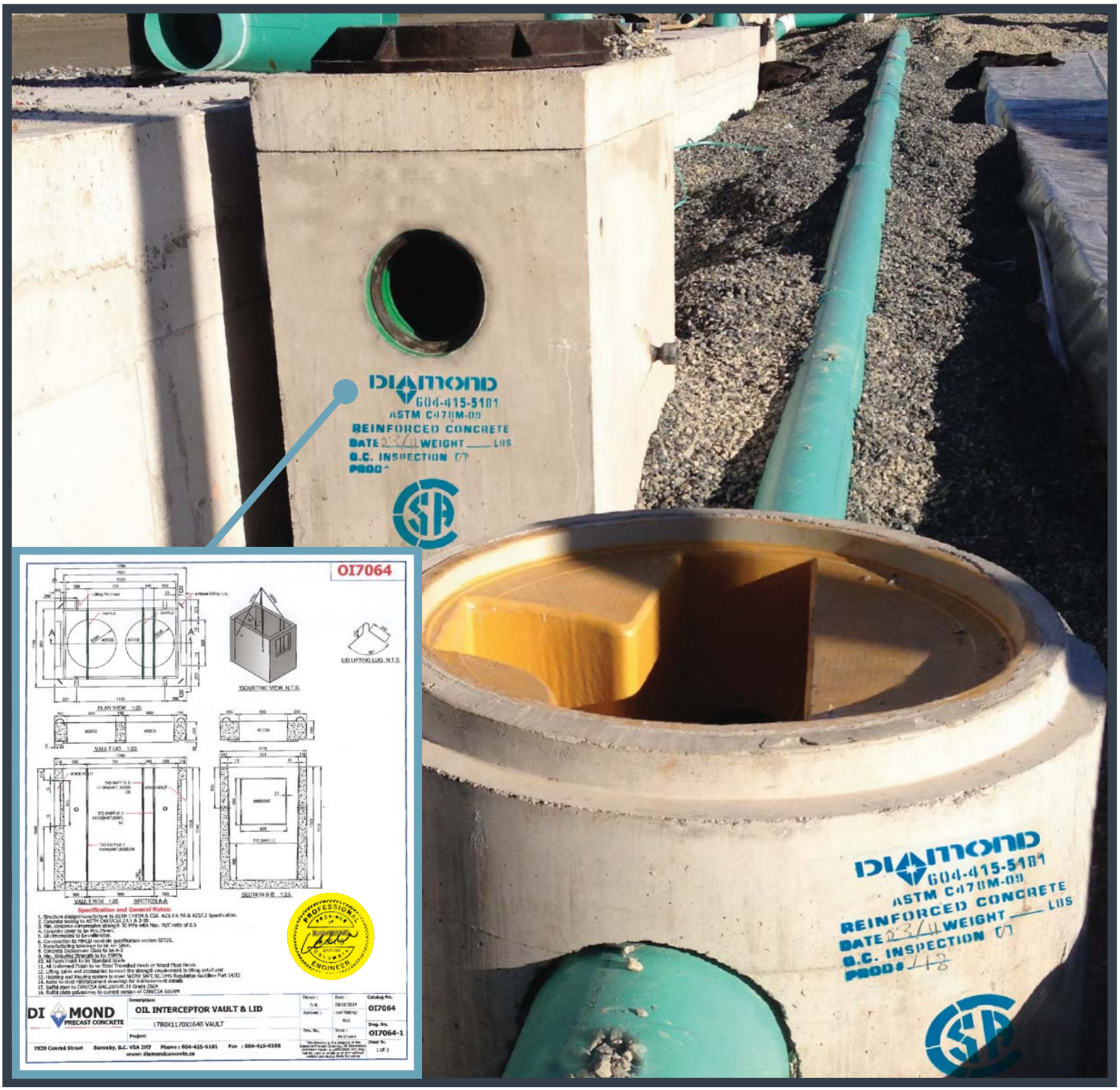
DIAMOND PRECAST CONCRETE & MUNICIPAL CASTINGS

MMCD PLATINUM

MMCD PLATINUM EDITION [2009] COMPLIANT PRODUCTS

PRODUCTS & SERVICES for Lower Mainland JURISDICTIONS & DESIGN ENGINEERS



+ A23.4-09 = MMCD PLATINUM

- **MMCD Platinum [2009] requires CSA Certified Precast Products**
- **CSA is Canada's only agency accredited to certify precast concrete**
- **Diamond Precast's products are CSA Certified to Standard A23.4-09**
- **Complete product range of Precast Concrete and Municipal Castings**
- **CSA Plant Certification assures MMCD Platinum [2009] Compliance for Precast Products listed under:**

CSA Group

Certificate of Qualification
Pre-cast Concrete Products
Certification Program

This is to certify that

Diamond Precast Concrete Ltd.
at
7520 Conrad Street, Burnaby, BC, V5A 2H7

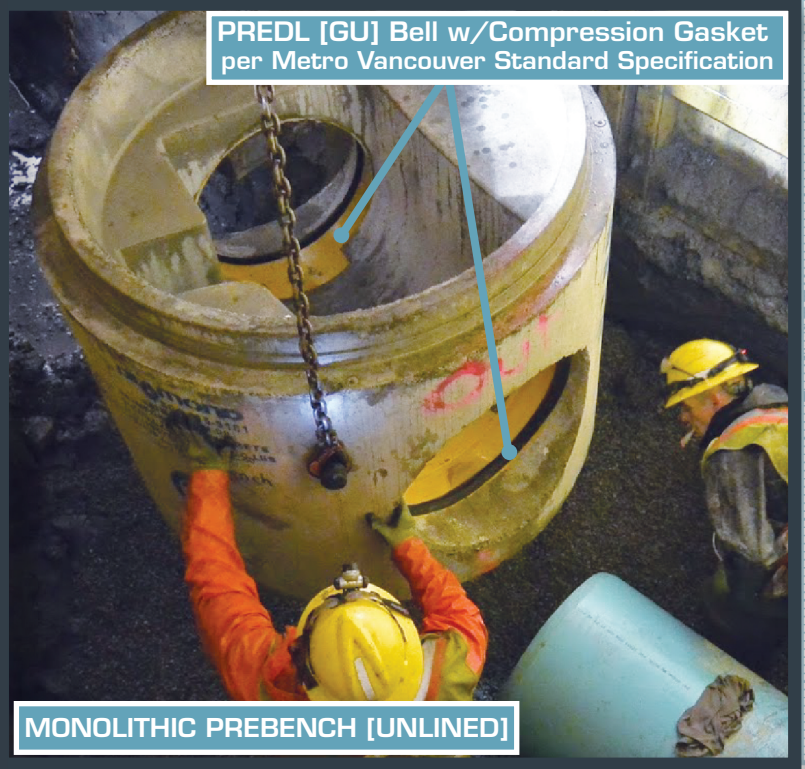
has been qualified by CSA Group, Certification and Testing, as a manufacturing facility of pre-cast concrete products under the CSA Pre-cast Concrete Products Certification Program in accordance with CSA Standard A23.4-09 – Precast Concrete, Materials and Construction; in the following categories:

Group D – Standard Drainage Products: D1
Group S – Standard Products without Architectural Finish

Issued by: Richard A. Frederick
Authorized by: Neil Forsyth

Date Issued: March 24, 2015
Date Expires: March 24, 2017

- Manholes & Catchbasins [33 44 01/2725]
- Sanitary Sewers [33 30 01/2731]
- Storm Sewers [33 40 01/2721]
- Sanitary Forcemains [33 34 01/2732]



REV NO | REVISIONS | DATE | DRAWN | APPR'D
1 | ISSUED FOR TENDER | 2015.01.19 | JC | BW

City of Burnaby ENGINEERING DEPARTMENT

SANITARY SEWER LANE SOUTH ESMOND AVEN

DIAMOND
PRECAST CONCRETE & MUNICIPAL CASTINGS

MASTER MUNICIPAL CONSTRUCTION DOCUMENT PLATINUM EDITION [2009] COMPLIANT PRODUCTS

SANITARY SEWER NOTES

1. ALL WORKS SHALL CONFORM TO THE MASTER MUNICIPAL CONSTRUCTION DOCUMENTS (2009 EDITION – PLATINUM)

- **Ample Stock On-Hand**
- **Quick Turn-Around for PREBENCH BASES**
- **CSA Facility Audits [2 x year] for QC/QA assurance**
- **Monthly Audits by independent P.Eng.[Structural]**
- **ALL products designed & stamped by APEGBC registered P.Eng.[Structural]**
- **3-Point Lifting for ALL MH Structures**



MASTER MUNICIPAL SPECIFICATIONS

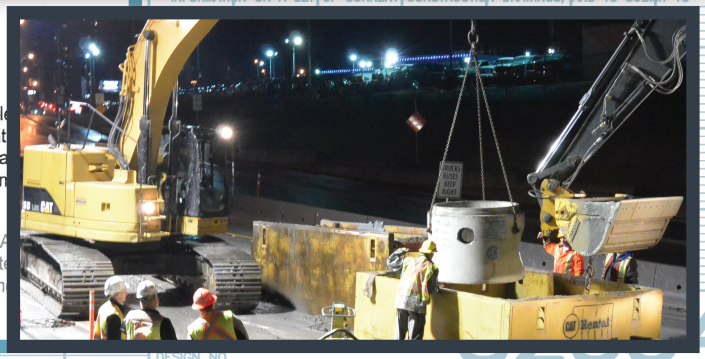
MMCD - PLATINUM EDITION [2009]
MANHOLE AND CATCHBASINS

SECTION 33 44 01
PAGE 1 OF 8
2009

1.0	GENERAL	.1	
1.1	Related Work	.1	
		.2	
		.3	
		.4	
		.5	
1.2	References	.1	supply, referred to herein, are fully described in Section 01 42 00 – Reference Specifications – Site and Infrastructure.
1.3	Samples	.1	Samples may be required.
1.4	Material Certification	.1	Products having CSA certification to be used where readily available be certified to CSA standard(s) by an approved independent certification body accredited by the Standards Council of Canada acceptable to the Contract Administrator. Products to be m certification body logo and CSA standard markings.
		.2	At least 14 days prior to commencing work, submit to the Contract A the manufacturer's recent test data and certification that mate incorporated into works are representative and meet requirem section. Include manufacturer's drawings where pertinent.

1.4 Material Certification

.1 Products having CSA certification to be used where readily available. Product to be certified to CSA standard(s) by an approved independent third party certification body accredited by the Standards Council of Canada and that is acceptable to the Contract Administrator. Products to be marked with certification body logo and CSA standard markings.



CAMBRIDGE STREET
INGLETON AVENUE

McElhanney Consulting Services Ltd.
13160–88 Ave., Surrey, B.C. V3W 3K3
Tel. (604)596–0391 Fax(604)596–8853

SCALE	VERT 1:500 HORZ 1:50	DATE	JANUARY, 2014
DRAWN BY	JC/KA	DESIGN BY	BW
CHECKED	BW	APPROVED BY	BW

DWG. NO 8 OF 1
REV. 1

info@diamondprecast.com 604-415-5181

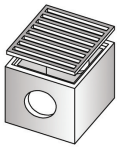
DIAMOND PRECAST CONCRETE & MUNICIPAL CASTINGS

BOULEVARD & RESIDENTIAL PRODUCTS

LAWN BASINS & RISERS [Lawn Drains]



Lawn Basin	12"ID [300mm]	18"ID [450mm]
Riser Heights	6" to 18" [150 - 450mm]	6" to 24" [150 - 600mm]
Base Height	18" [450mm]	24" [600mm]

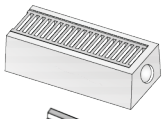


Driveway Drain Box and Grate Dimensions	
Driveway Drain Box [DB-1212]	13" x 13" x 12"H [350 x 350 x 300mm]
Grate for Driveway Box	11" x 11" x 3/4"H [250 x 250 x 20mm]

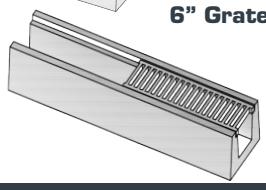




DRIVEWAY TRENCH [Trough]



Driveway Trench [TR-150]	48 x 7 x 6"ID [1200 x 175 x 150mm]
Driveway Trench End [TR-150END]	24 x 7 x 6"ID [600 x 175 x 150mm]
6" Grate for Trench [D624]	6 x 24 x 3/4"H [150 x 600 x 20mm]

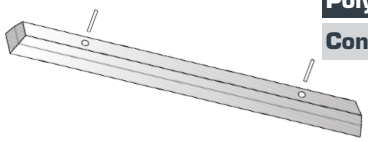


Roadway Trench [TR-200]	48 x 8 x 8"ID [1200 x 200 x 200mm]
8" Grate for Trench [D824]	8 x 24 x 1"H [200 x 600 x 25mm]

TR200 with D824 for Boulevard Applications Only [NOT Road Rated]



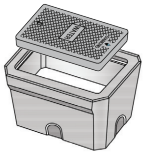
PARKING CURBS

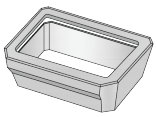


Poly-Encased (Yellow, Green or Blue)	6 x 5 x 72"L [150 x 130 x 1800mm]
Concrete	8 x 6 x 84"L [200 x 140 x 2100mm]



METER BOXES [Service Boxes, Junction Boxes]

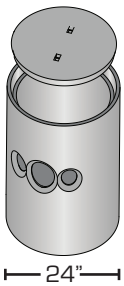




Meter Box Height & Code		Cover Types						
		Plain	Electric	Drain	Sewer	Water	Storm	Remote Reader Hole
MB#37	6" [150mm]	X	X	X	X	X	X	X
	12" [300mm]	X	X	X	X	X	X	X
MB#66	8" [200mm]	X	X					X
	12" [300mm]	X	X					
MB#5686	7" [170mm]	X						X
	15" [380mm]	X						X

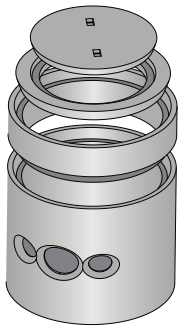


SUMP BASINS, RISERS & LIDS



30"ID [750mm]	*No Ladder Rungs*
Riser Heights	6" [150mm] | 12" [300mm] | 24" [600mm] | 36" [900mm]
Base Heights	36" [900mm] | 42" [1050mm] | 48" [1200mm]
Lid Options	30" [750mm] or 30" Reduced to 24" [600mm]

36"ID [900mm]	*With Ladder Rungs*
Riser Heights	6" [150mm] | 12" [300mm] | 24" [600mm] | 36" [900mm]
Base Heights	36" [900mm] | 42" [1050mm] | 48" [1200mm]
Lid Options	36" [900mm] or 36" Reduced to 24" [600mm]



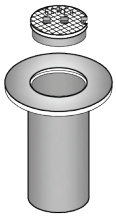


MMCD PLATINUM

MASTER MUNICIPAL CONSTRUCTION DOCUMENT PLATINUM EDITION [2009] COMPLIANT PRODUCTS

H20 RATED PRODUCTS

VALVE BOXES



Valve Box	Sizes	Markings
D-6 Robar	6"ID [150mm] x 18" [450mm]	Plain, Sewer, Water
NT	6"ID [150mm] x 12" or 18" [300/450mm]	Plain, Sewer, Water, Sani
MR 6	6"ID [150mm] x 12" or 18" [300/450mm]	Plain, Sewer, Water, Sani



GRADE RINGS

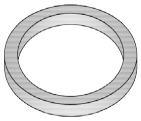


Catch Basin Grade Rings - 24" [600mm] Clear Opening

2" [50mm] available in "Round" Shape | "D" Shape | "C" Block | "D" Block

1" [25mm] available in "Round" Shape Only

Sloped 2" to 1" [50 to 25mm]



Manhole Grade Rings - 25" [635mm] Clear Opening

1" [25mm] | 2" [50mm] | 4" [100mm] available in "Round" Shape Only

Sloped 2" to 1" [50 to 25mm] | Sloped 3" to 2" [75 to 50mm]



CATCH BASINS, RISERS & DONUT LIDS

24" [600mm]	*Available in Tongue Top or Groove Top*
Riser Heights	6" [150mm] | 12" [300mm] | 24" [600mm] | 36" [900mm]
Base Heights	24" [600mm] | 36" [900mm] | 48" [1200 mm]
Donut Lid Options	Available with "Round" or "Curb & Gutter" Opening

30" [750mm]	*Available in Tongue Top or Groove Top*
Riser Heights	6" [150mm] | 12" [300mm] | 24" [600mm] | 36" [900mm]
Base Heights	36" [900mm] | 42" [1050mm] | 48" [1200mm]
Donut Lid Options	Available with "Round" or "Curb & Gutter" Opening

36" [900mm]	*Available in Tongue Top or Groove Top*
Riser Heights	6" [150mm] | 12" [300mm] | 24" [600mm] | 36" [900mm]
Base Heights	36" [900mm] | 42" [1050mm] | 48" [1200 mm]
Donut Lid Options	Available with "Round" or "Curb & Gutter" Opening

Donut Lids Add 6" [150mm] to Structure Height for All Catch Basins Sizes

M.O.T. 750mm [30"]	*Available Only in Tongue Top*
Base Height	900mm [36"] Monolithic Base
Donut Lid Option	375mm x 580mm [15" x 23"] Opening | Fits D19A "Freeway Grate"

M.O.T. 900mm [36"]	*Available Only in Tongue Top*
Riser Heights	150mm [6"] | 300mm [12"] | 600mm [24"] | 900mm [36"]
Base Height	900mm [36"] Monolithic Base
Donut Lid Option	375mm x 580mm [15" x 23"] Opening | Fits D19A "Freeway Grate"



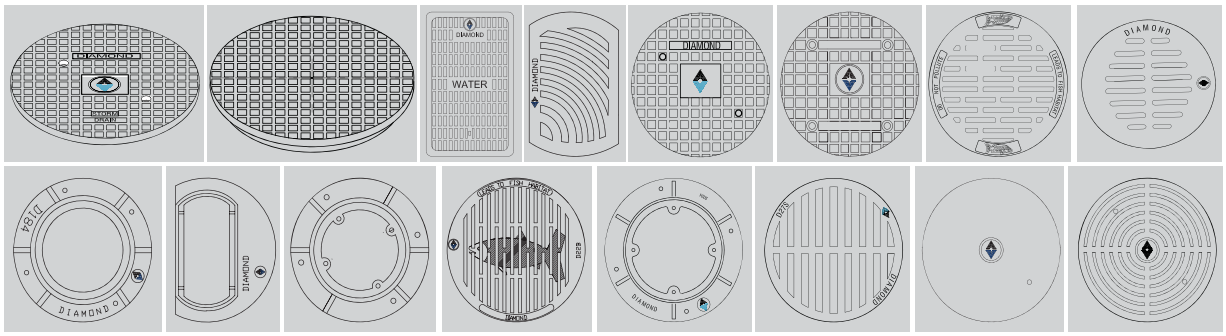
DIAMOND PRECAST CONCRETE & MUNICIPAL CASTINGS

H20 RATED PRODUCTS

MUNICIPAL CASTINGS

CATCH BASIN, TRENCH, MANHOLE, SEALED SET & OIL INTERCEPTOR CASTINGS

Complete Line of Municipal Castings: Abbotsford, Burnaby, Chilliwack, Coquitlam, Langley, Maple Ridge, Surrey and Others





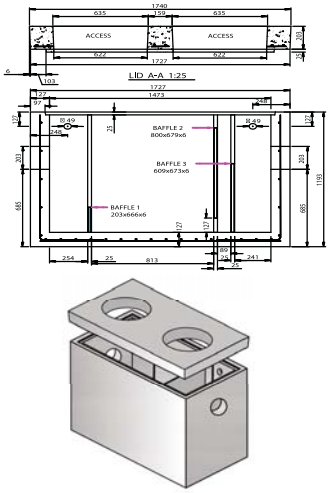


OIL INTERCEPTORS

Type 1	*Galvanized Steel Baffles Pre-Installed | 2 x 25" [635mm] Dia Openings*
Internal Dimensions	58"L x 26"W x 39"H [1473 x 660 x 991mm]
Lid Dimensions	65"L x 32"W x 7"H [1630 x 810 x 175mm]

Type 355	*Galvanized Steel Baffles Pre-Installed | 2 x 25" [635mm] Dia Openings*
Internal Dimensions	61"L x 37"W x 65"H [1549 x 939 x 1650mm]
Lid Dimensions	70"L x 46"W x 8"H [1778 x 1168 x 200mm]

Type 2	*Galvanized Steel Baffles Pre-Installed | 2 x 25" [635mm] Dia Openings*
Internal Dimensions	96"L x 36"W x 65"H [2423 x 914 x 1650mm]
Lid Dimensions	106"L x 47"W x 8"H [2690 x 1195 x 200mm]





MANHOLES

LIDS, RISERS, FLAT BOTTOM MONOBASES & PREBENCHED MONOBASES

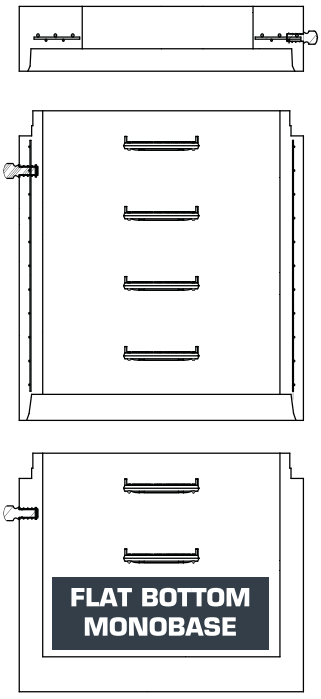
MH Flat Top Slab Lid Opening Options	42" [1050mm]	48" [1200mm]	54" [1350mm]	60" [1500mm]	72" [1800mm]
25" [635mm] Dia Offset Round Opening	X	X	X	X	X
24" x 36" [600 x 900mm] Hatch Opening	X	X	X	X	X
Flat Top Slab Thickness	12" [300mm]	12" [300mm]	12" [300mm]	15" [375mm]	15" [375mm]

MH SIZES	42" [1050mm]	48" [1200mm]	54" [1350mm]	60" [1500mm]	72" [1800mm]
Riser Heights	6" to 48" [150-1200mm]	12" to 48" [300-1200mm]	12" to 60" [300-1500mm]	12" to 60" [300-1500mm]	12" to 60" [300-1500mm]
Base Heights	24" or 48" [600-1200mm]	24" to 48" [600-1200mm]	24" to 60" [600-1500mm]	24" to 60" [600-1500mm]	24" to 60" [600-1500mm]
Base Thickness	6" [150mm]	6" [150mm]	6" [150mm]	8" [200mm]	8" [200mm]









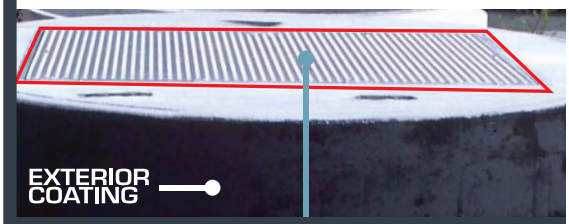
MMCD PLATINUM

MASTER MUNICIPAL CONSTRUCTION DOCUMENT PLATINUM EDITION [2009] COMPLIANT PRODUCTS

CUSTOM STRUCTURES



EXTENDED BASE



CAST-IN HATCH

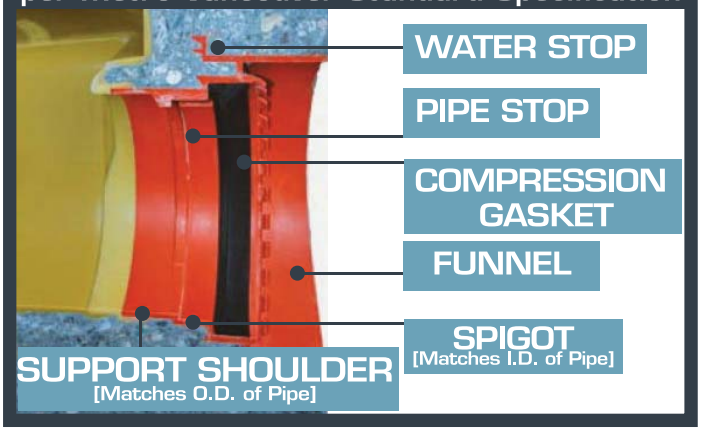


STORMWATER MANAGEMENT

CUSTOM PREBENCH BASES



PREDL [GU] Bell w/Compression Gasket per Metro Vancouver Standard Specification



PIPE CONNECTIONS [4" - 48" | 100 - 1200mm]

Diamond has a connection for ALL types of Pipe



GROUT-IN BELLS



PREFORMED



CAST-IN BELLS

PREDL systems
THE MANHOLE LINER EXPERTS

Diamond products available w/PREDLsystems Concrete Protective Liners



MH BASE LINER



FULLY LINED MH with LADDER RUNGS



WET WELLS



CHAMBERS



VAULTS



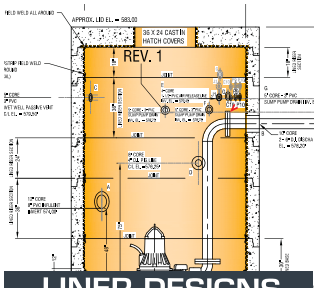
FLAT TOP SLAB with Telescopic Access Collar



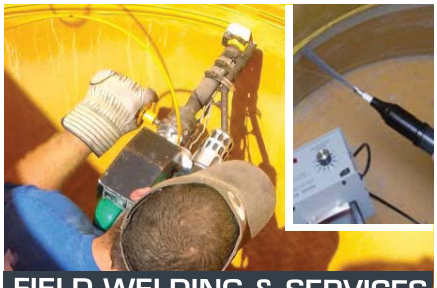
HATCH COVER



INSIDE DROP



LINER DESIGNS



FIELD WELDING & SERVICES

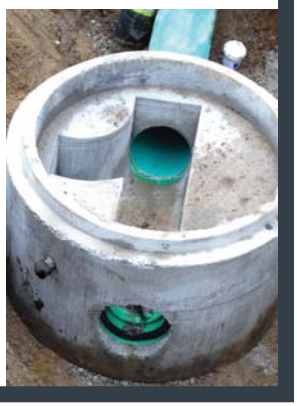
info@diamondprecast.com 604-415-5181











KEY CONTACTS

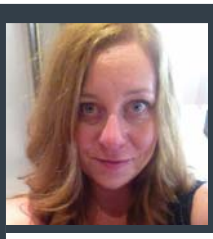


Jed Friesen
President

604.312.3220

jed@diamondprecast.com

Jed has owned Diamond Precast since 2005 and sister company Predl Systems since 2010.

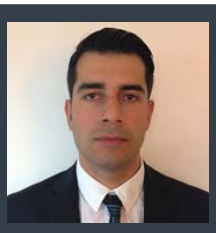


Sharon Smith
Lead Estimator | Customer Service Manager

604.897.9675

sharon@diamondprecast.com

Sharon is an expert on MMCD requirements for Civil Projects including all local Supplementals. Sharon has 8 years' experience building Quotations from Civil Plans and 5 years' experience building Predl Lined Precast Quotations. Sharon also provides Project Coordination and Management.

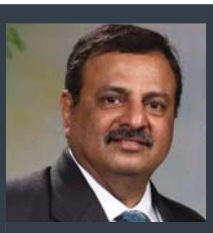


Ben G. Yerebasmaz, P.Eng
Engineering Manager

604.415.9944

ben@diamondprecast.com

A registered professional engineer, Ben has over 8 years of progressive experience with Jurisdictions, Design Engineers and Contractors. Ben also oversees Diamond's sister company, Predl Systems, and has completed over 130 custom Concrete Protective Liner designs for projects.



Ramesh Nathani, P.Eng., PMP
Q.C. Manager | Production Manager

778.846.9289

Ramesh@diamondprecast.com

A registered professional engineer, Ramesh has over 10 years of progressive experience with Quality Control, Production, Planning, Scheduling and Project Management. Ramesh was instrumental in the implementation of Diamond's CSA Standard A23.4-09 Plant Certification.

A23.4-09

MMCD PLATINUM

DIAMOND PRECAST CONCRETE

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www.diamondprecast.com

MONDAY to FRIDAY | 7:30am to 4:00pm

