SHEET: COW-A1 (05/2005)

REF. NORTH — TRUE NORTH

S1 T.O. BEAM EL. 245.335 — 12200 — 1 WS-S0201 — S2 — 8350 — 5 WS-S0201 — S3 — 8 WS-S0203 — 7 WS-S0202 — 10500 — 3 WS-S0202 — S4 T.O. BEAM EL. 245.335

SA / SB / SC / SD / SE

L76x76x6.4 STRUT BRCNG
T.O. BEAM EL. 245.400
GIRTS 3 ROWS TYP. SEE SHEET WS-S0301
CROSS BRACING, SEE SHEET WS-S0303
GIRTS 3 ROWS TYP. SEE DETAIL ON SHEET WS-S0303
W310x24 (LOW)
STRUT JOIST
J-4 J-3
SNOW BUILT UP LINE
1.56 kPa
5150 SNOW DRIFT
4.60 kPa
W310x24
5150Wx7000 OPENING GIRT: ABOVE DOOR
SLOPE
MATCHLINE (WS-S0141)

L76x76x6.4 STRUT FROM T.O. COL. TO T.O. JOIST TOP CHORD TYP. LINE S1 & S6 ℄ RAILCAR Cf =Tf=20kN
GIRTS 3 ROWS TYP. SEE SHEET WS-S301
T.O. BEAM EL. 245.485
CROSS BRACING, SEE SHEET WS-S0303
T.O. BEAM (HIGH) EL. 247.400
T.O. BEAM (LOW) EL. 245.420
STEEL COL. TYP. SHOWN THUS
CAGED LADDER SEE STD. DETAILS
3500 3500 3500
T.O. BEAM (HIGH) EL. 247.363
T.O. BEAM (LOW) EL. 245.466
W200x52 LOW c/w N.S. W200x19 HIGH

2.60 kPa 1.56 kPa 2250 SNOW DRIFT
W610x92 W460x52 W530x66 W360x33 W200x19 W200x17
C200x19 C200x17 C180x15
290mm CMU WALL BELOW
WALL RESTRAINT TYP. SEE STANDARD DETAILS
CROSS BRACING, SEE SHEET WS-S0302
L102x102x6.4 HANGER SUPPORT FOR PLATFORM TYPICAL
℄ TANK TYPICAL
38x0.76 THICK STEEL ROOF DECK TYP. (3-SPAN CONT. MIN.)
MAINTAIN 30 SPACE BETWEEN MASONRY & STEEL DECK/JOIST
L 76x76x6.4 c/w ANGLES E.E. AT WALL RESTRAINT TYPICAL
290mm CMU WALL BELOW MAINTAIN 30 VOID BETWEEN MASONRY & STEEL DECK
140x140x12 BEARING PL. 2-160ø x165 N.S. GROUT 2 CORES, 1 COURSE BELOW PLATE TYPICAL C130 & W150 THIS LINE
L102x102x7.9 c/w 13ø x89 EMBED HILTI KWIK BOLT 3 I.C OF LEG @ 600 o/c
T.O. ANGLE EL. 247.687
HSS 152x152x6.4 STUB COL. SITTING ON W200x19 LOW BEAM
2.85kPa 2000 (SNOW DRIFT)
CONTINUOUS PLATE EMBEDED INTO CONC. BLOCK SEE STANDARD DETAILS TYPICAL SHOWN THUS
HSS 152x152x6.4 STUB COL. SITTING ON W460x52 LOW BEAM
T.O. STEEL EL. 247.637
T.O. STEEL EL. 248.445
STEEL DECK
EXTEND 290mm CMU WALL TO U/S RAISED ROOF DECK
CROSS BRACE BETWEEN W200/W460 & W200/W200
EL. 248.508
T.O. BEAM EL. 247.700

LANDYARD TYP. SEE STD. DETAIL SHEET WS-S0402.
CROSS BRACING, SEE SHEET WS-S0301
CROSS BRACING, SEE SHEET WS-S0303
SERVICE PLATFORM SUPPORT ANGLE TYPICAL
LOAD HANGER TYP. ALLOW 4.50kN
STRUT L76x76x6.4 TYP.
T.O. BEAM EL. 247.700

OVERALL DIM. 22990 o/o OF CONC.
GRID DIM. TYP. 12800
COLUMN LOC. TYP. 200
STEEL LOC. TYP. 2190

ROOF PLAN – PARTIAL STEEL FRAMING PLAN

1:50

SCALE 1:50 METRES 0 1 2 3 4 5
SCALE 1:1 MILLIMETRES 0 20 40 60 80 100

NOTES:
- ROOF STRUCTURE IS DESIGNED TO ALLOW THE REMOVAL OF CHEMICAL TANKS THROUGH ROOF
- JOIST SEAT IS 65mm
- SEE LANDYARD TIE DETAIL ON SHEET WS-S0402

100 100 STEEL/TANK CLEARANCE

APEGM Certificate of Authorization Earth Tech Canada Inc. No. 730 Expiry: April 30, 2006

NO.	REVISIONS	DATE	BY
01	792-2006 ADDENDUM 2	07/03/22	WDB
00	ISSUED FOR TENDER	07/01/31	CMF

B.M. ELEV.

CH2MHILL Fredericksen Cooper ARCHITECTS — EarthTech A Tyco International Ltd. Company

DESIGNED BY	ARA	CHECKED BY	AP
DRAWN BY	CMF	APPROVED BY	AHL
SCALE:	AS NOTED	RELEASED FOR CONSTRUCTION BY:	R. SOROKOWSKI
DATE	2006/08/30	DATE	2007/01/31

ENGINEER'S SEAL — ORIGINAL SIGNED BY A. POCHANART 2007/01/31

CONSULTANT DRAWING NO. WS-S0140

Winnipeg — THE CITY OF WINNIPEG
WATER AND WASTE DEPARTMENT
ENGINEERING DIVISION

WATER TREATMENT PLANT
BULK CHEMICAL BUILDING
SODIUM HYPOCHLORITE AND CHEMICAL STORAGE BUILDING
STRUCTURAL
ROOF PLAN – STEEL FRAMING (PARTIAL)

CITY FILE NUMBER
SHEET OF
CITY DRAWING NUMBER 1-06018-A-S0140-001-01D

Last Save: 2007-03-28 3:05 PM

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