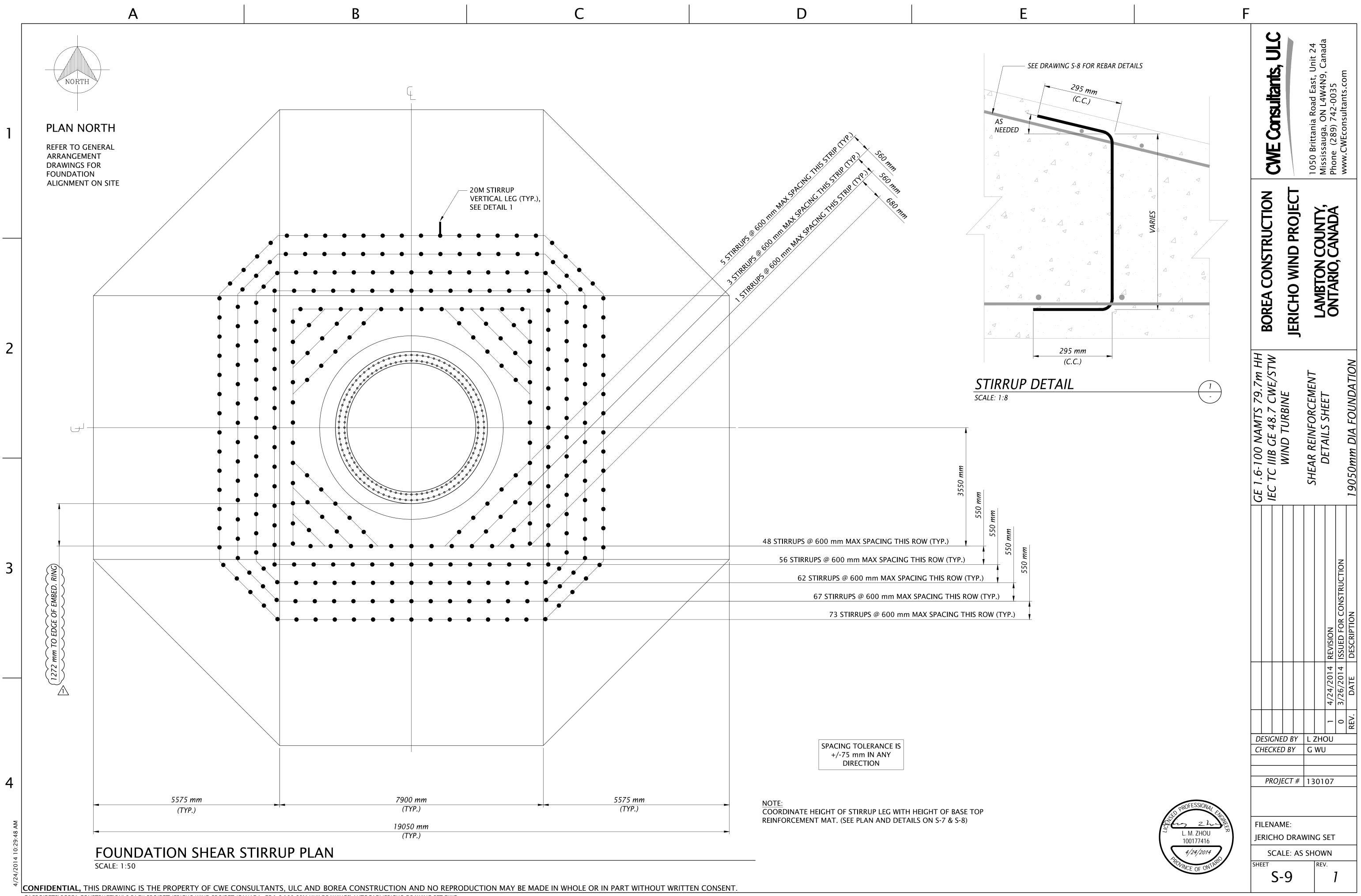


C:\PROJECTS\BOREA CONSTRUCTION\6-PACK PROJECT\JERICHO WIND PROJECT (CANADA, GE 1.6-100 80M HH)\DRAWINGS\AUTOCAD\JERICHO DRAWING SET.DWG



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A	B	C	D
L CONCRETE CONSTRUCTION SHALL CONFORM TO ALL REQUIREMENTS OF CSA 23.1/A23.2 PUBLISHED BY THE CANADIAN STANDARDS ASSOCIATION, EXCEPT AS DDIFIED BY THESE DESIGN DRAWINGS.	I. REQUIRED GROUND IMPROVEMENT TECHNIQUES BEYOND OVEREXCAVATION (IF ANY) SHALL SHALL BE COORDINATEE THE GEOTECHNICAL ENGINEER OF RECORD.	SOILS SHALL BE COMPACTED TO A MINIMUM OF 98% OF THE MAXIMUM DRY DENSITY AS DETERMINED BY ASTM D698 AND	
RBINE REFERENCE DATA: TR-1 TURBINE TYPE: GE 1.6-100 NAMTS 79.7m HH IEC TC IIIB GE 48.7 CWE/STW.	J. WHERE THE FOUNDATION SUBGRADES ARE OR BECOME FRO FROZEN SOILS SHALL BE COMPLETELY REMOVED FROM BELO FOUNDATION AND ITS OVERSIZE AREA. THE FROZEN SOILS REPLACED BY SUITABLY MOISTURE CONDITIONED AND COM	OW THE CONTENT.	A. BACKFILL EQUIPMENT SHALL NOT COME IN CONTACT WITH THE
TR-2 TOWER FOUNDATION DESIGN LOADINGS PROVIDED BY GE ENERGY "LOAD SPECIFICATION FOR THE FOUNDATION OF THE WIND TURBINE GENERATOR SYSTEM, GE'S 1.6-100 RNAMTS WITH 79.7m HH TC IIIB GE	SOILS. IF THE REPLACEMENT IS PERFORMED IN NEAR- OR B FREEZING TEMPERATURES, ONLY THE PLACEMENT OF GRAN MATERIALS WILL SUFFICE. TURBINE FOUNDATIONS SHALL I CONSTRUCTED OVER FROZEN SOILS OR A FROZEN MUD MA	ELOW- THE TRANSFORMER PADS AND STAIR PADS. IULAR NOT BE GD-4 STRUCTURAL FILL TO BE PLACED BELOW THE TURBINE FOUNDATION	EQUIPMENT SHALL BE USED TO COMPACT THE BACKFILL UNLESS THERE IS A MINIMUM OF 300 mm OF BACKFILL MATERIAL BETWEEN THE FOUNDATION CONCRETE BASE SURFACE AND THE COMPACTION EQUIPMENT AT ALL TIMES. VIBRATORY COMPACTION EQUIPMENT
<ul> <li>48.7 60 HZ CWE/STW" DATED APRIL 22, 2011 REV. C.</li> <li>TR-3 TURBINE TOWER FLANGE GEOMETRY PROVIDED BY GE ENERGY "LOAD SPECIFICATION FOR THE FOUNDATION OF THE WIND TURBINE GENERATOR SYSTEM, GE'S 1.6-100 RNAMTS WITH 79.7m HH TC IIIB GE</li> </ul>	K. STRIPPING, EXCAVATION, GRADING, AND SUBGRADE PREPA SHALL BE PERFORMED IN A MANNER AND SEQUENCE THAT PROVIDE POSITIVE DRAINAGE THROUGHOUT CONSTRUCTIO PROVIDE PROPER CONTROL OF EROSION.	WILL THE GEOTECHNICAL ENGINEER OF RECORD PRIOR TO ITS USE. DN AND B. STRUCTURAL FILL SHALL BE COMPACTED TO A MINIMUM OF 100	GD-14 WHEN TURBINE IS FULLY ERECTED AND OPERATIONAL, NO
48.7 60 HZ CWE/STW" FIGURE 8 DATED APRIL 22, 2011 REV. C.	L. PONDING OF WATER NEAR THE FOUNDATION ELEMENTS FR IMPROPER DRAINAGE SHALL NOT BE PERMITTED.	COM THE MAXIMUM DRY DENSITY AS DETERMINED BY ASTM D698 AN MOISTURE CONDITIONED WITHIN 2% OF OPTIMUM MOISTURE CONTENT.	OVER THE FOUNDATION FOOTPRINT.
<ul><li>SC-1 DESIGN BUILDING CODE: ONTARIO BUILDING CODE, 2006.</li><li>SC-2 REINFORCED CONCRETE CODE: CSA A23.3-2004.</li></ul>	<ol> <li>ACCUMULATED WATER SHALL BE REMOVED FROM SUB AND WORK AREAS IMMEDIATELY PRIOR TO PERFORMIN FURTHER WORK IN THE AREA.</li> </ol>	WELL-GRADED INORGANIC GRANULAR SOILS.	C-1 28-DAY CONCRETE COMPRESSIVE STRENGTH, FOR BASE: 35 MPa, FOR PEDESTAL: 35 MPa.
SC-3 STEEL CODE: CSA S16-09. MIC PARAMETERS:	<ol> <li>THE PLANNED SITE WORK AREAS SHALL BE GRADED TO WATER FROM PONDING IN CONSTRUCTION AREAS ANI FLOWING INTO EXPOSED SUBGRADE AREAS.</li> </ol>		
P-1 SPECTRAL ACCELERATIONS: A. S <sub>a(0,2)</sub> : 0.143.	3. EXPOSED SOILS SHALL BE CROWNED, SLOPED, AND SMOOTH-DRUM ROLLED AT THE END OF THE DAY TO FACILITATE DRAINAGE IF INCLEMENT WEATHER IS FOR	ACCORDINGLY.	C-3 CEMENT: CSA A3001, TYPE HS or HSb. C-4 FLY ASH (IF USED): CSA A3001, CLASS F ONLY (CLASS C IS NOT
B. $S_{a(0.5)}$ : 0.078.	4. SOILS THAT BECOME DISTURBED OR WEAKENED FROM ACCUMULATED WATER SHALL BE IMPROVED BY AERAT	CONDITION. TON AND F ACTUAL DEPTHS OF SUBEXCAVATIONS SHALL BE VERIFIED BY	PERMITTED), MAXIMUM 25% OF CEMENTITIOUS MATERIAL CONTENT. C-5 AGGREGATE: CSA A23.1, GROUP I, SIZE 20-5.
C. S <sub>a(1.0)</sub> : 0.042. D. S <sub>a(2.0)</sub> : 0.011.	RECOMPACTION, CHEMICAL TREATMENT, OR REMOVA REPLACEMENT WITH NEW COMPACTED FILL. M. THE CONTRACTOR SHALL SUBMIT A SUBGRADE TESTING PF	L AND OBSERVATIONS AND TESTING OF THE FOUNDATION SUBGRADE S AFTER EXCAVATING TO THE DESIGN FOUNDATION SUBGRADE	A. WHEN A SINGLE SIZE OR COMBINATION OF TWO OR MORE AGGREGATES IS USED, THE FINAL GRADING SHALL CONFORM TO TH
-2 IMPORTANCE CATEGORY: NORMAL. -3 SITE CLASSIFICATION: D.	TO THE GEOTECHNICAL ENGINEER OF RECORD FOR APPRO TO CONSTRUCTION. 1. PROOF-ROLLING SHALL BE PERFORMED IN THE PRESE	VAL PRIOR G. COMPACTION SHALL ONLY BE CARRIED OUT DURING FAVORABLE WEATHER CONDITIONS, FILL MATERIAL SHALL NOT BE ALLOWED	TO RANGES AS THE AGGREGATES USED IN THE CONCRETE REPRESENTED
4 SEISMIC LOADS DO NOT GOVERN.	THE GEOTECHNICAL ENGINEER OR QUALIFIED GEOTE REPRESENTATIVE USING A A HEAVY (15 TO 60 TONNI RUBBER-TIRED ROLLER HAVING 4 WHEELS ABREAST O	CHNICALSTABLE AFTER PLACEMENT AND COMPACTION. CARE SHALL BE TAKEN THAT FROZEN MATERIALS ARE NOT PLACED AS FILL NOR	BY SUBMITTED HISTORICAL DATA OR USED IN TRIAL MIXTURES. B. FINE AND COARSE AGGREGATE FOR USE IN CONCRETE SHALL NOT CONTAIN ANY MATERIALS THAT ARE DELETERIOUSLY REACTIVE WITH
EOTECHNICAL REPORT AND RECOMMENDATIONS FOR THIS PROJECT ARE ASED ON:	INDEPENDENT AXLES WITH HIGH CONTACT WHEEL PE (INFLATION PRESSURES RANGING FROM 550 kPa TO 1 OR A HEAVILY LOADED TANDEM AXLE GRAVEL TRUC	RESSURES 1030 kPa) H. STRUCTURAL FILL SHALL BE FREE OF DELETERIOUS, ORGANIC, OF	ALKALINE IN THE CEMENT IN AN AMOUNT SUFFICIENT TO CAUSE
GEOTECHINCAL INVESTIGATION REPORT, PROPOSED JERICHO WIND TURBINE GENERATORS, LAMBTON COUNTY, ONTARIO" BY AMEC ENVIRONMENT & NFRASTRUCTURE DATED MAY 13, 2013, AMEC REFERENCE NO.: SW0812019.	TO APPROXIMATELY 10 TONNES PER AXLE AND A MII TIRE PRESSURE OF 550 kPa TO ASSESS THE NEED FOR	NIMUM R ANY I. SHOULD THE RESULTS OF THE IN-PLACE DENSITY TESTS INDICAT THE SPECIFIED MOISTURE OR COMPACTION REQUIREMENTS HAV	CONSIDERATION NEED BE TAKEN FOR CORRECTIVE ACTION WHICH SHALL CLEARLY DEMONSTRATE THROUGH TESTING SATISFACTORY
SUPPLEMENTARY GEOTECHINCAL INVESTIGATION, JERICHO WIND TURBINE GENERATORS, TURBINES T1, T2, T66, T79, T105, T107, T109, T112, LAMBTON	) RUTTING GREATER THAN 40 mm, AND NO "PUMPING		C-6 CURING AGENT: ASTM C309, TYPE 2 (WHITE PIGMENTED).
COUNTY, ONTARIO" BY AMEC ENVIRONMENT & INFRASTRUCTURE DATED APRIL 2, 2014, AMEC REFERENCE NO.: SW0812019.	SOIL BEHIND THE LOADED TRUCK. 3. THE USE OF EITHER STATIC OR DYNAMIC CONE PENE (DEPENDING ON THE SUBGRADE MATERIALS EXPOSED		T 30 ENGINEER-APPROVED MIX DESIGN, NOT TO EXCEED 0.45, AND FIELD
GENERATORS, TURBINES T7, T26, T106, and T108, LAMBTON COUNTY, ONTARIO" BY AMEC ENVIRONMENT & INFRASTRUCTURE DATED APRIL 17, 2014, AMEC REFERENCE NO.: SW0812019.	FOUNDATION BEARING ELEVATION) MAY ALSO BE US APPROVAL OF THE GEOTECHNICAL ENGINEER OF REC	ED WITH FOUNDATIONS.	C-8 SLUMP: MAXIMUM 130 mm AT POINT OF PLACEMENT. A. WHEN THE USE OF A TYPE I OR II PLASTICIZING ADMIXTURE
"REVISED ULS AND SLS BEARING RESISTANCES AT SEVENTEEN WIND TURBINE LOCATIONS, JERICHO WIND PROJECT, LAMBTON COUNTY, ONTARIO" FROM	M. THE LEAN CONCRETE MUD MAT SHALL BE PLACED IMMEDIA AFTER THE SUBGRADE HAS BEEN INSPECTED AND APPROVE	D. GD-5 TURBINE FOUNDATIONS LOCATED ADJACENT TO NATURAL OR	CONFORMING TO ASTM C1017M OR WHEN A TYPE F OR G HIGH-RANGE WATER-REDUCING ADMIXTURE CONFORMING TO ASTM C494M IS PERMITTED TO INCREASE THE SLUMP OF CONCRETE,
AMEC ENVIRONMENT & INFRASTRUCTURE DATED APRIL 21, 2014, AMEC REFERNCE NO.: SW0812019.	GD-3 BACKFILL MATERIAL OVER AND AROUND THE FOUNDATION SHATE MINIMUM DEPTH AS SHOWN ON THESE DESIGN DRAWINGS SHALL BE PREPARED ACCORDING TO THE FOLLOWING:	AND SLOPE. THIS SETBACK DISTANCE CAN BE ESTIMATED BY ESTABLISHIN AN IMAGINARY PLANE DRAWN AT A 45-DEGREE ANGLE EXTENDING	
JERICHO WIND ENERGY CENTRE, FLOODPLAIN ANALYSIS, AUSABLE BAYFIELD CONSERVATION AUTHORITY AREA" BY AECOM DATED MARCH 2014, PROJECT NUMBER: 60304152.	<ul> <li>A. MINIMUM COMPACTED DRY DENSITY: 14.9 kN/m<sup>3</sup>.</li> <li>B. MAXIMUM COMPACTED WET DENSITY: 22.0 kN/m<sup>3</sup>.</li> </ul>	DOWNWARD FROM THE EDGE OF THE FOUNDATION. A. THE TURBINE FOUNDATION SHALL NOT BE LOCATED IN ANY ARE WHERE THIS SETBACK PLANE WILL INTERCEPT ANY PORTION OF T	ALTERNATIVE SOURCES OF WATER COMPETING WITH ASTM CTOUZM ARE
QUESTIONS, COMMENTS, RFI'S, AND SUBMITTALS REGARDING THE GEOTECHNICAL SPECIFICATIONS SHALL BE DIRECTED TO THE GEOTECHNICAL ENGINEER OF RECORD.	C. THE PROPOSED BACKFILL MATERIAL SHALL BE APPROVED B GEOTECHNICAL ENGINEER OF RECORD PRIOR TO ITS USE A CONFORM OPSS GRANULAR "A" OR GRANULAR "B", TYPE I M	Y THE DOWNHILL SLOPE. IF A PROPOSED TURBINE FOUNDATION WILL ND SHALL VIOLATE THIS CRITERIA, THE FOUNDATION CAN BE MOVED EITH	R C-10 IF USED, ADMIXTURES SHALL MEET THE REQUIREMENTS OF THE THE FOLLOWING:
GD-1 REQUIRED NET BEARING CAPACITY: SEE SHEETS S-1, S-4 AND S-7. $1$ GD-2 THE FOUNDATION SUBGRADE AND EXCAVATION SHALL BE PREPARED IN	SPECIFICATIONS. 1. THE ON-SITE NATIVE SOIL MAY BE USED AS BACKFILL PROVIDED IT IS FREE FROM ANY ORGANICS AND DELI	THE FOUNDATION DOES NOT EXCEED THE DEPTH SHOWN ON TH MATERIAL DESIGN DRAWINGS.	
THE FOLLOWING MANNER: A. THE EXCAVATION AREA SHALL BE CLEARED OF DELETERIOUS MATERIALS SUCH AS VEGETATION, ROOT SYSTEMS, ORGANIC	MATERIAL. D. BACKFILL SHALL BE COMPACTED TO A MINIMUM OF 95% O MAXIMUM DRY DENSITY AS DETERMINED BY ASTM D698 AI		CONCRETE: ASTM C1017M.
TOPSOIL, DEBRIS, EXISTING FILL, AND SOFT, FROZEN, OR OTHERWISE UNSUITABLE MATERIALS.	MOISTURE CONDITIONED WITHIN 2% OF OPTIMUM MOISTU CONTENT.	RE GD-6 A QUALIFIED GEOTECHNICAL ENGINEER OR ENGINEERING GEOLOGIST SHALL BE RETAINED BY THE CONTRACTOR TO CONFIRM ALL	D. ADMIXTURES USED IN CONCRETE SHALL BE THE SAME AS THOSE USED IN THE CONCRETE REPRESENTED BY SUBMITTED FIELD TEST RECORDS OR USED IN TRIAL MIXTURES.
B. ROOT ZONE SOILS, ORGANIC-RICH TOPSOIL (SOIL WITH 5% OR MORE ORGANICS), VEGETATION, AND SOFT OR OTHERWISE UNSUITABLE MATERIALS FROM THE SURFACE OF THE PROPOSED CONSTRUCTION AREAS SHALL BE STOCKPILED FOR POSSIBLE USE AS TOPSOIL OR	E. BACKFILL TO BE PLACED OVER THE FOUNDATIONS SHALL B IN LIFTS HAVING A MAXIMUM LOOSE LIFT THICKNESS OF 20 PRIOR TO COMPACTION. IF THE TESTING AGENCY CANNOT THIS FULL DEPTH, (I.E. 200 mm NUCLEAR GAUGE) THEN TH	00 mm CONSTRUCTION. T TEST	C-11 AIR CONTENT AT POINT OF PLACEMENT: 4% TO 7% FOR ALL STRUCTURAL FOUNDATION CONCRETE. NO SPECIFIED AIR CONTENT REQUIRED IN LEAN (MUD MAT) CONCRETE.
SHALL BE REMOVED FROM THE SITE. ORGANIC SOILS SHALL NOT BE USED AS BACKFILL BENEATH OR BESIDE THE TURBINE FOUNDATIONS.	SHALL BE REDUCED ACCORDINGLY. F. ANY PARTICLES IN EXCESS OF 150 mm SHALL BE SCREENED	BY GEOTECHNICAL REPRESENTATIVE PRIOR TO PLACEMENT OF REINFORCING STEEL OR CONCRETE TO CONFIRM MINIMUM NET	A. ENTRAPPED AIR ONLY SHALL NOT BE USED WHEN AIR CONTENT HAS BEEN SPECIFIED.
C. MODIFICATION OF SOFT SOILS SHALL CONSIST OF OVEREXCAVATION AND REPLACEMENT WITH STRUCTURAL FILL MEETING THE CRITERIA SHOWN IN THESE SPECIFICATIONS.	REMOVED FROM THE OVERBURDEN MATERIAL. G. SAMPLES OF THE FILL MATERIAL SHALL BE OBTAINED DURII EXCAVATION BY AN EXPERIENCED GEOTECHNICAL ENGINEE	GD-8 GEOTECHNICAL REPRESENTATIVE SHALL RECORD SOIL DESIGNATION ANY PERCHED/GROUNDWATER ENCOUNTERED. ANYTIME WATER	THE CONCRETE CAST IN THE BASE.
D. WHERE OVEREXCAVATION IS REQUIRED, EXTEND LATERALLY ONE (1) METER BEYOND THE OUTSIDE EDGES OF THE FOUNDATION AND THEN DOWNWARD AT A SLOPE OF AT LEAST 0.75 METER OUTWARD FOR EACH METER OF EXCAVATION BELOW THE FOUNDATION	REPRESENTATIVE TO DETERMINE MOISTURE DENSITY RELAT AND CLASSIFICATION TESTING FOR ACCEPTABILITY. ALL T SHALL BE COMPLETED BY AN APPROVED, INDEPENDENT TES	TIONSHIPS ENCOUNTERED IS CONSIDERED TO BE GROUNDWATER AND IS NEARED THE NATURAL GROUND SURFACE THAN THE FOUNDATION HAS BEEN	LL C-13 THE CONTRACTOR MUST RETAIN THE SERVICES OF A PRIVATE,
BEARING ELEVATION. E. A QUALIFIED GEOTECHNICAL REPRESENTATIVE SHALL BE PRESENT	AGENCY. H. DURING EXCAVATION AND GRADING, PROPOSED BACKFILL NOT IMMEDIATELY PLACED AND COMPACTED SHALL BE ST	OF ANY LEAN CONCRETE MAT, REINFORCING STEEL, OR STRUCTURAL MATERIAL CONCRETE. OCKPILED	
DURING SITE PREPARATION OPERATIONS TO OBSERVE STRIPPING AND GRUBBING DEPTHS, OBSERVE THE REMOVAL OF UNSUITABLE SOILS, OBSERVE THE PREPARATION OF THE SUBGRADE, AND TO VERIFY THAT THE EXPOSED SUBGRADE HAS BEEN PREPARED IN	AND PROTECTED FROM MOISTURE BY SEALING THE SURFACLIGHT COMPACTION.	CE WITH GD-9 SUBGRADE SHALL BE FREE FROM FROST AND ICE PRIOR TO LEAN CONCRETE PLACEMENT.	B. THE LABORATORY SHALL TAKE SAMPLES OF A MINIMUM OF EIGHT (8 CYLINDERS BY RAFT AND EIGHT (8) CYLINDERS BY BASE. ADDITIONAL CYLINDERS MAY BE CAST AT THE DISCRETION OF THE
ACCORDANCE WITH THESE SPECIFICATIONS. F. THE FOUNDATION BEARING SURFACE SHALL BE FREE OF WEATHERED, LOOSE ROCK, AND SHALL HAVE DISCONTINUITIES AT SPACINGS NOT	TESTING TO DOCUMENT THAT PLACEMENT OF THE FILL MA MEETS OR EXCEEDS THESE PROJECT SPECIFICATIONS. EACH COMPACTED FILL SHALL BE CLOSELY OBSERVED AND TESTE	ATERIAL GD-10 PONDING OF WATER NEAR THE FOUNDATION ELEMENTS FROM I LIFT OF IMPROPER DRAINAGE SHALL NOT BE PERMITTED. ED BY AN	CONTRACTOR TO EVALUATE THE RESISTANCE OF THE CONCRETE AT DIFFERENT AGES BETWEEN 7 TO 56 DAYS.
CLOSER THAN 0.3 METERS AS VERIFIED BY THE GEOTECHNICAL CONSULTANT.	APPROVED, INDEPENDENT TESTING AGENCY. 1. DENSITY AND MOISTURE OF THE BACKFILL SHALL BE T EACH LIFT AT A FREQUENCY OF ONE (1) TEST EVERY 2		C. THE LABORATORY SHALL ALSO UNDERTAKE TESTS OF SUBSIDENCE AND AIR CONTENT OF THE CONCRETE. EXECUTION OF CONCRETE MIXING AND PLACEMENT:
G. DURING EXCAVATION OF THE TURBINE FOUNDATIONS, IF THE SUBGRADE IS DISTURBED, THE RESULTING SURFACE SHALL BE SCARIFIED, MOISTURE CONDITIONED, AND RECOMPACTED TO ACHIEVE A MINIMUM COMPACTION OF 100% AND A MOISTURE	SQUARE METERS AND A MINIMUM OF TWO (2) TESTS P 2. IF THE RESULTS OF IN-PLACE DENSITY TESTS INDICATE	ER LIFT. GD-11 LEAN CONCRETE MAT SHALL BE PLACED AS LEVEL AS POSSIBLE TO	CM-1 UNLESS OTHERWISE SPECIFIED, MEASURE, BATCH, AND MIX CONCRETE
CONTENT WITHIN 2% OF OPTIMUM IN ACCORDANCE WITH ASTM D698.	SPECIFIED MOISTURE OR COMPACTION LIMITS HAVE NO MET, THE AREA REPRESENTED BY THE TEST SHALL BE R AND RETESTED AS REQUIRED UNTIL THE SPECIFIED MC AND COMPACTION REQUIREMENTS ARE ACHIEVED.	GD-12 FINAL SITE GRADING SHALL ENSURE NO PONDING OCCURS DIRECTL OVER FOUNDATION EXCAVATION. THE GROUND SURFACE WITHIN A	CM-2 CONCRETE SHALL POSSESS THE SPECIFIED CHARACTERISTICS IN THE FRESHLY MIXED STATE AT THE POINT OF PLACING. TRANSPORT AND DELIVER CONCRETE IN EQUIPMENT CONFORMING TO THE REQUIREMENTS
H. IF WATER INFILTRATION IN THE EXCAVATION IS ENCOUNTERED AS DETERMINED BY THE ON-SITE GEOTECHNICAL REPRESENTATIVE, FOUNDATION EXCAVATIONS SHALL INCLUDE THE EXCAVATION OF ONE OR MORE SUMP PITS LOCATED WITHIN THE EXCAVATION AND OUTSIDE OF A 1H:1V AREA EXTENDING DOWN AND AWAY FROM THE OUTER EDGE OF THE MUD MAT THAT WILL SERVE TO COLLECT	J. DURING CONSTRUCTION, THE TOP SURFACE OF THE FILL SI KEPT WITH SUFFICIENT SLOPE (MINIMUM 2% GRADIENT) TO RUNOFF OF WATER DURING RAINFALL WITHOUT INDUCING	METER ZONE FROM THE EXTERIOR PERIMETER OF THE FOUNDATIONHALL BESHALL BE GRADED TO DRAIN AWAY FROM THE FOUNDATIONS AT AALLOWGRADIENT OF 5%.	

<u>E</u> F					
CM-4 SLUMP ADJUSTMENT: A. WHEN CONCRETE ARRIVES AT THE POINT OF DELIVERY WITH A SLUMP BELOW THAT WHICH WILL RESULT IN THE SPECIFIED SLUMP AT THE POINT OF PLACEMENT AND IS UNSUITABLE FOR PLACING AT THAT SLUMP, THE SLUMP MAY BE ADJUSTED TO THE REQUIRED VALUE BY ADDING WATER UP TO THE AMOUNT ALLOWED IN THE ACCEPTED MIXTURE PROPORTIONS UNLESS OTHERWISE SPECIFIED BY THE ENGINEER.	ints. ULC		East, Unit 24 v4N9 Canada		
<ul> <li>B. ADDITION OF WATER SHALL BE IN ACCORDANCE WITH ASTM C94M.</li> <li>C. DO NOT EXCEED THE SPECIFIED WATER-CEMENTITIOUS MATERIAL RATIO OR SLUMP.</li> </ul>	nsulta		Road	742-0	מוומנוו
D. DO NOT ADD WATER TO CONCRETE DELIVERED IN EQUIPMENT NOT ACCEPTABLE FOR MIXING.	8		Brittania sauda C	(289)	
E. IF PLASTICIZING OR HIGH-RANGE WATER-REDUCING ADMIXTURES ARE ADDED TO THE CONCRETE AT THE SITE TO ACHIEVE FLOWABLE CONCRETE, DO NOT ADD WATER TO THE CONCRETE.	CWE Cons		)50 BI ississ	ר ר	
F. MEASURE SLUMP AND AIR CONTENT OF AIR-ENTRAINED CONCRETE AFTER SLUMP ADJUSTMENTS TO VERIFY COMPLIANCE WITH SPECIFIED REQUIREMENTS.		E \	<u> </u>		3
CM-5 TIME FOR COMPLETION OF DISCHARGE SHALL COMPLY WITH ASTM C94M UNLESS OTHERWISE PERMITTED. WHEN DISCHARGE IS PERMITTED AFTER MORE THAN 90 MINUTES HAVE ELAPSED SINCE BATCHING OR AFTER THE DRUM HAS REVOLVED 300 REVOLUTIONS, VERIFY AIR CONTENT OF AIR-ENTRAINED CONCRETE, SLUMP, AND TEMPERATURE OF CONCRETE AS SPECIFIED.	UCTION	PROJECT	,YTV	<b>ADA</b>	
CM-6 DO NOT PLACE CONCRETE UNTIL DATA ON MATERIALS AND MIXTURE PROPORTIONS ARE ACCEPTED.	TRI	DP	<b>O</b>	B	
CM-7 THE CONTRACTOR SHALL PLACE THE MINIMUM CONCRETE VOLUME FOR THE BASE/PEDESTAL AS SHOWN BY THE DIMENSIONS/ESTIMATED QUANTITIES SHOWN ON THESE DESIGN DRAWINGS.	NO	MIN	NO	RO,	
CM-8 BASE CONCRETE SHALL CURE FOR A MINIMUM OF 24 HOURS AND UNTIL IT IS OF SUFFICIENT STIFFNESS TO RESIST DAMAGE BEFORE PLACING THE PEDESTAL CONCRETE.	EAC		AMBT	NA	
CM-9 CONVEYING EQUIPMENT:	BOREA	ERICHC		Ō	
A. RAPIDLY CONVEY CONCRETE FROM MIXER TO THE PLACE OF FINAL DEPOSIT BY METHODS THAT PREVENT SEGREGATION OR LOSS OF INGREDIENTS AND ENSURE THE REQUIRED QUALITY OF CONCRETE. DO NOT USE ALUMINUM PIPES OR CHUTES.		Щ			
<ul> <li>B. CLEAN CONVEYING EQUIPMENT BEFORE EACH PLACEMENT.</li> <li>C. USE BELT CONVEYORS THAT ARE HORIZONTAL OR AT A SLOPE THAT</li> </ul>	1 HH STW		1		
WILL NOT CAUSE EXCESSIVE SEGREGATION OR LOSS OF INGREDIENTS. USE ACCEPTABLE DISCHARGE BAFFLE OR HOPPER AT THE DISCHARGE END TO PREVENT SEGREGATION. DO NOT ALLOW MORTAR TO ADHERE TO THE RETURN LENGTH OF THE BELT.	79.7m CWE/S	BINE	SHEET		
D. USE METAL OR METAL-LINED CHUTES HAVING ROUNDED BOTTOMS, AND SLOPED BETWEEN ONE VERTICAL TO TWO HORIZONTAL AND ONE VERTICAL TO THREE HORIZONTAL. CHUTES LONGER THAN 6 METERS LONG AND CHUTES NOT MEETING SLOPE REQUIREMENTS MAY BE USED PROVIDED THE DISCHARGE IS INTO A HOPPER BEFORE DISTRIBUTION INTO THE PLACEMENT AREA.	NA. GE 4	TUR	SPECIFICATIONS SHEE		
E. USE PUMPING EQUIPMENT THAT PERMITS PLACEMENT RATES THAT AVOID COLD JOINTS AND PREVENTS SEGREGATION IN DISCHARGE OF PUMPED CONCRETE.	6-100 C IIIB	UNIM	CIFI		
CM-10 DEPOSITING CONCRETE:			SPE		
A. DEPOSIT CONCRETE CONTINUOUSLY IN ONE LAYER OR IN LAYERS TO HAVE FRESH CONCRETE DEPOSITED ON IN-PLACE CONCRETE THAT IS STILL PLASTIC.					
B. DO NOT DEPOSIT FRESH CONCRETE ON CONCRETE THAT HAS HARDENED SUFFICIENTLY TO CAUSE FORMATION OF SEAMS OR PLANES OF WEAKNESS WITHIN THE SECTION.					
C. DO NOT USE CONCRETE THAT HAS SURFACE-DRIED, PARTIALLY HARDENED, OR CONTAINS FOREIGN MATERIAL.					
D. DEPOSIT CONCRETE AS NEAR AS PRACTICABLE TO THE FINAL POSITION TO AVOID SEGREGATION.				ONSTRUCTION	
CM-11 CONSOLIDATION: A. CONSOLIDATE CONCRETE BY VIBRATION INCLUDING FINAL LIFT OF				STRUC	
CONCRETE. THOROUGHLY WORK CONCRETE AROUND REINFORCEMENT AND EMBEDDED ITEMS AND INTO CORNERS OF FORMS, ELIMINATING AIR AND STONE POCKETS THAT MAY CAUSE HONEYCOMBING, PITTING, OR PLANES OF WEAKNESS.			77	OR C	
<ol> <li>FINAL LIFT OF BASE CONCRETE SHALL BE CONSOLIDATED AS SPECIFIED ABOVE. IN ADDITION, DUE TO THE EXTENDED TIME OF EXPOSURE OF THE SECOND TO LAST LIFT, THE NECESSARY</li> </ol>			REVISION REVISION	REVISION	DESCRIPTION
EFFORT SHOULD BE TAKEN TO ENSURE THE VIBRATOR IS ALLOWED AMPLE TIME TO PENETRATE THROUGH THE FINAL LIFT INTO THE PREVIOUS LIFT IN ORDER TO ADEQUATELY KNIT THE			4 4	4 M	
TWO LAYERS TOGETHER. THIS WILL PROVIDE THE CRITICAL HORIZONTAL SHEAR TRANSFER OF THE TOP MAT OF REINFORCING TO THE CONCRETE BELOW.			4/30/201 4/24/201	3/26/201	DATE
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	A	В	
	B. USE INTERNAL VIBRATORS OF THE LARGEST SIZE AND POWER THAT CAN PROPERLY BE USED IN THE CONCRETE PLACEMENT.	A. TEMPERATURE MONITORING PROCEDURE, IF USED, S DETERMINED BY THE FOUNDATION ENGINEER OF REC	
	C. DO NOT USE VIBRATORS TO MOVE CONCRETE.	HW-3 LOSS OF SLUMP, FLASH SET, OR COLD JOINTS WILL NOT E	BE ACCEPT
	D. VIBRATIONS OF CONCRETE SHALL FOLLOW THE METHOD BELOW:	HW-4 OBTAIN ACCEPTANCE OF HOT WEATHER CONCRETING PF	ROCEDURE
	<ol> <li>VIBRATION OF CONCRETE SHALL PROCEED RAPIDLY TO THE BOTTOM OF THE FRESH LAYER AND PENETRATE AT LEAST 150 mm INTO THE PROCEEDING LAYER INCLUDING FINAL LIFT OF CONCRETE.</li> </ol>	HW-5 WHEN TEMPERATURE OF STEEL REINFORCEMENT, EMBEDI FORMS IS GREATER THAN 48 °C, FOG STEEL REINFORCEM EMBEDMENTS, AND FORMS WITH WATER IMMEDIATELY BI CONCRETE. REMOVE STANDING WATER BEFORE PLACING	ENT, EFORE PLA
1	2. THE VIBRATOR SHALL BE MANIPULATED IN AN UP-AND-DOWN MOTION, GENERALLY FOR 5 TO 15 SECONDS TO KNIT THE TWO LAYERS TOGETHER. THE VIBRATOR SHALL THEN BE WITHDRAW GRADUALLY WITH A SERIES OF UP-AND-DOWN MOTIONS. THE	COLD WEATHER CONCRETING:	
	DOWN MOTION SHALL BE A RAPID DROP. 3. THE SPACING BETWEEN VIBRATOR INSERTIONS SHALL BE	CONDITIONS OF COLD WEATHER CONCRETING.	WEDTOK
	CM-12 CURING AND PROTECTION:	CW-2 WHEN THE AIR TEMPERATURE IS AT OR BELOW 5 °C OR W THE PROBABILITY OF THE AIR TEMPERATURE FALLING BEI 24 HOURS OF PLACING CONCRETE, THE TEMPERATURE O CONCRETE SHALL BE PLACED AND MAINTAINED BETWEEN	LOW 5 °C V F THE
	A. APPLY THE COMPOUND IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS AS SOON AS WATER SHEEN HAS DISAPPEARED FROM THE CONCRETE SURFACE AND AFTER FINISHING OPERATIONS THE APPLICATION RATE SHALL NOT BE LESS THAN 1 LITER/5 SQUA METERS.		
	B. DO NOT USE CURING COMPOUND ON ANY SURFACE WHERE CONCRETE OR OTHER MATERIAL WILL BE BONDED, UNLESS THE CURING COMPOUND WILL NOT PREVENT BOND OR UNLESS MEASUR ARE TAKEN TO COMPLETELY REMOVE THE CURING COMPOUND FRO AREAS TO RECEIVE BONDED APPLICATIONS.	In value de la real en la conceptation en la concep	HAT THE
	C. IMMEDIATELY AFTER PLACEMENT, PROTECT CONCRETE FROM PREMATURE DRYING, EXCESSIVELY HOT OR COLD TEMPERATURES, AND MECHANICAL INJURY.	CW-5 WHEN THE SURFACE TEMPERATURE OF THE CONCRETE IS THE AMBIENT OR SURROUNDING TEMPERATURE, PROTEC MAY BE REMOVED.	
	D. PROTECT CONCRETE DURING THE CURING PERIOD SUCH THAT THE CONCRETE TEMPERATURE DOES NOT FALL BELOW THE REQUIREMENTS SHOWN IN THE COLD WEATHER CONCRETING SECTION.	CW-6 THE TEMPERATURE OF THE CONCRETE AS PLACED SHALL THE ALLOWABLE PLACEMENT TEMPERATURE AS NOTED II FOUNDATION ENGINEER-APPROVED CONCRETE MIX DESIC DETERMINED BY INTERNAL CONCRETE TEMPERATURE MO WITH THE APPROVAL OF THE FOUNDATION ENGINEER.	N THE GN OR AS
	E. DO NOT ALLOW WINDY CONDITIONS TO CAUSE EXCESSIVE OR ACCELERATED DRYING OF THE FOUNDATION BEFORE BACKFILL IF PLACED OVER THE FOUNDATION.	A. TEMPERATURE MONITORING PROCEDURE, IF USED, S DETERMINED BY THE FOUNDATION ENGINEER OF REC	
	CM-13 TOP OF BASE SHALL BE FINISHED WITH ROUGH TROWEL FINISH OR ROLLER BUG. TOP OF PEDESTAL SHALL BE FINISHED WITH TROWEL AN BROOM FINISH.	CW-7 DO NOT PLACE CONCRETE AROUND THE EMBEDMENT RII EMBEDMENT RING IS AT A TEMPERATURE ABOVE FREEZIN CW-8 DURING PERIODS NOT DEFINED AS COLD WEATHER, BUT	G.
	MASS CONCRETING:	TEMPERATURES MAY OCCUR, PROTECT CONCRETE SURFA FREEZING FOR THE FIRST 24 HOURS AFTER PLACING.	
	MC-1 THE FOLLOWING REQUIREMENTS SHALL BE MET WHEN CONCRETE PLACEMENT IS CONSIDERED TO BE MASS CONCRETE. THE OTHER REQUIREMENTS OF THESE DESIGN DOCUMENTS SHALL BE MET UNLESS MORE STRINGENT REQUIREMENTS FOUND IN THIS SECTION CONTROL.	CW-9 THE TEMPERATURE OF THE CONCRETE AT THE POINT OF (TYPICALLY AT THE BATCH PLANT) SHALL BE WITHIN 8 °C TEMPERATURE OF THE CONCRETE AT THE POINT OF PLAC	CABOVE TH
	MC-2 MASS CONCRETING PRECAUTIONS SHALL BE REQUIRED WHEN THE MINIMUM CROSS-SECTIONAL DIMENSION APPROACHES OR EXCEEDS 750 mm OR WHEN CEMENT CONTENTS ABOVE 356 kg/m <sup>3</sup> ARE USED.	CW-10 THE CONCRETE TEMPERATURE AT THE SURFACE SHALL AND RECORDED AT LEAST TWICE DAILY FOR THREE DA AFTER CONCRETE PLACEMENT.	
	MC-3 SUBMIT BRAND NAMES, MANUFACTURER'S CERTIFICATIONS, AND TEST DATA ON HEAT OF HYDRATION.	CW-11 TO SUPPORT THE CONSTRUCTION SEQUENCE, ONE (1) A CONCRETE CYLINDER PER 100 CU. METERS OF CONCRE THE FOUNDATION BASE AND ONE (1) ADDITIONAL CON PER FOUNDATION PEDESTAL SHALL BE FIELD-CURED UN	TE PLACED
	MC-4 DO NOT USE CSA A3001 TYPE HE CEMENT. MC-5 DO NOT USE CALCIUM CHLORIDE OR OTHER ACCELERATING ADMIXTUR UNLESS SPECIFICALLY PERMITTED.	CURING CONDITIONS AS THE FOUNDATION CONCRETE THE TESTING INTERVALS DESCRIBED BELOW. THE FIELD	FOR EACH D-CURED INDERS SH
	MC-6 UNLESS OTHERWISE PERMITTED OR SPECIFIED, THE TEMPERATURE OF CONCRETE AT THE POINT OF PLACEMENT SHALL NOT BE LESS THAN 5		
	CONCRETE PLACED IN COLD WEATHER SHALL MEET THE REQUIREMENTS OF THE COLD WEATHER CONCRETING SECTION.	A. TOWER ERECTION OCCURS LESS THAN 28 DAYS AFTI CONCRETE PLACEMENT IS COMPLETE:	ER FOUND
	MC-7 PLACE CONCRETE IN LAYERS NOT MORE THAN 450 mm THICK. EXTENE VIBRATOR HEADS INTO PREVIOUSLY PLACED LAYER OF PLASTIC	1. PRIOR TO FOUNDATION BACKFILL PLACEMENT.	
	CONCRETE.	2. PRIOR TO POST-TENSIONING ANCHOR BOLTS.	
	MC-8 DURING PROTECTION FROM FREEZING AND MOISTURE LOSS, AS REQUIR BY THE COLD WEATHER CONCRETING AND THE EXECUTION OF CONCRETE MIXING AND PLACEMENT SECTIONS, DO NOT USE STEAM OR	D 3. PRIOR TO ERECTION OF NACELLE AND ROTOR.	
	OTHER CURING METHODS THAT WILL ADD HEAT TO THE CONCRETE.	B. TOWER ERECTION OCCURRING MORE THAN 28 DAYS FOUNDATION CONCRETE PLACEMENT IS COMPLETE:	S AFTER
	MC-9 KEEP FORMS AND EXPOSED CONCRETE CONTINUOUSLY WET DURING TH CURING PERIOD WHENEVER THE SURROUNDING AIR TEMPERATURE IS ABOVE 32 °C.	1. PRIOR TO FOUNDATION BACKFILL PLACEMENT.	
	MC-10 UNLESS OTHERWISE SPECIFIED, COOL THE CONCRETE GRADUALLY SO THAT THE DROP IN CONCRETE SURFACE TEMPERATURE DURING AND THE CONCLUSION OF THE SPECIFIED CURING PERIOD DOES NOT EXCEP 11 °C IN ANY 24 HOUR PERIOD.	$WW_{-}$   D() N()   RE(.IN   () PLA( E ( ()N((RETEW)H) E RAIN NEEL	
	MC-11 BASE AND PEDESTAL CONCRETE MIX DESIGN THAT IS CONSIDERED MA CONCRETE SHALL BE DESIGNED AND SEALED BY A PROFESSIONAL ENGINEER. MIX DESIGN SHALL BE DESIGNED WITH PLACEMENT		R OR DAM
	SPECIFICATIONS TO ENSURE MAXIMUM CONCRETE TEMPERATURE AT THE CORE OF THE FOUNDATION BASE DOES NOT EXCEED 70 °C AND	MATERIAL STORAGE AND HANDLING:	
	MAXIMUM TEMPERATURE RANGE FROM THE CORE OF THE BASE TO TH BASE SURFACE DOES NOT HAVE A TEMPERATURE DIFFERENTIAL IN EXCESS OF 20 °C.	MS-1 STORE CEMENTITIOUS MATERIALS IN DRY, WEATHER-TIGI BINS, OR SILOS THAT WILL EXCLUDE CONTAMINANTS.	HT BUILDIN
	HOT WEATHER CONCRETING:	MS-2 STORE AND HANDLE AGGREGATE IN A MANNER THAT WI	
	HW-1 THE RECOMMENDATIONS OF ACI 305 SHALL BE FOLLOWED FOR CONDITIONS OF HOT WEATHER CONCRETING.	SEGREGATION AND PREVENT CONTAMINATION WITH OT OR OTHER SIZES OF AGGREGATES. STORE AGGREGATES THAT WILL PERMIT THEM TO DRAIN FREELY. DO NOT US THAT CONTAIN FROZEN LUMPS.	IN LOCATI
10:29:51	HW-2 THE TEMPERATURE OF THE CONCRETE AS PLACED SHALL NOT EXCEED THE ALLOWABLE PLACEMENT TEMPERATURE AS NOTED IN THE FOUNDATION ENGINEER-APPROVED CONCRETE MIX DESIGN OR AS DETERMINED BY INTERNAL CONCRETE TEMPERATURE MONITORING DAT	MS-3 PROTECT MIXING WATER AND ICE FROM CONTAMINATIO STORAGE AND DELIVERY.	N DURING

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HALL BE CORD.	MS-4	PROTECT STORED ADMIXTURES AGAINST CONTAMINATION EVAPORATION, OR DAMAGE. PROVIDE AGITATION EQUIPM		METALS:	
E ACCEPTABLE.		ADMIXTURES USED IN THE FORM OF SUSPENSIONS OR NON SOLUTIONS TO ENSURE UNIFORM DISTRIBUTION OF THE IN	NSTABLE	M-1	EMBEDMENT RING:
OCEDURE.		PROTECT LIQUID ADMIXTURES FROM FREEZING AND FROM CHANGES THAT WOULD ADVERSELY AFFECT THEIR CHARA			A. THICKNESS: 1-1/4" (32 mm).
	MS-5	PREVENT BENDING, COATING WITH EARTH, OIL, OR OTHER	R MATERIAL, OR		B. MATERIAL: ASTM A36 GRADE 36, OR ASTM A36M GRADE 250, OR
AENTS, OR ENT, FORE PLACING	EXECUTIO	OTHERWISE DAMAGING THE REINFORCEMENT.		M-2	CSA G40.21, 300W. ANCHOR BOLTS:
CONCRETE.					A. NOMINAL DIAMETER: 32 mm (#10).
	1E-1	ANCHOR BOLT POST-TENSIONING, AND BASE AND MID-TO CAN BE ERECTED WHEN THE FOUNDATION BASE AND PEDE CONCRETE COMPRESSIVE STRENGTHS HAVE REACHED A M	ESTAL		B. GRADE: 75 (WILLIAMS FORM BRAND OR APPROVED EQUIVALENT).
WED FOR		OF THE 28-DAY REQUIREMENTS.			C. ANCHOR BOLTS SHALL HAVE A MINIMUM CHARPY VALUE OF 27
HEN THERE IS .OW 5 °C WITHIN	TE-2	FULL TURBINE TOWER, NACELLE, AND BLADES CAN BE ERECTIVE FOUNDATION BASE AND PEDESTAL CONCRETE COMPRESSION OF THE PEDERAL CONCRETE CONCRETE COMPRESSION OF THE PEDERAL CONCRETE	RESSIVE		JOULES AT -40° C PER GE'S SPECIFICATIONS.
F THE I 10 °C AND 20		STRENGTHS HAVE REACHED A MINIMUM OF 90% OF THE 2 REQUIREMENTS.	8-DAY		D. POST-TENSION: 371 kN, WITH +20 kN, -0 KIPS TOLERANCE.
	TE-3	THE FULL 28-DAY FOUNDATION BASE AND PEDESTAL CON			E. MINIMUM REQUIRED LENGTH: 2620 mm.
HEN N HALF OF ANY	TE-4	COMPRESSIVE STRENGTHS ARE REQUIRED PRIOR TO TURBIN THE PROJECT FOUNDATION ENGINEER SHALL BE NOTIFIED	OF THE		F. ENCASED IN PVC PIPE SLEEVE MEETING ASTM D2241 OR EQUIVALENT, PVC LENGTH: 2150 mm.
G OF THE		NUMBER OF TOWER SECTIONS TO BE ERECTED PRIOR TO G PLACEMENT IN ORDER TO DETERMINE THE SIZE, NUMBER, A LOCATIONS OF SHIMS WHEN USED TO SUPPORT THE TOWE	AND		G. HEX NUTS: WILLIAMS FORM BRAND OR APPROVED EQUIVALENT.
HAT THE E SURFACE OF D 12 °C.	TE-5	SHIMS USED TO SUPPORT THE TOWER DURING GROUT PLA			H. HARDENED WASHERS: WILLIAMS FORM BRAND OR APPROVED EQUIVALENT.
WITHIN 10 °C OF TION MEASURES	CROUT	BE MADE OF ASTM-APPROVED STEEL OR OF AN APPROVED THAT APPROPRIATE SIMULATES THE MODULUS OF ELASTIC GROUT.			I. ANCHOR BOLTS SHALL BE INSTALLED WITH A MINIMUM PROJECTION OF 250 mm (CONTRACTOR TO VERIFY) ABOVE TOWER FLANGE. THIS DIMENSION SHALL BE INCREASED AS REQUIRED TO SUIT POST-TENSIONING INSTALLATION AND REQUIRED MAINTENANCE.
NOT EXCEED	<u>GROUT:</u>				J. ANCHOR BOLTS SHALL BE INSTALLED WITH MINIMUM 15 mm AND
N THE GN OR AS NITORING DATA	G-1	GROUT: NON-FERROUS, NON-SHRINK GROUT WITH THE SP STRENGTH REQUIRED BELOW:	ECIFIED		MAXIMUM 50 mm PROJECTION BELOW NUT. CONTRACTOR SHALL USE NECESSARY METHODS TO RESTRAIN EMBEDMENT PLATE NUT FROM TURNING DURING CONCRETE VIBRATION.
		A. 28-DAY STRENGTH: 60 MPa.			K. NO WELDING OF ANCHOR BOLTS IS ALLOWED.
HALL BE Cord.		B. MINIMUM GROUT STRENGTH REQUIRED PRIOR TO AND POST-TENSION: 34 MPa.		REQUIRED	SUBMITTALS:
IG UNLESS THE G.		C. MINIMUM GROUT STRENGTH REQUIRED PRIOR TO FUL TOWER SECTIONS, TURBINE, AND BLADES: 54 MPa.	-		CONCRETE SUPPLIER SHALL SUBMIT A STRUCTURAL MIX DESIGNED BY A REGISTERED PROFESSIONAL ENGINEER IN THE PROJECT STATE FOR
WHEN FREEZING CES AGAINST	G-2	CEMENT-BASED OR EPOXY GROUTS ARE ACCEPTABLE WITH STRUCTURAL ENGINEER. SUBMIT PROPOSED PRODUCT DA APPROVAL BY FOUNDATION STRUCTURAL ENGINEER.		RS-2	APPROVAL PER MINIMUM REQUIREMENTS OF THESE DESIGN DRAWINGS. CONCRETE MIX DESIGN SUBMITTAL TO INCLUDE THE FOLLOWING INFORMATION:
MIXING ABOVE THE CEMENT.		A. WHEN AN EPOXY GROUT IS USED, A WAX BOND BREAK USED BETWEEN THE GROUT AND THE TOWER FLANGE PREVENT THE EPOXY GROUT FROM BONDING TO THE	IN ORDER TO		A. AGGREGATES: TYPES, PIT OR QUARRY LOCATIONS, SHIPPING LOCATIONS, PRODUCERS' NAMES, GRADATIONS, SPECIFIC GRAVITIES, AND TEST RESULTS LESS THAN ONE (1) YEAR OLD.
BE MONITORED /S MINIMUM		B. WHEN AN EPOXY GROUT IS USED, WAIT A MINIMUM O POST-TENSION THE ANCHOR BOLTS AFTER THE EPOXY PLACED IN ORDER TO AVOID POTENTIAL ISSUES WITH	Y GROUT WAS		B. TEST FOR DELETERIOUS AGGREGATE MATERIALS PER CSA A23.1.
ADDITIONAL TE PLACED IN	G-3	THE 28-DAY GROUT STRENGTH IS REQUIRED PRIOR TO TU OPERATION.			C. TEST FOR DELETERIOUS AGGREGATE EXPANSION PER CSA A23.2-25. ALTERNATIVELY, OTHER CSA TESTING METHODS MAY BE USED, UPON ENGINEER APPROVAL, WHICH ESTABLISHES THAT THE AGGREGATES
CRETE CYLINDER DER THE SAME	G-4	THE CONTRACTOR MAY USE A GROUT THAT REACHES THE	e required		BEING PROPOSED FOR USE WILL NOT CAUSE DELETERIOUS EXPANSION DUE TO ALKALI SILICA REACTIVITY (ASR).
FOR EACH OF D-CURED NDERS SHALL BE		GROUT STRENGTH PRIOR TO 28-DAYS AT THEIR DISCRETION FACILITATE TOWER AND TURBINE ERECTION.	ON TO		D. PROPORTIONS OF ALL MATERIALS.
THE ADEQUACY UCTION BETWEEN THE	G-5	CONSULT THE GROUT MANUFACTURER OF THE FOUNDATI ENGINEER-APPROVED GROUT PRODUCT CONCERNING THE FOR EXPANSION JOINTS AS WELL AS PROPER HOT AND COI	USE OR NEED		E. CEMENTITIOUS MATERIALS: TYPES, MANUFACTURING LOCATIONS, SHIPPING LOCATIONS, AND CERTIFICATES SHOWING COMPLIANCE WITH CSA A3001.
R FOUNDATION	REINFOR	USE OF THE PRODUCT.			F. BRAND, TYPE, PRODUCERS, MANUFACTURER'S TECHNICAL DATA SHEETS, AND CERTIFICATION DATA OF ALL ADMIXTURES TO BE USED.
	R-1	REINFORCING STEEL: CAN/CSA-G30.18 (GRADE 400 U.N.O.	)		G. SOURCE OF SUPPLY OF MIXING WATER AND ICE.
		REINFORCEMENT DETAILING SHALL BE IN ACCORDANCE W			H. 28-DAY COMPRESSIVE STRENGTH TEST RESULTS OF TRIAL MIXES SHALL DEMONSTRATE SUFFICIENT MARGIN IN EXCESS OF THE
	R-3	EDITION OF CSA A23.1 AND A23.3. MINIMUM DIAMETER OF BENDS IN REINFORCEMENT SHALL	CONFORM TO		SPECIFIED DESIGN STRENGTH TO ENSURE PROJECT FIELD CONDITIONS WILL NOT PREVENT THE CONCRETE FROM REACHING THE SPECIFIED DESIGN STRENGTH.
AFTER		THE FOLLOWING (UNLESS NOTED OTHERWISE): BAR SIZE MINIMUM INSIDE BEND DIAME	TER		<ol> <li>SLUMP TESTED ACCORDING TO CSA A23.2-5C AND SHALL BE WITHIN 19 mm OF THE MAXIMUM SPECIFIED.</li> </ol>
		10 70 mm 15 100 mm			J. AIR CONTENT TESTED ACCORDING TO CSA A23.2-4C OR A23.2-7C
		20 120 mm 25 150 mm			AND SHALL BE WITHIN 0.5% OF THE REQUIRED AVERAGE AIR CONTENT.
OR SNOW IS		30 250 mm 35 300 mm			K. TEMPERATURE TESTED ACCORDING TO CSA A23.2-17C AND SHALL
ND ACCEPTANCE		35         300 mm           45         450 mm           55         600 mm			BE WITHIN 6 °C OF THE INTENDED MAXIMUM TEMPERATURE OF THE CONCRETE AS MIXED AND DELIVERED.
R OR DAMAGE	R-4	SPACING OF REINFORCEMENT MAY BE ADJUSTED TO ACCC			L. SHRINKAGE TEST RESULTS (IF AVAILABLE).
		CONDUIT INTERFERENCES AND CLEARANCE ISSUES AROUN ANCHOR BOLT ASSEMBLY. REINFORCEMENT SPACING SHAI 500 mm. OVER A 600 mm WIDTH AND SHALL MAINTAIN A CLEAR SPACE BETWEEN PARALLEL REINFORCEMENT OF 40	LL NOT EXCEED MINIMUM		M. STANDARD DEVIATION VALUE FOR CONCRETE PRODUCTION FACILITY (IF AVAILABLE).
T BUILDINGS,		TOTAL NUMBER OF BARS SHALL BE PROVIDED AS SHOWN ( DESIGN DRAWINGS.		RS-3	WHEN THE PROJECT SITE IS EXPECTED TO ENDURE TEMPERATURES BELOW 0 °C, SUBMIT A COLD WEATHER CONCRETING PROCEDURE TO BE APPROVED BY THE PROJECT STRUCTURAL ENGINEER.
LL AVOID HER MATERIALS N LOCATIONS E AGGREGATES	R-5	NO WELDING OF REINFORCING BARS OR TORCHING TO BEI REINFORCING BARS SHALL BE ALLOWED WITHOUT THE SPE APPROVAL OF THE STRUCTURAL ENGINEER.			A. SUBMIT PROPOSED METHOD OF MEASURING CONCRETE SURFACE TEMPERATURE.
N DURING	R-6	REINFORCEMENT INSTALLER/FABRICATOR IS RESPONSIBLE DESIGN AND PLACEMENT OF REINFORCING SUPPORT CHAI ETC.		RS-4	SUBMIT A HOT WEATHER CONCRETING PROCEDURE TO BE APPROVED BY THE PROJECT STRUCTURAL ENGINEER.
	R-7	WHEN CONCRETE IS PLACED, REINFORCEMENT SHALL BE F MATERIALS DELETERIOUS TO BOND.	REE OF		A. SUBMIT PROPOSED METHOD OF MEASURING CONCRETE SURFACE TEMPERATURE.

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	UBMIT A WET WEATHER CONCRETING PROCEDURE TO BE APPROVED BY THE PROJECT STRUCTURAL ENGINEER.			24	Цá	
RS-6 P	RODUCT TECHNICAL DATA INCLUDING:			Unit 24	رمالم	
	A. ACKNOWLEDGMENT THAT PRODUCT SUBMITTED MEETS THE REQUIREMENTS OF THE STANDARD REFERENCED.		3		<u>م</u>	
	B. MANUFACTURER'S INSTALLATION INSTRUCTIONS.	<b>–</b>	5	ad E		
RS-7 R	EINFORCING STEEL:			a Ro	742 742	
	A. SUBMIT STEEL REINFORCEMENT MILL CERTIFICATES WITH PLANT CERTIFICATION.	8	3	Brittania Road East,	(289) (WFron	
	B. SHOP DRAWINGS SHALL SHOW GRADE, SIZES, NUMBER, CONFIGURATION, SPACING, LOCATION, AND ALL FABRICATION AND PLACEMENT DETAILS. PLACEMENT DETAILS SHALL INCLUDE INSTALLATION OF TOP REINFORCING MAT AROUND ANCHOR BOLT CAGE.	<b>MF</b>		1050 Br	Phone (	
	C. SUBMIT A LIST OF SPLICES AND REQUEST TO USE SPLICES NOT INDICATED ON THESE DESIGN DRAWINGS.	NO	ECT	>	-	
	D. SUBMIT REQUEST AND PROCEDURE TO FIELD BEND OR STRAIGHTEN REINFORCEMENT PARTIALLY EMBEDDED IN CONCRETE.		ROJ	É	NO	
	E. SHOP DRAWINGS SHALL PROVIDE SUFFICIENT DETAIL TO PERMIT INSTALLATION OF REINFORCEMENT WITHOUT REFERENCING THE CONTRACT DRAWINGS.	ONSTRU	WIND PROJE		NA C	
	F. SUBMIT A REQUEST TO RELOCATE ANY REINFORCEMENT THAT EXCEEDS SPECIFIED PLACEMENT TOLERANCES.	0 U	M		ARIC	
	G. OBTAIN APPROVAL OF SHOP DRAWINGS BY STRUCTURAL ENGINEER BEFORE FABRICATION.	BOREA	ERICHO	AMF		
RS-8 A	NCHOR BOLTS:	1 0 0	R			
	A. SUBMIT ANCHOR BOLTS AND ASSOCIATED HARDWARE FOR APPROVAL.		Ë			
	B. SUBMIT MILL CERTIFICATES FOR ANCHOR BOLTS INDICATING YIELD AND ULTIMATE STRENGTHS.	HH		2		
	C. SUBMIT A POST-TENSIONING PROCEDURE FOR APPROVAL. PROCEDURE SHALL INCLUDE THE POST-TENSIONING METHOD TO BE USED, AND DEFINED SEQUENCE OF POST-TENSIONING BOLTS. PROCEDURE SUBMITTED SHALL PROVIDE NECESSARY ACCURACY TO MEET POST-TENSION TOLERANCES DEFINED ON THESE DRAWING.	TS 79.7m 8.7 CWE/S	TURBINE	SPECIFICATIONS SHEET		
	1. TENSION THE ANCHOR BOLTS USING HYDRAULIC JACKS EQUIPPED WITH A PRESSURE GAUGE CALIBRATED TO THE JACK WITHIN AN ACCURACY OR PLUS OR MINUS 2%.	100 NAMTS IIIB GE 48.7	•	ATION		
	2. CALIBRATE THE GAUGE OR DYNAMOMETER IMMEDIATELY BEFORE USE ON PROJECT.	<u>6-100</u> C IIIB	<i><b>UNIM</b></i>	CIFIC		
	3. THE PRESSURE GAUGE SHALL HAVE GRADUATIONS NO LARGER THAN 700 kPa.	<u>5E 1.6</u> IEC TC		SPE		
	<ol> <li>JACKING FORCE REQUIRED TO PRODUCE THE PRESTRESSING FORCE AND CALCULATED ELONGATION SHALL BE STATED IN POST-TENSIONING PROCEDURE.</li> </ol>					
	5. DURING POST-TENSIONING, VISUALLY VERIFY THAT THE PRESTRESSING FORCE IS ADEQUATE BY COMPARING THE MEASURED ELONGATIONS TO THE CALCULATED ELONGATIONS WITHIN 1.5 mm.					
	D. SUBMIT A CALIBRATION PROCEDURE AND TESTING PROCEDURE PROPOSED FOR APPROVAL.				CONSTRUCTION	
	E. SUBMIT ANCHOR BOLT TEST DATA SHOWING TENSION VALUES. A MINIMUM OF SIX (6) ANCHOR BOLTS SHALL BE TESTED.				NSTRU	
RS-9 E	MBEDMENT PLATE:					NO
	A. SUBMIT MILL CERTIFICATES FOR EMBEDMENT PLATE INDICATING THE MINIMUM YIELD STRENGTH OF THE MATERIALS.				ISSUED FOR	ESCRIPTIO
	B. SHOW WELD OR SPLICE DETAIL FOR CONNECTING PLATE SEGMENTS.				ISSI	
RS-10 T	EMPLATE PLATE: REFER TO NOTES ON EMBEDMENT RING DETAIL.				013	
RS-11 S	UBMIT A GROUT PRODUCT TO BE APPROVED BY PROJECT ENGINEER.				2/6/20	DATE
	UBMIT A GROUTING PROCEDURE TO BE APPROVED BY THE STRUCTURAL NGINEER.					
U	UBMIT TECHNICAL DATA SHEET OF JOINT SEALANT PRODUCT TO BE SED FOR SEALING THE JOINT BETWEEN THE GROUT AND THE TOWER LANGE.	DESIGN CHECK	IED BY	L ZH		REV
		PRC	JECT #	130	07	
	L. M. ZHOU	FILENA JERICH		WINC	SFT	
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	WCE OF UN	S <sup>.</sup>	-11		0	

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	RS-14 THE STRUCTURAL ENGINEER REVIEW OF THE SHOP DRAWINGS DOES NOT RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY OF THE ACCURACY	ii. ONE (1) MIN. PRIOR TO ERECTION OF NACEL	LLE AND
	CONTAINED WITHIN EVERY DOCUMENT SUBMITTED.	iii. THREE (3) MIN. PRIOR TO TURBINE OPERATIO	ON.
	RS-15 A SPECIFICATION OF THE INTENDED STRUCTURAL BACKFILL MATERIAL SHALL BE SUBMITTED TO THE GEOTECHNICAL ENGINEER OF RECORD FOR REVIEW AND APPROVAL.	iv. THREE (3) MIN. SPARE CUBES (TO BE TESTED NEEDED).	ONLY I
INST	TALLATION TOLERANCES:	2. WHEN AN EPOXY-BASED GROUT IS USED:	
	ALL CONCRETE CONSTRUCTION TOLERANCES SHALL CONFORM TO ALL REQUIREMENTS OF CSA A23.1 AND CSA A23.4, EXCEPT AS MODIFIED BY THESE DESIGN DRAWINGS.	i. THREE (3) MIN. TO BE TESTED AT INTERVALS AT THE CONTRACTOR'S DISCRETION PRIOR BOLT POST-TENSIONING AND ERECTION OF ROTOR.	TO ANC
	IT-1 OVERALL BASE HEIGHT AND BASE TOP REINFORCEMENT TOLERANCE: +25 mm, -12 mm.	ii. SIX (6) MIN. PRIOR TO TURBINE OPERATION, SOONER THAN SEVEN (7) DAYS AFTER GROU	
	IT-2 TEMPLATE AND EMBEDMENT RING LOCATION IN PLAN: +/- 12 mm.	iii. SIX (6) MIN. SPARE CUBES (TO BE TESTED ON	
	IT-3 CLEAR COVER TOLERANCES: +/- 12 mm.	BUT TESTED NO SOONER THAN SEVEN (7) DA GROUT PLACEMENT.	AYS AFT
	IT-4 EMBEDMENT RING ELEVATION DIMENSION FROM SUBGRADE (OR MUDMAT): +/- 12 mm.	3. GROUT CUBES MUST ACHIEVE THE STRENGTH SP THESE DRAWINGS PRIOR TO THESE ERECTION ST	
	<ul><li>IT-5 PEDESTAL DIAMETER: -12 mm, +50 mm.</li><li>IT-6 BASE DIAMETER: -25 mm, +75 mm.</li></ul>	TI-5 AT ANY LOCATION WHERE STRUCTURAL BACKFILL IS REQ THE FOUNDATION, THE TESTING AGENCY SHALL TEST CO PERCENT AND MOISTURE CONTENT AT EACH LIFT IN ACC	OMPACT
	IT-7 ANCHOR BOLT PLUMBNESS TOLERANCE: $\frac{1}{4}$ DEGREE MAXIMUM.	THESE DRAWING SPECIFICATIONS.	
	TING/INSPECTION REQUIREMENTS:	ANCHOR BOLT POST-TENSION MAINTENANCE (BY OWNER):	
	TI-1 CONTRACTOR SHALL HIRE QUALIFIED TESTING AGENCY TO PERFORM TESTING ON SOILS, CONCRETE AND GROUT AS SPECIFIED IN THIS DESIGN	AB-1 THE FOLLOWING ON-GOING ANCHOR BOLT POST-TENSION SCHEDULE AND PROCEDURE SHALL BE FOLLOWED:	N MAIN <sup>-</sup>
	<ul> <li>TI-2 CONTRACTOR SHALL SUBMIT ALL TESTING DATA TO ENGINEER AT END OF PROJECT. STRUCTURAL ENGINEER SHALL BE CONTACTED IN WRITING IF ANY OF THE TESTS PERFORMED DO NOT MEET THE SPECIFICATION OF</li> </ul>	A. RANDOMLY CHECK THE POST-TENSION ON 10% OF T EACH TURBINE FOUNDATION; CHECK AN EQUAL NUM ON THE INSIDE AND OUTSIDE OF THE TOWER. THE A POST-TENSION VALUES AT EACH TURBINE FOUNDATION CHECKED AT THE FOLLOWING INTERVALS:	ABER OF
	THIS DOCUMENT.	1. SIX (6) MONTHS AFTER TURBINE OPERATION BEG	JINS.
	TI-3 CONCRETE TESTING SHALL BE PERFORMED RANDOMLY AND IN ACCORDANCE WITH THE FOLLOWING:	2. YEARS 1-5: ANNUALLY.	
	A. OBTAIN CONCRETE SAMPLES IN ACCORDANCE WITH CSA A23.2-3C. OBTAIN AT LEAST ONE (1) COMPOSITE SAMPLE FOR EACH 100 CU.	3. OVER 5 YEARS: EVERY 2 YEARS.	
	METERS IN THE BASE AND A MINIMUM OF ONE SAMPLE FOR EACH PEDESTAL.	B. PASSING IS ACHIEVED WHEN ALL POST-TENSION VALU ANCHOR BOLTS EXCEED 90% OF THE ORIGINAL POST VALUE. A HYDRAULIC JACK SHALL BE USED TO PULL I CELECTED ANGLING POLTS TO THE ORY MALLES.	-TENSIC EACH O
	B. DETERMINE SLUMP OF EACH COMPOSITE SAMPLE TAKEN IN ACCORDANCE WITH CSA A23.2-5C.	SELECTED ANCHOR BOLTS TO THE 90% VALUE. WHE BOLTS TO THIS POST-TENSION, THERE SHALL BE NO ( THE NUTS AND WASHERS, AND THE NUT SHALL NOT	gaps be
	C. DETERMINE TEMPERATURE OF EACH COMPOSITE SAMPLE TAKEN IN ACCORDANCE WITH CSA A23.2-17C.	TURNED BY HAND. IF ANY INDIVIDUAL BOLT PER TUR LIFTING OFF THE WASHER AND ALLOWING THE NUT T BY HAND, THE REMAINING 90% OF BOLTS ON THAT P	TO BE T
	D. DETERMINE AIR CONTENT OF EACH COMPOSITE SAMPLE USING CSA A23.2-4C OR CSA A23.2-7C.	TURBINE FOUNDATION SHALL BE CHECKED. IF THE 90 POST-TENSION VALUE IS NOT MET ON ANY PARTICUL FAILING BOLT SHALL BE POST-TENSIONED TO 100% C	AR BOL
	E. TESTING AGENCY SHALL PERFORM CONCRETE COMPRESSIVE STRENGTH TESTS ACCORDING TO CSA A23.2-9C.	REQUIRED POST-TENSION.	
	<ol> <li>IF 100 mm X 200 mm OR 150 mm X 300 mm CYLINDERS ARE BEING USED, CONCRETE CYLINDERS SHALL BE TESTED AT THE FOLLOWING TIME INTERVALS:</li> </ol>		
	i. ONE (1) AT 3-DAYS.		
	ii. ONE (1) AT 7-DAYS.		
	iii. TWO (2) AT 14-DAYS.		
	iv. TWO (2) AT 28-DAYS.		
	v. TWO (2) SPARE CYLINDERS (TO BE TESTED ONLY IF NEEDED).		
	2. TESTING AGENCY SHALL PROVIDE AIR AND SLUMP TESTING FOR FIRST THREE (3) TRUCKLOADS DELIVERED EACH DAY TO ENSURE BATCH PLANT CONCRETE IS WITHIN THESE SPECIFICATIONS.		
	F. THE STRENGTH LEVEL OF CONCRETE WILL BE CONSIDERED SATISFACTORY WHEN:		
	<ol> <li>THE AVERAGES OF ALL SETS OF THREE CONSECUTIVE COMPRESSIVE STRENGTH TEST RESULTS MOLDED AND CURED IN ACCORDANCE WITH THE REQUIREMENTS OF CSA A23.2-9C EQUAL OR EXCEED F'C.</li> </ol>		
	2. NO INDIVIDUAL STRENGTH TEST RESULT FALLS BELOW F'C BY MORE THAN 3.5 MPa WHEN F'C IS 35 MPa OR LESS, OR BY MORE THAN 0.10F'C WHEN F'C IS MORE THAN 35 MPa.		
	H. THERE IS NO TESTING REQUIREMENT FOR THE LEAN (MUD MAT) CONCRETE.		
	TI-4 GROUT TESTING SHALL BE PERFORMED ACCORDING TO THE FOLLOWING:		
	A. FOR EPOXY GROUTS, COMPRESSIVE STRENGTH SHALL BE TESTED IN ACCORDANCE WITH ASTM C579.		
	B. FOR CEMENT-BASED GROUTS, COMPRESSIVE STRENGTH SHALL BE TESTED IN ACCORDANCE WITH CSA A23.2-1B.		
	C. TESTING AGENCY SHALL SAMPLE GROUT FOR COMPRESSIVE STRENGTH TESTS ACCORDING TO CSA A23.2-1B EXCEPT AS MODIFIED IN THIS SECTION. GROUT CUBES SHALL BE TESTED AT THE FOLLOWING TIME INTERVALS:		
	1. WHEN A CEMENT-BASED GROUT IS USED:		
	i. ONE (1) MIN. PRIOR TO ANCHOR BOLT POST-TENSIONING.		

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		CWE CONSUITAINTS, ULC			1050 Brittania Road Fast, Unit 24	Mississanda ON 14W4N9 Canada	Phone (289) 742-0035	www.CWEconsultants.com	
	RORFA CONSTRUCTION		IEPICHO WIND PROIECT			LAMBTON COUNTY.	ONTARIO CANADA		
	GE 1.6-100 NAMTS 79.7m HH		WIND LUKBINE		SPECIFICATIONS SHEFT 3				
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		(	ANTICIPATED NET SLS	ANTICIPATED FACTORED NET ULS		4	10750
TURBINE ID	EASTING (m)	NORTHING (m)	BEARING CAPACITY	BEARING CAPACITY (kPa)		DIAMETER	18750 DIAME
1 2	422934 425395	4782626	225	385	0.99		
3 4	425072 426390	4782306 4782888	-	275	0.01		
6 7	427880 429900	4782909 4783065	375	525	0.00		
<u>8</u> 9	431218 432948	4782647 4782666	105	170 160	<u>1.17</u>		
10 11	432980 423300	4782332 4781540	95 170	160 250	0.61		
12 13	423455 425096	4781110 4781354	235 215	350 325	0.00 0.00		
14 15	425407 425432	4780588 4779689	200 200	300 300	0.00		
16 17	425427 425438	4779324 4779000	235 220	350 325	0.00		
18 19	424671 426919	4777622 4781538	200 300	300 450	0.00		
20 21	427625 426904	4781512 4779457	340 270	500 400	0.00		
22 23	427490 426912	4779351 4779123	235 300	350 450	0.00		
24 25	427496 426702	4778951 4778723	335		0.48		$\sim$
26 27	426793 429702	4777497 4781114 4780420	255	385	0.00	f	
28 29	428834 429082	4780429 4779472	300	2,500 425	0.00 0.00		
30 32	428966 432946	4779176 4780524 4780620	270 90	400 150	0.50		$\sim$
33 34	433468 433305	4780620 4778809	185	275			
35 36 37	423023 423163 422709	4774153 4773804 4773270	200 190 200	300 285	0.70	<u> </u>	
37 38 39	422315	4773370 4772336 4775510	135 160	300 200	0.00		
40 41	424752 424739 425265	4775510 4774511 4774348	<u> </u>	240 325 230	0.00 0.00 0.00		
41 42 43	425195 424568	4773894 4773358	133 170 200	230 260 300	0.00		
43 44 45	424308 425250 427315	4773338 4771778 4775969		200	0.00		
45 46 47	<u>427313</u> <u>427344</u> 427230	4775093 4774277	325 190	490 275	<u> </u>		
47 48 49	427230 426991 426878	4773869 4773491	130 140 220	275 225 325	0.00 0.57		
49 50 51	426937 426974	4773188 4772870	220 220 200	325 330 300	0.62	hann	
51 52 53	426800 426701	4772226 4771707	190 200	280 300	0.00		
53 54 56	420701 427078 429249	4771459 4775281	135 135	200 200	0.00		
57 58	429070 428800	4774660 4774175	133 160 240	200 240 360	0.00		
58 59 60	428800 429218 428729	4773628 4772001	175	300	0.07 1.98 0.00		
61 62	428725 428870 428396	4771602 4771388	190 200	285 300	0.00		
63 64	<u>428350</u> <u>429171</u> 429434	4771388 4771190 4770999	200 200 185	<u>300</u> 275	0.00		
65 66	431622 430977	4776681 4775907	175 ( 240	273 260 360	0.00		
67 68	431368 430927	4775755 4775519	285	425	0.00		
69 70	431033 431153	4775239 4774338	135 150	200	0.00		
71 72	<u>431413</u> 431241	4773975 4773292	285	425	0.00		
73	431190 431458	4771673 4771501	165 200	250 300	0.00		
75	430375 430783	4770394 4770250	150 200	225 300	0.00		
78 79	<u>433148</u> 433468	4776918	210 ( 230	300 320 345	0.00	·····	$\sim$
80 81	433011 433464	4775171 4775119	270	400	0.00		
82 83	433893 433198	4775152 4773791	285	425	0.00		
84 85	433120 433574	4773447 4773553	200 335	300 500	0.00		
86 88	432842 423333	4771321 4771025	165 175	260 260	0.00 0.00		
89 90	423570 424258	4770500 4770677	185 200	275 300	0.00 0.00		
91 92	425041 425439	4770310 4770368	135 200	230 300	0.00 0.00		
94 96	430779 423842	4768868 4769183	150 200	275	0.57	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	$\sim$
97 102	423840 433049	4768848 4766446	185 350	280	0.79		
103 104	433371 423276	4766165 4765200	300	450	0.00		
105 106	421483 426830	4763567 4783362		270 750	0.26		
107 108	433424 432869	4776577 4771130	185 210	300 325	0.00		
109 112	429142 429214	4769404 4773348	170 200	260 325	0.00		

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		SEE NOTE 3 POTENTIAL OVEREXCAVATION REQUIRED, SEE NOTES 1 AND 3	)
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## NOTES:

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1.	REFER TO THE GEOT S-7 FOR EXCAVATIO REQUIREMENTS FOR
2.	MOUND SOIL OF A D RAISED OVER THE E ORDER TO MAINTAI AT THE FOUNDATIO
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3.	THESE DESIGNATED
	AND MUST HAVE A
•	THE BACKFILL MATE
•	SCOUR ANALYSIS AI
•	PROTECTION PLAN.

