## 

## (February 6, 2023)

## **Accessible Pedestrian Signal (APS) Pushbuttons**

When required in the Contract, APS Pushbuttons shall be provided for traffic signal systems. Each accessible pedestrian signal (APS) shall be a complete APS pushbutton system at each pedestrian pushbutton location shown in the Plans.

Each pushbutton station shall include the following:

- Flat dark green colored housing. All exterior housing screws shall be security (pinned) Torx<sup>™</sup> type.
- 2. High contrast pushbutton arrow (dark on a light background or light on a dark background). White on silver or silver on white are not acceptable as high contrast.
- 3. Integral 9" x 15" R10-3e Sign. Braille shall not be included. Adaptor plates shall be included if required to accommodate the sign.
- 4. Interface unit for installation in associated pedestrian display:
- 5. Percussive tone / rapid tick walk indication.
- 6. Voice messages, as specified below, pre-installed. Voice shall be male.
- 7. Interconnect cable for installation between pushbutton station and pedestrian display interface unit. Four conductor cable meeting the requirements of Standard Specification 9-29.3(2)B or 9-29.3(2)G may be used if it meets the pushbutton manufacturer's requirements. Otherwise, cable shall be provided by the pushbutton manufacturer.

The following shall be provided at each intersection:

- 1. One USB flash drive with copies of all voice message audio files for that intersection, placed in the traffic signal cabinet drawer or drawing envelope. A separate flash drive is required for each intersection.
- 2. One USB cable of the appropriate type (A to A, A to B, male/female, etc.), placed in the traffic signal cabinet drawer or drawing envelope for connection of a laptop to the APS button.

Any other equipment or software required by the manufacturer for setup, operation, and maintenance of the pushbutton stations shall be provided.

Dual button adaptor brackets are required for all installations with two APS pushbuttons on the same Type PPB, Type PS, or Type I Signal Standard. Where dual button adaptor brackets are required, they shall be obtained from the same manufacturer as the pushbutton station - brackets from other manufacturers shall not be used.

Extensions, when allowed, shall be in accordance with WSDOT Standard Detail IS-2 (see https://wsdot.wa.gov/engineering-standards/all-manuals-and-standards/plan-sheet-library/illumination-signals-and-its#IS-2). Where the signal system is owned

1	by another agency, extensions shall be in accordance with the owning agency's		
2	requirements.		
3			
4	APS Speech Messages		
5	Speech messages shall be provided in the following format:		
6			
7	• "Wait."		
8	<ul> <li>"Wait to cross(A) at(B)"</li> <li>"Walk sign is on to cross(A)"</li> </ul>		
9	<ul><li>"Walk sign is on to cross(A)"</li></ul>		
10			
11	Tables with the entries for (A) and (B) above, as well as quantities for button and		
12	arrow orientations, are provided in the Plans for each intersection.		
13			
14	Order forms shall be completed by the Contractor using the information presented		
15	above.		
16			
17	Each APS pushbutton shall include a label tape with the text "Crossing (A) at (B)",		
18	where (A) and (B) are the street names as described here and programmed into		
19	the pushbutton. The label shall be installed directly on the side or back of the APS		
20	pushbutton and shall remain intact and legible until final installation.		
21	·		
22	Delivery and Setup		
23	All APS pushbuttons shall be delivered to the region signal shop or owning agency		
24	shop for verification and owner setup. After the owning agency has completed		
25	setup, the Contractor will be notified that the APS pushbuttons are ready for pickup		
26	and installation.		
27			
28	Wireless access features (Bluetooth and/or WiFi), if included, will be disabled upon		
29	installation.		
30			
31	Approved APS Equipment		
32	APS equipment shall be one of the following systems:		
33	74 O oquipmont onan bo one of the following dyoteme.		
34	1. Model: Campbell Guardian Independent 4-Wire APS		
35	1. Model. Sumpsen Suardian maspendent 4 Wile Al S		
36	Components:		
37	APS Pushbutton Kit: KAC-32021-2BT		
38	Pedestrian Display Interface Unit: 501-0300 SPI		
39	r edestrian display interface offit. 301-0300 St 1		
40	Manufacturer:		
41	Campbell Company		
42	450 W McGregor Dr		
43	Boise, ID 83705		
44	(208) 345-7459		
45			
46	www.pedsafety.com		
	2 Model: Poles IntelliCross Intelligent Pedestrian System		
47	2. Model: Pelco IntelliCross Intelligent Pedestrian System		
48	Components:		
49	Components: APS Pushbutton: SE-2901-#-P30 9x15		
50 51			
51	Pedestrian Display Interface Unit: SE-6190-PNC		

1		Manufacturer:
2		Pelco Products, Inc.
3		320 W 18th St
4		Edmond, OK 73013
5		(405) 340-3435
6		intellicross@pelcoinc.com
7		www.pelcointellicross.com
8		
9	3.	Model: Polara iNS iNavigator Push Button Station
10		_
11		Components:
12		APS Pushbutton: iNS23TN1-G
13		Pedestrian Display Interface Unit: iPHCU3S
14		PC Interface Module: iN-DGL (one per intersection; place in cabine
15		drawer).
16		
17		Manufacturer:
18		Polara Enterprises
19		1497 CR 2178
20		Greenville, TX 75402
21		(903) 366-0300
22		www.polara.com
23		
24	Only on	e brand of equipment shall be used for the entire Contract.