

DATE Sept 17, 2010 DWN.BY A. PHINNEY DWG No. SSC2010-005

SCALE 1:200

Total Length of Straights

Length of One Straight

Length of 1/2 of One Straight

Center to Start of Curve

Start of Curve to Start of Curve (Measure

Mid-Point of Curve to Mid-Point of Curve

Center to Mid-Point of Curve Layout Curve Radius

Skated Radius Marked Track Curve Distance

Skated Track Curve Distance

Arc Length Between 2 Blocks ngle Between Blocks From Radius Cen

Chord Distance Between Blocks

Total Distance at Blocks Total Distance Skated Track $TD_2 - C_2$ L₁/2

L₁/4

T₁*2

L₂+(R₁*2)

A₁/2

Curve Radiu R₁+0.500

2*R₁*PI

2*R₂*PI

C₁/12

a/R₁

2*R_{1*}sin(Ø/2)

 $(T_1)^2 = (R_1)^2 + (L_3)^2$

PROJECT TITLE

100 m Racing Track on 25.908 m x 60.960 m Ice

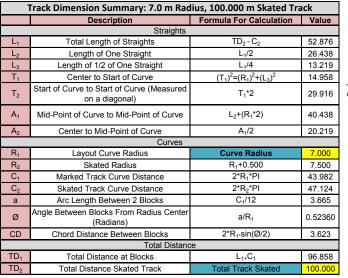
DRAWING TITLE

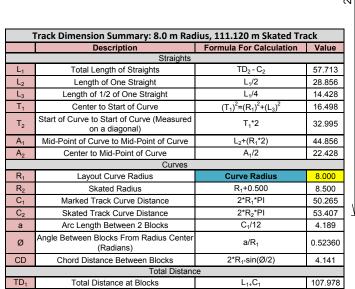
7 m Radius / 100.000 m Skated

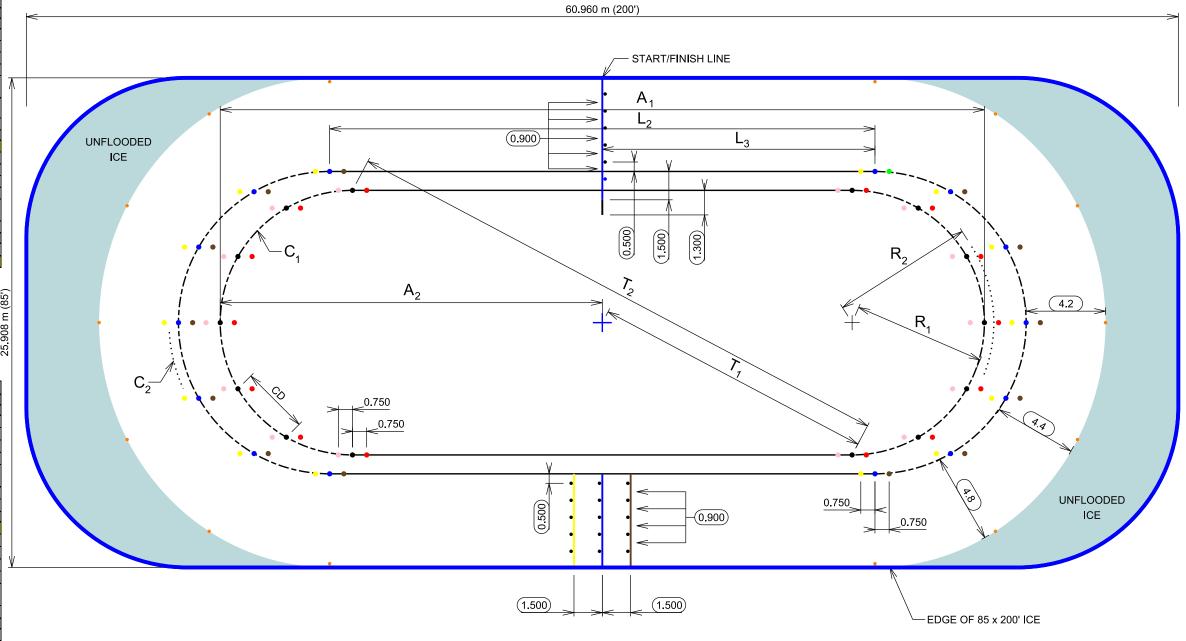


Speed Skating Canada 2781 Lancaster Road, Suite 402 Ottawa, Ontario, K1B 1A7 Tel: (613) 260-3669 Fax: (613) 260-3660 Email: ssc@speedskating.ca

NOTE: PRINT DIAGRAM ON 11" X 17 " PAPER







DWR. BY A. PHINNEY DATE Sept 19, 2010

DWG No. SSC2010-004 REV.

4 0 4 8m

SCALE 1:200

PROJECT TITLE

100 m & 111.12 m Racing Tracks on 25.908 m x 60.960 m Ice

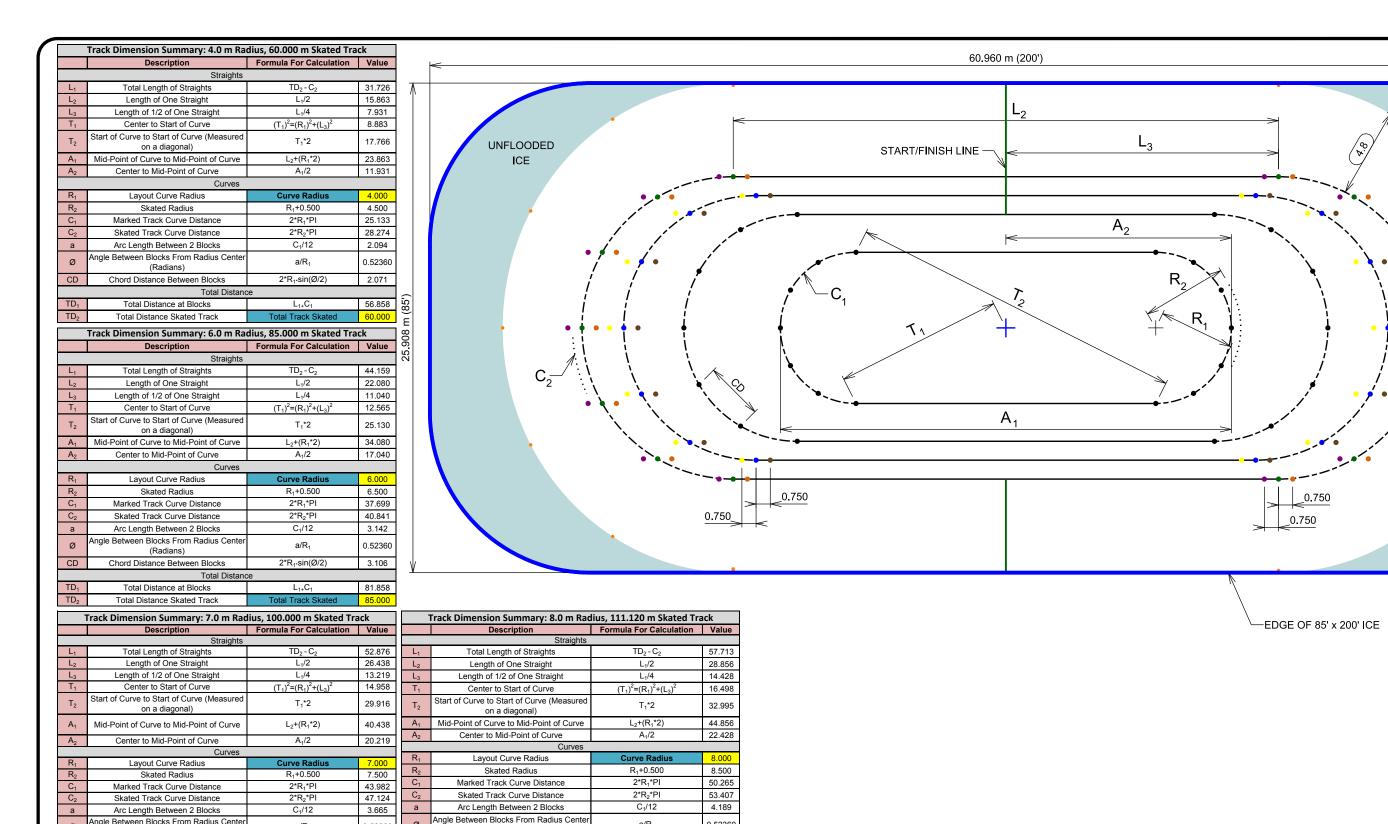
DRAWING TITLE

7 m Radius / 100.000 m Skated 8 m Radius / 111.120 m Skated



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NOTE: PRINT DIAGRAM ON 11" X 17 " PAPER



0.52360

2*R_{1*}sin(Ø/2)

NOTE: PRINT DIAGRAM ON 11" X 17 " PAPER

(4.2)

UNFLOODED

DATE Sept 17, 2010 DWN BY A. PHINNEY SSC2010-002 DWG No SCALE

gle Between Blocks From Radius Cen

(Radians)

Chord Distance Retween Blocks

Total Distance at Blocks

Total Distance Skated Track

PROJECT TITLE

Total Distance Skated Track

0.52360

3.623 96.858

2*R₁*sin(Ø/2)

60 m, 85 m, 100 m & 111.12 m **Training Tracks on** 25.908 m x 60.960 m Ice

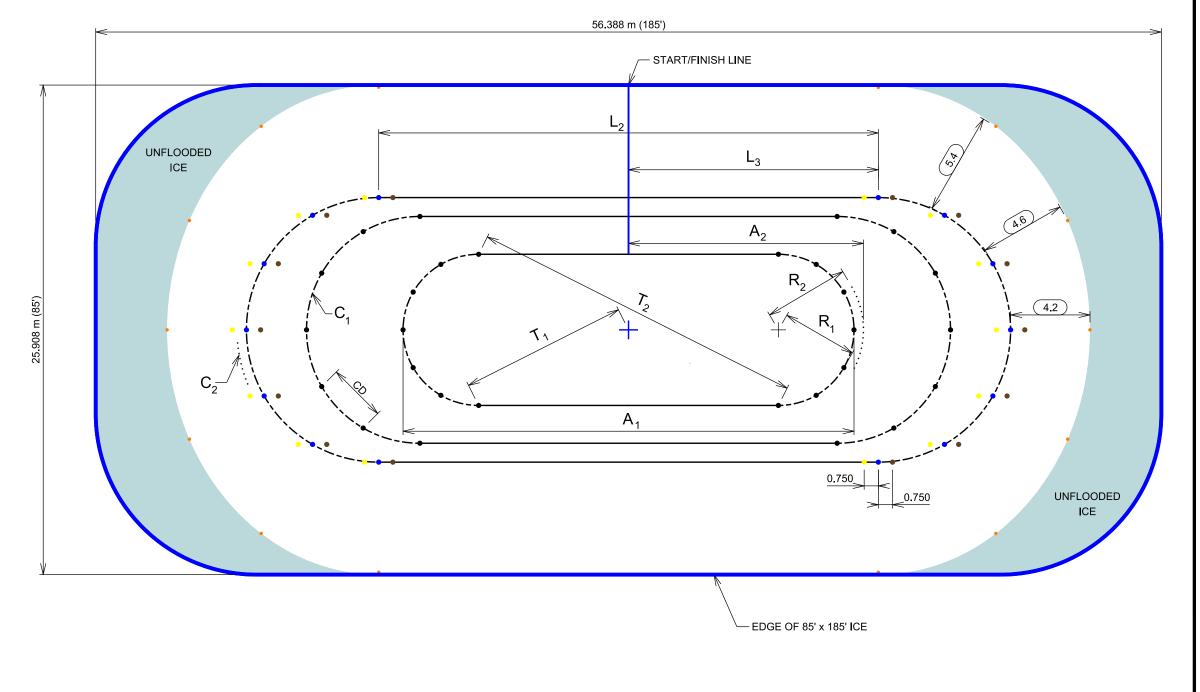
DRAWING TITLE

4 m Radius / 60.000 m Skated 6 m Radius / 85.000 m Skated 7 m Radius / 100.000 m Skated 8 m Radius / 111.120 m Skated



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	Track Dimension Summary: 4.0 m Rac		
	Description	Formula For Calculation	Valu
	Straights		ı
L ₁	Total Length of Straights	TD ₂ - C ₂	31.7
L ₂	Length of One Straight	L ₁ /2	15.8
L ₃	Length of 1/2 of One Straight	L ₁ /4	7.93
T ₁	Center to Start of Curve	$(T_1)^2 = (R_1)^2 + (L_3)^2$	8.88
T ₂	Start of Curve to Start of Curve (Measured	T ₁ *2	17.7
	on a diagonal)		
λ ₁	Mid-Point of Curve to Mid-Point of Curve	L ₂ +(R ₁ *2)	23.8
4 2	Center to Mid-Point of Curve	A ₁ /2	11.9
	Curves		
R ₁	Layout Curve Radius	Curve Radius	4.00
R ₂	Skated Radius	R ₁ +0.500	4.50
C ₁	Marked Track Curve Distance	2*R ₁ *PI	25.1
C_2	Skated Track Curve Distance	2*R ₂ *PI	28.2
а	Arc Length Between 2 Blocks	C₁/12	2.09
Ø	Angle Between Blocks From Radius Center	a/R₁	0.523
	(Radians)	<u> </u>	0.520
D	Chord Distance Between Blocks	2*R _{1*} sin(Ø/2)	2.07
	Total Distance	ce	
D ₁	Total Distance at Blocks	L ₁₊ C ₁	56.8
D_2	Total Distance Skated Track	Total Track Skated	60.0
	Treak Dimension Comments C.O Do	dive OF OOO as Shated Tre	ماد
	Track Dimension Summary: 6.0 m Rac		
	Description	Formula For Calculation	Valu
	Straights		
L ₁	Total Length of Straights	TD ₂ - C ₂	44.1
-2	Length of One Straight	L ₁ /2	22.0
-3	Length of 1/2 of One Straight	L ₁ /4	11.0
Γ ₁	Center to Start of Curve	$(T_1)^2 = (R_1)^2 + (L_3)^2$	12.5
Γ ₂	Start of Curve to Start of Curve (Measured	T₁*2	25.1
2	on a diagonal)	11 2	25.1
۱ ₁	Mid-Point of Curve to Mid-Point of Curve	L ₂ +(R ₁ *2)	34.0
A ₂	Center to Mid-Point of Curve	A ₁ /2	17.0
	Curves		
₹1	Layout Curve Radius	Curve Radius	6.00
R_2	Skated Radius	R ₁ +0.500	6.50
Ç₁	Marked Track Curve Distance	2*R₁*PI	37.6
C_2	Skated Track Curve Distance	2*R ₂ *PI	40.8
a a	Arc Length Between 2 Blocks	C ₁ /12	3.14
	Angle Between Blocks From Radius Center		
Ø	(Radians)	a/R ₁	0.523
		2*R _{1*} sin(Ø/2)	3.10
CD	Chord Distance Between Blocks	1 - (-)	
D	Chord Distance Between Blocks Total Distance	re ·	
	Total Distanc		81.8
D ₁	Total Distance Total Distance at Blocks	L ₁₊ C ₁	
D ₁	Total Distance at Blocks Total Distance Skated Track	L ₁₊ C ₁ Total Track Skated	85.0
D ₁	Total Distance at Blocks Total Distance Skated Track Track Dimension Summary: 7.0 m Rad	L ₁₊ C ₁ Total Track Skated lius, 100.000 m Skated Tra	85.0 ack
ΓD ₁	Total Distance Total Distance at Blocks Total Distance Skated Track Track Dimension Summary: 7.0 m Rad Description	L ₁₊ C ₁ Total Track Skated	85.0 ack
D ₁	Total Distance Total Distance at Blocks Total Distance Skated Track Track Dimension Summary: 7.0 m Rad Description Straights	L ₁₊ C ₁ Total Track Skated lius, 100.000 m Skated Tra Formula For Calculation	85.0 ack Val
D ₁	Total Distance Total Distance at Blocks Total Distance Skated Track Track Dimension Summary: 7.0 m Rad Description Straights Total Length of Straights	L ₁₊ C ₁ Total Track Skated lius, 100.000 m Skated Tra Formula For Calculation TD ₂ -C ₂	85.0 ack Valu 52.8
D ₁ D ₂ L ₁ L ₂	Total Distance Total Distance at Blocks Total Distance Skated Track Track Dimension Summary: 7.0 m Rad Description Straights Total Length of Straights Length of One Straight	$\begin{array}{c} L_{1}\text{-}C_{1} \\ \hline \text{Total Track Skated} \\ \\ \text{lius, 100.000 m Skated Trate} \\ \hline \text{Formula For Calculation} \\ \hline \\ \hline TD_{2}\text{-}C_{2} \\ \hline \\ L_{1}/2 \\ \end{array}$	85.0 ack Valu 52.8 26.4
D ₁ D ₂	Total Distance Total Distance at Blocks Total Distance Skated Track Track Dimension Summary: 7.0 m Rad Description Straights Total Length of Straights Length of One Straight Length of 1/2 of One Straight	$\begin{array}{c} L_{1} \cdot C_{1} \\ \hline \textbf{Total Track Skated} \\ \\ \textbf{lius, 100.000 m Skated Tra} \\ \hline \textbf{Formula For Calculation} \\ \hline \textbf{TD}_{2} \cdot C_{2} \\ \hline L_{1} / 2 \\ \hline L_{1} / 4 \\ \end{array}$	85.0 Valu 52.8 26.4 13.2
D ₁ D ₂ L ₁ L ₂ L ₃	Total Distance Total Distance at Blocks Total Distance Skated Track Track Dimension Summary: 7.0 m Rad Description Straights Total Length of Straights Length of One Straight Length of 1/2 of One Straight Center to Start of Curve	$\begin{array}{c} L_{1}\text{-}C_{1} \\ \hline \text{Total Track Skated} \\ \\ \text{lius, 100.000 m Skated Trate} \\ \hline \text{Formula For Calculation} \\ \hline \\ \hline TD_{2}\text{-}C_{2} \\ \hline \\ L_{1}/2 \\ \end{array}$	85.0 Valu 52.8 26.4 13.2
D ₁ D ₂ L ₁ L ₂ L ₃ T ₁	Total Distance Total Distance at Blocks Total Distance Skated Track Track Dimension Summary: 7.0 m Rad Description Straights Total Length of Straights Length of One Straight Length of 1/2 of One Straight Center to Start of Curve Start of Curve to Start of Curve (Measured	$\begin{array}{c} L_{1} \cdot C_{1} \\ \hline \textbf{Total Track Skated} \\ \\ \textbf{lius, 100.000 m Skated Tra} \\ \hline \textbf{Formula For Calculation} \\ \hline \textbf{TD}_{2} \cdot C_{2} \\ \hline L_{1} / 2 \\ \hline L_{1} / 4 \\ \end{array}$	85.0 ack Valu 52.8 26.4 13.2 14.9
D ₁ D ₂ -1 -2 -3 Γ ₁	Total Distance Total Distance at Blocks Total Distance Skated Track Track Dimension Summary: 7.0 m Rad Description Straights Total Length of Straights Length of One Straight Length of 1/2 of One Straight Center to Start of Curve	$\begin{array}{c} L_{1+}C_{1} \\ \hline \textbf{Total Track Skated} \\ \hline \textbf{lius, 100.000 m Skated Track Formula For Calculation} \\ \hline \textbf{TD}_{2} - C_{2} \\ \hline L_{1}/2 \\ \hline L_{1}/4 \\ \hline (T_{1})^{2} = (R_{1})^{2} + (L_{3})^{2} \\ \end{array}$	85.0 ack Valu 52.8 26.4 13.2 14.9
TD ₁ TD ₂ L ₁ L ₂ L ₃ TT ₁	Total Distance Total Distance at Blocks Total Distance Skated Track Track Dimension Summary: 7.0 m Rad Description Straights Total Length of Straights Length of One Straight Length of 1/2 of One Straight Center to Start of Curve Start of Curve to Start of Curve (Measured	$\begin{array}{c} L_{1+}C_{1} \\ \hline \textbf{Total Track Skated} \\ \hline \textbf{lius, 100.000 m Skated Track Formula For Calculation} \\ \hline \textbf{TD}_{2} - C_{2} \\ \hline L_{1}/2 \\ \hline L_{1}/4 \\ \hline (T_{1})^{2} = (R_{1})^{2} + (L_{3})^{2} \\ \end{array}$	85.0 ack Value 52.8 26.4 13.2 14.9 29.9
TD ₁ TD ₂ L ₁ L ₂ L ₃ TT ₁ TT ₂	Total Distance Total Distance at Blocks Total Distance Skated Track Track Dimension Summary: 7.0 m Rad Description Straights Total Length of Straights Length of One Straight Length of 1/2 of One Straight Center to Start of Curve Start of Curve to Start of Curve (Measured on a diagonal) Mid-Point of Curve to Mid-Point of Curve	$\begin{array}{c} L_{1+}C_1\\ \hline \textbf{Total Track Skated}\\ \hline \textbf{dius, 100.000 m Skated Track Formula For Calculation}\\ \hline TD_2-C_2\\ \hline L_1/2\\ \hline L_1/4\\ \hline (T_1)^2=(R_1)^2+(L_3)^2\\ \hline T_1*2\\ \hline L_2+(R_1*2)\\ \end{array}$	85.0 ack Value 52.8 26.4 13.2 14.9 29.9 40.4
TD ₁ TD ₂	Total Distance Total Distance at Blocks Total Distance Skated Track Track Dimension Summary: 7.0 m Rad Description Straights Total Length of Straight Length of One Straight Length of 1/2 of One Straight Center to Start of Curve Start of Curve to Start of Curve (Measured on a diagonal) Mid-Point of Curve to Mid-Point of Curve Center to Mid-Point of Curve	$\begin{array}{c} L_{1+}C_{1} \\ \hline \textbf{Total Track Skated} \\ \hline \textbf{lius, 100.000 m Skated Track Formula For Calculation} \\ \hline TD_{2}-C_{2} \\ L_{1}/2 \\ L_{1}/4 \\ \hline (T_{1})^{2}=(R_{1})^{2}+(L_{3})^{2} \\ T_{1}^{*}2 \end{array}$	85.0 ack Value 52.8 26.4 13.2 14.9 29.9 40.4
TD ₁ TD ₂ L ₁ L ₂ L ₃ TT ₁ TC ₂ A ₁	Total Distance Total Distance at Blocks Total Distance Skated Track Track Dimension Summary: 7.0 m Rad Description Straights Total Length of Straights Length of One Straight Length of 1/2 of One Straight Center to Start of Curve Start of Curve to Start of Curve (Measured on a diagonal) Mid-Point of Curve to Mid-Point of Curve Center to Mid-Point of Curve Curves	$\begin{array}{c} L_{1*}C_{1} \\ \hline \textbf{Total Track Skated} \\ \\ \textbf{lius, 100.000 m Skated Track Skated} \\ \hline \textbf{Formula For Calculation} \\ \hline TD_{2} - C_{2} \\ L_{1}/2 \\ L_{1}/4 \\ \hline (T_{1})^{2} = (R_{1})^{2} + (L_{3})^{2} \\ T_{1}*2 \\ L_{2} + (R_{1}*2) \\ A_{1}/2 \\ \end{array}$	85.0 ack Value 52.8 26.4 13.2 14.9 29.9 40.4
TD ₁ TD ₂	Total Distance Total Distance at Blocks Total Distance Skated Track Track Dimension Summary: 7.0 m Rad Description Straights Total Length of Straights Length of One Straight Length of 1/2 of One Straight Center to Start of Curve Start of Curve to Start of Curve (Measured on a diagonal) Mid-Point of Curve to Mid-Point of Curve Center to Mid-Point of Curve Curves Layout Curve Radius	$\begin{array}{c} L_{1*}C_1 \\ \hline \textbf{Total Track Skated} \\ \hline \textbf{lius, 100.000 m Skated Track Skated} \\ \hline \textbf{Formula For Calculation} \\ \hline TD_2 - C_2 \\ L_1/2 \\ L_1/4 \\ \hline (T_1)^2 = (R_1)^2 + (L_3)^2 \\ T_1*2 \\ \hline L_2 + (R_1*2) \\ A_1/2 \\ \hline \\ \textbf{Curve Radius} \\ \hline \end{array}$	85.0 ack Valu 52.8 26.4 13.2 14.9 29.9 40.4 20.2
L_1 L_2 L_3 T_1 T_2 A_1 A_2 R_1	Total Distance Total Distance at Blocks Total Distance Skated Track Track Dimension Summary: 7.0 m Rad Description Straights Total Length of Straights Length of One Straight Length of 1/2 of One Straight Center to Start of Curve Start of Curve to Start of Curve (Measured on a diagonal) Mid-Point of Curve to Mid-Point of Curve Center to Mid-Point of Curve Curves Layout Curve Radius Skated Radius	$\begin{array}{c} L_{1*}C_{1} \\ \hline \text{Total Track Skated} \\ \hline \text{lius, 100.000 m Skated Track} \\ \hline \text{Formula For Calculation} \\ \hline TD_{2} - C_{2} \\ L_{1}/2 \\ L_{1}/4 \\ \hline (T_{1})^{2} = (R_{1})^{2} + (L_{3})^{2} \\ T_{1} ^{*}2 \\ L_{2} + (R_{1} ^{*}2) \\ A_{1}/2 \\ \hline \\ \hline \textbf{Curve Radius} \\ R_{1} + 0.500 \\ \hline \end{array}$	85.0 ack Value 52.8 26.4 13.2 14.9 29.9 40.4 20.2 7.00 7.50
TD ₁ TD ₂ L ₁ L ₂ L ₃ T ₁ T ₂ A ₁ R ₂ C ₁	Total Distance Total Distance at Blocks Total Distance Skated Track Track Dimension Summary: 7.0 m Rad Description Straights Total Length of Straights Length of One Straight Length of 1/2 of One Straight Center to Start of Curve Start of Curve to Start of Curve (Measured on a diagonal) Mid-Point of Curve to Mid-Point of Curve Center to Mid-Point of Curve Curves Layout Curve Radius Skated Radius Marked Track Curve Distance	$\begin{array}{c} L_{1+}C_{1} \\ \hline \text{Total Track Skated} \\ \hline \text{lius, 100.000 m Skated Track} \\ \hline \text{Formula For Calculation} \\ \hline TD_{2}-C_{2} \\ L_{1}/2 \\ L_{1}/4 \\ (T_{1})^{2}=(R_{1})^{2}+(L_{3})^{2} \\ T_{1}^{*}2 \\ L_{2}+(R_{1}^{*}2) \\ A_{1}/2 \\ \hline \\ \hline \text{Curve Radius} \\ R_{1}+0.500 \\ 2^{*}R_{1}^{*}\text{PI} \\ \hline \end{array}$	85.0 Sack Value 52.8 26.4 13.2 14.9 29.9 40.4 20.2 7.00 7.50 43.9
TD ₁ TD ₂ L ₁ L ₂ L ₃ T ₁ T ₂ A ₁ A ₂ R ₁ R ₂ C ₁ C ₂	Total Distance Total Distance at Blocks Total Distance Skated Track Track Dimension Summary: 7.0 m Rad Description Straights Total Length of Straights Length of One Straight Length of 1/2 of One Straight Center to Start of Curve Start of Curve to Start of Curve (Measured on a diagonal) Mid-Point of Curve to Mid-Point of Curve Center to Mid-Point of Curve Curves Layout Curve Radius Skated Radius Marked Track Curve Distance Skated Track Curve Distance	$\begin{array}{c} L_{1*}C_{1} \\ \hline \text{Total Track Skated} \\ \hline \text{lius, 100.000 m Skated Track Skated} \\ \hline \text{Formula For Calculation} \\ \hline TD_{2} - C_{2} \\ L_{1}/2 \\ L_{1}/4 \\ (T_{1})^{2} = (R_{1})^{2} + (L_{3})^{2} \\ T_{1}^{*2} \\ \hline L_{2} + (R_{1}^{*2}) \\ A_{1}/2 \\ \hline \\ \hline \text{Curve Radius} \\ R_{1} + 0.500 \\ 2^{*}R_{1}^{*}\text{PI} \\ 2^{*}R_{2}^{*}\text{PI} \\ \hline \end{array}$	85.0 Value 52.8 26.4 13.2 14.9 29.9 40.4 20.2 7.00 7.51 43.9 47.1
TD ₁ TD ₂ L ₁ L ₂ L ₃ T ₁ T ₂ A ₁ R ₂ C ₁ C ₂ a	Total Distance Total Distance at Blocks Total Distance Skated Track Track Dimension Summary: 7.0 m Rad Description Straights Total Length of Straights Length of One Straight Length of 1/2 of One Straight Center to Start of Curve Start of Curve to Start of Curve (Measured on a diagonal) Mid-Point of Curve to Mid-Point of Curve Center to Mid-Point of Curve Curves Layout Curve Radius Skated Radius Marked Track Curve Distance Skated Track Curve Distance Arc Length Between 2 Blocks	$\begin{array}{c} L_{1*}C_{1} \\ \hline \textbf{Total Track Skated} \\ \hline \textbf{lius, 100.000 m Skated Track Skated} \\ \hline \textbf{Formula For Calculation} \\ \hline TD_{2} - C_{2} \\ L_{1}/2 \\ L_{1}/4 \\ \hline (T_{1})^{2} = (R_{1})^{2} + (L_{3})^{2} \\ T_{1} * 2 \\ L_{2} + (R_{1} * 2) \\ A_{1}/2 \\ \hline \\ \textbf{Curve Radius} \\ R_{1} + 0.500 \\ 2^{*}R_{1} * Pl \\ 2^{*}R_{2} * Pl \\ C_{1}/12 \\ \hline \end{array}$	85.0 85.0 Vali 52.8 26.4 13.2 14.9 29.9 40.4 20.2 7.00 7.56 43.9 47.1 3.60
L ₁ L ₂ L ₃ T ₁ T ₂ A ₁ A ₂ R ₁ R ₂ C ₁ C ₂	Total Distance Total Distance at Blocks Total Distance Skated Track Track Dimension Summary: 7.0 m Rad Description Straights Total Length of Straights Length of One Straight Length of 1/2 of One Straight Center to Start of Curve Start of Curve to Start of Curve (Measured on a diagonal) Mid-Point of Curve to Mid-Point of Curve Center to Mid-Point of Curve Curves Layout Curve Radius Skated Radius Marked Track Curve Distance Skated Track Curve Distance	$\begin{array}{c} L_{1*}C_{1} \\ \hline \text{Total Track Skated} \\ \hline \text{lius, 100.000 m Skated Track Skated} \\ \hline \text{Formula For Calculation} \\ \hline TD_{2} - C_{2} \\ L_{1}/2 \\ L_{1}/4 \\ (T_{1})^{2} = (R_{1})^{2} + (L_{3})^{2} \\ T_{1}^{*2} \\ \hline L_{2} + (R_{1}^{*2}) \\ A_{1}/2 \\ \hline \\ \hline \text{Curve Radius} \\ R_{1} + 0.500 \\ 2^{*}R_{1}^{*}\text{PI} \\ 2^{*}R_{2}^{*}\text{PI} \\ \hline \end{array}$	85.0 Value 52.8 26.4 13.2 14.9 29.9 40.4 20.2 7.00 7.50 43.9 47.1 3.66
TD ₁ TD ₂ L ₁ L ₂ L ₃ TT ₁ TT ₂ A ₁ R ₂ CC ₁ CC ₂ a	Total Distance Total Distance at Blocks Total Distance Skated Track Track Dimension Summary: 7.0 m Rad Description Straights Total Length of Straights Length of One Straight Length of I/2 of One Straight Center to Start of Curve Start of Curve to Start of Curve (Measured on a diagonal) Mid-Point of Curve to Mid-Point of Curve Center to Mid-Point of Curve Curves Layout Curve Radius Skated Radius Marked Track Curve Distance Skated Track Curve Distance Arc Length Between 2 Blocks Angle Between Blocks From Radius Center (Radians)	$\begin{array}{c} L_{1*}C_{1} \\ \hline \textbf{Total Track Skated} \\ \hline \textbf{lius, 100.000 m Skated Track Skated} \\ \hline \textbf{Formula For Calculation} \\ \hline TD_{2} - C_{2} \\ L_{1}/2 \\ L_{1}/4 \\ \hline (T_{1})^{2} = (R_{1})^{2} + (L_{3})^{2} \\ T_{1} * 2 \\ L_{2} + (R_{1} * 2) \\ A_{1}/2 \\ \hline \\ \textbf{Curve Radius} \\ R_{1} + 0.500 \\ 2^{*}R_{1} * Pl \\ 2^{*}R_{2} * Pl \\ C_{1}/12 \\ \hline \end{array}$	85.0 Valida 52.8 26.4 13.2 29.9 40.4 20.2 7.00 7.56 43.9 47.1 3.60 0.52
D ₁ D ₂ -1 -2 -3 Γ ₁ Γ ₂ -3 Γ ₂ -3 Γ ₃ Γ ₄ Γ ₅ -3 Γ ₄ -3 Γ ₅ -3 Γ ₆ -3 Γ ₇	Total Distance Total Distance at Blocks Total Distance Skated Track Track Dimension Summary: 7.0 m Rad Description Straights Total Length of Straights Length of One Straight Length of 1/2 of One Straight Center to Start of Curve Start of Curve to Start of Curve (Measured on a diagonal) Mid-Point of Curve to Mid-Point of Curve Center to Mid-Point of Curve Curves Layout Curve Radius Skated Radius Marked Track Curve Distance Skated Track Curve Distance Arc Length Between 2 Blocks Angle Between Blocks From Radius Center	$\begin{array}{c} L_{1*}C_{1} \\ \hline \text{Total Track Skated} \\ \hline \text{lius, 100.000 m Skated Track} \\ \hline \text{Formula For Calculation} \\ \hline TD_{2} - C_{2} \\ L_{1}/2 \\ L_{1}/4 \\ \hline (T_{1})^{2} = (R_{1})^{2} + (L_{3})^{2} \\ T_{1} ^{*}2 \\ L_{2} ^{*} + (R_{1} ^{*}2) \\ A_{1}/2 \\ \hline \\ \hline \text{Curve Radius} \\ R_{1} + 0.500 \\ 2^{*}R_{1} ^{*}Pl \\ 2^{*}R_{2} ^{*}Pl \\ C_{1}/12 \\ a/R_{1} \\ \hline \\ 2^{*}R_{1} \cdot \sin(\varnothing/2) \\ \hline \end{array}$	85.0 Value 52.8 26.4 13.2 14.9 29.9 40.4 20.2 7.00 7.56 43.9 47.1 3.66 0.523
TD ₁ TD ₂ L L L L L L L L L L L L L L L L L L L	Total Distance Total Distance at Blocks Total Distance Skated Track Track Dimension Summary: 7.0 m Rad Description Straights Total Length of Straights Length of One Straight Length of 1/2 of One Straight Center to Start of Curve Start of Curve to Start of Curve (Measured on a diagonal) Mid-Point of Curve to Mid-Point of Curve Center to Mid-Point of Curve Center to Mid-Point of Curve Curves Layout Curve Radius Skated Radius Marked Track Curve Distance Skated Track Curve Distance Arc Length Between 2 Blocks Angle Between Blocks From Radius Center (Radians) Chord Distance Between Blocks Total Distance	$\begin{array}{c} L_{1*}C_{1} \\ \hline \textbf{Total Track Skated} \\ \hline \textbf{lius, 100.000 m Skated Track Skated} \\ \hline \textbf{Formula For Calculation} \\ \hline TD_{2} - C_{2} \\ L_{1}/2 \\ L_{1}/4 \\ \hline (T_{1})^{2} = (R_{1})^{2} + (L_{3})^{2} \\ T_{1}^{*2} \\ \hline L_{2}^{*}(R_{1}^{*2}) \\ A_{1}/2 \\ \hline \\ \hline \textbf{Curve Radius} \\ R_{1} + 0.500 \\ 2^{*}R_{1}^{*}PI \\ 2^{*}R_{2}^{*}PI \\ C_{1}/12 \\ a/R_{1} \\ \hline 2^{*}R_{1} \cdot \sin(\varnothing/2) \\ \text{De} \\ \\ \hline \end{array}$	85.0 Value 52.8 26.4 13.2 14.9 29.9 40.4 20.2 7.00 7.56 43.9 47.1 3.66 0.52: 3.62
D ₁ D ₂ L ₁ L ₂ L ₃ T ₁ T ₂ A ₁ A ₂ C ₁ C ₂ a	Total Distance Total Distance at Blocks Total Distance Skated Track Track Dimension Summary: 7.0 m Rad Description Straights Total Length of Straights Length of One Straight Length of I/2 of One Straight Center to Start of Curve Start of Curve to Start of Curve (Measured on a diagonal) Mid-Point of Curve to Mid-Point of Curve Center to Mid-Point of Curve Curves Layout Curve Radius Skated Radius Marked Track Curve Distance Skated Track Curve Distance Arc Length Between 2 Blocks Angle Between Blocks From Radius Center (Radians) Chord Distance Between Blocks	$\begin{array}{c} L_{1*}C_{1} \\ \hline \text{Total Track Skated} \\ \hline \text{lius, 100.000 m Skated Track} \\ \hline \text{Formula For Calculation} \\ \hline TD_{2} - C_{2} \\ L_{1}/2 \\ L_{1}/4 \\ \hline (T_{1})^{2} = (R_{1})^{2} + (L_{3})^{2} \\ T_{1} ^{*}2 \\ L_{2} ^{*} + (R_{1} ^{*}2) \\ A_{1}/2 \\ \hline \\ \hline \text{Curve Radius} \\ R_{1} + 0.500 \\ 2^{*}R_{1} ^{*}Pl \\ 2^{*}R_{2} ^{*}Pl \\ C_{1}/12 \\ a/R_{1} \\ \hline \\ 2^{*}R_{1} \cdot \sin(\varnothing/2) \\ \hline \end{array}$	



DWN. BY A. PHINNEY DATE Sept 19, 2010

DWG No. SSC2010-001 REV.

4 0 4 8m

SCALE 1:200

PROJECT TITLE

60 m, 85 m & 100 m Training Tracks on 25.908 m x 56.388 m Ice

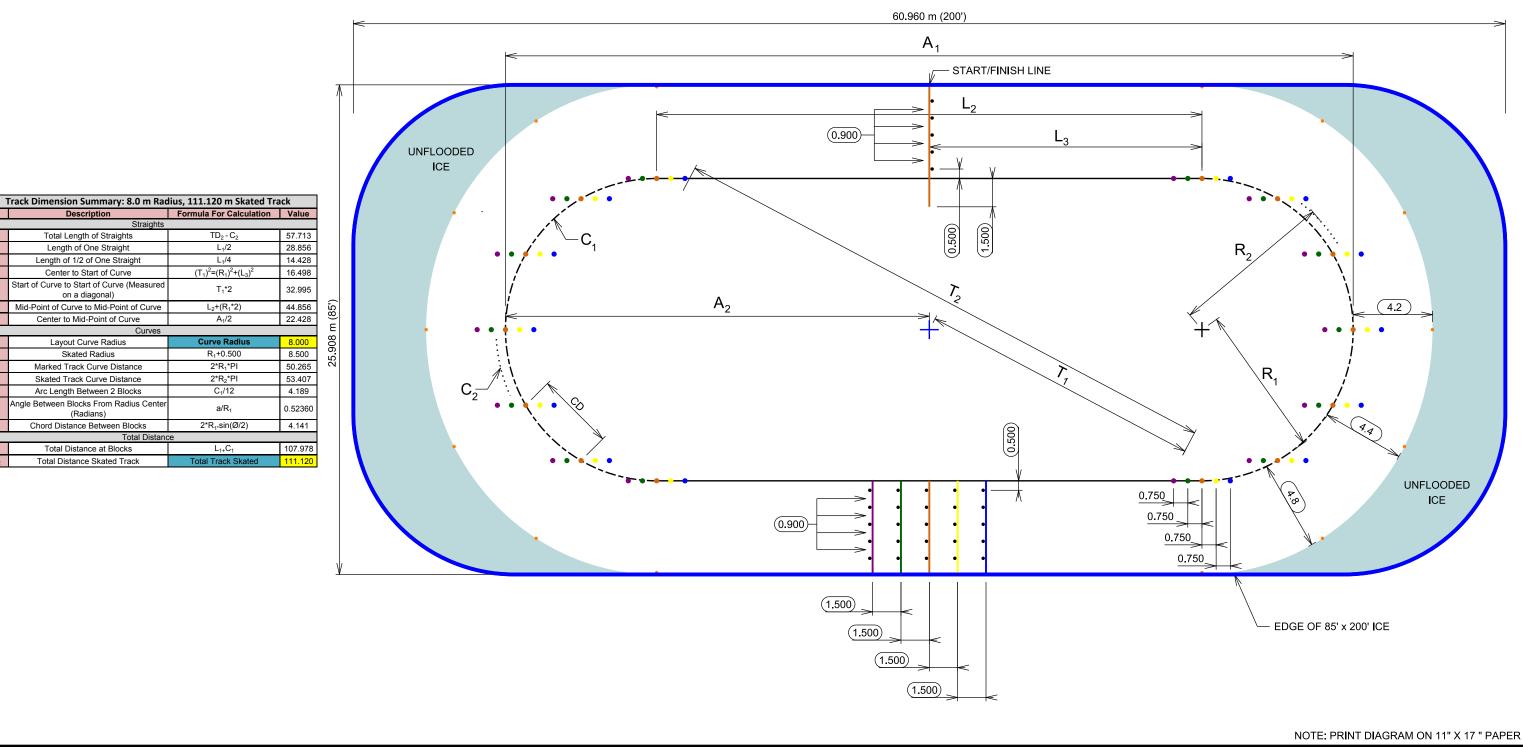
DRAWING TITLE

4 m Radius / 60.000 m Skated 6 m Radius / 85.000 m Skated 7 m Radius / 100.000 m Skated



Speed Skating Canada 2781 Lancaster Road, Suite 402 Ottawa, Ontario, K1B 1A7 Tel: (613) 260-3669 Fax: (613) 260-3660 Email: ssc@speedskating.ca

NOTE: PRINT DIAGRAM ON 11" X 17 " PAPER



DATE Sept 17, 2010 DWN.BY A. PHINNEY SSC2010-008 SCALE 1:200

Total Length of Straights

Length of One Straight

Length of 1/2 of One Straight

Center to Start of Curve tart of Curve to Start of Curve (Measure

Mid-Point of Curve to Mid-Point of Curve

Center to Mid-Point of Curve

Skated Radius Marked Track Curve Distance

Skated Track Curve Distance Arc Length Between 2 Blocks

ngle Between Blocks From Radius Cen

Total Distance at Blocks Total Distance Skated Track L₁/2

L₁/4

T₁*2

L₂+(R₁*2)

A₁/2

Curve Radii

R₁+0.500

2*R₁*PI

2*R₂*PI

C₁/12

a/R₁

2*R_{1*}sin(Ø/2)

 $(T_1)^2 = (R_1)^2 + (L_3)^2$

PROJECT TITLE

111.12 m Racing Track on 25.908 m x 60.960 m lce

DRAWING TITLE

8 m Radius / 111.120 m Skated



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