

JANSEN CN SPUR ALTERNATIVE ROUTE OPTIONS

NOTES:

1. THIS DRAWING ILLUSTRATES ALTERNATE POTENTIAL CORRIDORS CONSIDERED DURING THE ROUTE SELECTION OF THE JANSEN CN SPUR TRACK. VERSIONS OF THIS PLAN HAVE BEEN SHOWN AT VARIOUS CONSULTATION MEETINGS DURING THE DEVELOPMENT OF THE SPUR ALIGNMENT.
2. POTENTIAL ENVIRONMENTAL CONSIDERATIONS ARE SHOWN BASED ON ROUTE SELECTION STAGE REVIEW.



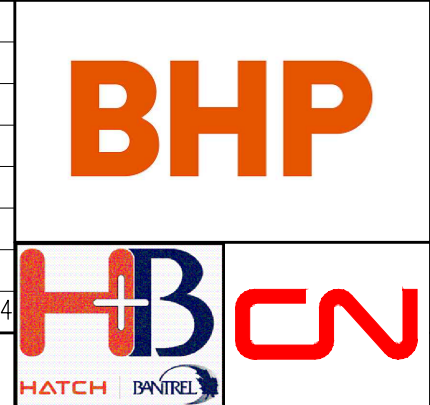
Association of Professional Engineers & Geoscientists of Saskatchewan
CERTIFICATE OF AUTHORIZATION
 Hatch Corporation
 Number C1294
 Permission to Consult held by:
 Discipline: RAIL Sk. Reg. No. 41203 Signature: [Signature]

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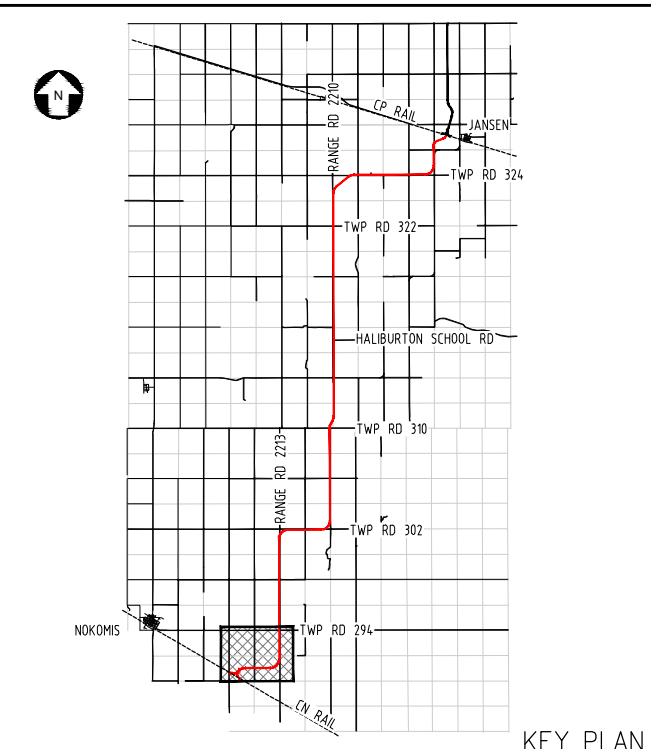
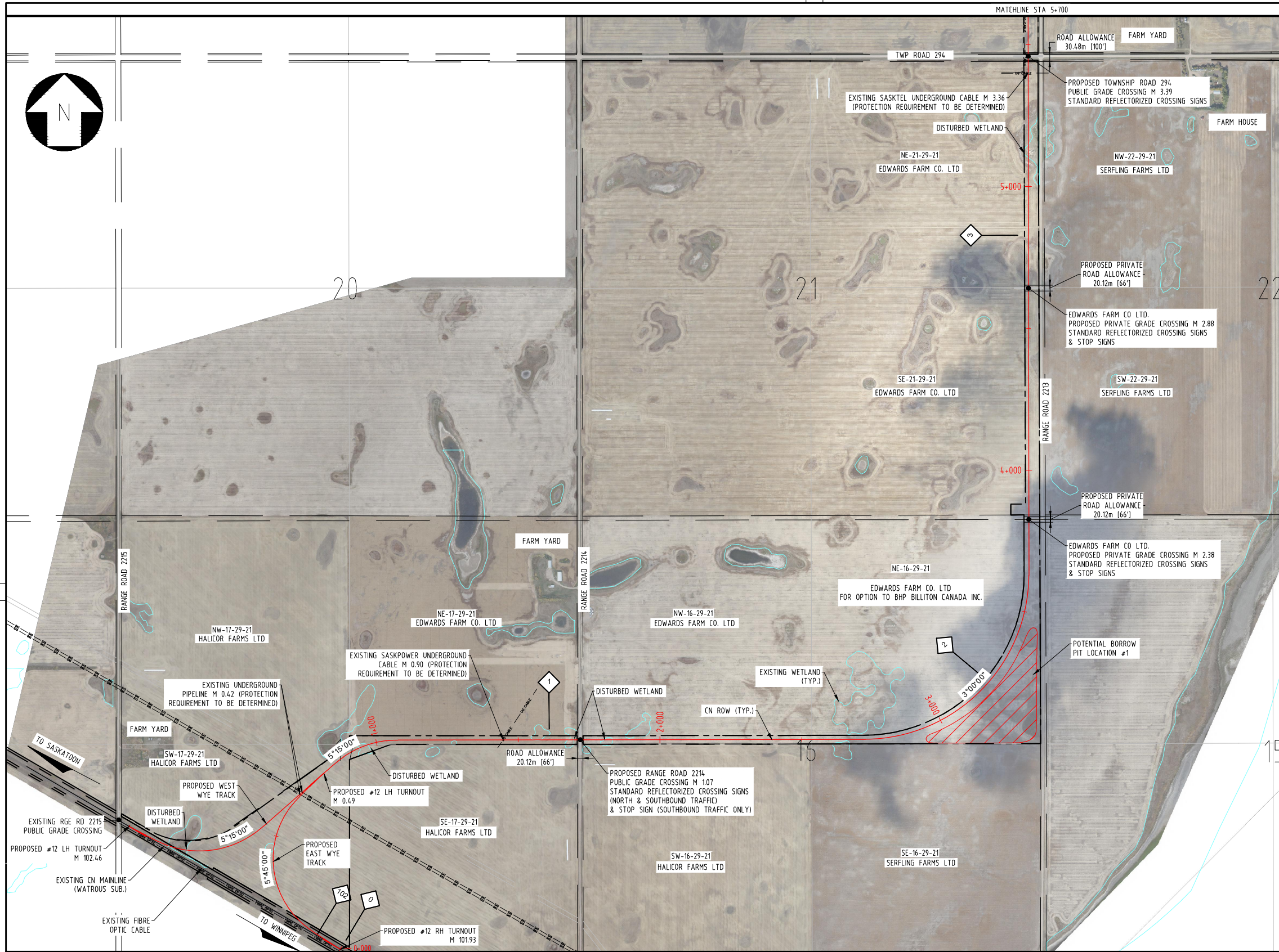
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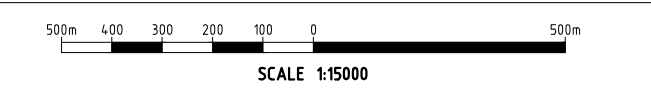


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VENDOR DRG. NO. H375000-322000-224-270-0261			REV	A
JANSEN STAGE 1 OFFSITE RAIL INFRASTRUCTURE, CN RAIL SPUR ALTERNATIVE ROUTE OPTIONS GENERAL ARRANGEMENT				
PROJECT NO. 40001	AREA 322	FACILITY 000		
SCALE 1:200000	A3	DRG. NO. 40001-RL-DWG-61255	REV	A



- NOTES:**
- EXISTING AND FUTURE LAND-USE AND ZONING AROUND THE PROPOSED RAIL INFRASTRUCTURE IS AGRICULTURAL LAND.
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PROFESSIONAL ENGINEER
 L.D. GILBEY
 MEMBER 41203
 2022-Aug-16
 SK. REG. NO. 41203

Association of Professional Engineers & Geoscientists of Saskatchewan
CERTIFICATE OF AUTHORIZATION
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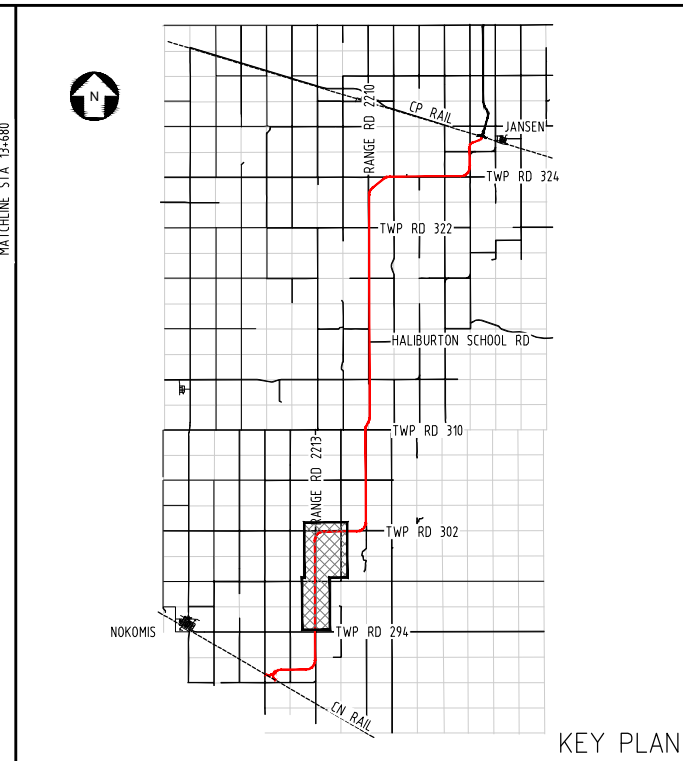
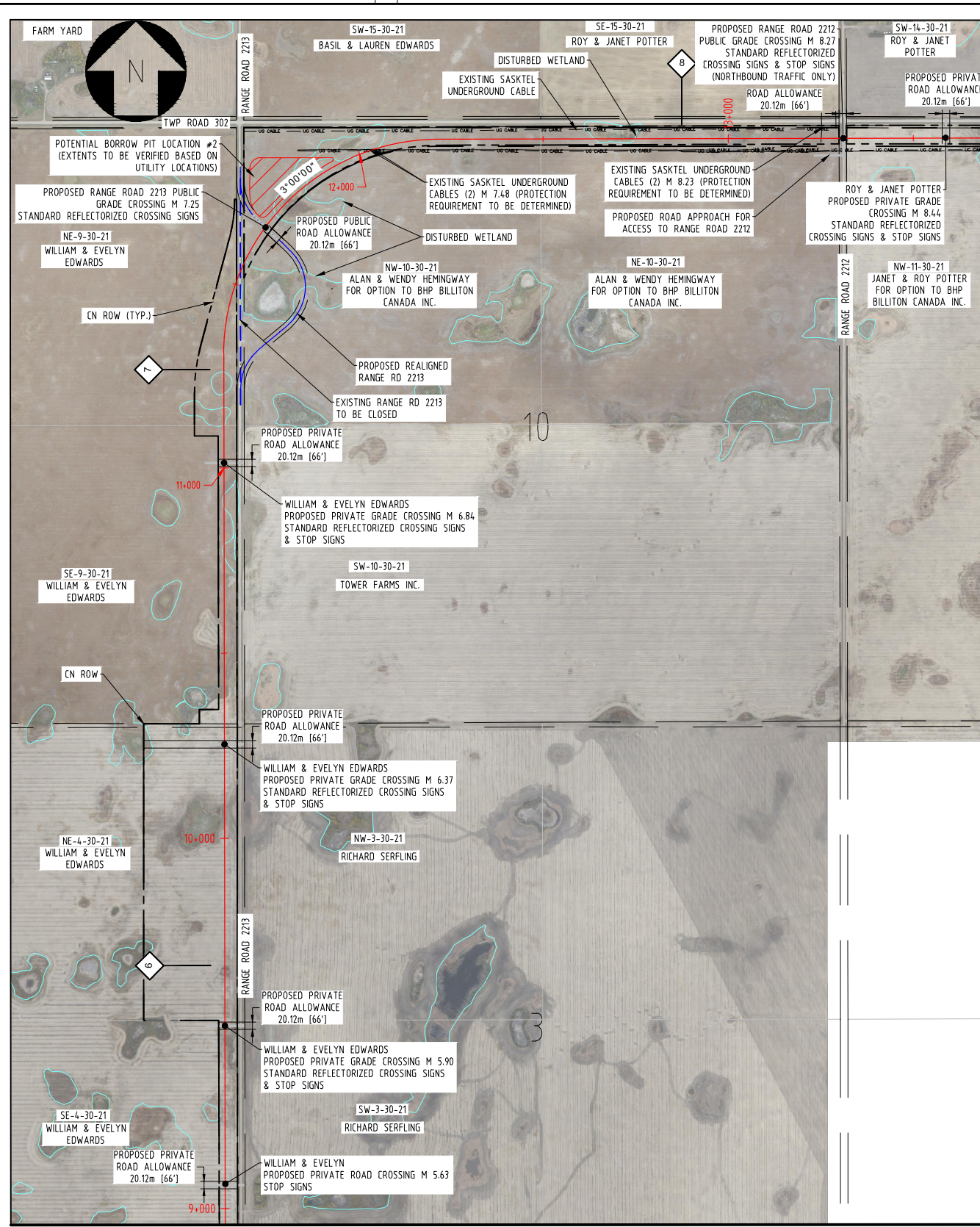
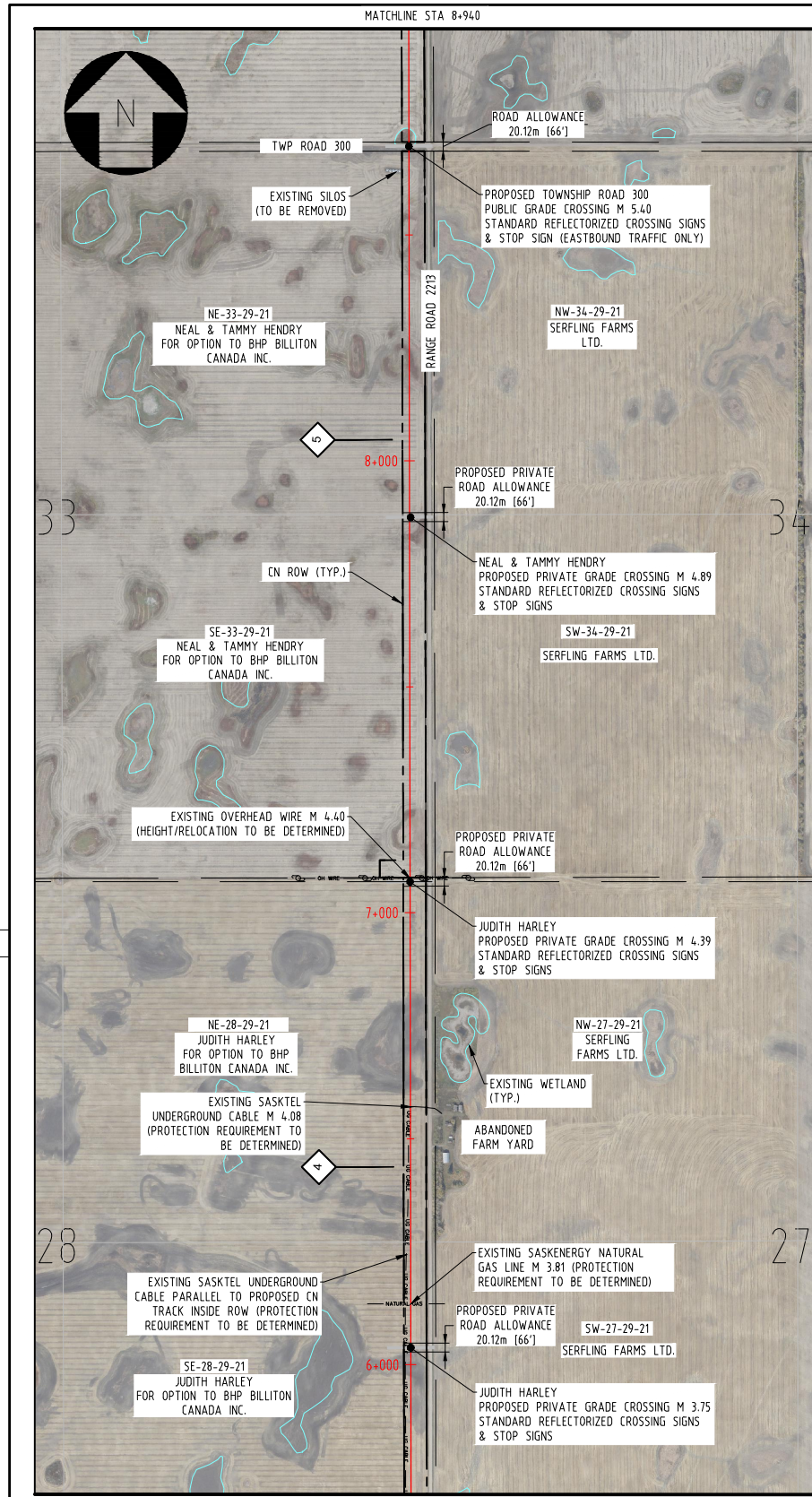
VENDOR DRG. NO.

JANSEN STAGE 1
OFFSITE RAIL INFRASTRUCTURE, CN RAIL SPUR
OVERVIEW
DRAWING - STA 0+000 TO 5+700

PROJECT NO. 40001 AREA 322 FACILITY 000

SCALE: 1:15000 A3 DRG. NO. 40001-RL-DWG-61256

REV	C
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500m 400 300 200 100 0 500m

SCALE 1:15000

Association of Professional Engineers & Geoscientists of Saskatchewan

CERTIFICATE OF AUTHORIZATION

Hatch Corporation

Number C1294

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VENDOR DRG. NO.

JANSEN STAGE 1
OFFSITE RAIL INFRASTRUCTURE, CN RAIL SPUR
OVERVIEW
DRAWING - STA 5+700 TO 13+680

PROJECT NO. 40001

AREA 322

FACILITY 000

SCALE

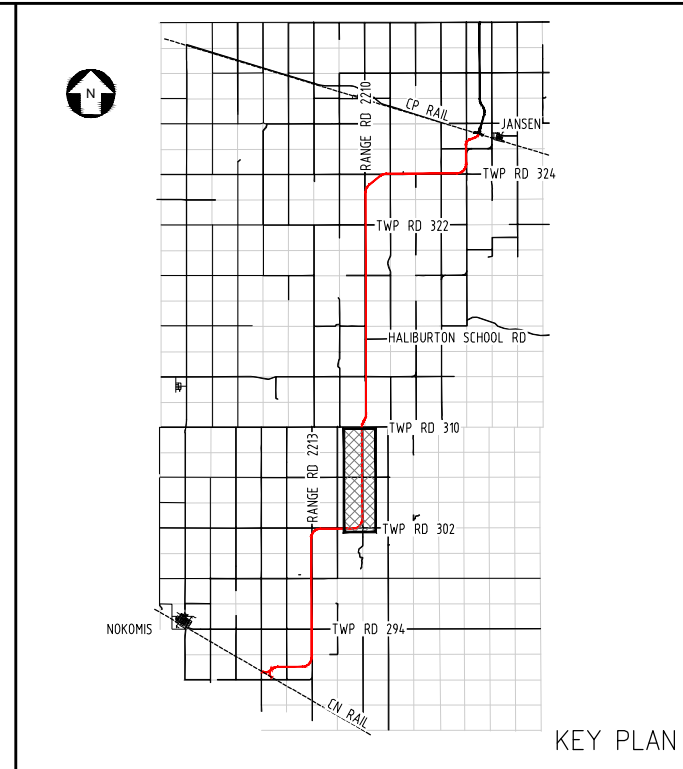
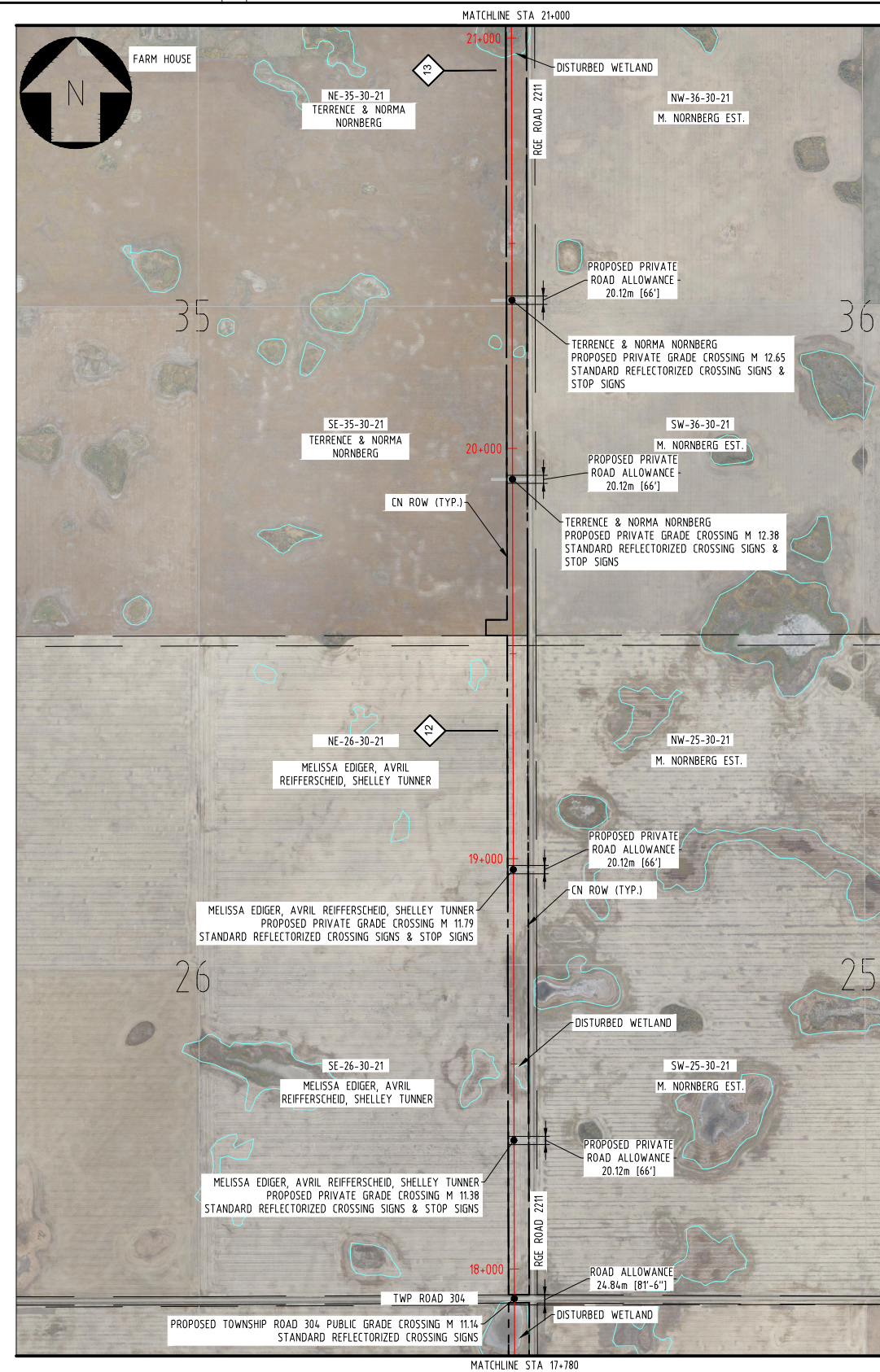
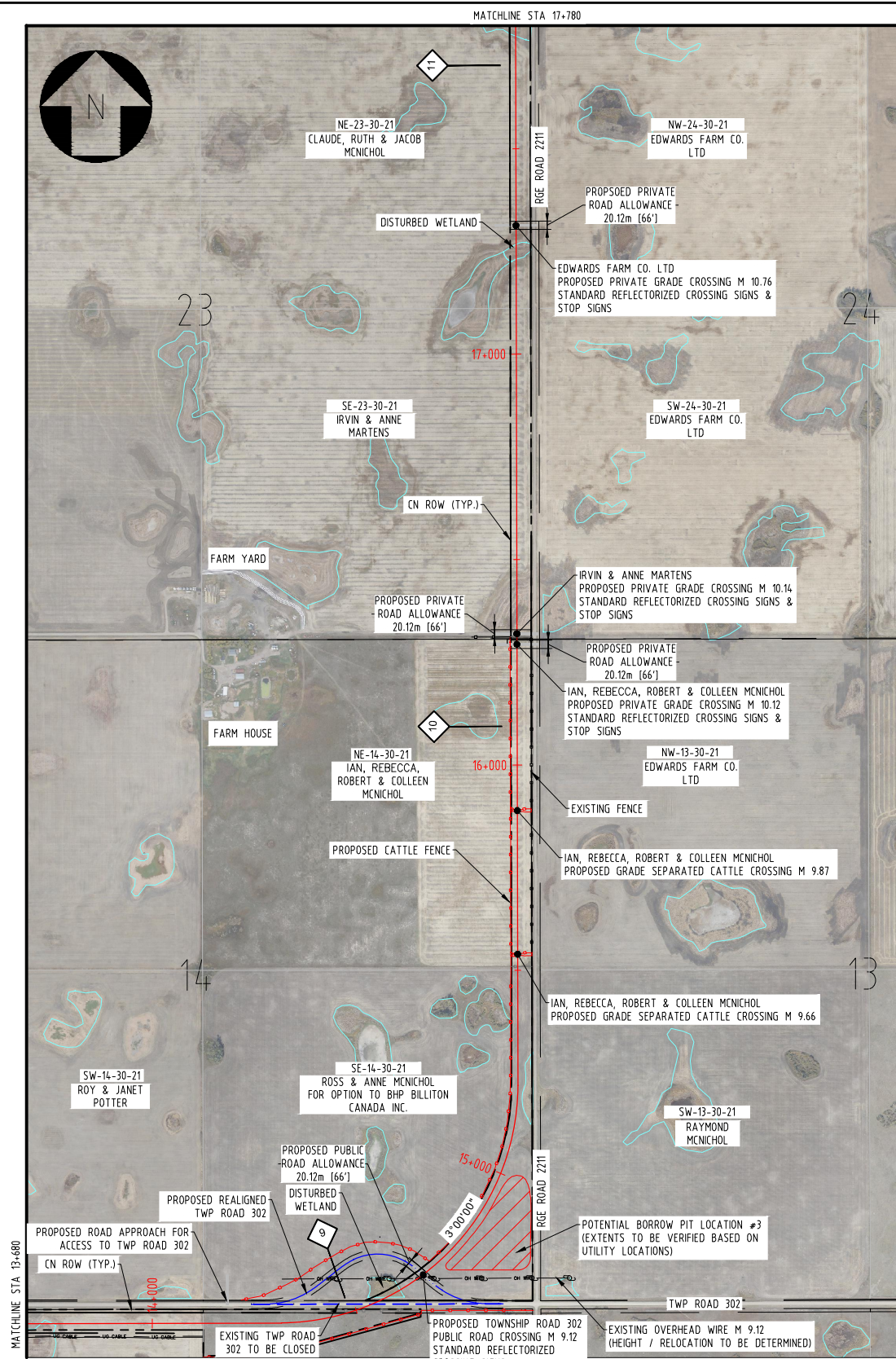
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A3

DRG. NO. 40001-RL-DWG-61257

REV

C



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500m 400 300 200 100 0 500m
SCALE 1:15000

PROFESSIONAL ENGINEER
 L.D. GILBEY
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 2022-Aug-16
 SASKATCHEWAN

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						DATE

BHP

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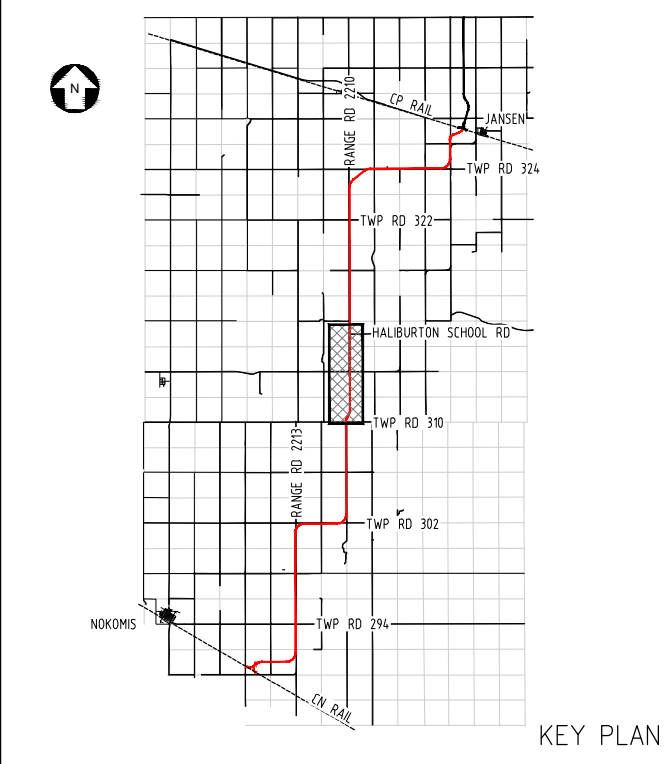
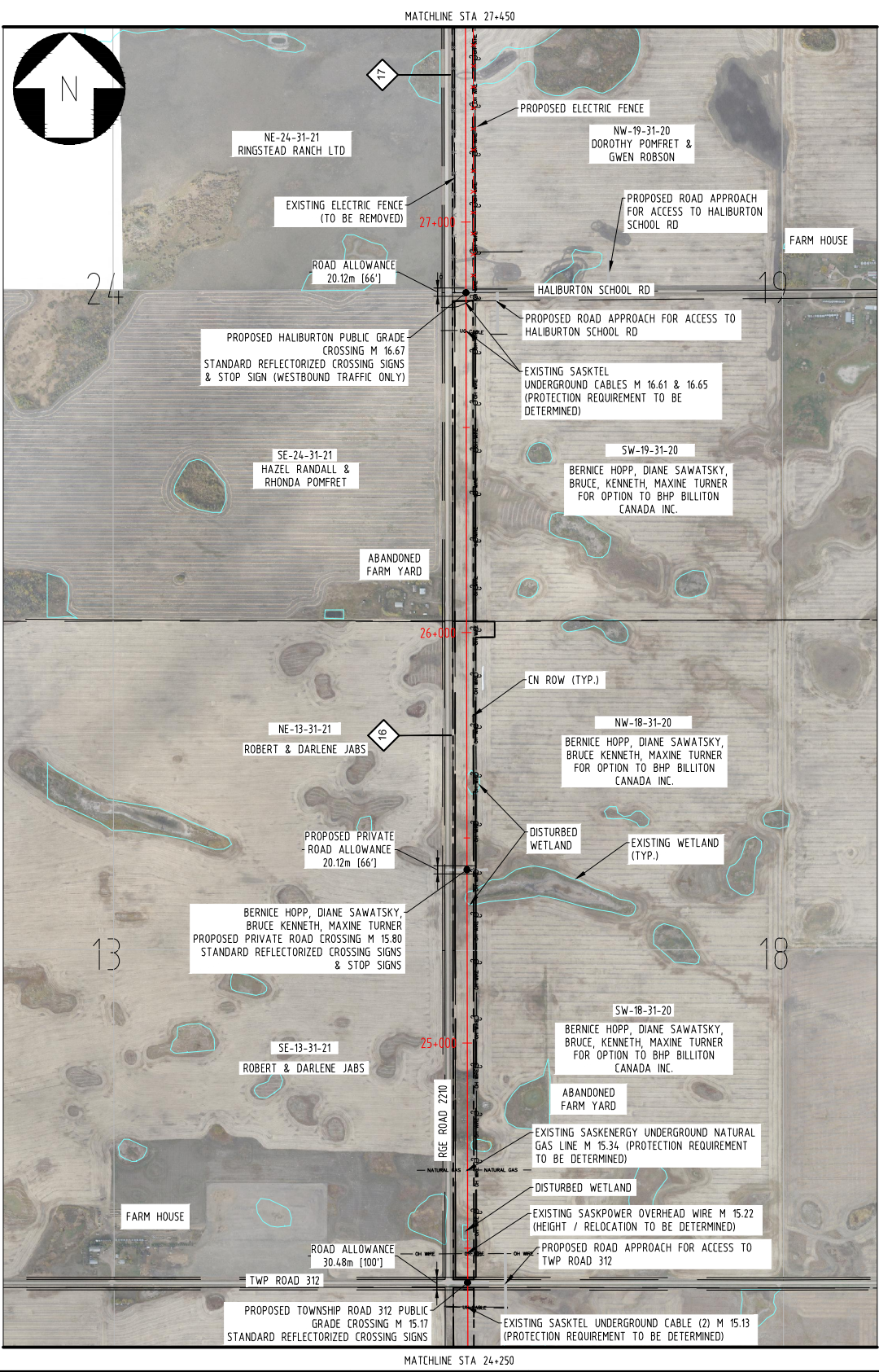
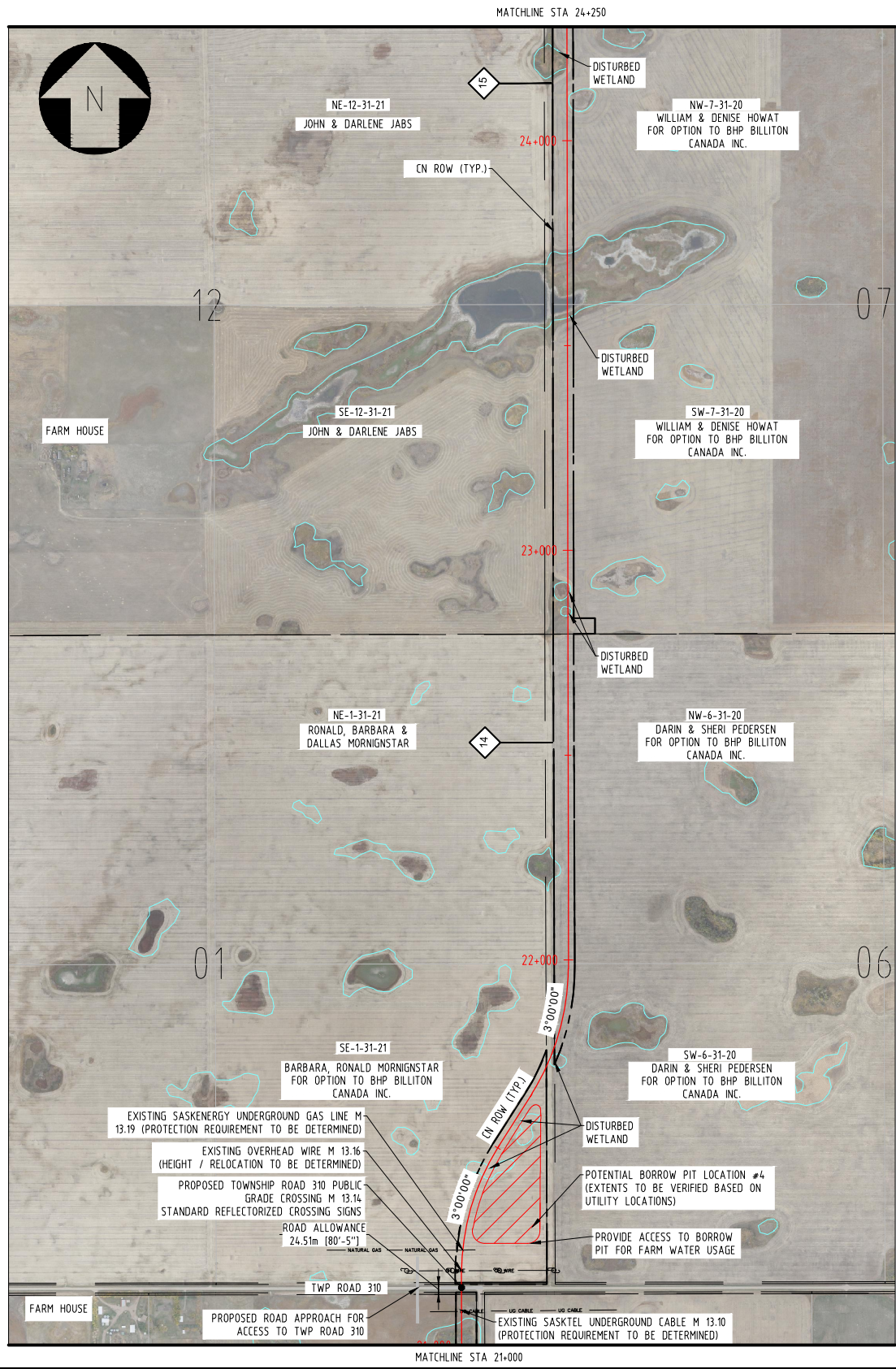
HATCH **BANTREL**

VENDOR DRG. NO.

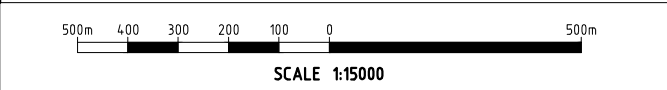
JANSEN STAGE 1
 OFFSITE RAIL INFRASTRUCTURE, CN RAIL SPUR
 OVERVIEW
 DRAWING - STA 13+680 TO 21+000

PROJECT NO. 40001 AREA 322 FACILITY 000

SCALE: 1:15000 A3 DRG. NO. 40001-RL-DWG-61258 REV C



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VENDOR DRG. NO.

JANSEN STAGE 1
OFFSITE RAIL INFRASTRUCTURE, CN RAIL SPUR
OVERVIEW
DRAWING - STA 21+000 TO 27+450

PROJECT NO. 40001

AREA 322

FACILITY 000

SCALE

1:15000

A3

DRG. NO. 40001-RL-DWG-61259

SCALE

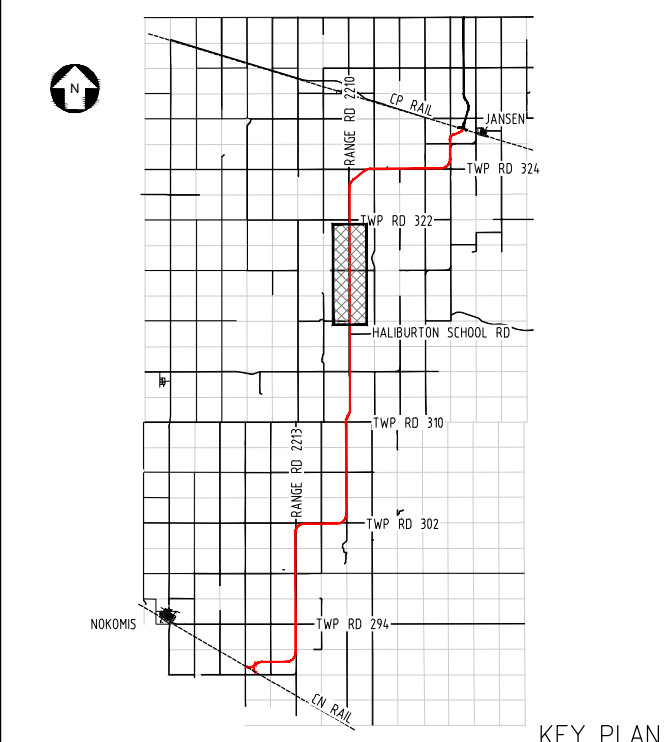
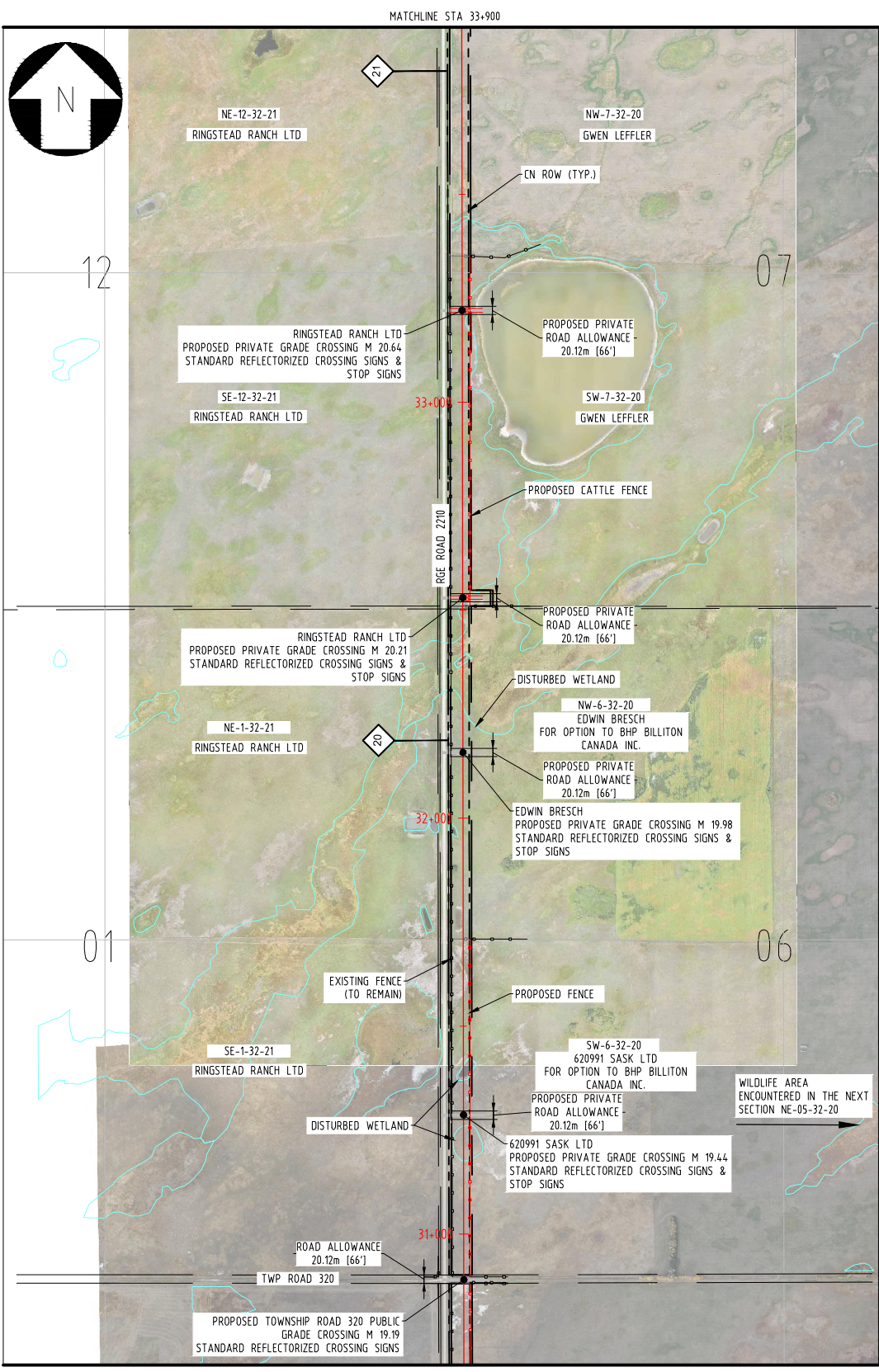
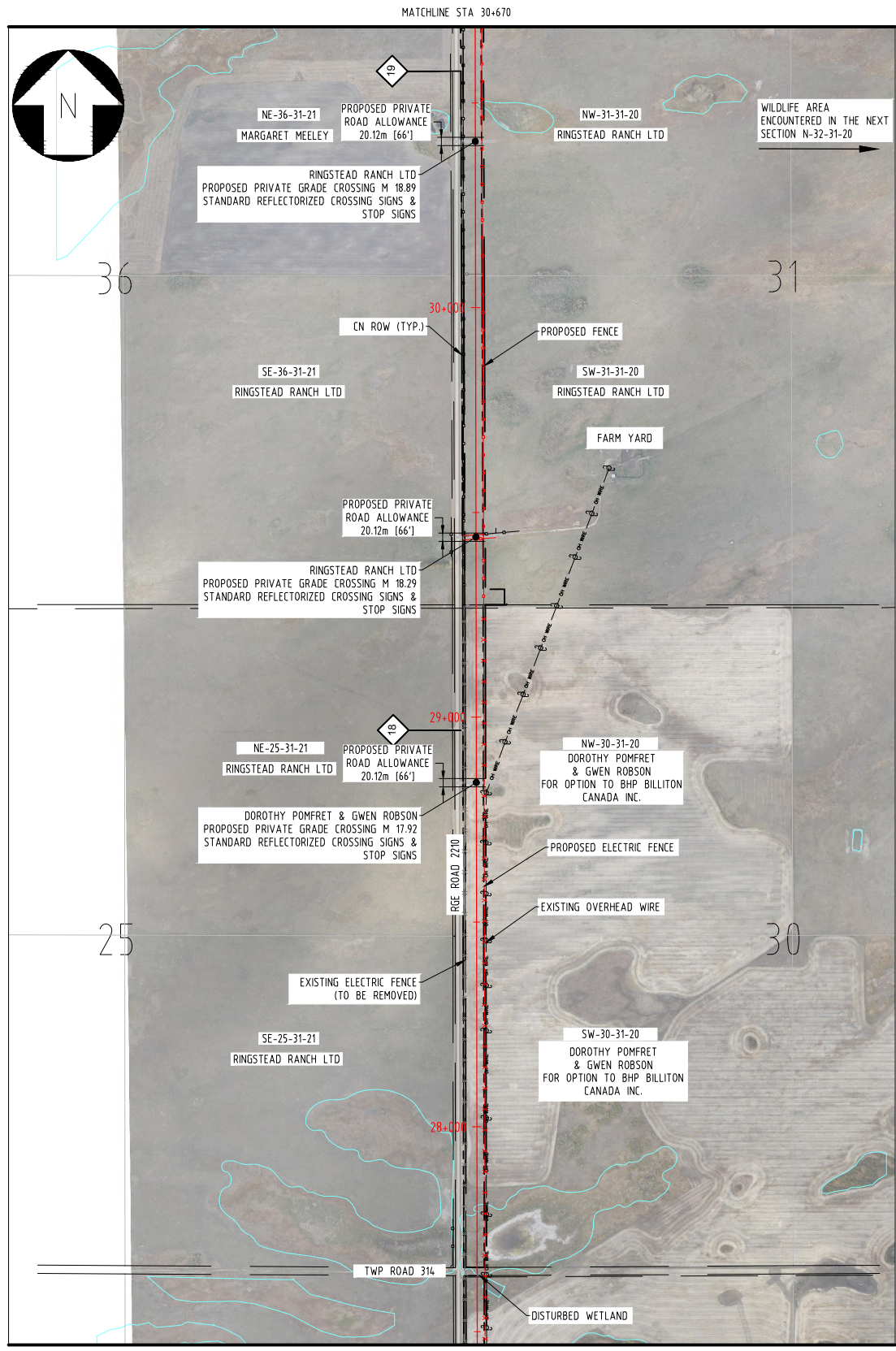
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A3

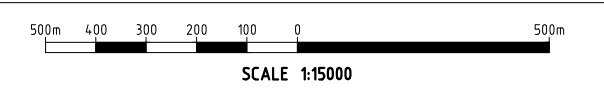
DRG. NO. 40001-RL-DWG-61259

REV

C



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PROFESSIONAL ENGINEER
 L.D. GILBEY
 MEMBER #1203
 2002-Aug-16
 SK. REG. NO. 4103
 SASKATCHEWAN

Association of Professional Engineers & Geoscientists of Saskatchewan
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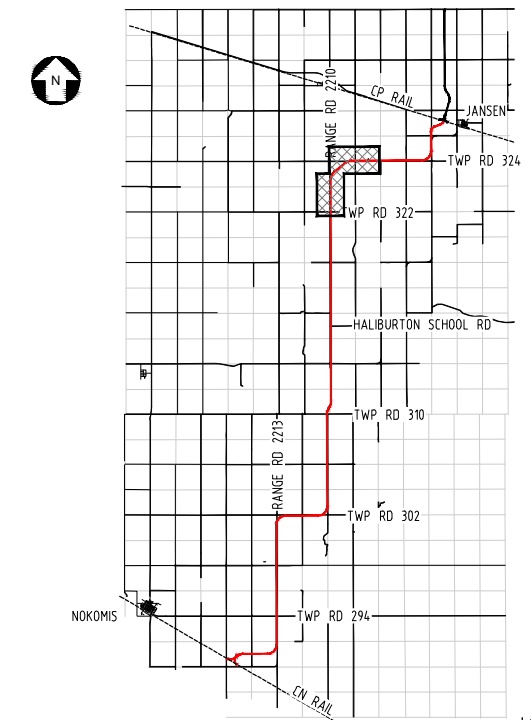
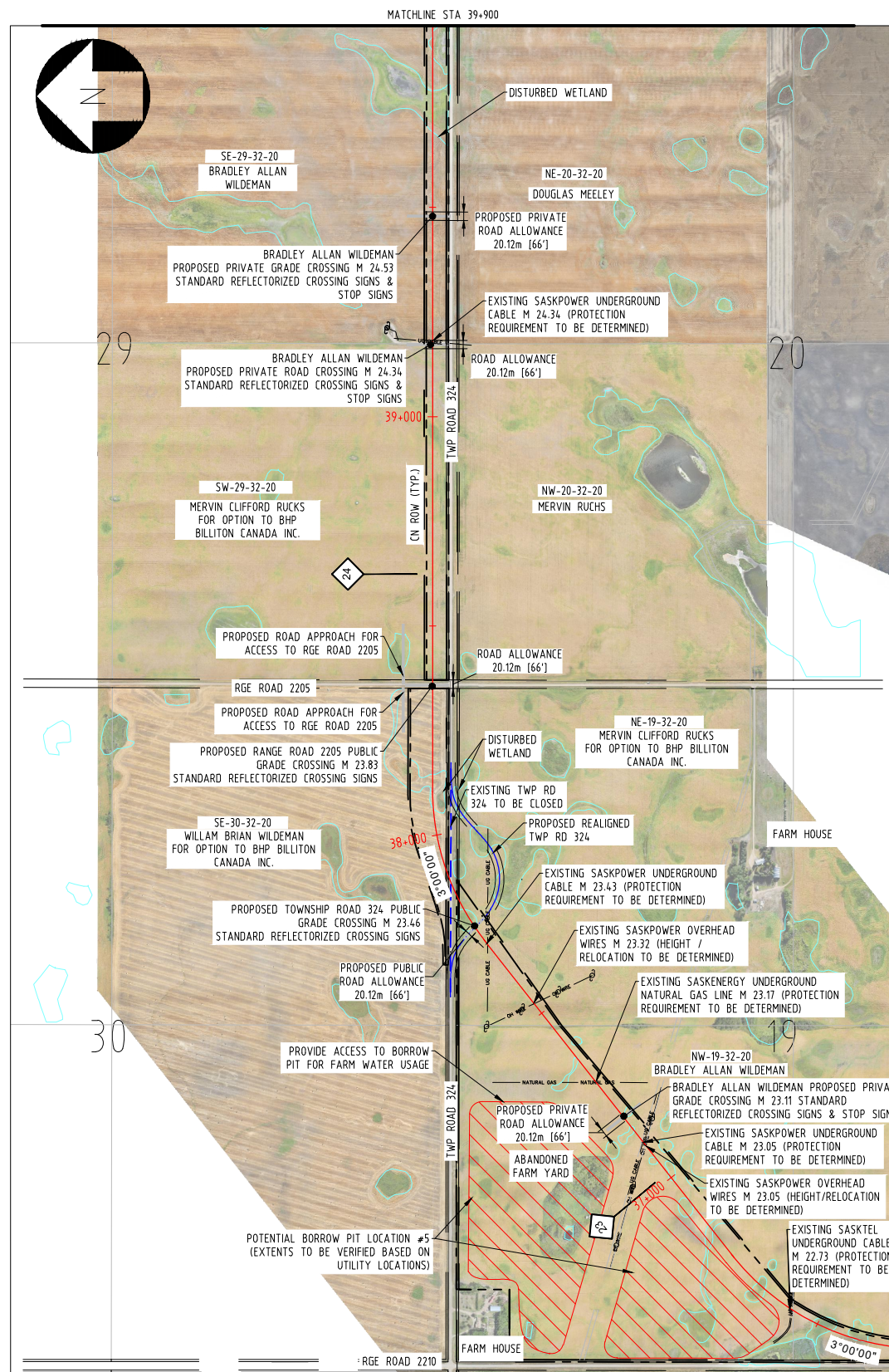
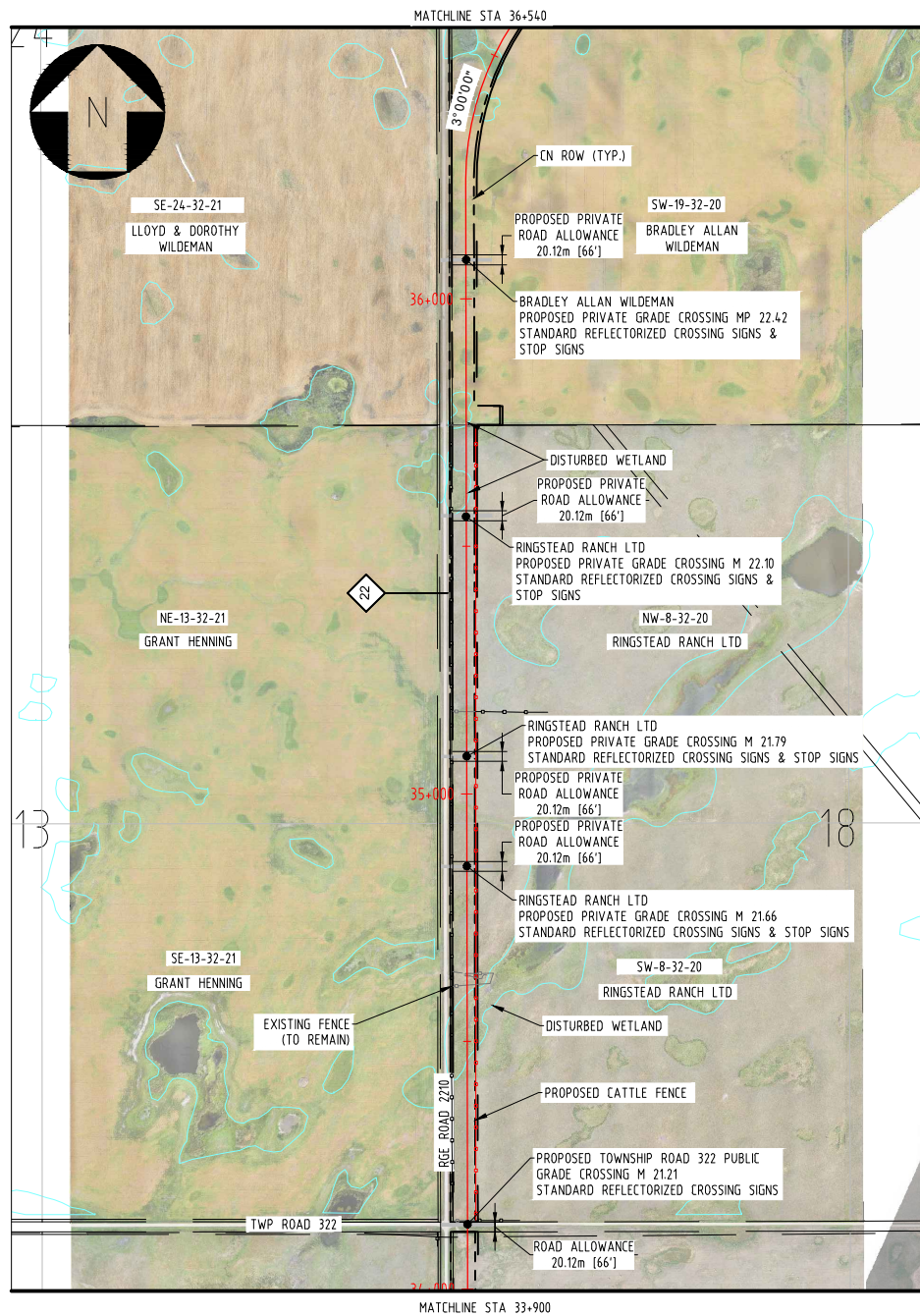
JANSEN STAGE 1
OFFSITE RAIL INFRASTRUCTURE, CN RAIL SPUR
OVERVIEW
DRAWING – STA 27+450 TO 33+900

PROJECT NO. 40001

AREA 322

FACILITY 000

SCALE	1:15000	A3	DRG. NO. 40001-RL-DWG-61260	REV	C
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KEY PLAN

NOTES:

- EXISTING AND FUTURE LAND-USE AND ZONING AROUND THE PROPOSED RAIL INFRASTRUCTURE IS AGRICULTURAL LAND.
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SCALE 1:15000



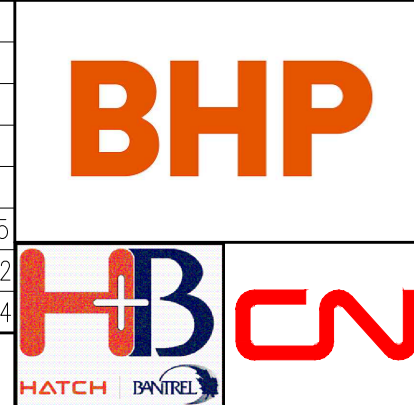
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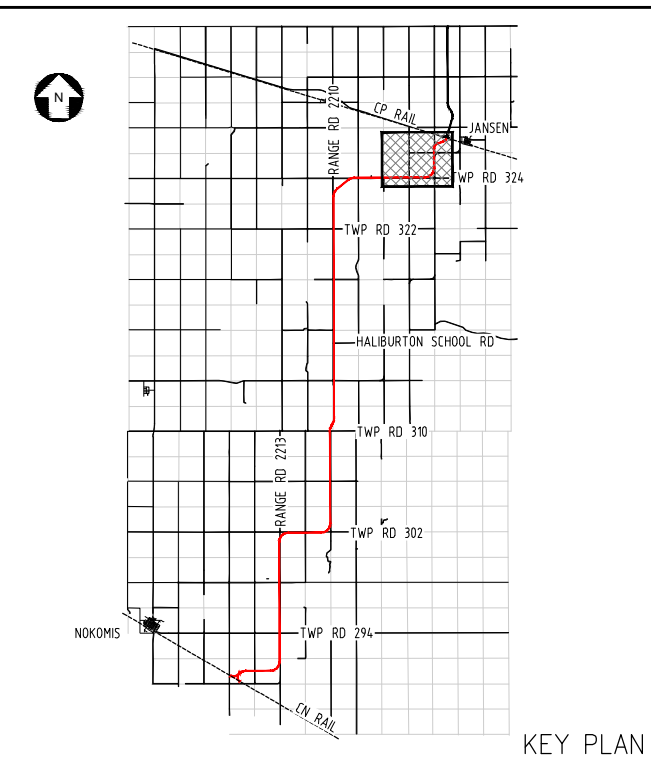
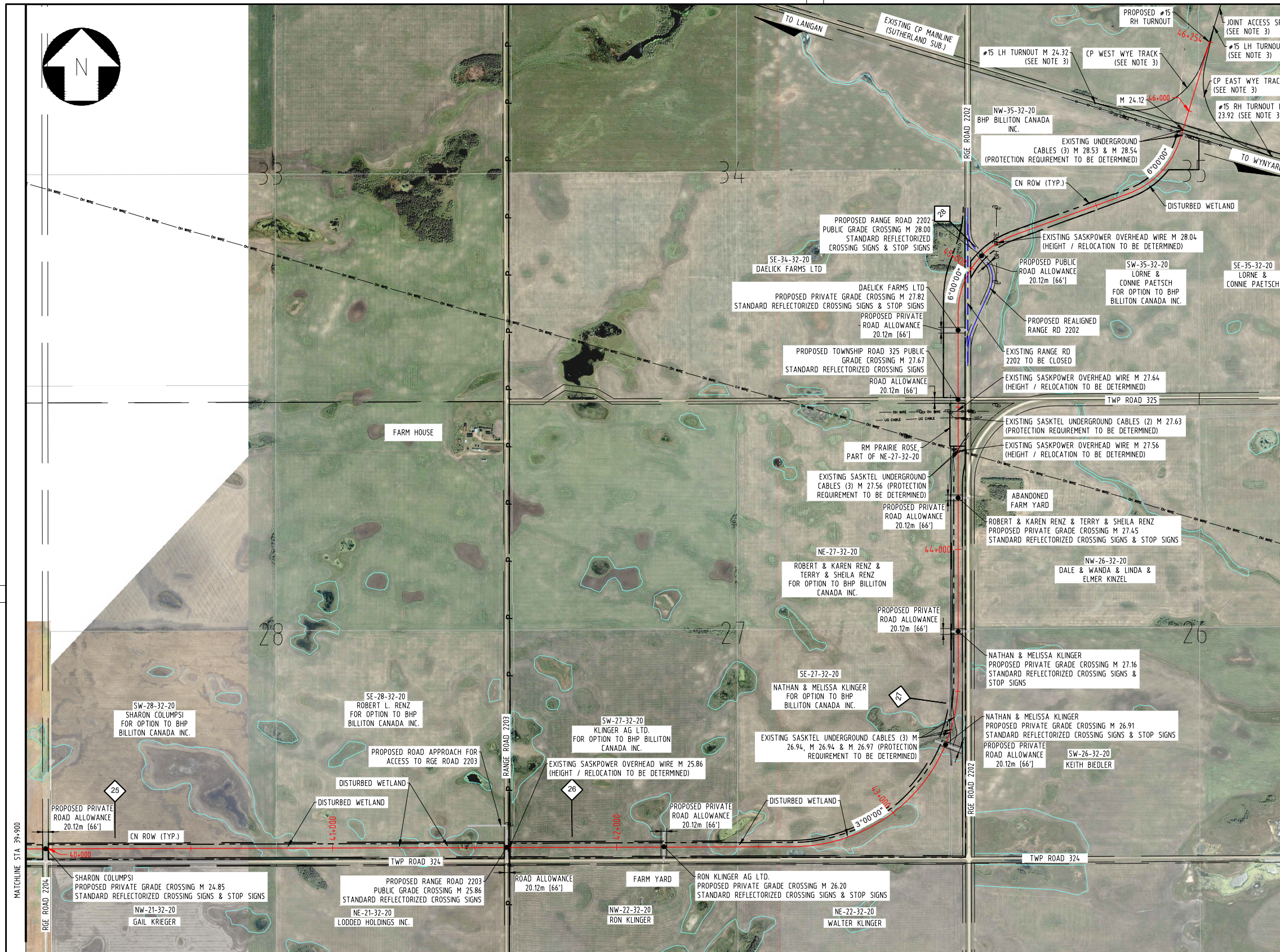
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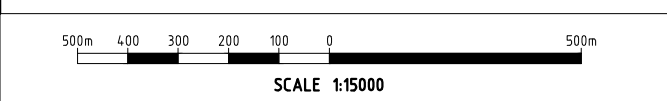


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VENDOR DRG. NO.		REV	
JANSEN STAGE 1 OFFSITE RAIL INFRASTRUCTURE, CN RAIL SPUR OVERVIEW DRAWING - STA 33+900 TO 39+900			
PROJECT NO. 40001	AREA 322	FACILITY 000	
SCALE	1:15000	DRG. NO. 40001-RL-DWG-61261	REV C



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 - INFRASTRUCTURE SHOWN FOR FUTURE CONSTRUCTION AS PART OF SEPARATE PROJECT FOR CONSTRUCTION OF BHP JANSEN JOINT ACCESS SPUR AND CP WYE TRACKS.
 - THE CURRENT LAND ZONING IS AGRICULTURAL. GIVEN THE CURRENT USE AND THE SASKATCHEWAN TERRITORY, SIGNIFICANT CHANGE IN ZONING IN THE FUTURE IS NOT ANTICIPATED.



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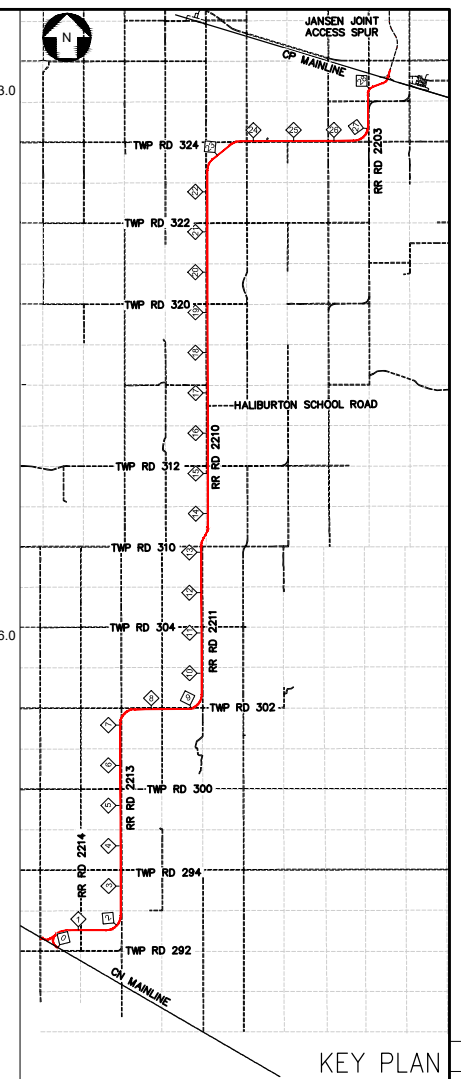
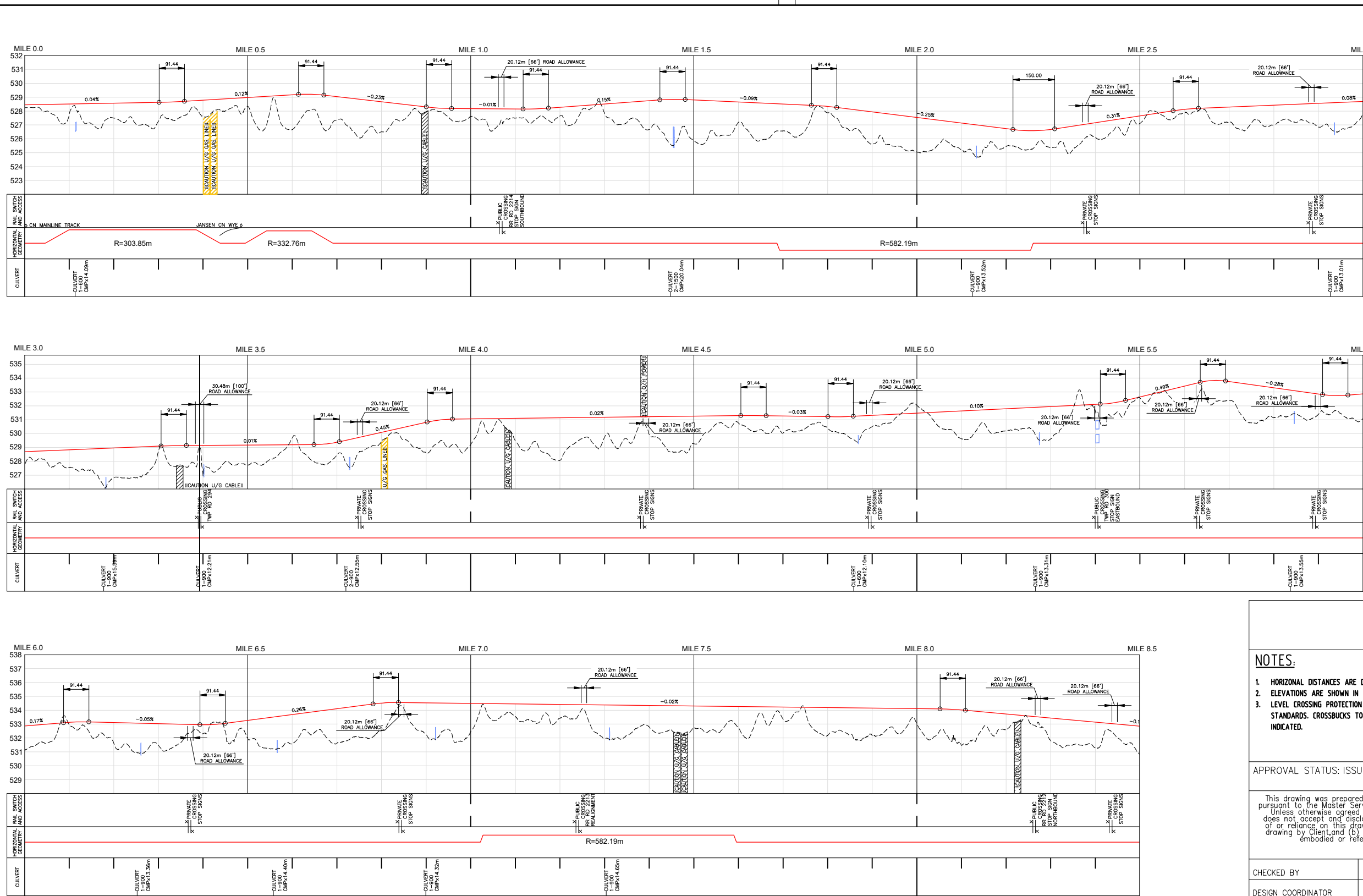
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DESIGN COORDINATOR		ENGINEERING MANAGER	
RESPONSIBLE ENGINEER		PROJECT MANAGER	
ROLE	SIGNATURE/DATE	ROLE	SIGNATURE/DATE

REV	ISSUED FOR INFORMATION	MM	PC	BM	LG	2022-08-15	
	ISSUED FOR REVIEW	MM	BB	DX	LG	2022-03-22	
	ISSUED FOR REVIEW	MM	BB	DX	LG	2022-02-04	
REV	REVISION REFERENCE	DES	DRN	CHK	APP	BHP	DATE

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VENDOR DRG. NO.		REV	
JANSEN STAGE 1 OFFSITE RAIL INFRASTRUCTURE, CN RAIL SPUR OVERVIEW DRAWING - STA 39+900 TO 46+254			
PROJECT NO. 40001	AREA 322	FACILITY 000	
SCALE	1:15000	DRG. NO. 40001-RL-DWG-61262	REV C



- NOTES:**
- HORIZONTAL DISTANCES ARE DRAWN IN METRES BUT LABELED AS MILES. REFERENCE: 0.1 MILE=160.934m
 - ELEVATIONS ARE SHOWN IN METRES. VERTICAL EXAGGERATION IS 150
 - LEVEL CROSSING PROTECTION TO BE PROVIDED AS-PER TRANSPORT CANADA GRADE CROSSING STANDARDS. CROSSBUCKS TO BE PROVIDED AT ALL CROSSINGS. STOP SIGNS TO BE PROVIDED WHERE INDICATED.

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CHECKED BY		LEAD DISCIPLINE ENGINEER	
DESIGN COORDINATOR		ENGINEERING MANAGER	
RESPONSIBLE ENGINEER		PROJECT MANAGER	
ROLE	SIGNATURE/DATE	ROLE	SIGNATURE/DATE

C	ISSUED FOR INFORMATION	MM	PC	BM	LG	2022-08-15
B	ISSUED FOR REVIEW	MM	BB	LG	LG	2022-03-22
A	ISSUED FOR REVIEW	MM	BB	LG	LG	2022-02-04
REV	REVISION REFERENCE	DES	DRN	CHK	APP	BHP DATE

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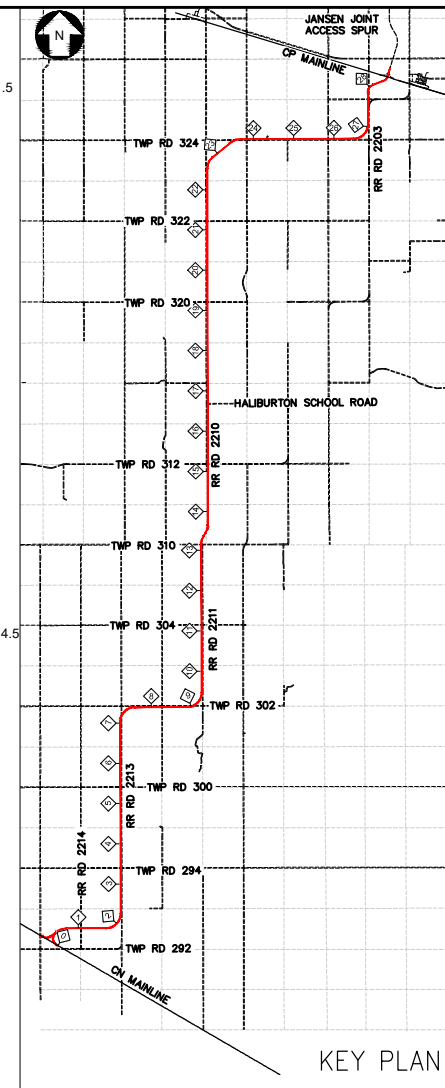
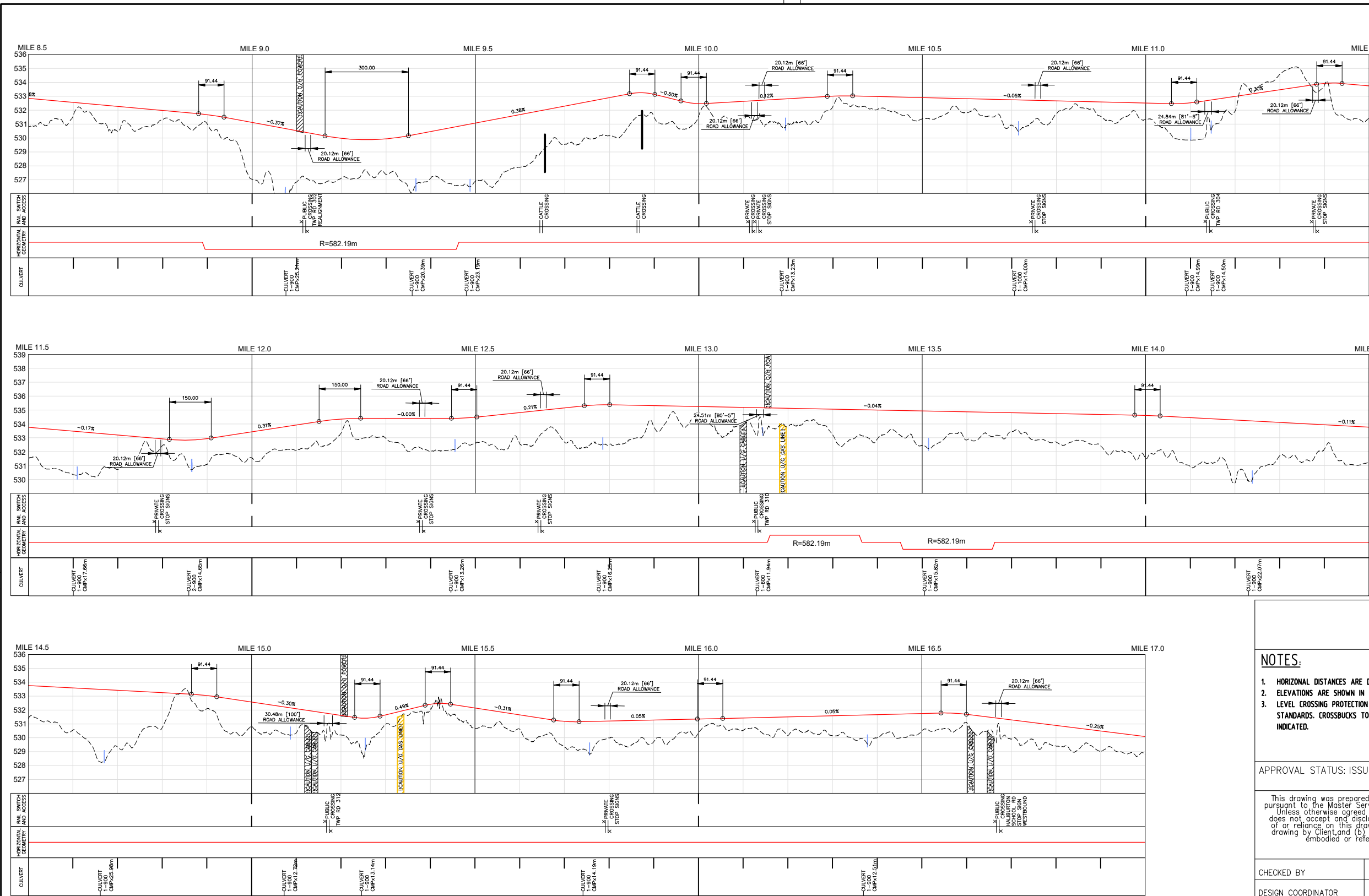
VENDOR DRG. NO.

JANSEN STAGE 1
OFFSITE RAIL INFRASTRUCTURE, CN RAIL SPUR
OVERVIEW – PROFILE
DRAWING – MILE 0.0 TO MILE 8.5

PROFESSIONAL ENGINEER
L.D. GILBEY
MEMBER 41203
SASKATCHEWAN

Association of Professional Engineers & Geoscientists of Saskatchewan
CERTIFICATE OF AUTHORIZATION
Hatch Corporation
Number C1294
Permission to Consult held by:
Discipline: S.E. Reg. No. 4-1-0-3 Signature: [Signature]

PROJECT NO. 40001	AREA 322	FACILITY 000
SCALE 1:15000 H 1:300 V	A3	DRG. NO. 40001-RL-DWG-61263
REV	C	



- NOTES:**
- HORIZONTAL DISTANCES ARE DRAWN IN METRES BUT LABELED AS MILES. REFERENCE: 0.1 MILE=160.934m
 - ELEVATIONS ARE SHOWN IN METRES. VERTICAL EXAGGERATION IS 150
 - LEVEL CROSSING PROTECTION TO BE PROVIDED AS-PER TRANSPORT CANADA GRADE CROSSING STANDARDS. CROSSBUCKS TO BE PROVIDED AT ALL CROSSINGS. STOP SIGNS TO BE PROVIDED WHERE INDICATED.

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DESIGN COORDINATOR		ENGINEERING MANAGER	
RESPONSIBLE ENGINEER		PROJECT MANAGER	
ROLE	SIGNATURE/DATE	ROLE	SIGNATURE/DATE

C	ISSUED FOR INFORMATION	MM	PC	BM	LG		2022-08-15
B	ISSUED FOR REVIEW	MM	BB	LG	LG		2022-03-22
A	ISSUED FOR REVIEW	MM	BB	LG	LG		2022-02-04
REV	REVISION REFERENCE	DES	DRN	CHK	APP	BHP	DATE

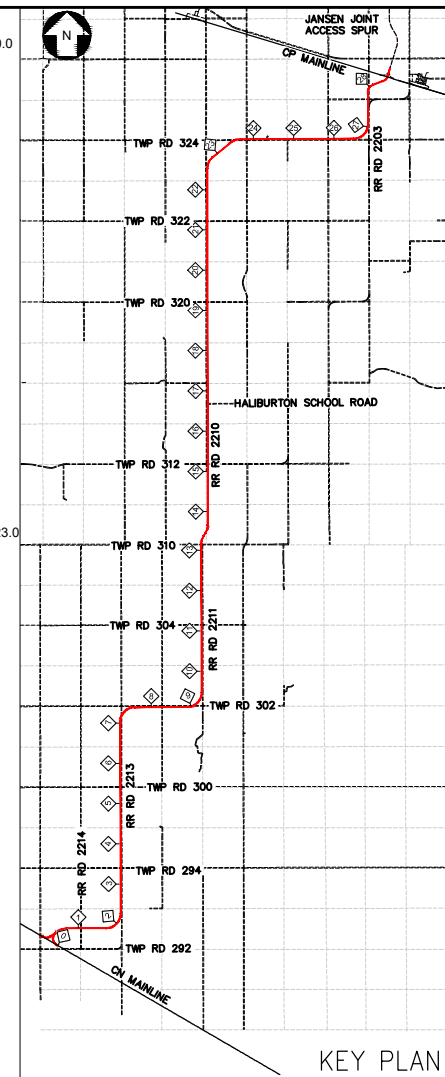
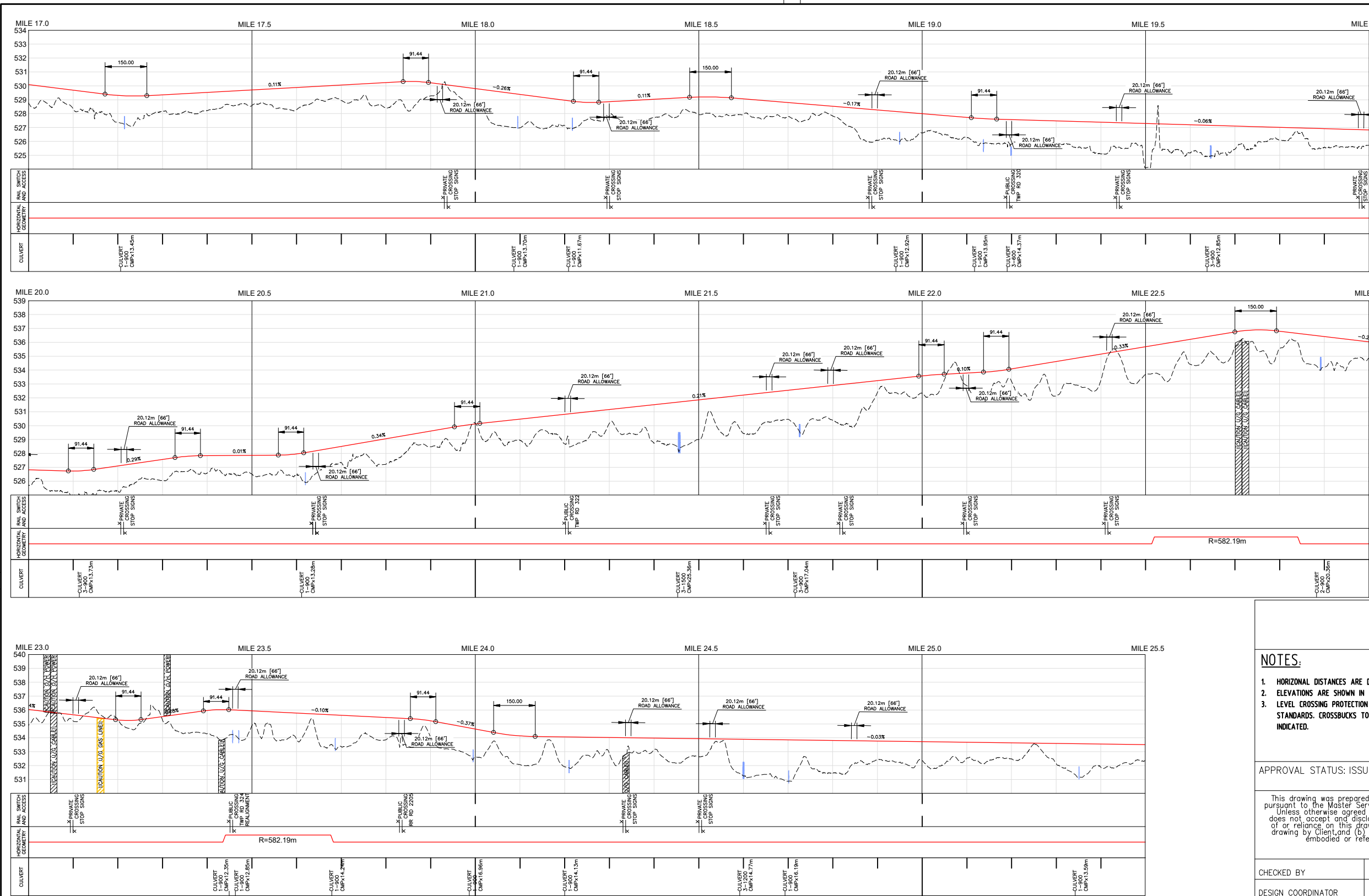
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VENDOR DRG. NO.

JANSEN STAGE 1
OFFSITE RAIL INFRASTRUCTURE, CN RAIL SPUR
OVERVIEW – PROFILE
DRAWING – MILE 8.5 TO MILE 17.0

PROJECT NO. 40001 AREA 322 FACILITY 000

SCALE: 1:15000 H, 1:300 V A3 DRG. NO. 40001-RL-DWG-61264



- NOTES:**
- HORIZONTAL DISTANCES ARE DRAWN IN METRES BUT LABELED AS MILES. REFERENCE: 0.1 MILE=160.934m
 - ELEVATIONS ARE SHOWN IN METRES. VERTICAL EXAGGERATION IS 150
 - LEVEL CROSSING PROTECTION TO BE PROVIDED AS-PER TRANSPORT CANADA GRADE CROSSING STANDARDS. CROSSBUCKS TO BE PROVIDED AT ALL CROSSINGS. STOP SIGNS TO BE PROVIDED WHERE INDICATED.

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DESIGN COORDINATOR	ENGINEERING MANAGER
RESPONSIBLE ENGINEER	PROJECT MANAGER
ROLE	SIGNATURE/DATE

REV	ISSUED FOR INFORMATION	MM	PC	BM	LG	2022-08-15	
B	ISSUED FOR REVIEW	MM	BB	LG	LG	2022-03-22	
A	ISSUED FOR REVIEW	MM	BB	LG	LG	2022-02-04	
REV	REVISION REFERENCE	DES	DRN	CHK	APP	BHP	DATE

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VENDOR DRG. NO.

JANSEN STAGE 1
OFFSITE RAIL INFRASTRUCTURE, CN RAIL SPUR
OVERVIEW – PROFILE
DRAWING – MILE 17.0 TO MILE 25.5

SCALE

1:15000 H
1:300 V

PROJECT NO. 40001

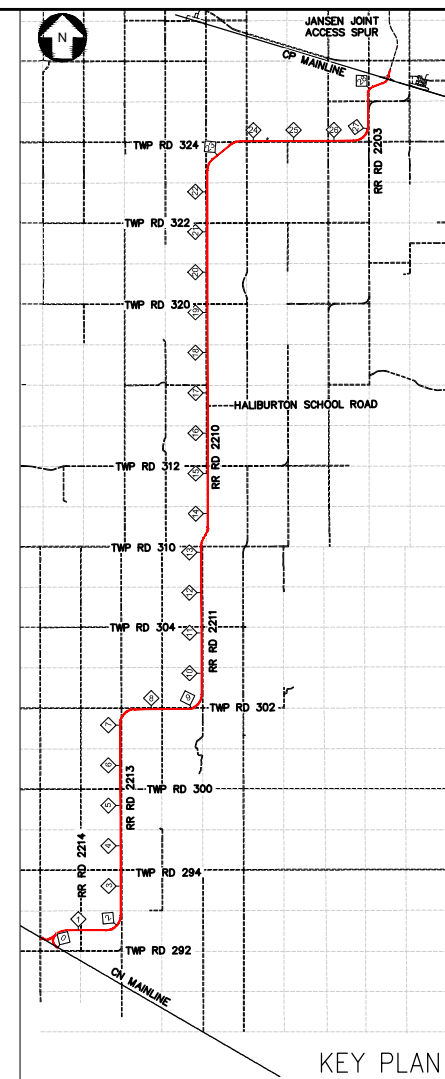
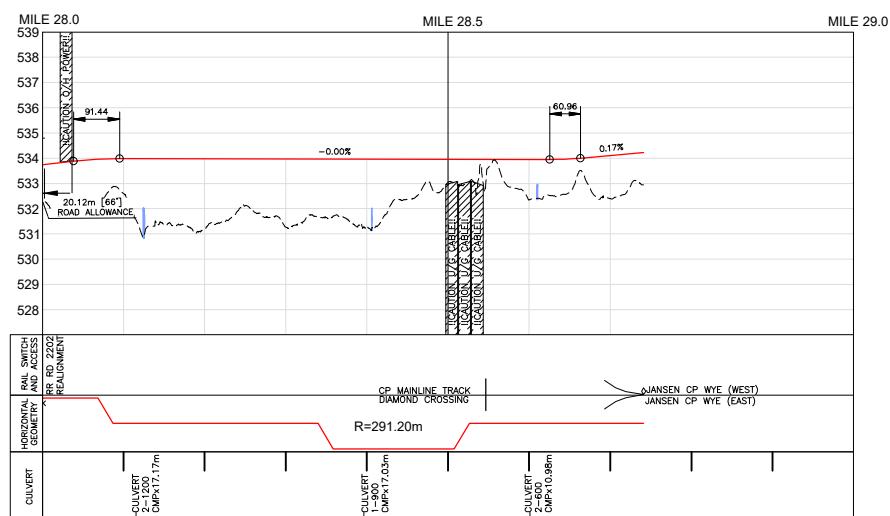
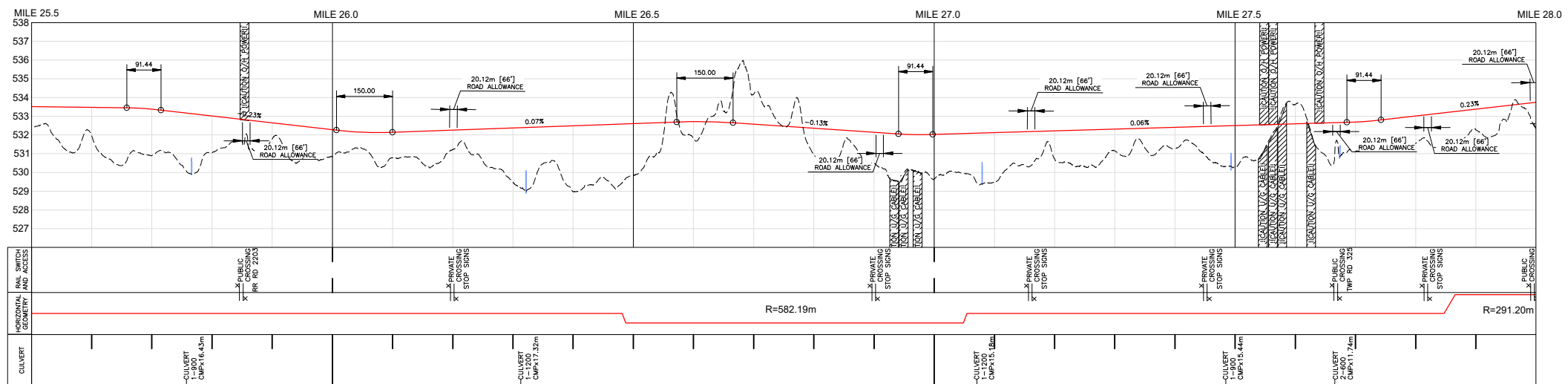
AREA 322

FACILITY 000

DRG. NO. 40001-RL-DWG-61265

REV

C



- NOTES:**
- HORIZONTAL DISTANCES ARE DRAWN IN METRES BUT LABELED AS MILES. REFERENCE: 0.1 MILE=160.934m
 - ELEVATIONS ARE SHOWN IN METRES. VERTICAL EXAGGERATION IS 1:50
 - LEVEL CROSSING PROTECTION TO BE PROVIDED AS-PER TRANSPORT CANADA GRADE CROSSING STANDARDS. CROSSBUCKS TO BE PROVIDED AT ALL CROSSINGS. STOP SIGNS TO BE PROVIDED WHERE INDICATED.

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RESPONSIBLE ENGINEER		PROJECT MANAGER	
ROLE	SIGNATURE/DATE	ROLE	SIGNATURE/DATE

REV	REVISION REFERENCE	DES	DRN	CHK	APP	BHP	DATE
C	ISSUED FOR INFORMATION	MM	PC	BM	LG		2022-08-15
B	ISSUED FOR REVIEW	MM	BB	LG	LG		2022-03-22
A	ISSUED FOR REVIEW	MM	BB	LG	LG		2022-02-04

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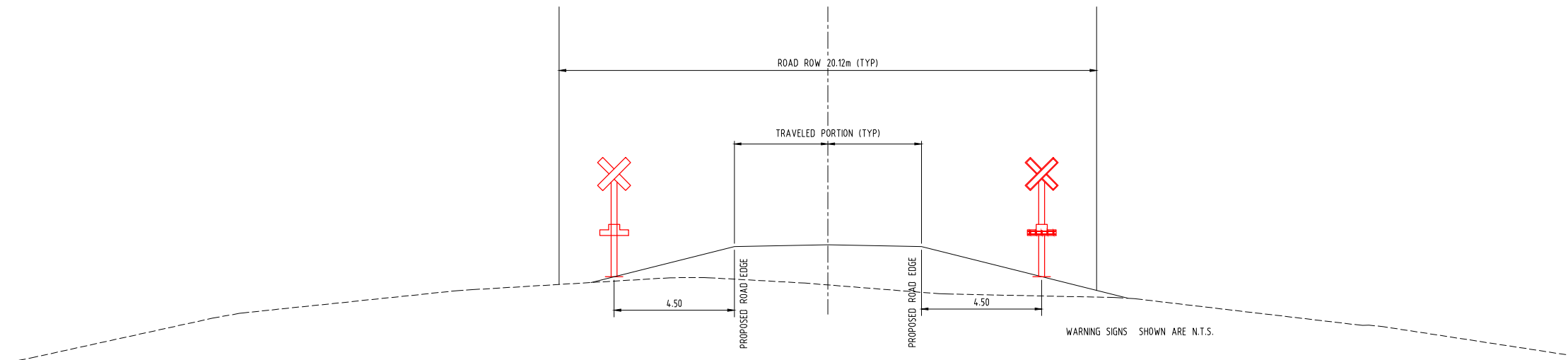
VENDOR DRG. NO.

JANSEN STAGE 1
OFFSITE RAIL INFRASTRUCTURE, CN RAIL SPUR
OVERVIEW – PROFILE
DRAWING – MILE 25.5 TO MILE 29.0

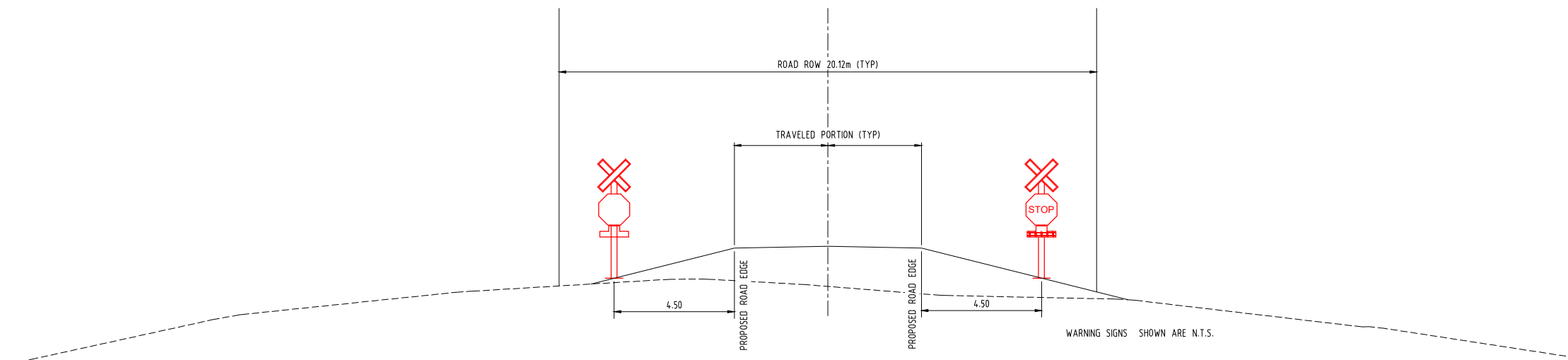
PROJECT NO. 40001 AREA 322 FACILITY 000

SCALE: 1:15000 H, 1:1500 V A3 DRG. NO. 40001-RL-DWG-61266

STANDARD REFLECTORIZED CROSSING SIGNS
TYP SIGNAGE LAYOUT



STANDARD REFLECTORIZED CROSSING SIGNS & STOP SIGNS
TYP SIGNAGE LAYOUT

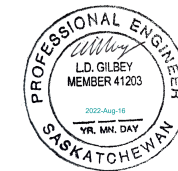


NOTES:

1. LEVEL CROSSING PROTECTION TO BE PROVIDED AS-PER TRANSPORT CANADA GRADE CROSSING STANDARDS. STANDARD REFLECTORIZED CROSSING SIGNS TO BE PROVIDED AT ALL CROSSINGS. STOP SIGNS TO BE PROVIDED WHERE INDICATED.
2. ALL GRADE CROSSINGS MUST HAVE:
 - 2.1. A SIGN PROVIDING ADVANCED WARNING OF A GRADE CROSSING (RAILWAY CROSSING AHEAD SIGN);
 - 2.2. AN EMERGENCY NOTIFICATION SIGN THAT PROVIDES INFORMATION ON THE LOCATION OF THE GRADE CROSSING AND THE RAILWAY COMPANY'S EMERGENCY TELEPHONE NUMBER;
 - 2.3. A SIGN INDICATING THE NUMBER OF TRACKS AT A GRADE CROSSING (NUMBER OF TRACKS SIGN).



SCALE 1:200



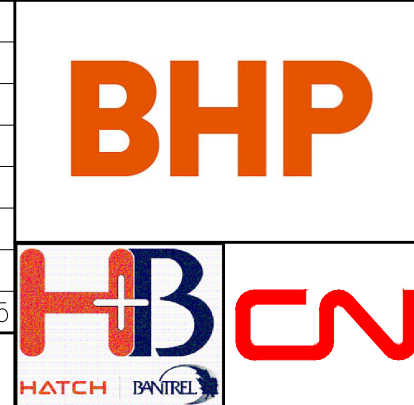
Association of Professional Engineers & Geoscientists of Saskatchewan
CERTIFICATE OF AUTHORIZATION
 Hatch Corporation
 Number C1294
 Permission to Consult held by:
 Discipline: RAIL Sk. Reg. No. 41203 Signature: [Signature]

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DESIGN COORDINATOR		ENGINEERING MANAGER	
RESPONSIBLE ENGINEER		PROJECT MANAGER	
ROLE	SIGNATURE/DATE	ROLE	SIGNATURE/DATE

REV	ISSUED FOR REVIEW	PC	PC	BM	LG	2022-08-15
REV	REVISION REFERENCE	DES	DRN	CHK	APP	BHP DATE



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VENDOR DRG. NO.		REV
JANSEN STAGE 1 OFFSITE RAIL INFRASTRUCTURE, CN RAIL SPUR TYPICAL SECTIONS DRAWING – TYPICAL ROAD SIGNAGE		
PROJECT NO. 40001	AREA 322	FACILITY 000
SCALE	1:15000	A3
DRG. NO. 40001-RL-DWG-85616	REV	A