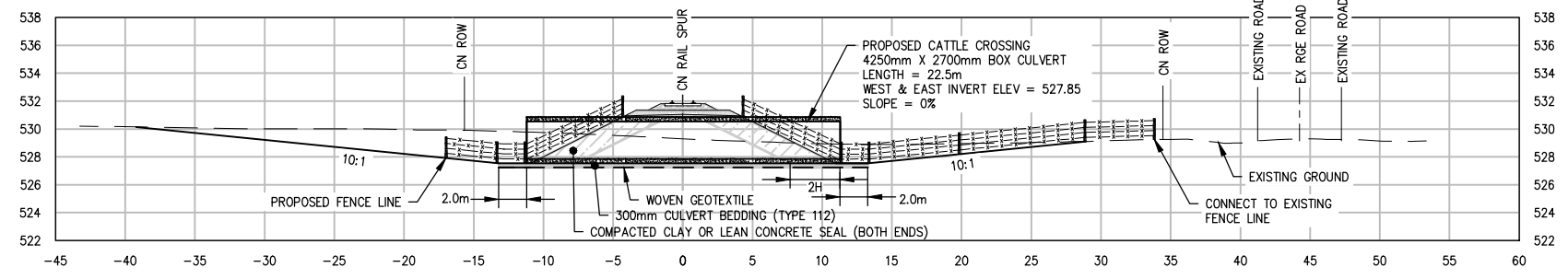
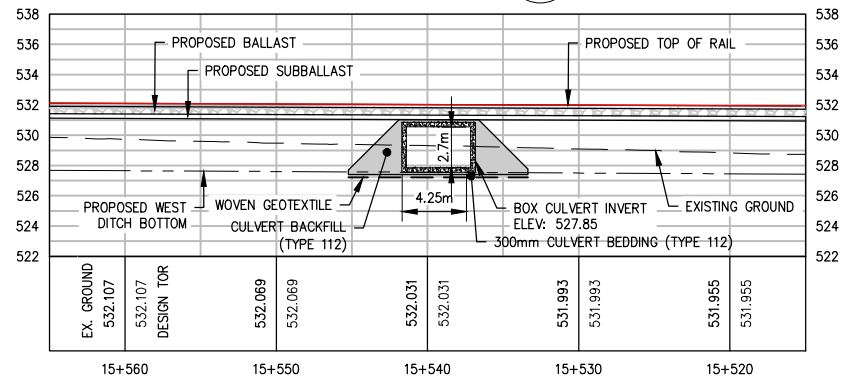


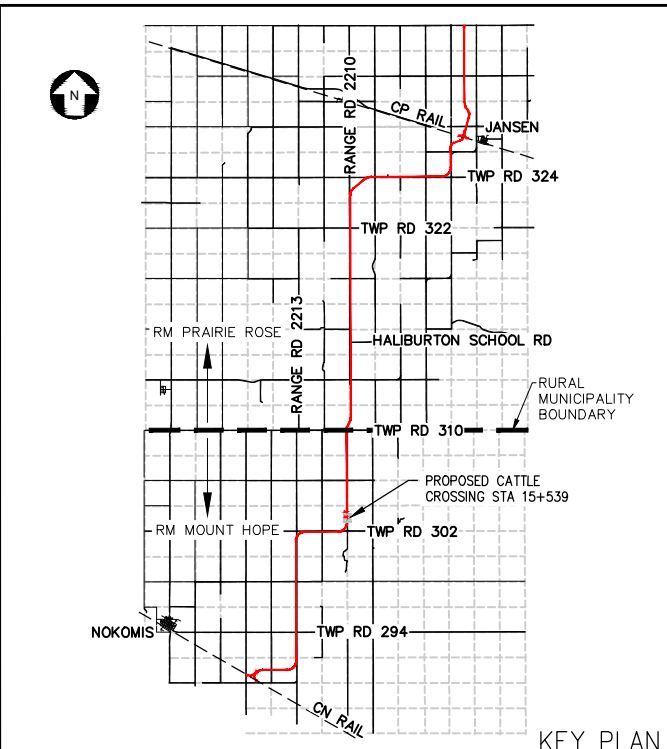
PLAN
SCALE 1:500



SECTION A
SCALE 1:500



SECTION B
SCALE 1:500



KEY PLAN

- NOTES:**
- COORDINATES ARE IN UTM (GRID), ZONE 13, NAD 83
 - CULVERT STRUCTURE SHALL BE CAPABLE OF WITHSTANDING COOPER'S E80 LOADING PLUS 50% IMPACT CALCULATED AS-PER AREMA MANUAL FOR RAIL, CHAPTER 15. PRIOR TO CONSTRUCTION, CONTRACTOR SHALL PROVIDE DOCUMENTATION TO THE ENGINEER VERIFYING THE CAPACITY OF THE PROPOSED CONCRETE BOX STRUCTURES. DOCUMENTATION SHALL BE AUTHENTICATED BY A PROFESSIONAL ENGINEER REGISTERED IN THE PROVINCE OF SASKATCHEWAN.
 - THE TOPSOIL SHALL BE REMOVED PRIOR TO COMMENCEMENT OF CONSTRUCTION. IF NONCOMPENET MATERIAL IS ENCOUNTERED BELOW THE TOPSOIL, SUB-EXCAVATION SHOULD BE PURSUED UNTIL A MAXIMUM DEPTH OF 750mm, AT WHICH DEPTH, WOVEN GEOTEXTILE, AS SPECIFIED IN THE "GEOSYNTHETICS FOR EARTHWORKS" SPECIFICATION (DOCUMENT NO. 40001-CL-SPE-60016.0), SHOULD BE INSTALLED BEFORE PLACEMENT OF COMPACTED COMMON FILL."
 - CROSSING DETAILS INCLUDING MATERIAL TYPE AND CULVERT ELEMENTS TO BE ADJUSTED TO SUIT SITE CONDITIONS.
 - CATTLE CROSSING CULVERT TO BE INSTALLED TO CN STANDARDS, R7A-80.2.2 AND JANSEN SITE DRAINAGE DOCUMENT, 40001-CL-SPE-60014.
 - LIVESTOCK UNDERPASSES TO BE DESIGNED TO SASKATCHEWAN HIGHWAYS AND INFRASTRUCTURE STANDARD WITH MINIMUM 1.9m VERTICAL DIMENSION.
 - BARBED WIRE FENCE TO BE INSTALLED TO CN RAIL FENCING AND GATES STANDARD, TS-2211.
 - RAILWAY SPUR LIDAR CONTROL CHECK TECHNICAL REPORT, REFER TO 40001-RL-RPT-60682.



Association of Professional Engineers & Geoscientists of Saskatchewan
CERTIFICATE OF AUTHORIZATION
 Hatch Corporation
 Number C1294
 Permission to Consent held by:
 Discipline: RAIL Sk. Reg. No. 41203 Signature: [Signature]

APPROVAL STATUS: ISSUED FOR TENDER

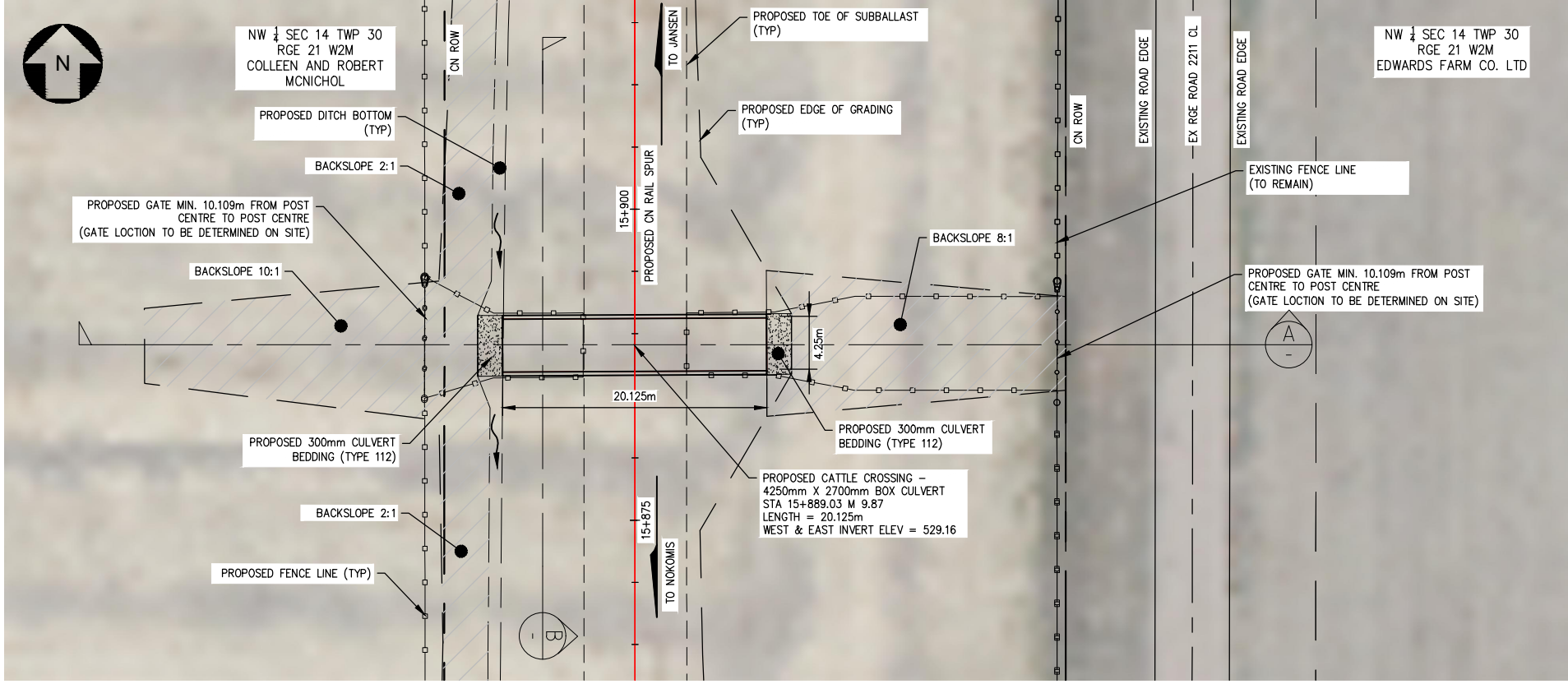
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ROLE	SIGNATURE/DATE	ROLE	SIGNATURE/DATE

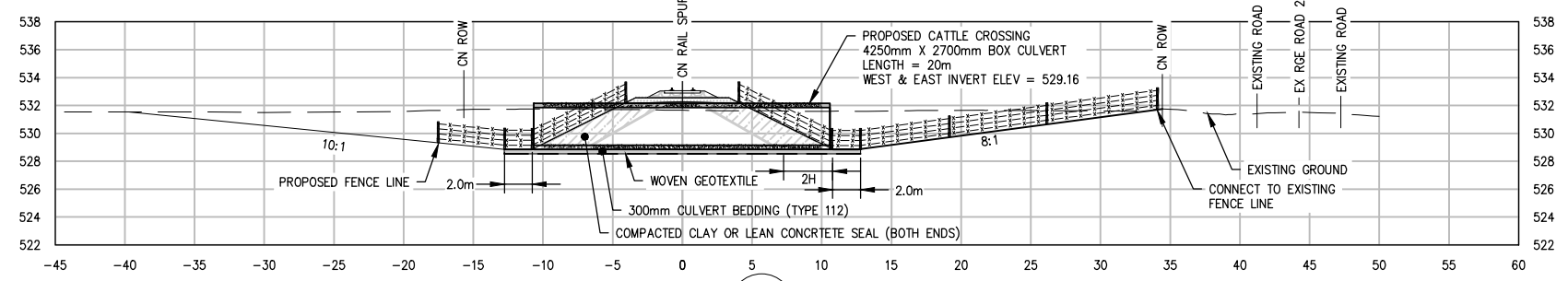
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A	ISSUED FOR REVIEW	MM	DX	LG	LG	2021-12-22
REV	REVISION REFERENCE	DES	DRN	CHK	APP	BHP DATE

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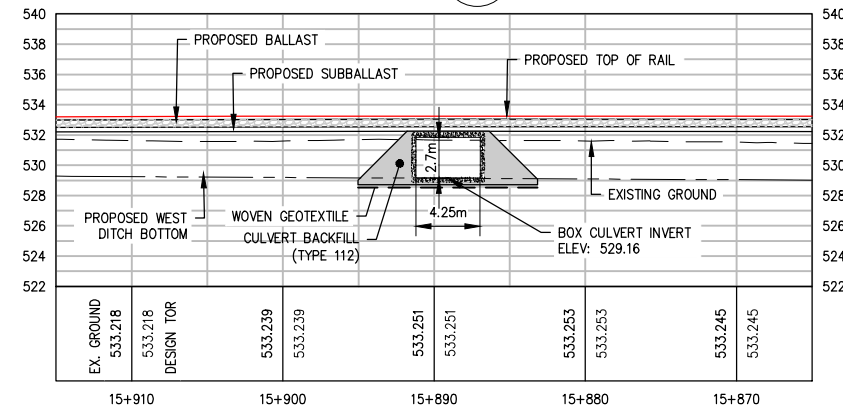
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JANSEN STAGE 1 OFFSITE RAIL INFRASTRUCTURE, CN RAIL SPUR COLLEEN AND ROBERT MCNICHOL - CATTLE CROSSING - STA 15+539 DRAWING			
PROJECT NO. 40001	AREA 322	FACILITY 000	
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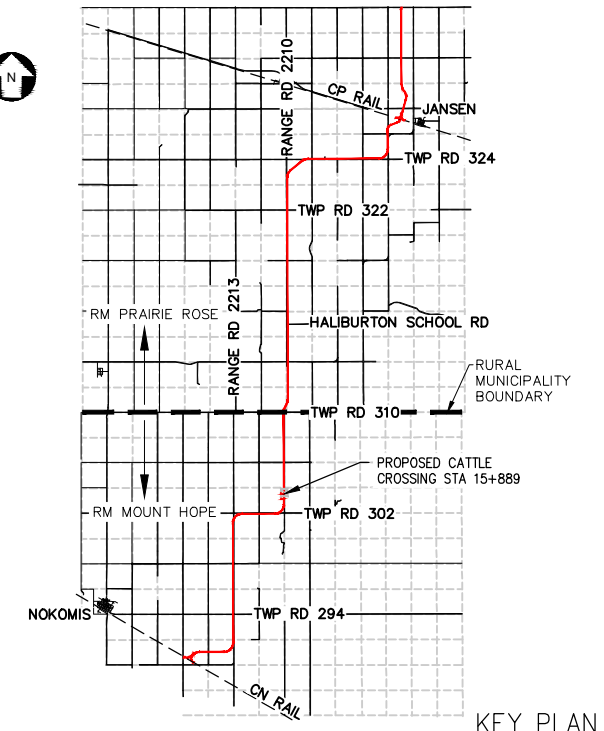
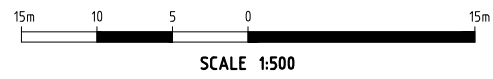
PLAN
SCALE 1:500



SECTION A
SCALE 1:500



SECTION B
SCALE 1:500



KEY PLAN

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ROLE	SIGNATURE/DATE	ROLE	SIGNATURE/DATE

REV	ISSUED FOR TENDER	DX	KF	PC	LG	2022-09-30	
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VENDOR DRG. NO.		REV	A
JANSEN STAGE 1 OFFSITE RAIL INFRASTRUCTURE, CN RAIL SPUR COLLEEN AND ROBERT MCNICHOL – CATTLE CROSSINGS – STA 15+889 DRAWING			
PROJECT NO. 40001	AREA 322	FACILITY 000	
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