SHOP DRAWING TRANSMITTAL

	Project:	Turnbull School Room Addition		Project No: 1705			
	Date:	December 10,	0, 2018				
$\perp \prime$	То:	TALCO Buildir	ng Innovations Ltd	ovations Ltd.			
	Attn:	Farah Bano (fl	oano@tal-co.com	com)			
HOBIN	From:	Michelle Catalo	do				
ARCHITECTURE	□ Approval☑ Distribution□ Information and Use□ Review and Comment□ Other		☐ Courier ☐ By Hand ☐ Fax ☐ To Be Picked Up ☐ e-mail				
Partners							
Barry J. Hobin OAA, FRAIC, Hon. Fellow AIA	Shop Drawing Submittal: Submitted by: Drawing Title:		03 00 00 – Concrete Mix Design Tomlinson Concrete Mix Design Submission (Form A)				
William A. Davis OAA, MRAIC, Associate AIA							
Gordon Lorimer OAA, FRAIC, Associate AIA							
Wendy Brawley	Revision No.		N/A				
OAA, MRAIC, Associate AIA Douglas Brooks Senior Arch. Tech.	Dated:		3-Dec-18				
	Comments:						
Directors							
Marc Thivierge	Review.						

OAA, MRAIC

Reinhard Vogel Senior Arch. Tech.

Associates

Bryan Bonell OAA, MRAIC, Associate AIA

William Ritcey MRAIC

Dan Henhoeffer Senior Arch. Tech.

Hobin Architecture Incorporated

63 Pamilla Street Ottawa, Ontario Canada K1S 3K7

t 613-238-7200

f 613-235-2005

OMLINSON

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Tomlinson Ready Mix

5597 Power Road Ottawa, Ontario, K1G 3N4

Tel: (613) 835-3413 Fax: (613) 835-3412

		Conc	rete Mix Des	ign Sub	mission (For	m A)		J
Project: Turnbull School Music Room				Date:	December 3, 2018			
		1132 Fisher Avenue	e, Ottawa, ON		Submitted By:	Michel Bourbonnais, EIT		
Cont	ractor:	TAL-CO Building Ir	novations Ltd.		Contact:	Farah Bano		
Batc	n Plant:	Stittsville Plant		Secondary Plant:	Secondary Plant: Rideau & Vars Plant			
MIX CODE (Please place order with Mix #)				250FT	321SW	251W		
	Application / Element / Location				Footings	Sidewallks, handcurbs, Exterior Slabs	Exterior Foundation Walls and Piers	
z	CSA Evacoura Class				N V	C-2	F-2 🗸	1
2	-CSA Exposure Class -Maximum W/CM Ratio				0.63	0.45	0.55	1
SPECIFICATION		ecified Strength (MPa)			25MPa 🗸	32MPa ✓	25MPa 🗸	
F			m1		20mm 🗸	20mm 🗸	20mm 🗸	1
S		timum Aggregate Size (mr ag Replacement (%)	11)		25%	25%	25%	1
SPI		ica Fume Replacement (%)	//		0%	0%	0%	1
•			0)		0%	5-8%	4-7% ✓	1
	-Plastic Air Co				07.	0 0 /0 /		1
		tent (if specified) (state OF	DSS if applicable)					1
		gate Reactivity	33 ii applicablej		Meets CSA	Meets CSA	Meets CSA	1
****	-Alkalı Aggreç	jale neactivity			75mm	Bomm	The state of the s	1
CONTRACTOR	Slump Range	(mm)			60mm - 110mm	50mm - 110mm	50mm - 110mm	Boma
	Strength @ Ag					32MPa at 28 Days		
AC.		e (MPa)			Zown a at Zo Dayo	ozivii a at zo bajo	Zoilli di di Zo zoiyo	i
F 5	Specialty	Specialty						1
Z 2								1
S		-Concrete Set (Delay, Normal, Accelerated)				Normal	Normal	1
Œ			.teu)		Normal	110111161		1
		Method of Placement Material Source Info.						1
	Material	AND DESCRIPTION OF THE PROPERTY OF THE PROPERT	GU	(kg/m3)	Х	Х	Х	1
	Cement	Lafarge-Bath	GU	(kg/m3)	X	X	X	i
	Cement	Lehigh - Kilmar	Slag	(kg/m3)	X	X	X	1
	SCM	Lehigh-Hamilton Well	Well	(l/m3)	X	X	X	1
	Water		Inv. # K03-076-00			×	X	1
rs LS	Fine Agg.	Burnside-Howe-Ross	Inv. # K03-076-00		X X	X	X	1
ĕ Ş	Coarse Agg.	Tomlinson-Stittsville	MasterAir AE200	(kg/113) (ml/100 kg)	^	X	X	1
出こ	A.E.A.	BASE		(ml/100 kg) (ml/100 kg)	Х	X	X	1
MATERIALS SECTION	W.R.D.A.	BASE	MasterPozzolith 210 MasterSet R100	(ml/100 kg)	X	X	X	1
≥ "	W.R.	BASE		(ml/100 kg)	^	^		i
	H.R.W.R.	BASE	MasterGlenium 7500 MasterSet FP 20	(I/m3)				1
-	N.C.A.	BASF	iviasiersei i F 20	(1/1113)				1
Form Submitted By: Print Name: Michel Bourbonnais, EIT Signature:								
Contractor's Representative:								
Print Name: Signature: Date:								
Notes	1) The "C	oncrete Supplier " provide	es to the contractor a va	alid " Certificat	e of Concrete Producti	on Facilities " as issued	by	
	the RMCAO (copy available upon request). Check www.rmcao.org for an updated list of certified concrete plants. The "Concrete Supplier" certifies that all materials incorporated in the mix designs meet current CSA A23.1 requireme SHOP DRAWING REVIEW							
	3) Concre4) Concre	te Testing shall incorporate te tests not done accordin	<u>www.cmats.com</u> and a to CSA Standards sha	shall be used all not be accer	by the testing company. oted for any basis of mea	asurement.	CUNLIFFE & ASSOCI This review is for the sole purpose of deterr conformance with the Structural Drawings does not mean that Cunliffe & Associates detail design inherent in the shop of responsibility for which remains with the	
	5) The O	vner shall be responsible	for performance "off the	chute" if the o	wner specifies any mate	rial proportion(s).	detail design inherent in the shop dr responsibility for which remains with the submitting the shop drawings. Our review do	rawings. The ie Contractor ses not relieve

Concrete Cylinders as per CSA A23.1 and concrete curing temperatures must remain at 20 °C or above

TOMLINSON

Tomlinson Ready Mix

5597 Power Road

Ottawa, Ontario, K1G 3N4 Tel: (613) 835-3413 Fax: (613) 835-3412

Concrete Mix Design Submission (Form A)								
Pro	ect:		Turnbull School M		Date:	December 3, 2018		
Location/Description: 1132 Fisher Avenue, Ottawa, ON				Submitted By:	Michel Bourbonnais, EIT			
Contractor: TAL-CO Building Innovations Ltd.				Contact:				
Batch Plant: Stittsville Plant				Secondary Plant: Rideau & Vars Plant				
								1
,	MIX	CODI	E (Please place o	order with Mix	#)	351W	250FL	\$ 250 FT?
	Арр	Application / Element / Location				Exterior Retaining Wall	Interior Slabs	
z	-CS	-CSA Exposure Class				C-1	N	
은			/CM Ratio			0.4	0.6	
C A			ecified Strength (MPa)			35MPa 🗸	25MPa	
Ē			kimum Aggregate Size (mr	n)		20mm 🗸	20mm	
SPECIFICATION			ag Replacement (%)			25%	0%	
			lica Fume Replacement (%	(6)		0%	0%	
	-Pla	astic Air C	ontent (%)			5-8% 🗸		
	Dural	bility Req	uirements					
	-Ce	ment Con	tent (if specified) (state Of	PSS if applicable)				
	-Alk	cali Aggreç	gate Reactivity			Meets CSA	Meets CSA	Meets CSA
~ U	\Box					80mm		
는 다	Slum	Slump Range (mm)				50mm - 110mm		
CT	Stren	Strength @ Age (MPa)				35MPa at 28 Days	25MPa at 28 Days	
CONTRACTOR	Spec	Specialty						
CONTRACTOR	Spec	Specialty					and the second	
Ö G	Spec							
0			t (Delay, Normal, Accelera	ted)		Normal	Normal	Normal
	_	od of Plac	A COMPANY OF THE PARTY OF THE P	and the section of the section of the section of		ON AND DESCRIPTION OF THE PARTY		
	Mate	rial		Source Info.				
	Ceme	ent	Lafarge-Bath	GU	(kg/m3)	Х	Х	
	Ceme	ent	Lehigh - Kilmar	GU	(kg/m3)	Х	Х	
	SCM		Lehigh-Hamilton	Slag	(kg/m3)	X		
	Wate		Well	Well	(l/m3)	Х	X	
LS	Fine A			Inv. # K03-076-00		X	X	
IAL	Coars	se Agg.	Tomlinson-Stittsville	Inv. # K03-042-00	(Kg/m3)	X	Х	
出员	A.E.A		BASF	MasterAir AE200		X	V	
MATERIALS	W.R.[J.A.	BASF	MasterPozzolith 210	(ml/100 kg)	X	Х	
≥ "		W D	BASE	MasterSet R100	(ml/100 kg)	Х		
	H.R.V		BASF BASF	MasterGlenium 7500 MasterSet FP 20	(ml/100 kg)			
F	N.C.A		DASE	Master Set 11 20	(l/m3)	L		
Form Submitted By: Print Name: Michel Bourbonnais, EIT Signature: Date: December 3, 2018								
Contractor's Representative: Print Name: Signature: Date:								
Notes		The "C	oncrete Supplier " provide	es to the contractor a va	Signature:	e of Concrete Production	Date: on Facilities " as issued i	OV
140163	17		CAO (copy available upon					,
	2) The "Concrete Supplier" certifies that all materials incorporated in the mix designs meet current CSA A23.1 requirements.							
	3) Concrete Testing shall incorporate www.cmats.com and shall be used by the testing company.					6		
	A) Concrete tests not done according to CSA Standards shall not be accepted for any basis of measurement SHOP DRAWING REVIE							

The Owner shall be responsible for performance "off the chute" if the owner specifies any material proportion(s).

Concrete Cylinders as per CSA A23.1 and concrete curing temperatures must remain at 20 °C or above

5) *)

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This review is for the sole purpose of determining general conformance with the Structural Drawings. This review does not mean that Cunliffe & Associates approves the detail design inherent in the shop drawings. The responsibility for which remains with the Contractor authentiting the shop drawings. Our review does not relieve the contractor of his responsibility for errors or omissions in the shop drawings or meeting the negularismst of the

REVIEWED AS NOTED CHK'D BY NH
REVIEWED DATE 12/07/18

CERTIFICATE OF READY MIXED CONCRETE Production Facilities

is awarded to

TOMLINSON READY MIX Rideau Road Plant

(a member of the Ready Mixed Concrete Association of Ontario) on the basis of a signed statement given by an RMCAO Approved Professional Engineer registered in the Province of Ontario, that he/she has certified the ready mixed concrete production facilities of the above-named plant in accordance with the current RMCAO Audit and Check List for the Certification of Ready Mixed Concrete Production Facilities and that the facilities meet these requirements,

and

on the basis of a signed statement by a responsible official of the Company above-named, that the facilities referred to above will be maintained to the requirements of this Certification and the By-Laws of the Ready Mixed Concrete Association of Ontario.

RMCAO Chair

May 18, 2019

Expiry Date



CERTIFICATE OF READY MIXED CONCRETE Production Facilities

is awarded to

TOMLINSON READY MIX Vars Plant

(a member of the Ready Mixed Concrete Association of Ontario) on the basis of a signed statement given by an RMCAO Approved Professional Engineer registered in the Province of Ontario, that he/she has certified the ready mixed concrete production facilities of the above-named plant in accordance with the current RMCAO Audit and Check List for the Certification of Ready Mixed Concrete Production Facilities and that the facilities meet these requirements,

and

on the basis of a signed statement by a responsible official of the Company above-named, that the facilities referred to above will be maintained to the requirements of this Certification and the By-Laws of the Ready Mixed Concrete Association of Ontario.

RM AO Chair

June 8, 2019

Expiry Date



CERTIFICATE OF READY MIXED CONCRETE Production Facilities

is awarded to

TOMLINSON READY MIX Stittsville Plant

(a member of the Ready Mixed Concrete Association of Ontario) on the basis of a signed statement given by an RMCAO Approved Professional Engineer registered in the Province of Ontario, that he/she has certified the ready mixed concrete production facilities of the above-named plant in accordance with the current RMCAO Audit and Check List for the Certification of Ready Mixed Concrete Production Facilities and that the facilities meet these requirements,

and

on the basis of a signed statement by a responsible official of the Company above-named, that the facilities referred to above will be maintained to the requirements of this Certification and the By-Laws of the Ready Mixed Concrete Association of Ontario.

RM AO Chair

June 8, 2019

Expiry Date



R1025