OFFICE OF THE CITY ATTOKNEY CHARLES PARKIN, City Attorney 111 West Ocean Boulevard, 9th Floor Long Beach, CA 90802-4664

THIRD AMENDMENT TO AGREEMENT NO. 34406

THIS THIRD AMENDMENT TO AGREEMENT NO. 34406 ("Amendment") is made and entered, in duplicate, as of March 19, 2020 for reference purposes only, pursuant to a minute order adopted by the City Council of the City of Long Beach at its meeting on August 16, 2016, by and between JACOBS PROJECT MANAGEMENT CO., a Delaware corporation ("Consultant"), with a place of business at 2600 Michelson Drive, Suite 500, Irvine, California 92612, and the CITY OF LONG BEACH, a municipal corporation ("City").

WHEREAS, City and Consultant (the "Parties") entered into Agreement No. 34406 (as previously amended, the "Agreement") whereby Consultant agreed to provide the specialized services as described in Request for Qualifications AP16-105; and

WHEREAS, City and Consultant desire to extend the term one (1) additional one-year period, add \$2,100,000 to the Agreement and attach updated rate sheets;

NOW, THEREFORE, in consideration of the mutual terms, covenants, and conditions herein contained, the Parties agree as follows:

- 1. Section 1.A. of the Agreement is hereby amended to read as follows:
- "A. Consultant shall furnish specialized services generally described in the RFQ and more particularly described in Exhibit "A-2" to the Agreement and Exhibit "A-3" to the First Amendment, all incorporated by this reference, in accordance with the standards of the profession, and City shall pay for these services in the manner described below, not to exceed Seven Million Seven Hundred Fifty Thousand Dollars (\$7,750,000), at the rates or charges shown in Exhibit "B"."
 - 2. Section 2 of the Agreement is hereby amended to read as follows:
- "2. <u>TERM</u>. The term of this Agreement shall commence at midnight on August 29, 2016, and shall terminate at 11:59 p.m. on August 28, 2021, unless sooner terminated as provided in this Agreement, or unless the services or the Project is

completed sooner."

- 3. The Rates contained in Exhibit "B-3" to this Amendment hereby supplement the rates currently attached to the Agreement. Exhibit "B-3" to this Amendment is hereby incorporated into the Agreement as a supplement to the existing Exhibit "B".
- 4. Except as expressly modified herein, all of the terms and conditions contained in Agreement No. 34406 are ratified and confirmed and shall remain in full force and effect.

IN WITNESS WHEREOF, the Parties have caused this document to be duly executed with all formalities required by law as of the date first stated above.

	JACOBS PROJECT MANAGEMENT CO., a Delaware corporation
March 24, 2020 . 2020	By Name Issam Khalaf Title Vice President, West PMCM Operations
March 30, 2020 2020	By K
	"Consultant"
May 12 2020	CITY OF LONG BEACH, a municipal corporation By Rebecca J. James
This Third Amendment to Ag	City Manager EXECUTED PURSUANT "City" TO SECTION 301 OF THE CITY CHARTER on 34406 is approved as to both money.
May 11 , 2020	
	CHARLES PARKIN. City Attorney
	ByDeputy

ACKNOWLEDGMENT

A notary public or other officer completing this certificate verifies only the identity of the individ who signed the document to which this certifica attached, and not the truthfulness, accuracy, or validity of that document.	ite is
State of California County of	
On March 24, 2020 before me, I	Kimberly L. Blackburn, Notary Public
	(insert name and title of the officer)
personally appearedIssam Khalaf who proved to me on the basis of satisfactory evisubscribed to the within instrument and acknowle his/her/their authorized capacity(ies), and that by person(s), or the entity upon behalf of which the person(s).	dged to me that he/she/they executed the same in his/her/their signature(s) on the instrument the
I certify under PENALTY OF PERJURY under the paragraph is true and correct.	e laws of the State of California that the foregoing
WITNESS my hand and official seal.	Commission No. 2180163 COMMISSION NO. 2180163 COMMISSION NO. 2180163 COMMISSION NOTARY PUBLIC-CALIFORNIA RIVERSIDE COUNTY My Comm. Expires JANUAARY 16. 2021
Signature Kimbuly J. Blockson	(Seal)

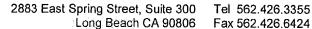
ACKNOWLEDGMENT

A notary public or other officer completing this certificate verifies only the identity of the individual who signed the document to which this certificate is attached, and not the truthfulness, accuracy, or validity of that document.

validity of that document.	
State of California County ofOrange	
On March 30, 2020 before me,	Kimberly L. Blackburn, Notary Public
	(insert name and title of the officer)
personally appeared Kosal Krishnan	
who proved to me on the basis of satisfactory e subscribed to the within instrument and acknow	evidence to be the person(s) whose name(s) is/are eledged to me that he/she/they executed the same in by his/her/their signature(s) on the instrument the eleperson(s) acted, executed the instrument.
I certify under PENALTY OF PERJURY under t paragraph is true and correct.	the laws of the State of California that the foregoing
WITNESS my hand and official seal.	KIMBERLY L. BLACKBURN Commission No. 2180163 NOTARY PUBLIC-CALIFORNIA RIVERSIDE COUNTY My Comm. Expires JANUAARY 16, 2021
Signature Kimberly J. Blackburn	_ (Seal)

EXHIBIT "B-3"

OFFICE OF THE CITY ATTORNEY CHARLES PARKIN, City Attorney 411 West Ocean Boulevard, 9th Floor Long Beach, CA 90802-4664



Tel 562.426.3355



April 22, 2019 Proposal No. 18-1473; 2019 Rebid

Brook Corney, CCM Jacobs Construction Manager | PMCM 909.583.1159 Mobile Brook.Corney@jacobs.com

Subject:

Proposal to Perform Geotechnical Oversight, Material Testing and Deputy

Inspection Services

Reference:

Terminal Area Improvements at Long Beach Airport BOOA Development

Dear Mr. Corney:

Twining, Inc. (Twining) is pleased to submit this proposal to perform geotechnical oversight and on-site soils compaction testing during grading and utilities installation, as well as material testing and deputy inspection services during the construction of the subject project.

PROJECT UNDERSTANDING

The project scope will entail material testing and deputy inspection during each of the nine phases of construction which will include grading and compaction of building pads and underground utilities, installation of reinforced concrete foundations, erection of structural steel, application of spray-applied fireproofing, seismic related inspection and non-destruct testing (NDT).

SCOPE OF SERVICES

GEOTECHNICAL, SPECIAL INSPECTION AND MATERIAL TESTING SCOPE OF SERVICES

Please note that we have provided in our scope and cost projection worksheet allowances for the following comprehensive testing and inspection requirements:

- Geotechnical engineering, site grading, compaction/backfill, during utilities installation;
- Reinforced concrete;
- Structural steel (field visual and non-destruct testing, assumes fabricator is licensed and approved);
- Spray-applied fireproofing (assumed);
- Inspection: Epoxy dowels (periodic), anchors (periodic) and embeds (periodic).

GEOTECHNICAL ENGINEERING OBSERVATIONS AND TESTING SCOPE

We propose to perform geotechnical engineering observation and testing during fill placement for grading of building pads, foundation pile installation, utility installation, pavements, and miscellaneous grading as needed. We will assume the role of Geotechnical Engineer of Record (GEOR) and a description of our proposed services are presented as follows:

- Geotechnical Observations: Our GEOR will perform periodic observations of site activities
 involving geotechnical engineering components on an as-needed basis. The purpose of the
 observations is to check for conformance with the project geotechnical recommendations.
 Observations during pile and retaining wall installation, backfill and fill placement will be
 performed by our LA County Licensed soil technician and reviewed by the GEOR.
- Field Density Testing of Soil: We will perform field density testing during the fill placement
 of the subgrade soil supporting new structures, footings, concrete slabs, site utilities, and
 flatwork. Testing will utilize the nuclear gauge method, the sand cone method, or both. Field
 technicians on site will prepare a daily compaction test report in addition to the daily field
 reports as required by Twining and will submit a copy to all the relevant personnel on a daily
 basis.
- Observe and Test Asphalt Concrete: We will provide continuous observation and testing
 during the placement of asphalt concrete at the site. Asphalt concrete compaction testing will be
 performed by a technician using a nuclear gauge to verify asphalt concrete compaction
 requirements. The technician will be on site during asphalt concrete placement.
- Laboratory Testing: We will perform laboratory testing on representative samples of soils and asphalt concrete. We anticipate the testing will include maximum dry density-optimum moisture relationship, classification and expansion index for soil materials and extraction, gradation, and HVEEM stability tests.
- Final Geotechnical Verification Report: Upon completion of the backfill and foundations, we will prepare a Final Geotechnical Verification Report summarizing our observations and test results.
- Geotechnical Engineering Support: We will provide as-needed geotechnical engineering support during construction upon assuming the role of geotechnical engineer of record for the project. We will provide plan review, responses to RFI's, and other as-needed geotechnical engineering support in order to complete the project in accordance with the project requirements.

BUDGET COST ANALYSIS

Though we have attached a budgetary cost estimate for our services, these estimates are not intended to be lump sums or guaranteed costs. Please note these estimates do not account for overtime and are contingent upon the phasing of the project and progress of construction.

LIMITATIONS

Please notify us immediately if the proposed scope of services does not meet your current needs, or if any significant changes are made to the proposed development so that we can revise our scope of services. Revision of the scope of services may affect the estimated fee.

There are inherent risks related to subsurface explorations. The estimated fee in this proposal is not sufficient to cover costs related to the repair of damaged underground utilities. Twining will not be responsible for the repair or the cost of repairs on any damaged underground utilities, unless it is due to the sole negligence of Twining.

Our field explorations will not include sampling, testing, or assessment of toxic or hazardous substances, if such are encountered, or evaluation of other environmental issues. If, during the subsurface exploration program, foreign or odorous materials are encountered, drilling will be terminated and the client will be advised of the condition.

Please note that our scope of services does not include draft reports, post-report consultation, and review of grading or construction plans. However, these services can be provided, if requested, under a separate proposal.

The proposed scope of services is consistent with the level of care and skill ordinarily exercised by engineering professionals with experience in this area. No other warranty, either expressed or implied, is made.

CLOSURE

If our proposed scope of services and the attached terms and conditions are acceptable, please sign and return the "Proposal Acceptance" block below to us. Should you have any questions or comments, please contact me at your convenience. I can be reached at (562) 522-1179.

Respectfully submitted,

TWINING, INC.

Talin Espinoza
Senior Vice President

Steve Schiffer

Vice President, Business Development

Project Name Terrinal Area Improvements at Long Beach Arport B00A Development Proposal No: 18-147342219 rebid Date April 22, 2019 Talin Espinoza/Stave Schiffor 626 625 9442 562 522 1179 Total DIVISION 2: SITE CONSTRUCTION ١ 45 360 Hours \$ 100 00 36,000 00 Soils Tachnician 100.00 28,000 00 260 Hours All Phases 35 Unitation 1 Soils Tochnician 4,320 00 6 00 Nuclear Gauge Registered Geotechnical Engineer 720 Hours Project Oversight Portal to portal 16 Hours 180.00 2,860 00 2,600.00 Perial to portal 20 130 00 Staff Engineer/Geologist Hours 1 \$ 1,500.00 1,500.00 Geotechnical Laboratory Testing 2. 1,506.00 Clerical / Report Distribution SUB-TOTAL 76,806.00 DIVISION 3: CONCRETE 48 Hours 100 00 Fotns/SOG All Buildings Special Inspector/Registered Deputy Inspector - Reinforced Concrete Special Inspector/Registered Deputy Inspector - Seismic Anchors, etc. Seismic @ Phase C (18 & 2) Portal to portal 80 16 \$ 100 00 \$ 150 00 06 20 Hours 8,000.00 2,400.00 Project Manager Hours Compression Strongth: 6" x 12" or 4" x 8" Cylinders 120 Tests 32.00 3,810.00 Each 2% Standard Sample Pickup 36 10.00 360.00 1,028.00 Cterical / Report Distribution SUB-TOTAL 52,428 00 DIVISION 5: METAL Shop Fabrication - Scope and estimate assumes fabrication will occur in a shop ficansed and app ed, therefore we have omitted steel shop inspection. Erection & Mil Decking_Phases A, B, C 600 100 00 60,000 00 AWS Certified Welding Inspector AWS Certified Walkling Inspector Miscollangous 0.5 15 €0 Hours Hours 100 00 0.000 00 20 160 \$ 105.60 16,800 00 Nondestructive Testing Technician Hours \$ 150 00 2% Project Manager Portal to portal 20 3,000,00 Clerical / Report Distribution SUB-TOTAL 87,516.00 DIVISION 7: THERMAL AND MOISTURE PROTECTION Fireproofing - Included TERMS AND CONDITIONS Parking it not provided by client Will be provided by client SUB-TOTAL Daly

REMARKS This proposal is based on the email request from Mr. David Anderson, dated. July 20, 2018 along with the construction schedule dated 7.6/2018 and the Summary Schedule dated July 7/9/2018. See attached schedule of less for additional

GRAND TOTAL

ms and conditions

\$ 216,750.00

Twining, Inc. - Long Beach



Schedule of Fees 2018 - 2019

MOTE: Rates will be adjusted annually each July 1st to reflect increased costs.

Personnel Rates: Per Hour Unless Otherwise Noted

Task				Task			
Code	Engineering and Consulting Personnel		Rate	Code	Shop Inspection Personnal, continued		Rate
10026	Senior Principal Advisor/Consultant	\$	280.00	10325	Glue-Laminated Fabrication Inspector	Ċ	uotation
10001	Principal Engineer/Geologist	Š	185,00	10328	Pre-Cast Concrete/Pipe Fabrication Inspector	5	110.00
10017	Metallurgical Engineer	\$	180.00				
70000	Registered Geotechnical Engineer	S	180.00	Task			
				Code	Non-Destructive Testing Personnel		Rate
10010	Technical Advisor	\$	180.00	10401	NDE Ultrasonic Testing Technician	S	105.00
10011	Material Scientist, Welding/NDT Consultant	ş	1,100.00	10403	NDE Magnetic Particle Testing Technician	\$	105.00
70003	Registered Geologist/Certified	S	170.00	10405	NDE Dye Penetrant Testing Technician	\$	105.00
10000	Engineering Geologist Senior Engineer/Geologist	\$	165.00	10305	Combination NDE Technician/Welding Inspector	\$	105.00
10003 10009	Registered Civil Engineer	Ş	160.00	10409	Radiographic Testing (crew of 2)	\$	295.00
60003	Roofing/Waterproofing Consultant	Š	185.00	10020	NDE Engineer	Š	160.00
10013	Project Engineer/Manager	Š	150.00	10020	The Engineer	,	100.00
30000	Quality Control Manager	Ś	140.00	Task			
				Code	Equipment Usage (Daily Unless Otherwise Noted)		Rate
10005	Senior Staff Engineer/Geologist	\$	135.00	95318	Skidmore	\$	40.00
10007	Staff Engineer/Geologist	\$	130.00	95309	Torque Wrench, Small	S	15.00
10015	Quality Control Administrator	\$	120.00	95312	Torque Wrench, Large	\$	25.00
10019	Metallurgical Technician	\$	95.00	95315	Torque Multiplier	\$	40.00
100001	CADD Operator/Draftsperson	ş	85.00	95321	Air Meter	5	20.00
70107	Fie'd Supervisor	\$	115.00	95324	Brass Mold	Ş	20.00
91030	Safety Supervisor	ş	115.00	95343	Nuclear Gauge (Per Hour)	Ş	9.00
20000	Laboratory Manager	\$ \$	105.00 85.00	95333 95348	Pull Test Equipment Concrete/Asphalt Coring Equipment	5 5	60.00 600.00
98000	Laboratory Technician	\$	495.00	95327	Pachometer	\$	55.00
100005 91010	Expert Witness Testimony Qualified SWPPP Developer	Š	130.00	95336	Floor Flatness (Dipstick)	\$	45.00
91000	Qualified SWPPP Practitioner	š	120,00	95330	Schmidt Hammer	Š	20.00
31000	Consider Syr 11 11 actioner	•	120100	95341	Vapor Emission Test Kits	\$	30.00
				95342	Relative Humidity Probe	Š	60.00
Task				95339	UPV (Ultrasonic Pulse Velocity) Meter	\$	280.00
Code	Field Inspection Personnel		Rate				
10101	Concrete/Reinforced Steel Inspector	\$	100.00	95351	Fireproofing Adhesion/Cohesion (Per Test)	S	20.00
10103	Prestressed/Post Tensioned Inspector	\$	100,00	95300	A Scan Ultrasonic Equipment and Consumables	\$	65.00
10105	Concrete ICC Inspector	\$	100.00	95303	Magnetic Particle Equipment and Consumables	S	30.00
10109	Drilled-In-Anchor Inspector	S	100.00	95306	Liquid Penetrant Consumables	Ş	25.00
10111	Gunite/Shotcrete Inspector	\$ \$	100.00 100.00	95307 95347	Phased Array Ultrasonic Equipment (Per Hour) Ground Penetrating Radar (Per Hour)	S S	50.00 50.00
10113 10201	Masonry Inspector Structural Steet/Welding Inspector	\$	100.00	95345	Impact Echo	\$	280.00
10201	AWS Certified Welding Inspector	\$	100.00	95362	Ultrasonic Tomography	š	400.00
10207	Fireproofing Inspector	Š	100.00	95359	California Pavement Profilograph (Per Hour)	Š	115.00
10501	Lead Inspector	Š	113.00	95349	Inertial Profiler (Per Hour)	Š	250.00
10115	Firestop Special Inspector - IFC Premier	S	105.00	95357	Project Dedicated Vehicle	\$	100.00
10117	Firestop Special Inspector - IOP	\$	115.00	95362	Roller Compacted Concrete Vibrating Hammer/Tampling Plate	\$	60.00
70109	L.A. Deputy Grading Inspector	5	113.00	95367	Half-cell Potential Equipment Set	\$	250.00
75001	Asphalt Field and Plant Inspector/Technician	ş	110.00	95368	Concrete Electrical Resistivity Meter	\$	150.00
70103	Pile Driving Inspector	\$	110.00	Table			
70101	Soi's Technician	\$	100.00	Task	Caronianos Biatrita		Deve
101	0		100.00	20102	Specimen Pick-Up		Rate
10107	Concrete Quality Control (ACI/Caltrans Technician)	S	100.00	20102	Standard Sample: Concrete Cylinders (Each) Standard Sample: Mortar/Grout Cubes and Cores,	Ş	10.00
60001	Roofing/Waterproofing Inspector	\$	115.00	20101	Fireproofing, Rebar, and Epoxy Prisms (Each)	\$	20.00
10515	Mechanical Inspector	s	128.00	20103/	Oversize Sample: Masonry Prisms, Shotcrete Panels,	\$	47.00
10313	Machanical inspector	•	120.00	20104	Flexural Beams (Each)	•	47,00
10519	Electrical Inspector	\$	130.00	20107	Technician for Specimen Pick-Up Not Listed Above	\$	80.00
10010					(Per Hour, 2-Hour Minimum)		
10521	Plumbing Inspector	5	130.00	20109	Technician for Specimen Pick-Up Before 5:00 a.m.	\$	100.00
					or After 5:00 p.m. Monday thru Friday, or All Day Saturday (Per		
	- 45 - 4 - 5		100.65		Hour, 2-Hour Minimum Plus Mileage)		
10523	Building Inspector	\$ \$	130.00 113.00	Task			
50003	Field Engineering Technician	5	113.00	Code	Idheita Traffer Mobile or On eila Laboraton		Date
				95360	Jobsite Traffer, Mobile or On-site Laboratory Mobile laboratory for rapid set concrete	Š	Rate 375.00
				33500	(per shift not exceeding 12 hours)	9	573.00
Task					All others by quotation		
Code	Shop Inspection Personnel		Rate		, .		
10301	Structural Steel Fabrication Inspector	\$	110.00				
10309	Batch Plant Quality Control Technician/Inspector	\$	110.00				



Tack				Task	Chemical Analysis and Petrographic		
Task Codo	Concrete Tosts (Field Made Specimens)		Rate	Code	Examination of Concrete, continued		Rato
20201	6" x 12" or 4" x 8" Cylinder: Compression Strength	\$	32.00	80126	Chemical Analysis for Water Soluble Chlorides	\$	100.00
00000	(ASTM C39)	\$	75.00	80123	(ASTM C1218) (includes sample prep) Chemical Analysis for Acid Soluble Chlorides	s	250.00
20203	Density of Structural Lightweight Concrete Equilibrium or Oven Dry Method (ASTM C567)	•	70,00	CUILO	(ASTM C1152) (includes sample prep)	-	
20205	Core Compression including Trimming (ASTM C42)	\$	55.00	80193	Chloride Diffusion Coefficient of Cementitious	\$ 2	,000.00
	on on total and December Franchise	5	70.00	80129	Mixtures by Bulk Diffusion (ASTM C1556) Petrographic Examination of Hardened	S 1	600.00
20207	6" x 6" x 18" Flexural Beams Not Exceeding Referenced Size (ASTM C78, C293 or CTM 523)	3	70.00	60123	Concrete (ASTM 856) (Comprehensive)	٠.	,000.00
20208	6" x 6" x 30" Flexural Beams (CTM 523)	\$	85.00				
20209	Splitting Tensile Strength (ASTM C496)	\$	85.00	Task	Strategy Suppositionized Alcabota of Company		Rate
00014	Mark the of Classics Tool (ACTM CACO)	\$	225.00	80195	Physical and Chemical Analysis of Cement Physical Testing and Chemical Analysis of Portland Cement per	5 1	
20211	Modulus of Elasticity Test (ASTM C469)	٠	223.00	00100	Standard Requirements (ASTM C150)	•	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
80003	Rapid Chloride Permeability Test: Cylinders or	S	450.00	80100	Chemical Analysis of Portland Cement per	\$	550.00
	Cores (ASTM C1202)	s	350.00	80103	Standard Requirements (ASTM C150) Physical Testing of Portland Cement per	\$	600.00
80006	Density, Absorption, and Volds in Hardened Concrete (ASTM C642)	3	330.00	00103	Standard Requirements (ASTM C150)	٠	1100.00
40005	Flexural Toughness (ASTM C1609, Formerly	\$	700.00	80194	Physical Testing of Type K Cement, Mortar	\$	600.00
	ASTM C1018)		500.00	00400	Expansion (ASTM C806)	0	untation
40009	Coefficient of Thermal Expansion of Concrete	S	500.00	80106	Partial Analysis or Specific Physical Tests	u	uotation
	(CRD 39, AASHTO T336)			60110	Sulfates Resistance of Hydraulic	\$ 2	00.000,9
7					Cement (ASTM C1012) - 6 months		
Task	a character and a construction		Rate	809111	Sulfates Resistance of Hydraulic Cement (ASTM C1012) - 12 months	5 2	2,200.00
20151	Concrete Specimen Preparation Sawing of Specimens (Each)	\$	25.00		Centent (North Citte) - 12 months		
20157	Coring of Specimens in Lab (Each)	\$	25.00	Task	A STATE OF THE STA		
	• • • •			Code	Physical and Chemical Analysis of Fly Ash	_	Rate
				80140	Chemical Analysis of Fly Ash per Standard Requirements (ASTM C618)	\$	550.00
Task	Laboratory Trial Batch: Concrete, Coment and			80143	Physical Testing of Fly Ash per Standard Requirements	\$	530.00
Code	Mortar		Rate		(ASTM C618)		
30217	Compression Test Cylinders Made and Tested in	\$	45.00	80146	Partial Analysis or Specific Physical Tests	Q	luotation
20240	Laboratory (ASTM C192, C35) 6" x 6" x 18" Flexural Beams Made and Tested in	s	85.00	80147	Chemical Analysis and Physical Testing of Fly Ash per	S	1,000.00
30219	Laboratory (ASTM C192, C78)	•	QU.00	001-11	Standard Requirements (ASTM C1618)	•	
30221	6" x 6" x 30" Flexural Beams Made and Tested in	\$	95.00		•		
22222	Laboratory (ASTM C192, C293)	5	100.00	Task.	Physical Testing of Chemical Admixtures for		
30223	Splitting Tensile Strength Cylinders Made and Tested In Laboratory (ASTM C192, C496)	,	100.00	Code	Concrete		Rate
30225	Modulus of Elasticity Test Cylinders Made and Tested in	S	240.00	80196	Qualification of Admixture per ASTM C494	Qu	otation
	Laboratory (ASTM C192, C469)		00.00				
30227	Density of Structural Lightweight Concrete Made in the Laboratory, Equilibrium or Oven Dry Method (ASTM C567)	\$	86.00	Task .			
	Laboratory, Equipment of Oren Dry method (15 mm 000)						
				Code	Soils and Aggregate Tests		Rate
30201	Laboratory Trial Batch (ASTM C192)	S	450.00	30503	Abrasion: LA Rattler (ASTM C131)	\$	185.00
30201 30203	Laboratory Trial Batch; Packaged Dry Concrete	\$ \$	* 450.00 800.00			\$ \$	
	Laboratory Trial Batch; Packaged Dry Concrete Including Verification of Slump, Air Content, Plastic Unit			30503	Abrasion: LA Rattler (ASTM C131)		185.00
30203	Laboratory Trial Batch: Packaged Dry Concrete Including Verification of Slump, Air Content, Plastic Unit Weight, Six Cylinders for Compressive Strength (ASTM C387 and C192)	\$	800.00	30503 30505	Abrasion: LA Rattler (ASTM C131) Abrasion: LA Rattler (ASTM C535)	\$	185.00 195.00
	Laboratory Trial Batch; Packaged Dry Concrete Including Verification of Slump, Air Content, Plastic Unit Weight, Six Cylinders for Compressive Strength (ASTM C397 and C192) Drying Shrinkage Up to 28 Days: Three 3" x 3" or			30503	Abrasion: LA Rattler (ASTM C131)		185.00
30203	Laboratory Trial Batch: Packaged Dry Concrete Including Verification of Slump, Air Content, Plastic Unit Weight, Six Cylinders for Compressive Strength (ASTM C387 and C192) Drying Shrinkage Up to 28 Days: Three 3" x 3" or 4" x 4" Bars, Five Readings up to 28 Dry Days	\$	800.00	30503 30505	Abrasion: LA Rattler (ASTM C131) Abrasion: LA Rattler (ASTM C535)	\$	185.00 195.00 150.00
30203	Laboratory Trial Batch; Packaged Dry Concrete Including Verification of Slump, Air Content, Plastic Unit Weight, Six Cylinders for Compressive Strength (ASTM C397 and C192) Drying Shrinkage Up to 28 Days: Three 3" x 3" or	\$	800.00	30503 30505	Abrasion: LA Rattler (ASTM C131) Abrasion: LA Rattler (ASTM C535) Atterberg Limits/Plasticity Index (ASTM D4318, CTN204) California Bearing Ratio Excluding Maximum Density	\$	185.00 195.00
30203 30205 30230	Laboratory Trial Batch: Packaged Dry Concrete Including Verification of Slump, Air Content, Plastic Unit Weight, Six Cylinders for Compressive Strength (ASTM C337 and C192) Drying Shrinkage Up to 28 Days: Three 3* x 3" or 4* x 4" Bars, Five Readings up to 28 Dry Days (ASTM C157) Additional Reading, Per Set of Three Bars	\$ \$	450.00 450.00	30503 30505 70301 70303	Abrasion: LA Rattler (ASTM C131) Abrasion: LA Rattler (ASTM C535) Atterberg Limits/Plasticity Index (ASTM D4318, CTM204) California Bearing Ratio Excluding Maximum Density (ASTM D1883): Soil	\$	185.00 195.00 150.00 550.00
30203 30205	Laboratory Trial Batch: Packaged Dry Concrete Including Verification of Slump, Air Content, Plastic Unit Weight, Six Cylinders for Compressive Strength (ASTM C387 and C192) Drying Shrinkage Up to 28 Days: Three 3* x 3* or 4* x 4* Bars. Five Readings up to 28 Dry Days (ASTM C157) Additional Reading, Per Set of Three Bars Storage over Ninety (100) Days. Per Set of	\$	800.00 450.00	30503 30505 70301	Abrasion: LA Rattler (ASTM C131) Abrasion: LA Rattler (ASTM C535) Atterberg Limits/Plasticity Index (ASTM D4318, CTM204) California Bearing Ratio Excluding Maximum Density (ASTM D1883): Soil California Bearing Ratio Excluding Maximum Density	\$	185.00 195.00 150.00
30203 30205 30230	Laboratory Trial Batch: Packaged Dry Concrete Including Verification of Slump, Air Content, Plastic Unit Weight, Six Cylinders for Compressive Strength (ASTM C337 and C192) Drying Shrinkage Up to 28 Days: Three 3* x 3" or 4* x 4" Bars, Five Readings up to 28 Dry Days (ASTM C157) Additional Reading, Per Set of Three Bars	\$ \$	450.00 450.00	30503 30505 70301 70303	Abrasion: LA Rattler (ASTM C131) Abrasion: LA Rattler (ASTM C535) Atterberg Limits/Plasticity Index (ASTM D4318, CTM204) California Bearing Ratio Excluding Maximum Density (ASTM D1883): Soil California Bearing Ratio Excluding Maximum Density (ASTM D1883): Cement-Treated Scil Cement-Treated Scil Cement-Treated Soilin: includes three trial	\$ \$ \$	185.00 195.00 150.00 550.00
30203 30205 30230 30231	Laboratory Trial Batch: Packaged Dry Concrete Including Verification of Slump, Air Content, Plastic Unit Weight, Six Cylinders for Compressive Strength (ASTM C387 and C192) Drying Shrinkage Up to 28 Days: Three 3* x 3* or 4* x 4* Bars, Five Readings up to 28 Dry Days (ASTM C157) Additional Reading, Per Set of Three Bars Storage over Ninety (100) Days, Per Set of Three Bars, Per Month	\$ \$	450.00 450.00 45.00 30.00	30503 30505 70301 70303 70304	Abrasion: LA Rattler (ASTM C131) Abrasion: LA Rattler (ASTM C535) Atterberg Limits/Plasticity Index (ASTM D4318, CTM204) California Bearing Ratio Excluding Maximum Density (ASTM D1883): Soil California Bearing Ratio Excluding Maximum Density (ASTM D1883): Cement-Treated Scil Cement-Treated Soil Sase Mix Design: includes three trial cement contents with three unconfined compressive strength	\$ \$ \$	185.00 195.00 150.00 550.00
30203 30205 30230 30231 30207	Laboratory Trial Batch: Packaged Dry Concrete Including Verification of Slump, Air Content, Plastic Unit Weight, Six Cylinders for Compressive Strength (ASTM C387 and C192) Drying Shrinkage Up to 28 Days: Three 3* x 3* or 4* x 4* Bars, Five Readings up to 28 Dry Days (ASTM C157) Additional Reading, Per Set of Three Bars Storage over Ninety (100) Days, Per Set of Three Bars, Per Month Setting Time Up to 7 Hours (ASTM C403)	\$ \$ \$ \$ \$	450.00 450.00 45.00 30.00	30503 30505 70301 70303 70304	Abrasion: LA Rattler (ASTM C131) Abrasion: LA Rattler (ASTM C535) Atterberg Limits/Plasticity Index (ASTM D4318, CTM204) California Bearing Ratio Excluding Maximum Density (ASTM D1883): Soil California Bearing Ratio Excluding Maximum Density (ASTM D1883): Cement-Treated Scil Cement-Treated Scil Cement-Treated Soilin: includes three trial	\$ \$ \$	185.00 195.00 150.00 550.00
30203 30205 30230 30231	Laboratory Trial Batch: Packaged Dry Concrete Including Verification of Slump, Air Content, Plastic Unit Weight, Six Cylinders for Compressive Strength (ASTM C387 and C192) Drying Shrinkage Up to 28 Days: Three 3* x 3* or 4* x 4* Bars, Five Readings up to 28 Dry Days (ASTM C157) Additional Reading, Per Set of Three Bars Storage over Ninety (100) Days, Per Set of Three Bars, Per Month	\$ \$ \$ \$ \$	450.00 450.00 45.00 30.00 125.00 125.00 475.00	30503 30505 70301 70303 70304 70344 70305 30403	Abrasion: LA Rattler (ASTM C131) Abrasion: LA Rattler (ASTM C535) Atterberg Limits/Plasticity Index (ASTM D4318, CTM204) California Bearing Ratio Excluding Maximum Density (ASTM D1883): Soil California Bearing Ratio Excluding Maximum Density (ASTM D1883): Cement-Treated Scil Cement-Treated Soil/Base Mix Design: includes three trial cement contents with three unconfined compressive strength specimens per cement content (CTM 417, CTM 422) Clay Lumps and Friable Particles (ASTM C142)	\$ 5 5 5 S	185.00 195.00 150.00 550.00 650.00 3,000.00
30203 30205 30230 30231 30207	Laboratory Trial Batch: Packaged Dry Concrete Including Verification of Slump, Air Content, Plastic Unit Weight, Six Cylinders for Compressive Strength (ASTM C337 and C192) Drying Shrinkage Up to 28 Days: Three 3" x 3" or 4" x 4" Bars, Five Readings up to 28 Dry Days (ASTM C157) Additional Reading, Per Set of Three Bars Storage over Ninety (100) Days, Per Set of Three Bars, Per Month Setting Time Up to 7 Hours (ASTM C403) Bleeding (ASTM C232) Concrete Restrained Expansion (ASTM C878) Mix, Make and Test Mortar or Grout Specimens for	\$ \$ \$ \$ \$	450.00 450.00 45.00 30.00 125.00	30503 30505 70301 70303 70304 70344 70305	Abrasion: LA Rattler (ASTM C131) Abrasion: LA Rattler (ASTM C535) Atterberg Limits/Plasticity Index (ASTM D4318, CTM204) California Bearing Ratio Excluding Maximum Density (ASTM D1883): Soil California Bearing Ratio Excluding Maximum Density (ASTM D1883): Cement-Treated Scil Cement-Treated Soil/Base Mix Design: includes three trial cement contents with three unconfined compressive strength specimens per cement content Chloride and Sulfate Content (CTM 417, CTM 422)	\$ 5 5 5	185.00 195.00 150.00 550.00 650.00 130.00
30203 30205 30230 30231 30207 30209 30229 30211	Laboratory Trial Batch: Packaged Dry Concrete Including Verification of Slump, Air Content, Plastic Unit Weight, Six Cylinders for Compressive Strength (ASTM C337 and C192) Drying Shrinkage Up to 28 Days: Three 3" x 3" or 4" x 4" Bars, Five Readings up to 28 Dry Days (ASTM C157) Additional Reading, Per Set of Three Bars Storage over Ninety (100) Days, Per Set of Three Bars, Per Month Setting Time Up to 7 Hours (ASTM C403) Bleeding (ASTM C232) Concrete Restrained Expansion (ASTM C878) Mix, Make and Test Mortar or Grout Specimens for Compressive Strength: Set of 6 (ASTM C109, C942)	\$ \$ \$ \$ \$ \$ \$	450.00 45.00 30.00 125.00 125.00 475.00 400.00	30503 30505 70301 70303 70304 70344 70305 30403 30321	Abrasion: LA Rattler (ASTM C131) Abrasion: LA Rattler (ASTM C535) Atterberg Limits/Plasticity Index (ASTM D4318, CTM204) California Bearing Ratio Excluding Maximum Density (ASTM D1883): Soil California Bearing Ratio Excluding Maximum Density (ASTM D1883): Cement-Treated Scil Cement-Treated Soil/Base Mix Design: includes three trial cement contents with three unconfined compressive strength specimens per cement content (CTM 417, CTM 422) Clay Lumps and Friable Particles (ASTM C142)	\$ 5 5 5 S	185.00 195.00 150.00 550.00 650.00 3,000.00
30203 30205 30230 30231 30207 30209 30229	Laboratory Trial Batch: Packaged Dry Concrete Including Verification of Slump, Air Content, Plastic Unit Weight, Six Cylinders for Compressive Strength (ASTM C337 and C192) Drying Shrinkage Up to 28 Days: Three 3" x 3" or 4" x 4" Bars, Five Readings up to 28 Dry Days (ASTM C157) Additional Reading, Per Set of Three Bars Storage over Ninety (100) Days, Per Set of Three Bars, Per Month Setting Time Up to 7 Hours (ASTM C403) Bleeding (ASTM C232) Concrete Restrained Expansion (ASTM C878) Mix, Make and Test Mortar or Grout Specimens for	\$ 5 \$ \$ \$ \$ \$ \$ \$	450.00 45.00 30.00 125.00 125.00 475.00 450.00	30503 30505 70301 70303 70304 70344 70305 30403 30321 30322	Abrasion: LA Rattler (ASTM C131) Abrasion: LA Rattler (ASTM C535) Atterberg Limits/Plasticity Index (ASTM D4318, CTM204) California Bearing Ratio Excluding Maximum Density (ASTM D1883); Soil California Bearing Ratio Excluding Maximum Density (ASTM D1883); Cement-Treated Scil Cement-Treated Soil/Base Mix Design: includes three trial cement contents with three unconfined compressive strength specimens per cement content Chloride and Sulfate Content (CTM 417, CTM 422) Clay Lumps and Friable Particles (ASTM C142) Cleanness Value: 1" x #4 (CTM 227)	\$ 5 5 5 5 5	185.00 195.00 150.00 550.00 650.00 3,000.00 175.00 175.00 275.00
30203 30205 30230 30231 30207 30209 30229 30211	Laboratory Trial Batch: Packaged Dry Concrete Including Verification of Slump, Air Content, Plastic Unit Weight, Six Cylinders for Compressive Strength (ASTM C337 and C192) Drying Shrinkage Up to 28 Days: Three 3" x 3" or 4" x 4" Bars, Five Readings up to 28 Dry Days (ASTM C157) Additional Reading, Per Set of Three Bars Storage over Ninety (100) Days, Per Set of Three Bars, Per Month Setting Time Up to 7 Hours (ASTM C403) Bleeding (ASTM C232) Concrete Restrained Expansion (ASTM C878) Mix, Make and Test Mortar or Grout Specimens for Compressive Strength: Set of 6 (ASTM C109, C942) Non-Strink Grout: Height Change after Final Set (ASTM C10100) Non-Shrink Grout: Height Change at Early	\$ \$ \$ \$ \$ \$ \$	450.00 45.00 30.00 125.00 125.00 475.00 400.00	30503 30505 70301 70303 70304 70344 70305 30403 30321	Abrasion: LA Rattler (ASTM C131) Abrasion: LA Rattler (ASTM C535) Atterberg Limits/Plasticity Index (ASTM D4318, CTM204) California Bearing Ratio Excluding Maximum Density (ASTM D1883): Soil California Bearing Ratio Excluding Maximum Density (ASTM D1883): Cement-Treated Scil Cement-Treated Soil/Base Mix Design: includes three trial cement contents with three unconfined compressive strength specimens per cement content Chloride and Sulfate Content (CTM 417, CTM 422) Clay Lumps and Friable Particles (ASTM C142) Cleanness Value: 1* x #4 (CTM 227)	s s s s s s s	185.00 195.00 150.00 550.00 650.00 3,000.00 130.00 175.00
30203 30205 30230 30231 30207 30209 30229 30211 20263	Laboratory Trial Batch: Packaged Dry Concrete Including Verification of Slump, Air Content, Plastic Unit Weight, Six Cylinders for Compressive Strength (ASTM C387 and C192) Drying Shrinkage Up to 28 Days: Three 3* x 3* or 4* x 4* Bars. Five Readings up to 28 Dry Days (ASTM C157) Additional Reading, Per Set of Three Bars Storage over Ninety (100) Days, Per Set of Three Bars, Per Month Setting Time Up to 7 Hours (ASTM C403) Bleeding (ASTM C232) Concrete Restrained Expansion (ASTM C878) Mix, Make and Test Mortar or Grout Specimens for Compressive Strength: Set of 6 (ASTM C109, C942) Non-Shrink Grout: Height Change after Final Set (ASTM C10100) Non-Shrink Grout: Height Change at Early Age (ASTM C027)	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	450.00 450.00 30.00 125.00 125.00 475.00 400.00 450.00	30503 30505 70301 70303 70304 70305 30403 30321 30322 70393	Abrasion: LA Rattler (ASTM C131) Abrasion: LA Rattler (ASTM C535) Atterberg Limits/Plasticity Index (ASTM D4318, CTM204) California Bearing Ratio Excluding Maximum Density (ASTM D1883); Soil California Bearing Ratio Excluding Maximum Density (ASTM D1883); Cement-Treated Scil Cement-Treated Soil/Base Mix Design: includes three trial cement contents with three unconfined compressive strength specimens per cement content Chloride and Sulfate Content (CTM 417, CTM 422) Clay Lumps and Friable Particles (ASTM C142) Cleanness Value: 1" x #4 (CTM 227)	\$ 5 5 5 5 5	185.00 195.00 150.00 550.00 650.00 3,000.00 175.00 175.00 175.00
30203 30205 30230 30231 30207 30209 30229 30211 20263	Laboratory Trial Batch: Packaged Dry Concrete Including Verification of Slump, Air Content, Plastic Unit Weight, Six Cylinders for Compressive Strength (ASTM C337 and C192) Drying Shrinkage Up to 28 Days: Three 3" x 3" or 4" x 4" Bars, Five Readings up to 28 Dry Days (ASTM C157) Additional Reading, Per Set of Three Bars Storage over Ninety (100) Days, Per Set of Three Bars, Per Month Setting Time Up to 7 Hours (ASTM C403) Bleeding (ASTM C232) Concrete Restrained Expansion (ASTM C878) Mix, Make and Test Mortar or Grout Specimens for Compressive Strength: Set of 6 (ASTM C109, C942) Non-Strink Grout: Height Change after Final Set (ASTM C10100) Non-Shrink Grout: Height Change at Early	\$ 5 \$ \$ \$ \$ \$ \$ \$	450.00 45.00 30.00 125.00 125.00 475.00 450.00	30503 30505 70301 70303 70304 70344 70305 30403 30321 30322	Abrasion: LA Rattler (ASTM C131) Abrasion: LA Rattler (ASTM C535) Atterberg Limits/Plasticity Index (ASTM D4318, CTM204) California Bearing Ratio Excluding Maximum Density (ASTM D1883): Soil Califorria Bearing Ratio Excluding Maximum Density (ASTM D1883): Cement-Treated Scil Cement-Treated Scil/Base Mix Design: includes three trial cement contents with three unconfined compressive strength specimens per cement content CTM 417, CTM 422) Clay Lumps and Friable Particles (ASTM C142) Cleanness Value: 1" x #4 (CTM 227) Cleanness Value: 1.5" x .75" (CTM 227) Collapse Potential/Index (ASTM D5333)	\$ \$ \$ \$ \$ \$ \$	185.00 195.00 150.00 550.00 650.00 3,000.00 175.00 175.00 275.00
30203 30205 30230 30231 30207 30209 30229 30211 20263 20265 30232	Laboratory Trial Batch: Packaged Dry Concrete Including Verification of Slump, Air Content, Plastic Unit Weight, Six Cylinders for Compressive Strength (ASTM C337 and C192) Drying Shrinkage Up to 28 Days: Three 3" x 3" or 4" x 4" Bars. Five Readings up to 28 Dry Days (ASTM C157) Additional Reading, Per Set of Three Bars Storage over Ninety (1,00) Days, Per Set of Three Bars, Per Month Setting Time Up to 7 Hours (ASTM C403) Bleeding (ASTM C232) Concrete Restrained Expansion (ASTM C878) Mix, Make and Test Montar or Grout Specimens for Compressive Strength: Set of 6 (ASTM C109, C942) Non-Strink Grout: Height Change after Final Set (ASTM C10100) Non-Shrink Grout: Height Change at Early Age (ASTM C027) Cracking Resistance, Set of Three Rings, Laboratory Trial Batching, Test Unit Cracking or up to 28 Days (ASTM 1581)	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	450.00 450.00 30.00 125.00 125.00 475.00 400.00 450.00 700.00	30503 30505 70301 70303 70304 70344 70305 30403 30321 30322 70393 70396	Abrasion: LA Rattler (ASTM C131) Abrasion: LA Rattler (ASTM C535) Atterberg Limits/Plasticity Index (ASTM D4318, CTM204) California Bearing Ratio Excluding Maximum Density (ASTM D1883): Soil California Bearing Ratio Excluding Maximum Density (ASTM D1883): Cement-Treated Sciil Cement-Treated Soil/Base Mix Design: includes three trial cement contents with three unconfined compressive strength specimens per cement content CTM 417, CTM 422) Clay Lumps and Friable Particles (ASTM C142) Cleanness Value: 1" x #4 (CTM 227) Cleanness Value: 1.5" x .75" (CTM 227) Collapse Potential/Index (ASTM D5333) Compressive Strength of Molded Soil-Cement Cylinders (ASTM D1833)	\$ 5 5 5 5 5 5 5 5 5 5	185.00 195.00 150.00 550.00 650.00 3,000.00 175.00 175.00 175.00 105.00
30203 30205 30230 30231 30207 30209 30229 30211 20263	Laboratory Trial Batch: Packaged Dry Concrete Including Verification of Slump, Air Content, Plastic Unit Weight, Six Cylinders for Compressive Strength (ASTM C337 and C192) Drying Shrinkage Up to 28 Days: Three 3" x 3" or 4" x 4" Bars. Five Readings up to 28 Dry Days (ASTM C157) Additional Reading, Per Set of Three Bars Storage over Ninety (100) Days, Per Set of Three Bars, Per Month Setting Time Up to 7 Hours (ASTM C403) Bleeding (ASTM C232) Concrete Restrained Expansion (ASTM C878) Mix, Make and Test Mortar or Grout Specimens for Compressive Strength: Set of 6 (ASTM C109, C942) Non-Shrink Grout: Height Change after Final Set (ASTM C1010) Non-Shrink Grout: Height Change after Final Cracking Resistance, Set of Three Rings, Laboratory Trial Batching, Test Unit Cracking or up to 28 Days (ASTM 1581) Evaluation of Pre-Packaged Masonry Mortars	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	450.00 450.00 30.00 125.00 125.00 475.00 400.00 450.00	30503 30505 70301 70303 70304 70305 30403 30321 30322 70393	Abrasion: LA Rattler (ASTM C131) Abrasion: LA Rattler (ASTM C535) Atterberg Limits/Plastlicity Index (ASTM D4318, CTM204) California Bearing Ratio Excluding Maximum Density (ASTM D1883): Soil California Bearing Ratio Excluding Maximum Density (ASTM D1883): Cement-Treated Scill Cement-Treated Soil/Base Mix Design: includes three trial cement contents with three unconfined compressive strength specimens per cement content Chloride and Sulfate Content (CTM 417, CTM 422) Clay Lumps and Friable Particles (ASTM C142) Cleanness Value: 1-x #4 (CTM 227) Cleanness Value: 1.5* x .75* (CTM 227) Collapse Potential/Index (ASTM D5333) Compressive Strength of Modeled Soil-Cement	\$ \$ \$ \$ \$ \$ \$	185.00 195.00 150.00 550.00 650.00 3,000.00 175.00 175.00 175.00
30203 30205 30230 30231 30207 30209 30229 30211 20263 20265 30232	Laboratory Trial Batch: Packaged Dry Concrete Including Verification of Slump, Air Content, Plastic Unit Weight, Six Cylinders for Compressive Strength (ASTM C337 and C192) Drying Shrinkage Up to 28 Days: Three 3" x 3" or 4" x 4" Bars. Five Readings up to 28 Dry Days (ASTM C157) Additional Reading, Per Set of Three Bars Storage over Ninety (1,00) Days, Per Set of Three Bars, Per Month Setting Time Up to 7 Hours (ASTM C403) Bleeding (ASTM C232) Concrete Restrained Expansion (ASTM C878) Mix, Make and Test Montar or Grout Specimens for Compressive Strength: Set of 6 (ASTM C109, C942) Non-Strink Grout: Height Change after Final Set (ASTM C10100) Non-Shrink Grout: Height Change at Early Age (ASTM C027) Cracking Resistance, Set of Three Rings, Laboratory Trial Batching, Test Unit Cracking or up to 28 Days (ASTM 1581)	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	450.00 450.00 30.00 125.00 125.00 475.00 400.00 450.00 700.00	30503 30505 70301 70303 70304 70344 70305 30403 30321 30322 70393 70396	Abrasion: LA Rattler (ASTM C131) Abrasion: LA Rattler (ASTM C535) Atterberg Limits/Plasticity Index (ASTM D4318, CTM204) California Bearing Ratio Excluding Maximum Density (ASTM D1883): Soil California Bearing Ratio Excluding Maximum Density (ASTM D1883): Cement-Treated Sciil Cement-Treated Soil/Base Mix Design: includes three trial cement contents with three unconfined compressive strength specimens per cement content Chloride and Sulfate Content (CTM 417, CTM 422) Clay Lumps and Friable Particles (ASTM C142) Cleanness Value: 1*x #4 (CTM 227) Cleanness Value: 1.5* x .75* (CTM 227) Collapse Potential/Index (ASTM D5333) Compressive Strength of Molded Soil-Cement Cylinders (ASTM D1833) Consolidation Test: Full Cycle (ASTM 2435, CTM 219) Consolidation Test: Time Rate per Load Increment	\$ 5 5 5 5 5 5 5 5 5 5	185.00 195.00 150.00 550.00 650.00 3,000.00 175.00 175.00 175.00 105.00
30203 30205 30230 30231 30207 30209 30229 30211 20263 20265 30232	Laboratory Trial Batch: Packaged Dry Concrete Including Verification of Slump, Air Content, Plastic Unit Weight, Six Cylinders for Compressive Strength (ASTM C397 and C192) Drying Shrinkage Up to 28 Days: Three 3" x 3" or 4" x 4" Bars, Five Readings up to 28 Dry Days (ASTM C157) Additional Reading, Per Set of Three Bars Storage over Ninety (100) Days, Per Set of Three Bars, Per Month Setting Time Up to 7 Hours (ASTM C403) Bleeding (ASTM C232) Concrete Restrained Expansion (ASTM C878) Mix, Make and Test Mortar or Grout Specimens for Compressive Strength: Set of 6 (ASTM C109, C942) Non-Strink Grout: Height Change after Final Set (ASTM C10100) Non-Shrink Grout: Height Change at Early Age (ASTM C027) Cracking Resistance, Set of Three Rings, Laboratory Trial Batching, Test Unit Cracking or up to 28 Days (ASTM 1581) Evaluation of Pre-Packaged Masonry Mortars (ASTM C270)	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	450.00 450.00 30.00 125.00 125.00 475.00 400.00 450.00 700.00	30503 30505 70301 70303 70304 70305 30403 30321 30322 70393 70396 70309	Abrasion: LA Rattler (ASTM C131) Abrasion: LA Rattler (ASTM C535) Atterberg Limits/Plasticity Index (ASTM D4318, CTM204) California Bearing Ratio Excluding Maximum Density (ASTM D1883): Soil California Bearing Ratio Excluding Maximum Density (ASTM D1883): Soil Cement-Treated Soil/Base Mix Design: includes three trial cement contents with three unconfined compressive strength specimens per cement content Chloride and Sulfate Content (CTM 417, CTM 422) Clay Lumps and Friable Particles (ASTM C142) Cleanness Value: 1" x #4 (CTM 227) Cleanness Value: 1.5" x .75" (CTM 227) Collapse Potential/Index (ASTM D5333) Compressive Strength of Molded Soil-Cement Cylinders (ASTM D1633) Consolidation Test: Full Cycle (ASTM 2435, CTM 219) Consolidation Test: Time Rate per Load Increment (ASTM D2435, CTM 219)	\$ 5 5 5 5 5 5 5 5 5 5 5 5	185.00 195.00 150.00 550.00 650.00 3,000.00 130.00 175.00 275.00 105.00 195.00
30203 30205 30230 30231 30207 30209 30229 30211 20263 20265 30232	Laboratory Trial Batch: Packaged Dry Concrete Including Verification of Slump, Air Content, Plastic Unit Weight, Six Cylinders for Compressive Strength (ASTM C397 and C192) Drying Shrinkage Up to 28 Days: Three 3" x 3" or 4" x 4" Bars, Five Readings up to 28 Dry Days (ASTM C157) Additional Reading, Per Set of Three Bars Storage over Ninety (100) Days, Per Set of Three Bars, Per Month Setting Time Up to 7 Hours (ASTM C403) Bleeding (ASTM C232) Concrete Restrained Expansion (ASTM C878) Mix, Make and Test Mortar or Grout Specimens for Compressive Strength: Set of 6 (ASTM C109, C942) Non-Strink Grout: Height Change after Final Set (ASTM C10100) Non-Shrink Grout: Height Change at Early Age (ASTM C027) Cracking Resistance, Set of Three Rings, Laboratory Trial Batching, Test Unit Cracking or up to 28 Days (ASTM 1581) Evaluation of Pre-Packaged Masonry Mortars (ASTM C270)	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	450.00 450.00 30.00 125.00 125.00 475.00 400.00 450.00 700.00	30503 30505 70301 70303 70304 70305 30403 30321 30322 70393 70396	Abrasion: LA Rattler (ASTM C131) Abrasion: LA Rattler (ASTM C535) Atterberg Limits/Plasticity Index (ASTM D4318, CTM204) California Bearing Ratio Excluding Maximum Density (ASTM D1883): Soil California Bearing Ratio Excluding Maximum Density (ASTM D1883): Cement-Treated Scil Cement-Treated Scil Cement-Treated Scil Cement-Treated Scil Cement-Treated Sciliase Mix Design: includes three trial cement contents with three unconfined compressive strength specimens per cement content (CTM 417, CTM 422) Clay Lumps and Friable Particles (ASTM C142) Cleanness Value: 1" x #4 (CTM 227) Cleanness Value: 1.5" x .75" (CTM 227) Collapse Potential/Index (ASTM D5333) Compressive Strength of Molded Soil-Cement Cylinders (ASTM D1833) Consolidation Test: Full Cycle (ASTM 2435, CTM 219) Consolidation Test: Time Rate per Load Increment (ASTM D2435, CTM 219) Consolidation Test: Time Rate per Load Increment (ASTM D2435, CTM 219) Consolidation Test: Time Rate per Load Increment (ASTM D2435, CTM 219)	\$ 5 5 5 5 5 5 5 5 5 5 5	185.00 195.00 150.00 550.00 650.00 3,000.00 175.00 275.00 175.00 105.00
30203 30205 30230 30231 30207 30209 30229 30211 20263 20265 30232	Laboratory Trial Batch: Packaged Dry Concrete Including Verification of Slump, Air Content, Plastic Unit Weight, Six Cylinders for Compressive Strength (ASTM C397 and C192) Drying Shrinkage Up to 28 Days: Three 3" x 3" or 4" x 4" Bars, Five Readings up to 28 Dry Days (ASTM C157) Additional Reading, Per Set of Three Bars Storage over Ninety (100) Days, Per Set of Three Bars, Per Month Setting Time Up to 7 Hours (ASTM C403) Bleeding (ASTM C232) Concrete Restrained Expansion (ASTM C878) Mix, Make and Test Mortar or Grout Specimens for Compressive Strength: Set of 6 (ASTM C109, C942) Non-Strink Grout: Height Change after Final Set (ASTM C10100) Non-Shrink Grout: Height Change at Early Age (ASTM C027) Cracking Resistance, Set of Three Rings, Laboratory Trial Batching, Test Unit Cracking or up to 28 Days (ASTM 1581) Evaluation of Pre-Packaged Masonry Mortars (ASTM C270)	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	450.00 450.00 30.00 125.00 125.00 475.00 400.00 450.00 700.00	30503 30505 70301 70303 70304 70304 70305 30403 30321 30322 70393 70396 70309	Abrasion: LA Rattler (ASTM C131) Abrasion: LA Rattler (ASTM C535) Atterberg Limits/Plasticity Index (ASTM D4318, CTM204) California Bearing Ratio Excluding Maximum Density (ASTM D1883): Soil California Bearing Ratio Excluding Maximum Density (ASTM D1883): Soil Cement-Treated Soil/Base Mix Design: includes three trial cement contents with three unconfined compressive strength specimens per cement content Chloride and Sulfate Content (CTM 417, CTM 422) Clay Lumps and Friable Particles (ASTM C142) Cleanness Value: 1" x #4 (CTM 227) Cleanness Value: 1.5" x .75" (CTM 227) Collapse Potential/Index (ASTM D5333) Compressive Strength of Molded Soil-Cement Cylinders (ASTM D1633) Consolidation Test: Full Cycle (ASTM 2435, CTM 219) Consolidation Test: Time Rate per Load Increment (ASTM D2435, CTM 219)	\$ 5 5 5 5 5 5 5 5 5 5 5 5	185.00 195.00 150.00 550.00 650.00 3,000.00 130.00 175.00 275.00 105.00 195.00
30203 30205 30230 30231 30207 30229 30211 20263 20265 30232	Laboratory Trial Batch: Packaged Dry Concrete Including Verification of Slump, Air Content, Plastic Unit Weight, Six Cylinders for Compressive Strength (ASTM C387 and C192) Drying Shrinkage Up to 28 Days: Three 3* x 3* or 4* x 4* Bars, Five Readings up to 28 Dry Days (ASTM C157) Additional Reading, Per Set of Three Bars Storage over Ninety (100) Days, Per Set of Three Bars, Per Month Setting Time Up to 7 Hours (ASTM C403) Bleeding (ASTM C232) Concrete Restrained Expansion (ASTM C878) Mix, Make and Test Mortar or Grout Specimens for Compressive Strength: Set of 6 (ASTM C109, C942) Non-Strink Grout: Height Change after Final Set (ASTM C10100) Non-Shrink Grout: Height Change at Early Age (ASTM C027) Cracking Resistance, Set of Three Rings, Laboratory Trial Batching, Test Unit Cracking or up to 28 Days (ASTM 1581) Evaluation of Pre-Packaged Masonry Mortars (ASTM C270) Creep, ASTM C512 (One Year of Loading) Chemical Analysis and Potrographic Examination of Concrete	\$ 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	450.00 450.00 30.00 125.00 125.00 475.00 400.00 450.00 700.00 1,100.00 4,500.00	30503 30505 70301 70303 70304 70305 30403 30321 30322 70393 70396 70309 70311 70313	Abrasion: LA Rattler (ASTM C131) Abrasion: LA Rattler (ASTM C535) Atterberg Limits/Plasticity Index (ASTM D4318, CTM204) California Bearing Ratio Excluding Maximum Density (ASTM D1883): Soil California Bearing Ratio Excluding Maximum Density (ASTM D1883): Cement-Treated Scil Cement Contents with Universe unconfined compressive strength specimens per cement content (CTM 417, CTM 422) Clay Lumps and Friable Particles (ASTM C142) Cleanness Value: 1" x #4 (CTM 227) Cleanness Value: 1.5" x .75" (CTM 227) Collapse Potential/Index (ASTM D5333) Compressive Strength of Molded Soil-Cement Cylinders (ASTM D1833) Consolidation Test: Full Cycle (ASTM 2435, CTM 219) Consolidation Test: Time Rate per Load Increment (ASTM D2435, CTM 219) Cornosivity Senes: Sulfate, CI, pH, Resistivity (CTM 643, 417, and 422) Crushed/Fractured Particles (ASTM D5821, CTM 205)	\$ 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	185.00 195.00 150.00 550.00 650.00 3,000.00 175.00 175.00 175.00 195.00 45.00 175.00
30203 30205 30230 30231 30207 30229 30211 20263 20265 30232 30233 30234	Laboratory Trial Batch: Packaged Dry Concrete Including Verification of Slump, Air Content, Plastic Unit Weight, Six Cylinders for Compressive Strength (ASTM C337 and C192) Drying Shrinkage Up to 28 Days: Three 3* x 3* or 4* x 4* Bars. Five Readings up to 28 Dry Days (ASTM C157) Additional Reading, Per Set of Three Bars Storage over Ninety (100) Days, Per Set of Three Bars, Per Month Setting Time Up to 7 Hours (ASTM C403) Bleeding (ASTM C232) Concrete Restrained Expansion (ASTM C878) Mix, Make and Test Mortar or Grout Specimens for Compressive Strength: Set of 6 (ASTM C109, C942) Non-Shrink Grout: Height Change after Final Set (ASTM C1010) Non-Shrink Grout: Height Change after Final Catching Resistance, Set of Three Rings, Laboratory Trial Batching, Test Unit Cracking or up to 28 Days (ASTM 1581) Evaluation of Pre-Packaged Masonry Mortars (ASTM C270) Creep, ASTM C512 (One Year of Loading)	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	450.00 450.00 30.00 125.00 475.00 400.00 450.00 700.00 5,000.00 1,100.00	30503 30505 70301 70303 70304 70304 70305 30403 30321 30322 70393 70396 70309 70311	Abrasion: LA Rattler (ASTM C131) Abrasion: LA Rattler (ASTM C535) Atterberg Limits/Plasticity Index (ASTM D4318, CTM204) California Bearing Ratio Excluding Maximum Density (ASTM D1883): Soil California Bearing Ratio Excluding Maximum Density (ASTM D1883): Cement-Treated Sciil Cement-Treated Sciil/Base Mix Design: includes three trial cement contents with three unconfined compressive strength specimens per cement content Chloride and Sulfate Content (CTM 417, CTM 422) Clay Lumps and Friable Particles (ASTM C142) Cleanness Value: 1*x #4 (CTM 227) Cleanness Value: 1.5* x .75* (CTM 227) Collapse Potential/Index (ASTM D5333) Compressive Strength of Molded Soil-Cement Cylinders (ASTM D1833) Consolidation Test: Full Cycle (ASTM 2435, CTM 219) Consolidation Test: Time Rate per Load Increment (ASTM D2435, CTM 219) Cornosivity Series: Sulfate, CI, pH, Resistivity (CTM 433, 417, and 422)	\$ 5 5 5 5 5 5 5 5 5 5 5 5 5	185.00 195.00 150.00 550.00 650.00 3,000.00 175.00 175.00 175.00 105.00 195.00 45.00



70319 70321	Soils and Aggregate Tests, continued Direct Shear Test: Undisturbed - Slow [CD] (ASTM D3080)	S	Rate	Code	Soils and Aggregate Tests, continued		Rate
			225.00	30317	Unit Weight Per Cubic Foot (ASTM C29, CTM 212)	S	125.00
	Direct Shear Test: Undisturbed - Fast [CU] (ASTM D3080)	\$	195.00	30319	Volds in Aggregate with Known Specific Gravity (ASTM C29, CTM 212)	\$	125.00
70378	Durability Index: Per Method - A.B.C. or D (CTM 229, ASTM D3744)	\$	210.00	Ta-t			
70325	Expansion Index (ASTM D4829, UBC 18-2)	S	170.00	Task Code	Asphalt Concrete Tests		Rate
75004	Fine Aggregate Angularity (AASHTO T304, ASTM C1252, CTM 234)	\$	185.00	75031	HMA Mixing and Preparation	\$	125.00
30507 30508	Flat and Elongated Particle (ASTM D4791) Flat or Elongated Particle (ASTM D4791)	\$ \$	225.00 195.00	75032 75033	HMA Mixing and Preparation with Aggregate Treatment Bulk Specific Gravity of Compacted Sample or Core: SSD (CTM 308C and ASTM D2726)	\$ \$	175.00 50.00
70331	Maximum Density: Methods A/B/C (ASTM D1557, D698, CTM 216)	\$	1,100.00	75036	Bulk Specific Gravity of Compacted Sample or Core: Paralin Coated (CTM 308A and ASTM D1188)	\$	75.00
70333	Maximum Density: Check Point (ASTM D1557, D698)	\$	65.00	75040	Emulsion Residue, Evaporation (ASTM D244)	\$	150.00
70335	Maximum Density: AASHTO C [Modified] (AASHTO T-180)	\$	195.00	75024	Extraction: % Bitumen (CTM 382, ASTM D6307)	S	160.00
70337	Moisture Content (ASTM D2216,CTM 226)	\$	25.00	75027	Extraction: % Bitumen and Gradation (CTM 382, CTM 202, ASTM D6307, ASTM D5444)	\$	205.00
70339	Moisture and Density: Ring Sample (ASTM D2937)	\$	30.00	75028	Extraction: % Bitumen, Correction Factor (CTM 382, ASTM D6307)	\$	325.00
70341	Moisture and Density: Shelby Tube Sample (ASTM D2937)	\$	40.00	75030	Chemical Extraction: % Bitumen and Sleve Analysis (ASTM D2172 Method A or B, ASTM D5444)	\$	245.00
70340	Moisture-Density Relations of Soil-Cement Mixtures Premixed in the Field (ASTM D558)	\$	275.00	75042	Lab Tested Maximum Density: Hveem, 3 briquettes (CTM 304, CTM 308, ASTM D1561, ASTM D1188)	S	205.00
70342	Moisture-Density Relations of Soil-Cement Mixtures Mixed in the Lab (ASTM D558)	\$	350.00	75057	Hyeem Stabilometer Test, Premixed, 3 briquettes (CTM 304, CTM 366, ASTM D1560, ASTM D1561)	s	205.00
30401	Organic Impurities (ASTM C40, CTM 213)	\$	100.00	75048	Lab Tested Maximum Density: Marshall, 3 briquettes (ASTM D6926,ASTM D2726)	\$	205.00
70343	Permeability (ASTM D5084)	Qu	otation	75049	Lab Tested Maximum Density: Marshall 6" Specimen, 3 briquettes (ASTM D5581, ASTM D2726)	\$	215.00
80001	Potential Reactivity: Chemical Method (ASTM C289)	\$	475.00	75050	Lab Tested Maximum Density: Superpave Gyratory Compacted Briquette, SSD, 1 briquette (ASTM D6925, ASTM D2726)	S	75.00
70394	Potential Reactivity: Mortar Bar Expansion Method, 14-Day Exposure (ASTM C1260)	\$	750.00	75052	Lab Tested Maximum Density. Superpave Gyratory Compacted Briquette, Parafin, 1 briquette (ASTM D6925, ASTM D1188)	S	85.00
70391	Potential Reactivity: Mortar Bar Expansion Method, 28-Day Exposure (ASTM C1260)	\$	00.008	75051	Maximum Theoretical Specific Gravity (RICE) (CTM 309, ASTM D2041)	\$	155.00
70398	Potential Reactivity: Concrete Bar Expansion, Method (ASTM C1293), 12 month	\$	2,400.00	75066	Marshall Stability and Flow, Cored Sample, each (ASTM D6927)	S	75.00
70399	Potential Reactivity: Concrete Bar Expansion, Method (ASTM C1293), 24 month	S	2,600.00	75069	Marshall Stability and Flow, Premixed, 3 briquettes (ASTM D6926, ASTM D6927)	s	205.00
70397	Potential Reactivity of Aggregate Combination, 14-Day Exposure, Mortar (ASTM C1567)	S	1,000.00	75106	Marshall Stability and Flow, Gyratory Compacted Specimen Pre-Mixed, 3 briquettes (ASTM D6925, ASTM D5581)	\$	225.00
70392	Potential Reactivity of Aggregate Combination, 28-Day Exposure, Mortar (ASTM C1567)	\$	950.00	75107	Marshall Stability and Flow 6" Specimen, Premixed, 3 briquettes (ASTM D5581)	S	215.00
70345	R-Value: Soil (ASTM 2844, CTM 301)	s	375.00	75063	Moisture Content (CTM 370)	\$	85.00
70347	R-Value: Aggregate Base (ASTM D2844, CTM 301)	\$	410.00	75005	Wet Track Abrasion Test (ASTM D3910)	\$	150,00
70349 70351	Sand Equivalent (ASTM D2419, CTM 217) Sleve I/200 Wash Only (ASTM D1140, CTM 202)	\$ \$	125.00 100.00	75093 75096	Hveem Mix Design (Excluding Aggregate Quality Tests) Hveem Mix Design, with RAP (Excluding Aggregate Quality Tests, RAP Qualification)		3,000.00 3,300.00
70353	Sieve with Hydrometer: 3/4" Gravel to Clay (ASTM D422, CTM 203)	\$	250.00	75099	Hyeem Mix Design, with Lime (Excluding Aggregate Quality Tests)	\$	3,550.00
70355	(ASTM D422, CTM 203) Sleve with Hydrometer: Sand to Clay (ASTM D422, CTM 203)	\$	240.00	75094	Hyeem Mix Design Caltrans Untreated Mix (Including Aggregate Quality Tests)	\$	4,200.00
70357	Sleve Analysis Including Wash (ASTM C136, CTM 202)	\$	150.00	75095	Hveem Mix Design Caltrans Lime Treated Mix (Including Aggregate Quality Tests)	\$	4,300.00
70359 70360	Sieve Analysis: Without Wash (ASTM C136, CTM 202) Sieve Analysis: Split Sieve (ASTM C136, CTM 202)	\$ \$	120.00 240.00	75084 75087	Marshall Mix Design (Excluding Aggregate Quality Tests) Marshall Mix Design with RAP (Excluding Aggregate Quality Tests)		3,000.00 3,300.00
70361	Slave Analysis Without Wash; With Cobbles	\$	235.00	750100	Marshall Mix Design with Lime (Excluding Aggregate	S	3,550.00
70363	(ASTM C136, CTM 202) Soundness: Sodium or Magnesium Sulfate,	s	450.00	75083	Quality Tests) Open Grade Asphalt Concrete Mix Design	\$	1,350.00
70365	5 Cycles (ASTM C88) Specific Gravity and Absorption: Coarse	S	100.00	75109	(CTM 368, ASTM 07064) Superpave Mlx Design (Excluding Aggregate Quality Tests)	s	4,770.00
70367	(ASTM C127, CTM 206) Specific Gravity and Absorption: Fine	\$	165.00	75113	Superpave Mix Design, with RAP	\$6	0,100.00
70369	(ASTM C128, CTM 207) Swell/Settlement Potential: One Dimensional (ASTM D4546)	\$	105.00	75114	(Excluding Aggregate Quality Tests) Superpave Mix Design, with Rubber (Excluding Aggregate Quality Tests)	\$	6,200.00
70371	Triaxial		Quotation		The second of th		
70373	Unconfined Compression (ASTM D2166, CTM 221)	\$	135.00				
					Concrete Roof Fill: Gypsum, Vermiculite, Perlite,		



75115	Superpave Mix Design, with Additives	\$	55,100.00	20371	Compression Test (ASTM C495 and C472)	\$	40.00
	(Excluding Aggregate Quality Tests)	_					
75075	Effect of Molsture on Asphalt Paving Mixtures, Pre-Mixed (AASHTO T283, ASTM D4867)	\$	1,000.00	20373	Air Dry Density (ASTM C472)	Ş	30.00
75111	Hamburg Wheel Track Test, 20,000 passes, 4 briquettes	\$	1,000.00	20379	Oven Dry Density (ASTM C495)	s	55.00
,	(AASHTO T324)				,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	•	
75116	Hamburg Wheel Track Tost, 25,000 passes, 4 briquettes	\$	1,200.00				
75039	(AASHTO T324) Raveling Test of Cold Mixed Emulsified Asphalt	\$	200.00	Täsk			
15039	(ASTM D7196)	٠	200.00	Code	Reinforcing Steel, ASTM A615, A706		Rate
75067	Marshall Stability, wet set, 3 replicates (AASHTO T	\$	325.00	20501			55.00
	245)	_					
75068	Marshall Stability, dry set, 3 replicates (AASHTO T 245)	\$	275.00	20503	Bend Test: # 11 or Smaller	\$	50.00
75070	Cold Recycled Asphalt Mix Design: 2 gradings each, 3	s	9,500.00	20504	Bend Test #14 or #18	s	300.00
	emulsion content (Caltrans LP-8)					•	
Task				20505	Tensile Test: # 14	\$	200.00
Code	Situation and the State of the		Rate	20507	Tensile Test: # 18	\$	300.00
20301	Brick Masonry Tests, ASTM C67	Š	45.00				
	Modulus of Rupture: Flexural (5 Required Per ASTM)	S		Task			
20303	Compression Strength (3 Required Per ASTM)	•	45.00	Code	Reinforcing Steel - Wolded or Coupled Specimens		Rate
20305	About the filter of the state o	\$	50.00	20521	Tensile Test: Welded/Coupled #11 and Smaller		
20305	Absorption: 5 Hour or 24 Hour (5 Required) Absorption (Boil): 1, 2 or 5 Hours (5 Regulred)	\$	60.00	20523	Tensile Test: Welded/Coupled #11 and Smaller Tensile Test: Welded/Coupled #14	\$ \$	65.00 225.00
20307		5	40.00	20525	Tensile Test: Welded/Coupled #18	5	325.00 325.00
20309	Initial Rate of Absorption (5 Required) Efflorescence (5 Required)	Š	60.00	20529	Weld: Macroetch	5	70.00
20311	Cores: Compression	Š	55.00	20525	Stippage Test - Caltrans (CTM 670)	Š	180.00
20315	Shear Test on Brick Cores: 2 Faces	š	80.00	20532	Tensie Test: Welded Hoops #11 and Smaller	Š	125.00
20310	Silear rest on prick Cores. 2 Pages	•	00.00	10002	reisse rest reided riddps #11 and ginaner	•	120.00
Task				Task			
Code	Concrete Block, ASTM C140		Rate	Code	Metal and Steel Testing		Rate
20321	Compression (3 Required Per ASTM)	S	80.00	20601	Tensile Strength: Up to 100K Pounds (Each)	\$	55.00
20323	Absorption/Moisture Content/Oven Dry Density	Š	80.00	20603	Tensile Strength: Up to 200K Pounds (Each)	š	65.00
	(3 Required Per ASTM)	•				•	44.44
20327	Linear Shrinkage (ASTM C426)	\$	200.00	20605	Tensile Strength: Up to 300K Pounds (Each)	\$	75. 0 0
20335	Web and Face Shell Measurements	s	40.00	20607	Tensile Strength: Up to 400K Pounds (Each)	\$	125,00
20329	Tension Test	S	150.00	20609	Tensile Strength: 400K to 600K Pounds (Each)	Ś	300,00
20331	Core Compression	s	55.00	20611	Tensile Strength: Stress-Strain Percent Offset	\$	150.00
20333	Shear Test of Masonry Cores: 2 Faces	5	75.00	20545	Weld: Macroetch	s	70.00
20339	Efflorescence Tests (3 Required)	\$	40.00	20547	Weld: Fracture	S	30.00
				20615	Bend Test	Š	46.00
Task				20617	Flattening Test	\$	55.00
Code	Masonry Prisms, ASTM C 13.14		Rate				
-20341	Compression Test: Composite Masonry	\$	185.00	20619	Brinnel and Rockwell Hardness Test	\$	75.00
	Prisms Up To 8" x 16"				(ASTM E18) (Per Test)		
20343	Compression Test: Composite Masonry	\$	245.00	20630	Bolt: Axial Tensile Test (Up to 7/8" diameter)	\$	40.00
	Prisms Larger Than 8" x 16"	_					
20346	Prism Gord Modulus of Etasticity	\$	525.00	20631	Bolt: Wedge Tensile Test (Up to 7/8" diameter)	S	55.00
20347	Prism Cord Modulus of Elasticity with Transverse	\$	630.00	20632	Bolt: Axial Tensile Test (Greater than 7/8*	S	60.00
	•			20633	Bolt: Wedge Tensile Test (Greater than 7/8"	\$	75.00
Tack				00004	up to 1" diameter)		
Task	hedin and dear		ė.i.	20634	Bolt: Axial Tensile Test (Greater than 1" diameter)	(Ductation
Code	Mortar and Grout	Ś	55.00	20625	Date Mades Torolle Test (Courter these 42 diameter		
20351	Compression: 2" x 4" Mortar Cylinders (ASTM C780)	S	32.00	20635 20636	Bolt: Wedge Tensile Test (Greater than 1" diameter)		Quotation
20353	Compression: 3" x 3" x 6" Grout Prisms, Includes Trimming (ASTM C119)	Þ	32.00	20036	Bolt: Proof Load Test (Up to 7/8")	\$	65.00
20355	Compression: 2" Cubes (ASTM C109)	\$	55.00	20637	Bolt: Proof Load Test (Greater than 7/8" up to 1" diameter)	s	85.00
20357	Compression: Cores (ASTM C109)	Š	55.00	20638	Bolt: Proof Load Test (Greater than 1")		oo.oo luolation
20331	Compression. Cores (ASTAT C-12)	9	55.00	20639	Nut: Proof Load Test (Up to 7/8")	s	45.00
Task				20640	Nut: Proof Load Test (Greater than 7/8" up to 1" diameter)	Š	65,00
Code	Masonry Specimen Proparation		Rate		The state of the s	٠	00,00
20155	Culting of Cubes or Prisms	Š	50.00	20641	Nut: Proof Load Test (Greater than 1*)	(Juctation
		•		Task		•	
				Code	Chemical Testing of Metal and Steel		Rate
Task				80170	Steel Chemical Analysis	s	135.00
Code	Fireproofing Tests		Rate		• •	•	
20401	Oven Dry Density (Per Sample) (ASTM E605)	Ş	65.00	80173	Weight of Galvanized Coating (ASTM A100)	\$	75.00
	, , ,	-				-	
Task	And the second second second		20.0				
Code	Gunite and Shotcrete Tosts		Rate				
20361	Core Compression Including Trimming (ASTM C42)	S	55.00				
20363	Compression: 6" x 12" Cylinders	S	32.00		· · · · · · · · · · · · · · · · · · ·		
20365	Compression: Cubes (Includes Saw Cutting)	\$	74.00				



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Task	Machining and Preparation of Tensile and Bend			Task	
Code	Sample: Carbon Steel		Rate	Code Polymer Matrix Composite Materials (Fiberwrap)	Rate
20751	Machinist: Initial Preparation from Mock-up, Etc. (Per Hour)	S	100.00	20706 Tonsile Strength – Set of 5 Specimens/batch/ direction (ASTM D3039)	\$ 1,350.00
20753	Sawcut to Overall Width (Per 0.5" Thickness or Fraction Thereof)	\$	45.00	20707 Tensile Strength – Additional Specimens (ASTM D3039)	\$ 250.00
20755	Machine to Test Configuration; Milled Specimens (Per 0.5" Thickness or Fraction Thereof)	\$	60.00	20708 Heating Chamber Time – Per 24 hr period (ASTM D3039)	\$ 85.00
20757	Machine to Test Configuration: Turned Specimens (Per 0.5" Thickness or Fraction Thereof)	\$	120.00	. .	
20759	Prepare Subsize Specimens (Per 0.5" Thickness or Fraction Thereof)	\$	75.00	Task Code Calibration Services and Universal Machine Usage	Rate
	· * * * * * * * * * * * * * * * * * * *		2.7	20801 Calibration/Verification Services	Quotation
Task	Charpy Impact		Rate	20803 Universal Test Machine Usage (Per Hour)	\$ 275.00
20621	Charpy Impact Ambient Temperature, per sample (Average of 3 Samples Typically Required)	s	85.00		
20623	Charpy Impact Reduced Temperature, per sample (Average of 3 Samples Typically Required)	\$	105.00	Ceramic Tile Testing Division	
Task	Machining of Charpy Samples: Carbon Steel		Rate	The Ceramic Tile Institute of America (CTIOA) and Twining worked toge	ther to advance
20780	Cutting and Milling (Per 0.5* or Fraction Thereafter) (Average of 3 Samples Typically Required)	\$	75.00	and develop technology designed to enhance the quality of materials an in the ceramic (ité industry. A separate schedule of fees for these servic upon request.	
20783	Final Machining to Sample Configuration (Average of 3 Samples Typically Regulred)	\$	85.00	Cyclic and Fatigue Testing Programs on Special Products/Parts	Quotation
	(Average of 3 Samples Typically Addulted)			Engineering and Technical supports/Design of Prototypes and Special Test Sal-Up	Quotation
Task	Prestressing Wires and Tendons, ASTM		Rate	Fastener/Coupling Full Testing Program Per New Regulations: Tension,	Quotation
20701	Stress-Strain Analysis: Wire or Strands (Including Chart and Percent Offset)	\$	170.00	Fiberglass/Composite Materials Field Testing Program (ASTM 04065, D1143, D4923, D2584, D4476, D1242, D71001, D7921, and D732)	Quotation
20703	Tensile Test Only	\$	125.00	Field Testing of Structures and Structural Elements	Quotation
20705	Tendons	1	, Quotation	In-Place Shear Testing Materials and/or Product Evaluation Per Specifications Structural Dynamic Testing and Durability Analysis	Quotation Quotation Quotation
				· .	

General Conditions

NOTE: Field inspection work conditions are established by contract with Operating Engineers, Local 12.

NOTE: A minimum of 24 hours notice is required for testing and inspection services.

NOTE: For projects subject to a Project Labor Agreement (PLA), if terms/conditions of the PLA are more restrictive those terms/conditions will apply.

Administrative Fees
All administrative costs including report distribution and Twining ConstructionHive system are billed at the following percentage of the monthly invoice total:
4%
Note that hard copies of reports will be sent only to governing jurisdictions that mandate them. All other parties will receive reports electronically. The administrative fee above will be increased by 1% if additional hard copies of reports are requested.

Minimum Charges (Inspection and Technician Personnel Only - Other Personnel Charged on Portal to Portal Basis)

2-Hour Minimum; Inspector arrives at jobsite, no work to perform.

4-Hour Minimum: 1 to 4 hours of Inspection

8-Hour Minimum: Over 4 to 8 hours of inspection

Regular Time

The first 8 hours worked Monday through Friday between 5:00 a.m. and 5:00 p.m.

Time and One-Half (All Types of Inspection)

All shifts will be billed based on the time and date of their start. Any increment past 8 hours through 12 hours worked Monday through Friday and the first 12 hours on Saturday. Time and one-half will also be charged for any time before 5:00 a.m. and after 5:00 p.m.

Double Time (All Types of Inspection)
All shifts will be billed based on the time and date of their stan. After the first 12 hours worked Monday through Saturday, all day Sunday, holidays, and the first Saturday following the first Friday in June and December. Holidays are New Year's Day, Memorial Day, Independence Day, Labor Day, Veterans Day, Thanksgiving Day, the day after Thanksgiving, and Christmas Day.

When personnel are required by their duties to work more than five consecutive hours without a one-half hour uninterrupted meal period, one half hour at double time rate will be charged in addition to any applicable overtime for actual hours worked.

Shift Differential (Applies to Regularly Scheduled Shifts Only)

Shift Differential (Applies to Regularly Scheduled Shifts Only)
A \$1.00 per hour shift differential premium will be charged for all inspection hours that fall outside of the 5:00 a.m. to 5:00 p.m. time period. Twining will require 48-hour notice prior to beginning a shift that will include hours falling outside this time period. Should this notice not be provided, all work performed on that shift will be billed at the overtime rate.

If three shifts per day are required, the first shift will be billed at the standard rate. The second shift shall be billed in accordance with the previous paragraph. The third shift shall be billed at 8 hours for the first 6 1/2 hours worked and overtime for all hours thereafter.



General Conditions, continued

Travel Time and Miloago

For projects outside a 50-mile radius from the nearest Twining facility, \$ 0.70 per excess mile to and from the project will be charged for inspectors and technicians. Other than small tooks, whenever project related equipment is required to be transported to and from the project site, time and mileage for inspectors and field technicians will be bifled on a portal to portal basis. For all projects, our per mile rate and applicable travel time will be charged portal to portal for engineers, consultants, supervisors, and laboratory technicians from the laboratory to the project site and return.

For work locations located 100 miles or more from Twining, travel time will be charged at the relevant rate for inspectors and technicians in addition to a subsistence allowance.

Saturday Sample Pick-Up-

In order to be in strict conformance with testing standards, it may be required that Saturday pick-ups be performed (e.g. concrete specimens cast on Friday must be picked up on Saturday in order to be in conformance with ASTM C31 requiring specimens to be moved to their final curing location within 48 hours of casting.) Applicable charges for Saturday work will apply when this is required. Should these charges not be authorized then Twining will not be responsible for any negative consequences.

Reimbursable Expenses

Parking, air fare, car rental, food and fodging, etc. will be charged at cost plus 20% per processed invoke, unless provided by client.

Project Specific Documents

Costs presented assume that client will provide project specific documents (plans, specifications, submittals, RFIs, etc.) for all inspection personnel. Should project specific documents be provided electronically through a for fee service, the client will be responsible for providing access and paying any fees for the service.

Project Site Facilities

Prices quoted assume that initial curing facilities for test samples that comply with relevant test standards and project requirements and desk space for inspection staff are provided by others. Additional costs will apply should Twining be required to provide such facilities

Subsistence

Subsistence on remote lobs will be charged per quotation.

Laboratory Testing Hours

Please note that laboratory testing will be billed on an hourly basis for non-standard tests. If testing is required to be performed on Saturdays, Sundays, holidays, or before 5:30 a.m. or after 4:00 p.m. on weekdays, an additional hourly charge with a minimum of one hour will be applied for the laboratory technician. 1.5 x regular test rate will be charged for nish testing.

Charges for Subcontracted Services

Material sent to outside laboratory for testing:

Material sent to putside laboratory for testing:

Cost plus 20%

Material sent to putside fabricator or machine shop:

Cost plus 20%

Glu-Lam beam inspection:

Cost plus 20%

Other subcontractors:

Cost plus 20%

Project exclusive equipment purchase:

Cost plus 20%

Limit of Clability

Client agrees to limit Twining's aggregate liability to all entities for alleged or actual errors and omissions in the performance of its professional services under this agreement to \$50,000.00 or the fees actually paid to Twining, whichever amount is greater. Higher limits may be available by quotation.

Gertified Payroll

Certified payroll will be provided, upon request, at an additional charge of \$100.00/month. Fee applies to every month that certified payroll must be submitted regardless of whether or not services were provided for any given month.

Final Reports Required by Jurisdiction

If a final report or affidavit is required, we must first review all inspection and testing reports and clear up any unresolved issues on these reports. These issues will typically require approval by the engineer or architect of record. This process can take several weeks or just a day, depending on the number and complexity of the issues. Cost for final reports will be bifled hourly.

Terms of Paymont

Fees charged are for professional and technical services and are due upon presentation. If not paid within 30 days from date of invoice, they are considered past due and a finance charge of 15% per month will be added to the unpaid balance (APR 18%).

All invoice errors or necessary corrections shall be brought to the attention of Twining within 15 days of receipt of invoice. Thereafter, customer acknowledges invoices are correct and valid. Twining reserves the right to terminate its services to a customer without notice if all invoices are not current. Upon such termination of services, the entire amount accrued for all services performed shall immediately become due and payable. Customer waives any and all claims against Twining, its subsidiaries, affiliates, servants and agents for termination of work on account of these terms.

In the event of any litigation arising from or related to any agreement to provide services whether verbal or written, the prevailing party shall be entitled to recover from the non-prevailing party all reasonable costs incurred, including staff time, court costs, attorney's fees and all other related expenses in such litigation. Additionally, in the event of a non-adjudicative settlement of litigation between the parties or a resolution of dispute by arbitration, that same process shall determine the prevailing party.

Specimen Disposal

Specimens will be discarded after testing unless Twining has been notified prior to testing that the customer wishes to retrieve the specimens or storage arrangements are made.

Oversize Specimens

An extra charge will be made when test specimens require more than one person to handle because of size or weight.

Elevated Work Plutform

In the event an elevated work platform is required to safely complete our inspections, the client must provide safe access, including a trained and certified operator, to Twining, Inc. inspection and testing personnel.



Title/Category	Direct Labor Rate	Overhead	Profit	Total Loaded Rate
JACOBS (at-Office)		114.22%		
Senior Project Executive	\$155.10	\$177.15	\$16.75	\$349.00
Principal-in-Charge	\$142.16	\$162.38	\$15.46	\$320.00
Project Executive	\$136.06	\$155.41	\$14.54	\$306.00
Contract Manager	\$132.21	\$151.01	\$13.78	\$297.00
Project Principal	\$113.37	\$129.49	\$24.15	\$267.00
SMS/Safety Manager VI	\$109.42	\$124.98	\$23.59	\$258.00
SMS/Safety Manager V	\$95.94	\$109,58	\$20.48	\$226.00
SMS/Safety Manager IV	\$84.88	\$96.95	\$18.17	\$200.00
SMS/Safety Manager III	\$74.57	\$85.17	\$16.26	\$176.00
Project Manager VI	\$119.38	\$136.35	\$25.27	\$281.00
Project Manager V	\$109.42	\$124.98	\$23.59	\$258.00
Project Manager IV	\$99.47	\$113.62	\$20.91	\$234.00
Project Manager III	\$87.21	\$99.61	\$19.18	\$206.00
Project Manager II	\$77.16	\$88.14	\$16.70	\$182.00
Project Manager I	\$67.79	\$77.43	\$14.78	\$160.00
Quality Manager VI	\$119,38	\$136.35	\$25.27	\$281.00
Quality Manager V	\$109.42	\$124.98	\$23.59	\$258.00
Quality Manager IV	\$95.94	\$109.58	\$20.48	\$226.00
Design Manager VI	\$109.42	\$124.98	\$23.59	\$258.00
Design Manager V	\$99.47	\$113.62	\$20.91	\$234.00
Design Manager IV	\$87.21	\$99.61	\$19.18	\$206.00
Airfield Engineer VI	\$104.66	\$119.55	\$22.79	\$247.00
Airfield Engineer V	\$90.41	\$103.26	\$19.33	\$213.00
Airfield Engineer IV	\$79.72	\$91.06	\$17.22	\$188.00
Airfield Engineer III	\$70.02	\$79.98	\$14.99	\$165.00
Airfield Engineer II	\$61.51	\$70.26	\$13.22	\$145.00
Airfield Engineer I	\$54.00	\$61.68	\$11.32	\$127.00
Airfield Designer VI	\$81.35	\$92.91	\$17.74	\$192.00
Airfield Designer V	\$70.02	\$79.98	\$14.99	\$165.00
Airfield Designer IV	\$61.51	\$70.26	\$13.22	\$145.00
Airfield Designer III	\$54.00	\$61.68	\$11.32	\$127.00
Airfield Designer II	\$47.36	\$54.09	\$10.55.	\$112.00
Airfield Designer I	\$41.59	\$47.50	\$8.91	\$98.00
Airfield Planner VI	\$104.66	\$119.55	\$22.79	\$247.00
Airfield Planner V	\$90.41	\$103.26	\$19.33	\$213.00
Airfield Planner IV	\$79.72	\$91.06	\$17.22	\$188.00
Airfield Planner III	\$70.02	\$79.98	\$14.99	\$165.00
Airfield Planner II	\$61.51	\$70.26	\$13.22	\$145.00
Airfield Planner I	\$54.00	\$61.68	\$11.32	\$127.00
Landscape Architect VI	\$92.60	\$105.76	\$19.64	\$218.00
Landscape Architect V	\$79.72	\$91.06	\$17.22	\$188.00
Landscape Architect IV	\$70.02	\$79.98	\$14.99	\$165.00
Landscape Architect III	\$61.51	\$70.26	\$13.22	\$145.00
Landscape Architect II	\$54.00	\$61.68	\$11.32	\$127.00
Landscape Architect I	\$47.36	\$54.09	\$10.55	\$112.00



Title/Category	Direct Labor Rate	Overhead	Profit	Total Loaded Rate
JACOBS (at-Office)		114.22%		
Architect VI	\$104.66	\$119.55	\$22.79	\$247.00
Architect V	\$90.41	\$103.26	\$19.33	\$213.00
Architect IV	\$79.72	\$91.06	\$17.22	\$188.00
Architect III	\$70.02	\$79.98	\$14.99	\$165.00
Architect II	\$61.51	\$70.26	\$13.22	\$145,00
Architect I	\$54.00	\$61.68	\$11.32	\$127.00
Structural Engineer VI	\$104.66	\$119.55	\$22.79	\$247.00
Structural Engineer V	\$90.41	\$103.26	\$19.33	\$213.00
Structural Engineer IV	\$79.72	\$91.06	\$17.22	\$188.00
Structural Engineer III	\$70.02	\$79.98	\$14.99	\$165.00
Structural Engineer II	\$61.51	\$70.26	\$13.22	\$145.00
Structural Engineer I	\$54.00	\$61.68	\$11.32	\$127.00
BHS Consultant	\$65.70	\$75.04	\$14.26	\$155.00
Electrical Engineer VI	\$104.66	\$119.55	\$22.79	\$247.00
Electrical Engineer V	\$90.41	\$103.26	\$19.33	\$213.00
Electrical Engineer IV	\$79.72	\$91.06	\$17.22	\$188.00
Electrical Engineer III	\$70.02	\$79.98	\$14.99	\$165.00
Electrical Engineer II	\$61.51	\$70.26	\$13.22	\$145.00
Electrical Engineer I	\$54.00	\$61.68	\$11.32	\$127.00
Mechanical Engineer VI	\$104.66	\$119.55	\$22.79	\$247.00
Mechanical Engineer V	\$90.41	\$103.26	\$19.33	\$213.00
Mechanical Engineer IV	\$79.72	\$91.06	\$17.22	\$188.00
Mechanical Engineer III	\$70.02	\$79.98	\$14.99	\$165.00
Mechanical Engineer II	\$61.51	\$70.26	\$13.22	\$145.00
Mechanical Engineer I	\$54.00	\$61.68	\$11.32	\$127.00
Construction Manager VI	\$109.42	\$124.98	\$23.59	\$258.00
Construction Manager V	\$99.47	\$113.62	\$20.91	\$234.00
Construction Manager IV	\$87.21	\$99.61	\$19.18	\$206.00
Construction Manager III	\$77.16	\$88.14	\$16.70	\$182.00
Construction Manager II	\$67.79	\$77.43	\$14.78	\$160.00
Construction Manager I	\$61.01	\$69.69	\$13.31	\$144.00
Deputy Construction Manager	\$74.57	\$85.17	\$16.26	\$176.00
Resident Engineer VI	\$92.60	\$105.76	\$19.64	\$218.00
Resident Engineer V	\$79.72	\$91.06	\$17.22	\$188.00
Resident Engineer IV	\$70.02	\$79.98	\$14.99	\$165.00
Resident Engineer III	\$61.51	\$70.26	\$13.22	\$145.00
Resident Engineer II	\$54.00	\$61.68	\$11.32	\$127.00
Resident Engineer I	\$47.36	\$54.09	\$10.55	\$112.00
Airfield Inspector VI	\$92.60	\$105.76	\$19.64	\$218.00
Airfield Inspector V	\$79.72	\$91.06	\$17.22	\$188.00
Airfield Inspector IV	\$70.02	\$79.98	\$14.99	\$165.00
Airfield Inspector III	\$61.51	\$70.26	\$13.22	\$145.00
Airfield Inspector II	\$54.00	\$61.68	\$11.32	\$127.00
Airfield Inspector I	\$47.36	\$54.09	\$10.55	\$112.00



Title/Category	Direct Labor Rate	Overhead	Profit	Total Loaded Rate
JACOBS (at-Office)		114.22%		
COMSEC Engineer VI	\$104.66	\$119.55	\$22.79	\$247.00
COMSEC Engineer V	\$90.41	\$103.26	\$19.33	\$213.00
COMSEC Engineer IV	\$79.72	\$91.06	\$17.22	\$188.00
COMSEC Engineer III	\$70.02	\$79.98	\$14.99	\$165.00
COMSEC Engineer II	\$61.51	\$70.26	\$13.22	\$145.00
COMSEC Engineer I	\$54.00	\$61.68	\$11.32	\$127,00
COMSEC Programer VI	\$104.66	\$119.55	\$22.79	\$247,00
COMSEC Programer V	\$90.41	\$103.26	\$19.33	\$213.00
COMSEC Programer IV	\$79.72	\$91.06	\$17.22	\$188.00
COMSEC Programer III	\$70.02	\$79.98	\$14.99	\$165.00
COMSEC Programer II	\$61.51	\$70.26	\$13.22	\$145.00
COMSEC Programer I	\$54.00	\$61.68	\$11.32	\$127.00
COMSEC Technician VI	\$71.44	\$81.60	\$14.96	\$168.00
COMSEC Technician V	\$61.51	\$70.26	\$13.22	\$145.00
COMSEC Technician IV	\$54.00	\$61.68	\$11.32	\$127.00
COMSEC Technician III	\$47.36	\$54.09	\$10.55	\$112.00
COMSEC Technician III	\$41.59	\$47.50	\$8.91	\$98.00
COMSEC Technician I	\$36.49	\$41.68	\$7.83	\$86.00
CADD Technician VI	\$87.21	\$99.61	\$19.18	\$206.00
CADD Technician V	\$77.16	\$88.14	\$16.70	\$182.00
CADD Technician IV	\$67.79	\$77.43	\$14.78	\$160.00
CADD Technician III	\$59.52	\$67.98	\$12.50	\$140.00
CADD Technician II	\$52.31	\$59.75	\$10.95	\$123.00
CADD Technician I	\$45.87	\$52.39	\$9.75	\$108.00
Project Coordinator VI	\$92.60	\$105.76	\$19.64	\$218.00
Project Coordinator VI	\$79.72	\$91.06	\$17.22	\$188.00
Project Coordinator IV	\$70.02	\$79.98	\$14.99	\$165.00
Project Coordinator III	\$57.97	\$66.21	\$12.82	\$137.00
Project Coordinator II	\$47.36	\$54.09	\$10.55	\$112.00
Project Coordinator I	\$39.16	\$44.73	\$8.11	\$92.00

Notes:

- 1. Above listed rates are effective January 1, 2019 through December 31, 2019.
- 2. Above listed rates are based on the At-Office overhead rate for Buildings and Infrastructure Americas Design for the Fiscal Year Ended September 29, 2017.
- 3. Buildings and Infrastructure Americas Design is a Business Unit of Jacobs Engineering Group Inc.
- 4. Direct Labor Rate is maximum compensation for that Labor Category.
- 5. Pay Grade Level I: 0-7 years experience
- 6. Pay Grade Level II: 5-15 years experience
- 7. Pay Grade Level III: 10-20 years experience
- 8. Pay Grade Level IV: 15+ years experience
- 9. Pay Grade Level V: 20+ years experience
- 10. Pay Grade Level VI: 25+ years experience
- 11. Other Direct Costs (ODC) will be billed at actual cost without markup



Title/Category	Direct Labor Rate	Overhead	Profit	Total Loaded Rate
JACOBS (at-Site)		92.35%		
Senior Project Executive	\$155.10	\$143.23	\$14.67	\$313.00
Principal-in-Charge	\$142.16	\$131.29	\$13.55	\$287.00
Project Executive	\$136.06	\$125.65	\$13.29	\$275.00
Contract Manager	\$132.21	\$122.10	\$12.69	\$267.00
Project Principal	\$113.37	\$104.69	\$21.94	\$240.00
SMS/Safety Manager VI	\$109.42	\$101.05	\$21.52	\$232.00
SMS/Safety Manager V	\$95.94	\$88.60	\$18.46	\$203.00
SMS/Safety Manager IV	\$84.88	\$78.39	\$16.73	\$180.00
SMS/Safety Manager III	\$74.57	\$68.86	\$14.57	\$158.00
Project Manager VI	\$119.38	\$110.24	\$23.38	\$253.00
Project Manager V	\$109.42	\$101.05	\$21.52	\$232.00
Project Manager IV	\$99.47	\$91.86	\$18.67	\$210.00
Project Manager III	\$87.21	\$80.54	\$17.25	\$185.00
Project Manager II	\$77.16	\$71.26	\$14.58	\$163.00
Project Manager I	\$67.79	\$62.60	\$12.61	\$143.00
Quality Manager VI	\$119.38	\$110.24	\$23.38	\$253.00
Quality Manager V	\$109.42 -	\$101.05	\$21.52	\$232.00
Quality Manager IV	\$95.94	\$88.60	\$18.46	\$203.00
Design Manager VI	\$109.42	\$101.05	\$21.52	\$232.00
Design Manager V	\$99.47	\$91.86	\$18.67	\$210.00
Design Manager IV	\$87.21	\$80.54	\$17.25	\$185.00
Airfield Engineer VI	\$104.66	\$96.66	\$19.68	\$221.00
Airfield Engineer V	\$90.41	\$83.49	\$17.10	\$191.00
Airfield Engineer IV	\$79.72	\$73.62	\$15.65	\$169.00
Airfield Engineer III	\$70.02	\$64.67	\$13.31	\$148.00
Airfield Engineer II	\$61.51	\$56.81	\$11.68	\$130.00
Airfield Engineer I	\$54.00 .	\$49.87	.\$10.13	\$114.00
Airfield Designer VI	\$81.35	\$75.12	\$15.53	\$172.00
Airfield Designer V	\$70.02	\$64.67	\$13.31	\$148.00
Airfield Designer IV	\$61.51	\$56.81	\$11.68	\$130.00
Airfield Designer III	\$54.00	\$49.87	\$10.13	\$114.00
Airfield Designer II	\$47.36	\$43.73	\$8.91	\$100.00
Airfield Designer I	\$41.59	\$38.41	\$8.01	\$88.00
Airfield Planner VI	\$104.66	\$96.66	\$19.68	\$221.00
Airfield Planner V	\$90.41	\$83.49	\$17.10	\$191.00
Airfield Planner IV	\$79.72	\$73.62	\$15.65	\$169.00
Airfield Planner III	\$70.02	\$64.67	\$13.31	\$148.00
Airfield Planner II	\$61.51	\$56.81	\$11.68	\$130.00
Airfield Planner I	\$54.00	\$49.87	\$10.13	\$114.00
Landscape Architect VI	\$92.60	\$85.51	\$17.89	\$196.00
Landscape Architect V	\$79.72	\$73.62	\$15.65	\$169.00
Landscape Architect IV	\$70.02	\$64.67	\$13.31	\$148.00
Landscape Architect III	\$61.51	\$56.81	\$11.68	\$130.00
Landscape Architect II	\$54.00	\$49.87	\$10.13	\$114.00
Landscape Architect I	\$47.36	\$43.73	\$8.91	\$100.00



Title/Category	Direct Labor Rate	Overhead	Profit	Total Loaded Rate	
JACOBS (at-Site)		92.35%			
Architect VI	\$104.66	\$96.66	\$19.68	\$221.00	
Architect V	\$90.41	\$83.49	\$17.10	\$191.00	
Architect IV	\$79.72	\$73.62	\$15.65	\$169.00	
Architect III	\$70.02	\$64.67	\$13.31	\$148.00	
Architect II	\$61.51	\$56.81	\$11.68	\$130.00	
Architect I	\$54.00	\$49.87	\$10.13	\$114.00	
Structural Engineer VI	\$104.66	\$96.66	\$19.68	\$221.00	
Structural Engineer V	\$90.41	\$83.49	\$17.10	\$191.00	
Structural Engineer IV	\$79.72	\$73.62	\$15.65	\$169.00	
Structural Engineer III	\$70.02	\$64.67	\$13.31	\$148.00	
Structural Engineer II	\$61.51	\$56.81	\$11.68	\$130.00	
Structural Engineer I	\$54.00	\$49.87	\$10.13	\$114.00	
BHS Consultant	\$65.70	\$60.67	\$12.63	\$139.00	
Electrical Engineer VI	\$104.66	\$96.66	\$19.68	\$221.00	
Electrical Engineer V	\$90.41	\$83.49	\$17.10	\$191.00	
Electrical Engineer IV	\$79.72	\$73.62	\$15.65	\$169.00	
Electrical Engineer III	\$70.02	\$64.67	\$13.31	\$148.00	
Electrical Engineer II	\$61,51	\$56.81	\$11.68	\$130.00	
Electrical Engineer I	\$54.00	\$49.87	\$10.13	\$114.00	
Mechanical Engineer VI	\$104.66	\$96.66	\$19.68	\$221.00	
Mechanical Engineer V	\$90.41	\$83.49	\$17.10	\$191.00	
Mechanical Engineer IV	\$79.72	\$73.62	\$15.65	\$169.00	
Mechanical Engineer III	\$70.02	\$64.67	\$13.31	\$148.00	
Mechanical Engineer II	\$61.51	\$56.81	\$11.68	\$130.00	
Mechanical Engineer I	\$54.00	\$49.87	\$10.13	\$114.00	
Construction Manager VI	\$109.42	\$101.05	\$21.52	\$232.00	
Construction Manager V	: \$99.47	\$91.86	\$18.67	\$210.00	
Construction Manager IV	\$87.21	\$80.54	\$17.25	\$185.00	
Construction Manager III	\$77.16	\$71.26	\$14.58	\$163.00	
Construction Manager II	\$67.79	\$62.60	\$12.61	\$143.00	
Construction Manager I	\$61.01	\$56.34	\$11.65	\$129.00	
Deputy Construction Manager	\$74.57	\$68.86	\$14.57	\$158.00	
Resident Engineer VI	\$92.60	\$85.51	\$17.89	\$196.00	
Resident Engineer V	\$79.72	\$73.62	\$15.65	\$169.00	
Resident Engineer IV	\$70.02	\$64.67	\$13.31	\$148.00	
Resident Engineer III	\$61.51	\$56.81	\$11.68	\$130.00	
Resident Engineer II	\$54.00	\$49.87	\$10.13	\$114.00	
Resident Engineer I	\$47.36	\$43.73	\$8.91	\$100.00	
Airfield Inspector VI	\$92.60	\$85.51	\$17.89	\$196.00	
Airfield Inspector V	\$79.72	\$73.62	\$15.65	\$169.00	
Airfield Inspector IV	\$70.02	\$64.67	\$13.31	\$148.00	
Airfield Inspector III	\$61.51	\$56.81	\$11.68	\$130.00	
Airfield Inspector II	\$54.00	\$49.87	\$10.13	\$114.00	
Airfield Inspector I	\$47.36	\$43.73	\$8.91	\$100.00	



Fitle/Category	Direct Labor Rate	Overhead	Profit	Total Loaded Rate
JACOBS (at-Site)		92.35%		
COMSEC Engineer VI	\$104.66	\$96.66	\$19.68	\$221.00
COMSEC Engineer V	\$90.41	\$83.49	\$17.10	\$191.00
COMSEC Engineer IV	\$79.72	\$73.62	\$15.65	\$169.00
COMSEC Engineer III	\$70.02	\$64.67	\$13.31	\$148.00
COMSEC Engineer II	\$61.51	\$56.81	\$11.68	\$130.00
COMSEC Engineer I	\$54.00	\$49.87	\$10.13	\$114.00
COMSEC Programer VI	\$104.66	\$96.66	\$19.68	\$221.00
COMSEC Programer V	\$90,41	\$83.49	\$17.10	\$191.00
COMSEC Programer IV	\$79.72	\$73.62	\$15.65	\$169.00
COMSEC Programer III	\$70.02	\$64.67	\$13.31	\$148.00
COMSEC Programer II	\$61.51	\$56.81	\$11.68	\$130.00
COMSEC Programer I	\$54.00	\$49.87	\$10.13	\$114.00
COMSEC Technician VI	\$71.44	\$65.98	\$13.58	\$151.00
COMSEC Technician V	\$61.51	\$56.81	\$11.68	\$130.00
COMSEC Technician IV	\$54.00	\$49.87	\$10.13	\$114.00
COMSEC Technician III	\$47.36	\$43.73	\$8.91	\$100.00
COMSEC Technician III	\$41.59	\$38.41	\$8.01	\$88.00
COMSEC Technician I	\$36.49	\$33.70	\$6.81	\$77.00
CADD Technician VI	\$87.21	\$80.54	\$17.25	\$185.00
CADD Technician V	\$77.16	\$71.26	\$14.58	\$163.00
CADD Technician IV	\$67.79	\$62.60	\$12.61	\$143.00
CADD Technician III	\$59.52	\$54.97	\$11.51	\$126.00
CADD Technician II	\$52.31	\$48.31	\$10.39	\$111.00
CADD Technician I	\$45.87	\$42.36	\$8.78	\$97.00
Project Coordinator VI	\$92.60	\$85.51	\$17.89	\$196.00
Project Coordinator VI	\$79.72	\$73.62	\$15.65	\$169.00
Project Coordinator IV	\$70.02 ·	\$64.67	\$13.31	\$148.00
Project Coordinator III	\$57.97	\$53.53	\$11.50	\$123.00
Project Coordinator II	\$47.36	\$43.73	\$8.91	\$100.00
Project Coordinator I	\$39.16	\$36.16	\$7.68	\$83.00

Notes:

- 1. Above listed rates are effective January 1, 2019 through December 31, 2019.
- 2. Above listed rates are based on the At-Office overhead rate for Buildings and Infrastructure Americas Design for the Fiscal Year Ended September 29, 2017.
- 3. Buildings and Infrastructure Americas Design is a Business Unit of Jacobs Engineering Group Inc.
- 4. Direct Labor Rate is maximum compensation for that Labor Category.
- 5. Pay Grade Level I: 0-7 years experience
- 6. Pay Grade Level II: 5-15 years experience
- 7. Pay Grade Level III: 10-20 years experience
- 8. Pay Grade Level IV: 15+ years experience
- 9. Pay Grade Level V: 20+ years experience
- 10. Pay Grade Level VI: 25+ years experience
- 11. Other Direct Costs (ODC) will be billed at actual cost without markup

Title/Category		Direct Labor Rate	Overhead	Profit	Total Loaded Rate
LEXAX			126.28%		
LEXAX Construction Services, Inc.	Patricia Benny	\$40.00	\$50.51	\$9.05	\$99.56
B. Additional Services					
Any additional services required in a and the following hourly rates will ap		A & B will	be treated as	additiona	ıl services
LEXAX - Additional Services			Office Rate		Home Rate
Sr. Document Control			\$110.50		\$113.53
Document Control			\$85.94		
Lead Estimator					\$88.30
Sr. Estimator					\$227.07
Sr. Estimator Sr. Estimator (MEP)					\$88.30 \$227.07 \$171.56 \$176.61

LENAX (T & M) Fee Breakdown based on 40 hours per week for 10 months for Document Control Support Services from field office.

Information retrieved from proposal dated July 1, 2019.



Title/Category	Direct Labor Rate	Overhead	Profit	Total Loaded Rate
ESA Associates		193.82%		
Senior Director III	\$78.13	\$151.42	\$70.45	\$300.00
Senior Director II	\$72.92	\$141.33	\$65.76	\$280.00
Senior Director I	\$69.01	\$133.76	\$62.23	\$265,00
Director III	\$62.50	\$121.14	\$56.36	\$240.00
Director II	\$58,59	\$113.57	\$52.84	\$225.00
Director I	\$54.69	\$106.00	\$49,32	\$210.00
Managing Associate III	\$53,39	\$103.47	\$48.14	\$205.00
Managing Associate II	\$49.48	\$95.90	\$44.62	\$190.00
Managing Associate I	\$45.57	-\$88.33	\$41.10	\$175.00
Senior Associate III	\$44.27	\$85.81	\$39,92	\$170.00
Senior Associate II	\$41.67	\$80.76	\$37,58	\$160.00
Senior Associate I	\$39.06	\$75.71	\$35.23	\$150.00
Associate III	\$35.16	\$68.14	\$31.70	\$135.00
Associate II	\$32.55	\$63.09	\$29.36	\$125.00
Associate I	\$27.34	\$53.00	\$24.66	\$105.00
Project Technician I	\$31,25	\$60.57	\$28,18	\$120.00
Project Technician I	\$26.04	\$50.47	\$23.48	\$100.00
Project Technician I	\$22,14	\$42.90	\$19.96	\$85.00

Notes .

- 1. Above listed rates have been provided by ESA Associates.
- 2. Above listed rates are effective June 1, 2019 through December 31, 2019.
- 3. ESA is using our standard billing rates and with the staffing for this effort the average multiplier for the Project is 3.84.
- 4. Other Direct Costs (ODC) will be billed for computer and all accessories.

Standard Hourly Rate Sheet

ARB TEMECULA, CA 949.280.9743 WWW.ARBELECTRIC.COM Electrical Inc.

•					Lie.	げんしいけんせい ガオ	. L.
	F	inancial					
	S	tatement				Accepted	
Description	A	Amount	A)	RB Adj.	Ref.	Amount	%
Direct Labor Rate							
Civil Engineer	\$	105					
Electrical Engineer	\$	105					
Drafting	\$	35					
Administration	\$	30					
Direct Labor Total		\$33,275	9.		_	\$33,275	100.00%
Indirect Costs:	-		•		-		
General Overhead		**					-
Indirect Labor		\$2,000	•	\$0	Α	\$2,000	6.01%
Bid & Proposal Labor	•	2,400				\$2,400	7.21%
Advertising Labor	-,-	1,000		(2,500)	I	(\$1,500)	-4.51%
Rent		4,675		0	В	\$4,675	14.05%
Maintenance & Repairs	,	750	21	(750)	Q	\$0	0.00%
Travel		850	-	(50)	C,D	\$800	2.40%
Insurance		1,800		0	E,Q	\$1,800	5.41%
Telephone		2,311	÷.			\$2,311	6.95%
Taxes & Licenses		2,225	• -	0	F	\$2,225	6.69%
Depreciation & Amortization	, :	250	Ţ	0	G,Q	\$250	0.75%
Employee Train/Recruit/Moving	••	650		0	J	650	1.95%
Professional Fees		8,000		0	K	\$8,000	24.04%
Computer	:	151			-	\$151	0.45%
Supplies & Miscellaneous		663		(63)	M	\$600	1.80%
Total General Overhead	•	\$27,725		(\$3,363)	-	\$24,362	73.21%
Indirect Cost Rate - Office		83.32%		73.21%	· -	73.21%	
Indirect Cost Rate - Field	• :	83.32%		73.21%		73.21%	
Company Profit per Classification pe	r Hou	r					•
		ct Labor Rate	Perce	entage Profit	Profit as a Do	llar Value per Hour	
Civil Engineer	\$	105		5%	\$5	-	
Electrical Engineer	\$	105		5%	\$5		
Drafting	\$. 35		5%	\$2	•	
Administration	\$	30		5%	\$2		
Loaded Rates per Classification per I	Hour				•		
	Dire	ct Labor Rate	Perce	entage Profit I	ndirect Cost Rate	Loaded Rate	
Civil Engineer	\$	105		5%	73.21%	\$187	
Electrical Engineer	\$	105		5%	73.21%	\$187	
Drafting	\$	35		5%	73.21%	\$62	
Administration	\$	30		5%	73.21%	\$53	

Standard Hourly Rate Sheet



References

ARB Electrial Inc. Indirect Cost Rate Internally Audited

- A Excess executive compensation unallowable per 48 CFR 31.205-6(p)
- B Unallowable costs of idle capacity per 48 CFR 31.205-17(c)
- C Lodging, meal, and mileage rates in excess of federal travel regulation unallowable per 48 CFR 31.205-46(a)(2).
- D Inadequate supporting documentation unallowable per 48 CFR 31.201-2(d).
- E Key person life insurance unallowable per 48 CFR 31.205-19(e)(2)(v).
- F Unallowable taxes and licenses per 48 CFR 31.205-41.
- G Amortization of goodwill unallowable per 48 CFR 31.205-49.
- H Costs of memberships in civic and community organization unallowable per 48 CFR 31.205-1(f)(7).
- I Public relations and advertising unallowable per 48 CFR 31.205-1.
- J Entertainment unallowable per 48 CFR 31.205-14.
- K Legal Costs in relation to litigation unallowable per 48 CFR 31.205-47(f)(5).
- L Interest unallowable per 48 CFR 31.205-20.
- M Contributions unallowable per 48 CFR 31.205-81.
- N Promotional Marketing unallowable per 48 CFR 31.205-1 and 31.205-38.
- O Unsupported direct selling costs, no documentation available to demonstrate and support "person to person" selling unallowable per 48 CFR 31.205-38(b)(5).
- P Directly associated cost to unallowable advertising, public relations and direct selling labor unallowable per 48 CFR 31.201-6(a).
- Q Auto Allowance payments of \$12,000 unallowable per 48 CFR 31.205-6(m)(2) and 31.201-2(d), documentation of mileage log not available and unable to support and show segregation of business and personal use. Associated costs for vehicle unallowable per 48 CFR 31.205-46(d) and 31.205-6(m)(2). Associated costs include Insurance (\$1,556), Maintenance (\$997), and Depreciation (\$664).
- R Bonus payments unsupported and not performance based unallowable per 48 CFR 31.205-6 and 2010 AASHTO Audit Guide, Chapter 7, Section 7.12 C
- S Labor Variance Account to show the uncompensated overtime labor adjustment. Labor Variance account is an offset account to balance to payroll.
- T Severance payment does not follow company's established severance policy, unallowable per 48 CFR 31.205-6(g).

EXHIBIT 10-H4 COST PROPOSAL FOR CONTRACTS WITH PREVAILING WAGES

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	Direct			Total
Title/Category	Labor	Overhead	Profit	Loaded
	Rate			Rate
Ricondo		208.20%		
Officer	\$101.14	\$210.58	\$42.28	\$354.00
Director	\$86.86	\$180.84	\$36.31	\$304.00
Managing Consultant	\$72.29	\$150.50	\$30.22	\$253.00
Senior Consultant	\$59.71	\$124.33	\$24.96	\$209.00
Consultant	\$47.71	\$99.34	\$19.94	\$167.00
Technical Specialist	\$38.57	\$80.31	\$16.12	\$135.00

Ricondo & Associates, Inc.

Multiplier Calculations based on 2017 Audited Overhead Rate (released May 21, 2018)

Direct Labor	1 '	(a)
Home Office Overhead Rate (OH)	2.082	(b)
Direct Labor + OH	3.082	(c) = (a) + (b)
Profit @ 15%	0.462	(d) = (c) x Profit %
Multiplier	3.544	(e) = (c)+(d)



Fitle/Category	Direct Labor Rate	Overhead	Profit	10/1/2018-09/30/2019 Total Loaded Rate**
Kielnfolder		169.67%		
Principal	\$87.46	\$148.39	\$25.94	261.79
Project Manager	\$62.59	\$106.20	\$18.57	187.36
Project Professional	\$59.85	\$101.55	\$17.75	179.15
Staff Professional	\$42.22	\$71.63	\$12.52	126.37
Senior CADD Designer	\$33.22	\$56.36	\$9.85	99.43
Project Administrator	\$38.86	\$65.93	\$11.53	116.32
Admin/Clerical	\$29.88	\$50.70	\$8.86	89.44
Materials Tester (Non-PW)	\$28.53	\$48.41	\$8.46	85.40
Senior Inspector (Non-PW)	\$36.97	\$62.73	\$10.97	110.67
Prevailing Wage Group 1, Materials Tester*	\$63.54	\$107.81	\$18.85	190.20
Prevailing Wage Group 2, Inspector*	\$65.13	\$110.51	\$19.32	194.96
Prevailing Wage Group 3, NDT*	\$64.50	\$109.44	\$19.13	193.07

Notes:

- 1. *Prevailing Wage Determination SC-23-63-2-2017-1D for Groups 1, 2 and 3
- 2. **3% escalation will be effective October 1st of each year commencing on 10/1/2019
- 3. Hours worked 8-12 & Saturday will billed at time and one-half, and hours greater than 12.
- 4. Sundays & Holidays will be billed at double time.
- 5. Sample Pickup/Canceled Work will be billed at 2.0 hour minimums.
- 6. Mileage will be billed at IRS rates. Field Vehicles will be billed at \$44.55 per day.
- 7. All Other Direct Costs and Reimbursables will be billed at actual cost.
- 8. See attached Geotechnical and Materials Testing Services Fee Schedule.

Long Beach Airport Time Material / Lump Sum 2020 Specific Rates of Compensation



Title/Category	Direct Labor Rate	Overhead	Profit	Total Loaded Rate
JACOBS (at-Office)		105.80%		
Senior Project Executive	\$155.10	\$164.09	\$15.81	\$335.00
Principal-in-Charge	\$142.16	\$150.41	\$14.43	\$307.00
Project Executive	\$136.06	\$143.95	\$13.99	\$294.00
Contract Manager	\$132.21	\$139.88	\$13.91	\$286.00
Project Principal	\$113.37	\$119.94	\$23.69	\$257.00
SMS/Safety Manager VI	\$109.42	\$115.77	\$22.81	\$248.00
SMS/Safety Manager V	\$95.94	\$101.50	\$19.56	\$217.00
SMS/Safety Manager IV	\$84.88	\$89.80	\$17.32	\$192.00
SMS/Safety Manager III	\$74.57	\$78.89	\$15.54	\$169.00
Project Manager VI	\$119.38	\$126.30	\$24.33	\$270.00
Project Manager V	\$109.42	\$115.77	\$22.81	\$248.00
Project Manager IV	\$99.47	\$105.24	\$20.29	\$225.00
Project Manager III	\$87.21	\$92.27	\$17.52	\$197.00
Project Manager II	\$77.16	\$81.64	\$16.20	\$175.00
Project Manager I	\$67.79	\$71.72	\$13.49	\$153.00
Quality Manager VI	\$119.38	\$126.30	\$24.33	\$270.00
Quality Manager V	\$109.42	\$115.77	\$22.81	\$248.00
Quality Manager IV	\$95.94	\$101.50	\$19.56	\$217.00
Design Manager VI	\$109.42	\$115.77	\$22.81	\$248.00
Design Manager V	\$99.47	\$105.24	\$20.29	\$225.00
Design Manager IV	\$87.21	\$92.27	\$17.52	\$197.00
Airfield Engineer VI	\$104.66	\$110.73	\$21.60	\$237.00
Airfield Engineer V	\$90.41	\$95.65	\$18.94	\$205.00
Airfield Engineer IV	\$79.72	\$84.35	\$15.93	\$180.00
Airfield Engineer III	\$70.02	\$74.09	\$14.89	\$159.00
Airfield Engineer II	\$61.51	\$65.08	\$12.40	\$139.00
Airfield Engineer I	\$54.00	\$57.13	\$10.86	\$122.00
Airfield Designer VI	\$81.35	\$86.06	\$16.59	\$184.00
Airfield Designer V	\$70.02	\$74.09	\$14.89	\$159.00
Airfield Designer IV	\$61.51	\$65.08	\$12.40	. \$139.00
Airfield Designer III	\$54.00	\$57.13	\$10.86	\$122.00
Airfield Designer II	\$47.36	\$50.10	\$9.54	\$107.00
Airfield Designer I	\$41.59	\$44.00	\$8.41	\$94.00
Airfield Planner VI	\$104.66	\$110.73	\$21.60	\$237.00
Airfield Planner V	\$90.41	\$95.65	\$18.94	\$205.00
Airfield Planner IV	\$79.72	\$84.35	\$15.93	\$180.00
Airfield Planner III	\$70.02	\$74.09	\$14.89	\$159.00
Airfield Planner II	\$61.51	\$65.08	\$12.40	\$139.00
Airfield Planner I	\$54.00	\$57.13	\$10.86	\$122.00
Landscape Architect VI	\$92.60	\$97.97	\$19.44	\$210.00
Landscape Architect V	\$79.72	\$84.35	\$15.93	\$180.00
Landscape Architect IV	\$70.02	\$74.09	\$14.89	\$159.00
Landscape Architect III	\$61.51	\$65.08	\$12.40	\$139.00
Landscape Architect II	\$54.00	<u>\$57.13</u>	\$10.86	\$122.00
Landscape Architect I	\$47.36	\$50.10	\$9.54	\$107.00

Long Beach Airport Time Material / Lump Sum 2020 Specific Rates of Compensation



Title/Category	Direct Labor Rate	Overhead	Profit	Total Loaded Rate
JACOBS (at-Office)		105,80%		
Architect VI	\$104.66	\$110.73	\$21.60	\$237.00
Architect V	\$90.41	\$95.65	\$18.94	\$205.00
Architect IV	\$79.72	\$84.35	\$15.93	\$180.00
Architect III	\$70.02	\$74.09	\$14.89	\$159.00
Architect II	\$61.51	\$65.08	\$12.40	\$139.00
Architect I	\$54.00	\$57.13	\$10.86	\$122.00
Structural Engineer VI	\$104.66	\$110.73	\$21.60	\$237.00
Structural Engineer V	\$90.41	\$95.65	\$18.94	\$205.00
Structural Engineer IV	\$79.72	\$84.35	\$15.93	\$180.00
Structural Engineer III	\$70.02	\$74.09	\$14.89	\$159.00
Structural Engineer II	\$61.51	\$65.08	\$12.40	\$139.00
Structural Engineer I	\$54.00	\$57.13	\$10.86	\$122.00
BHS Consultant	\$65.70	\$69.51	\$13.79	\$149.00
Electrical Engineer VI	\$104.66	\$110.73	\$21.60	\$237.00
Electrical Engineer V	\$90.41	\$95.65	\$18.94	\$205.00
Electrical Engineer IV	\$79.72	\$84.35	\$15.93	\$180.00
Electrical Engineer III	\$70.02	\$74.09	\$14.89	\$159.00
Electrical Engineer II	\$61.51	\$65.08	\$12.40	\$139.00
Electrical Engineer I	\$54.00	\$57.13	\$10.86	\$122.00
Mechanical Engineer VI	\$104.66	\$110.73	\$21.60	\$237.00
Mechanical Engineer V	\$90.41	\$95.65	\$18.94	\$205.00
Mechanical Engineer IV	\$79.72	\$84.35	\$15.93	\$180.00
Mechanical Engineer III	\$70.02	\$74.09	\$14.89	\$159.00
Mechanical Engineer	\$61.51	\$65.08	\$12.40	\$139.00
Mechanical Engineer I	\$54.00	\$57.13	\$10.86	\$122.00
Construction Manager VI	\$109.42	\$115.77	\$22.81	\$248.00
Construction Manager V	\$99.47	\$105.24	\$20.29	\$225.00
Construction Manager IV	\$87.21	\$92.27	\$17.52	\$197.00
Construction Manager III	\$77.16	\$81.64	\$16.20	\$175.00
Construction Manager II	\$67.79	\$71.72	\$13.49	\$153.00
Construction Manager I	\$61.01	\$64.55	\$12.44	\$138.00
Deputy Construction Manager	\$74.57	\$78.89	\$15.54	\$169.00
Resident Engineer VI	\$92.60	\$97.97	\$19.44	\$210.00
Resident Engineer V	\$79.72	\$84.35	\$15.93	\$180.00
Resident Engineer IV	\$70.02	\$74.09	\$14.89	\$159.00
Resident Engineer III	\$61.51	\$65.08	\$12.40	\$139.00
Resident Engineer II	\$54.00	\$57.13	\$10.86	\$122.00
Resident Engineer I	\$47.36	\$50.10	\$9.54	\$107.00
Airfield Inspector VI	\$92.60	\$97.97	\$19.44	\$210.00
Airfield Inspector V	\$79.72	\$84.35	\$15.93	\$180.00
Airfield Inspector IV	\$70.02	\$74.09	\$14.89	\$159.00
Airfield Inspector III	\$61.51	\$65.08	\$12.40	\$139.00
Airfield Inspector II	\$54.00	\$57.13	\$10.86	\$122.00
Airfield Inspector I	\$47.36	\$50.10	\$9.54	\$107.00

Long Beach Airport Time Material / Lump Sum 2020 Specific Rates of Compensation



Title/Category	Direct Labor Rate	Overhead	Profit	Total Loaded Rate
JACOBS (at-Office)		105.80%		
COMSEC Engineer VI	\$104.66	\$110.73	\$21.60	\$237.00
COMSEC Engineer V	\$90.41	\$95.65	\$18.94	\$205.00
COMSEC Engineer IV	\$79.72	\$84.35	\$15.93	\$180.00
COMSEC Engineer III	\$70.02	\$74.09	\$14.89	\$159.00
COMSEC Engineer II	\$61.51	\$65.08	\$12.40	\$139.00
COMSEC Engineer I	\$54.00	\$57.13	\$10.86	\$122.00
COMSEC Programer VI	\$104.66	\$110.73	\$21.60	\$237.00
COMSEC Programer V	\$90.41	\$95.65	\$18.94	\$205.00
COMSEC Programer IV	\$79.72	\$84.35	\$15.93	\$180.00
COMSEC Programer III	\$70.02	\$74.09	\$14.89	\$159.00
COMSEC Programer II	\$61.51	\$65.08	\$12.40	\$139.00
COMSEC Programer I	\$54.00	\$57.13	\$10.86	\$122.00
COMSEC Technician VI	\$71.44	\$75.59	\$14.97	\$162.00
COMSEC Technician V	\$61.51	\$65.08	\$12.40	\$139.00
COMSEC Technician IV	\$54.00	\$57.13	\$10.86	\$122.00
COMSEC Technician III	\$47.36	\$50.10	\$9.54	\$107.00
COMSEC Technician III	\$41.59	\$44.00	\$8.41	\$94.00
COMSEC Technician I	\$36.49	\$38.61	\$7.90	\$83.00
CADD Technician VI	\$87.21	\$92.27	\$17.52	\$197.00
CADD Technician V	\$77.16	\$81.64	\$16.20	\$175.00
CADD Technician IV	\$67.79	\$71.72	\$13.49	\$153.00
CADD Technician III	\$59.52	\$62.97	\$12.51	\$135.00
CADD Technician II	\$52.31	\$55.34	\$10.35	\$118.00
CADD Technician I	\$45.87	\$48.53	\$9.61	\$104.00
Project Coordinator VI	\$92.60	\$97.97	\$19.44	\$210.00
Project Coordinator VI	\$79.72	\$84.35	\$15.93	\$180.00
Project Coordinator IV	\$70.02	\$74.09	\$14.89	\$159.00
Project Coordinator III	\$57.97	\$61.33	\$11.70	\$131.00
Project Coordinator II	\$47.36	\$50.10	\$9.54	\$107.00
Project Coordinator I	\$39.16	\$41.43	\$8.41	\$89.00

Notes:

- 1. Above listed rates are effective January 1, 2020 through December 31, 2020.
- 2. Above listed rates are based on the At-Office overhead rate for Buildings and Infrastructure Americas Design for the Fiscal Year Ended September 29, 2018.
- 3. Buildings and Infrastructure Americas Design is a Business Unit of Jacobs Engineering Group Inc.
- 4. Direct Labor Rate is maximum compensation for that Labor Category.
- 5. Pay Grade Level I: 0-7 years experience
- 6. Pay Grade Level II: 5-15 years experience
- 7. Pay Grade Level III: 10-20 years experience
- 8. Pay Grade Level IV: 15+ years experience
- 9. Pay Grade Level V: 20+ years experience
- 10. Pay Grade Level VI: 25+ years experience
- 11. Other Direct Costs (ODC) will be billed at actual cost without markup
- 12. Contracting method will be agreed upon by Consultant and LGB prior to approval of proposal and execution of work.

Long Beach Airport Time Materials / Lump Sum 2020 Specific Rates of Compensation



Title/Category	Direct Labor Rate	Overhead	Profit	Total Loaded Rate
JACOBS (at-Site)		80.83%		
Senior Project Executive	\$155.10	\$125.36	\$13.54	\$294.00
Principal-in-Charge	\$142.16	¹ \$114.91	\$12.93	\$270.00
Project Executive	\$136.06	\$109.98	\$11.97	\$258.00
Contract Manager	\$132,21	\$106.87	\$11.92	\$251.00
Project Principal	\$113.37	\$91.63	\$20.00	\$225.00
SMS/Safety Manager VI	\$109.42	\$88.45	\$20.13	\$218.00
SMS/Safety Manager V	\$95.94	\$77.55	\$17.52	\$191.00
SMS/Safety Manager IV	\$84.88	\$68.61	\$15.51	\$169.00
SMS/Safety Manager III	\$74.57	\$60.27	\$13.16	\$148.00
Project Manager VI	\$119.38	\$96.49	\$21.13	\$237.00
Project Manager V	\$109.42	\$88.45	\$20.13	\$218.00
Project Manager IV	\$99.47	\$80.40	\$18.13	\$198.00
Project Manager III	\$87.21	\$70.49	\$15.30	\$173.00
Project Manager II	\$77.16	\$62.37	\$13.47	\$153.00
Project Manager I	\$67.79	\$54.79	\$12,42	\$135.00
Quality Manager VI	\$119.38	\$96.49	\$21.13	\$237.00
Quality Manager V	\$109.42	\$88.45	\$20.13	\$218.00
Quality Manager IV	\$95.94	\$77.55	\$17.52	\$191.00
Design Manager VI	\$109.42	\$88.45	\$20.13	\$218.00
Design Manager V	\$99.47	\$80.40	\$18.13	\$198.00
Design Manager IV	\$87.21	\$70.49	\$15.30	\$173.00
Airfield Engineer VI	\$104.66	\$84.60	\$18.74	\$208.00
Airfield Engineer V	\$90.41	\$73.08	\$16.51	\$180.00
Airfield Engineer IV	\$79.72	\$64.44	\$14.84	\$159.00
Airfield Engineer III	\$70.02	\$56.60	\$12.38	\$139.00
Airfield Engineer II	\$61.51	\$49.72	\$10.76	\$122.00
Airfield Engineer I	\$54.00	\$43.65	\$9.35	\$107.00
Airfield Designer VI	\$81.35	\$65.75	\$14.90	\$162.00
Airfield Designer V	\$70.02	\$56.60	\$12.38	\$139.00
Airfield Designer IV	\$61.51	\$49.72	\$10.76	\$122.00
Airfield Designer III	\$54.00	\$43.65	\$9.35	\$107.00
Airfield Designer II	\$47.36	\$38.28	\$8.37	\$94.00
Airfield Designer I	\$41.59	\$33.61	\$7.80	\$83.00
Airfield Planner VI	\$104.66	\$84.60	\$18.74	\$208.00
Airfield Planner V	\$90.41	\$73.08	\$16.51	\$180.00
Airfield Planner IV	\$79.72	\$64.44	\$14.84	\$159.00
Airfield Planner III	\$70.02	\$56.60	\$12.38	\$139.00
Airfield Planner II	\$61.51	\$49.72	\$10.76	\$122.00
Airfield Planner I	\$54.00	\$43.65	\$9.35	\$107.00
Landscape Architect VI	\$92.60	\$74.85	\$16.56	\$184.00
Landscape Architect V	\$79.72	\$64.44	\$14.84	\$159.00
Landscape Architect IV	\$70.02	\$56.60	\$12.38	\$139.00
Landscape Architect III	\$61.51	\$49.72	\$10.76	\$122.00
Landscape Architect II	\$54.00	\$43.65	\$9.35	\$107.00
Landscape Architect	\$47.36	\$38.28	\$8.37	\$94.00

Long Beach Airport Time Materials / Lump Sum 2020 Specific Rates of Compensation



Title/Category	Direct Labor Rate	Overhead	Profit	Total Loaded Rate	
JACOBS (at-Site)		80.83%			
Architect VI	\$104.66	\$84.60	\$18.74	\$208.00	
Architect V	\$90.41	\$73.08	\$16.51	\$180.00	
Architect IV	\$79.72	\$64.44	\$14.84	\$159.00	
Architect III	\$70.02	\$56.60	\$12.38	\$139.00	
Architect II	\$61.51	\$49.72	\$10.76	\$122.00	
Architect I	\$54.00	\$43.65	\$9.35	\$107.00	
Structural Engineer VI	\$104.66	\$84.60	\$18.74	\$208.00	
Structural Engineer V	\$90.41	\$73.08	\$16.51	\$180.00	
Structural Engineer IV	\$79.72	\$64.44	\$14.84	\$159.00	
Structural Engineer III	\$70.02	\$56.60	\$12.38	\$139.00	
Structural Engineer II	\$61.51	\$49.72	\$10.76	\$122.00	
Structural Engineer I	\$54.00	\$43.65	\$9.35	\$107.00	
BHS Consultant	\$65.70	\$53.11	\$12.19	\$131.00	
Electrical Engineer VI	\$104.66	\$84.60	\$18.74	\$208.00	
Electrical Engineer V	\$90.41	\$73.08	\$16.51	\$180.00	
Electrical Engineer IV	\$79.72	\$64.44	\$14.84	\$159.00	
Electrical Engineer III	\$70.02	\$56.60	\$12.38	\$139.00	
Electrical Engineer II	\$61.51	\$49.72	\$10.76	\$122.00	
Electrical Engineer I	\$54.00	\$43.65	\$9.35	\$107.00	
Mechanical Engineer VI	\$104.66	\$84.60	\$18.74	\$208.00	
Mechanical Engineer V	\$90.41	\$73.08	\$16.51	\$180.00	
Mechanical Engineer IV	\$79.72	\$64.44	\$14.84	\$159.00	
Mechanical Engineer III	\$70.02	\$56.60	\$12.38	\$139.00	
Mechanical Engineer II	\$61.51	\$49.72	\$10.76	\$122.00	
Mechanical Engineer I	\$54.00	\$43.65	\$9.35	\$107.00	
Construction Manager VI	\$109.42	\$88.45	\$20.13	\$218.00	
Construction Manager V	\$99.47	\$80.40	\$18.13	\$198.00	
Construction Manager IV	\$87.21	\$70.49	\$15.30	\$173.00	
Construction Manager III	\$77.16	\$62.37	\$13.47	\$153.00	
Construction Manager II	\$67.79	\$54.79	\$12.42	\$135.00	
Construction Manager I	\$61.01	\$49.31	\$10.68	\$121.00	
Deputy Construction Manager	\$74.57	\$60.27	\$13.16	\$148.00	
Resident Engineer VI	\$92.60	\$74.85	\$16.56	\$184.00	
Resident Engineer V	\$79.72	\$64.44	\$14.84	\$159.00	
Resident Engineer IV	\$70.02	\$56.60	\$12.38	\$139.00	
Resident Engineer III	\$61.51	\$49.72	\$10.76	\$122.00	
Resident Engineer II	\$54.00	\$43.65	\$9.35	\$107.00	
Resident Engineer I	\$47.36	\$38.28	\$8.37	\$94.00	
Airfield Inspector VI	\$92.60	\$74.85	\$16.56	\$184.00	
Airfield Inspector V	\$79.72	\$64.44	\$14.84	\$159.00	
Airfield Inspector IV	\$70.02	\$56.60	\$12.38	\$139.00	
Airfield Inspector III	\$61.51	\$49.72	\$10.76	\$122.00	
Airfield Inspector II	\$54.00	\$43.65	\$9.35	\$107.00	
Airfield Inspector I	\$47.36	\$38.28	\$8.37	\$94.00	

Long Beach Airport Time Materials / Lump Sum 2020 Specific Rates of Compensation



Title/Category	Direct Labor Rate	Overhead	Profit	Total Loaded Rate
JACOBS (at-Site)		80.83%		
COMSEC Engineer VI	\$104.66	\$84.60	\$18.74	\$208.00
COMSEC Engineer V	\$90.41	\$73.08	\$16.51	\$180.00
COMSEC Engineer IV	\$79.72	\$64.44	\$14.84	\$159.00
COMSEC Engineer III	\$70.02	\$56.60	\$12.38	\$139.00
COMSEC Engineer II	\$61.51	\$49.72	\$10.76	\$122.00
COMSEC Engineer I	\$54.00	\$43.65	\$9.35	\$107.00
COMSEC Programer VI	\$104.66	\$84.60	\$18.74	\$208.00
COMSEC Programer V	\$90.41	\$73.08	\$16.51	\$180.00
COMSEC Programer IV	\$79.72	\$64.44	\$14.84	\$159.00
COMSEC Programer III	\$70.02	\$56.60	\$12.38	\$139.00
COMSEC Programer II	\$61.51	\$49.72	\$10.76	\$122.00
COMSEC Programer I	\$54.00	\$43.65	\$9.35	\$107.00
COMSEC Technician VI	\$71.44	\$57.75	\$12.81	\$142.00
COMȘEC Technician V	\$61.51	\$49.72	\$10.76	\$122.00
COMSEC Technician IV	\$54.00	\$43.65	\$9.35	\$107.00
COMSEC Technician III	\$47.36	\$38.28	\$8.37	\$94.00
COMSEC Technician III	\$41.59	\$33.61	\$7.80	\$83.00
COMSEC Technician I	\$36.49	\$29.50	\$7.01	\$73.00
CADD Technician VI	\$87.21	\$70.49	\$15.30	\$173.00
CADD Technician V	\$77.16	\$62.37	\$13.47	\$153.00
CADD Technician IV	\$67.79	\$54.79	\$12.42	\$135.00
CADD Technician III	\$59.52	\$48.11	\$10.37	\$118.00
CADD Technician II	\$52.31	\$42.28	\$9.41	\$104.00
CADD Technician I	\$45.87	\$37.07	\$8.06	\$91.00
Project Coordinator VI	\$92.60	\$74.85	\$16.56	\$184.00
Project Coordinator VI	\$79.72	\$64.44	\$14.84	\$159.00
Project Coordinator IV	\$70.02	\$56.60	\$12.38	\$139.00
Project Coordinator III	\$57.97	\$46.86	\$10.18	\$115.00
Project Coordinator II	\$47.36	\$38.28	\$8.37	\$94.00
Project Coordinator I	\$39.16	\$31.65	\$7.19	\$78.00

Notes:

- 1. Above listed rates are effective January 1, 2020 through December 31, 2020.
- 2. Above listed rates are based on the At-Office overhead rate for Buildings and Infrastructure Americas Design for the Fiscal Year Ended September 29, 2018.
- 3. Buildings and Infrastructure Americas Design is a Business Unit of Jacobs Engineering Group Inc.
- 4. Direct Labor Rate is maximum compensation for that Labor Category.
- 5. Pay Grade Level I: 0-7 years experience
- 6. Pay Grade Level II: 5-15 years experience
- 7. Pay Grade Level III: 10-20 years experience
- 8. Pay Grade Level IV: 15+ years experience
- 9. Pay Grade Level V: 20+ years experience
- 10. Pay Grade Level VI: 25+ years experience
- 11. Other Direct Costs (ODC) will be billed at actual cost without markup
- 12. Contracting method will be agreed upon by Consultant and LGB prior to approval of proposal and execution of work.

Title/Category		Direct Labor Rate	Overhead	Profit	Total Loaded Rate
LEXAX		126.28%			
LEXAX Construction Services, Inc.	Patricia Benny	\$40,00	\$50.51	\$9.05	\$99.56
B. Additional Services				<u> </u>	
D. Auditioliai Selvices					
Any additional services required in a and the following hourly rates will ap		A & B will	be treated as	additiona	l al services
Any additional services required in a	oply:	A & B will	be treated as Office Rate	additiona	Home Rate
Any additional services required in a and the following hourly rates will ap	oply:	A & B will	Office	additiona	Home
Any additional services required in a and the following hourly rates will ap	oply:	A & B will	Office Rate	additiona	Home Rate
Any additional services required in a and the following hourly rates will ap LEXAX - Additional Service Sr. Document Control	oply:	À & B will	Office Rate \$110.50	additiona	Home Rate \$113.53
Any additional services required in a and the following hourly rates will ap LEXAX - Additional Service Sr. Document Control Document Control	oply:	A & B will	Office Rate \$110.50	additiona	Home Rate \$113.53 \$88.30
Any additional services required in a and the following hourly rates will ap LEXAX - Additional Services Sr. Document Control Document Control Lead Estimator	oply:	À & B WIII	Office Rate \$110.50	additiona	### ##################################

LENAX (T & M) Fee Breakdown based on 40 hours per week for 10 months for Document Control Support Services from field office.

Information retrieved from proposal dated July 1, 2019.



Schedule of Fees 2019 - 2020 NOTE: Rates will be adjusted annually each July 1st to reflect increased costs

Personnel Rates: Per Hour Unless Otherwise Noted

Task				Task			
Code	Engineering and Consulting Personnel		Rate	Code	Equipment Usage (bully Unites Otherwise Hotel)		Rate
10026	Senior Principal Advisor/Consultant	\$ \$	300.00 200.00	95318 95309	Skidmore Torque Wrench, Small	\$	40.00
10001	Principal Engineer/Geologist	s 5	190.00	95309	Torque Wrench, Large	\$	15.00
70000	Metallurgical Engineer Registered Goolechnical Engineer	\$	195,00	95315	Torque Multiplier	\$ \$	25,00 40,00
10010	Technical Advisor	\$	195,00	95321	Air Meter	S	20.00
10011	Material Scientist, Welding/NDT Consultant	Š	205.00	95324	Brass Mold	\$	20.00
70003	Registered Geologist/Certified Engineering Geologist	Š	185.00	95343	Nuclear Gauge (Per Hour)	\$	9.00
10003	Senior Engineer/Geologist	s	175.00	95333	Pull Test Equipment	Š	60.00
10009	Registered Civil Engineer	Š	170,00	95348	Concrete/Asphalt Coring Equipment	Š	600.00
60003	Roofing/Waterproofing Consultant	\$	195.00	95327	Pachometer	5	55,00
10013	Project Engineer/Manager	\$	165.00	95336	Floor Flatness (Dipstick)	5	45.00
30000	Quality Control Manager	5	155.00	95330	Schmidt Hammer	\$	20.00
10005	Senior Staff Engineer/Geologist	5	150.00	95341	Vapor Emission Test Kits	5	30.00
10007	Staff Engineer/Geologist	\$	145.00	95342	Relative Humidity Probe	5	60.00
10015	Quality Control Administrator	\$	135.00	95339	UPV (Ultrasonic Pulse Velocity) Meter	\$	350.00
10019	Metallurgical Technician	\$	110.00	95351	Fireproofing Adhesion/Cohesion (Per Test)	\$	35.00
90001	CADD Operator/Draftsperson	\$	97.00	95300	A Scan Ultrasonic Equipment and Consumables	\$	75.00
70107	Field Supervisor	\$	130.00	95303	Magnetic Particle Equipment and Consumpbles	\$	10.00
91030	Safely Supervisor	\$	130.00	95306	Liquid Penetrant Consumables	\$	35.00
20000	Laboratory Manager	\$	115.00	95307	Phased Array Ultrasonic Equipment (Per Hour)	5	60.00
98000	Laboratory Technician	\$	95,00	95347	Ground Penetrating Radar	\$	300.00
90005	Expert Wilness Testimony	\$	525.00	95345	Impact Echo	\$	350.00
91010	Qualified SWPPP Developer	S	150.00	95362	Ultrasonic Tomography	\$	450.00
91000	Qualified SWPPP Practitioner	\$	135.00	95349	Inertial Profiler (Per Hour)	S	260.00
30001	Vibration Engineer	Š	175.00	95357	Project Dedicated Vehicle	5	110.00
				95384	Roller Compacted Concrete Vibrating Hammer/Tampling Plate	5	70.00
Task				95367	Half-cell Potential Equipment Set	\$	350.00
Code	Field Inspection Personnel		Rate	95368	Concrete Electrical Resistivity Meter	5	160.00
10101	Concrete/Reinforced Steel Inspector	\$	115.00	95369	Field Hardness (Steel)	5	100.00
10103	Prestressed/Post Tensioned Inspector	S	115.00	95370	Coating Thickness Gauge	\$	100.00
10105 10109	Concrete ICC Inspector	\$ \$	115.00 115.00	95371 95372	Temperature Control Curing Box (Per Month)	Ş	450.00
10111	Orilled-In-Anchor Inspector	s \$	115.00	93372	Temperature Matching Curing Box (Per Month)	\$	520.00
10111	Gunite/Shotcrete Inspector Masonry Inspector	\$	115.00	fask			
10713	Structural Steel/Welding Inspector	S	115.00	Code	Specimen Pick-Up		- ec./-
10203	AWS Certified Welding Inspector	s	115.00	20102	Standard Sample: Concrete Cylinders (Each)	\$	23.00
10207	Fireproofing Inspector	s	115,00	20101	Standard Sample: Mortar/Grout Cubes and Cores,	\$	23.00
10501	Lead Inspector	Š	119.00	2010,	Fireproofing, Rebar, and Epoxy Prisms (Each)	•	20,00
10115	Firestop Special Inspector - IFC Premier	\$	130.00	20103/	Oversize Sample: Masonry Prisms, Shotcrete Panels,	\$	50.00
10117	Firestop Special Inspector - IQP	Š	160.00	20104	Flexural Beams (Each)		30.00
70109	L.A. Deputy Grading Inspector	s	120.00	20107	Technician for Specimen Pick-Up Not Listed Above	\$	95.00
75001	Asphalt Field and Plant Inspector/Technician	5	115,00		(Per Hour, 2-Hour Minimum)	•	40,90
70103	Pile Driving Inspector	s	115,00	20109	Technician for Specimen Pick-Up Before 5:00 a.m.	Ś	120.00
70101	Soils Technician	Ś	115.00		or After 5:00 p.m. Monday thru Friday, or All Day Salurday	•	
10107	Concrete Quality Control (ACI/Caltrans Technician)	\$	115.00		(Per Hour, 2-Hour Minimum Plus Micage)		
10122	Wood Framing Inspector	\$	115.00		• • • • • • • • • • • • • • • • • • • •		
60001	Roofing/Waterproofing Inspector	\$	122.00	Task			
10515	Mechanical Inspector	- 5	140.00	Code	Jobsite Trailer, Mobile or On-site Laboratory		Rate
10519	Electrical Inspector	\$	140.00	95360	Mobile laboratory for rapid strength concrete.	5	450,00
10521	Plumbing Inspector	\$	140.00		(per shift not exceeding 12 hours)		
10523	Building Inspector	S	135.00		All others by quotation		
30002	Vibration Monitoring Technician	5	108.00				
50003	Field Engineering Technician	\$	120.00	Task			
	•			Codn	Concrete Tests (Field Made Specimens)		Rate
Task	Le pride in teach fail in		_	20201	6" x 12" Cylinder: Compression Strength	\$	36.00
Code	Shop Inspection Personnel		Rate		(ASTM C39)		
10301	Structural Steel Fabrication Inspector	\$	116.00	20202	4" x 8" Cylinder: Compression Strength	\$	31.00
10309	Batch Plant Quality Control Technician/Inspector	s	115.00	2000	(ASTM C39)		
10325	Glue-Laminaled Fabrication Inspector		uotation	20203	Density of Structural Lightweight Concrete	\$	77.00
10328	Pre-Cast Concrete/Pipe Fabrication Inspector	\$	116.00	20207	Equilibrium or Oven Dry Method (ASTM C567)		
fuel				20205	Core Compression including Trimming (ASTM C42)	\$	62.00
fask	Non Destruction Factor Hardenaid		0	20207	6" x 6" x 18" Flexural Beams Not Exceeding	s	\$5.00
10401	Non-Destrictive Testing Personnel	Ś	Rate 120.00	20209	Referenced Size (ASTM C78, C293 or CTM 523)		00.00
10403	NDE Ultrasonic Testing Technician NDE Magnetic Particle Testing Technician	\$ \$	120.00	20209	Splitting Tensile Strength (ASTM C496)	\$	90.00
10405	NDE Dye Penetrant Tosting Technician	S	120.00	80003	Modulus of Elasticity Test (ASTM C469) Rapid Chloride Permeability Test: Cylinders or	\$	240.00 490.00
10305	Combination NDE Technician/Welding Inspector	s \$	120.00	00043	Cores (ASTM C1202)	3	490.00
10409	Radiographic Testing (crew of 2)	\$	315.00	80006	Density, Absorption, and Voids in Hardened	s	450.00
		•		40000		,	430.00
10020	NDE Engineer	S	180.00		Concrete (ASTM C642)		



General Conditions

NOTE: Field inspection work conditions are established by contract with Operating Engineers, Local 12

NOTE: A minimum of 24 hours notice is required for testing and inspection services.

NOTE: For projects subject to a Project Labor Agreement (PLA), if lerms/conditions of the PLA are more restrictive those terms/conditions will apply.

NOTE: Rates will be adjusted annually each July 1st to reflect increased costs

Administrative Fees

All administrative costs including report distribution and Twining ConstructionHive system are billed at the following percentage of the monthly invoice total: Note that hard copies of reports will be sent only to governing jurisdictions that mandate them. All other parties will receive reports electronically. The administrative fee above will receive reports electronically. The administrative fee above will be increased by 1% if additional hard copies of reports are requested

Minimum Charges (Inspection and Technician Personnel Only - Other Personnel Charged on Portal to Portal Basis)

2-Hour Minimum: Inspector arrives at jobsite, no work to perform.

4-Hour Minimum: 1 to 4 hours of inspection

8-Hour Minimum: Over 4 to 8 hours of inspection

Regular Time

The first 8 hours worked Monday through Finday between 5.00 a.m. and 5:00 p.m.

Time and One-Half (All Types of Inspection)

All shifts will be billed based on the time and date of their start. Any increment past 8 hours through 12 hours worked Monday through Friday and the first 12 hours on Saturday. Time and one-half will also be charged for the first four hours before 5,00 a.m. and after 5,00 p.m.

Double Time (All Types of Inspection)

All shifts will be billed based on the time and date of their start. After the first 12 hours worked Monday through Saturday, all day Sunday, holidays, and the first Saturday following the first Friday in June and December. After the first four hours worked before 5:00 a.m. and after 5:00 p.m. Holidays are New Year's Day, Memorial Day, Independence Day, Labor Day, Veterans Day, Thanksgiving, the day after Thanksgiving and Christmas Day.

When personnel are required by their duties to work more than five consecutive hours without a one-half hour uninterrupted meal period, one half hour at double time rate will be charged in addition to any applicable overtime for actual hours worked.

Shift Differential (Applies to Regularly Scheduled Shifts Only)

A \$1,00 per hour shill differential premium will be charged for all inspection hours that fait outside of the 5:00 a.m. to 5:00 p.m. time period. Twining will require 48-hour notice along with the General Contractors approved shift letter prior to beginning a shift that will include hours falling outside this time period. Should this notice not be provided, all work performed on that shift will be billed at the overtime rate

If three shifts per day are required, the first shift will be billed at the standard rate. The second shift shall be billed in accordance with the previous paragraph. The third shift shall be billed at 8 hours for the first 6 1/2 hours worked and appropriate overtime for all hours thereafter.

For projects outside a 50-mile radius from the nearest Twining facility, \$0.70 per excess mile to and from the project will be charged for inspectors and technicians Other than small tools, whenever project related equipment is required to be transported to and from the project sile, time and mileage for inspectors and field technicians will be billed on a portal to portal basis. For all projects, \$0.70 per mile rate and applicable travel time will be charged portal to portal for engineers, consultants, supervisors, and laboratory technicians from the laboratory to the project site and return

For work locations located 100 miles or more from Twining, travel time will be charged at the relevant rate for inspectors and technicians in addition to a subsistence allowance.

Weekend Sample Pick Ups

In order to be in strict conformance with testing standards, it may be required that weekend pick-ups be performed (e.g. concrete specimens cast on Friday must be picked up on weekend in order to be in conformance with ASTM C31 requiring specimens to be moved to their final curing location within 48 hours of casting.) Applicable charges for weakend work will apply when this is required. Should these charges not be authorized then Twining will not be responsible for any negative consequences.

Parking, air fare, car rental, food and lodging, etc. will be charged at cost plus 20% per processed invoice, unless provided by client

Costs presented assume that client will provide project specific documents (plans, specifications, submittals, RFIs, etc.) for all inspection personnel. Should project specific documents be provided electronically through a "for fee" service, the client will be responsible for providing access and paying any fees for the service

Project Site Encilities

Prices quoted assume that initial curing facilities for test samples that comply with relevant test standards and project requirements are provided by others. In addition, prices quoted assume that work/desk space for inspection staff are provided by others. Additional costs will apply should Twining be required to provide such facilities.

Subsistance on remote jobs will be charged per quotation.

Laboratory Testing Hours

Please note that laboratory testing will be billed on an hourly basis for non-standard tosts. If testing is required to be performed on Saturdays, Sundays, holidays, or before 5:30 a.m. or after 4:00 p.m. on weekdays, an additional hourly charge with a minimum of one hour will be applied for the laboratory technician. 1.5 x regular test rate will be charged for rush testing

Charges for Subcontracted Services

Material sent to outside laboratory for testing Cost plus 20% Material sent to outside fabricator or machine shop: Cost plus 20% Glu-Lam beam inspection: Cost plus 20% Cost plus 20% Other subcontractors: Cost plus 20% Project exclusive equipment purchase:



General Conditions, continued

Limit of Liability

Client agrees to first Twining's aggregate Bability to all entities for alleged or actual errors and omissions in the performance of its professional services under this agreement to \$50,000.00 or the fees actually paid to Twining, whichever amount is greater. Higher limits may be available by quotation.

Certified Payroll

Certified payroff will be provided, upon request, at an additional charge of \$150.00/month. Fee applies to every month that certified payroff must be submitted regardless of whether or not services were provided for any given month

Final Reports Required by Jurisdiction

If a final report or affidavit is required, we must first review all asspection and lesting reports and clear up any unresolved issues on these reports. These issues will typically require approval by the engineer or architect of record. This process can take several weeks or just a day, depending on the number and complexity of the issues. Cost for final reports will be billed hourly.

Terms of Payment

Fees charged are for professional and technical services and are due upon presentation. If not paid within 30 days from date of invoice, they are considered past due and a finance charge of 11/2% per month will be added to the unpaid balance.

A 3% fee will be applied for payments processed by credit card

All involce errors or necessary corrections shall be brought to the attention of Twining within 15 days of receipt of invoice. Thereafter, customer acknowledges invoices are correct and valid. Twining reserves the right to terminate its services to a customer without notice if all invoices are not current. Upon such termination of services, the entire amount accrued for all services performed shall immediately become due and payable. Customer waives any and all claims against Twining, its subsidiaries, affiliates, servants and agents for termination of work on account of these forms.

In the event of any litigation arising from or related to any agreement to provide services whether verbal or written, the prevailing party shall be entitled to recover from the non-prevailing party all reasonable costs incurred, including staff time, court costs, attorney's fees and all other related expenses in such litigation. Additionally, in the event of a non-adjudicative settlement of fitigation between the parties or a resolution of dispute by arbitration, that same process shall determine the prevailing party.

Specimen Disposal

Specimens will be discarded after testing unless: Twining has been notified prior to testing that the customer wishes to retrieve the specimens or storage arrangements are made

Oversize Specimens

An extra charge will be made when test specimens require more than one person to handle because of size or weight.

Elevated Work Platforms

In the event an elevated work platform is required to safely complete our inspections, the client must provide safe access, including a trained and certified operator, to Twining inspection and testing personnel.

Standard Hourly Rate Sheet

ARB 749.280.9743 WWW.ARBELECTRIC.COM Electrical Inc.

					3.4)	CCCTICMI TIT	.C.
		'inancial					
	S	tatement				Accepted	
Description		Amount	Al	RB Adj.	Ref.	Amount	%
Direct Labor Rate							
Civil Engineer	\$	120					
Electrical Engineer	\$	120					
Drafting	\$	70					
Administration	\$	50					
Direct Labor Total		\$33,275	,			\$33,275	100.00%
Indirect Costs:			-,		_		
General Overhead							
Indirect Labor		\$2,000		\$0	Α	\$2,000	6.01%
Bid & Proposal Labor		2,000	.2.7	(1,000)		\$1,000	3.01%
Advertising Labor		500		(2,500)	I	(\$2,000)	-6.01%
Rent		11,770		(7,500)	В	\$4,270	12.83%
Maintenance & Repairs	`.Ţ	750	٠.	(750)	Q	\$0	0.00%
Travel	t.	850		(50)	C,D	\$800	2.40%
Insurance		12,753		(5,000)	E,Q	\$7,753	23.30%
Telephone	7	2,311				\$2,311	6.95%
Taxes & Licenses	•	3,000		(1,500)	F .	\$1,500	4.51%
Depreciation & Amortization		250	• *	0	G,Q	\$250	0.75%
Employee Train/Recruit/Moving		. 600	٠.	(300)	J	300	0.90%
Professional Fees		2,000		0	K	\$2,000	6.01%
Computer	•	151		(51)	•	\$100	0.30%
Supplies & Miscellaneous		663		(63)	M	\$600	1.80%
Total General Overhead	-	\$39,598	(\$18,714)	- 1 - 1 - 1 - 1 - - -	\$20,884	62.76%
Indirect Cost Rate - Office		119.00%		62.76%	-	62.76%	
Indirect Cost Rate - Field		119.00%)	62.76%		62.76%	
Company Profit per Classification pe	er Hou	ır					
	Dire	ct Labor Rate	Perce	ntage Profit	Profit as a Do	llar Value per Hour	
Civil Engineer	\$	120		5%	\$6		
Electrical Engineer	\$	120		5%	\$ 6		•
Drafting	\$	70		5%	\$4		
Administration	\$	50		5%	\$3		
Loaded Rates per Classification per l	Hour						
	Dire	ct Labor Rate	Perce	entage Profit I	ndirect Cost Rate	Loaded Rate	
Civil Engineer	\$	120		5%	62.76%	\$201	
Electrical Engineer	\$	120		5%	62.76%	\$201	
Drafting	\$	70		5%	62.76%	\$117	
Administration	\$	50		5%	62.76%	\$84	

FY 2020

Standard Hourly Rate Sheet



References

ARB Electrial Inc. Indirect Cost Rate Internally Audited

- A Excess executive compensation unallowable per 48 CFR 31.205-6(p)
- B Unallowable costs of idle capacity per 48 CFR 31.205-17(c)
- C Lodging, meal, and mileage rates in excess of federal travel regulation unallowable per 48 CFR 31.205-46(a)(2).
- D Inadequate supporting documentation unallowable per 48 CFR 31.201-2(d).
- E Key person life insurance unallowable per 48 CFR 31.205-19(e)(2)(v).
- F Unallowable taxes and licenses per 48 CFR 31.205-41.
- G. Amortization of goodwill unallowable per 48 CFR 31.205-49.
- H Costs of memberships in civic and community organization unallowable per 48 CFR 31.205-1(f)(7).
- L. Public relations and advertising unallowable per 48 CFR 31.205-1.
- J Entertainment unallowable per 48 CFR 31.205-14.
- K Legal Costs in relation to litigation unallowable per 48 CFR 31.205-47(f)(5).
- L Interest unallowable per 48 CFR 31.205-20.
- M Contributions unallowable per 48 CFR 31.205-81.
- N Promotional Marketing unallowable per 48 CFR 31.205-1 and 31.205-38.
- O Unsupported direct selling costs, no documentation available to demonstrate and support "person to person" selling unallowable per 48 CFR 31.205-38(b)(5).
- P Directly associated cost to unallowable advertising, public relations and direct selling labor unallowable per 48 CFR 31.201-6(a).
- Q Auto Allowance payments of \$12,000 unallowable per 48 CFR 31.205-6(m)(2) and 31.201-2(d), documentation of mileage log not available and unable to support and show segregation of business and personal use.

 Associated costs for vehicle unallowable per 48 CFR 31.205-46(d) and 31.205-6(m)(2). Associated costs include Insurance (\$1,556), Maintenance (\$997), and Depreciation (\$664).
- R Bonus payments unsupported and not performance based unallowable per 48 CFR 31.205-6 and 2010 AASHTO Audit Guide, Chapter 7, Section 7.12 C
- S Labor Variance Account to show the uncompensated overtime labor adjustment. Labor Variance account is an offset account to balance to payroll.
- T Severance payment does not follow company's established severance policy, unallowable per 48 CFR 31.205-6(g).



Title/Category	Direct Labor Rate	Overhead	Profit	Total Loaded Rate
ESA Associates		193.82%		
Senior Director III	\$78.13	\$151,42	\$70.45	\$300.00
Senior Director II	\$72.92	\$141.33	\$65.76	\$280.00
Senior Director I	\$69.01	\$133.76	\$62.23	\$265.00
Director III	\$62,50	\$121,14	\$56.36	\$240.00
Director II	\$58.59	\$113.57	\$52.84	\$225.00
Director I	\$54.69	\$106.00	\$49.32	\$210,00
Managing Associate III	\$53.39	\$103.47	\$48.14	\$205.00
Managing Associate II	\$49.48	\$95.90	\$44.62	\$190,00
Managing Associate I	\$45.57	\$88.33	\$41.10	\$175.00
Senior Associate III	\$44.27	\$85.81	\$39.92	\$170,00
Senior Associate II	\$41.67	\$80.76	\$37.58	\$160.00
Senior Associate I	\$39.06	\$75.71	\$35.23	\$150.00
Associate III	\$35.16	\$68.14	\$31.70	\$135.00
Associate II	\$32,55	\$63.09	\$29.36	\$125.00
Associate I	\$27.34	\$53.00	\$24.66	\$105.00
Project Technician I	\$31.25	\$60.57	\$28.18	\$120.00
Project Technician I	\$26.04	\$50.47	\$23.48	\$100.00
Project Technician I	\$22,14	\$42.90	\$19.96	\$85.00

Notes:

- 1. Above listed rates have been provided by ESA Associates.
- 2. ESA will use the same rates used in 2019 per email 3/9/20; effective through December 31, 2020.
- 3. ESA is using our standard billing rates and with the staffing for this effort the average multiplier for the Project is 3.84.
- 4. Other Direct Costs (ODC) will be billed for computer and all accessories.

Tialo/Cotogoni	Direct Labor	Overhead	Profit	Total Loaded
Title/Category	Rate	Overneau	Piolit	Rate
Ricondo		208.20%		
Officer	\$101.14	\$210.58	\$42.28	\$354.00
Director	\$86,86	\$180.84	\$36.31	\$304.00
Managing Consultant	\$72.29	\$150.50	\$30.22	\$253.00
Senior Consultant	\$59.71	\$124.33	\$24.96	\$209.00
Consultant	\$47.71	\$99.34	\$19.94	\$167.00
Technical Specialist	\$38.57	\$80.31	\$16.12	\$135.00

Ricondo & Associates, Inc.

Multiplier Calculations based on 2017 Audited Overhead Rate (released May 21, 2018)

Direct Labor	1	(a)
Home Office Overhead Rate (OH)	2.082	(b)
Direct Labor + OH	3.082	(c) = (a)+(b)
Profit @ 15%	0.462	(d) = (c) x Profit %
Multiplier	3.544	(e) = (c)+(d)

JACOBS ENGINEERING GROUP INC. JACOBS BUILDING AND INFRASTRUCTURE AMERICAS AND CH2M HILL CLIENT SECTORS

Summary of At-Office and At-Site Combined Rates
For Fringe Benefits, Overhead and General & Administrative Expense
in Accordance with the Federal Acquisition Regulation

For the Fiscal Year Ended September 28, 2018 With Report of Independent Auditors

THIS DOCUMENT CONTAINS CONFIDENTIAL AND PROPRIETARY INFORMATION WHICH HAS COMMERCIAL AND/OR FINANCIAL VALUE. SUCH INFORMATION HAS NOT BEEN PUBLICLY DISCLOSED AND IS EXEMPT FROM DISCLOSURE UNDER THE FREEDOM OF INFORMATION ACT AND ALL OTHER SIMILAR LEGISLATION. JACOBS ENGINEERING GROUP INC. REQUESTS WRITTEN NOTICE BEFORE ANY PUBLIC DISCLOSURE IS MADE.

JACOBS ENGINEERING GROUP INC. JACOBS BUILDING AND INFRASTRUCTURE AMERICAS AND CH2M HILL CLIENT SECTORS

Summary of At-Office and At-Site Combined Rates For Fringe Benefits, Overhead, and General & Administrative Expense in Accordance with the Federal Acquisition Regulation

For the Fiscal Year Ended September 28, 2018

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At-Site Rates and Statements of Fringe Benefit Expense and General										
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Regulation										

CH2M Hill Federal Acquisition Regulation Compliant Indirect Cost Rates

Cleary Government Services, LLC

REPORT OF INDEPENDENT PUBLIC ACCOUNTANT

To: Board of Directors of Jacobs Engineering Group Inc.

Re: Indirect Cost Rates Prepared in Accordance with Part 31 of the Federal Acquisition Regulation

We have audited the accompanying Schedules of the Combined At-Office and At-Site Rates (Combined Indirect Cost Rates) for certain operating units of Jacobs Engineering Group Inc. (Jacobs) for the fiscal year ended September 28, 2018 prepared in accordance with Title 48, Code of Federal Regulations, Part 31 of the Federal Acquisition Regulation (FAR). The operating units included in the Combined Indirect Cost Rate Schedules are:

- Jacobs Buildings and Infrastructure Americas (B&IA):
 - o BIA Design
 - o BIA PMCM
- CH2M Hill Client Sectors:
 - o National Governments
 - State and Local Governments
 - o Private Clients

These schedules are the responsibility of Jacobs' management. Our responsibility is to express an opinion on these schedules based on our audits.

We conducted our audits in accordance with auditing standards generally accepted in the United States and also the standards applicable to financial audits contained in *Government Auditing Standards* (July 2011 Revision), issued by the Comptroller General of the United States. Those standards require that we plan and perform the audits to obtain reasonable assurance about whether the Schedules of the Combined Indirect Cost Rates are free of material misstatement. The audits include reviewing, on a test basis, evidence supporting the amounts and disclosures in the schedules and performing such other procedures as we considered necessary in the circumstances. Our audits also included assessing the accounting principles used and the significant estimates made by management, as well as evaluating the overall schedule presentation. We believe that our audits provide a reasonable basis for our opinion.

The aforementioned Schedules of the Combined Indirect Cost Rates were prepared on a basis of accounting practices as prescribed by Part 31 of the FAR as discussed in Note 2, and are not intended to be a presentation in conformity with accounting principles generally accepted in the United States.

In our opinion, the Schedules referred to above present fairly, in all material respects, the Combined Indirect Cost Rates of the two aforementioned Jacobs business units for the fiscal year ended September 28, 2018, calculated in accordance with Part 31 of the FAR.

In accordance with the Government Auditing Standards, we have also issued our report dated March 28, 2019 on our consideration of Jacobs' internal controls over financial reporting and our test of its compliance with applicable laws and regulations. That report is an integral part of an audit performed in accordance with Government Auditing Standards and should be read in conjunction with this report.

Cleary Government Services, LLC

Individuals relying on this report must have an adequate understanding of Part 31 of the FAR. Therefore, this report is intended solely for the information of management and government agencies for use under contracts governed by the aforementioned regulations. It is not intended to be and should not be used by anyone other than the aforementioned parties nor should it be used for any other purpose.

Cleany Government Services, LLC

Chicago, Illinois March 28, 2019

JACOBS ENGINEERING GROUP INC. JACOBS BULIDINGS AND INFRASTRUCTURE AMERICAS AND CH2M HILL CLIENT SECTORS AT-OFFICE COMBINED RATE For Fringe Benefits, Overhead and General & Administrative Expenses For the Fiscal Year Ended September 28, 2018

	At-Office Net of Adjustments & Unallowable Cost ORIM HUI Clent								st Accounting			
		BtA Design	_	BIAPMCM	_	Sectors		Subtotel	_^	djustments	Notes	Combined At- Office
Direct Labor Base	\$	277,516,481	\$	14,762,718	\$	413,137,034	\$	705,416,234	\$	(4,821,534)	3	\$ 700,594,700
Fringe Benefite on Direct Labor*			_		_		_					
Payroll Taxes	5	21,747,058	2	1,156,853	ş	39,378,302	\$	62,282,213	5	(551,652)		
Paid-Time Off (Vacation, Holiday & Sick Pay)		30,307,470		1,612,231		59,316,060		91,235,761		(341,040)		90,894,721
Group Insurance		13,965,414		742,902		39,094,844		53,803,160		(678,779)		53,124,380
Workers Compensation		423,850		22,547		•		446,397		1,632		448,229
General Liability & Other Insurance		4,593,774		244,370		•		4,838,143		7,512,593	4	12,350,737
Thrift Plan - 401(k) Company Match		6,046,327		321,639		0.054.000		6,367,967		14,827,387	5	21,195,354
Other Fringe Senefits		75,314	_	4,006	-	3,054.960	_	3.134,281*	_	(2,922,985)	٠.	211,296
,	•	77,159,207	•	4,104,547		140,844,167	•	222,107,921	<u> </u>	17,847,357		\$ 239,955,278
Overhead & General and Administrative Expenses*								-				
Indirect Labor & Related Fringes	\$	72,352,539	\$	1,464,290	\$	55,104,318	\$	128,921,147	\$	6,579,187	3	\$ 135,500,335
Bonus/Incontive Pay		3,511,162		122,601		22,013,551		25,647,314		(14,954,696)	5	10,692,618
Other Employee Benefits		1,575,401		30,135		5,239,272		6.844.608		-		6,844,608
Pension & Restricted Stock Amortization		6,150,668		142,388		-		8,293,057		2,862,279	6	9,155,335
Intercompany Labor, Fringes & Other Expenses		-		•		14,287,859		14,267,859		(1,980,725)	3	12,287,133
Severance & Separation Pay		588,668		-		-		588,668				588,660
Office Occupancy Expenso		43,682,784		1,811,189		8,480,763		51,974,737		(47,858)		51,926,879
Personal Computer & Network Services		17,403,659		1,310,312		67,909		18,782,079		(2)		18,782,077
Travel & Subsistence		2,757,542		61,880		6,278,447		9.097,868		-		9,097,868
Taxes, Licenses & Insumnce		1,607,801		65,256		9,701,102		11,374,159		(7,512,593)	4	3,881,569
Outside Services		463,076		4,850		17,855,886		18,323,811		-		18,323,811
Office Expenses, Postage, Repro & Other		883,983		48,527		2,178,908		3,111,418		(1,018)		3,110,400
Tomporary Staff		65,997		204		•		68,201		-		68,201
Vehicle Expenses		978,299		31,686		•		1,009,965		-		1,009,969
Project & Proposal Support Services		9,579,500		-				9,579,500		-		9,579,500
Corporate & Intermediate Allocations		64,318,919		3,741,425		140,770,787		208,831,132		• .		208,831,13
Other Indirect Expenses		1,558,922		91,585		<u>-</u> _		1,650,507	_	. (4)		1,650,503
Total Overhead and G&A Expenses*	\$	227,479,119	\$	8,926,308	\$	279,958,802	\$	516,364,229	\$	(15,055,430)		\$ 501,308,799
Total Fringe & Indirect Expenses*	3	304,638,326	\$	13,030,855	\$	420,802,969	\$	738,472,150	<u> </u>	2,791,927		\$ 741,264,07
At-Office Indirect Cost Rates		109.77%		88.27%		101.86%		104.69%		-		105.60%

^{*} Net of Unallowable Costs

The accompanying notes are an integral part of this statement.

JACOBS ENGINEERING GROUP INC. JACOBS BULIDINGS AND INFRASTRUCTURE AMERICAS AND CH2M HILL CLIENT SECTORS AT-SITE COMBINED RATE For Fringe Benefits, Overhead and General & Administrative Expenses For the Fiscal Year Ended September 28, 2018

	_		_	5. 415.			_		_				
	At-Site Net of Adjustments & Unallowable Cost								Cos	t Accounting			
	⊢	Net of Ad	USTR	ignts & Unako		a cost IZM HW Clerit	l		Ha	monization	_	_	
•	ı	DIA Darlan		BIA PMCM	_	Sectors	ı	Subtotal	ΙA	djustments	Notes	CC	mbined At-
	_	BIA Design	_	BIA PINICINI		Succes	Щ	Subtoter		,	ž	Щ.	Site
Oirect Labor Base	\$	97,643,138	\$	79,193,140	\$	42,170,531	\$	219,006,808	\$	(492,153)	3	\$	218,514,655
Eringo Bonefits on Direct Labor*													
Payroll Taxes	5	7,851,621	\$	6,205,821	\$	4,019,499	5	17,876,942	5	(56,309)	3	5	17.820.632
Paid-Time Off (Vacation, Holiday & Sick Pay)		10,663,570		8,648,652		6,054,625		25,366,847		(34,811)	3		25,332,036
Group Insurance		4,913,679		3,985,222		3,990,565		12,889,466		(69,286)			12,820,181
Workers Componsation		149,130		120,951		-		270,081		187	3		270,268
General Liability & Other Insurance		1,616,302		1,310,896				2,927,199		766,840	4		3,694,039
Thrift Plan - 401(k) Company Match		2,127,378		1,725,403				3,852,780		1,513,490	6		5,366,270
Other Fringe Benefits		26,499		21,492		311,832		359,823		(298,361)	0		61,462
	3	27,148,179	\$	22,018,438	5	14,376,521	\$	63,543,138	3	1,821,750		\$	65,364,888
Condend Consul and Administrative Consultation													
Overhead & General and Administrative Expenses*	s	00 400 074		7.855.040					_			_	
Indirect Labor & Rolaled Fringes	5	25,456,971 1,235,389	3		\$	5,824,716	3	38,936,728	\$	671,564	3	5	39,608,290
Bonus/Incentive Pay Other Employee Benefits		1,235,369 544,764		657,682		2,247,010		4,140,081		(1,528,485)	5		2,613,596
Pension & Restricted Stock Amortization		2,164,090		157,710 763,828		534,793		1,237,267		***	_		1,237,267
		2,104,090		103,020		4 220 400		2,927,917		292,164			3,220,082
Intercompany Labor, Fringes & Other Exponses Severance & Separation Pay		007.404		-		1,200,132		1,200,132		(199,190)	3		1,000,942
		207,121		452.070		400 000		207,121		4-0-0			207,121
Office Occupancy Expense		1,428,201		153,079		135,566		1,716,846		47,658			1,764,704
Personal Computer & Network Services Travel & Substatence		68,385		8,060		6,932		83,378		2			83,380
		970,231		331,946		640,866		1,943,043					1,943,043
Taxes, Licenses & Insurance		256,749		90,820		990,230		1,337,599		(766,840)	4		570,759
Outside Services		146,889		25,953		2,078,866		2,251,708					2,251,708
Office Expenses, Postage, Repro & Other		35,770		9,490		188,163		233,423		1,018			234,441
Temporary Staff		23,221		. 1,096		•		24,317					24,317
Vehicle Expenses		39,364		19,842		•		59,206		•			59,206
Project & Proposal Support Services		3,370,511		******		40.000.000		3,370,511		•			3,370,511
Corporate & Intermediate Allocations		22,630,372		20,070,503		10,056,990		52,757,864		- .			52,757,864
Other Indirect Expenses	_	229,974		74,488	_	40.000.000	_	304,460	_	4			304,464
Total Overhead and G&A Expenses*	<u>\$</u>	58,808,003	\$	30,219,335	5	23,704,263	5	112,731,601	•	(1,479,906)		\$	111,251,695
Total Fringe & Indirect Expenses*	3	65,956,182	\$	52,237,773	ş	38,080,784	\$	176,274,739	\$	341,844		\$	176,616,583
At-Site Indirect Cost Rates		88.03%		65.96%		90.30%		80.49%					80.83%

^{*} Not of Unallowable Costs

The accompanying notes are an integral part of this statement.

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JACOBS ENGINEERING GROUP INC. JACOBS BUILDINGS AND INFRASTRUCTURE AMERICAS AND CH2M HILL CLIENT SECTOR

Notes to Statements of the Fringe Benefits, Overhead and General & Administrative Expenses for the Combined At-Office and At-Site Rates for the Fiscal Year Ended September 28, 2018

1. Acquisition of CH2M Hill

On December 15, 2017, Jacobs' completed the acquisition of CH2M HILL Companies, Ltd. (CH2M), an international provider of engineering, construction, and technical services, by acquiring 100% of the outstanding shares of CH2M's common and preferred stock. The combined Companies had annual revenues of approximately \$15 billion in FY 2018. The acquisition enhances Jacobs' position in the infrastructure, water and transportation markets among other markets. Jacobs and CH2M operated largely as separate, stand-alone companies during FY 2018. That is, each of the Companies' respective cost accounting practices and related CAS Disclosure Statements remained in effect during FY 2018. The combination of Jacobs and CH2M already has and will continue to yield significant operational and administrative efficiencies and savings through reductions in personnel, the closure and consolidation of redundant offices, etc.

As a result of the acquisition, CH2M is now a wholly-owned subsidiary of Jacobs. The development of the new Buildings and Infrastructure Americas (BIA) operating model and organization structure has been finalized. Management has completed the process of harmonizing the cost accounting practices and finalizing the FY 2019 indirect rate structure. As of September 29, 2018, the CH2M staff and projects are integrated into Jacobs' project accounting systems and indirect rate structure; allowing all of the Jacobs BIA employees to charge projects contracted by either firm. The final step of the accounting consolidation occurred on January 1, 2019 when all CH2M legacy personnel payroll was transferred to Jacobs' payroll system.

2. Basis of the Combined Indirect Rates

As noted above, the process of combining and integrating the operations and businesses of Jacobs and CH2M began in conjunction with the acquisition. Under the new organization structure planned for FY 2019, the operating units of Jacobs' Buildings and Infrastructure Americas (B&IA) business, BIA Design and BIA PMCM will be combined with CH2M Hill Client Sectors' National Governments, State and Local Governments, and Private Client businesses. The combined businesses will operate under the Buildings and Infrastructure Americas business unit.

Accordingly, for purposes of the Combined At-Office and At-Site Statements of the Fringe Benefits, Overhead and General & Administrative Expenses (Combined Indirect Rates), the operating results of the aforementioned businesses have been combined, net of unallowable costs. As explained below, certain adjustments and reclasses have been made in the presentation of the Combined Indirect Rates to bring consistency to the cost accounting practices for the combined Jacobs and CH2M Hill businesses.

The Audit Reports, Indirect Rate Schedules and Footnotes in the Reports for Buildings and Infrastructure Americas Design (BIA Design), Buildings and Infrastructure Americas Project Management/Construction Management (BIA PMCM) and CH2M Hill Federal Acquisition Regulation Compliant Indirect Cost Rates all dated March 28, 2019 are incorporated by reference herein in their entirety.

3. Reclass of Project Accounting and Contract Administration Costs

Under Jacobs' historical cost accounting practice and in accordance with its CAS Disclosure Statement, the costs of the project accounting and contract administration activities and functions in support of customer projects was treated as an indirect expense. On the other hand, CH2M Hill had treated these costs as direct costs when identifiable with a customer project. CH2M Hill is adopting Jacobs' cost accounting practice in FY 2019, and so, in the attached Combined At-Office and At-Site Schedules, CH2M Hill has reclassed the appropriate project accounting and contract administration Direct Labor that is specifically applicable to just the CH2M Hill FAR Compliant Rates. Accordingly, in the At-Office Indirect Rate, CH2M Hill has reclassed (\$4.8M) of Direct Labor and (\$1.8M) of Fringe Benefits for a total of \$6.6M to Indirect Labor and Fringes. Similarly, in the At-Site Indirect

JACOBS ENGINEERING GROUP INC. JACOBS BUILDINGS AND INFRASTRUCTURE AMERICAS AND CH2M HILL CLIENT SECTOR

Notes to Statements of the Fringe Benefits, Overhead and General & Administrative Expenses for the Combined At-Office and At-Site Rates for the Fiscal Year Ended September 28, 2018

3. Reclass of Project Accounting and Contract Administration Costs, continued

Rate, CH2M Hill has reclassed.(\$492k) of Direct Labor and (\$179k) of fringe benefits for a total of \$671k to Indirect Labor and Fringes. Of the Direct Labor and Fringes being reclassed, (\$1.9M) of the At-Office costs and (\$199k) of the At-Site Costs relates to CH2M Hill entities that are not included in the FAR Compliant rates, and as such, CH2M Hill is eliminating this labor and fringes from its claimed Overhead.

4. General, Professional Liability and Other Insurance Costs

In accordance with Jacobs' historical cost accounting practice and its CAS Disclosure Statement, the costs of General, Professional Liability and Other Insurance Costs (e.g., executive protection, auto, etc.) are included in Fringe Benefits. CH2M Hill's cost accounting practice was to treat these insurance costs as G&A costs. CH2M Hill is adopting Jacobs' cost accounting practice in FY 2019 for insurance costs, and so, in the attached Combined At-Office and At-Site Schedules, CH2M Hill has reclassed its insurance costs of \$7.5M and \$766k in the At-Office and At-Site Indirect rates, respectively, from G&A to Fringe Benefits.

5. 401(k) Company Match

Jacobs' practice is to include the cost of the 401(k) Company Match as Fringe Benefits. CH2M's historical practice was to treat the 401(k) Company Match as a G&A cost for indirect rate presentation purposes. Again, CH2M Hill is adopting Jacobs' method of accounting for the 401(k) Company Match costs, and accordingly, in the attached Combined At-Office and At-Site Schedules, CH2M Hill has reclassed its 401(k) Company Match costs of \$14.9M and \$1.5M in the At-Office and At-Site Indirect rates, respectively, from G&A to Fringe Benefits.

6. Pension Costs

Jacobs' historical practice and in accordance with its CAS Disclosure Statement, is to include the cost of Pensions as a G&A Cost. CH2M's historical practice was to treat Pension Costs as Fringe Benefits. CH2M Hill is adopting Jacobs' method of accounting for Pension Costs, and accordingly, in the attached Combined At-Office and At-Site Schedules, CH2M Hill has reclassed its Pension Costs of \$2.9M and \$292k in the At-Office and At-Site Indirect rates, respectively, from Fringe Benefits to G&A.

JACOBS ENGINEERING GROUP INC. JACOBS BUILDING AND INFRASTRUCTURE AMERICAS AND CH2M HILL CLIENT SECTORS

APPENDIX

Summary of At-Office and At-Site Rates and Statements of Fringe Benefit Expense and General & Administrative Expense in Accordance with the Federal Acquisition Regulation

Buildings and Infrastructure Americas Design

A Business Unit of Jacobs Engineering Group Inc.

For the Fiscal Year Ended September 28, 2018
With Report of Independent Auditors

THIS DOCUMENT CONTAINS CONFIDENTIAL AND PROPRIETARY INFORMATION WHICH HAS COMMERCIAL AND/OR FINANCIAL VALUE. SUCH INFORMATION HAS NOT BEEN PUBLICLY DISCLOSED AND IS EXEMPT FROM DISCLOSURE UNDER THE FREEDOM OF INFORMATION ACT AND ALL OTHER SIMILAR LEGISLATION. JACOBS ENGINEERING GROUP INC. REQUESTS WRITTEN NOTICE BEFORE ANY PUBLIC DISCLOSURE IS MADE.

Summary of At-Office and At-Site Rates and

Statements of Fringe Benefit Expense and

General & Administrative Expense in Accordance with the

Federal Acquisition Regulation

Buildings and Infrastructure Americas Design

A Business Unit of Jacobs Engineering Group Inc.

For the Fiscal Year Ended September 28, 2018

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Report of Independent Auditors	i
Summary of At-Office and At-Site Rates	2
Statement of Fringe Benefit Expense	3
Statement of General & Administrative Expense	4
Notes to Statements of Fringe Benefit Expense and	
General & Administrative Expense	5

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Cleary Government Services, LLC

REPORT OF INDEPENDENT PUBLIC ACCOUNTANT

To: Board of Directors of Jacobs Engineering Group Inc.

Re: Indirect Cost Rates Prepared in Accordance with Part 31 of the Federal Acquisition Regulation

We have audited the accompanying Summary of At-Office and At-Site Rates, Statement of Fringe Benefit Expense and Statement of General & Administrative Expense (Schedules of the Indirect Cost Rates) of Buildings and Infrastructure Americas (BIA) Design, a business unit of Jacobs Engineering Group Inc., for the twelve months ended September 28, 2018 prepared in accordance with Title 48, Code of Federal Regulations, Part 31 of the Federal Acquisition Regulation (FAR). BIA Design is a wholly-owned business unit of Jacobs Engineering Group Inc. These schedules are the responsibility of BIA Design's management. Our responsibility is to express an opinion on these schedules based on our audit.

We conducted our audit in accordance with auditing standards generally accepted in the United States and also the standards applicable to financial audits contained in *Government Auditing Standards* (July 2011 Revision), issued by the Comptroller General of the United States. Those standards require that we plan and perform the audit to obtain reasonable assurance about whether the Schedules of the Indirect Cost Rates are free of material misstatement. An audit includes reviewing, on a test basis, evidence supporting the amounts and disclosures in the schedules and performing such other procedures as we considered necessary in the circumstances. Our audit also included assessing the accounting principles used and the significant estimates made by management, as well as evaluating the overall schedule presentation. We believe that our audit provides a reasonable basis for our opinion.

The aforementioned Schedules of the Indirect Cost Rates were prepared on a basis of accounting practices as prescribed by Part 31 of the FAR as discussed in Note 2, and are not intended to be a presentation in conformity with accounting principles generally accepted in the United States.

In our opinion, the Schedules referred to above present fairly, in all material respects, the Indirect Cost Rates of BIA Design for the twelve months ended September 28, 2018, calculated in accordance with Part 31 of the FAR.

In accordance with the *Government Auditing Standards*, we have also issued our report dated March 28, 2019 on our consideration of BIA Design's internal controls over financial reporting and our test of its compliance with applicable laws and regulations. That report is an integral part of an audit performed in accordance with *Government Auditing Standards* and should be read in conjunction with this report.

Individuals relying on this report must have an adequate understanding of Part 31 of the FAR. Therefore, this report is intended solely for the information of management and government agencies for use under contracts governed by the aforementioned regulations. It is not intended to be and should not be used by anyone other than the aforementioned parties nor should it be used for any other purpose.

Clary Government Services, LLC

Chicago, Illinois March 28, 2019

Buildings and Infrastructure Americas Design A Business Unit of Jacobs Engineering Group Inc. Summary of At-Office and At-Site Rates For the Fiscal Year Ended September 28, 2018

The At-Office and At-Site rates relative to the audited Fringe Benefit Expense and General & Administrative Expense Statements were computed in accordance with Part 31 of the Federal Acquisition Regulation (FAR).

Buildings and Infrastructure Americas Design	Indirect Rates
At-Office	
	Direct Labor Base
At-Site General & Administrative Rate	60.23%
Use & Occupancy Rate	21.74%
Fringe Benefit Rate	27.80%
Combined Rate	109.77%
At-Site	
At-Site General & Administrative Rate	60.23%
Fringe Benefit Rate	27.80%
Combined Rate	88.03%

See the following statements for detailed computations of the above Fringe Benefit Expense and General & Administrative Expense rates and the applicable explanatory notes.

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Buildings and Infrastructure Americas Design A Business Unit of Jacobs Engineering Group Inc. Statement of Fringe Benefit Expense For the Fiscal Year Ended September 28, 2018

	 DESIGN DIRECT NGE BENEFIT EXPENSE (Note 6)		
COSTS, NET OF ADJUSTMENTS			
PAID TIME OFF	\$ 31,040,225		
HOLIDAY	9,077,243		
BEREAVEMENT LEAVE	853,572		
FICA	27,614,875		
SUI	1,621,951		
FUI	161,853		
THRIFT PLAN	8,173,705		
GROUP INSURANCE	18,879,093		
WORKERS' COMPENSATION	572,980		
GENERAL LIABILITY	6,210,076		
EMPLOYEE ASSISTANCE PLAN	101,813		
TOTAL ALLOCATED FRINGE BENEFITS	\$ 104,307,386		
TOTAL FRINGE LABOR BASE	\$ 375,159,619		
COMPANY-WIDE FRINGE BENEFIT RATE	 27.80%		

The accompanying notes are an integral part of this statement.

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NOTIRECT LABOR		INC	TOTAL FAI UNALLOWAB COSTS COST ADJUSTMEN (Note 2)		LLOWABLE COST JUSTMENTS	LE NET		T CLAIMED &A COSTS	GENERAL & ADMINISTRATIVE RATE APPLIED TO AT-SITE & AT-OFFICE PROJECTS		USE & OCCUPANCY RATE (AT- OFFICE)	
OFFICE OCCUMANCY EXPENSES \$ 45,244,285 \$ (143,00) \$ 45,110,098 \$ 2,5,887,561 \$\$ 39,023,027 \$ PERSONAL COMPLTER AND NETWORK SERVICES 17,472,383 (19) \$ 17,472,244 262,747 \$17,209,497 \$PERSONAL COMPLTER AND NETWORK SERVICES 17,472,383 (19) \$ 17,472,244 262,747 \$17,209,497 \$PERSONA PRESTRUCES DOCK AMORTZATION \$5,002,349 \$1,1304,576 \$7 3,727,773 \$3,727,773 \$727,773 \$1,000,000	INDIRECT LABOR	s	77,213,042	\$	(1,098,340)	4	s	76,114,702	s	76,114,702	Š	
FRINCE BENETITS 21,694,808 21,694,808 21,604,808	INDIRECT EXPENSES											
PERSONAL COMPLITER AND NETWORK SERVICES 1/472,383 (1.99)	OFFICE OCCUPANCY EXPENSES	\$	45,254,285	S	(143,300)		\$	45,110,985	2	5,487,363	\$	39,623,622
PENSION & RESTRICTED STOCK AMORTIZATION 8,314,758 7 3,727,773 3,727,773 3,727,773	FRINGE BENEFITS		21,694,808		-	5		21,694,808		21,694,808		•
TRAVEL & BUSNESS NEALS	PERSONAL COMPUTER AND NETWORK SERVICES		17,472,383		(139)			17,472,244		262,747		17,209,497
EMPLOYEE TRANSMO & DUES 2,000,076 (413,772) 8 1,586,304	PENSION & RESTRICTED STOCK AMORTIZATION				•			B,314,758		8,314,758		•
OUTSIDE SERVICES 1,009,965 (499,40) 9 609,965 544,371 45,94 BUSINESS LICENS & TAXES 2,833,418 (988,888) 10 1,864,550 986,469 878,681 VEHICLE EXPENSES 1,047,162 (29,499) 1,017,663 151,243 86,420 OFFICE AND OTHER SUPPLIES 734,291 (117,759) 617,172 4,035 612,237 RECRUITING & RELOCATION 184,152 (14,071) 170,081 - 170,081 POSTAGE & REGIGIT 133,038 (388) 812,180 82,18 89,218 - FUBLIC RELATIONS & ADVERTISING 55,695 (47,023) 12 8,672 8,672 9,003,000 SUBTOTAL INDIRECT EXPENSES \$ 187,560,460 \$ (6,945,992) \$ 180,614,468 \$ 112,076,538 \$ 603,37,900 OTHER INDIRECT EXPENSES \$ 13,539,655 \$ (699,646) 14 \$ 12,950,010 \$ 12,950,010 \$. SEVERANCE & SEPARATION PAYMENTS 97,746,551 - 15 4,746,551 4,746,551 - 16 795,789 795,789												•
BUSINCES LICENSE A TAXES 2,83,3.18 (988,888) 10 1,864,550 996,469 875,081 VEHICLE EXPENSES 1,047,162 (29,499) (11,1759) (61,1712 4,935 61,2237 RECRUITING A RELOCATION 342,095 (19,246) 11 302,849 273,751 27,998 REPRODUCTION 184,122 (14,071) 170,081 POSTAGE REPRICHT 133,038 (538) 132,500 132,500 TEMPORARY STAFF 89,218 12,800 132,500 PUBLIC RELATIONS & ADVERTISING 5,5655 (47,023) 12 8,672 8,672 FURIL STATE STAFF 84,049,525 (2,295,001) 13 1,780,224 874,224 FOR DIVISION 1,404,525 (2,295,001) 14 1,295,0010 14 1,295,0010 14 FOR DIVISION 1,404,525 (2,295,001) 1,295,0010 1,295,0												• .
VEHICLE EUPENES										•		
OFFICE AND OTHER SUPPLIES 734,931 (117,759) 617,172 4,935 612,237 RECRUTING & RELOCATION 342,095 39,246 11 302,849 275,751 27,098 REPRODUCTION 184,152 (14,071) 170,081						10				•		•
RECRUITING & RELOCATION												
REPRODUCTION			•			11		-		•		
POSTAGE & PREIGHT 133,038 (538) 132,500 132,500 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			•							· ·		
TEMPORAY STAFF 89.218 89			•									170,001
PUBLIC RELATIONS & ADVERTISING 55,695 (47,023) 12 8,672 86,722 874,924 905,300			•		(555)					-		-
OTHER SUBTOTAL INDIRECT EXPENSES 4,049,525 S 187,569,460 (2,269,301) S (6,945,992) 13 1,780,224 S 180,614,465 874,924 S 120,276,538 905,300 S 60,337,930 OTHER INDIRECT EXPENSES PROJECT SUPPORT SERVICES \$ 13,639,656 S 13,639,656 \$ (689,646) S (689,646) 14 \$ 12,950,010 S 12,950,010 S 174,6551 \$ - BONUS PAYMENTS 4,746,551 S EVERANCE & SEPARATION PAYMENTS 795,789 795,789 - 16 795,789 231,012 795,789 231,012 - 16 795,789 795,789 795,789 795,789 795,789 795,789 - 16 795,789 795,789 795,789 795,789 795,789 795,789 795,789 795,789 818,723,362 \$ 18,723,362 \$ 18,723,362 \$ 18,723,362 \$ 18,723,362 \$ 18,723,362 \$ 18,723,362 \$ 18,723,362 \$ 18,723,362 \$ 18,723,362 \$ 18,723,362 \$ 18,723,362 \$ 18,723,362 \$ 18,723,362 \$ 18,723,362 <td< td=""><td></td><td></td><td>-</td><td></td><td>(47,023)</td><td>12</td><td></td><td></td><td></td><td></td><td></td><td>-</td></td<>			-		(47,023)	12						-
SUBTOTAL INDIRECT EXPENSES \$ 187,560,460 \$ (6,945,992) \$ 180,614,468 \$ 120,276,538 \$ 60,337,930 OTHER INDIRECT EXPENSES PROJECT SUPPORT SERVICES \$ 13,639,656 \$ (689,646) 14 \$ 12,950,010 \$ 12,950,010 \$ - 0.000 \$ 0			•			13		-		•		905,300
PROJECT SUPPORT SERVICES 13,639,656 \$ (689,646) 14 \$ 12,950,010 \$ 12,950,010 \$ 1.000 \$ 1.0	SUBTOTAL INDIRECT EXPENSES	\$	187,560,460	\$	(6,945,992)		\$	180,614,468	S	120,276,538	5	60,337,930
BONUS PAYMENTS 4,746,551 - 15 4,746,551 4,746,551 - 58EVERANCE & SEPARATION PAYMENTS 795,789 - 16 795,789 795,789 - 231,012 231,012 231,012 - 231,012 231,012 - 231,012 231,012 - 231,012 231,012 - 231,012 231,012 - 231,012 231,012 - 231,012 231,012 - 231,012 - 231,012 231,012 231,012 - 231,012 231,012 231,012 - 231,012 231,012 231,012 - 231,012 231,012 231,012 231,012 - 231,012 231,	OTHER INDIRECT EXPENSES											
SEVERANCE & SEPARATION PAYMENTS 795,789 - 16 795,789 795,789 - 211,012 231,012 231,012 - 231,012 231,012 - 231,012	PROJECT SUPPORT SERVICES	S	13,639,656	\$	(689,646)	14	\$	12,950,010	\$	12,950,010	\$	-
EMPLOYEE STOCK PURCHASE PLAN 231,012 231,012 231,012 SUBTOTAL OTHER INDIRECT EXPENSES \$ 19,413,008 \$ (689,646) \$ 18,723,362 \$ 18,723,362 \$ ALLOCATIONS CORPORATE ALLOCATIONS 96,708,784 (9,759,493) 3,4 86,949,291 \$ 86,949,291 \$ TOTAL G&A EXPENSES \$ 96,708,784 \$ (9,759,493) \$ 86,949,291 \$ 86,949,291 \$ TOTAL G&A EXPENSES \$ 303,682,252 \$ (17,395,131) \$ 286,287,121 \$ 225,949,191 \$ 60,337,930 \$ DIRECT LABOR (TOTAL AND AT-OFFICE) \$ 375,159,619 \$ 277,516,481 \$ BUILDINGS & INFRASTRUCTURE AMERICAS DESIGN INDIRECT COST RATES 60,2394 27.80% 27.80% 27.80%	BONUS PAYMENTS		4,746,551		•	15		4,746,551		4,746,551		-
SUBTOTAL OTHER INDIRECT EXPENSES \$ 19,413,008 \$ (689,646) \$ 18,723,362 \$ 18,723,362 \$ ALLOCATIONS CORPORATE ALLOCATIONS \$ 96,708,784 \$ (9,759,493) \$ 3,4 \$ 86,949,291 \$ 86,949,291 \$ SUBTOTAL ALLOCATIONS \$ 96,708,784 \$ (9,759,493) \$ 3,4 \$ 86,949,291 \$ 5 86,949,291 \$ TOTAL G&A EXPENSES \$ 303,682,252 \$ (17,395,131) \$ 286,287,121 \$ 225,949,191 \$ 60,337,930 \$ DIRECT LABOR (TOTAL AND AT-OFFICE) \$ 375,159,619 \$ 277,516,481 \$ BUILDINGS & INFRASTRUCTURE AMERICAS DESIGN INDIRECT COST RATES \$ 60,23% \$ 21,74% \$ COMPANY-WIDE FRINGE BENEFIT RATE \$ 27.80% \$ 27.80% \$ AT-SITE GENERAL & ADMINISTRATIVE RATE (Using Direct Labor \$'5 as the Base) \$ 88.03%	SEVERANCE & SEPARATION PAYMENTS		795,789		-	16		795,789		795,789		-
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The accompanying notes are an integral part of this statement

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1. Business and Basis of Presentation

The financial information presented in the accompanying Statements of Fringe Benefit Expense and General & Administrative Expense includes the expenses of Buildings and Infrastructure Americas (BIA) Design and Jacobs Civil Consultants Inc. (collectively the Company) for the fiscal year ended September 28, 2018. Jacobs Civil Consultants Inc. was formerly known as Sverdrup & Parcel Consultants, Inc. The Fiscal Year (FY) 2018 company-wide indirect rates presented herein include the operations and results for BIA Design (the Company or BIA Design).

The Company is a business unit of Jacobs Engineering Group Inc. (the Parent Company), and the Parent Company is a publicly traded company on the NYSE. BIA Design provides strategic planning, architecture, engineering, construction management, program management, and design-build services for a diverse client base encompassing both public and private sectors. Major markets include defense, government, healthcare, research and education and correctional facilities, office and corporate headquarters, aviation facilities, mission-critical facilities, municipal and civic facilities, retail, mixed-use and commercial centers and recreation complexes.

The Parent Company was originally incorporated in 1957, and its clients include federal, state, local, and foreign government agencies, as well as numerous commercial entities. Revenues are derived from billings for professional services: project services; process; scientific and systems consulting services; operations and maintenance services; and construction services.

2. Basis of Accounting and Description of Accounting Systems

The Company's policy is to prepare the accompanying Statements of Fringe Benefit Expense and General & Administrative Expense on the basis of accounting practices prescribed by Chapter 1, Part 31 and Chapter 99 of the Federal Acquisition Regulation (FAR). The aforementioned statements are not intended to present the financial position or the results of operations of the Company in conformity with accounting principles generally accepted in the United States. The Company maintains its books of accounts using the Accrual Method of accounting.

The Company uses a multi-step process to identify and quantify unallowable costs as defined in FAR Part 31. First, the Company identifies certain expense accounts, expenditure types in the general ledger and certain indirect projects as totally unallowable (e.g., interest expense, bad debts expense, etc.). For certain other expense accounts that are likely to contain unallowable costs, the Company either reviews all of the significant transactions in the account or it reviews a sample of the transactions in the account. For those expense accounts that are sampled, the Company extrapolates the results of the sample to the related expense account population. The larger unallowable amounts generated by this process are discussed below. In addition, the Company voluntarily excludes certain other costs from the indirect cost pools, and it uses estimates to determine the amount of certain other unallowable costs.

2. Basis of Accounting and Description of Accounting Systems (continued)

The Company maintains a job cost accounting system based on actual costs for recording and accumulating costs incurred under its contracts. Each project is assigned a unique job number so that costs may be properly segregated and accumulated in the Company's job cost accounting system. Employee labor costs are charged to jobs using the employee's actual hourly pay rate at the time that the labor is incurred. For salaried employees, their actual hourly pay rate for job costing purposes is based on their annual salary divided by 2,080 hours per year.

Direct and Indirect Costs - Costs are specifically identified and recorded separately in the formal financial accounting records as Direct Costs and Indirect Costs as established in accordance with the Company's disclosed practices. Direct costs are those costs that can be specifically identified to a customer project, work activity or final cost objective. Indirect costs are those costs that cannot be specifically identified with a single customer project, direct work activity or final cost objective. Contract/ Purchased labor is treated as Other Direct Costs (ODC's).

Nonsalary Direct Project Costs sometimes referred to as ODC's are consistently charged to all projects regardless of the recoverability from the customer.

Paid Time Off – The Company accrues Paid Time Off (PTO) based on the years of service for each employee. PTO may be used by employees for a variety of reasons, including (but not limited to) vacation, illness, or accident, bereavement or personal time off. All requested PTO is subject to supervisory approval.

PTO benefits are paid based on the employee's base pay rate at the time that the absence occurs and does not include any special forms of compensation such as incentives, commissions, bonuses or shift differentials. Employees receive pay for all accrued but unused PTO hours upon separation from the Company.

Overtime Compensation - The Company's policy on pay practices and overtime pay eligibility compliance is established to appropriately pay employees in accordance with their classifications as defined by the Fair Labor Standards Act, 29 C.F.R. § 541.602 (FLSA). This policy discusses federal regulations regarding overtime. State laws may be more restrictive than federal laws. Local Human Resources representatives provide details regarding regulations for specific states. In certain circumstances, exempt employees may receive additional compensation for work in excess of their regularly scheduled hours. The employee's immediate supervisor is responsible for authorizing and supervising any overtime work performed.

Uncompensated Overtime — The Company's policy regarding overtime is to compensate NONEXEMPT employees for authorized additional hours of work in accordance with the FLSA. BIA Design's cost accounting practice is that salaried (Exempt) employees' record all hours worked. EXEMPT employees now record all hours worked including any authorized uncompensated overtime. Each hour recorded, either compensated or uncompensated, is charged to cost objectives at the employee's actual rate of pay based on a standard 40 hour workweek. The variance between the employee's pay rate for the week and the value of the hours charged at the actual labor rate was credited to the At-Site G&A pool resulting in a credit of approximately \$279,915.

Project Support Functions - BIA Design also treats certain activities related to its Manager of Projects, Project Controls and Contracts Management functions as indirect, which is consistent with the Company's disclosed practice.

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2. Basis of Accounting and Description of Accounting Systems (continued)

Depreciation - Property, equipment and improvements are recorded at cost. Depreciation and amortization is computed primarily by using the straight-line method over the estimated useful lives of the assets. The cost of leasehold improvements and equipment is amortized using the straight-line method over the lesser of the estimated useful life of the asset or the remaining term of the related lease. Estimated useful lives range from 20 to 40 years for buildings, from 3 to 15 years for equipment and from 3 to 7 years for computers and software.

The Company's method of estimating costs for pricing purposes during the proposal process is consistent with the accumulation and reporting of costs under its job cost accounting system.

The accompanying Statement of General & Administrative Expenses includes Jacobs' Residual Pool that was allocated using the three-factor formula (i.e., average of revenues, payroll \$'s and net fixed assets).

3. Allocation Methods

The Company has established two indirect rates: (1) an At-Office Rate that is applied to work performed in Jacobs-provided facilities, and (2) an At-Site Rate that is applied to work performed at non-Jacobs (i.e., customer) provided facilities. The allocation base for the At-Site G&A rate includes all Professional Services and all Field Staff Direct Labor including any labor premiums. The allocation base for the At-Office G&A rate includes At-Office Professional Services and At-Office Field Staff Direct Labor including any labor premiums. Contract labor is not included in the direct labor base but is instead recorded as Other Direct Costs (ODC's).

The Company uses the same fringe benefit rate for both its At-Office and At-Site direct labor and allocates fringe benefit expenses based upon total payroll dollars (including premiums and excluding incentive compensation).

The Company receives an allocation of costs from the Parent Company that includes salaries, related fringe benefits and general and administrative expenses. The G&A expenses include the costs of certain executive management, legal, accounting, treasury, information systems, human resources, health and safety, and other corporate functions. These costs are allocated to the Company based upon a three-tier method, which allocates costs that are: (1) directly attributable to the Company; (2) separately associated with the Company that are allocated based upon appropriate bases that use direct labor dollars, total payroll dollars, revenues, or a combination thereof; and, (3) amounts remaining after the first two tiers, allocated based upon a two-factor formula that is computed using Professional Service and Field Staff payroll dollars and revenues.

The allocations of the Parent Company's Corporate Home Office costs have been properly adjusted to reflect FAR Part 31 disallowances. These amounts were determined by the multi-step process described above in Note 2. The net allowable costs for each of the Corporate Home Office cost pools are then allocated using the methodologies described above.

4. Executive Compensation

The Company performed a compensation analysis to review and evaluate its executive and employee compensation. The adjustment to indirect labor includes an adjustment of \$1,098,340 for excess executive compensation based on application of a weighted average benchmark of \$521,750. As part of this analysis, senior executives and employees were also benchmarked against surveys in which the Parent Company participated. The overall result of the compensation analysis demonstrated the reasonableness of the Company's compensation with the exception of the aforementioned disallowance. In addition, an excess compensation disallowance of \$3,928,162, is reflected as a part of the total Corporate Office Allocation based on the weighted average benchmark disallowance in accordance with FAR 31.205-6.

5. Fringe Benefits

The Parent Company calculates a Company-wide fringe benefit rate that is applied to its US business units and wholly-owned subsidiaries. Fringe benefit costs include an adjustment of the indirect fringe benefit expense recorded in the general ledger at the standard fringe rate of 31.5% to the FY 2018 actual fringe rate of 27.80%.

6. Restricted Stock and Pension Plan

The Parent company maintains a restricted stock plan as part of compensation in accordance with FAR 31.205-6. The Company's share of the restricted stock plan included in the G&A Pool is \$1,564,169 and \$133,574 included in Corporate Allocations. The Company also provides, for certain employees from previously-acquired companies, a combined-defined benefit pension plan that meets the requirements of FAR 31.205-6(j). The Company's share of the pension plan included in the G&A Pool is \$6,750,589 as well as \$96,194 included in Corporate Allocations.

7. Travel & Business Meals

Based on a review of travel and related costs, BIA Design disallowed \$1,304,576 in accordance with FAR 31.205-46.

8. Employee Training & Dues

The adjustment amount of \$433,772 represents dues that are unallowable in accordance with FAR 31.205-14.

9. Outside Services

The adjustment of \$459,540 represents professional service costs disallowed in accordance with FAR 31.205-33.

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10. Business License & Taxes

The adjustment of \$988,888 represents taxes disallowed in accordance with FAR 31.201-4.

11. Recruiting & Relocation

The relocation adjustment of \$39,246 represents employee relocation expenses that are considered unallowable in accordance with FAR 31.205-35.

12. Public Relations & Advertising

The unallowable cost adjustment of \$47,023 represents unallowable public relations and advertising costs per FAR 31.205-1.

13. Other

Included in the other adjustment of \$2,269,301 are the following FY 208 actual unallowable costs:

Internal Promotion (FAR 31.2 various)	\$ 1,075,424
External Promotion Meals, Entertainment & Other (FAR 31.2 various)	\$ 616,638
Contributions (FAR 31.205-8)	\$ 383,176
Goodwill (FAR 31.205-49)	<u>\$ 50,004</u>
	\$ 2,125,242*

^{*}The remaining balance of the disallowed amount is determined using the methodology discussed in Note 2.

14. Project Support Services

Included in the other adjustment of \$689,646 are the following FY 2018 actual unallowable costs:

Travel & Related Cost (FAR 31.205-46)	\$236,121
Internal & External Promotion & Entertainment (31.2 Various)	\$97,444
Bid & Proposal (FAR 31.205-18)	<u>\$57,029</u>
	\$390 594*

^{*}The remaining balance of the disallowed amount is determined using the methodology discussed in Note 2.

15. Incentive Compensation - Bonuses

All awards are paid in full within 90 days of the close of the applicable fiscal year, except (i) Executive incentives that have not been certified by the Compensation Committee of the Board of Directors as required, which are paid as soon as practicable following such certification and (ii) those bonuses deferred pursuant to the terms of the Company's sponsored deferred compensation plan for which a Participant is eligible, which are also paid pursuant to the terms of the plan.

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16. Severance & Separation Payments

The Company's Voluntary Separation Program (the Program) for leadership-level participants in the Management Incentive Plan resulted in \$42,411 of costs in FY 2018. The Program had specific eligibility requirements included in the severance package. The objectives of the Program were to improve the Company's cost structure and streamline leadership levels, while maintaining business performance and a strong leadership bench.

17. Direct Cost Accounts include the following but are not limited to:

The major types of other direct costs include but are not limited to:

Travel, subsistence and relocation
Subcontracts
Contract specific training and employee development
Temporary, contract and other purchased labor/services
Contract specific equipment rental/leases
Consultants Telephone/fax/communications
Shipping charges & postage
Outside/specialty reproduction costs
Craft labor fringe costs
Special taxes

The Company's internal controls include segregation of duties between accounts payable job functions, performance of a pre-audit on certain accounts/expenditure types, accounts payable coding training and control of general and administrative costs through a rigorous budget vs. actual review process to avert the inclusion of direct costs in the indirect cost pool.

18. Related Party Transactions

No adjustments or disclosures are required per FAR 31.205-26(e) or FAR 31.205-36(b)(3).

19. Acquisition of CH2M HILL

On December 15, 2017, Jacobs' completed the acquisition of CH2M HILL Companies, Ltd. (CH2M), an international provider of engineering, construction, and technical services, by acquiring 100% of the outstanding shares of CH2M's common and preferred stock. The combined Companies had annual revenues of approximately \$15 billion in FY 2018. The acquisition enhances Jacobs' position in the infrastructure, water and transportation markets among other markets. Jacobs and CH2M operated largely as separate, stand-alone companies during FY 2018. That is, each of the Companies' respective cost accounting practices and related CAS Disclosure Statements remained in effect during FY 2018. The combination of Jacobs and CH2M already has and will continue to yield significant operational and administrative efficiencies and savings through reductions in personnel, the closure and consolidation of redundant offices, etc.

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19. Acquisition of CH2M HILL (continued)

As a result of the acquisition, CH2M is now a wholly-owned subsidiary of Jacobs. The development of the new Buildings and Infrastructure Americas (BIA) operating model and organization structure has been finalized. Management has completed the process of harmonizing the cost accounting practices and finalizing the FY 2019 indirect rate structure. As of September 29, 2018, the CH2M staff and projects are integrated into Jacobs' project accounting systems and indirect rate structure; allowing all of the Jacobs BIA employees to charge projects contracted by either firm. The final step of the accounting consolidation occurred on January 1, 2019 when all CH2M legacy personnel payroll was transferred to Jacobs' payroll system.

20. Restructuring and Integration Costs

In connection with the acquisition of CH2M, both Jacobs and CH2M incurred costs to restructure and integrate their operations and businesses. These costs include severance, office lease termination costs, office relocation and closure costs, certain consulting costs, etc. which Jacobs analyzed to determine the allowable costs under FAR Part 31. Accordingly, the Company incurred restructuring and integration costs in FY 2018, and it included the allowable portion of these costs, \$5.3M, in its FY 2018 indirect rates. Similarly, the Company received allocations of restructuring and integration costs from the Jacobs Corporate Home Office in FY 2018 of \$6.1M. The unallowable costs associated with the acquisition have been properly removed from the Company's claimed costs. For US Department of Defense (DoD) contracting purposes only, the Company will submit a proposal to the Federal Government for certain Restructuring related costs and then recover those costs on Federal DoD contracts in accordance with the provisions of DFARS 231.205-70.

21. Agreement to Sell Energy, Chemicals and Resources Business

Jacobs announced that it has entered into an agreement to sell its Energy, Chemicals and Resources (ECR) business to WorleyParsons·Limited for \$3.3 billion. Subject to the satisfaction of the remaining conditions to closing, Jacobs will then, be focused solely on its two higher growth, higher margin lines of business — Aerospace, Technology & Nuclear (ATN) and Buildings, Infrastructure & Advanced Facilities (BIAF).

22. Management's Evaluation of Subsequent Events

Management has considered and evaluated significant subsequent events through March 28, 2019 and there were no significant events that would have a material effect on the FY 2018 indirect rates other than the agreement to sell its Energy, Chemicals and Resources Business as described above.

Cleary Government Services, LLC

REPORT OF INDEPENDENT PUBLIC ACCOUNTANT

To: Board of Directors

Jacobs Engineering Group Inc.

Re: Internal Control Structure and Compliance with Applicable Laws and Regulations

We have audited the Summary of At-Office and At-Site Rates, Statement of Fringe Benefit Expense and Statement of General & Administrative Expense (Schedules of the Indirect Cost Rates) of Buildings and Infrastructure Americas (BIA) Design, a business unit of Jacobs Engineering Group Inc., calculated in accordance with the Federal Acquisition Regulation (FAR) Part 31 for the twelve months ended September 28, 2018, and we have issued our report thereon dated March 28, 2019. These schedules are the responsibility of BIA Design's management.

We conducted our audit in accordance with the auditing standards generally accepted in the United States and also the standards applicable to financial audits contained in *Government Auditing Standards* (July 2011 Revision), issued by the Comptroller General of the United States. Those standards require that we plan and perform the audit to obtain reasonable assurance about whether the aforementioned Schedules are free of material misstatement.

Internal Controls Over Financial Reporting

The management of BIA Design is responsible for establishing and maintaining an internal control structure and for maintaining internal control over financial reporting and its indirect rate calculations. In fulfilling this responsibility, estimates and judgments by management are required to assess the expected benefits and related costs of internal control structure policies and procedures. The objectives of an internal control structure are to provide management with reasonable, but not absolute, assurance that assets are safeguarded against loss from unauthorized use or disposition, and that transactions are executed in accordance with management's authorization and recorded properly to permit the preparation of the aforementioned schedules in accordance with applicable regulations including Part 31 of the FAR. Because of the inherent limitations in any internal control structure, errors or irregularities nevertheless may occur and not be detected. Also, projection of any evaluation of the structure to future periods is subject to the risk that procedures may become inadequate because of changes in conditions or that the effectiveness of the design, implementation and/or operation of policies and procedures may deteriorate.

In planning and performing our audit of Schedules of the Indirect Cost Rates, we obtained a general understanding of BIA Design's internal control structure. That is, we obtained a general understanding of the design of the policies and procedures relevant to the aforementioned Schedules and whether these policies and procedures were in operation. Specifically, we obtained a general understanding of the controls over payroll processing, time reporting, cash disbursements, expense reporting and identification of unallowable costs. We assessed control risk in order to determine the nature and extent of our testing procedures for the sole purpose of expressing our opinion on the aforementioned Schedules but not for the purpose of expressing an opinion on the effectiveness of BIA Design's internal controls over financial reporting and the aforementioned Schedules. Accordingly, we do not express an opinion on the effectiveness of BIA Design's internal controls over financial reporting. Further, in our assessment of

Internal Control Over Financial Reporting - continued

control risk, we concluded that substantive testing of the aforementioned Schedules was appropriate, and consequently, our compliance testing of BIA Design's internal control structure was very limited in its nature and scope.

The AICPA's Statement on Auditing Standards No. 115 states that a deficiency in internal control exists when the design or operation of an internal control does not allow management or employees, in the normal course of performing their assigned functions, to prevent or detect and correct misstatements on a timely basis.

A material weakness is a deficiency, or combination of deficiencies, in internal control such that there is a reasonable possibility that a material misstatement in the Schedules of the Indirect Cost Rates will not be prevented or detected and corrected on a timely basis. A significant deficiency is a deficiency, or combination of control deficiencies, in internal control that is less severe than a material weakness, yet important enough to warrant the attention of management.

Our consideration of the internal controls over financial reporting was for the limited purpose described above and would not necessarily identify all deficiencies in internal control that might be material weaknesses or significant deficiencies. Nonetheless, we did not identify any deficiencies in the internal controls over BIA Design's financial reporting that we consider to be material weaknesses or significant deficiencies, as defined above.

Compliance with Applicable Laws and Regulations

Cleany Government Services, LLC

Compliance with laws, regulations and contract terms applicable to BIA Design is the responsibility of BIA Design's management. As part of obtaining reasonable assurance about whether the aforementioned Schedules are free of material misstatement, we performed tests of BIA Design's compliance with certain provisions of laws, regulations and contracts; noncompliance with which could have a direct and material effect on the calculation of the actual indirect rates. However, the objective of our audit of the Schedules of the Indirect Cost Rates was not to provide an opinion on overall compliance with those provisions. Accordingly, we do not express such an opinion. Nonetheless, the results of our tests did not disclose any instances of noncompliance that are required to be reported under *Government Auditing Standards*.

This report is intended solely for the information of BIA Design's management and those government agencies with whom BIA Design has contracted. It is not intended to be and should not be used by anyone other than the aforementioned parties nor should it be used for any other purpose.

Chicago, Illinois March 28, 2019

Summary of At-Office and At-Site Rates and Statements of Fringe Benefit Expense and General & Administrative Expense in Accordance with the Federal Acquisition Regulation

BUILDINGS & INFRASTRUCTURE AMERICAS PROJECT MANAGEMENT/CONSTRUCTION MANAGEMENT (PMCM)

A Business Unit of Jacobs Engineering Group Inc.

For the Fiscal Year Ended September 28, 2018 With Report of Independent Auditors

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Summary of At-Office and At-Site Rates and Statements of Fringe Benefit Expense and General & Administrative Expense in Accordance with the Federal Acquisition Regulation

BUILDINGS & INFRASTRUCTURE AMERICAS PROJECT MANAGEMENT/CONSTRUCTION MANAGEMENT (PMCM)

A Business Unit of Jacobs Engineering Group Inc.

For the Fiscal Year Ended September 28, 2018

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Cleary Government Services, LLC

REPORT OF INDEPENDENT PUBLIC ACCOUNTANT

To: Board of Directors of Jacobs Engineering Group Inc.

Re: Indirect Cost Rates Prepared in Accordance with Part 31 of the Federal Acquisition Regulation

We have audited the accompanying Summary of At-Office and At-Site Rates, Statement of Fringe Benefit Expense and Statement of General & Administrative Expense (Schedules of the Indirect Cost Rates) of Buildings & Infrastructure Americas Project Management/Construction Management (BIA PMCM), a business unit of Jacobs Engineering Group Inc., for the twelve months ended September 28, 2018 prepared in accordance with Title 48, Code of Federal Regulations, Part 31 of the Federal Acquisition Regulation (FAR). BIA PMCM is a wholly-owned business unit of Jacobs Engineering Group Inc. These schedules are the responsibility of BIA PMCM's management. Our responsibility is to express an opinion on these schedules based on our audit.

We conducted our audit in accordance with auditing standards generally accepted in the United States and also the standards applicable to financial audits contained in *Government Auditing Standards* (July 2011 Revision), issued by the Comptroller General of the United States. Those standards require that we plan and perform the audit to obtain reasonable assurance about whether the Schedules of the Indirect Cost Rates are free of material misstatement. An audit includes reviewing, on a test basis, evidence supporting the amounts and disclosures in the schedules and performing such other procedures as we considered necessary in the circumstances. Our audit also included assessing the accounting principles used and the significant estimates made by management, as well as evaluating the overall schedule presentation. We believe that our audit provides a reasonable basis for our opinion.

The aforementioned Schedules of the Indirect Cost Rates were prepared on a basis of accounting practices as prescribed by Part 31 of the FAR as discussed in Note 2, and are not intended to be a presentation in conformity with accounting principles generally accepted in the United States.

In our opinion, the Schedules referred to above present fairly, in all material respects, the Indirect Cost Rates of BIA PMCM for the twelve months ended September 28, 2018, calculated in accordance with Part 31 of the FAR.

In accordance with the *Government Auditing Standards*, we have also issued our report dated March 28, 2019 on our consideration of BIA PMCM's internal controls over financial reporting and our test of its compliance with applicable laws and regulations. That report is an integral part of an audit performed in accordance with *Government Auditing Standards* and should be read in conjunction with this report.

Individuals relying on this report must have an adequate understanding of Part 31 of the FAR. Therefore, this report is intended solely for the information of management and government agencies for use under contracts governed by the aforementioned regulations. It is not intended to be and should not be used by anyone other than the aforementioned parties nor should it be used for any other purpose.

Clary Government Services, LLC

Chicago, Illinois March 28, 2019

BUILDINGS & INFRASTRUCTURE AMERICAS Project Management/Construction Management (PMCM)

A Business Unit of Jacobs Engineering Group Inc. Summary of At-Office and At-Site Rates For the Fiscal Year Ended September 28, 2018

The At-Office and At-Site rates relative to the audited Fringe Benefit Expense and General & Administrative Expense Statements were computed in accordance with Part 31 of the Federal Acquisition Regulation (FAR).

At-Site General & Administrative Rate Use & Occupancy Rate Pringe Benefit Rate Combined Rate At-Site At-Site General & Administrative Rate Fringe Benefit Rate 27.80% 38.16% 88.27%	Buildings & Infrastructure Americas PMCM	Indirect Rates					
At-Site General & Administrative Rate Use & Occupancy Rate Pringe Benefit Rate Combined Rate At-Site At-Site General & Administrative Rate Fringe Benefit Rate 27.80% 38.16% 88.27%	At-Office						
Use & Occupancy Rate 22.31% Fringe Benefit Rate 27.80% Combined Rate 88.27% At-Site 38.16% At-Site General & Administrative Rate 38.16% Fringe Benefit Rate 27.80%		Direct Labor Base					
Fringe Benefit Rate Combined Rate 88.27% At-Site At-Site General & Administrative Rate Fringe Benefit Rate 27.80% 38.16% Fringe Benefit Rate 27.80%	At-Site General & Administrative Rate	38.16%					
Combined Rate At-Site At-Site General & Administrative Rate Fringe Benefit Rate 38.16% 27.80%	Use & Occupancy Rate	22.31%					
At-Site At-Site General & Administrative Rate Fringe Benefit Rate 38.16% 27.80%	Fringe Benefit Rate	27.80%					
At-Site General & Administrative Rate 38.16% Fringe Benefit Rate 27.80%		88.27%					
Fringe Benefit Rate 27.80%	<u>At-Site</u>	,					
	At-Site General & Administrative Rate	38.16%					
Combined Rate	Fringe Benefit Rate	27.80%					
- 05,5078	Combined Rate	65.96%					

See the following statements for detailed computations of the above Fringe Benefit Expense and General & Administrative Expense rates and the applicable explanatory notes.

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INFORMATION ACT AND ALL SIMILAR OTHER LEGISLATION. JACOBS ENGINEERING GROUP INC. REQUESTS WRITTEN NOTICE
BEFORE ANY PUBLIC DISCLOSURE IS MADE.

Buildings & Infrastructure Americas Project Management/Construction Management (PMCM)

A Business Unit of Jacobs Engineering Group Inc. Statement of Fringe Benefit Expense For the Fiscal Year Ended September 28, 2018

	BIA PMCM DIRECT FRINGE BENEFIT EXPENSE (Note 5)			
COSTS, NET OF ADJUSTMENTS				
PAID TIME OFF	\$	7,773,787		
HOLIDAY		2,273,326		
BEREAVEMENT LEAVE		213,770		
FICA		6,915,934		
SUI		406,205		
FUI		40,535		
THRIFT PLAN		2,047,042		
GROUP INSURANCE		4,728,124		
WORKERS' COMPENSATION		143,498		
GENERAL LIABILITY		1,555,266		
EMPLOYEE ASSISTANCE PLAN		25,498		
TOTAL ALLOCATED FRINGE BENEFITS	\$	26,122,985		
TOTAL FRINGE LABOR BASE	\$	93,955,858		
COMPANY-WIDE FRINGE BENEFIT RATE	27.80%			

The accompanying notes are an integral part of this statement.

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BUILDINGS & INFRASTRUCTURE AMERICAS PROJECT MANAGEMENT/CONSTRUCTION MANAGEMENT (PMCM)

A Business Unit of Jacobs Engineering Group Inc. Statement of General & Administrative Expense For the Fiscal Year Ended September 28, 2018

	INC	TOTAL CURRED G&A COSTS	UNA	OTAL FAR ALLOWABLE COST JUSTMENTS (Note 2)	NOTES		T CLAIMED &A COSTS	ADM RATI	ENERAL & INISTRATIVE E APPLIED TO AT-SITE & T-OFFICE PROJECTS	F	USE & CCUPANCY IATE (AT- OFFICE)
INDIRECT LABOR	s	7,451,521	s	(214,542)	4	s	7,236,979	S	7,236,979	s	_
	•	7,451,521	•	(217,572)	•	•	7,230,919	•	1,230,717	. •	•
INDIRECT EXPENSES											
OFFICE OCCUPANCY EXPENSES	-\$	1,970,052	S	(5,784)		S	1,964,268	2	181,615	\$	1,782,653
PERSONAL COMPUTER AND NETWORK SERVICE	S	1,318,372		•	_		1,318,372		9,563		1,308,809
FRINGE BENEFITS PENSION & STOCK AMORTIZATION		2,082,351		•	5		2,082,351		2,082,351		-
- I Communication		906,216		(17(170)	6		906,216		906,216		•
TRAVEL & BUSINESS MEALS EMPLOYEE TRAINING & DUES		569,955		(176,129) (47,716)	7 8		393,826		393,826		•
OUTSIDE SERVICES		131,342 52,878		(22,075)	9		83,626		83,626		12
BUSINESS LICENSE & TAXES		178,073		(22,073)	,		30,803 155,876		30,791		
TEMPORARY STAFF		1,300		(22,197)			1,300		1,300		48,363
OFFICE AND OTHER SUPPLIES		62,852		(20,352)			42,500		1,300		42,500
RECRUITING & RELOCATION		57,019		(28,875)	10		28,144		27,408		736
VEHICLE EXPENSES		53,860		(2,352)			51,508		23,541		27,967
POSTAGE & FREIGHT		11,259		•			11,259		11,259		
REPRODUCTION		4,610		(352)			4,258		•		4,258
OTHER		570,370		(404,299)	11		166,071		88,371		77,700
SUBTOTAL INDIRECT EXPENSES	<u>s</u>	15,423,321	s	(945,183)		s	14,478,138	S	11,185,140	5	3,292,998
OTHER INDIRECT EXPENSES BONUS PAYMENTS SEVERANCE & SEPARATION PAYMENTS EMPLOYEE STOCK PURCHASE PLAN SUBTOTAL OTHER INDIRECT EXPENSES ALLOCATIONS	\$ 	780,283 - 76,075 856,358	\$	<u>:</u>	12 13	S	780,283 - 76,075 856,358	\$	780,283 - 76,075 856,358	\$	· ·
CORPORATE ALLOCATIONS		26,316,231		(2,504,303)	3, 4		23,811,928		23,811,928		_
SUBTOTAL ALLOCATIONS	\$	26,316,231	5	(2,504,303)	•••	Ś	23,811,928	5	23,811,928	\$	
TOTAL G&A EXPENSES	<u>s</u>	42,595,910	<u>s</u>	(3,449,486)	• .	<u>s</u>	39,146,424	<u>s</u>	35,853,426	s	3,292,998
DIRECT LABOR (TOTAL AND AT-OFFICE) WITHOUT	FRIN	GE	-	<u> </u>			·	<u>s</u>	93,955,858	<u>s</u>	14,762,718
BIA PMCM COST RATES			•						38.16%		22.31%
COMPANY-WIDE FRINGE BENEFIT RATE									27.80%		27.80%
AT-SITE GENERAL & ADMINISTRATIVE RATE (Using I	lirect L	abor S's as the Bas	e)						65,96%		
AT-OFFICE GENERAL & ADMINISTRATIVE RATE (Util	ng Dire	ct Labor S's as the	Base)								88.27%

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1. Business and Basis of Presentation

The financial information presented in the accompanying Statements of Fringe Benefit Expense and General & Administrative expense includes the expenses of Buildings and Infrastructure Americas Project Management/Construction Management (the Company or BIA PMCM) for the fiscal year ended September 28, 2018. The Fiscal Year (FY) 2018 company-wide indirect rates presented herein include the operations and results of BIA PMCM.

The Company is a business unit of Jacobs Engineering Group Inc. (the Parent Company), and the Parent Company is a publicly traded company on the NYSE. BIA PMCM provides strategic planning, architecture, engineering, construction management, program management, and design-build services for a diverse client base encompassing both public and private sectors. Major markets include highways, rail, utilities & power, built environment, energy, waste and water, nuclear & defense, architecture, engineering and process industries.

The Parent Company was originally incorporated in 1957, and its clients include federal, state, local, and foreign government agencies, as well as numerous commercial entities. Revenues are derived from billings for professional services: project services; process; scientific and systems consulting services; operations and maintenance services; and construction services.

2. Basis of Accounting and Description of Accounting Systems

The Company's policy is to prepare the accompanying Statements of Fringe Benefit Expense and General & Administrative Expense on the basis of accounting practices prescribed by Chapter 1, Part 31 and Chapter 99 of the Federal Acquisition Regulation (FAR). The above-mentioned statements are not intended to present the financial position or the results of operations of the Company in conformity with accounting principles generally accepted in the United States. The Company maintains its books of accounts using the Accrual Method of accounting.

The Company uses a multi-step process to identify and quantify unallowable costs as defined in FAR Part 31. First, the Company identifies certain expense accounts, expenditure types in the general ledger and certain indirect projects as totally unallowable (e.g., interest expense, bad debts expense, etc.). For certain other expense accounts that are likely to contain unallowable costs, the Company either reviews all of the significant transactions in the account or it reviews a sample of the transactions in the account. For those expense accounts that are sampled, the Company extrapolates the results of the sample to the related expense account population. The larger unallowable amounts generated by this process are discussed below. In addition, the Company voluntarily excludes certain other costs from the indirect cost pools, and it uses estimates to determine the amount of certain other unallowable costs.

2. Basis of Accounting and Description of Accounting Systems (continued)

The Company maintains a job cost accounting system based on actual costs for recording and accumulating costs incurred under its contracts. Each project is assigned a unique job number so that costs may be properly segregated and accumulated in the Company's job cost accounting system. Employee labor costs are charged to jobs using the employee's actual hourly pay rate at the time that the labor is incurred. For salaried employees, their actual hourly pay rate for job costing purposes is based on their annual salary divided by 2,080 hours per year.

Direct and Indirect Costs - Costs are specifically identified and recorded separately in the formal financial accounting records as Direct Costs and Indirect Costs as established in accordance with the Company's disclosed practices. Direct costs are those costs that can be specifically identified to a customer project, work activity or final cost objective. Indirect costs are those costs that cannot be specifically identified with a single customer project, direct work activity or final cost objective. Contract/ Purchased labor is treated as Other Direct Costs (ODC's).

Nonsalary Direct Project Costs sometimes referred to as ODC's are consistently charged to all projects regardless of the recoverability from the customer.

Paid Time Off – The Company accrues Paid Time Off (PTO) based on the years of service for each employee. PTO may be used by employees for a variety of reasons, including (but not limited to) vacation, illness, accident, bereavement or personal time off. All requested PTO is subject to supervisory approval.

PTO benefits are paid based on the employee's base pay rate at the time that the absence occurs and does not include any special forms of compensation such as incentives, commissions, bonuses or shift differentials. Employees receive pay for all accrued but unused PTO hours upon separation from the Company.

Overtime Compensation - The Company's policy on pay practices and overtime pay eligibility compliance is established to appropriately pay employees in accordance with their classifications as defined by the Fair Labor Standards Act, 29 C.F.R. § 541.602 (FLSA). This policy discusses federal regulations regarding overtime. State laws may be more restrictive than federal laws. Local Human Resources representatives provide details regarding regulations for specific states. In certain circumstances, exempt employees may receive additional compensation for work in excess of their regularly scheduled hours. The employee's immediate supervisor is responsible for authorizing and supervising any overtime work performed.

Uncompensated Overtime - The Company's policy regarding overtime is to compensate NONEXEMPT employees for authorized additional hours of work in accordance with the FLSA. BIA PMCM's cost accounting practice is that salaried (EXEMPT) employees' record all hours worked. EXEMPT employees now record all hours worked including any authorized uncompensated overtime. Each hour recorded, either compensated or uncompensated, is charged to cost objectives at the employee's actual rate of pay based on a standard 40 hour workweek. The variance between the employee's pay rate for the week and the value of the hours charged at the actual labor rate was credited to the At-Site G&A pool resulting in a credit of approximately (\$40,511).

Project Support Functions - BIA PMCM also treats certain activities related to its Manager of Projects, Project Controls and Contracts Management functions as indirect, which is consistent with the Company's disclosed practice.

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2. Basis of Accounting and Description of Accounting Systems (continued)

Depreciation - Property, equipment and improvements are recorded at cost. Depreciation and amortization is computed primarily by using the straight-line method over the estimated useful lives of the assets. The cost of leasehold improvements and equipment is amortized using the straight-line method over the lesser of the estimated useful life of the asset or the remaining term of the related lease. Estimated useful lives range from 20 to 40 years for buildings, from 3 to 15 years for equipment and from 3 to 7 years for computers and software.

The Company's method of estimating costs for pricing purposes during the proposal process is consistent with the accumulation and reporting of costs under its job cost accounting system.

The accompanying Statement of General & Administrative Expenses includes Jacobs' Residual Pool allocated using the three-factor formula (i.e., average of revenues, payroll \$'s and net fixed assets).

3. Allocation Methods

The Company has established two indirect rates: (1) an At-Office Rate that is applied to work performed in Jacobs-provided facilities, and (2) an At-Site Rate that is applied to work performed at non-Jacobs (i.e., customer) provided facilities. The allocation base for the At-Site G&A rate includes all Professional Services and all Field Staff Direct Labor including any labor premiums. The allocation base for the At-Office rate includes At-Office Professional Services and At-Office Field Staff Direct Labor including any labor premiums. Contract labor is not included in the direct labor base but is instead recorded as Other Direct Costs (ODC's).

The Company uses the same fringe benefit rate for both its At-Office and At-Site direct labor and allocates fringe benefit expenses based upon total payroll dollars (including premiums and excluding incentive compensation).

The Company receives an allocation of costs from Jacobs' BIA Intermediate Home Office G&A Pool (IHO), and the BIA IHO allocates its costs to BIA PMCM and BIA Design based on Direct Labor Dollars (including premiums, excluding Craft Labor). The BIA IHO is responsible for the overall management and operations of both BIA PMCM and BIA Design, and the BIA IHO's costs primarily salaries' and wages, fringe benefits and allocations from the Jacobs Corporate Home Office.

As noted above, the BIA IHO also receives an allocation of costs from the Parent Company that includes salaries, related fringe benefits and general and administrative expenses. The G&A expenses include the costs of certain corporate executive management, legal, accounting, treasury, information systems, human resources, health and safety, and other corporate functions. These costs are allocated to the BIA IHO based upon a three-tier method, which allocates costs that are: (1) directly attributable to the BIA IHO; (2) separately associated with the BIA IHO that are allocated based upon appropriate bases that use direct labor dollars, total payroll dollars, revenues, or a combination thereof; and, (3) amounts remaining after the first two tiers, allocated based upon a three-factor formula that is computed using total permanent Professional Service and Field Staff payroll dollars, the average net book value of fixed assets, and revenues.

3. Allocation Methods (continued)

The allocations of the BIA IHO and the Parent Company's Corporate Home Office costs have been properly adjusted to reflect FAR Part 31 disallowances. These amounts were determined by the multi-step process described above in Note 2. The net allowable costs for each of the Corporate Home Office cost pools are then allocated using the methodologies described above.

4. Executive Compensation

The Company performed a compensation analysis to review and evaluate its executive and employee compensation. The adjustment to indirect labor includes an adjustment of \$213,906 for excess executive compensation based on application of a weighted average benchmark of \$521,750. As part of this analysis, senior executives and employees were also benchmarked against surveys in which the Parent Company participated. The overall result of the compensation analysis demonstrated the reasonableness of the Company's compensation with the exception of the aforementioned disallowance. In addition, an excess compensation disallowance of \$983,919, is reflected as a part of the total Corporate Office Allocation based on the weighted average benchmark disallowance in accordance with FAR 31.205-6.

Fringe Benefits

The Parent Company calculates a Company-wide fringe benefit rate that is applied to its US business units and wholly-owned subsidiaries. Fringe benefit costs include an adjustment of the indirect fringe benefit expense recorded in the general ledger at the standard fringe rate of 31.5% to the FY 2018 actual fringe rate of 27.80%.

6. Restricted Stock and Pension Plan

The Parent company maintains a restricted stock plan as part of compensation in accordance with FAR 31.205-6. The Company's share of the restricted stock plan included in the G&A Pool is \$210,708 as well as \$33,453 included in Corporate Allocations. The Company also provides, for certain employees from previously-acquired companies, a combined-defined benefit pension plan that meets the requirements of FAR 31.205-6(j). The Company's share of the pension plan included in the G&A Pool is \$695,508 as well as \$24,091 included in Corporate Allocations.

7. Travel & Business Meals

Based on a review of travel and related costs, BIA PMCM disallowed \$176,129 in accordance with FAR 31.205-46.

8. Employee Training & Dues

The unallowable cost adjustment amount of \$47,716 represents dues that are unallowable in accordance with FAR 31.205-14.

9. Outside Services

The unallowable cost adjustment of \$22,075 represents professional service costs disallowed in accordance with FAR 31.205-33.

10. Recruiting & Relocation

The relocation adjustment of \$28,875 represents employee relocation expenses that are considered unallowable in accordance with FAR 31.205-35.

11. Other

Included in the other adjustment of \$404,299 are the following FY 208 actual unallowable costs:

Internal Promotion (FAR 31.2 various)	\$ 76,066
External Promotion Meals, Entertainment & Other (FAR 31.2 various)	\$ 69,981
Contributions (FAR 31.205-8)	<u>\$ 248,070</u>

\$ 394,117*

12. Incentive Compensation - Bonuses

All awards are paid in full within 90 days of the close of the applicable fiscal year, except (i) Executive incentives that have not been certified by the Compensation Committee of the Board of Directors as required, which are paid as soon as practicable following such certification and (ii) those deferred pursuant to the terms of a Company sponsored plan for which a Participant is eligible, which are paid pursuant to the terms of the Plan.

13. Direct Cost Accounts include the following but are not limited to:

The major types of Other Direct Costs include but are not limited to:

Travel, subsistence and relocation
Subcontracts/consultants
Contract specific training and employee development
Temporary, contract and other purchased labor/services
Contract specific supplies
Contract specific equipment rental/leases
Telephone/fax/communications
Shipping charges & postage
Outside/specialty reproduction costs
Craft labor fringe costs
Special taxes

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^{*}The remaining balance of the disallowed amount is determined using the methodology discussed in Note 2.

13. Direct Cost Accounts include the following but are not limited to: (continued)

The Company's internal controls include segregation of duties between accounts payable job functions, performance of a pre-audit on certain accounts/expenditure types, accounts payable coding training and control of general and administrative costs through a rigorous budget vs. actual review process to avert the inclusion of direct costs in the indirect cost pool.

14. Related Party Transactions

No adjustments or disclosures are required per FAR 31.205-26(e) or FAR 31.205-36(b)(3).

15. Acquisition of CH2M HILL

On December 15, 2017, Jacobs' completed the acquisition of CH2M HILL Companies, Ltd. (CH2M), an international provider of engineering, construction, and technical services, by acquiring 100% of the outstanding shares of CH2M's common and preferred stock. The combined Companies had annual revenues of approximately \$15 billion in FY 2018. The acquisition enhances Jacobs' position in the infrastructure, water and transportation markets among other markets. Jacobs and CH2M operated largely as separate, stand-alone companies during FY 2018. That is, each of the Companies' respective cost accounting practices and related CAS Disclosure Statements remained in effect during FY 2018. The combination of Jacobs and CH2M already has and will continue to yield significant operational and administrative efficiencies and savings through reductions in personnel, the closure and consolidation of redundant offices, etc.

As a result of the acquisition, CH2M is now a wholly-owned subsidiary of Jacobs. The development of the new Buildings and Infrastructure Americas (BIA) operating model and organization structure has been finalized. Management has completed the process of harmonizing the cost accounting practices and finalizing the FY 2019 indirect rate structure. As of September 29, 2018, the CH2M staff and projects are integrated into Jacobs' project accounting systems and indirect rate structure; allowing all of the Jacobs BIA employees to charge projects contracted by either firm. The final step of the accounting consolidation occurred on January 1, 2019 when all CH2M legacy personnel payroll was transferred to Jacobs' payroll system.

16. Restructuring and Integration Costs

In connection with the acquisition of CH2M, both Jacobs and CH2M incurred costs to restructure and integrate their operations and businesses. These costs include severance, office lease termination costs, office relocation and closure costs, certain consulting costs, etc. which Jacobs analyzed to determine the allowable costs under FAR Part 31. Accordingly, the Company incurred restructuring and integration costs in FY 2018, and it included the allowable portion of these costs, \$389k, in its FY 2018 indirect rates. Similarly, the Company received allocations of restructuring and integration costs from the Jacobs Corporate Home Office in FY 2018 of \$1.5M. The unallowable costs associated with the acquisition have been properly removed from the Company's claimed costs. For US Department of Defense (DoD) contracting purposes only, the Company will submit a proposal to the Federal Government for certain Restructuring related costs and then recover those costs on Federal DoD contracts in accordance with the provisions of DFARS 231.205-70.

17. Agreement to sell Energy, Chemicals and Resources

Jacobs announced that it has entered into an agreement to sell its Energy, Chemicals and Resources (ECR) business to WorleyParsons Limited for \$3.3 billion. Subject to the satisfaction of the remaining conditions to closing, Jacobs will then, be focused solely on its two higher growth, higher margin lines of business — Aerospace, Technology & Nuclear (ATN) and Buildings, Infrastructure & Advanced Facilities (BIAF).

18. Management's Evaluation of Subsequent Events

Management has considered and evaluated significant subsequent events through March 28, 2019 and there were no significant events that would have a material effect on the FY 2018 indirect rates other than the agreement to sell its Energy, Chemicals and Resources Business as described above.

Cleary Government Services, LLC

REPORT OF INDEPENDENT PUBLIC ACCOUNTANT

To: Board of Directors

Jacobs Engineering Group Inc.

Re: Internal Control Structure and Compliance with Applicable Laws and Regulations

We have audited the Summary of At-Office and At-Site Rates, Statement of Fringe Benefit Expense and Statement of General & Administrative Expense (Schedules of the Indirect Cost Rates) of Buildings & Infrastructure Americas Project Management/Construction Management (BIA PMCM), a business unit of Jacobs Engineering Group Inc., calculated in accordance with the Federal Acquisition Regulation (FAR) Part 31 for the twelve months ended September 28, 2018, and we have issued our report thereon dated March 28, 2019. These schedules are the responsibility of BIA PMCM's management.

We conducted our audit in accordance with the auditing standards generally accepted in the United States and also the standards applicable to financial audits contained in *Government Auditing Standards* (July 2011 Revision), issued by the Comptroller General of the United States. Those standards require that we plan and perform the audit to obtain reasonable assurance about whether the aforementioned Schedules are free of material misstatement.

Internal Controls Over Financial Reporting

The management of BIA-PMCM is responsible for establishing and maintaining an internal control structure and for maintaining internal control over financial reporting and its indirect rate calculations. In fulfilling this responsibility, estimates and judgments by management are required to assess the expected benefits and related costs of internal control structure policies and procedures. The objectives of an internal control structure are to provide management with reasonable, but not absolute, assurance that assets are safeguarded against loss from unauthorized use or disposition, and that transactions are executed in accordance with management's authorization and recorded properly to permit the preparation of the aforementioned schedules in accordance with applicable regulations including Part 31 of the FAR. Because of the inherent limitations in any internal control structure, errors or irregularities nevertheless may occur and not be detected. Also, projection of any evaluation of the structure to future periods is subject to the risk that procedures may become inadequate because of changes in conditions or that the effectiveness of the design, implementation and/or operation of policies and procedures may deteriorate.

In planning and performing our audit of Schedules of the Indirect Cost Rates, we obtained a general understanding of BIA PMCM's internal control structure. That is, we obtained a general understanding of the design of the policies and procedures relevant to the aforementioned Schedules and whether these policies and procedures were in operation. Specifically, we obtained a general understanding of the controls over payroll processing, time reporting, cash disbursements, expense reporting and identification of unallowable costs. We assessed control risk in order to determine the nature and extent of our testing procedures for the sole purpose of expressing our opinion on the aforementioned Schedules but not for the purpose of expressing an opinion on the effectiveness of BIA PMCM's internal controls over financial reporting and the aforementioned Schedules. Accordingly, we do not express an opinion on the effectiveness of BIA PMCM's internal controls over financial reporting. Further, in our assessment of

Internal Control Over Financial Reporting - continued

control risk, we concluded that substantive testing of the aforementioned Schedules was appropriate, and consequently, our compliance testing of BIA PMCM's internal control structure was very limited in its nature and scope.

The AICPA's Statement on Auditing Standards No. 115 states that a deficiency in internal control exists when the design or operation of an internal control does not allow management or employees, in the normal course of performing their assigned functions, to prevent or detect and correct misstatements on a timely basis.

A material weakness is a deficiency, or combination of deficiencies, in internal control such that there is a reasonable possibility that a material misstatement of the Schedules of the Indirect Cost Rates will not be prevented or detected and corrected on a timely basis. A significant deficiency is a deficiency, or combination of control deficiencies, in internal control that is less severe than a material weakness, yet important enough to warrant the attention of management.

Our consideration of the internal controls over financial reporting was for the limited purpose described above and would not necessarily identify all deficiencies in internal control that might be material weaknesses or significant deficiencies. Nonetheless, we did not identify any deficiencies in the internal controls over BIA PMCM's financial reporting that we consider to be material weaknesses or significant deficiencies, as defined above.

Compliance with Applicable Laws and Regulations

Clary Government Services, LLC

Compliance with laws, regulations and contract terms applicable to BIA PMCM is the responsibility of BIA PMCM's management. As part of obtaining reasonable assurance about whether the aforementioned Schedules are free of material misstatement, we performed tests of BIA PMCM's compliance with certain provisions of laws, regulations and contracts; noncompliance with which could have a direct and material effect on the calculation of the actual indirect rates. However, the objective of our audit of the Schedules of the Indirect Cost Rates was not to provide an opinion on overall compliance with those provisions. Accordingly, we do not express such an opinion. Nonetheless, the results of our tests did not disclose any instances of noncompliance that are required to be reported under *Government Auditing Standards*.

This report is intended solely for the information of BIA PMCM's management and those government agencies with whom BIA PMCM has contracted. It is not intended to be and should not be used by anyone other than the aforementioned parties nor should it be used for any other purpose.

Chicago, Illinois March 28, 2019

CLEARY GOVERNMENT SERVICES, LLC

CH2M HILL, A JACOBS COMPANY

(Divisions of CH2M HILL, INC., CH2M HILL Constructors, Inc., CH2M Polska Services and CH2M HILL Engineers, Inc.)

CH2M Hill Federal Acquisition Regulation Compliant Indirect Cost Rates

(Field Office and Home Office)

For the Nine Months Ended September 28, 2018

(With Independent Auditor's Report Thereon)

CH2M HILL, A JACOBS COMPANY
(Divisions of CH2M HILL, INC., CH2M HILL Constructors, Inc., CH2M Polska Services and CH2M HILL Engineers, Inc.)

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Cleary Government Services, LLC

REPORT OF INDEPENDENT PUBLIC ACCOUNTANT

To: Board of Directors of CH2M HILL Companies, LTD, a Jacobs Company

Re: Indirect Cost Rates Prepared in Accordance with Part 31 of the Federal Acquisition Regulation

We have audited the accompanying Schedules of the CH2M Hill Federal Acquisition Regulation Compliant Indirect Cost Rates (the Schedules) of CH2M HILL Companies, LTD (CH2M), a Jacobs Company which includes the CH2M Client Sectors; the National Governments Client Sector, the State and Local Governments Client Sector, and the Private Client Sector (collectively, the Divisions) are operating Divisions within CH2M HILL, INC., CH2M HILL Constructors, Inc., CH2M Polska Services and CH2M HILL Engineers, Inc (the Companies), for the nine months ended September 28, 2018 prepared in accordance with Title 48, Code of Federal Regulations, Part 31 of the Federal Acquisition Regulation (FAR). These Schedules are the responsibility of CH2M's management. Our responsibility is to express an opinion on these Schedules based on our audit.

We conducted our audit in accordance with auditing standards generally accepted in the United States and also the standards applicable to financial audits contained in *Government Auditing Standards* (July 2011 Revision), issued by the Comptroller General of the United States. Those standards require that we plan and perform the audit to obtain reasonable assurance about whether the Schedules of the CH2M Hill Federal Acquisition Regulation Compliant Indirect Cost Rates are free of material misstatement. An audit includes reviewing, on a test basis, evidence supporting the amounts and disclosures in the Schedules and performing such other procedures as we considered necessary in the circumstances. Our audit also included assessing the accounting principles used and the significant estimates made by management, as well as evaluating the overall schedule presentation. We believe that our audit provides a reasonable basis for our opinion.

The aforementioned Schedules of the CH2M Hill Federal Acquisition Regulation Compliant Indirect Cost Rates were prepared on a basis of accounting practices as prescribed by Part 31 of the FAR as discussed in Note 2 and are not intended to be a presentation in conformity with accounting principles generally accepted in the United States.

In our opinion, the Schedules referred to above present fairly, in all material respects, the CH2M Hill Federal Acquisition Regulation Compliant Indirect Cost Rates for the nine months ended September 28, 2018, calculated in accordance with Part 31 of the FAR.

In accordance with the Government Auditing Standards, we have also issued our report dated March 28, 2019 on our consideration of CH2M's internal controls over financial reporting and our test of its compliance with applicable laws and regulations. That report is an integral part of an audit performed in accordance with Government Auditing Standards and should be read in conjunction with this report.

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Individuals relying on this report must have an adequate understanding of Part 31 of the FAR. Therefore, this report is intended solely for the information of management and government agencies for use under contracts governed by the aforementioned regulations. It is not intended to be and should not be used by anyone other than the aforementioned parties nor should it be used for any other purpose.

Clary Government Services, LLC

Chicago, Illinois

March 28 2019

Cleary Government Services, LLC REPORT OF INDEPENDENT PUBLIC ACCOUNTANT

To: Board of Directors CH2M HILL Companies, LTD, a Jacobs Company

Re: Internal Control Structure and Compliance with Applicable Laws and Regulations

We have audited the Schedules of the CH2M Hill Federal Acquisition Regulation Compliant Indirect Cost Rates (the Schedules) of CH2M HILL Companies, LTD (CH2M), a Jacobs Company which includes the CH2M Client Sectors, the National Governments Client Sector, the State and Local Governments Client Sector, and the Private Client Sector (collectively, the Divisions) are operating Divisions within CH2M HILL, INC., CH2M HILL Constructors, Inc., CH2M Polska Services and CH2M HILL Engineers, Inc (the Companies), for the nine months ended September 28, 2018, and we have issued our report thereon dated March 28, 2019. These Schedules are the responsibility of CH2M's management.

We conducted our audit in accordance with the auditing standards generally accepted in the United States and also the standards applicable to financial audits contained in *Government Auditing Standards* (July 2011 Revision), issued by the Comptroller General of the United States. Those standards require that we plan and perform the audit to obtain reasonable assurance about whether the aforementioned Schedules are free of material misstatement.

Internal Controls Over Financial Reporting

The managements of CH2M and Jacobs are responsible for establishing and maintaining an internal control structure and for maintaining internal control over financial reporting and its indirect rate calculations. In fulfilling this responsibility, estimates and judgments by management are required to assess the expected benefits and related costs of internal control structure policies and procedures. The objectives of an internal control structure are to provide management with reasonable, but not absolute, assurance that assets are safeguarded against loss from unauthorized use or disposition, and that transactions are executed in accordance with management's authorization and recorded properly to permit the preparation of the aforementioned Schedules in accordance with applicable regulations including Part 31 of the FAR. Because of the inherent limitations in any internal control structure, errors or irregularities nevertheless may occur and not be detected. Also, projection of any evaluation of the structure to future periods is subject to the risk that procedures may become inadequate because of changes in conditions or that the effectiveness of the design, implementation and/or operation of policies and procedures may deteriorate.

In planning and performing our audit of the Schedules of the CH2M Hill Federal Acquisition Regulation Compliant Indirect Cost Rates, we obtained a general understanding of CH2M's and Jacobs' internal control structure. That is, we obtained a general understanding of the design of the policies and procedures relevant to the aforementioned Schedules and whether these policies and procedures were in operation. Specifically, we obtained a general understanding of the controls over payroll processing, time reporting, cash disbursements, expense reporting and identification of unallowable costs. We assessed control risk in order to determine the nature and extent of our testing procedures for the sole purpose of expressing our opinion on the aforementioned Schedules but not for the purpose of expressing an opinion on the effectiveness of CH2M's and Jacobs' internal controls over financial reporting and the aforementioned Schedules. Accordingly, we do not express an opinion on the effectiveness of CH2M's and Jacobs' internal controls over financial reporting. Further, in our assessment of control risk, we concluded that substantive testing

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Internal Control Over Financial Reporting - continued

of the aforementioned Schedules was appropriate, and consequently, our compliance testing of CH2M's and Jacobs' internal control structure was very limited in its nature and scope.

The AICPA's Statement on Auditing Standards No. 115 states that a deficiency in internal control exists when the design or operation of an internal control does not allow management or employees, in the normal course of performing their assigned functions, to prevent or detect and correct misstatements on a timely basis.

A material weakness is a deficiency, or combination of deficiencies, in internal control such that there is a reasonable possibility that a material misstatement of the Schedules of the CH2M Hill Federal Acquisition Regulation Compliant Indirect Cost Rates will not be prevented or detected and corrected on a timely basis. A significant deficiency is a deficiency, or combination of control deficiencies, in internal control that is less severe than a material weakness, yet important enough to warrant the attention of management.

Our consideration of the internal controls over financial reporting was for the limited purpose described above and would not necessarily identify all deficiencies in internal control that might be material weaknesses or significant deficiencies. Nonetheless, we did not identify any deficiencies in the internal controls over financial reporting that we consider to be material weaknesses or significant deficiencies, as defined above.

Compliance with Applicable Laws and Regulations

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Compliance with laws, regulations and contract terms applicable to CH2M and Jacobs is the responsibility of CH2M's and Jacobs' management. As part of obtaining reasonable assurance about whether the aforementioned Schedules are free of material misstatement, we performed tests of CH2M's and Jacobs' compliance with certain provisions of laws, regulations and contracts; noncompliance with which could have a direct and material effect on the calculation of the actual indirect rates. However, the objective of our audit of the Schedules of the CH2M Hill Federal Acquisition Regulation Compliant Indirect Cost Rates was not to provide an opinion on overall compliance with those provisions. Accordingly, we do not express such an opinion. Nonetheless, the results of our tests did not disclose any instances of noncompliance that are required to be reported under *Government Auditing Standards*.

This report is intended solely for the information of CH2M's and Jacobs' management and those government agencies with whom CH2M has contracted. It is not intended to be and should not be used by anyone other than the aforementioned parties nor should it be used for any other purpose.

Chicago, Illinois

March 28, 2019

CH2M a Jacobs Company Statement of Federal Acquisition Regulation Compliant Home Office Indirect Cost Rate For the Nine Months Ended September 28, 2018

		H	onic	Office Rate			
Payroll Taxes and Fringe Benefits:	G	eneral Ledger		Adjustments	τ	otal Claimed	Comments
Payroll Taxes	\$	39,417,101	\$	(38,798)	\$	39,378,302	11, 12
Vacation, Holiday & Sick Pay		59,316,060		-		59,316,060	12
Group Insurance and Miscellancous		38,994,403		100,441		39,094,844	2, 3, 4, 12
Pension Plan		(455,588)		3,510,548		3,054,960	3, 12
	\$	137,271,976	\$	3,572,191	\$	140,844,167	
General and Administrative Expenses:							
Indirect Salaries	S	55,104,318	\$	-	\$	55,104,318	12
Incentive and Retirement Pay		10,544,189		11,469,363		22,013,551	3, 7, 12, 13
Buildings & Equipment		6,476,935		, 3,829		6,480,763	4, 12
Taxes, Licenses & Insurance		2,596,288		7,104,814		9,701,102	1, 10, 11, 12
Professional Services		32,762,869		(639,124)		32,123,744	1, 4, 12
Travel & Subsistence		8,647,106		(2,368,659)		6,278,447	1, 12
Office Supplies Expense		2,628,202		(449,294)		2,178,908	1, 12
Professional Education		644,881		(134,694)		510,186	i, 12
Recruiting Costs		7,086,485		(2,357,400)		4,729,086	1, 12
Printing & Computers		67,909		-		67,909	12
Home Office & Intermediate Allocations		(12,499,719)		153,270,506		140,770,787	1, 4, 5, 6, 8, 12, 14, 15, 16, 17, 18, 19
	<u>s</u>	114,059,462	\$	165,899,340	S	279,958,802	
Total Indirect Expenses	<u>s</u>	251,331,438	<u>\$</u>	169,471,532	<u>s</u>	420,802,969	
Direct Labor Costs (Base)	<u>s</u>	413,132,032	s	5,002	\$	413,137,034	
Home Office Indirect Cost Rate					_	101,9%	
Facilities Capital Cost of Money Rate					_	0.340%	20

Comments

- 1. Unallowable costs removed per the Federal Acquisition Regulations (FAR) Part 31.
- 2. Post-retirement benefits adjustments per the FAR and the Cost Accounting Standards (CAS).
- 3. Pension and disability cost adjustments per the FAR and the CAS.
- 4. Credit to offset overhead expenses with income/reimbursement received and remove overhead charges to affiliates, per FAR 31.201-5.
- 5. Holding company allocation from CH2M HILL Companies, Ltd.
- 6. Allocation from CH2M Client Sector Management Home Office.
- 7. Adjustment for FAR compensation limits.
- 8. Adjustment to remove unallowable/unclaimed projects.
- 9. Adjustment to remove fringe benefits allocated to unallowable/unclaimed projects.
- 10. Adjustment to self-insured professional liability to align to projected average losses per CAS 416.
- 11. Adjustment of self-insured workers compensation costs to projected average loss per CAS 416.
- 12. Indirect costs are allocated between Field and Home Office.
- 13. Adjustment made to remove booked incentive compensation and replace with actual incentive compensation paid.
- 14. Adjustment of allocated occupancy costs based on actual usage.
- 15. Adjustment of allocated information technology costs based on actual usage.
- 16. Adjustment to remove Unrealized Gains and Losses.
- 17. Direct assigned costs from other CH2M HILL entities.
- 18. Adjustment to executive compensation based on AASHTO Guidelines.
- 19. Adjustment for pre-announcement merger & acquisition costs.
- 20. Facilities capital cost of money rate is not applicable to the Field Office Indirect cost rate.

CH2M a Jacobs Company

Statement of Federal Acquisition Regulation Compliant Field Office Indirect Cost Rate For the Nine Months Ended September 28, 2018

		F	ield	Office Rate		,	
Payroll Taxes and Fringe Benefits:	Ge	eneral Ledger	. /	djustments	Te	otal Claimed	Comments
Payroll Taxes	Š	4,023,459	\$	(3,960)	S	4,019,499	11, 12
Vacation, Holiday & Sick Pay		6,054,625		-		6,054,625	12
Group Insurance and Miscellaneous		3,980,313		10,252		3,990,565	2, 3, 4, 12
Pension Plan -		(46,504)		358,336		311,832	3, 12
	\$	14,011,893	_\$	364,628	S	14,376,521	4
General and Administrative Expenses:							
Indirect Salaries	S	5,624,716	\$	-	\$	5,624,716	12
Incentive and Retirement Pay		1,076,287		1,170,723		2,247,010	3, 7, 12, 13
Buildings & Equipment		135,524		42		135,566	4, 12
Taxes, Licenses & Insurance		265,013		725,216		990,230	1, 10, 11, 12
Professional Services		3,344,236		(65,238)		3,278,998	1, 4, 12
Travel & Subsistence		882,644		(241,778)		640,866	1, 12
Office Supplies Expense		227,703		(39,540)		188,163	1, 12
Professional Education		65,826		(13,749)		52,077	1, 12
Recruiting Costs		723,346		(240,629)		482,716	1, 12
Printing & Computers		6,932		-		6,932	12
Home Office & Intermediate Allocations		(1,275,896)		11,332,885		10,056,990	1, 4, 5, 6 ,8, 12, 14, 15, 16, 17 ,18, 19
	_\$	11,076,330	_\$_	12,627,933	_\$_	23,704,263	
Total Indirect Expenses	S	25,088,224	\$	12,992,560	<u>\$</u>	38,080,784	
Direct Labor Costs (Base)	_\$	42,170,531	s	<u>-</u>	<u>s</u>	42,170,531	
Field Office Indirect Cost Rate						90,3%	
Facilities Capital Cost Of Money Rate						0.340%	20

Comments

- Unallowable costs removed per the Federal Acquisition Regulations (FAR) Part 31.
- 2. Post-retirement benefits adjustments per the FAR and the Cost Accounting Standards (CAS).
- 3. Pension and disability cost adjustments per the FAR and the CAS.
- 4. Credit to olfset overhead expenses with income/reimbursement received and remove overhead charges to affiliates, per FAR 31,201-5.
- 5. Holding company allocation from CH2M HILL Companies, Ltd.
- 6. Allocation from CH2M Client Sector Management Home Office.
- 7. Adjustment for FAR compensation limits.
- 8. Adjustment to remove unallowable/unclaimed projects.
- 9. Adjustment to remove fringe benefits allocated to unallowable/unclaimed projects.
- 10. Adjustment to self-insured professional liability to align to projected average losses per CAS 416.
- 11. Adjustment of self-insured workers compensation costs to projected average loss per CAS 416.
- 12. Indirect costs are allocated between Field and Home Office.
- 13. Adjustment made to remove booked incentive compensation and replace with actual incentive compensation paid.
- 14. Adjustment of allocated occupancy costs based on actual usage.
- 15. Adjustment of allocated information technology costs based on actual usage.
- 16. Adjustment to remove Unrealized Gains and Losses.
- 17. Direct assigned costs from other CH2M HILL entities.
- 18. Adjustment to executive compensation based on AASHTO Guidelines.
- 19. Adjustment for pre-announcement merger & acquisition costs.
- 20. Facilities capital cost of money rate is not applicable to the Field Office indirect cost rate.

(A Division of CH2M HILL, INC., CH2M HILL Constructors, Inc., CH2M Polska Services and CH2M HILL Engineers, Inc.)

Notes to the Schedules of the CH2M Hill Federal Acquisition Regulation Compliant Indirect Cost Rates for the Nine Months Ended September 28, 2018

(1) Business and Operations

The CH2M Client Sectors, the National Governments Client Sector, the State and Local Governments Client Sector, and the Private Client Sector (collectively, the Divisions) are operating Divisions within CH2M HILL, INC., CH2M HILL Constructors, Inc., CH2M Polska Services and CH2M HILL Engineers, Inc. Each of these companies are wholly owned subsidiaries of CH2M HILL Companies, LTD who is in turn a whollyowned subsidiary of Jacobs Engineering Group Inc.

As described further in Note 15 below, on December 15, 2017 Jacobs Engineering Group Inc. (Jacobs) acquired all of the assets and operations of CH2M HILL Companies, LTD (CH2M), and the integration of the two company's operations, management and administration began shortly thereafter. In connection therewith, CH2M adopted Jacobs' fiscal year, and accordingly, the indirect costs rates are for the nine-month period ending on September 28, 2018.

The Divisions' predominant line of business is providing engineering and consulting services related to transportation, environmental, and water infrastructures, as well as providing program management services.

The Divisions provide the above services for clients in private industry and federal government agencies, as well as state, municipal, and local government entities primarily in the United States of America. A substantial portion of professional fees arises from projects that are funded directly or indirectly by government entities.

(2) Basis of Accounting and Description of Accounting System

The Divisions enter into contracts with the federal government and various state agencies. These contracts prescribe compliance with Title 48 CFR Chapter 1, Part 31 (Federal Acquisition Regulation (FAR), Contract Cost Principles and Procedures).

In preparing the Schedules of the CH2M Hill Federal Acquisition Regulation Compliant Indirect Cost Rates (the Schedules) of the Divisions for the nine months ended September 28, 2018, the Divisions performed an analysis of their accounting and financial records to ensure that the Schedules are prepared in accordance with Title 48 CFR Chapter 1, Part 31 FAR, Contract Cost Principles and Procedures. Accordingly, these calculations and Schedules are not intended to be a presentation in conformity with accounting principles generally accepted in the United States.

The Divisions maintain an accrual basis financial accounting system, and a job-order cost accounting system for the recording and accumulation of costs incurred under its contracts. Each project is assigned a unique job number so that costs may be properly segregated and accumulated in the Divisions' job-order cost accounting system.

(3) Description of the Overhead Rate Structure

The Schedules are developed based on company-wide (CH2M HILL, INC., CH2M HILL Constructors, Inc., and CH2M HILL Engineers, Inc.) data, segregated by Division and allocated to the Home Office and Field Office pools. The Home Office pool is utilized for client project performance in CH2M's facilities; the Field Office pool is utilized for client project performance in client offices or client site locations. The base for allocation is direct labor dollars performed within the Home Office and Field Office pools.

(A Division of CH2M HILL, INC., CH2M HILL Constructors, Inc., CH2M Polska Services and CH2M HILL Engineers, Inc.)

Notes to the Schedules of the CH2M Hill Federal Acquisition Regulation Compliant Indirect Cost Rates for the Nine Months Ended September 28, 2018

(3) Description of the Overhead Rate Structure, cont.

Other Direct Costs (ODC's) are consistently charged to all projects. All significant costs that can be identified to specific client projects are charged direct. Direct costs are those costs that are identified with or clearly assignable to specific client contracts. Indirect costs are those costs that cannot be directly identified with or assigned to specific client contracts. All costs that are material and that are incurred for the same purpose, in like circumstances, are reported as direct costs only or as indirect costs only with respect to client contracts.

The Corporate Home Office (CH2M HILL Companies, Ltd.), Intermediate Home Office (CH2M HILL Client Sector Management), Occupancy, and Information Technology cost pools are allocated to benefiting Client Sectors, including the Divisions. These allocations are contained within the Schedules and are included as part of the indirect cost rates.

(4) Service Center Accounting

The Divisions record the costs of service centers such as fleet vehicles, health and safety, laboratory and testing support, and certain field equipment support centers in separate cost pools. The costs of these services are then charged to activities based on allocation rates developed for each center. These allocation rates do not include profit or interest.

The service centers are charged direct or indirect, depending on the nature of the activity being supported. Charges related to indirect activities, such as accounting, human resources, and other administrative functions, are recorded in an indirect cost pool and included as part of the indirect cost rates. Charges for support of client contracts are consistently recorded as direct costs and excluded from the indirect cost pool, regardless of the client's method of reimbursing such costs.

(5) Labor Costs

The Divisions charge labor costs to all projects (direct and indirect) using the employees' actual hourly pay rates, utilizing a 2,080-hour work year. Contract/purchased labor is treated as ODC's; not as employee labor.

(6) Paid Time off

Employees accrue paid time off (combined vacation and sick time) based on longevity. The amount that can be carried over from year-to-year is also based on longevity. The Divisions do not provide compensatory time off benefits.

(7) Overtime

Employees record all hours worked. Overtime costs are incurred in meeting certain deadlines. Hourly employees who work overtime are compensated at time and a half. The premium portion of overtime pay for hourly employees is charged to the salary variance account and included in the indirect cost pools. Overtime for salaried employees working on client projects is charged to projects at the employees' straight time rate. Salaried employees are compensated at their straight time rate when the sum of the hours worked on client projects is greater than 80 hours for the two-week payroll period. When these criteria are not met, uncompensated overtime for salaried employees related to hours worked in excess of 80 hours is recorded as a reduction in the salary variance account in the indirect cost pools.

(A Division of CH2M HILL, INC., CH2M HILL Constructors, Inc., CH2M Polska Services and CH2M HILL Engineers, Inc.)

Notes to the Schedules of the CH2M Hill Federal Acquisition Regulation Compliant Indirect Cost Rates for the Nine Months Ended September 28, 2018

(8) Highly Compensated Employees/Officers

The Divisions evaluated compensation of senior executives and officers in excess of the FAR 31.205-6(p) limit of \$525,000 per person. Compensation in excess of the limit was excluded from the indirect cost pools.

Additionally, an evaluation of compensation reasonableness as described in the American Association of State Highway and Transportation Officials (AASHTO) Audit Guide Section 7.5, was performed on senior executives and senior managers of CH2M and the Divisions the firm (i.e., vice-president level and above or statutory officers).

Information from independent compensation analysis and surveys was utilized in performing this evaluation: Towers Watson, Mercer, and Pearl Meyer and Partner. As a result of the analysis of executive compensation reasonableness, a total of \$1,986,975 of executive compensation was disallowed from the CH2M Hill Federal Acquisition Regulation Compliant Indirect Cost Rates. Of the disallowed amount, \$1,301,543 was attributable to corporate and intermediate home office costs, and \$685,432 was attributable to the Federal Acquisition Regulation Compliant Indirect Rate pool(s).

(9) Facilities Capital Cost of Money

The Facilities Capital Cost of Money (FCCM) rate, as defined by the FAR, for the nine months ended September 28, 2018 is computed in accordance with Cost Accounting Standard (CAS) 414 as follows:

Net Book Value of Assets - Prior Year	\$	92,245,108
Net Book Value of Assets - Current Year	\$	49,695,799
Average Net Book Value	\$	70,970,454
Multiplied by: Average Treasury Rate		2.938%
Equals: Facilities Capital Cost of Money	\$	2,084,757
Divided by: Direct Labor Cost	\$	612,322,839
Equals: Facilities Capital Cost of Money Rate	•	0.340%

(10) Pension Plans and Deferred Compensation Plans, and ESOPs

CH2M operates a 401(k) pension plan, meeting the requirements of FAR 31.205(6)j. Matching contributions of 50% to 100% of the first 6% of employees' base pay are made annually. The compensation costs included within the indirect rates were determined based on the cash value of the contributions made.

CH2M has included costs for a defined benefit pension plan that has been frozen since 1993. The costs included in the indirect rates were computed in compliance with Cost Accounting Standard 412, and FAR 31.205(6)j.

(11) Description of Depreciation and Leasing

The Divisions calculate their depreciation expense in accordance with the accounting principles generally accepted in the United States wherein fixed assets are capitalized and depreciated over their estimated useful lives. The Divisions utilize the straight-line method of depreciation. The estimated service lives are 3 to 5 years for vehicles and equipment, 5 to 7 years for furniture and fixtures, 3 to 5 years for software and the

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Notes to the Schedules of the CH2M Hill Federal Acquisition Regulation Compliant Indirect Cost Rates for the Nine Months Ended September 28, 2018

(11) Description of Depreciation and Leasing, cont.

lesser of the lease term or useful life for leasehold improvements. The Divisions lease office space, vehicles, copy machines and other office equipment under operating leases.

(12) Home and Field Office Indirect Rate Allocation Method

The Divisions calculate indirect cost rates for Home and Field Offices separately. Specifically identified indirect costs, which do not benefit the Field Office, have been excluded from the Field Office cost pool, and these costs have been allocated entirely to the Home Office. These costs primarily consist of occupancy-related expenses, including rent, utilities, furnishings, and other office-related costs.

Indirect costs, which benefit the Divisions as a whole, have been allocated to both the Field and Home Office pools using direct labor performed within each of the respective office pools as the basis for allocation.

(13) Cost Estimation Process

CH2M HILL, INC. and CH2M HILL Constructors, Inc. methods of estimating costs for pricing purposes during the proposal process were consistent with the accumulation and reporting of costs under the company's job-order cost accounting system. Beginning in 2018, CH2M HILL Engineers, Inc. adopted the same accounting, costing and estimating practices as the other Divisions included in the CH2M Hill Federal Acquisition Regulation Compliant Indirect Cost Rates thereby achieving consistency.

(14) Acquisition by Jacobs Engineering Group Inc.

On December 15, 2017, Jacobs' completed its acquisition of CH2M HILL Companies, Ltd. (CH2M) by acquiring 100% of the outstanding shares of CH2M's common and preferred stock. The combined companies had annual revenues of approximately \$15 billion in FY 2018. The acquisition enhances Jacobs' position in the infrastructure, water and transportation markets among other markets. Jacobs and CH2M operated largely as separate, stand-alone companies during FY 2018. That is, each of the companies' respective cost accounting practices and related CAS Disclosure Statements remained in effect during FY 2018. The combination of Jacobs and CH2M has already and will continue to yield significant operational and administrative efficiencies and savings through reductions in personnel, the closure and consolidation of redundant offices, etc.

As a result, the acquisition CH2M is now a wholly-owned subsidiary of Jacobs. The development of the new Buildings and Infrastructure Americas (BIA) operating model and organization structure has been finalized. Management has completed the process of harmonizing the cost accounting practices and finalizing the FY 2019 indirect rate structure. As of September 29, 2018, the CH2M staff and projects are integrated into Jacobs' project accounting systems and indirect rate structure; allowing all of the Jacobs BIA employees to charge projects contracted by either firm. The final step of the accounting consolidation occurred on Jan 1, 2019 when all CH2M legacy personnel payroll was transferred to Jacobs' payroll system.

(A Division of CH2M HILL, INC., CH2M HILL Constructors, Inc., CH2M Polska Services and CH2M HILL Engineers, Inc.)

Notes to the Schedules of the CH2M Hill Federal Acquisition Regulation Compliant Indirect Cost Rates for the Nine Months Ended September 28, 2018

(15) Restructuring and Integration Costs

In connection with the acquisition of CH2M, both Jacobs and CH2M incurred costs to restructure and integrate their operations and businesses. These costs include severance, office lease termination costs, office relocation and closure costs, certain consulting costs, etc. which CH2M analyzed to determine the allowable costs under FAR Part 31. Accordingly, the Divisions incurred restructuring and integration costs in FY 2018, and it included the allowable portion of these costs, \$2.6M in its FY 2018 indirect rates.

Similarly, the Divisions received allocations of restructuring and integration costs from the Corporate Home Office (CH2M HILL Companies, Ltd.), Intermediate Home Office (CH2M HILL Client Sector Management) in FY 2018 of \$10.0M. Last, the unallowable costs associated with the acquisition have been properly removed from the Company's claimed costs.

For US Department of Defense (DoD) contracting purposes only, Jacobs and CH2M will submit a proposal to the Federal Government for certain Restructuring related costs and then recover those costs on Federal DoD contracts in accordance with the provisions of DFARS 231.205-70 and per agreement with the Federal government.

(16) Subsequent Events

The Divisions have evaluated subsequent events through March 28, 2019, the date upon which the Schedules were available for issuance, and there were no significant subsequent events that would have a material effect on the indirect cost rates or that require disclosure.

(17) Description of Related-Party Transactions

In accordance with FAR 31.205-36, there were not any related-party transactions that required adjustment or disclosure.

Long Beach Airport Long Beach , California Taxiway C Rates Cost Plus Fixed Fee

Rates for 2019

Title/Category	Personnel	Direct Labor Rate	Overhead	Profit	Total Loaded Rate
Airfield Construction M	80.83%				
Airfield Construction M	anagement Team (o	ffice)	105.80%		
Senior Project Executive	Ron Siecke, PE	\$162.13	\$171.53	Assastint.	\$333.66
Project Manager V	Jesus Moncada	\$108.15	\$114.42		\$222.57
Construction Manager III	Brook Corney	\$88.94	\$71.89		\$160,83
Airfield Inspector IV	Martin Carbullido	\$66,16	\$53,48		\$119.64
Airfield Inspector I	Tony Camarena	\$35,48	\$28.67		\$64.15
CAD Technician I	Joseph Ekl	\$36.06	\$38.15		\$74.21
Project Coordinator I	Ariana Case	\$39.95	\$42.27	and Salara Salara Salara Salara Salara	\$82,22
Airfield Inspector J	Raj Wani	\$33.65	\$27.20		\$60.85

Rates for 2020		3%	Escalation		
Title/Category	Personnel	Direct Labor Rate	Overhead	Profit	Total Loaded Rate
Airfield Construction M	anagement Team (a	t-Site)	80.83%		
Airfield Construction M	anagement Team (o	ffice)	105.80%		
Senior Project Executive	Ron Siecke, PE	\$166.99	\$176.68		\$343.67
Project Manager V	Jesus Moncada	\$111.39	\$117.86		\$229,25
Construction Manager III	Brook Corney	\$91.61	\$74.05		\$165.66
Airfield Inspector IV	Martin Carbullido	\$68.14	\$55.08		\$123.23
Airfield Inspector I	Tony Camarena	\$36.54	\$29,53		\$66,07
CAD Technician	Joseph Ekl	\$37.14	\$39.29		\$76.43
Project Coordinator	Ariana Case	\$41.15	\$43,54		\$84.68
Airfield Inspector I	Raj Wani	\$34.66	\$28.02		\$62,67

Rates for 2021		3%	Escalation	*	
Title/Category	Personnel	Direct Labor Rate	Overhead	Profit	Total Loaded Rate
Airfield Construction M	anagement Team (nt-Site)	80.83%		
Airfield Construction M	anagement Team (office)	105.80%		
Senior Project Executive	Ron Siecke, PE	\$172.00	\$181.98		\$353.98
Project Manager V	Jesus Moncada	\$114.74	\$121.39		\$236,13
Construction Manager III	Brook Corney	\$94.36	\$76.27	Server (Administrative) Server (Awar Server)	\$170.62
Airfield Inspector IV	Martin Carbullido	\$70.19	\$56.73		\$126.92
Airfield Inspector I	Tony Camarena	\$37.64	\$30.42		\$68.06
CAD Technician	Joseph Ekl	\$38.25	\$40.47		\$78.73
Project Coordinator	Ariana Case	\$42.38	\$44.84		\$87,22
Airfield Inspector I	Rai Wani	\$35.70	\$28.86		\$64.56

Notes:

- 1. Use 105.80% for Ron, Jesus, Joseph and Ariana
- 2. Use 80.83% for Brook, Martin, Tony and Raj
- 3. Above listed rates are based on the overhead rate for Buildings and Infrastructure Americas Design for the Fiscal Year Ended September 29, 2018.
- 4. Buildings and Infrastructure Americas Design is a Business Unit of Jacobs Engineering Group Inc.
- 5. Direct Labor Rate is actual compensation for each employee.