APPLICATION FOR OSHPD PREAPPROVED LABORATORY (OPL)

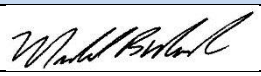
For Office Use Only	
Application #	OPL-0044-16

Name of Approved Agency/Laboratory	City	County	State
Christian Wheeler Engineering	San Diego	San Diego	California

APPLICATION TYPE / FEE

Application is based on:	New Application Fee (Fees are Nonrefundable)	Renewal Fee (Fees are Nonrefundable)
☐ DSA-LEA Approved Only	☐ $250.00	☐ $250.00
☐ Accreditation Only	☐ $500.00	☐ $250.00
☒ Both DSA-LEA Approved and Accreditation	☒ $500.00	☐ $250.00

APPLICANT INFORMATION

Applicant Name	Signature	Position in the Organization
Michael Wheeler (RCE# 45058)		President and Firm Principal

Agency/Laboratory Name	Application Date
Christian Wheeler Engineering	February 11, 2016

Phone Number	E-Mail
619-550-1700	mwheeler@christianwheeler.com

Address of Facility Location *(Each facility location requires separate application.)*
Christian Wheeler Engineering

Street
3980 Home Avenue

City:	County	State:	Zip Code:
San Diego	San Diego	California	92105

Facility Mailing Address *(If different from facility address above.)*

Street

City:	State:	Zip Code:

KEY PERSONNEL *(Attach additional pages if needed.)*

Engineering Manager *(or equivalent)* – Name	CA Registration Number	Expiration Date
Michael Wheeler	RCE #45058	09/30/16
Title in the Organization: President and Firm Principal	Phone Number: 619-550-1700	
FAX Number: 619-550-1701	E-Mail: mwheeler@christianwheeler.com	

Alternate to Engineering Manager *(if any)* – Name	CA Registration Number	Expiration Date
Title in the Organization	Phone Number	
FAX Number	E-mail	

KEY PERSONNEL *(Attach additional pages if needed.)*

Laboratory Supervisor – Name John Bolger	CA Registration Number *(if any)*	Expiration Date
Title in the Organization Laboratory Supervisor	Phone Number 619-550-1700	
FAX Number 619-550-1701	E-Mail jbolger@christianwheeler.com	
Field Supervisor – Name Stephen Campbell	CA Registration Number *(if any)*	Expiration Date
Title in the Organization Field Supervisor	Phone Number 619-550-1700	
FAX Number 619-550-1701	E-mail scampbell@christianwheeler.com	

ACCREDITATION

This laboratory currently holds accreditation by: *(Attach a copy of current accreditation details.)*

- ☒ AASHTO Accreditation Program (AAP)
- ☐ International Accreditation Service (IAS)
- ☐ Laboratory Accreditation Program (LAB)
- ☐ National Voluntary Laboratory Accreditation Program (NVLAP)
- ☐ American Association of Laboratories Program (A2LA)
- ☐ Construction Materials Engineering Council (CMEC)
- ☐ Other _____

Latest Expiration Date *(if any)* _____

Is this laboratory accepted in the Division of the State Architect Laboratory Evaluation and Acceptance Program, DSA-LEA? ☐ No ☒ Yes Expiration Date: November 25, 2018

Basis for accreditation:

- ☐ ISO/IEC 17025: General requirements for competence of testing and calibration laboratories
- ☐ NISTIR 7012: Technical requirements for construction materials testing
- ☒ AASHTO R18: Standard Recommended Practice for Establishing and Implementing a Quality System for Construction Materials Testing Laboratories
- ☒ ASTM E 329: Specification for Agencies Engaged in the Testing and/or Inspection of Materials Used in Construction
- ☒ ASTM C 1077: Practice for Laboratories Testing Concrete and Concrete Aggregates for Use in Construction and Criteria for Laboratory Evaluation
- ☒ ASTM D 3666: Specification for Minimum Requirements for Agencies Testing and Inspecting Bituminous Paving Materials
- ☒ ASTM D 3740: Practice for Evaluation of Agencies Engaged in Testing and/or Inspections of Soils and Rock as Used Engineering Design and Construction
- ☐ ASTM C 1093: Practice for Accreditation of Testing Agencies for Unit Masonry
- ☐ ASTM E 1212: Practice for Quality Management Systems for *Nondestructive Testing (NDT)* Agencies
- ☐ ASTM E E543: Specification for Agencies Performing *Nondestructive Testing (NDT)*

STANDARDS

By checking "yes" in Tables 1 through 6 below, the applicant verifies that the laboratory has the equipment and qualified personnel to perform the indicated testing. ***ONLY mark tests that are listed in accreditation certificate or DSA-LEA.***

1 SOILS AND FOUNDATIONS

Tests

Yes		Standard	Test Procedure	Yes		Standard	Test Procedure
☒	a.	ASTM D 2487	Classification of Soils	☒	b.	ASTM D 422	Particle Size Analysts
☒	c.	ASTM D 2216	Moisture Content	☒	d.	ASTM D 4318	Liquid / Plastic Limit
☐	e.	ASTM D 2850	Unconsolidated, Undrained Triaxial	☐	f.	ASTM D 4767	Triaxial Compression
☐	g.	ASTM D 2166	Unconfined Compressive Strength	☐	h.	ASTM D 7012	Triaxial Compressive Strength of Rock Core Specimens
☐	i.	ASTM D 5778	Friction Cone and Pizocone Penetration Test	☐	j.	ASTM D 3441	Cone Penetration Test (CPT)
☐	k.	ASTM D 1140	No. 200 Wash	☐	l.	ASTM D 4829	Expansion Index
☐	m.	ASTM D 2419	Sand Equivalent Value	☒	n.	ASTM D 1557	Soil Compaction – Modified
☐	o.	ASTM D 3080	Direct Shear	☒	p.	ASTM D 6938	Density of Soils – Nuclear Gage
☐	q.	ASTM D 1556	Density of Soils – Sand Cone	☐	r.	ASTM D 1143	Deep Foundations – Static Compression
☐	s.	ASTM D 4945	Deep Foundations – Dynamic Testing	☐	t.	ASTM D 3689	Deep Foundations – Axial Tension
☐	u.	ASTM D 3966	Deep Foundations –Lateral Loads				

Tests that are in the lab's scope but are not listed above should be provided in the space(s) below.

Yes		Standard	Test Procedure	Yes		Standard	Test Procedure
☒	aa.	ASTM D 421	Resistance R-Value	☐	bb.		
☐	cc.			☐	dd.		
☐	ee.			☐	ff.		

2	CONCRETE						
	Tests						
Yes	**Standard**		**Test Procedure**	**Yes**	**Standard**		**Test Procedure**
☐	**a.**	ASTM D 75	Sampling Aggregate	☒	**b.**	ASTM C 702	Reducing Aggregate Samples
☒	**c.**	ASTM C 40	Organic Impurities	☐	**d.**	ASTM C 29	Unit Weight / Voids
☐	**e.**	ASTM C 88	Sodium Sulfate Soundness	☒	**f.**	ASTM C 566	Moisture Content
☐	**g.**	ASTM C 142	Clay / Friable Particles	☒	**h.**	ASTM C 127	Specific Gravity - Coarse
☒	**i.**	ASTM C 128	Specific Gravity - Fine	☒	**j.**	ASTM C 117	No. 200 Wash
☒	**k.**	ASTM C 136	Sieve Analysis Course / Fine	☐	**l.**	ASTM C 131	Degradation of Aggregate
☐	**m.**	ASTM D 2419	Sand Equivalent Value	☒	**n.**	ASTM C 31, C 172, CBC 1905A.1.2	Concrete Sampling - Field
☒	**o.**	ASTM C 192	Making / Curing Specimens - Lab	☒	**p.**	ASTM C 173	Air Content (V)
☐	**q.**	ASTM C 1602	Water	☐	**r.**	ASTM C1604	Shotcrete Core
☐	**s.**	ACI 355.2	Mechanical Anchors	☒	**t.**	ASTM C 231	Air Content (P)
☒	**u.**	ASTM C 143	Slump	☒	**v.**	ASTM C 1064	Temperature
☒	**w.**	ASTM C 617	Capping Concrete Specimens	☒	**x.**	ASTM C 1231	Unbonded Caps
☒	**y.**	ASTM C 39	Compressive Strength	☒	**z.**	ASTM C 157	Length Change
☒	**aa.**	ASTM C 78	Flexural Strength	☒	**bb.**	ASTM C 496	Splitting Tensile
☐	**cc.**	ASTM C 42	Drilled Cores / Beams	☒	**dd.**	ASTM C 138	Weight / Yield / Air Content
☒	**ee.**	ASTM C 495	Lightweight Concrete	☐	**ff.**	ASTM C 567	Density of Lightweight Aggregate
☐	**gg.**	ASTM E 488	Strength of Anchors	☐	**hh.**	ACI 355.4	Adhesive Anchors
☐	**ii.**	ACI 374.1	Moment Frames	☐	**jj.**	ASTM C 1260	Alkali Reactivity of Aggregate
☐	**kk.**	ASTM C 1293	Length Change due to Alkali-Silica Reaction	☐	**ll.**	ACI ITG-5.1	Post-Tensioned Precast Special Walls
☐	**mm.**	ASTM C 42	Concrete Core	☐	**nn.**	ASTM D 3039	Tensile Strength of FRP
☐	**oo.**	ASTM D 4541	Pull of Strength of FRP	☐	**pp.**	ASTM A 1034	Rebar Mechanical Splices
☐							
☐							

Tests that are in the lab's scope but are not listed above should be provided in the space(s) below.

Yes	**Standard**		**Test Procedure**	**Yes**	**Standard**		**Test Procedure**
☐	**aa.**			☐	**bb.**		
☐	**cc.**			☐	**dd.**		
☐	**ee.**			☐	**ff.**		

3	MASONRY						
	Tests						
Yes	**Standard/Code Reference**		**Test Procedure**	**Yes**	**Standard/Code Reference**		**Test Procedure**
☒	**a.**	ASTM C 140	Dimensions	☒	**b.**	ASTM C 140	Compressive Strength
☒	**c.**	ASTM C 140	Absorption	☐	**d.**	ASTM C 140	Unit Weight
☐	**e.**	ASTM C 140	Moisture Content	☒	**f.**	ASTM C 426	Linear Drying Shrinkage
☐	**g.**	CBC 2105A.2.2.1.4	Mortar Sampling	☒	**h.**	CBC 2105A.2.2.1.4	Grout Sampling
☒	**i.**	ASTM C 1314	Prism Compressive Strength	☒	**j.**	ASTM C 1019	Grout Compressive Strength
☐	**k.**	ASTM C 780	Mortar Compressive Strength	☐	**l.**	ASTM C 39	Core Compressive Strength
☒	**m.**	CBC 2105A.4	Core Shear	☒	**n.**	ASTM C 1314	Prism Sampling

Tests that are in the lab's scope but are not listed above should be provided in the space(s) below.

Yes	**Standard/Code Reference**		**Test Procedure**	**Yes**	**Standard/Code Reference**		**Test Procedure**
☐	**aa.**			☐	**bb.**		
☐	**cc.**			☐	**dd.**		
☐	**ee.**			☐	**ff.**		

4	STEEL						
	Tests						
Yes	**Standard/Code Reference**		**Test Procedure**	**Yes**	**Standard/Code Reference**		**Test Procedure**
☒	**a.**	ASTM A 370	Tension Test	☒	**b.**	ASTM A 370	Bend
☐	**c.**	ASTM E 10	Brinell Hardness	☐	**d.**	ASTM E 18	Rockwell Hardness
☐	**e.**	ASTM E 190	Guided Bend	☐	**f.**	ASTM E 23	Charpy V - Notch
☐	**g.**	ASTM A 90	Weight of Coating	☐	**h.**	AISC 341 Section K2	Beam to Column Moment & EBF Connections Cyclic Tests
☐	**i.**	AISC 341 Section K3	BRBF Cyclic Tests	☒	**j.**	ASTM E 165	Liquid Penetrant
☒	**k.**	ASTM E 1444	Magnetic Particle	☐	**l.**	ASTM E 94	Radiographic
☒	**m.**	ASTM E 164	Ultrasonic	☒	**n.**	ASTM E 605	Density of SFRM
☐	**o.**	CBC 2203A.1	Material Identification	☐	**P**	ASTM F606	Bolt Tension Test

Tests that are in the lab's scope but are not listed above should be provided in the space(s) below.

Yes	**Standard/Code Reference**		**Test Procedure**	**Yes**	**Standard/Code Reference**		**Test Procedure**
☐	**aa.**			☐	**bb.**		
☐	**cc.**			☐	**dd.**		
☐	**ee.**			☐	**ff.**		

5	Wood and Roof Assemblies						
	Tests						
Yes	**Standard**		**Test Procedure**	**Yes**	**Standard**		**Test Procedure**
☐	**a.**	ASTM D 3617	Analysis of Built-Up Roof Systems	☐	**b.**	ASTM D 4442	Moisture Content of Wood
☐	**c.**	ASTM C 67	Brick and Structural Clay Roof Tiles				
Tests that are in the lab's scope but are not listed above should be provided in the space(s) below.							
☐	**aa.**			☐	**bb.**		
☐	**cc.**			☐	**dd.**		
☐	**ee.**			☐	**ff.**		

6	COMPONENT, ASSEMBLY AND PROTOTYPE TESTING						
	Tests						
Yes	**Standard/Code Reference**		**Test Procedure**	**Yes**	**Standard/Code Reference**		**Test Procedure**
☐	**a.**	AAMA 501.4	Static Test for Curtain Wall and Storefront Systems	☐	**b.**	ICC-ES AC 156	Shake Table Test
☐	**c.**	AAMA 501.6	Dynamic Test for Curtain Wall and Storefront Systems	☐	**d.**	FM 1950	Seismic Sway Brace Testing
Tests that are in the lab's scope but are not listed above should be provided in the space(s) below.							
☐	**aa.**			☐	**bb.**		
☐	**cc.**			☐	**dd.**		
☐	**ee.**			☐	**ff.**		

List of Attachments Supporting the Testing Agency/Laboratory Approval (Submit Each Attachment as Separate PDF)	
Yes	**Enclosure Type**
☒	OSHPD Facilities Development Division (FDD) Payment Form (OSH-AD-367): http://www.oshpd.ca.gov/FDD/Forms/eSPForms/OSH-AD_367%20Facilities%20Development%20Division%20Payment%20Form.pdf
☒	DSA-LEA Laboratory Qualification as posted at DSA website: https://www.apps.dgs.ca.gov/tracker/ApprovedLabs.aspx
☒	Latest Copy of DSA 100: LEA Program Application as Submitted to DSA
☒	Latest copy of DSA 220: LEA Program On-Site Assessment Report
☒	Latest copy of DSA acceptance (letter) of the Lab. into the LEA program.
☐	Current Accreditation Certificate(s) including List of Tests for which Laboratory is Accredited
☐	Other (Please Specify):

OSHPD Approval (For Office Use Only)

Signature: 

Approval Date: 03/01/2016

Print Name: James C. Pan

Approval Expiration Date: 11/25/2018

Title: District Structural Engineer

Condition of approval *(if applicable)*: