

2020-02-04

Tel: 416-392-5900 Fax: 416-392-5934

Request for Tenders for Polar Bear Exhibit and Holding Modifications

RFT No.: TZC T 03-2020-01

ADDENDUM 1

This addendum shall be incorporated into, and form part of RFT No.: TZC T 03-2020-01 and take precedence over all requirements of the previously issued bid documents including plans. This addendum must be signed by the bidder (signing officer) in the appropriate space and must be attached to the form for submission by the bidder. This addendum consists of **TWO (2)** page(s) and the documents listed below.

1. CLARIFICATION OF CLOSING DATE:

Closing date: Friday, 2019-02-07 at 12:00 p.m. local time

2. DELETE PRICING FORM:

APPENDIX III

REPLACE WITH PRICING FORM:

Rev 1 – APPENDIX III

3. DELETE DRAWINGS:

A1.01 DEMO EXHIBIT SITE PLAN

A1.02 PROPOSED EXHIBIT SITE PLAN

A1.03 PROPOSED EXHIBIT SERVICE PLAN

REPLACE WITH DRAWINGS:

Rev 1 – A1.01 DEMO EXHIBIT SITE PLAN

Rev 1 – A1.02 PROPOSED EXHIBIT SITE PLAN

Rev 1 – A1.03 PROPOSED EXHIBIT SERVICE PLAN

4. ADD DRAWINGS:

A3.01 DETAILS

A3.02 DETAILS

CG-0 ANIMAL MANAGEMENT REQUIREMENTS

CG-2 POLAR BEAR HOLDING AND VIEWING BUILDING CAGING PLANS

CG-10 POLAR BEAR CAGING DETAILS: HYDRAULIC GUILLOTINE TRANSFER DOOR

CG-11 POLAR BEAR CAGING DETAILS: HYDRAULIC SLIDER TRANSFER DOOR

CG-15 STEEL MESH PANELS & KEEPER DOOR DETAILS

CG-20 CAGING SCHEDULES

E-201 POLAR BEAR HOLDING BUILDING - POWER AND SYSTEMS

Polar Bear - Hydraulic Systems

Polar Bear - Control Panel Double Actuator

Polar Bear - TDS - Biospec Lubs

Receipt of the addendum shall be acknowledged as part of your submission.

The Board of Management of the Toronto Zoo reserves the right to reject any or all quotations or to accept any quotation, should it deem such action to be in its interests.

If you have any queries regarding this matter, please contact Mr. Peter Vasilopoulos, Supervisor, Purchasing & Supply, at 416-392-5916.

Yours truly,

Peter Vasilopoulos
Supervisor, Purchasing & Supply

I/we hereby acknowledge receipt of this addendum and make allowance in my bid.

Signed (Must be Signing Officer of Firm)

Name of Firm

Date

39 ZOO 2020-02-04

TZC T 03-2020-01 POLAR BEAR EXHIBIT & HOLDING MODIFICATIONS PART 5- PRICING FORMS

APPENDIX III - ADDITIONAL PRICES (Due 24 hours after stipulated closing date)

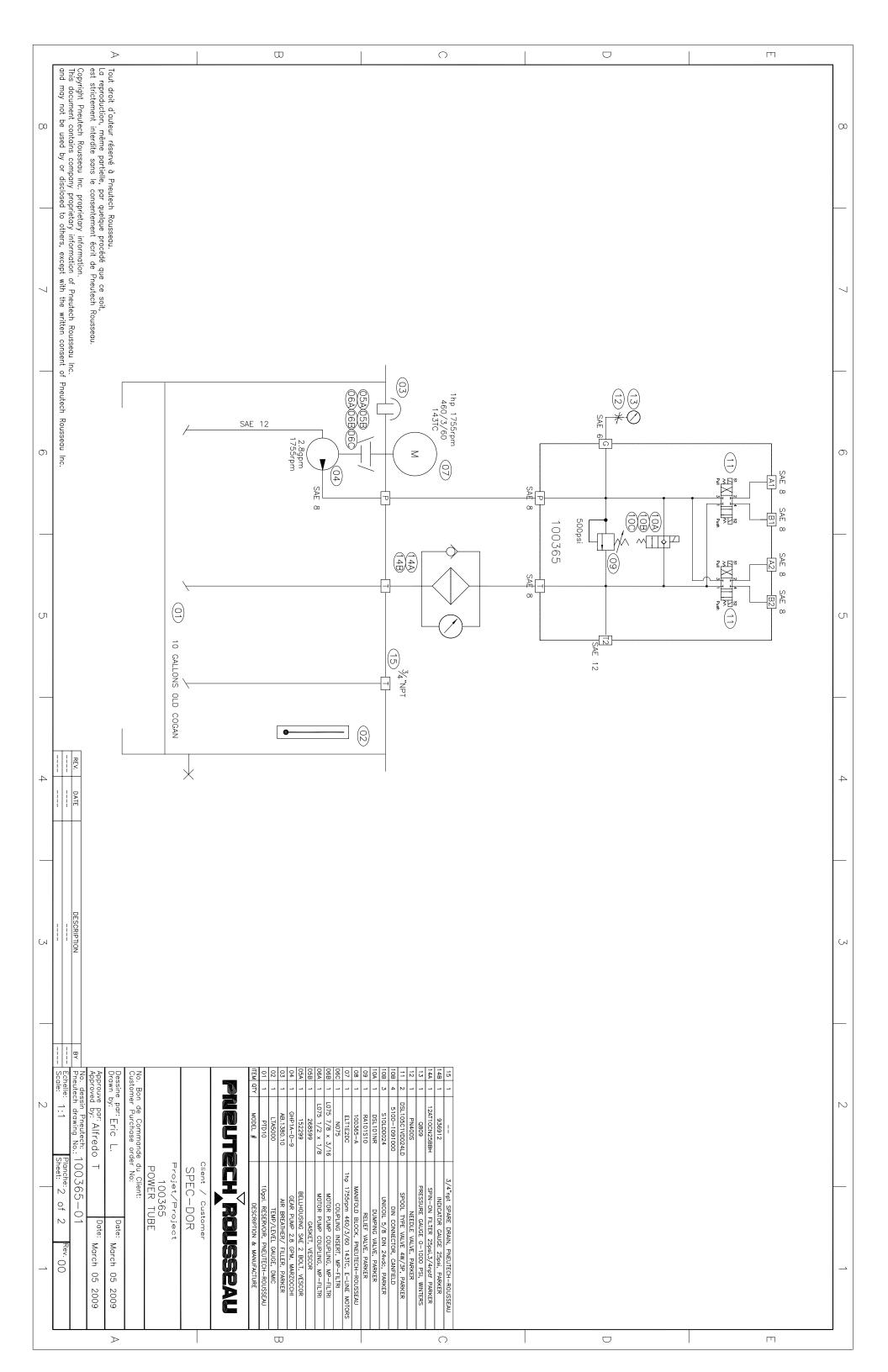
(not included in Total Tender Price)

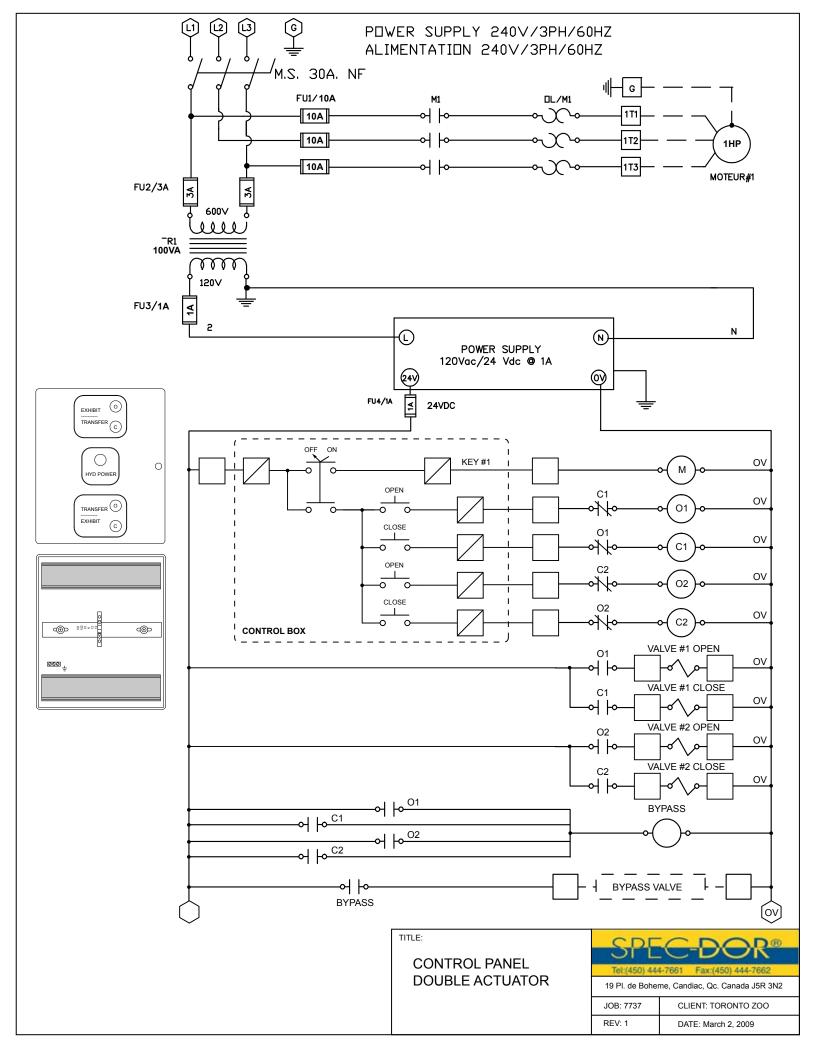
All prices are to include the supply and installation of all labour, material, taxes (excluding Harmonized Sales Tax), charges, payroll, burden and profit.

ITEM DESCRIPTION PRICE

A1	Enlarge animal transfer door between pool & maternity exhibits.	\$ Increase / Reduction
B1	Install shade sail in maternity exhibit	\$ Increase / Reduction
B2	Install shade sail in pool exhibit – over pool	\$ Increase / Reduction
В3	Install shade sail in pool exhibit – over land	\$ Increase / Reduction

^{*} For each item, insert amount in the appropriate column to indicate whether the price change will result in an increase in, or a reduction of, the Total Tender Price.







TECHNICAL DATA SHEET

BIOSPEC LUBS

BIOSPEC LUBS are biodegradable and non toxic lubricants. They are especially formulated to offer optimal performance for any lubricating application, i.e., hydraulic systems, industrial gears, ways, air, pneumatic and percussion tools. These lubricants are manufactured with biodegradable esters and additives approved for incidental contact with food. These lubricants do not affect yellow metals; moreover, they offer superb performance under the most adverse operating conditions. All **BIOSPEC** lubricants offer the following characteristics: 1) superior load carrying capacity and resistance to abrasion 2) superior protection against rust and corrosion 3) outstanding anti-wear properties and 4) higher resistance to oxidation than most conventional biodegradable lubricants. In addition, these lubricants form a tenacious film which increases metal surface protection.

BIOSPEC LUBS are recommended for all rotary drilling and percussion equipment used in mining and exploration of the underground surface. They are also used for the lubrication of the pneumatic tools in the construction and fabrication industries, in applications such as concrete breaking machinery, drilling pumps, riveters and mechanical excavators. BIOSPEC LUBS has been used with success in a wide range of pneumatic equipment manufactured by Chicago Pneumatic, Gardner-Denver and Ingersoll-Rand. Moreover, these lubricants can be utilized when anti-wear hydraulic fluid are required, as well as industrial gear lubricant and/or a way lubricant in machine-tools. BIOSPEC LUBS are true multipurpose lubricants. These lubricants do not contaminate the environment, even with long-term exposure.

CHARACTERISTICS

All **BIOSPEC** fluids possess the following characteristics:

- Virtually no toxicity.
- Biodegradability higher than 70% (OECD 301F).
- Exceptional anticorrosion, antirust, extreme-pressure and anti-wear properties.
- Excellent oxidation stability and high adherence to surfaces.
- Good low temperature properties.
- Excellent anti-foam properties.

ADVANTAGES

- Offers optimal performance in a wide variety of lubricating applications.
- Meets US Steel 224 specifications.
- Prevents rust and corrosion of metal components expose to air and moisture.
- Prevents wear and tear and under harsh operating conditions.

TYPICAL PROPERTIES OF BIOSPEC LUBS

PROPERTIES	TEST	32	46	68
Product code	-	7958	7943	7944
Viscosity grade ISO	-	32	46	68
Viscosity in cSt at 40°C	ASTM D445	33	49	66
Viscosity in cSt at 100°C	ASTM D445	5.5	6.9	9.2
Viscosity index	ASTM D2270	100	95	115
Density in kg/dm ³ at 15°C	ASTM D1298	0.91	0.92	0.92
Color (maximum)	ASTM D1500	1.0	1.0	1.0
Flash point, open cup test, in °C (minimum)	ASTM D92	210	230	230
Pour point in °C (minimum)	ASTM D97	-42	-42	-42
Copper strip corrosion test, 3 hours at 100°C	ASTM D130	1a	1a	1a
Rust test , synthetic sea water	ASTM D665B	Pass	Pass	Pass
Foaming sequence I, 5 minutes after air injection	ASTM D892	15/0	15/0	15/0
Vickers Pump Test 200°F, 3000 psi < 20 mg (maximum Limit = 90 mg)	35VQ25	Pass	Pass	Pass
Timken OK Load in Kg (minimum)	ASTM D2782	32	32	32
FZG stage Pass	DIN 51534	12	12	12
Service temperature in °C (hydraulic)	-	-30 to 115*	-24 to 150*	-23 to 140*
Service temperature in °C (gear)	-	-41 to 115*	-41 to 125*	-41 to 140*

Remark: Although the preceding values are typical properties, they do not represent guaranteed characteristics.

TOTAL LUBRIFIANTS CANADA INC. Tél.: 514.595.7579 800.463.3955 220, Ave Lafleur Fax: 514.367.5767 LaSalle Qc H8R 4C9

PICKERING (ON); Tel.: 905.831.9569

10/2/2008

Fax: 905.831.6240

Page 2

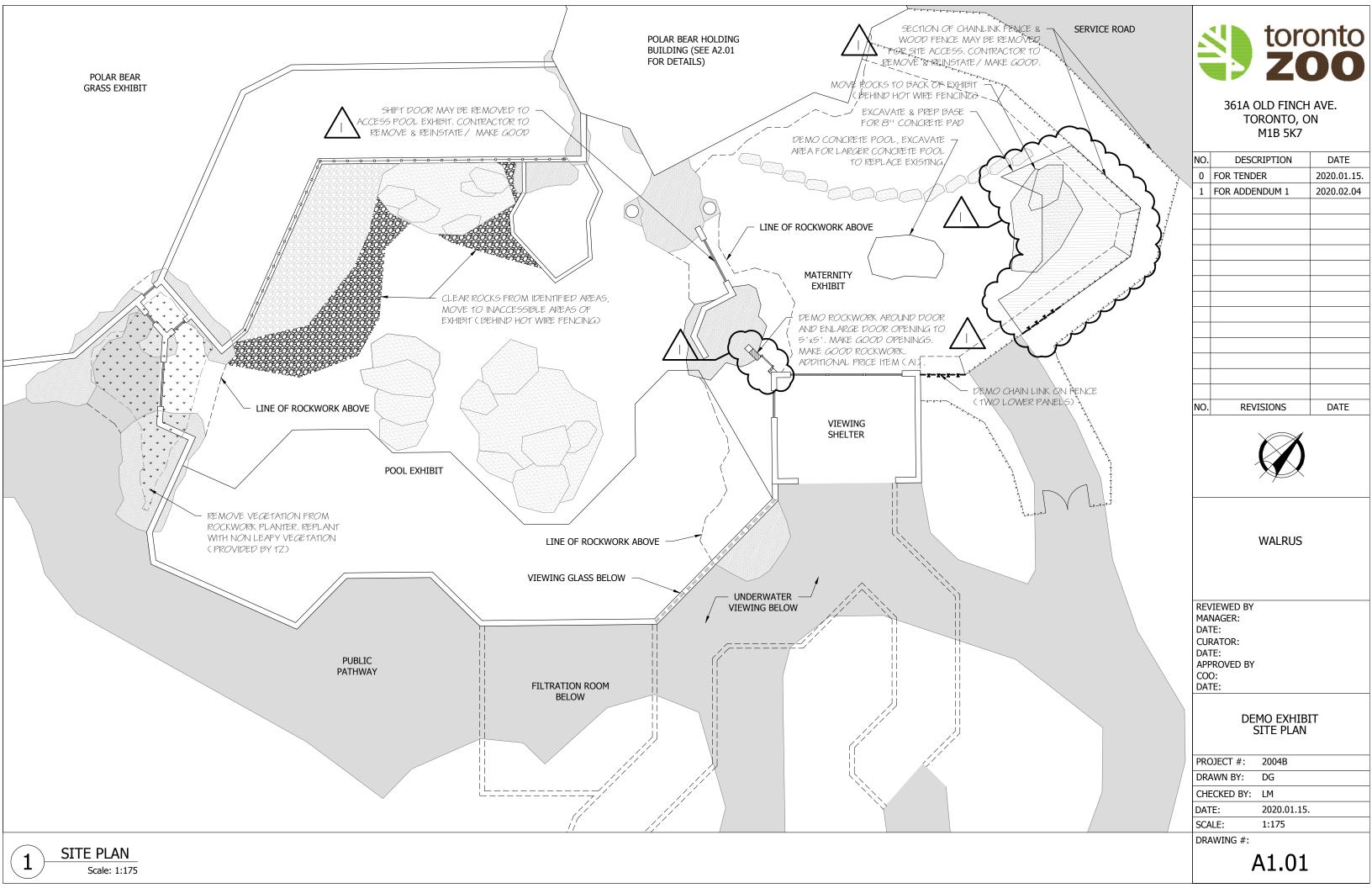
For hydraulic system the lowest service temperature is defined as the temperature at which the oil viscosity reaches 10000 cP, while for gear oil the viscosity is 150000 cP. The system must be in good conditions and not loaded.

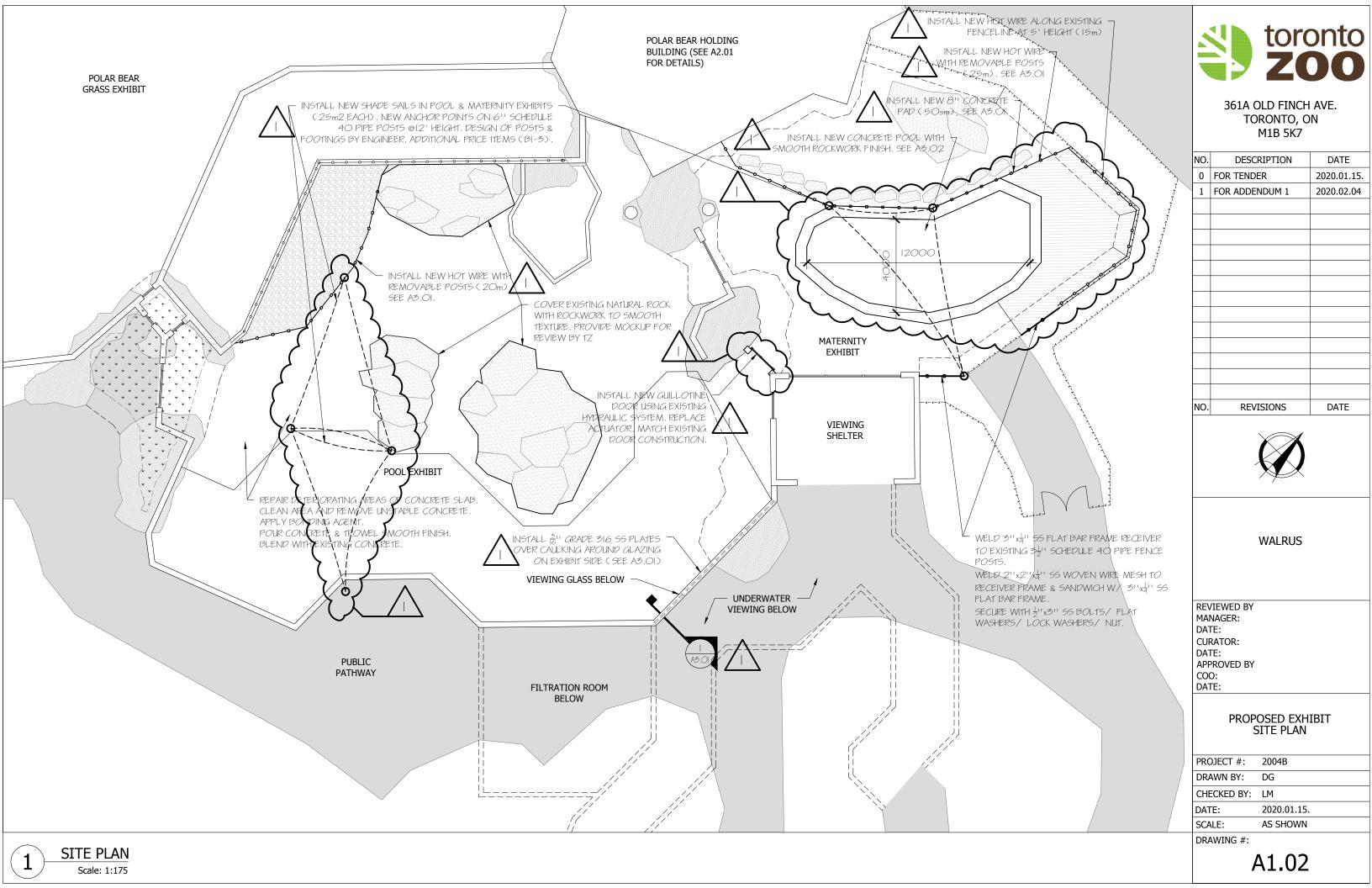
ba	ne upper temperature limits are the sed on manufacturer recomments scosity grade, please verify manu	dations. Value	es may vary from manuta	ty reaches 4.2 cS cturers. To selec	t. These values are t the proper lubricant &
	TOTAL LUBRIFIANTS CANADA INC.	220. Ave Lafleur	LaSalle Qc H8R 4C9	QUÉBEC; Tél.: 418.522.4095	888.654.4095 Fax: 418.522.6717

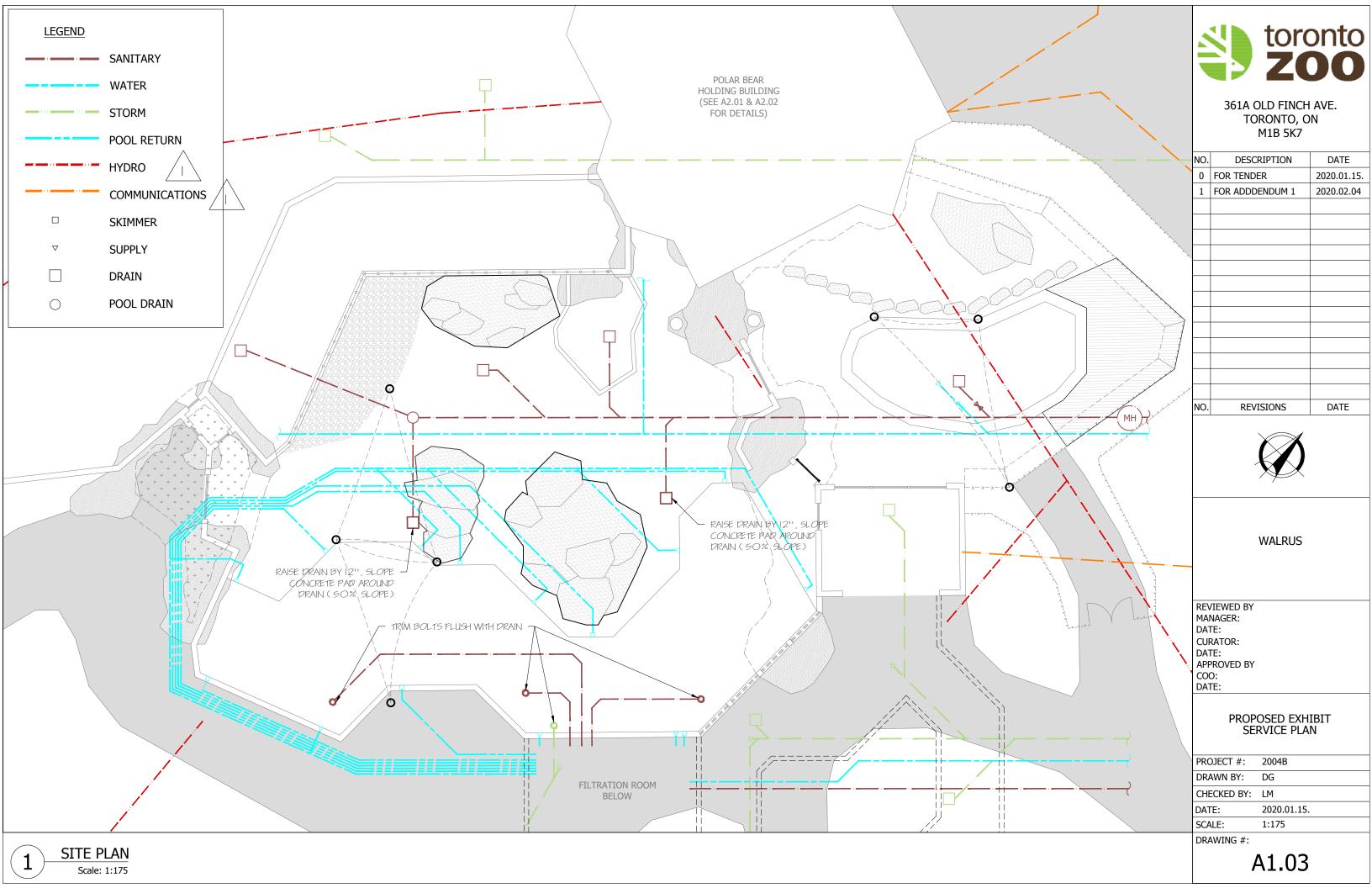
PICKERING (ON); Tel.: 905.831.9569

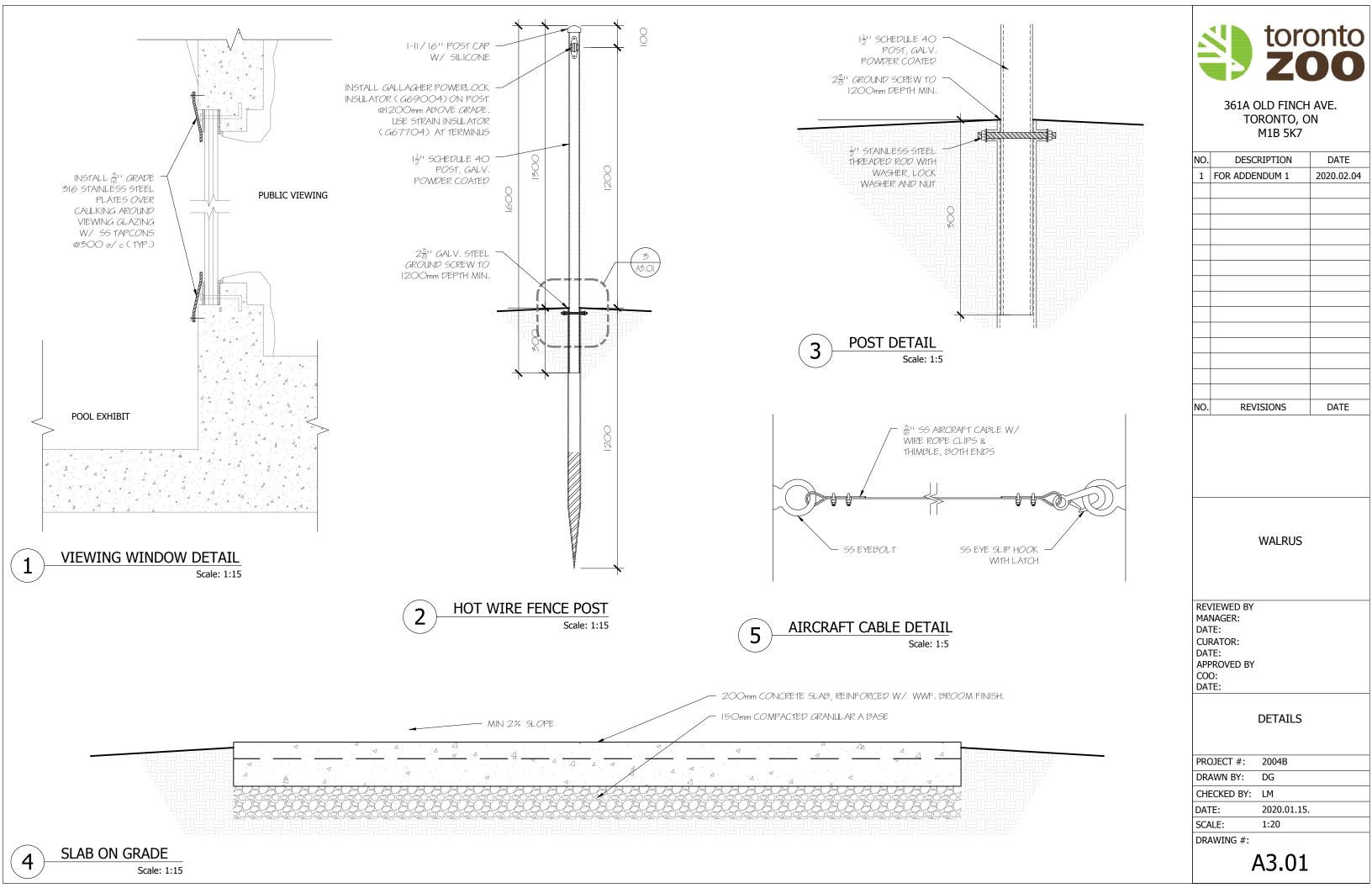
Fax: 905.831.6240

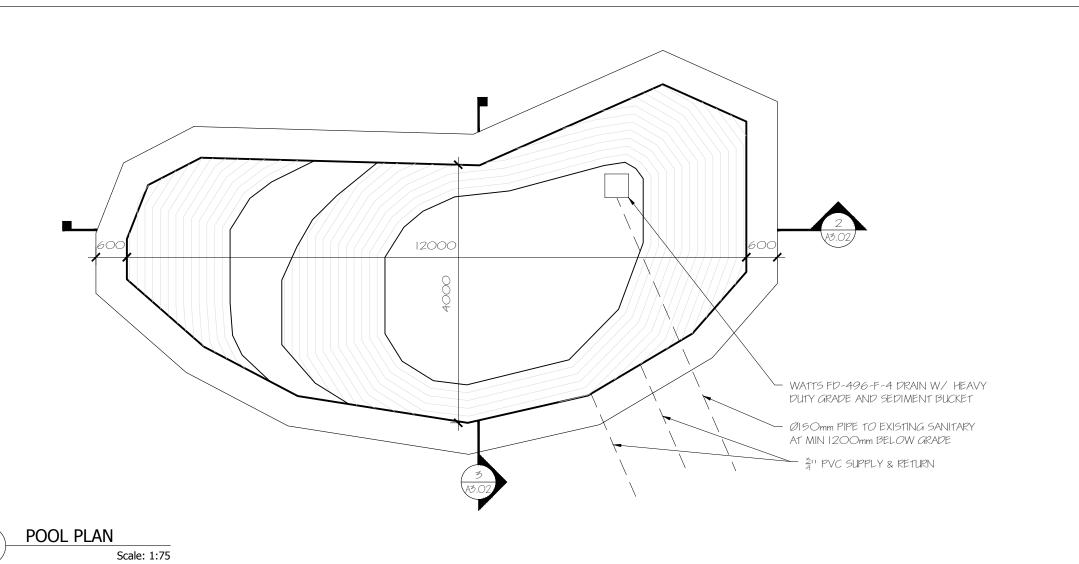
Tél.: 514.595.7579 800.463.3955 Fax: 514.367.5767

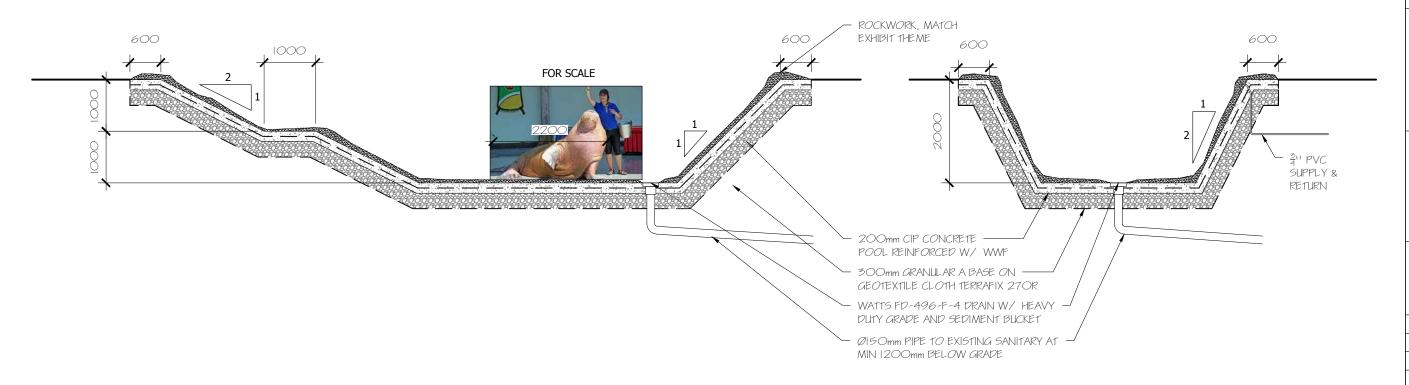














361A OLD FINCH AVE. TORONTO, ON M1B 5K7

NO.	DESCRIPTION	DATE
1	FOR ADDENDUM 1	2020.02.04
NO.	REVISIONS	DATE

WALRUS

REVIEWED BY
MANAGER:
DATE:
CURATOR:
DATE:
APPROVED BY
COO:
DATE:

DETAILS

A	A3.02
DRAWING #:	
SCALE:	1:75
DATE:	2020.01.15.
CHECKED BY:	LM
DRAWN BY:	DG
PROJECT #:	2004B

SECTION
Scale: 1:75

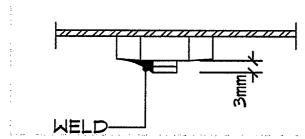
2 SECTION
Scale: 1:75

Caging & Animal Management Requirements of Construction **

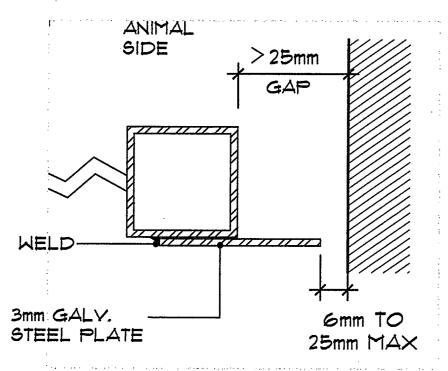
The following items shall be installed and/or performed as part of the Base Work whether or not specifically detailed or noted elsewhere.

1. BOLTS & FASTENERS

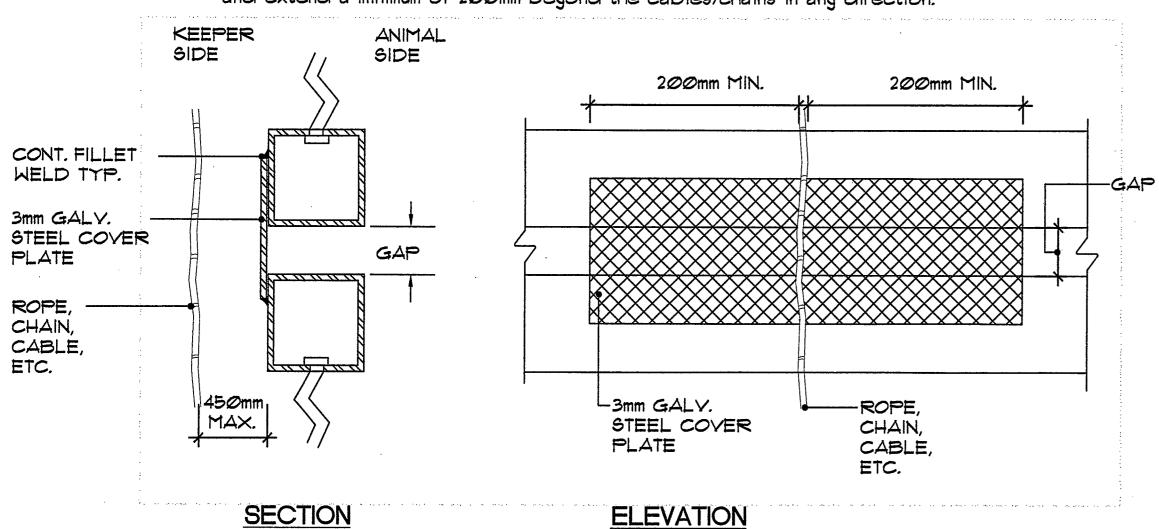
- A. Maximum allowable projection of bolts/studs within animal spaces shall be 3mm. Bolts/studs that are longer, shall be cut back to within the 3mm max. projection, and all sharp edges grounded smooth
- B. Spot weld all exposed fasteners (bolt heads, nuts, etc.) within all animal areas or that are within reach of animals. Minimize welding to caging frames, transfer door frames, or other galvanized surfaces. All welds shall be wire brushed or ground smooth to remove all sharp edges.



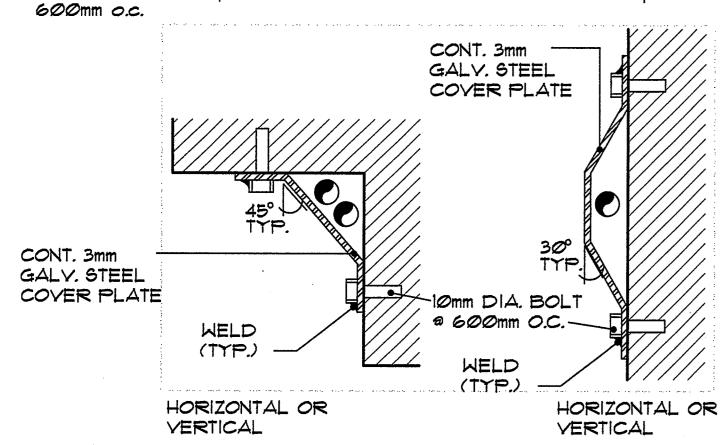
2. All gaps larger than 25mm clear between installed items, installed items and existing construction, shall have a continuous section of 3mm galvanized steel plate welded to the construction to reduce gaps to 25mm or less. This does not apply to any larger gaps specifically detailed (as indicated on the drawings) into the work



3. Guard plates fabricated from 3mm galvanized steel shall be installed wherever exposed conduit, cables, ropes or chains (on the keeper side) occur within 450mm from the face of any gap in the caging construction. These guard plates shall be welded to the caging construction and extend a minimum of 200mm beyond the cables/chains in any direction.

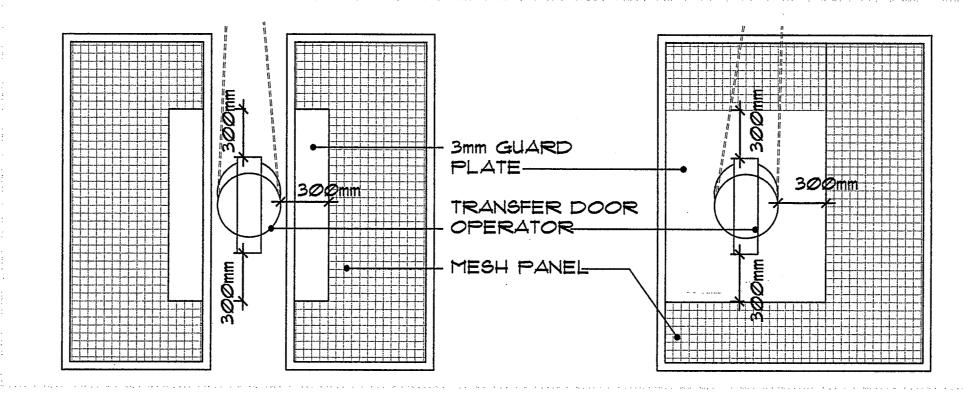


4. Cover plates fabricated from 3mm galvanized steel shall be installed wherever exposed cables, chains, plumbing lines, electric lines, etc., occur within animal rooms and/or bedrooms. Cover plates shall be field bolted with 10mm dia. specified bolt types at max.



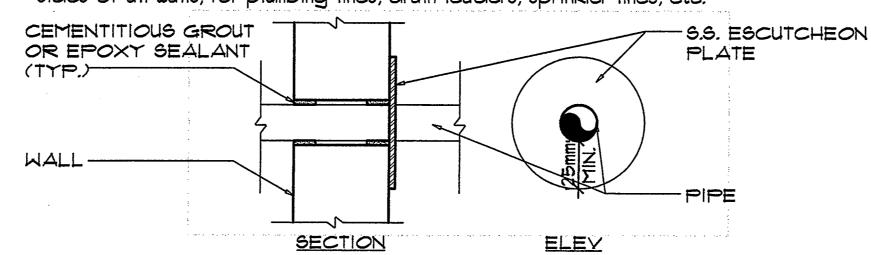
5. In order to minimize vermin infestation, any and all gaps occuring in any adjoining construction shall be caulked and sealed tight with the specified epoxy sealant to the requirements of Section 07900 of the technical specifications.

6. TRANSFER DOOR OPERATORS Wherever a transfer door operator is mounted to the face of a caging panel or adjacent to a caging panel, a 3mm galvanized steel plate shall be installed to prevent animal access to the mechanism.



7. All pipe, duct or other penetration shall be sealed completely with a non-shrink cementitious grout or epoxy sealant, with no voids, cracks, or holes.

A. PIPE PENETRATION Provide stainless steel escutcheon plates at all pipe penetrations on keeper sides of all walls, for plumbing lines, drain leaders, sprinkler lines, etc.



8. All required penetrations of caging shall be coordinated and installed so that penetrations in caging are kept to a absolute minimum. Wherever possible, all penetrations shall be "gang installed" as a group, as one penetration into caging. No matter how many penetrations occur, all gaps at penetrations shall be no larger than 25mm maximum.

** ANIMAL AREAS & ANIMAL MANAGEMENT REQUIREMENTS OCCUR IN ALL: --HOLDING BUILDINGS & FACILITIES --EXHIBIT SPACES -- INDOOR/OUTDOOR TRANSFER AREAS

--ALL ANIMAL FOOD PREP AREAS

NOTE: ALL DIMENSIONS ARE MILLIMETERS (mm) UNLESS OTHERWISE NOTED.

NOTE: See attached Building Code Matrix for Architect's qualification information.

Animal Management Requirements

Project Number 05646 Drawing No. Project Manager JS CG-0 Drawn JM Scale AS SHOWN Date March 2, 2007 Checked JB General Notes:

TUNDRA STORM SOOO



Landscape Architects, Architects & Exhibit Designers
121 N Broad Street, 7th Floor
Philadelphia, PA 19107
(215) 564-0250

(416) 789-2600

372 Bay Street, 18th Floor

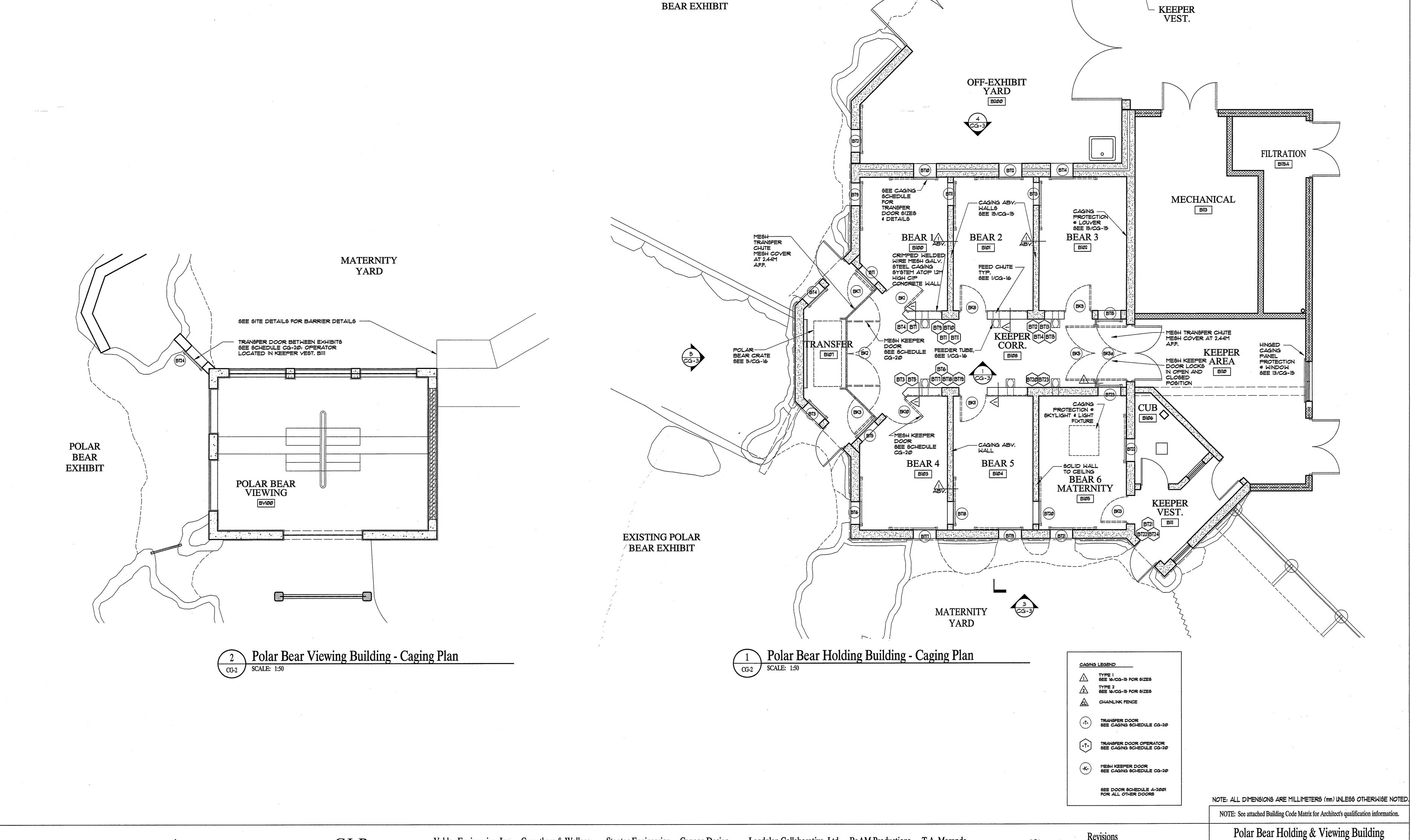
Guelph, Ontario N1H 3W4

Landplan Collaborative, Ltd. BaAM Productions

T.A. Maranda Consultants, Inc.

Revisions

Issued for Tender and Permit - March 2, 2007



CLR design inc. Valdor Engineering, Inc. Carruthers & Wallace A Division of Trow Associates Inc.

661 Chrislea Road, Suite 11 Woodbridge, Ontario LAL 8A3 (905) 264-0054

Structural Engineers

(416) 789-2600

970 Lawrence Avenue W., Suite 600 Toronto, Ontario M6A 3B6

MEP Engineers

(416) 366-0220

372 Bay Street, 18th Floor Toronto, Ontario M5H 2W9

Civil Engineers

Landscape Architects, Architects & Exhibit Designers
121 N Broad Street, 7th Floor
Philadelphia, PA 19107
(215) 564-0250

TUNDRA STORM TORONTO PROJECT STORM ZOO

NEW POLAR

MESH COVER AT -2.44M AFF.

Revisions

Issued for Tender and Permit - March 2, 2007

T.A. Maranda Consultants, Inc.

Water Systems Engineers

Landplan Collaborative, Ltd. BaAM Productions

Associated Landscape Architect

Guelph, Ontario N1H 3W4

(519) 824-8664

Interpretive Design

(800) 703-0740

662 King Street West, Suite 101 8616 Blue Grouse Way Toronto, Ontario M5V 1M7 Blaine, WA 98230

FILTRATION

HINGED — CAGING PANEL PROTECTION WINDOW

SEE 13/CG-15

Caging Plans

Scale 1:50
Date March 2, 2007

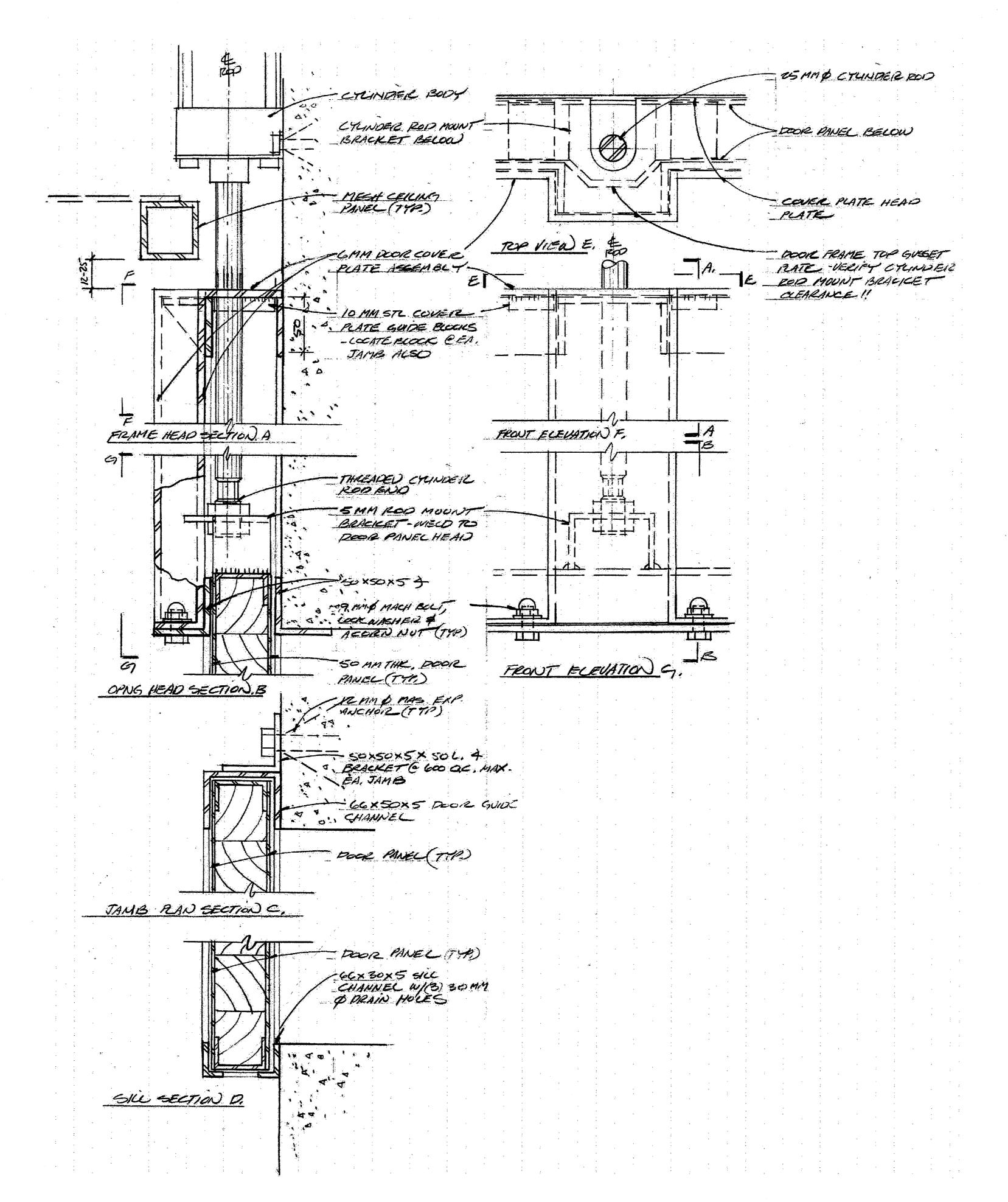
Drawing No.

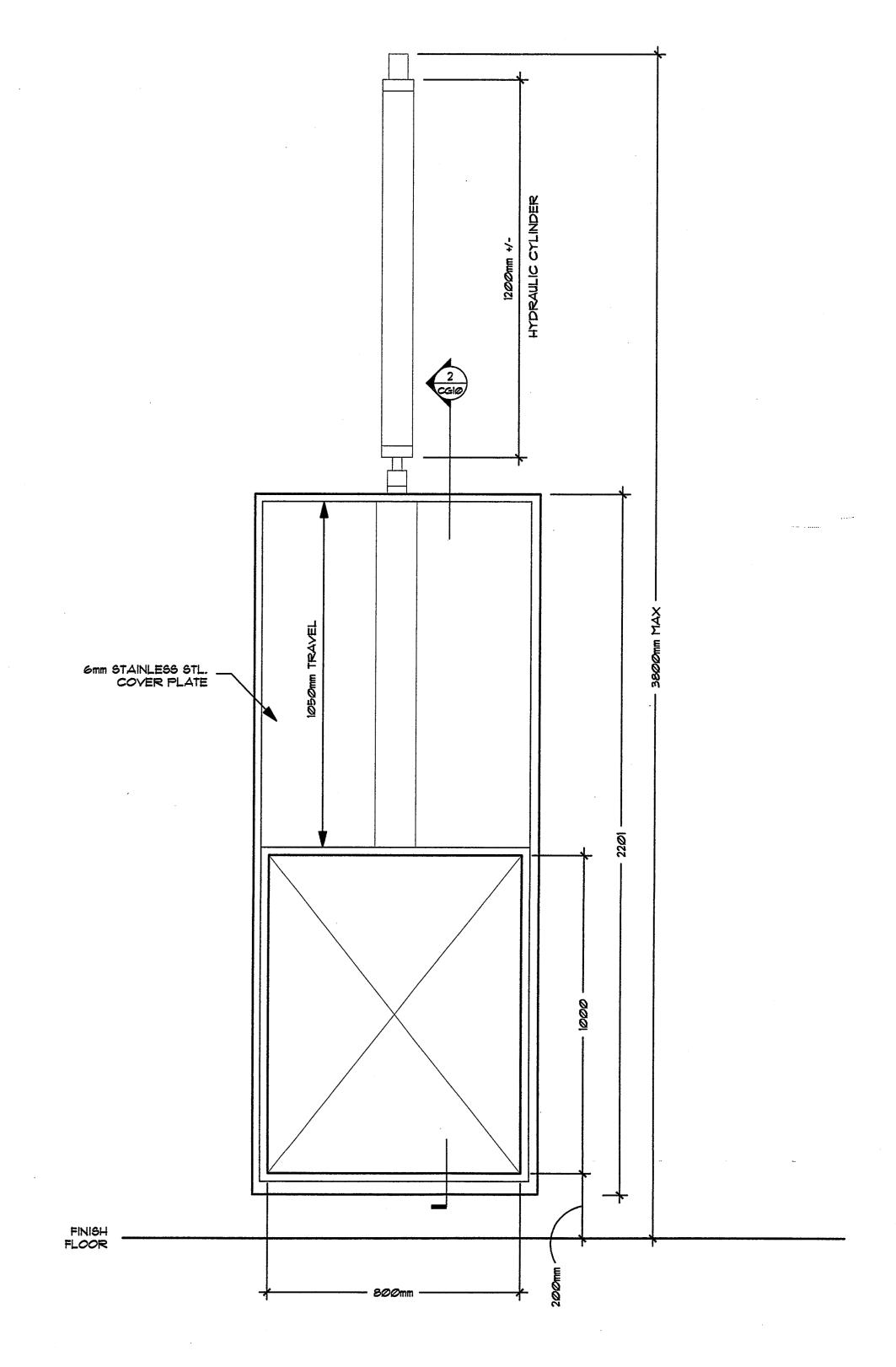
CG-2

Project Number 05646
Project Manager JS

Drawn JK Checked JB

General Notes:





Single Door - Hydraulic Guillotine Elevation

Single Door - Hydraulic Guillotine Section

NOTE: ALL DIMENSIONS ARE MILLIMETERS (mm) UNLESS OTHERWISE NOTED.

NOTE: See attached Building Code Matrix for Architect's qualification information.

TUNDRA STOROLO ZOO

Landscape Architects, Architects & Exhibit Designers
121 N Broad Street, 7th Floor
Philadelphia, PA 19107
(215) 564-0250

CLR_{design inc.} Valdor Engineering, Inc. Carruthers & Wallace Stantec Engineering Cannon Design Civil Engineers

(905) 264-0054

Structural Engineers Woodbridge, Ontario L4L 8A3

Toronto, Ontario M5H 2W9 (416) 789-2600 (416) 366-0220

Guelph, Ontario N1H 3W4 (519) 824-8664

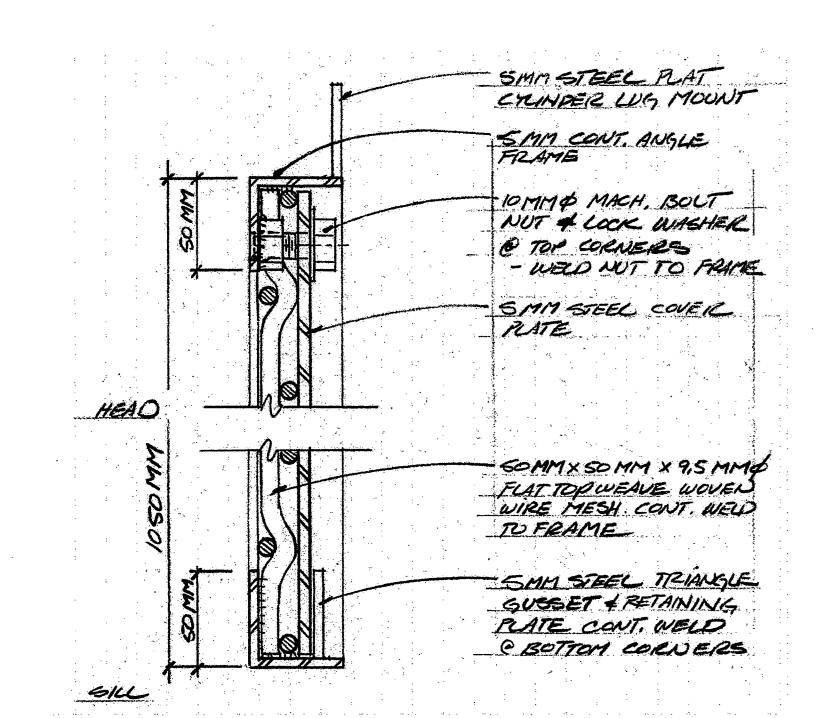
Landplan Collaborative, Ltd. BaAM Productions

T.A. Maranda Consultants, Inc. 662 King Street West, Suite 101 8616 Blue Grouse Way Toronto, Ontario M5V 1M7 Blaine, WA 98230

Revisions Issued for Tender and Permit - March 2, 2007

Polar Bear Caging Details: Hydraulic Guillotine Transfer Door Project Number 05646 Drawing No.

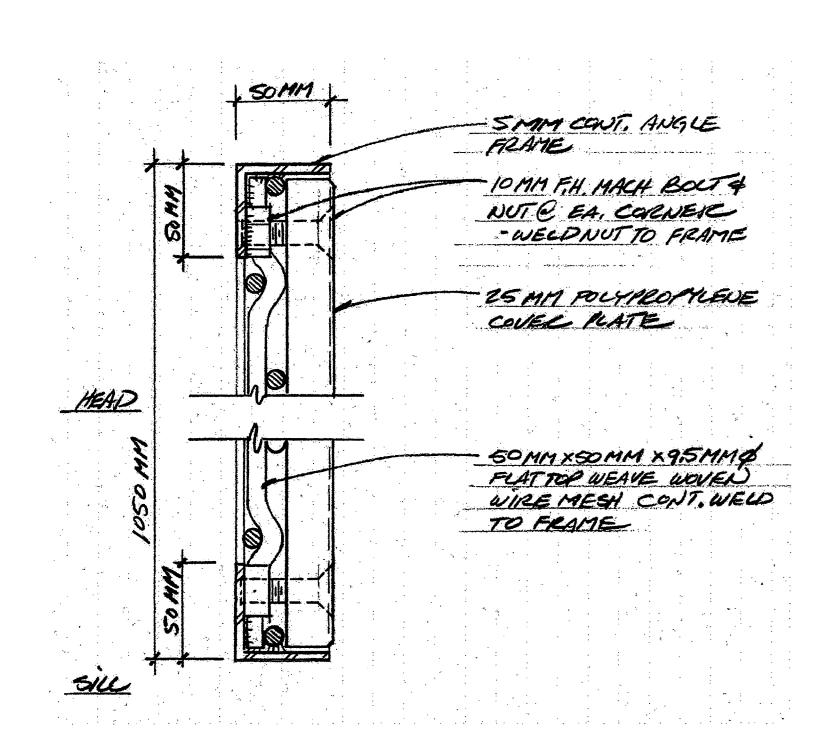
Project Manager JS CG-10 Drawn JM Scale AS SHOWN
Checked Date March 2, 2007 General Notes:



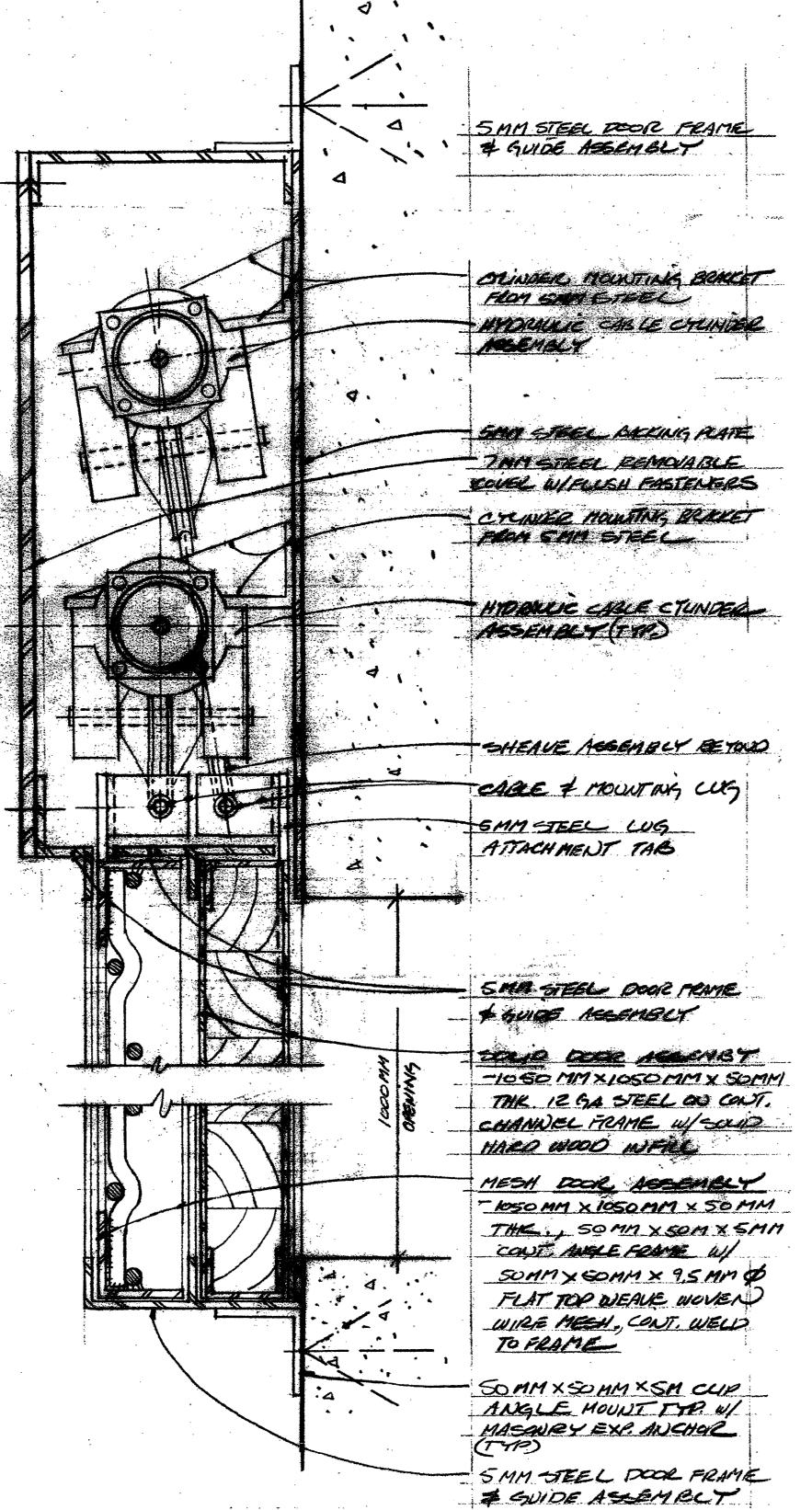
Alt. Assembly 'A': Single Door Panel Hyd. Slider

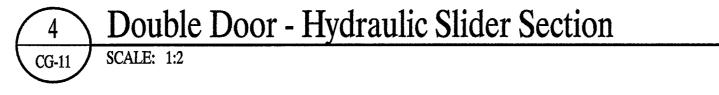
CG-11 SCALE: 1:2

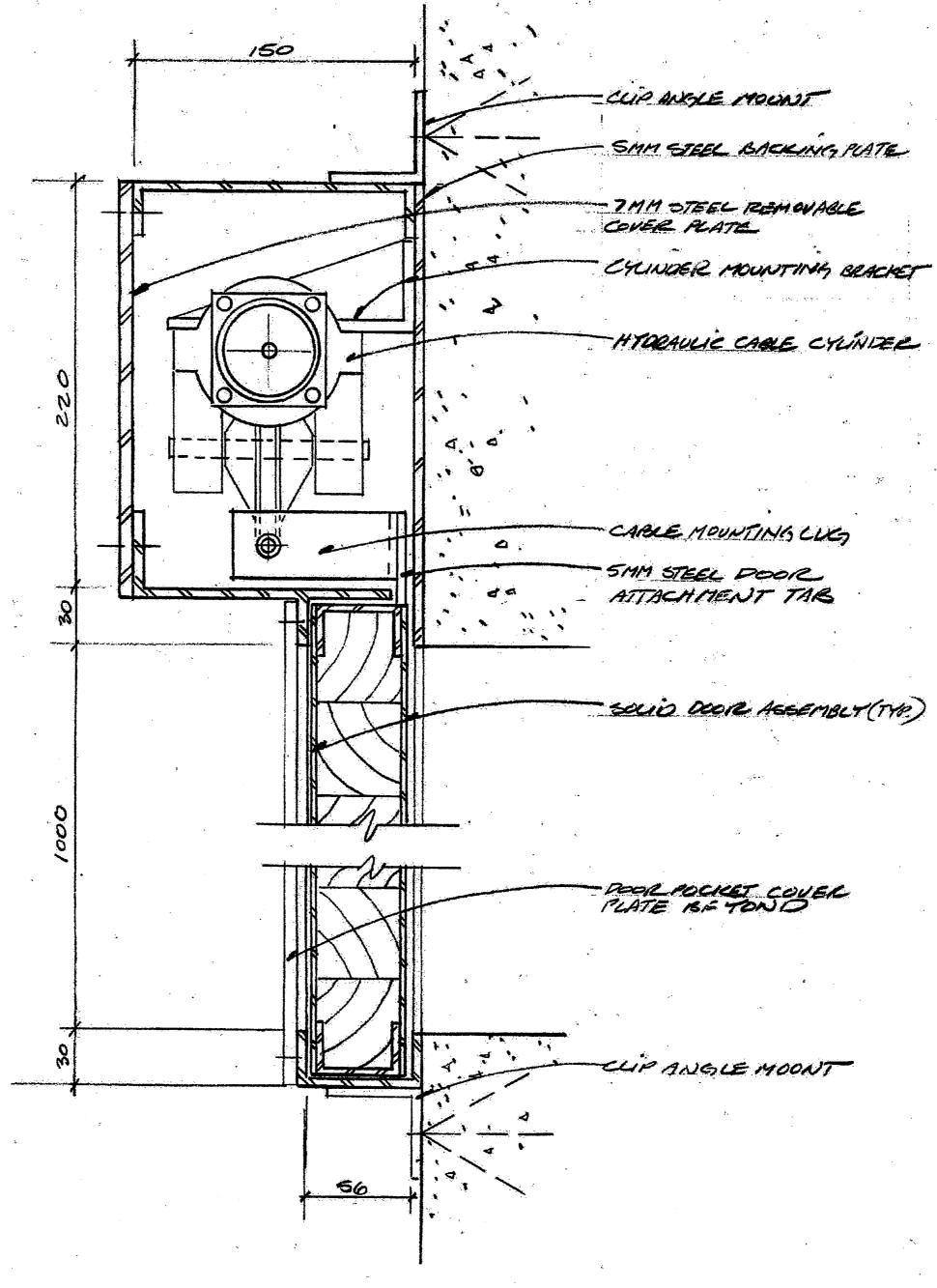
CG-11 SCALE: 1:2



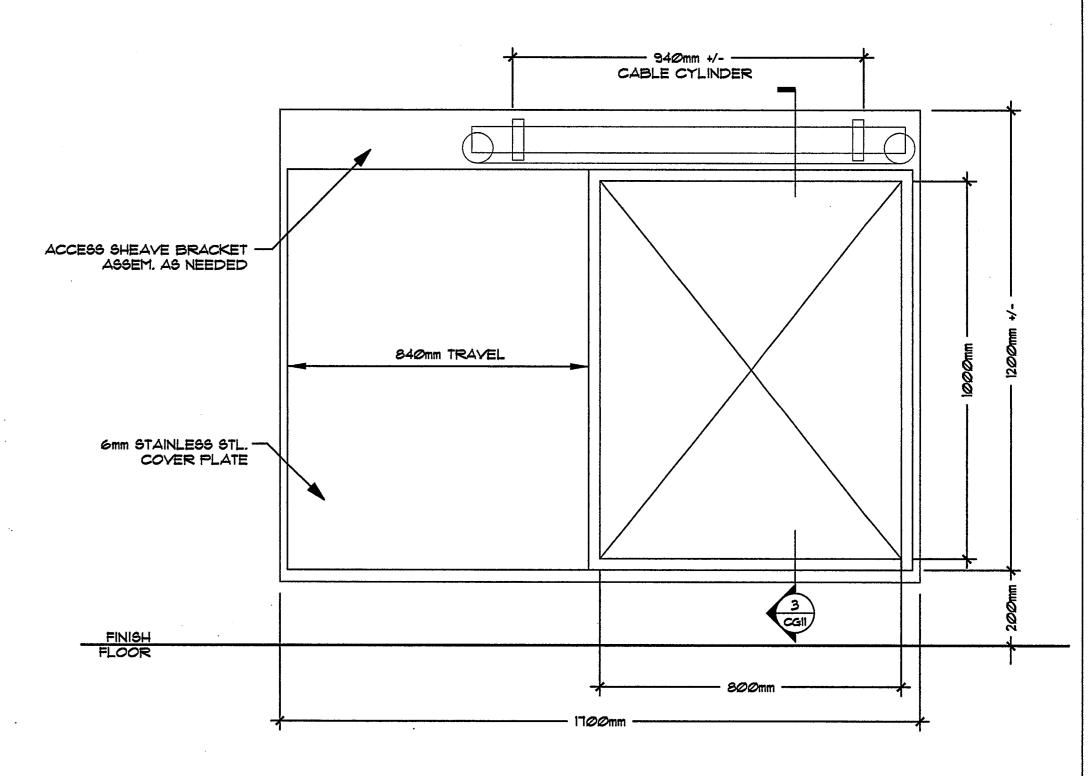
Alt. Assembly 'B': Single Door Panel Hyd. Slider



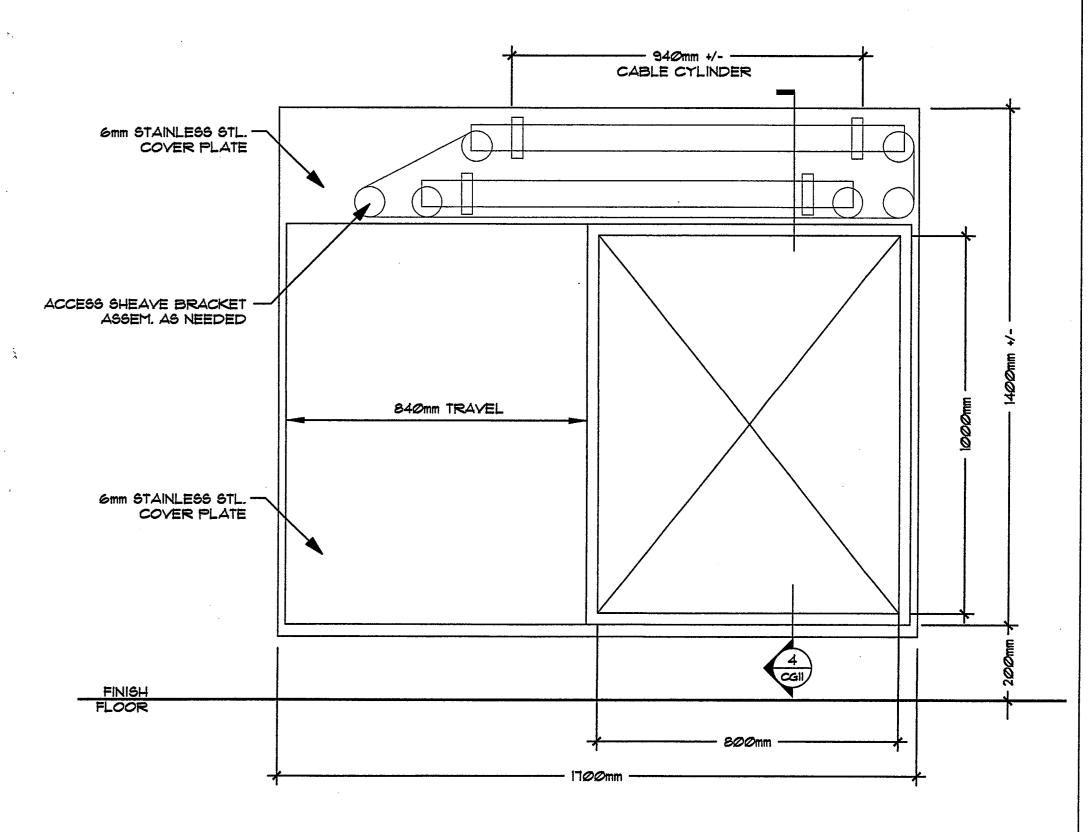




Single Door - Hydraulic Slider Section



Single Door - Hydraulic Slider Elevation CG-11 | SCALE: 1:10



Double Door - Hydraulic Slider Elevation

Issued for Tender and Permit - March 2, 2007

TUNDRA STORTO ZOO

Landscape Architects, Architects & Exhibit Designers 121 N Broad Street, 7th Floor Philadelphia, PA 19107 (215) 564-0250

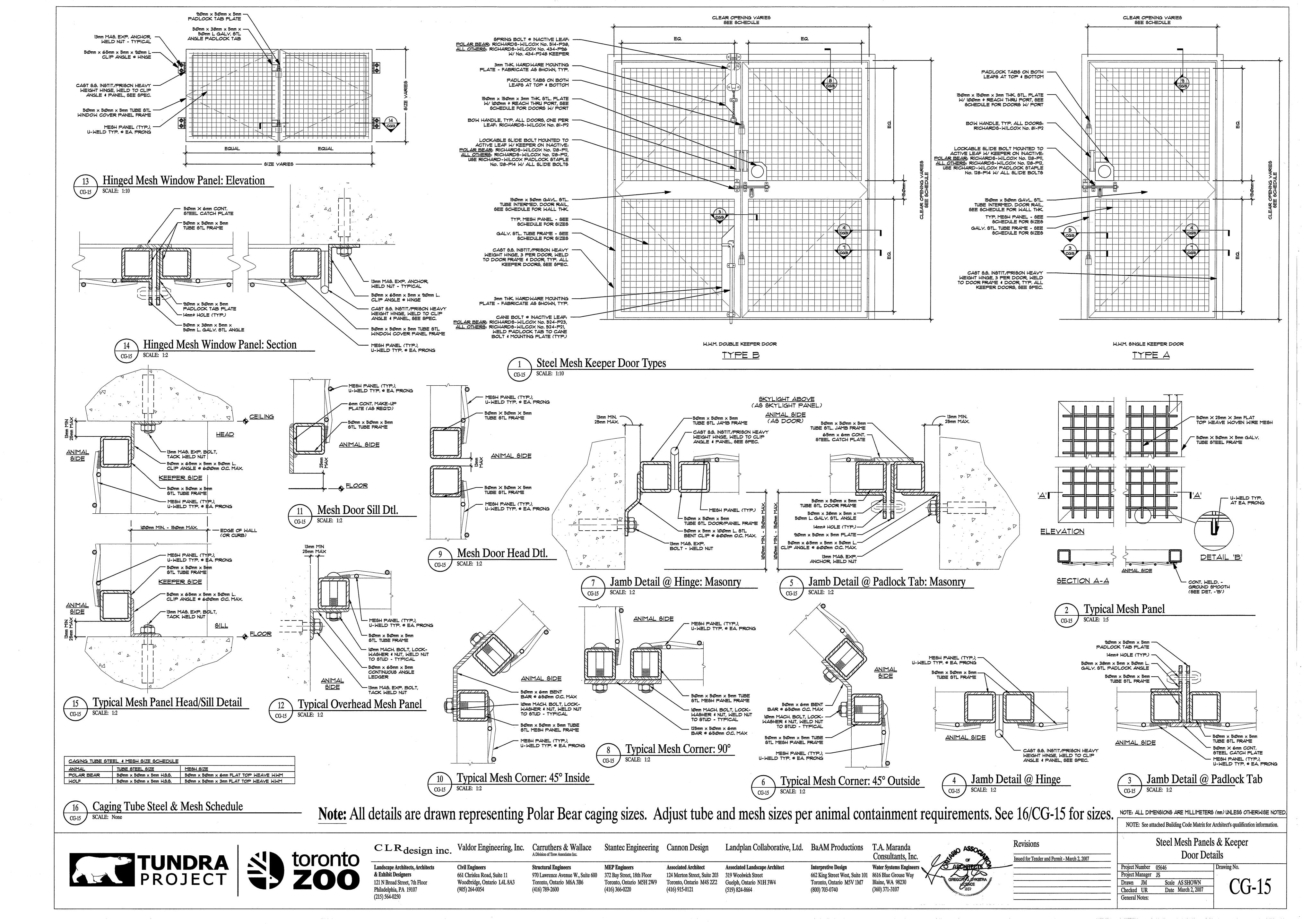
Structural Engineers

Consultants, Inc

NOTE: ALL DIMENSIONS ARE MILLIMETERS (mm) UNLESS OTHERWISE NOTED NOTE: See attached Building Code Matrix for Architect's qualification information. Polar Bear Caging Details: Revisions

> Hydraulic Slider Transfer Doors Project Number 05646
> Project Manager JS Drawing No. CG-11 Drawn JM Scale AS SHOWN Checked
> General Notes: Date March 2, 2007

CLR design inc. Valdor Engineering, Inc. Carruthers & Wallace A Division of Trow Associates Inc. Landplan Collaborative, Ltd. BaAM Productions T.A. Maranda Civil Engineers **Interpretive Design** MEP Engineers **Associated Landscape Architect** 661 Chrislea Road, Suite 11 Woodbridge, Ontario L4L 8A3 372 Bay Street, 18th Floor 124 Merton Street, Suite 2 662 King Street West, Suite 101 8616 Blue Grouse Way 319 Woolwich Street Toronto, Ontario M4S 2Z2 Toronto, Ontario M5H 2W9 Guelph, Ontario N1H 3W4 (905) 264-0054 (416) 366-0220 (416) 915-0121 (800) 703-0740 (519) 824-8664



olar Bea	r	Type 1	Mesh Size 50mm x 50mr	n	Mesh Gauge 6mm GA		Size x 50mm x	5mm	Max. Gar 25 mm	p										****
NIMAL OCATIO	TRANSFE	R DOORS	TYPE			MATE	RIAL	Removabl	DOOR S	SIZE	ROUGH O	PENING		MOUN				OPERATO	OR	
umber T1 T2	From B100 YARD	To B107 EXHIBIT	Description Guillotine	1/CG-10			Mesh	Panel	Width	Height	Width 800	Height 1000	Sill Height 200mm	X	y Caging	Ref. Detail 2/CG-10		Hydraulic		BT1
T3 T4	B107 B107	EXHIBIT EXHIBIT	Slider Single Guillotine Guillotine	1/CG-10 1/CG-10	Hydraulic	X					800 800 800	1000 1000 1000	200mm 200mm 200mm	X X X		3/CG-11 2/CG-10 2/CG-10	Hydraulic	Hydraulic Hydraulic Hydraulic	See Spec.	BT2 BT3 BT4
T5 T6 T7	B103 B103 NOT	B107 EXHIBIT USED	Guillotine Slider Single	1/CG-10 1/CG-11	Hydraulic Hydraulic						800 800	1000 1000	200mm 200mm	X		2/CG-10 3/CG-11	Hydraulic	Hydraulic Hydraulic	See Spec.	BT5 BT6 BT7
T8 T9 T10		USED EXHIBIT YARD	Slider Single Double Slider		Hydraulic						800	1000	200mm	X		3/CG-11		Hydraulic		BT8 BT9
T11 T12	B101 B101	B100 YARD	Slider Single Double Slider	1/CG-11 2/CG-11	Hydraulic Hydraulic Hydraulic	Х	X	X			800 800 800	1000 1000 1000	200mm 200mm 200mm	X		4/CG-11 3/CG-11, 4/5/CG-11 4/CG-11	Hydraulic	Hydraulic Hydraulic Hydraulic	See Spec.	BT10 BT11 BT12
T13 T14 T15*	B102 B102 TRANSFER	YARD B102	Slider Single Double Slider Guillotine		Hydraulic Hydraulic Hydraulic	Х	X	X			800 800 800	1000 1000 1000	200mm 200mm 200mm	XXX		3/CG-11, 4/5/CG-11 4/CG-11 2/CG-10	Hydraulic	Hydraulic Hydraulic Hydraulic	See Spec.	BT13 BT14 BT15*
Γ 16 Γ17 Γ18	NOT B103 B103	USED MATERNITY B104	/ Double Slider Slider Single		Hydraulic Hydraulic		X	v			800 800	1000	200mm 200mm	X		4/CG-11	Hydraulic	Hydraulic	See Spec.	BT16 BT17
T19 T20	B104 B105	MATERNITY B104	/ Double Slider Slider Single	2/CG-11 1/CG-11	Hydraulic Hydraulic	Х	X	X			800 800	1000 1000	200mm 200mm	X		3/CG-11, 4/5/CG-11 4/CG-11 3/CG-11, 4/5/CG-11	Hydraulic Hydraulic	Hydraulic Hydraulic Hydraulic Hydraulic	See Spec.	BT18 BT19 BT20
	B105 TRANSFER	B106 B105	/ Double Slider Slider Single Guillotine	1/CG-11 1/CG-10			X	X			800 800 800	1000 1000 1000	200mm 200mm 200mm	X		4/CG-11 3/CG-11, 4/5/CG-11 2/CG-10	Hydraulic	Hydraulic Hydraulic Hydraulic Hydraulic	See Spec.	BT21 BT22 BT23*
T24 CONNEC		MATERNITY RALARM. SE	Guillotine EE E-201 (Doors	1/CG-10 BT15, BT23)		X					800	1000	200mm	Х		2/CG-10		Hydraulic		BT24
EEPER	DOORS &																			
OCATIO umber I <1*		To B100	TYPE Swing	Solid	Mesh	Width 850mr			OPENIN Catch 5/CG-15	Elevation	Mounting Type	Hardware HWK1	DETAIL Notes	Number BK1*						
(2* (3* (4	B108 B108	B107 B107	X		X	2300m 900mr	m 2150mr n 2150mr	n 4/CG-15 n 4/CG-15	3/CG-15 3/CG-15	1/CG-15 1/CG-15	B	HWK3 HWK1	Lock operable both sides of	BK2* of door BK3*						
(5 (5a	B108 TRANSFER	VESTIBULE TRANSFER TRANSFER	X		X	1910m 1910m	m 2150mr m 2150mr m 2150mr	n 4/CG-15 n CG-7		1/CG-15 1/CG-15	B B	HWK1 HWK3 HWK3	Lock operable both sides of Lock operable both sides operable sides op	of door BK5						
(6 (7* (8*	VESTIBULE B108 B108	YARD B107 B101	X X		X	900mr	n 2150mr n 2150mr n 2150mr	n 4/CG-15	5/CG-15 3/CG-15 3/CG-15	1/CG-15	A	HWK1 HWK1 HWK1	Lock operable both sides of Lock operable both sides operable sides operable s		-					
(9* (10* (11*	B108 B108 B108	B102 B103 B104	X X X		X	850mn 850mn	n 2150mr n 2150mr	n 7/CG-15 n 4/CG-15	3/CG-15 5/CG-15	1/CG-15 1/CG-15	A	HWK1 HWK1		BK9* BK10*	<u></u>					
(12 (13*		USED B105	X		X		n 2150mn n 2150mn	n 7/CG-15 n 7/CG-15		1/CG-15	A	HWK1		BK11* BK12 BK13*	-					
CONNEC	T TO DOOF	RALARM. SE	E E-201 (Doors	BK1, BK2, BI	K3, BK7, BK8,	BK9, BK1	0, BK11, B	K13)					-	•	-		•			
OCATIO umber F	rom	To	Swing	Slider	Hand	Solid	Mesh		Width	Height	Hinge	Catch	Elev. Type	Type	Hardware	Notes	Number	-		
mber F (1 700 W(From PUBLIC OLF HOLD	EXHIBIT	X	Silder	Hand 	Solid	Mesh X		Width 1800	Height 2150	Hinge 5/CG-15	Catch	Elev. Type 1/CG-15	Type B	Hardware HWK3	Notes S.S. Woven Wire Mesh	Number OK1			
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700 WCAGING imal olf	PUBLIC OLF HOLDI FRANSFER N W100 W100 W101 W106 W106 W107	Mesh Type Type 2 DOORS To W001 W101 W002 CHUTE W107 CHUTE	Mesh Size 50mm x 50mm TYPE Description Guillotine Guillotine Guillotine Guillotine Guillotine Guillotine Guillotine Guillotine	Ref. Detail 2/CG-13 2/CG-13 2/CG-13 2/CG-13 2/CG-13	Mesh Gauge 3mm GA Operator CW Cable CW Cable CW Cable CW Cable CW Cable CW Cable	Tube Si 50x50x5 MATER Poly	ze 5mm	25mm ROUGH O Width 610mm 610mm 610mm 610mm 600mm	PENING Height 1000mm 1000mm 1000mm 600mm 600mm 600mm	Sill Height 200mm 200mm 200mm 200mm 200mm 200mm	MOUNTING Conc./	Catch 3/CG-15	Ref. Detail 9/CG-13 7/CG-13 9/CG-13 9/CG-13 9/CG-13 9/CG-13	Padlock 4/CG-13 4/CG-13 4/CG-13 4/CG-13 4/CG-13	OPERATOR Type B A B B A B B A	Ref. Detail 1/CG-13 1/CG-13 1/CG-13 1/CG-13 1/CG-13 1/CG-13	Notes	WT1 WT2		
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CLR design inc. Valdor Engineering, Inc. Carruthers & Wal

Issued for Tender and Permit - March 2, 200

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	Project Manager	JS
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Drawing No. CG-20

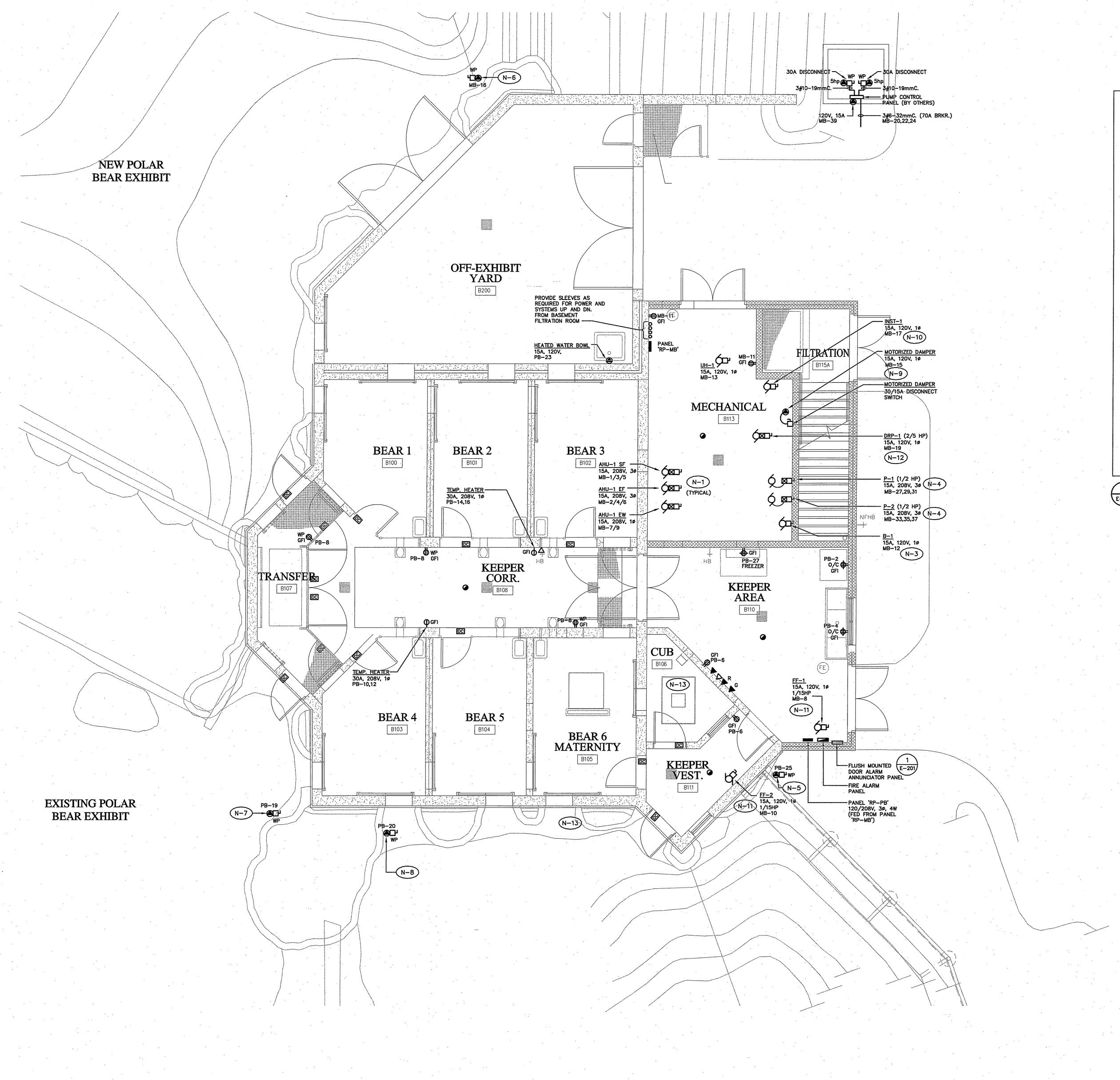
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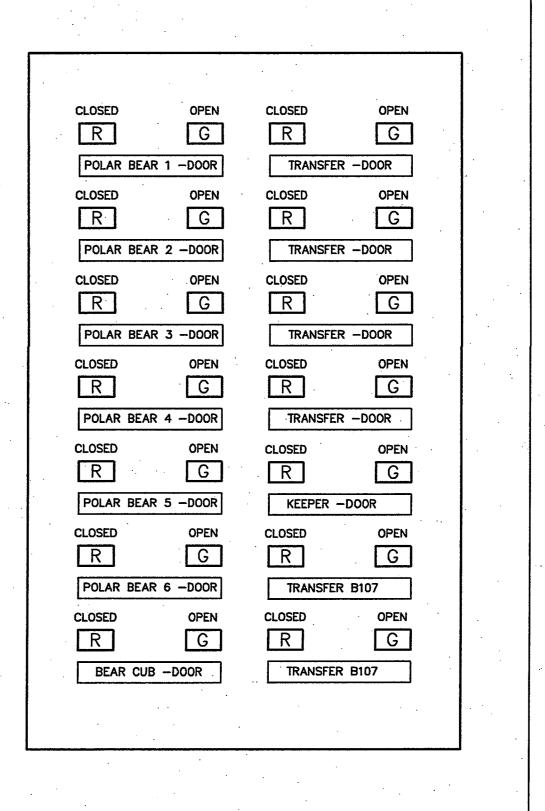
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Scale NA
Date March 2, 2007

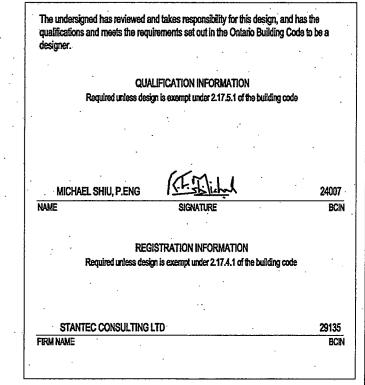




1 DOOR ALARM ANNUNCIATOR PANEL N.T.S.

- N-1 AHU-1 SUPPLIED AS A PACKAGE BY DIVISION 15. STARTERS AND PILOT DEVICES SUPPLIED, INSTALLED AND WIRED BY DIV.15. DISCONNECTING MEANS SUPPLIED AND INSTALLED BY DIV.15, WIRED BY DIV.16. REFER TO MECHANICAL MOTOR SCHEDULE.
- N-2 STARTERS AND DISCONNECTS FOR UH-1 AND UH-2 SUPPLIED, INSTALLED BY DIV.16. PILOT DEVICES SUPPLIED AND INSTALLED BY DIV.15, WIRED BY DIV.16.
- N-3 DISCONNECT SWITCH FOR B-1 SUPPLIED, INSTALLED AND WIRED BY DIV.16.
- N-4 STARTERS, DISCONNECTS AND PILOT DEVICES FOR PUMPS P1 AND P2, SUPPLIED BY DIV.15, WIRED BY DIV.16.
- N-5 PROVIDE DIRECT BURIED, PVC CONDUIT AND WIRING TO HOTWIRE FENCE FOR MATERNITY YARD. COORDINATE EXACT ROUTING ON SITE PRIOR TO ROUGH-IN.
- N-6 PROVIDE DIRECT BURIED, PVC CONDUIT AND WIRING TO HOTWIRE FENCE FOR EXISTING POLAR BEAR EXHIBIT. COORDINATE EXACT ROUTING ON SITE PRIOR TO ROUGH-IN.
- N-7 PROVIDE CONNECTION TO EXISTING POLAR BEAR YARD DRINKER. COORDINATE EXACT LOCATION ON SITE PRIOR TO ROUGH-IN.
- N-8 PROVIDE CONNECTION TO POLAR BEAR MATERNITY DRINKER. COORDINATE EXACT LOCATION ON SITE PRIOR TO ROUGH-IN
- N-9 DIV.16 TO WIRE TO DIV.15 SUPPLIED DISCONNECT SWITCHES AT MOTORIZED DAMPERS. A TOTAL OF FOUR (4) DAMPER CONNECTIONS REQUIRED. COORDINATE LOCATIONS ON SITE WITH DIV.15
- N-10 DISCONNECT FOR INST-1 SUPPLIED, INSTALLED AND WIRED BY DIV.16. PILOT DEVICE SUPPLIED BY DIV.15, WIRE BY DIV.16
- N-11 STARTERS, DISCONNECTS AND PILOT DEVICES FOR FF-1 AND FF-2 SUPPLIED AND INSTALLED BY DIV.15, WIRED BY DIV.16
- N-12) STARTER AND DISCONNECT FOR DRP-1 SUPPLIED, INSTALLED AND WIRED BY DIV.16 PILOT DEVICE SUPPLIED AND INSTALLED BY DIV.15, WIRED BY DIV.16
- N-13

 PROVIDE 19mm EMT CONDUITS COMPLETE WITH POWER AND DATA IN POLAR BEAR CUB PEN AND TO MATERNITY YARD FOR VIDEO FEEDS. TERMINATE CONDUITS TO KEEPER AREA. CO-ORDINATE REQUIREMENTS WITH ZOO REPRESENTATIVE AND VIDEO EQUIPMENT SUPPLIER (INCLUDING MOUNTING LOCATIONS AND HEIGHTS OF OUTLETS) TO ENSURE A COMPLETE SCOPE OF WORK.
- N-14 DOOR ALARM ANNUNCIATOR PANEL SHALL BE SIMILAR TO HOFFMAN DOOR MONITORING SYSTEM.



NOTE: ALL DIMENSIONS ARE MILLIMETERS (mm) UNLESS OTHERWISE NOTED.

NOTE: See attached Building Code Matrix for Architect's qualification information.

Polar Bear Holding Building -

Power and Systems Drawing No. Project Number 05646

Drawn GB Scale 1:50
Checked ZG Date March 2, 2007
General Notes:





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