

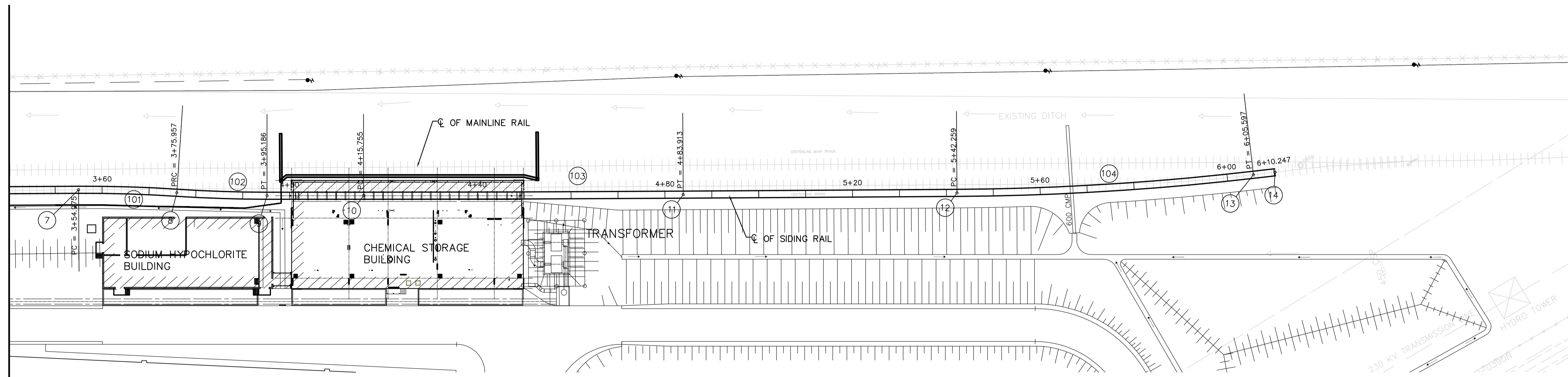
1 PLAN - MAINLINE, SIDING & CROSSOVER RAIL

MATCHLINE
3+40

UTM COORDINATE CROSS-OVER RAIL LAYOUT			
POINT I.D.	DESCRIPTION	NORTHING	EASTING
1	POINT OF SWITCH	5524182.766	647847.280
2	POINT OF INT.	5524178.397	647855.183
3	POINT OF INT.	5524155.903	647886.952
4	POINT OF SWITCH	5524151.533	647894.855

UTM COORDINATE SIDING RAIL LAYOUT			
POINT I.D.	DESCRIPTION	NORTHING	EASTING
5	CENTRE RAIL	5524252.443	647712.554
6	CENTRE RAIL	5524244.283	647727.115
7	CENTRE RAIL	5524128.980	647935.642
8	CENTRE RAIL	5524118.174	647953.623
9	CENTRE RAIL	5524108.221	647970.072
10	CENTRE RAIL	5524098.160	647988.012
11	CENTRE RAIL	5524065.013	648047.567
12	CENTRE RAIL	5524036.805	648098.640
13	CENTRE RAIL	5524009.256	648155.639
14	CENTRE RAIL	5524007.463	648159.930

CIRCULAR CURVE DATA					
Curve No.	100	101	102	103	104
R	360.279	291.063	291.063	10478.110	582.198
Δ	2°39'17"	4°07'49"	3°47'07"	0°22'22"	6°14'00"
T	8.348	10.495	9.618	34.079	31.701
E	0.097	0.189	0.159	0.055	0.862
Lc	16.642	20.982	19.229	68.158	63.339
Dc	4'50"	6'	6'	0'10"	3'



2 PLAN - MAINLINE, SIDING & CROSSOVER RAIL

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BENCHMARK NOTES:			
B.M. No.	NORTHING	EASTING	ELEVATION
PILE 136	5523873.734	647764.406	236.242
PILE 133	5523256.606	647782.387	236.056

NOTE: PILE No. 136 MAY BE REVISED PRIOR TO CONSTRUCTION. CONTRACT ADMINISTRATOR TO PROVIDE NEW ELEVATION AND COORDINATES.

- REFERENCE NOTES:
- A. ADD 200.00 TO DESIGN GRADES OBTAIN GEODETIC DATUM
 - B. ALL EXISTING UNDERGROUND UTILITIES SHALL BE CONFIRMED PRIOR TO CONSTRUCTION.
 - C. ALL SITE SURFACE WORKS SHALL BE IN ACCORDANCE WITH THE C.O.W. CONSTRUCTION SPECIFICATIONS

150 mm. W.M.	WATERMAIN	150 mm. W.M.	HYDRO	LIGHT STANDARD
Hydrant symbol	HYDRANT	Hydrant symbol	M.T.S.	ANCHOR
Valve symbol	VALVE	Concrete symbol	CONCRETE	POLE
300mm L.D.S.	LAND DRAINAGE SEWER	Asphalt symbol	ASPHALT	CONTOURS
250mm W.W.S.	WASTEWATER SEWER	Property line symbol	PROPERTY LINE	RAIL X-ING SIGNAL
Manhole symbol	MANHOLE	Survey bar symbol	SURVEY BAR	RAILWAY TRACK
Catch basin symbol	CATCH BASIN	Elevation symbol	ELEVATION	DITCH
Curb inlet symbol	CURB INLET	Tree symbol	TREE	
Junctions symbol	JUNCTIONS	Anode symbol	ANODE	
Culvert symbol	CULVERT	Concrete sidewalk symbol	CONCRETE SIDEWALK	
Gas symbol	GAS	Fence symbol	FENCE	
Existing symbol	LEGEND - PLAN	Proposed symbol	LEGEND - PLAN	Proposed symbol

APEGM
Certificate of Authorization
Earth Tech Canada Inc.
No. 730 Expiry: April 30, 2007

B.M. ELEV.	
00	ISSUED FOR TENDER 07-01-31 JC
NO. REVISIONS	DATE BY
	DATE 2007/01/31

CH2M HILL
Frederickson Cooper ARCHITECTS

EarthTech
A Tyco International Ltd. Company

DESIGNED BY	BSK	CHECKED BY	LC
DRAWN BY	BSK	APPROVED BY	AHL
SCALE:	1:500	RELEASED FOR CONSTRUCTION BY:	R. SOROKOWSKI
		DATE	2007/01/31

ENGINEER'S SEAL
PROVINCE OF MANITOBA
ORIGINAL SIGNATURE
J.N. CRANG
2007/01/31
REGISTERED PROFESSIONAL ENGINEER

THE CITY OF WINNIPEG
WATER AND WASTE DEPARTMENT
ENGINEERING DIVISION

WATER TREATMENT PLANT
BULK CHEMICAL BUILDING
SODIUM HYPOCHLORITE AND CHEMICAL STORAGE BUILDINGS

CIVIL
RAILWAY CONSTRUCTION
HORIZONTAL GEOMETRY

CITY FILE NUMBER	
SHEET OF	
CITY DRAWING NUMBER	1-0601S-A-C0002-001-00D