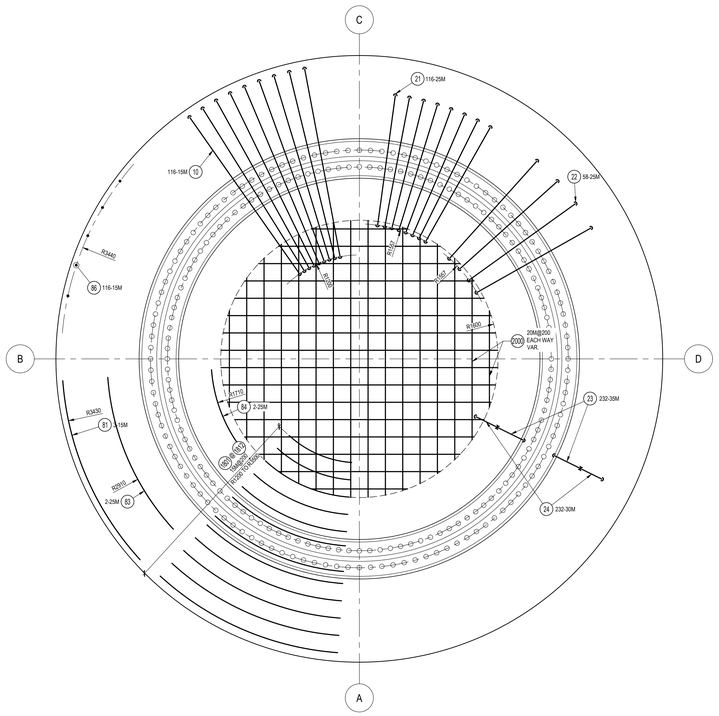
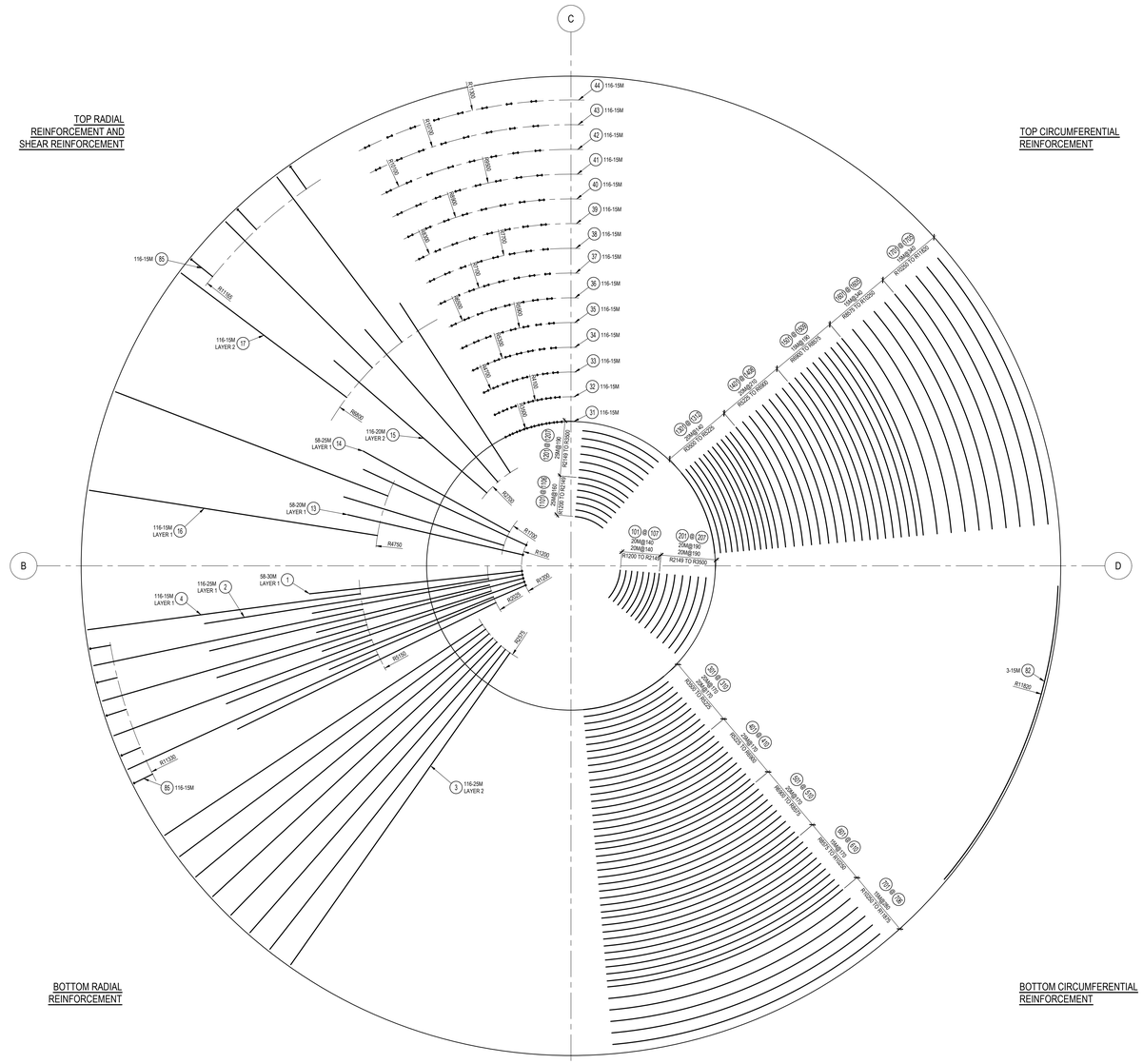



PEDESTAL - PLAN VIEW
SHEAR AND MID REINFORCEMENT
1:25

TOP RADIAL
REINFORCEMENT AND
SHEAR REINFORCEMENT

TOP CIRCUMFERENTIAL
REINFORCEMENT




BOTTOM RADIAL
REINFORCEMENT

BOTTOM CIRCUMFERENTIAL
REINFORCEMENT

PLAN VIEW
1:50

SPECIFICATIONS ACCORDING TO
CAN/CSA A23.1, A23.2, A23.3

| | | |
|---|---|---|
| CONCRETE MAIN FOUNDATION : | 35 MPa | EXPOSURE CLASS |
| CONCRETE PEDESTAL : | 45 MPa | BY CSA : F-1 |
| CONCRETE CONSTRUCTION SLAB : | 15 MPa | |

| CONCRETE COVER | | | REINFORCEMENT STEEL |
|---|---|---|---|
| TOP 55 mm | BOTTOM 55 mm | SIDE 55 mm | CAN/CSA G30.18 |
| | | | GRADE : 500W |

| CONCRETE QUANTITY | QUANTITY (METRIC TON) |
|---|---|
| MAIN FOUNDATION, 35 MPa : | 654 m³ |
| PEDESTAL, 45 MPa : | 23 m³ |
| TOTAL : | 677 m³ |

FOUNDATION : ±48.1

ENERCON E-138 EP3 E2-ST-111-FB-C-01

| LOAD CASE | DESCRIPTION | $F_Z$ MAX (kN) | $F_Z$ MIN (kN) | $F_{XY}$ (kN) | $M_{XY}$ (kN·m) | $M_Z$ (kN·m) |
|---|---|---|---|---|---|---|
| DLC D.3 (UNFACTORED) | NORMAL | -5,270 | -6,020 | 730 | 65,750 | 0 |
| DLC 6.2 (UNFACTORED) | EXTREME NORMAL | -5,270 | -6,020 | 1,060 | 102,700 | 9,500 |
| GROUP N/AT (UNFACTORED) | EXTREME ABNORMAL | -5,270 | -6,030 | 1,070 | 102,700 | 10,650 |
| GROUP N/AT (FACTORED) | EXTREME ABNORMAL | -4,750 | -6,630 | 1,470 | 137,350 | 12,800 |

REFERENCE DOCUMENT: D0025885-1, DATED 2019-06-18
DESIGN SERVICE LIFE: 25 YEARS

NOTES:

1. ERECTION REINFORCEMENT TO BE SUPPLIED BY THE FOUNDATION CONTRACTOR.
2. ERECTION REINFORCEMENT SHALL BE DESIGNED AND SHOWN ON THE REINFORCEMENT SHOP DRAWINGS AND IS THE RESPONSIBILITY OF THE FOUNDATION CONTRACTOR.
3. WEIGHT OF SUCH ERECTION REINFORCEMENT HAS NOT BEEN INCLUDED IN THE REINFORCEMENT QUANTITY STATED ABOVE AND SHALL BE ESTIMATED BY THE FOUNDATION CONTRACTOR.

wsp
1135 LEBOURGNEUF BOULEVARD
QUÉBEC (QUÉBEC) CANADA G2K 0M5
TEL.: 418-623-2254 | FAX: 418-624-1857 | WWW.WSPGROUP.COM

SEAL :

CLIENT :

PEIENERGY CORPORATION

CLIENT REF. # : -

PROJECT :

EASTERN KINGS
WIND PLANT
PHASE 2

ELMIRA, KINGS COUNTY,
PRINCE EDWARD ISLAND, CANADA

DISCLAIMER :
THIS DRAWING AND DESIGN IS COPYRIGHT PROTECTED WHICH SHALL NOT BE USED, REPRODUCED OR REVISED WITHOUT WRITTEN PERMISSION BY WSP. THE CONTRACTOR SHALL CHECK AND VERIFY ALL DIMENSIONS AND UTILITY LOCATIONS AND REPORT ALL ERRORS AND OMISSIONS PRIOR TO COMMENCING WORK.
THIS DRAWING IS NOT TO BE SCALED.

ISSUED FOR - REVISION :

| IS | REV. | DATE | DESCRIPTION |
|---|---|---|---|
| | B | 2020-08-07 | FOR FINAL COMMENTS |
| | A | 2020-04-09 | FOR COMMENTS - 90% |

PROJECT NO : 191-12540-00
DATE : 2020-04-09
ORIGINAL SCALE : AS SHOWN
DESIGNED BY : S. MANELLA, P. ENG.
DRAWN BY : C. NTSIBA
CHECKED BY : M. PLAMONDON RATTÉ, P. ENG.
IF THIS BAR IS NOT 25 mm LONG, ADJUST YOUR PLOTTING SCALE.
25 mm

DISCIPLINE : STRUCTURAL

TITLE :
**ENERCON E-138 EP3 E2-ST-111-FB-C-01**
**SHALLOW FOUNDATION**
**WITH BUOYANCY**
**PLAN VIEW REINFORCEMENT**

WSP NUMBER :
**191-12540-00-EKW-S-104**

SHEET # : 01 OF 01

ISSUED : **FOR FINAL COMMENTS** — REV. # : **0**

DATE OF : 2020-08-07

THIS DRAWING MUST BE USED WITH PLAN:
191-12540-00-EKW-S-100
191-12540-00-EKW-S-101
191-12540-00-EKW-S-102
191-12540-00-EKW-S-103
191-12540-00-EKW-S-105

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