ADDENDUM TO RFP DOCUMENTS

Addendum # 02 – The following clarifications and revisions are provided, in part based on questions received during the pre-bid meeting, which must be added/considered when completing your submittal: Acknowledgement of receipt of this ADDENDUM is required in the proposal’s cover letter of introduction. Please clearly note the addendum date and number.

ITEM:

1. Bid Due Date: Revise bid opening date to New Date: **Tuesday, July 18, 2017 at 2:00 p.m.**
2. Time of Completion: Revise working days from 35 to 40
3. **Bid form:** to clarify unit cost request replace document -sheet **00 41 13—1** with the attached replacement sheet.
4. Attached are the sign in sheet from mandatory pre bid meeting and the Agenda from the meeting.
5. Replace civil plan set with attached set, dated 7-10-17. Revisions are:
   i. Denoting the city required housekeeping pad at new city street light, including a retaining curb
   ii. Calling out dimension information for replacement sections of existing sidewalk
   iii. This set includes an additional cover sheet with the DSA review stamp and required DSA cover sheet that has their approval, DSA general notes and accessibility related conditions within their jurisdiction
   iv. Additional elevation data is shown on the new sidewalk areas

6. The new sidewalks for the entry project have a designed cross slope of 1.5%. The maximum allowed cross slope per state and local ADA code is 2%. The Curb ramps are designed with various longitudinal slopes ranging from 1.0% to 7.5%. The maximum allowed slope is 7.5% per Caltrans and 8.3% per City of Fairfield. Therefore the ramps located within city right of way can have a maximum allowed longitudinal slope of 8.3%, and the ramps located on school property can have a maximum allowed longitudinal slope of 7.5%.
7. C1.0 note 17 calls out removal of existing hedge. Contractor shall also remove roots to enable smooth, conforming grades and successful grass planting.

8. Replace electrical plan set with attached set dated 7-11-17. Revisions are:
   i. E2.0 - corrects note 6 to read 8 lights (provided by district)
   ii. E2.0 adds L-2 to the feeder schedule.
   iii. E2.0 note 1 revised to show solar powered flashing signs (see elsewhere in this addendum for details on the flashing signs and the poles).

9. Existing surplus lights: See attached photo of lights in District maintenance yard (visited during job walk). Surplus lights (120-277V) shall be wired up to match existing 277V circuits and shall be tested before installation.

10. Flashing signs, poles and equipment: as indicated in E2.0 note 1, provide solar powered system. Attached are sheets from an acceptable manufacturer; in accordance with requirements, contractor may propose alternate as an “or equal” product. Furnish and install all items indicated below and verify ordering codes:

   a. TS 40 Sign with solar panels:
      i. Model #/Ordering Codes: SI-TS40, W11-2-24, D, SD, 9,A
      ii. battery: 12Volt option
      iii. Solar collector: 20 Watt option

   b. PPBs- Wireless Pedestrian Push Buttons.
      i. Model #/ ordering Codes: Wireless AC-TS40BDSPFSW,Y,S,BR
      ii. Wireless Transmitter and transmitter pole mounting kit.

   c. Ensure all parts work together and can also be mounted on the pole specified herein with appropriate manufacturer approved hardware. Before ordering confirm with the manufacturer that the part numbers indicated, or equals, will work in conjunction to create a working system.

   d. Pole and foundation: Poles and foundations shall conform to Caltrans RSP (2015) ES-7A, Detail C (attached)

11. Contractor’s attention is directed to General Notes, section 8 in the Special Conditions Document 00 73 13.

12. Misc. Questions and Answers
   a. Does the District use a contractor for landscape maintenance? No
   b. Is the striping to be thermoplastic? Yes
c. Sheet C1.0 Question: conduit run (note 20): should a pull box be added to this 233 ft. (approximate) segment? Answer: an intermediate box may be added for contractor’s convenience however code does not require.
d. Will the District allow use of the parking lot or other areas for staging? To a limited extend the southwest corner of Lot 1 could be used, provided contractor screens the area (opaque fabric over temp. fencing) and is responsible for full restoration of any damage. See attached location map.
e. Are there special requirements for protection of the lawn area at the College where the new sidewalk is constructed? Contractor would need to restore the grass to pre-existing condition, and protect trees. If tree trimming is proposed by contractor to enable equipment access or use, obtain District landscaper approval.
f. Who will do the special inspection/materials tests (e.g. for AB compaction and concrete foundations)? Ninyo & Moore

13. Insurance requirements (Special Conditions, document 00 73 13): Replace section 3 with the following:

**Insurance Policy Limits and other modifications to General Conditions:**

3.1 All of Contractor’s insurance shall be with insurance companies with an A.M. Best rating of no less than A:VII. The limits of insurance shall not be less than:

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<thead>
<tr>
<th>Insurance Type</th>
<th>Limitation</th>
<th>Limit</th>
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<tr>
<td>Commercial General Liability</td>
<td>Product Liability and Completed Operations, Fire Damage Liability – Split Limit</td>
<td>$1,000,000 per occurrence; $2,000,000 aggregate</td>
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<tr>
<td>Automobile Liability – Any Auto</td>
<td>Combined Single Limit</td>
<td>$1,000,000</td>
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<tr>
<td>Workers Compensation</td>
<td>Statutory limits pursuant to State law</td>
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<tr>
<td>Employers’ Liability</td>
<td></td>
<td>$1,000,000</td>
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<tr>
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<tr>
<td>Pollution Liability</td>
<td>Not Required</td>
<td></td>
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</table>

3.2. Refer also to General Conditions (document 00 72 13, section 13) for insurance requirements.

3.3. Additional Insureds: In addition to those entities listed in General Conditions (document 00 72 13, section 13) item 13.1.7.3, the Solano Transportation Authority shall also be named as an additional insured.
Summary of enclosed/attached items:

- Pre bid Sign in sheet, 7-6-17
- Agenda 7-6-17
- Bid form replacement sheet 00 41 13—1
- Revised civil plan set 7-10-17
- Revised electrical plan set 7-11-17
- Photo page of available surplus lights
- TS 40 Sign with solar panels – example product information
- Wireless Pedestrian Push Buttons – example product information
- Caltrans RSP (2015) ES-7A
- Location map showing potential staging area
<table>
<thead>
<tr>
<th>Name</th>
<th>Representing</th>
<th>E-Mail Address</th>
<th>Phone/Cell Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Scott Christie</td>
<td>SCCD Owner (Swinerton - CM)</td>
<td><a href="mailto:scchristie@swinerton.com">scchristie@swinerton.com</a></td>
<td>415. 46. 5690</td>
</tr>
<tr>
<td>Alex Cabrera</td>
<td>California Highway Const.</td>
<td><a href="mailto:chc_group@aoa.com">chc_group@aoa.com</a></td>
<td>415. 755-7437</td>
</tr>
<tr>
<td>Bryan Holan</td>
<td>CAZADORO CONST.</td>
<td><a href="mailto:bholan@cazadoro.com">bholan@cazadoro.com</a></td>
<td>415. 466 6093</td>
</tr>
<tr>
<td>Alan Cooper</td>
<td>SWANK CONST.</td>
<td><a href="mailto:allene@swankconstrinc.com">allene@swankconstrinc.com</a></td>
<td></td>
</tr>
<tr>
<td>John Lister</td>
<td>Lister Const.</td>
<td>John @ Listerinc.com</td>
<td>707-451-2813</td>
</tr>
<tr>
<td>Steve Legan</td>
<td>Gregory Eg. Inc.</td>
<td><a href="mailto:Laptop1919@AOL.com">Laptop1919@AOL.com</a></td>
<td>530-745-5677</td>
</tr>
<tr>
<td>Hocine Merrouk</td>
<td>HM CONSTRUCTION, Inc.</td>
<td><a href="mailto:HMER123@Gmail.com">HMER123@Gmail.com</a></td>
<td>510-495-7020</td>
</tr>
<tr>
<td>Patrick Mancini</td>
<td>KEAREX Engineering, Inc.</td>
<td><a href="mailto:patrick@kearexengineering.com">patrick@kearexengineering.com</a></td>
<td>317-613-5888</td>
</tr>
<tr>
<td>Jason Muller</td>
<td>FORWARD CONSTRUCTION</td>
<td><a href="mailto:JMCW@FORWARD-CONSTRUCTION.NET">JMCW@FORWARD-CONSTRUCTION.NET</a></td>
<td>925-245-1300</td>
</tr>
</tbody>
</table>

* indicated will not bid
1. **INTRODUCTIONS**
   - sign-in sheet.

2. **PROJECT OVERVIEW**
   - Description of Project
   - City of Fairfield right of way/jurisdiction vs. SCCD property
   - Plans – civil and electrical set
   - Addendum #2 to be issued with rev 1 civil plans
   - Specifications – note city specific provisions
   - City permit information; allowance in bid for fees
     - Note separate city required insurance docs
   - Owner provided light poles (except for city street light; expected lead time 4-6 wks.)

3. **Bid Date/bids due:** 2:00 p.m., Thursday, July 13, 2017, at the Solano Community College, 4000 Suisun Valley Road, Building 600, Board Room, Fairfield

4. **BIDDER QUALIFICATIONS**
   - Must hold Class A license; no required prime self perform requirement.
   - Refer to doc. 00 21 13 Instructions to Bidders – submit bid form/proposal and include:
     - Bid Bond on the District's form or other security.
     - Designated Subcontractors List.
     - Site-Visit Certification
     - Noncollusion Declaration.
     - Qualifying Experience form
   - Note on bid form: will issue addendum (#2) to clarify/revise unit cost request for additional remove and replace sidewalk $/SF

5. **WORK HOURS; Time of Completion**
   - Regular work hours on District property 7:00 am to 5:00 pm Mon-Friday (except holidays)
   - City right of way: refer to city permit requirements. Lane closures are limited to 9:00 to 3:30 M-F
   - Time of Completion: 35 working days

6. **QUESTIONS**
   - Questions which are substantive will be responded to in writing to all potential bidders/plan holders via an Addendum; note deadline for submitting is 7 calendar days prior to bid opening.
   - Refer questions to Construction Manager in writing by email to: schristie@swinerton.com
BID FORM AND PROPOSAL

To: Governing Board of Solano Community College District ("District" or "Owner")

From: __________________________________________
(Proper Name of Bidder)

The undersigned declares that the Contract Documents, including, without limitation, the Notice to Bidders and the Instructions to Bidders have been read and agrees and proposes to furnish all necessary labor, materials, and equipment to perform and furnish all work in accordance with the terms and conditions of the Contract Documents, including, without limitation, the Drawings and Specifications of Bid No. ________.

PROJECT: FAIRFIELD CAMPUS ENTRY SIDEWALK IMPROVEMENTS

("Project" or "Contract") and will accept in full payment for that Work the following total lump sum amount, all taxes included:

------------------------------------------------------------------------------------------------------------------
| Base Bid | dollars | $ ______________ |
------------------------------------------------------------------------------------------------------------------

1. **Unit Prices.** The Bidder’s Base Bid includes the following unit prices, which the Bidder must provide and the District may, at its discretion, utilize in valuing additive and/or deductive change orders:

   Please add in additional removal and replacement of concrete sidewalk @ $/SF, including subgrade preparation and base rock:
   Unit Price: ______________ $/SF

2. **Allowance.** The Bidder’s Base Bid shall include an allowance of $2,000 for the required City of Fairfield encroachment fees

   The above allowance shall only be allocated for actual permit fee costs relating to the Work. Contractor shall not bill for or be due any portion of this allowance unless the District has been presented with the City receipt of payment for the fees. Contractor hereby authorizes the District to execute a unilateral deductive change order at or near the end of the Project for all or any portion of the allowance not allocated.

3. The undersigned has reviewed the Work outlined in the Contract Documents and fully understands the scope of Work required in this Proposal, understands the construction and project management function(s) is described in the Contract Documents, and that each Bidder who is awarded a contract shall be in fact a prime contractor, not a subcontractor, to the District, and agrees that its Proposal, if accepted by the District, will be the basis for the Bidder to enter into a contract with the District in accordance with the intent of the Contract Documents.

4. The undersigned has notified the District in writing of any discrepancies or omissions or of any doubt, questions, or ambiguities about the meaning of any of the Contract Documents, and has contacted the Construction Manager before bid date to verify the issuance of any clarifying Addenda.
SIDEWALK IMPROVEMENT PLAN

KEYNOTES

1. REPLACE EXISTING NON-COMPLIANT CURB RAMP WITH CASE "A" CURB RAMP PER CALTRANS STD PLAN A88A, SEE DETAIL 6 ON SHEET C2.0

2. NEW CASE "F" CURB RAMP PER CALTRANS STD PLAN A88A, SEE DETAIL 7 ON SHEET C2.0

3. NEW PEDESTRIAN CONCRETE WALK, SEE DETAIL 1 ON SHEET C2.0

4. NEW 10' WIDE "BASIC" STYLE CROSSWALK STRIPING PER CALTRANS STD PLAN A24F (YELLOW COLOR)

5. ADJUST EXISTING UTILITY BOX TO NEW FINISH GRADE

6. NEW YIELD LINE PER CALTRANS STD PLAN A24E

7. PROTECT EXISTING SIGNAL / LIGHT POLE IN PLACE.

8. LOWER EXISTING PUSH BUTTON TO 3'24" ABOVE FINISHED SURFACE PER CALTRANS STD. PLAN ES27A.

9. PROTECT EXISTING SIGNAL BOX TO REMAIN IN PLACE

10. NEW CASE "G" CURB RAMP PER CALTRANS STD PLAN A88A, SEE DETAIL 8 ON SHEET C2.0

11. EXISTING CROSSWALK TO REMAIN, REFRESH WITH WHITE THERMOPLASTIC

12. NEW DETECTABLE DOME WARNING AT FLUSH WALK, SEE DETAIL 4 ON SHEET C2.0

13. RELOCATE EXISTING STREET SIGN AS DIRECTED BY DISTRICT PEDESTRIAN CROSSING SIGN PER M.U.T.C.D. W1122

14. PROTECT EXISTING SIGNAL / LIGHT POLE IN PLACE.

15. EXISTING PUSH BUTTON TO BE RELOCATED TO ADJACENT POLE (SEE KEYNOTE 16)

16. INSTALL RELOCATED PUSH BUTTON FROM ADJACENT POLE PER CALTRANS STD. PLAN ES27A, (SEE KEYNOTE 15)

17. REMOVE HEDGE (APPROX. 70 LF) TO IMPROVE SIGHT VISIBILITY, REPLACE WITH TURF SIMILAR TO ADJACENT AND ADJUST IRRIGATION AS NEEDED. THE CITY LANDSCAPE SECTION SHALL BE NOTIFIED OF COMPLETION FOR APPROVAL

18. NEW YIELD TO PEDESTRIAN CROSSING SIGN PER M.U.T.C.D. R125

19. NEW PGE 17x30 SPLICE BOX CONNECTED TO EXISTING SPLICE BOX.

20. NEW 2" CONDUIT RUN TO NEW STREETLIGHT (±233 LF)
KEYNOTES

1. REMOVE AND REPLACE NON-COMPLIANT CURB RAMP. CONFORM TO NEAREST CONTROL JOINT.
2. RELOCATED STOP SIGN AND PARKING LOT USE SIGN.
3. NEW NO PASSING STRIPING PER DETAIL 22 CALTRANS STD PLAN A20A, SEE PLAN FOR LENGTH.
4. NEW 10' WIDE "BASIC" STYLE CROSSWALK STRIPING PER CALTRANS STD PLAN A24F (YELLOW COLOR).
5. NEW PEDESTRIAN CONCRETE WALK, SEE DETAIL 1 ON SHEET C2.0.
6. NEW CASE "F" CURB RAMP PER CALTRANS STD PLAN A88A, SEE DETAIL 7 ON SHEET C2.0.
7. NEW CASE "A" CURB RAMP PER CALTRANS STD PLAN A88A, SEE DETAIL 6 ON SHEET C2.0.
8. NEW FLASHING CROSSWALK SIGN.
9. NEW YIELD LINE PER CALTRANS STD PLAN A24E.
10. NEW YIELD LINE PER CALTRANS STD PLAN A24F (YELLOW COLOR).
11. REMOVE AND REPLACE NON-COMPLIANT KSB1.
12. NEW PADDLE DELINEATOR KSB2.
1. Construction joints shall extend full depth of paving.

2. Control joints shall be 5' O.C.


4. Construction joints shall be constructed per project requirements in the Special Provisions.

5. Portland cement 8" A.C.

6. Sidewalk and ramp thickness, "T", shall be 3' min.

7. Detectable warning surface may have to be cut to provide edge of curb ramp surface.

8. New pedestrian walkway surfaces anticipated.

9. Depth of the ramp shall not exceed 1" of depth for each 2'+0" of width.


11. New pedestrian walkway surfacing may have to be cut to provide edge of curb ramp surface.

12. DETECTABLE WARNING SURFACE NEAREST THE EXISTING PAVING MAY BE USED ON A 4'+2" WIDE CURB RAMP. DETECTABLE WARNING SURFACE MAY BE USED IN LOCATIONS WHERE IT IS NOT NECESSARY TO PROVIDE FULL WIDTH AND DEPTH OF THE RAMP.  A 4'+0" WIDE DETECTABLE WARNING SURFACE MAY BE USED IN LOCATIONS WHERE IT IS NOT NECESSARY TO PROVIDE FULL WIDTH AND DEPTH OF THE RAMP.
KEYNOTES:

1. Adjust existing utility box to new finish grade.
2. Protect existing signal / light pole in place.
3. Protect existing signal box to remain in place.
4. Protect existing headwall.

SCALE: 1" = 20' 0"
CAMPUS ENTRY SIDEWALK IMPROVEMENT
4000 SUISUN VALLEY ROAD
FAIRFIELD, CA
94534

ELECTRICAL LEGEND AND ABBREVIATIONS:

ELECTRICAL LEGEND:

SHEET INDEX:

CALLOUTS:

ABBREVIATIONS:

WPGFI
WPGFI
GFI

VICINITY MAP:
NEW POLE CONNECTION TO EXISTING POLE:

UNDERGROUND CONDUIT INSTALLATION:

UNDERGROUND PULLBOX:

TRENCH UNDER WALKWAY:

SITE LIGHTING POLE BASE:

POLE MOUNTED FIXTURE ON CONCRETE BASE:

SPICE DETAILS & NOTES

NOTES:

1. NEW POLE CONNECTION TO EXISTING POLE:
   - Ensure proper alignment and secure connections.

2. UNDERGROUND CONDUIT INSTALLATION:
   - Ensure conduit is properly sized and routed.

3. UNDERGROUND PULLBOX:
   - Follow pullbox installation guidelines for proper connections.

4. TRENCH UNDER WALKWAY:
   - Ensure trench is properly sized and excavated with proper drainage measures.

5. SITE LIGHTING POLE BASE:
   - Ensure base is properly reinforced and leveled.

6. POLE MOUNTED FIXTURE ON CONCRETE BASE:
   - Ensure fixture is securely mounted and base is properly reinforced.

7. SPICE DETAILS & NOTES:
   - Refer to splice diagram for specific splice types and details.

ISSUED FOR BID:

E3.0
Photos of surplus lights, 7-6-17
How to Specify the TS40

1. Sign Materials - Construction - Compliance
   a. Sign reflective sheeting in compliance with current MUTCD requirements for reflectivity, wording, materials and mounting guidelines.
   b. Pole mounting requirements per MUTCD guidelines.
   c. Sign constructed of .080 aluminum with stainless / aluminum fasteners and weatherproof sealant.
   d. All mounting hardware fasteners shall be theft deterrent hardware preferably Tufnut security hardware where applicable.
   e. 3/8” x 3” stainless steel tap bolts for standard mounting hardware (other mounting options available).
   f. Battery access compartment located at lower portion of sign to allow access to battery compartment for maintenance (field replaceable battery).
   g. Solar signs to have a 2” to 4” wide casing, depending on model, between front and rear sign faces to enclose all wiring, battery, PCB and LED light connections. AC powered signs 2” wide casing.
   h. Security keyed ON/OFF switch located on side of casing controlling operation.
   i. Vented weatherproof casing allowing ambient air to circulate for internal components and prevent condensation and excessive heat buildup.
   j. Compression type solar panel connector allowing optimum directional placement of solar collector.
   k. Anti-theft placards and decals for theft / vandalism deterrents.
   l. Serial # plate with manufacture date for informational and warranty purposes.

2. Battery

<table>
<thead>
<tr>
<th>Battery Type</th>
<th>Dimensions</th>
<th>Weight</th>
<th>Terminal Connector</th>
<th>Operating Temperature</th>
<th>Warranty</th>
</tr>
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<tr>
<td>12 Volt 22000mAH SLA</td>
<td>7.14” x 3.03” x 6.59”</td>
<td>12.74 lb.</td>
<td>Nut/Bolt</td>
<td>-40°F to +156°F</td>
<td>1 Year</td>
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<tr>
<td>6 Volt 2 - 6 Volt 9000mAH SLA (18 Ah Total)</td>
<td>5.95” x 1.34” x 3.70”</td>
<td>3.09 lb.</td>
<td>T2 - Spade</td>
<td>-40°F to +156°F</td>
<td>1 Year</td>
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</table>

a. Battery mounting with aluminum fasteners and brackets for in-field replacement after life cycle has expired.
b. Battery casing fully sealed in a moisture and corrosion proof casing.
c. Required battery replacement every 18 months from manufacture date.

3. Solar Panel Collector

- Solar panels to be 6/12 volt 15/20/30 watt collector type depending on type of sign, region, LED light quantities and application uses.
- Battery mounting with aluminum fasteners and brackets for in-field replacement after life cycle has expired.
- Battery casing fully sealed in a moisture and corrosion proof casing.
- Required battery replacement every 18 months from manufacture date.
- Battery mounting with aluminum fasteners and brackets for in-field replacement after life cycle has expired.
- Battery casing fully sealed in a moisture and corrosion proof casing.
- Required battery replacement every 18 months from manufacture date.

<table>
<thead>
<tr>
<th>Max Power</th>
<th>Operating Voltage</th>
<th>Operating Current</th>
<th>Max Voltage</th>
<th>Operating Temperature</th>
<th>Dimensions</th>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>15 Watt</td>
<td>8.0V</td>
<td>1.88A</td>
<td>10.8V</td>
<td>-40°C to +85°C</td>
<td>16.75” x 14.00”</td>
<td>Polycrystalline</td>
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<tr>
<td>20 Watt</td>
<td>17.2V</td>
<td>1.16A</td>
<td>21.6V</td>
<td>-40°C to +85°C</td>
<td>22.75” x 16.75”</td>
<td>Polycrystalline</td>
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<tr>
<td>30 Watt</td>
<td>17.4V</td>
<td>1.73A</td>
<td>21.6V</td>
<td>-40°C to +85°C</td>
<td>26.5” x 16.75”</td>
<td>Polycrystalline</td>
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</table>

b. Solar panel bracket constructed of aluminum alloy.
c. Schedule 40 3/4” aluminum tubing attached to the solar panel bracket to the upper casing of the sign casing. Panel must face south.
d. Angle of panel shall be 45° to 65° depending on region. Special attention required to insure solar collector has good access to solar power with no obstructions for optimum operation.
e. Electrical connectors shall be insulated spade type connectors.
f. Tempered glass solar cell sealer/protector.

4. LED Lights (Light Emitting Diodes)

- LED lights shall have a series of either 4 - 8 LEDs depending on sign size and configuration.
- All LEDs shall be compliant to MUTCD Section 2A.07 and match colors acceptable to each type of signal per this specification.
- LED flash rate at 50 to 60 times per minute per MUTCD Section 2A.07 requirements.
- LED light dimensions: 1/8” Cree LED inside a 1-1/4” diameter lens.
- 100,000 hour rated LED life (11.415 years).
- High impact acrylic water/vibration proof housing lens.
- Completely resin sealed lens.
- Operating voltage: 6/12 VDC / Amp Draw 85ma.
- Rubber grommet mounted (for easy in-field replacement) into a 1-1/4” hole.
- Output power of LEDs approximate 60,000 mcd brightness.
- LEDs wired in series for simultaneous flash pattern per MUTCD.
- Wiring completely enclosed in sign casing with access for replacement.

5. Circuitry / LED Lighting Control Unit

- Circuit shall have a minimum of 4 output LED light circuits for use.
- Circuit shall control flash rate at 50 to 60 times per minute.
- Circuit shall flash 500 milliseconds / 150 milliseconds per flash.
- Available dusk-to-dawn flash mode.
- Micro-controller technology.
- Keyed “ON/OFF” activation for tamper/vandalism protection.
- Operation of circuit temperatures -40°C to +80°C.
- Circuit enclosed in weatherproof casing.
- Low voltage protection program (protecting from total discharge of battery).
- All wiring connections in accordance to standard wiring protection guidelines.

6. Warranty

- 10 Year Solar Panel
- 5 Year Sign Construction
- 2 Year LED Lights & Circuitry
- 1 Year Battery
General Description
Our push-button stations are designed for use at a pedestrian crosswalk to activate In-Roadway Warning Lights or Flashing LED Edge Lit Signs. All stations include an instructional sign plate and an ADA-compliant push-button.

BullDog III Push-Button Station
The BullDog III sets a higher standard for ADA-compliant pedestrian crossing push-buttons. The BullDog III is not only accessible, but it’s also designed for very low maintenance and built on tested and proven technology. This button is highly vandal resistant with essentially no moving parts. It is pressure activated, but can withstand an impact from a baseball bat or hammer. When the switch activates, you will hear a beep and the LED will flash. The BullDog III Push-Button Station includes an instructional sign, a push-button for activating the flashing lights, and a push-button frame.

BullDog III Features
- BullDog III Push-Button Station includes: an instructional sign, a push-button, and push-button frame.
- Superior die-cast aluminum, powder-coated body - independently lab tested to NEMA 250 (6P) specifications.
- 316 Marine grade stainless steel button cap far exceeds the durability of competing products.
- 2” ADA compliant button withstands severe impact from baseball bats, skate boards, hockey sticks, etc.
- Button places a call with less than two pounds of force.
- Button requires push action to activate - cannot be jammed or stuck on.
- Wide operating temperature range of -30°F to 165°F (-34° to 74°C).
- Ultra-durable, long-life - tested to 300 million operations.
- Wind, rain, hail, and vibration have no negative effects.
- Transient protection meets and exceeds NEMA specifications - independently lab tested and certified.
- Piezo-driven solid state switch sounds simultaneously with push-button.
- Provides two-tone audible confirmation as well as visual LED confirmation.
- Available in black or yellow (contact TSC for other colors).
- BullDog III push-buttons use power from existing switch wires.
- 5-year warranty.

Wireless Push-Button Transmitter
MUTCD compliant Push-Buttons communicate securely to a TS1000 In-Roadway Warning Light Control System, or directly with one or more TS40 Flashing LED Edge Lit Signs at distances of up to 1,500 feet.

Transmitter Specifications
Radio:
- Operating Frequency: 2.4 GHz ISM Band, License Free, FCC Part 15 Compliant and Certified
- Range: Communicates with Devices located up to 1,500’ Direct Line of Sight
- Technology: RFDANT - Transceiver Environmentally Sealed and Industrial Ruggedized
- Patented Protocol: RFDP 8 - High Immunity to RF Noise and WIFI Signal Interference
- Security: Transmitter Paired to Receivers using a Unique 32-Bit Electronic Serial Number

Enclosure:
- Dimensions: 12” x 10” x 6” (Solar/Battery Model), 12” x 8” x 6” (AC Model)
- Type: NEMA 4X with Integrated Lock, Pole Mounting Kit Option Available
- Material: Fiberglass Enclosure and Back Panel Construction
- Installation: Pole Installation

System:
- Power Source: 12 VDC Solar, 110 VAC Model Available
- Operating Temperature Range: -40°F to +185°F (-40° to +85°C)
- Lightning Surge Protection: High Energy Surge and Transient Protection
- Autonomy: 5 Days
- Warranty: 5-Year Warranty, Battery Excluded.

Ordering Codes
<table>
<thead>
<tr>
<th>Part #</th>
<th>Description</th>
<th>Body Color</th>
<th>Power Source</th>
<th>Options</th>
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<tbody>
<tr>
<td>AC-TS#BDSPW</td>
<td>BullDog III Push-Button with Stainless Steel Button (for TS40 signs)**</td>
<td>- Y: Yellow Contact TSC for other colors.</td>
<td>- AC: AC</td>
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<tr>
<td>AC-BDL3FSW</td>
<td>BullDog III Push-Button Station with Stainless Steel Button**</td>
<td></td>
<td>- B: Battery</td>
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<tr>
<td>AC-TS#BSPPSFW</td>
<td>BullDog III Push-Button Station with Stainless Steel Button (for TS40 signs)**</td>
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<tr>
<td>AC-BDL3ALFSW</td>
<td>BullDog III Push-Button Station with Left Arrow Button**</td>
<td></td>
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</tr>
<tr>
<td>AC-BDL3ARFSW</td>
<td>BullDog III Push-Button Station with Right Arrow Button**</td>
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</tr>
</tbody>
</table>

Notes:
1. For wireless operation, Wireless Push-Buttons must be paired with TS1000 Crosswalk System Controller or with TS40 Signs having Wireless Push-Button option installed.
2. Transmitter Pole Mount Kit Available.

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