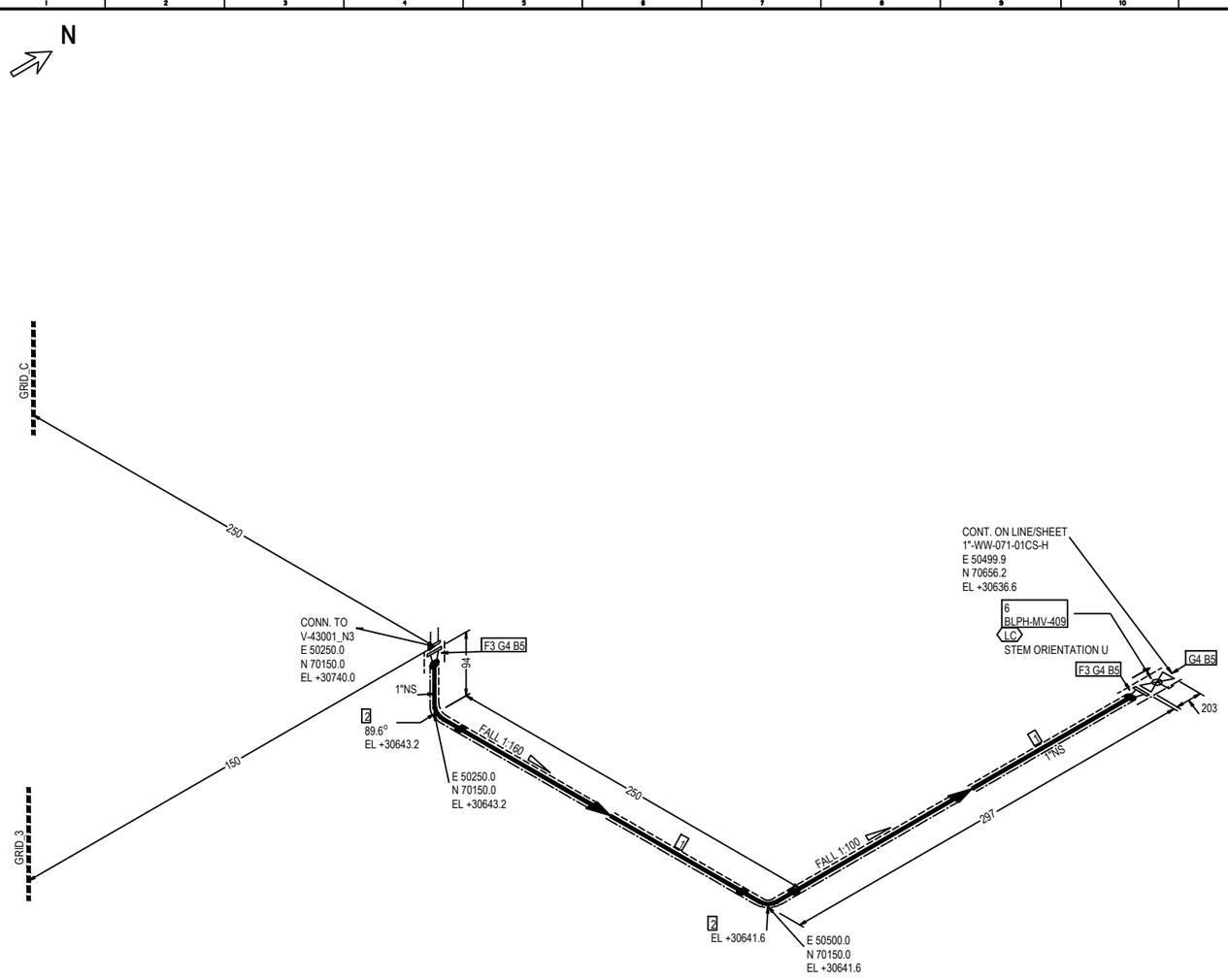
CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK

SCALE N.A.

DRAWN SPS | CHECKED CBO | APPROVED CGI | DATE 29/09/25

SIZE: A3 | DRAWING NO. 123A90-DDL-PP-DI-71000_122 | SHEET 2/2 | REV. 02

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FABRICATION MATERIALS

| PT NO | COMPONENT DESCRIPTION | N.S. | ITEM CODE | Q.TY | WEIGHT |
|---|---|---|---|---|---|
| 1 | Pipe ASME B36.10M PE 4,55 SML ASTM/ASME A/SA333 Gr.6 | 1 | PIPECS08300100 | 377MM | 1.21 |
| 2 | 90 Deg Elbow Long Radius ASME B16.9 BW 4,55 WRS ASTM/ASME A/SA420 Gr.WPL6 | 1 | E90RCS01780100 | 2 | 0.36 |
| 3 | Flange WN ASME B16.5 150LB RF 4,55 FRG ASTM/ASME A/SA350 Gr.LF2 | 1 | FLW0CS16540100 | 2 | 2.80 |
| | | | TOTAL FABRICATION WEIGHT | | 4.37 |

ERECTION MATERIALS

| PT NO | COMPONENT DESCRIPTION | N.S. | ITEM CODE | Q.TY | WEIGHT |
|---|---|---|---|---|---|
| 4 | Gasket Spiral Wound Thk. 3.2 mm ASME B16.20 150LB RF GSK AISI 316 + GRAPHITE c/w INNER RING | 1 | GSW0GK11100100 | 3 | 0.18 |
| 5 | 65 Stud Bolt + 2 Heavy Nuts ASME B1.1 ASTM A193 Gr.B7 - A194 Gr.2H Hot dip galvanized | 1/2 | SB20BO01080200 | 12 | 1.44 |
| 6 | Block & Bleed Valve API 6D FLG 150LB RF BS01B01RFS | 1 | VLBLNN01280100 | 1 | 10.80 |
| | | | TOTAL ERECTION WEIGHT | | 12.42 |
| | | | TOTAL WEIGHT | | 16.79 |

| REFERENCE DOCUMENTS | |
|---|---|
| 123A90-DDL-PP-RE-70001 | STRESS ANALYSIS REPORT |
| 123A90-DDL-PR-PID-80029 | P&ID |
| 123A90-DDL-MAT-SP-60003 | INSULATION SPECIFICATION |
| 123A90-DDL-MAT-SP-60006 | COATING & PAINTING SPEC. |
| 123A90-DDL-PP-00-72000 | PIPING SUPPORT BOOK |
| 123A90-DDL-PP-SP-70029 | PIPING MATERIAL CLASS |

SYMBOLS LEGEND:
BUTT WELD · THREADED · HEAT TRACING · SOCKET · PIPE SUPPORT · INSULATED

| NDT EXAMINATION | | | |
|---|---|---|---|
| NDT TYPE | % | NDT TYPE | % |
| RT | 10 | VT | 100 |
| INSPECTION CATEGORY | 2 | MT/PT | 10 |
| TESTING | | | |
| TEST FLUID | | TEST PRESS. (barg) | |
| Water | | 5.25 | |
| PROCESS LINE DATA | | | |
| DESIGN TEMP. (°C) | | DESIGN PRESS. (barg) | |
| -46 | 100 | | 3.5 |

| INSULATION & PAINTING | | |
|---|---|---|
| INS. TYPE | INS. THK. | INS. SURF. (m²) |
| H | 20mm | 0.21 |
| PAINT SYS. | BASE RAL | PAINT. SURF. (m²) |
| 9 | N/A | 0.09 |
| HEAT TRACING | | |
| YES | | |
| LINE DATA | | |
| STRESS SYS. | PED CAT. | PWHT |
| - | Art. 4, par. 3 | No |

| Revision Number | Date | Description | Prepared by | Checked by | Approved by |
|---|---|---|---|---|---|
| 02 | 29/09/25 | AS-BUILT (ASB) | SPS | CBO | CGI |
| 01 | 26/07/24 | ACCEPTED FOR CONSTRUCTION | MMA | CBO | DLO |
| 00 | 07/06/24 | ISSUE FOR REVIEW | MMA | CBO | DLO |

ROSETTI MARINO

# CROSSWIND

DWG TYTLE:

## 1"-WW-259-01CS-E

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK

SCALE N.A.

DRAWN SPS | CHECKED CBO | APPROVED CGI | DATE 29/09/25

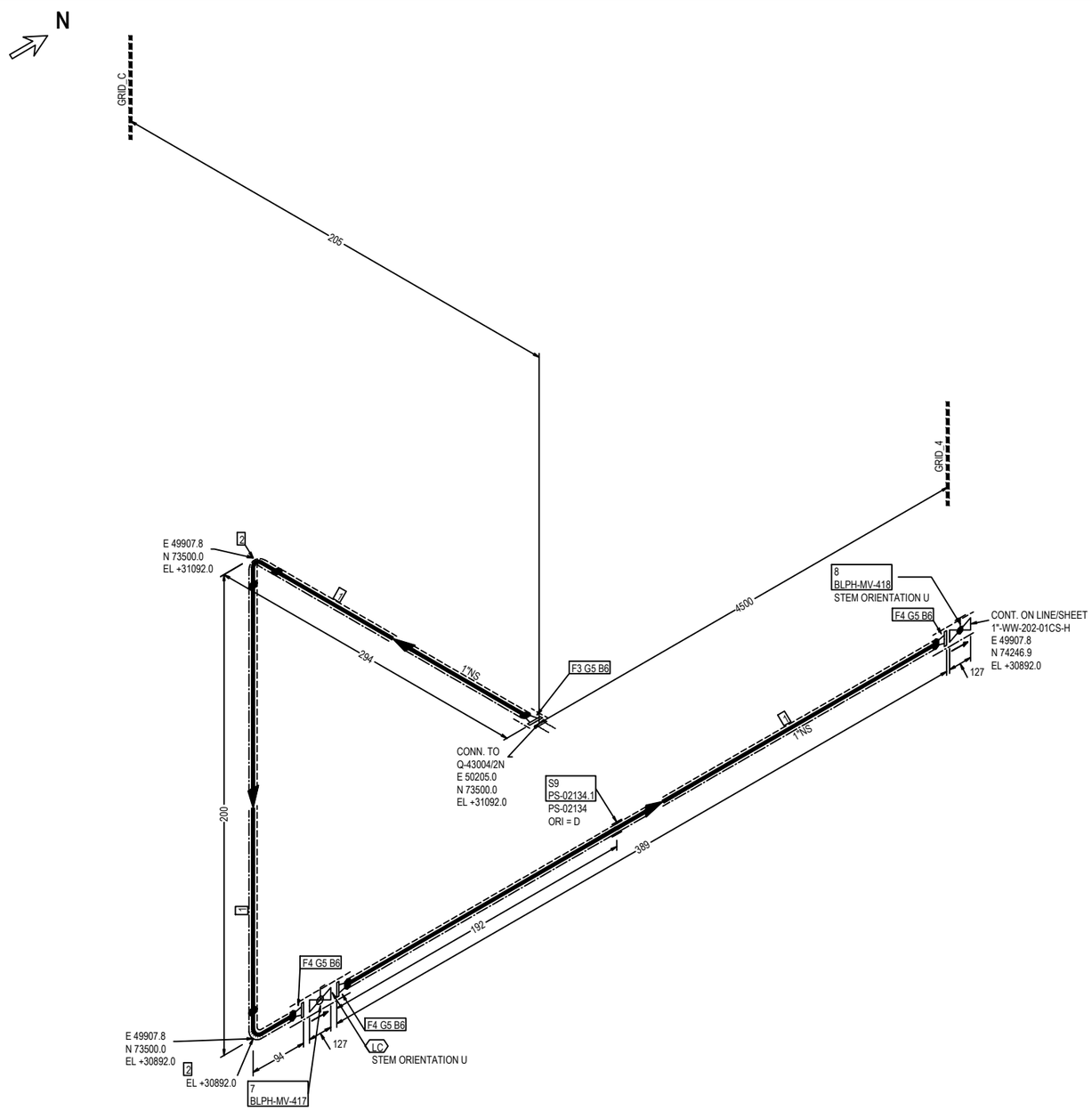
SIZE: A3

DRAWING NO. 123A90-DDL-PP-DI-71000_123

SHEET 1/1

REV. 02

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FABRICATION MATERIALS

| PT NO | COMPONENT DESCRIPTION | N.S. | ITEM CODE | Q.TY | WEIGHT |
|---|---|---|---|---|---|
| 1 | Pipe ASME B36.10M PE 4,55 SML ASTM/ASME A/SA333 Gr.6 | 1 | PIPECS08300100 | 601MM | 1.92 |
| 2 | 90 Deg Elbow Long Radius ASME B16.9 BW 4,55 WRS ASTM/ASME A/SA420 Gr.WPL6 | 1 | E90RCS01780100 | 2 | 0.36 |
| 3 | Flange WN For Jackscrews ASME B16.5 150LB RF 4,55 FRG ASTM/ASME A/SA350 Gr.LF2 | 1 | FLWDCS02740100 | 1 | 1.40 |
| 4 | Flange WN ASME B16.5 150LB RF 4,55 FRG ASTM/ASME A/SA350 Gr.LF2 | 1 | FLW0CS16540100 | 3 | 4.20 |
| | | | TOTAL FABRICATION WEIGHT | | 7.88 |

ERECTION MATERIALS

| PT NO | COMPONENT DESCRIPTION | N.S. | ITEM CODE | Q.TY | WEIGHT |
|---|---|---|---|---|---|
| 5 | Gasket Spiral Wound Thk. 3.2 mm ASME B16.20 150LB RF GSK AISI 316 + GRAPHITE c/w INNER RING | 1 | GSW0GK11100100 | 4 | 0.24 |
| 6 | 65 Stud Bolt + 2 Heavy Nuts ASME B1.1 ASTM A193 Gr.B7 - A194 Gr.2H Hot dip galvanized | 1/2 | SB20BO01080200 | 16 | 1.92 |
| 7 | Ball Valve Split Body FB API 6D FLG 150LB RF BS01B01RF | 1 | VBC0NN24710100 | 1 | 8.00 |
| 8 | Globe Valve EN ISO 15761 FLG 150LB RF HS01B02RF | 1 | VDA0NN16000100 | 1 | 9.00 |
| | SUPPORTS | | | | |
| 9 | /PS-02134.1 | 1 | | 1 | 2.31 |
| | | | TOTAL ERECTION WEIGHT | | 21.47 |
| | | | TOTAL WEIGHT | | 29.35 |

| REFERENCE DOCUMENTS | |
|---|---|
| 123A90-DDL-PP-RE-70001 | STRESS ANALYSIS REPORT |
| 123A90-DDL-PR-PID-80029 | P&ID |
| 123A90-DDL-MAT-SP-60003 | INSULATION SPECIFICATION |
| 123A90-DDL-MAT-SP-60006 | COATING & PAINTING SPEC. |
| 123A90-DDL-PP-00-72000 | PIPING SUPPORT BOOK |
| 123A90-DDL-PP-SP-70029 | PIPING MATERIAL CLASS |

SYMBOLS LEGEND:
BUTT WELD · THREADED · HEAT TRACING · SOCKET · PIPE SUPPORT · INSULATED

| NDT EXAMINATION | | | |
|---|---|---|---|
| NDT TYPE | % | NDT TYPE | % |
| RT | 10 | VT | 100 |
| INSPECTION CATEGORY | 2 | MT/PT | 10 |
| TESTING | | | |
| TEST FLUID | | TEST PRESS.(barg) | |
| Water | | 5.25 | |
| PROCESS LINE DATA | | | |
| DESIGN TEMP. (°C) | | DESIGN PRESS.(barg) | |
| -46 | 100 | | 3.5 |

| INSULATION & PAINTING | | |
|---|---|---|
| INS. TYPE | INS. THK. | INS. SURF. (m²) |
| H | 20mm | 0.32 |
| PAINT SYS. | BASE RAL | PAINT. SURF. (m²) |
| 9 | N/A | 0.13 |
| HEAT TRACING | | |
| YES | | |
| LINE DATA | | |
| STRESS SYS. | PED CAT. | PWHT |
| - | Art. 4, par. 3 | No |

| Revision Number | Date | Description | Prepared by | Checked by | Approved by |
|---|---|---|---|---|---|
| 02 | 29/09/25 | AS-BUILT (ASB) | SPS | CBO | CGI |
| 01 | 26/07/24 | ACCEPTED FOR CONSTRUCTION | MMA | CBO | DLO |
| 00 | 07/06/24 | ISSUE FOR REVIEW | MMA | CBO | DLO |

ROSETTI MARINO

# CROSSWIND

DWG TYTLE:

## 1"-WW-260-01CS-E

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK

SCALE N.A.

DRAWN SPS | CHECKED CBO | APPROVED CGI | DATE 29/09/25

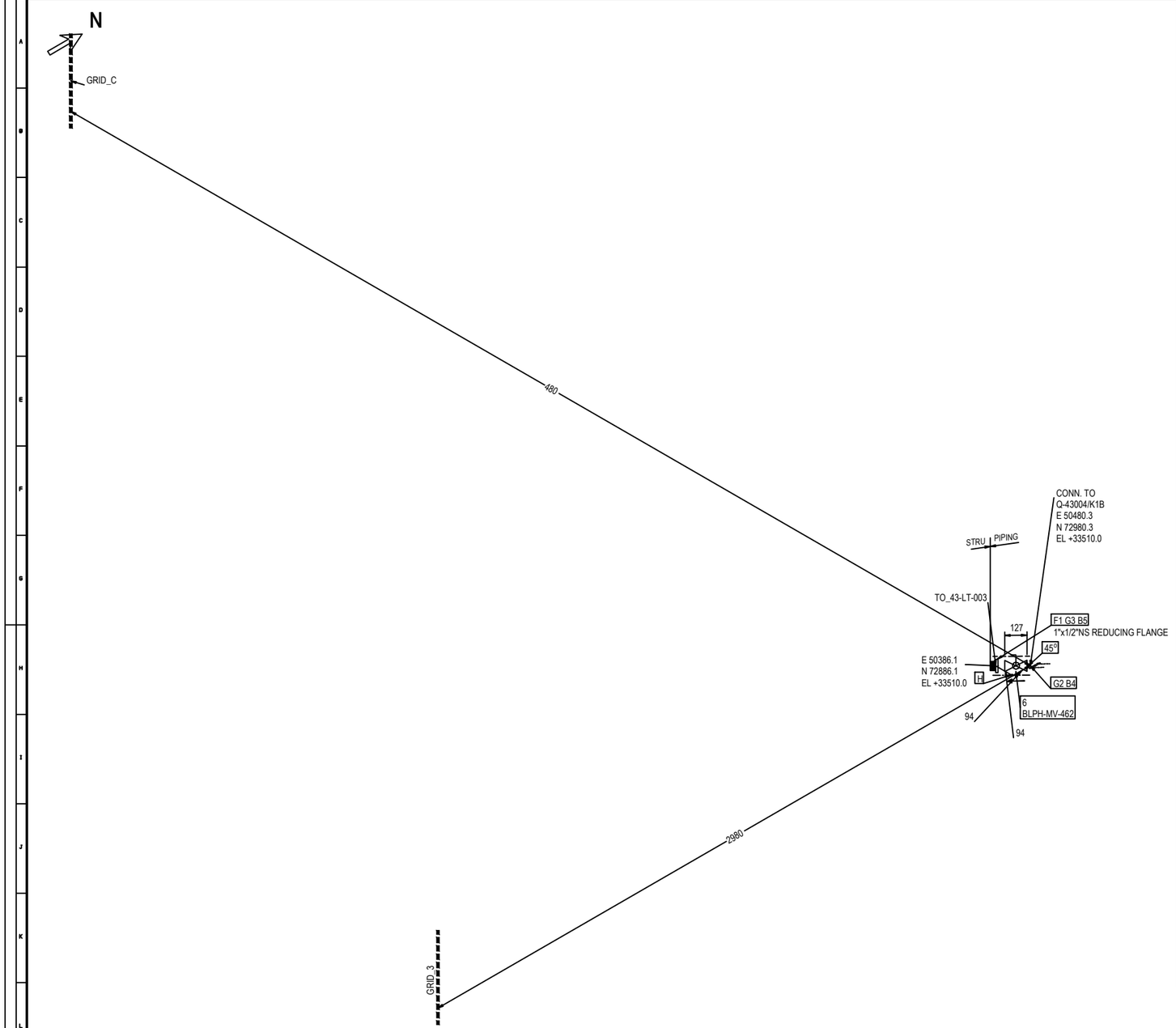
SIZE: A3

DRAWING NO. 123A90-DDL-PP-DI-71000_124

SHEET 1/1

REV. 02

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ERECTION MATERIALS

| PT NO | COMPONENT DESCRIPTION | N.S. | ITEM CODE | Q.TY | WEIGHT |
|---|---|---|---|---|---|
| 1 | Flange Reducing ASME B16.5 THRD-F NPT 150LB RF FRG ASTM A182 Gr.F316/316L | 1 x 1/2 | FLR0SS0034010H | 1 | 0.91 |
| 2 | Insulation Kit Ends as per ASME B16.5 150LB RF | 1 | SPIKNN01220100 | 1 | 0.06 |
| 3 | Gasket Spiral Wound Thk. 3.2 mm ASME B16.20 150LB RF GSK AISI 316 + GRAPHITE c/w INNER RING | 1 | GSW0GK11100100 | 1 | 0.06 |
| 4 | 80 Stud Bolt + 2 Heavy Nuts ASME B1.1 ASTM A193 Gr.B7 - A194 Gr.2H Hot dip galvanized | 1/2 | SB20BO00980200 | 4 | 0.52 |
| 5 | 65 Stud Bolt + 2 Heavy Nuts ASME B1.1 ASTM A193 Gr.B7 - A194 Gr.2H Hot dip galvanized | 1/2 | SB20BO01080200 | 4 | 0.48 |
| 6 | Ball Valve Split Body FB API 6D FLG 150LB RF BS01C01RFH | 1 | VBC0NN24350100 | 1 | 5.80 |
| | | | | TOTAL ERECTION WEIGHT | 7.81 |
| | | | | TOTAL WEIGHT | 7.81 |

| REFERENCE DOCUMENTS | |
|---|---|
| 123A90-DDL-PP-RE-70001 | STRESS ANALYSIS REPORT |
| 123A90-DDL-PR-PID-80029 | P&ID |
| 123A90-DDL-MAT-SP-60003 | INSULATION SPECIFICATION |
| 123A90-DDL-MAT-SP-60006 | COATING & PAINTING SPEC. |
| 123A90-DDL-PP-00-72000 | PIPING SUPPORT BOOK |
| 123A90-DDL-PP-SP-70029 | PIPING MATERIAL CLASS |

SYMBOLS LEGEND:
BUTT WELD · THREADED · HEAT TRACING
SOCKET · PIPE SUPPORT · INSULATED

| NDT EXAMINATION | | | |
|---|---|---|---|
| NDT TYPE | % | NDT TYPE | % |
| RT | 100 | VT | 100 |
| INSPECTION CATEGORY | 1 | MT/PT | 100 |
| TESTING | | | |
| TEST FLUID | | TEST PRESS. [barg] | |
| Water | | 5.25 | |

| PROCESS LINE DATA | | | |
|---|---|---|---|
| DESIGN TEMP. [°C] | | DESIGN PRESS. [barg] | |
| -29 | 100 | | 3.50 |

| INSULATION & PAINTING | | |
|---|---|---|
| INS. TYPE | INS. THK. | INS. SURF. [m²] |
| H | 20mm | 0.04 |
| PAINT SYS. | BASE RAL | PAINT. SURF. [m²] |
| 6C | - | 0.01 |
| HEAT TRACING | | |
| YES | | |

| LINE DATA | | |
|---|---|---|
| STRESS SYS. | PED CAT. | PWHT |
| - | Art. 4, par. 3 | No |

| Revision Number | Date | Description | Prepared by | Checked by | Approved by |
|---|---|---|---|---|---|
| 02 | 29/09/25 | AS-BUILT (ASB) | SPS | CBO | CGI |
| 01 | 26/07/24 | ACCEPTED FOR CONSTRUCTION | MMA | CBO | DLO |
| 00 | 07/06/24 | ISSUE FOR REVIEW | MMA | CBO | DLO |

ROSETTI MARINO

# CROSSWIND

DWG TYTLE:

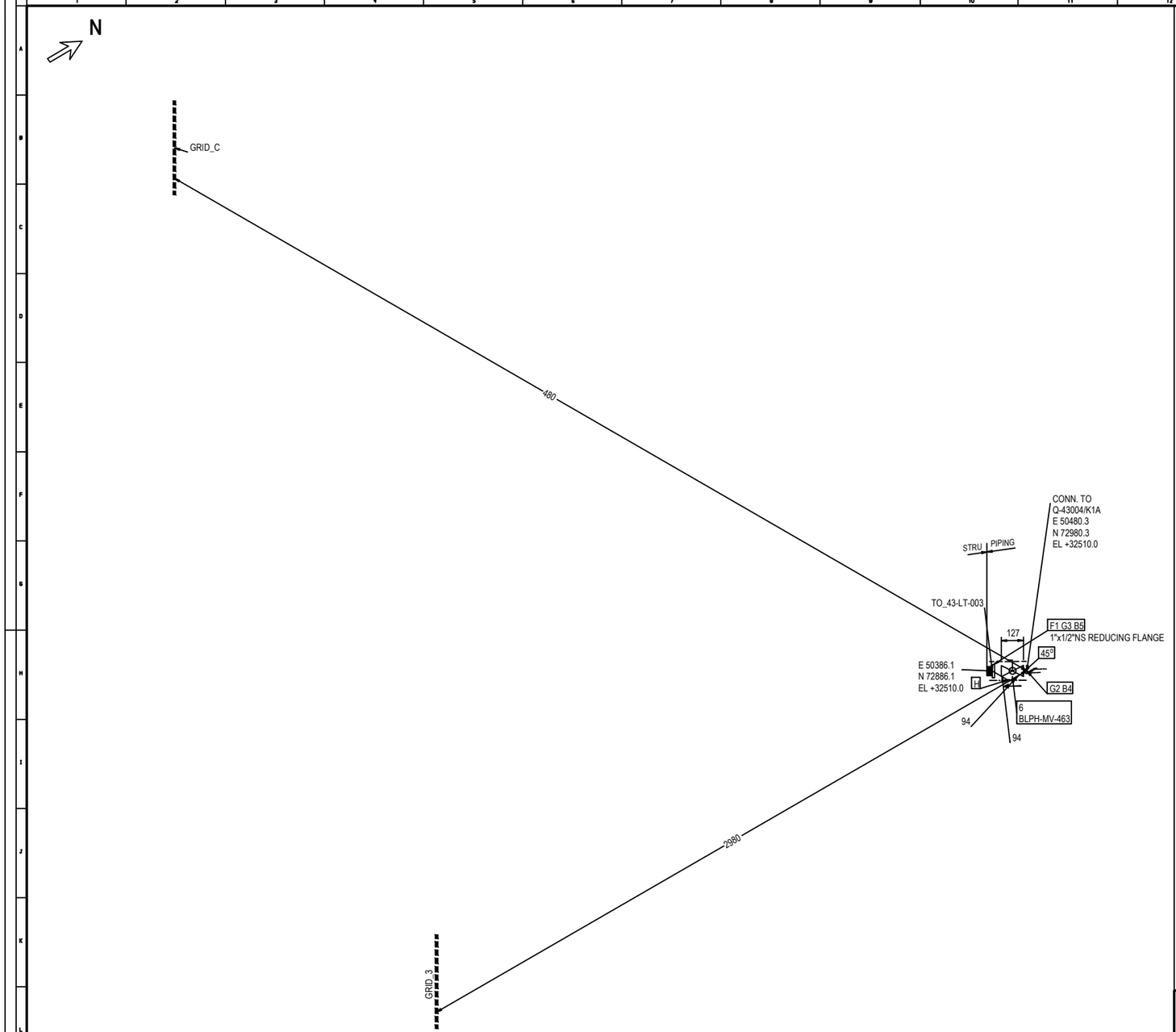
# 1"-VL-261-01HSS-E

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK | SCALE N.A.

DRAWN SPS | CHECKED CBO | APPROVED CGI | DATE 29/09/25

SIZE: A3 | DRAWING NO. 123A90-DDL-PP-DI-71000-125 | SHEET 1/2 | REV. 02

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ERECTION MATERIALS

| PT NO | COMPONENT DESCRIPTION | N.S. | ITEM CODE | Q.TY | WEIGHT |
|---|---|---|---|---|---|
| 1 | Flange Reducing ASME B16.5 THRD-F NPT 150LB RF FRG ASTM A182 Gr.F316/316L | 1 x 1/2 | FLR0SS0034010H | 1 | 0.91 |
| 2 | Insulation Kit Ends as per ASME B16.5 150LB RF | 1 | SPIKNN01220100 | 1 | 0.06 |
| 3 | Gasket Spiral Wound Thk. 3.2 mm ASME B16.20 150LB RF GSK AISI 316 + GRAPHITE c/w INNER RING | 1 | GSW0GK11100100 | 1 | 0.06 |
| 4 | 80 Stud Bolt + 2 Heavy Nuts ASME B1.1 ASTM A193 Gr.B7 - A194 Gr.2H Hot dip galvanized | 1/2 | SB20BO00980200 | 4 | 0.52 |
| 5 | 65 Stud Bolt + 2 Heavy Nuts ASME B1.1 ASTM A193 Gr.B7 - A194 Gr.2H Hot dip galvanized | 1/2 | SB20BO01080200 | 4 | 0.48 |
| 6 | Ball Valve Split Body FB API 6D FLG 150LB RF BS01C01RFH | 1 | VBC0NN24350100 | 1 | 5.80 |
| | | | | TOTAL ERECTION WEIGHT | 7.81 |
| | | | | TOTAL WEIGHT | 7.81 |

| REFERENCE DOCUMENTS | |
|---|---|
| 123A90-DDL-PP-RE-70001 | STRESS ANALYSIS REPORT |
| 123A90-DDL-PR-PID-80029 | P&ID |
| 123A90-DDL-MAT-SP-60003 | INSULATION SPECIFICATION |
| 123A90-DDL-MAT-SP-60006 | COATING & PAINTING SPEC. |
| 123A90-DDL-PP-00-72000 | PIPING SUPPORT BOOK |
| 123A90-DDL-PP-SP-70029 | PIPING MATERIAL CLASS |

SYMBOLS LEGEND:
BUTT WELD · THREADED · HEAT TRACING · SOCKET · PIPE SUPPORT · INSULATED

| NDT EXAMINATION | | | |
|---|---|---|---|
| NDT TYPE | % | NDT TYPE | % |
| RT | 100 | VT | 100 |
| INSPECTION CATEGORY | 1 | MT/PT | unset |

| TESTING | |
|---|---|
| TEST FLUID | TEST PRESS. [barg] |
| Water | 5.25 |

| PROCESS LINE DATA | | | |
|---|---|---|---|
| DESIGN TEMP. [°C] | | DESIGN PRESS. [barg] | |
| -29 | 100 | | 3.50 |

| INSULATION & PAINTING | | |
|---|---|---|
| INS. TYPE | INS. THK. | INS. SURF. [m²] |
| H | 20mm | 0.04 |
| PAINT SYS. | BASE RAL | PAINT. SURF. [m²] |
| 6C | - | 0.01 |

| HEAT TRACING |
|---|
| YES |

| LINE DATA | | |
|---|---|---|
| STRESS SYS. | PED CAT. | PWHT |
| - | Art. 4, par. 3 | No |

| Revision Number | Date | Description | Prepared by | Checked by | Approved by |
|---|---|---|---|---|---|
| 02 | 29/09/25 | AS-BUILT (ASB) | SPS | CBO | CGI |
| 01 | 26/07/24 | ACCEPTED FOR CONSTRUCTION | MMA | CBO | DLO |
| 00 | 07/06/24 | ISSUE FOR REVIEW | MMA | CBO | DLO |

ROSETTI MARINO

# CROSSWIND

DWG TYTLE:

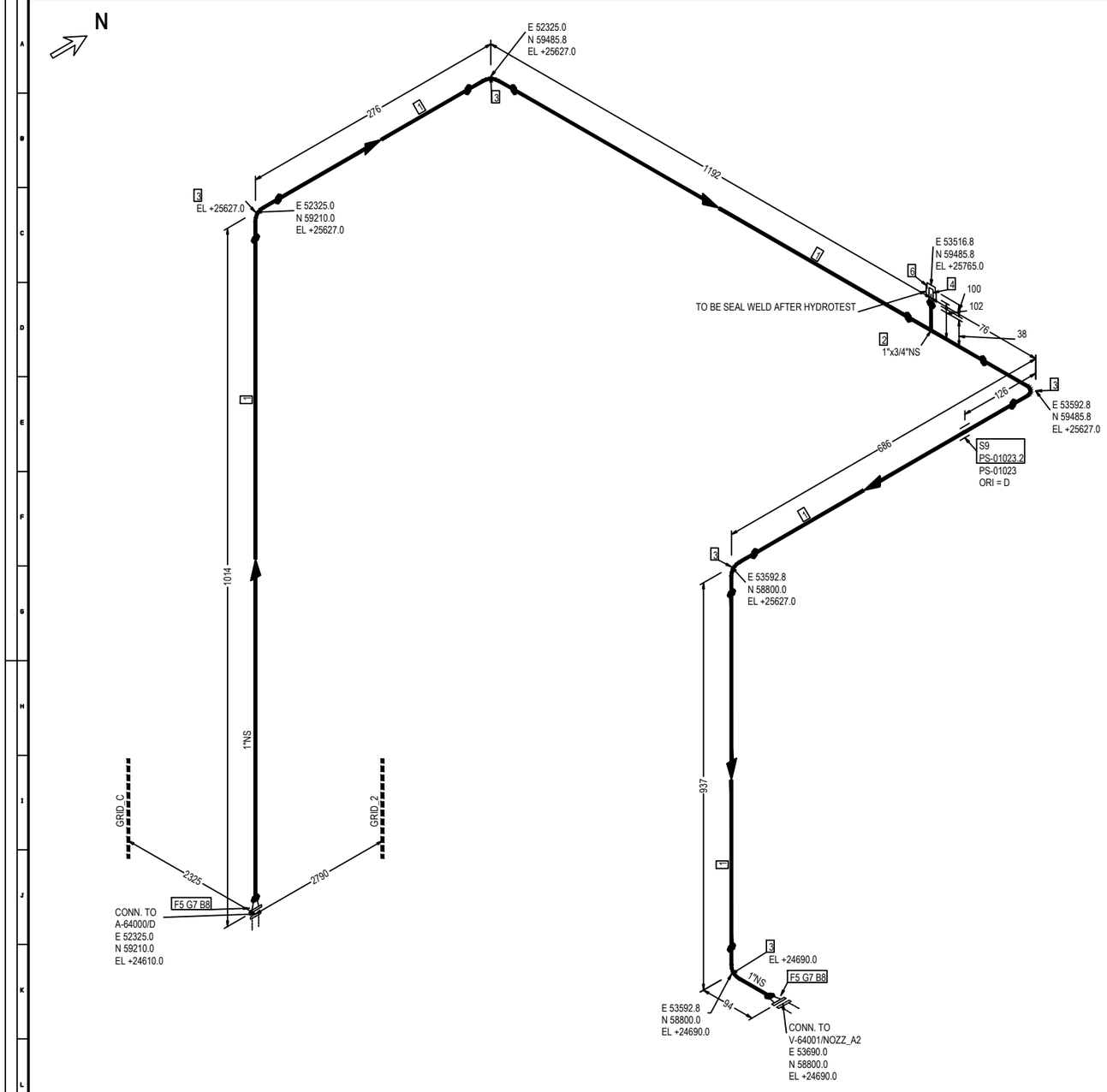
## 1"-VL-261-01HSS-E

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK | SCALE N.A.

DRAWN SPS | CHECKED CBO | APPROVED CGI | DATE 29/09/25

SIZE: A3 | DRAWING NO. 123A90-DDL-PP-DI-71000-125 | SHEET 2/2 | REV. 02

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FABRICATION MATERIALS

| PT NO | COMPONENT DESCRIPTION | N.S. | ITEM CODE | Q.TY | WEIGHT |
|---|---|---|---|---|---|
| 1 | Pipe ASME B36.10M PE 4,55 SML ASTM/ASME A/SA333 Gr.6 | 1 | PIPECS08300100 | 3707MM | 11.86 |
| 2 | Tee Reducing ASME B16.9 BW 4,55x3,91 WRS ASTM/ASME A/SA420 Gr.WPL6 | 1 x 3/4 | TER0CS2607013Q | 1 | 0.46 |
| 3 | 90 Deg Elbow Long Radius ASME B16.9 BW 4,55 WRS ASTM/ASME A/SA420 Gr.WPL6 | 1 | E90RCS01780100 | 5 | 0.90 |
| 4 | Nipple L=100mm ASME B36.10M THRD-M NPT x PE 3,91 SML ASTM/ASME A/SA333 Gr.6 | 3/4 | N100CS05453Q00 | 1 | 0.20 |
| 5 | Flange WN ASME B16.5 150LB RF 4,55 FRG ASTM/ASME A/SA350 Gr.LF2 | 1 | FLW0CS16540100 | 2 | 2.80 |
| | | | TOTAL FABRICATION WEIGHT | | 16.22 |

ERECTION MATERIALS

| PT NO | COMPONENT DESCRIPTION | N.S. | ITEM CODE | Q.TY | WEIGHT |
|---|---|---|---|---|---|
| 6 | Cap Forged ASME B16.11 THRD-F NPT 3000# FRG ASTM/ASME A/SA350 Gr.LF2 | 3/4 | CAPFCS00673Q00 | 1 | 0.19 |
| 7 | Gasket Spiral Wound Thk. 3.2 mm ASME B16.20 150LB RF GSK AISI 316 + GRAPHITE c/w INNER RING | 1 | GSW0GK11100100 | 2 | 0.12 |
| 8 | 65 Stud Bolt + 2 Heavy Nuts ASME B1.1 ASTM A193 Gr.B7 - A194 Gr.2H Hot dip galvanized | 1/2 | SB20BO01080200 | 8 | 0.96 |
| | SUPPORTS | | | | |
| 9 | /PS-01023.2 | 1 | | 1 | 0.19 |
| | | | TOTAL ERECTION WEIGHT | | 1.46 |
| | | | TOTAL WEIGHT | | 17.70 |

| REFERENCE DOCUMENTS | |
|---|---|
| 123A90-DDL-PP-RE-70001 | STRESS ANALYSIS REPORT |
| 123A90-DDL-PR-PID-80027 | P&ID |
| 123A90-DDL-MAT-SP-60003 | INSULATION SPECIFICATION |
| 123A90-DDL-MAT-SP-60006 | COATING & PAINTING SPEC. |
| 123A90-DDL-PP-00-72000 | PIPING SUPPORT BOOK |
| 123A90-DDL-PP-SP-70029 | PIPING MATERIAL CLASS |

SYMBOLS LEGEND:
BUTT WELD · THREADED · HEAT TRACING · SOCKET · PIPE SUPPORT · INSULATED

| NDT EXAMINATION | | | | INSULATION & PAINTING | | |
|---|---|---|---|---|---|---|
| NDT TYPE | % | NDT TYPE | % | INS. TYPE | INS. THK. | INS. SURF. (m²) |
| RT | 10 | | 100 | N | | |
| INSPECTION CATEGORY | 2 | MT/PT | 10 | PAINT SYS. | BASE RAL | PAINT. SURF. (m²) |
| TESTING | | | | 1 | RAL 9002 | 0.45 |
| TEST FLUID | | TEST PRESS. (barg) | | HEAT TRACING | | |
| Water | | 18 | | - | | |
| PROCESS LINE DATA | | | | LINE DATA | | |
| DESIGN TEMP. (°C) | | DESIGN PRESS. (barg) | | STRESS SYS. | PED CAT. | PWHT |
| -46 | 100 | | 12 | - | Art. 4, par. 3 | No |

| Revision Number | Date | Description | Prepared by | Checked by | Approved by |
|---|---|---|---|---|---|
| 02 | 29/09/25 | AS-BUILT (ASB) | SPS | CBO | CGI |
| 01 | 26/07/24 | ACCEPTED FOR CONSTRUCTION | MMA | CBO | DLO |
| 00 | 07/06/24 | ISSUE FOR REVIEW | MMA | CBO | DLO |

ROSETTI MARINO

# CROSSWIND

DWG TYTLE:

## 1"-N-262-01CS-N

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK

SCALE N.A.

DRAWN SPS | CHECKED CBO | APPROVED CGI | DATE 29/09/25

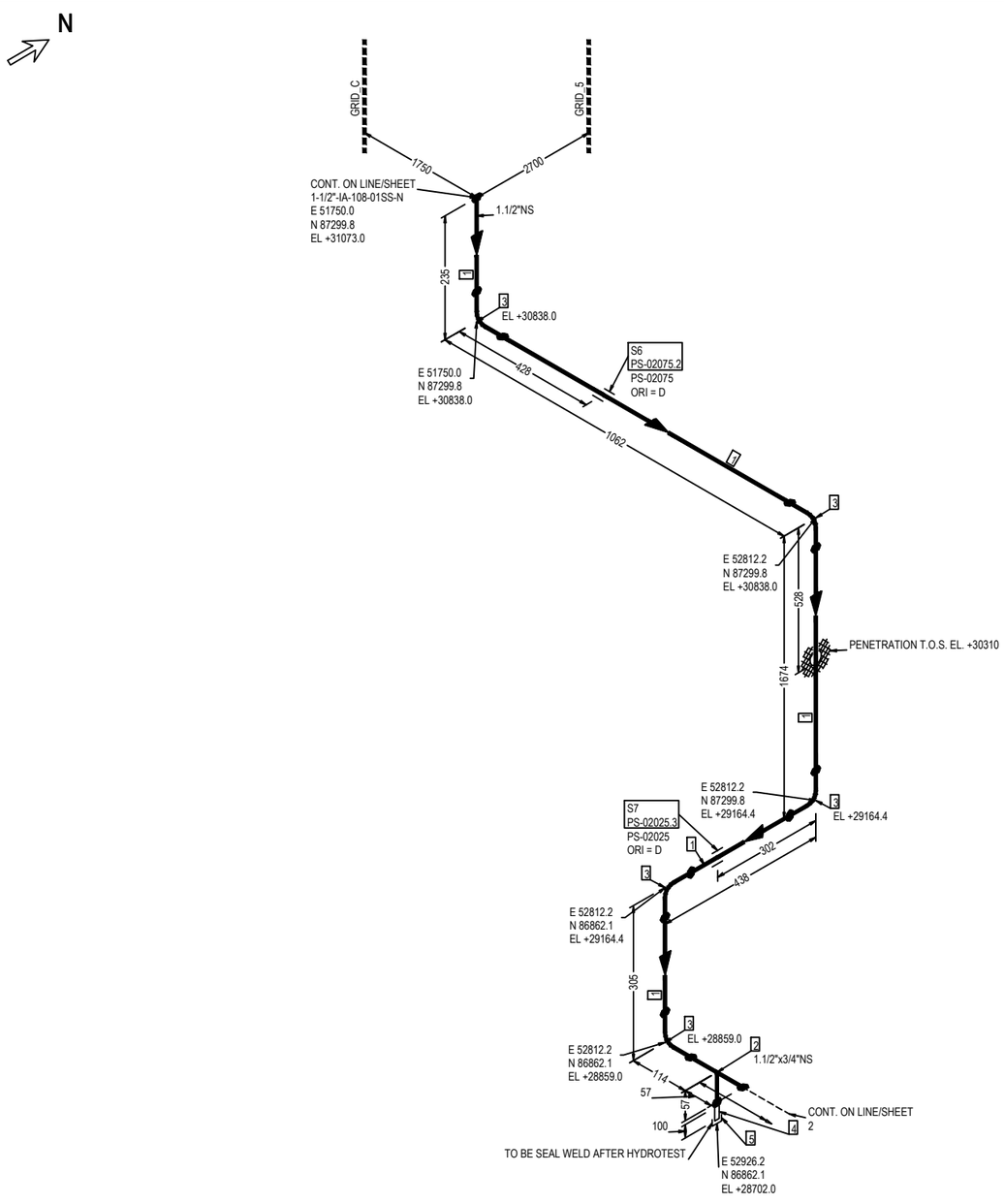
SIZE: A3

DRAWING NO. 123A90-DDL-PP-DI-71000_126

SHEET 1/1

REV. 02

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FABRICATION MATERIALS

| PT NO | COMPONENT DESCRIPTION | N.S. | ITEM CODE | Q.TY | WEIGHT |
|---|---|---|---|---|---|
| 1 | Pipe ASME B36.19M PE 3,68 SML ASTM A312 Gr.TP316/316L | 1.1/2 | PIPESS00531H00 | 3201MM | 13.12 |
| 2 | Tee Reducing ASME B16.9 BW 3,68x2,87 WRS ASTM A403 Gr.WP316/316L | 1.1/2 x 3/4 | TER0SS03751H3Q | 1 | 0.75 |
| 3 | 90 Deg Elbow Long Radius ASME B16.9 BW 3,68 WRS ASTM A403 Gr.WP316/316L | 1.1/2 | E90RSS00681H00 | 5 | 1.85 |
| 4 | Nipple L=100mm ASME B36.19M THRD-M NPT x PE 2,87 SML ASTM A312 Gr.TP316/316L | 3/4 | N100SS02653Q00 | 1 | 0.15 |
| | | | TOTAL FABRICATION WEIGHT | | 15.87 |

ERECTION MATERIALS

| PT NO | COMPONENT DESCRIPTION | N.S. | ITEM CODE | Q.TY | WEIGHT |
|---|---|---|---|---|---|
| 5 | Cap Forged ASME B16.11 THRD-F NPT 3000# FRG ASTM A182 Gr.F316/316L | 3/4 | CAPFSS00023Q00 | 1 | 0.19 |
| | SUPPORTS | | | | |
| 6 | /PS-02075.2 | 1.1/2 | | 1 | 0.29 |
| 7 | /PS-02025.3 | 1.1/2 | | 1 | 0.29 |
| | | | TOTAL ERECTION WEIGHT | | 0.77 |
| | | | TOTAL WEIGHT | | 16.64 |

| REFERENCE DOCUMENTS | |
|---|---|
| 123A90-DDL-PP-RE-70001 | STRESS ANALYSIS REPORT |
| 123A90-DDL-PR-PID-80027 | P&ID |
| 123A90-DDL-MAT-SP-60003 | INSULATION SPECIFICATION |
| 123A90-DDL-MAT-SP-60006 | COATING & PAINTING SPEC. |
| 123A90-DDL-PP-00-72000 | PIPING SUPPORT BOOK |
| 123A90-DDL-PP-SP-70029 | PIPING MATERIAL CLASS |

SYMBOLS LEGEND:
BUTT WELD — THREADED — HEAT TRACING
SOCKET — PIPE SUPPORT — INSULATED

| NDT EXAMINATION | | | |
|---|---|---|---|
| NDT TYPE | % | NDT TYPE | % |
| RT | 10 | VT | 100 |
| INSPECTION CATEGORY | 2 | MT/PT | 10 |
| TESTING | | | |
| TEST FLUID | | TEST PRESS.[barg] | |
| Water | | 18 | |
| PROCESS LINE DATA | | | |
| DESIGN TEMP. [°C] | | DESIGN PRESS.[barg] | |
| -29 | 100 | | 12 |

| INSULATION & PAINTING | | |
|---|---|---|
| INS. TYPE | INS. THK. | INS. SURF. [m²] |
| N | | |
| PAINT SYS. | BASE RAL | PAINT. SURF. [m²] |
| 6A | RAL 9002 | 1.76 |
| HEAT TRACING | | |
| - | | |
| LINE DATA | | |
| STRESS SYS. | PED CAT. | PWHT |
| - | Art. 4, par. 3 | No |

| Revision Number | Date | Description | Prepared by | Checked by | Approved by |
|---|---|---|---|---|---|
| 02 | 29/09/25 | AS-BUILT (ASB) | SPS | CBO | CGI |
| 01 | 26/07/24 | ACCEPTED FOR CONSTRUCTION | MMA | CBO | DLO |
| 00 | 07/06/24 | ISSUE FOR REVIEW | MMA | CBO | DLO |

ROSETTI MARINO

# CROSSWIND

DWG TYTLE:

## 1-1/2"-IA-263-01SS-N

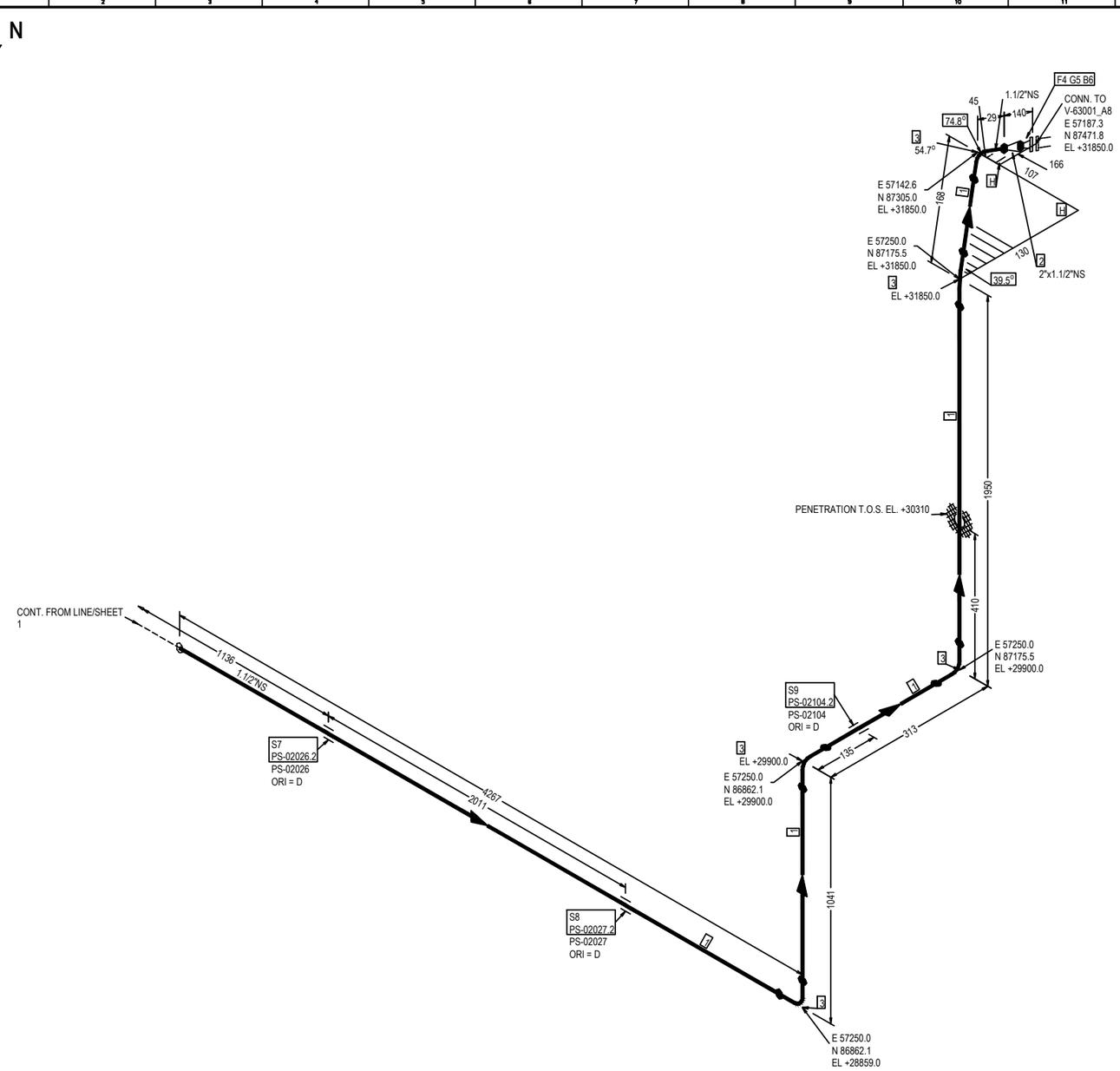
CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK

SCALE N.A.

DRAWN SPS | CHECKED CBO | APPROVED CGI | DATE 29/09/25

SIZE: A3 | DRAWING NO. 123A90-DDL-PP-DI-71000_127 | SHEET 1/2 | REV. 02

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FABRICATION MATERIALS

| PT NO | COMPONENT DESCRIPTION | N.S. | ITEM CODE | Q.TY | WEIGHT |
|---|---|---|---|---|---|
| 1 | Pipe ASME B36.19M PE 3,68 SML ASTM A312 Gr.TP316/316L | 1.1/2 | PIPESS00531H00 | 7254MM | 29.74 |
| 2 | Reducer Concentric ASME B16.9 BW 2,77x3,68 WRS ASTM A403 Gr.WP316/316L | 2 x 1.1/2 | REC0SS0280021H | 1 | 0.31 |
| 3 | 90 Deg Elbow Long Radius ASME B16.9 BW 3,68 WRS ASTM A403 Gr.WP316/316L | 1.1/2 | E90RSS00681H00 | 5 | 1.85 |
| 4 | Flange WN ASME B16.5 150LB RF 2,77 FRG ASTM A182 Gr.F316/316L | 2 | FLW0SS00010200 | 1 | 2.74 |
| | | | TOTAL FABRICATION WEIGHT | | 34.64 |

ERECTION MATERIALS

| PT NO | COMPONENT DESCRIPTION | N.S. | ITEM CODE | Q.TY | WEIGHT |
|---|---|---|---|---|---|
| 5 | Gasket Spiral Wound Thk. 3.2 mm ASME B16.20 150LB RF GSK AISI 316 + GRAPHITE c/w INNER RING | 2 | GSW0GK11130200 | 1 | 0.10 |
| 6 | 85 Stud Bolt + 2 Heavy Nuts ASME B1.1 ASTM A193 Gr.B7 - A194 Gr.2H Hot dip galvanized | 5/8 | SB20BO00660300 | 4 | 0.00 |
| | SUPPORTS | | | | |
| 7 | /PS-02026.2 | 1.1/2 | | 1 | 0.29 |
| 8 | /PS-02027.2 | 1.1/2 | | 1 | 0.29 |
| 9 | /PS-02104.2 | 1.1/2 | | 1 | 0.29 |
| | | | TOTAL ERECTION WEIGHT | | 0.97 |
| | | | TOTAL WEIGHT | | 35.61 |

| REFERENCE DOCUMENTS | |
|---|---|
| 123A90-DDL-PP-RE-70001 | STRESS ANALYSIS REPORT |
| 123A90-DDL-PR-PID-80027 | P&ID |
| 123A90-DDL-MAT-SP-60003 | INSULATION SPECIFICATION |
| 123A90-DDL-MAT-SP-60006 | COATING & PAINTING SPEC. |
| 123A90-DDL-PP-00-72000 | PIPING SUPPORT BOOK |
| 123A90-DDL-PP-SP-70029 | PIPING MATERIAL CLASS |

SYMBOLS LEGEND:
BUTT WELD · THREADED · HEAT TRACING · SOCKET · PIPE SUPPORT · INSULATED

| NDT EXAMINATION | | | | INSULATION & PAINTING | | |
|---|---|---|---|---|---|---|
| NDT TYPE | % | NDT TYPE | % | INS. TYPE | INS. THK. | INS. SURF. (m²) |
| RT | 10 | VT | 100 | N | | |
| INSPECTION CATEGORY | 2 | MT/PT | 10 | PAINT SYS. | BASE RAL | PAINT. SURF. (m²) |
| TESTING | | | | 6A | RAL 9002 | 1.76 |
| TEST FLUID | | TEST PRESS. [barg] | | HEAT TRACING | | |
| Water | | 18 | | - | | |
| PROCESS LINE DATA | | | | LINE DATA | | |
| DESIGN TEMP. [°C] | | DESIGN PRESS. [barg] | | STRESS SYS. | PED CAT. | PWHT |
| -29 | 100 | | 12 | - | Art. 4, par. 3 | No |

| Revision Number | Date | Description | Prepared by | Checked by | Approved by |
|---|---|---|---|---|---|
| 02 | 29/09/25 | AS-BUILT (ASB) | SPS | CBO | CGI |
| 01 | 26/07/24 | ACCEPTED FOR CONSTRUCTION | MMA | CBO | DLO |
| 00 | 07/06/24 | ISSUE FOR REVIEW | MMA | CBO | DLO |

ROSETTI MARINO

# CROSSWIND

DWG TYTLE:

## 1-1/2"-IA-263-01SS-N

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK

SCALE N.A.

DRAWN SPS | CHECKED CBO | APPROVED CGI | DATE 29/09/25

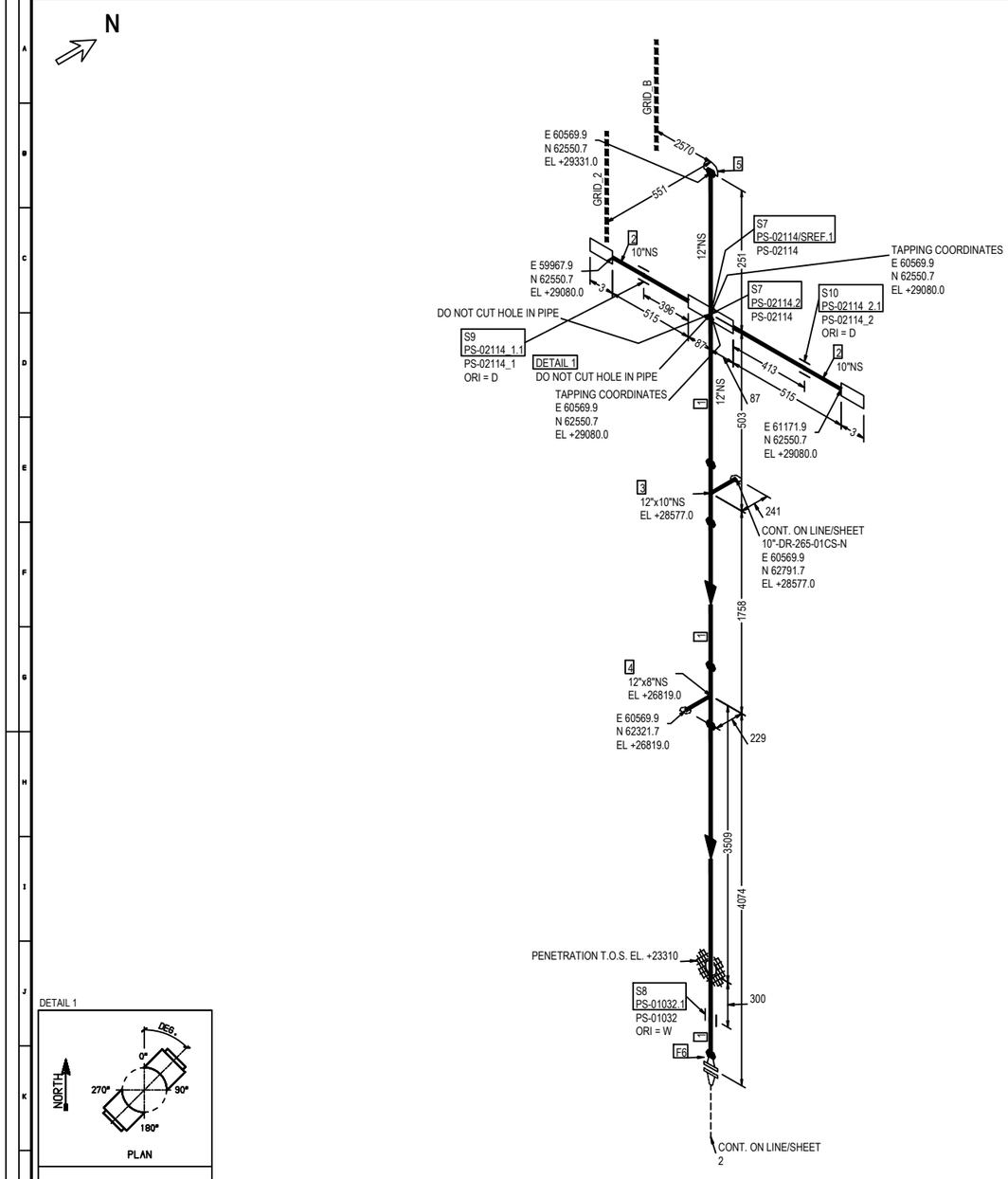
SIZE: A3

DRAWING NO. 123A90-DDL-PP-DI-71000_127

SHEET 2/2

REV. 02

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DETAIL 1




S-222-B-10"-***-469-515-90

FABRICATION MATERIALS

| PT NO | COMPONENT DESCRIPTION | N.S. | ITEM CODE | Q.TY | WEIGHT |
|---|---|---|---|---|---|
| 1 | Pipe ASME B36.10M PE 6,35 SML ASTM/ASME A/SA333 Gr.6 | 12 | PIPECS10401200 | 5455MM | 271.11 |
| 2 | Pipe ASME B36.10M PE 6,35 SML ASTM/ASME A/SA333 Gr.6 | 10 | PIPECS10391000 | 1030MM | 43.05 |
| 3 | Tee Reducing ASME B16.9 BW 6,35x6,35 WRS ASTM/ASME A/SA420 Gr.WPL6 | 12 x 10 | TER0CS26531210 | 1 | 42.04 |
| 4 | Tee Reducing ASME B16.9 BW 6,35x6,35 WRS ASTM/ASME A/SA420 Gr.WPL6 | 12 x 8 | TER0CS26491208 | 1 | 42.04 |
| 5 | Cap ASME B16.9 BW 6,35 WRS ASTM/ASME A/SA420 Gr.WPL6 | 12 | CAP0CS06421200 | 1 | 10.03 |
| 6 | Flange WN ASME B16.5 150LB RF 6,35 FRG ASTM/ASME A/SA350 Gr.LF2 | 12 | FLW0CS16601200 | 1 | 36.00 |
| | SUPPORTS | | | | |
| 7 | /PS-02114 | 10 | | 2 | 0.00 |
| | | | | TOTAL FABRICATION WEIGHT | 444.27 |

ERECTION MATERIALS

| PT NO | COMPONENT DESCRIPTION | N.S. | ITEM CODE | Q.TY | WEIGHT |
|---|---|---|---|---|---|
| | SUPPORTS | | | | |
| 8 | /PS-01032.1 | 12 | | 1 | 3.64 |
| 9 | /PS-02114_1.1 | 10 | | 1 | 0.12 |
| 10 | /PS-02114_2.1 | 10 | | 1 | 0.12 |
| | | | | TOTAL ERECTION WEIGHT | 3.88 |
| | | | | TOTAL WEIGHT | 448.15 |

| REFERENCE DOCUMENTS | |
|---|---|
| 123A90-DDL-PP-RE-70001 | STRESS ANALYSIS REPORT |
| 123A90-DDL-PR-PID-80043 | P&ID |
| 123A90-DDL-MAT-SP-60003 | INSULATION SPECIFICATION |
| 123A90-DDL-MAT-SP-60006 | COATING & PAINTING SPEC. |
| 123A90-DDL-PP-00-72000 | PIPING SUPPORT BOOK |
| 123A90-DDL-PP-SP-70029 | PIPING MATERIAL CLASS |

SYMBOLS LEGEND:
BUTT WELD · THREADED · HEAT TRACING · SOCKET · PIPE SUPPORT · INSULATED

| NDT EXAMINATION | | | | INSULATION & PAINTING | | |
|---|---|---|---|---|---|---|
| NDT TYPE | % | NDT TYPE | % | INS. TYPE | INS. THK. | INS. SURF. (m²) |
| RT | 10 | | 100 | N | | |
| INSPECTION CATEGORY | 2 | MT/PT | 10 | PAINT SYS. | BASE RAL | PAINT. SURF. (m²) |
| TESTING | | | | 1 | RAL 9002 | 13.52 |
| TEST FLUID | | TEST PRESS. (barg) | | HEAT TRACING | | |
| N/A | | N/A | | - | | |
| PROCESS LINE DATA | | | | LINE DATA | | |
| DESIGN TEMP. (°C) | | DESIGN PRESS. (barg) | | STRESS SYS. | PED CAT. | PWHT |
| unset | 80 | | 3.5 | - | Art. 4, par. 3 | No |

| Revision Number | Date | Description | Prepared by | Checked by | Approved by |
|---|---|---|---|---|---|
| 02 | 29/09/25 | AS-BUILT (ASB) | SPS | CBO | CGI |
| 01 | 26/07/24 | ACCEPTED FOR CONSTRUCTION | MMA | CBO | DLO |
| 00 | 07/06/24 | ISSUE FOR REVIEW | MMA | CBO | DLO |

ROSETTI MARINO

# CROSSWIND

DWG TYTLE:

## 12"-DR-264-01CS-N

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK

SCALE N.A.

DRAWN SPS | CHECKED CBO | APPROVED CGI | DATE 29/09/25

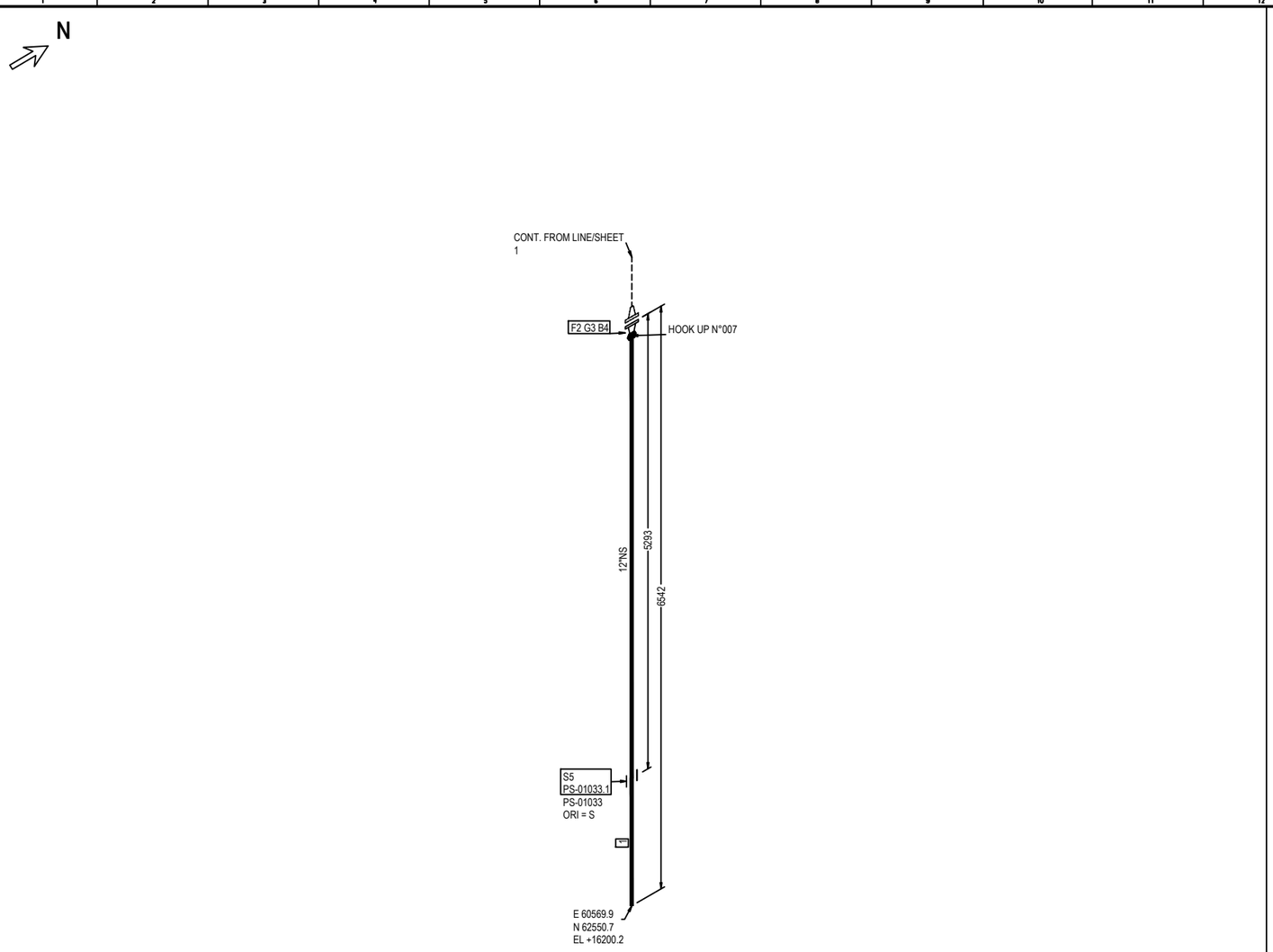
SIZE: A3

DRAWING NO. 123A90-DDL-PP-DI-71000_128

SHEET 1/2

REV. 02

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FABRICATION MATERIALS

| PT NO | COMPONENT DESCRIPTION | N.S. | ITEM CODE | Q.TY | WEIGHT |
|---|---|---|---|---|---|
| 1 | Pipe ASME B36.10M PE 6,35 SML ASTM/ASME A/SA333 Gr.6 | 12 | PIPECS10401200 | 6427MM | 319.42 |
| 2 | Flange WN ASME B16.5 150LB RF 6,35 FRG ASTM/ASME A/SA350 Gr.LF2 | 12 | FLW0CS16601200 | 1 | 36.00 |
| | | | | TOTAL FABRICATION WEIGHT | 355.42 |

ERECTION MATERIALS

| PT NO | COMPONENT DESCRIPTION | N.S. | ITEM CODE | Q.TY | WEIGHT |
|---|---|---|---|---|---|
| 3 | Gasket Spiral Wound Thk. 3.2 mm ASME B16.20 150LB RF GSK AISI 316 + GRAPHITE c/w INNER RING | 12 | GSW0GK11291200 | 1 | 0.09 |
| 4 | 125 Stud Bolt + 2 Heavy Nuts ASME B1.1 ASTM A193 Gr.B7 - A194 Gr.2H Hot dip galvanized | 7/8 | SB20BO04290500 | 12 | 0.00 |
| | SUPPORTS | | | | |
| 5 | /PS-01033.1 | 12 | | 1 | 3.64 |
| | | | | TOTAL ERECTION WEIGHT | 3.73 |
| | | | | TOTAL WEIGHT | 359.15 |

| REFERENCE DOCUMENTS | |
|---|---|
| 123A90-DDL-PP-RE-70001 | STRESS ANALYSIS REPORT |
| 123A90-DDL-PR-PID-80043 | P&ID |
| 123A90-DDL-MAT-SP-60003 | INSULATION SPECIFICATION |
| 123A90-DDL-MAT-SP-60006 | COATING & PAINTING SPEC. |
| 123A90-DDL-PP-00-72000 | PIPING SUPPORT BOOK |
| 123A90-DDL-PP-SP-70029 | PIPING MATERIAL CLASS |

SYMBOLS LEGEND:
BUTT WELD · THREADED · HEAT TRACING · SOCKET · PIPE SUPPORT · INSULATED

| NDT EXAMINATION | | | |
|---|---|---|---|
| NDT TYPE | % | NDT TYPE | % |
| RT | 10 | | 100 |
| INSPECTION CATEGORY | 2 | MT/PT | 10 |
| TESTING | | | |
| TEST FLUID | | TEST PRESS. (barg) | |
| N/A | | N/A | |
| PROCESS LINE DATA | | | |
| DESIGN TEMP. (°C) | | DESIGN PRESS. (barg) | |
| unset | 80 | | 3.5 |

| INSULATION & PAINTING | | |
|---|---|---|
| INS. TYPE | INS. THK. | INS. SURF. (m²) |
| N | | |
| PAINT SYS. | BASE RAL | PAINT. SURF. (m²) |
| 1 | RAL 9002 | 13.52 |
| HEAT TRACING | | |
| - | | |
| LINE DATA | | |
| STRESS SYS. | PED CAT. | PWHT |
| - | Art. 4, par. 3 | No |

| Revision Number | Date | Description | Prepared by | Checked by | Approved by |
|---|---|---|---|---|---|
| 02 | 29/09/25 | AS-BUILT (ASB) | SPS | CBO | CGI |
| 01 | 26/07/24 | ACCEPTED FOR CONSTRUCTION | MMA | CBO | DLO |
| 00 | 07/06/24 | ISSUE FOR REVIEW | MMA | CBO | DLO |

ROSETTI MARINO

# CROSSWIND

DWG TYTLE:

## 12"-DR-264-01CS-N

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK

SCALE N.A.

DRAWN SPS | CHECKED CBO | APPROVED CGI | DATE 29/09/25

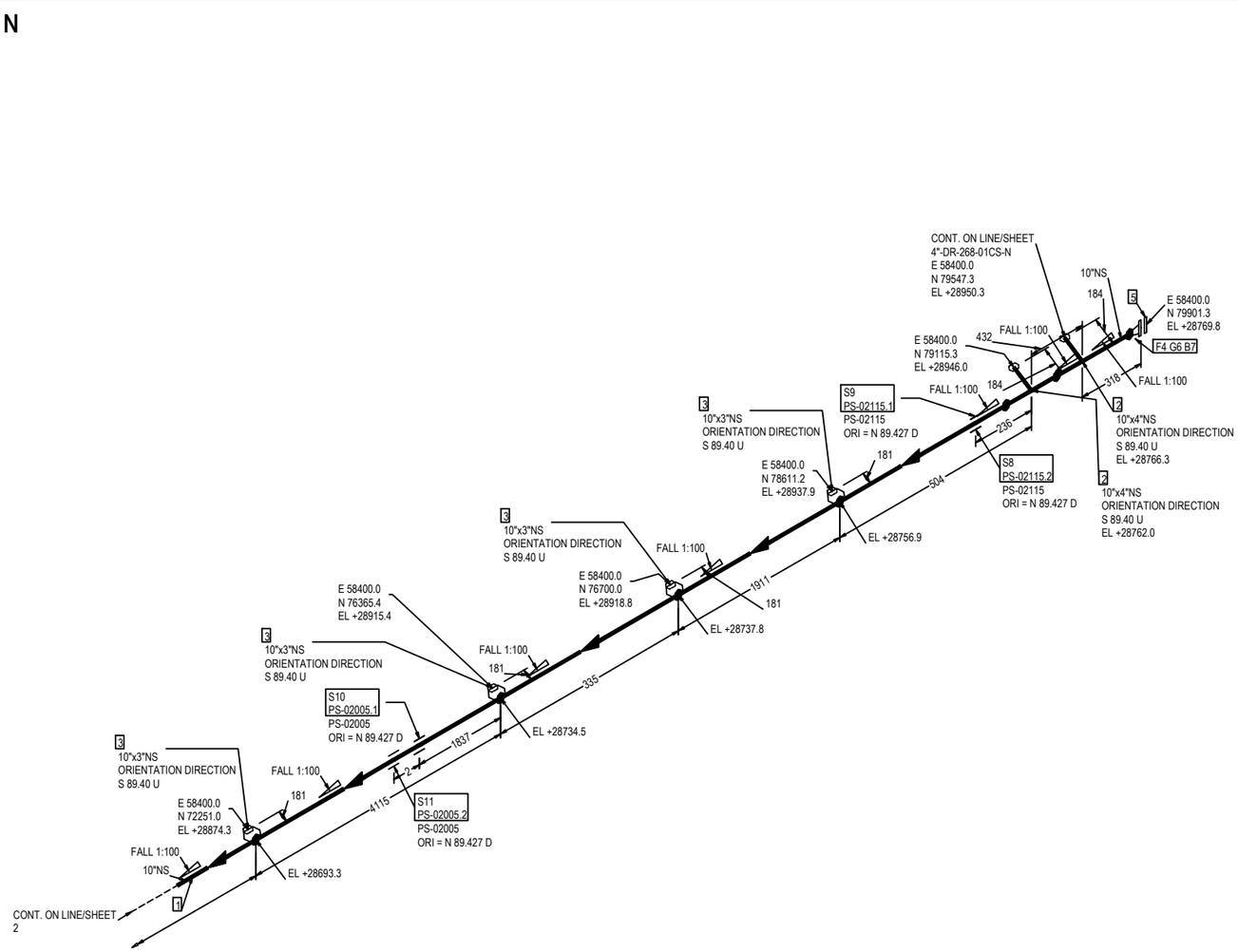
SIZE: A3

DRAWING NO. 123A90-DDL-PP-DI-71000_128

SHEET 2/2

REV. 02

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FABRICATION MATERIALS

| PT NO | COMPONENT DESCRIPTION | N.S. | ITEM CODE | Q.TY | WEIGHT |
|---|---|---|---|---|---|
| 1 | Pipe ASME B36.10M PE 6,35 SML ASTM/ASME A/SA333 Gr.6 | 10 | PIPECS10391000 | 6978MM | 291.68 |
| 2 | Tee Reducing ASME B16.9 BW 6,35x6,02 WRS ASTM/ASME A/SA420 Gr.WPL6 | 10 x 4 | TER0CS26351004 | 2 | 56.14 |
| 3 | Weldolet MSS SP-97 BW 6,35x5,49 FRG ASTM/ASME A/SA350 Gr.LF2 | 10 x 3 | OWELCS26851003 | 4 | 7.24 |
| 4 | Flange WN ASME B16.5 150LB RF 6,35 FRG ASTM/ASME A/SA350 Gr.LF2 | 10 | FLW0CS16591000 | 1 | 24.00 |
| | | | | TOTAL FABRICATION WEIGHT | 379.06 |

ERECTION MATERIALS

| PT NO | COMPONENT DESCRIPTION | N.S. | ITEM CODE | Q.TY | WEIGHT |
|---|---|---|---|---|---|
| 5 | Flange Blind ASME B16.5 150LB RF FRG ASTM/ASME A/SA350 Gr.LF2 | 10 | FLB0CS07911000 | 1 | 24.00 |
| 6 | Gasket Spiral Wound Thk. 3.2 mm ASME B16.20 150LB RF GSK AISI 316 + GRAPHITE c/w INNER RING | 10 | GSW0GK11181000 | 1 | 0.57 |
| 7 | 120 Stud Bolt + 2 Heavy Nuts ASME B1.1 ASTM A193 Gr.B7 - A194 Gr.2H Hot dip galvanized | 7/8 | SB20BO22250500 | 12 | 7.80 |
| | SUPPORTS | | | | |
| 8 | /PS-02115.2 | 10 | | 1 | 0.12 |
| 9 | /PS-02115.1 | 10 | | 1 | 5.56 |
| 10 | /PS-02005.1 | 10 | | 1 | 5.56 |
| 11 | /PS-02005.2 | 10 | | 1 | 0.12 |
| | | | | TOTAL ERECTION WEIGHT | 43.73 |
| | | | | TOTAL WEIGHT | 422.79 |

| REFERENCE DOCUMENTS | |
|---|---|
| 123A90-DDL-PP-RE-70001 | STRESS ANALYSIS REPORT |
| 123A90-DDL-PR-PID-80043 | P&ID |
| 123A90-DDL-MAT-SP-60003 | INSULATION SPECIFICATION |
| 123A90-DDL-MAT-SP-60006 | COATING & PAINTING SPEC. |
| 123A90-DDL-PP-00-72000 | PIPING SUPPORT BOOK |
| 123A90-DDL-PP-SP-70029 | PIPING MATERIAL CLASS |

SYMBOLS LEGEND:
BUTT WELD · THREADED · HEAT TRACING · SOCKET · PIPE SUPPORT · INSULATED

| NDT EXAMINATION | | | |
|---|---|---|---|
| NDT TYPE | % | NDT TYPE | % |
| RT | 10 | | 100 |
| INSPECTION CATEGORY | 2 | MT/PT | 10 |
| TESTING | | | |
| TEST FLUID | | TEST PRESS. (barg) | |
| N/A | | N/A | |
| PROCESS LINE DATA | | | |
| DESIGN TEMP. (°C) | | DESIGN PRESS. (barg) | |
| unset | 80 | | 3.5 |

| INSULATION & PAINTING | | |
|---|---|---|
| INS. TYPE | INS. THK. | INS. SURF. (m²) |
| N | | |
| PAINT SYS. | BASE RAL | PAINT. SURF. (m²) |
| 1 | RAL 9002 | 16.26 |
| HEAT TRACING | | |
| - | | |
| LINE DATA | | |
| STRESS SYS. | PED CAT. | PWHT |
| - | Art. 4, par. 3 | No |

| Revision Number | Date | Description | Prepared by | Checked by | Approved by |
|---|---|---|---|---|---|
| 02 | 29/09/25 | AS-BUILT (ASB) | SPS | CBO | CGI |
| 01 | 26/07/24 | ACCEPTED FOR CONSTRUCTION | MMA | CBO | DLO |
| 00 | 07/06/24 | ISSUE FOR REVIEW | MMA | CBO | DLO |

ROSETTI MARINO

# CROSSWIND

DWG TYTLE:

## 10"-DR-265-01CS-N

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK

SCALE N.A.

DRAWN SPS | CHECKED CBO | APPROVED CGI | DATE 29/09/25

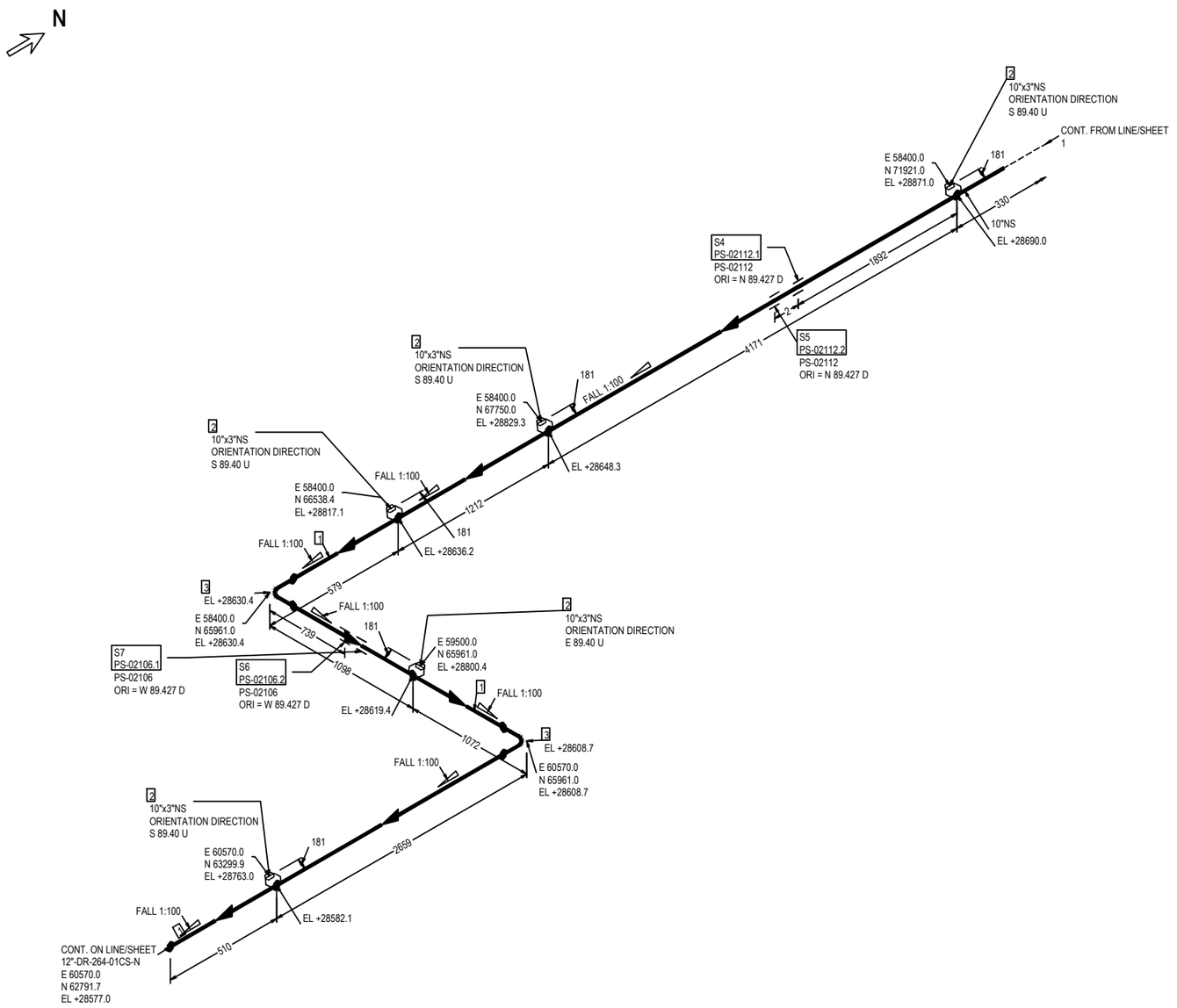
SIZE: A3

DRAWING NO. 123A90-DDL-PP-DI-71000_129

SHEET 1/2

REV. 02

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FABRICATION MATERIALS

| PT NO | COMPONENT DESCRIPTION | N.S. | ITEM CODE | Q.TY | WEIGHT |
|---|---|---|---|---|---|
| 1 | Pipe ASME B36.10M PE 6,35 SML ASTM/ASME A/SA333 Gr.6 | 10 | PIPECS10391000 | 9778MM | 408.72 |
| 2 | Weldolet MSS SP-97 BW 6,35x5,49 FRG ASTM/ASME A/SA350 Gr.LF2 | 10 x 3 | OWELCS26851003 | 5 | 9.05 |
| 3 | 90 Deg Elbow Long Radius ASME B16.9 BW 6,35 WRS ASTM/ASME A/SA420 Gr.WPL6 | 10 | E90RCS06471000 | 2 | 50.68 |
| | | | TOTAL FABRICATION WEIGHT | | 468.45 |

ERECTION MATERIALS

| PT NO | COMPONENT DESCRIPTION | N.S. | ITEM CODE | Q.TY | WEIGHT |
|---|---|---|---|---|---|
| | SUPPORTS | | | | |
| 4 | /PS-02112.1 | 10 | | 1 | 5.56 |
| 5 | /PS-02112.2 | 10 | | 1 | 0.12 |
| 6 | /PS-02106.2 | 10 | | 1 | 5.56 |
| 7 | /PS-02106.1 | 10 | | 1 | 0.12 |
| | | | TOTAL ERECTION WEIGHT | | 11.36 |
| | | | TOTAL WEIGHT | | 479.81 |

| REFERENCE DOCUMENTS | |
|---|---|
| 123A90-DDL-PP-RE-70001 | STRESS ANALYSIS REPORT |
| 123A90-DDL-PR-PID-80043 | P&ID |
| 123A90-DDL-MAT-SP-60003 | INSULATION SPECIFICATION |
| 123A90-DDL-MAT-SP-60006 | COATING & PAINTING SPEC. |
| 123A90-DDL-PP-00-72000 | PIPING SUPPORT BOOK |
| 123A90-DDL-PP-SP-70029 | PIPING MATERIAL CLASS |

| NDT EXAMINATION | | | |
|---|---|---|---|
| NDT TYPE | % | NDT TYPE | % |
| RT | 10 | | 100 |
| INSPECTION CATEGORY | 2 | MT/PT | 10 |
| TESTING | | | |
| TEST FLUID | | TEST PRESS. [barg] | |
| N/A | | N/A | |
| PROCESS LINE DATA | | | |
| DESIGN TEMP. [°C] | | DESIGN PRESS. [barg] | |
| unset | 80 | | 3.5 |

| INSULATION & PAINTING | | |
|---|---|---|
| INS. TYPE | INS. THK. | INS. SURF. [m²] |
| N | | |
| PAINT SYS. | BASE RAL | PAINT. SURF. [m²] |
| 1 | RAL 9002 | 16.26 |
| HEAT TRACING | | |
| - | | |
| LINE DATA | | |
| STRESS SYS. | PED CAT. | PWHT |
| - | Art. 4, par. 3 | No |

| Revision Number | Date | Description | Prepared by | Checked by | Approved by |
|---|---|---|---|---|---|
| 02 | 29/09/25 | AS-BUILT (ASB) | SPS | CBO | CGI |
| 01 | 26/07/24 | ACCEPTED FOR CONSTRUCTION | MMA | CBO | DLO |
| 00 | 07/06/24 | ISSUE FOR REVIEW | MMA | CBO | DLO |

SYMBOLS LEGEND:
BUTT WELD — THREADED — HEAT TRACING
SOCKET — PIPE SUPPORT — INSULATED

ROSETTI MARINO

# CROSSWIND

DWG TYTLE:

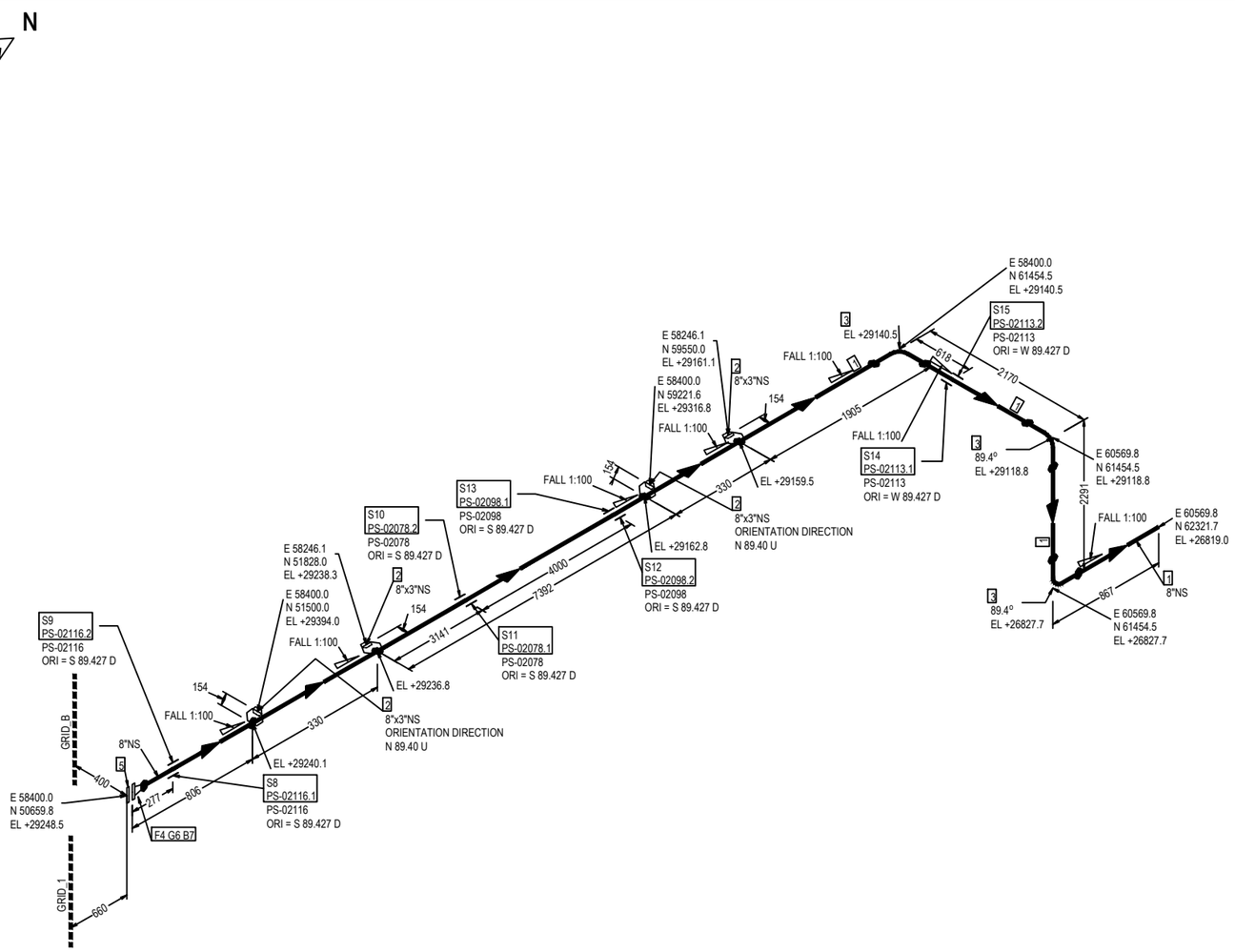
## 10"-DR-265-01CS-N

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK | SCALE N.A.

DRAWN SPS | CHECKED CBO | APPROVED CGI | DATE 29/09/25

SIZE: A3 | DRAWING NO. 123A90-DDL-PP-DI-71000_129 | SHEET 2/2 | REV. 02

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FABRICATION MATERIALS

| PT NO | COMPONENT DESCRIPTION | N.S. | ITEM CODE | Q.TY | WEIGHT |
|---|---|---|---|---|---|
| 1 | Pipe ASME B36.10M PE 6,35 SML ASTM/ASME A/SA333 Gr.6 | 8 | PIPECS10380800 | 14171MM | 471.89 |
| 2 | Weldolet MSS SP-97 BW 6,35x5,49 FRG ASTM/ASME A/SA350 Gr.LF2 | 8 x 3 | OWELCS26640803 | 4 | 7.24 |
| 3 | 90 Deg Elbow Long Radius ASME B16.9 BW 6,35 WRS ASTM/ASME A/SA420 Gr.WPL6 | 8 | E90RCS06460800 | 3 | 47.64 |
| 4 | Flange WN ASME B16.5 150LB RF 6,35 FRG ASTM/ASME A/SA350 Gr.LF2 | 8 | FLW0CS16580800 | 1 | 18.00 |
| | | | TOTAL FABRICATION WEIGHT | | 544.77 |

ERECTION MATERIALS

| PT NO | COMPONENT DESCRIPTION | N.S. | ITEM CODE | Q.TY | WEIGHT |
|---|---|---|---|---|---|
| 5 | Flange Blind ASME B16.5 150LB RF FRG ASTM/ASME A/SA350 Gr.LF2 | 8 | FLB0CS01010800 | 1 | 18.00 |
| 6 | Gasket Spiral Wound Thk. 3.2 mm ASME B16.20 150LB RF GSK AISI 316 + GRAPHITE c/w INNER RING | 8 | GSW0GK11170800 | 1 | 0.45 |
| 7 | 110 Stud Bolt + 2 Heavy Nuts ASME B1.1 ASTM A193 Gr.B7 - A194 Gr.2H Hot dip galvanized | 3/4 | SB20BO00700400 | 8 | 3.44 |
| | SUPPORTS | | | | |
| 8 | /PS-02116.1 | 8 | | 1 | 3.18 |
| 9 | /PS-02116.2 | 8 | | 1 | 0.12 |
| 10 | /PS-02078.2 | 8 | | 1 | 3.18 |
| 11 | /PS-02078.1 | 8 | | 1 | 0.12 |
| 12 | /PS-02098.2 | 8 | | 1 | 3.18 |
| 13 | /PS-02098.1 | 8 | | 1 | 0.12 |
| 14 | /PS-02113.1 | 8 | | 1 | 0.12 |
| 15 | /PS-02113.2 | 8 | | 1 | 3.18 |
| | | | TOTAL ERECTION WEIGHT | | 35.09 |
| | | | TOTAL WEIGHT | | 579.86 |

| REFERENCE DOCUMENTS | |
|---|---|
| 123A90-DDL-PP-RE-70001 | STRESS ANALYSIS REPORT |
| 123A90-DDL-PR-PID-80043 | P&ID |
| 123A90-DDL-MAT-SP-60003 | INSULATION SPECIFICATION |
| 123A90-DDL-MAT-SP-60006 | COATING & PAINTING SPEC. |
| 123A90-DDL-PP-00-72000 | PIPING SUPPORT BOOK |
| 123A90-DDL-PP-SP-70029 | PIPING MATERIAL CLASS |

SYMBOLS LEGEND:
BUTT WELD — THREADED — HEAT TRACING
SOCKET — PIPE SUPPORT — INSULATED

| NDT EXAMINATION | | | |
|---|---|---|---|
| NDT TYPE | % | NDT TYPE | % |
| RT | 10 | | 100 |
| INSPECTION CATEGORY | 2 | MT/PT | 10 |
| TESTING | | | |
| TEST FLUID | | TEST PRESS.(barg) | |
| N/A | | N/A | |
| PROCESS LINE DATA | | | |
| DESIGN TEMP. (°C) | | DESIGN PRESS.(barg) | |
| unset | 80 | | 3.5 |

| INSULATION & PAINTING | | |
|---|---|---|
| INS. TYPE | INS. THK. | INS. SURF. (m²) |
| N | | |
| PAINT SYS. | BASE RAL | PAINT. SURF. (m²) |
| 1 | RAL 9002 | 10.83 |
| HEAT TRACING | | |
| - | | |
| LINE DATA | | |
| STRESS SYS. | PED CAT. | PWHT |
| - | Art. 4, par. 3 | No |

| Revision Number | Date | Description | Prepared by | Checked by | Approved by |
|---|---|---|---|---|---|
| 02 | 29/09/25 | AS-BUILT (ASB) | SPS | CBO | CGI |
| 01 | 26/07/24 | ACCEPTED FOR CONSTRUCTION | MMA | CBO | DLO |
| 00 | 07/06/24 | ISSUE FOR REVIEW | MMA | CBO | DLO |

ROSETTI MARINO

CROSSWIND

DWG TYTLE:

8"-DR-266-01CS-N

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK

SCALE N.A.

DRAWN SPS | CHECKED CBO | APPROVED CGI | DATE 29/09/25

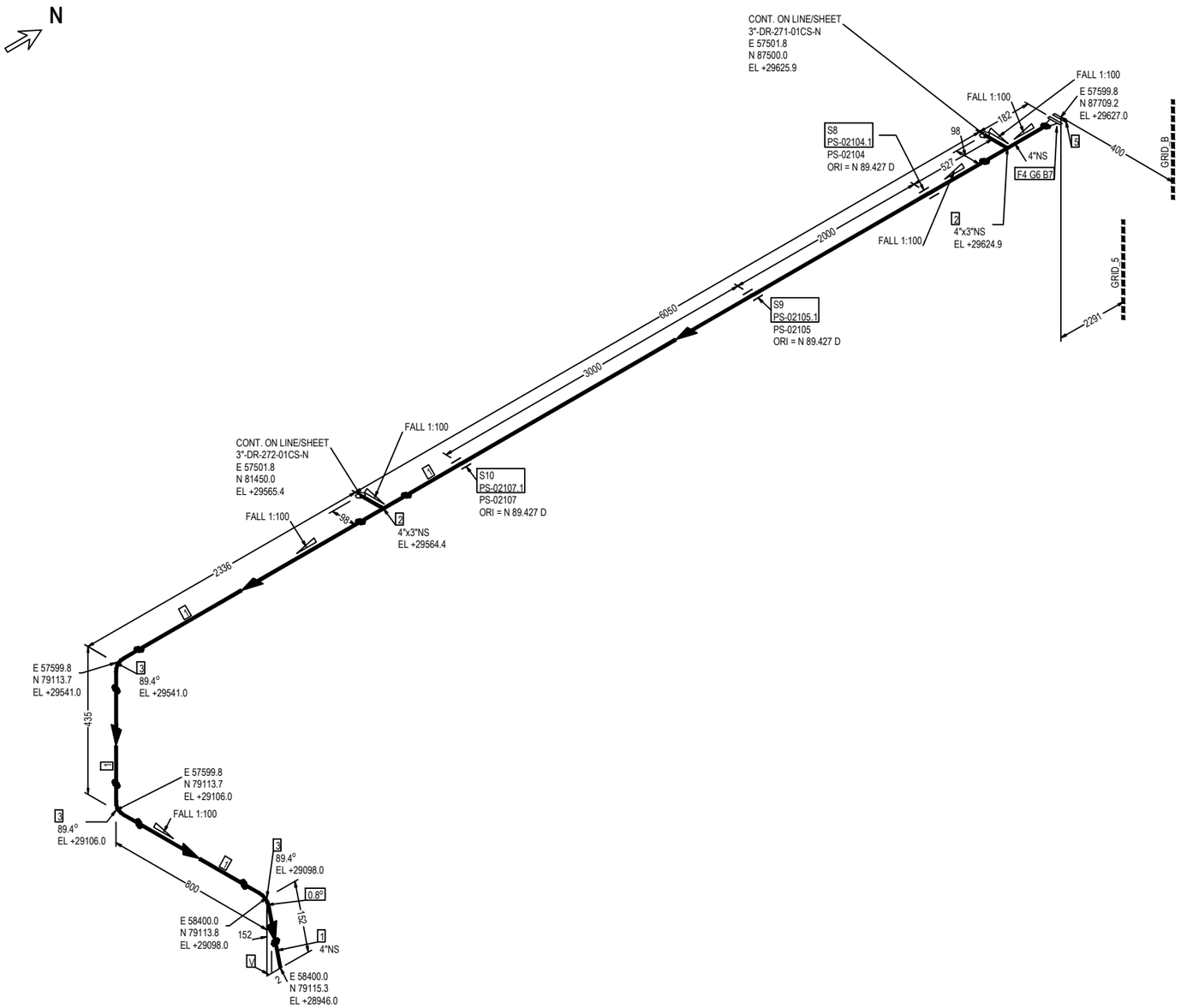
SIZE: A3

DRAWING NO. 123A90-DDL-PP-DI-71000_130

SHEET 1/1

REV. 02

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FABRICATION MATERIALS

| PT NO | COMPONENT DESCRIPTION | N.S. | ITEM CODE | Q.TY | WEIGHT |
|---|---|---|---|---|---|
| 1 | Pipe ASME B36.10M PE 6,02 SML ASTM/ASME A/SA333 Gr.6 | 4 | PIPECS03750400 | 8558MM | 137.78 |
| 2 | Tee Reducing ASME B16.9 BW 6,02x5,49 WRS ASTM/ASME A/SA420 Gr.WPL6 | 4 x 3 | TER0CS15730403 | 2 | 10.36 |
| 3 | 90 Deg Elbow Long Radius ASME B16.9 BW 6,02 WRS ASTM/ASME A/SA420 Gr.WPL6 | 4 | E90RCS02380400 | 3 | 11.73 |
| 4 | Flange WN ASME B16.5 150LB RF 6,02 FRG ASTM/ASME A/SA350 Gr.LF2 | 4 | FLW0CS03210400 | 1 | 6.80 |
| | | | TOTAL FABRICATION WEIGHT | | 166.67 |

ERECTION MATERIALS

| PT NO | COMPONENT DESCRIPTION | N.S. | ITEM CODE | Q.TY | WEIGHT |
|---|---|---|---|---|---|
| 5 | Flange Blind ASME B16.5 150LB RF FRG ASTM/ASME A/SA350 Gr.LF2 | 4 | FLB0CS07390400 | 1 | 6.80 |
| 6 | Gasket Spiral Wound Thk. 3.2 mm ASME B16.20 150LB RF GSK AISI 316 + GRAPHITE c/w INNER RING | 4 | GSW0GK11150400 | 1 | 0.24 |
| 7 | 90 Stud Bolt + 2 Heavy Nuts ASME B1.1 ASTM A193 Gr.B7 - A194 Gr.2H Hot dip galvanized | 5/8 | SB20BO04190300 | 8 | 2.00 |
| | SUPPORTS | | | | |
| 8 | /PS-02104.1 | 4 | | 1 | 0.67 |
| 9 | /PS-02105.1 | 4 | | 1 | 0.67 |
| 10 | /PS-02107.1 | 4 | | 1 | 0.67 |
| | | | TOTAL ERECTION WEIGHT | | 11.05 |
| | | | TOTAL WEIGHT | | 177.72 |

| REFERENCE DOCUMENTS | |
|---|---|
| 123A90-DDL-PP-RE-70001 | STRESS ANALYSIS REPORT |
| 123A90-DDL-PR-PID-80043 | P&ID |
| 123A90-DDL-MAT-SP-60003 | INSULATION SPECIFICATION |
| 123A90-DDL-MAT-SP-60006 | COATING & PAINTING SPEC. |
| 123A90-DDL-PP-00-72000 | PIPING SUPPORT BOOK |
| 123A90-DDL-PP-SP-70029 | PIPING MATERIAL CLASS |

| NDT EXAMINATION | | | |
|---|---|---|---|
| NDT TYPE | % | NDT TYPE | % |
| RT | 10 | | 100 |
| INSPECTION CATEGORY | 2 | MT/PT | 10 |
| TESTING | | | |
| TEST FLUID | | TEST PRESS. (barg) | |
| N/A | | N/A | |

| INSULATION & PAINTING | | |
|---|---|---|
| INS. TYPE | INS. THK. | INS. SURF. (m²) |
| N | | |
| PAINT SYS. | BASE RAL | PAINT. SURF. (m²) |
| 1 | RAL 9002 | 3.51 |
| HEAT TRACING | | |
| - | | |

| PROCESS LINE DATA | | | |
|---|---|---|---|
| DESIGN TEMP. (°C) | | DESIGN PRESS. (barg) | |
| unset | 80 | | 3.5 |

| LINE DATA | | |
|---|---|---|
| STRESS SYS. | PED CAT. | PWHT |
| - | Art. 4, par. 3 | No |

SYMBOLS LEGEND:
BUTT WELD · THREADED · HEAT TRACING · SOCKET · PIPE SUPPORT · INSULATED

| Revision Number | Date | Description | Prepared by | Checked by | Approved by |
|---|---|---|---|---|---|
| 02 | 29/09/25 | AS-BUILT (ASB) | SPS | CBO | CGI |
| 01 | 26/07/24 | ACCEPTED FOR CONSTRUCTION | MMA | CBO | DLO |
| 00 | 07/06/24 | ISSUE FOR REVIEW | MMA | CBO | DLO |

ROSETTI MARINO

CROSSWIND

DWG TYTLE:

# 4"-DR-267-01CS-N

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK

SCALE N.A.

DRAWN SPS | CHECKED CBO | APPROVED CGI | DATE 29/09/25

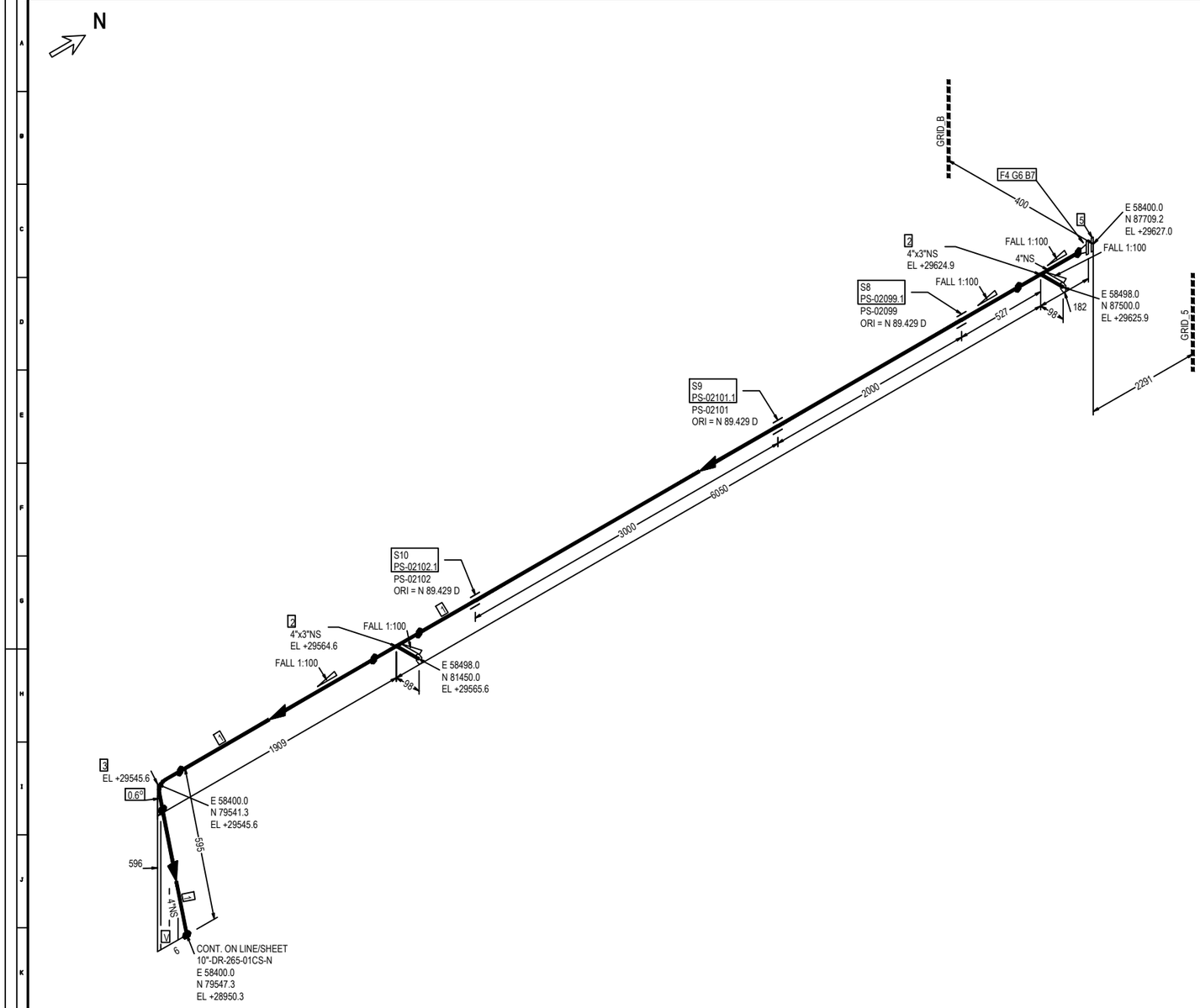
SIZE: A3

DRAWING NO. 123A90-DDL-PP-DI-71000_131

SHEET 1/1

REV. 02

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FABRICATION MATERIALS

| PT NO | COMPONENT DESCRIPTION | N.S. | ITEM CODE | Q.TY | WEIGHT |
|---|---|---|---|---|---|
| 1 | Pipe ASME B36.10M PE 6,02 SML ASTM/ASME A/SA333 Gr.6 | 4 | PIPECS03750400 | 7935MM | 127.75 |
| 2 | Tee Reducing ASME B16.9 BW 6,02x5,49 WRS ASTM/ASME A/SA420 Gr.WPL6 | 4 x 3 | TER0CS15730403 | 2 | 10.36 |
| 3 | 90 Deg Elbow Long Radius ASME B16.9 BW 6,02 WRS ASTM/ASME A/SA420 Gr.WPL6 | 4 | E90RCS02380400 | 1 | 3.91 |
| 4 | Flange WN ASME B16.5 150LB RF 6,02 FRG ASTM/ASME A/SA350 Gr.LF2 | 4 | FLW0CS03210400 | 1 | 6.80 |
| | | | TOTAL FABRICATION WEIGHT | | 148.82 |

ERECTION MATERIALS

| PT NO | COMPONENT DESCRIPTION | N.S. | ITEM CODE | Q.TY | WEIGHT |
|---|---|---|---|---|---|
| 5 | Flange Blind ASME B16.5 150LB RF FRG ASTM/ASME A/SA350 Gr.LF2 | 4 | FLB0CS07390400 | 1 | 6.80 |
| 6 | Gasket Spiral Wound Thk. 3.2 mm ASME B16.20 150LB RF GSK AISI 316 + GRAPHITE c/w INNER RING | 4 | GSW0GK11150400 | 1 | 0.24 |
| 7 | 90 Stud Bolt + 2 Heavy Nuts ASME B1.1 ASTM A193 Gr.B7 - A194 Gr.2H Hot dip galvanized | 5/8 | SB20BO04190300 | 8 | 2.00 |
| | SUPPORTS | | | | |
| 8 | /PS-02099.1 | 4 | | 1 | 0.67 |
| 9 | /PS-02101.1 | 4 | | 1 | 0.67 |
| 10 | /PS-02102.1 | 4 | | 1 | 0.67 |
| | | | TOTAL ERECTION WEIGHT | | 11.05 |
| | | | TOTAL WEIGHT | | 159.87 |

| REFERENCE DOCUMENTS | |
|---|---|
| 123A90-DDL-PP-RE-70001 | STRESS ANALYSIS REPORT |
| 123A90-DDL-PR-PID-80043 | P&ID |
| 123A90-DDL-MAT-SP-60003 | INSULATION SPECIFICATION |
| 123A90-DDL-MAT-SP-60006 | COATING & PAINTING SPEC. |
| 123A90-DDL-PP-00-72000 | PIPING SUPPORT BOOK |
| 123A90-DDL-PP-SP-70029 | PIPING MATERIAL CLASS |

SYMBOLS LEGEND:
BUTT WELD · THREADED · HEAT TRACING · SOCKET · PIPE SUPPORT · INSULATED

| NDT EXAMINATION | | | |
|---|---|---|---|
| NDT TYPE | % | NDT TYPE | % |
| RT | 10 | | 100 |
| INSPECTION CATEGORY | 2 | MT/PT | 10 |
| TESTING | | | |
| TEST FLUID | | TEST PRESS. [barg] | |
| N/A | | N/A | |
| PROCESS LINE DATA | | | |
| DESIGN TEMP. [°C] | | DESIGN PRESS. [barg] | |
| unset | 80 | | 3.5 |

| INSULATION & PAINTING | | |
|---|---|---|
| INS. TYPE | INS. THK. | INS. SURF. [m²] |
| N | | |
| PAINT SYS. | BASE RAL | PAINT. SURF. [m²] |
| 1 | RAL 9002 | 3.12 |
| HEAT TRACING | | |
| - | | |
| LINE DATA | | |
| STRESS SYS. | PED CAT. | PWHT |
| - | Art. 4, par. 3 | No |

| Revision Number | Date | Description | Prepared by | Checked by | Approved by |
|---|---|---|---|---|---|
| 02 | 29/09/25 | AS-BUILT (ASB) | SPS | CBO | CGI |
| 01 | 26/07/24 | ACCEPTED FOR CONSTRUCTION | MMA | CBO | DLO |
| 00 | 07/06/24 | ISSUE FOR REVIEW | MMA | CBO | DLO |

ROSETTI MARINO

# CROSSWIND

DWG TYTLE:

## 4"-DR-268-01CS-N

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK

SCALE N.A.

DRAWN SPS | CHECKED CBO | APPROVED CGI | DATE 29/09/25

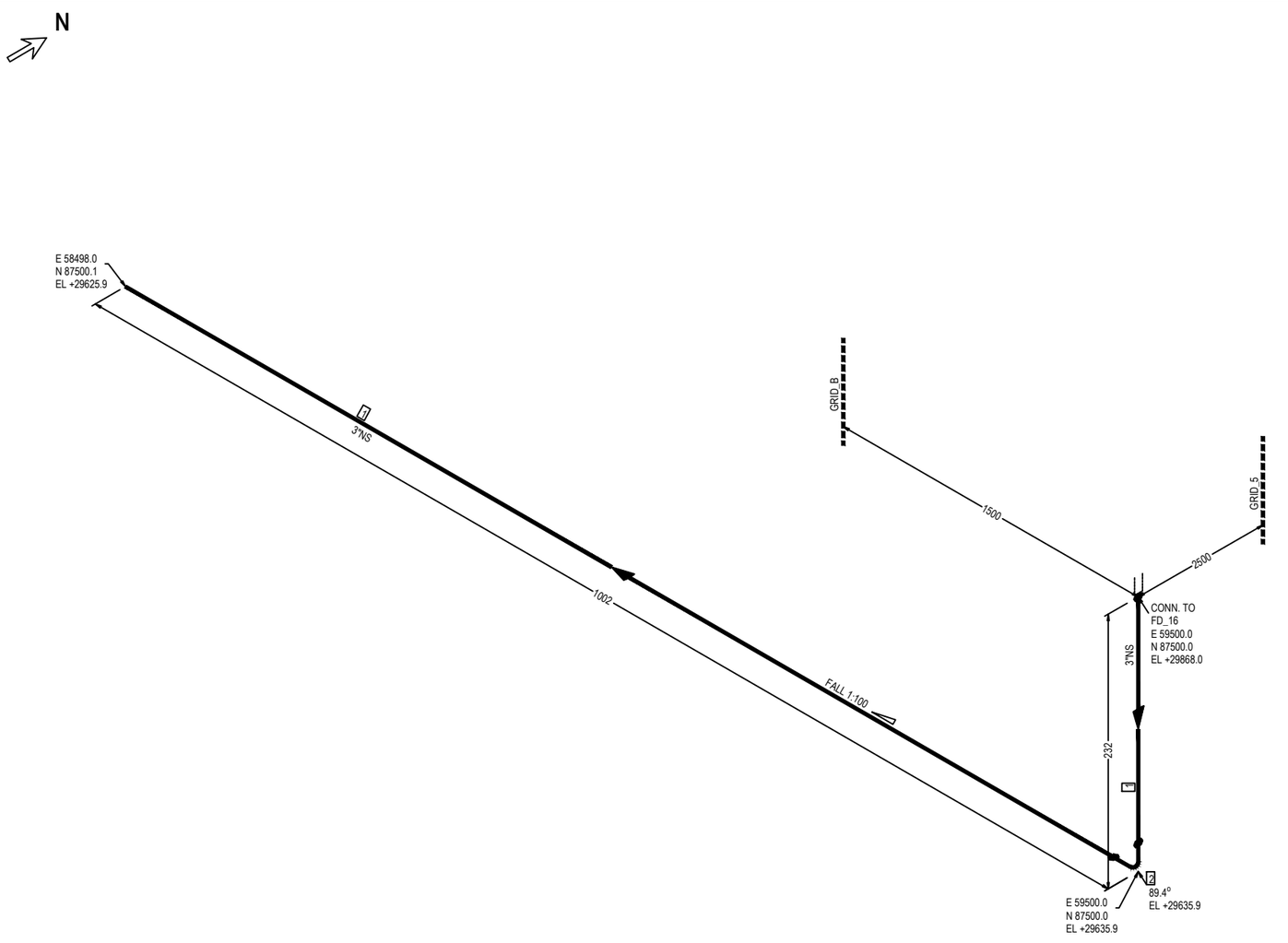
SIZE: A3

DRAWING NO. 123A90-DDL-PP-DI-71000_132

SHEET 1/1

REV. 02

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FABRICATION MATERIALS

| PT NO | COMPONENT DESCRIPTION | N.S. | ITEM CODE | Q.TY | WEIGHT |
|---|---|---|---|---|---|
| 1 | Pipe ASME B36.10M PE 5,49 SML ASTM/ASME A/SA333 Gr.6 | 3 | PIPECS03730300 | 1008MM | 11.39 |
| 2 | 90 Deg Elbow Long Radius ASME B16.9 BW 5,49 WRS ASTM/ASME A/SA420 Gr.WPL6 | 3 | E90RCS02830300 | 1 | 2.03 |
| | | | TOTAL FABRICATION WEIGHT | | 13.42 |

| REFERENCE DOCUMENTS | |
|---|---|
| 123A90-DDL-PP-RE-70001 | STRESS ANALYSIS REPORT |
| 123A90-DDL-PR-PID-80043 | P&ID |
| 123A90-DDL-MAT-SP-60003 | INSULATION SPECIFICATION |
| 123A90-DDL-MAT-SP-60006 | COATING & PAINTING SPEC. |
| 123A90-DDL-PP-00-72000 | PIPING SUPPORT BOOK |
| 123A90-DDL-PP-SP-70029 | PIPING MATERIAL CLASS |

SYMBOLS LEGEND:
BUTT WELD · THREADED · HEAT TRACING
SOCKET · PIPE SUPPORT · INSULATED

| NDT EXAMINATION | | | | INSULATION & PAINTING | | |
|---|---|---|---|---|---|---|
| NDT TYPE | % | NDT TYPE | % | INS. TYPE | INS. THK. | INS. SURF. (m²) |
| RT | 10 | | 100 | N | | |
| INSPECTION CATEGORY | 2 | MT/PT | 10 | PAINT SYS. | BASE RAL | PAINT. SURF. (m²) |
| TESTING | | | | 1 | RAL 9002 | 0.33 |
| TEST FLUID | | TEST PRESS. (barg) | | HEAT TRACING | | |
| N/A | | N/A | | - | | |
| PROCESS LINE DATA | | | | LINE DATA | | |
| DESIGN TEMP. (°C) | | DESIGN PRESS. (barg) | | STRESS SYS. | PED CAT. | PWHT |
| unset | 80 | | 3.5 | - | Art. 4, par. 3 | No |

| Revision Number | Date | Description | Prepared by | Checked by | Approved by |
|---|---|---|---|---|---|
| 02 | 29/09/25 | AS-BUILT (ASB) | SPS | CBO | CGI |
| 01 | 26/07/24 | ACCEPTED FOR CONSTRUCTION | MMA | CBO | DLO |
| 00 | 07/06/24 | ISSUE FOR REVIEW | MMA | CBO | DLO |

ROSETTI MARINO

# CROSSWIND

DWG TYTLE:

## 3"-DR-269-01CS-N

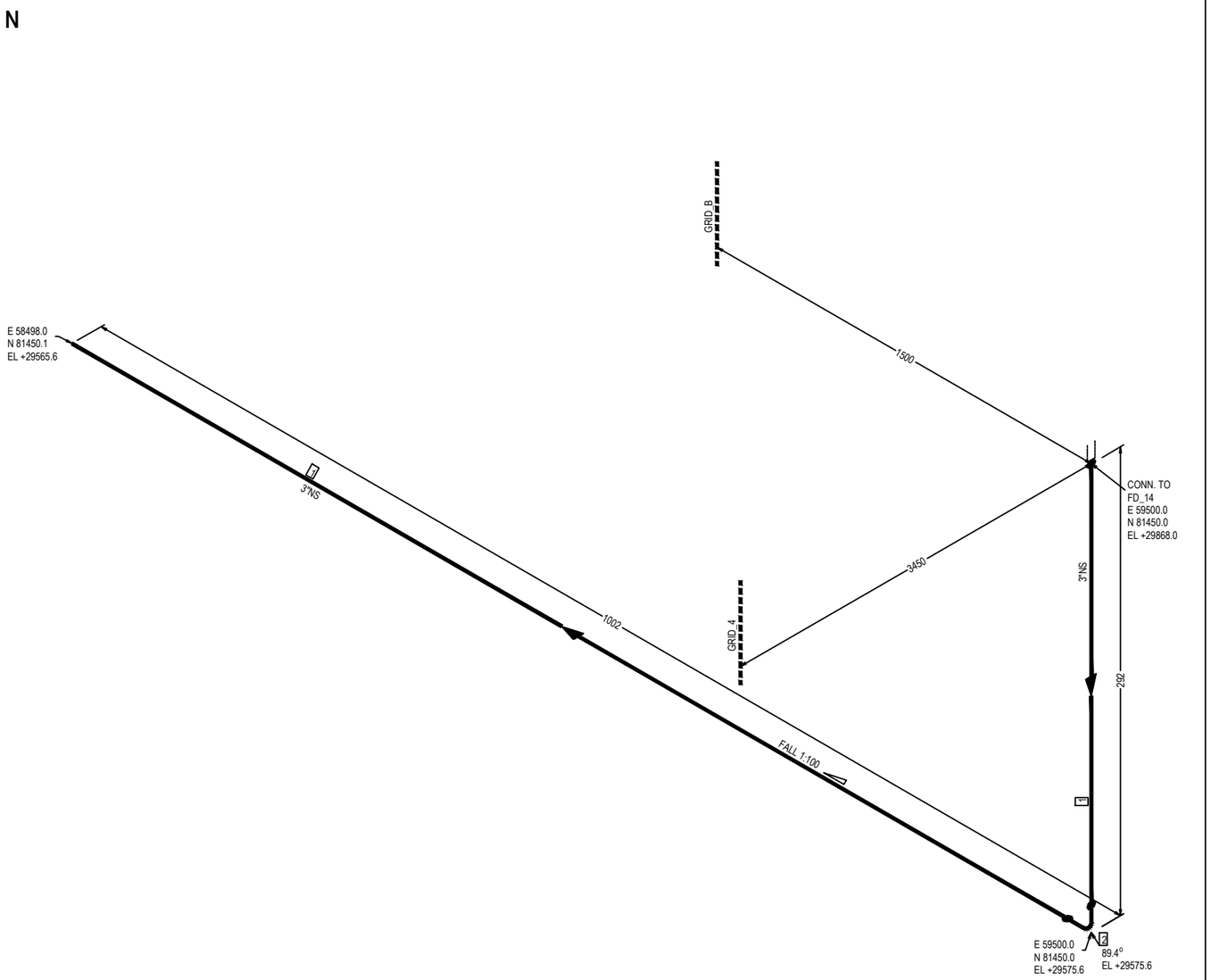
CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK

SCALE N.A.

DRAWN SPS | CHECKED CBO | APPROVED CGI | DATE 29/09/25

SIZE: A3 | DRAWING NO. 123A90-DDL-PP-DI-71000_133 | SHEET 1/1 | REV. 02

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FABRICATION MATERIALS

| PT NO | COMPONENT DESCRIPTION | N.S. | ITEM CODE | Q.TY | WEIGHT |
|---|---|---|---|---|---|
| 1 | Pipe ASME B36.10M PE 5,49 SML ASTM/ASME A/SA333 Gr.6 | 3 | PIPECS03730300 | 1069MM | 12.08 |
| 2 | 90 Deg Elbow Long Radius ASME B16.9 BW 5,49 WRS ASTM/ASME A/SA420 Gr.WPL6 | 3 | E90RCS02830300 | 1 | 2.03 |
| | | | TOTAL FABRICATION WEIGHT | | 14.11 |

| REFERENCE DOCUMENTS | |
|---|---|
| 123A90-DDL-PP-RE-70001 | STRESS ANALYSIS REPORT |
| 123A90-DDL-PR-PID-80043 | P&ID |
| 123A90-DDL-MAT-SP-60003 | INSULATION SPECIFICATION |
| 123A90-DDL-MAT-SP-60006 | COATING & PAINTING SPEC. |
| 123A90-DDL-PP-00-72000 | PIPING SUPPORT BOOK |
| 123A90-DDL-PP-SP-70029 | PIPING MATERIAL CLASS |

SYMBOLS LEGEND:
BUTT WELD · THREADED · HEAT TRACING
SOCKET · PIPE SUPPORT · INSULATED

| NDT EXAMINATION | | | |
|---|---|---|---|
| NDT TYPE | % | NDT TYPE | % |
| RT | 10 | | 100 |
| INSPECTION CATEGORY | 2 | MT/PT | 10 |
| TESTING | | | |
| TEST FLUID | | TEST PRESS. [barg] | |
| N/A | | N/A | |
| PROCESS LINE DATA | | | |
| DESIGN TEMP. [°C] | | DESIGN PRESS. [barg] | |
| unset | 80 | | 3.5 |

| INSULATION & PAINTING | | |
|---|---|---|
| INS. TYPE | INS. THK. | INS. SURF. [m²] |
| N | | |
| PAINT SYS. | BASE RAL | PAINT. SURF. [m²] |
| 1 | RAL 9002 | 0.35 |
| HEAT TRACING | | |
| - | | |
| LINE DATA | | |
| STRESS SYS. | PED CAT. | PWHT |
| - | Art. 4, par. 3 | No |

| Revision Number | Date | Description | Prepared by | Checked by | Approved by |
|---|---|---|---|---|---|
| 02 | 29/09/25 | AS-BUILT (ASB) | SPS | CBO | CGI |
| 01 | 26/07/24 | ACCEPTED FOR CONSTRUCTION | MMA | CBO | DLO |
| 00 | 07/06/24 | ISSUE FOR REVIEW | MMA | CBO | DLO |

ROSETTI MARINO

# CROSSWIND

DWG TYTLE:

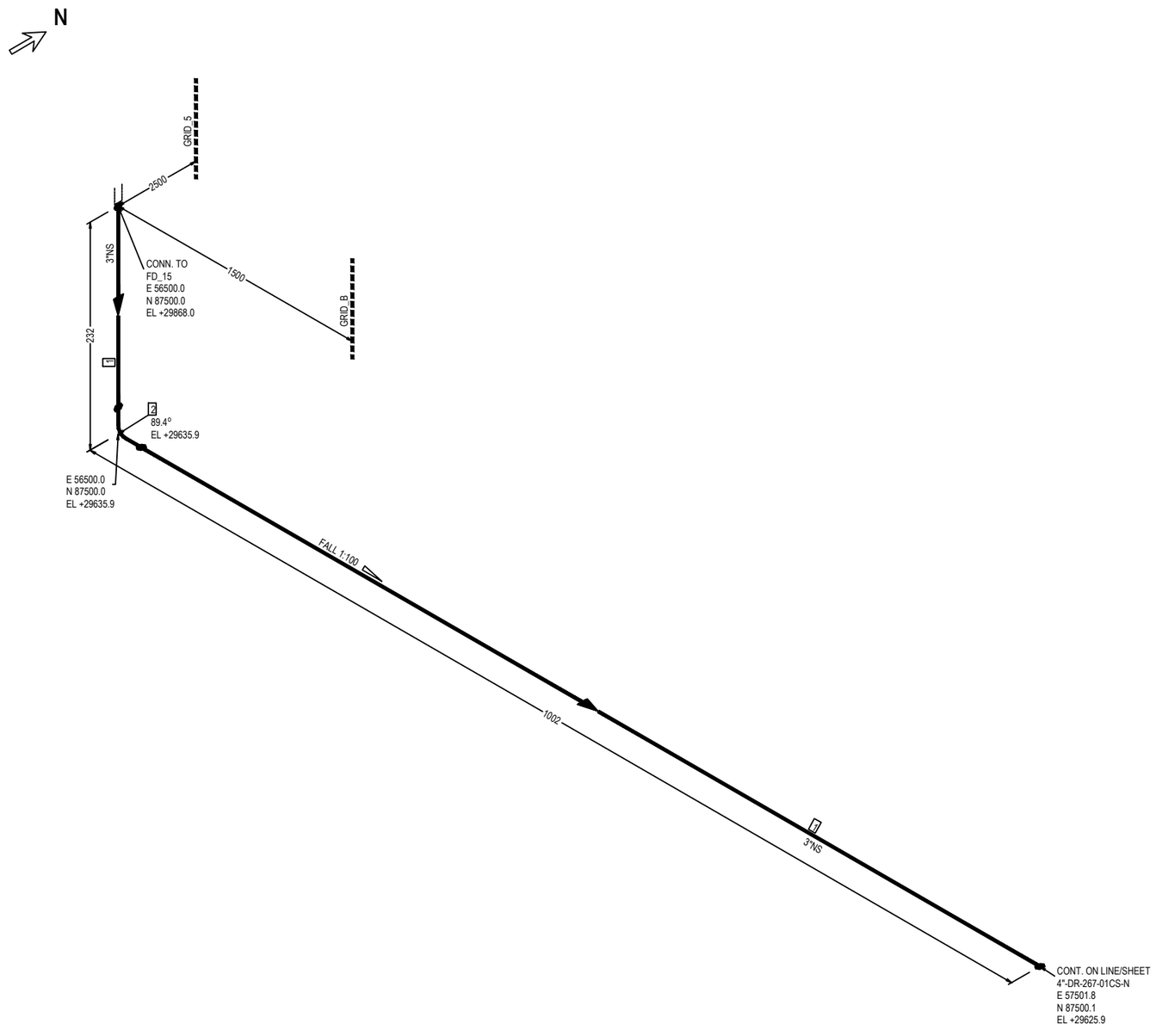
## 3"-DR-270-01CS-N

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK | SCALE N.A.

DRAWN SPS | CHECKED CBO | APPROVED CGI | DATE 29/09/25

SIZE: A3 | DRAWING NO. 123A90-DDL-PP-DI-71000_134 | SHEET 1/1 | REV. 02

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FABRICATION MATERIALS

| PT NO | COMPONENT DESCRIPTION | N.S. | ITEM CODE | Q.TY | WEIGHT |
|---|---|---|---|---|---|
| 1 | Pipe ASME B36.10M PE 5,49 SML ASTM/ASME A/SA333 Gr.6 | 3 | PIPECS03730300 | 1008MM | 11.39 |
| 2 | 90 Deg Elbow Long Radius ASME B16.9 BW 5,49 WRS ASTM/ASME A/SA420 Gr.WPL6 | 3 | E90RCS02830300 | 1 | 2.03 |
| | | | TOTAL FABRICATION WEIGHT | | 13.42 |

| REFERENCE DOCUMENTS | |
|---|---|
| 123A90-DDL-PP-RE-70001 | STRESS ANALYSIS REPORT |
| 123A90-DDL-PR-PID-80043 | P&ID |
| 123A90-DDL-MAT-SP-60003 | INSULATION SPECIFICATION |
| 123A90-DDL-MAT-SP-60006 | COATING & PAINTING SPEC. |
| 123A90-DDL-PP-00-72000 | PIPING SUPPORT BOOK |
| 123A90-DDL-PP-SP-70029 | PIPING MATERIAL CLASS |

SYMBOLS LEGEND:
BUTT WELD — THREADED — HEAT TRACING
SOCKET — PIPE SUPPORT — INSULATED

| NDT EXAMINATION | | | | INSULATION & PAINTING | | |
|---|---|---|---|---|---|---|
| NDT TYPE | % | NDT TYPE | % | INS. TYPE | INS. THK. | INS. SURF. (m²) |
| RT | 10 | | 100 | N | | |
| INSPECTION CATEGORY | 2 | MT/PT | 10 | PAINT SYS. | BASE RAL | PAINT. SURF. (m²) |
| TESTING | | | | 1 | RAL 9002 | 0.33 |
| TEST FLUID | | TEST PRESS. (barg) | | HEAT TRACING | | |
| N/A | | N/A | | - | | |
| PROCESS LINE DATA | | | | LINE DATA | | |
| DESIGN TEMP. (°C) | | DESIGN PRESS. (barg) | | STRESS SYS. | PED CAT. | PWHT |
| unset | 80 | | 3.5 | - | Art. 4, par. 3 | No |

| Revision Number | Date | Description | Prepared by | Checked by | Approved by |
|---|---|---|---|---|---|
| 02 | 29/09/25 | AS-BUILT (ASB) | SPS | CBO | CGI |
| 01 | 26/07/24 | ACCEPTED FOR CONSTRUCTION | MMA | CBO | DLO |
| 00 | 07/06/24 | ISSUE FOR REVIEW | MMA | CBO | DLO |

ROSETTI MARINO

# CROSSWIND

DWG TYTLE:

## 3"-DR-271-01CS-N

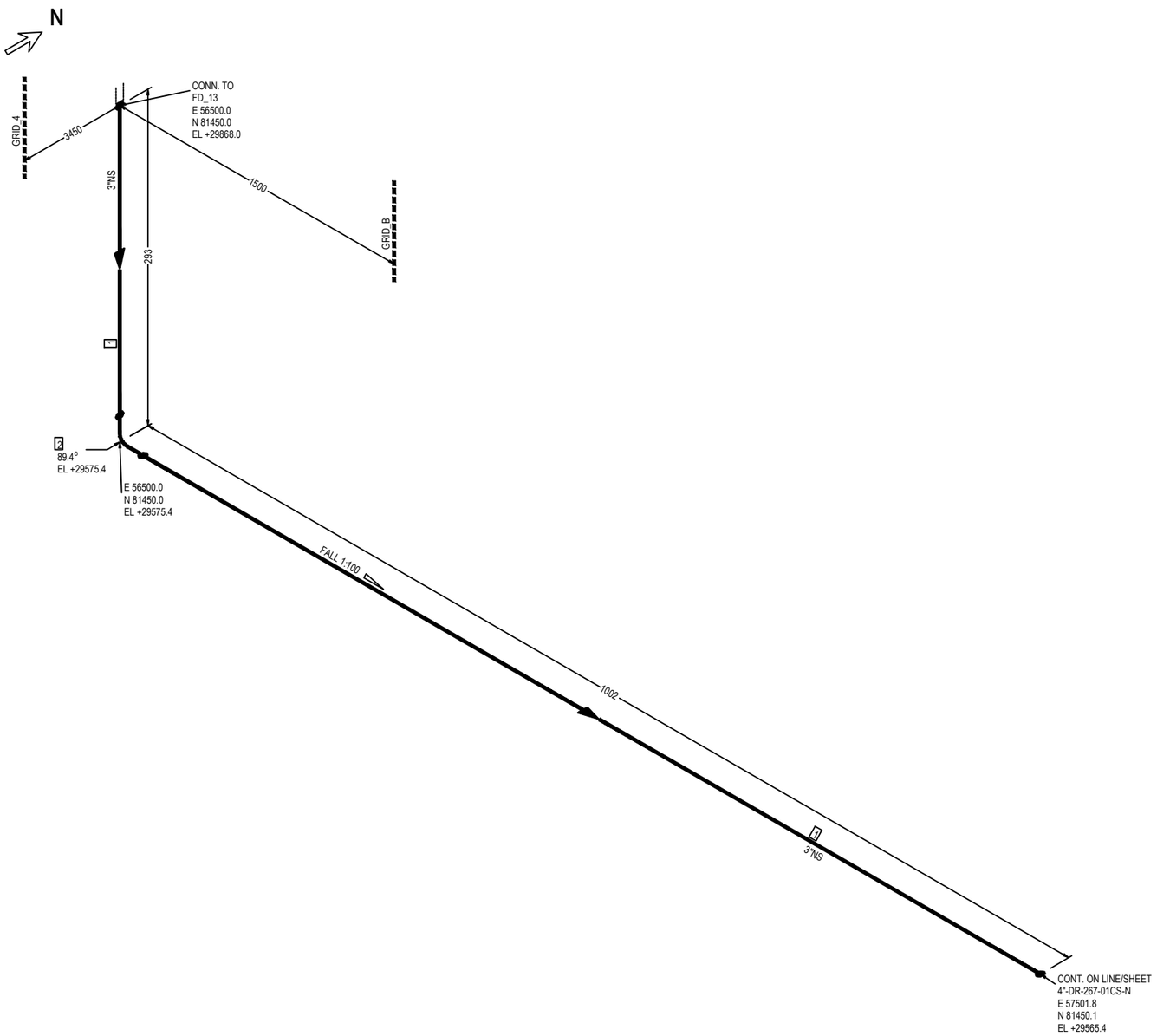
CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK

SCALE N.A.

DRAWN SPS | CHECKED CBO | APPROVED CGI | DATE 29/09/25

SIZE: A3 | DRAWING NO. 123A90-DDL-PP-DI-71000_135 | SHEET 1/1 | REV. 02

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FABRICATION MATERIALS

| PT NO | COMPONENT DESCRIPTION | N.S. | ITEM CODE | Q.TY | WEIGHT |
|---|---|---|---|---|---|
| 1 | Pipe ASME B36.10M PE 5,49 SML ASTM/ASME A/SA333 Gr.6 | 3 | PIPECS03730300 | 1069MM | 12.08 |
| 2 | 90 Deg Elbow Long Radius ASME B16.9 BW 5,49 WRS ASTM/ASME A/SA420 Gr.WPL6 | 3 | E90RCS02830300 | 1 | 2.03 |
| | | | TOTAL FABRICATION WEIGHT | | 14.11 |

| REFERENCE DOCUMENTS | |
|---|---|
| 123A90-DDL-PP-RE-70001 | STRESS ANALYSIS REPORT |
| 123A90-DDL-PR-PID-80043 | P&ID |
| 123A90-DDL-MAT-SP-60003 | INSULATION SPECIFICATION |
| 123A90-DDL-MAT-SP-60006 | COATING & PAINTING SPEC. |
| 123A90-DDL-PP-00-72000 | PIPING SUPPORT BOOK |
| 123A90-DDL-PP-SP-70029 | PIPING MATERIAL CLASS |

SYMBOLS LEGEND:
BUTT WELD · THREADED · HEAT TRACING
SOCKET · PIPE SUPPORT · INSULATED

| NDT EXAMINATION | | | |
|---|---|---|---|
| NDT TYPE | % | NDT TYPE | % |
| RT | 10 | | 100 |
| INSPECTION CATEGORY | 2 | MT/PT | 10 |
| TESTING | | | |
| TEST FLUID | | TEST PRESS. [barg] | |
| N/A | | N/A | |
| PROCESS LINE DATA | | | |
| DESIGN TEMP. [°C] | | DESIGN PRESS. [barg] | |
| unset | 80 | | 3.5 |

| INSULATION & PAINTING | | |
|---|---|---|
| INS. TYPE | INS. THK. | INS. SURF. [m²] |
| N | | |
| PAINT SYS. | BASE RAL | PAINT. SURF. [m²] |
| 1 | RAL 9002 | 0.35 |
| HEAT TRACING | | |
| - | | |
| LINE DATA | | |
| STRESS SYS. | PED CAT. | PWHT |
| - | Art. 4, par. 3 | No |

| Revision Number | Date | Description | Prepared by | Checked by | Approved by |
|---|---|---|---|---|---|
| 02 | 29/09/25 | AS-BUILT (ASB) | SPS | CBO | CGI |
| 01 | 26/07/24 | ACCEPTED FOR CONSTRUCTION | MMA | CBO | DLO |
| 00 | 07/06/24 | ISSUE FOR REVIEW | MMA | CBO | DLO |

ROSETTI MARINO

# CROSSWIND

DWG TYTLE:

## 3"-DR-272-01CS-N

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK

SCALE N.A.

DRAWN SPS | CHECKED CBO | APPROVED CGI | DATE 29/09/25

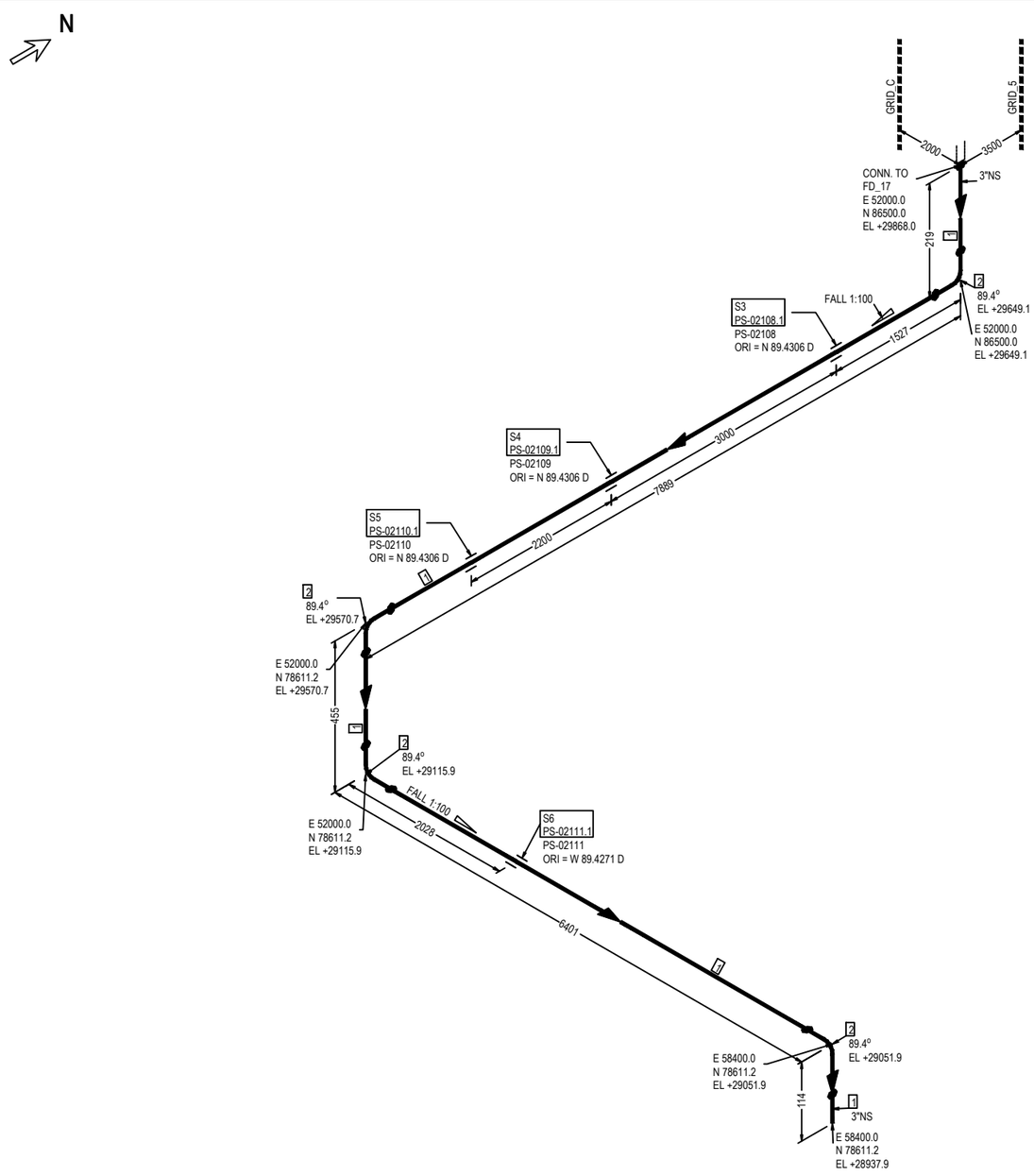
SIZE: A3

DRAWING NO. 123A90-DDL-PP-DI-71000_136

SHEET 1/1

REV. 02

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FABRICATION MATERIALS

| PT NO | COMPONENT DESCRIPTION | N.S. | ITEM CODE | Q.TY | WEIGHT |
|---|---|---|---|---|---|
| 1 | Pipe ASME B36.10M PE 5,49 SML ASTM/ASME A/SA333 Gr.6 | 3 | PIPECS03730300 | 14174MM | 160.17 |
| 2 | 90 Deg Elbow Long Radius ASME B16.9 BW 5,49 WRS ASTM/ASME A/SA420 Gr.WPL6 | 3 | E90RCS02830300 | 4 | 8.12 |
| | | | TOTAL FABRICATION WEIGHT | | 168.29 |

ERECTION MATERIALS

| PT NO | COMPONENT DESCRIPTION | N.S. | ITEM CODE | Q.TY | WEIGHT |
|---|---|---|---|---|---|
| | SUPPORTS | | | | |
| 3 | /PS-02108.1 | 3 | | 1 | 0.55 |
| 4 | /PS-02109.1 | 3 | | 1 | 0.55 |
| 5 | /PS-02110.1 | 3 | | 1 | 0.55 |
| 6 | /PS-02111.1 | 3 | | 1 | 0.55 |
| | | | TOTAL ERECTION WEIGHT | | 2.20 |
| | | | TOTAL WEIGHT | | 170.49 |

| REFERENCE DOCUMENTS | |
|---|---|
| 123A90-DDL-PP-RE-70001 | STRESS ANALYSIS REPORT |
| 123A90-DDL-PR-PID-80043 | P&ID |
| 123A90-DDL-MAT-SP-60003 | INSULATION SPECIFICATION |
| 123A90-DDL-MAT-SP-60006 | COATING & PAINTING SPEC. |
| 123A90-DDL-PP-00-72000 | PIPING SUPPORT BOOK |
| 123A90-DDL-PP-SP-70029 | PIPING MATERIAL CLASS |

SYMBOLS LEGEND:
BUTT WELD — THREADED — HEAT TRACING
SOCKET — PIPE SUPPORT — INSULATED

| NDT EXAMINATION | | | | |
|---|---|---|---|---|
| NDT TYPE | % | NDT TYPE | % | |
| RT | 10 | | 100 | |
| INSPECTION CATEGORY | 2 | MT/PT | 10 | |
| TESTING | | | | |
| TEST FLUID | | TEST PRESS.[barg] | | |
| N/A | | N/A | | |
| PROCESS LINE DATA | | | | |
| DESIGN TEMP. [°C] | | DESIGN PRESS.[barg] | | |
| unset | 80 | | 3.5 | |

| INSULATION & PAINTING | | |
|---|---|---|
| INS. TYPE | INS. THK. | INS. SURF. [m²] |
| N | | |
| PAINT SYS. | BASE RAL | PAINT. SURF. [m²] |
| 1 | RAL 9002 | 4.16 |
| HEAT TRACING | | |
| - | | |
| LINE DATA | | |
| STRESS SYS. | PED CAT. | PWHT |
| - | Art. 4, par. 3 | No |

| Revision Number | Date | Description | Prepared by | Checked by | Approved by |
|---|---|---|---|---|---|
| 02 | 29/09/25 | AS-BUILT (ASB) | SPS | CBO | CGI |
| 01 | 26/07/24 | ACCEPTED FOR CONSTRUCTION | MMA | CBO | DLO |
| 00 | 07/06/24 | ISSUE FOR REVIEW | MMA | CBO | DLO |

ROSETTI MARINO

CROSSWIND

DWG TYTLE:

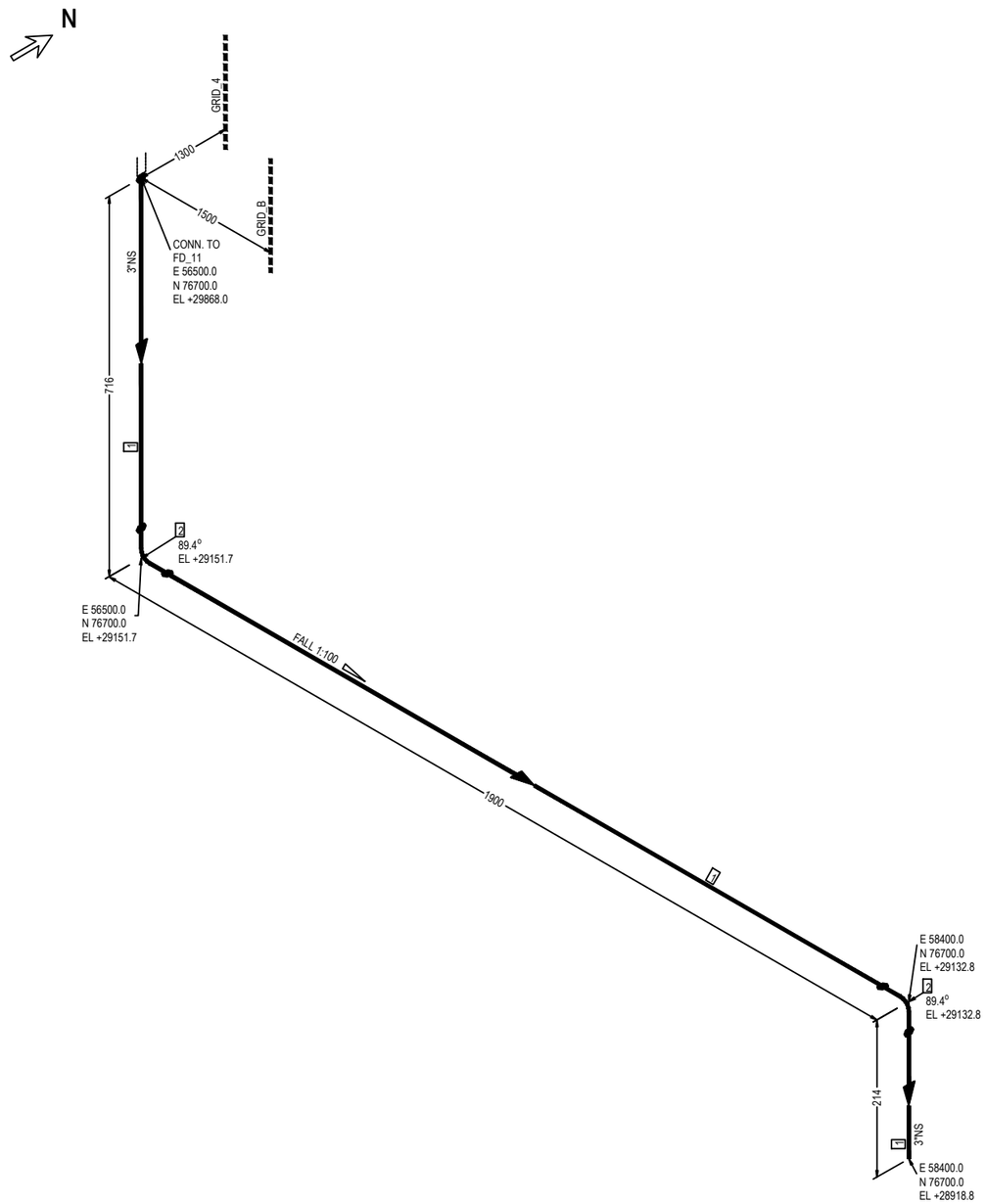
# 3"-DR-273-01CS-N

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK | SCALE N.A.

DRAWN SPS | CHECKED CBO | APPROVED CGI | DATE 29/09/25

SIZE: A3 | DRAWING NO. 123A90-DDL-PP-DI-71000_137 | SHEET 1/1 | REV. 02

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FABRICATION MATERIALS

| PT NO | COMPONENT DESCRIPTION | N.S. | ITEM CODE | Q.TY | WEIGHT |
|---|---|---|---|---|---|
| 1 | Pipe ASME B36.10M PE 5,49 SML ASTM/ASME A/SA333 Gr.6 | 3 | PIPECS03730300 | 2378MM | 26.87 |
| 2 | 90 Deg Elbow Long Radius ASME B16.9 BW 5,49 WRS ASTM/ASME A/SA420 Gr.WPL6 | 3 | E90RCS02830300 | 2 | 4.06 |
| | | | TOTAL FABRICATION WEIGHT | | 30.93 |

| REFERENCE DOCUMENTS | |
|---|---|
| 123A90-DDL-PP-RE-70001 | STRESS ANALYSIS REPORT |
| 123A90-DDL-PR-PID-80043 | P&ID |
| 123A90-DDL-MAT-SP-60003 | INSULATION SPECIFICATION |
| 123A90-DDL-MAT-SP-60006 | COATING & PAINTING SPEC. |
| 123A90-DDL-PP-00-72000 | PIPING SUPPORT BOOK |
| 123A90-DDL-PP-SP-70029 | PIPING MATERIAL CLASS |

| NDT EXAMINATION | | | |
|---|---|---|---|
| NDT TYPE | % | NDT TYPE | % |
| RT | 10 | | 100 |
| INSPECTION CATEGORY | 2 | MT/PT | 10 |
| TESTING | | | |
| TEST FLUID | | TEST PRESS. (barg) | |
| N/A | | N/A | |
| PROCESS LINE DATA | | | |
| DESIGN TEMP. (°C) | | DESIGN PRESS. (barg) | |
| unset | 80 | | 3.5 |

| INSULATION & PAINTING | | |
|---|---|---|
| INS. TYPE | INS. THK. | INS. SURF. (m²) |
| N | | |
| PAINT SYS. | BASE RAL | PAINT. SURF. (m²) |
| 1 | RAL 9002 | 0.76 |
| HEAT TRACING | | |
| - | | |
| LINE DATA | | |
| STRESS SYS. | PED CAT. | PWHT |
| - | Art. 4, par. 3 | No |

SYMBOLS LEGEND:
BUTT WELD · THREADED · HEAT TRACING · SOCKET · PIPE SUPPORT · INSULATED

| Revision Number | Date | Description | Prepared by | Checked by | Approved by |
|---|---|---|---|---|---|
| 02 | 29/09/25 | AS-BUILT (ASB) | SPS | CBO | CGI |
| 01 | 26/07/24 | ACCEPTED FOR CONSTRUCTION | MMA | CBO | DLO |
| 00 | 07/06/24 | ISSUE FOR REVIEW | MMA | CBO | DLO |

ROSETTI MARINO

# CROSSWIND

DWG TYTLE:

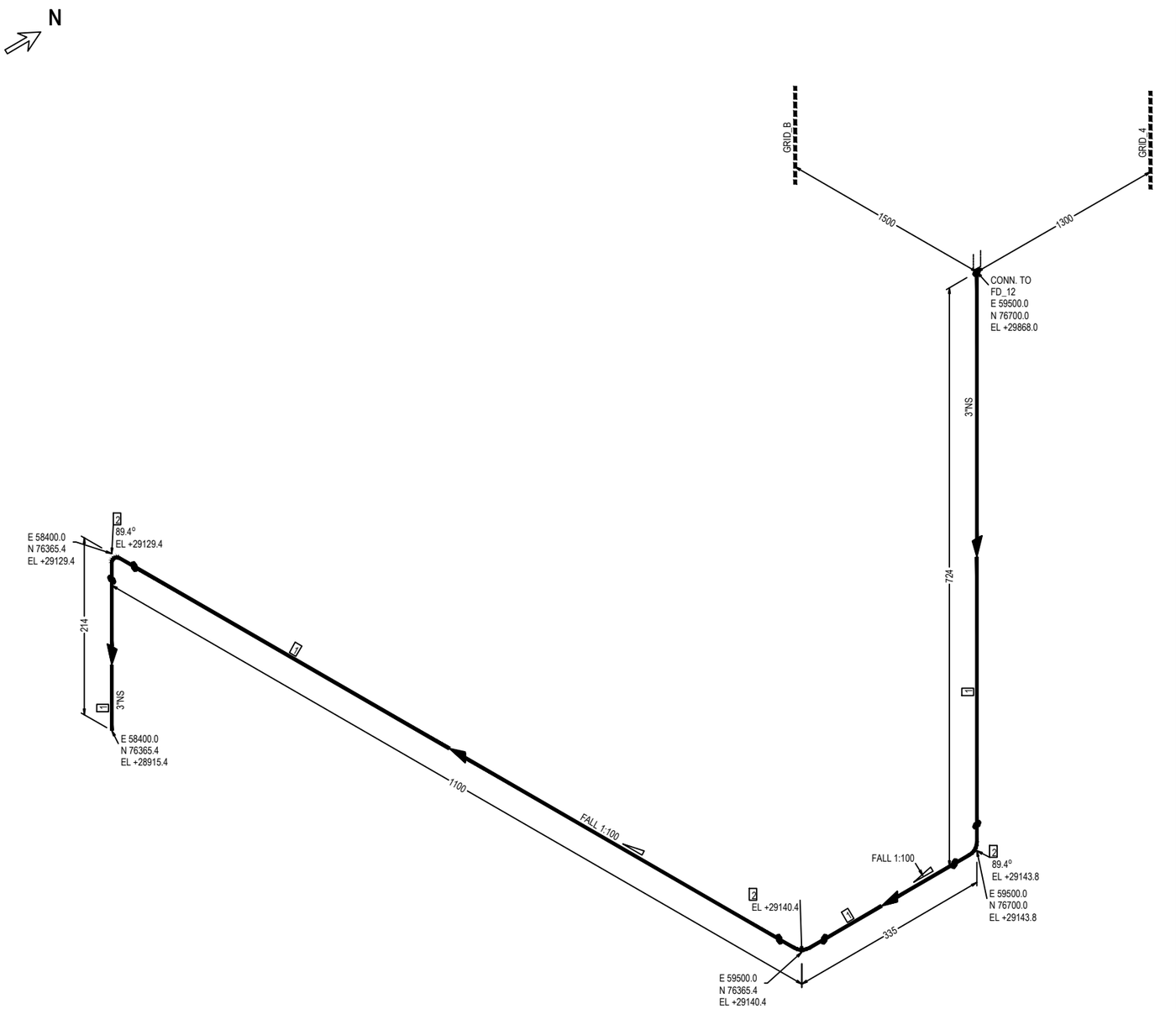
## 3"-DR-274-01CS-N

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK | SCALE N.A.

DRAWN SPS | CHECKED CBO | APPROVED CGI | DATE 29/09/25

SIZE: A3 | DRAWING NO. 123A90-DDL-PP-DI-71000_138 | SHEET 1/1 | REV. 02

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FABRICATION MATERIALS

| PT NO | COMPONENT DESCRIPTION | N.S. | ITEM CODE | Q.TY | WEIGHT |
|---|---|---|---|---|---|
| 1 | Pipe ASME B36.10M PE 5,49 SML ASTM/ASME A/SA333 Gr.6 | 3 | PIPECS03730300 | 1694MM | 19.14 |
| 2 | 90 Deg Elbow Long Radius ASME B16.9 BW 5,49 WRS ASTM/ASME A/SA420 Gr.WPL6 | 3 | E90RCS02830300 | 3 | 6.09 |
| | | | TOTAL FABRICATION WEIGHT | | 25.23 |

| REFERENCE DOCUMENTS | |
|---|---|
| 123A90-DDL-PP-RE-70001 | STRESS ANALYSIS REPORT |
| 123A90-DDL-PR-PID-80043 | P&ID |
| 123A90-DDL-MAT-SP-60003 | INSULATION SPECIFICATION |
| 123A90-DDL-MAT-SP-60006 | COATING & PAINTING SPEC. |
| 123A90-DDL-PP-00-72000 | PIPING SUPPORT BOOK |
| 123A90-DDL-PP-SP-70029 | PIPING MATERIAL CLASS |

SYMBOLS LEGEND:
BUTT WELD · THREADED · HEAT TRACING · SOCKET · PIPE SUPPORT · INSULATED

| NDT EXAMINATION | | | |
|---|---|---|---|
| NDT TYPE | % | NDT TYPE | % |
| RT | 10 | | 100 |
| INSPECTION CATEGORY | 2 | MT/PT | 10 |
| TESTING | | | |
| TEST FLUID | | TEST PRESS. (barg) | |
| N/A | | N/A | |

| PROCESS LINE DATA | | | |
|---|---|---|---|
| DESIGN TEMP. (°C) | | DESIGN PRESS. (barg) | |
| unset | 80 | | 3.5 |

| INSULATION & PAINTING | | |
|---|---|---|
| INS. TYPE | INS. THK. | INS. SURF. (m²) |
| N | | |
| PAINT SYS. | BASE RAL | PAINT. SURF. (m²) |
| 1 | RAL 9002 | 0.62 |
| HEAT TRACING | | |
| - | | |

| LINE DATA | | |
|---|---|---|
| STRESS SYS. | PED CAT. | PWHT |
| - | Art. 4, par. 3 | No |

| Revision Number | Date | Description | Prepared by | Checked by | Approved by |
|---|---|---|---|---|---|
| 02 | 29/09/25 | AS-BUILT (ASB) | SPS | CBO | CGI |
| 01 | 26/07/24 | ACCEPTED FOR CONSTRUCTION | MMA | CBO | DLO |
| 00 | 07/06/24 | ISSUE FOR REVIEW | MMA | CBO | DLO |

ROSETTI MARINO

# CROSSWIND

DWG TYTLE:

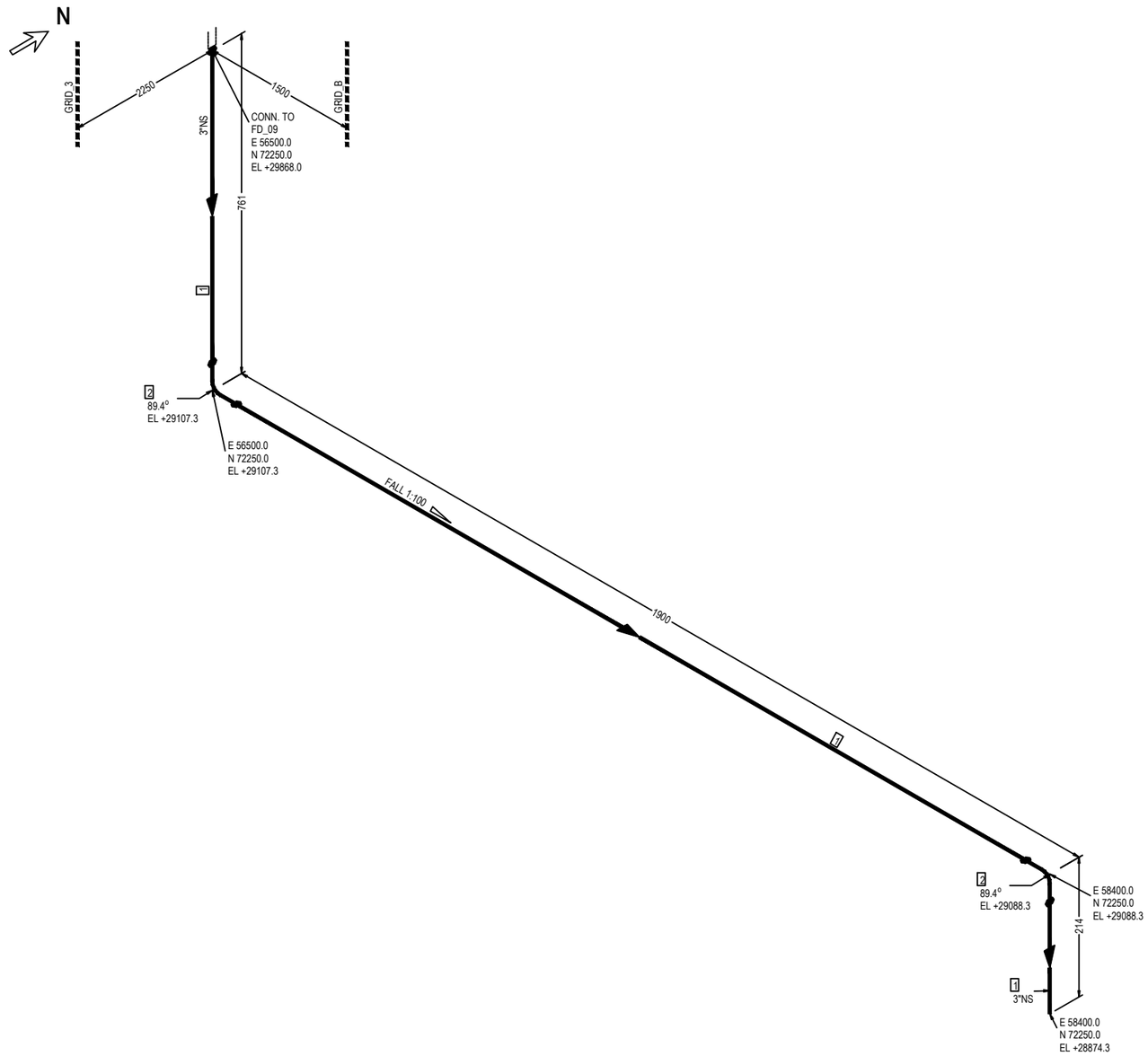
## 3"-DR-275-01CS-N

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK | SCALE N.A.

DRAWN SPS | CHECKED CBO | APPROVED CGI | DATE 29/09/25

SIZE: A3 | DRAWING NO. 123A90-DDL-PP-DI-71000_139 | SHEET 1/1 | REV. 02

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FABRICATION MATERIALS

| PT NO | COMPONENT DESCRIPTION | N.S. | ITEM CODE | Q.TY | WEIGHT |
|---|---|---|---|---|---|
| 1 | Pipe ASME B36.10M PE 5,49 SML ASTM/ASME A/SA333 Gr.6 | 3 | PIPECS03730300 | 2423MM | 27.38 |
| 2 | 90 Deg Elbow Long Radius ASME B16.9 BW 5,49 WRS ASTM/ASME A/SA420 Gr.WPL6 | 3 | E90RCS02830300 | 2 | 4.06 |
| | | | TOTAL FABRICATION WEIGHT | | 31.44 |

| REFERENCE DOCUMENTS | |
|---|---|
| 123A90-DDL-PP-RE-70001 | STRESS ANALYSIS REPORT |
| 123A90-DDL-PR-PID-80043 | P&ID |
| 123A90-DDL-MAT-SP-60003 | INSULATION SPECIFICATION |
| 123A90-DDL-MAT-SP-60006 | COATING & PAINTING SPEC. |
| 123A90-DDL-PP-00-72000 | PIPING SUPPORT BOOK |
| 123A90-DDL-PP-SP-70029 | PIPING MATERIAL CLASS |

SYMBOLS LEGEND:
BUTT WELD — THREADED — HEAT TRACING
SOCKET — PIPE SUPPORT — INSULATED

| NDT EXAMINATION | | | | INSULATION & PAINTING | | |
|---|---|---|---|---|---|---|
| NDT TYPE | % | NDT TYPE | % | INS. TYPE | INS. THK. | INS. SURF. (m²) |
| RT | 10 | | 100 | N | | |
| INSPECTION CATEGORY | 2 | MT/PT | 10 | PAINT SYS. | BASE RAL | PAINT. SURF. (m²) |
| TESTING | | | | 1 | RAL 9002 | 0.78 |
| TEST FLUID | | TEST PRESS. (barg) | | HEAT TRACING | | |
| N/A | | N/A | | - | | |
| PROCESS LINE DATA | | | | LINE DATA | | |
| DESIGN TEMP. (°C) | | DESIGN PRESS. (barg) | | STRESS SYS. | PED CAT. | PWHT |
| unset | 80 | | 3.5 | - | Art. 4, par. 3 | No |

| Revision Number | Date | Description | Prepared by | Checked by | Approved by |
|---|---|---|---|---|---|
| 02 | 29/09/25 | AS-BUILT (ASB) | SPS | CBO | CGI |
| 01 | 26/07/24 | ACCEPTED FOR CONSTRUCTION | MMA | CBO | DLO |
| 00 | 07/06/24 | ISSUE FOR REVIEW | MMA | CBO | DLO |

ROSETTI MARINO

# CROSSWIND

DWG TYTLE:

## 3"-DR-276-01CS-N

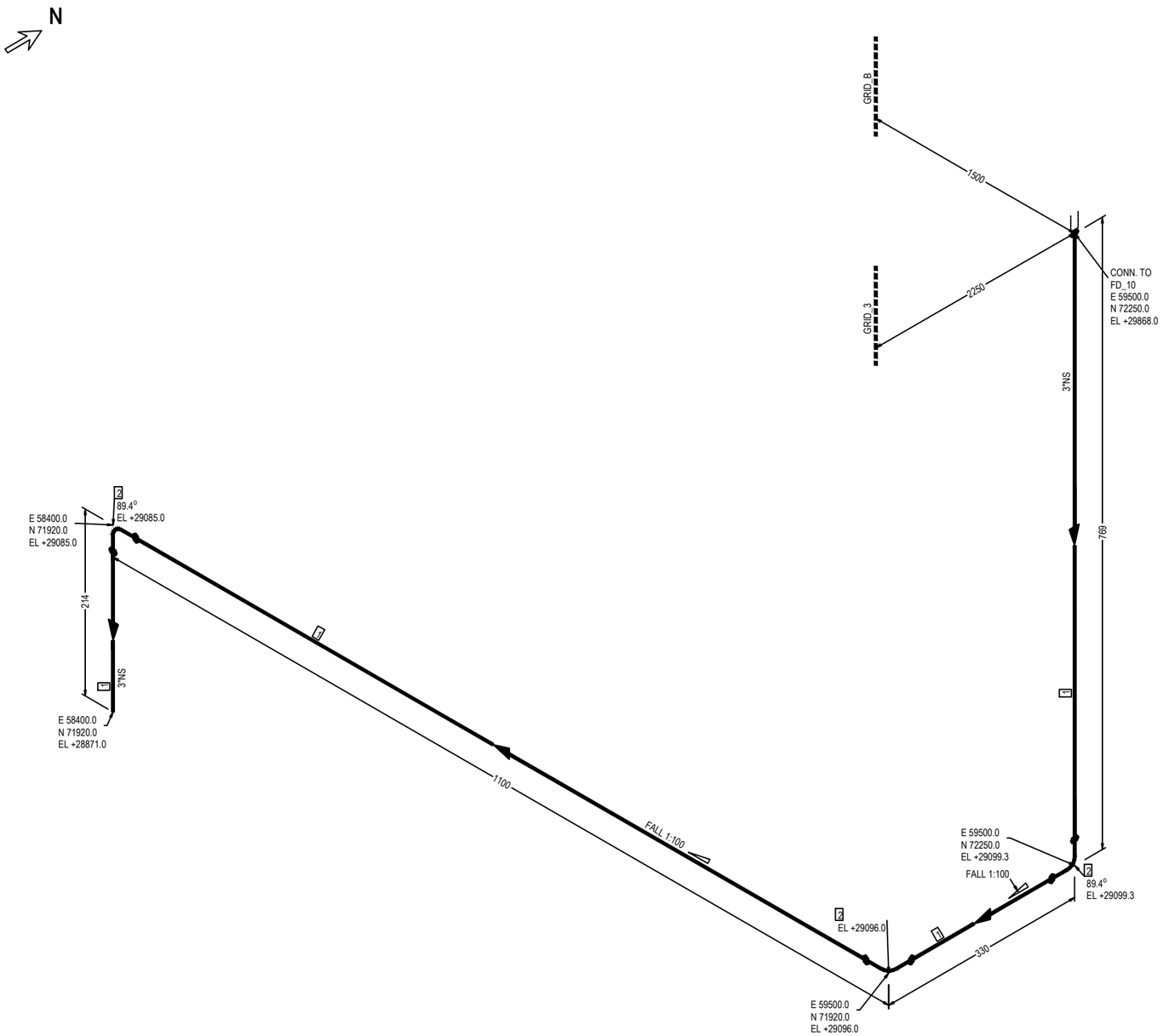
CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK

SCALE N.A.

DRAWN SPS | CHECKED CBO | APPROVED CGI | DATE 29/09/25

SIZE: A3 | DRAWING NO. 123A90-DDL-PP-DI-71000_140 | SHEET 1/1 | REV. 02

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FABRICATION MATERIALS

| PT NO | COMPONENT DESCRIPTION | N.S. | ITEM CODE | Q.TY | WEIGHT |
|---|---|---|---|---|---|
| 1 | Pipe ASME B36.10M PE 5,49 SML ASTM/ASME A/SA333 Gr.6 | 3 | PIPECS03730300 | 1733MM | 19.58 |
| 2 | 90 Deg Elbow Long Radius ASME B16.9 BW 5,49 WRS ASTM/ASME A/SA420 Gr.WPL6 | 3 | E90RCS02830300 | 3 | 6.09 |
| | | | TOTAL FABRICATION WEIGHT | | 25.67 |

| REFERENCE DOCUMENTS | |
|---|---|
| 123A90-DDL-PP-RE-70001 | STRESS ANALYSIS REPORT |
| 123A90-DDL-PR-PID-80043 | P&ID |
| 123A90-DDL-MAT-SP-60003 | INSULATION SPECIFICATION |
| 123A90-DDL-MAT-SP-60006 | COATING & PAINTING SPEC. |
| 123A90-DDL-PP-00-72000 | PIPING SUPPORT BOOK |
| 123A90-DDL-PP-SP-70029 | PIPING MATERIAL CLASS |

SYMBOLS LEGEND:
BUTT WELD · THREADED · HEAT TRACING
SOCKET · PIPE SUPPORT · INSULATED

| NDT EXAMINATION | | | |
|---|---|---|---|
| NDT TYPE | % | NDT TYPE | % |
| RT | 10 | | 100 |
| INSPECTION CATEGORY | 2 | MT/PT | 10 |
| TESTING | | | |
| TEST FLUID | | TEST PRESS. [barg] | |
| N/A | | N/A | |

| PROCESS LINE DATA | | | |
|---|---|---|---|
| DESIGN TEMP. [°C] | | DESIGN PRESS. [barg] | |
| unset | 80 | | 3.5 |

| INSULATION & PAINTING | | |
|---|---|---|
| INS. TYPE | INS. THK. | INS. SURF. [m²] |
| N | | |
| PAINT SYS. | BASE RAL | PAINT. SURF. [m²] |
| 1 | RAL 9002 | 0.63 |
| HEAT TRACING | | |
| - | | |

| LINE DATA | | |
|---|---|---|
| STRESS SYS. | PED CAT. | PWHT |
| - | Art. 4, par. 3 | No |

| Revision Number | Date | Description | Prepared by | Checked by | Approved by |
|---|---|---|---|---|---|
| 02 | 29/09/25 | AS-BUILT (ASB) | SPS | CBO | CGI |
| 01 | 26/07/24 | ACCEPTED FOR CONSTRUCTION | MMA | CBO | DLO |
| 00 | 07/06/24 | ISSUE FOR REVIEW | MMA | CBO | DLO |

ROSETTI MARINO

# CROSSWIND

DWG TYTLE:

## 3"-DR-277-01CS-N

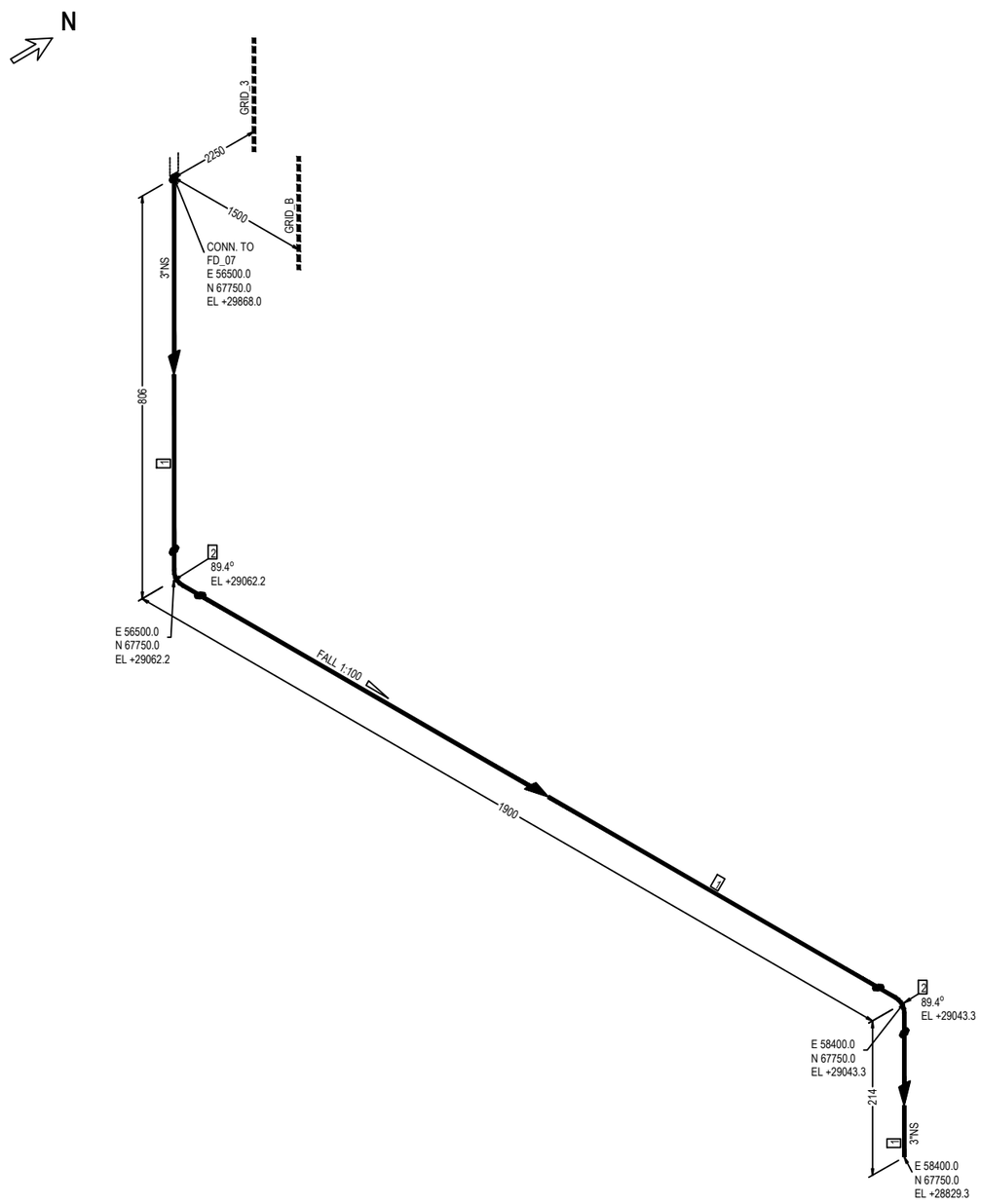
CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK

SCALE N.A.

DRAWN SPS | CHECKED CBO | APPROVED CGI | DATE 29/09/25

SIZE: A3 | DRAWING NO. 123A90-DDL-PP-DI-71000_141 | SHEET 1/1 | REV. 02

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FABRICATION MATERIALS

| PT NO | COMPONENT DESCRIPTION | N.S. | ITEM CODE | Q.TY | WEIGHT |
|---|---|---|---|---|---|
| 1 | Pipe ASME B36.10M PE 5,49 SML ASTM/ASME A/SA333 Gr.6 | 3 | PIPECS03730300 | 2468MM | 27.89 |
| 2 | 90 Deg Elbow Long Radius ASME B16.9 BW 5,49 WRS ASTM/ASME A/SA420 Gr.WPL6 | 3 | E90RCS02830300 | 2 | 4.06 |
| | | | TOTAL FABRICATION WEIGHT | | 31.95 |

| REFERENCE DOCUMENTS | |
|---|---|
| 123A90-DDL-PP-RE-70001 | STRESS ANALYSIS REPORT |
| 123A90-DDL-PR-PID-80043 | P&ID |
| 123A90-DDL-MAT-SP-60003 | INSULATION SPECIFICATION |
| 123A90-DDL-MAT-SP-60006 | COATING & PAINTING SPEC. |
| 123A90-DDL-PP-00-72000 | PIPING SUPPORT BOOK |
| 123A90-DDL-PP-SP-70029 | PIPING MATERIAL CLASS |

SYMBOLS LEGEND:
BUTT WELD — THREADED — HEAT TRACING
SOCKET — PIPE SUPPORT — INSULATED

| NDT EXAMINATION | | | | INSULATION & PAINTING | | |
|---|---|---|---|---|---|---|
| NDT TYPE | % | NDT TYPE | % | INS. TYPE | INS. THK. | INS. SURF. (m²) |
| RT | 10 | | 100 | N | | |
| INSPECTION CATEGORY | 2 | MT/PT | 10 | PAINT SYS. | BASE RAL | PAINT. SURF. (m²) |
| TESTING | | | | 1 | RAL 9002 | 0.79 |
| TEST FLUID | | TEST PRESS. (barg) | | HEAT TRACING | | |
| N/A | | N/A | | - | | |

| PROCESS LINE DATA | | | | LINE DATA | | |
|---|---|---|---|---|---|---|
| DESIGN TEMP. (°C) | | DESIGN PRESS. (barg) | | STRESS SYS. | PED CAT. | PWHT |
| unset | 80 | | 3.5 | - | Art. 4, par. 3 | No |

| Revision Number | Date | Description | Prepared by | Checked by | Approved by |
|---|---|---|---|---|---|
| 02 | 29/09/25 | AS-BUILT (ASB) | SPS | CBO | CGI |
| 01 | 26/07/24 | ACCEPTED FOR CONSTRUCTION | MMA | CBO | DLO |
| 00 | 07/06/24 | ISSUE FOR REVIEW | MMA | CBO | DLO |

ROSETTI MARINO

# CROSSWIND

DWG TYTLE:

## 3"-DR-278-01CS-N

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK

SCALE N.A.

DRAWN SPS | CHECKED CBO | APPROVED CGI | DATE 29/09/25

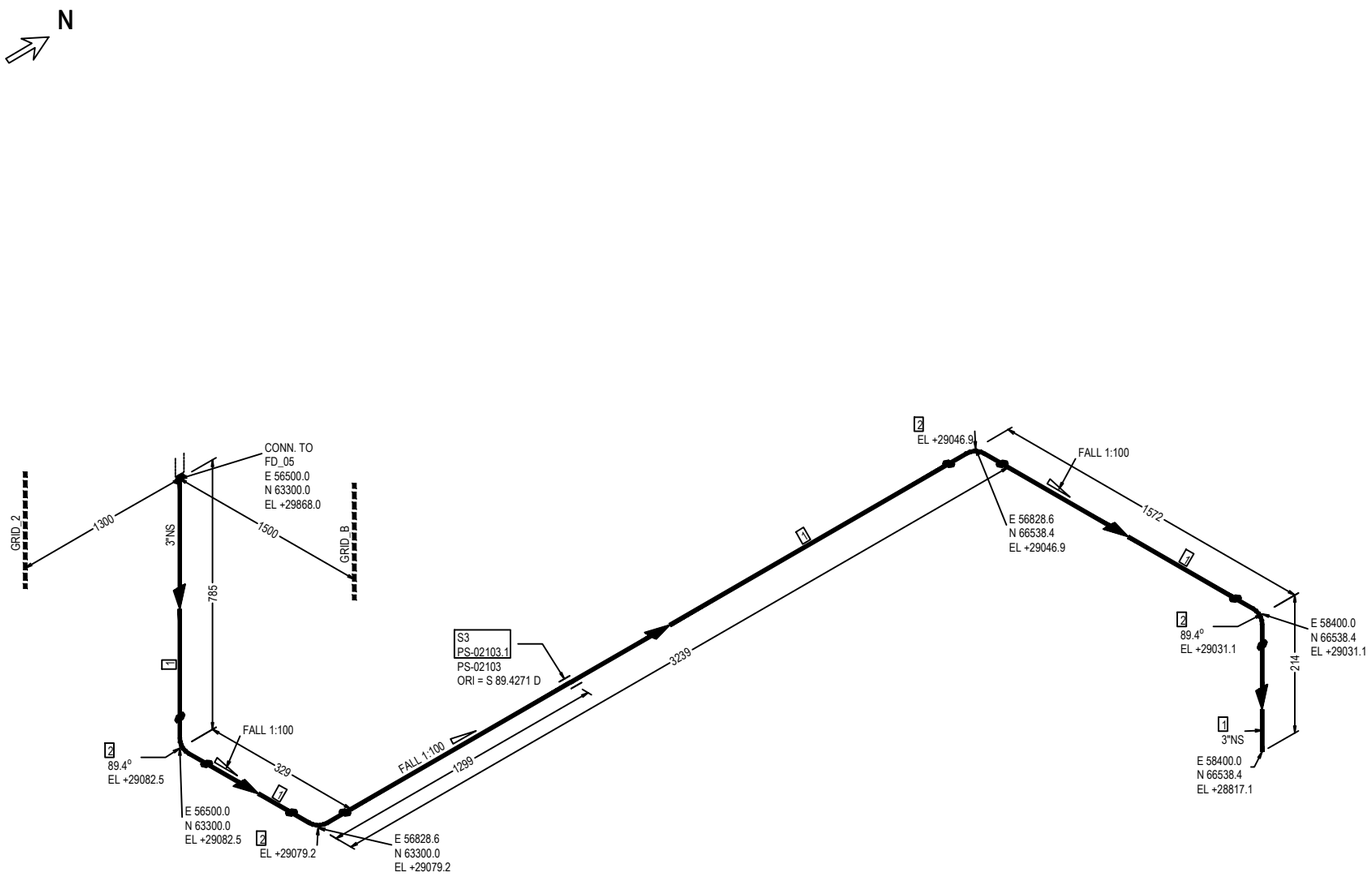
SIZE: A3

DRAWING NO. 123A90-DDL-PP-DI-71000_142

SHEET 1/1

REV. 02

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FABRICATION MATERIALS

| PT NO | COMPONENT DESCRIPTION | N.S. | ITEM CODE | Q.TY | WEIGHT |
|---|---|---|---|---|---|
| 1 | Pipe ASME B36.10M PE 5,49 SML ASTM/ASME A/SA333 Gr.6 | 3 | PIPECS03730300 | 5232MM | 59.12 |
| 2 | 90 Deg Elbow Long Radius ASME B16.9 BW 5,49 WRS ASTM/ASME A/SA420 Gr.WPL6 | 3 | E90RCS02830300 | 4 | 8.12 |
| | | | TOTAL FABRICATION WEIGHT | | 67.24 |

ERECTION MATERIALS

| PT NO | COMPONENT DESCRIPTION | N.S. | ITEM CODE | Q.TY | WEIGHT |
|---|---|---|---|---|---|
| | SUPPORTS | | | | |
| 3 | /PS-02103.1 | 3 | | 1 | 0.55 |
| | | | TOTAL ERECTION WEIGHT | | 0.55 |
| | | | TOTAL WEIGHT | | 67.79 |

| REFERENCE DOCUMENTS | |
|---|---|
| 123A90-DDL-PP-RE-70001 | STRESS ANALYSIS REPORT |
| 123A90-DDL-PR-PID-80043 | P&ID |
| 123A90-DDL-MAT-SP-60003 | INSULATION SPECIFICATION |
| 123A90-DDL-MAT-SP-60006 | COATING & PAINTING SPEC. |
| 123A90-DDL-PP-00-72000 | PIPING SUPPORT BOOK |
| 123A90-DDL-PP-SP-70029 | PIPING MATERIAL CLASS |

SYMBOLS LEGEND:
BUTT WELD · THREADED · HEAT TRACING · SOCKET · PIPE SUPPORT · INSULATED

| NDT EXAMINATION | | | | INSULATION & PAINTING | | |
|---|---|---|---|---|---|---|
| NDT TYPE | % | NDT TYPE | % | INS. TYPE | INS. THK. | INS. SURF. (m²) |
| RT | 10 | | 100 | N | | |
| INSPECTION CATEGORY | 2 | MT/PT | 10 | PAINT SYS. | BASE RAL | PAINT. SURF. (m²) |
| TESTING | | | | 1 | RAL 9002 | 1.66 |
| TEST FLUID | | TEST PRESS. (barg) | | HEAT TRACING | | |
| N/A | | N/A | | - | | |

| PROCESS LINE DATA | | | | LINE DATA | | |
|---|---|---|---|---|---|---|
| DESIGN TEMP. (°C) | | DESIGN PRESS. (barg) | | STRESS SYS. | PED CAT. | PWHT |
| unset | 80 | | 3.5 | - | Art. 4, par. 3 | No |

| Revision Number | Date | Description | Prepared by | Checked by | Approved by |
|---|---|---|---|---|---|
| 02 | 29/09/25 | AS-BUILT (ASB) | SPS | CBO | CGI |
| 01 | 26/07/24 | ACCEPTED FOR CONSTRUCTION | MMA | CBO | DLO |
| 00 | 07/06/24 | ISSUE FOR REVIEW | MMA | CBO | DLO |

ROSETTI MARINO

CROSSWIND

DWG TYTLE:

# 3"-DR-279-01CS-N

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK

SCALE N.A.

DRAWN SPS | CHECKED CBO | APPROVED CGI | DATE 29/09/25

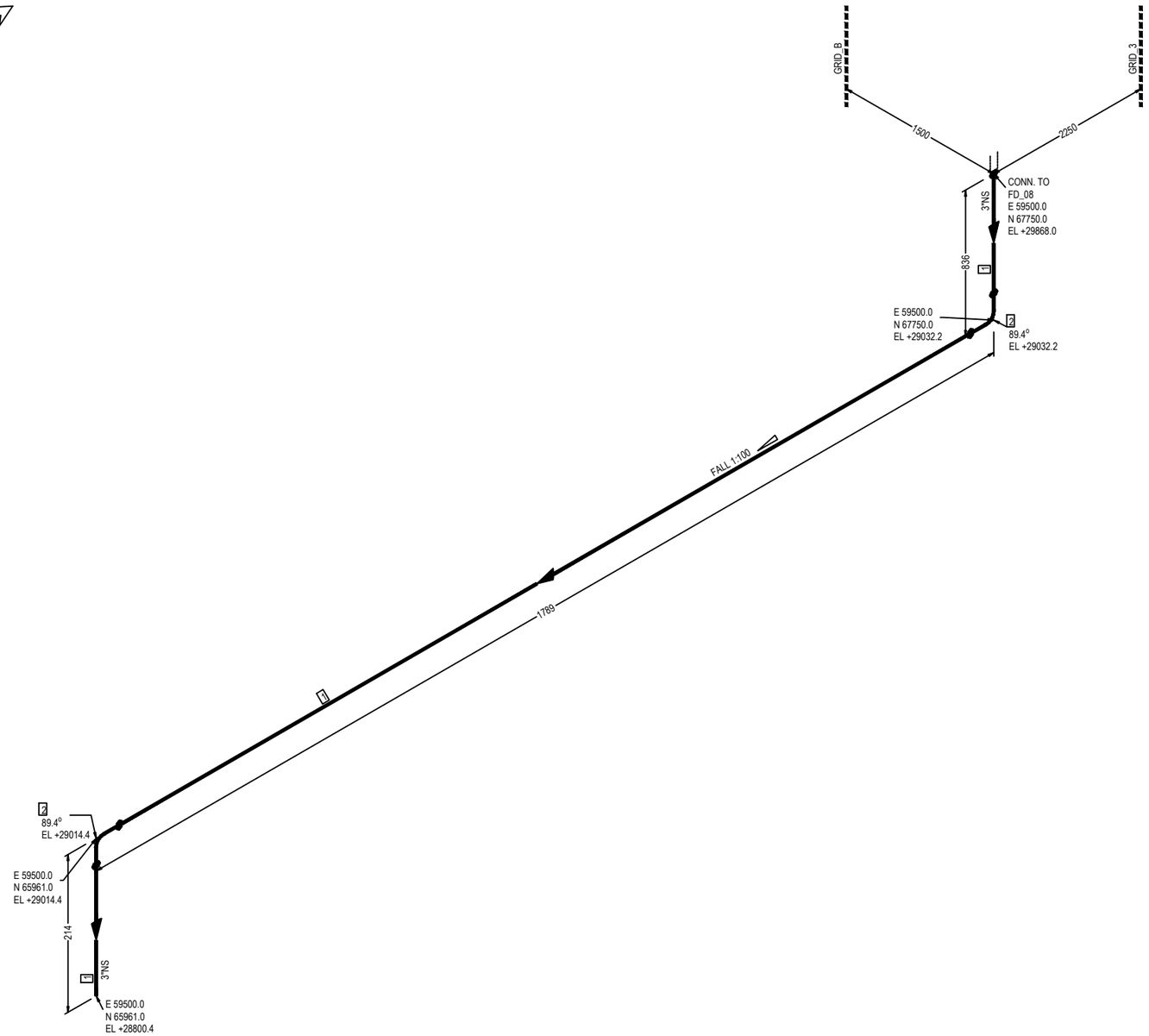
SIZE: A3

DRAWING NO. 123A90-DDL-PP-DI-71000_143

SHEET 1/1

REV. 02

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FABRICATION MATERIALS

| PT NO | COMPONENT DESCRIPTION | N.S. | ITEM CODE | Q.TY | WEIGHT |
|---|---|---|---|---|---|
| 1 | Pipe ASME B36.10M PE 5,49 SML ASTM/ASME A/SA333 Gr.6 | 3 | PIPECS03730300 | 2387MM | 26.97 |
| 2 | 90 Deg Elbow Long Radius ASME B16.9 BW 5,49 WRS ASTM/ASME A/SA420 Gr.WPL6 | 3 | E90RCS02830300 | 2 | 4.06 |
| | | | TOTAL FABRICATION WEIGHT | | 31.03 |

| REFERENCE DOCUMENTS | |
|---|---|
| 123A90-DDL-PP-RE-70001 | STRESS ANALYSIS REPORT |
| 123A90-DDL-PR-PID-80043 | P&ID |
| 123A90-DDL-MAT-SP-60003 | INSULATION SPECIFICATION |
| 123A90-DDL-MAT-SP-60006 | COATING & PAINTING SPEC. |
| 123A90-DDL-PP-00-72000 | PIPING SUPPORT BOOK |
| 123A90-DDL-PP-SP-70029 | PIPING MATERIAL CLASS |

SYMBOLS LEGEND:
BUTT WELD · THREADED · HEAT TRACING · SOCKET · PIPE SUPPORT · INSULATED

| NDT EXAMINATION | | | | INSULATION & PAINTING | | |
|---|---|---|---|---|---|---|
| NDT TYPE | % | NDT TYPE | % | INS. TYPE | INS. THK. | INS. SURF. (m²) |
| RT | 10 | | 100 | N | | |
| INSPECTION CATEGORY | 2 | MT/PT | 10 | PAINT SYS. | BASE RAL | PAINT. SURF. (m²) |
| TESTING | | | | 1 | RAL 9002 | 0.77 |
| TEST FLUID | | TEST PRESS. (barg) | | HEAT TRACING | | |
| N/A | | N/A | | - | | |
| PROCESS LINE DATA | | | | LINE DATA | | |
| DESIGN TEMP. (°C) | | DESIGN PRESS. (barg) | | STRESS SYS. | PED CAT. | PWHT |
| unset | 80 | | 3.5 | - | Art. 4, par. 3 | No |

| Revision Number | Date | Description | Prepared by | Checked by | Approved by |
|---|---|---|---|---|---|
| 02 | 29/09/25 | AS-BUILT (ASB) | SPS | CBO | CGI |
| 01 | 26/07/24 | ACCEPTED FOR CONSTRUCTION | MMA | CBO | DLO |
| 00 | 07/06/24 | ISSUE FOR REVIEW | MMA | CBO | DLO |

ROSETTI MARINO

# CROSSWIND

DWG TYTLE:

## 3"-DR-280-01CS-N

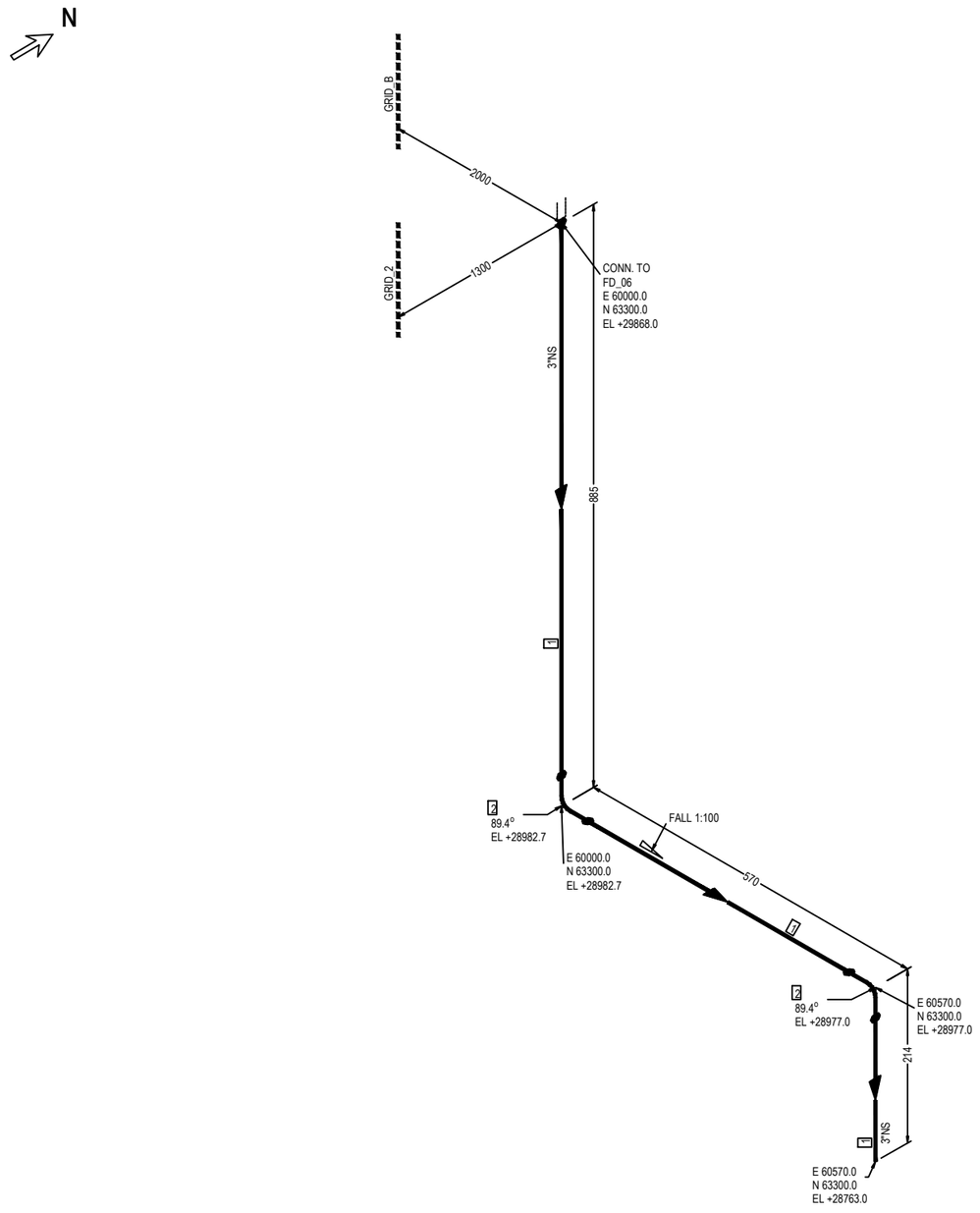
CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK

SCALE N.A.

DRAWN SPS | CHECKED CBO | APPROVED CGI | DATE 29/09/25

SIZE: A3 | DRAWING NO. 123A90-DDL-PP-DI-71000_144 | SHEET 1/1 | REV. 02

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FABRICATION MATERIALS

| PT NO | COMPONENT DESCRIPTION | N.S. | ITEM CODE | Q.TY | WEIGHT |
|---|---|---|---|---|---|
| 1 | Pipe ASME B36.10M PE 5,49 SML ASTM/ASME A/SA333 Gr.6 | 3 | PIPECS03730300 | 1217MM | 13.75 |
| 2 | 90 Deg Elbow Long Radius ASME B16.9 BW 5,49 WRS ASTM/ASME A/SA420 Gr.WPL6 | 3 | E90RCS02830300 | 2 | 4.06 |
| | | | TOTAL FABRICATION WEIGHT | | 17.81 |

| REFERENCE DOCUMENTS | |
|---|---|
| 123A90-DDL-PP-RE-70001 | STRESS ANALYSIS REPORT |
| 123A90-DDL-PR-PID-80043 | P&ID |
| 123A90-DDL-MAT-SP-60003 | INSULATION SPECIFICATION |
| 123A90-DDL-MAT-SP-60006 | COATING & PAINTING SPEC. |
| 123A90-DDL-PP-00-72000 | PIPING SUPPORT BOOK |
| 123A90-DDL-PP-SP-70029 | PIPING MATERIAL CLASS |

SYMBOLS LEGEND:
BUTT WELD · THREADED · HEAT TRACING
SOCKET · PIPE SUPPORT · INSULATED

| NDT EXAMINATION | | | |
|---|---|---|---|
| NDT TYPE | % | NDT TYPE | % |
| RT | 10 | | 100 |
| INSPECTION CATEGORY | 2 | MT/PT | 10 |
| TESTING | | | |
| TEST FLUID | | TEST PRESS. (barg) | |
| N/A | | N/A | |
| PROCESS LINE DATA | | | |
| DESIGN TEMP. (°C) | | DESIGN PRESS. (barg) | |
| unset | 80 | | 3.5 |

| INSULATION & PAINTING | | |
|---|---|---|
| INS. TYPE | INS. THK. | INS. SURF. (m²) |
| N | | |
| PAINT SYS. | BASE RAL | PAINT. SURF. (m²) |
| 1 | RAL 9002 | 0.44 |
| HEAT TRACING | | |
| - | | |
| LINE DATA | | |
| STRESS SYS. | PED CAT. | PWHT |
| - | Art. 4, par. 3 | No |

| Revision Number | Date | Description | Prepared by | Checked by | Approved by |
|---|---|---|---|---|---|
| 02 | 29/09/25 | AS-BUILT (ASB) | SPS | CBO | CGI |
| 01 | 26/07/24 | ACCEPTED FOR CONSTRUCTION | MMA | CBO | DLO |
| 00 | 07/06/24 | ISSUE FOR REVIEW | MMA | CBO | DLO |

ROSETTI MARINO

# CROSSWIND

DWG TYTLE:

## 3"-DR-281-01CS-N

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK

SCALE N.A.

DRAWN SPS | CHECKED CBO | APPROVED CGI | DATE 29/09/25

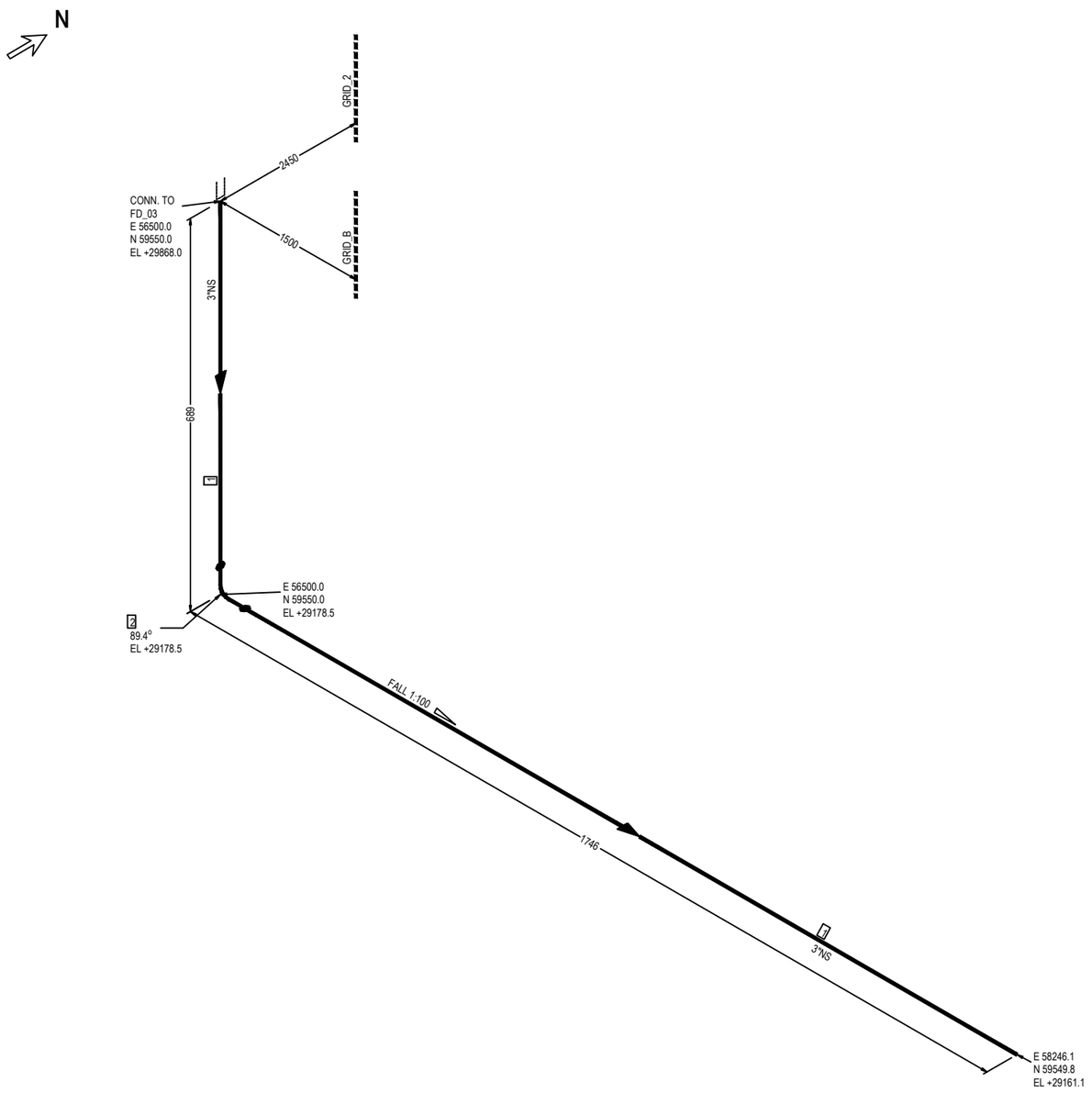
SIZE: A3

DRAWING NO. 123A90-DDL-PP-DI-71000_145

SHEET 1/1

REV. 02

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FABRICATION MATERIALS

| PT NO | COMPONENT DESCRIPTION | N.S. | ITEM CODE | Q.TY | WEIGHT |
|---|---|---|---|---|---|
| 1 | Pipe ASME B36.10M PE 5,49 SML ASTM/ASME A/SA333 Gr.6 | 3 | PIPECS03730300 | 2210MM | 24.97 |
| 2 | 90 Deg Elbow Long Radius ASME B16.9 BW 5,49 WRS ASTM/ASME A/SA420 Gr.WPL6 | 3 | E90RCS02830300 | 1 | 2.03 |
| | | | TOTAL FABRICATION WEIGHT | | 27.00 |

| REFERENCE DOCUMENTS | |
|---|---|
| 123A90-DDL-PP-RE-70001 | STRESS ANALYSIS REPORT |
| 123A90-DDL-PR-PID-80043 | P&ID |
| 123A90-DDL-MAT-SP-60003 | INSULATION SPECIFICATION |
| 123A90-DDL-MAT-SP-60006 | COATING & PAINTING SPEC. |
| 123A90-DDL-PP-00-72000 | PIPING SUPPORT BOOK |
| 123A90-DDL-PP-SP-70029 | PIPING MATERIAL CLASS |

SYMBOLS LEGEND:
BUTT WELD · THREADED · HEAT TRACING
SOCKET · PIPE SUPPORT · INSULATED

| NDT EXAMINATION | | | |
|---|---|---|---|
| NDT TYPE | % | NDT TYPE | % |
| RT | 10 | | 100 |
| INSPECTION CATEGORY | 2 | MT/PT | 10 |
| TESTING | | | |
| TEST FLUID | | TEST PRESS. (barg) | |
| N/A | | N/A | |
| PROCESS LINE DATA | | | |
| DESIGN TEMP. (°C) | | DESIGN PRESS. (barg) | |
| unset | 80 | | 3.5 |

| INSULATION & PAINTING | | |
|---|---|---|
| INS. TYPE | INS. THK. | INS. SURF. (m²) |
| N | | |
| PAINT SYS. | BASE RAL | PAINT. SURF. (m²) |
| 1 | RAL 9002 | 0.67 |
| HEAT TRACING | | |
| - | | |
| LINE DATA | | |
| STRESS SYS. | PED CAT. | PWHT |
| - | Art. 4, par. 3 | No |

| Revision Number | Date | Description | Prepared by | Checked by | Approved by |
|---|---|---|---|---|---|
| 02 | 29/09/25 | AS-BUILT (ASB) | SPS | CBO | CGI |
| 01 | 26/07/24 | ACCEPTED FOR CONSTRUCTION | MMA | CBO | DLO |
| 00 | 07/06/24 | ISSUE FOR REVIEW | MMA | CBO | DLO |

ROSETTI MARINO

# CROSSWIND

DWG TYTLE:

## 3"-DR-282-01CS-N

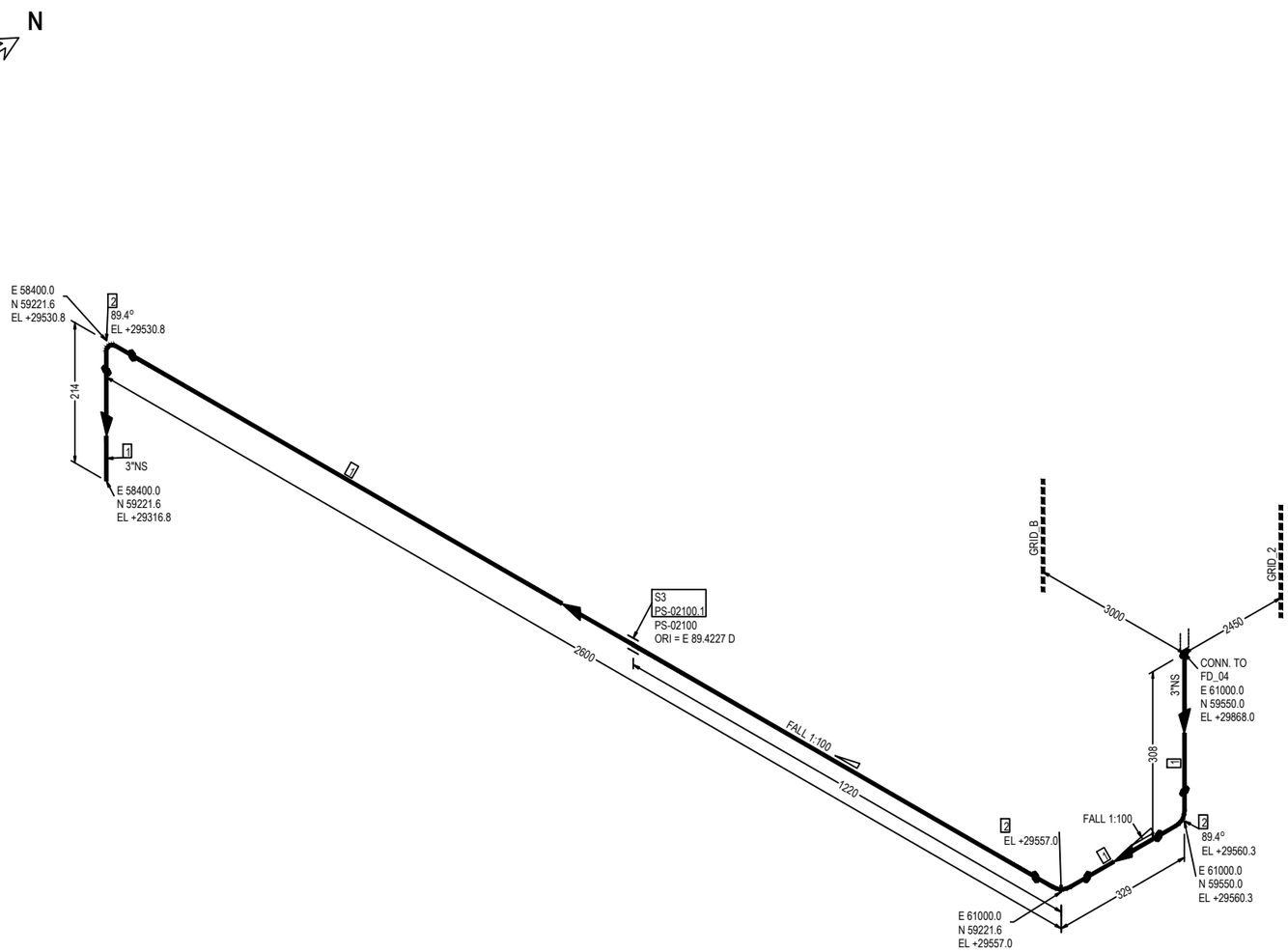
CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK

SCALE N.A.

DRAWN SPS | CHECKED CBO | APPROVED CGI | DATE 29/09/25

SIZE: A3 | DRAWING NO. 123A90-DDL-PP-DI-71000_146 | SHEET 1/1 | REV. 02

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FABRICATION MATERIALS

| PT NO | COMPONENT DESCRIPTION | N.S. | ITEM CODE | Q.TY | WEIGHT |
|---|---|---|---|---|---|
| 1 | Pipe ASME B36.10M PE 5,49 SML ASTM/ASME A/SA333 Gr.6 | 3 | PIPECS03730300 | 2771MM | 31.31 |
| 2 | 90 Deg Elbow Long Radius ASME B16.9 BW 5,49 WRS ASTM/ASME A/SA420 Gr.WPL6 | 3 | E90RCS02830300 | 3 | 6.09 |
| | | | TOTAL FABRICATION WEIGHT | | 37.40 |

ERECTION MATERIALS

| PT NO | COMPONENT DESCRIPTION | N.S. | ITEM CODE | Q.TY | WEIGHT |
|---|---|---|---|---|---|
| | SUPPORTS | | | | |
| 3 | /PS-02100.1 | 3 | | 1 | 0.55 |
| | | | TOTAL ERECTION WEIGHT | | 0.55 |
| | | | TOTAL WEIGHT | | 37.95 |

| REFERENCE DOCUMENTS | | NDT EXAMINATION | | | | INSULATION & PAINTING | | |
|---|---|---|---|---|---|---|---|---|
| 123A90-DDL-PP-RE-70001 | STRESS ANALYSIS REPORT | NDT TYPE | % | NDT TYPE | % | INS. TYPE | INS. THK. | INS. SURF. (m²) |
| 123A90-DDL-PR-PID-80043 | P&ID | RT | 10 | | 100 | N | | |
| 123A90-DDL-MAT-SP-60003 | INSULATION SPECIFICATION | INSPECTION CATEGORY | 2 | MT/PT | 10 | PAINT SYS. | BASE RAL | PAINT. SURF. (m²) |
| 123A90-DDL-MAT-SP-60006 | COATING & PAINTING SPEC. | TESTING | | | | 1 | RAL 9002 | 0.92 |
| 123A90-DDL-PP-00-72000 | PIPING SUPPORT BOOK | TEST FLUID | | TEST PRESS. (barg) | | HEAT TRACING | | |
| 123A90-DDL-PP-SP-70029 | PIPING MATERIAL CLASS | N/A | | N/A | | - | | |
| SYMBOLS LEGEND: | | PROCESS LINE DATA | | | | LINE DATA | | |
| BUTT WELD / THREADED / HEAT TRACING | | DESIGN TEMP. (°C) | | DESIGN PRESS. (barg) | | STRESS SYS. | PED CAT. | PWHT |
| SOCKET / PIPE SUPPORT / INSULATED | | unset | 80 | | 3.5 | - | Art. 4, par. 3 | No |

| Revision Number | Date | Description | Prepared by | Checked by | Approved by |
|---|---|---|---|---|---|
| 02 | 29/09/25 | AS-BUILT (ASB) | SPS | CBO | CGI |
| 01 | 26/07/24 | ACCEPTED FOR CONSTRUCTION | MMA | CBO | DLO |
| 00 | 07/06/24 | ISSUE FOR REVIEW | MMA | CBO | DLO |

ROSETTI MARINO

CROSSWIND

DWG TYTLE:

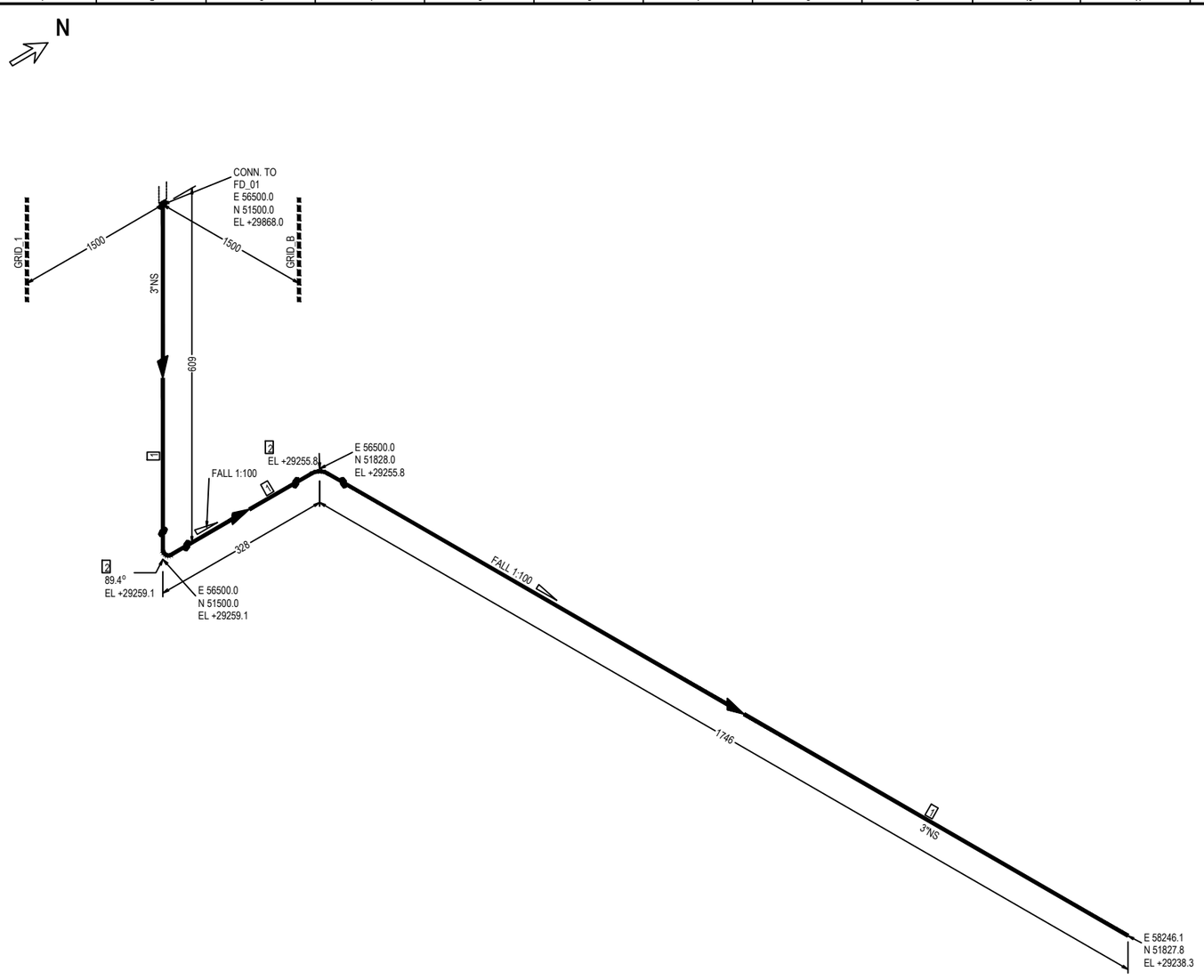
# 3"-DR-283-01CS-N

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK | SCALE N.A.

DRAWN SPS | CHECKED CBO | APPROVED CGI | DATE 29/09/25

SIZE: A3 | DRAWING NO. 123A90-DDL-PP-DI-71000_147 | SHEET 1/1 | REV. 02

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FABRICATION MATERIALS

| PT NO | COMPONENT DESCRIPTION | N.S. | ITEM CODE | Q.TY | WEIGHT |
|---|---|---|---|---|---|
| 1 | Pipe ASME B36.10M PE 5,49 SML ASTM/ASME A/SA333 Gr.6 | 3 | PIPECS03730300 | 2229MM | 25.19 |
| 2 | 90 Deg Elbow Long Radius ASME B16.9 BW 5,49 WRS ASTM/ASME A/SA420 Gr.WPL6 | 3 | E90RCS02830300 | 2 | 4.06 |
| | | | TOTAL FABRICATION WEIGHT | | 29.25 |

| REFERENCE DOCUMENTS | |
|---|---|
| 123A90-DDL-PP-RE-70001 | STRESS ANALYSIS REPORT |
| 123A90-DDL-PR-PID-80043 | P&ID |
| 123A90-DDL-MAT-SP-60003 | INSULATION SPECIFICATION |
| 123A90-DDL-MAT-SP-60006 | COATING & PAINTING SPEC. |
| 123A90-DDL-PP-00-72000 | PIPING SUPPORT BOOK |
| 123A90-DDL-PP-SP-70029 | PIPING MATERIAL CLASS |

SYMBOLS LEGEND:
BUTT WELD · THREADED · HEAT TRACING
SOCKET · PIPE SUPPORT · INSULATED

| NDT EXAMINATION | | | |
|---|---|---|---|
| NDT TYPE | % | NDT TYPE | % |
| RT | 10 | | 100 |
| INSPECTION CATEGORY | 2 | MT/PT | 10 |
| TESTING | | | |
| TEST FLUID | | TEST PRESS. (barg) | |
| N/A | | N/A | |
| PROCESS LINE DATA | | | |
| DESIGN TEMP. (°C) | | DESIGN PRESS. (barg) | |
| unset | 80 | | 3.5 |

| INSULATION & PAINTING | | |
|---|---|---|
| INS. TYPE | INS. THK. | INS. SURF. (m²) |
| N | | |
| PAINT SYS. | BASE RAL | PAINT. SURF. (m²) |
| 1 | RAL 9002 | 0.72 |
| HEAT TRACING | | |
| - | | |
| LINE DATA | | |
| STRESS SYS. | PED CAT. | PWHT |
| - | Art. 4, par. 3 | No |

| Revision Number | Date | Description | Prepared by | Checked by | Approved by |
|---|---|---|---|---|---|
| 02 | 29/09/25 | AS-BUILT (ASB) | SPS | CBO | CGI |
| 01 | 26/07/24 | ACCEPTED FOR CONSTRUCTION | MMA | CBO | DLO |
| 00 | 07/06/24 | ISSUE FOR REVIEW | MMA | CBO | DLO |

ROSETTI MARINO

# CROSSWIND

DWG TYTLE:

## 3"-DR-284-01CS-N

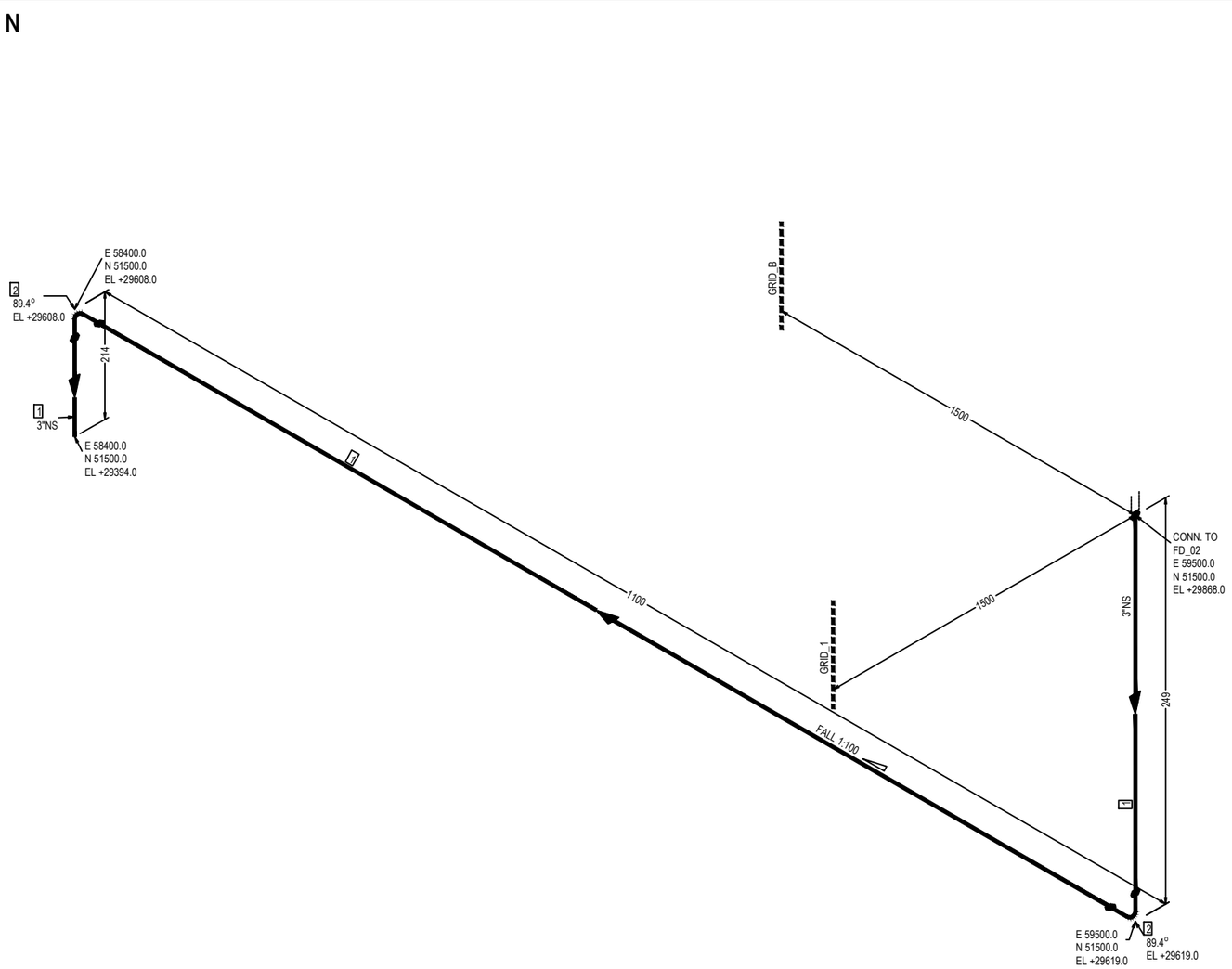
CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK

SCALE N.A.

DRAWN SPS | CHECKED CBO | APPROVED CGI | DATE 29/09/25

SIZE: A3 | DRAWING NO. 123A90-DDL-PP-DI-71000_148 | SHEET 1/1 | REV. 02

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FABRICATION MATERIALS

| PT NO | COMPONENT DESCRIPTION | N.S. | ITEM CODE | Q.TY | WEIGHT |
|---|---|---|---|---|---|
| 1 | Pipe ASME B36.10M PE 5,49 SML ASTM/ASME A/SA333 Gr.6 | 3 | PIPECS03730300 | 1111MM | 12.55 |
| 2 | 90 Deg Elbow Long Radius ASME B16.9 BW 5,49 WRS ASTM/ASME A/SA420 Gr.WPL6 | 3 | E90RCS02830300 | 2 | 4.06 |
| | | | TOTAL FABRICATION WEIGHT | | 16.61 |

| REFERENCE DOCUMENTS | |
|---|---|
| 123A90-DDL-PP-RE-70001 | STRESS ANALYSIS REPORT |
| 123A90-DDL-PR-PID-80043 | P&ID |
| 123A90-DDL-MAT-SP-60003 | INSULATION SPECIFICATION |
| 123A90-DDL-MAT-SP-60006 | COATING & PAINTING SPEC. |
| 123A90-DDL-PP-00-72000 | PIPING SUPPORT BOOK |
| 123A90-DDL-PP-SP-70029 | PIPING MATERIAL CLASS |

SYMBOLS LEGEND:
BUTT WELD · THREADED · HEAT TRACING · SOCKET · PIPE SUPPORT · INSULATED

| NDT EXAMINATION | | | |
|---|---|---|---|
| NDT TYPE | % | NDT TYPE | % |
| RT | 10 | | 100 |
| INSPECTION CATEGORY | 2 | MT/PT | 10 |
| TESTING | | | |
| TEST FLUID | | TEST PRESS. (barg) | |
| N/A | | N/A | |
| PROCESS LINE DATA | | | |
| DESIGN TEMP. (°C) | | DESIGN PRESS. (barg) | |
| unset | 80 | | 3.5 |

| INSULATION & PAINTING | | |
|---|---|---|
| INS. TYPE | INS. THK. | INS. SURF. (m²) |
| N | | |
| PAINT SYS. | BASE RAL | PAINT. SURF. (m²) |
| 1 | RAL 9002 | 0.41 |
| HEAT TRACING | | |
| - | | |
| LINE DATA | | |
| STRESS SYS. | PED CAT. | PWHT |
| - | Art. 4, par. 3 | No |

| Revision Number | Date | Description | Prepared by | Checked by | Approved by |
|---|---|---|---|---|---|
| 02 | 29/09/25 | AS-BUILT (ASB) | SPS | CBO | CGI |
| 01 | 26/07/24 | ACCEPTED FOR CONSTRUCTION | MMA | CBO | DLO |
| 00 | 07/06/24 | ISSUE FOR REVIEW | MMA | CBO | DLO |

ROSETTI MARINO

# CROSSWIND

DWG TYTLE:

## 3"-DR-285-01CS-N

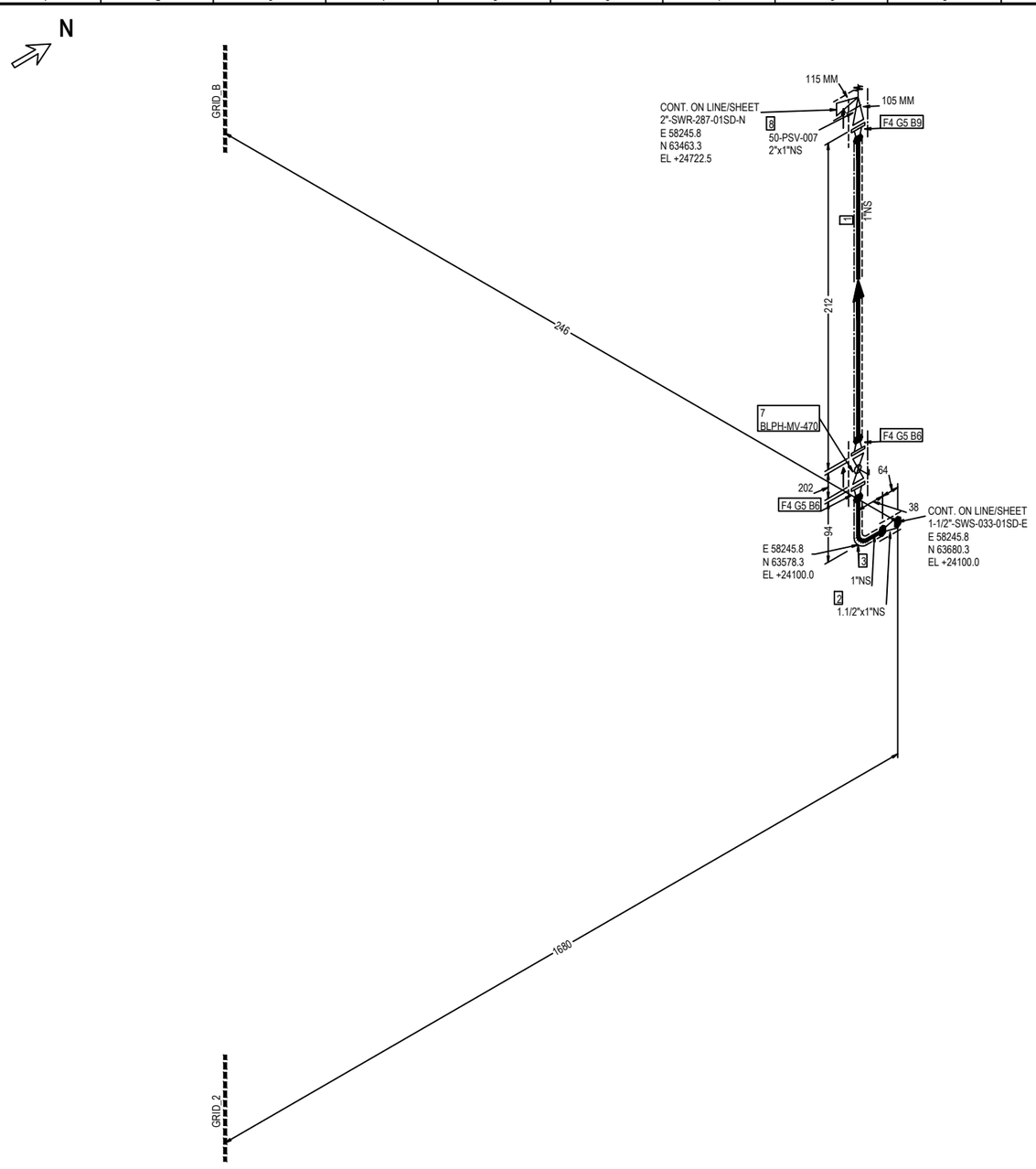
CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK

SCALE N.A.

DRAWN SPS | CHECKED CBO | APPROVED CGI | DATE 29/09/25

SIZE: A3 | DRAWING NO. 123A90-DDL-PP-DI-71000_149 | SHEET 1/1 | REV. 02

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FABRICATION MATERIALS

| PT NO | COMPONENT DESCRIPTION | N.S. | ITEM CODE | Q.TY | WEIGHT |
|---|---|---|---|---|---|
| 1 | Pipe ASME B36.19M PE 3,38 SML ASTM A790 UNS S32760 | 1 | PIPESD02850100 | 100MM | 0.26 |
| 2 | Reducer Concentric ASME B16.9 BW 3,68x3,38 WRS ASTM A815 UNS S32760 | 1.1/2 x 1 | REC0SD08001H01 | 1 | 0.26 |
| 3 | 90 Deg Elbow Long Radius ASME B16.9 BW 3,38 WRS ASTM A815 UNS S32760 | 1 | E90RSD01640100 | 1 | 0.14 |
| 4 | Flange WN ASME B16.5 150LB RF 3,38 FRG ASTM A182 Gr.F55 | 1 | FLW0SD01240100 | 3 | 4.29 |
| | | | TOTAL FABRICATION WEIGHT | | 4.95 |

ERECTION MATERIALS

| PT NO | COMPONENT DESCRIPTION | N.S. | ITEM CODE | Q.TY | WEIGHT |
|---|---|---|---|---|---|
| 5 | Gasket Flat Thk. 3 mm ASME B16.21 150LB RF GSK NEOPRENE | 1 | GFL3GK15970100 | 3 | 0.03 |
| 6 | 65 Stud Bolt + 2 Heavy Nuts ASME B1.1 ASTM A193 Gr.B7 - A194 Gr.2H Hot dip galvanized | 1/2 | SB20BO01080200 | 8 | 0.96 |
| 9 | 105 Stud Bolt + 2 Heavy Nuts ASME B1.1 ASTM A193 Gr.B7 - A194 Gr.2H Hot dip galvanized | 1/2 | SB20BO34450200 | 4 | 0.68 |
| 7 | Block & Bleed Valve API 6D FLG 150LB RF BS01F01RFS | 1 | VLBLNN01370100 | 1 | 12.50 |
| | INSTRUMENTS | | | | |
| 8 | SAFETY VALVE FLG.150/150#RF 50-PSV-007 | 2 x 1 | | 1 | 15.00 |
| | | | TOTAL ERECTION WEIGHT | | 29.17 |
| | | | TOTAL WEIGHT | | 34.12 |

| REFERENCE DOCUMENTS | |
|---|---|
| 123A90-DDL-PP-RE-70001 | STRESS ANALYSIS REPORT |
| 123A90-DDL-PR-PID-80021 | P&ID |
| 123A90-DDL-MAT-SP-60003 | INSULATION SPECIFICATION |
| 123A90-DDL-MAT-SP-60006 | COATING & PAINTING SPEC. |
| 123A90-DDL-PP-00-72000 | PIPING SUPPORT BOOK |
| 123A90-DDL-PP-SP-70029 | PIPING MATERIAL CLASS |

SYMBOLS LEGEND:
BUTT WELD — THREADED — HEAT TRACING
SOCKET — PIPE SUPPORT — INSULATED

| NDT EXAMINATION | | | |
|---|---|---|---|
| NDT TYPE | % | NDT TYPE | % |
| RT | 10 | | 100 |
| INSPECTION CATEGORY | 2 | MT/PT | 10 |
| TESTING | | | |
| TEST FLUID | | TEST PRESS. (barg) | |
| Water | | 11.40 | |

| PROCESS LINE DATA | | | |
|---|---|---|---|
| DESIGN TEMP. (°C) | | DESIGN PRESS. (barg) | |
| -29 | 100 | | 7.6 |

| INSULATION & PAINTING | | |
|---|---|---|
| INS. TYPE | INS. THK. | INS. SURF. (m²) |
| H | 20mm | 0.24 |
| PAINT SYS. | BASE RAL | PAINT. SURF. (m²) |
| N/A | N/A | |
| HEAT TRACING | | |
| YES | | |

| LINE DATA | | |
|---|---|---|
| STRESS SYS. | PED CAT. | PWHT |
| - | Art. 4, par. 3 | No |

| Revision Number | Date | Description | Prepared by | Checked by | Approved by |
|---|---|---|---|---|---|
| 01 | 29/09/25 | AS-BUILT (ASB) | SPS | CBO | CGI |
| 00 | 26/07/24 | ACCEPTED FOR CONSTRUCTION | MMA | CBO | DLO |

ROSETTI MARINO

CROSSWIND

DWG TYTLE:

# 1"-SWS-286-01SD-E

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK

SCALE N.A.

DRAWN SPS | CHECKED CBO | APPROVED CGI | DATE 29/09/25

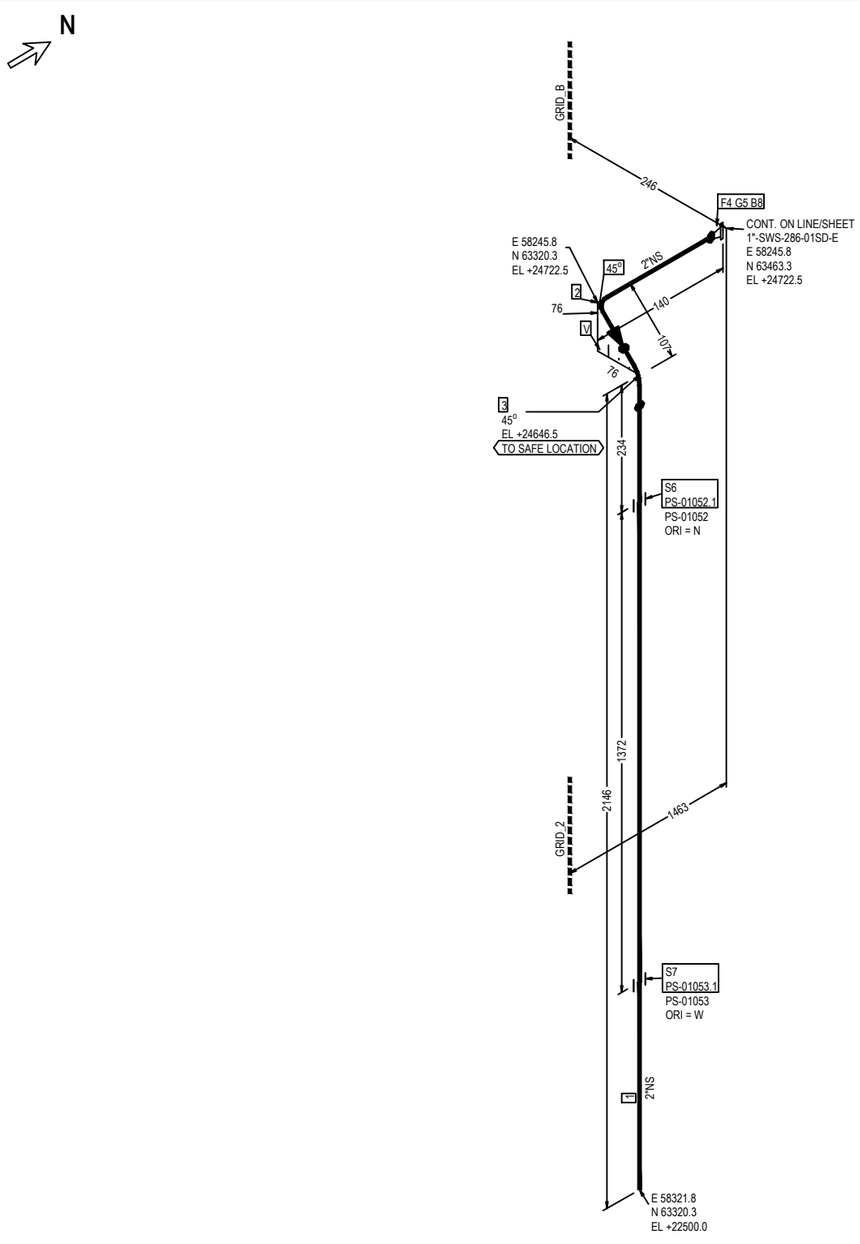
SIZE: A3

DRAWING NO. 123A90-DDL-PP-DI-71000_150

SHEET 1/1

REV. 01

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FABRICATION MATERIALS

| PT NO | COMPONENT DESCRIPTION | N.S. | ITEM CODE | Q.TY | WEIGHT |
|---|---|---|---|---|---|
| 1 | Pipe ASME B36.19M PE 2,77 SML ASTM A790 UNS S32760 | 2 | PIPESD02860200 | 2111MM | 8.44 |
| 2 | 90 Deg Elbow Long Radius ASME B16.9 BW 2,77 WRS ASTM A815 UNS S32760 | 2 | E90RSD01650200 | 1 | 0.47 |
| 3 | 45 Deg Elbow Long Radius ASME B16.9 BW 2,77 WRS ASTM A815 UNS S32760 | 2 | E45RSD01550200 | 1 | 0.23 |
| 4 | Flange WN For Jackscrews ASME B16.5 150LB RF 2,77 FRG ASTM A182 Gr.F55 | 2 | FLWDSD00310200 | 1 | 2.75 |
| | | | TOTAL FABRICATION WEIGHT | | 11.89 |

ERECTION MATERIALS

| PT NO | COMPONENT DESCRIPTION | N.S. | ITEM CODE | Q.TY | WEIGHT |
|---|---|---|---|---|---|
| 5 | Gasket Flat Thk. 3 mm ASME B16.21 150LB RF GSK NEOPRENE | 2 | GFL3GK13230200 | 1 | 0.01 |
| 8 | 110 Stud Bolt + 2 Heavy Nuts ASME B1.1 ASTM A193 Gr.B7 - A194 Gr.2H Hot dip galvanized | 5/8 | SB20BO00990300 | 4 | 1.12 |
| | SUPPORTS | | | | |
| 6 | /PS-01052.1 | 2 | | 1 | 0.33 |
| 7 | /PS-01053.1 | 2 | | 1 | 0.33 |
| | | | TOTAL ERECTION WEIGHT | | 1.79 |
| | | | TOTAL WEIGHT | | 13.68 |

| REFERENCE DOCUMENTS | |
|---|---|
| 123A90-DDL-PP-RE-70001 | STRESS ANALYSIS REPORT |
| 123A90-DDL-PR-PID-80021 | P&ID |
| 123A90-DDL-MAT-SP-60003 | INSULATION SPECIFICATION |
| 123A90-DDL-MAT-SP-60006 | COATING & PAINTING SPEC. |
| 123A90-DDL-PP-00-72000 | PIPING SUPPORT BOOK |
| 123A90-DDL-PP-SP-70029 | PIPING MATERIAL CLASS |

SYMBOLS LEGEND:
BUTT WELD · THREADED · HEAT TRACING · SOCKET · PIPE SUPPORT · INSULATED

| NDT EXAMINATION | | | | INSULATION & PAINTING | | |
|---|---|---|---|---|---|---|
| NDT TYPE | % | NDT TYPE | % | INS. TYPE | INS. THK. | INS. SURF. (m²) |
| RT | 10 | | 100 | N | | |
| INSPECTION CATEGORY | 2 | MT/PT | 10 | PAINT SYS. | BASE RAL | PAINT. SURF. (m²) |
| TESTING | | | | N/A | N/A | |
| TEST FLUID | | TEST PRESS.(barg) | | HEAT TRACING | | |
| N/A | | N/A | | - | | |
| PROCESS LINE DATA | | | | LINE DATA | | |
| DESIGN TEMP. (°C) | | DESIGN PRESS.(barg) | | STRESS SYS. | PED CAT. | PWHT |
| -29 | 100 | | 3.5 | - | Art. 4, par. 3 | No |

| Revision Number | Date | Description | Prepared by | Checked by | Approved by |
|---|---|---|---|---|---|
| 01 | 29/09/25 | AS-BUILT (ASB) | SPS | CBO | CGI |
| 00 | 26/07/24 | ACCEPTED FOR CONSTRUCTION | MMA | CBO | DLO |

ROSETTI MARINO

# CROSSWIND

DWG TYTLE:

## 2"-SWR-287-01SD-N

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK

SCALE N.A.

DRAWN SPS | CHECKED CBO | APPROVED CGI | DATE 29/09/25

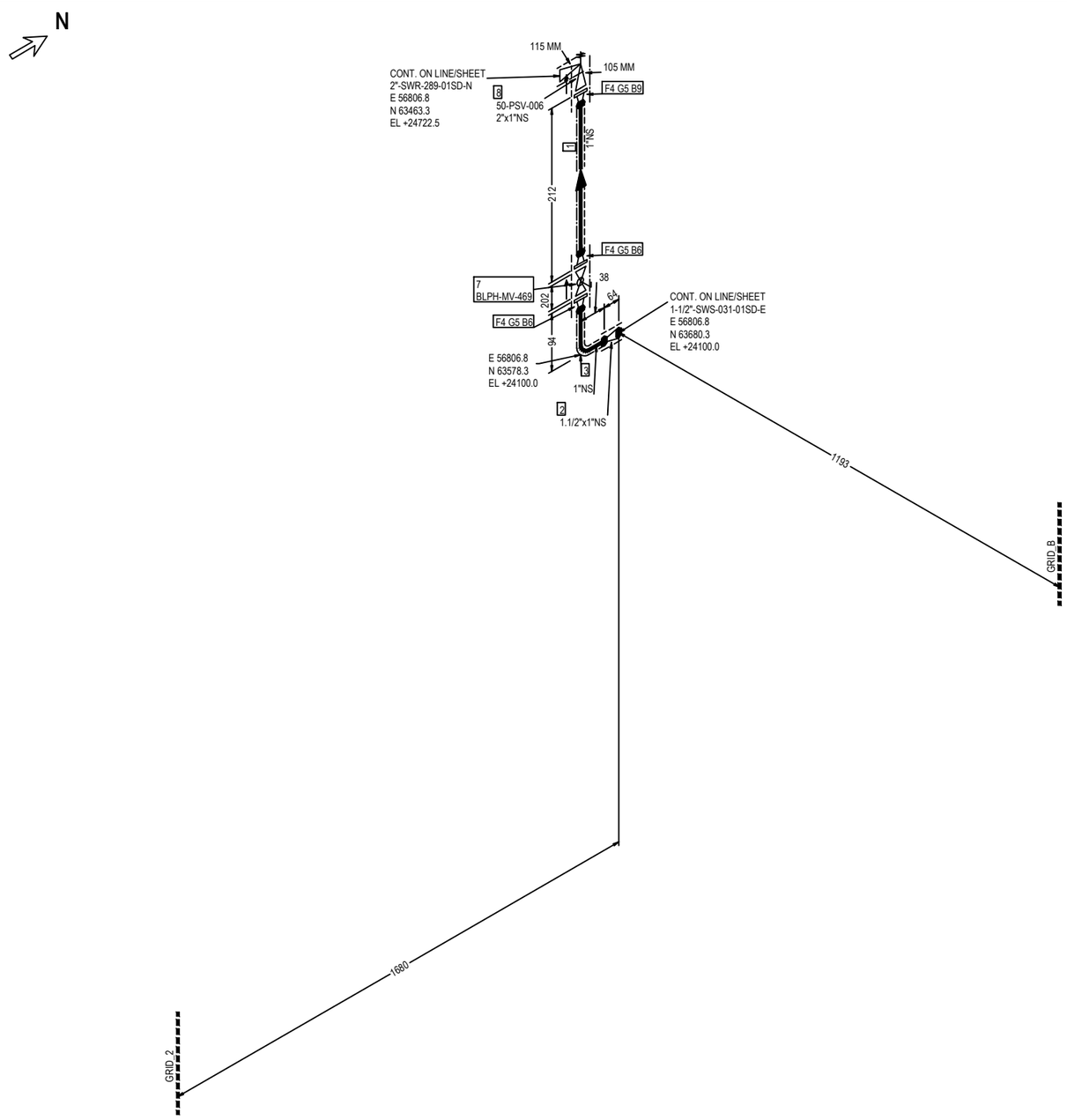
SIZE: A3

DRAWING NO. 123A90-DDL-PP-DI-71000_151

SHEET 1/1

REV. 01

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FABRICATION MATERIALS

| PT NO | COMPONENT DESCRIPTION | N.S. | ITEM CODE | Q.TY | WEIGHT |
|---|---|---|---|---|---|
| 1 | Pipe ASME B36.19M PE 3,38 SML ASTM A790 UNS S32760 | 1 | PIPESD02850100 | 100MM | 0.26 |
| 2 | Reducer Concentric ASME B16.9 BW 3,68x3,38 WRS ASTM A815 UNS S32760 | 1.1/2 x 1 | REC0SD08001H01 | 1 | 0.26 |
| 3 | 90 Deg Elbow Long Radius ASME B16.9 BW 3,38 WRS ASTM A815 UNS S32760 | 1 | E90RSD01640100 | 1 | 0.14 |
| 4 | Flange WN ASME B16.5 150LB RF 3,38 FRG ASTM A182 Gr.F55 | 1 | FLW0SD01240100 | 3 | 4.29 |
| | | | TOTAL FABRICATION WEIGHT | | 4.95 |

ERECTION MATERIALS

| PT NO | COMPONENT DESCRIPTION | N.S. | ITEM CODE | Q.TY | WEIGHT |
|---|---|---|---|---|---|
| 5 | Gasket Flat Thk. 3 mm ASME B16.21 150LB RF GSK NEOPRENE | 1 | GFL3GK15970100 | 3 | 0.03 |
| 6 | 65 Stud Bolt + 2 Heavy Nuts ASME B1.1 ASTM A193 Gr.B7 - A194 Gr.2H Hot dip galvanized | 1/2 | SB20BO01080200 | 8 | 0.96 |
| 9 | 105 Stud Bolt + 2 Heavy Nuts ASME B1.1 ASTM A193 Gr.B7 - A194 Gr.2H Hot dip galvanized | 1/2 | SB20BO34450200 | 4 | 0.68 |
| 7 | Block & Bleed Valve API 6D FLG 150LB RF BS01F01RFS | 1 | VLBLNN01370100 | 1 | 12.50 |
| | INSTRUMENTS | | | | |
| 8 | SAFETY VALVE FLG.150/150#RF 50-PSV-006 | 2 x 1 | | 1 | 15.00 |
| | | | TOTAL ERECTION WEIGHT | | 28.49 |
| | | | TOTAL WEIGHT | | 33.44 |

| REFERENCE DOCUMENTS | |
|---|---|
| 123A90-DDL-PP-RE-70001 | STRESS ANALYSIS REPORT |
| 123A90-DDL-PR-PID-80021 | P&ID |
| 123A90-DDL-MAT-SP-60003 | INSULATION SPECIFICATION |
| 123A90-DDL-MAT-SP-60006 | COATING & PAINTING SPEC. |
| 123A90-DDL-PP-00-72000 | PIPING SUPPORT BOOK |
| 123A90-DDL-PP-SP-70029 | PIPING MATERIAL CLASS |

SYMBOLS LEGEND:
BUTT WELD — THREADED — HEAT TRACING
SOCKET — PIPE SUPPORT — INSULATED

| NDT EXAMINATION | | | |
|---|---|---|---|
| NDT TYPE | % | NDT TYPE | % |
| RT | 10 | | 100 |
| INSPECTION CATEGORY | 2 | MT/PT | 10 |
| TESTING | | | |
| TEST FLUID | | TEST PRESS. (barg) | |
| Water | | 11.40 | |

| PROCESS LINE DATA | | | |
|---|---|---|---|
| DESIGN TEMP. (°C) | | DESIGN PRESS. (barg) | |
| -29 | 100 | | 7.6 |

| INSULATION & PAINTING | | |
|---|---|---|
| INS. TYPE | INS. THK. | INS. SURF. (m²) |
| H | 20mm | 0.24 |
| PAINT SYS. | BASE RAL | PAINT. SURF. (m²) |
| N/A | N/A | |
| HEAT TRACING | | |
| YES | | |

| LINE DATA | | |
|---|---|---|
| STRESS SYS. | PED CAT. | PWHT |
| - | Art. 4, par. 3 | No |

| Revision Number | Date | Description | Prepared by | Checked by | Approved by |
|---|---|---|---|---|---|
| 01 | 29/09/25 | AS-BUILT (ASB) | SPS | CBO | CGI |
| 00 | 26/07/24 | ACCEPTED FOR CONSTRUCTION | MMA | CBO | DLO |

ROSETTI MARINO

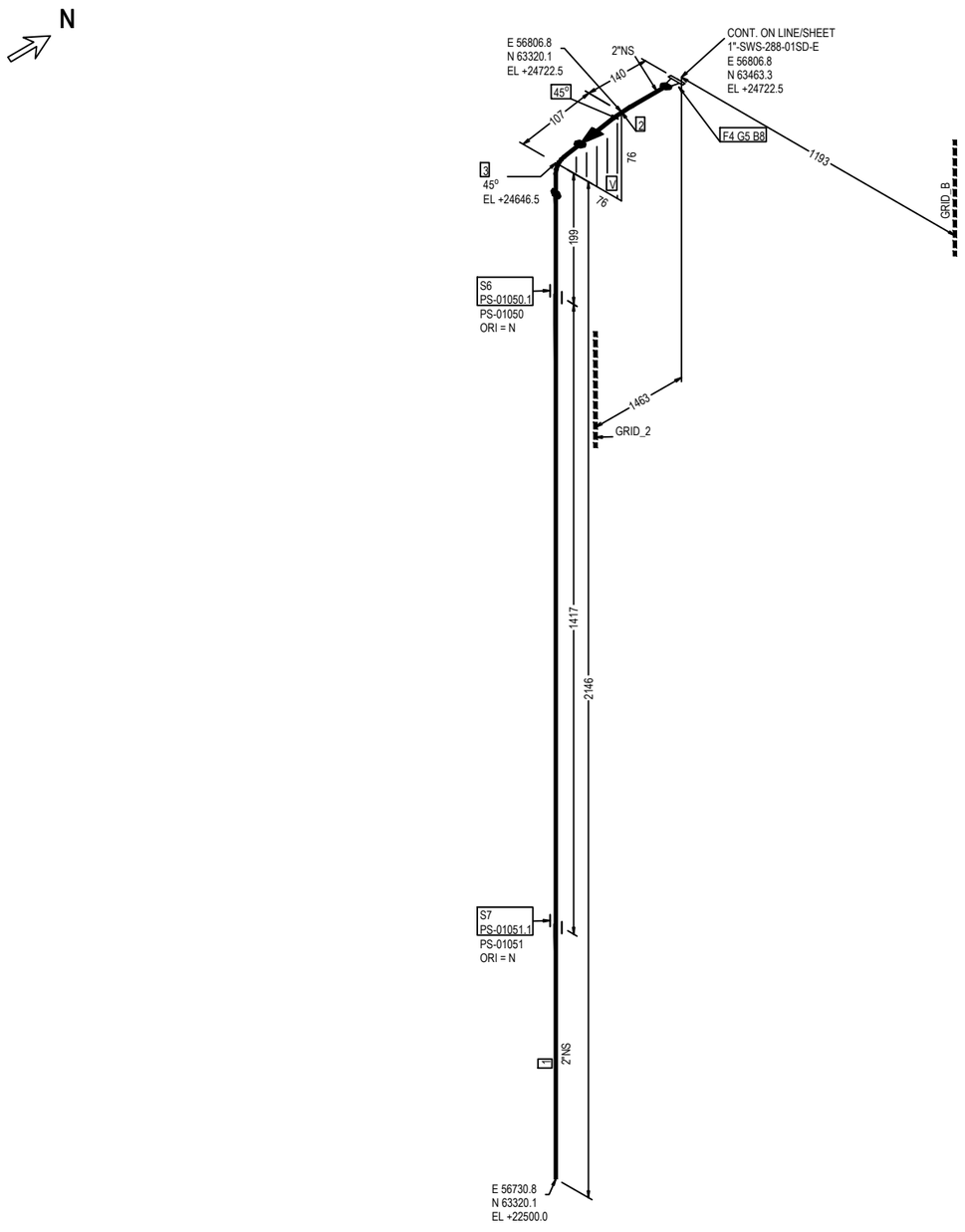
# CROSSWIND

DWG TYTLE:

## 1"-SWS-288-01SD-E

| | | | |
|---|---|---|---|
| CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK | | | SCALE N.A. |
| DRAWN SPS | CHECKED CBO | APPROVED CGI | DATE 29/09/25 |
| SIZE: A3 | DRAWING NO. 123A90-DDL-PP-DI-71000_152 | | SHEET 1/1 — REV. 01 |

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FABRICATION MATERIALS

| PT NO | COMPONENT DESCRIPTION | N.S. | ITEM CODE | Q.TY | WEIGHT |
|---|---|---|---|---|---|
| 1 | Pipe ASME B36.19M PE 2,77 SML ASTM A790 UNS S32760 | 2 | PIPESD02860200 | 2111MM | 8.44 |
| 2 | 90 Deg Elbow Long Radius ASME B16.9 BW 2,77 WRS ASTM A815 UNS S32760 | 2 | E90RSD01650200 | 1 | 0.47 |
| 3 | 45 Deg Elbow Long Radius ASME B16.9 BW 2,77 WRS ASTM A815 UNS S32760 | 2 | E45RSD01550200 | 1 | 0.23 |
| 4 | Flange WN For Jackscrews ASME B16.5 150LB RF 2,77 FRG ASTM A182 Gr.F55 | 2 | FLWDSD00310200 | 1 | 2.75 |
| | | | TOTAL FABRICATION WEIGHT | | 11.89 |

ERECTION MATERIALS

| PT NO | COMPONENT DESCRIPTION | N.S. | ITEM CODE | Q.TY | WEIGHT |
|---|---|---|---|---|---|
| 5 | Gasket Flat Thk. 3 mm ASME B16.21 150LB RF GSK NEOPRENE | 2 | GFL3GK13230200 | 1 | 0.01 |
| 9 | 110 Stud Bolt + 2 Heavy Nuts ASME B1.1 ASTM A193 Gr.B7 - A194 Gr.2H Hot dip galvanized | 5/8 | SB20BO00990300 | 4 | 1.12 |
| | SUPPORTS | | | | |
| 6 | /PS-01050.1 | 2 | | 1 | 0.33 |
| 7 | /PS-01051.1 | 2 | | 1 | 0.33 |
| | | | TOTAL ERECTION WEIGHT | | 1.79 |
| | | | TOTAL WEIGHT | | 13.68 |

| REFERENCE DOCUMENTS | |
|---|---|
| 123A90-DDL-PP-RE-70001 | STRESS ANALYSIS REPORT |
| 123A90-DDL-PR-PID-80021 | P&ID |
| 123A90-DDL-MAT-SP-60003 | INSULATION SPECIFICATION |
| 123A90-DDL-MAT-SP-60006 | COATING & PAINTING SPEC. |
| 123A90-DDL-PP-00-72000 | PIPING SUPPORT BOOK |
| 123A90-DDL-PP-SP-70029 | PIPING MATERIAL CLASS |

SYMBOLS LEGEND:
BUTT WELD — THREADED — HEAT TRACING
SOCKET — PIPE SUPPORT — INSULATED

| NDT EXAMINATION | | | |
|---|---|---|---|
| NDT TYPE | % | NDT TYPE | % |
| RT | 10 | | 100 |
| INSPECTION CATEGORY | 2 | MT/PT | 10 |
| TESTING | | | |
| TEST FLUID | | TEST PRESS. (barg) | |
| N/A | | N/A | |

| PROCESS LINE DATA | | | |
|---|---|---|---|
| DESIGN TEMP. (°C) | | DESIGN PRESS. (barg) | |
| -29 | 100 | | 3.5 |

| INSULATION & PAINTING | | |
|---|---|---|
| INS. TYPE | INS. THK. | INS. SURF. (m²) |
| N | | |
| PAINT SYS. | BASE RAL | PAINT. SURF. (m²) |
| N/A | N/A | |
| HEAT TRACING | | |
| - | | |

| LINE DATA | | |
|---|---|---|
| STRESS SYS. | PED CAT. | PWHT |
| - | Art. 4, par. 3 | No |

| Revision Number | Date | Description | Prepared by | Checked by | Approved by |
|---|---|---|---|---|---|
| 01 | 29/09/25 | AS-BUILT (ASB) | SPS | CBO | CGI |
| 00 | 26/07/24 | ACCEPTED FOR CONSTRUCTION | MMA | CBO | DLO |

ROSETTI MARINO

# CROSSWIND

DWG TYTLE:

## 2"-SWR-289-01SD-N

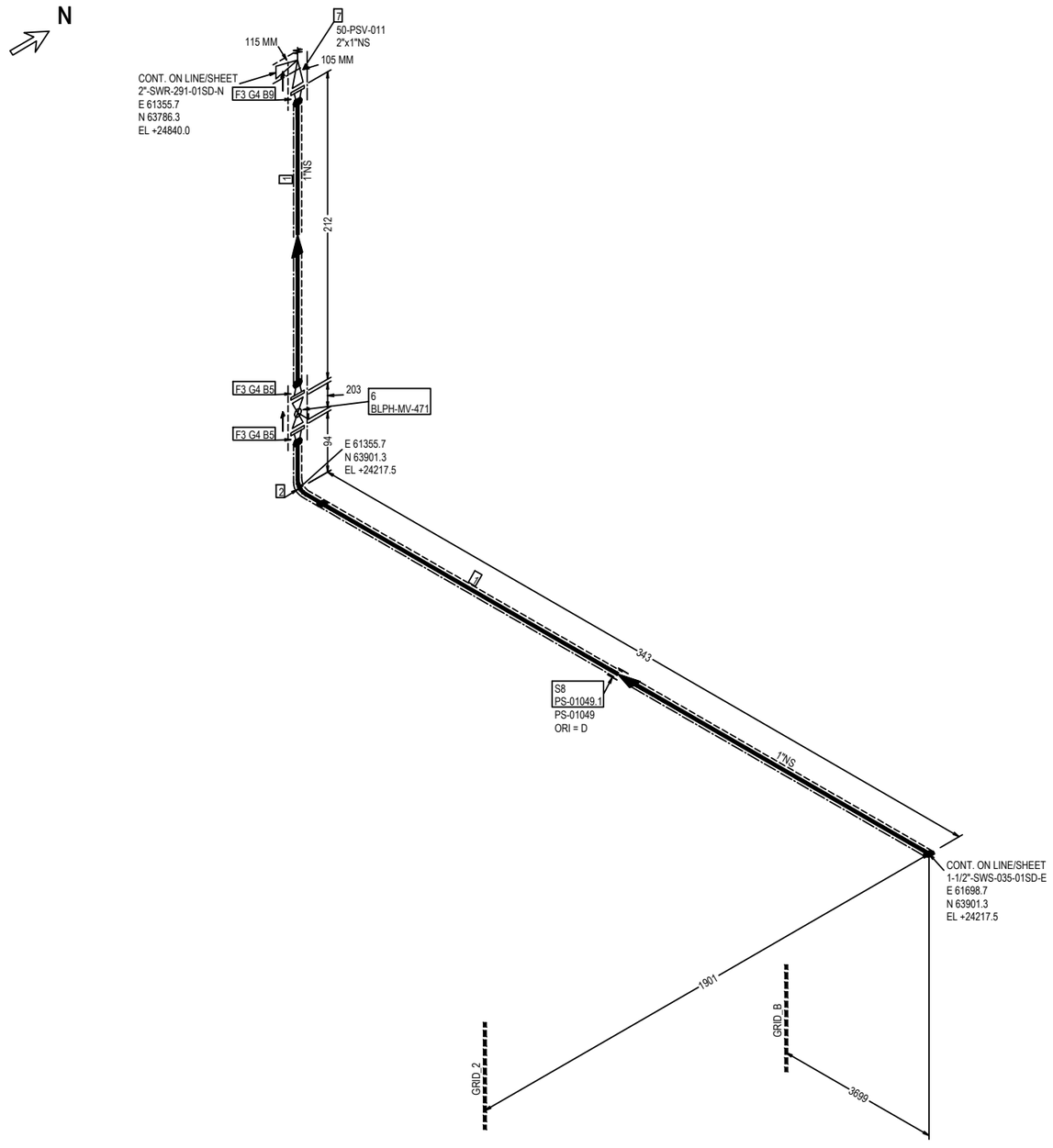
CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK

SCALE N.A.

DRAWN SPS | CHECKED CBO | APPROVED CGI | DATE 29/09/25

SIZE: A3 | DRAWING NO. 123A90-DDL-PP-DI-71000_153 | SHEET 1/1 | REV. 01

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| FABRICATION MATERIALS | | | | | |
|---|---|---|---|---|---|
| PT NO | COMPONENT DESCRIPTION | N.S. | ITEM CODE | Q.TY | WEIGHT |
| 1 | Pipe ASME B36.19M PE 3,38 SML ASTM A790 UNS S32760 | 1 | PIPESD02850100 | 405MM | 1.05 |
| 2 | 90 Deg Elbow Long Radius ASME B16.9 BW 3,38 WRS ASTM A815 UNS S32760 | 1 | E90RSD01640100 | 1 | 0.14 |
| 3 | Flange WN ASME B16.5 150LB RF 3,38 FRG ASTM A182 Gr.F55 | 1 | FLW0SD01240100 | 3 | 4.29 |
| | | | | TOTAL FABRICATION WEIGHT | 5.48 |

| ERECTION MATERIALS | | | | | |
|---|---|---|---|---|---|
| PT NO | COMPONENT DESCRIPTION | N.S. | ITEM CODE | Q.TY | WEIGHT |
| 4 | Gasket Flat Thk. 3 mm ASME B16.21 150LB RF GSK NEOPRENE | 1 | GFL3GK15970100 | 3 | 0.03 |
| 5 | 65 Stud Bolt + 2 Heavy Nuts ASME B1.1 ASTM A193 Gr.B7 - A194 Gr.2H Hot dip galvanized | 1/2 | SB20BO01080200 | 8 | 0.96 |
| 6 | Block & Bleed Valve API 6D FLG 150LB RF BS01F01RFS | 1 | VLBLNN01370100 | 1 | 12.50 |
| 9 | 105 Stud Bolt + 2 Heavy Nuts ASME B1.1 ASTM A193 Gr.B7 - A194 Gr.2H Hot dip galvanized | 1/2 | SB20BO34450200 | 4 | 0.68 |
| | INSTRUMENTS | | | | |
| 7 | SAFETY VALVE FLG.150/150#RF 50-PSV-011 | 2 x 1 | | 1 | 15.00 |
| | SUPPORTS | | | | |
| 8 | /PS-01049.1 | 1 | | 1 | 2.31 |
| | | | | TOTAL ERECTION WEIGHT | 31.48 |
| | | | | TOTAL WEIGHT | 36.96 |

| REFERENCE DOCUMENTS | |
|---|---|
| 123A90-DDL-PP-RE-70001 | STRESS ANALYSIS REPORT |
| 123A90-DDL-PR-PID-80022 | P&ID |
| 123A90-DDL-MAT-SP-60003 | INSULATION SPECIFICATION |
| 123A90-DDL-MAT-SP-60006 | COATING & PAINTING SPEC. |
| 123A90-DDL-PP-00-72000 | PIPING SUPPORT BOOK |
| 123A90-DDL-PP-SP-70029 | PIPING MATERIAL CLASS |

| NDT EXAMINATION | | | |
|---|---|---|---|
| NDT TYPE | % | NDT TYPE | % |
| RT | 10 | | 100 |
| INSPECTION CATEGORY | 2 | MT/PT | 10 |
| TESTING | | | |
| TEST FLUID | | TEST PRESS. [barg] | |
| Water | | 9.00 | |

| INSULATION & PAINTING | | |
|---|---|---|
| INS. TYPE | INS. THK. | INS. SURF. [m²] |
| H | 20mm | 0.30 |
| PAINT SYS. | BASE RAL | PAINT. SURF. [m²] |
| N/A | N/A | |
| HEAT TRACING | | |
| YES | | |

| PROCESS LINE DATA | | | |
|---|---|---|---|
| DESIGN TEMP. [°C] | | DESIGN PRESS. [barg] | |
| -29 | 100 | | 6 |

| LINE DATA | | |
|---|---|---|
| STRESS SYS. | PED CAT. | PWHT |
| - | Art. 4, par. 3 | No |

SYMBOLS LEGEND:
BUTT WELD · THREADED · HEAT TRACING · SOCKET · PIPE SUPPORT · INSULATED

| Revision Number | Date | Description | Prepared by | Checked by | Approved by |
|---|---|---|---|---|---|
| 01 | 29/09/25 | AS-BUILT (ASB) | SPS | CBO | CGI |
| 00 | 26/07/24 | ACCEPTED FOR CONSTRUCTION | MMA | CBO | DLO |

ROSETTI MARINO

# CROSSWIND

DWG TYTLE:

## 1"-SWS-290-01SD-E

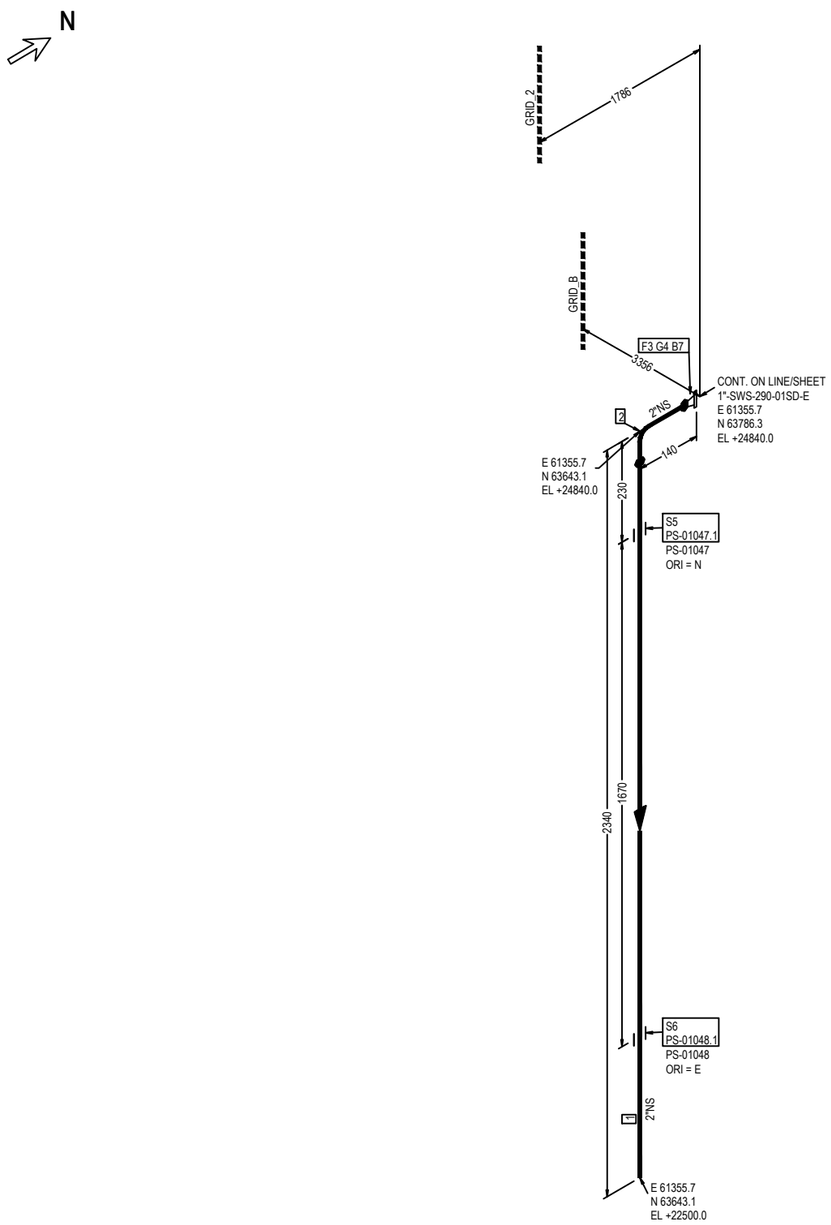
CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK

SCALE N.A.

DRAWN SPS | CHECKED CBO | APPROVED CGI | DATE 29/09/25

SIZE: A3 | DRAWING NO. 123A90-DDL-PP-DI-71000_154 | SHEET 1/1 | REV. 01

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FABRICATION MATERIALS

| PT NO | COMPONENT DESCRIPTION | N.S. | ITEM CODE | Q.TY | WEIGHT |
|---|---|---|---|---|---|
| 1 | Pipe ASME B36.19M PE 2,77 SML ASTM A790 UNS S32760 | 2 | PIPESD02860200 | 2264MM | 9.06 |
| 2 | 90 Deg Elbow Long Radius ASME B16.9 BW 2,77 WRS ASTM A815 UNS S32760 | 2 | E90RSD01650200 | 1 | 0.47 |
| 3 | Flange WN For Jackscrews ASME B16.5 150LB RF 2,77 FRG ASTM A182 Gr.F55 | 2 | FLWDSD00310200 | 1 | 2.75 |
| | | | TOTAL FABRICATION WEIGHT | | 12.28 |

ERECTION MATERIALS

| PT NO | COMPONENT DESCRIPTION | N.S. | ITEM CODE | Q.TY | WEIGHT |
|---|---|---|---|---|---|
| 4 | Gasket Flat Thk. 3 mm ASME B16.21 150LB RF GSK NEOPRENE | 2 | GFL3GK13230200 | 1 | 0.01 |
| 9 | 110 Stud Bolt + 2 Heavy Nuts ASME B1.1 ASTM A193 Gr.B7 - A194 Gr.2H Hot dip galvanized | 5/8 | SB20BO00990300 | 4 | 1.12 |
| | SUPPORTS | | | | |
| 5 | /PS-01047.1 | 2 | | 1 | 0.33 |
| 6 | /PS-01048.1 | 2 | | 1 | 0.33 |
| | | | TOTAL ERECTION WEIGHT | | 1.79 |
| | | | TOTAL WEIGHT | | 14.07 |

| REFERENCE DOCUMENTS | | NDT EXAMINATION | | | | INSULATION & PAINTING | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 123A90-DDL-PP-RE-70001 | STRESS ANALYSIS REPORT | NDT TYPE | % | NDT TYPE | % | INS. TYPE | INS. THK. | INS. SURF. (m²) | | | | | | |
| 123A90-DDL-PR-PID-80022 | P&ID | RT | 10 | | 100 | N | | | | | | | | |
| 123A90-DDL-MAT-SP-60003 | INSULATION SPECIFICATION | INSPECTION CATEGORY | 2 | MT/PT | 10 | PAINT SYS. | BASE RAL | PAINT. SURF. (m²) | | | | | | |
| 123A90-DDL-MAT-SP-60006 | COATING & PAINTING SPEC. | TESTING | | | | N/A | N/A | | | | | | | |
| 123A90-DDL-PP-00-72000 | PIPING SUPPORT BOOK | TEST FLUID | | TEST PRESS. (barg) | | HEAT TRACING | | | | | | | | |
| 123A90-DDL-PP-SP-70029 | PIPING MATERIAL CLASS | N/A | | N/A | | - | | | | | | | | |
| SYMBOLS LEGEND: | | PROCESS LINE DATA | | | | LINE DATA | | | 01 | 29/09/25 | AS-BUILT (ASB) | SPS | CBO | CGI |
| BUTT WELD THREADED HEAT TRACING | | DESIGN TEMP. (°C) | | DESIGN PRESS. (barg) | | STRESS SYS. | PED CAT. | PWHT | 00 | 26/07/24 | ACCEPTED FOR CONSTRUCTION | MMA | CBO | DLO |
| SOCKET PIPE SUPPORT INSULATED | | -29 | 100 | | 3.5 | - | Art. 4, par. 3 | No | Revision Number | Date | Description | Prepared by | Checked by | Approved by |

ROSETTI MARINO

# CROSSWIND

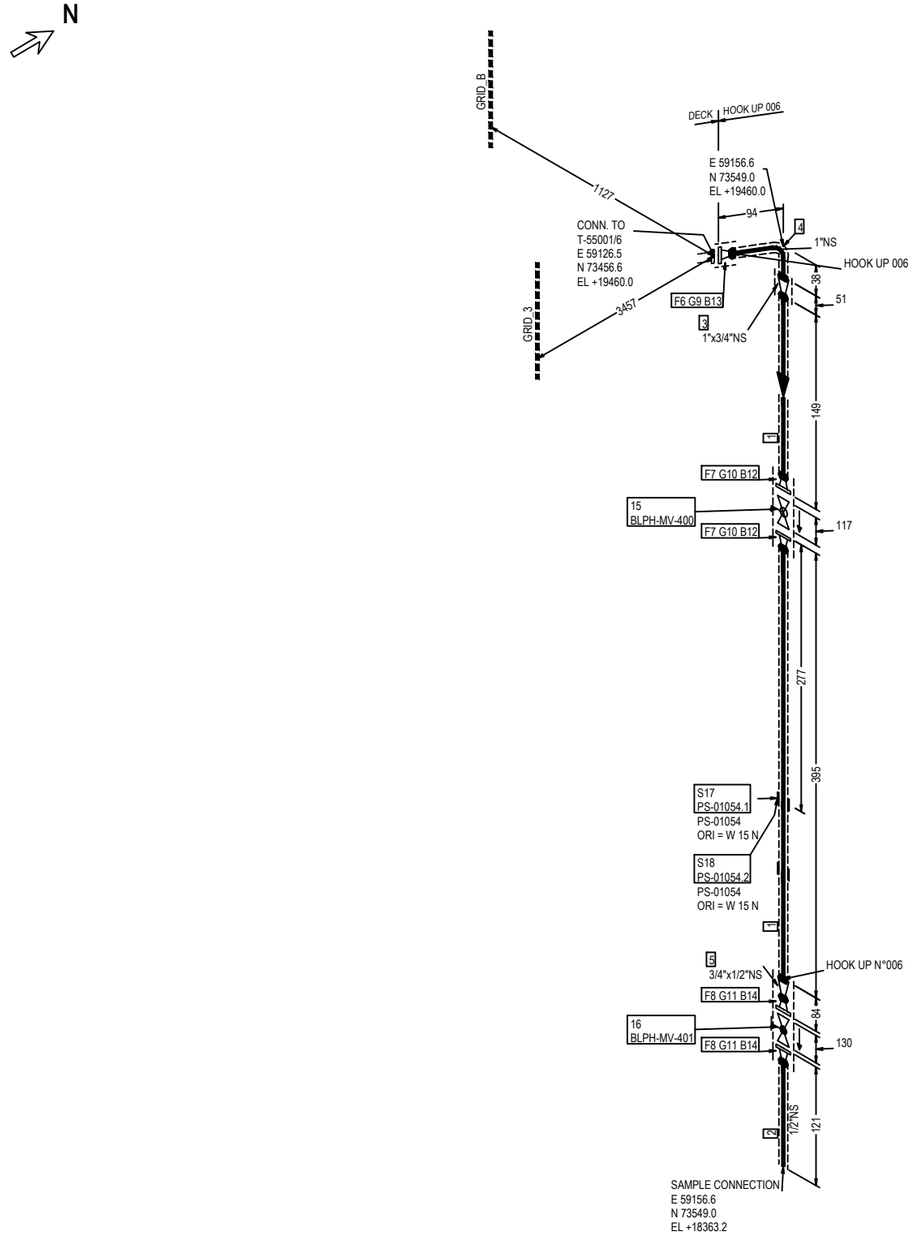
DWG TYTLE:

## 2"-SWR-291-01SD-N

| CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK | | | SCALE N.A. |
|---|---|---|---|
| DRAWN SPS | CHECKED CBO | APPROVED CGI | DATE 29/09/25 |

| SIZE: | DRAWING NO. | SHEET | REV. |
|---|---|---|---|
| A3 | 123A90-DDL-PP-DI-71000_155 | 1/1 | 01 |

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FABRICATION MATERIALS

| PT NO | COMPONENT DESCRIPTION | N.S. | ITEM CODE | Q.TY | WEIGHT |
|---|---|---|---|---|---|
| 1 | Pipe ASME B36.10M PE 3,91 SML ASTM/ASME A/SA333 Gr.6 | 3/4 | PIPECS08293Q00 | 442MM | 0.97 |
| 2 | Pipe ASME B36.10M PE 3,73 SML ASTM/ASME A/SA333 Gr.6 | 1/2 | PIPECS10360H00 | 75MM | 0.12 |
| 3 | Reducer Concentric ASME B16.9 BW 4,55x3,91 WRS ASTM/ASME A/SA420 Gr.WPL6 | 1 x 3/4 | REC0CS2203013Q | 1 | 0.18 |
| 4 | 90 Deg Elbow Long Radius ASME B16.9 BW 4,55 WRS ASTM/ASME A/SA420 Gr.WPL6 | 1 | E90RCS01780100 | 1 | 0.18 |
| 5 | Reducer Concentric ASME B16.9 BW 3,91x3,73 WRS ASTM/ASME A/SA420 Gr.WPL6 | 3/4 x 1/2 | REC0CS22003Q0H | 1 | 0.08 |
| 6 | Flange WN For Jackscrews ASME B16.5 150LB RF 4,55 FRG ASTM/ASME A/SA350 Gr.LF2 | 1 | FLWDCS02740100 | 1 | 1.40 |
| 7 | Flange WN ASME B16.5 150LB FF 3,91 FRG ASTM/ASME A/SA350 Gr.LF2 | 3/4 | FLW0CS22243Q00 | 2 | 1.80 |
| 8 | Flange WN ASME B16.5 150LB FF 3,73 FRG ASTM/ASME A/SA350 Gr.LF2 | 1/2 | FLW0CS22230H00 | 2 | 1.80 |
| | | | TOTAL FABRICATION WEIGHT | | 6.53 |

ERECTION MATERIALS

| PT NO | COMPONENT DESCRIPTION | N.S. | ITEM CODE | Q.TY | WEIGHT |
|---|---|---|---|---|---|
| 9 | Gasket Spiral Wound Thk. 3.2 mm ASME B16.20 150LB RF GSK AISI 316 + GRAPHITE c/w INNER RING | 1 | GSW0GK11100100 | 1 | 0.06 |
| 10 | Insulation Kit Ends as per ASME B16.5 150LB FF | 3/4 | SPIKNN01253Q00 | 2 | 0.08 |
| 11 | Insulation Kit Ends as per ASME B16.5 150LB FF | 1/2 | SPIKNN01240H00 | 2 | 0.06 |
| 12 | 80 Stud Bolt + 2 Heavy Nuts ASME B1.1 ASTM A193 Gr.B7 - A194 Gr.2H Hot dip galvanized | 1/2 | SB20BO00980200 | 8 | 1.04 |
| 13 | 65 Stud Bolt + 2 Heavy Nuts ASME B1.1 ASTM A193 Gr.B7 - A194 Gr.2H Hot dip galvanized | 1/2 | SB20BO01080200 | 4 | 0.48 |
| 14 | 65 Stud Bolt + 2 Heavy Nuts ASME B1.1 ASTM A193 Gr.B7 - A194 Gr.2H Hot dip galvanized | 1/2 | SB20BO01080200 | 8 | 0.96 |
| 15 | Ball Valve Split Body FB Manuf.s STD FLG 150LB FF BA01P01KT | 3/4 | VBC0NN24893Q00 | 1 | 7.00 |
| 16 | Globe Valve Manuf.s STD FLG 150LB FF HS01P01KT | 1/2 | VDA0NN16150H00 | 1 | 3.80 |
| | SUPPORTS | | | | |
| 17 | /PS-01054.1 | 3/4 | | 1 | 2.22 |
| 18 | /PS-01054.2 | 3/4 | | 1 | 0.69 |
| | | | TOTAL ERECTION WEIGHT | | 16.39 |
| | | | TOTAL WEIGHT | | 22.92 |

| REFERENCE DOCUMENTS | |
|---|---|
| 123A90-DDL-PP-RE-70001 | STRESS ANALYSIS REPORT |
| 123A90-DDL-PR-PID-80026 | P&ID |
| 123A90-DDL-MAT-SP-60003 | INSULATION SPECIFICATION |
| 123A90-DDL-MAT-SP-60006 | COATING & PAINTING SPEC. |
| 123A90-DDL-PP-00-72000 | PIPING SUPPORT BOOK |
| 123A90-DDL-PP-SP-70029 | PIPING MATERIAL CLASS |

SYMBOLS LEGEND:
BUTT WELD — THREADED — HEAT TRACING
SOCKET — PIPE SUPPORT — INSULATED

| NDT EXAMINATION | | | |
|---|---|---|---|
| NDT TYPE | % | NDT TYPE | % |
| RT | 10 | | 100 |
| INSPECTION CATEGORY | 2 | MT/PT | 10 |
| TESTING | | | |
| TEST FLUID | | TEST PRESS.(barg) | |
| Water | | 5.25 | |
| PROCESS LINE DATA | | | |
| DESIGN TEMP. (°C) | | DESIGN PRESS.(barg) | |
| -46 | 100 | | 3.5 |

| INSULATION & PAINTING | | |
|---|---|---|
| INS. TYPE | INS. THK. | INS. SURF. (m²) |
| H | 20mm | 0.24 |
| PAINT SYS. | BASE RAL | PAINT. SURF. (m²) |
| 9 | N/A | 0.10 |
| HEAT TRACING | | |
| - | | |
| LINE DATA | | |
| STRESS SYS. | PED CAT. | PWHT |
| - | Art. 4, par. 3 | No |

| Revision Number | Date | Description | Prepared by | Checked by | Approved by |
|---|---|---|---|---|---|
| 01 | 29/09/25 | AS-BUILT (ASB) | SPS | CBO | CGI |
| 00 | 26/07/24 | ACCEPTED FOR CONSTRUCTION | MMA | CBO | DLO |

ROSETTI MARINO

# CROSSWIND

DWG TYTLE:

# 1"-WW-292-01CS-H

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK

SCALE N.A.

DRAWN SPS | CHECKED CBO | APPROVED CGI | DATE 29/09/25

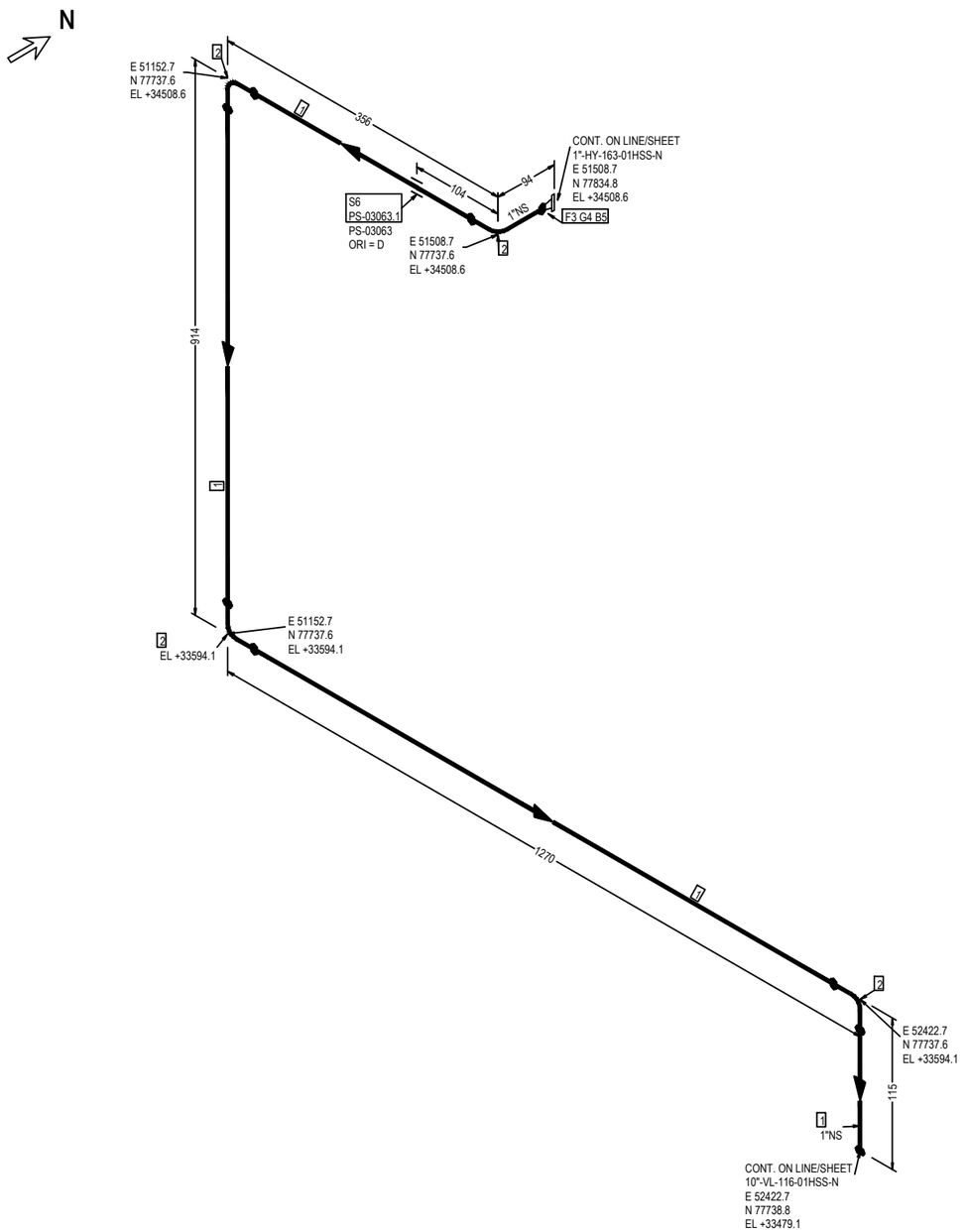
SIZE: A3

DRAWING NO. 123A90-DDL-PP-DI-71000_156

SHEET 1/1

REV. 01

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FABRICATION MATERIALS

| PT NO | COMPONENT DESCRIPTION | N.S. | ITEM CODE | Q.TY | WEIGHT |
|---|---|---|---|---|---|
| 1 | Pipe ASME B36.19M PE 3,38 SML ASTM A312 Gr.TP316/316L | 1 | PIPESS00480100 | 2389MM | 5.97 |
| 2 | 90 Deg Elbow Long Radius ASME B16.9 BW 3,38 WRS ASTM A403 Gr.WP316/316L | 1 | E90RSS00670100 | 4 | 0.56 |
| 3 | Flange WN ASME B16.5 150LB RF 3,38 FRG ASTM A182 Gr.F316/316L | 1 | FLW0SS00930100 | 1 | 1.42 |
| | | | TOTAL FABRICATION WEIGHT | | 7.95 |

ERECTION MATERIALS

| PT NO | COMPONENT DESCRIPTION | N.S. | ITEM CODE | Q.TY | WEIGHT |
|---|---|---|---|---|---|
| 4 | Gasket Spiral Wound Thk. 3.2 mm ASME B16.20 150LB RF GSK AISI 316 + GRAPHITE c/w INNER RING | 1 | GSW0GK11100100 | 1 | 0.06 |
| 5 | 65 Stud Bolt + 2 Heavy Nuts ASME B1.1 ASTM A193 Gr.B7 - A194 Gr.2H Hot dip galvanized | 1/2 | SB20BO01080200 | 4 | 0.48 |
| | SUPPORTS | | | | |
| 6 | /PS-03063.1 | 1 | | 1 | 0.19 |
| | | | TOTAL ERECTION WEIGHT | | 0.73 |
| | | | TOTAL WEIGHT | | 8.68 |

| REFERENCE DOCUMENTS | |
|---|---|
| 123A90-DDL-PP-RE-70001 | STRESS ANALYSIS REPORT |
| 123A90-DDL-PR-PID-80012 | P&ID |
| 123A90-DDL-MAT-SP-60003 | INSULATION SPECIFICATION |
| 123A90-DDL-MAT-SP-60006 | COATING & PAINTING SPEC. |
| 123A90-DDL-PP-00-72000 | PIPING SUPPORT BOOK |
| 123A90-DDL-PP-SP-70029 | PIPING MATERIAL CLASS |

SYMBOLS LEGEND:
BUTT WELD — THREADED — HEAT TRACING
SOCKET — PIPE SUPPORT — INSULATED

| NDT EXAMINATION | | | |
|---|---|---|---|
| NDT TYPE | % | NDT TYPE | % |
| RT | 100 | VT | 100 |
| INSPECTION CATEGORY | 1 | MT/PT | 100Ratio |
| TESTING | | | |
| TEST FLUID | | TEST PRESS. (barg) | |
| Water | | 5.25 | |
| PROCESS LINE DATA | | | |
| DESIGN TEMP. (°C) | | DESIGN PRESS. (barg) | |
| -29 | 100 | | 3.5 |

| INSULATION & PAINTING | | |
|---|---|---|
| INS. TYPE | INS. THK. | INS. SURF. (m²) |
| N | | |
| PAINT SYS. | BASE RAL | PAINT. SURF. (m²) |
| 6A | RAL 9002 | 0.28 |
| HEAT TRACING | | |
| - | | |
| LINE DATA | | |
| STRESS SYS. | PED CAT. | PWHT |
| - | Art. 4, par. 3 | No |

| Revision Number | Date | Description | Prepared by | Checked by | Approved by |
|---|---|---|---|---|---|
| 01 | 29/09/25 | AS-BUILT (ASB) | SPS | CBO | CGI |
| 00 | 12/07/24 | ACCEPTED FOR CONSTRUCTION | MMA | CBO | DLO |

ROSETTI MARINO

# CROSSWIND

DWG TYTLE:

## 1"-VL-293-01HSS-N

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK

SCALE N.A.

DRAWN SPS | CHECKED CBO | APPROVED CGI | DATE 29/09/25

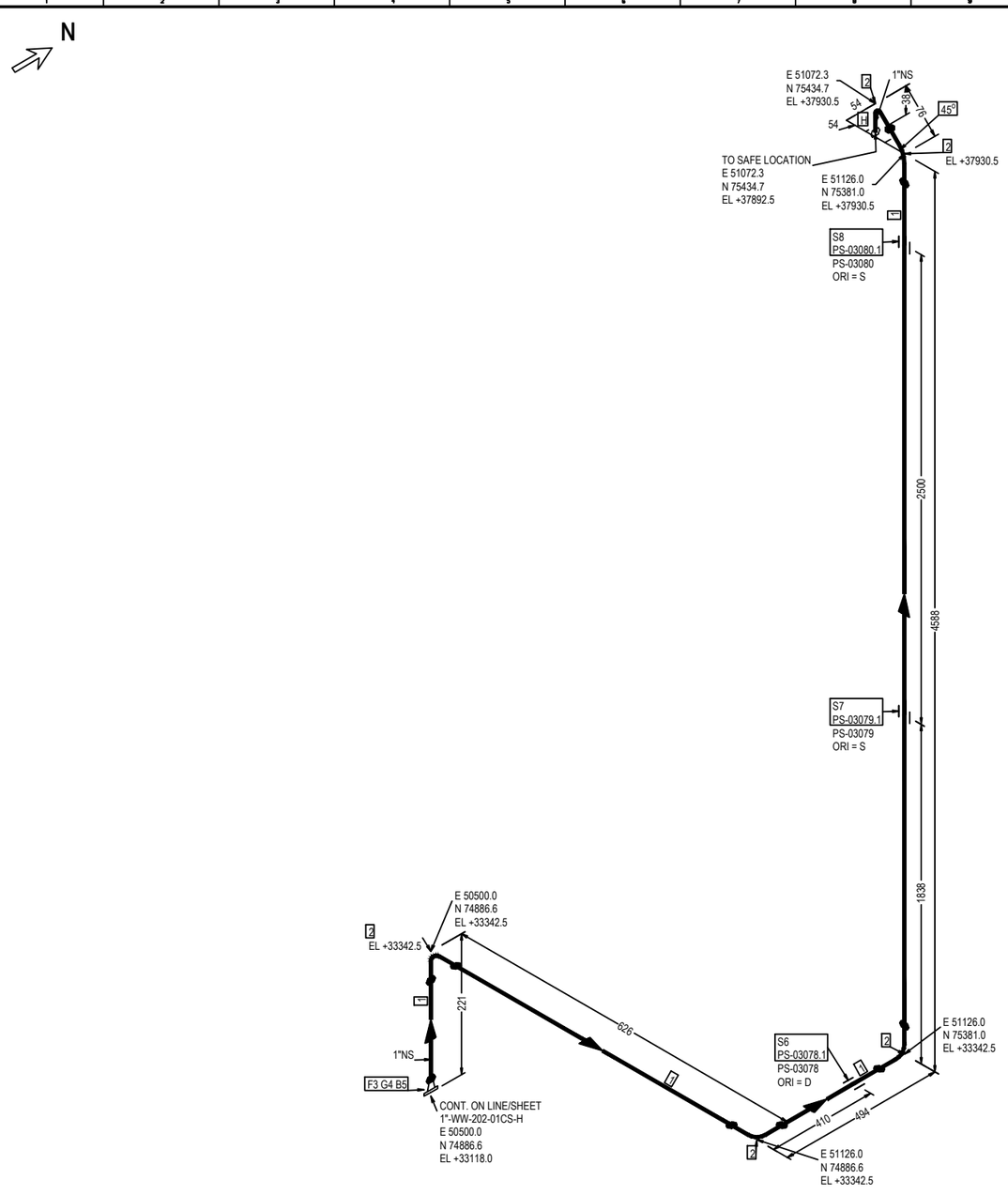
SIZE: A3

DRAWING NO. 123A90-DDL-PP-DI-71000_157

SHEET 1/1

REV. 01

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FABRICATION MATERIALS

| PT NO | COMPONENT DESCRIPTION | N.S. | ITEM CODE | Q.TY | WEIGHT |
|---|---|---|---|---|---|
| 1 | Pipe ASME B36.10M PE 4,55 SML ASTM/ASME A/SA333 Gr.6 | 1 | PIPECS08300100 | 5607MM | 17.94 |
| 2 | 90 Deg Elbow Long Radius ASME B16.9 BW 4,55 WRS ASTM/ASME A/SA420 Gr.WPL6 | 1 | E90RCS01780100 | 5 | 0.90 |
| 3 | Flange WN ASME B16.5 150LB RF 4,55 FRG ASTM/ASME A/SA350 Gr.LF2 | 1 | FLW0CS16540100 | 1 | 1.40 |
| | | | TOTAL FABRICATION WEIGHT | | 20.24 |

ERECTION MATERIALS

| PT NO | COMPONENT DESCRIPTION | N.S. | ITEM CODE | Q.TY | WEIGHT |
|---|---|---|---|---|---|
| 4 | Gasket Spiral Wound Thk. 3.2 mm ASME B16.20 150LB RF GSK AISI 316 + GRAPHITE c/w INNER RING | 1 | GSW0GK11100100 | 1 | 0.06 |
| 5 | 65 Stud Bolt + 2 Heavy Nuts ASME B1.1 ASTM A193 Gr.B7 - A194 Gr.2H Hot dip galvanized | 1/2 | SB20BO01080200 | 4 | 0.00 |
| | SUPPORTS | | | | |
| 6 | /PS-03078.1 | 1 | | 1 | 0.02 |
| 7 | /PS-03079.1 | 1 | | 1 | 0.19 |
| 8 | /PS-03080.1 | 1 | | 1 | 0.19 |
| | | | TOTAL ERECTION WEIGHT | | 0.46 |
| | | | TOTAL WEIGHT | | 20.70 |

| REFERENCE DOCUMENTS | |
|---|---|
| 123A90-DDL-PP-RE-70001 | STRESS ANALYSIS REPORT |
| 123A90-DDL-PR-PID-80029 | P&ID |
| 123A90-DDL-MAT-SP-60003 | INSULATION SPECIFICATION |
| 123A90-DDL-MAT-SP-60006 | COATING & PAINTING SPEC. |
| 123A90-DDL-PP-00-72000 | PIPING SUPPORT BOOK |
| 123A90-DDL-PP-SP-70029 | PIPING MATERIAL CLASS |

SYMBOLS LEGEND:
BUTT WELD — THREADED — HEAT TRACING
SOCKET — PIPE SUPPORT — INSULATED

| NDT EXAMINATION | | | |
|---|---|---|---|
| NDT TYPE | % | NDT TYPE | % |
| RT | 10 | VT | 100 |
| INSPECTION CATEGORY | 2 | MT/PT | 10 |
| TESTING | | | |
| TEST FLUID | | TEST PRESS. (barg) | |
| N/A | | N/A | |
| PROCESS LINE DATA | | | |
| DESIGN TEMP. (°C) | | DESIGN PRESS. (barg) | |
| unset | unset | | 3.5 |

| INSULATION & PAINTING | | |
|---|---|---|
| INS. TYPE | INS. THK. | INS. SURF. (m²) |
| | | |
| PAINT SYS. | BASE RAL | PAINT. SURF. (m²) |
| 1 | RAL 9002 | 0.62 |
| HEAT TRACING | | |
| - | | |
| LINE DATA | | |
| STRESS SYS. | PED CAT. | PWHT |
| . | Art. 4, par. 3 | No |

| Revision Number | Date | Description | Prepared by | Checked by | Approved by |
|---|---|---|---|---|---|
| 01 | 29/09/25 | AS-BUILT (ASB) | SPS | CBO | CGI |
| 00 | 26/07/24 | ACCEPTED FOR CONSTRUCTION | MMA | CBO | DLO |

ROSETTI MARINO

# CROSSWIND

DWG TYTLE:

# 1"-AV-294-01CS-N

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK

SCALE N.A.

DRAWN SPS | CHECKED CBO | APPROVED CGI | DATE 29/09/25

SIZE: A3

DRAWING NO. 123A90-DDL-PP-DI-71000_158

SHEET 1/1

REV. 01

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