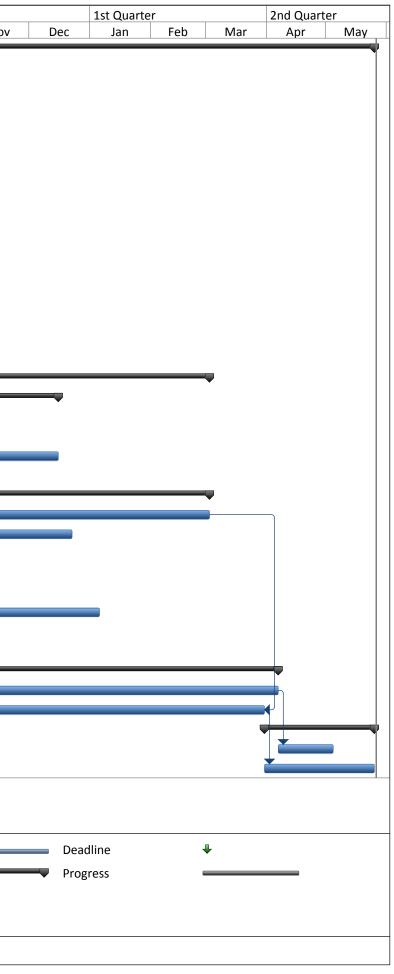
Northland Power Solar Empire L.P., Northland Power Solar Martin's Meadows L.P., Northland Power Solar Abitibi L.P., Northland Power Solar Long Lake L.P. Exhibit C Tab 1 Schedule 1 Page 1 of 4

PROJECT PLANNING

Project Schedule

ID	0	Task Mode	Task Name		Start	Finish	r Feb	Mar	2nd Quarter Apr May	Jun	3rd Quarter Jul	Aug	Sep	4th Quarte Oct	er Nov
1	<u> </u>		Northland Co	chrane Solar 115k	V Fri 01/03	/13 Mon	Feb	Iviar	Apr Iviay	Juli	Jui	Aug	Sep	Οίι	NOV
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3		3	Geotechnie	cal Investigations	Mon 04/0	3/13 Mon 29/04/1	3	—							
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5		3	115kV T	ransmission Line	Mon 04/0)3/13Mon 29/07/1	3								
6		3	Line D	esign & Procureme	ent Mon 04/0	3/13 Mon 29/04/1	3	—							
7		3	Found	lation Design	Mon 29/0	4/13 Mon 10/06/1	3		T						
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9		3	Issue	for Construction	Mon 01/0	7/13 Mon 29/07/1	3				— —				
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Critical Constraints

The Ministry of Environment ("**MOE**") Renewable Energy Approvals ("**REA**") for the Generation Projects and Transmission Facilities were filed at the end of October, 2012 and beginning of November, 2012. As such, based on the MOE's three month service guarantee, the Applicant anticipates receiving MOE approval of each REA by the end of June, 2013.

In addition to obtaining REA approvals, six crossing agreements must be entered into with various agencies and parties. These are noted in the "Land Matters", Exhibit F, Tab 1, Schedule 1 of this Application. The six agreements and current status are as follows:

- (a) Ontario Northland Railway: engineering approval received on December 12, 2012 and waiting on legal agreement (see Exhibit F, Tab 1, Schedule, 2);
- (b) Frederick House River (MNR): the MNR has been provided with the preliminary drawings of the proposed crossing for review and the Applicants have been advised that a Work Permit will be considered and applications will be processed by the MNR upon the MOE approving the REA;
- (c) Algonquin Power 115 kV Transmission Line: Algonquin Power was provided with drafts of the proposed overhead crossing on November 29, 2012 and no response has yet been provided;
- (d) H2O Power LP 115 kV Transmission Line: H2O Power LP was provided with drafts of the proposed underground cable crossing on November 29, 2012, and a response was provided on the same day indicating that the crossings are acceptable to H2O Power;
- (e) MTO Highway 668 (Encroachment Permit EC-2012-53C-20: approved, on December 16, 2012 (see Exhibit, Tab, Schedule); and
- (f) HONI Transmission Line: HONI is aware that the Applicants must cross its existing easement, given the proposed routing of the transmission line and the Calder SS. HONI was contacted on December 19, 2012 and was provided with the proposed underground cable crossing plans. The underground cable crosses HONI's overhead circuits C2H and C3H and easement Instrument No. C11912. registered on October 19, 1931 in favour of The Hydro-Electric Power Commission of Ontario. HONI advised the Applicants that it will produce a list of requirements for the crossing, as is standard for any crossing agreement. In addition, HONI advised the Applicants that it would not be completing the work necessary for the crossing and the Applicants will therefore undertake to complete this work. A draft copy of the proposed crossing agreement is provided in Exhibit F, Tab 1, Schedule 2 of this Application.

Additionally, a Road User's Agreement is to be entered into between the Applicants and the Town of Cochrane, and a Work Permit must be obtained from MNR

A draft of the proposed form of the Road User's Agreement (Exhibit F, Tab 1, Schedule 2) was sent to the Town of Cochrane on August 16, 2012 for review and comment. The Town's Solicitor provided comments on January 17, 2013. The Parties are working together to finalize this agreement.

The MNR has been provided with the preliminary drawings of the proposed works (transmission line in the road RoW and unopened road RoW) for review. The Applicants have been advised that a Work Permit will be considered and an application will be processed upon the MOE approving the REA.

Prolonged Adverse Weather Conditions

The Engineering, Procurement, and Construction ("EPC") contracts that will be executed by the Applicant for the construction of the Generation Sites and Transmission Facilities contemplate up to a 10 to 12 month construction window, with adequate provisions for weather delays. Extensive or prolonged adverse weather delays are considered and allowances are made and accounted for in the construction contracts. Extraordinary weather or conditions causing delays, such as (for example) hurricanes, tornadoes, floods and forest fires, would likely qualify as events of force majeure.

Furthermore, it is possible, and in some cases preferred to so some of the construction work over the winter months, for example site preparation and clearing of trees because the ground is firm or frozen and there are fewer environmental constraints (for example, no nesting or migrating birds).

Availability of Qualified Contractors and/or Skilled Trades Persons

The Applicants will contract with an established general contractor for the construction of the Generation Projects, and Transmission Facilities. As previously stated, the Generation Projects will cost on the order of \$200 million, and will be the largest undertaking, compared to the estimated \$10 million cost for the Transmission Facilities.

The general contractor that the Applicants select to construct the Generation Projects will be responsible to contract with qualified subcontractors to construct the Transmission Facilities.

The estimated capital cost of approximately \$10 million for construction of the Transmission Facilities is a relatively small undertaking, compared to other projects, and resources and contractors are not expected to be limited.

Construction Windows Due to Environmental Constraints

It is preferable to construct the Transmission Facilities during the late spring, summer, and early fall months, and this construction period typically ranges between May and November. However, it is possible, and in some cases advantageous, to perform certain construction

activities outside of this 6 or 7 month construction window. For example, it may be preferable to do some line clearing and grubbing in the late fall or over the window for two reasons:

- (a) to avoid any issues with migrating or nesting birds; and
- (b) to clear vegetation and trees when the ground is frozen.

In addition, it is possible to perform some construction throughout the winter months, albeit at reduced productivity, depending on weather conditions and temperatures.

The Projected and Contractual In-Service Date for the Facilities

The contractual OPA Milestone Commercial Operation Dates ("MCOD's") for the Generation Facilities are as follows:

- Abitibi and Martin's Meadows September 5, 2014.
- Empire and Long Lake September 6, 2014.

It will be necessary for the construction of the Transmission Facilities to be complete by September 2014 in order for the Applicants to meet their required MCOD's of the respective Generation Projects.

PROJECT DETAILS

The Transmission Facilities associated with the Generation Projects will consist of the following:

- 115 kV switching station (Calder SS), located at the point of connection of the four Generation Projects to the HONI 115 kV transmission system;
- Approximately 350 metres of 115 kV underground cable (part of Segment A) from the Calder SS to the Transition Station
- 115 kV underground cable connecting Calder SS to the Transition Station
- 27.6-115 kV step-up transformer substation (Main TS) of the 3 eastern Generation Projects (Martin's Meadows, Abitibi and Empire)
- Approximately 21 kilometres of 115 kV overhead transmission line (part of Segment A) connecting the Transition Station to the Main TS
- 27.6-115 kV step-up transformer substation (Calder TS) of the Long Lake solar Project
- Approximately 500 metres of 115 kV overhead transmission line (Segment B) connecting Calder TS to Calder SS

A detailed description of the Transmission Facilities is provided in Exhibit B, Tab 1, Schedule 1, paragraphs 8-18. Single-line diagrams of the proposed Transmission Facilities are attached as Exhibit B, Tab 2, Schedule 5.

All overhead transmission lines will be single-circuit, single pole design. The proposed pole height will vary between sixty-five (65) and eighty-five (85) feet. Taller poles may be required for crossing over railways, water bodies and other transmission/distribution lines. Overhead transmission line preliminary plan and profile drawings and stringing charts are provided in Exhibit D, Tab 1, Schedule 3.

Typical span between consecutive poles will be approximately one-hundred (100) meters. Transmission line poles on straight runs will be single wood/composite poles, primarily self-supporting, buried in soil or rock foundations (as required by the geotechnical studies), whereas corner/turning structures, where required, will be guyed wooden/composite poles or steel monopoles. Overhead transmission line pole structure summaries and typical pole details are provided in Exhibit D, Tab 1, Schedule 3. Overhead lines will be equipped with a single, Optical Ground Wire (OPGW) for transmission line lightning protection and housing of optical links for protections, communications and SCADA.

Overhead transmission line design criteria and clearances will conform to Canadian Standards Association (CSA) requirements.

The conductor preliminarily selected for all overhead transmission line circuits is 336 ACSR - Linnet. Taking into account that according to the requirements of the Electrical Code, 25% of the transmission line ampacity must be reserved for overloads, the resulting maximum capacity

of the conductor for continuous operation will be 90 MVA. Thus the size of the overhead transmission line conductor is in excess of what is required for safe operation of the transmission facilities. The conductor has been oversized in an effort to reduce electrical losses.

The underground cable between the Transition Station and Calder SS will consist of three (3) single-phase conductors, each equipped with a concentric neutral and an interstitial fiber/optic cable for SCADA, communications and protections. A separate fiber optic cable may also be provided. The underground power cables will be laid in flat or trefoil formation in the trench and will be encased in sand. Cables will be mechanically protected as required by electrical codes and in accordance with specifications produced by the Engineer. Road crossing mechanical protection and cable installation requirements will additionally comply with MTO requirements. The cables will be installed approximately 6 feet below grade. A ground continuity conductor will also be provided for the underground cable installation. The underground power cable manufacturer and size has not yet been selected. However, it is anticipated that the cables will be sized to carry a minimum of 90 MVA on a continuous basis, so as to match the ampacity of the overhead circuits.

Underground cable installation typical burial and duct bank cross-section details are provided in Exhibit D, Tab 1, Schedule 3.

Preliminary layouts of Calder SS, Calder TS and Main TS, including major equipment are provided in Exhibit B, Tab 2, Schedule 5.

The insulation systems of all Transmission Facilities will at minimum be rated to operate continuously at voltages of up to and including 132 kV, as per requirements detailed in the IESO SIA.

Surge arresters will be installed on all phases at overhead line termination points in substations, transformer terminals and transitions between overhead line and high voltage insulated cables. All surge arrester ratings will be reviewed by HONI. Direct lightning strike shielding will be provided for all substations and will comply with IEEE and industry-accepted guidelines.

High voltage (115 kV) automatic isolation devices (breakers) will be located at the Calder SS, Calder TS and Main TS. These devices will be equipped with "A" and "B" breaker failure protections, programmed into line protection relays. An independent, 115 kV motorized disconnect switch, complete with a grounding switch and interlock will be installed on the line side of each high voltage interrupter. The 115 kV motorized disconnect switch will serve as the visual isolation device, at the point interconnection to the HONI transmission system and will comply with the provisions of the OEB's Transmission System Code ("TSC"). In the preliminary specification, all high voltage breakers will be rated for a fault interrupting capability of not less than 50 kA rms. High voltage breaker typical opening time will be three (3) cycles. Such ratings exceed the requirements of the TSC.

The Transmission Facility grounding will consist of grounding systems at the Calder SS, Calder TS, Main TS, new 115 kV transmission line towers, Transition Station, medium voltage collector systems of the Generation Projects, all of which will be interconnected as a single composite grounding system. All grounding systems will be sized at minimum to carry the maximum available ground fault current for the longest expected duration, governed by the breaker fail clearing duration and industry-accepted safety margins. All safety grounding systems will be designed to comply with the requirements of the Ontario Electrical Safety Code as well as ANSI/IEEE standards.

"A" and "B" protection systems will be provided for all high voltage transmission lines, high voltage busses, HONI tele-protections and main step-up transformer differential protections. High voltage relays in distinct protection groups will use separate current transformers and voltage transformer windings. Protection relays in distinct protection groups will be sourced from different manufacturers.

The 115 kV HONI tele-protections will comply with all HONI specifications and technical requirements. HONI has indicated "A" and "B" 115 kV tele-protections will utilize duplicate, monitored Bell S4T4 circuits or direct fiber optic links from Calder SS the HONI Hunta Switching Station. The connection has been classified by HONI as being non-NPCC impactive and as such telecommunications circuit path diversity is not required for protections. The generation rejection scheme will, however, require geographic path diversity, as per NPCC and NERC requirements. It is anticipated that communications required for generation rejection will utilize microwave and/or Bell S4T4 circuits.

Protection systems at the Calder SS, Calder TS and Main Transformer Substation will be supplied from two (2) local 125 VDC battery banks at each location. Each direct current system will be capable of carrying all local 125 VDC loads for a minimum duration of eight (8) hours. A manual transfer scheme will be provided at each location to allow the transfer of all local DC loads to either "A" or "B" local bank in the event of single battery bank maintenance. All critical 125 VDC supplies will be continuously monitored and failures will alarm in the Supervisory Control and Data Acquisition ("SCADA") system.

Equipment will be provided, for the transmittal of all required telemetry/SCADA quantities to HONI and the IESO. Real-time Power Quality Monitoring ("PQM") will be implemented at the point of HONI interconnection. All Transmission Facility intelligent electronic devices, including digital protective relays and remote terminal units will be equipped with Sequence of Event Recorders ("SER"). Digital protective relays will provide all necessary Digital Fault Recording ("DFR").

The functionality of all Transmission Facility protection systems will be verified at the time of commissioning, six (6) months following the in-service date, and on a four (4) year maintenance cycle. Signal adequacy tests of the 115 kV HONI tele-protection communication channels will be conducted on a twelve (12) month maintenance interval, with channel performance testing taking place every twenty four (24) months.

Minor inspections of major transformers will be completed on an annual basis and will include activities such as a visual inspection, cleaning of bushings, test operate of fans and tap changer on all taps as well as oil dissolved gas analysis test of the main tank and tap changer oil compartment.

Major transformer maintenance will be completed on a six (6) year cycle and will include, in addition to all annual maintenance items, power factor test of bushings and windings, testing of all transformer accessories, insulation resistance, tap ratio test as well as a verification of all annunciation points.

All high voltage isolation devices (breakers and disconnect switches) will be inspected on an annual basis including visual inspection of all bushing, bases, structures, ground mats and accessories as well as functionality test of all mechanical box and breaker tank heaters. Major breaker and disconnect switch maintenance will be completed on a six (6) year cycle and will include all annual maintenance items as well as timing tests, contact resistance measurements and bushing power factor tests of breakers. Major disconnect switch maintenance items will include lubrication, as well as contact resistance verification.

Overhead transmission line vegetation control will follow HONI and industry practices and will comply with all IESO as well as NERC/NPCC requirements.

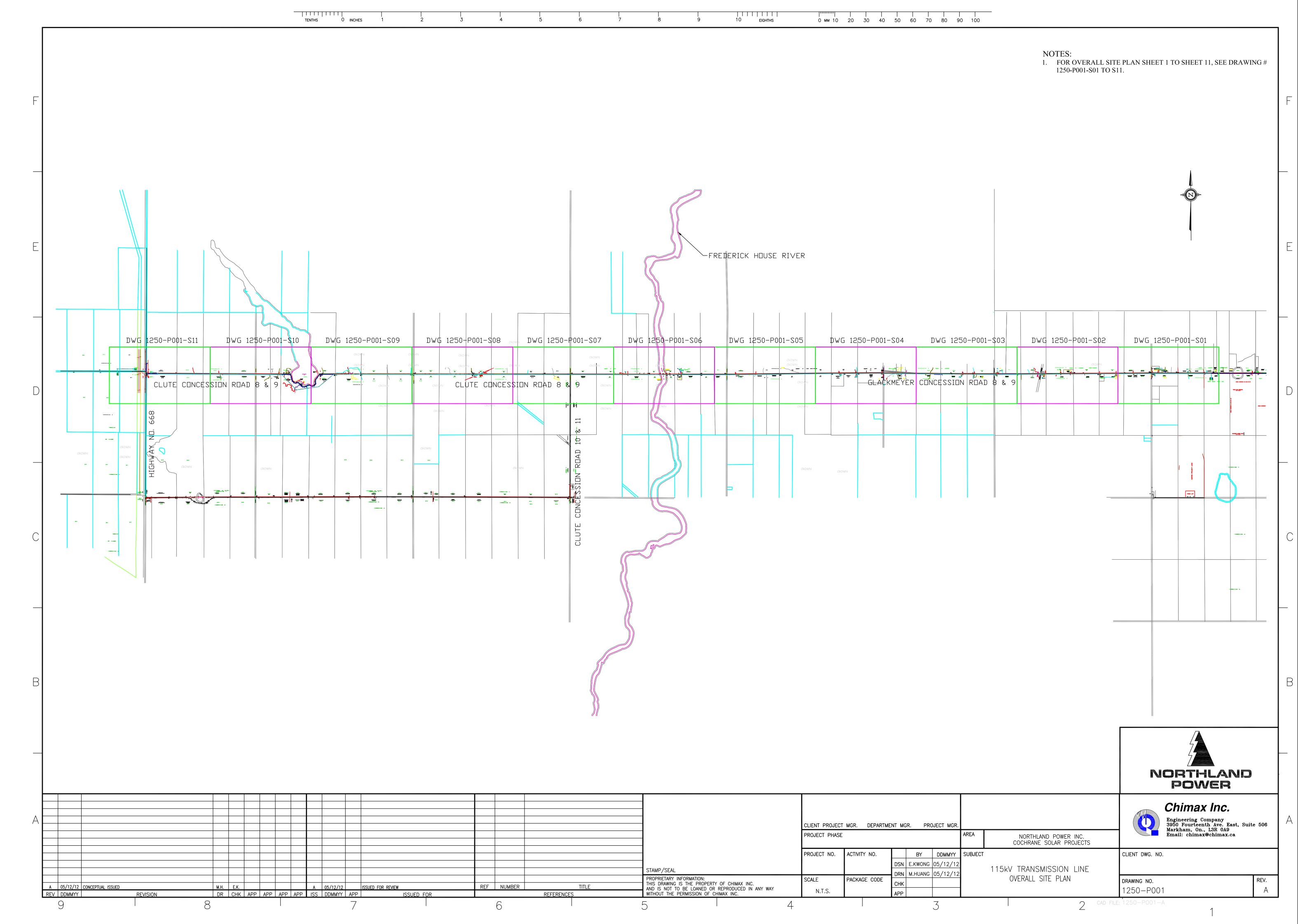
Infra-red scanning of all high voltage electrical connections, major electrical equipment as well as overhead lines and buswork will be completed on an annual basis.

Plant controls will be programmed to ensure that islanded operation of the Generation Projects and automatic re-closing of high voltage breakers, following clearing of electrical faults within Transmission Facilities and out in the HONI transmission system, is inhibited. Plant control systems, including supervision from digital protective relays in the breaker close control circuits, will ensure that live line-dead bus conditions are present prior to and during solar plant controlassisted closing of all high voltage switching devices.

Project preliminary design and design description were submitted to IESO and HONI for review and connection approval. The review included a verification of the preliminary design of the Transmission Facilities to ensure that the requirements of the TSC have been fully satisfied and sufficient transmission system capacity is available to allow connection of the Generation Projects. The connection of the Generation Projects to the HONI transmission system, as designed, was approved and the single line diagram was posted on the IESO/HONI websites. Northland Power Solar Empire L.P., Northland Power Solar Martin's Meadows L.P., Northland Power Solar Abitibi L.P., Northland Power Solar Long Lake L.P. Exhibit D Tab 1 Schedule 2 Page 1 of 1

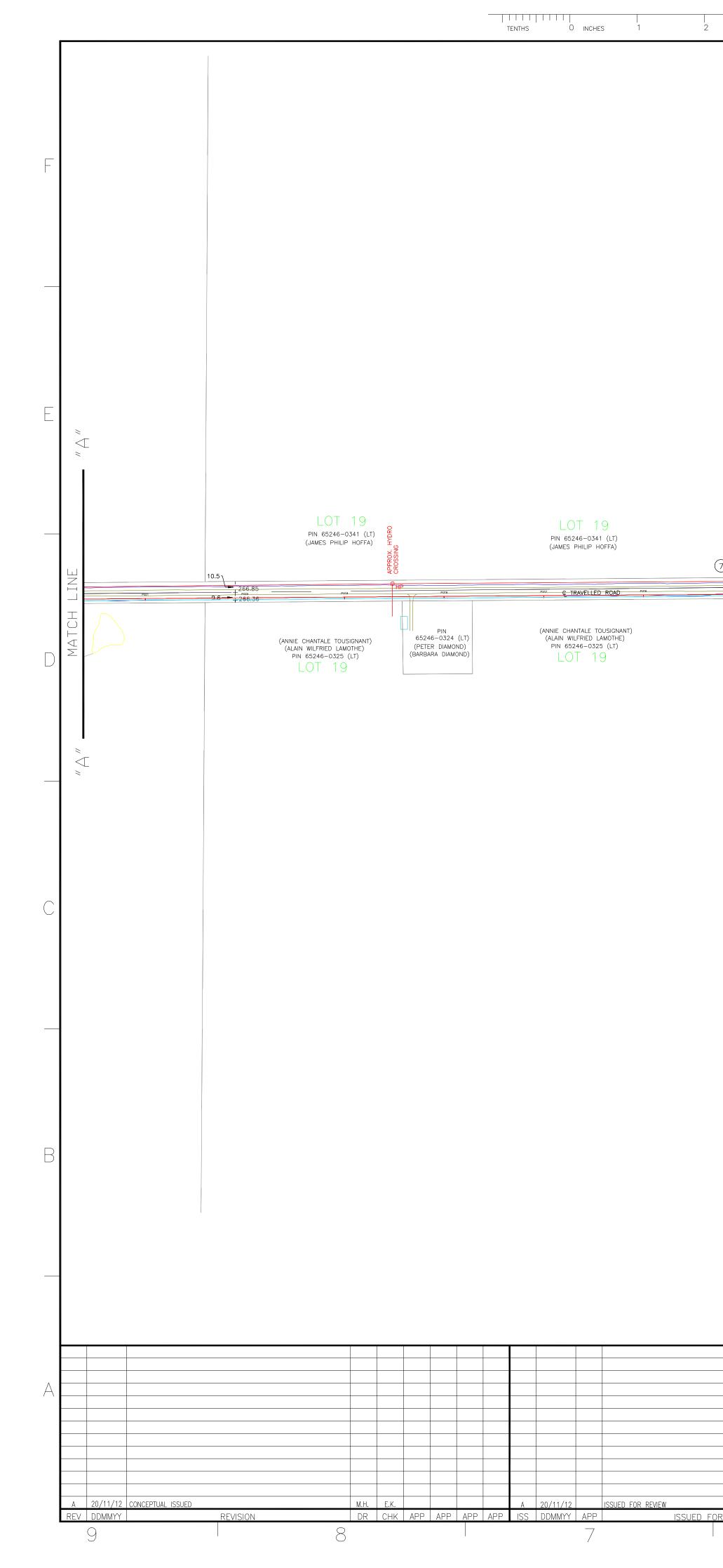
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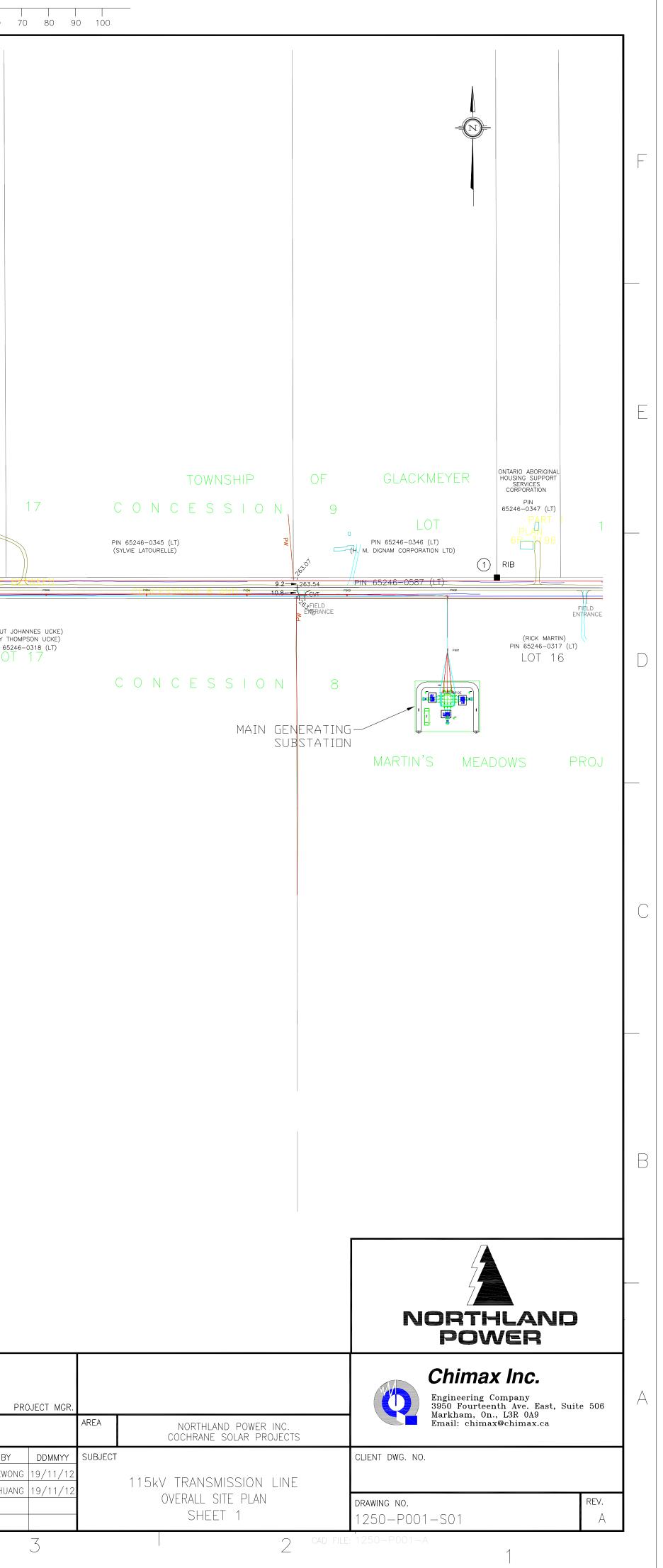
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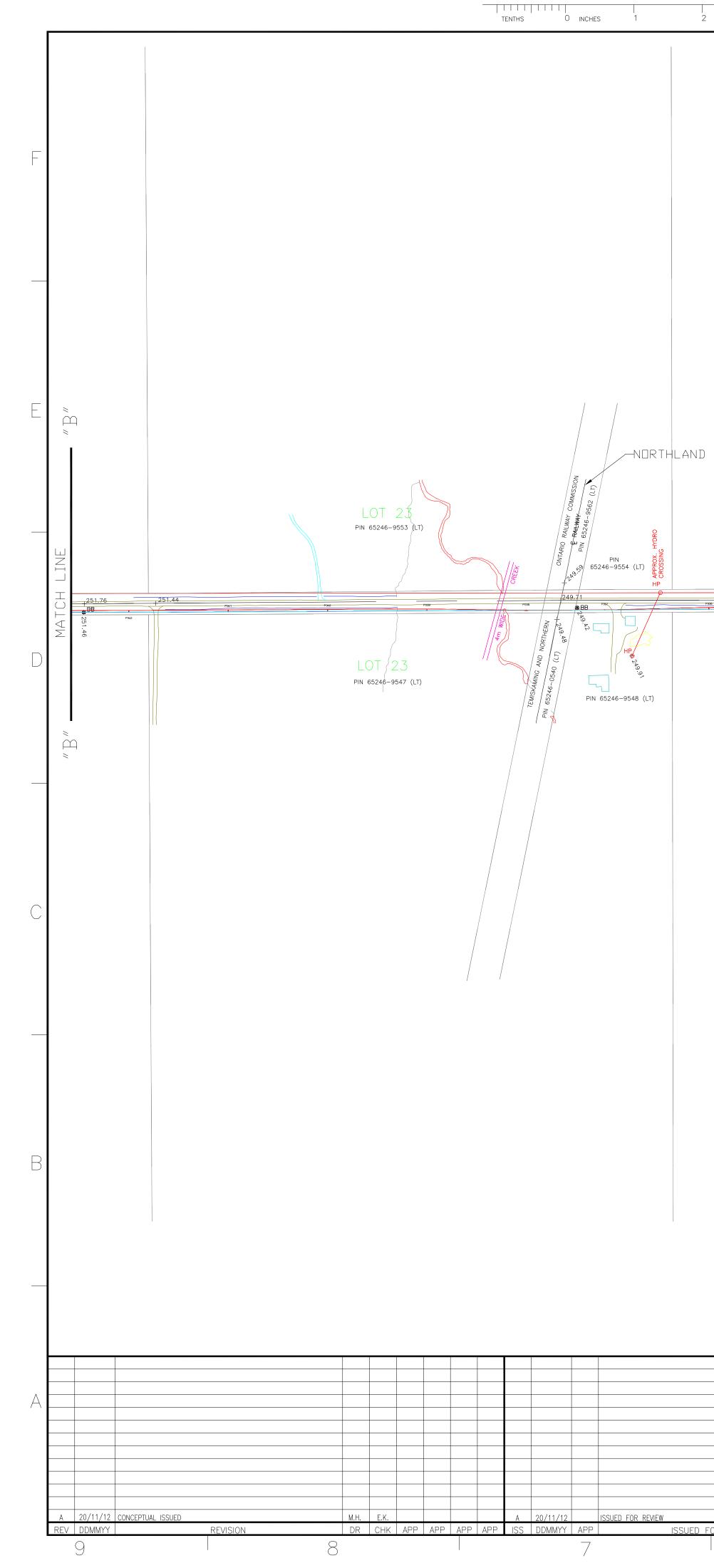
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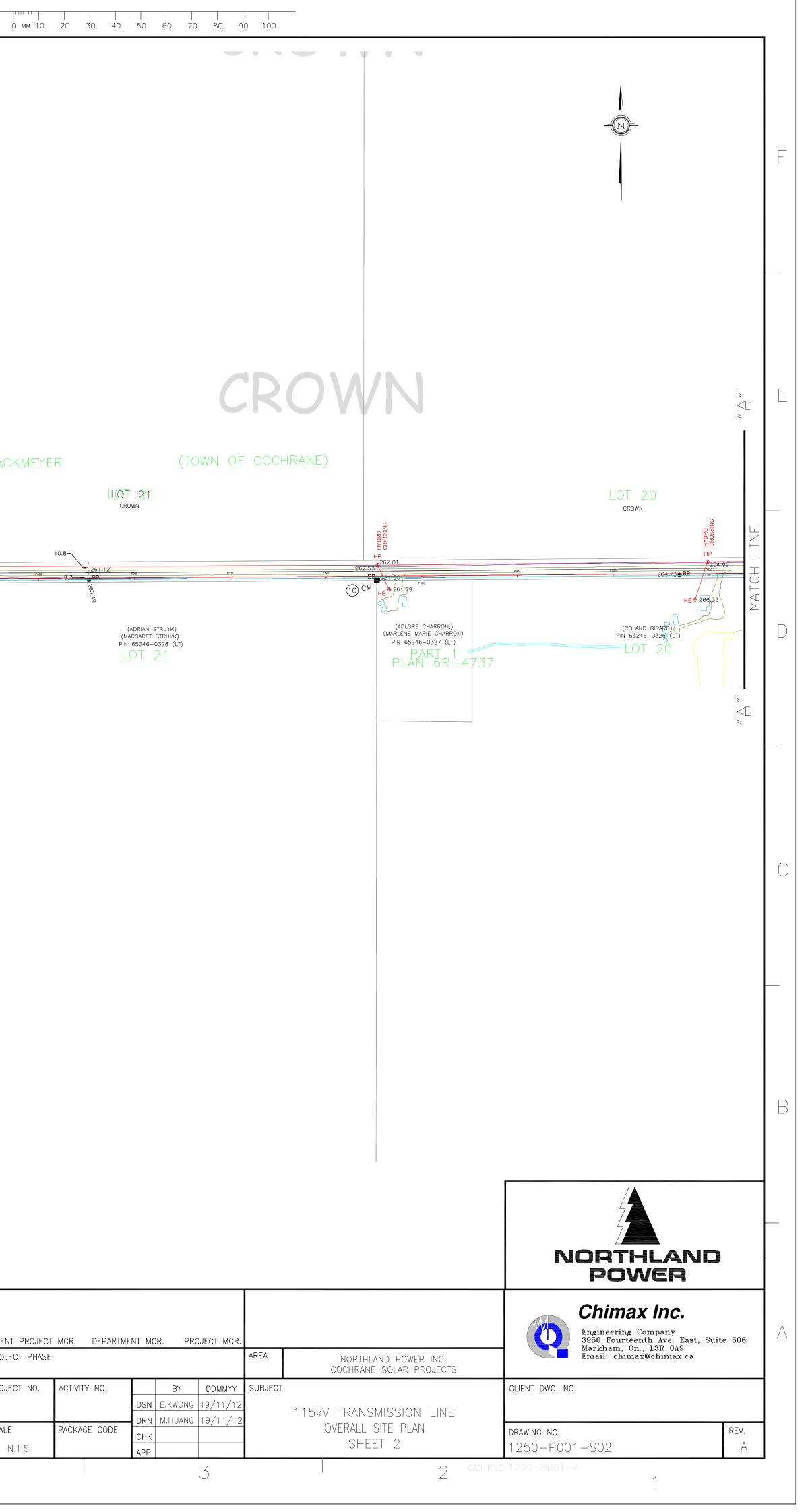
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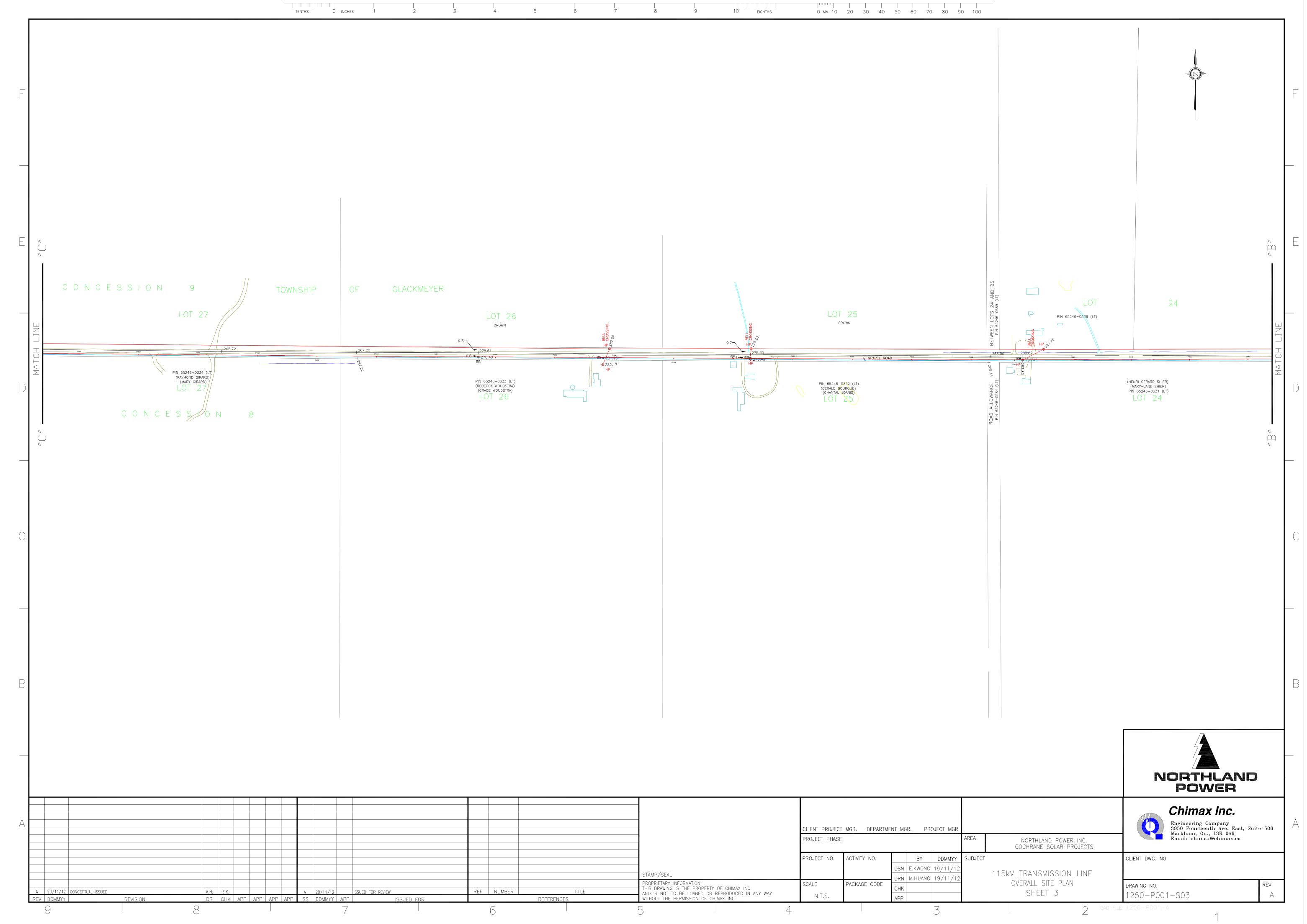




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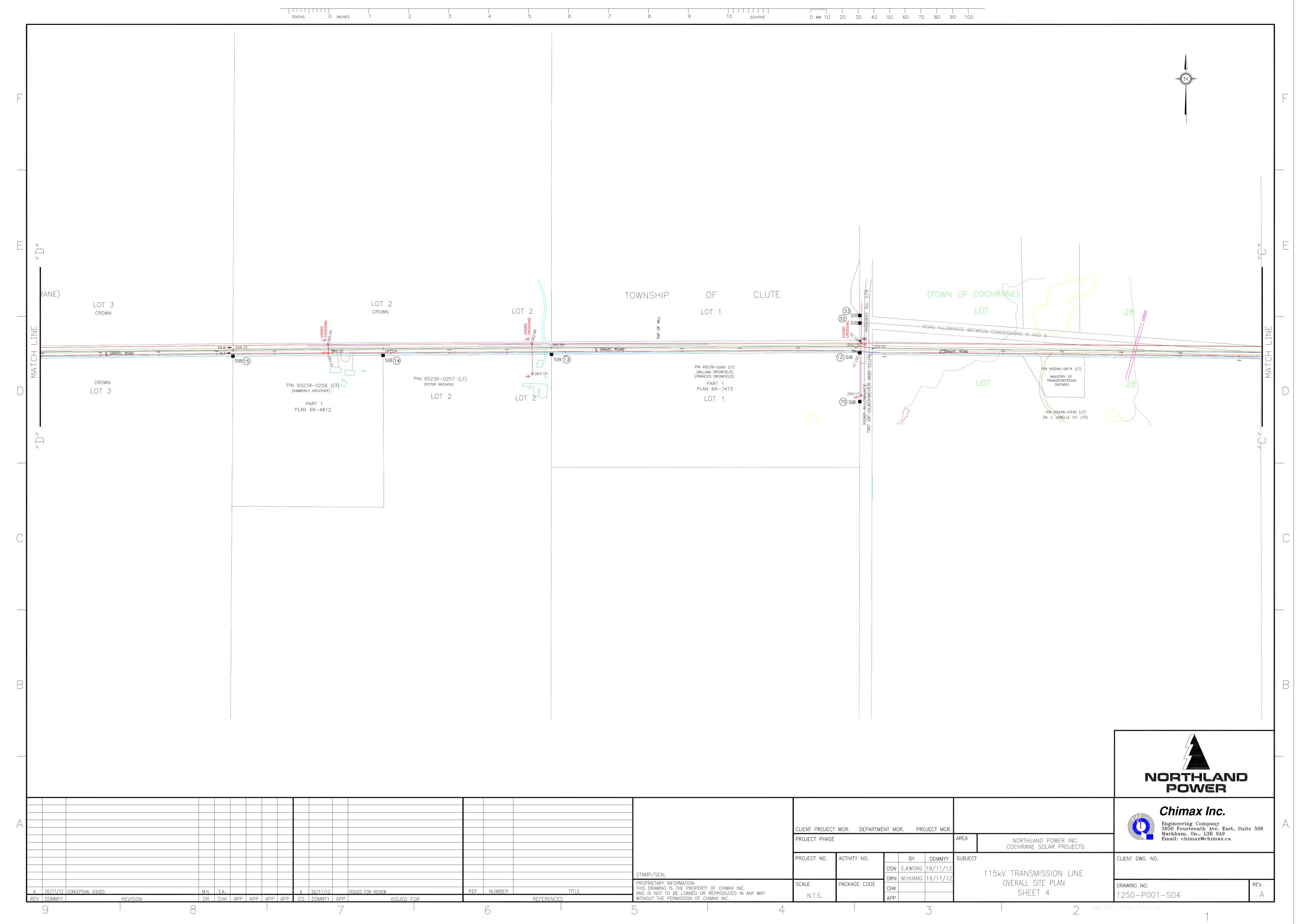
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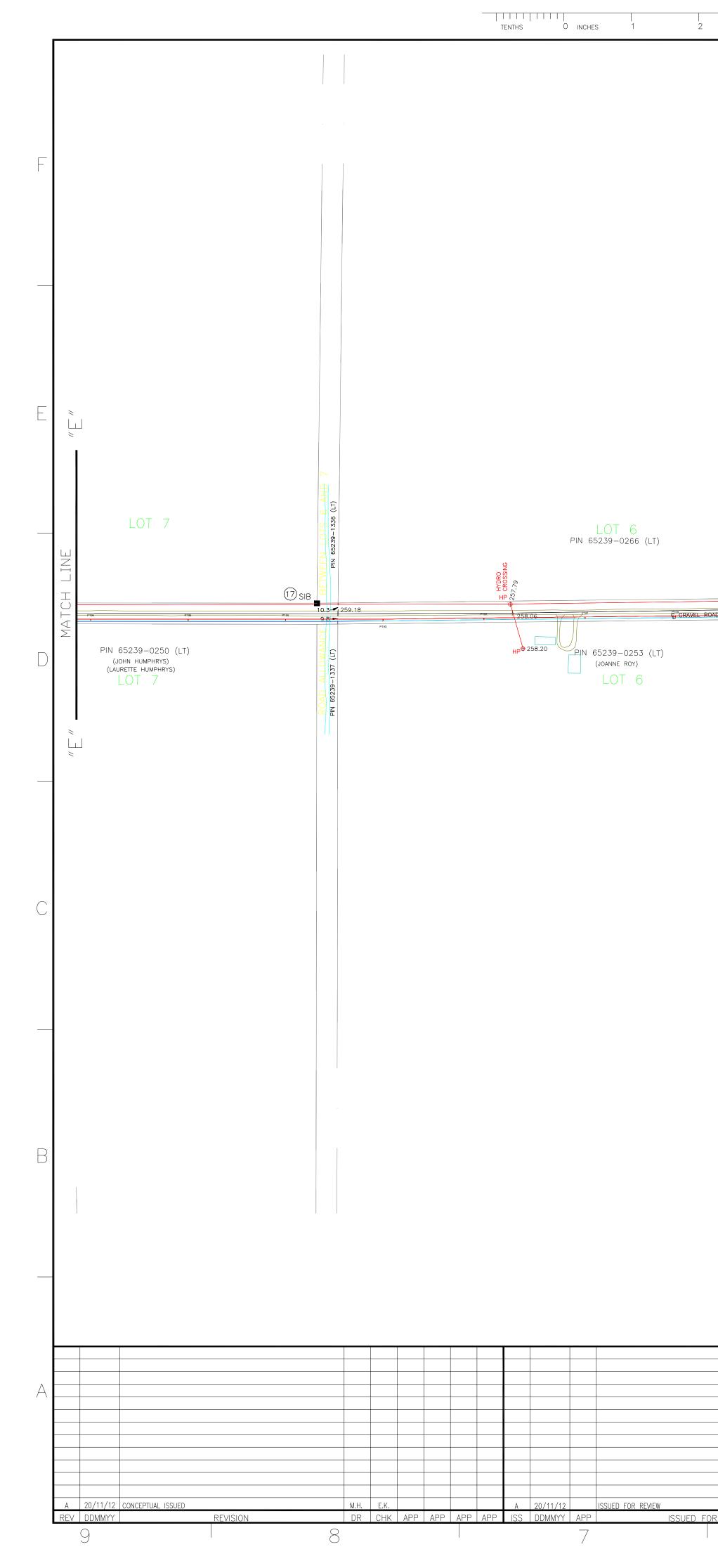


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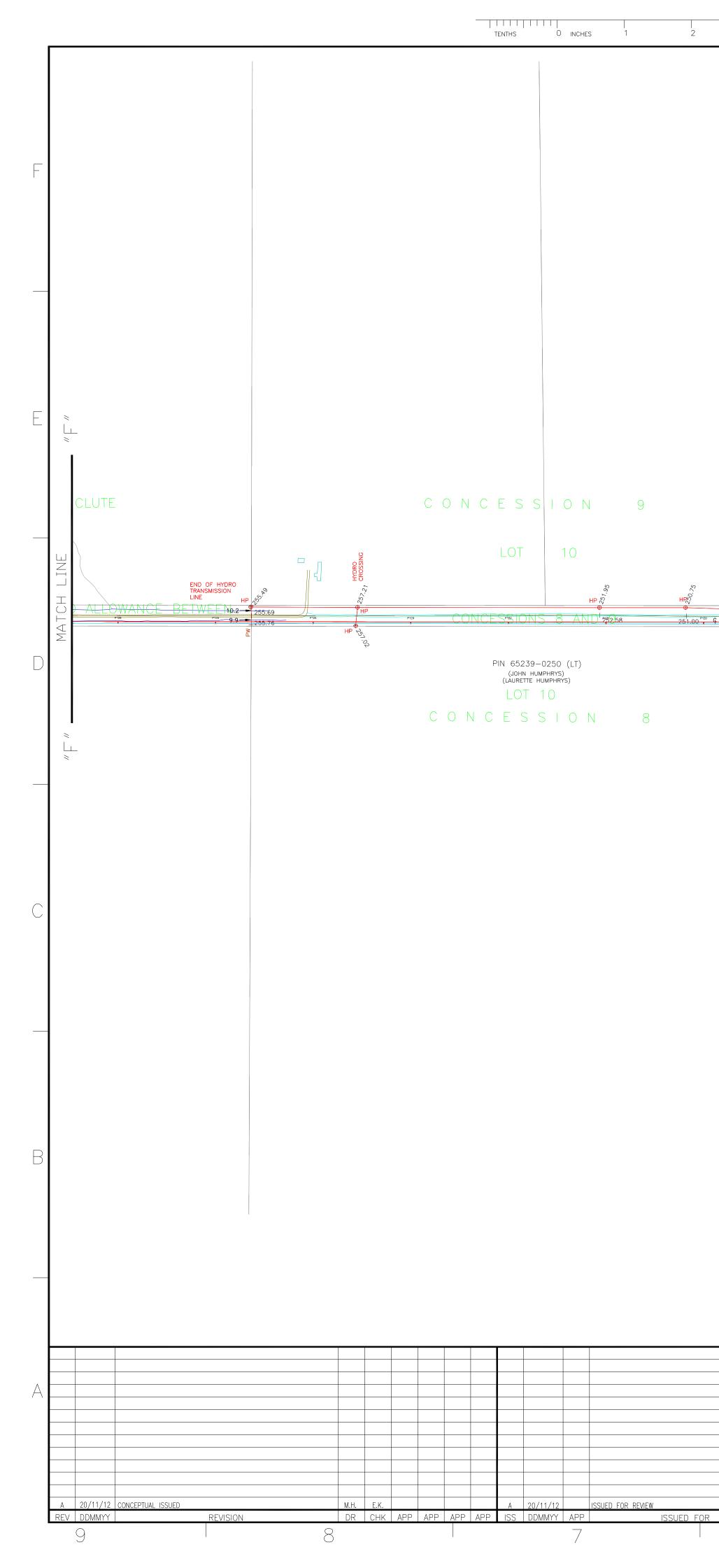


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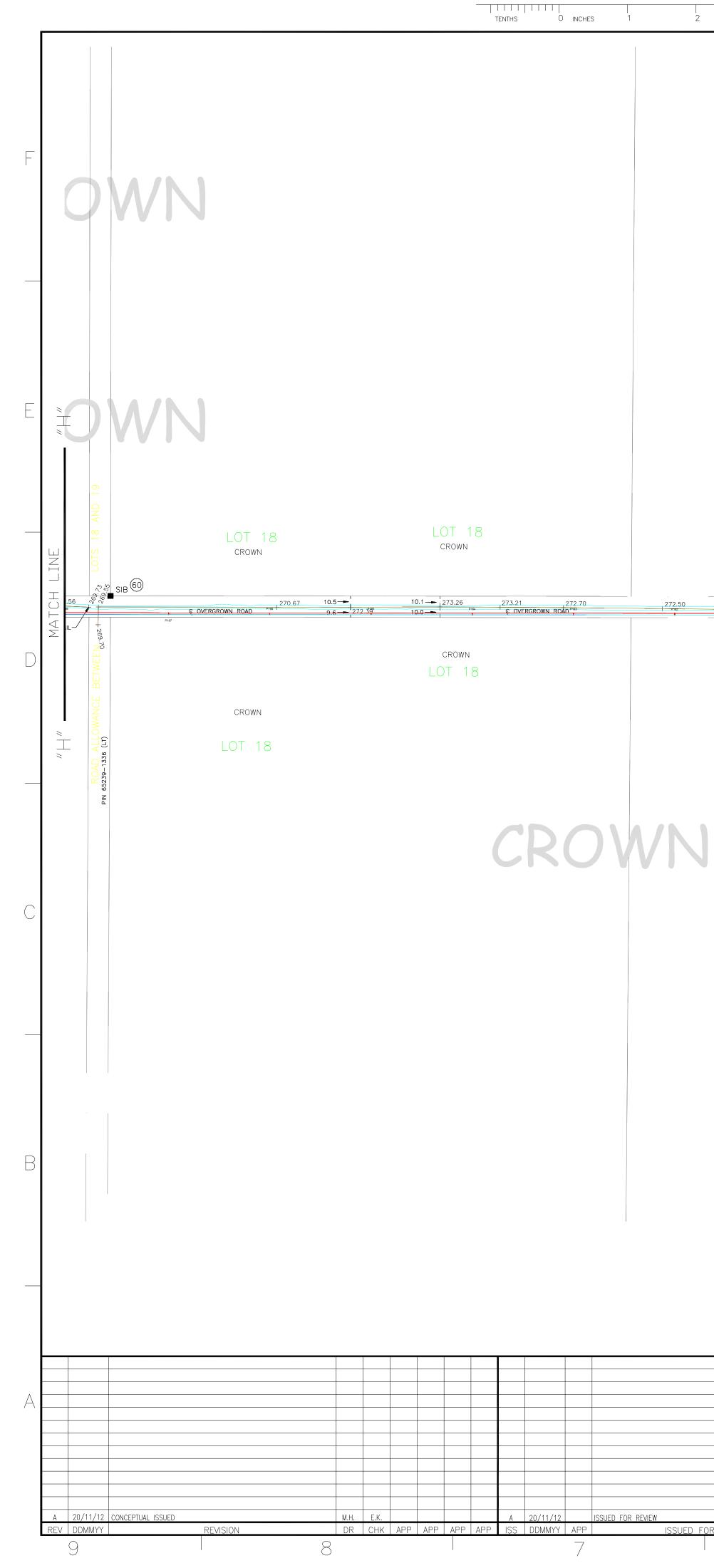


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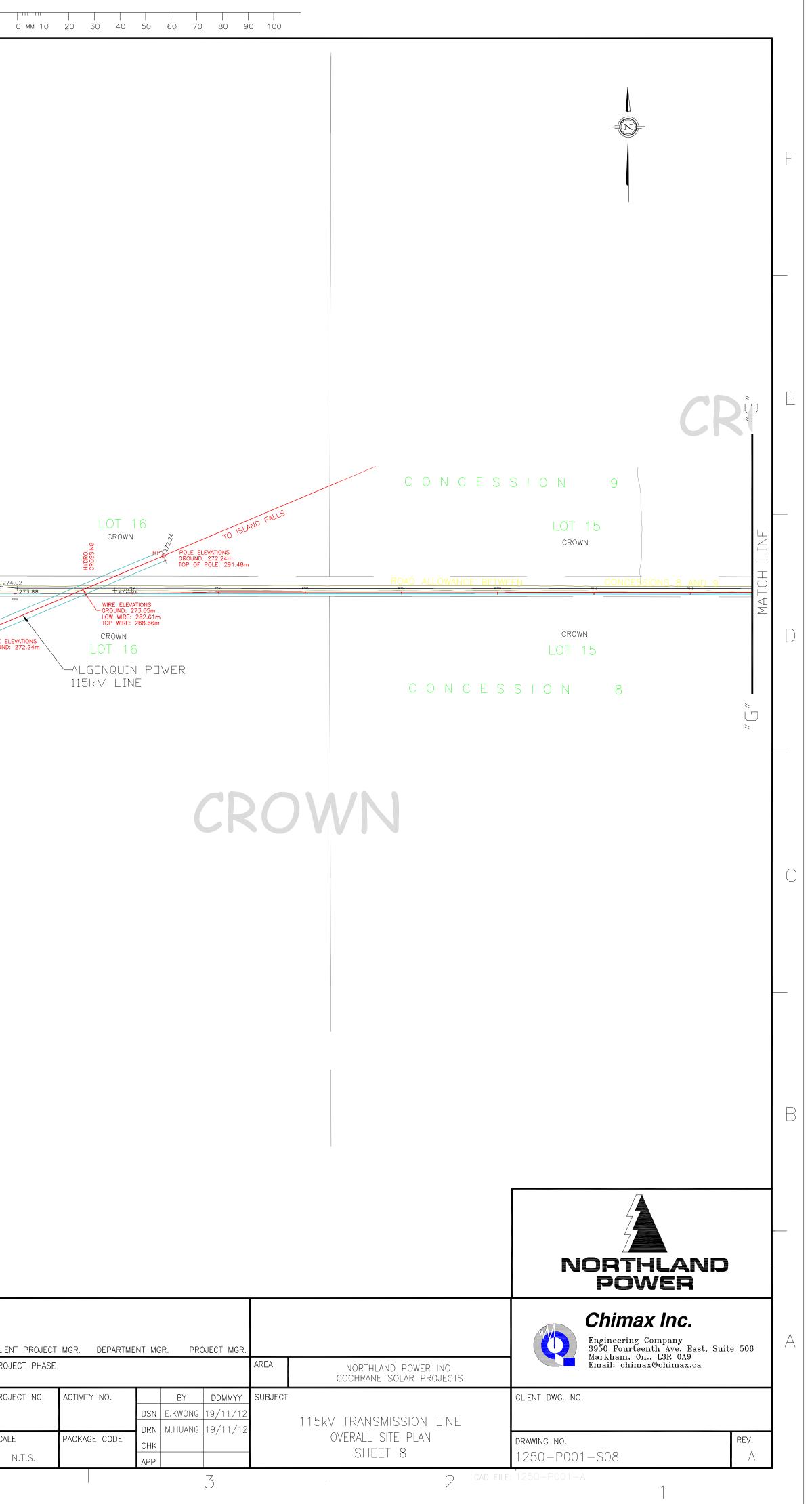


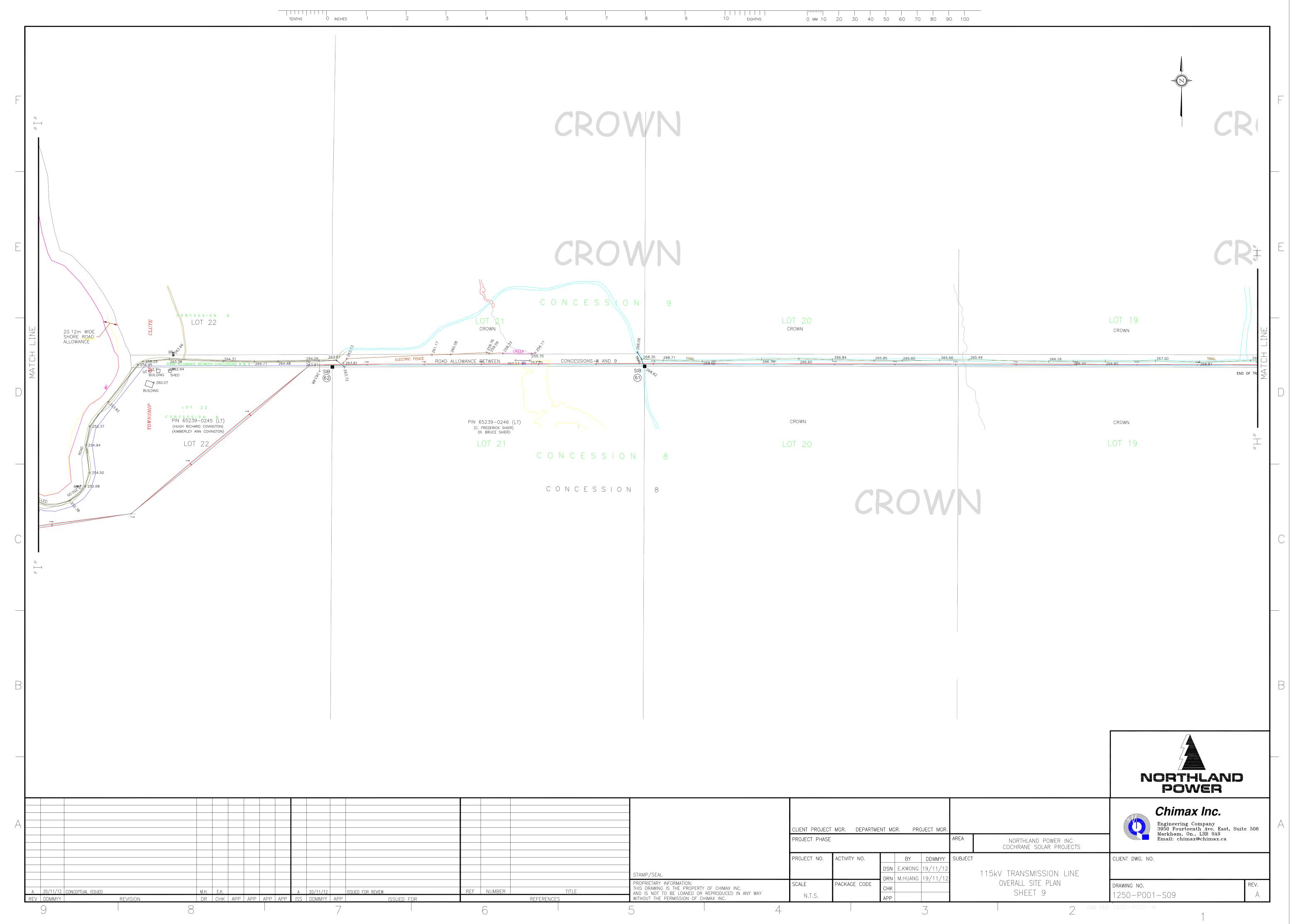


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					STAMP/SEAL		PROJECT NO.	ACTIVITY NO.		BY E.KWON M.HUAN
FOR	REF	NUMBER	TITLE REFERENCES		PROPRIETARY INFORMATION: THIS DRAWING IS THE PROPERTY OF CHIMAX INC. AND IS NOT TO BE LOANED OR REPRODUCED IN ANY WAY WITHOUT THE PERMISSION OF CHIMAX INC.		SCALE N.T.S.	PACKAGE CODE	CHK APP	
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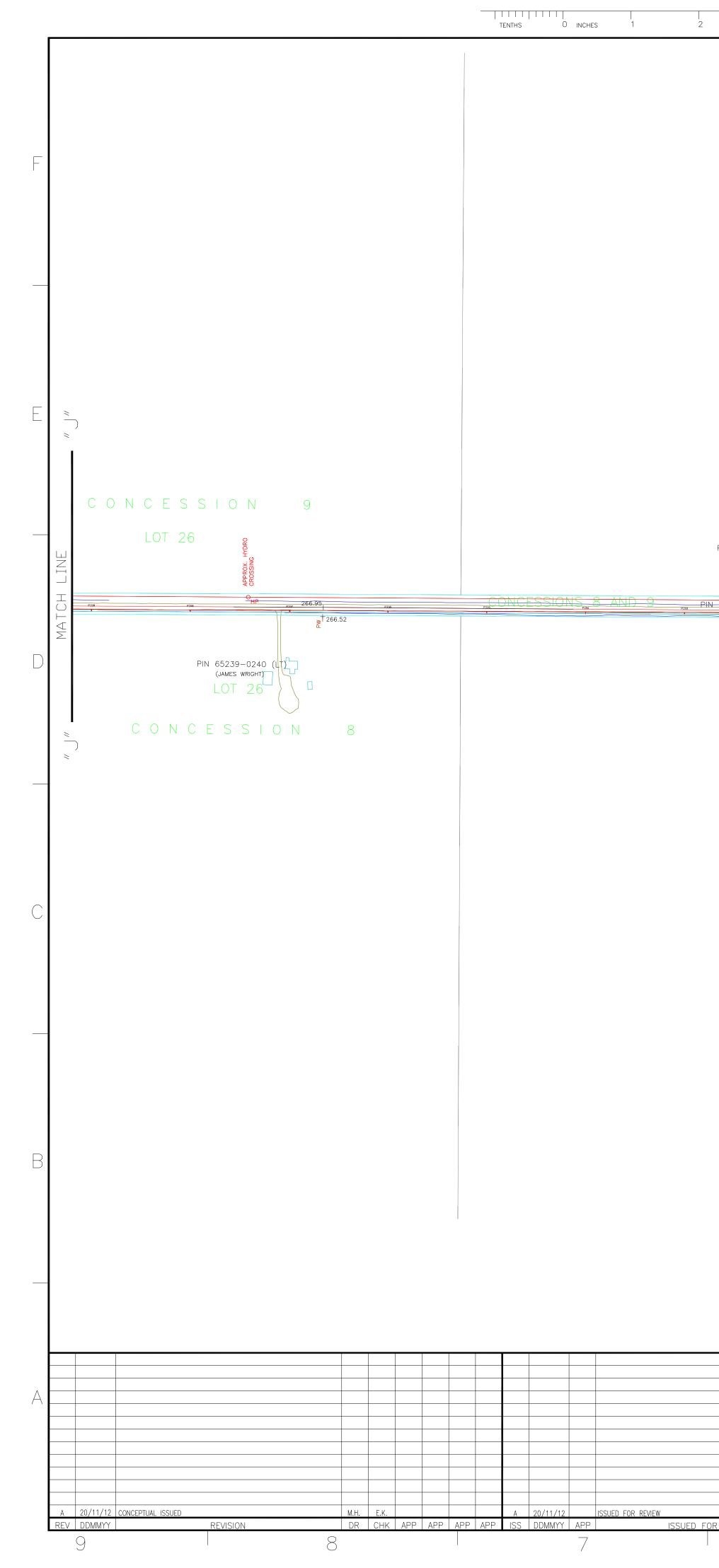
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							CF	<i>SC</i>) V	/N					
272.43	3P161	272.45	27	72.22	LOT 17 crown		273.02	- OVERGROWN ROA	273.36 2	73.62 11.5 27	- Contente hores	274.02 274.02 274.05 P155	2.99	LOT CROW	HP C POL GRC TOP
		-			crown LOT 17		9			8.6 ►		(GPS) PISS HP POLE ELEVATIO GROUND: 272.	DNS 24m	WIRE ELE GROUND: LOW WIRE TOP WIRE CROWN LOT 1	EVATIONS 273.05m E: 282.61m E: 288.66m 6 N POWER
)															
												CLIENT P PROJECT		GR. DEPARTN	MENT MGR.
FOR		REF	NUMBER		TITLE	E		STAMP/SEAL PROPRIETARY THIS DRAWING AND IS NOT T WITHOUT THE	INFORMATION: IS THE PROPI O BE LOANED	ERTY OF CHIMAX I OR REPRODUCED F CHIMAX INC.	NC. IN ANY WAY	PROJECT SCALE N.T.	P	CTIVITY NO. ACKAGE CODE	DSN E.KWO DRN M.HUA CHK APP
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				CLIENT PROJEC	T MGR. DEPARTM	IENT MGF	R.
				PROJECT PHAS	E		
				PROJECT NO.	ACTIVITY NO.		BY
						DSN	E.KWO
						DRN	M.HUA
	REF NUMBER	TITLE	PROPRIETARY INFORMATION: THIS DRAWING IS THE PROPERTY OF CHIMAX INC.	SCALE	PACKAGE CODE	СНК	
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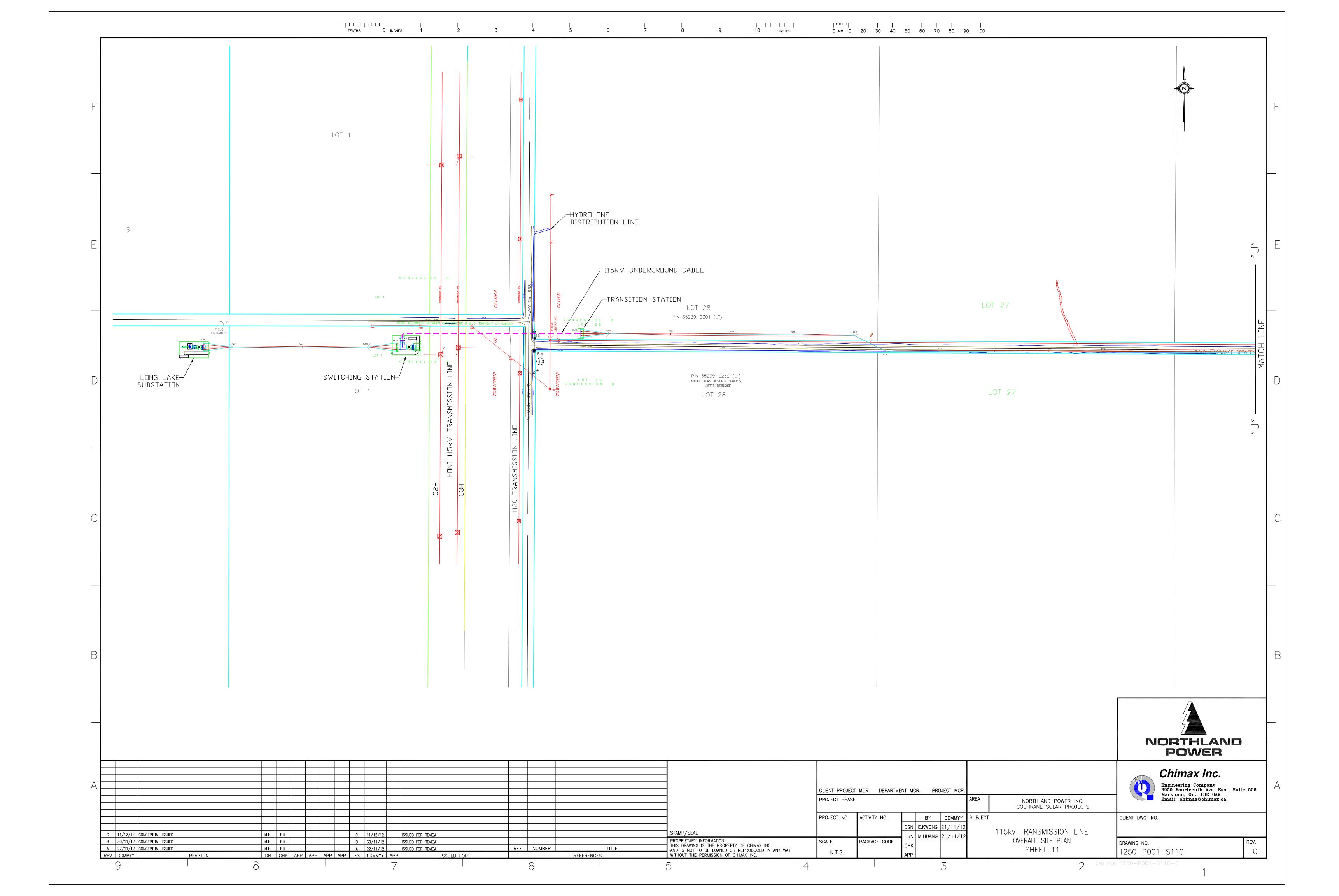
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 3 4	 5 6	7	8	9			омм 10 :	 20 30 40	50	60
		25								
LOT 25 pin 65239-0300 (lt) p in 65239-1306 (lt)		EN LOTS 24 AND 2 PIN 65239-1304 (LT)	0199	P100	LOT	24	11.5 —	265.71	266.55	P194
PIN 65239–0241 (LT) (h.m. dignam corporation ltd) LOT 25		RUAU ALLOWANCE BEIWE Pin 65239-1308 (LT)	PIN 652. (patti- (da	39—0242 (LT) -ann mayer) vid mayer)	LOT	24	PIN 65239–((Hans kl	0243 (LT)	266.43	AND ALLOWAN

					CL	IENT PROJECT	MGR. DEPARTM	ENT MG	R. P
					PF	ROJECT PHASE			
								1	
					PR	ROJECT NO.	ACTIVITY NO.		BY
								DSN	E.KWON
				STAMP/SEAL					M.HUAN
				PROPRIETARY INFORMATION:	SC	ALE	PACKAGE CODE		101.1107411
	REF	NUMBER	TITLE	THIS DRAWING IS THE PROPERTY OF CHIMAX INC. AND IS NOT TO BE LOANED OR REPRODUCED IN ANY WAY				СНК	
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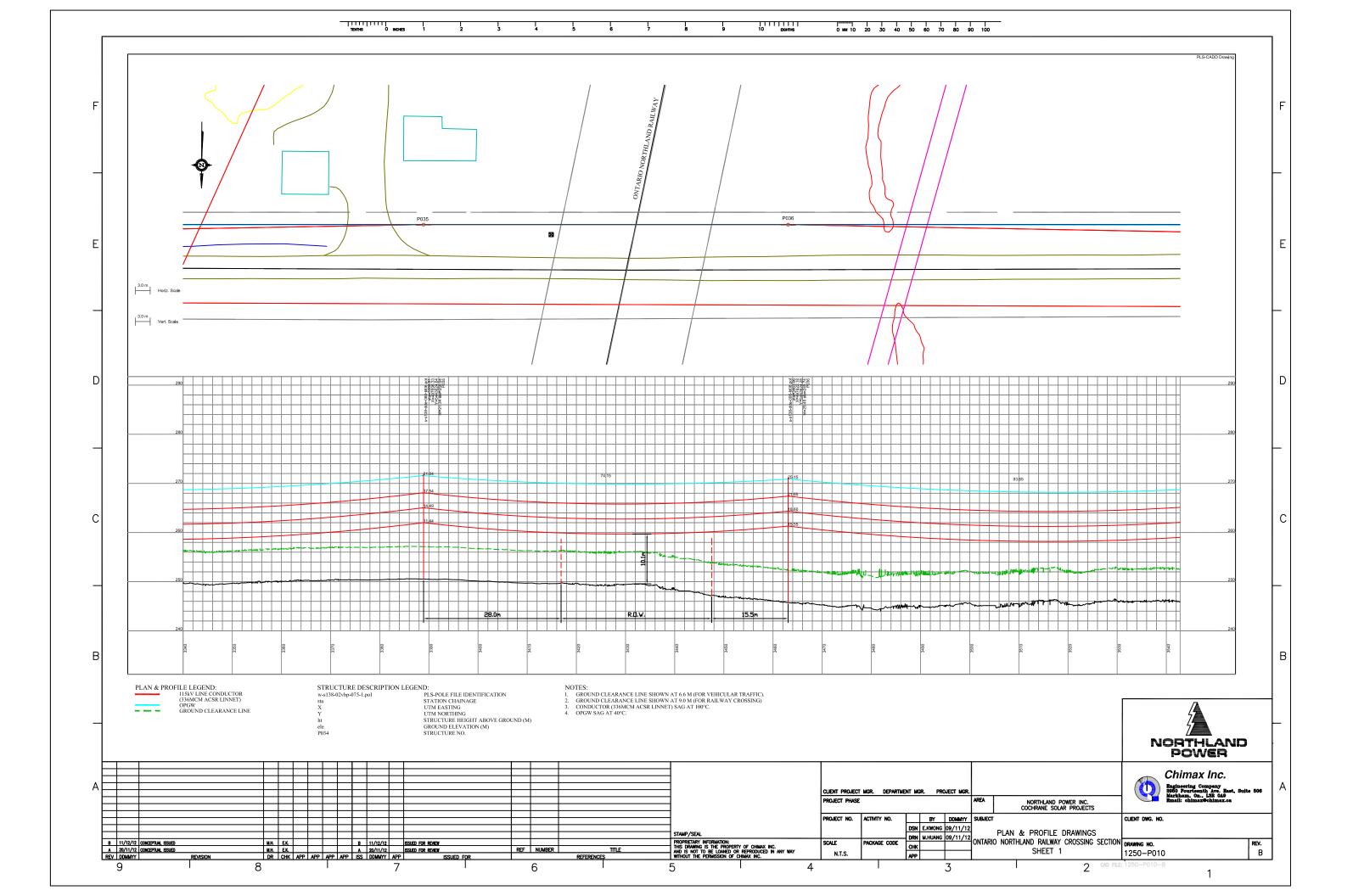
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CONCESSION LOT 28 LOT 23 29 SIB BBC 39 CONCESSION LOT 256.87 ANCE DERVERI CONCESSIONS 1 & 9 CONCESSION 1 & 9 CO	LOWER DECEPTION LAKE LOWER DECEPTION LAKE	D
(I)		C
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PROJECT MGR. AREA NORTHLAND POWER INC. COCHRANE SOLAR PROJECTS (DDMMYY ONG 19/11/12 ANG 19/11	Image: Constraint of the second system of	A

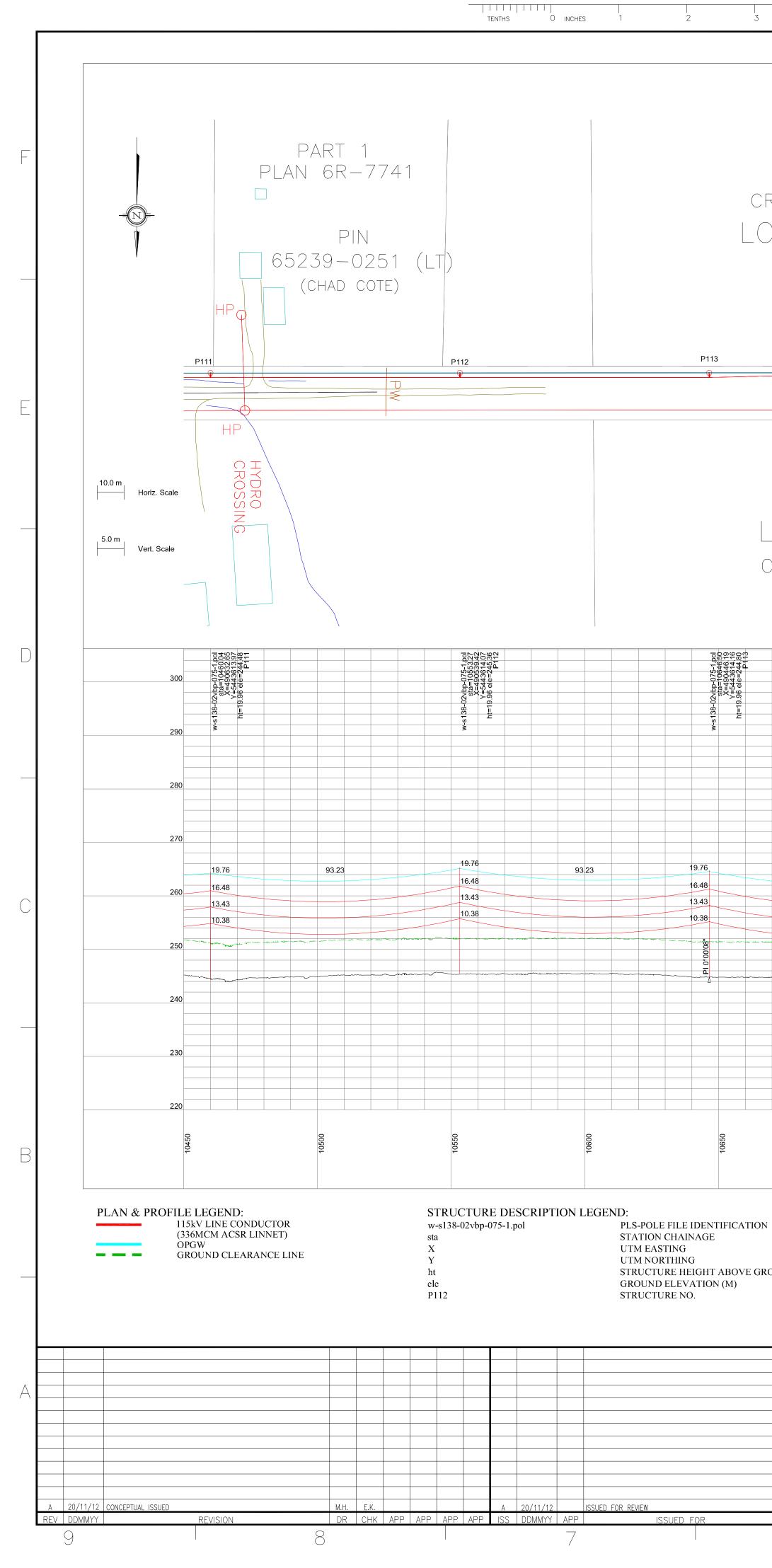


Northland Power Solar Empire L.P., Northland Power Solar Martin's Meadows L.P., Northland Power Solar Abitibi L.P., Northland Power Solar Long Lake L.P. Exhibit D Tab 1 Schedule 3

PROJECT DETAILS

Profile Drawings and Stringing Charts





				CLIENT PROJEC	T MGR. DEPARTM	ENT MGR.
				PROJECT PHAS	Ξ	
				PROJECT NO.	ACTIVITY NO.	BY
			STAMP/SEAL			DSN E.KWO DRN M.HUA
REF NUMBER		TITLE	THIS DRAWING IS THE PROPERTY OF CHIMAX INC.		PACKAGE CODE	СНК
6	REFERENCES		WITHOUT THE PERMISSION OF CHIMAX INC.	4	1	APP
			Image:	REF NUMBER TITLE PROPRIETARY INFORMATION: THIS DRAWING IS THE PROPERTY OF CHIMAX INC. AND IS NOT TO BE LOANED OR REPRODUCED IN ANY WAY	Image: Stamp/SEAL PROJECT PHASE Image: Stamp/SEAL Stamp/SEAL Image: Stamp Project Phase PROJECT PHASE Image: Stamp Phase Project	Image: stamp/seal Stamp/seal Image: stamp/seal Stamp/seal Image: stamp seal PROPRIETARY INFORMATION: THIS DRAWING IS THE PROPERTY OF CHIMAX INC. AND IS NOT TO BE LOANED OR REPRODUCED IN ANY WAY REF NUMBER

1. GROUND CLEARANCE LINE SHOWN AT 6.6 M (FOR VEHICULAR TRAFFIC).

2. GROUND CLEARANCE LINE SHOWN AT 13.0 M (FOR RIVER CROSSING)

3. CONDUCTOR (336MCM ACSR LINNET) SAG AT 100°C.

STRUCTURE HEIGHT ABOVE GROUND (M)

2vbp-075-1 pol sta=10646.50 X=490446.19 Y=5443614.16 96 ele=244.80

CROWN

ΗP CROWN ALLOWANCE pin 65239–1366 (lt)

LOT 9

71.59

LOT 9P114

28.pol 74.60 39.76 33.76 P114

22.41

18.91

15.86

12.81

NOTES:

4. OPGW SAG AT 40°C.

COCHRANE-

|P

W/L=231.74m

208.36

└───┼──┼──┼──┼**─**┟──┼──┼──┼─

10 EIGHTHS

Омм 10 20 30 40 50 60 70 80 90 100

20.12m WIDE Shore road

P115

84246

te-usu-1 sta=10 X=5443 34 ele=

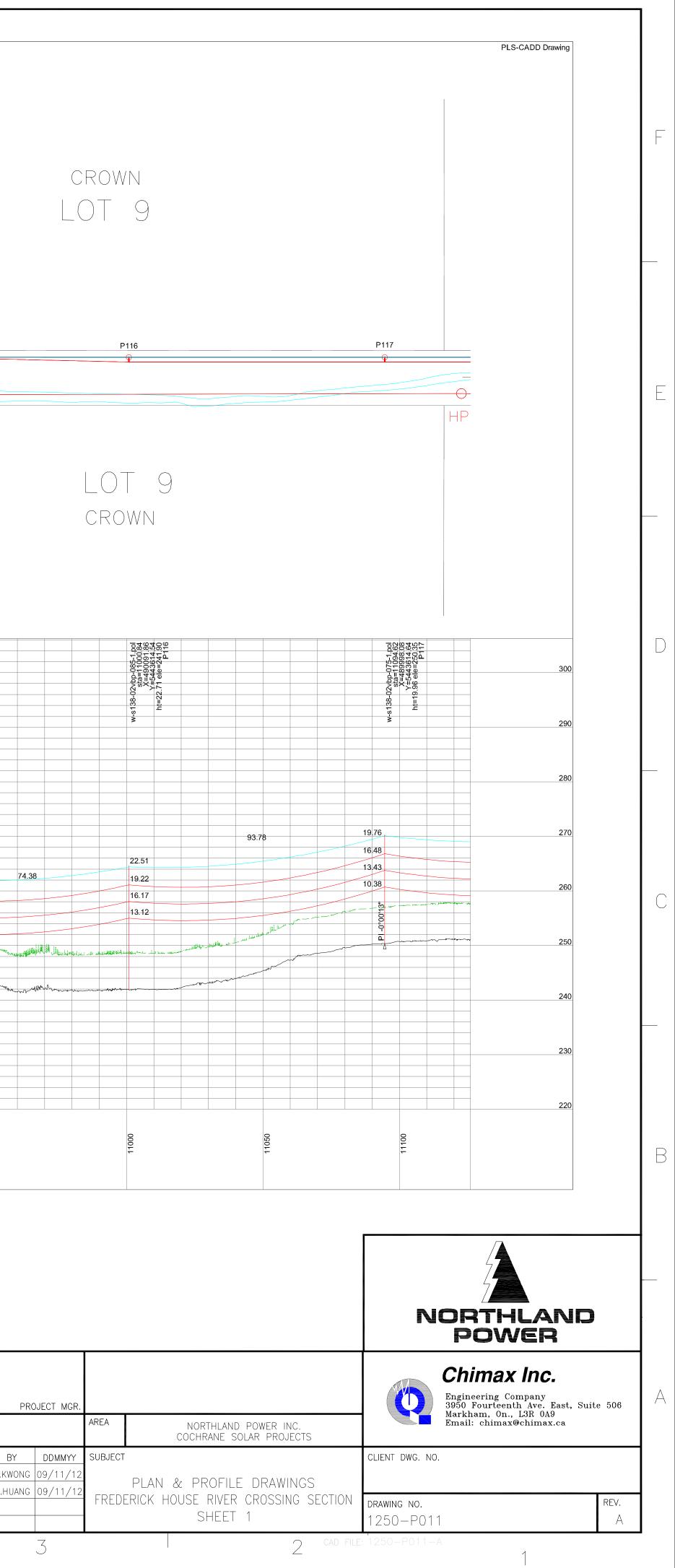
21.04

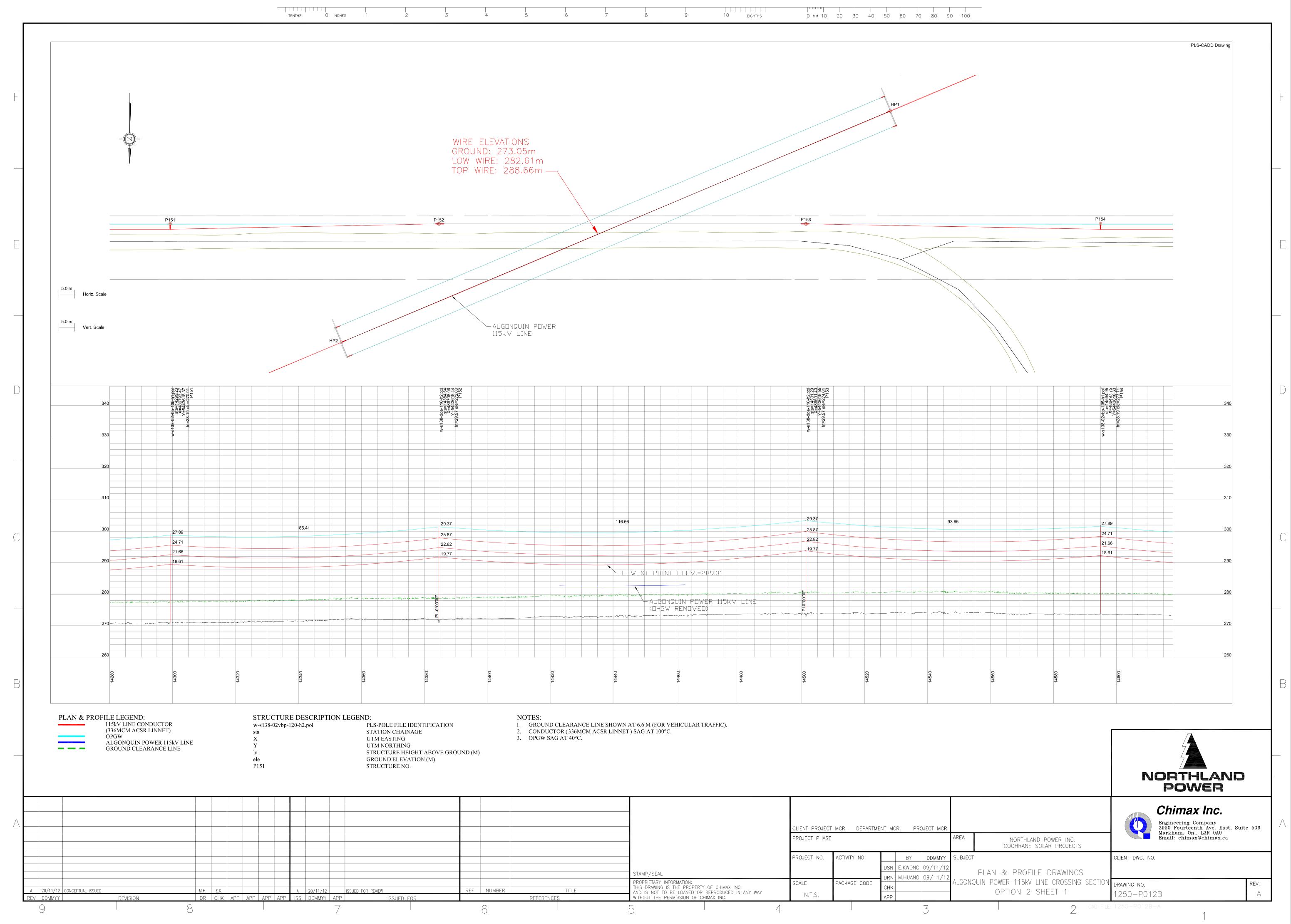
17.54

14.49

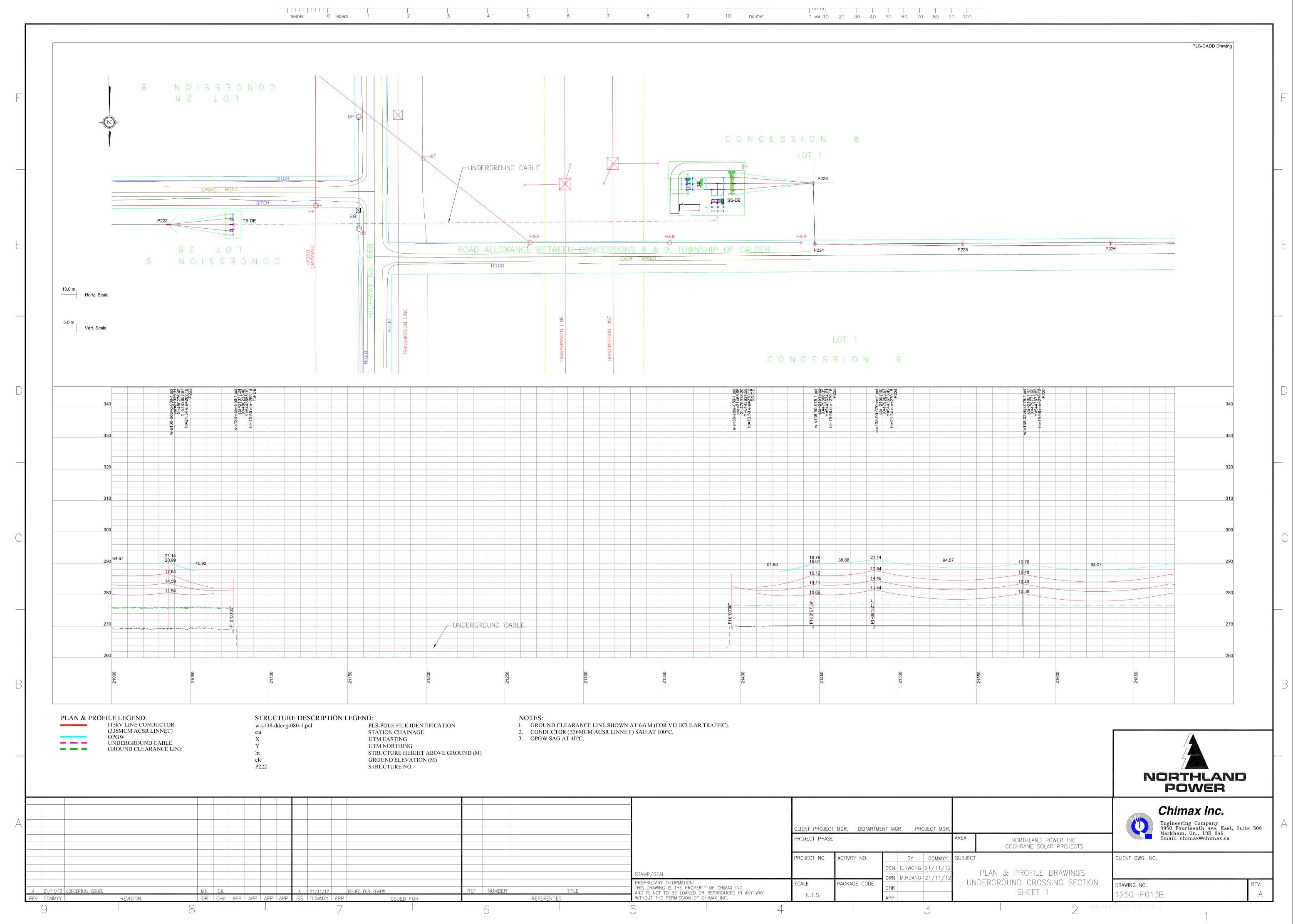
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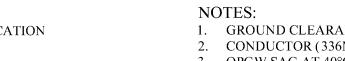


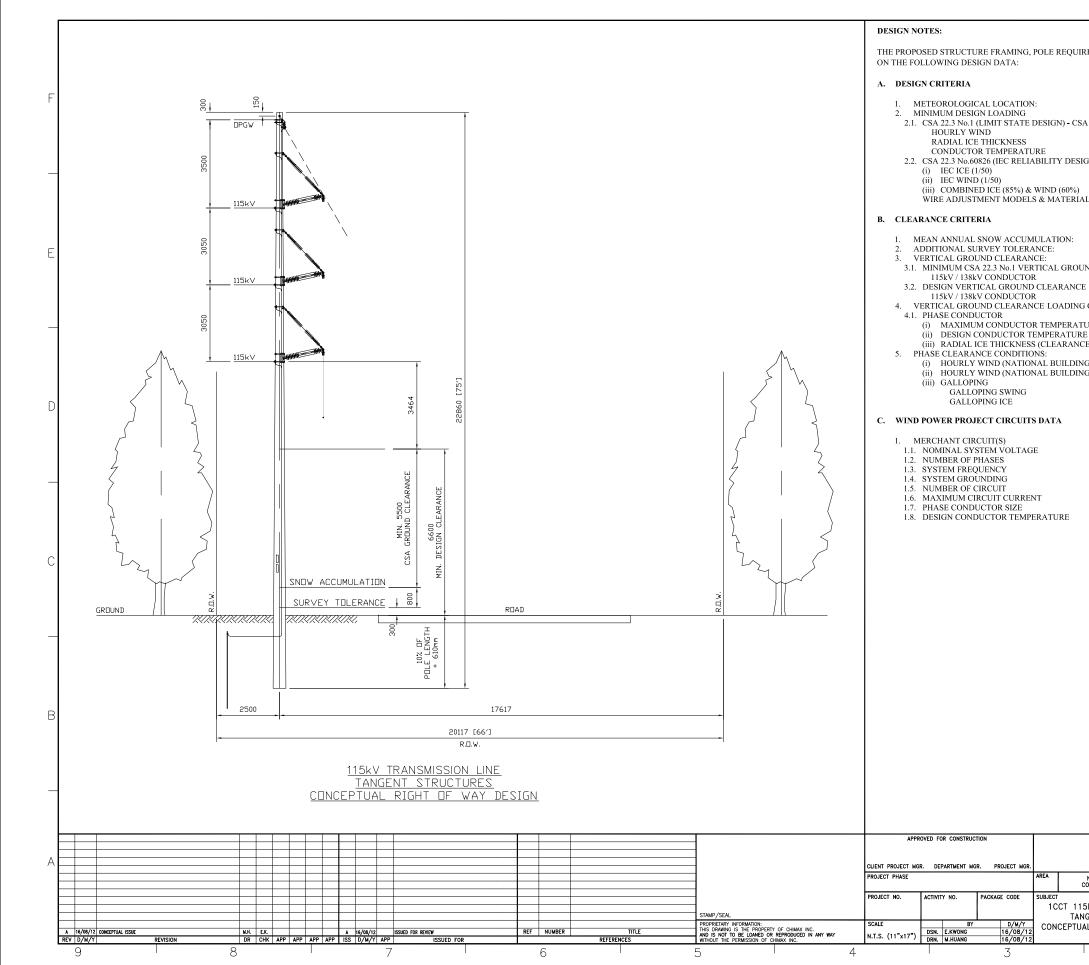


									CLIENT PROJEC	T MGR. DEPARTM	ENT MGR.
									PROJECT PHASE		
									PROJECT NO.	ACTIVITY NO.	BY
											DSN E.KWO
						STAMP/SEAL					DRN M.HUA
						PROPRIETARY INFORMATION:			SCALE	PACKAGE CODE	
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FOR			REFERENCE	S		WITHOUT THE PERMISSION OF	CHIMAX INC.		N.T.S.		APP
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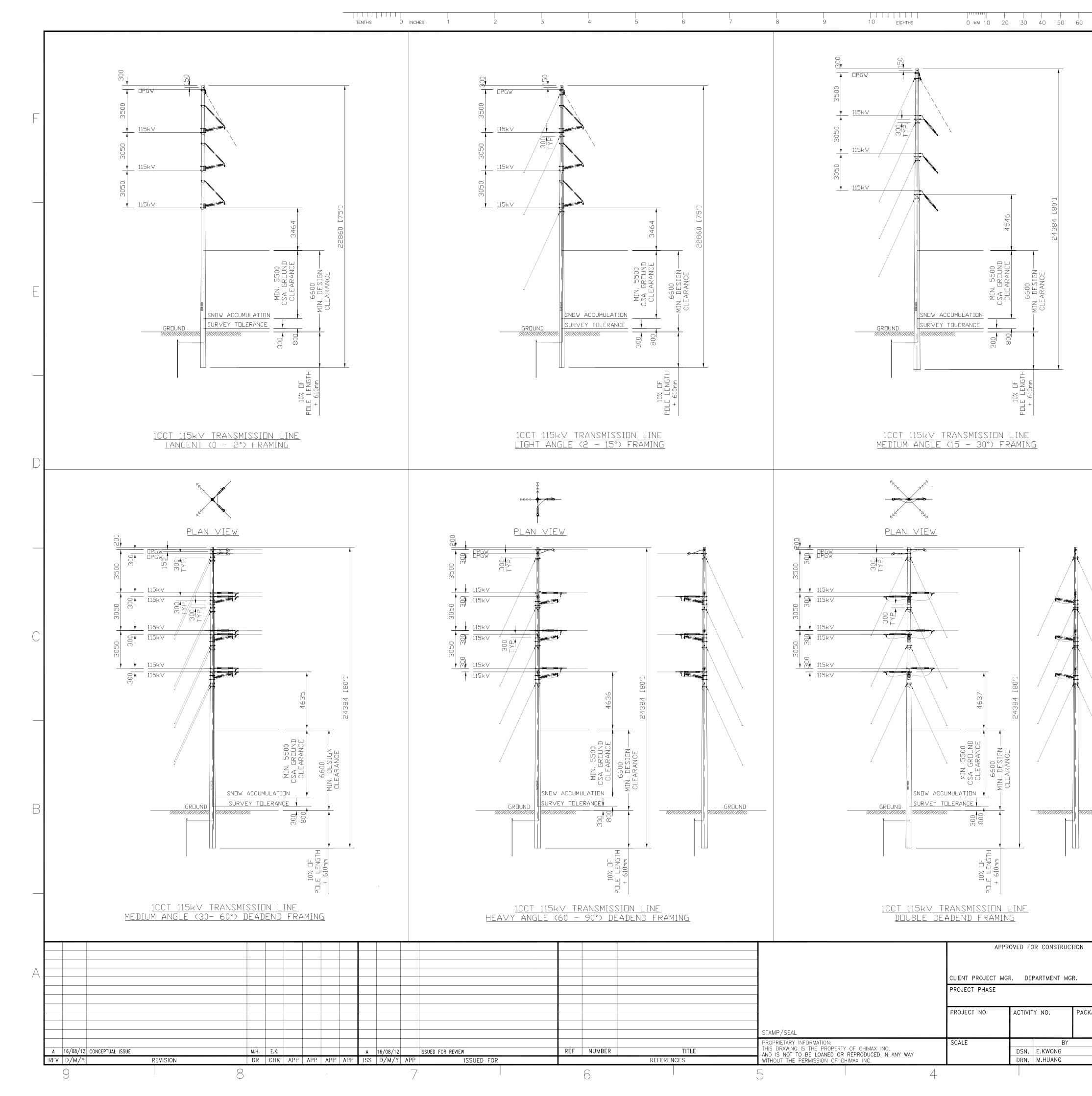


				CLIENT PROJEC	MGR. DEPARTM	ENT MGR.
				PROJECT PHASE		
			-	PROJECT NO.	ACTIVITY NO.	BY
						DSN E.KWC
			STAMP/SEAL			DRN M.HUA
			PROPRIETARY INFORMATION:	SCALE	PACKAGE CODE	
	REF NUMBER	TITLE	THIS DRAWING IS THE PROPERTY OF CHIMAX INC. AND IS NOT TO BE LOANED OR REPRODUCED IN ANY WAY	NTC		СНК
FOR	RE	FERENCES	WITHOUT THE PERMISSION OF CHIMAX INC.	N.T.S.		APP
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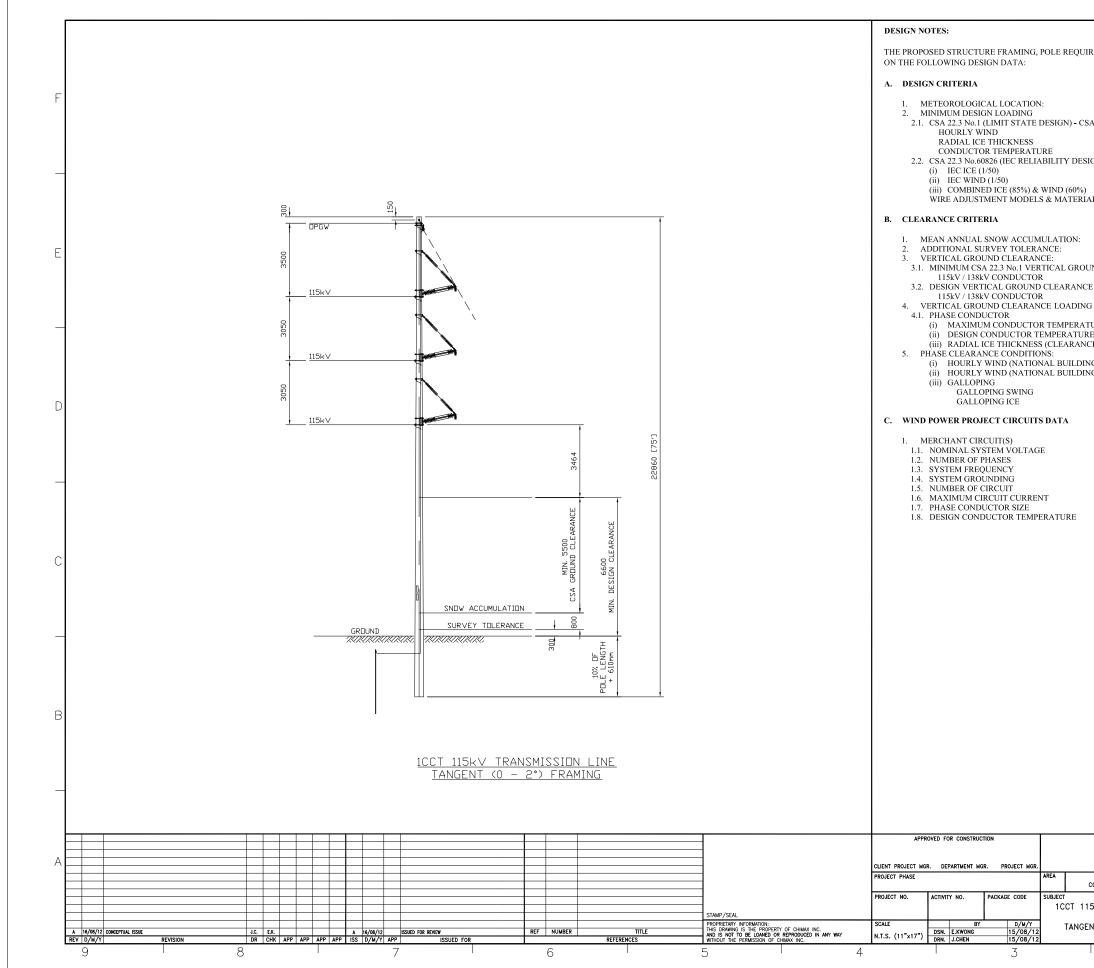




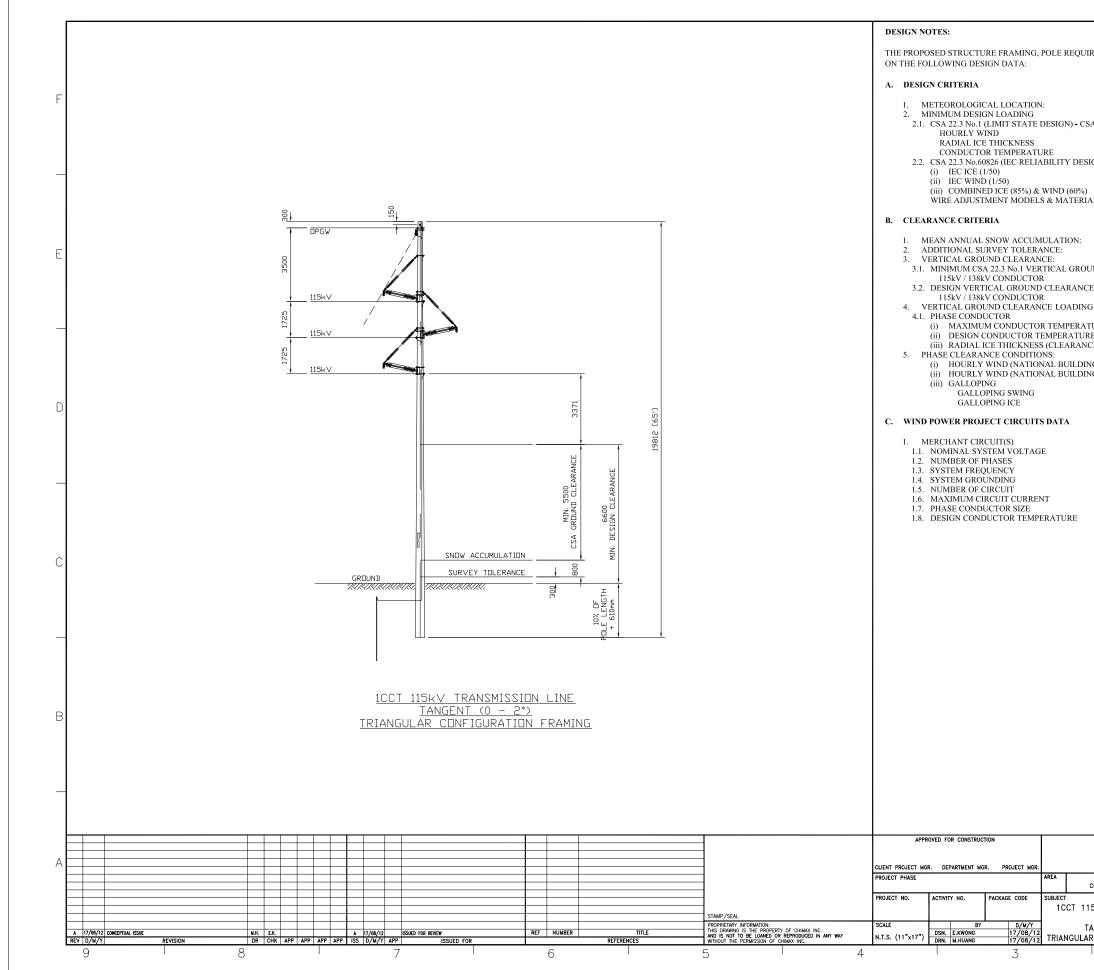
		٦
JIREMENT AND RECOMMEND	ATION STANDARD SPAN ARE BASED	
	COCHRANE	F
SA HEAVY CONDITION	400 Pa 12.7 mm (1/2") -20°C	
SIGN) - 1/50 PERIOD	-20°C 17 mm @ -10°C 80 km/h (302.7 Pa) @ -10°C 14.5 mm & 109 Pa @ -10°C	_
ÍAL FACTORS AS PER CSA 22.:		
	0.8 m 0.3 m	E
DUND CLEARANCE CE	5.50 m	
NG CONDITIONS	6.60 m	
ATURE IRE (AS PER IEEE STD. 738) NCE)	100°C 80°C 12.7 mm (1/2")	
ING CODE 1/50) ING CODE 1/30)	350 Pa (~86 km/hr) 320 Pa (~82 km/hr)	
	290 Pa 12.7 mm (1/2")	D
	124 kV	
	3(THREE) 60 Hz LOW IMPEDANCE 1 (ONE)	
	270A PER CIRCUIT 477 MCM ACSR (HAWK) 80°C	
		С
		_
		В
	NORTHLAND	
	Chimax Inc. Bogineering Company 3850 Fourteenth Ave. East, Suite 506 Markham, On., 13R OA9 Ensil: chimas@chimas.ca	A
NORTHLAND POWER INC. COCHRANE SOLAR PROJECTS	CLIENT DWG. NO.	
15kV TRANSMISSION LINE ANGENT STRUCTURES 'UAL RIGHT OF WAY DESIGN	DRAWING NO. REV.	
2	1250-P003 A CADD FILE ADDRESS 1250-P003-A 1	



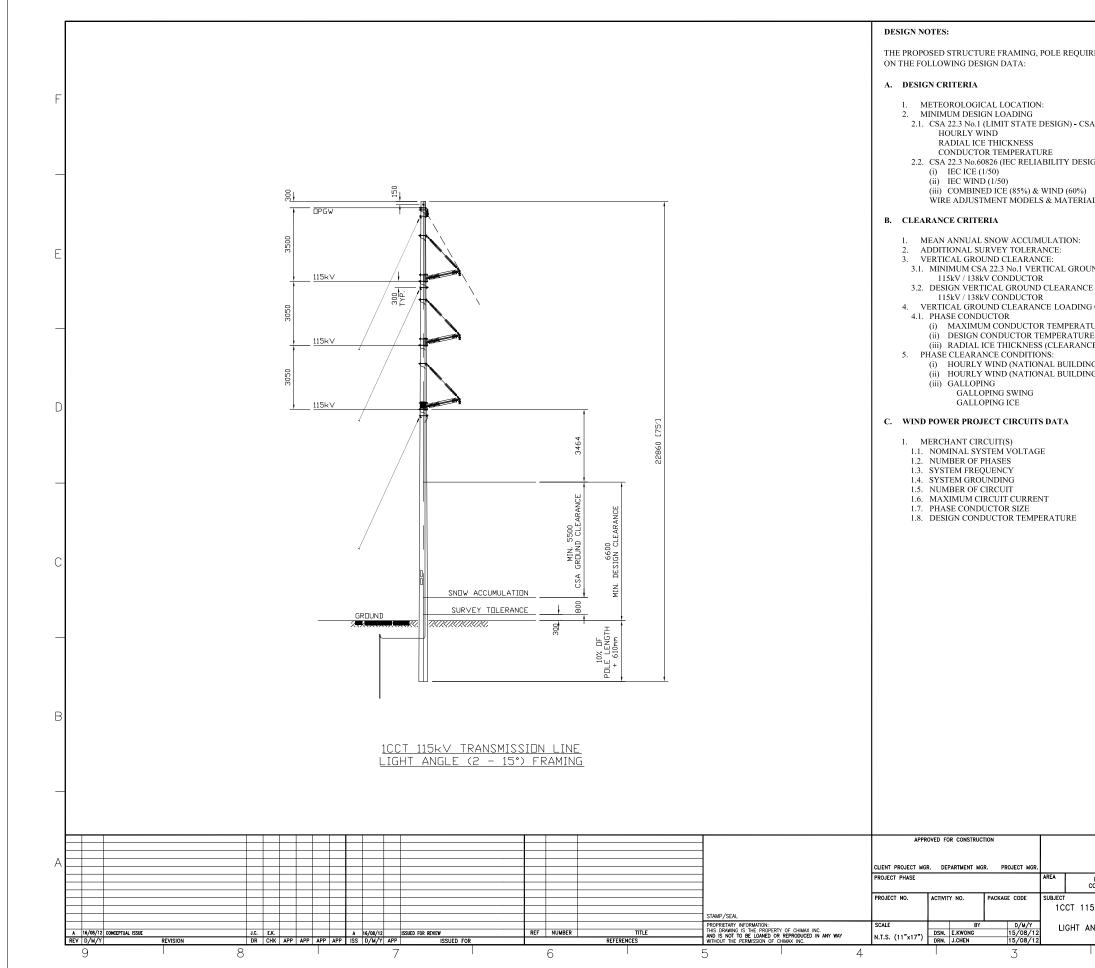
PROJECT MGR. AREA NORTHLAND POWER INC. COCHRANE SOLAR PROJECTS Sign Fourteenth Ave. Bast, Suite 506 Markham, On., L3R 0A9 Email: chimax@chimax.ca KAGE CODE SUBJECT 1 CCT 115kV TRANSMISSION LINE CLIENT DWG. NO. D/M/Y STRUCTURE SUMMARY DRAWING NO. 1250-P021 16/08/12 CADD FILE ADDRESS	70 80 91	D 100		_
• 2 DECENSIVE TRACE GROUND CLARANCE Notation • 1		 THE PROPOSED STRUCTURE FRAMING, POLE REQUIREMENT AND RECOMMENT BASED ON THE FOLLOWING DESIGN DATA: A. DESIGN CRITERIA METEOROLOGICAL LOCATION: MINIMUM DESIGN LOADING CSA 22.3 No.1 (LIMIT STATE DESIGN) - CSA HEAVY CONDITION HOURLY WIND RADIAL ICE THICKNESS CONDUCTOR TEMPERATURE 2.2. CSA 22.3 No.60826 (IEC RELIABILITY DESIGN) - 1/50 PERIOD IEC ICE (1/50) IEC WIND (1/50) ICOMBINED ICE (85%) & WIND (60%) WIRE ADJUSTMENT MODELS & MATERIAL FACTORS AS PER CSA 22 B. CLEARANCE CRITERIA MEAN ANNUAL SNOW ACCUMULATION: ADDITIONAL SURVEY TOLERANCE: VERTICAL GROUND CLEARANCE: MINIMUM CSA 22.3 No.1 VERTICAL GROUND CLEARANCE 	COCHRANE 400 Pa 12.7 mm (1/2") -20°C 17 mm @ -10°C 80 km/h (302.7 Pa) @ -10°C 14.5 mm & 109 Pa @ -10°C 2.3 No. 60826. 0.8 m 0.3 m	F
		 3.2. DESIGN VERTICAL GROUND CLEARANCE 115kV / 138kV CONDUCTOR 4. VERTICAL GROUND CLEARANCE LOADING CONDITIONS 4.1. PHASE CONDUCTOR (i) MAXIMUM CONDUCTOR TEMPERATURE (ii) DESIGN CONDUCTOR TEMPERATURE (AS PER IEEE STD. 738) (iii) RADIAL ICE THICKNESS (CLEARANCE) 5. PHASE CLEARANCE CONDITIONS: (i) HOURLY WIND (NATIONAL BUILDING CODE 1/50) (ii) HOURLY WIND (NATIONAL BUILDING CODE 1/30) (iii) GALLOPING GALLOPING SWING GALLOPING ICE 	6.60 m 100°C 80°C 12.7 mm (1/2") 350 Pa (~86 km/hr) 320 Pa (~82 km/hr) 290 Pa	E
PROJECT MGR. AREA NORTHLAND POWER INC. COCHRANE SOLAR PROJECTS Chimax Inc. Regimeering Company 3850 Fourteenth Are. Last, Suite 506 Bradit: chimax@chimax.ca A AREA NORTHLAND POWER INC. COCHRANE SOLAR PROJECTS CLIENT DWG. NO. A KAGE CODE SUBJECT 1 CCT 115kV TRANSMISSION LINE CLIENT DWG. NO. REV. 1250-P021 A D/M/Y 16/08/12 STRUCTURE SUMMARY DRAWING NO. 1250-P021 REV. A A		 MERCHANT CIRCUIT(S) 1.1. NOMINAL SYSTEM VOLTAGE 1.2. NUMBER OF PHASES 1.3. SYSTEM FREQUENCY 1.4. SYSTEM GROUNDING 1.5. NUMBER OF CIRCUIT 1.6. MAXIMUM CIRCUIT CURRENT 1.7. PHASE CONDUCTOR SIZE 	3 (THREE) 60 Hz LOW IMPEDANCE 1 (ONE) 270A PER CIRCUIT 477 MCM ACSR (HAWK)	
PROJECT MGR. AREA NORTHLAND POWER INC. COCHRANE SOLAR PROJECTS Chimax Inc. Markham, On. COCHRANE SOLAR PROJECTS Chimax Solar Markham, On. COCHRANE SOLAR PROJECTS Client DWG. NO. Rev. A A D/M/Y 16/08/12 STRUCTURE SUMMARY DRAWING NO. 1250-PO21 Rev. A A				
PROJECT MGR. AREA NORTHLAND POWER INC. COCHRANE SOLAR PROJECTS Chimax Inc. Subject Cochrane Solar PROJECTS Chimax Inc. Cochrane Solar PROJECTS AREA NORTHLAND POWER INC. COCHRANE SOLAR PROJECTS Chimax Inc. Subject Cochrane Solar PROJECTS Chimax Inc. Cochrane Solar PROJECTS Chimax Inc. Cochrane Solar PROJECTS Chimax Inc. Subject Cochrane Solar PROJECTS Chimax Inc. Cochrane Solar PROJECT Chimax Inc. Cochrane Solar PROJEC				C
PROJECT MGR. PROJECT MGR. AREA NORTHLAND POWER INC. COCHRANE SOLAR PROJECTS AREA NORTHLAND POWER INC. COCHRANE SOLAR PROJECTS Image: Company Signer Fragment Solar Projects CLIENT DWG. NO. Info/08/12 16/08/12 Image: Company Signer Fragment Solar Projects Client Dwg. NO. Image: Company Signer Fragment Solar Projects Image: Company Signer Fragment Solar Project Sol				В
PROJECT MGR. AREA NORTHLAND POWER INC. COCHRANE SOLAR PROJECTS Engineering Company 3950 Fourteenth Ave. East, Suite 506 Markham, On., L3R 0A9 Email: chimax@chimax.ca KAGE CODE SUBJECT 1 CCT 115kV TRANSMISSION LINE CLIENT DWG. NO. D/M/Y STRUCTURE SUMMARY DRAWING NO. 1250-P021		P	OWER	
D/M/Y STRUCTURE SUMMARY DRAWING NO. REV. 16/08/12 16/08/12 1250-P021 A		AREA NORTHLAND POWER INC. COCHRANE SOLAR PROJECTS	ing Company arteenth Ave. East, Suite 506 , On., L3R 0A9	A
3 / 1250-P021-A	D/M/Y 16/08/12	1CCT 115kV TRANSMISSION LINE STRUCTURE SUMMARY 1250-P021 CADD FILE ADDRESS		



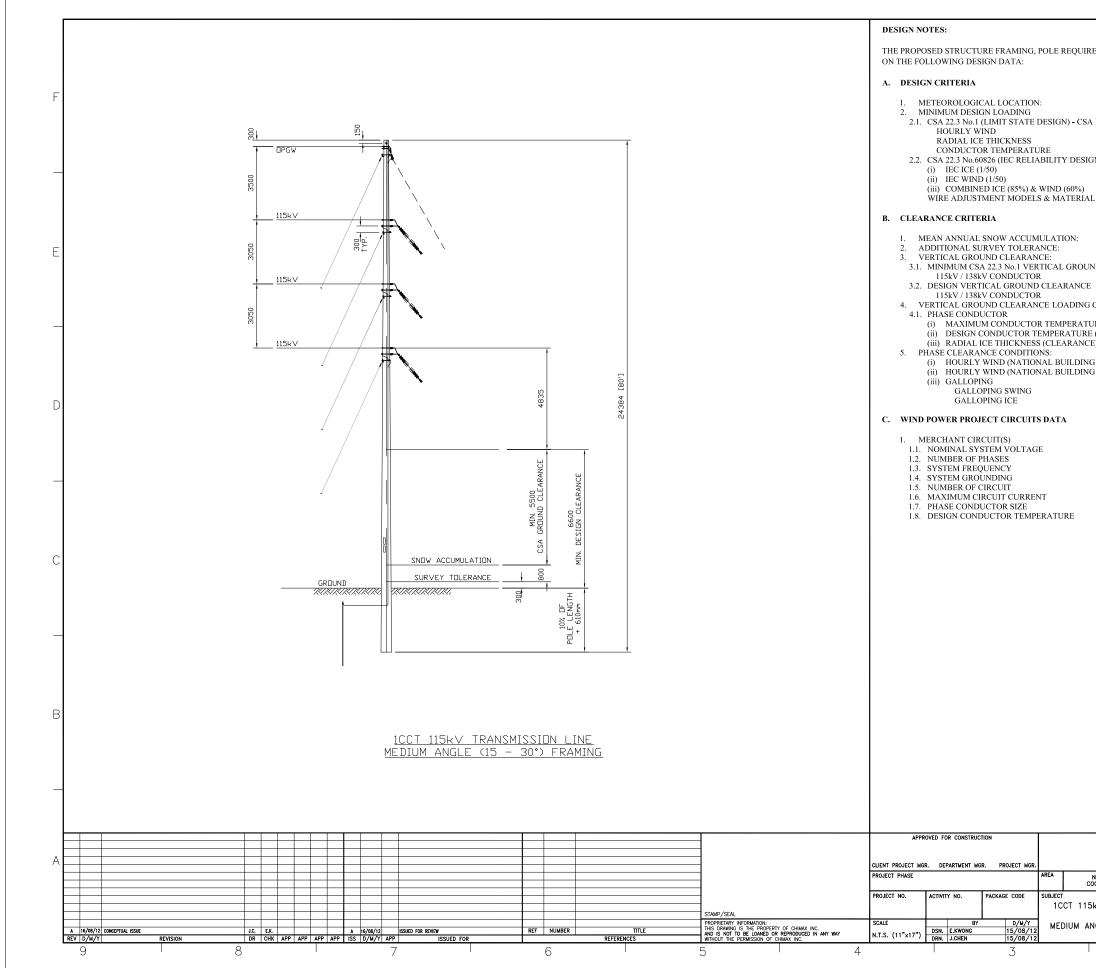
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JIREMENT AND RECOMMEND	ATION STANDARD SPAN ARE BASED	
	COCHRANE	F
SA HEAVY CONDITION	400 Pa 12.7 mm (1/2") -20°C	
SIGN) - 1/50 PERIOD	17 mm @ -10°C 80 km/h (302.7 Pa) @ -10°C 14.5 mm & 109 Pa @ -10°C	
IAL FACTORS AS PER CSA 22.	3 No. 60826.	
	0.8 m 0.3 m	E
OUND CLEARANCE	5.50 m	
CE NG CONDITIONS	6.60 m	
ATURE IRE (AS PER IEEE STD. 738) NCE)	100°C 80°C 12.7 mm (1/2")	_
ING CODE 1/50) ING CODE 1/30)	350 Pa (~86 km/hr) 320 Pa (~82 km/hr)	
	290 Pa 12.7 mm (1/2")	D
	124 kV 3(THREE) 60 Hz	
	LOW IMPEDANCE 1 (ONE) 270A PER CIRCUIT 477 MCM ACSR (HAWK) 80°C	
		С
		_
		В
		-
	NORTHLAND POWER	
NORTHLAND POWER INC.	Chimax Inc. Engineering Company 3950 Pourteenth Ave. East, Suite 506 Markham, On., LSR 040 Email: chimay@chimax.cs	A
NORTHLAND POWER INC. COCHRANE SOLAR PROJECTS	CLIENT DWG. NO.	1
15kV TRANSMISSION LINE SENT (0 – 2°) FRAMING	DRAWING NO.	-
2	1250-P201 A CADD FILE ADDRESS 1250-P201-A 1]



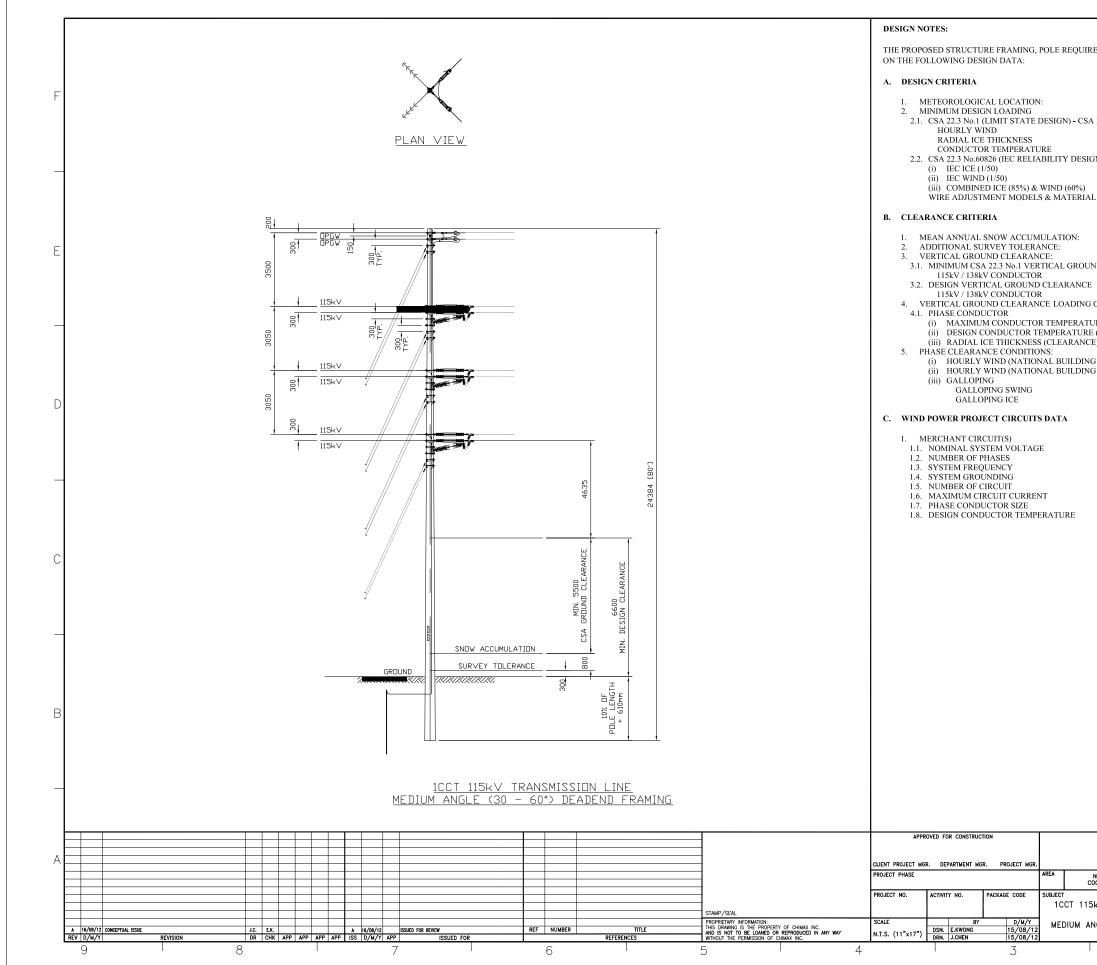
400 Ра 12.7 mm (J (2°) -20°С — SIGN)- 1/50 PERIOD 17 mm (Ø-10°С 80 km/h (302.7 Pa) (Ø-10°С 14.5 mm & 109 Pa (Ø-10°С 15 km/h (Poolers) [[[1
SA HEAVY CONDITION 400 Pa 12.7 mm (1/2") -20°C - SIGN) - 1/30 PERIOD 17 mm (#-10°C 14.5 mm (#-10°C 14.5 mm (#-10°C) - SIGN) - 1/30 PERIOD 14.5 mm (#-10°C 14.5 mm (#-10°C) - DUND CLEARANCE 5.50 m - CE 6.60 m - NG CONDITIONS 100°C R8°C - IVURE 100°C 80°C - IRE (AS PER LEEE STD. 738) 80°C - - NG CODE 1/30) 350 Pa (-86 km/hr) - - 290 Pa 12.7 mm (1/2") - - - ING CODE 1/30) 350 Pa (-86 km/hr) - - - 290 Pa 12.7 mm (1/2") D - - - ING CODE 1/30) 350 Pa (-85 km/hr) - - - - 270 NA (-82 km/hr) 290 Pa - - - - 10 OC (MAREDANCE - - - - - - 10 OC (MAREDANCE - - - - - - - - 10 OC (MAREDANCE	JIREMENT AND RECOMMEND.	ATION STANDARD SPAN ARE BASED	
12.7 mm (1/2") -20°C 17 mm (\$\vec{a}\$ -10°C 80 km/h (302.7 Pa) (\$\vec{a}\$ -10°C 14.5 mm & 109 Pa (\$\vec{a}\$ -10°C 14.5 mm & 109 Pa (\$\vec{a}\$ -10°C 14.5 mm & 109 Pa (\$\vec{a}\$ -10°C -0.5 m 0.3 m 0.3 m DUND CLEARANCE 5.50 m CE 6.60 m VID CLEARANCE 10°C NG CONDITIONS 10°C NIG CODE 1/50) 350 Pa (-86 km/hr) 320 Pa (-82 km/hr) 290 Pa 12.7 mm (1/2") D 10KG CODE 1/50) 350 Pa (-82 km/hr) 290 Pa 12.7 mm (1/2") D 24 kV 3CHIREE) 60 Hz LOW IMPEDANCE 100°C 100°C 270A PER CIRCUIT 477 MCM ACSR (HAWK) 80°C CEMIDA INC. 100°CHRAME SOUR PROJECTS COVENCE CIENT SOURCE 100°C POOLE PROJECTS COVENCE CIENT SOURCES CIENT SOURCES CIENT SOURCES COVENCE		COCHRANE	F
SIGN) - 1/50 PERIOD 17 mm @ -10°C 14 S mm & 100 Pa @ -10°C 15 S0 m 10 S CODE 1/30) 10 Pa (-82 km/hr) 120 Pa (-82 km/hr) 120 Pa (-82 km/hr) 127 mm (12″) 10 MCDEL/S00 10 MC	CSA HEAVY CONDITION	12.7 mm (1/2")	
IAL FACTORS AS PER CSA 22.3 No. 60826. 0.3 m OUND CLEARANCE CE 6.60 m NURE RC CADITIONS NURE RC (AS PER IEEE STD. 738) SOP (-56 km/hr) J20 Pa (-52 km/hr) J20 Pa (-50 km/hr) J20		17 mm @ -10°C 80 km/h (302.7 Pa) @ -10°C	_
0.3 m E OUND CLEARANCE 5.50 m CE 5.60 m NG CONDITIONS 00°C NTURE 100°C IRE (AS PER IEEE STD. 738) 80°C NCE) 12.7 mm (1/2") ING CODE 1/50) 350 Pa (-85 km/hr) 320 Pa -82 km/hr) 290 Pa 12.7 mm (1/2") D 12.7 mm (1/2") C 6 Hz JOW PEDANCE 10 WED JOW PEDANCE 0 IOW PEDANCE 0 <t< td=""><td></td><td></td><td></td></t<>			
DUND CLEARANCE 5.50 m CE 6.60 m NG CONDITIONS 00°C NTURE 100°C NCE 12.7 mm (1/2") ING CODE 1/50) 320 Pa (-56 km/hr) 320 Pa 220 Pa 12.7 mm (1/2") D ING CODE 1/30) 320 Pa (-52 km/hr) 290 Pa 12.7 mm (1/2") D OUV IMPEDANCE 10 OW IMPEDANCE 10 OW IMPEDANCE 10 OW IMPEDANCE 10 ONE 10 ONE 270A PER CIRCUIT 477 MCM ACSR (HAWK) 80°C C NORTHLAND POWER INC. NORTHLAND POWER INC. Emprove Emprove Emposition State St			F
6.60 m NTURE RE (AS PER IEEE STD. 738) 100°C 80°C NGC CODE 1/50) 350 Pa (-86 km/hr) 320 Pa (-82 km/hr) 290 Pa 12.7 mm (1/2") D 124 kV 3(THREE) 60 Hz 12.7 mm (1/2") 124 kV 3(THREE) 60 Hz 100°C 100°C 124 kV 3(THREE) 60 Hz 100°C 127 mm (1/2") D 200 Pa 120 PB CRECUIT 477 MCM ACSR (HAWK) 80°C C 0 C 0 C 0 C 0 C 0 C 0 C 0 C 0 C 0 C 0 C 0 C 0 C		5.50 m	
ING (AS PER IEEE STD. 738) 80°C 12.7 mm (1/2") 350 Pa (-86 km/hr) ING CODE 1/30) 320 Pa (-85 km/hr) 290 Pa 12.7 mm (1/2") ING CODE 1/30) 290 Pa 12.7 mm (1/2") D I24 kV 3(THREE) 60 Hz LOW IMPEDANCE 1 (0NE) 270A PER CIRCUIT 270 A PER CIRCUIT 477 MCM ACSR (HAWK) 80°C S0°C ISK OK ASSR (HAWK) S0°C		6.60 m	
ING CODE 1/30) 320 Pa (-82 km/hr) 290 Pa 12.7 mm (1/2") 12.7 mm (1/2") D 12.7 mm (1/2") D 124 kV 3(THREE) 60 Hz LOW IMPEDANCE 1 (ONE) 270A PER CIRCUIT 2704 PER CIRCUIT 477 MCM ACSR (HAWK) 80°C C Chimax Inc. NORTHLAND POWER INC. D Coordinate for the second	RE (AS PER IEEE STD. 738)	80°C	_
12.7 mm (1/2") D 124 kV 3(THREE) 60 Hz LOW IMPEDANCE 1 (ONE) 270A PER CIRCUIT 477 MCM ACSR (HAWK) 80°C C S0°C NORTHLAND POWER INC. C INORTHLAND POWER INC. C INORTHLAND POWER INC. C INORTHLAND POWER INC. C INORTHLAND POWER INC. C ISKY TRANSMISSION LINE CLENT DWG. NO. TANGENT (0 - 2') RAUMING INC. AR CONFIGURATION FRAMING C INCHINE INC. REV. A ONE DEPENDENCE			
SITHREE) 60 Hz LOW IMPEDANCE 1 (ONE) 270A PER CIRCUIT 477 MCM ACSR (HAWK) 80°C C NORTHLAND POWER INC. COMMARE SOLAR PROJECTS NORTHLAND POWER INC. COMMARE SOLAR PROJECTS ISKV TRANSMISSION LINE TANGENT (0 – 2') AR CONFIGURATION FRAMING COMMARE SOLAR PROJECTS TAGE TOWN, NO. REV. 1250–P201A A COMPRESS A			D
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1 2 IODU FILE AUDICESS 1 1250-P201A-A 1	AR CONFIGURATION FRAMING	1250–P201A A	J
	' 2	1250-P201A-A	



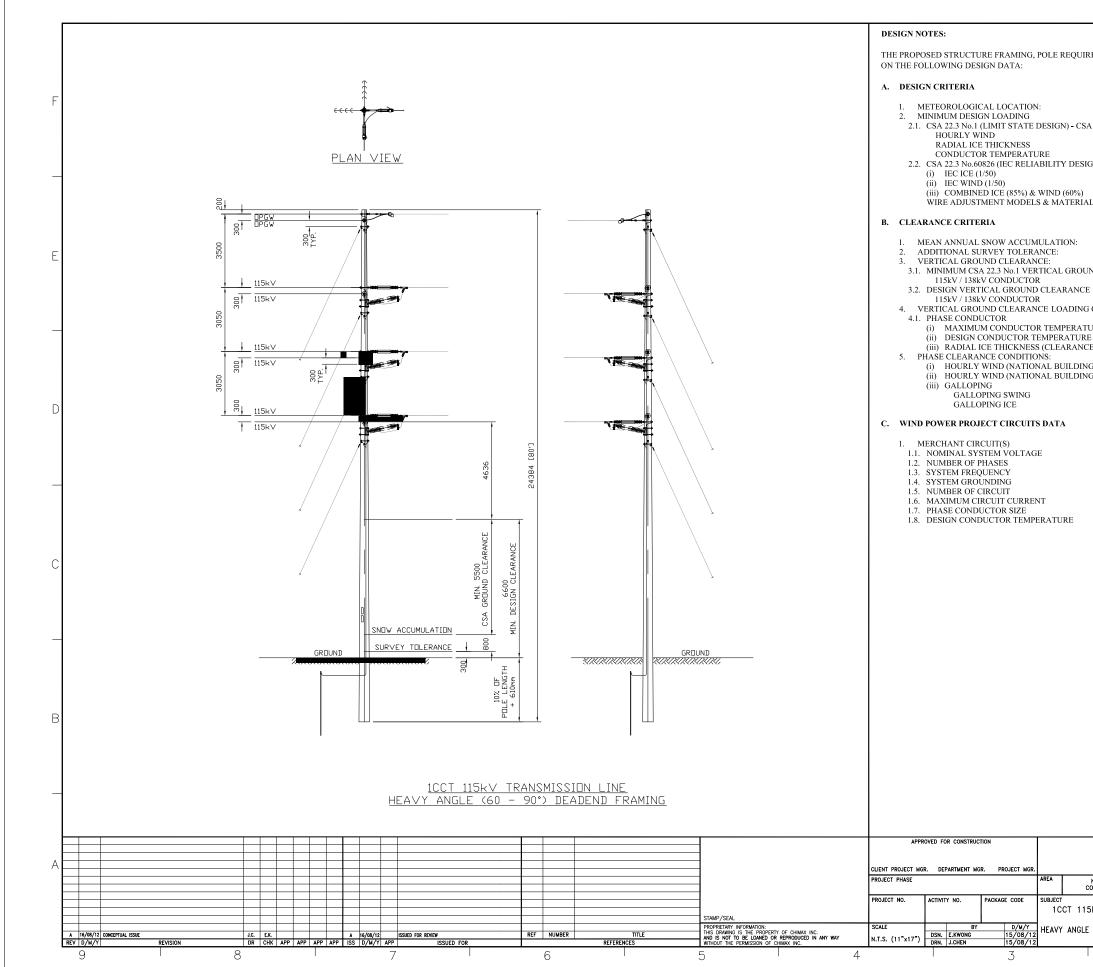
JIREMENT AND RECOMMEND	ATION STANDARD SPAN ARE BASED	
	COCHRANE	F
SA HEAVY CONDITION	400 Pa 12.7 mm (1/2") -20°C	
SIGN) - 1/50 PERIOD	17 mm @ -10°C 80 km/h (302.7 Pa) @ -10°C 14.5 mm & 109 Pa @ -10°C	
IAL FACTORS AS PER CSA 22.	3 No. 60826.	
	0.8 m 0.3 m	E
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	124 kV 3(THREE)	
	60 Hz LOW IMPEDANCE I (ONE) 270A PER CIRCUIT 477 MCM ACSR (HAWK) 80°C	_
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		-
	NORTHLAND POWER	
	Chimax Inc. Bagineering Company 3950 Fourteenth Are. East, Suite 506 Markham, On., LSR 040 Email: chima@chimax.cs	А
NORTHLAND POWER INC. COCHRANE SOLAR PROJECTS	CLIENT DWG. NO.	-
15kV TRANSMISSION LINE	DRAWING NO. REV.	4
ANGLE (2-15°) FRAMING	CADD FILE ADDRESS 1250-P202-A	



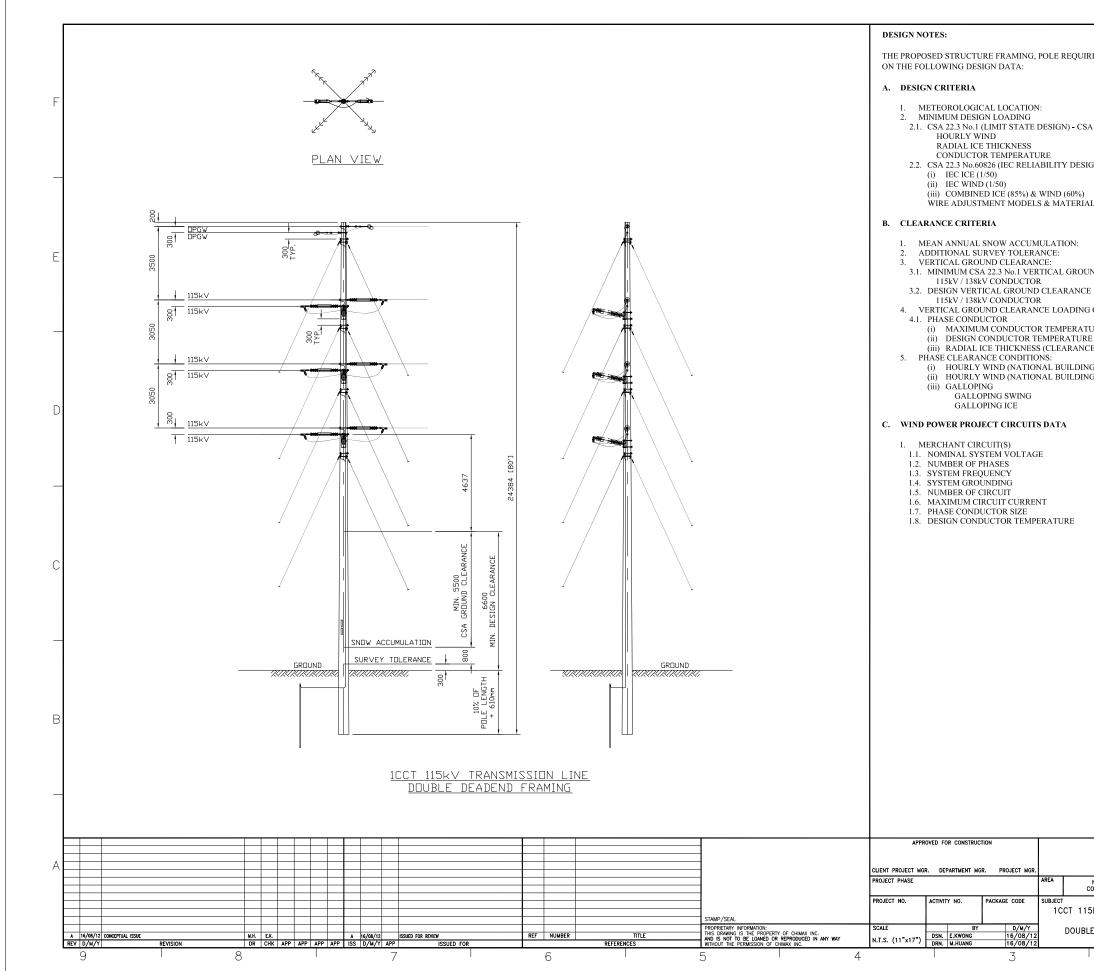
JIREMENT AND RECOMMEND	NATION STANDARD SPAN ARE BASED	
	COCHRANE	F
SA HEAVY CONDITION	400 Pa 12.7 mm (1/2")	
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DUND CLEARANCE CE	5.50 m	
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ING CODE 1/50) ING CODE 1/30)	350 Pa (~86 km/hr) 320 Pa (~82 km/hr)	
	290 Pa 12.7 mm (1/2")	D
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	l (ONE) 270A PER CIRCUIT 477 MCM ACSR (HAWK) 80°C	
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	NORTHLAND POWER	
NORTHLAND POWER INC. COCHRANE SOLAR PROJECTS	Engineering Company Sp300 Pourieenth Ave. East, Suite 506 Markham, On., L3R 0A9 Email: chimax@chimax.ca	
15kV TRANSMISSION LINE		
ANGLE (15-30°) FRAMING	DRAWING NO. 1250-P203 CADD FILE ADDRESS	
2	250-P203-A 1	



JIREMENT AND RECOMMEND	ATION STANDARD SPAN ARE BASED]
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NORTHLAND POWER INC.	Chimax Inc. Bago revine Company Bago Pourteenth Ave. East. Suite 506 Bardie Chimageothemas.ca	А
COCHRANE SOLAR PROJECTS	CLIENT DWG. NO.	1
15kV TRANSMISSION LINE ANGLE (30-60°) FRAMING	DRAWING NO. REV.	-
2	1250-P204 A CADD FILE ADDRESS 1 1250-P204-A 1]
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JIREMENT AND RECOMMEND	ATION STANDARD SPAN ARE BASED	
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	NORTHLAND	
	POWER	4
	Chimax Inc. Engineering Company	A
NORTHLAND POWER INC. COCHRANE SOLAR PROJECTS	Engineering Company 3950 Fourteenth Ave. East, Suite 506 Markham, On., L3R 0,49 Email: chimax@chimax.ca	$\left[\right]$
15kV TRANSMISSION LINE	CLIENT DWG. NO.	1
LISKV TRANSMISSION LINE SLE (60-90°) DEADEND FRAMING	DRAWING NO.	-
. ,	1250–P205 A	l
2	1250-P205-A	



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JIREMENT AND RECOMMEND	ATION STANDARD SPAN ARE BASED	
	COCHRANE	F
SA HEAVY CONDITION	400 Pa 12.7 mm (1/2") -20°C	
SIGN) - 1/50 PERIOD	17 mm @ -10°C 80 km/h (302.7 Pa) @ -10°C 14.5 mm & 109 Pa @ -10°C	_
IAL FACTORS AS PER CSA 22.	3 No. 60826.	
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DUND CLEARANCE CE	5.50 m	
NG CONDITIONS	6.60 m	
ATURE IRE (AS PER IEEE STD. 738) NCE)	100°C 80°C 12.7 mm (1/2")	-
ING CODE 1/50) ING CODE 1/30)	350 Pa (~86 km/hr) 320 Pa (~82 km/hr)	
	290 Pa 12.7 mm (1/2")	D
	124 kV 3 (THREE) 60 Hz	
	LOW IMPEDANCE 1 (ONE) 270A PER CIRCUIT 477 MCM ACSR (HAWK) 80°C	
		С
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		-
	NORTHLAND POWER	1
NORTHLAND POWER INC.	Chimax Inc. Engineering Company 3950 Fourteenth Ave. East, Suite 506 Markham, On., 1378 OA9 Email: chimar@chimar.ca	А
COCHRANE SOLAR PROJECTS	CLIENT DWG. NO.	-
15kV TRANSMISSION LINE BLE DEADEND FRAMING	DRAWING NO. REV.	-
2	1250-P206 A CADD FILE ADDRESS 1250-P206-A 1	

Northland Power Solar Empire L.P., Northland Power Solar Martin's Meadows L.P., Northland Power Solar Abitibi L.P., Northland Power Solar Long Lake L.P. Exhibit D Tab 1 Schedule 4

PROJECT DETAILS

Right of Way Information

The following diagram, Chimax drawing 1250-P003-A, 115 kV Transmission Line Tangent Structures Conceptual Right of Way Design, provides details with regard to the type of pole structure to be used along the RoWs.

