

Schedule B4



Jericho Transmission Pole Clear Zone Mitigation Map



JERICHO TRANSMISSION LINE KEYPLAN
NOT TO SCALE


LEGEND FOR SHEETS CZS-1 TO CZS-7

- RIGHT OF WAY
- EXISTING 3 CABLE GUIDE RAIL
- PROPOSED 3 CABLE GUIDE RAIL
- PROPOSED 3 CABLE GUIDE RAIL END TREATMENT
- EXISTING STEEL BEAM GUIDE RAIL
- PROPOSED STEEL BEAM GUIDE RAIL
- PROPOSED STEEL BEAM GUIDE RAIL END TREATMENT
- PROPOSED GRADING

EXISTING SERVICES	DRAWING #, SOURCE	DATE	AS CONSTRUCTED SERVICES	COMPLETION	DETAILS	No.	REVISIONS	DATE	CONSULTANT	CONSULTANT OR DIVISION	ENGINEER'S STAMP	SCALE 1:1000	TITLE	PROJECT No.
					DESIGN RWC	1	ISSUE FOR LEAVE TO CONSTRUCT	2013-10-07		 IBI Group 203 - 350 Oxford Street West London ON N6H 1T3 Canada tel 519 472 7328 fax 519 472 9354	<div>NEXT ERA ENERGY</div>		JERICHO WIND ENERGY CENTRE MUNICIPALITY OF N. MIDDLESEX AND LAMBTON COUNTY	34938
				DRAWN BY MWB	2	ISSUE FOR LTC AMMENDMENT	2013-11-20		SHEET No.					
				CHECKED RWC					01					
				APPROVED RWC					PLAN FILE No.					
				DATE 2013-08-29										
					JTLsite G&G.dwg									

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EXISTING SERVICES	DRAWING #, SOURCE	DATE	AS CONSTRUCTED SERVICES	COMPLETION	DETAILS	No.	REVISIONS	DATE	CONSULTANT	CONSULTANT OR DIVISION	ENGINEER'S STAMP	SCALE	TITLE	PROJECT No.
					DESIGN RWC	1	ISSUED FOR LEAVE TO CONSTRUCT	2013-10-07		<div>IBI Group 203 - 350 Oxford Street West London ON N6H 1T3 Canada tel 519 472 7328 fax 519 472 9354</div>	<div></div>	<div>1000 1:1000 10 0 20m</div>	JERICO WIND ENERGY CENTRE MUNICIPALITY OF N. MIDDLESEX AND LAMBTON COUNTY	34938
					DRAWN BY MWB	2	ISSUED FOR LTC AMMENDMENT	2013-11-20						SHEET No.
					CHECKED RWC									CZS-1
					APPROVED RWC									PLAN FILE No.
					DATE 2013-08-29									
					JTLsite G&G.dwg									



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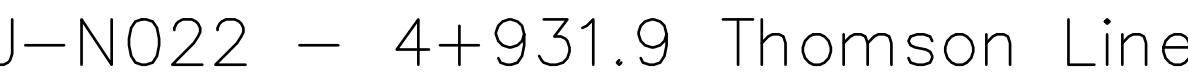
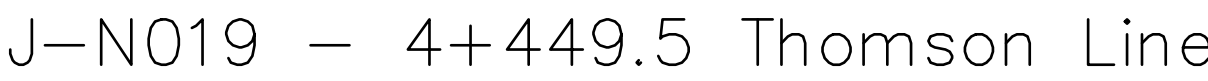
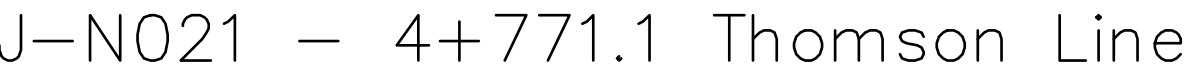
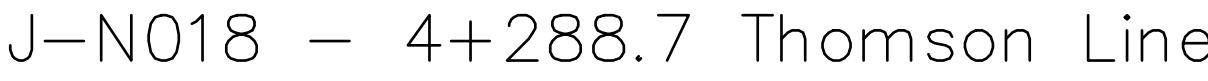
EXISTING SERVICES	DRAWING #, SOURCE	DATE	AS CONSTRUCTED SERVICES	COMPLETION	DETAILS	No.	REVISIONS	DATE	CONSULTANT	CONSULTANT OR DIVISION	ENGINEER'S STAMP	SCALE	TITLE	PROJECT No.
					DESIGN RWC	1	ISSUED FOR LEAVE TO CONSTRUCT	2013-10-07		<div>IBI Group</div> <div>203 - 350 Oxford Street West</div> <div>London ON N6H 1T3 Canada</div> <div>tel 519 472 7328</div> <div>fax 519 472 9354</div>		1:1000	JERICO WIND ENERGY CENTRE MUNICIPALITY OF N. MIDDLESEX AND LAMBTON COUNTY	34938
					DRAWN BY MWB	2	ISSUED FOR LTC AMMENDMENT	2013-11-20						
					CHECKED RWC									
					APPROVED RWC									
					DATE 2013-08-29									
					JTLsite G&G.dwg								JTLSITE G&G - 3 J-N034 TO J-N049	CZS-3
														PLAN FILE No.

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EXISTING SERVICES	DRAWING #, SOURCE	DATE	AS CONSTRUCTED SERVICES	COMPLETION	DETAILS	No.	REVISIONS	DATE	CONSULTANT	CONSULTANT OR DIVISION	ENGINEER'S STAMP	SCALE	TITLE	PROJECT No.	
					DESIGN RWC	1	ISSUE FOR LEAVE TO CONSTRUCT	2013-10-07		<div></div> <div>IBI Group 203 - 350 Oxford Street West London ON N6H 1T3 Canada tel 519 472 7328 fax 519 472 9354</div>	<div></div>	1:1000	JERICO WIND ENERGY CENTRE MUNICIPALITY OF N. MIDDLESEX AND LAMBTON COUNTY	34938	
				DRAWN BY MWB									10 0 20m	JTLSITE G&G - 4	SHEET No.
				CHECKED RWC										J-N050 TO J-N067	CZS-4
				APPROVED RWC											PLAN FILE No.
				DATE 2013-08-29											
					JTlsite G&G.dwg										

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EXISTING SERVICES	DRAWING #, SOURCE	DATE	AS CONSTRUCTED SERVICES	COMPLETION	DETAILS	No.	REVISIONS	DATE	CONSULTANT	CONSULTANT OR DIVISION	ENGINEER'S STAMP	TITLE	PROJECT No.
					DESIGN BDH	1	ISSUED FOR LTC AMMENDMENT	2013-11-20		 <div>IBI Group 203 - 350 Oxford Street West London ON N6H 1T3 Canada tel 519 472 7328 fax 519 472 9354</div>		JERICO WIND ENERGY CENTRE MUNICIPALITY OF N. MIDDLESEX AND LAMBTON COUNTY JTL MITIGATION – P18 TO P22 DITCH CROSS SECTIONS	34938
				DRAWN BY BDH					SHEET No.				
				CHECKED RWC					CS-01				
				APPROVED RWC									PLAN FILE No.
				DATE 2013-11-20									
					CS-01.DWG								

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DETAILS		No.	REVISIONS	DATE
DESIGN	RWC	1	ISSUED FOR REVIEW	2013-11-22
DRAWN BY	MPB			
CHECKED	RWC			
APPROVED	RWC			
DATE	2013-11-22			

CONTRACT OR DIVISION



IBI Group
 203 - 350 Oxford Street West
 London ON N6H 1T3 Canada

tel 519 472 7328
 fax 519 472 9354

ENGINEER'S STAMP	SCALE HORIZ 1:200 <div style="text-align: center; margin-top: 20px;">  </div>
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JERICHO WIND ENERGY CENTRE
 MUNICIPALITY OF N. MIDDLESEX AND LAMBTON COUNTY

MITIGATION MEASURES P37

P-37.DWG	PROJECT No. <div style="font-size: 24px; text-align: center;">34938</div>	SHEET No. <div style="font-size: 24px; text-align: center;">P-37</div>
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Schedule B5

Jericho Transmission Pole Clearance from Edge of Roadway



Jericho Transmission Line
Lambton County

Ontario, Canada

** Pole location in private easement*

Date: 1/21/2014
PROPRIETARY AND CONFIDENTIAL

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Jericho Transmission Line Lambton County		Jericho Transmission Line Lambton County	
Pole Distances -Rev K		Pole Distances -Rev K	
Pole #	Horizontal Distance from E/P to edge of pole	Pole #	Horizontal Distance from E/P to edge of pole
J-N003*	2.60	J-N027*	7.17
J-N004	6.78	J-N028	2.52
J-N005	6.19	J-N029	2.88
J-N006	5.57	J-N030	3.26
J-N007	5.83	J-N031	3.44
J-N008	6.15	J-N032	3.88
J-N009	5.96	J-N033	6.59
J-N010	deleted	J-N034	7.73
J-N011*	11.89	J-N035	6.80
J-N012*	6.73	J-N036	6.17
J-N013*	6.99	J-N037	2.18
J-N014*	7.06	J-N038	7.79
J-N015*	7.24	J-N039	12.73
J-N016*	7.28	J-N040	11.22
J-N017*	7.17	J-N041	11.54
J-N018*	6.91	J-N042	11.27
J-N019*	6.84	J-N043	11.41
J-N020*	6.84	J-N044	11.16
J-N021*	7.07	J-N045	7.64
J-N022*	6.84	J-N046	8.85
J-N023*	6.58	J-N047	5.98
J-N024*	7.54	J-N048	6.04
J-N025*	7.53	J-N049	5.80
J-N026*	7.55	J-N050	3.41

Edge of Road Surface

Edge of Shoulder

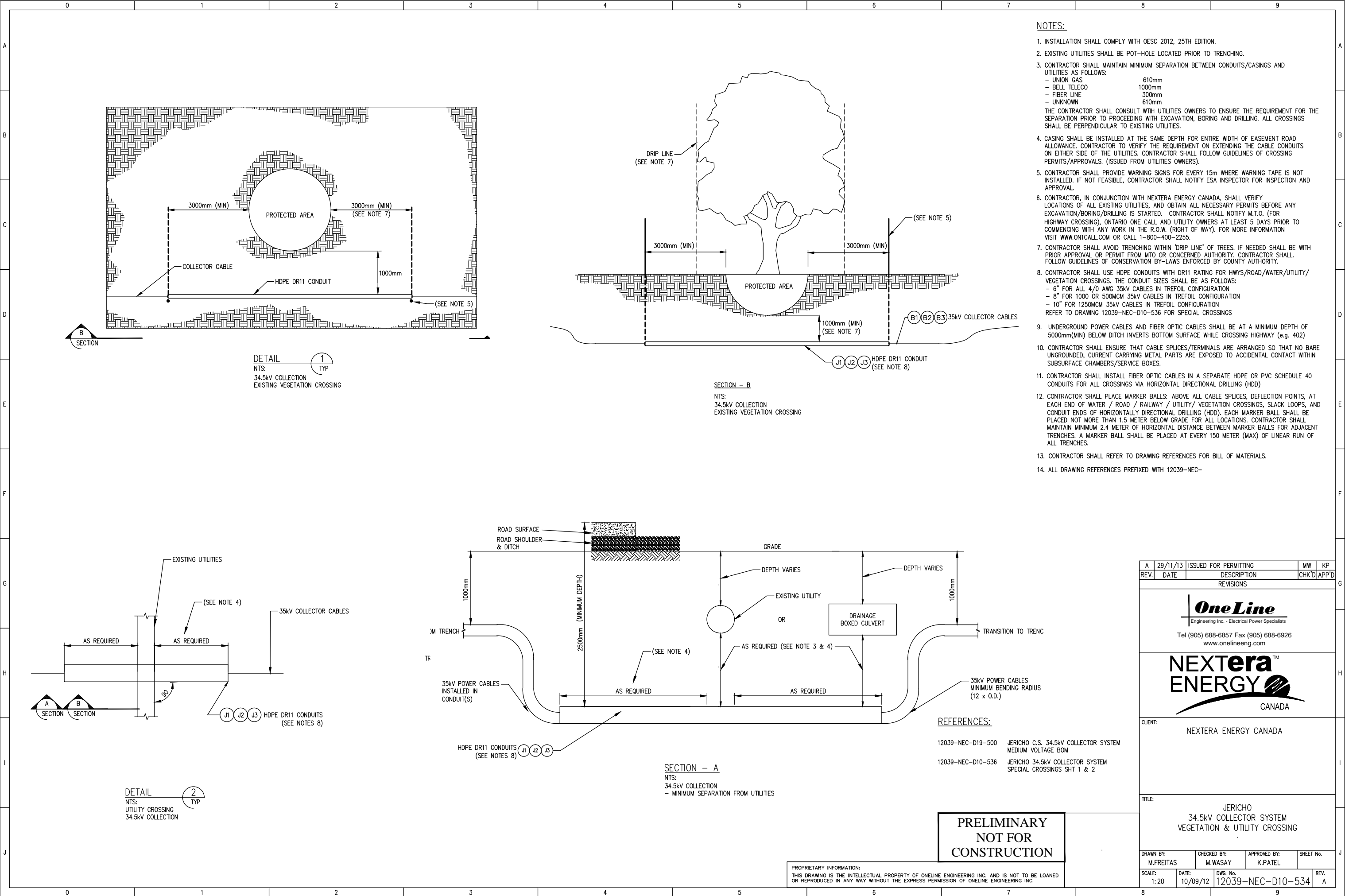
Distance in meters

Closest Face of Pole

Pole #

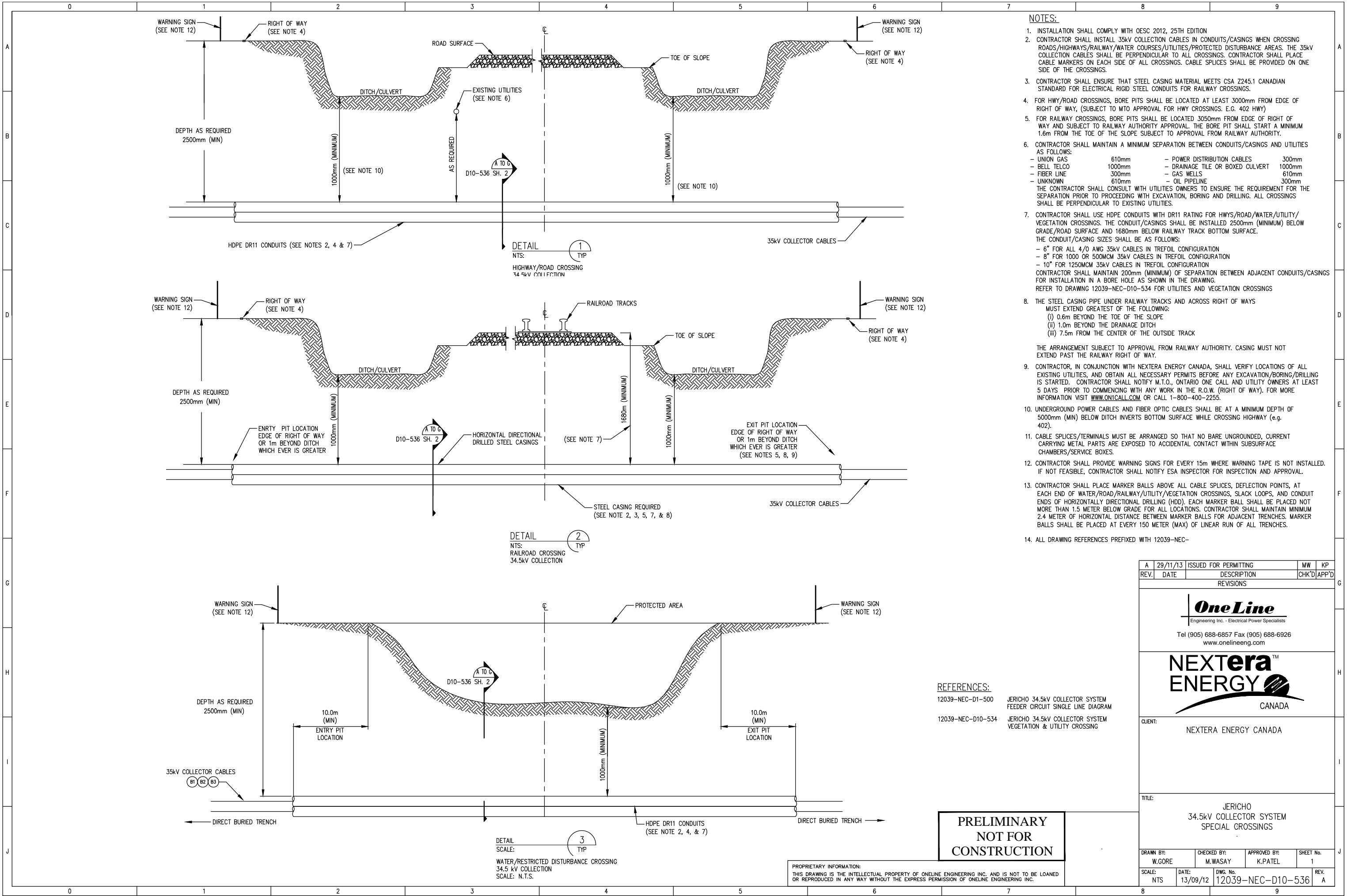
Schedule B6

Jericho Typical Culvert Cross Section



- NOTES:**
1. INSTALLATION SHALL COMPLY WITH OESC 2012, 25TH EDITION.
 2. EXISTING UTILITIES SHALL BE POT-HOLE LOCATED PRIOR TO TRENCHING.
 3. CONTRACTOR SHALL MAINTAIN MINIMUM SEPARATION BETWEEN CONDUITS/CASINGS AND UTILITIES AS FOLLOWS:
 - UNION GAS 610mm
 - BELL TELECO 1000mm
 - FIBER LINE 300mm
 - UNKNOWN 610mmTHE CONTRACTOR SHALL CONSULT WITH UTILITIES OWNERS TO ENSURE THE REQUIREMENT FOR THE SEPARATION PRIOR TO PROCEEDING WITH EXCAVATION, BORING AND DRILLING. ALL CROSSINGS SHALL BE PERPENDICULAR TO EXISTING UTILITIES.
 4. CASING SHALL BE INSTALLED AT THE SAME DEPTH FOR ENTIRE WIDTH OF EASEMENT ROAD ALLOWANCE. CONTRACTOR TO VERIFY THE REQUIREMENT ON EXTENDING THE CABLE CONDUITS ON EITHER SIDE OF THE UTILITIES. CONTRACTOR SHALL FOLLOW GUIDELINES OF CROSSING PERMITS/APPROVALS. (ISSUED FROM UTILITIES OWNERS).
 5. CONTRACTOR SHALL PROVIDE WARNING SIGNS FOR EVERY 15m WHERE WARNING TAPE IS NOT INSTALLED. IF NOT FEASIBLE, CONTRACTOR SHALL NOTIFY ESA INSPECTOR FOR INSPECTION AND APPROVAL.
 6. CONTRACTOR, IN CONJUNCTION WITH NEXTERA ENERGY CANADA, SHALL VERIFY LOCATIONS OF ALL EXISTING UTILITIES, AND OBTAIN ALL NECESSARY PERMITS BEFORE ANY EXCAVATION/BORING/DRILLING IS STARTED. CONTRACTOR SHALL NOTIFY M.T.O. (FOR HIGHWAY CROSSING), ONTARIO ONE CALL AND UTILITY OWNERS AT LEAST 5 DAYS PRIOR TO COMMENCING WITH ANY WORK IN THE R.O.W. (RIGHT OF WAY). FOR MORE INFORMATION VISIT WWW.ON1CALL.COM OR CALL 1-800-400-2255.
 7. CONTRACTOR SHALL AVOID TRENCHING WITHIN 'DRIP LINE' OF TREES. IF NEEDED SHALL BE WITH PRIOR APPROVAL OR PERMIT FROM MTO OR CONCERNED AUTHORITY. CONTRACTOR SHALL FOLLOW GUIDELINES OF CONSERVATION BY-LAWS ENFORCED BY COUNTY AUTHORITY.
 8. CONTRACTOR SHALL USE HDPE CONDUITS WITH DR11 RATING FOR HWYS/ROAD/WATER/UTILITY/VEGETATION CROSSINGS. THE CONDUIT SIZES SHALL BE AS FOLLOWS:
 - 6" FOR ALL 4/0 AWG 35kV CABLES IN TREFOIL CONFIGURATION
 - 8" FOR 1000 OR 500MCM 35kV CABLES IN TREFOIL CONFIGURATION
 - 10" FOR 1250MCM 35kV CABLES IN TREFOIL CONFIGURATIONREFER TO DRAWING 12039-NEC-D10-536 FOR SPECIAL CROSSINGS
 9. UNDERGROUND POWER CABLES AND FIBER OPTIC CABLES SHALL BE AT A MINIMUM DEPTH OF 5000mm(MIN) BELOW DITCH INVERTS BOTTOM SURFACE WHILE CROSSING HIGHWAY (e.g. 402)
 10. CONTRACTOR SHALL ENSURE THAT CABLE SPLICES/TERMINALS ARE ARRANGED SO THAT NO BARE UNGROUNDED, CURRENT CARRYING METAL PARTS ARE EXPOSED TO ACCIDENTAL CONTACT WITHIN SUBSURFACE CHAMBERS/SERVICE BOXES.
 11. CONTRACTOR SHALL INSTALL FIBER OPTIC CABLES IN A SEPARATE HDPE OR PVC SCHEDULE 40 CONDUITS FOR ALL CROSSINGS VIA HORIZONTAL DIRECTIONAL DRILLING (HDD)
 12. CONTRACTOR SHALL PLACE MARKER BALLS: ABOVE ALL CABLE SPLICES, DEFLECTION POINTS, AT EACH END OF WATER / ROAD / RAILWAY / UTILITY/ VEGETATION CROSSINGS, SLACK LOOPS, AND CONDUIT ENDS OF HORIZONTALLY DIRECTIONAL DRILLING (HDD). EACH MARKER BALL SHALL BE PLACED NOT MORE THAN 1.5 METER BELOW GRADE FOR ALL LOCATIONS. CONTRACTOR SHALL MAINTAIN MINIMUM 2.4 METER OF HORIZONTAL DISTANCE BETWEEN MARKER BALLS FOR ADJACENT TRENCHES. A MARKER BALL SHALL BE PLACED AT EVERY 150 METER (MAX) OF LINEAR RUN OF ALL TRENCHES.
 13. CONTRACTOR SHALL REFER TO DRAWING REFERENCES FOR BILL OF MATERIALS.
 14. ALL DRAWING REFERENCES PREFIXED WITH 12039-NEC-

A	29/11/13	ISSUED FOR PERMITTING	MW	KP
REV.	DATE	DESCRIPTION	CHK'D	APP'D
REVISIONS				
<div><div><div>OneLine</div><div>Engineering Inc. - Electrical Power Specialists</div><div>Tel (905) 688-6857 Fax (905) 688-6926</div><div>www.onelineeng.com</div></div><div><div>NEXTERA</div><div>ENERGY</div><div>CANADA</div></div></div>				
CLIENT: NEXTERA ENERGY CANADA				
TITLE: JERICO 34.5kV COLLECTOR SYSTEM VEGETATION & UTILITY CROSSING				
DRAWN BY: M.FREITAS		CHECKED BY: M.WASAY		APPROVED BY: K.PATEL
SCALE: 1:20	DATE: 10/09/12	DWG. No. 12039-NEC-D10-534	REV. A	



- NOTES:**
- INSTALLATION SHALL COMPLY WITH OESC 2012, 25TH EDITION
 - CONTRACTOR SHALL INSTALL 35kV COLLECTION CABLES IN CONDUITS/CASINGS WHEN CROSSING ROADS/HIGHWAYS/RAILWAY/WATER COURSES/UTILITIES/PROTECTED DISTURBANCE AREAS. THE 35kV COLLECTION CABLES SHALL BE PERPENDICULAR TO ALL CROSSINGS. CONTRACTOR SHALL PLACE CABLE MARKERS ON EACH SIDE OF ALL CROSSINGS. CABLE SPLICES SHALL BE PROVIDED ON ONE SIDE OF THE CROSSINGS.
 - CONTRACTOR SHALL ENSURE THAT STEEL CASING MATERIAL MEETS CSA Z245.1 CANADIAN STANDARD FOR ELECTRICAL RIGID STEEL CONDUITS FOR RAILWAY CROSSINGS.
 - FOR HWY/ROAD CROSSINGS, BORE PITS SHALL BE LOCATED AT LEAST 3000mm FROM EDGE OF RIGHT OF WAY, (SUBJECT TO MTO APPROVAL FOR HWY CROSSINGS. E.G. 402 HWY)
 - FOR RAILWAY CROSSINGS, BORE PITS SHALL BE LOCATED 3050mm FROM EDGE OF RIGHT OF WAY AND SUBJECT TO RAILWAY AUTHORITY APPROVAL. THE BORE PIT SHALL START A MINIMUM 1.6m FROM THE TOE OF THE SLOPE SUBJECT TO APPROVAL FROM RAILWAY AUTHORITY.
 - CONTRACTOR SHALL MAINTAIN A MINIMUM SEPARATION BETWEEN CONDUITS/CASINGS AND UTILITIES AS FOLLOWS:

- UNION GAS	610mm	- POWER DISTRIBUTION CABLES	300mm
- BELL TELCO	1000mm	- DRAINAGE TILE OR BOXED CULVERT	1000mm
- FIBER LINE	300mm	- GAS WELLS	610mm
- UNKNOWN	610mm	- OIL PIPELINE	300mm

THE CONTRACTOR SHALL CONSULT WITH UTILITIES OWNERS TO ENSURE THE REQUIREMENT FOR THE SEPARATION PRIOR TO PROCEEDING WITH EXCAVATION, BORING AND DRILLING. ALL CROSSINGS SHALL BE PERPENDICULAR TO EXISTING UTILITIES.
 - CONTRACTOR SHALL USE HDPE CONDUITS WITH DR11 RATING FOR HWYS/ROAD/WATER/UTILITY/VEGETATION CROSSINGS. THE CONDUIT/CASINGS SHALL BE INSTALLED 2500mm (MINIMUM) BELOW GRADE/ROAD SURFACE AND 1680mm BELOW RAILWAY TRACK BOTTOM SURFACE. THE CONDUIT/CASING SIZES SHALL BE AS FOLLOWS:

- 6" FOR ALL 4/0 AWG 35kV CABLES IN TREFOIL CONFIGURATION
- 8" FOR 1000 OR 500MCM 35kV CABLES IN TREFOIL CONFIGURATION
- 10" FOR 1250MCM 35kV CABLES IN TREFOIL CONFIGURATION

CONTRACTOR SHALL MAINTAIN 200mm (MINIMUM) OF SEPARATION BETWEEN ADJACENT CONDUITS/CASINGS FOR INSTALLATION IN A BORE HOLE AS SHOWN IN THE DRAWING. REFER TO DRAWING 12039-NEC-D10-534 FOR UTILITIES AND VEGETATION CROSSINGS
 - THE STEEL CASING PIPE UNDER RAILWAY TRACKS AND ACROSS RIGHT OF WAYS MUST EXTEND GREATEST OF THE FOLLOWING:

(i) 0.6m BEYOND THE TOE OF THE SLOPE
(ii) 1.0m BEYOND THE DRAINAGE DITCH
(iii) 7.5m FROM THE CENTER OF THE OUTSIDE TRACK

THE ARRANGEMENT SUBJECT TO APPROVAL FROM RAILWAY AUTHORITY. CASING MUST NOT EXTEND PAST THE RAILWAY RIGHT OF WAY.
 - CONTRACTOR, IN CONJUNCTION WITH NEXTERA ENERGY CANADA, SHALL VERIFY LOCATIONS OF ALL EXISTING UTILITIES, AND OBTAIN ALL NECESSARY PERMITS BEFORE ANY EXCAVATION/BORING/DRILLING IS STARTED. CONTRACTOR SHALL NOTIFY M.T.O., ONTARIO ONE CALL AND UTILITY OWNERS AT LEAST 5 DAYS PRIOR TO COMMENCING WITH ANY WORK IN THE R.O.W. (RIGHT OF WAY). FOR MORE INFORMATION VISIT WWW.ONICALL.COM OR CALL 1-800-400-2255.
 - UNDERGROUND POWER CABLES AND FIBER OPTIC CABLES SHALL BE AT A MINIMUM DEPTH OF 5000mm (MIN) BELOW DITCH INVERTS BOTTOM SURFACE WHILE CROSSING HIGHWAY (e.g. 402).
 - CABLE SPLICES/TERMINALS MUST BE ARRANGED SO THAT NO BARE UNGROUNDED, CURRENT CARRYING METAL PARTS ARE EXPOSED TO ACCIDENTAL CONTACT WITHIN SUBSURFACE CHAMBERS/SERVICE BOXES.
 - CONTRACTOR SHALL PROVIDE WARNING SIGNS FOR EVERY 15m WHERE WARNING TAPE IS NOT INSTALLED. IF NOT FEASIBLE, CONTRACTOR SHALL NOTIFY ESA INSPECTOR FOR INSPECTION AND APPROVAL.
 - CONTRACTOR SHALL PLACE MARKER BALLS ABOVE ALL CABLE SPLICES, DEFLECTION POINTS, AT EACH END OF WATER/ROAD/RAILWAY/UTILITY/VEGETATION CROSSINGS, SLACK LOOPS, AND CONDUIT ENDS OF HORIZONTALLY DIRECTIONAL DRILLING (HDD). EACH MARKER BALL SHALL BE PLACED NOT MORE THAN 1.5 METER BELOW GRADE FOR ALL LOCATIONS. CONTRACTOR SHALL MAINTAIN MINIMUM 2.4 METER OF HORIZONTAL DISTANCE BETWEEN MARKER BALLS FOR ADJACENT TRENCHES. MARKER BALLS SHALL BE PLACED AT EVERY 150 METER (MAX) OF LINEAR RUN OF ALL TRENCHES.
 - ALL DRAWING REFERENCES PREFIXED WITH 12039-NEC-

- REFERENCES:**
- 12039-NEC-D1-500 JERICO 34.5kV COLLECTOR SYSTEM FEEDER CIRCUIT SINGLE LINE DIAGRAM
- 12039-NEC-D10-534 JERICO 34.5kV COLLECTOR SYSTEM VEGETATION & UTILITY CROSSING

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REV.	DATE	DESCRIPTION	CHK'D	APP'D
REVISIONS				
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CLIENT: NEXTERA ENERGY CANADA				
TITLE: JERICO 34.5kV COLLECTOR SYSTEM SPECIAL CROSSINGS				
DRAWN BY: W.GORE		CHECKED BY: M.WASAY		APPROVED BY: K.PATEL
SCALE: NTS		DATE: 13/09/12		DWG. No. 12039-NEC-D10-536
				SHEET No. 1
				REV. A

Schedule B7a

Jericho Transmission Line Construction Methods

Support Structure Assembly and Erection

Support structure assembly will begin with auger drilling of a cylindrical shaft in the soil of appropriate diameter and depth to provide necessary support to the structure. For direct-embedded poles, the bottom section of the pole will be centered in this drilled shaft and the gap between the pole and the soil will be backfilled with crushed rock. For base-plated tubular steel poles, a steel reinforcing bar “cage” and an anchor bolt “cage” will be placed in the shaft and the shaft will be filled with concrete to create a sturdy concrete foundation for the structure. Once the concrete has cured to an acceptable strength, the remaining structure will be assembled and erected on top of this foundation.

Equipment required for construction will likely include a combination of cranes, trucks, and augers.

Conductor Stringing

Once a series of support structures have been erected along the transmission line, the conductor stringing phase can begin. Specialized equipment will be attached to insulators that will properly support and protect the conductor during the pulling, tensioning, and sagging operations. Once the conductors and shield wire are in place, and tension and sag have been verified, suspension units are installed at each suspension point to maintain conductor position. Conductor stringing will continue until the transmission line construction is complete.

Schedule B7b

Jericho Distribution (Collection) Construction Methods

In general, wind farm collection power cable will be direct-buried in an open-cut trench at a typical depth below grade of 1 meter in accordance with governing codes and standards. A fiber optic cable for wind farm communication and control will normally be co-located with the power cables. Each excavated trench will be backfilled with compacted native and/or imported material to original grade. Typical equipment for this activity consists of trenchers, backhoes, skid-steer loaders, compactors, utility trucks, and cable reel deployment rigs.

At times, it may be necessary to install power and fiber cables using directional drilling. In these instances, the power and fiber cables will be inside a polyethylene casing.

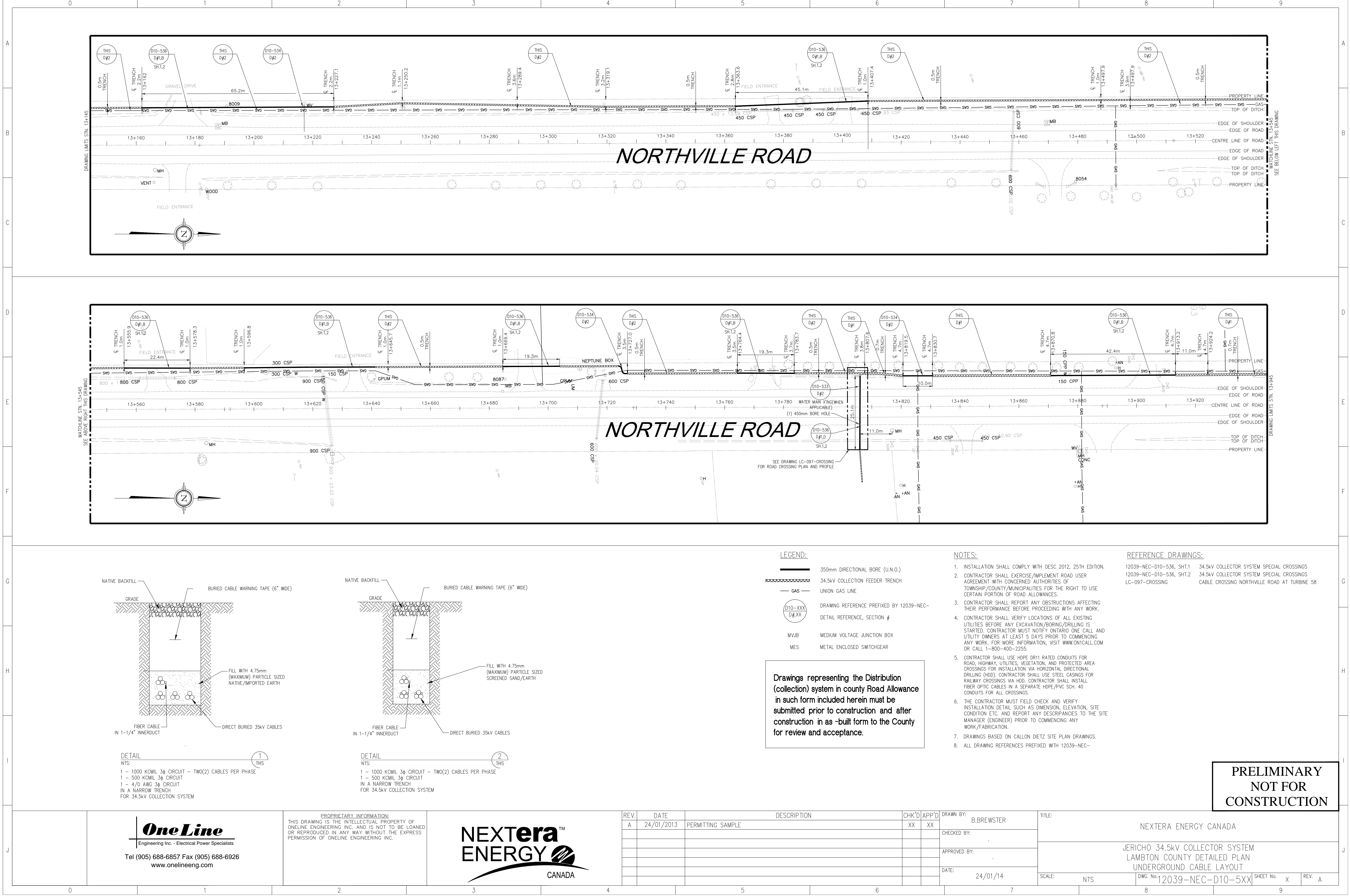
Schedule B8

Jericho Conductor Horizontal Clearances

The horizontal cable clearance is defined for cable under conductor Blowout Wind condition as specified in CSA C22.3 No.1 Section 5.2.7 & A5.2.7. The horizontal clearance requirements are specified in CSA C22.3 No.1 Table 6 (Railroad), Table 9 (building, signs, fence, etc.), Table 10 (bridges) and Table 35 (flashover for tree pruning).

Schedule B9

Jericho Distribution (Collection) Longitudinal Cross-Sections



LEGEND:	
	350mm DIRECTIONAL BORE (U.N.O.)
	34.5kV COLLECTION FEEDER TRENCH
	GAS
	DRAWING REFERENCE PREFIXED BY 12039-NEC-D#XX
	DETAIL REFERENCE, SECTION #
	MWJB MEDIUM VOLTAGE JUNCTION BOX
	MES METAL ENCLOSED SWITCHGEAR

- NOTES:**
- INSTALLATION SHALL COMPLY WITH OESC 2012, 25TH EDITION.
 - CONTRACTOR SHALL EXERCISE/IMPLEMENT ROAD USER AGREEMENT WITH CONCERNED AUTHORITIES OF TOWNSHIP/COUNTY/MUNICIPALITIES FOR THE RIGHT TO USE CERTAIN PORTION OF ROAD ALLOWANCES.
 - CONTRACTOR SHALL REPORT ANY OBSTRUCTIONS AFFECTING THEIR PERFORMANCE BEFORE PROCEEDING WITH ANY WORK.
 - CONTRACTOR SHALL VERIFY LOCATIONS OF ALL EXISTING UTILITIES BEFORE ANY EXCAVATION/BORING/DRILLING IS STARTED. CONTRACTOR MUST NOTIFY ONTARIO ONE CALL AND UTILITY OWNERS AT LEAST 5 DAYS PRIOR TO COMMENCING ANY WORK. FOR MORE INFORMATION, VISIT WWW.ONTICALL.COM OR CALL 1-800-400-2255.
 - CONTRACTOR SHALL USE HDPE DR11 RATED CONDUITS FOR ROAD, HIGHWAY, UTILITIES, VEGETATION, AND PROTECTED AREA CROSSINGS FOR INSTALLATION VIA HORIZONTAL DIRECTIONAL DRILLING (HDD). CONTRACTOR SHALL USE STEEL CASINGS FOR RAILWAY CROSSINGS VIA HDD. CONTRACTOR SHALL INSTALL FIBER OPTIC CABLES IN A SEPARATE HDPE/PVC SCH. 40 CONDUITS FOR ALL CROSSINGS.
 - THE CONTRACTOR MUST FIELD CHECK AND VERIFY INSTALLATION DETAIL SUCH AS DIMENSION, ELEVATION, SITE CONDITION ETC. AND REPORT ANY DISCREPANCIES TO THE SITE MANAGER (ENGINEER) PRIOR TO COMMENCING ANY WORK/FABRICATION.
 - DRAWINGS BASED ON CALLON DIETZ SITE PLAN DRAWINGS.
 - ALL DRAWING REFERENCES PREFIXED WITH 12039-NEC-
- REFERENCE DRAWINGS:**
- | | |
|--------------------------|--|
| 12039-NEC-D10-536, SHT.1 | 34.5kV COLLECTOR SYSTEM SPECIAL CROSSINGS |
| 12039-NEC-D10-536, SHT.2 | 34.5kV COLLECTOR SYSTEM SPECIAL CROSSINGS |
| LC-097-CROSSING | CABLE CROSSING NORTHVILLE ROAD AT TURBINE 58 |

Drawings representing the Distribution (collection) system in county Road Allowance in such form included herein must be submitted prior to construction and after construction in as-built form to the County for review and acceptance.

PRELIMINARY
NOT FOR
CONSTRUCTION

OneLine
Engineering Inc. - Electrical Power Specialists
Tel (905) 688-6857 Fax (905) 688-6926
www.onelineeng.com

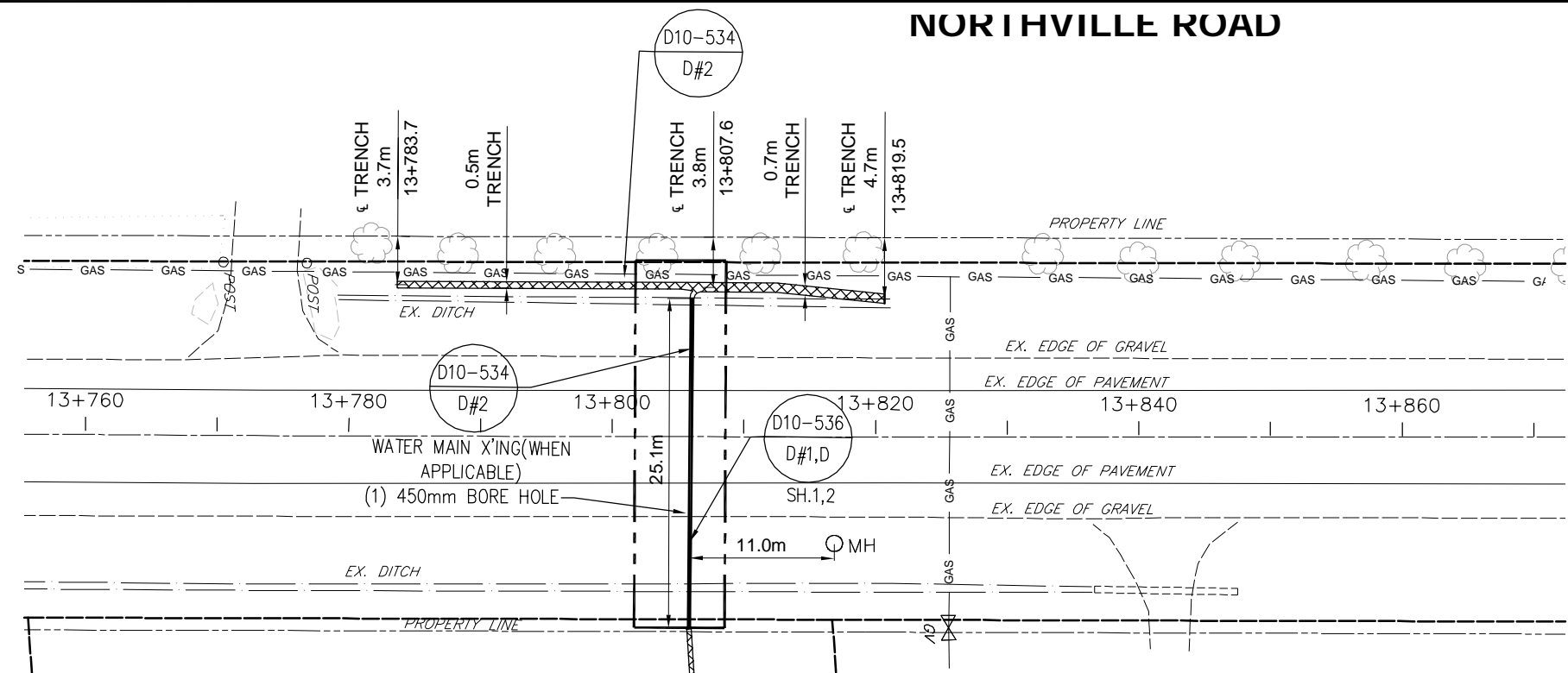
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NEXtera
ENERGY
CANADA

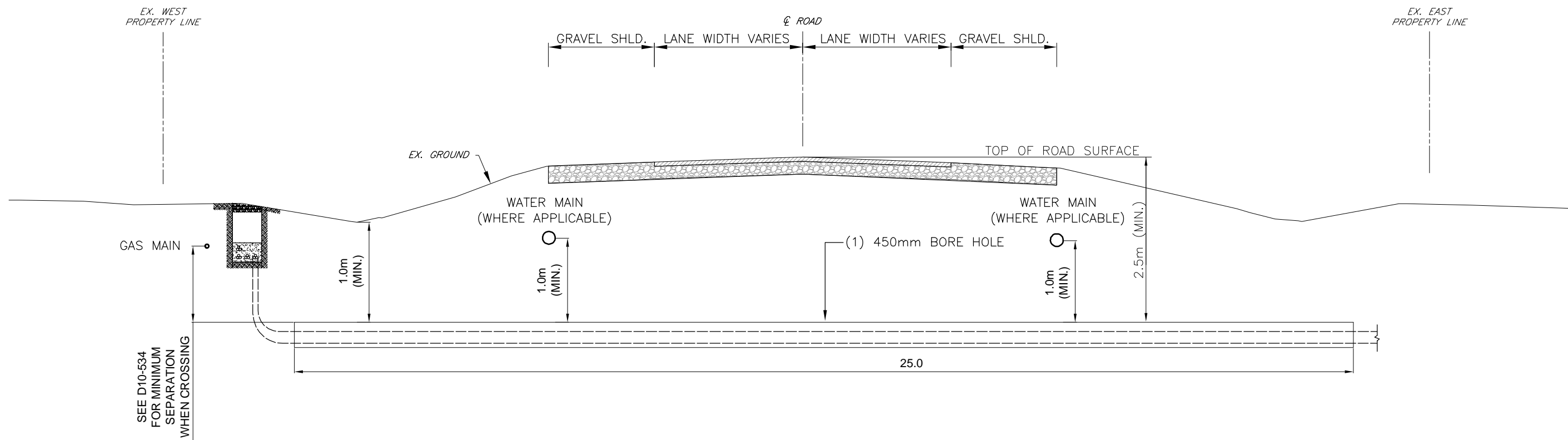
REV.	DATE	DESCRIPTION	CHK'D	APP'D	DRAWN BY:	TITLE:
A	24/01/2013	PERMITTING SAMPLE	XX	XX	B.BREWSTER	NEXTERA ENERGY CANADA
					CHECKED BY:	
					APPROVED BY:	
					DATE:	
					24/01/14	
					SCALE:	NTS
					DWG. No.	12039-NEC-D10-5XX
					SHEET No.	X
					REV.	A

Schedule B10

Jericho Distribution (Collection) Perpendicular Cross-Sections



HORZ. 1:500



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LICENSED PROFESSIONAL ENGINEER
D.R.PRABHAN
100172331
JAN 24, 2014
PROVINCE OF ONTARIO

C.C. TATHAM & ASSOCIATES LTD. (CIVIL)

APPROVED FOR SUBMISSION

LICENSED PROFESSIONAL ENGINEER
B. F. STANTON
JAN 24/14
PROVINCE OF ONTARIO

ONE LINE ENGINEERING INC. (ELECTRICAL)



OneLine
Engineering Inc. - Electrical Power Specialists
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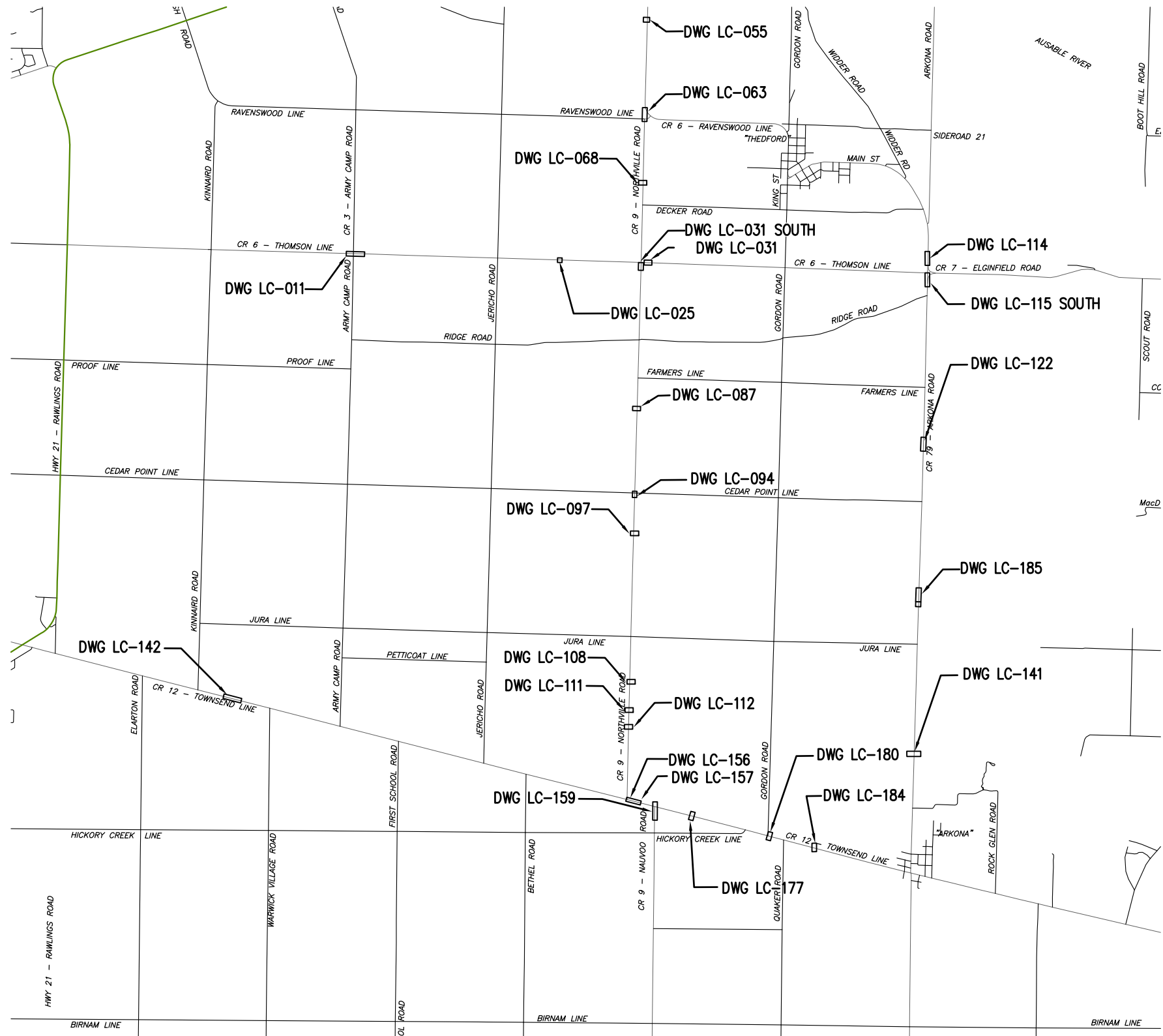


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Consulting Engineers
Collingwood Bracebridge Orillia Barrie

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B	RESUBMITTED TO COUNTY	01/24/14	K.P.
A	INFORMATION FOR PERMITTING	12/05/13	K.P.
NO.	REVISIONS	DATE	INITIAL

NEXTERA ENERGY CANADA, ULC JERICHO WIND ENERGY CENTRE CABLE CROSSING NORTHVILLE ROAD AT TURBINE 58	
SCALE: AS NOTED	DATE: OCTOBER 2013

DWG. No. LC-097-CROSSING
C.C. TATHAM & ASSOCIATES Ltd. FILE NO. 412414-1



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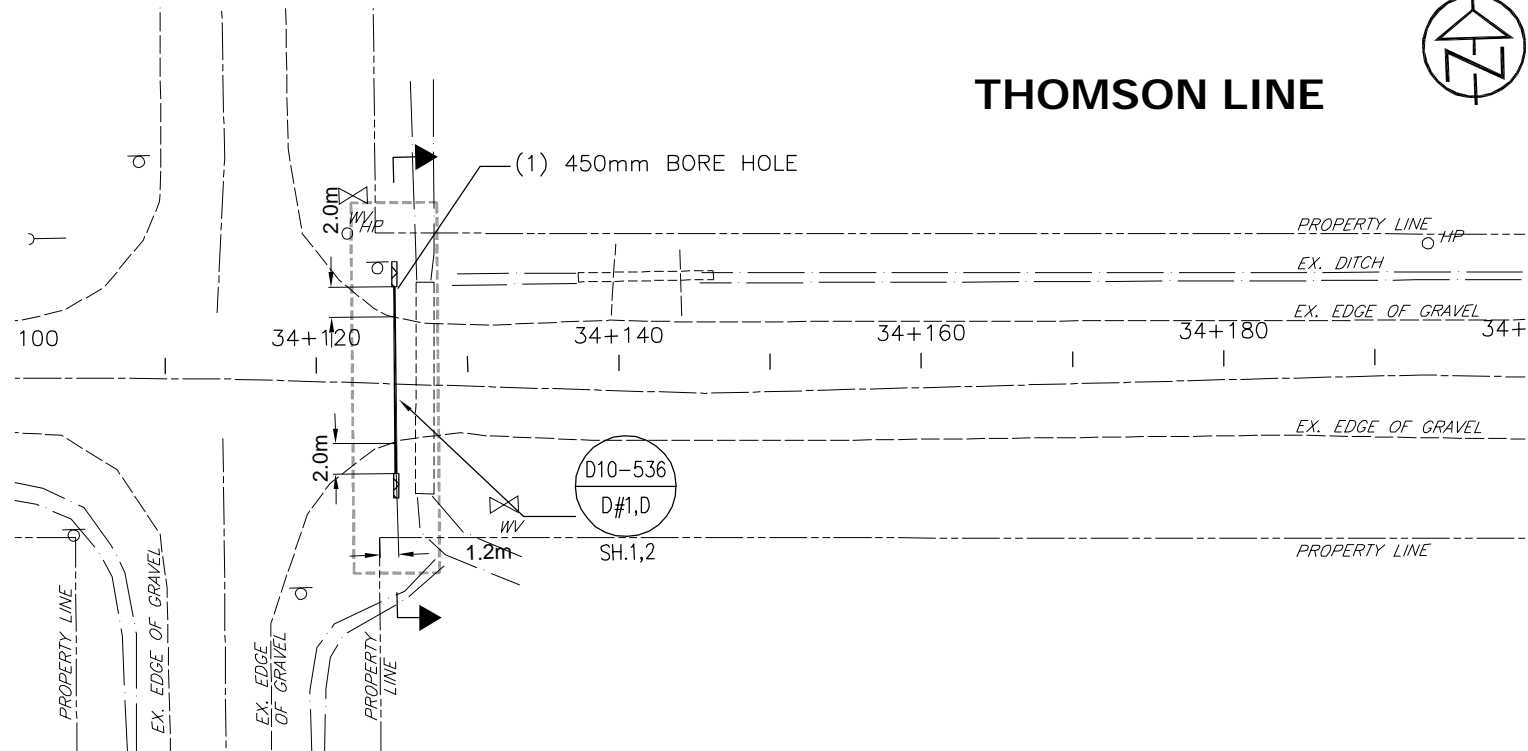
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NOT FOR CONSTRUCTION				NEXTERA ENERGY CANADA, ULC JERICHO WIND ENERGY CENTRE		DWG. No. LC-INDEX 2	
B	RESUBMITTED TO COUNTY FOR PERMITTING	12/05/13	K.P.	CROSSING INDEX SHEET		C.C. TATHAM & ASSOCIATES Ltd. FILE NO. 412414-1	
A	INFORMATION FOR PERMITTING	06/11/13	K.P.				
NO.	REVISIONS	DATE	INITIAL	SCALE: N.T.S.	DATE: OCTOBER 2013		

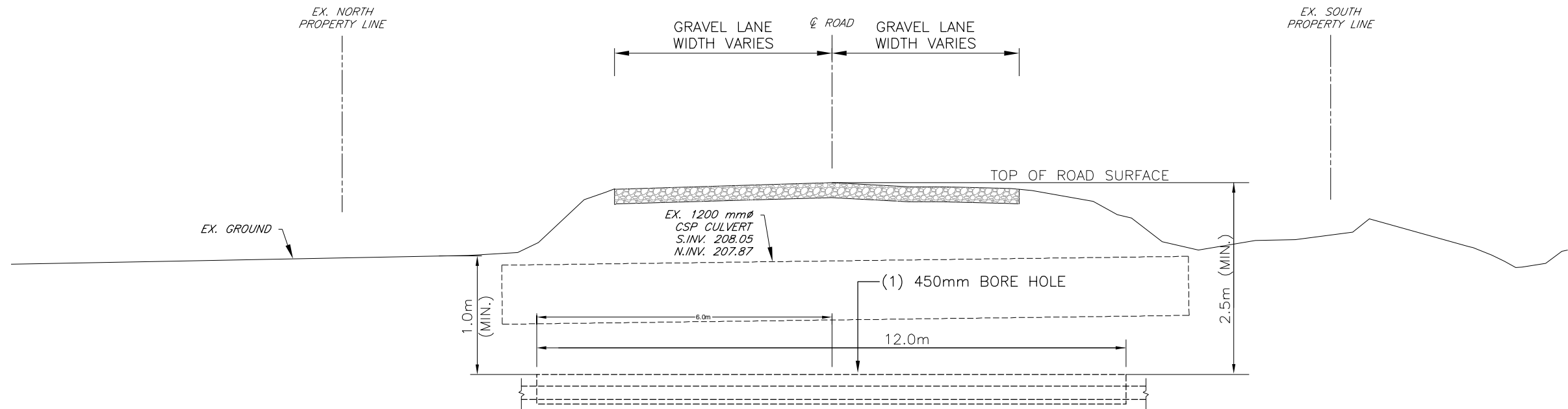
ARMY CAMP ROAD



THOMSON LINE



HORZ. 1:500



HORZ. 1:100

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B	RESUBMITTED TO COUNTY FOR PERMITTING	12/05/13	K.P.
A	INFORMATION FOR PERMITTING	06/11/13	K.P.

NEXTERA ENERGY CANADA, ULC
JERICHO WIND ENERGY CENTRE
CABLE CROSSING
THOMSON LINE AT ARMY CAMP ROAD

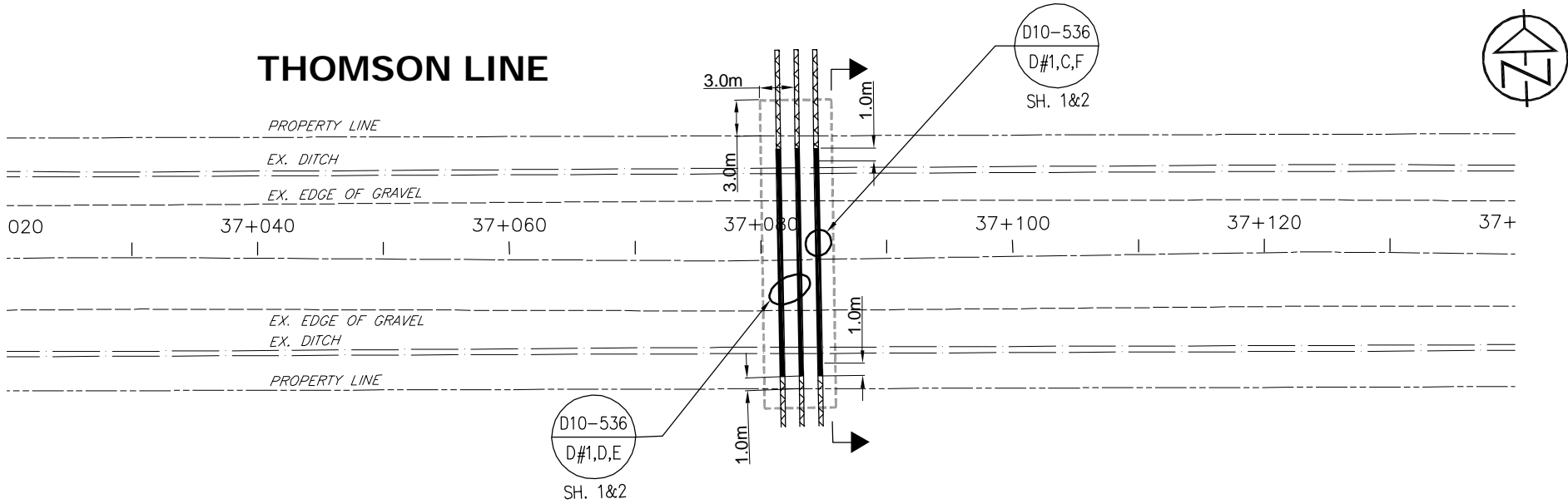
SCALE: AS NOTED

DATE: OCTOBER 2013

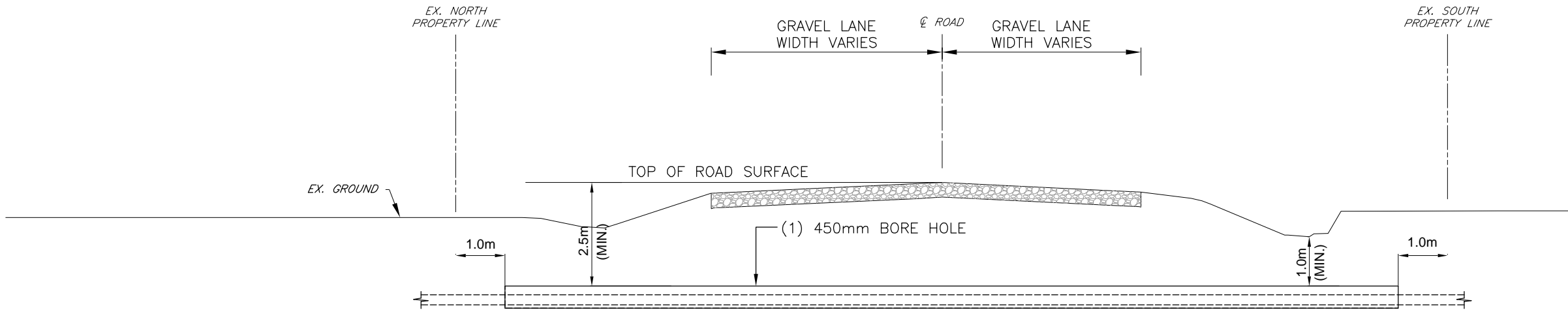
DWG. No.
LC-011-CROSSING

C.C. TATHAM & ASSOCIATES Ltd.
FILE NO. 412414-1

THOMSON LINE



HORZ. 1:500



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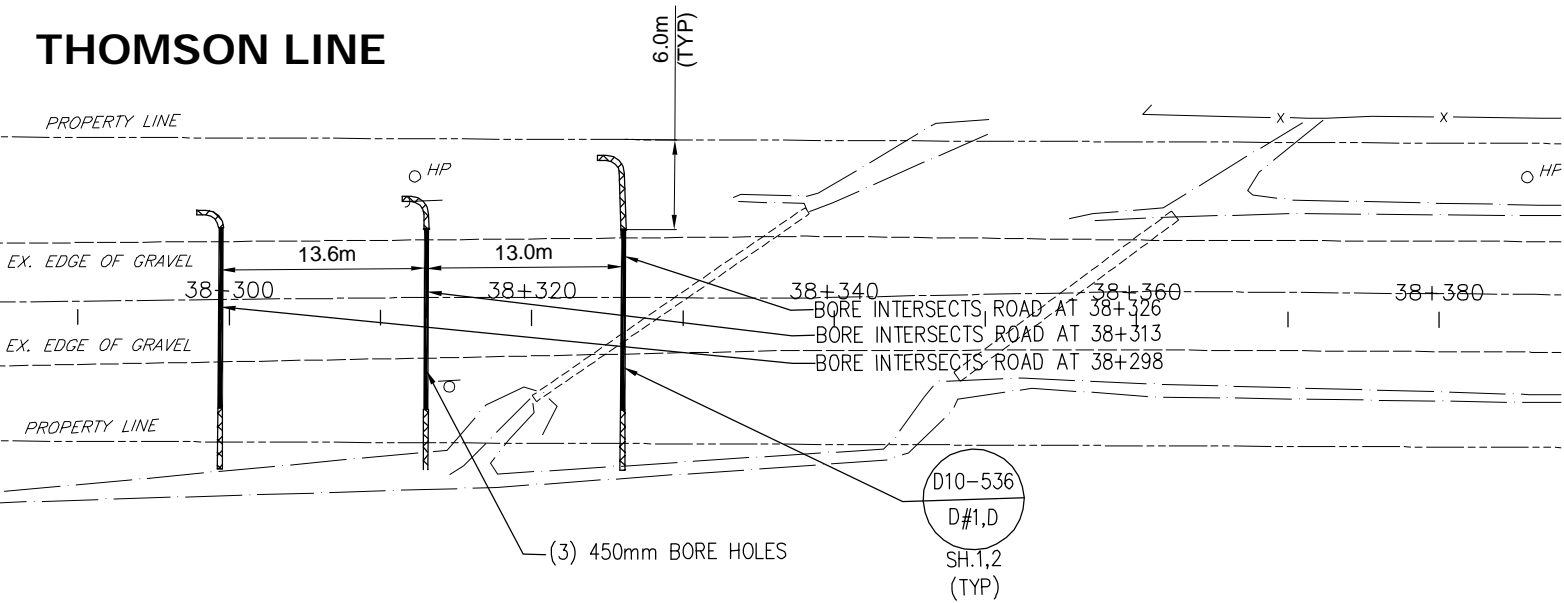
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Consulting Engineers
Collingwood Bracebridge Orillia Barrie

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A	INFORMATION FOR PERMITTING	06/11/13	K.P.
NO.	REVISIONS	DATE	INITIAL

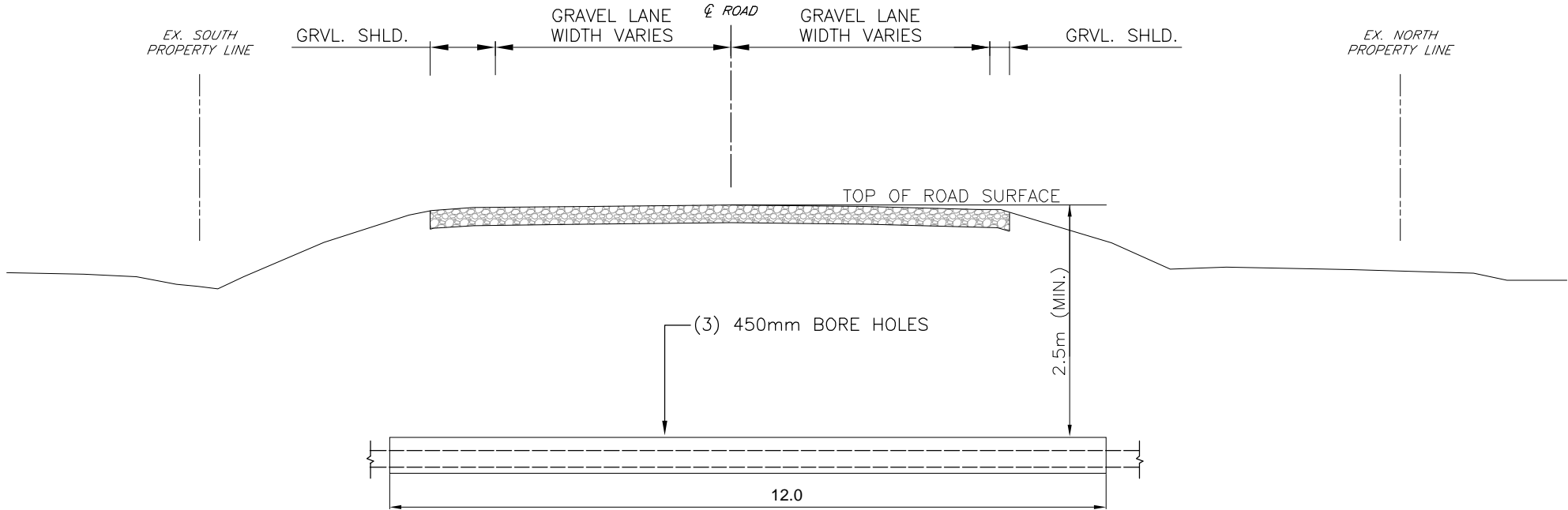
NEXTERA ENERGY CANADA, ULC JERICO WIND ENERGY CENTRE CABLE CROSSING THOMSON LINE AT TURBINE 26	
SCALE: AS NOTED	DATE: OCTOBER 2013

DWG. No. LC-025-CROSSING
C.C. TATHAM & ASSOCIATES Ltd. FILE NO. 412414-1

THOMSON LINE



HORZ. 1:500



HORZ. 1:100

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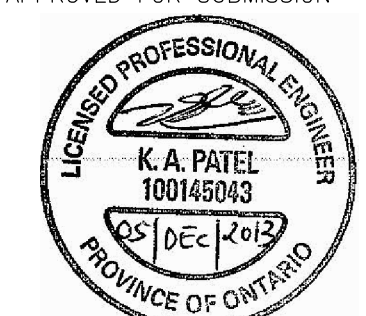
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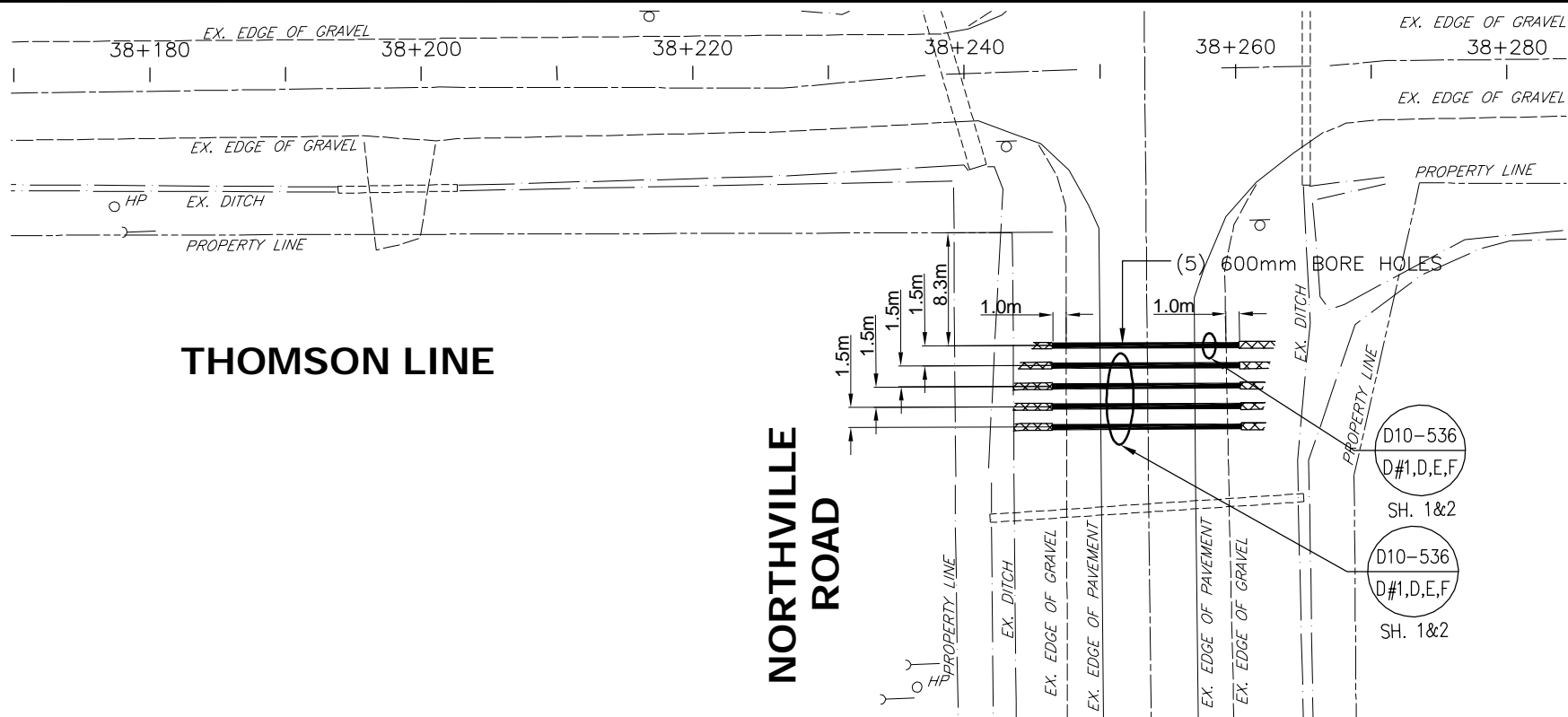
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NO.	REVISIONS	DATE	INITIAL
B	RESUBMITTED TO COUNTY FOR PERMITTING	12/05/13	K.P.
A	INFORMATION FOR PERMITTING	06/11/13	K.P.

NEXTERA ENERGY CANADA, ULC JERICHO WIND ENERGY CENTRE CABLE CROSSING THOMSON LINE EAST OF NORTHVILLE ROAD	DWG. No. LC-031-CROSSING
SCALE: AS NOTED	DATE: OCTOBER 2013

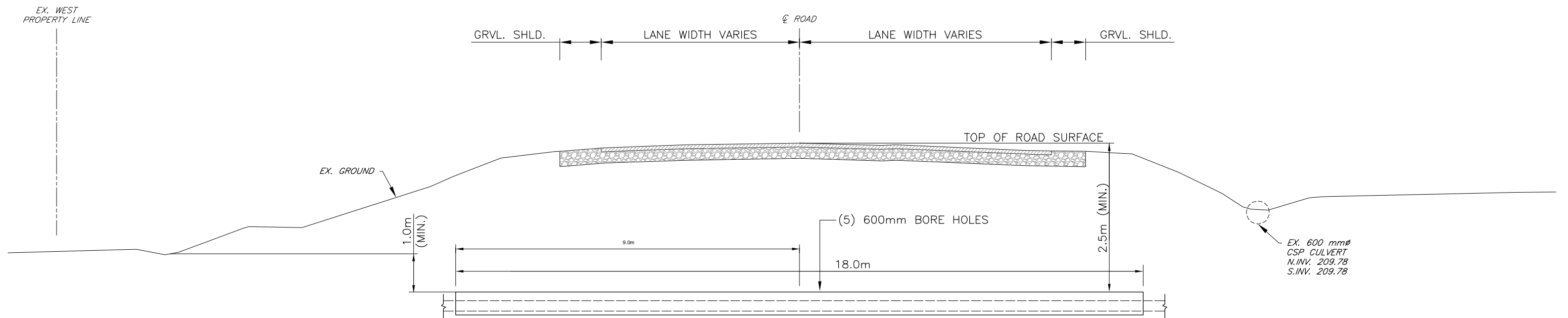
C.C. TATHAM & ASSOCIATES Ltd.
FILE NO. 412414-1



THOMSON LINE

NORTHVILLE ROAD

HORZ. 1:500



HORZ. 1:100

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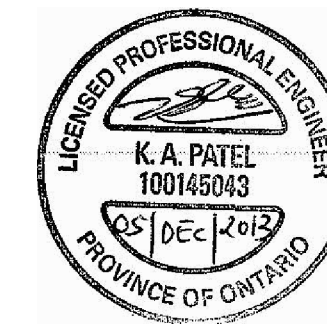
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NO.	REVISIONS	DATE	INITIAL
B	RESUBMITTED TO COUNTY FOR PERMITTING	12/05/13	K.P.
A	INFORMATION FOR PERMITTING	06/11/13	K.P.

NEXTERA ENERGY CANADA, ULC
JERICO WIND ENERGY CENTRE
CABLE CROSSING
NORTHVILLE ROAD AT THOMSON LINE

SCALE: AS NOTED

DATE: OCTOBER 2013



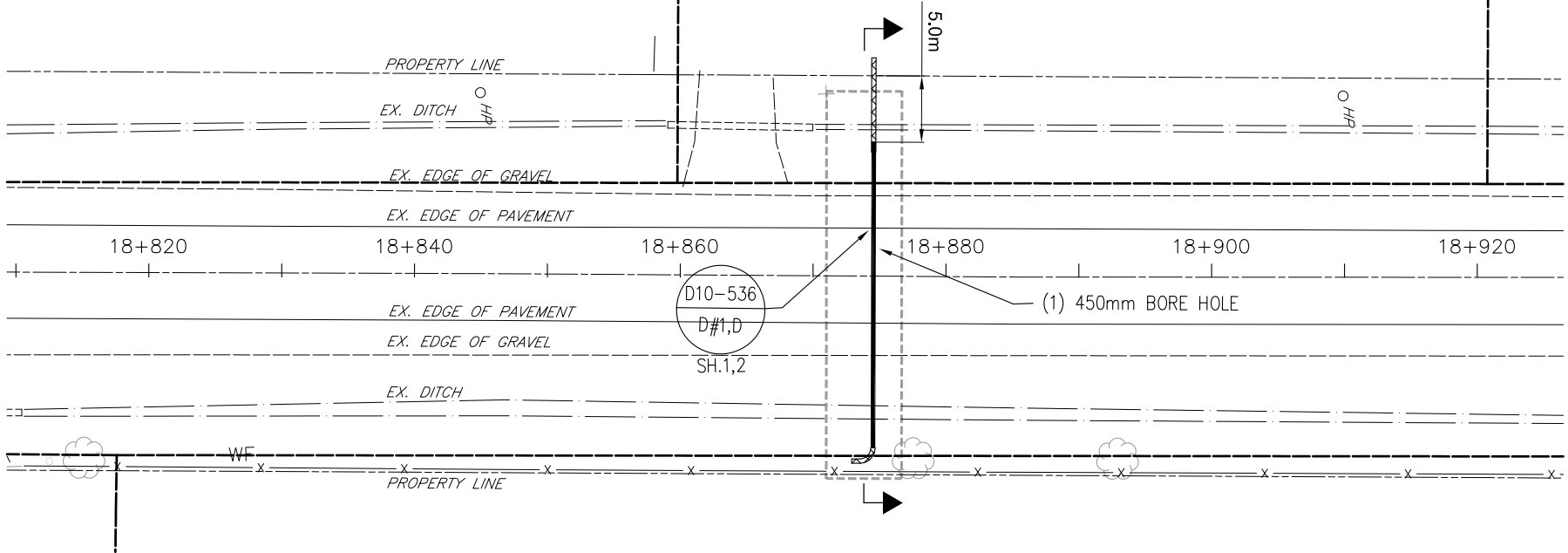
C.C. Tatham & Associates Ltd.
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Collingwood Bracebridge Orillia Barrie

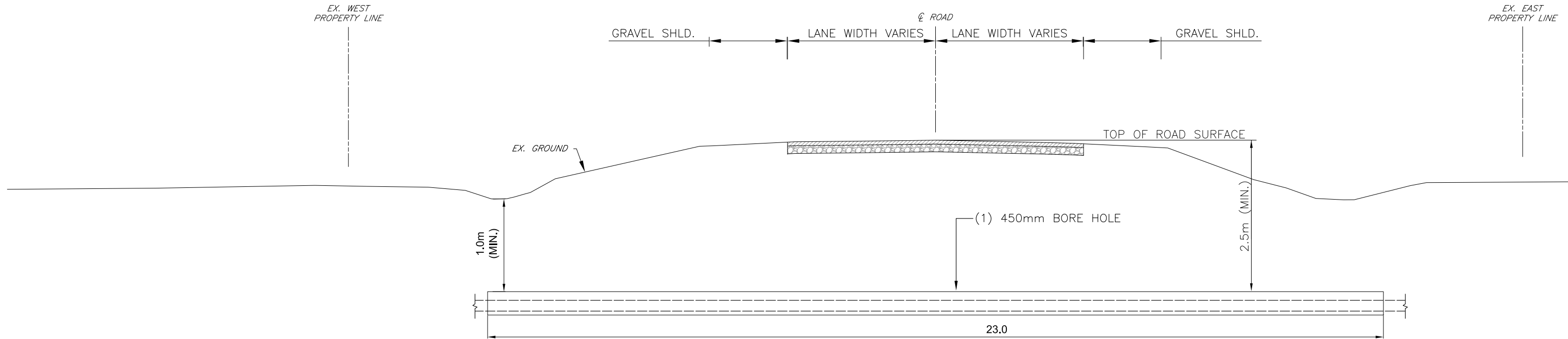
DWG. No.
LC-031-CROSSING
SOUTH

C.C. TATHAM & ASSOCIATES Ltd.
FILE NO. 412414-1

NORTHVILLE ROAD



HORZ. 1:500



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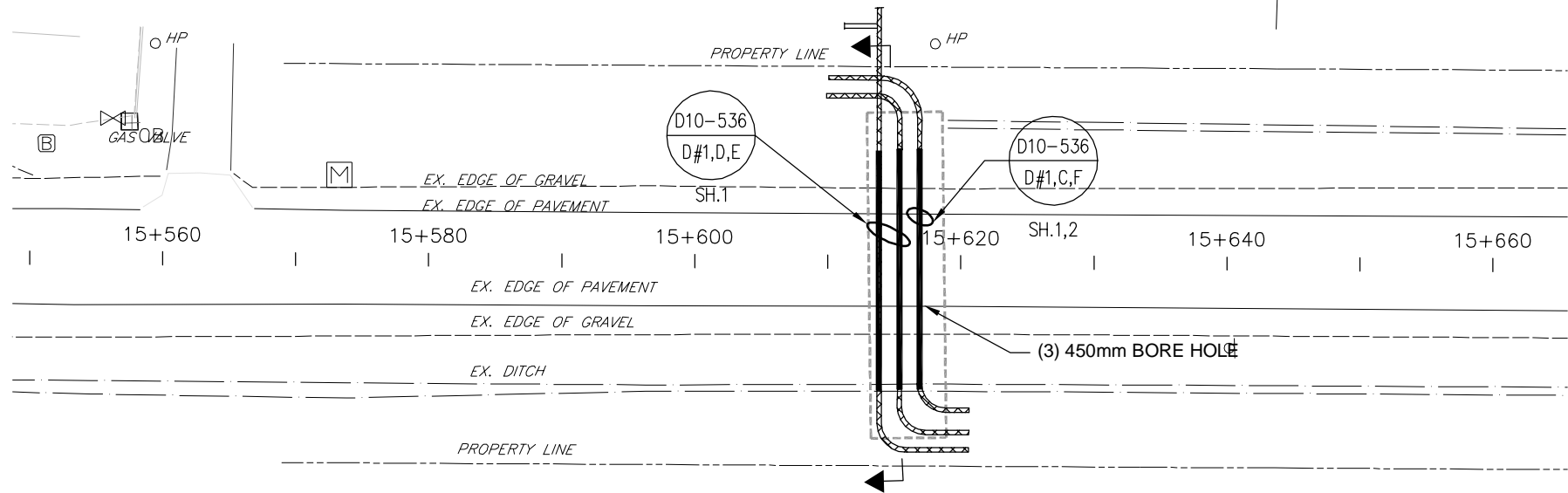
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NOT FOR CONSTRUCTION			
A	INFORMATION FOR PERMITTING	12/05/13	K.P.
NO.	REVISIONS	DATE	INITIAL

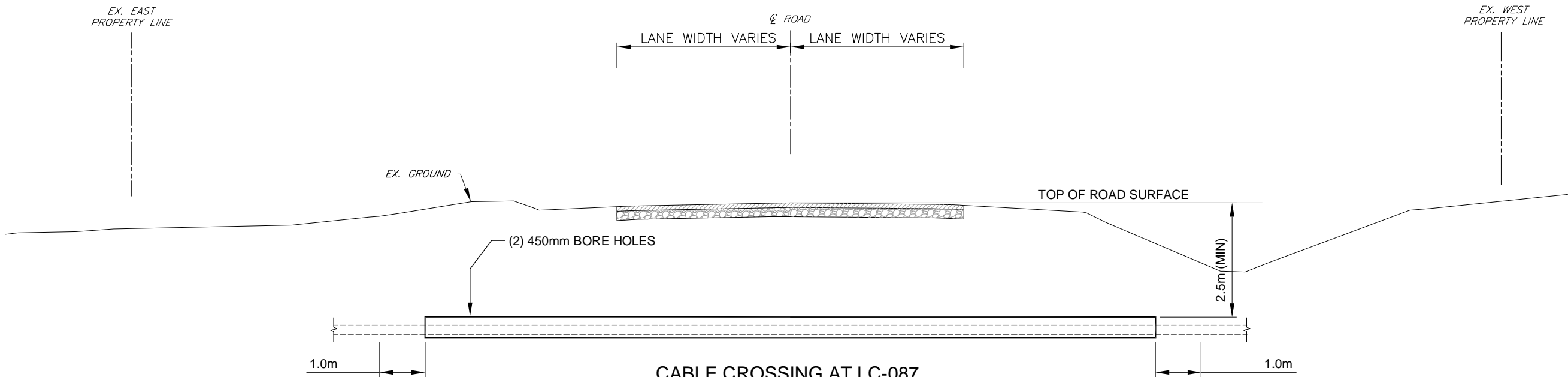
NEXTERA ENERGY CANADA, ULC JERICHO WIND ENERGY CENTRE CABLE CROSSING NORTHVILLE ROAD AT TURBINE 22	
SCALE: AS NOTED	DATE: OCTOBER 2013

DWG. No. LC-068-CROSSING
C.C. TATHAM & ASSOCIATES Ltd. FILE NO. 412414-1

NORTHVILLE ROAD



HORZ. 1:500



CABLE CROSSING AT LC-087
NORTHVILLE ROAD AT TURBINE 45

SCALE: 1:100

HORZ. 1:100

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A	INFORMATION FOR PERMITTING	06/11/13	K.P.
NO.	REVISIONS	DATE	INITIAL

NEXTERA ENERGY CANADA, ULC
JERICHO WIND ENERGY CENTRE
CABLE CROSSING
NORTHVILLE ROAD AT TURBINE 45

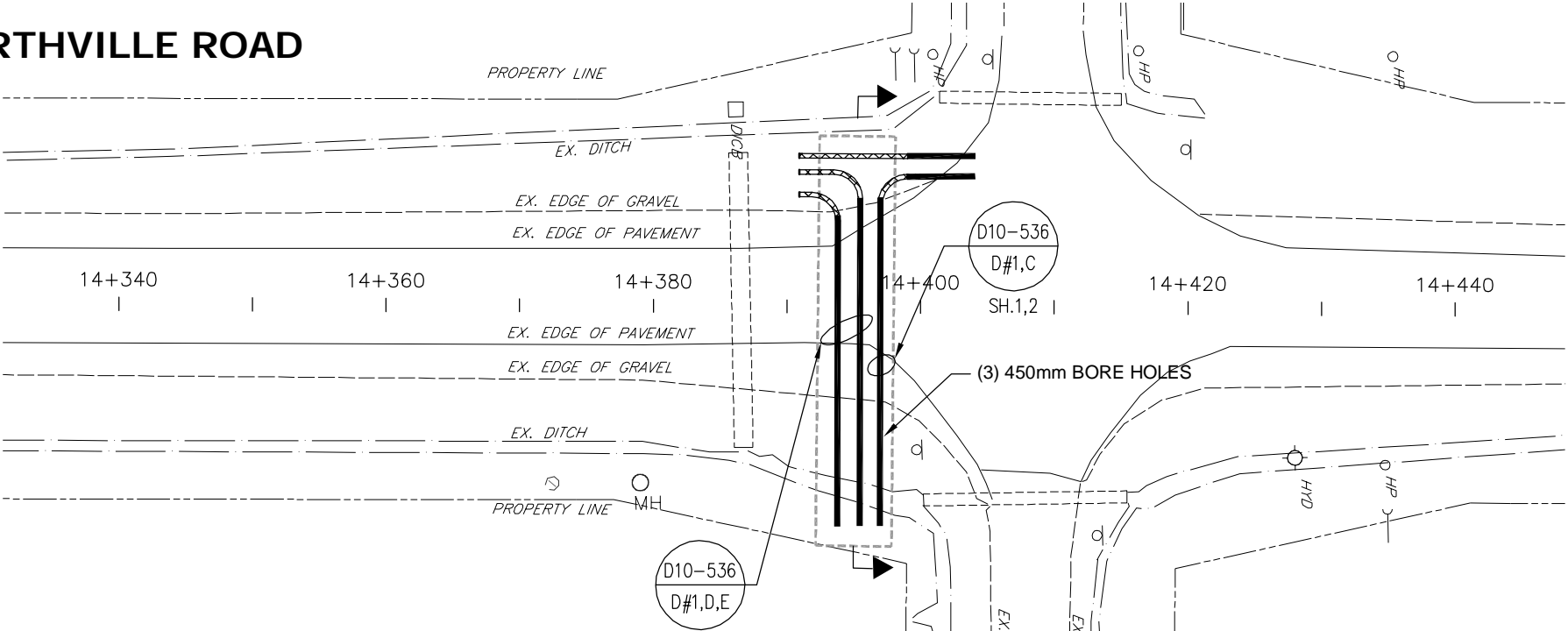
SCALE: AS NOTED

DATE: OCTOBER 2013

DWG. No.
LC-087-CROSSING

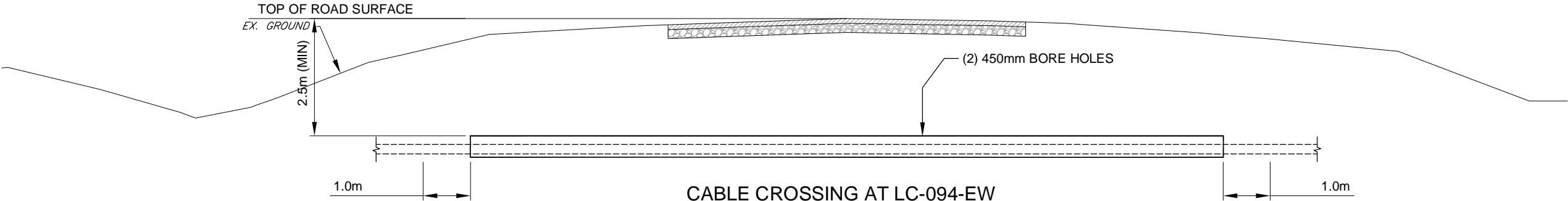
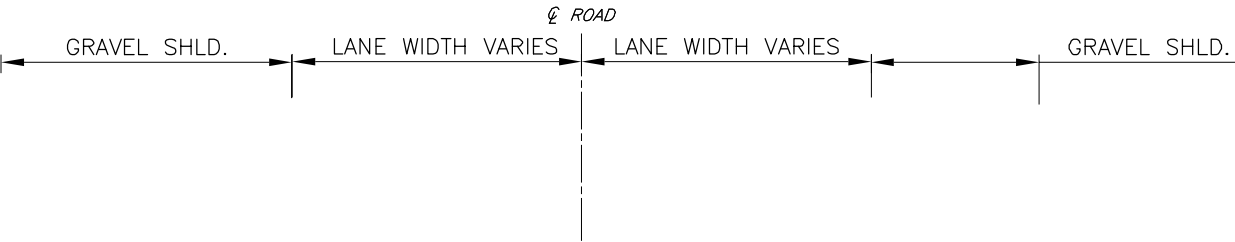
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FILE NO. 412414-1

NORTHVILLE ROAD



CEDAR POINT LINE

HORZ. 1:500



CABLE CROSSING AT LC-094-EW
NORTHVILLE ROAD AT CEDAR POINT LINE

SCALE: 1:100

HORZ. 1:100

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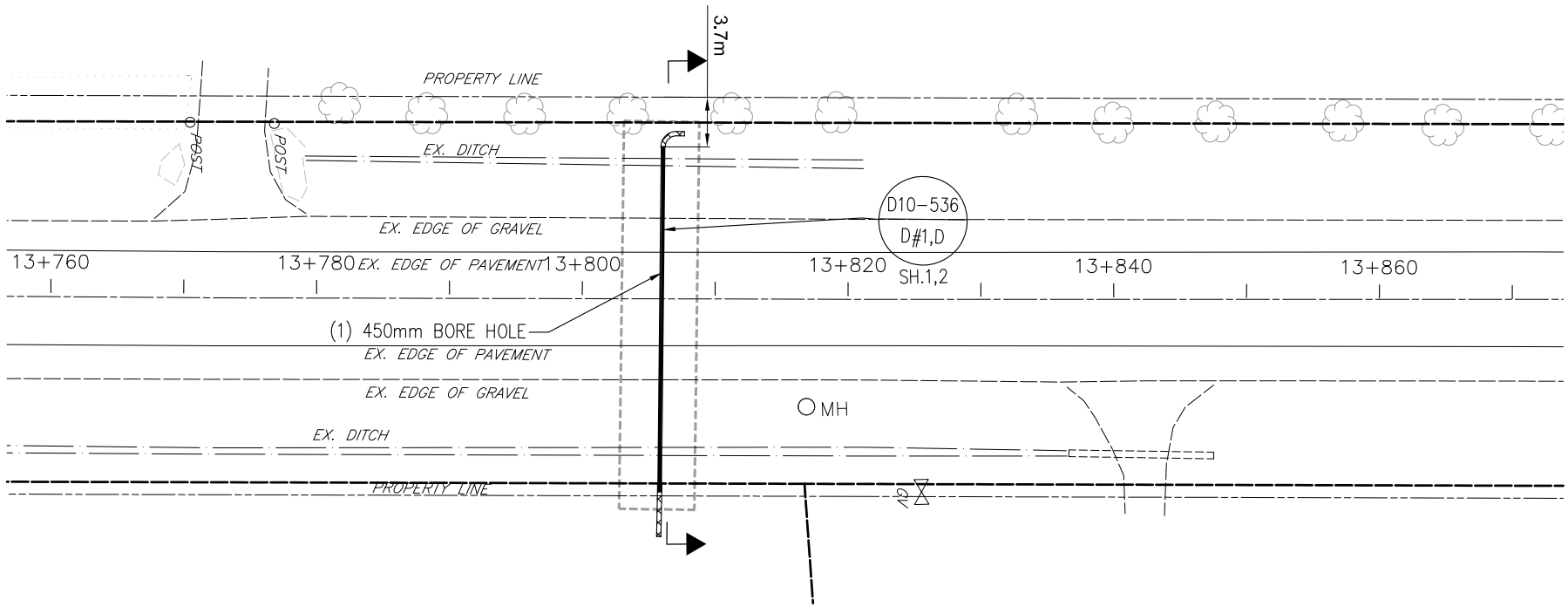
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Consulting Engineers
Collingwood Bracebridge Orillia Barrie

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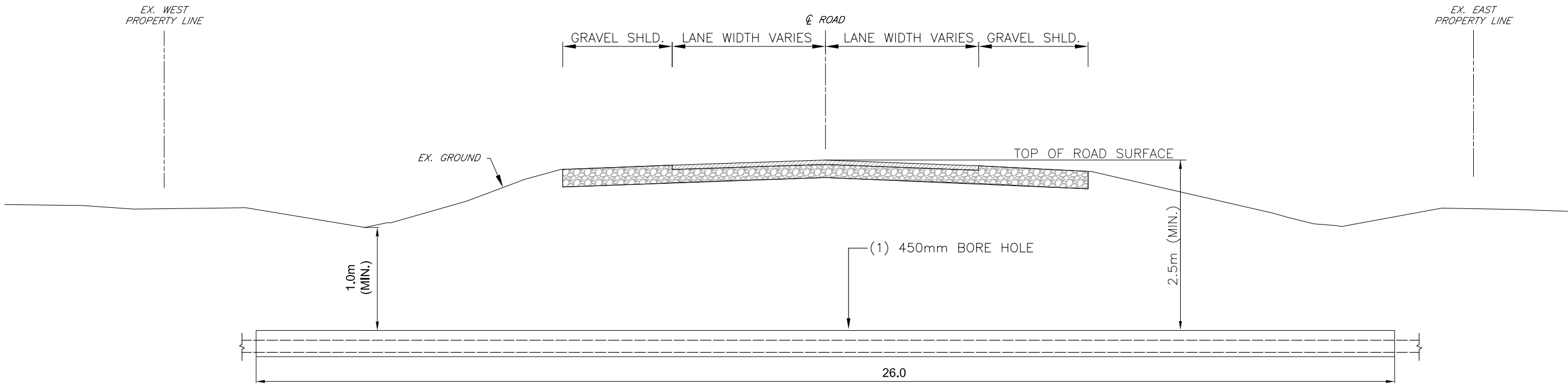
NEXTERA ENERGY CANADA, ULC JERICHO WIND ENERGY CENTRE CABLE CROSSING NORTHVILLE ROAD AT CEDAR POINT LINE	
SCALE: AS NOTED	DATE: OCTOBER 2013

DWG. No. LC-094-CROSSING
C.C. TATHAM & ASSOCIATES Ltd. FILE NO. 412414-1

NORTHVILLE ROAD



HORZ. 1:500



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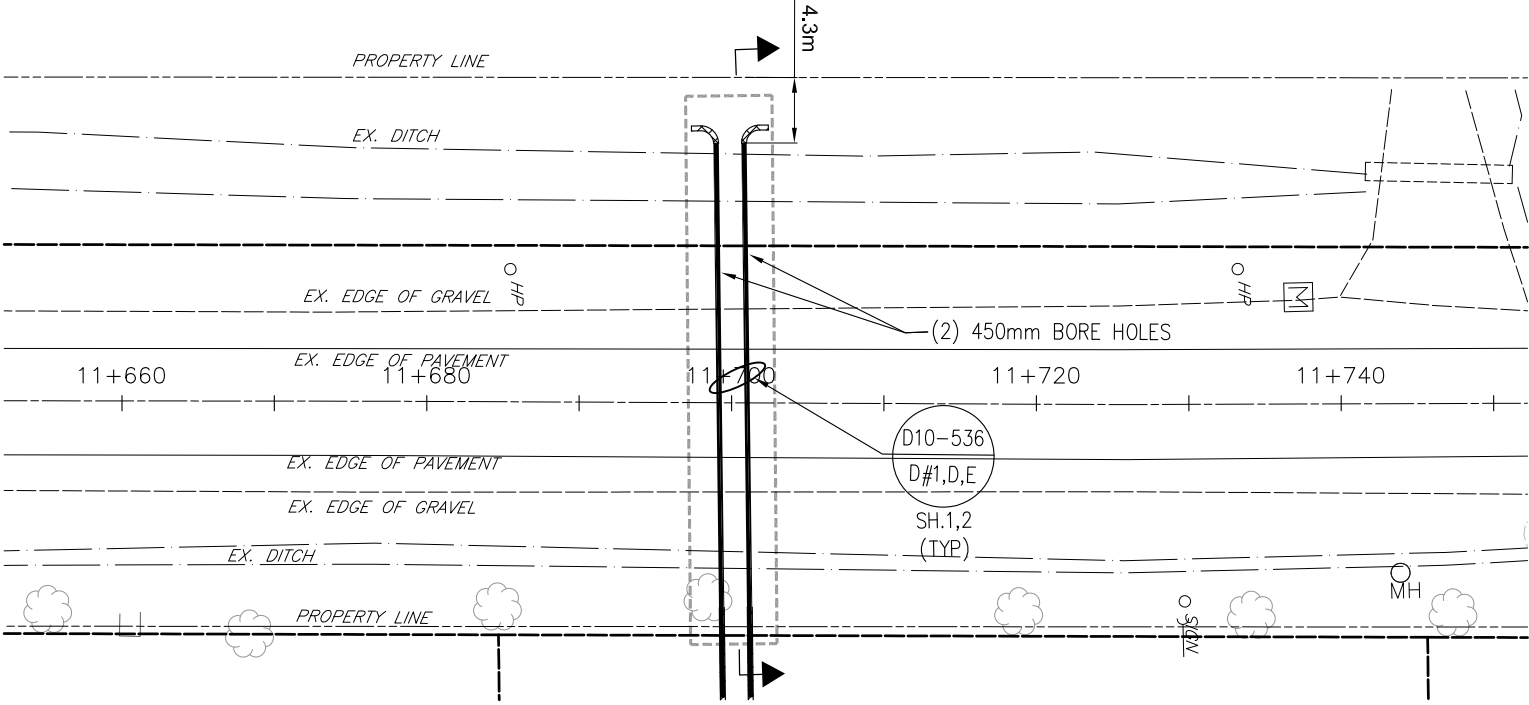
A	INFORMATION FOR PERMITTING	12/05/13	K.P.
NO.	REVISIONS	DATE	INITIAL

NEXTERA ENERGY CANADA, ULC JERICHO WIND ENERGY CENTRE CABLE CROSSING NORTHVILLE ROAD AT TURBINE 58	
SCALE: AS NOTED	DATE: OCTOBER 2013

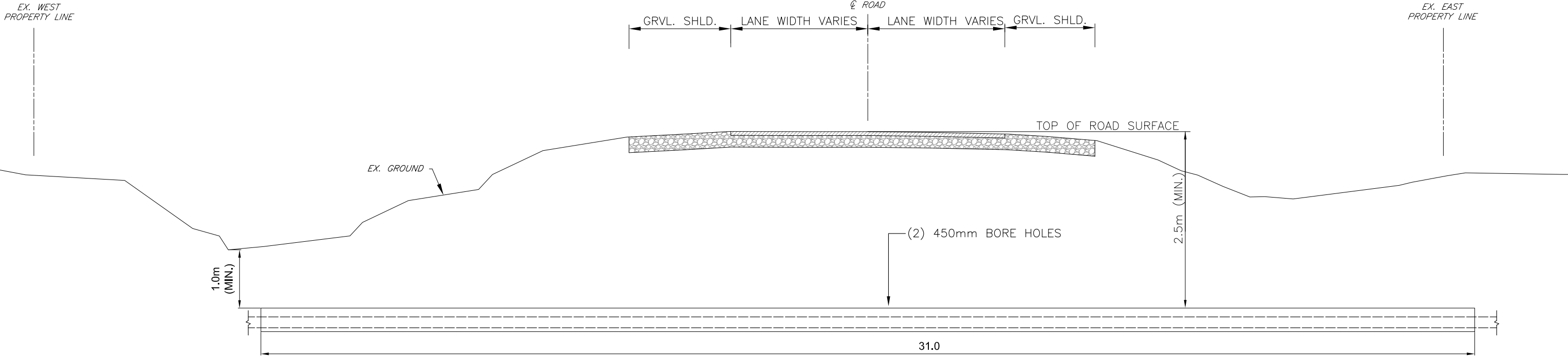
DWG. No.
LC-097-CROSSING

C.C. TATHAM & ASSOCIATES Ltd.
FILE NO. 412414-1

NORTHVILLE ROAD



HORZ. 1:500



HORZ. 1:100

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A	INFORMATION FOR PERMITTING	12/05/13	K.P.
NO.	REVISIONS	DATE	INITIAL

NEXTERA ENERGY CANADA, ULC JERICHO WIND ENERGY CENTRE CABLE CROSSING NORTHVILLE ROAD AT TURBINE 60	
SCALE: AS NOTED	DATE: OCTOBER 2013

DWG. No.
LC-108-CROSSING

C.C. TATHAM & ASSOCIATES Ltd.
FILE NO. 412414-1

NORTHVILLE ROAD

PROPERTY LINE

EX. DITCH

EX. EDGE OF GRAVEL

EX. EDGE OF PAVEMENT

EX. EDGE OF PAVEMENT

EX. EDGE OF GRAVEL

EX. DITCH

PROPERTY LINE

20

11+240

11+260

11+280

11+300

11+3

D10-536

D#1 D.F.

SR. 1,2 (TYP)

4.3m

(3) 450mm BORE HOLES

HP

q

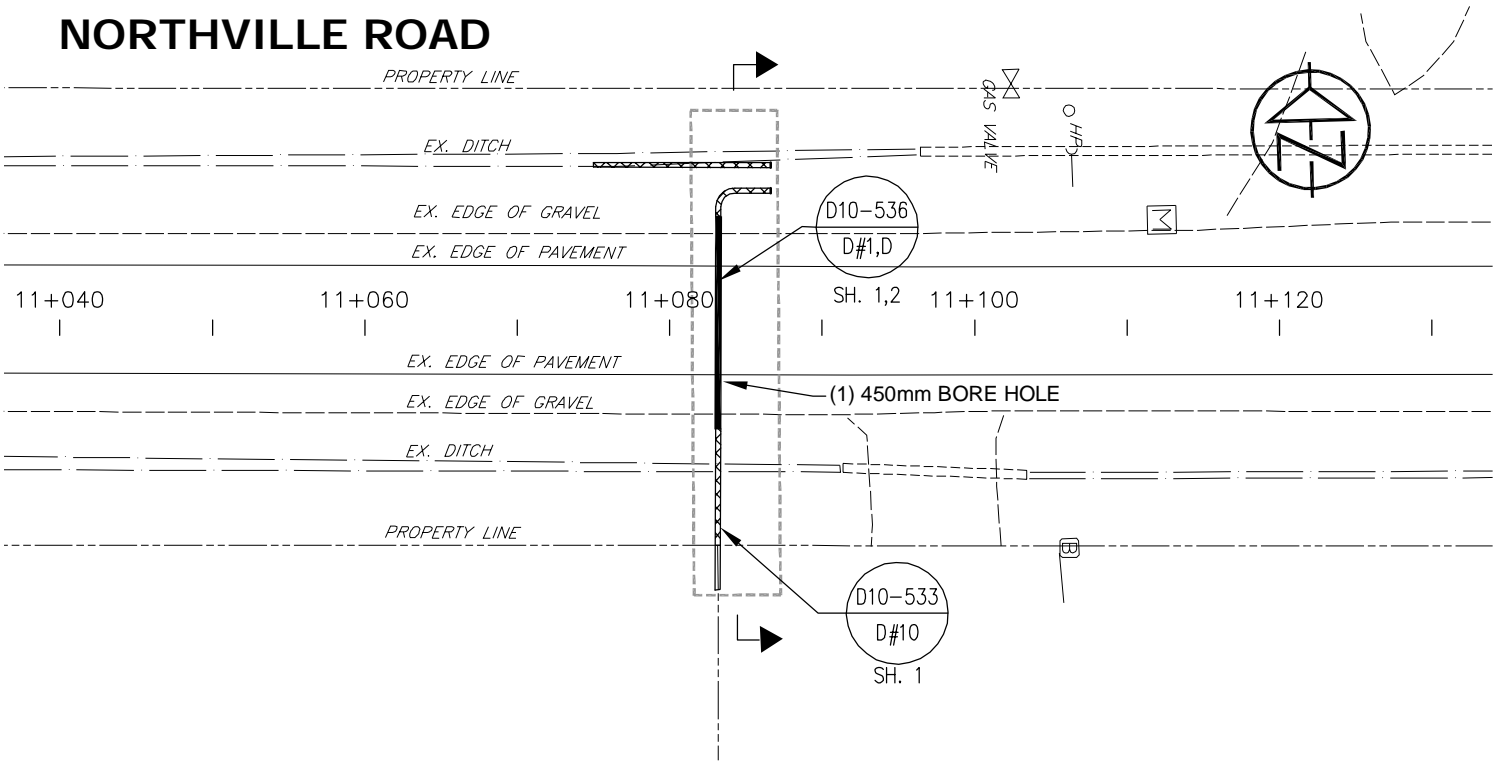
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C M

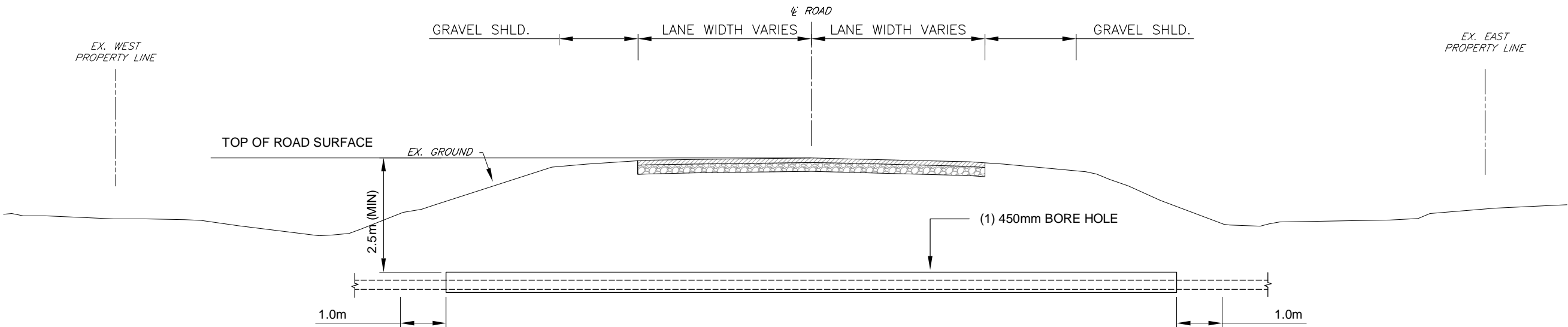
Diagram illustrating the cross-section of a road and culvert installation. The diagram shows the road surface, gravel lanes, and the culvert structure. Key dimensions and labels include:

- EX. NORTH PROPERTY LINE** and **EX. SOUTH PROPERTY LINE**: Vertical dashed lines indicating the existing property boundaries.
- GRAVEL LANE WIDTH VARIES**: Two horizontal dimension lines above the road surface indicating the width of the gravel lanes on either side of the road centerline.
- ℄ ROAD**: A vertical dashed line representing the centerline of the road.
- TOP OF ROAD SURFACE**: A horizontal line indicating the top of the road surface.
- EX. GROUND**: A line representing the existing ground level.
- EX. 1200 mm \varnothing CSP CULVERT**: A label pointing to the culvert structure with the following data:
 - S.INV. 208.05
 - N.INV. 207.87
- (1) 450mm BORE HOLE**: A label pointing to a hole in the culvert structure.
- 1.0m (MIN.)**: A vertical dimension line indicating the minimum depth of the culvert structure below the road surface.
- 6.0m**: A horizontal dimension line indicating the length of the culvert structure.
- 12.0m**: A horizontal dimension line indicating the total length of the gravel lane and culvert structure.
- 2.5m (MIN.)**: A vertical dimension line indicating the minimum depth of the gravel lane below the road surface.

NORTHVILLE ROAD



HORZ. 1:500



CABLE CROSSING AT LC-112
NORTHVILLE ROAD AT TURBINE 62
SCALE: 1:100

HORZ. 1:100

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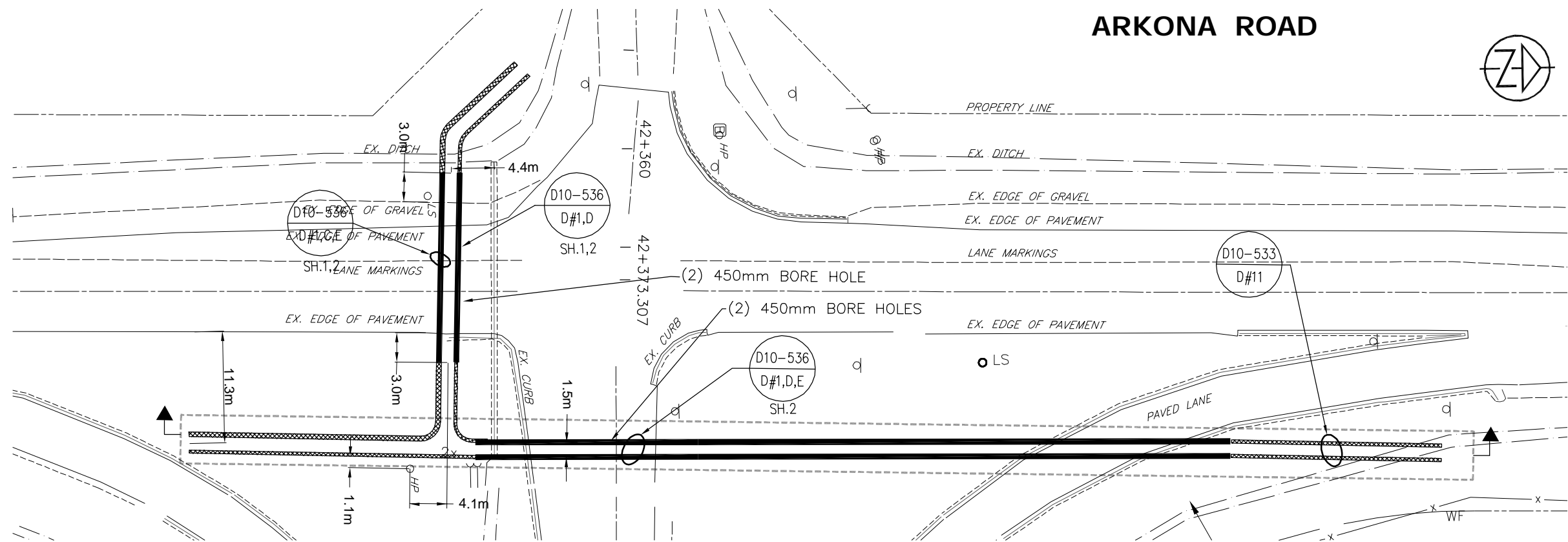
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Collingwood Bracebridge Orillia Barrie

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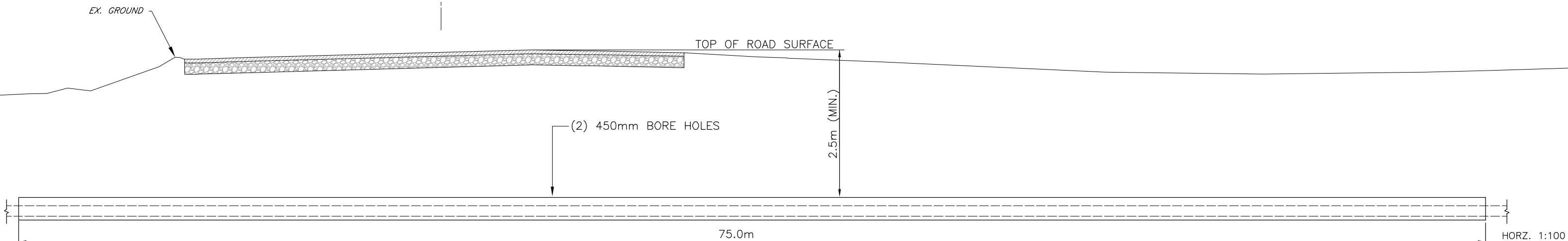
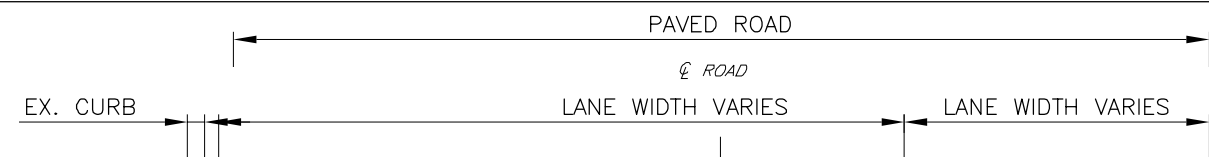
B	RESUBMITTED TO COUNTY FOR PERMITTING	12/05/13	K.P.
A	INFORMATION FOR PERMITTING	06/11/13	K.P.
NO.	REVISIONS	DATE	INITIAL

NEXTERA ENERGY CANADA, ULC JERICHO WIND ENERGY CENTRE	
CABLE CROSSING NORTHVILLE ROAD AT TURBINE 62	
SCALE: AS NOTED	DATE: OCTOBER 2013

DWG. No. LC-112-CROSSING
C.C. TATHAM & ASSOCIATES Ltd. FILE NO. 412414-1



HORZ. 1:500



HORZ. 1:100

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NEXTERA ENERGY CANADA, ULC
JERICHO WIND ENERGY CENTRE
CABLE CROSSING
ARKONA ROAD AT ELGINFIELD ROAD SOUTH

SCALE: AS NOTED

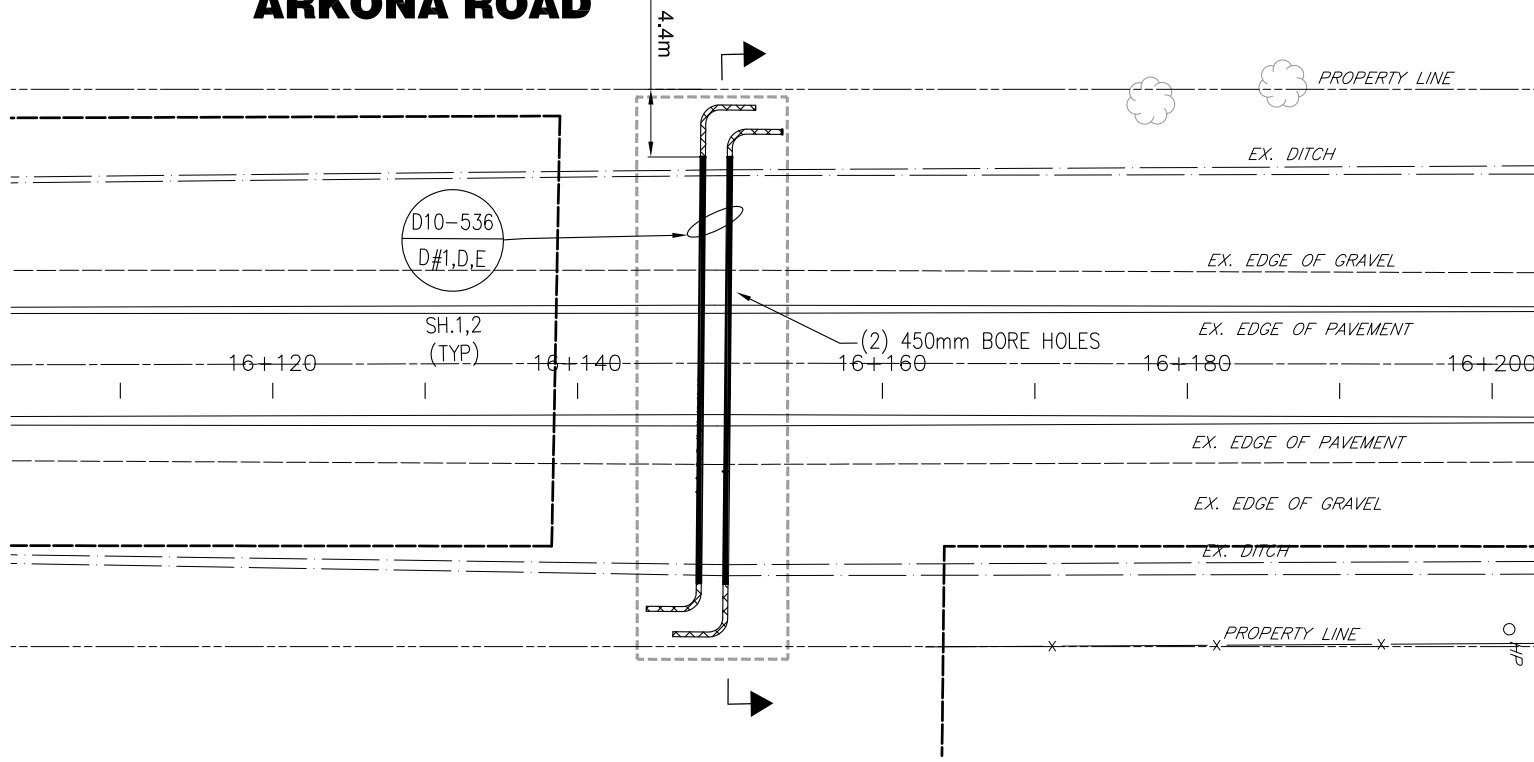
DATE: OCTOBER 2013

DWG. No.

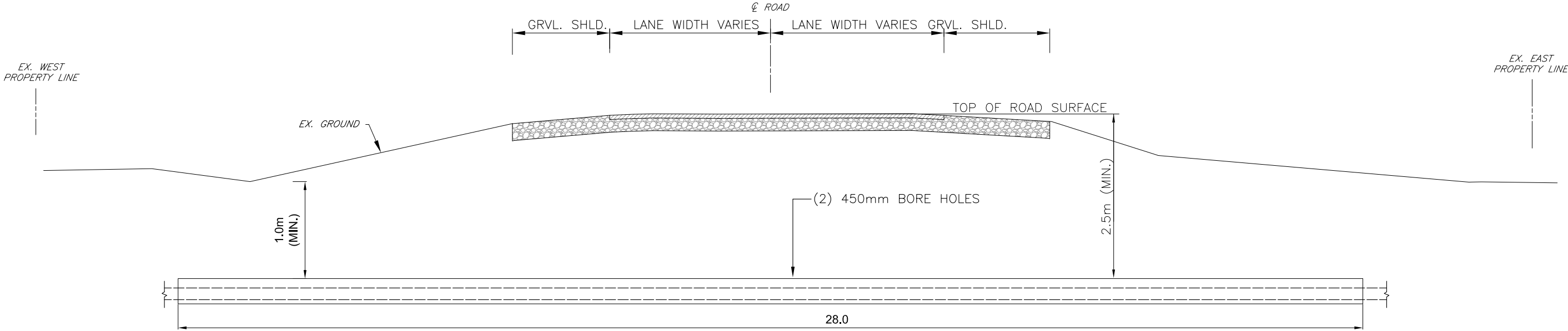
LC-114-CROSSING

C.C. TATHAM & ASSOCIATES Ltd.
FILE NO. 412414-1

ARKONA ROAD



HORZ. 1:500



HORZ. 1:100

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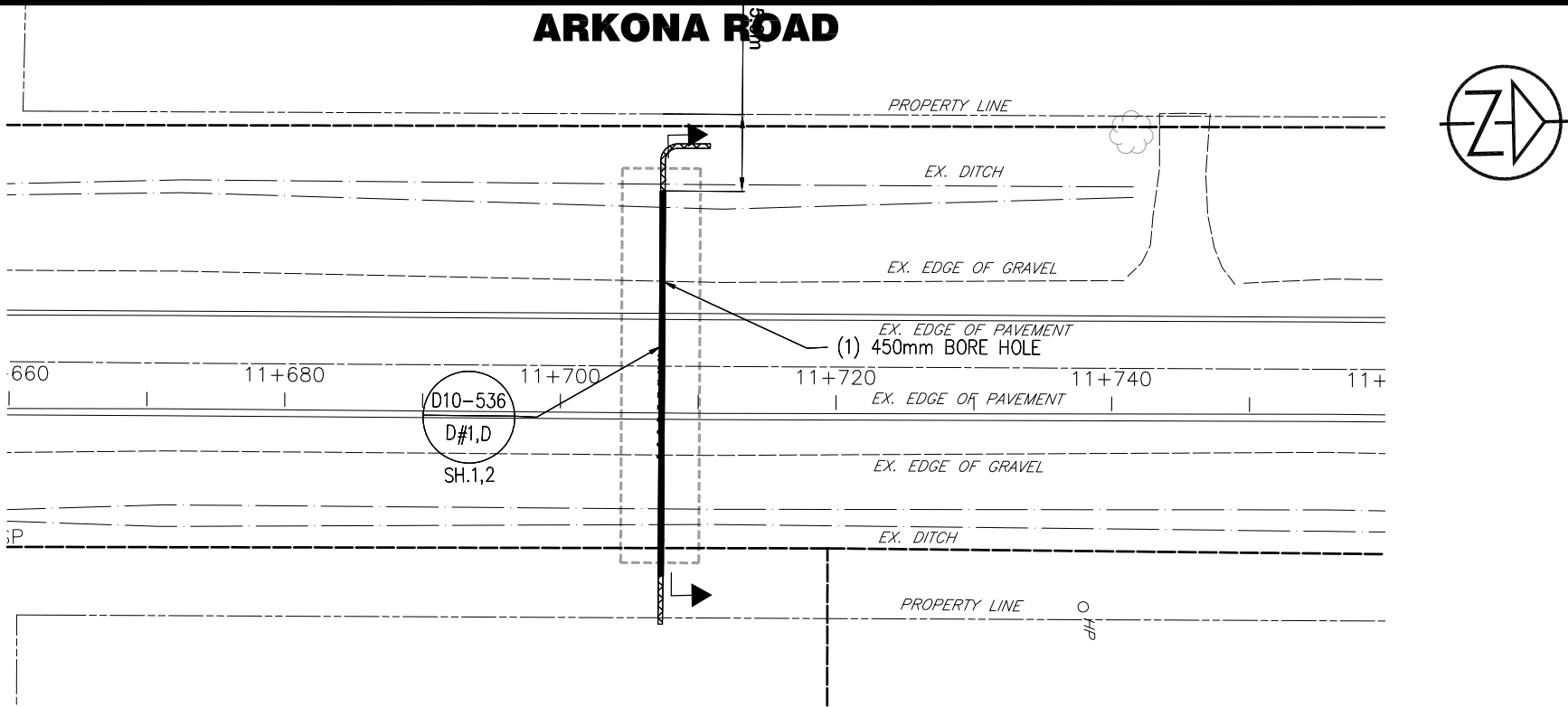
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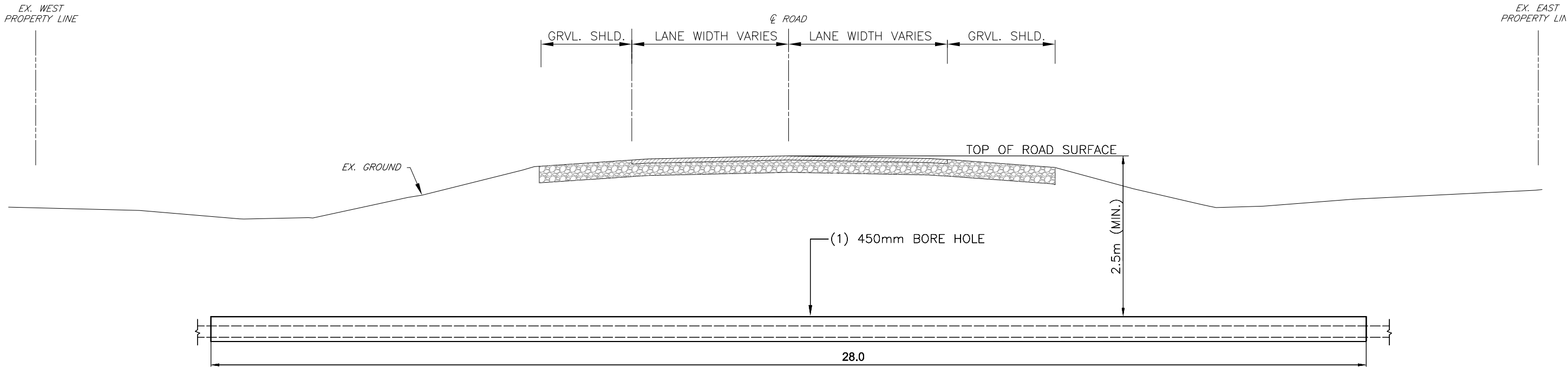
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Consulting Engineers
Collingwood Bracebridge Orillia Barrie

NOT FOR CONSTRUCTION				NEXTERA ENERGY CANADA, ULC JERICHO WIND ENERGY CENTRE CABLE CROSSING ARKONA ROAD		DWG. No. LC-122-CROSSING	
						C.C. TATHAM & ASSOCIATES Ltd. FILE NO. 412414-1	
A	INFORMATION FOR PERMITTING	12/05/13	K.P.	SCALE: AS NOTED		DATE: OCTOBER 2013	
NO.	REVISIONS	DATE	INITIAL				

ARKONA ROAD



HORZ. 1:500



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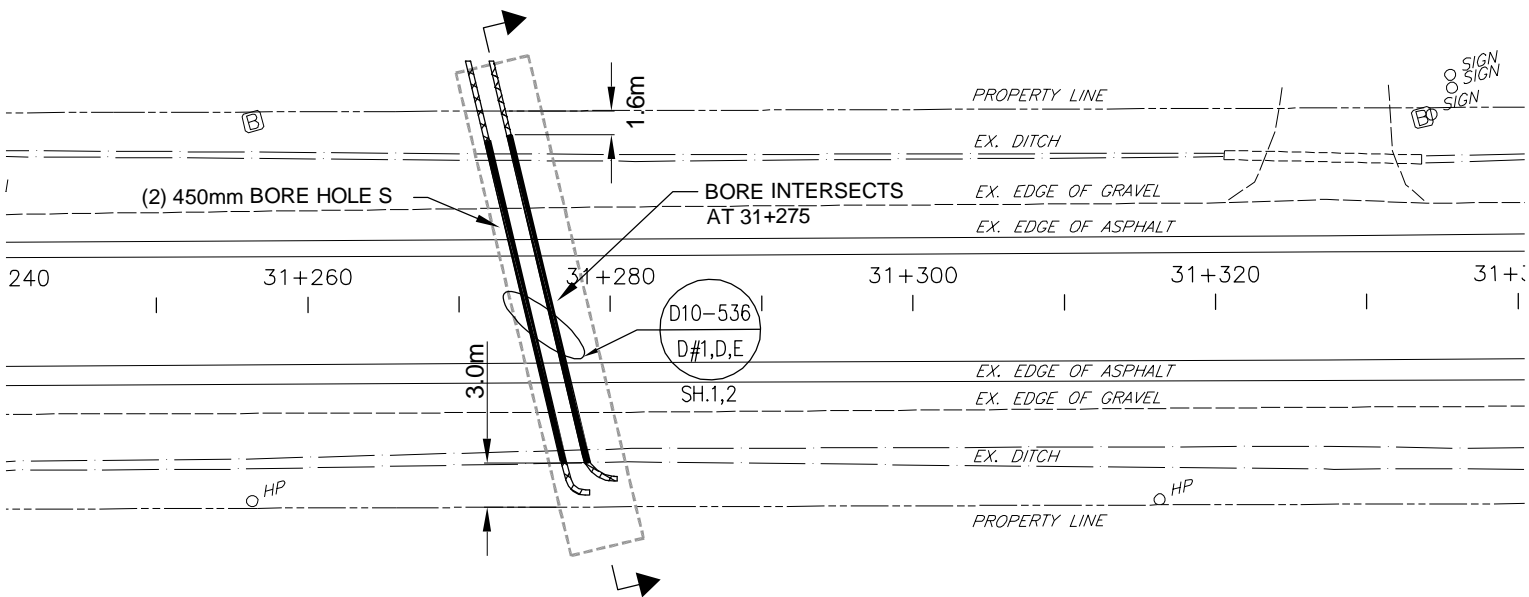
NEXTERA ENERGY CANADA, ULC JERICHO WIND ENERGY CENTRE CABLE CROSSING ARKONA ROAD AT TURBINE 108	
SCALE: AS NOTED	DATE: OCTOBER 2013

DWG. No.
LC-141-CROSSING

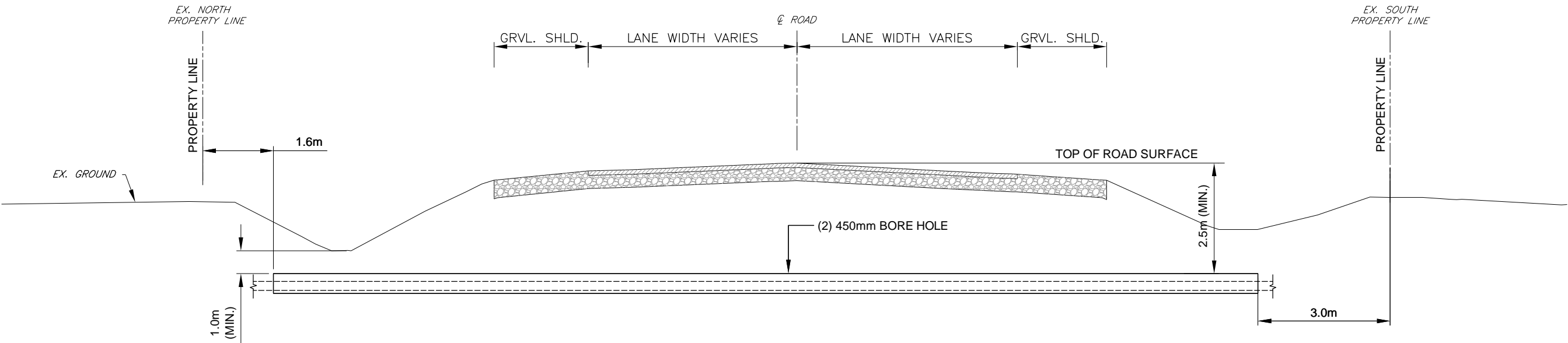
C.C. TATHAM & ASSOCIATES Ltd.
FILE NO. 412414-1



TOWNSEND LINE



HORZ. 1:500



HORZ. 1:100

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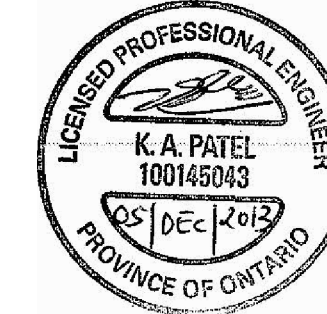
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A	INFORMATION FOR PERMITTING	06/11/13	K.P.

NEXTERA ENERGY CANADA, ULC
JERICO WIND ENERGY CENTRE
CABLE CROSSING
TOWNSEND LINE AT TURBINE 38

SCALE: AS NOTED

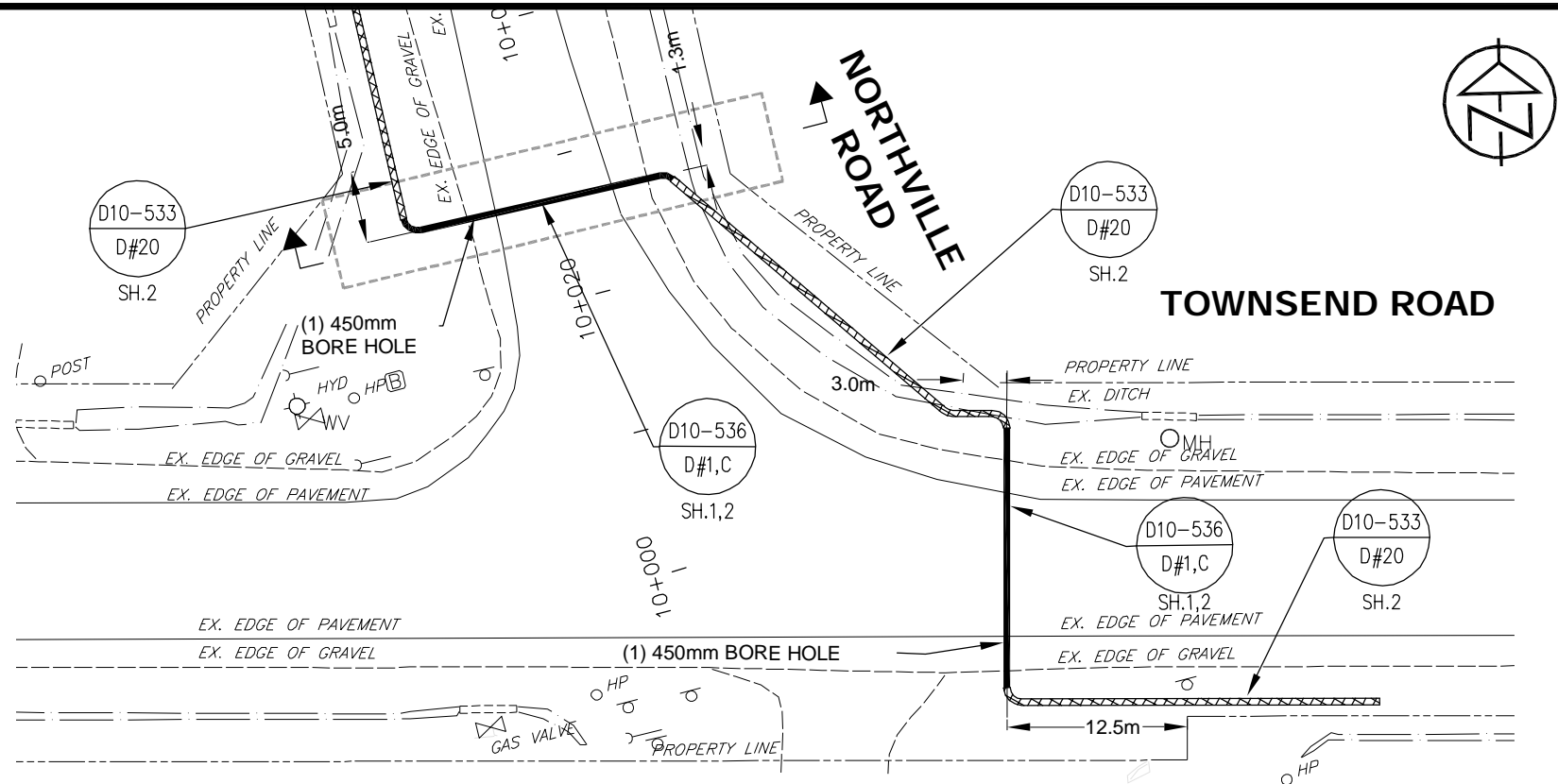
DATE: OCTOBER 2013

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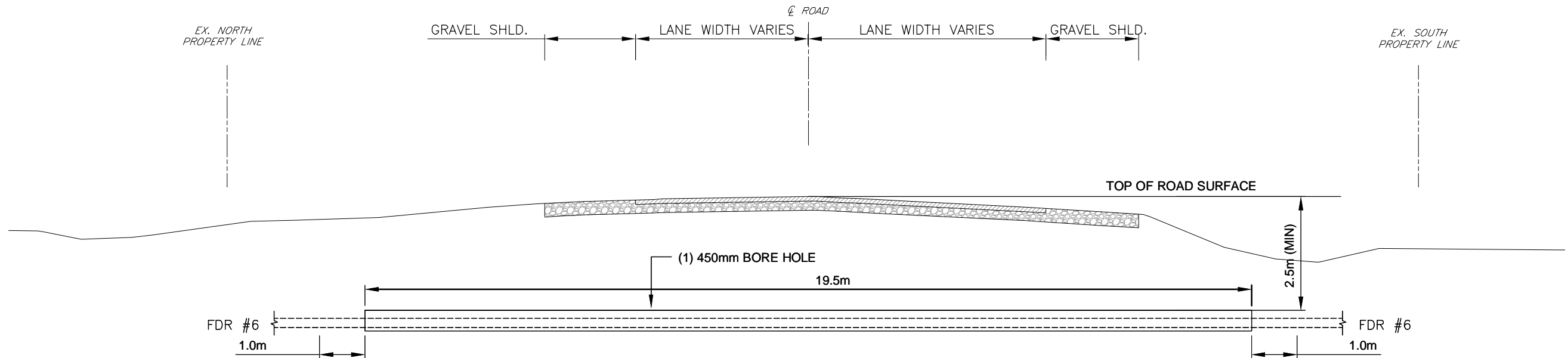
Collingwood Bracebridge Orillia Barrie

DWG. No.
LC-142-CROSSING

C.C. TATHAM & ASSOCIATES Ltd.
FILE NO. 412414-1



HORZ. 1:500



HORZ. 1:100

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NEXTERA ENERGY CANADA, ULC JERICHO WIND ENERGY CENTRE CABLE CROSSING NORTHVILLE ROAD AT TOWNSEND LINE	
SCALE: AS NOTED	DATE: OCTOBER 2013

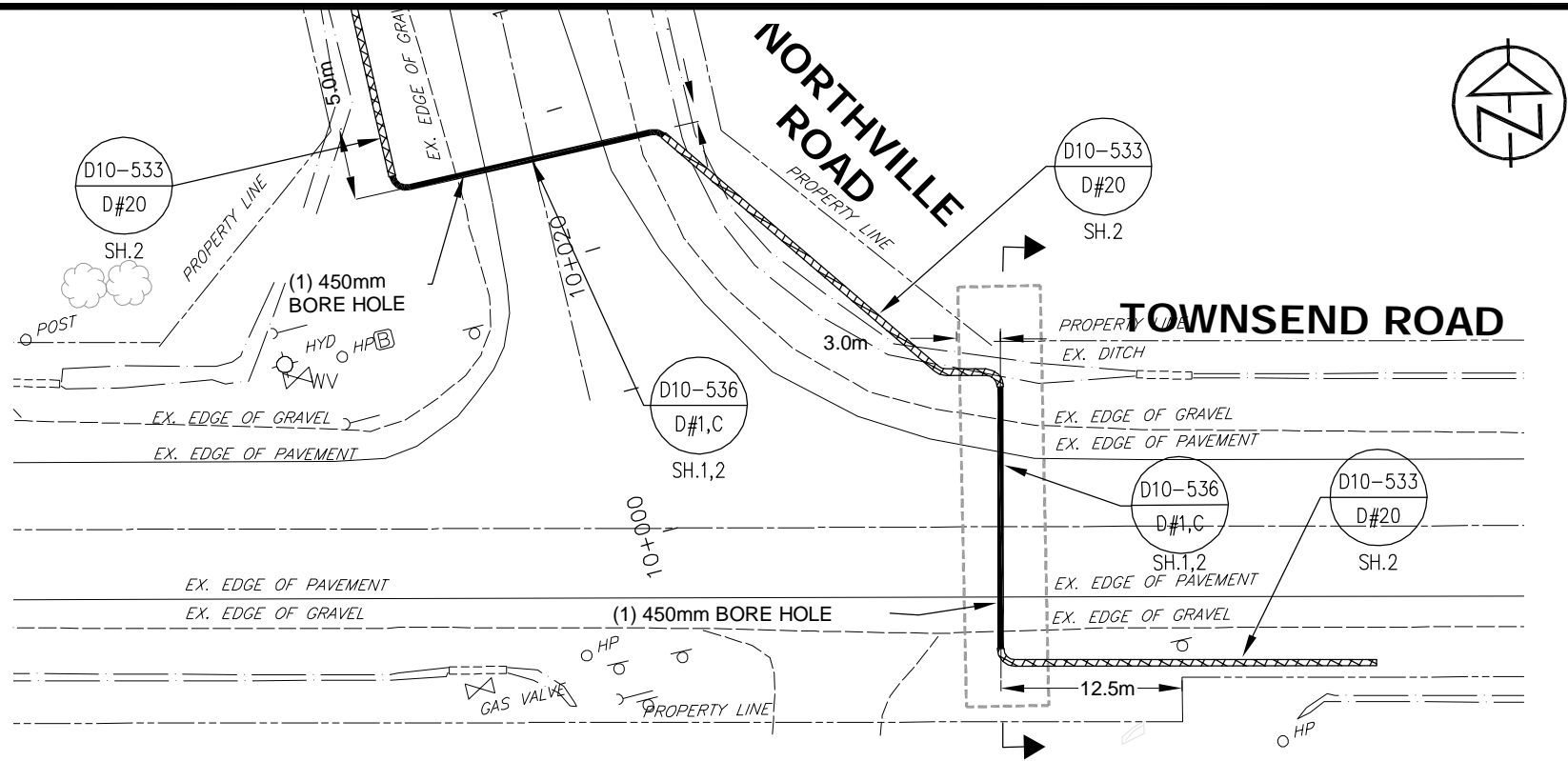


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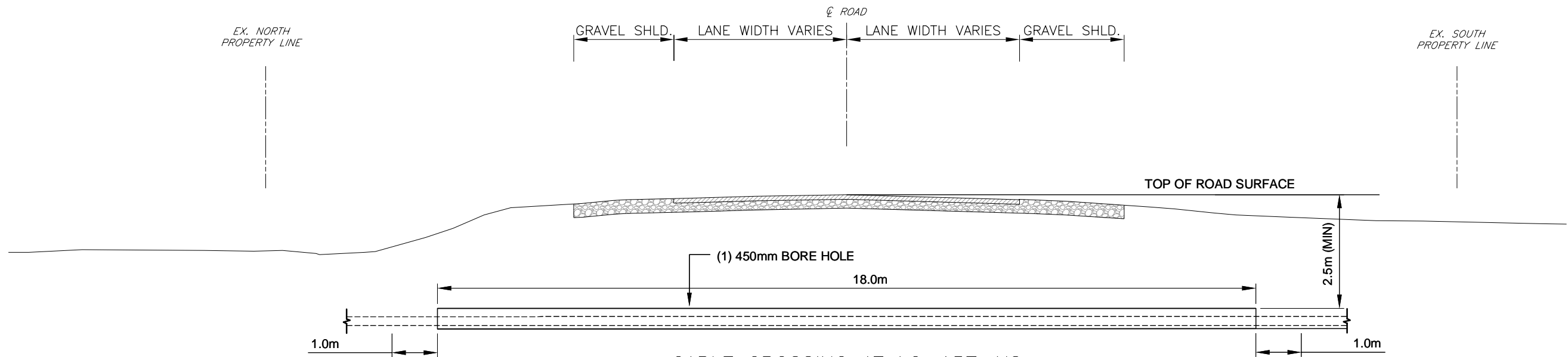
Collingwood Bracebridge Orillia Barrie

DWG. No.
LC-156-CROSSING

C.C. TATHAM & ASSOCIATES Ltd.
FILE NO. 412414-1



HORZ. 1:500



CABLE CROSSING AT LC-157-NS
NORTHVILLE ROAD AT TOWNSEND LINE

SCALE: 1:100

HORZ. 1:100

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NEXTERA ENERGY CANADA, ULC
JERICHO WIND ENERGY CENTRE

CABLE CROSSING
NORTHVILLE ROAD AT TOWNSEND LINE WEST

SCALE: AS NOTED

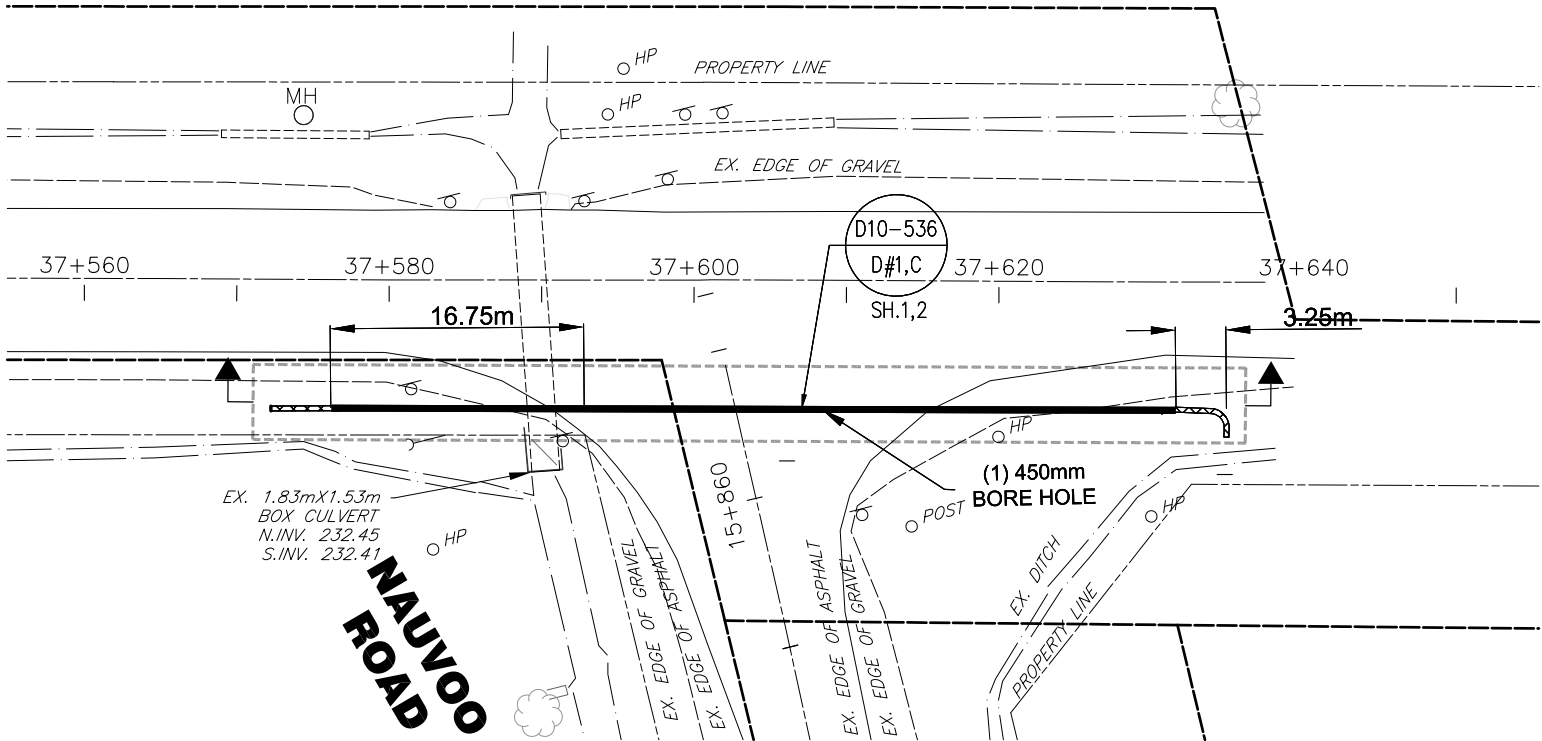
DATE: OCTOBER 2013

DWG. No.

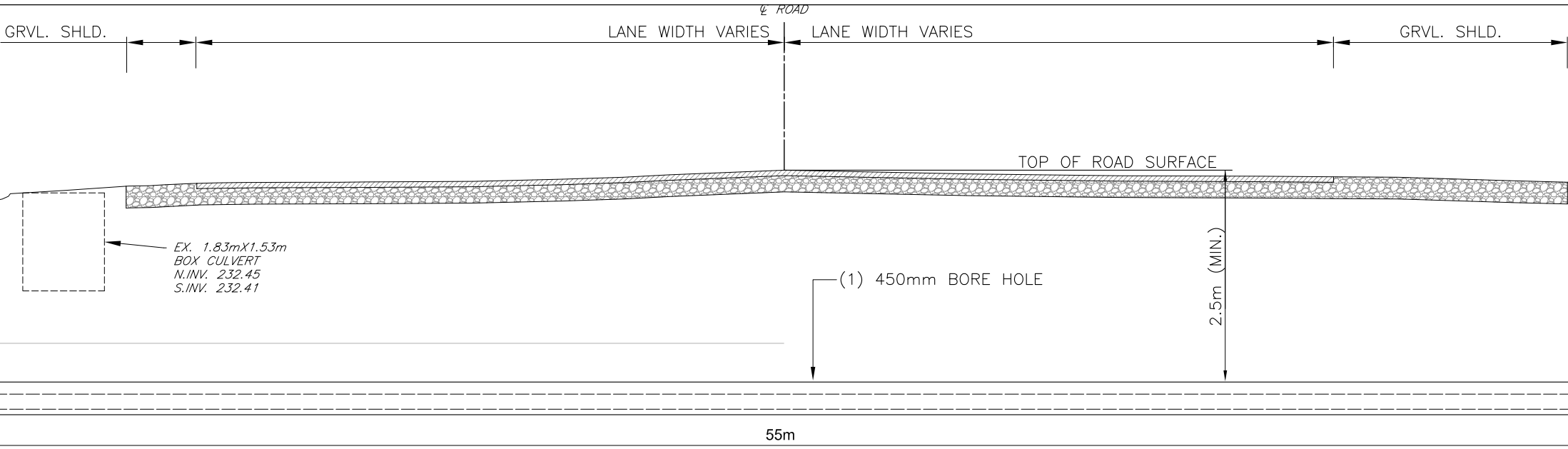
LC-157

C.C. TATHAM & ASSOCIATES Ltd.
FILE NO. 412414-1

TOWNSEND LINE



HORZ. 1:500



HORZ. 1:100

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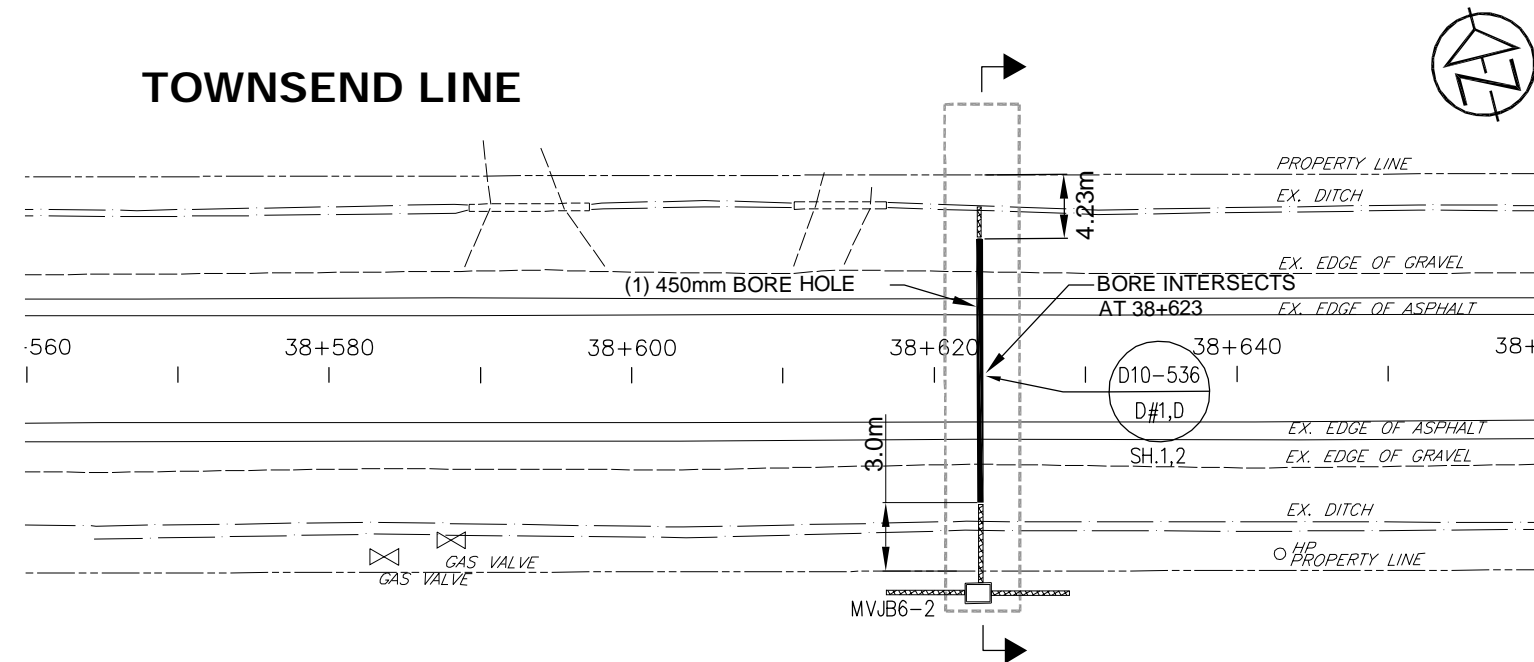
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NO.	REVISIONS	DATE	INITIAL

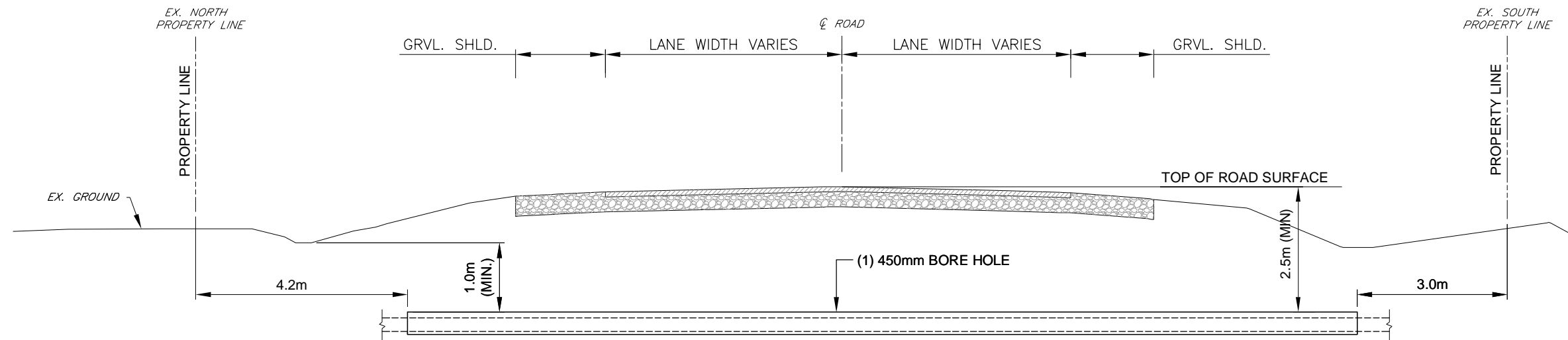
NEXTERA ENERGY CANADA, ULC JERICHO WIND ENERGY CENTRE CABLE CROSSING TOWNSEND LINE AT NAUVOO ROAD	
SCALE: AS NOTED	DATE: OCTOBER 2013

DWG. No.
LC-159-CROSSING

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FILE NO. 412414-1



HORZ. 1:500



HORZ. 1:100 VERT. 1:50

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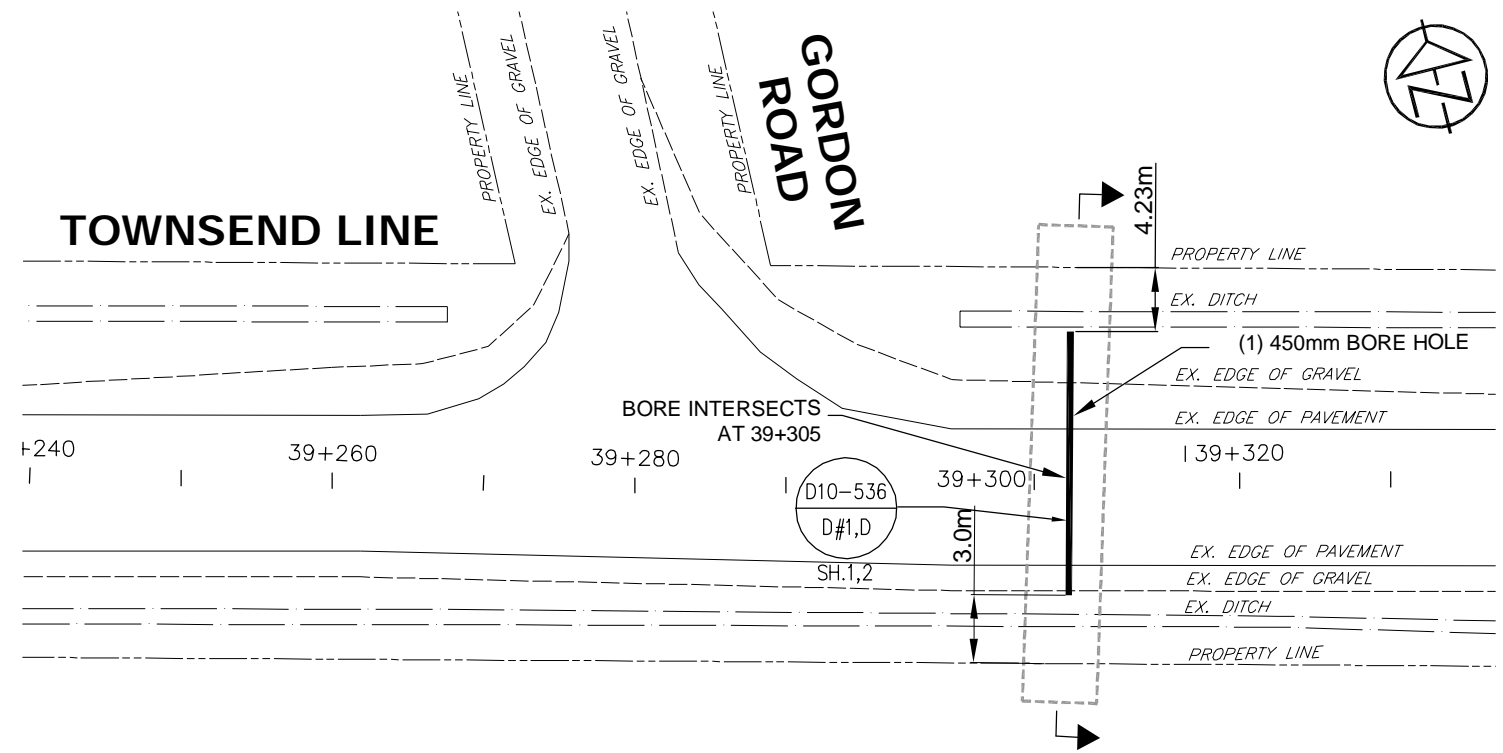
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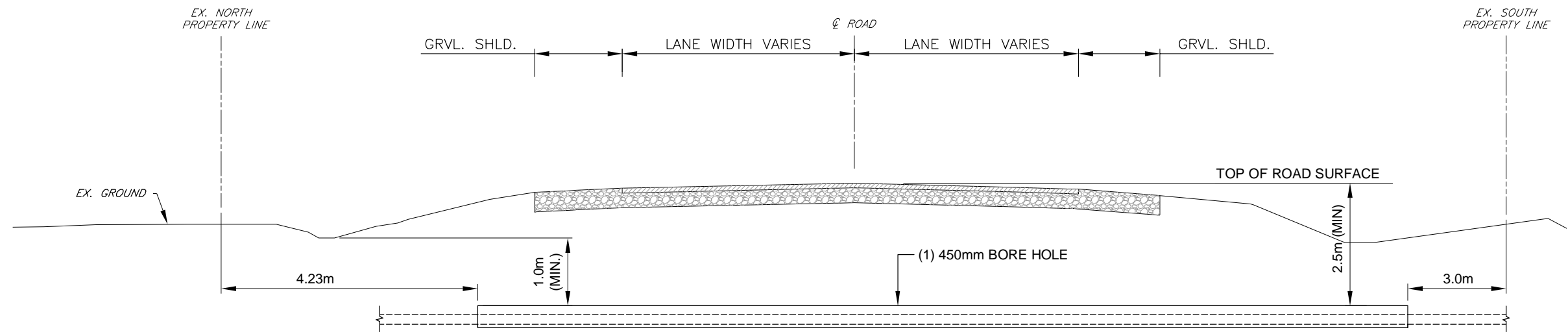
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A	INFORMATION FOR PERMITTING	06/11/13	K.P.

NEXTERA ENERGY CANADA, ULC JERICO WIND ENERGY CENTRE CABLE CROSSING TOWNSEND LINE AT TURBINE 63 & 64	
SCALE: AS NOTED	DATE: OCTOBER 2013

DWG. No. LC-177-CROSSING
C.C. TATHAM & ASSOCIATES Ltd. FILE NO. 412414-1



HORZ. 1:500



HORZ. 1:100 VERT. 1:50

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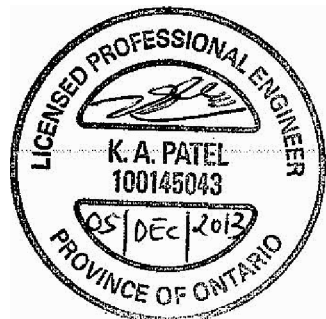
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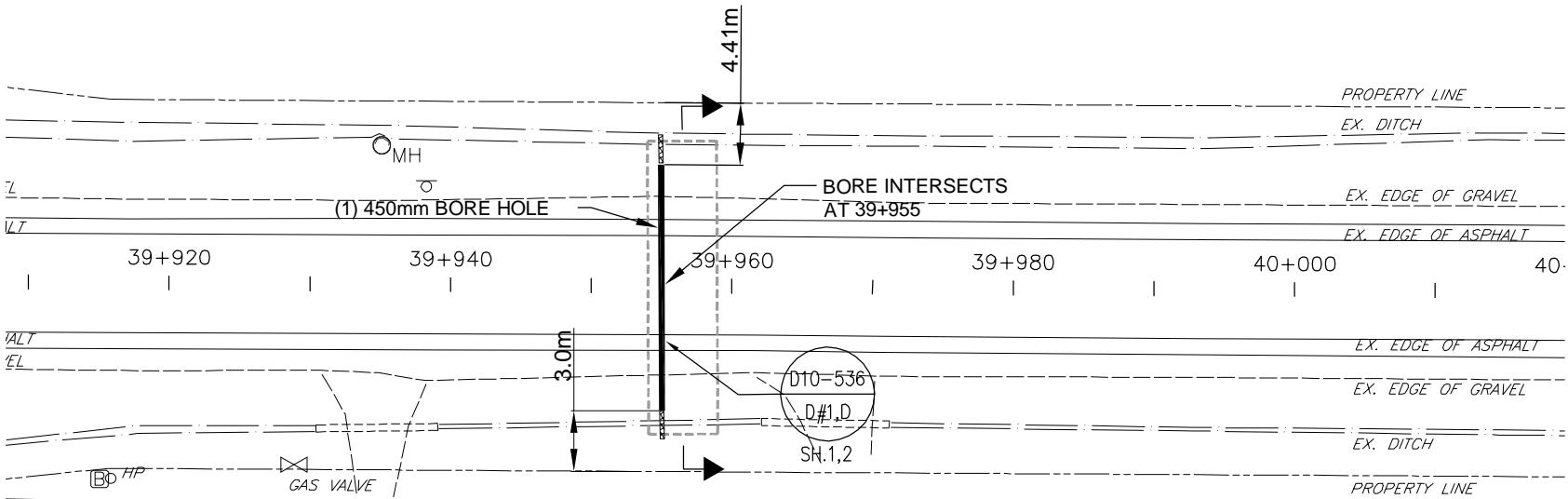
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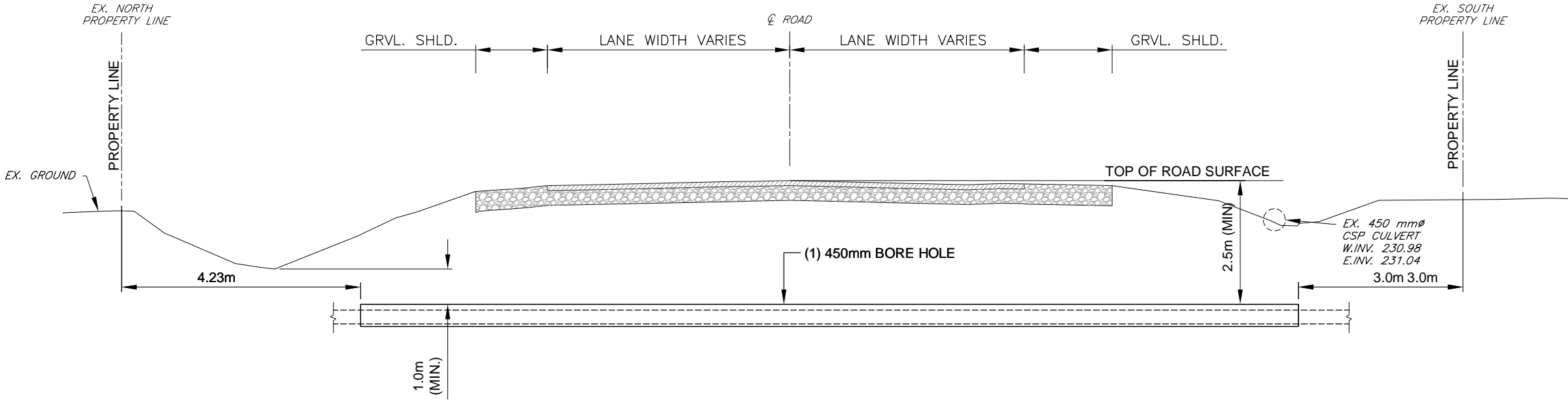
NEXTERA ENERGY CANADA, ULC JERICO WIND ENERGY CENTRE CABLE CROSSING TOWNSEND LINE AT GORDON ROAD	
SCALE: AS NOTED	DATE: OCTOBER 2013

DWG. No. LC-180-CROSSING
C.C. TATHAM & ASSOCIATES Ltd. FILE NO. 412414-1

TOWNSEND LINE



HORZ. 1:500



HORZ. 1:100 VERT. 1:50

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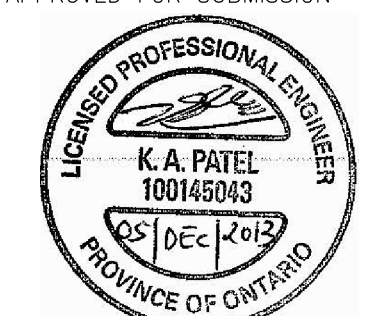
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B	RESUBMITTED TO COUNTY FOR PERMITTING	12/05/13	K.P.
A	INFORMATION FOR PERMITTING	06/11/13	K.P.

NEXTERA ENERGY CANADA, ULC JERICO WIND ENERGY CENTRE CABLE CROSSING TOWNSEND LINE AT TURBINE 94	
SCALE: AS NOTED	DATE: OCTOBER 2013

DWG. No. LC-184-CROSSING
C.C. TATHAM & ASSOCIATES Ltd. FILE NO. 412414-1