

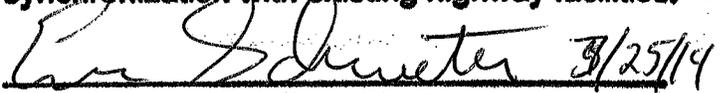


ENGINEERING GROUP P.C.

I do hereby certify that in accordance with the requirements of 23 CFR 635.411(a)(2), this patented or proprietary item is essential for synchronization with existing highway facilities.

Date: March 21, 2014

To: Mr. James Schmidt
District Liaison Engineer, Design
Missouri Department of Transportation
1590 Woodlake Drive
Chesterfield, MO 63017


State Design Engineer

SUBJECT: Brentwood Blvd./Carondelet Ave. Streetscape Project
City of Clayton, Missouri
Federal Project No. STP-5438(609)
Letter of Public Interest Finding

Dear Mr. Schmidt:

The City of Clayton is the local sponsor of the above referenced project to provide streetscape improvements as a continuation of a long term program to provide consistent aesthetics in the city's Central Business District (CBD). Specifically, the proposed improvements are along the north side of Carondelet Avenue from S. Meramec Avenue to Brentwood Boulevard and along the east side of Brentwood Boulevard from Carondelet Avenue to Forsyth Avenue in the City of Clayton, Missouri. The scope of work includes the reconstruction of sidewalk and curbs to include architectural enhancements such as street trees, brick paver strips, and decorative street lighting. Also, the project will include ADA upgrades and new concrete paver crosswalks at the intersections of Brentwood Boulevard with Carondelet Avenue and Forsyth Avenue.

On behalf of the City of Clayton, we request approval of a finding in the public interest to use the following products for the above referenced project:

1. 4 EVR Pedestrian Push Buttons manufactured by Campbell Company
 - o Requested as essential to maintain consistency in the aesthetics of the streetscape within the CBD. This same product was utilized at 43 locations on the Pedestrian Safety Improvement Project, STP-9900(620), which is virtually all of the city-owned pedestrian push buttons.
 - o See Attachment A for product information.
 - o See Attachment J for photo of use within the CBD.
2. Pedestrian Signals manufactured by General Electric
 - o Requested as essential to maintain consistency in the aesthetics of the streetscape within the CBD. This same product was utilized at 138 locations on the Pedestrian Safety Improvement Project, STP-9900(620), which is virtually all of the city-owned pedestrian signal heads.
 - o This product has been previously been approved for the Clayton Pedestrian Enhancement Project, STP-5438(607). See Attachment B for copy of the approved Letter of Public Interest Finding.
 - o See Attachment J for photo of use within the CBD.
3. Brick Pavers for Crosswalks manufactured by Kirchner Block & Brick
 - o Requested as essential to maintain consistency in the aesthetics of the streetscape within the CBD.
 - o This product has been previously been approved for the Clayton Pedestrian Enhancement Project, STP-5438(607) and the Forsyth/N. Meramec Resurfacing Project, STP-5439(604). See Attachment C for copy of the approved Letter of Public Interest Finding for STP-5438(607).
 - o See Attachment J for photo of use within the CBD.

4. Brick Pavers for Brick Paver Strips manufactured by Endicott Clay Products
 - o Requested as essential to maintain consistency in the aesthetics of the streetscape within the CBD.
 - o This product has been previously been approved for the Clayton Pedestrian Enhancement Project, STP-5438(607) and has been used for other streetscape projects over the past twenty years. See Attachment D for copy of the approved Letter of Public Interest Finding.
 - o See Attachment J for photo of use within the CBD.
5. Precast Planters manufactured by Landscape Centre, Inc.
 - o Requested as essential to maintain consistency with the aesthetics of the streetscape project recently completed one block south of the above referenced project.
 - o See Attachment E for product information.
 - o See Attachment J for photo of use within the CBD.
6. Strada Transfer Pay & Display Meters (Parking Pay Stations) manufactured by Parkeon
 - o Requested as essential to maintain consistency with the parking pay stations in use at all 18 locations currently in use in the city, including 2 within the limits of the project.
 - o See Attachment F for product information.
 - o See Attachment J for photo of use within the CBD.
7. Street Light Poles and Accessories manufactured by Sternberg Lighting
 - o Requested as essential to maintain consistency in the aesthetics of the streetscape within the CBD.
 - o This product has been previously been approved for the Clayton Pedestrian Enhancement Project, STP-5438(607) and has been used throughout the CBD over the past twenty years. See Attachment G for copy of the approved Letter of Public Interest Finding.
 - o See Attachment J for photo of use within the CBD.
8. Trash Receptacles manufactured by UltraSite
 - o Requested as essential to maintain consistency in the aesthetics of the streetscape within the CBD as this is the same product used throughout the CBD.
 - o This product has been previously been approved for the Clayton Pedestrian Enhancement Project, STP-5438(607). See Attachment H for copy of the approved Letter of Public Interest Finding.
 - o See Attachment J for photo of use within the CBD.
9. Truncated Domes for Curb Ramps manufactured by Vanguard ADA Systems
 - o Requested as essential to maintain consistency in the aesthetics of the streetscape within the CBD.
 - o This product has been previously been approved for the Clayton Pedestrian Enhancement Project, STP-5438(607). See Attachment I for copy of the approved Letter of Public Interest Finding.
 - o See Attachment J for photo of use within the CBD.

Approval of this request at your earliest convenience would be appreciated. The project is scheduled to be let in April 2014.

Sincerely,



Sean Martin, PE
Senior Project Manager

ATTACHEMENT A

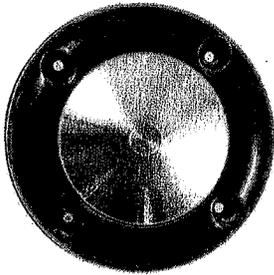
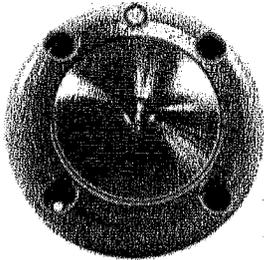


Campbell
Company



PUSH BUTTONS

4 EVR Pedestrian Push Button



FEATURES

- Solid state piezo switch
- Pressure sensitive
- Actuator will not stick
- Virtually vandal proof
- LED and audible tone
- ADA and MUTCD compliant
- 5 year warranty



Verisys
Registrars®
ISO 9001:2008
Certified

 Made in the USA

Overview

4 EVR is digitally controlled and virtually vandal proof. The 4 EVR utilizes a piezo switch element that cannot be stuck in a constant call. An LED and audible tone provide the pedestrian with feedback that a call has been placed.

Feedback options include:

- Latching LED and audible dee dah tone
- Momentary LED and audible dee dah tone
- Momentary audible dee dah tone

The actuator is pressure sensitive and uses no screws or bolts in the functioning areas.

Latch Mode Configurations

The 4 EVR can be configured with latching/momentary or no LED. In the latching mode the pilot light is lit when the call is placed and remains on until the walk display is energized. All pushbuttons on the phase are synchronized. Latching mode requires an ENIM or PBIC.

Enlightened Interface Module (ENIM)

The ENIM mounts in the control cabinet. Field connections from the PPB interface with the load switches and field terminals at the interface module. One ENIM manages up to four phases and 16 push buttons.

Push Button Isolator Card (PBIC)

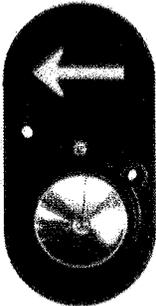
The PBIC fits into a 170 card file and fills two card slots replacing the existing isolator cards in the rack. One card manages up to four phases and 16 push buttons



**Campbell
Company**



PUSH BUTTONS



ABOUT

Campbell Company is the leading American manufacturer of pedestrian signal safety products, accessible pedestrian signals (APS) pedestrian push buttons, signs, and hardware.

ADDITIONAL INFORMATION

More information can be found at: www.pedsafety.com

Feedback	
Visual	Red LED
Audible	Dee 2300 Hz – Dah 2000 Hz
Latching Mode	LED with ENIM/PBIC
Tactile	Optional tactile arrow

Electrical Specifications	
Operating Voltage	TS1 & TS2 (12 – 24 V AC/DC)
Line Voltage	30 V DC - 25 V AC (rms)
Switch Current Max	200 mA
On Resistance	< 20 ohms
Operating Mode	Normally Open
Closure Dwell	120 ms
Maximum Terminal Voltage During Closure	1.5 V
Switch	Piezo electric, solid state switch

Environmental Specifications	
Operating Temperature	-40 C to 80 C
Operating Life	300 x 10 ⁶

ADA Specifications	
Operating Force	< 3 lbf
Actuator size	2 inches

Materials	
Bezel	Aluminum
Actuator	Stainless Steel
Hardware	Stainless Steel
Finish	Powder Coat

Form Factor	
Round	3" OD – 4 hole, 2 hole (9-3, 10-2)
Rectangular	2.8" x 3.4" – 4 hole, 2 hole
Oval	6.8" x 3.4" – 2 hole
Color	Black, Green, Yellow, Natural

Warranty	5 Years
-----------------	---------

ATTACHEMENT B



CDG Engineers Architects Planners, Inc.

July 31, 2012

RECEIVED
AUG 02 2012
BY: _____

One Campbell Plaza
St. Louis, Missouri 63139
T. 314 781 7770 F. 314 781 9075

www.edgengineers.com

Mr. Jim Schmidt
MISSOURI DEPARTMENT OF TRANSPORTATION
Local Roads
1590 Woodlake Drive
Chesterfield, Missouri 63017-5712

RE: City of Clayton
Clayton Pedestrian Enhancement Project
Federal Project No. STP-5438(607)
Letter of Public Interest Finding
CDG Project No. 11073

Dear Mr. Schmidt:

On behalf of the City of Clayton, CDG Engineers hereby requests approval of a finding in the public interest to use Pedestrian Signals manufactured by General Electric for the Clayton Pedestrian Enhancement project.

This project is a continuation of the City's Central Business District Streetscape Improvements. The City plans to improve pedestrian safety along Bonhomme Ave., S. Meramec Ave., S. Central Ave., and Shaw Park Dr. by removing and replacing sidewalks, crosswalks, accessible ramps, streetlights, and street trees.

The City requests that these Pedestrian Signals be used for the following reasons:

1. The City desires to maintain consistency throughout the Central Business District by matching existing streetscape improvements.
2. Utilizing a single type of Pedestrian Signal enables the City to reduce maintenance costs.
3. The City has limited storage capability and must limit their inventory selection.

Approval of this request at your earliest convenience would be appreciated. This project is scheduled for a January 2013 bid opening.

Should you have any questions regarding this submittal, please contact me at 314-446-3527 or rieck@cdgengineers.com. Thank you for your help in this matter.

Sincerely,

CDG Engineers Architects Planners, Inc.

Daniel J. Rieck, E.I.T.
Assistant Project Manager

I certify that in accordance with the Requirements of 28 CFR 635.411 (c)(2), that this Proprietary Item is essential for synchronization with existing highway facilities.

APPROVED:
Kathy Harvey, State Design Engineer

Approved By: _____
Title: _____

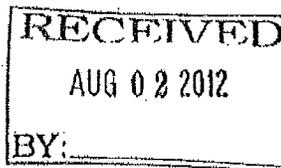
Date: _____

ATTACHEMENT C



CDG Engineers Architects Planners, Inc.

July 31, 2012



One Campbell Plaza
St. Louis, Missouri 63139
T. 314 781 7770 F. 314 781 9075

www.cdgonline.com

Mr. Jim Schmidt
MISSOURI DEPARTMENT OF TRANSPORTATION
Local Roads
1590 Woodlake Drive
Chesterfield, Missouri 63017-5712

RE: City of Clayton
Clayton Pedestrian Enhancement Project
Federal Project No. STP-5438(607)
Letter of Public Interest Finding
CDG Project No. 11073

Dear Mr. Schmidt:

On behalf of the City of Clayton, CDG Engineers hereby requests approval of a finding in the public interest to use Brick Pavers for Crosswalks manufactured by Kirchner Block & Brick for the Clayton Pedestrian Enhancement project.

This project is a continuation of the City's Central Business District Streetscape Improvements. The City plans to improve pedestrian safety along Bonhomme Ave., S. Meramec Ave., S. Central Ave., and Shaw Park Dr. by removing and replacing sidewalks, crosswalks, accessible ramps, streetlights, and street trees.

The City requests that these Brick Pavers for Crosswalks be used for the following reasons:

1. The City desires to maintain consistency throughout the Central Business District by matching existing streetscape improvements.
2. Utilizing a single type of Brick Paver for Crosswalks enables the City to reduce maintenance costs.
3. The City has limited storage capability and must limit their inventory selection.

Approval of this request at your earliest convenience would be appreciated. This project is scheduled for a January 2013 bid opening.

Should you have any questions regarding this submittal, please contact me at 314-446-3527 or rieck@cdgonline.com. Thank you for your help in this matter.

Sincerely,

CDG Engineers Architects Planners, Inc.

Daniel J. Rieck, E.I.T.
Assistant Project Manager

I do hereby certify that in accordance with the requirements of 23 CFR 635.411(a)(2), this patented or proprietary item is essential for synchronization with existing highway facilities.

Kathryn P. Harvey, State Design Engineer

Approved By: _____
Title:

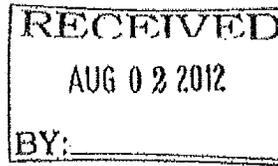
Date: _____

ATTACHEMENT D



CDG Engineers Architects Planners, Inc.

July 31, 2012



One Campbell Plaza
St. Louis, Missouri 63139
T. 314 781 7770 F. 314 781 9075

www.cdgonline.com

Mr. Jim Schmidt
MISSOURI DEPARTMENT OF TRANSPORTATION
Local Roads
1590 Woodlake Drive
Chesterfield, Missouri 63017-5712

RE: City of Clayton
Clayton Pedestrian Enhancement Project
Federal Project No. STP-5438(607)
Letter of Public Interest Finding
CDG Project No. 11073

Dear Mr. Schmidt:

On behalf of the City of Clayton, CDG Engineers hereby requests approval of a finding in the public interest to use Brick Pavers for Carriage Strips manufactured by Endicott Clay Products for the Clayton Pedestrian Enhancement project.

This project is a continuation of the City's Central Business District Streetscape Improvements. The City plans to improve pedestrian safety along Bonhomme Ave., S. Meramec Ave., S. Central Ave., and Shaw Park Dr. by removing and replacing sidewalks, crosswalks, accessible ramps, streetlights, and street trees.

The City requests that these Brick Pavers for Carriage Strips be used for the following reasons:

1. The City desires to maintain consistency throughout the Central Business District by matching existing streetscape improvements.
2. Utilizing a single type of Brick Paver for Carriage Strips enables the City to reduce maintenance costs.
3. The City has limited storage capability and must limit their inventory selection.

Approval of this request at your earliest convenience would be appreciated. This project is scheduled for a January 2013 bid opening.

Should you have any questions regarding this submittal, please contact me at 314-446-3527 or rieck@cdgonline.com. Thank you for your help in this matter.

Sincerely,

CDG Engineers Architects Planners, Inc.

Daniel J. Rieck, E.I.T.
Assistant Project Manager

I do hereby certify that in accordance with the requirements of 23 CFR 635.411(a)(2), this patented or proprietary item is essential for synchronization with existing highway facilities.

Kathryn P. Harvey, State Design Engineer

Approved By: _____
Title: _____

Date: _____

ATTACHEMENT E

LANDSCAPE CENTRE INC.
 #5 - 75 Blue Mountain Street
 Coquitlam, BC, Canada V3K 0A7

Tel : (604)540-0333
 Fax : (604)540-9716
 GST #: 121511943



QUOTATION

Page : 1 of 1
 Order Number : 736961/07
 Order Date : 7/16/2013
 Expected Ship Date :

SOLD TO : CITCLA City of Clayton - Public Works 10 North Bemiston Avenue Clayton MO USA 63105 Tel : (314)290-8551 Fax : (314)863-0296 Attn : Mike DeBarry	SHIP TO : CITCLA City of Clayton - Public Works 10 North Bemiston Avenue Clayton MO USA 63105
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SHIP VIA Exmark	F.O.B. PLANT	Terms COD	Purchase Order Number MIKE	Salesperson H
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Quantity		B.O.	Item Code	Description	Unit	Unit Price	Order Amount
Ordered	Shipped						
12.00	0.00	12.00	PT-LCCP1011-PAINT	Planter LCCP1011 Roll Rim Tall 36" Exposed Aggregate w/ Charcoal Color	ea	511.49	6,137.88
1.00	0.00	1.00	FR-MISC	Freight Misc. **All Prices are Quoted in US Dollars** .Quoted prices are valid for above quantities .Any change in quantity may invalidate the pricing. .Prices are valid for all product(s) .shipped prior to December 20, 2013 .Product quantities are based on customer provided measurements. We are not responsible for any errors on product shipped based on these supplied measurements.	ea	1,764.00	1,764.00
						Sub-Total :	7,901.88
						Total :	7,901.88

Date Payment Type Description / Card Number / Reference

NO RETURNS WITHOUT RECEIPT!
 15% RESTOCKING ON ALL RETURNS!



Patios/Walkways Retaining Walls Veneer Water Gardens Bulk Materials
 Site Decoration Site Furnishings Services Other



[OPEN ALL](#) | [CLOSE ALL](#)

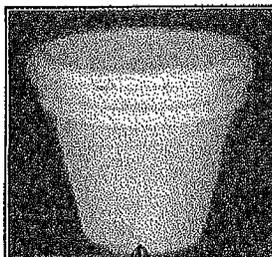
PATIOS AND WALKWAYS
RETAINING WALLS
VENEER
WATER GARDENS
BULK MATERIALS
SITE DECORATION
SITE FURNISHINGS
SERVICES
OTHER

Site Furnishings: Planters

Site Furnishings: Planters

Landscape Centre Inc. has a large selection of the finest planters. These range from smaller planters that you may wish to add to any residential garden/yard to large commercial planters. We carry both concrete and polyspun planters.

Concrete Planters [Polyspun Planters](#) [General Info on Polyspun](#)

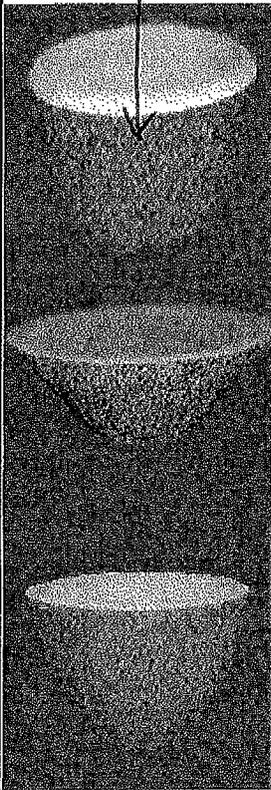


This shape

Rolled Rim Concrete Planters

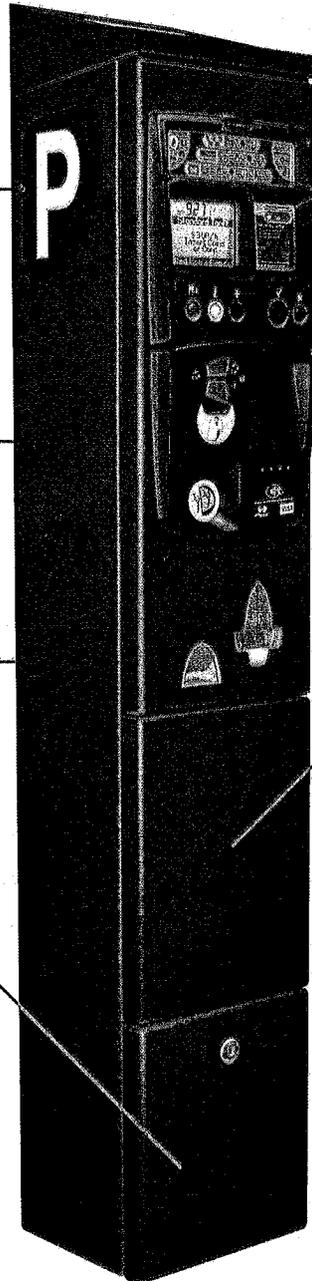
British Columbia's harsh winters can easily destroy traditional Terra Cotta planters. As a result, we offer a durable precast alternative. Available in smooth concrete (custom painted to match your project), light sandblast, or exposed aggregate.

MODEL NO.	DIAMETER	HEIGHT	WEIGHT
LCCP1002	18"	9"	70LBS

	LCCP1003	20"	11"	85LBS
	LCCP1004	23"	12"	100LBS
	LCCP1005	32"	13"	260LBS
	LCCP1006	36"	15"	440LBS
	LCCP1007	16"	13"	70LBS
	LCCP1008	20"	18"	120LBS
	LCCP1009	24"	21"	165LBS
	LCCP1010	32"	26"	375LBS
	LCCP1011	36"	30"	640LBS
<p><i>This finish</i></p> 	Medium Bowls with Lips			
	Flared Planters			
	Tall Pots			
<p>Durable precast concrete planters are available in smooth concrete (custom painted to match any project), and exposed aggregate, finished with acrylic sealer for years of beauty.</p>				
	MODEL NO.	DIAMETER	HEIGHT	WEIGHT
	LCCP1019	15"	17"	85LBS
	LCCP1020	24"	24"	200LBS

ATTACHEMENT F

STRADA TRANSFER



IDENTIFICATION

Integrated solar panel
'P' indicates parking zone
Modular zone indicator
with customizable colors

MAINTENANCE

Optional electronic lock
Exchangeable tool-less
sub-assemblies

ROBUSTNESS

EN 14450
certified housing
Optional shielding kit
Secure locking system

TECHNICAL COMPARTMENT

Mains option
(with/without heating)
Customizable height

USER INTERFACE

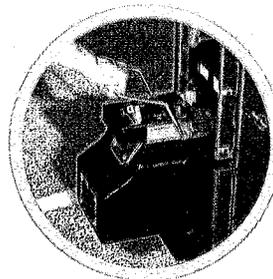
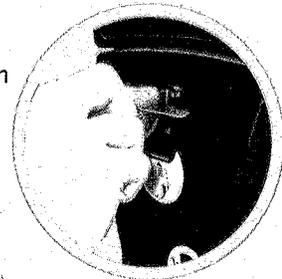
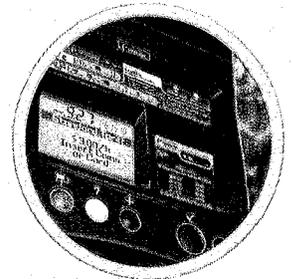
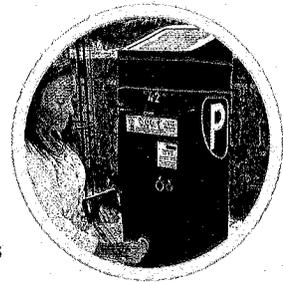
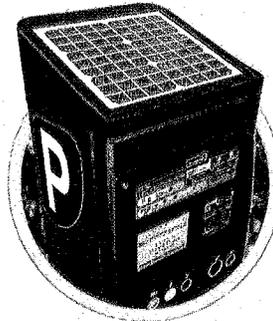
Graphical screen
Informative paper label
Modular functional buttons

PAYMENT MEANS

PCI-DSS Certified
credit card acceptance
Reloadable and disposable
smart cards
High-precision coin selector

CASH COLLECTION

Secure mechanical lock
Transfer collection system



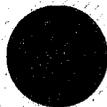
STRADA

TRANSFER

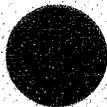
Technical features

Housing

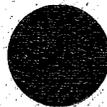
- Size: (HxWxD)
 - 62"x11.4"x11.4"
 - Zone indicators available in 3.5" and 7" to increase height
- Weight: 198 lbs
- Colors:



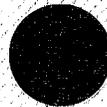
Jet Black



Titanium Grey



Magiç Blue



Moss Green

Temperature

- -13°F to 131°F

Humidity

- 97% humidity relative to 122°F

Display

- Graphic area: 4" x 2.75", 160 x 80 pixels
- Up to 6 lines of 20 characters
- Static area on permanent display (time/date)

Payment

- Coins: Parkeon MSX power-operated selector • 14 types of coin accepted
- Bank cards: PCI-DSS certified
- Smart cards: Reloadable and disposable
- Upgradeable to contactless bank and private cards

Coinbox

- Capacity: 293 cubic inches
- Weight: 7 lbs empty / 55 lbs full
- Secure mechanical locking system
- Coin storage capacity: Up to 3,200 quarters

Power supply

- Solar
- Multi-tension CE/VL mains

Power consumption

- <0.5 mA in standby mode

Security

- Money storage certified to EN14450 Level 2
- Separate maintenance and collection compartments
- Door open detection
- Power tool attack detection
- Additional shielding

Tickets

- Thermal graphic printer
- Standard and Premium tickets
- Horizontal or vertical printing
- Text and logo
- 8 points per mm per line • 448 points per column
- Paper or self-adhesive tickets
- Standard format: 2.36" x 2.7"
- Capacity: 6,500 tickets

Communication

- GPRS modem

Accessibility

- ADA/DDA compliance to address disability requirements (PrCEN15291 & various national standards)

Environment

- More than 90% recyclable (ISO 22628)
- European directives ; RoHS and WEEE
- CE mark

Collection system

- Patented



PARKEON S.A.S. FF-TRA/V1-US - Sept 2011 • All rights reserved • STRADA is a trademark of Parkeon. Parkeon retains all ownership rights to the content of this document or the rights of use, reproduction, marketing, translation, adaptation, modification, and, more generally, exploitation, by all modes, for all purposes and all countries and for the duration of protection. Any use of the contents of this document requires prior written permission of Parkeon. Parkeon can make any changes to data, drawings or descriptions without notice. Some features may vary according to customer specifications and represent no commitment by Parkeon.

United States
PARKEON, INC
40 Twosome Drive, Ste 7
Moorestown, NJ 08057
Phone: (856) 234-8000
Email: ussales@parkeon.com

France
PARKEON S.A.S.
Le Barjac
1 boulevard Victor - 75015 Paris
Phone: +33 (0)1 58 09 81 10
Fax: +33 (0)1 58 09 81 49

www.parkeon.com

PARKEON

ATTACHEMENT G



CDG Engineers Architects Planners, Inc.

One Campbell Plaza
St. Louis, Missouri 63139
T. 314 781 7770 F. 314 781 9075

www.cdgengineers.com

November 16, 2011

Mr. Jim Schmidt
MISSOURI DEPARTMENT OF TRANSPORTATION
Local Roads
1590 Woodlake Drive
Chesterfield, Missouri 63017-5712

**RE: City of Clayton
Clayton Pedestrian Enhancement Project
Federal Project No. STP-5438(607)
Letter of Public Interest Finding
CDG Project No. 11073**

Dear Mr. Schmidt:

On behalf of the City of Clayton, CDG Engineers hereby requests approval of a finding in the public interest to use Street Light Poles and Accessories manufactured by Sternberg Lighting for the Clayton Pedestrian Enhancement project.

This project is a continuation of the City's Central Business District Streetscape Improvements. The City plans to improve pedestrian safety along Bonhomme Ave., S. Meramec Ave., S. Central Ave., and Shaw Park Dr. by removing and replacing sidewalks, crosswalks, accessible ramps, streetlights, and street trees.

The City requests that these specific Street Light Poles and Accessories be used for the following reasons:

1. The City desires to maintain consistency throughout the Central Business District by matching existing streetscape improvements.
2. Utilizing a single type of Street Light Poles and Accessories enables the City to reduce maintenance costs.
3. The City has limited storage capability and must limit their inventory selection.

Approval of this request at your earliest convenience would be appreciated. This project is scheduled for a June 2012 bid opening.

Should you have any questions regarding this submittal, please contact me at 314-446-3527 or rieck@cdgengineers.com. Thank you for your help in this matter.

Sincerely,

CDG Engineers Architects Planners, Inc.

Daniel J. Rieck, E.I.T.
Assistant Project Manager

*I RECOMMEND APPROVAL BASED
ON 23CFR 635.411 (2)(2) "ESSENTIAL
FOR SYNCHRONIZATION WITH EXISTING
HIGHWAY FACILITIES."*

J. 11-17-11

APPROVED:

Kathy Harvey 11-17-11
Kathy Harvey, State Design Engineer

Approved By: _____
Title:

Date: _____

ATTACHEMENT H



CDG Engineers Architects Planners, Inc.

One Campbell Plaza
St. Louis, Missouri 63139
T. 314 781 7770 F. 314 781 9075

July 31, 2012
Revised September 27, 2012

www.cdgenengineers.com

Mr. Jim Schmidt
MISSOURI DEPARTMENT OF TRANSPORTATION
Local Roads
1590 Woodlake Drive
Chesterfield, Missouri 63017-5712

RE: City of Clayton
Clayton Pedestrian Enhancement Project
Federal Project No. STP-5438(607)
Letter of Public Interest Finding
CDG Project No. 11073

Dear Mr. Schmidt:

On behalf of the City of Clayton, CDG Engineers hereby requests approval of a finding in the public interest to use Trash Receptacles and Benches manufactured by UltraSite for the Clayton Pedestrian Enhancement project.

This project is a continuation of the City's Central Business District Streetscape Improvements. The City plans to improve pedestrian safety along Bonhomme Ave., S. Meramec Ave., S. Central Ave., and Shaw Park Dr. by removing and replacing sidewalks, crosswalks, accessible ramps, streetlights, and street trees.

The City requests that these Trash Receptacles and Benches be used for the following reason:

1. The City desires to maintain consistency throughout the Central Business District by matching existing streetscape improvements.

Approval of this request at your earliest convenience would be appreciated. This project is scheduled for a January 2013 bid opening.

Should you have any questions regarding this submittal, please contact me at 314-446-3527 or rieck@cdgenengineers.com. Thank you for your help in this matter.

Sincerely,

CDG Engineers Architects Planners, Inc.

Daniel J. Rieck, E.I.T.
Assistant Project Manager

I do hereby certify that in accordance with the requirements of 23 CFR 635.411(a)(2), this patented or proprietary item is essential for synchronization with existing highway facilities.

Approved By: _____

Title: _____

Kathryn P. Harvey, State Design Engineer

ATTACHEMENT I



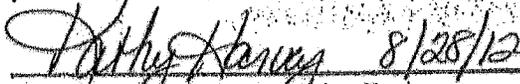
Department of Public Works

10 North Benton • Clayton, Missouri 63105-3397 • (314) 290-8540 • FAX (314) 863-0296 • TDD: (314) 290-8435

August 22, 2012

Mr. James Schmidt
District Design Liaison
Missouri Department of Transportation
1590 Woodlake Drive
Chesterfield, MO 63017

I do hereby attest that in accordance with the requirements of 23 CFR 635.411(c), the use of this patented or proprietary item is in the public interest.


Kathryn P. Harvey, State Design Engineer

RE: Public Interest Finding-Vanguard Detectable Warning
Pedestrian Enhancement Project
Federal Project No. STP: 5438(607)

Dear Mr. Schmidt:

Upon receipt of the email you sent us on August 13th, forwarded from Llans Taylor, Dan Rieck and I spoke with Llans about the PIP's we had previously submitted. Based upon Llans's feedback, Dan will be resubmitting a number of PIP's, and will revise other specifications to comply with MoDOT's requirements.

One of the more complicated products discussed was Vanguard Detectable Warning (www.vanguardonline.com). As Llans brought up in his email, the City's website shows our standard detectable warning as Arcis precast tiles. We have been using Arcis tiles for about 4 years, and prior to that used a similar product called Cast-In-Tact for several years. They met the ADA requirements while also providing acceptable aesthetic qualities.

In recent years, as we have all become more educated about accessibility requirements, we have found that while square/rectangular products such as precast tiles work well in ideal circumstances where curb ramps are perpendicular to the street and of consistent widths, they do not work well for more complex geometries. In an effort to fit curved ramps, tiles must be cut at angles and fit back together. These field cuts rarely fit together perfectly, and a lot of material is wasted.

The City of Clayton strives to be at the forefront of accessibility, not just meeting standards, but exceeding them. In our search to find a better product, we came across Vanguard, which is a painted-on product. Thus, it can be customized to any shape. It is also very durable. When we inquired as to locations where we could see it in-place, we learned that, while there were no local installations, the City of Branson has been using Vanguard for 5+ years. I contacted Branson's Director of Public Works, and he confirmed that they are very happy with the product, and use it extensively.

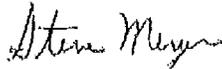
Since we still wanted to see the product for ourselves, we arranged for Ozarks Vanguard to perform a demonstration here in Clayton, and invited other municipalities, consultants,

and contractors to observe the installation process. We specifically chose a busy location where detectable warning had not yet been installed-at the intersection of Central and Bonhomme. Vanguard was installed on three ramps at the intersection on October 31, 2011. While we did not have a hard winter to truly put it to the test, it still looks great and functions great. The two ramps on the north side of Bonhomme will remain in place, while the ramps on the south side will be replaced as part of the Pedestrian Enhancement Project.

Since the City does still have some Arcis tiles in stock (received a discount for a placing large order), we will continue to use them in ideal geometric circumstances until our stock has been depleted. In order to maintain consistency, we actually provide them to contractors doing work in the ROW. However, it is our intention to phase out the precast tiles and strictly use Vanguard in the future. It is more economical, better meets the spirit and intent of PROWAG, and is easier to install. For all of these reasons, we are requesting approval of the previously submitted Public Interest Finding.

Please let me know if you need additional information or have any questions.

Sincerely,

A handwritten signature in cursive script that reads "Steve Meyer".

Steve Meyer, P.E.
Civil Engineer

Attachments: photos

cc: Dan Rieck, CDG
file

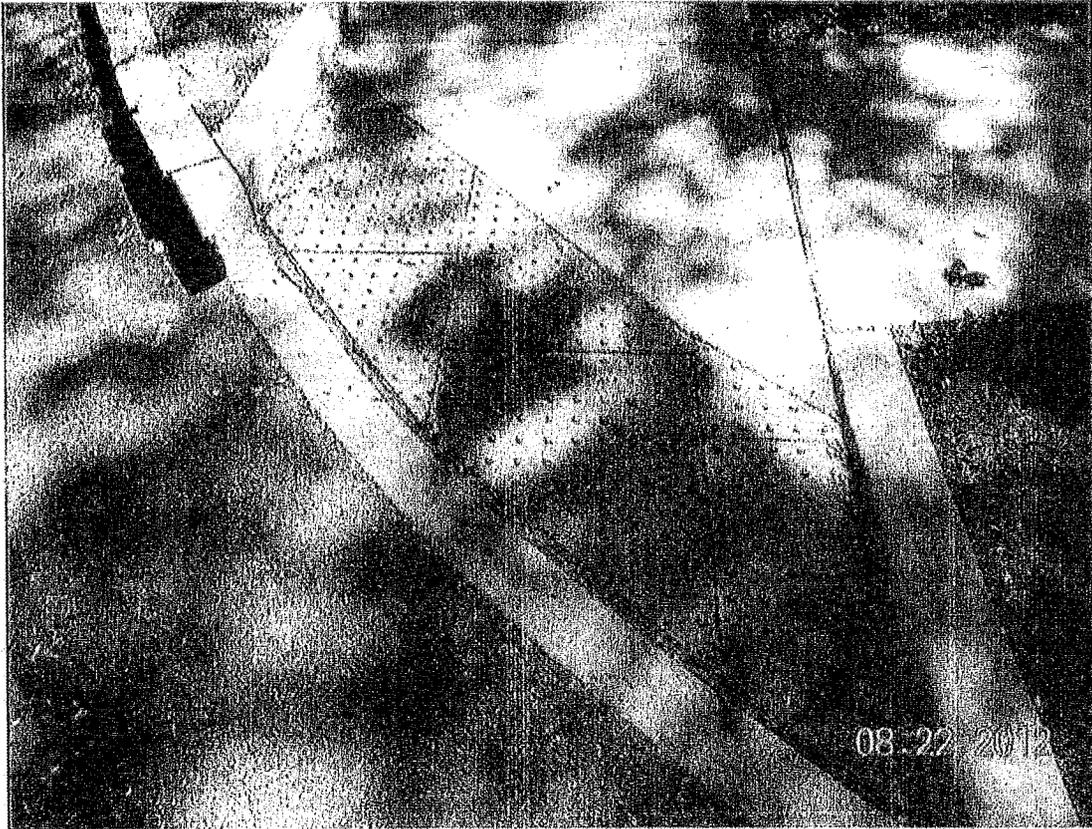
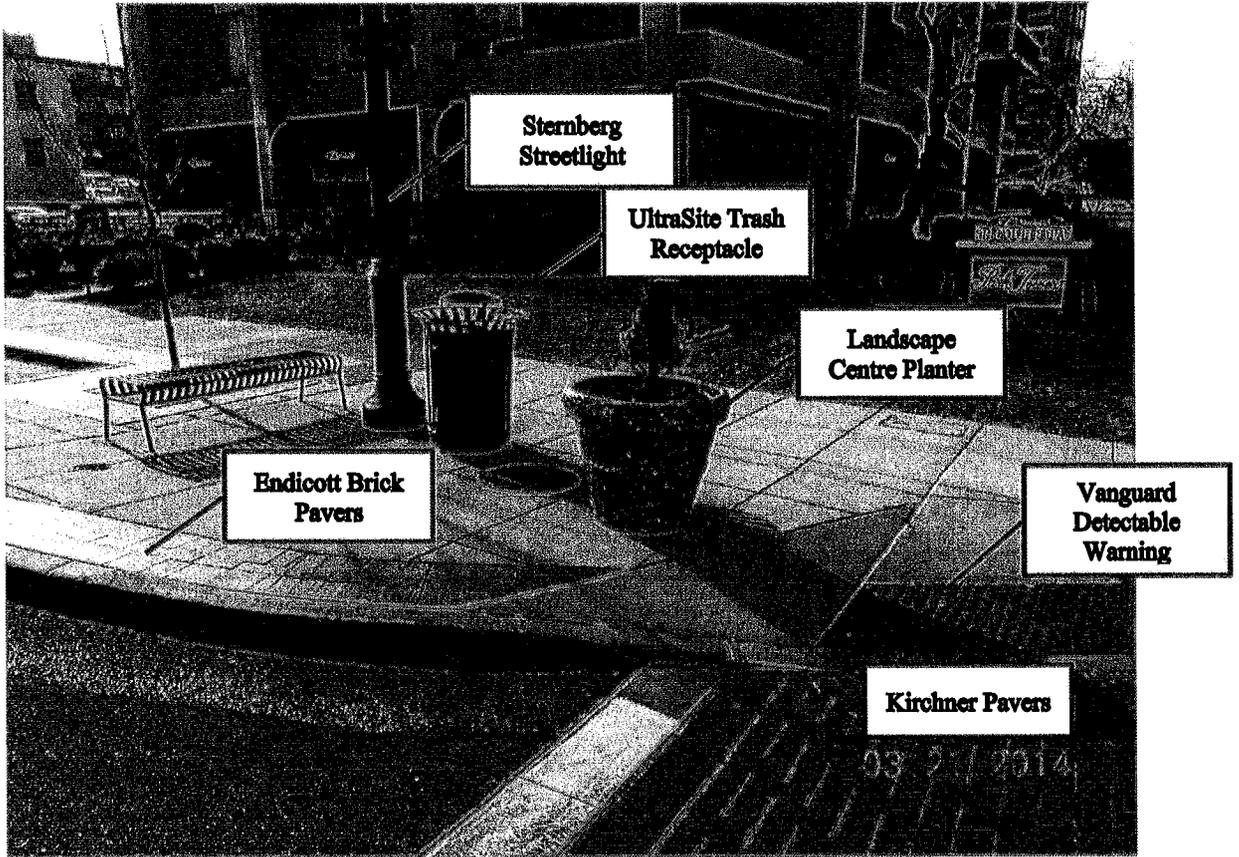


Fig. 1: Arcis Tiles cut to fit an angled/curved ramp on Wydown Blvd. While the contractor did their best, some of the lines are still crooked, and caulk had to be used to fill gaps. There are also hollow spots underneath the tiles because the concrete began to set up while cutting the tiles.

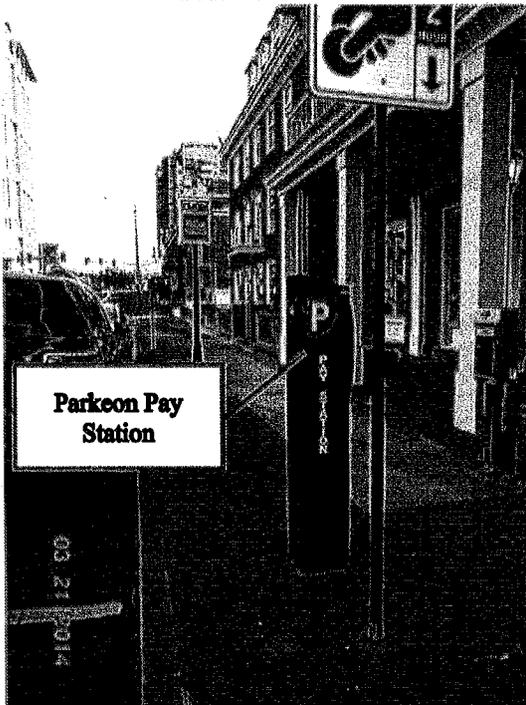


Fig. 2: Vanguard detectable warning at the NWC of Bonhomme and Central. While this corner is still relatively simple geometrically, you can already see the benefit of being able to match the shape of ramp with the detectable warning product.

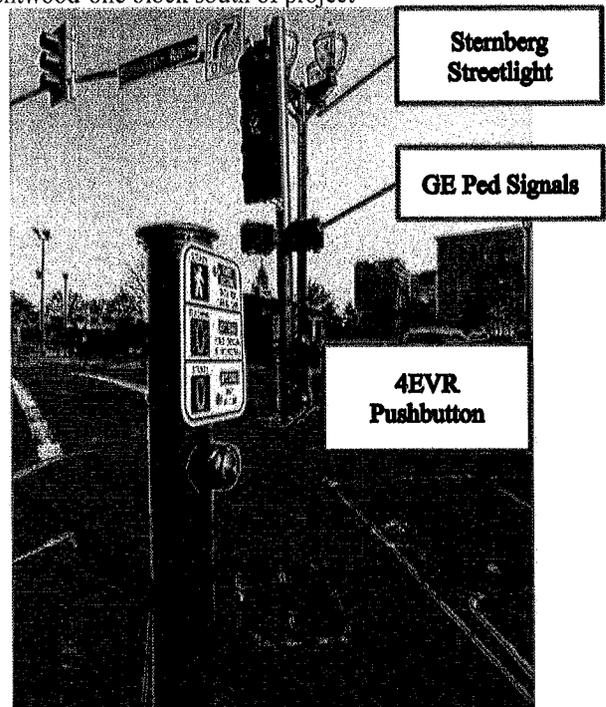
ATTACHEMENT J



Southeast corner of Bonhomme & Brentwood-one block south of project



In front of Police Station, within Project Limits.



Southeast corner of Bonhomme & Brentwood one block south of project

