



City of Lemon Grove
City Council Regular Meeting Agenda
Tuesday, November 7, 2017, 6:00 p.m.
Lemon Grove Community Center
3146 School Lane, Lemon Grove, CA

The City Council also sits as the Lemon Grove Housing Authority, Lemon Grove Sanitation District Board, Lemon Grove Roadway Lighting District Board, and Lemon Grove Successor Agency Board

Call to Order

Pledge of Allegiance

Changes to the Agenda

Presentations

"Lemon Grove History Minute #7"

Lemon Grove Home Grown 40 Year Business Recognition Series Honoring Dell Awards

Introduction of Sanitation Tech I - George Irons and Street Tech I Ivan Ortega

Crime Free Multi Housing Award

Public Comment

(Note: In accordance with State Law, the general public may bring forward an item not scheduled on the agenda; however, the City Council may not take any action at this meeting. If appropriate, the item will be referred to staff or placed on a future agenda.)

1. Consent Calendar

(Note: The items listed on the Consent Calendar will be enacted in one motion unless removed from the Consent Calendar by Council, staff, or the public.)

A. City of Lemon Grove Payment Demands

Reference: Gilbert Rojas, Interim Finance Director

Recommendation: Ratify Demands

B. Waive Full Text Reading of All Ordinances on the Agenda

Reference: James P. Lough, City Attorney

Recommendation: Waive the full text reading of all ordinances included in this agenda; Ordinances shall be introduced and adopted by title

2. Professional Services Agreement with Nichols Consulting Engineers to Update the Pavement Management Program

The City Council will consider a resolution that approves a professional services agreement with Nichols Consultant Engineers to update the Pavement Management Program.

Reference: Mike James, Assistant City Manager / Public Works Director

Recommendation: Adopt Resolution

City Council Oral Comments and Reports on Meetings Attended at the Expense of the City.

(GC 53232.3 (d) states that members of a legislative body shall provide brief reports on meetings attended at the expense of the local agency at the next regular meeting of the legislative body.)

Department Director Reports (Non-Action Items)

Closed Session

Conference with Legal Counsel—Existing Litigation (Paragraph (1) of subdivision (d) of Section 54956.9)

Name of case: 37-2016-00015271-CU-BC-CTL City of Lemon Grove v. SWRAJ Hotel, Inc., et al.

Conference with Legal Counsel—Existing Litigation (Paragraph (1) of subdivision (d) of Section 54956.9)

Name of case: 37-2017-00037623-CU-PO-CTL Rosa Vasquez v. The City of San Diego; City of Lemon Grove

Conference with Legal Counsel—Existing Litigation (Paragraph (1) of subdivision (d) of Section 54956.9)

Name of case: 17CV LAB MDD Case Bush v. Jones; Romero

Pursuant to Government Code Section 54957: Public Employee Performance Evaluation

Title: City Attorney

Adjournment

In compliance with the Americans with Disabilities Act (ADA), the City of Lemon Grove will provide special accommodations for persons who require assistance to access, attend and/or participate in meetings of the City Council. If you require such assistance, please contact the City Clerk at (619) 825-3800 or email sgarcia@lemongrove.ca.gov prior to the meeting. A full agenda packet is available for public review at City Hall.

City of Lemon Grove Demands Summary

Approved as Submitted:

Gilbert Rojas, Interim Finance Director

For Council Meeting: 11/07/17

ACH/AP Checks 10/10/17-10/26/17

1,411,295.30

Payroll - 10/10/17

135,472.26

Payroll - 10/24/17

140,217.35

Total Demands

1,686,984.91

Check No	Vendor No	Vendor Name	Check Date	Vendor Name	Check Amount	
CHECK NO	INVOICE NO	VENDOR NAME	CHECK DATE	Description	INVOICE AMOUNT	CHECK AMOUNT
ACH	Refill 10/9/17	Pitney Bowes Global Financial Services	10/10/2017	Postage Usage 10/9/17	250.00	250.00
ACH	4154920380 3568860625	SDG&E	10/11/2017	Electric Usage:St Light 8/31/17-9/30/17 Electric Usage:St Light 8/31/17-9/30/17	1,860.22 1,272.90	3,133.12
ACH	Sep14 17 Sep28 17	Southern CA Firefighters Benefit Trust	10/11/2017	LG Firefighters Benefit Trust 9/14/17 LG Firefighters Benefit Trust 9/28/17	876.85 876.85	1,753.70
ACH	Sep17	Wells Fargo Bank	10/11/2017	Bank Service Charge - Sep'17	508.62	508.62
ACH	Aug/Sep 17	WEX Bank	10/11/2017	Fuel - Fire Dept - Aug & Sep'17	1,194.44	1,194.44
ACH	Aug17	San Diego County Sheriff's Department	10/12/2017	Law Enforcement Services - Aug'17	460,221.71	460,221.71
ACH	Aug/Sep 17	Colonial Life	10/12/2017	Colonial Optional Insurance -Aug & Sep'17	1,786.95	1,786.95
ACH	Sep27-Oct10 17	Calpers Supplemental Income 457 Plan	10/12/2017	457 Plan 9/27/17-10/10/17	5,026.16	5,026.16
ACH	Oct10 17	Employment Development Department	10/12/2017	State Taxes 10/10/17	8,317.10	8,317.10
ACH	Sep17	Home Depot Credit Services	10/13/2017	Home Depot Expenses - Sep'17	1,092.33	1,092.33
ACH	Oct10 17	US Treasury	10/17/2017	Federal Taxes 10/10/17	29,481.56	29,481.56
ACH	518394	Aflac	10/17/2017	AFLAC Insurance 10/25/17	1,038.72	1,038.72
ACH	Sep17	Chase Bank	10/18/2017	Workers' Comp Claims - Sep'17	13,657.85	13,657.85
ACH	Sep13-Oct10 17	California Public Empl Retirement System	10/24/2017	Pers Retirement 9/13/17-10/10/17	66,634.44	66,634.44
ACH	Oct24 17	Employment Development Department	10/26/2017	State Taxes 10/24/17	9,198.20	9,198.20
ACH	Oct12 17 Oct26 17	Southern CA Firefighters Benefit Trust	10/26/2017	LG Firefighters Benefit Trust 10/12/17 LG Firefighters Benefit Trust 10/26/17	876.85 876.85	1,753.70
ACH	Sep17	San Diego County Sheriff's Department	10/26/2017	Law Enforcement Services - Sep'17	459,759.19	459,759.19
ACH	Oct11-Oct24 17	Calpers Supplemental Income 457 Plan	10/26/2017	457 Plan 10/11/17-10/24/17	5,026.16	5,026.16
ACH	L0383974176	Employment Development Department	10/26/2017	Unemployment Insurance - Jul-Sep'17	2,880.00	2,880.00
8442	INV-ACC34353	Accela, Inc. #774375	10/11/2017	Annual Maintenance 10/18/17-10/17/18	21,691.79	21,691.79
8443	5826 5827 5828 5829 5830	Aguirre & Associates	10/11/2017	8084 LGW Map Review - Sep '17 8501 Ildica Map Review - Sep '17 2624 Nida Street Dedication - Sep '17 8458 Golden Map Review - Sep '17 2135 Washington Map Review - Sep '17	57.50 115.00 235.00 460.00 402.50	1,270.00
8444	Alpizar	Alpizar, Gregoria	10/11/2017	Refund/Alpizar, Gregoria/LBH- 9/30/17	200.00	200.00
8445	L1072895RJ	American Messaging	10/11/2017	Pager Replacement Program- 10/1/17-10/31/17	40.74	40.74
8446	Arellano	Arellano, Haram	10/11/2017	Refund/Arellano, Haram/Deposit- LeeHouse 10/7/17	200.00	200.00
8447	10228723 9/22/2017 10271543	AT&T	10/11/2017	Phone Service- 8/13/17-9/12/17 Backup City Hall Internet- 8/23/17-9/22/17 Fire Backup Phone Line- 8/22/17-9/21/17	81.36 75.00 38.77	195.13
8448	5656914314	AutoZone, Inc.	10/11/2017	Diesel Exhaust Fluid - LGPW #32	26.94	26.94
8449	4626656	Bearcom	10/11/2017	Portable Radios Monthly Contract 9/22/17-10/21/17	150.00	150.00
8450	810556-9	BJ's Rentals	10/11/2017	Propane	13.58	63.88

	811069-9		Auger Post Hole & Bit/Installing Eqpt/LG Park	50.30	
8451	Burke	Burke, JoAnne	10/11/2017 Refund/Burke, Jo Anne/Deposit - LeeHouse 9/30/17	300.00	300.00
8452	1710023	California Aquatics	10/11/2017 Fountain Monthly Svc - Civic Center Park - Sep '17	150.00	150.00
8453	17801948 17801948b	Canon Financial Services Inc.	10/11/2017 Canon Copier Contract Charge Sep '17 Basement Canon Plotter Contract Charge Sep '17	81.35 144.00	225.35
8454	694399852	Cintas Corporation #694	10/11/2017 Janitorial Supplies - 10/5/17	213.06	213.06
8455	FRS0000061 FRS0000061 HCA0000189	City of El Cajon	10/11/2017 Overtime Reimbursement- Belloli 9/9/17 Overtime Reimbursement- Silonov 9/12/17 HCFA Assessments - QTR 2 FY17/18	1,115.13 439.41 65,117.25	66,671.79
8456	19668 19668	City of La Mesa	10/11/2017 Overtime Reimb- Perrins/Tasco/Sergeant/Georgi 8/30/17-9/14/17 Reimbursable Overtime- Brown 9/14/17	5,487.87 1,151.38	6,639.25
8457	31799	Clear Water Solutions Inc.	10/11/2017 Storm Drain Filter Repair/Maint/Edco Recy/6670 Fed Blvd-10/5	2,779.67	2,779.67
8458	092917	Cloud Security Systems	10/11/2017 Service/Security System/3131 School Ln/Rec Ctr	115.00	115.00
8459	18CTOFLGN03	County of San Diego- RCS	10/11/2017 800 MHZ Network - Sep '17	2,964.00	2,964.00
8460	10/29/2017 10/29/2017	Cox Communications	10/11/2017 Internet/Community Ctr- 9/30/17-10/29/17 Peg Circuit Svc- 9/30/17-10/29/17	75.00 2,888.46	2,963.46
8461	9/18-21/17 9/25-28/17 10/2-5/17	Esgil Corporation	10/11/2017 75% Building Fees- 9/18/17-9/21/17 75% Building Fees- 9/25/17-9/28/17 75% Building Fees- 10/2/17-10/5/17	4,029.38 2,179.27 21,436.95	27,645.60
8462	228995	Evans Tire & Service Center	10/11/2017 LGPW #28 '08 Chevy Colo - Oil Change/Flat Repair/Tire Rotation	25.50	25.50
8463	Reimb 10/5/17 Reimb 10/5/17 Reimb 10/5/17	Evans, Miranda	10/11/2017 Reimb: Promo Items & Bevs/Berry St Park Event 10/19/17 Reimb: Supplies for Kindness Rocks Campaign Reimb: Promo Items & Decor for Lemonade Stand	60.52 99.67 64.77	224.96
8464	57545	EW Truck & Equipment Company, Inc.	10/11/2017 LGPW#32 '14 GapVax-Turbocharger Actuator/PowerTrain Repair	1,997.35	1,997.35
8465	25624	Excell Security, Inc.	10/11/2017 Senior Center Security Guard - 9/30/17	99.80	99.80
8466	9328	Fire Service Specification & Supply	10/11/2017 Service & Parts- Homatro Rescue Tool - E10	2,050.46	2,050.46
8467	108724491	Globalstar USA, Inc.	10/11/2017 Satellite Service 8/16/17-9/15/17	106.33	106.33
8468	092817-1	Heartland Fire Training Facility	10/11/2017 Registration - LARRO Course Sep 13-15, 2017- Lopez	91.00	91.00
8469	00047014 00047047	Hudson Safe-T- Lite Rentals	10/11/2017 No Parking Sign Cardboard No Parking Signs	37.71 54.13	91.84
8470	07-2297 07-2324	Lemon Grove School District	10/11/2017 Fuel Services-Fire Stn- May '17 Fuel Services-Fire Stn- Jul '17	1,449.86 1,537.86	2,987.72
8471	792409	Miracle Recreation Equipment Co.	10/11/2017 Dupli-Gator Slide/Climber Replacement- LG Park	1,320.75	1,320.75
8472	IN1165786	Municipal Emergency Services Inc.	10/11/2017 AC-32 Wheel Choc & Horizontal Choc Holder - E10	162.61	162.61
8473	91700293	NBS Govt Finance Group	10/11/2017 Develop Add'l Rate Alternatives & Consulting Svcs-thru 9/30/17	705.00	705.00
8474	146215	Pacific Sweeping	10/11/2017 St Sweeping/Power Washing -Parking Lot.Bus Shelters Jul '17	6,655.15	6,655.15
8475	92917	Pro Drain & Plumbing Service Inc.	10/11/2017 Plumbing Svc- LG Park Restroom Clear Main Sewer Line 9/29/17	165.00	165.00
8476	711021	Rancho Chrysler Jeep Dodge	10/11/2017 LGPW#26- '05 Dodge Sprinter- Safety Recall/Battery/Veh Inspctn	428.47	428.47
8477	31253010 31256299	RCP Block & Brick, Inc.	10/11/2017 Rapid Set Concrete Mix- Gate on Sweetwater Way Rapid Set Concrete Mix/Hi-Strength Concrete- LG Park	37.07 113.85	150.92
8478	0057295 17546D(2)	Rick Engineering Company	10/11/2017 Prof Svc: LGA Realignment & 20A UG Dist Projs 7/29/17-8/25/17 Prof Svc: City Engineer 7/29/17-8/25/17	6,770.36 10,175.00	16,945.36
8479	Reimb 10/3/17	Rodriguez, Frankie	10/11/2017 Reimb: Fuel for Fire Prev Vehicle- Rodriguez	65.00	65.00
8480	Rucker	Rucker, Alvida	10/11/2017 Refund/Rucker, Alvida/Deposit- LBH - 9/23/17	200.00	200.00
8481	14060/71/14161	Statewide Stripes, Inc.	10/11/2017 Traffic Striping & Markings- West of LGA - Various Locs	42,984.65	42,984.65
8482	Swain	Swain, Irene	10/11/2017 Refund/Swain, Irene/Deposit - Rec Ctr- 10/8/17	200.00	200.00
8483	6742	T-Man Traffic Supply	10/11/2017 Traffic Stencils/Tow/No Park D/T By Police	12.60	12.60
8484	Reimb 10/9	Tamimi, Malik	10/11/2017 Reimb:Strmwtr Trng (CASQA)Sacramento/Tamimi-9/25-27/17	1,169.80	1,169.80

8485	1036-9	The Sherwin-Williams Co.	10/11/2017	Graffiti Cleanup Supplies	219.71	219.71
8486	Oct10 17	Vantage Point Transfer Agents-457	10/11/2017	ICMA Deferred Compensation Pay Period Ending 10/10/17	580.77	580.77
8487	9793075421 9793093365	Verizon Wireless	10/11/2017	EOC Router/Emer Phone Lines/Tablets- 8/21/17-9/20/17 MDC Engine Tablets- 8/21/17-9/20/17	470.79 190.07	660.86
8488	N501000813	Volvo Construction Equipment & Service	10/11/2017	Asphalt Compactor	31,058.76	31,058.76
8489	71593983 71593984 71606089 71609031	Vulcan Materials Company	10/11/2017	Asphalt/SS1H 4.5 Gallon Bucket Asphalt/SS1H 4.5 Gallon Bucket Asphalt/SS1H 4.5 Gallon Bucket Asphalt	173.95 174.82 180.09 94.96	623.82
8490	Williamson	Williamson, Katia	10/11/2017	Refund/Williamson, Katia/Deposit- LBH- 9/16/17	300.00	300.00
8491	0156 0429	A Aaron Lock & Key	10/18/2017	Keys- Rec Ctr Keys- Rec Ctr	80.92 21.47	102.39
8492	15691L-IN	Aztec Landscaping Inc.	10/18/2017	Upskirting & Thinning Plant Material- San Miguel & Main St	3,760.00	3,760.00
8493	Reimb 10/16	Boyce, Stephanie	10/18/2017	Reimb - Giftcards/Employee Recognition Event 10/19/17	199.97	199.97
8494	Caldwell	Caldwell, Marvin	10/18/2017	Refund/Caldwell, Marvin/Permit Withdrawn - B16-0377- 4/17/17	893.12	893.12
8495	Jul-Sep17	California Building Standards Commission	10/18/2017	BSA Fees: Jul-Sep'17	111.60	111.60
8496	Nov 2017	California Dental Network Inc.	10/18/2017	California Dental Insurance -Nov17	309.98	309.98
8497	17856490	Canon Financial Services Inc.	10/18/2017	Canon Copier Contract Charge Oct '17	81.35	81.35
8498	694396951 694402728	Cintas Corporation #694	10/18/2017	Janitorial Supplies - Fire - 9/28/17 Janitorial Supplies - 10/12/17	352.43 574.89	927.32
8499	1479 1480 1481	Clark Telecom & Electric Inc.	10/18/2017	Street Light Maintenance- Sep '17 Street Light Repairs- Sep '17 Street Light Dig Alert Mark Outs- Sep '17	141.76 79.13 416.14	637.03
8500	33935	Colantuono, Highsmith & Whatley, PC	10/18/2017	Legal Svcs - Jul-Sep '17	149.38	149.38
8501	81841287 81841870	Corelogic Solutions, LLC.	10/18/2017	RealQuest Graphics Package - Sep '17 Image Requests - Sep '17	300.00 5.50	305.50
8502	10/1/2017 10/7/2017 10/7/2017 10/10/2017 10/1/2017 10/4/2017	Cox Communications	10/18/2017	Main Phone/Fire- 10/1/17-10/31/17 Calsense Modem Line:2259 Washington Ave 10/6/17-11/5/17 Calsense Modem Line:7071 Mt Vernon- 10/6/17-11/5/17 Calsense Modem Line:8235 Mt Vernon- 10/9/17-11/8/17 Phone/City Hall- 10/1/17-10/31/17 Phone/Rec Ctr/ 3131 School Ln 10/4/17-11/3/17	473.17 21.00 19.89 94.39 973.61 97.87	1,679.93
8503	Jul-Sep 17	Department of Conservation	10/18/2017	Qtrly SMIP Fees - Jul-Sep'17	301.16	301.16
8504	Jul-Sep 17	Division of the State Architect	10/18/2017	State CASP Fee- 7/1/17-9/30/17	27.00	27.00
8505	0919172305 1003172305	Domestic Linen- California Inc.	10/18/2017	Shop Towels & Safety Mats 9/19/17 Shop Towels & Safety Mats 10/3/17	105.55 105.55	211.10
8506	ElorEnergy	Elor Energy Inc.	10/18/2017	Refund/Elor Energy Inc/Permit Withdrawn - B16-0474- 9/25/17	99.64	99.64
8507	10/9-12/17	Esgil Corporation	10/18/2017	75% Building Fees- 10/9/17-10/12/17	1,573.79	1,573.79
8508	PC-10/11 PC-10/11 PC-10/11 PC-10/11 PC-10/11 PC-10/11 PC-10/11	Gill Rojas or Brenda Wardrip	10/18/2017	Petty Cash- Mileage- Tamimi 7/20/17-8/15/17 Petty Cash- Supplies for Gate/Sweetwater Way Petty Cash- Tools & Supplies/Drillbits Petty Cash- Mileage- Boyce 9/27/17-10/3/17 Petty Cash- LGPW#07- Spring Link Petty Cash- LG 40th Birthday Supplies Petty Cash- Mileage- Tamimi 8/17/17-10/5/17	44.41 13.57 21.54 36.22 2.88 67.80 47.62	234.04
8509	00047179 00047386	Hudson Safe-T- Lite Rentals	10/18/2017	No Parking Beyond This Point Signs Hi-Intensity Traffic Markers	151.55 389.70	541.25
8510	123639	Knott's Pest Control, Inc.	10/18/2017	Flea Control- Rec Ctr- Sep 17	110.00	110.00
8511	Aug-Sep 17	Law Offices of Chance Hawkins	10/18/2017	Legal Svcs - Aug/Sep '17	1,836.00	1,836.00
8512	108860	Lemon Grove Glass & Supply Inc	10/18/2017	Repair Glass Door/Community Center	559.32	559.32
8513	INV18989 INV18989	Logiccopy	10/18/2017	Ricoh C3502 Copier Contract Charge- PW Yard- 10/7/17-11/6/17 Ricoh C3502 Copier Contract Usage- PW Yard- 7/7/17-10/6/17	51.61 90.38	141.99

8514	Sep 17 Sep 17 Sep 17 Sep 17 Sep 17 Sep 17 Sep 17 Sep 17	Lounsbery Ferguson Altona & Peak LLP	10/18/2017	General 01163-00002 - Sep '17 Code Enforcement 01163-00003 - Sep '17 Cost-Share Agreement 01163-00023 - Sep '17 Legal Svcs 01163-00028 - Sep '17 Sanitation Dist 01163-00036 - Sep '17 Legal Svcs 01163-00034 - Sep '17 Legal Svcs 01163-00037 - Sep '17 Legal Svcs 01163-00038 - Sep '17	14,840.40 4,907.52 5,835.40 1,294.80 199.20 33.20 49.80 1,195.20	28,355.52
8515	3010260407	Parkhouse Tire Inc	10/18/2017	Backhoe- Fleet Service/Flat Repair	199.22	199.22
8516	1610-RET	Portillo Concrete Inc	10/18/2017	CUPCA #2016-19 New Jersey Ave Proj - Retention	2,313.85	2,313.85
8517	31247162 31259165	RCP Block & Brick, Inc.	10/18/2017	Bulk Concrete Sand/White Flood Control Bags - Fire Station Hi-Strength Concrete Mix- LG Park	587.02 4.97	591.99
8518	82871974	SiteOne Landscape Supply, LLC	10/18/2017	Herbicide/Roundup Promax/Speedzone Herbicide Red	240.29	240.29
8519	LG-8	Smith Air Conditioning	10/18/2017	Service Call- AC Unit Repair/City Hall-Unit 11	145.50	145.50
8520	260754	State of California- Department of Justice	10/18/2017	Fingerprint Apps - Sep '17	224.00	224.00
8521	901063	Superior Ready Mix Concrete LP	10/18/2017	Asphalt	829.24	829.24
8522	STMT 9/22/2017 STMT 9/22/2017	US Bank Corporate Payment Systems	10/18/2017	MSA SD Training- Adams/Landeros 9/25-26,2017 LGPW#33 Animal Control Veh/AC Repair Supplies/Tubing & Couplings/Water Line Repair PAPA Training - Landeros/Mendoza/Hunt 9/14/17 Repair/Tempest Blower Fire Station Supplies MMA Training/Conference- Evans 10/25/17-10/27/17 CalPELRA 2017 Training Conference/James 12/4/17-12/8/17 Drinking Fountain Parts/LG Park Uniform/Park Ranger- Soto City Locks/Berry St Park Fire Vehicle/Refrigerant-E310 Fire Station Supplies/Oil Absorbent Utility Hose & Nozzle- Fire Station Peak Fire/Dinner- E10 Crew 9/7/17 Cell Phone Charger & Cord Tires/ '05 Ford Expedition/Fire Staff Veh Rental Car/CalOES Reimbursable-Fire Event- Wrisley 8/31-9/15 Wiper Blade for Fire Veh Lock for File Cabinet/Fire Stn APA Design & Density Training- DeVries 9/14/17	150.00 80.00 112.02 360.00 184.70 209.97 325.00 1,035.00 221.52 109.80 132.24 111.47 42.63 75.38 80.63 37.69 408.72 1,098.75 25.85 30.95 15.00	4,847.32
8523	3205164-CA 3205164-CA 3205164-CA 3205164-CA	US HealthWorks Medical Group,PC	10/18/2017	Annual DMV Medical Exam - 9/27/17 Annual DMV Medical Exam - 9/27/17 Medical Exam/Field Physical - 9/27/17 DMV BAT Medical Exam - 9/27/17	99.00 99.00 201.00 50.00	449.00
8524	9793855745	Verizon Wireless	10/18/2017	Moderns- Cardiac Monitors - 9/4/17-10/3/17	14.10	14.10
8525	11-1176245-1	Vortex Industries, Inc.	10/18/2017	Front Door Repair- Community Center	485.00	485.00
8526	10458	AdminSure	10/25/2017	Workers' Compensation Claims Administration - Nov '17	427.50	427.50
8527	17-746	Bartel Associates, LLC	10/25/2017	Prof Svcs: Sep '17/Actuarial Consult Svcs-CLG GASB68 Report	1,500.00	1,500.00
8528	26208-3	Brobeck,West,Borges,Rosa & Douville LLP	10/25/2017	Prof Svcs: George Hills # GHC0015650 thru 9/30/17	871.10	871.10
8529	17848726	Canon Financial Services Inc	10/25/2017	Canon Plotter Contract Charge Oct '17	144.00	144.00
8530	694405602 694405603	Cintas Corporation #694	10/25/2017	Janitorial Supplies - 10/19/17 Janitorial Supplies - Disinfectant- 10/19/17	213.06 129.28	342.34
8531	1841	Clothing International, Inc.	10/25/2017	CLG Lanyards - Employee Appreciation Event 10/19/17	336.01	336.01
8532	10/18/2017	Cox Communications	10/25/2017	City Manager/Copy Room Fax Line- 10/18/17-11/17/17	4.60	4.60
8533	DeJohnette	DeJohnette, Michelle	10/25/2017	Refund/DeJohnette, Michelle/Partial Deposit - LBH- 10/14/17	100.00	100.00
8534	0917.07.1446	Dexter Wilson Engineering, Inc.	10/25/2017	Metro JPA Wastewater Issues - Sep '17	12,647.50	12,647.50
8535	Eddington	Eddington, Jamila	10/25/2017	Refund/Eddington, Jamila/Deposit - Courtyard- 10/14/17	300.00	300.00
8536	Reimb 10/24	Evans, Miranda	10/25/2017	Reimb: Supplies for Employee Apprec Event/Berry St Pk 10/19	80.65	80.65
8537	25657	Excell Security, Inc.	10/25/2017	Senior Center Security Guard - 10/14/17	79.84	79.84
8538	5-959-54719	Federal Express	10/25/2017	Shipping Charges- 9/29, 10/4, 10/11	123.50	123.50

8539	168	Felix Backflow Prevention	10/25/2017	Backflow Installation - Senior Center	3,660.00	3,660.00
8540	INV1012455	George Hills Company	10/25/2017	TPA Claims Svc- Sep 17	481.40	481.40
8541	Golden	Golden Bell Products, Inc.	10/25/2017	Refund/Golden Bell Products, Inc/Busi Lic Fees 10/12/17	25.00	25.00
8542	Holiday	Holiday, Gerard	10/25/2017	Refund/Holiday, Gerard/Rental Fee - Gazebo- 10/7/17	100.00	100.00
8543	00047462	Hudson Safe-T- Lite Rentals	10/25/2017	Asphalt In A Can	71.45	71.45
8544	39037	Kennedy Electric	10/25/2017	Electrical Work/Rec Ctr/Backboards	399.00	399.00
8545	123816 123817	Knott's Pest Control, Inc.	10/25/2017	Flea Control- Rec Ctr/Gym Bleachers- Oct 17 Flea Control- Street Div- Yard- Oct 17	95.00 125.00	220.00
8546	1447857	Liebert Cassidy Whitmore	10/25/2017	Prof Svcs: LE050-00200 FLSA Audit thru 9/30/17	4,656.00	4,656.00
8547	4344428	Mallory Safety and Supply, LLC	10/25/2017	Nitrile Gloves/Disposable Respirators	233.81	233.81
8548	Mendibles	Mendibles, Dolores	10/25/2017	Refund/Mendibles, Dolores/Busi Lic Fee Overpaid- 9/25/17	111.00	111.00
8549	PD-36283	Plumbers Depot Inc	10/25/2017	LGPW#32 Svc/Hydraulic Oil Leak/Water Control Valve - GapVax	513.01	513.01
8550	31237462	RCP Block & Brick, Inc.	10/25/2017	Bulk Decomposed Granite- Walking Track- Berry St Park	104.73	104.73
8551	72628731 72656538	Sharp Rees-Stealy Medical Centers	10/25/2017	Medical Exam/Lab Work - 9/25/17 Medical Exam/Lab Work - 9/25/17	10.00 55.00	65.00
8552	8046689508	Staples Advantage	10/25/2017	Office Supplies- City Hall	401.45	401.45
8553	Oct24 17	Vantage Point Transfer Agents-457	10/25/2017	ICMA Deferred Compensation Pay Period Ending 10/24/17	580.77	580.77
8554	0137555-IN	Vavrinek, Trine, Day & Co., LLP	10/25/2017	Accounting Svc- Sanitation Fund Cost Analysis- Aug '17	1,100.00	1,100.00
8555	34862 35201	Vision Technology Solutions, LLC	10/25/2017	Vision Live Subscription Annual Fee 6/27/17-6/26/18 SSL Certificate & Setup Fee- City Website- Jul '17	7,212.00 275.00	7,487.00
8556	A170748-1	Western Environmental Services, LLC	10/25/2017	Asbestos Bulk Sampling - Sheriff's Station	795.00	795.00
8557	Reimb-9/15/17	Wrisley, Chris	10/25/2017	Lodging & Fuel- Line Medic Assignment- NorCal 9/14/17 Wrisley	341.95	341.95
					1,411,295.30	1,411,295.30

**LEMON GROVE CITY COUNCIL
AGENDA ITEM SUMMARY**

Item No. 2
Mtg. Date November 7, 2017
Dept. Public Works

Item Title: Professional Services Agreement with Nichols Consulting Engineers to Update the Pavement Management Program

Staff Contact: Mike James, Assistant City Manager / Public Works Director

Recommendation:

Authorize the City Manager or her designee to negotiate a professional services agreement with Nichols Consulting Engineers to update the pavement management program.

Item Summary:

The City of Lemon Grove last updated its pavement management program (PMP) in 2010. By updating the PMP, an inspection will occur that will evaluate the pavement condition of the 68 centerline miles to calculate a new pavement condition index (PCI) as well as outline the multiple options to repair the street network. The staff report (**Attachment A**) details additional information about the selection process, the proposed scope of work, and staff's recommendation.

Fiscal Impact:

A not to exceed amount of \$58,900 is budgeted in the current fiscal year (Fiscal Year 2017-2018) TransNet Fund (Fund 14-7150).

Environmental Review:

- | | |
|---|---|
| ☒ Not subject to review | ☐ Negative Declaration |
| ☐ Categorical Exemption, Section | ☐ Mitigated Negative Declaration |

Public Information:

- | | | |
|--|---|---|
| ☒ None | ☐ Newsletter article | ☐ Notice to property owners within 300 ft. |
| ☐ Notice published in local newspaper | ☐ Neighborhood meeting | |

Attachments:

- A. Staff Report
- B. Resolution
- C. Draft Scope of Work

LEMON GROVE CITY COUNCIL STAFF REPORT

Item No. 2

Mtg. Date November 7, 2017

Item Title: Professional Services Agreement with Nichols Consulting Engineers to Update the Pavement Management Program

Staff Contact: Mike James, Assistant City Manager / Public Works Director

Background:

The City of Lemon Grove last updated its pavement management program (PMP) in 2010. Since then staff used the schedule and treatment types called for in the PMP to make up the list of streets treated as a part of its annual street rehabilitation capital improvement project.

Similar to the process followed in 2010, an update to the PMP will evaluate the condition of the 68 centerline miles to calculate a new pavement condition index (PCI) in order to prepare a five year plan to repair the City's street network.

Discussion:

On August 15, 2017, the City Council authorized staff to advertise a request for proposals to update the pavement management program. The advertised scope of work requested that the selected consultant will review all historic data about the city's pavement management program, evaluate the current street conditions, create a five-year list to treat the City streets utilizing all anticipated funds, and provide software training to city staff to manage the program during the five-year period.

On September 20, 2017, staff received three proposals. The name of each company and its office location is listed in the table below.

Name	Location
Dynatest North America, Inc.	Ventura, California
Infrastructure Management Services	Tempe, Arizona
Nichols Consulting Engineers	Fountain Valley, California

An evaluation committee formed with City staff evaluated each of the three proposals per the criteria listed in the request for proposals. Staff concluded that of the proposals received, Nichols Consulting Engineers (NCE) was the most qualified firm. NCE's level of local government experience, listed project team professionals, understanding of available funding sources available to cities, and institutional knowledge of Lemon Grove made it the most qualified company to perform the PMP update.

The major components of NCE's proposed scope of work (**Attachment C**) include a field survey of existing streets, calculating the PCI for each street segment, updating the maintenance and rehabilitation history of past treatments, develop strategies to maintain and rehabilitate the street network moving forward, creating a budgetary analysis with multiple scenarios for the City Council to consider, link all roadway data to the City's existing GIS with the integration of Streetsaver, and lastly perform training for City staff.

Attachment A

Lastly, NCE will perform non-destructive pavement deflection testing to evaluate the subsurface or structural capacity of the existing pavement. This process will primarily focus on the City's regional arterial and collector streets with "spot testing" throughout the city's street network. Deflection testing is a means to help prevent under or over designing a recommended street treatment option. This will help to provide the most cost-effective solutions to treat the City's streets that fall into those categories.

The final report from NCE will be a five-year planning document, with multiple funding scenarios based on current information, that staff will be able to utilize when designing and constructing its annual street rehabilitation projects.

Conclusion:

Staff recommends that the City Council adopts a resolution (**Attachment B**) authorizing the City Manager or her designee to negotiate a professional services agreement to Nichols Consultant Engineers to update the Pavement Management Program.

Attachment B

RESOLUTION NO. 2017 -

RESOLUTION OF THE CITY COUNCIL OF THE CITY OF LEMON GROVE, CALIFORNIA AWARDING A PROFESSIONAL SERVICES AGREEMENT TO NICHOLS CONSULTING ENGINEERS TO UPDATE THE PAVEMENT MANAGEMENT PROGRAM

WHEREAS, the City advertised a request for proposals to update the Pavement Management Program (Agreement/Contract No. 2017-30) on August 16, 2017; and

WHEREAS, three proposals were received on September 20, 2017; and

WHEREAS, staff concluded that Nichols Consulting Engineers level of experience, technical competence, and listed project professionals made it the best firm to provide the project services for the City; and

WHEREAS, staff determined a project budget not to exceed \$58,900 is warranted; and

WHEREAS, the City Council finds it in the public interest that an agreement for professional services be awarded to Nichols Consulting Engineers to update the pavement management program;

NOW, THEREFORE, BE IT RESOLVED that the City Council of the City of Lemon Grove, California hereby authorizes the City Manager or her designee to negotiate and execute a professional services agreement with Nichols Consulting Engineers to update the City's pavement management program.

/////
/////



Technical Approach and Timeline

In 2010, the City implemented a new PMP with the StreetSaver® software; previously, the City used Pave PRO Manager with the data being managed through the form of Excel spreadsheets. This information was used to assist the City in making cost-effective decisions in selecting streets for repair, as well as to comply with TransNet requirements.

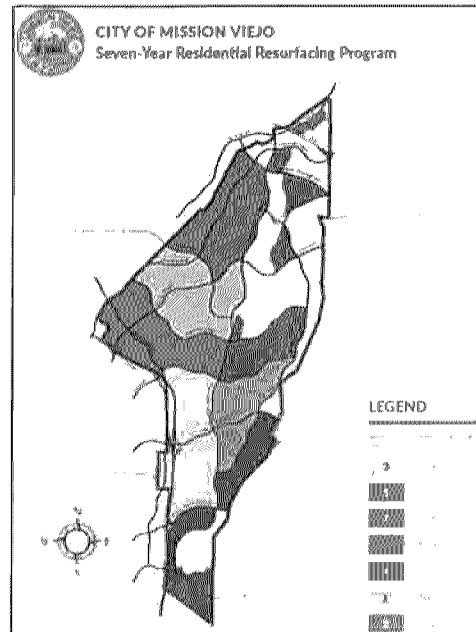
Since then, the PMP has been updated with maintenance history, but no field condition surveys have been conducted. Additionally, street funding has been very limited and the average PCI of 61 (in 2010) has continued to deteriorate. It was estimated that \$1.6 million annually would be needed to maintain the PCI; the reality is that less than half that amount was available in the last seven years.

However, with the advent of Road Maintenance and Rehabilitation Act (SB1) funding, which is expected to add approximately \$450,000 annually beginning in FY 2018/19, and potentially a new sales tax measure, the City may be able to receive more funding for its roads. Therefore, the PMP will be instrumental in assisting the City in developing funding scenarios, as well as five-year work plans that are practical and cost-effective.

Ideally, the PMP should be used to prepare a multi-year maintenance plan, which consists of a rotating maintenance schedule using a zone improvement approach. This is similar to the approach used by other cities, as it optimizes construction costs by reducing mobilization and minimizes disruptions to businesses and residents. NCE has prepared similar analyses, most recently for the City of Mission Viejo, which has seven residential zones (see map on the right).

It is our understanding that the City wishes to consider alternate PMP software, such as StreetSaver®. Therefore, NCE has included a task to discuss alternate software solutions so that the most appropriate software will be selected. Specifically, NCE's scope of work includes the following:

- Software assessment to determine the most appropriate PMP software for the City
- Update and verify inventory data for the entire street network of 68.7 miles
- Collect pavement condition data as per ASTM D6433
- Perform rigorous QC for data control and delivery
- Determine the PCI
- Review current procedures for pavement maintenance, available resources, historical expenditure levels, and the desired service level of the street network
- Recommend and update unit costs and maintenance treatments based on City policies



Attachment C



Technical Approach and Timeline

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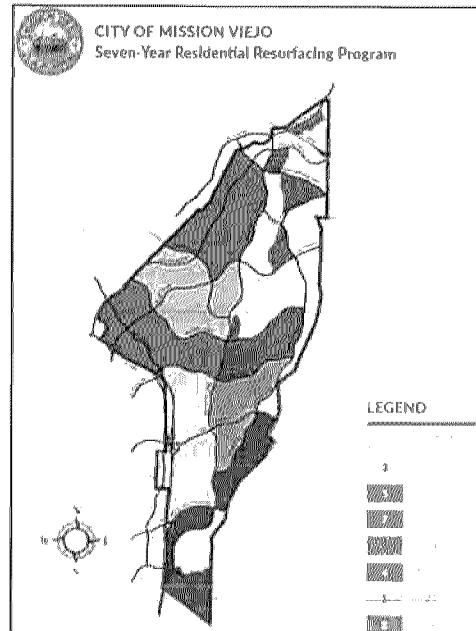
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- ❖ Collect pavement condition data as per ASTM D6433
- ❖ Perform rigorous QC for data control and delivery
- ❖ Determine the PCI
- ❖ Review current procedures for pavement maintenance, available resources, historical expenditure levels, and the desired service level of the street network
- ❖ Recommend and update unit costs and maintenance treatments based on City policies



- ☛ Perform multiple funding scenarios
- ☛ Develop a multi-year improvement plan
- ☛ Link the PMP database to a GIS
- ☛ Train City staff on use of PMP software and GIS linkage
- ☛ Make a presentation to City personnel and/or elected officials.

The following sub-sections provide NCE's approach and proposed schedule to complete the scope of work.

Technical Approach

Task 1. Kick-Off Meeting

NCE will meet with City staff to kick-off the project and the items to be discussed, at a minimum, include:

- ☛ Scope of work, project schedule, budget and invoicing requirements
- ☛ Points of contacts
- ☛ PMP software options
- ☛ Field work
- Scheduling and access requirements for field work
- Public safety concerns, requirements and procedures
- QC Plan
- List of publicly maintained streets (as well as privately owned)
- ☛ M&R practices, historical records and costs
- ☛ Maintenance budgets
- ☛ GIS shapefiles
- ☛ Available maps and other relevant data
- ☛ Other issues as appropriate.

Prior to the kickoff meeting, NCE will prepare a detailed agenda which will be sent to City staff for review prior to the meeting. Examples of the questions we anticipate discussing include:

- ☛ New streets that need to be added.
- ☛ Functional classifications, e.g., do they match FHWA classifications? And if not, should they be changed?
- ☛ Software selection – NCE will assist the City in determining if StreetSaver® is still the most appropriate software. Typical criteria we will use in this assessment include:
- Cost of software and future upgrades
- Ease of operation
- Security and access issues



Attachment C

- Technical support availability – online, phone, or on site
- User support meetings, including training for city staff
- Inventory data collected, e.g., geometric, surface types, functional classifications, cul-de-sacs, geographical or political boundaries, digital images, or files associated with street
- Condition data collected, e.g., pavement distress, International Roughness Index (IRI), drainage
- Integration with other transportation assets, e.g., sidewalks, curbs and gutters, storm drains, signs
- M&R strategies, including sustainable pavement policies
- Historical data, e.g., construction, M&R, condition data
- Pavement performance curves – are they appropriate for the City?
- Remaining service life
- Funding analyses – different funding scenarios (“what if” analyses), committed projects, packaging projects, zone type analysis
- Other data needs, e.g., pavement structural sections, traffic
- Linkage to GIS maps and ability to create exhibits for presentations and City Council
- Ability to create custom reports/export to other programs.

Typically, there is no one perfect software program that will meet all of the City’s needs. However, through a process where the different criteria are weighted, NCE will assist the City in making tradeoff decisions and arrive at a software program that will best meet your needs. The table below is an excerpt from a recent assessment performed with the City of Thousand Oaks.

Software Attributes / Features	MicroPAVER	StreetSaver	Cartograph
Vendor	U. of Illinois / APWA	MTC	Cartograph
Current Version	7	9	8.2 (Pavement View)
Online Version available?	No	Yes	No
Annual Cost	\$1100 (discount available to APWA members)	\$1,500	\$5000+ \$1400 annual maintenance
User's knowledge	None	2/year (Northern & Southern CA)	3-5/year Usually Iowa
Technical Support	List serv/email/phone	Online/phone/email	Online/phone/email
Analysis period (yrs.)	5-20	5-30	7-30
Constrained budgets	Yes	Yes	Yes
"What-if" scenarios	Yes	Yes	Yes
\$ to maintain PCI	Yes	Available in 2011	Iterative procedure
Packaging of projects	No	Yes	Yes
Completed projects	No	Yes	Yes
Backlog/deferred costs	Yes	Yes	Yes
Setup/proc costs	Yes	Yes	No

After the City selects the software, NCE will populate the database with the City’s street inventory and historical information.

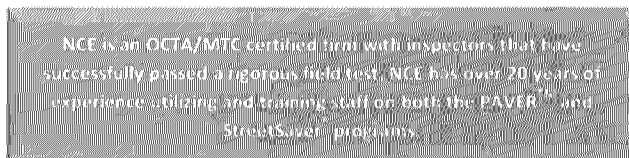
Additional meetings will be held with City staff at appropriate milestones to review the work performed and to address questions or issues that arise as the work progresses. As part of NCE’s project management, monthly progress reports will be prepared and submitted to the City.

Deliverables:

- ☞ Meeting agenda and summary of meeting
- ☞ Draft QC plan
- ☞ Selected PMP Software (one year license).

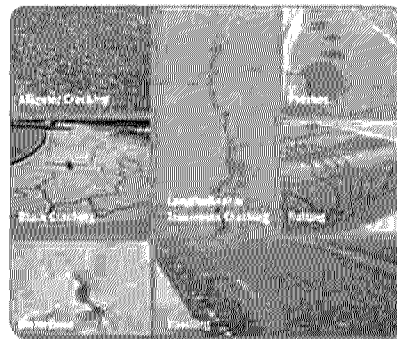
Task 2. Field Surveys and PCI Calculations

NCE will perform distress collection surveys on the City's street network of 68.7 centerline miles as per ASTM D6433-11. The pavement distresses present are reflective of the traffic levels, as well as the local environment and climate (see photo below).



Should City personnel wish to observe NCE's crews during the surveys, we can accommodate them.

Note that this scope of work and condition surveys do not address issues including, but not limited to traffic, safety and road hazards, geometric issues, road shoulders, sidewalks, curb and gutters, drainage issues, or short-term maintenance that should be performed.



Functional class – If desired, NCE will convert the current street classifications to the current FHWA designations and review the priorities for the analysis. This will allow the City to easily determine the streets that are eligible for federal funding in the future. In addition, the MAP-21 performance measures indicate that any roads with a speed limit greater than 40 miles per hour (mph) and designated part of the National Highway System, will require roughness data in the form of the International Roughness Index (IRI). NCE recommends that any routes on the National Highway System be identified in the PMP database if this has not yet been performed. The most current California Road System (CRS) maps will be used for this determination.

Data entry and PCI calculations – The data collected from the condition surveys will be downloaded into the PMP database. This task will be performed at NCE's office in order to provide QC of all data entered into the system. NCE will perform the PCI calculations and correct any errors found.

QC plan – QA/QC checks are critical when a large amount of data needs to be collected and processed. As part of NCE's goal to provide a superior quality product for our clients, we incorporate a QA/QC component into all of our projects. For this project, we have proposed the inclusion of a QC Manager, Ms. Margot Yapp, PE. She will have the following project responsibilities:

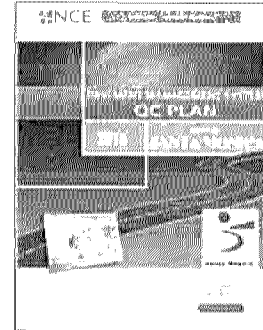
- ☞ Calibration of data collection activities
- ☞ Review of field activities, including spot checks on the field crews
- ☞ Reviewing field procedures and making changes as needed
- ☞ Comparing the field data collected with on-site conditions

Attachment C

- Review of data entry functions, including random spot checks
- Review of reports generated and analyses performed to ensure a quality product.

In addition, NCE will prepare a QC plan that will include the following components:

- Description of condition survey procedures (distress types, severities). The procedures, changes, or modifications should be well documented in the QC plan, so that future updates will be consistent.
- Accuracy required for data collection or acceptability criteria. Typical examples include accurate identification of distress types 95% of the time or 90% of re-inspected sections must be within ± 10 PCI points.
- Description of how data will be checked for accuracy, e.g., 5% re-inspections.
- Comparison of past and current PCI ratings, e.g., if the difference in PCI is more than two to three points per year, then NCE will research the cause, which may be unrecorded maintenance, premature pavement failures, or incorrect survey data.



A draft QC plan will be submitted to the City for approval and no field work will commence until a final plan has been accepted.

Deliverables:

- Final QC Plan
- Updated functional classifications in PMP database
- PCI report/priority listing
- Updated PMP database.

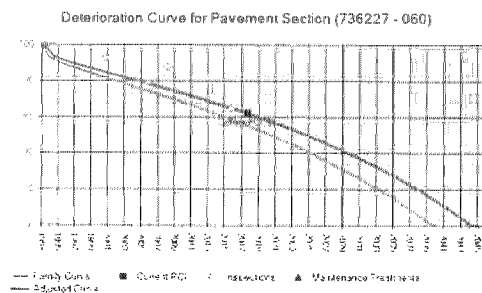
Task 3. Maintenance and Rehabilitation (M&R) History

Populating the PMP database with recent M&R historical data is extremely useful for determining future treatments and predicting performance of the various pavement sections. The chart is an example of the StreetSaver® software creating a custom performance curve from historical data.

M&R activities, e.g., overlays, reconstructions, and surface seals, that have occurred since 2016 will be entered into the PMP database. The M&R historical records must include the street name, beginning and ending limits of work, and type and date of treatment.

Deliverables:

- M&R history report.



Task 4. Maintenance and Rehabilitation (M&R) Strategies

NCE will review M&R strategies with City staff that include the recommendation and selection of appropriate treatments, such as cape seals or overlays, and the determination of treatment unit costs. Additionally, this will be an appropriate time to review the use of new/sustainable treatments or materials, such as rubberized asphalt, rubberized chip or cape seals, micro-surfacing, rejuvenators, cold-in-place recycling, full-depth reclamation, or warm mix asphalt.

NCE's experience in pavement engineering and design, as well as local conditions, allows our staff to be able to provide the City with solutions that are innovative, sustainable, practical, and workable. *For example, we recently worked with Chula Vista to develop strategies for implementing "cool pavements."*

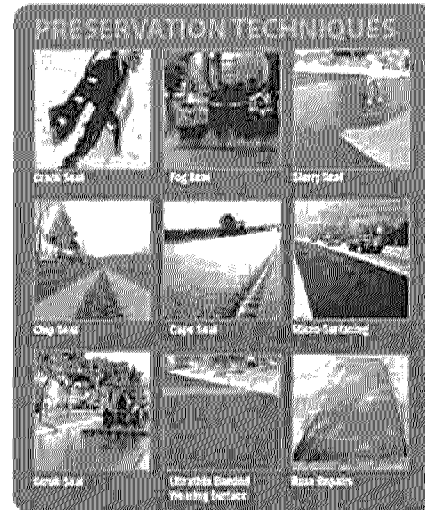
Development of the M&R decision tree is a critical step in a pavement management update as it has a direct and significant impact on the final work plan that is developed, as well as the budgeting consequences. The M&R alternatives are used to determine effective treatments for each street section based upon criteria, such as condition, pavement type, and functional class. Once these M&R alternatives are defined, a treatment unit cost will be determined for each alternative. These alternatives and costs will then be entered into the PMP database for budgetary analyses.

Since paving construction costs have increased dramatically since 2004 (as much as three times in some cases), NCE strongly recommends that this be performed prior to budget analyses.

The unit costs will have a huge impact on the City's projections or needs assessments. Therefore, NCE will review the recent bid tabs, together with those from neighboring cities as appropriate. Additionally, unit prices will be fully-loaded rates and will include contractors' prices and design, inspection, and testing costs.

Deliverables:

- Updated M&R strategies and decision tree.



Task 5. Budgetary Analysis and Reports

NCE will next perform a **Budget Needs** analysis using an analysis period to be determined by the City (assumed to be five years). This will identify M&R requirements for each road section and determines the total M&R requirements over the entire analysis period. The costs are then summed for the entire period. This forms the basis for performing Budget Scenario evaluations, which optimize the street sections for repair under constrained budgets.

The **Budget Scenarios** evaluation prioritizes sections for repair under constrained, realistic, budgetary assumptions.

Multiple budget- or target-driven scenarios will be performed after discussion with City staff. Examples of typical scenarios include:

In simple terms, the Budget Needs analysis answers the questions: "If I have unlimited funding for street maintenance and repair, which streets should I fix? When should I fix them? What treatments should I apply? How much will it cost?"

Simply put, this module answers the question: "If I only have limited funds for street maintenance and repair, which streets have the highest priority for repairs, when should I perform the repairs, and how much will it cost?"

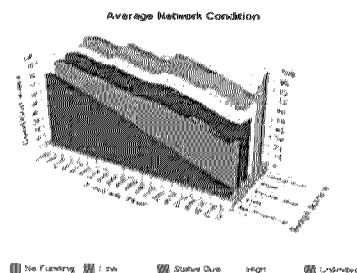
Attachment C

- Impacts of existing funding levels
- Impacts to model drops in funding
- Impacts if there are increases in funding levels, e.g., impacts of SB1, which is expected to add as much as \$450,000 a year by FY 2018/19
- Funding required to maintain certain PCI levels.

The results will be used to develop a multi-year rehabilitation program that includes the treatment and when it will be applied to both arterials and residential streets. For the residential streets, a rotating maintenance schedule will be used to optimize construction costs by reducing mobilization and minimizing disruption to residents and businesses.

Upon completion of the previous tasks, NCE will prepare a draft report for the City to review. The report will contain, at a minimum, the following information:

- Description of methodology, findings, and recommendations
- Inventory of all City streets
- Current PCI for all streets compared to 2010 PCI
- Projected PCI for all streets depending on funding available
- Prioritized M&R strategies to achieve different levels of serviceability
- Projected budgets to meet different levels of serviceability
- Projected multi-year rehabilitation work plans
- GIS generated maps (after completion of Task 6)
- StreetSaver® or PMP software parameters.



Upon receipt of the City's comments, NCE will complete the final report for submittal.

Deliverables:

- Draft Report (electronic copy)
- Final Report (three hard copies and one electronic copy)
- Updated PMP database.

Task 6. GIS Linkage

The GIS linkage consists of matching segments in the basemap based on road name, type, and/or direction. Although the procedures may differ slightly for different PMP software, the description below illustrates the procedure using StreetSaver® software as an example.

The GIS Settings Screen is used to create the link between the StreetSaver® database and the basemap. The ShapeFile ID, Street Name, Street Type, and Street Dir fields are selected from the available fields within the base map.

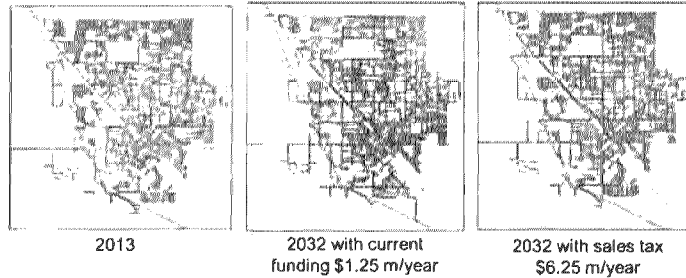
It is assumed that the City has accurate GIS shapefiles that can be used for the linkage. This option is the most accurate as all the streets maintained by the City are included and labeled correctly. Additionally, this takes far less time to link the database

Attachment C

City of Lemon Grove
Request for Proposal No. 2017-30
Pavement Management Program Update

to the shapefile. Built-in queries are available with the toolbox to generate maps or export to shape files. Standard queries include:

- PCI Range by street section
- Future PCI by street section
- Functional classification
- Maintenance treatment history
- Impacts of different budget scenarios
- Sections selected for treatment.



Once linked, powerful maps can be generated within minutes, as shown in the example above. In addition, shapefiles can be exported for other GIS functions within the City.

Deliverables:

- GIS shapefile linked to PMP database.

Task 7. Training (optional task)

As an optional task, NCE will prepare and present one 6-hour training class. The class will cover basic software operations, including how to access the program and setup various user accounts, and provide an overview of the features available. Areas to be covered will include:

- Creating or editing street sections
- Entering M&R treatments
- Revising the M&R decision tree
- Performing budget needs/scenarios
- Project selection tools
- Needs analysis
- Generating reports
- Pre-defined reports
- Budgetary reports
- Custom reporting tool
- Generating GIS maps.

All materials for both classes will be provided by NCE. It is assumed that the class will be conducted on-site and will include no more than three staff members. It is assumed that computers and a training room with WI-FI access will be provided by the City.

Attachment C

NCE has prepared and trained over 100 agencies in California and Nevada on both the PAVER™ and StreetSaver® software since 1997. This includes developing all the training materials, ensuring interaction in the training, and conducting the training. We are confident that we can train City personnel to successfully maintain the software in the future.

Deliverables:

- Training manuals for City staff
- One 6-hour training class.

Task 8. Subsurface Investigation (optional)

NCE will perform non-destructive pavement deflection testing to evaluate the subsurface or structural capacity of the existing pavement as desired by the City. NCE owns and operates a Falling Weight Deflectometer (FWD), which is a conceptually simple, yet powerful device for measuring the response of pavements under simulated wheel loads and estimating their subsurface and structural capacities. The test procedures are in accordance with California Test Method (CTM) 356.

Deflection testing can quickly and cost-effectively measure in-situ pavement section strength and can identify structural deficiencies for a given traffic loading and future expected traffic growth, which can help reduce the chance of under designing or over designing pavement rehabilitation. Streets identified for reconstruction can sometimes indicate that reconstruction is not necessary and more cost-effective rehabilitation alternatives are feasible.



However, deflection testing is a PROJECT-level design tool and is intended to be used for pavement designs and preparation of construction documents (PS&E). PMPs, however, are a NETWORK-level tool and are intended for programming, planning, and funding analyses. Deflection testing to support a network-level analysis is expensive and not necessary; in addition, the data is extremely time-sensitive and is usually obsolete within one to two years. Therefore, NCE does NOT recommend the use of deflection testing or coring for the entire network in a PMP update.

Instead, NCE recommends that it be used only after candidate street sections have been identified in Tasks 5 and 6. In particular, streets that are in good condition (e.g. PCI >70) are structurally adequate and rarely need to be tested. In 2010, approximately 40 percent of the network was in good condition and therefore may not require testing. If so, the cost for this task will be reduced. For this cost proposal, we have assumed that up to two centerline miles of arterials and/or collectors will be tested.

Task 8A. Pavement Deflection Testing

NCE will perform non-destructive pavement deflection testing in accordance with California Test Method (CTM) 356 to evaluate the structural capacity of the existing pavement section on rehabilitation streets. This scope of work includes pavement deflection testing on the street sections identified. For arterials and collectors, both travel lanes will be tested, and testing intervals will be typically 150-200 feet and staggered at approximately one-half the test interval length in adjacent lanes or the opposite lanes of traffic. Approximately one day of testing will be required.

NCE will arrange for traffic control services during the deflection testing to minimize any inconvenience to traffic, parking and public access. Traffic control will conform to the latest standards contained within the Manual of Uniform Traffic Control Devices (MUTCD) Part VI and the Caltrans Traffic Manual Chapter 5 "Traffic Control for Construction and Maintenance Work

Attachment C

City of Lemon Grove
Request for Proposal No. 2017-30
Pavement Management Program Update

Zones," as well as any local requirements that exist. We understand from the City that pavement deflection testing will not require an encroachment permit.

Task 8B. Pavement Coring

Deflection testing needs to be coupled with knowledge of the pavement structural section (i.e. thickness of asphalt concrete) before meaningful analysis can be performed. One day of coring has been budgeted in order to obtain eight cores on arterials and collectors. The cores will be 4 inches in diameter, and core holes will be filled with Rapid Set concrete.

Task 8C. Pavement Designs

Using the data obtained in Tasks 8A and 8B, NCE will perform network level pavement analysis to develop pavement rehabilitation and reconstruction recommendations for each street. NCE will develop recommendations including, but not limited to, the following:

- Reconstruction
- Hot Mix Asphalt (HMA) over Aggregate Base (AB)
- Full Depth HMA
- FDR
- Conventional Hot Mix Asphalt (HMA)
- Rubberized Hot Mix Asphalt (RHMA)
- Warm Mix Asphalt (WMA)
- Alternative rehabilitation methods if feasible (in-place recycling, mill & fill treatments, etc.)
- Locations and treatments of failed pavement sections (base repairs)
- Full-width milling and wedge grinding requirements
- Surface seal treatment including both slurry and rubberized cape seals

NCE will then summarize its recommendations in a pavement design report to the City that, at a minimum, will include the following:

- Description of testing procedures
- Results of deflection testing and coring
- Description of analysis performed for the project
- Recommended alternatives for pavement reconstruction, rehabilitation, and preventive maintenance

NCE will submit the preliminary pavement designs report to the City for initial review. Upon receipt of any comments from the City, NCE will then prepare a final pavement design memorandum, and two (2) copies will then be provided to the City.

Deliverables:

- Pavement Design Report

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Timeline

NCE estimates that it will require 13 weeks from receipt of a notice to proceed to complete this project.

Task Description	Weeks from Notice To Proceed												
	1	2	3	4	5	6	7	8	9	10	11	12	13
1. Kickoff Meeting													
2. Condition Surveys													
3. M&R History													
4. M&R Decision Tree													
5. Budgetary Analysis & Reports													
<i>Draft Report</i>													
<i>City Review</i>													
<i>Final Report</i>													
6. Update GIS Link													
7. Training (optional)	At City's convenience												
8. Subsurface Analysis (optional)													

Assumptions

Tasks 2 and 8 assume no weather delays.

Task 5 assumes 2 week review period by City.

Task 8 assumes one mobilization.

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Task Description	Hourly Breakdown by Personnel							Total Cost
	Project Manager	QC/QA Manager	Snr Engineer	Project Engineer	Senior Technician	Clerical	Deflection Testing/Coring /Traffic Control	
1. Kickoff Meeting	6	8						\$ 4,200
2. Condition Surveys	4	2		8	108			\$ 16,200
3. M&R History	2			8				\$ 1,400
4. M&R Decision Tree	8			8				\$ 3,900
5. Budgetary Analysis & Reports	8	4		40		4		\$ 8,000
6. Update GIS Link	2			8	12			\$ 2,700
Totals	19	14		64	108	4		\$ 33,700
Optional Tasks								
7. Training (optional)	12					4		\$ 3,300
8. Subsurface Analysis (optional)								
<u>Arterials & Collectors (2 miles)</u>								
Deflection Testing & Coring	4			8	16		\$ 10,985	\$ 15,200
Analysis	2	4		40				\$ 6,700
Totals for Optional Tasks	18	4		48	16	4	\$ 10,985	\$ 25,100

Assumptions:

Meetings are included in Tasks 1, 5, and 7.

Task 1 includes cost of 1 year PMP software license.

Task 2 assumes a total 68.7 miles. Includes 5% reinspection for QC and field training for City staff at no additional cost.

Task 3 assumes M&R history since 2010. Up to 8 hours have been assumed.

Task 8 assumes one-time mobilization; 1 day of coring and traffic control included.

NCE
Firm Name

October 17, 2017
Dated

Signature of Contractor

Margot Yapp, PE, Vice President
Printed Name and Title