

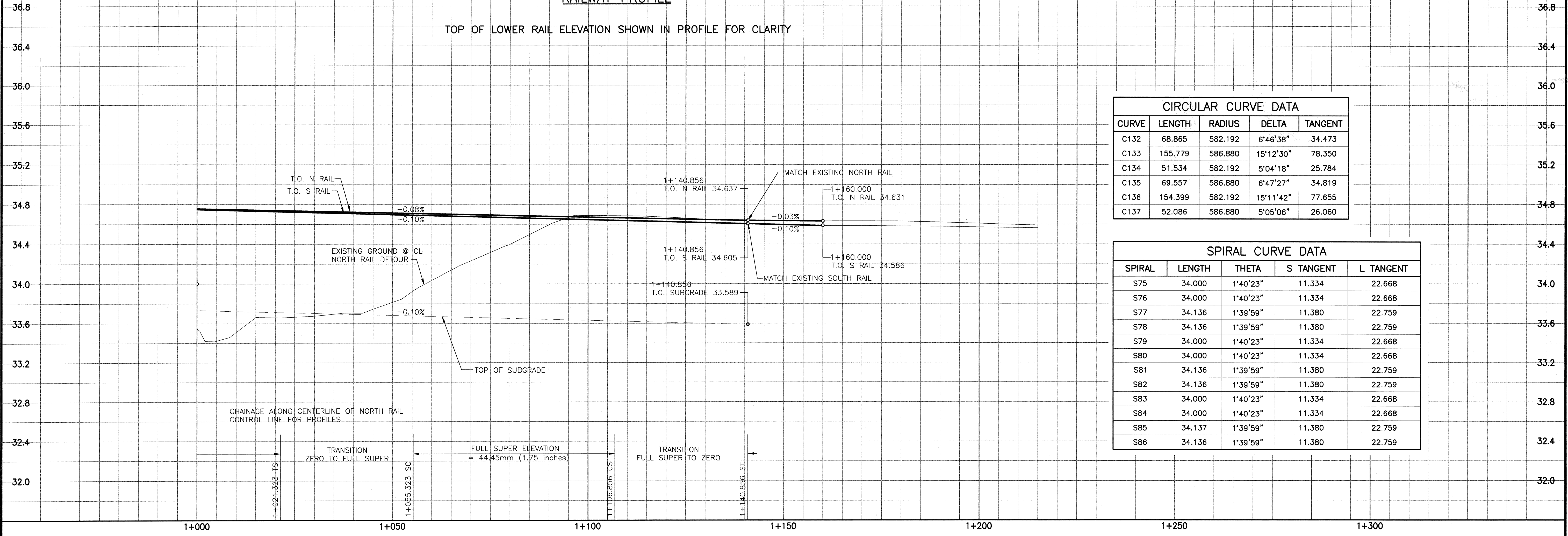
A1 SIZE 23.4" x 33.1" (594mm x 841mm)

PLOT: 05/04/07 8:31:31 PM

UMA FILE NAME: 4231-040-03_01-CT1036_RX.dwg Saved By: ddbczpod

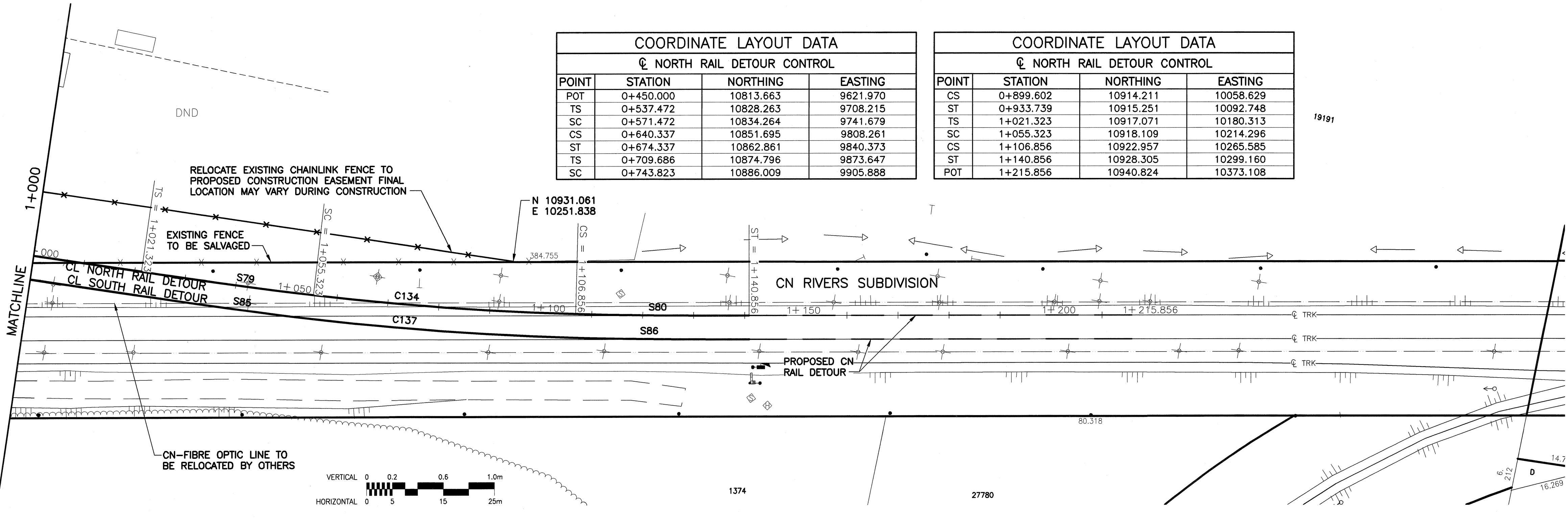
RAILWAY PROFILE

TOP OF LOWER RAIL ELEVATION SHOWN IN PROFILE FOR CLARITY



CIRCULAR CURVE DATA				
CURVE	LENGTH	RADIUS	DELTA	TANGENT
C132	68.865	582.192	6°46'38"	34.473
C133	155.779	586.880	15°12'30"	78.350
C134	51.534	582.192	5°04'18"	25.784
C135	69.557	586.880	6°47'27"	34.819
C136	154.399	582.192	15°11'42"	77.655
C137	52.086	586.880	5°05'06"	26.060

SPIRAL CURVE DATA				
SPIRAL	LENGTH	THETA	S TANGENT	L TANGENT
S75	34.000	1°40'23"	11.334	22.668
S76	34.000	1°40'23"	11.334	22.668
S77	34.136	1°39'59"	11.380	22.759
S78	34.136	1°39'59"	11.380	22.759
S79	34.000	1°40'23"	11.334	22.668
S80	34.000	1°40'23"	11.334	22.668
S81	34.136	1°39'59"	11.380	22.759
S82	34.136	1°39'59"	11.380	22.759
S83	34.000	1°40'23"	11.334	22.668
S84	34.000	1°40'23"	11.334	22.668
S85	34.137	1°39'59"	11.380	22.759
S86	34.136	1°39'59"	11.380	22.759

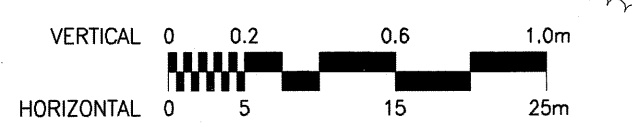


COORDINATE LAYOUT DATA			
CL NORTH RAIL DETOUR CONTROL			
POINT	STATION	NORTHING	EASTING
POT	0+450.000	10813.663	9621.970
TS	0+537.472	10828.263	9708.215
SC	0+571.472	10834.264	9741.679
CS	0+640.337	10851.695	9808.261
ST	0+674.337	10862.861	9840.373
TS	0+709.686	10874.796	9873.647
SC	0+743.823	10886.009	9905.888

COORDINATE LAYOUT DATA			
CL NORTH RAIL DETOUR CONTROL			
POINT	STATION	NORTHING	EASTING
CS	0+899.602	10914.211	10058.629
ST	0+933.739	10915.251	10092.748
TS	1+021.323	10917.071	10180.313
SC	1+055.323	10918.109	10214.296
CS	1+106.856	10922.957	10265.585
ST	1+140.856	10928.305	10299.160
POT	1+215.856	10940.824	10373.108

METRIC
WHOLE NUMBERS INDICATE MILLIMETRES
DECIMALIZED NUMBERS INDICATE METRES

WARNING
IF POWER EQUIPMENT OR EXPLOSIVES ARE TO BE USED FOR EXCAVATION ON THIS PROJECT THE CONTRACTOR MUST:
1) NOTIFY THE GAS COMPANY OF THE PROPOSED LOCATION OF EXCAVATION.
2) TAKE PRECAUTION TO AVOID DAMAGE TO GAS COMPANY INSTALLATIONS.
SEE PROVINCIAL REGULATION 140/92 FOR DETAILS



EXISTING	LEGEND	PLAN	NEW	EXISTING	LEGEND	PLAN	NEW	EXISTING	LEGEND	PLAN	NEW
○	MANHOLE	●	CONCRETE PAVEMENT	▨	CONC. SIDEWALK/MEDIAN	▨	LOCATION APPROVED UNDERGROUND STRUCTURES	□	B.M. GBM67-002		
□	CATCH BASIN/CATCH PIT	■	ASPHALT PAVEMENT	▨	ASPHALT APPROACH	▨	NOTE:	△	ELEV. 233.951		
△	C & G INLET WITH BOX	▲	ASPHALT SHOULDER	▨	ASPHALT SHOULDER	▨	LOCATION OF UNDERGROUND STRUCTURES AS SHOWN ARE BASED ON THE BEST INFORMATION AVAILABLE BUT NO GUARANTEE IS GIVEN THAT ALL EXISTING UTILITIES ARE SHOWN OR THAT THE GIVEN LOCATIONS ARE EXACT. CONFIRMATION OF EXISTENCE AND EXACT LOCATION OF ALL SERVICES MUST BE OBTAINED FROM THE INDIVIDUAL UTILITIES BEFORE PROCEEDING WITH CONSTRUCTION.	○			
○	TREE	▲	GRAVEL SHOULDER	▨	RAMP CURB	▨	SUPV. U/G STRUCTURES	○			
⊕	TEST HOLE	▲	REMOVAL	▨	SIGN	▨	DATE	○			
⊕	PROPERTY LINE	▲	RAIL SIGNALS/SIGNS	●	POLE	●	COMMITTEE	○			
⊕	SURVEY BAR	▲	LEGEND <td>PLAN <td>NEW</td> <td></td> <td></td> <td>○</td> <td></td> <td></td> <td></td> </td>	PLAN <td>NEW</td> <td></td> <td></td> <td>○</td> <td></td> <td></td> <td></td>	NEW			○			
⊕	GEODETIC MONUMENT	▲						○			
⊕	FENCE	▲						○			
⊕	B.O. CURB/E.O. PAVEMENT	▲						○			
⊕	ELEVATION	▲						○			
⊕	33,000	▲						○			
⊕	DITCH/SWALE	▲						○			
⊕	NEW	▲						○			

NOTE:
LOCATION OF UNDERGROUND STRUCTURES AS SHOWN ARE BASED ON THE BEST INFORMATION AVAILABLE BUT NO GUARANTEE IS GIVEN THAT ALL EXISTING UTILITIES ARE SHOWN OR THAT THE GIVEN LOCATIONS ARE EXACT. CONFIRMATION OF EXISTENCE AND EXACT LOCATION OF ALL SERVICES MUST BE OBTAINED FROM THE INDIVIDUAL UTILITIES BEFORE PROCEEDING WITH CONSTRUCTION.

NO.	REVISIONS	DATE	BY
0	ISSUED FOR CONSTRUCTION	05/04/19	DL
A	ISSUED FOR CLIENT REVIEW	05/02/28	DL

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<p>HOR. SCALE: 1:500</p> <p>VERTICAL: 1:20</p>		<p>DATE: 05/04/19</p>

ENGINEER'S SEAL

CONSULTANT DRAWING NO. 4231-040-03-40

THE CITY OF WINNIPEG
PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION

Winnipeg

KENASTON UNDERPASS PROJECT
CN RIVERS SUBDIVISION RAIL DETOUR

HORIZONTAL AND VERTICAL ALIGNMENT
STA. 1+000 TO STA. 1+215

SHEET 40 OF 61
CAD FILE DRAWING NUMBER 01-CT1036_RX
CITY DRAWING NUMBER P-3258-100

BID OPPORTUNITY No. 84-2005
Certificate of Authorization UMA Engineering Ltd. No. 256 Expiry: April 30, 2005