

# Memorandum

# **On-Street Parking System Modernization Plan Summary**

**Date:** July 17, 2020

**To:** Darnell Brown, Chief of Staff

Michael Cox, Public Works Director

Kim Johnson, Parking Commissioner/Assistant Director of Public Works

**City of Cleveland** 

**From:** Greg Shumate, Senior Associate

**DESMAN** 

#### SUMMARY OF THE SYSTEM MODERNIZATION PLAN

The on-street parking system modernization plan, which we have developed in partnership with the City's project taskforce, is comprehensive. The proposed changes are recommended to be implemented in at least two major phases.

**Phase I** will impact the entirety of the downtown area and parts of University Circle and Ohio City where existing single space meters are to be replaced with multi-space credit card enables pay station kiosks. Additionally, a \$0.50 per hour rate increase (i.e. to \$1.50 per hour) for on-street meter parking is also proposed, but only for the downtown. The implementation of Automatic License Plate Recognition (ALPR) enforcement and the establishment of a system-wide pay-by-phone service platform is also proposed as part of Phase I.

**Phase II** will involve the installation of new multi-space credit card enabled pay station kiosks in place of existing single space meters in parts of 8 different neighborhood areas and the introduction of the same new pay stations in a number of other areas across the city where paid on-street parking does not currently exist. All the hourly parking rates in the neighborhoods outside of the downtown would be uniformly be raised to \$1.00 per hour and a series of other programmatic changes will also need to be implemented. Phase II must take into account the fact that the eventual implementation of the proposed neighborhood initiatives will have to be preceded by some yet to be defined measures to involve community organizations and their respective City Council representatives.

The basic elements of the plan comprise a suite of best parking industry practices and strategies that have been deployed for several years in peer cities like Pittsburgh, Detroit, Columbus, Indianapolis, and Cincinnati. The web links noted on the chart below offer case examples of the program enhancements being pursued for the City of Cleveland.

Peer Cities	Columbus, OH	Cincinnati, OH	Detroit, MI	Indianapolis, IN	Pittsburgh, PA		
Parking System Brand	THE CITY OF COLUMBUS	CINCY EZPARK Cincy EZPark	Detroit	parkindy,net find your space	Pittsburgh PARKING Authority  Be lider Redig Wassel		
System Website	www.columbus.gov	www.cincyezpark.com	www.parkdetroit.us	www.parkindy.net	www.pittsburghparking.com		
		Downtown En	forcement Hours		35 35		
Monday - Friday	7AM - 3:30AM	9AM - 9PM	7AM - 10PM	7AM - 11PM	8AM - 6PM (M-Th)		
Saturdays	7AM - 3:30AM	9AM - 9PM	7AM - 10PM	7AM - 11PM	8AM - 12AM (F/Sat)		
Sundays	9AM – 1PM	2PM - 9PM	FREE	FREE	FREE		
Holidays	FREE	FREE	FREE	FREE	FREE		
		Downtown Parking M	eter System Hourly Rate	S			
CBD Meter Rates	\$1.00/\$1.50	\$2.75	\$2.75	\$1.50	\$4.00		
Special Event Meter Rates	N/A	\$15		N/A	N/A		



The recommended modernization initiative will involve the acquisition and deployment of leading-edge parking hardware and software technologies and services. Additionally, the enactments of a litany of significant programmatic and regulatory changes tailored to the City of Cleveland's unique urban dynamics will is also be part this proposed initiative.

### **Recommended Procurement of System Hardware and Services:**

- 1. Acquire approximately 526 Multi-Space Credit Card Enabled Pay Station Kiosks (use only one type and brand of smart meter hardware)
- 2. Retain an industry-leading "Pay-By-Phone" Service provider
- 3. Acquire and Equip 6 or more City parking vehicles with the necessary hardware and software (i.e. cameras, server, laptop and cellular connectivity) to perform mobile APLR Enforcement.

### **Recommended Programmatic and Regulatory Changes:**

- 1. Enact a system-wide Rate Increase for On-Street Parking (Limit New Rate Schedule to \$1.00 and \$1.50 Per hour)
- 2. Authorize the expansion of paid parking into some existing metered areas, and in some non-metered areas of the City
- 3. Authorize the establishment of "Pay-by-Phone Only" On-Street Parking Zones
- 4. Adopt and implement "Pay-by-Plate" as the basis for processing all pay-by-phone, and at meter, parking transactions.
- 5. Authorize the Division of Parking Facilities enforcement unit to issue parking violation citations in selected city-owned off-street parking facilities in neighborhood areas where the deployment of multi-space pay station kiosks are recommended for revenue collection.
- 6. Extend the hours for paid on-street parking and enforcement until 9:00 PM on Fridays in downtown and selected entertain areas in neighborhoods outside of downtown.
- 7. Require payment and enforcement of on-street parking meters on Saturdays in selected areas between 9:00 AM and 9:00PM (note: enforcement between 12:00 PM to 9:00 PM is also a practical labor cost saving alternative that could also be considered)
- 8. Enactment of legislation that would allow for the establishment of Special Event Parking Zones in the downtown area where fixed premium rates within the range of \$10.00 to \$25.00 could be charged within on-street parking zones during particular special event date(s) and timeframe(s).
- 9. Discontinue the current practice of issuing vehicles decal to Residential Parking Permitholders, and instead issue "Virtual Residential Parking Permits" keyed to the license of the permitholder's vehicle.

### THE RECOMMENDED MODERNIZATION PLAN RATIONALE

- 1. Make the public's experience with on-street parking more customer friendly and convenient.
- 2. Eliminate the blighting impact of single space meter hardware collected and serviced within pedestrian right-of-way zones.
- 3. Reduce the expenditure of time and expense associated with the collection, maintenance, and service of single space meters.
- 4. Improve the efficiency, effectiveness, and consistency of parking enforcement
- 5. Reduce the expenditure of time and expense of managing the City's existing Residential Permit Parking program
- 6. Enhance the ability of the Division of Parking Services to track and audit the financial performance of the on-street parking system.
- 7. Enhance the ability of the Division of Parking Services to monitor, manage, analyze, anticipate and respond to on-street parking related problems, needs and opportunities as they arise more intelligently.



8. Projected gains in annual system revenue generation can be expected to yield a 2- to 3-year Return of Investment (ROI) of required capital expenditures and sustain the fiscal solvency of the City's onstreet parking system.

### THE PROCUREMENT OF THE NECESSARY PARKING EQUIPMENT AND SERVICES

An All-Inclusive Procurement Solicitation Approach - The modernization of the City's on-street parking system should be couched as a key part of a broader objective to position Cleveland among the growing number cities striving to achieve "Smart City" status. The technological and operational advances that are desired for the meter system will ultimately be linked with other technologically advanced transportation, communication, public safety, and general information platforms designed to promote and facilitate community growth and vitality.

The City needs to approach the acquisition of the needed parking equipment and services as a turn-key package or an all-inclusive solicitation that will include the provision of the following: 1) Multi-space pay station kiosks units and associated system software, 2) ALPR enforcement equipment and software equipment and, 3) A cellular- and web-based electronic payment solution.

DESMAN recommends that the City secure this all-inclusive on-street parking system solution from one entity who will commit to assuming all contractual responsibilities for the delivery, installation, performance and warranty of all specified system hardware and software as well as the provision of ongoing service support specified in this RFP. Proposal submittals from any business enterprise offering to provide only selected products and/or services included in this RFP should be treated as being noncomplaint and should be rejected by the City.

DESMAN feels this approach will reinforce the importance the City places on acquiring a fully integrated package of system equipment and services, that will be delivered on schedule and within budget from one fully accountable entity. The alternative approach to this procurement would be disjointed and more time-consuming. If significant interface and connectivity problems arise during the implementation process, finger pointing among the two or three different contractors would likely occur. The City would clearly be challenged if it had to assign blame and resolve the problems without potentially incurring a loss of both time and money.

#### THE PROCUREMENT BUDGET

The following is an estimate of the probable acquisition and installation costs for the recommended enhancements to the City of Cleveland's parking meter system. The figures do not include going service costs.

CITY OF CLEVELAND METER SYSTEM PROJECT PHASE I Procurement Items	# Units	Estimated Unit Cost	Total	
Multi-Space Pay Station Kiosks (Including shipping, installation, warranty, etc.)	333	\$6,500	\$2,164,500	
ALPR Equipped Enforcement Vehicles (including ALPR cameras and software shipping, installation, service, warranty, etc.)	6	\$40,000	\$240,000	
Pay-by-Phones Services		\$0		
PHASE II Procurement Items				
Multi-Space Pay Station Kiosks (Including shipping, installation, warranty, etc.)	193	\$6,500	\$1,254,500	



#### **RETURN ON INVESTMENT**

The implementation of the recommended changes to the existing on-street parking system can be expected to immediately yield a substantial amount of additional revenue. The gains in revenue will result from the following program consequences:

- 1) the establishment of potentially 1,903 new pay to park on-street spaces across the City,
- 2) the enactment of parking meter rates increases, including new special event parking rates,
- 3) the availability of more convenient payment options and the increased usage of credit cards with higher per transaction payment,
- 4) the extension of paid parking hours on Friday evenings and on Saturdays,
- 5) the end of meter parkers being able to avoid paying by piggyback on vacant but unexpired meters, and
- 6) higher meter payment compliance will occur because of more frequent, consistency and effective mobile ALPR enforcement.

DESMAN projects that the combination of new technologies and services along with the enactment of complimentary the program changes the City of Cleveland has the potential of recovering its capital improvement cost for the proposed program enhancements within a 2- to 3-year period. It is also important to note that comparable results were also realized by the cities of Detroit, Pittsburgh, Indianapolis, and Cincinnati after they completed the implementation of similar program enhancements.



### CITY AREAS TO BE IMPACTED BY THE PROPOSED PARKING METER SYSTEM ENHANCMENTS

The following charts provide a detailed breakdown of the primary system improvements proposed for the City's downtown and neighborhood areas. The charts also reveal which improvement areas are proposed for implementation as part Phase I and Phase II.

## Proposed Meter System Hardware and Enforcement Changes for the Downtown Area (Phase I)

	Proposed On-Street Parking Enhancement Summary										
Downtown (CBD) Plan Subareas		Existing Hardware			New	Estimated	Fridays	Saturdays	Proposed		
	Single	MSM	Total	Parking	MSM	Cost of New	Until	12:00 PM -	Rate		
	Meters	Units	Spaces	Spaces	Units	MSM Units	9:00 PM	9:00 PM	Change		
CBD - Civic Center	261	0	261	261	32	\$208,000	Yes	Yes	\$1.50		
CBD - Civic Center	32	4	32	32	4	\$26,000	Yes	Yes	\$1.50		
CBD - Erieview	104	0	104	74	9	\$58,500	No	No	\$1.50		
Erieview (St. Clair/Superior form E. 18th to E. 24th)	30		30	0	0	\$0					
CBD - Flats East Bank	38	0	38	38	5	\$32,500	Yes	Yes	\$1.50		
Flats East Bank (North)				42	5	\$32,500	Yes	Yes	\$1.50		
Flats East Bank (South)				67	9	\$58,500	Yes	Yes	\$1.50		
CBD - Gateway District	133	0	133	133	17	\$110,500	Yes	Yes	\$1.50		
Euclid Ave. (Public Sq E. 9th)				50	8	\$52,000	Yes	Yes	\$1.50		
Vincent Ave. (E. 6th - E. 9th)				6	1	\$6,500	Yes	Yes	\$1.50		
CBD - North Coast District		0	93	93	12	\$78,000	Yes	Yes	\$1.50		
CBD - Playhouse Square	355	0	355	355	44	\$286,000	Yes	Yes	\$1.50		
Euclid Ave. (E. 14th - E. 18th)				21	3	\$19,500	Yes	Yes	\$1.50		
Huron Rd. to E. 14th				4	1	\$6,500	Yes	Yes	\$1.50		
E. 12th St. (Euclid to Chester)				7	1	\$6,500	Yes	Yes	\$1.50		
CBD - Tower City District	53	0	53	53	7	\$45,500	Yes	Yes	\$1.50		
CBD - University District	372	0	372	349	43	\$279,500	No	Yes	\$1.50		
Superior Ave. (E.18th - E. 26th)	23	0	23	0	0	\$0					
Euclid Ave. (E.17th - E. 24th)				50	7	\$45,500	No	No	\$1.50		
E. 22nd (Chester to Payne)				24	3	\$19,500	No	No	\$1.50		
CBD - Warehouse District	334		334	334	42	\$273,000	Yes	Yes	\$1.50		
CBD - Warehouse District	0	5	40	40	5	\$32,500	Yes	Yes	\$1.50		
Warehouse District				15	2	\$13,000	No	Yes	\$1.50		
SUBTOTAL CENTRAL BUSINESS DISTRICT (CBD)		9	1,868	2,164	260	\$1,690,000					
Phase I - Existing Meters to be Replaced with MSMs	1,775	9	1,815	1,762	220	\$1,430,000					
Phase I - MSMs Units for Proposed New Pay Parking Zones	0	0	0	286	40	\$260,000					
Phase I - Eliminated Single Space Meters	53	0	53								

"Black Text" denotes all existing single space meters spaces to be converted to MSM units. "Red Text" denote existing single space meters to be eliminated. "Blue cells" denote "Projects Proposed for Implementation as Part of Phase I" and "Blue Text" denotes proposed new pay spaces to be controlled by New MSM units.



# Proposed Meter System Hardware and Enforcement Changes for the Neighborhood Areas (Phase I and II)

	Proposed On-Street Parking Enhancement Summary											
Neighborhood SPA Plan Subareas		Existing Hardware		Future	New	Estimated	Fridays	Saturdays	Proposed			
	Single	MSM	Total	Parking	MSM	Cost of New	Until	12:00 PM -	Rate			
	Meters	Units	Spaces	Spaces	Units	MSM Units	9:00 PM	9:00 PM	Change			
Buckeye - Shaker Square	68	0	68	68	9	\$58,500	Yes	Yes	\$1.00			
Larchmere Blvd				66	8	\$52,000	Yes	Yes	\$1.00			
Shaker Square (Shaker Blvd/S. Moreland/E. 130th)				12	6	\$39,000	Yes	Yes	\$1.00			
Shaker Square (Van Aken/Drexmore)				26	3	\$19,500	Yes	Yes	\$1.00			
Shaker Square (Private)				90	5	\$32,500	Yes	Yes	\$1.00			
Central	102	0	102	67	5	\$32,500	No	No	\$1.00			
Community College Ave.				38	5	\$32,500	No	No	\$1.00			
Prospect Ave. (East 30th - East 55th St.)				134	18	\$117,000	No	No	\$1.00			
Central Ave. (East 22nd - East 24th)	35		35	0	0	\$0						
Detroit Shoreway (W. 46th - W. 69th St.)	0	8	64	64	8	\$52,000	Yes	Yes	\$1.00			
Detroit Ave. (W. 61st - W. 64th St.)				23	3	\$19,500	Yes	Yes	\$1.00			
Gordon Sq. Arcade Off-Street Lot				73	3	\$19,500	Yes	Yes	\$1.00			
Gordon Sq. Cleveland Public Theatre Off-Street East Lot				36	2	\$13,000	Yes	Yes	\$1.00			
Gordon Sq. Cleveland Public Theatre Off-Street West Lot				45	2	\$13,000	Yes	Yes	\$1.00			
Gordon Sq. Near Westside Theatre Off-Street Lot				14	1	\$6,500	Yes	Yes	\$1.00			
Detroit Ave. (W. 78th - W. 80th St.)	7		7	0	0	\$0						
Kamm's Corner (Rocky River Dr W. 165th)	51	0	51	51	6	\$39,000	Yes	Yes	\$1.00			
Kamm's Corner Off-Street Lot				116	2	\$13,000	Yes	Yes	\$1.00			
Ohio City	201	0	201	201	22	\$143,000	Yes	Yes	\$1.50			
West 25th St./Detroit Ave.				136	18	\$117,000	Yes	Yes	\$1.50			
West 25th St./Lorain Ave.				151	17	\$110,500	Yes	Yes	\$1.50			
Flats West Bank				135	16	\$104,000	Yes	Yes	\$1.00			
Brooklyn Centre	0	0	0	0	0	\$0						
West 25th St. MetroHealth Campus				19	2	\$13,000	No	Yes	\$1.00			
Old Brooklyn	19	0	19	19	3	\$19,500	No	Yes	\$1.00			
West 25th St./Broadview Ave.				46	10	\$65,000	No	Yes	\$1.00			
Tremont	0	0	0	0	0	\$0						
Professor Ave. (Jefferson to Literary)				100	9	\$58,500	Yes	Yes	\$1.50			
Kenilworth Ave (5 Points)				42	6	\$39,000	No	Yes	\$1.00			
West 14th St. (Auburn Ave.)				35	4	\$26,000	No	Yes	\$1.00			
University (UCI existing meters)	278	0	278	278	31	\$201,500	Yes	Yes	\$1.50			
University (UCI Euclid Ave. MSPMs)	0	7	56	56	7	\$45,500	Yes	Yes	\$1.50			
East Blvd./MLK Blvd./E. 105th/Park Lane				124	14	\$91,000	No	Yes	\$1.00			
Euclid Ave. (Aldelbert to Cornell)				28	4	\$26,000	No	Yes	\$1.00			
Juniper Rd./Mistletoe Dr./Bellflower/E. 115th				46	6	\$39,000	No	Yes	\$1.00			
Little Italy (Mayfield Rd.)				69	9	\$58,500	Yes	Yes	\$1.00			
Little Italy (Cornell Rd.)				13	2	\$13,000	Yes	Yes	\$1.00			
SUBTOTAL NEIGHBORHOOD SPAs		15	881	2,421	266	\$1,729,000						
Phase I Existing Meter Upgrades to MSPMs		15	708	666	73	\$474,500						
Phase II - Existing Meters to be Replaced with MSMs	180	0	180	138	18	\$117,000						
Phase II - MSMs Units for Proposed New Pay Parking Zones	180	0	180	1,617	175	\$1,137,500						
Phase II - Eliminated Single Space Meters	42	0	42									

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### **PROJECT PHASING SUMMARY**

PROJECT PHASING SUMMARY	Future Parking Spaces	New MSM Units	Estimated Cost of New MSM Units
Phase I Existing Meter Upgrades to MSPMs (CBD & Neigh.)	2,428	293	\$1,904,500
Phase I New Pay Parking Zones with MSPMs (CBD Only)	286	40	\$260,000
Phase I - Eliminated Single Space Meters (35)			
PHASE I PLAN SUBTOTALS	2,714	333	\$2,164,500
Phase II - Existing Meters to be Replaced with MSMs	138	18	\$117,000
Phase II - MSMs Units for Proposed New Pay Parking Zones	1,617	175	\$1,137,500
Phase II - Eliminated Single Space Meters (42)			
PHASE II PLAN SUBTOTALS	1,755	193	\$1,254,500
TOTAL PLAN SYSTEM SPACES AND PAY STATION KIOSKS TOTALS	4,469	526	\$3,419,000
Existing Metered Space Upgrade with Pay Station Kiosks	2,566	311	\$2,021,500
New Pay to Park Spaces Served by New Pay Stations Kiosks	1,903	215	\$1,397,500

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