

ADDENDUM TO RFP DOCUMENTS

 <p>SOLANO COMMUNITY COLLEGE</p>	ADDENDUM #02
	SCCD RFP: #17-008
	Project: Solano Community College District Fairfield Campus Entry Sidewalk Improvements
	Date: July 12, 2017

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
 - iv. <http://www.xwalk.com/pages/TS40.htm>
 - b. PPBs- Wireless Pedestrian Push Buttons.
 - i. Model #/ Ordering Codes: Wireless AC-TS40BDSPFSW,Y,S,BR
 - ii. Wireless Transmitter and transmitter pole mounting kit.
 - iii. <http://www.xwalk.com/pages/Wireless-Push-Button.htm>
 - 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 extent 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:

Commercial General Liability	Product Liability and Completed Operations, Fire Damage Liability – Split Limit	\$1,000,000 per occurrence; \$2,000,000 aggregate
Automobile Liability – Any Auto	Combined Single Limit	\$1,000,000
Workers Compensation		Statutory limits pursuant to State law
Employers' Liability		\$1,000,000
Builder's Risk (Course of Construction)	Not Required	
Pollution Liability	Not Required	

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

invalid

no answer

707
451-2813

Meeting Title: Pre Bid	Mandatory Pre-Bid Meeting # 1	Project 17-008	
Date/Time: 7/6/17 9:30			
Location: FF campus entry (jobsite), Solano Community College District, Fairfield			
Name	Representing	E-Mail Address	Phone/Cell Number
Scott Christie	SCCD/owner (Swinerton - CM)	schristie@swinerton.com	415.46.5690
Alex Cabera	California Highway Const.	CHC - GROUP AOL.COM	415.755-7435
BRYAN HOLM	CAZADORO CONST.	bholm@cazadoro.com	415-466-6093
ALAN COOPER	SWANK CONST.	alan@swankconstruction.com	707 440 8808
John Lister	Lister Const.	John.L@ListerConst.com	707-491-2813
Steve Gregory	Gregory Eng. Inc.	Laplop1919@AOL.com	530-945-5677
HOCINE MURZOUK	HM CONSTRUCTION, INC	HMER123@gmail.com	510-495-7020
PATRICK MURPHY	KEREX ENGINEERING INC	patrick@kerexengineering.com	347-613-5788
JACON MULLER	FOR UNAPPAIRED CONSTRUCTION	JMULLER@K-INC.NET	925-245-1300

John L @ Lister inc. net

* indicated will not bid

*

AGENDA

PRE-BID CONFERENCE (Mandatory)

Solano Community College District Fairfield Campus Entry Sidewalks Improvement Project (#17-008)

July 6, 2017 at 9:30 a.m. at job site

1 INTRODUCTION

- 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:

_____ dollars \$ _____
BASE BID

- 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.

GENERAL NOTES

- ALL WORK SHALL BE IN ACCORDANCE WITH THE FEDERAL AMERICANS WITH DISABILITY ACT (ADA) STANDARDS.
- THE PROJECT FALLS UNDER THE JURISDICTION OF THE DEPARTMENT OF THE STATE ARCHITECTS (DSA), STATE OF CALIFORNIA.
- GOVERNING CODES: PARTS 1 TO 6 AND 9, TITLE 24, C.C.R.
- A COPY OF PARTS 1 TO 5, TITLE 24, C.C.R. SHALL BE KEPT ON THE JOB SITE DURING CONSTRUCTION.
- DSA SHALL BE NOTIFIED AT THE START OF CONSTRUCTION AND PRIOR TO THE PLACEMENT OF CONCRETE (SECTION 4-331, PART 1).
- THE PROJECT INSPECTOR MUST BE EMPLOYED BY THE OWNER AND APPROVED BY ALL OF THE FOLLOWING:
 - A/E OF RECORD
 - STRUCTURAL ENGINEER (WHEN APPLICABLE)
 - DSA
- INSPECTION SHALL BE PERFORMED IN ACCORDANCE WITH SECTION 4-333(B), PART 1, TITLE 24. THE DUTY OF THE INSPECTOR SHALL BE IN ACCORDANCE WITH SECTION 4-342, PART 1, TITLE 24.
- THE ARCHITECT AND THE STRUCTURAL ENGINEER SHALL PERFORM THEIR DUTIES IN ACCORDANCE WITH SECTION 4-333(A) AND 4-341, PART 1, TITLE 24.
- SUPERVISION OF CONSTRUCTION BY DSA SHALL BE IN ACCORDANCE WITH SECTION 4-334, PART 1, TITLE 24.
- ALL TESTS TO CONFORM TO THE REQUIREMENTS OF SECTION 4-335, PART 1, TITLE 24, AND APPROVED T & I SHEET.
- TESTS OF MATERIALS AND TEST LABORATORY SHALL BE IN ACCORDANCE WITH SECTION 4-335, PART 1, TITLE 24. THE SCHOOL DISTRICT SHALL EMPLOY AND PAY THE LABORATORY. COSTS OF RE-TEST MAY BE BACK CHARGED TO THE CONTRACTOR.
- CONTRACTOR, INSPECTOR, ARCHITECT AND ENGINEERS SHALL SUBMIT VERIFIED REPORTS (FORM SSS-6) IN ACCORDANCE WITH SECTION 4-336 AND 4-343, PART 1, TITLE 24.
- ALL ADDENDA AND CHANGE ORDERS MUST BE SIGNED AND APPROVED BY ALL OF THE FOLLOWING (SECTION 4-338, PART 1, TITLE 24):
 - A/E OF RECORD
 - OWNER (CHANGE ORDERS ONLY)
 - STRUCTURAL ENGINEER (WHEN APPLICABLE)
 - DELEGATED PROFESSIONAL ENGINEER (WHEN APPLICABLE)
 - DSA
- CHANGE ORDERS ARE NOT VALID UNTIL APPROVED BY DSA. ALL SUBSTITUTIONS SHALL BE CONSIDERED AS A CHANGE ORDER OR ADDENDA, AND SHALL BE APPROVED BY DSA PRIOR TO FABRICATION AND INSTALLATION.
- THE CONTRACTOR SHALL PERFORM HIS DUTIES IN ACCORDANCE WITH SECTION 4-343, PART 1, TITLE 24.
- THE INTENT OF THE DRAWINGS AND SPECIFICATIONS IS THAT THE WORK OF THE ALTERATION, REHABILITATION OR RECONSTRUCTION IS TO BE IN ACCORDANCE WITH TITLE 24, C.C.R. SHOULD ANY EXISTING CONDITIONS BE DISCOVERED WHICH IS NOT COVERED BY THE CONTRACT DOCUMENTS WHEREIN THE FINISHED WORK WILL NOT COMPLY WITH SAID TITLE 24, C.C.R., A CHANGE ORDER DETAILING AND SPECIFYING THE REQUIRED REPAIR WORK SHALL BE SUBMITTED TO AND APPROVED BY DSA BEFORE PROCEEDING WITH THE REPAIR WORK (SECTION 4-317C, PART 1, TITLE).
- DSA IS NOT SUBJECT TO ARBITRATION.
- WORK WHICH IS DAMAGED, CUT OR REMOVED AS A RESULT OF DEMOLITION UNDER THIS CONTRACT, AND WHICH IS TO REMAIN IN THE COMPLETED WORK SHALL BE RESTORED.
- ACCESSIBLE PATH OF TRAVEL AS INDICATED IS A BARRIER FREE ACCESS WITHOUT ANY ABRUPT CHANGES EXCEEDING 1/4" VERTICAL. MAXIMUM CROSS SLOPE IS 2% TYPICAL. U.O.N. THE CONTRACTOR SHALL VERIFY THAT ALL BARRIERS ON THE INDICATED PATH OF TRAVEL HAVE BEEN REMOVED PER 1133.B.7.
- CONSTRUCTION ACTIVITY ON THE SITE IS LIMITED TO 8:00 A.M. TO 6:00 P.M., AT THE END OF DAY'S WORK, AND AT OTHER TIMES WHEN CONSTRUCTION OPERATIONS ARE SUSPENDED. ALL EQUIPMENT AND OTHER CONSTRUCTION TOOLS SHALL BE REMOVED FROM THE SITE. ANY DIRT, DEBRIS OR MUD SHALL BE REMOVED FROM THE TRAVELED WAY.
- CUT AND FILL SLOPES SHALL BE ROUNDED AT THEIR EDGES.
- ALL DISTURBED AREAS SHALL BE HYDROSEEDING TO CONTROL EROSION BY SEPTEMBER 15.
- PROJECT GRADING CUT AND FILL SHALL BE BALANCED ON SITE CUT: 18 CU. YARDS± FILL: 18 CU. YARDS±
- TRENCHES 5 FEET DEEP OR MORE SHALL BE SHORED AND BRACED PER STATE LAW.
- ALL EXISTING UTILITIES ARE INDICATED IN THEIR APPROXIMATE LOCATION ACCORDING TO THE EXTENT OF THE BEST INFORMATION AVAILABLE. CONTRACTOR TO VERIFY EXACT LOCATIONS ON-SITE.
- THE CONTRACTOR SHALL HOLD HARMLESS THE OWNER AND ENGINEER FROM ANY AND ALL LIABILITY OR DAMAGE ARISING FROM HIS CONSTRUCTION ACTIVITIES.
- THE CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS.
- ANY DAMAGE CAUSED AS A RESULT OF THIS WORK SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE TO THE SATISFACTION OF THE OWNER OR ENGINEER.
- THE REMOVAL OF OBSTRUCTIONS (POWER POLES, FENCES, RETAINING WALLS, TREES STRUCTURES, PIPELINES, ETC.) SHALL BE AT THE CONTRACTORS EXPENSE.
- LIMITS OF GRADING SHALL BE STAKED IN THE FIELD PRIOR TO COMMENCEMENT OF GRADING ACTIVITIES.
- CONSTRUCTION EQUIPMENT SHALL BE PROHIBITED FROM AREAS OF THE SITE BEYOND THE LIMITS OF GRADING. AREAS OF NATURAL VEGETATION SHALL BE PROTECTED AS NECESSARY.
- ALL TREES TO BE SAVED WITHIN OR ADJACENT TO THE DESIGNATED AREA OF GRADING SHALL BE FENCED AT THEIR DRIP LINES PRIOR TO AND DURING CONSTRUCTION.
- THE CONTRACTOR SHALL NOTIFY THE DESIGN ENGINEER IMMEDIATELY OF ANY CONFLICT BETWEEN PROPOSED UTILITIES WITH OTHER UNDERGROUND FACILITIES.

ENTRY SIDEWALK IMPROVEMENTS

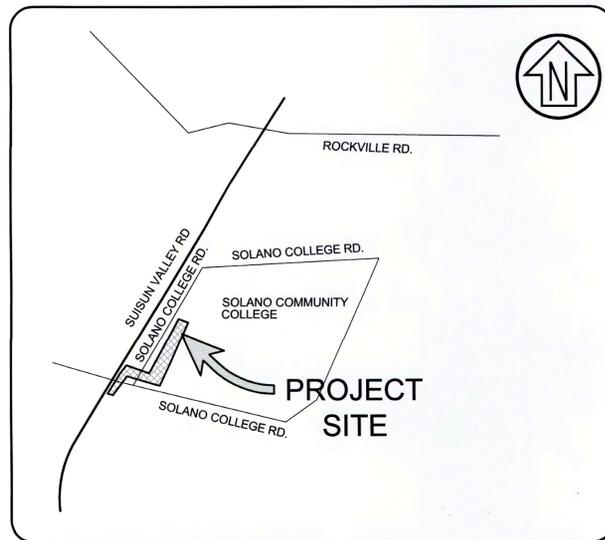
SOLANO COMMUNITY COLLEGE DISTRICT

FAIRFIELD CAMPUS

FAIRFIELD, SOLANO COUNTY, CALIFORNIA

DSA SUBMITTAL SET

DSA FILE NO. - 48-C1
 DSA APPLICATION NO. - 02-115864



VICINITY MAP
SCALE: NTS

APPLICABLE STATE CODES AS OF JANUARY 1, 2017

- 2016 BUILDING STANDARDS ADMINISTRATIVE CODE, PART 1, TITLE 24 C.C.R.
- 2016 CALIFORNIA BUILDING CODE (CBC), PART 2, TITLE 24 C.C.R. (2009 INTERNATIONAL BUILDING CODE AND 2010 CALIFORNIA AMENDMENTS)
- 2016 CALIFORNIA ELECTRICAL CODE (CEC), PART 3, TITLE 24 C.C.R. (2008 NATIONAL ELECTRICAL CODE AND 2010 CALIFORNIA AMENDMENTS)
- 2016 CALIFORNIA PLUMBING CODE (CPC), PART 5, TITLE 24 C.C.R. (2009 UNIFORM PLUMBING CODE AND 2010 CALIFORNIA AMENDMENTS)
- 2016 CALIFORNIA ENERGY CODE (CEC), PART 6, TITLE 24 C.C.R.

LIST OF FEDERAL CODES AND STANDARDS

AMERICANS WITH DISABILITIES ACT (ADA), TITLE 2
 2010 ADA STANDARDS FOR ACCESSIBLE DESIGN 28 CFR PART 35 FOR TITLE 2 ENTITIES.

FEMA INFORMATION:

FLOOD ZONE DESIGNATION - FLOOD INSURANCE RATE MAP NUMBER - EFFECTIVE DATE OF FIRM - ZONE X (AREA OUTSIDE 0.2% ANNUAL CHANCE FLOODPLAIN) 06095C0432E MAY 4, 2009

PROJECT DIRECTORY

DISTRICT: SOLANO COMMUNITY COLLEGE
 4000 SUISUN VALLEY ROAD,
 FAIRFIELD CA. 94534

CONSTRUCTION MANAGEMENT: KITCHELL
 360 CAMPUS DRIVE, SUITE 203
 FAIRFIELD CA. 94534
 PHONE: (707) 864-7189

CIVIL CSW / STUBER STROEH
 45 LEVERONI COURT
 NOVATO, CA. 94949
 PHONE: (415) 883-9850
 FAX: (415) 883-9835

SHEET INDEX

- C0.0 COVER SHEET AND GENERAL NOTES (DSA)
- C0.1 COVER SHEET AND GENERAL NOTES (CITY OF FAIRFIELD)
- C1.0 SIDEWALK IMPROVEMENT PLAN
- C1.1 SIDEWALK IMPROVEMENT PLAN
- C2.0 DETAILS AND SECTIONS
- C2.1 CURB RAMP GRADING AND LAYOUT DETAILS

ABBREVIATIONS

AB	AGGREGATE BASE	C&G	CURB AND GUTTER	FG	FINISH GRADE	O.C.	ON CENTER
AC	ASPHALT CONCRETE	CG&SW	CURB, GUTTER AND SIDEWALK	FL	FLOWLINE	P.C.C.	PORTLAND CEMENT CONCRETE
ACR	ACCESS COMPLIANT RAMP	DL	DAYLIGHT	FS	FINISH SURFACE	PRO	PROPOSED
BSW	BACK OF SIDEWALK	EG	EXISTING GRADE	GB	GRADE BREAK	SF	SQUARE FEET
CJ	CONTROL JOINT	EL	ELEVATION	HP	HIGH POINT	SW	SIDEWALK
CL	CENTERLINE / CONTROL LINE	EP	EDGE OF PAVEMENT	JP	JOINT POLE	TC	TOP OF CURB
CP	CONTROL POINT	EX	EXISTING	LF	LINEAR FEET	TP	TOP OF PAVEMENT
CR	CURB RETURN	FC	FACE OF CURB	LP	LOW POINT	UNO	UNLESS NOTED OTHERWISE
		NTS	NOT TO SCALE				

2. DESIGN PROFESSIONAL IN GENERAL RESPONSIBLE CHARGE STATEMENT: The drawing sheet delineating the Path of Travel (POT) for a project shall include the following statement:

"Design Professional in General Responsible Charge Statement: The POT identified in these construction documents is compliant with the current applicable California Building Code accessibility provisions for path of travel requirements for alterations, additions and structural repairs. As part of the design of this project, the POT was examined and any elements, components or portions of the POT that were determined to be noncompliant 1) have been identified and 2) the corrective work necessary to bring them into compliance has been included within the scope of this project's work through details, drawings and specifications incorporated into these construction documents. Any noncompliant elements, components or portions of the POT that will not be corrected by this project based on valuation threshold limitations or a finding of unreasonable hardship are so indicated in these construction documents.

During construction, if POT items within the scope of the project represented as code compliant are found to be nonconforming beyond reasonable construction tolerances, they shall be brought into compliance with the CBC as a part of this project by means of a construction change document."

PROJECT SCOPE OF WORK

SITE GRADING AND INSTALL SIDEWALKS, CURB RAMPS, AND CROSSWALKS FROM THE SOUTH ENTRANCE OF THE CAMPUS TO AN EXISTING SIDEWALK WITHIN THE INTERNAL CAMPUS.

BID SET
 NOT FOR CONSTRUCTION

CSW | ST 2
CSW/Stuber-Stroeh Engineering Group, Inc.
 45 Leveroni Court tel: 415.883.9850
 Novato, CA 94949 fax: 415.883.9835
 Civil & Structural Engineers
 Surveying & Mapping
 Environmental Planning
 Land Planning
 Construction Management

http://www.cswst2.com ©2011



IDENTIFICATION STAMP
 DIV. OF THE STATE ARCHITECT
 OFFICE OF REGULATION SERVICES
 APR 24 2017
 REVISION
 rev. date

SCCD - FAIRFIELD SIDEWALK ENTRY IMPROVEMENTS

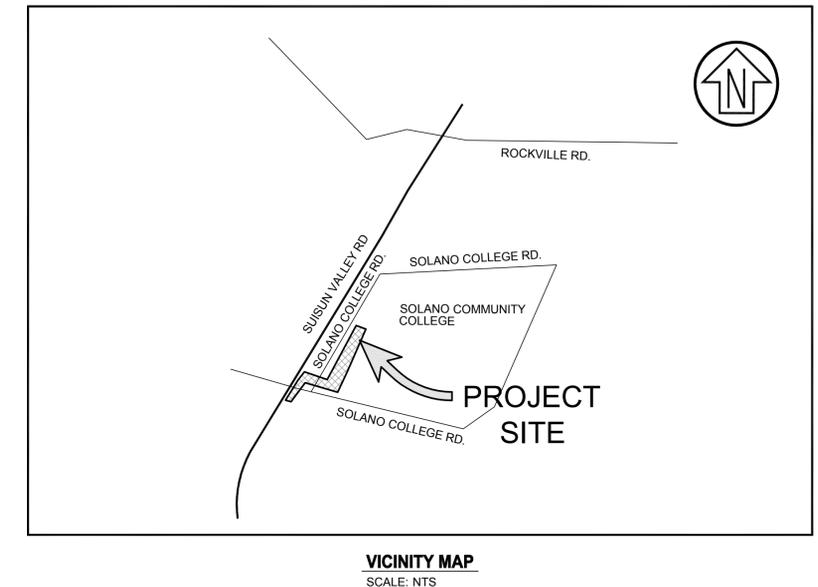
District Project #
 AE Project #

drawn by: RRB checked by: KSB
 scale: AS NOTED

COVER SHEET
C-0.0

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CONSTRUCTION DOCUMENTS FOR ENTRY SIDEWALK IMPROVEMENTS SCCD FAIRFIELD CAMPUS



LEGEND

EXISTING		PROPOSED
	BOLLARD	N/A
	SIGN	N/A
	LIGHT - POST MOUNTED	N/A
	POWER POLE (WITH GUY)	N/A
	SANITARY SEWER - CLEANOUT	N/A
	STORM DRAINAGE - AREA DRAIN	N/A
	STORM DRAINAGE - CLEANOUT	N/A
	STORM DRAINAGE - CATCH BASIN	N/A
	STORM DRAINAGE - CURB INLET	N/A
	STORM DRAINAGE - DROP INLET	N/A
	TRAFFIC LIGHT	N/A
	FOUND / SET - CONTROL POINT	N/A
	CONTOUR - MAJOR	
	CONTOUR - MINOR	
	CURB, GUTTER AND SIDEWALK	
	FENCE	
	FLOWLINE / SWALE	
	RIGHT OF WAY	
	RETAINING WALL	
	SANITARY SEWER	
	STORM DRAIN	
	TREE DRIPLINE	N/A

GENERAL NOTES

- WORK SHOWN HEREON SHALL BE DONE IN ACCORDANCE WITH THE CITY OF FAIRFIELD STANDARD CONSTRUCTION PLANS AND SPECIFICATIONS, LATEST EDITION, SOLANO COMMUNITY COLLEGE STANDARD PLANS AND DETAILS, THE STANDARD SPECIFICATIONS FOR THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION, LATEST EDITION, AND THE APPLICABLE UTILITY AGENCY STANDARD PLANS AND SPECIFICATIONS, LATEST EDITION.
- THE CONTRACTOR SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR THE JOB SITE CONDITIONS, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY, DURING THE COURSE OF CONSTRUCTION OF THIS PROJECT. THIS REQUIREMENT SHALL APPLY CONTINUOUSLY, AND SHALL NOT BE LIMITED TO NORMAL WORKING HOURS. THE CONTRACTOR FURTHER AGREES TO HOLD DESIGN PROFESSIONAL HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPTING LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF THE DESIGN PROFESSIONAL.
- CONTRACTOR SHALL HOLD HARMLESS SOLANO COMMUNITY COLLEGE AND ITS AUTHORIZED REPRESENTATIVES FROM ALL LIABILITIES AND DAMAGES RESULTING FROM HIS CONSTRUCTION OPERATIONS.
- PRIOR TO COMMENCING CONSTRUCTION OPERATIONS, THE CONTRACTOR SHALL VERIFY ALL INTERFACES BETWEEN EXISTING CONDITIONS AND NEW CONSTRUCTION FOR GRADING, DRAINAGE, UNDERGROUND, AND OVERHEAD FACILITIES, INCLUDING LOCATION AND ELEVATION OF EXISTING UNDERGROUND OR AT GRADE FACILITIES AT CROSSINGS WITH PROPOSED UNDERGROUND FACILITIES. IF CONDITIONS DIFFER FROM THOSE SHOWN ON THE PLANS, THE CONTRACTOR SHALL NOTIFY THE ENGINEER AND SHALL NOT BEGIN CONSTRUCTION OPERATIONS UNTIL THE CHANGED CONDITIONS HAVE BEEN EVALUATED.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REVIEW AND COORDINATION OF ALL CONTRACT DOCUMENTS PRIOR TO THE START OF CONSTRUCTION. ANY DISCREPANCIES THAT OCCUR SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER PRIOR TO THE START OF CONSTRUCTION SO THAT A CLARIFICATION CAN BE ISSUED. ANY WORK PERFORMED IN CONFLICT WITH THE CONTRACT DOCUMENTS SHALL BE CORRECTED BY THE CONTRACTOR AT THEIR OWN EXPENSE.
- THE ENGINEER PREPARING THESE PLANS WILL NOT BE RESPONSIBLE FOR, OR LIABLE FOR, UNAUTHORIZED CHANGES TO OR USES OF THESE PLANS. ALL CHANGES TO THE PLANS MUST BE IN WRITING AND MUST BE APPROVED BY THE ENGINEER.
- NOTES AND DETAILS ON DRAWINGS SHALL TAKE PRECEDENCE OVER GENERAL NOTES AND TYPICAL DETAILS. WHERE NO DETAILS ARE GIVEN, CONSTRUCTION SHALL BE AS SHOWN FOR SIMILAR WORK.
- ALL EASEMENTS OR OTHER ENCUMBRANCES SHOWN OR REFERENCED IN THESE PLANS OR DISCLOSED IN THE TITLE REPORT ARE SUBJECT TO INHERENT OR EXPLICIT RESTRICTIONS. THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING THE IMPACT OF THESE RESTRICTIONS ON HIS OR HER INTENT FOR THE PROPERTY.
- THE CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS FROM THE CITY OF FAIRFIELD AND APPROPRIATE JURISDICTIONAL AGENCIES FOR DISCHARGE OF GROUNDWATER THAT MAY BE NECESSARY TO ACCOMPLISH WORK SHOWN ON THESE PLANS.
- WATER SHALL BE USED TO CONTROL DUST DURING CONSTRUCTION OPERATIONS.
- OUTDOOR NOISE-GENERATING CONSTRUCTION ACTIVITIES (INCLUDING BUT NOT LIMITED TO RAPID IMPACT COMPACTION (RIC) GRADING, TRENCHING, CONCRETE PLACEMENT, SAWING AND HAMMERING) SHALL BE LIMITED TO THE HOURS BETWEEN 8 AM. AND 5PM, MONDAY THROUGH FRIDAY. FOR QUESTIONS REGARDING CONSTRUCTION HOURS AND/OR RELATED NOISE, PLEASE CONTACT THE ENGINEER.
- THE CONTRACTOR SHALL NOTIFY THE GEOTECHNICAL ENGINEER 48 HOURS PRIOR TO COMMENCING WORK. THE GEOTECHNICAL ENGINEER SHALL OBSERVE CONSTRUCTION TO VERIFY THAT EXISTING AND INSTALLED CONDITIONS ARE CONSISTENT WITH THE GEOTECHNICAL REPORT.
- IF, AT ANY TIME DURING GRADING OPERATIONS, ANY UNFAVORABLE GEOLOGICAL CONDITIONS ARE ENCOUNTERED, GRADING IN THAT AREA WILL STOP UNTIL APPROVED CORRECTIVE MEASURES ARE OBTAINED.
- ALL GRADED BANK TOPS AND TOES SHALL BE ROUNDED.
- ALL RAMP AND OTHER ACCESSIBILITY ACCOMMODATIONS ARE INTENDED TO COMPLY WITH THE CURRENT STANDARDS UNDER THE AMERICANS WITH DISABILITIES ACT. THE CONTRACTOR SHALL NOTIFY THE ENGINEER IF ANY PROPOSED IMPROVEMENTS ARE NOT CONSISTENT WITH THE STANDARDS.
- ALL STREETS SHALL BE SWEEPED AND KEPT CLEAN AT THE END OF EACH DAY AND SHALL COMPLY WITH ALL APPLICABLE MCSTOPPP, NPDES REQUIREMENTS FOR THE DURATION OF THE PROJECT WORK.
- THE CONTRACTOR SHALL CONTACT UNDERGROUND SERVICE ALERT (811) A MINIMUM OF 48 HOURS PRIOR TO EXCAVATION.
- THE CONTRACTOR SHALL OBTAIN AN O.S.H.A. PERMIT FROM THE CALIFORNIA DIVISION OF INDUSTRIAL SAFETY PRIOR TO THE CONSTRUCTION OF TRENCHES OR EXCAVATIONS WHICH ARE 5'OR DEEPER. ALL TRENCHES 5' IN DEPTH OR GREATER SHALL BE SHORED AND BRACED ACCORDING TO STATE LAW.
- UTILITIES AS SHOWN CONFORM TO AVAILABLE RECORD DATA. THE EXISTENCE, LOCATION AND CHARACTERISTICS OF UNDERGROUND UTILITY INFORMATION SHOWN ON THESE PLANS HAVE BEEN OBTAINED FROM A REVIEW OF AVAILABLE RECORD DATA. NO REPRESENTATION IS MADE AS TO THE ACCURACY OR COMPLETENESS OF SAID UTILITY INFORMATION. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY LOCATION AND DEPTHS BY POT-HOLING OF ALL UTILITIES WITH APPROPRIATE AGENCIES, AND TO TAKE PRECAUTIONARY MEASURES TO PROTECT THE UTILITY LINES SHOWN AND ANY OTHER LINES NOT OF RECORD OR NOT SHOWN ON THESE PLANS. ANY CONFLICTS SHALL BE REPORTED IMMEDIATELY TO THE ENGINEER.
- CONTRACTOR SHALL PROVIDE ALL MATERIAL, LABOR, EQUIPMENT, FOR INSTALLATION, IMPLEMENTATION, AND MAINTENANCE OF ALL SURFACE WATER POLLUTION PREVENTION MEASURES THROUGHOUT THE FULL EXTENT OF THE PROJECT.
- THIS SURVEY DOES NOT REFLECT A FINAL BOUNDARY DETERMINATION. THE BOUNDARY SHOWN HEREON IS DEPICTED FOR GRAPHICAL PURPOSES ONLY.
- DISTANCES SHOWN ARE IN FEET AND DECIMALS THEREOF.
- HORIZONTAL AND VERTICAL DATUM IS BASED ON LOCALIZATION OF AERIAL SURVEY CONTROL PROVIDED BY SOLANO COLLEGE.
- THESE PLANS COMPLY WITH ALL CURRENT APPLICABLE ADA/ADAG FOR PROW LAWS AT THE TIME OF PREPARATION.

U.S.A. NOTIFICATION SERVICE



SHEET INDEX

- C0.1 COVER SHEET AND GENERAL NOTES**
- C1.0 SIDEWALK IMPROVEMENT PLAN**
- C1.1 SIDEWALK IMPROVEMENT PLAN**
- C2.0 DETAILS AND SECTIONS**
- C2.1 CURB RAMP GRADING AND LAYOUT DETAILS**

ABBREVIATIONS

AB	AGGREGATE BASE	C&G	CURB AND GUTTER	FG	FINISH GRADE	O.C.	ON CENTER
AC	ASPHALT CONCRETE	CG&SW	CURB, GUTTER AND SIDEWALK	FL	FLOWLINE	P.C.C.	PORTLAND CEMENT CONCRETE
ACR	ACCESS COMPLIANT RAMP	DL	DAYLIGHT	FS	FINISH SURFACE	PRO	PROPOSED
BSW	BACK OF SIDEWALK	EG	EXISTING GRADE	GB	GRADE BREAK	SF	SQUARE FEET
CJ	CONTROL JOINT	EL	ELEVATION	HP	HIGH POINT	SW	SIDEWALK
CL	CENTERLINE / CONTROL LINE	EP	EDGE OF PAVEMENT	JP	JOINT POLE	TC	TOP OF CURB
CP	CONTROL POINT	EX	EXISTING	LF	LINEAR FEET	TP	TOP OF PAVEMENT
CR	CURB RETURN	FC	FACE OF CURB	LP	LOW POINT	UNO	UNLESS NOTED OTHERWISE
				NTS	NOT TO SCALE		

BASIS OF TOPOGRAPHY

TOPOGRAPHY SHOWN WAS PERFORMED BY FIELD SURVEY ON SEPTEMBER 9, 2016

BENCHMARK

VERTICAL DATUM IS BASED ON LOCALIZATION OF AERIAL SURVEY CONTROL FROM MOUNTAIN PACIFIC SURVEYS DATED 2012, AND PROVIDED BY SOLANO COLLEGE

BASIS OF BEARINGS

HORIZONTAL CONTROL IS BASED ON LOCALIZATION OF AERIAL SURVEY CONTROL FROM MOUNTAIN PACIFIC SURVEYS DATED 2012, AND PROVIDED BY SOLANO COLLEGE.

APPROVAL: _____

DATE: _____

TRAFFIC ENGINEER

RCE # _____

EXPIRATION _____

THIS SIGNATURE IN NO WAY RELIEVES THE DESIGN ENGINEER OF LIABILITY. THIS SIGNATURE SIGNIFIES THAT THE WORK IS IN GENERAL CONFORMANCE OF THE CITY'S GUIDELINES, PRACTICES, POLICIES, GENERAL PROVISIONS, AND SPECIFICATIONS.

Rev	Date	Description	Designed	Drawn	Checked
2	07/10/17	ADDENDUM 2			
1	06/28/17	ADDENDUM 1	SAS	SAS	KSB
-	06/19/17	ISSUED FOR BID/NOT FOR CONSTRUCTION	SAS	SAS	KSB

CSW ST2

CSW/Stuber-Stroeh Engineering Group, Inc.
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Land Planning | Construction Management
45 Leveroni Court
Novato, CA 94949
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fax: 415.883.9835
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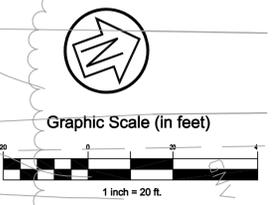
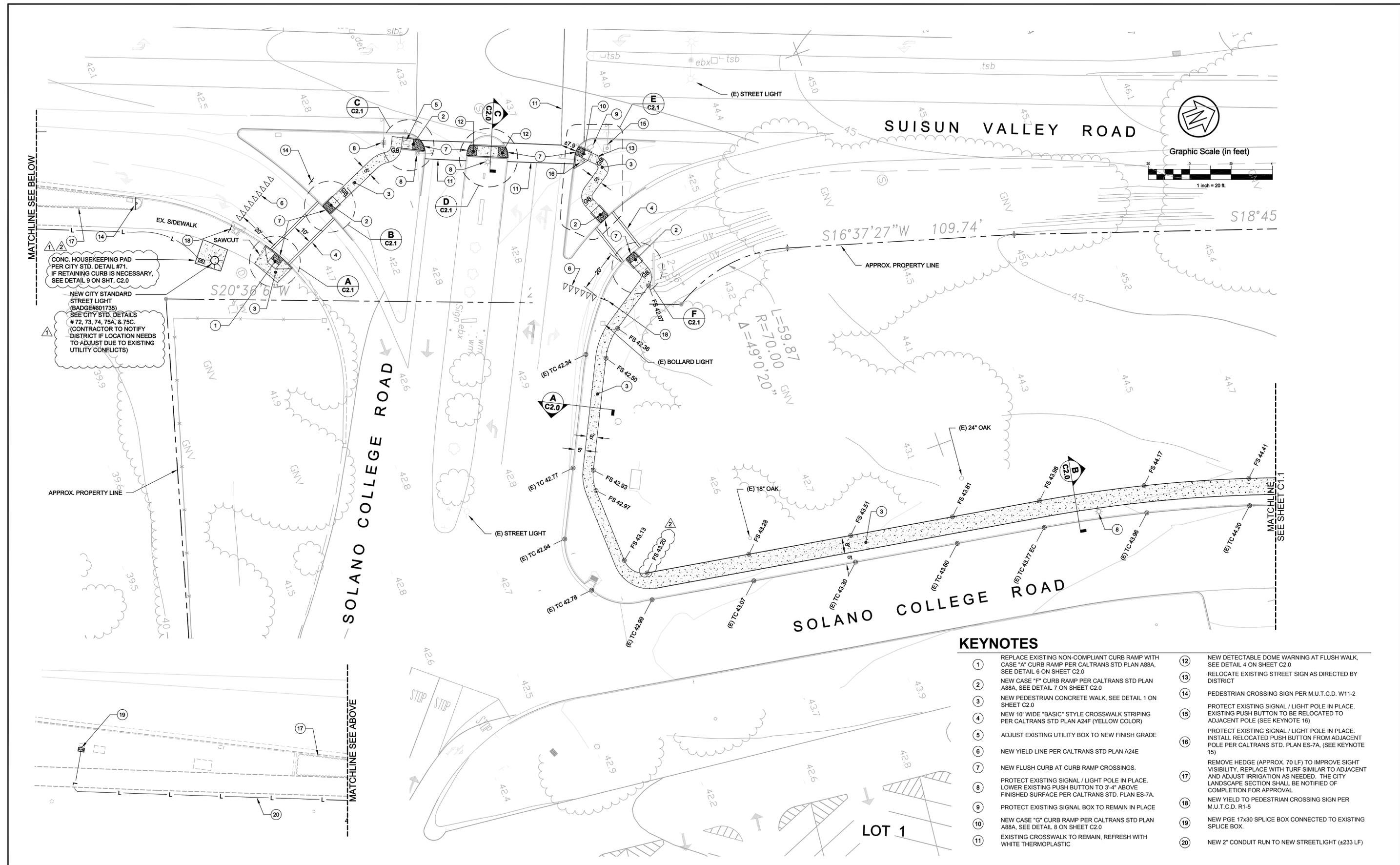
City FAIRFIELD
County SOLANO
State CALIFORNIA

SOLANO COMMUNITY COLLEGE
COVER SHEET AND GENERAL NOTES
FAIRFIELD CAMPUS ENTRY SIDEWALK IMPROVEMENT PROJECT

Prepared Under the Direction of:



Sheet **C0.1**
Scale: N.T.S.
Date: 02/09/2017
Project Number: 4116410
Plan File: D-5348.01



MATCHLINE SEE BELOW

MATCHLINE SEE SHEET C.1

MATCHLINE SEE ABOVE

KEYNOTES

- | | |
|---|---|
| <ul style="list-style-type: none"> 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 NEW FLUSH CURB AT CURB RAMP CROSSINGS. 8 PROTECT EXISTING SIGNAL / LIGHT POLE IN PLACE. LOWER EXISTING PUSH BUTTON TO 3'-4" ABOVE FINISHED SURFACE PER CALTRANS STD. PLAN ES-7A. 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 | <ul style="list-style-type: none"> 12 NEW DETECTABLE DOME WARNING AT FLUSH WALK. SEE DETAIL 4 ON SHEET C2.0 13 RELOCATE EXISTING STREET SIGN AS DIRECTED BY DISTRICT 14 PEDESTRIAN CROSSING SIGN PER M.U.T.C.D. W11-2 15 PROTECT EXISTING SIGNAL / LIGHT POLE IN PLACE. EXISTING PUSH BUTTON TO BE RELOCATED TO ADJACENT POLE (SEE KEYNOTE 16) 16 PROTECT EXISTING SIGNAL / LIGHT POLE IN PLACE. INSTALL RELOCATED PUSH BUTTON FROM ADJACENT POLE PER CALTRANS STD. PLAN ES-7A, (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. R1-5 19 NEW PGE 17x30 SPLICE BOX CONNECTED TO EXISTING SPLICE BOX. 20 NEW 2" CONDUIT RUN TO NEW STREETLIGHT (±233 LF) |
|---|---|

Rev	Date	Description	Designed	Drawn	Checked
2	07/10/17	ADDENDUM 2			
1	06/28/17	ADDENDUM 1	SAS	SAS	KSB
-	06/19/17	ISSUED FOR BID/NOT FOR CONSTRUCTION	SAS	SAS	KSB

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 45 Leveroni Court tel: 415.883.9850
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City	FAIRFIELD
County	SOLANO
State	CALIFORNIA

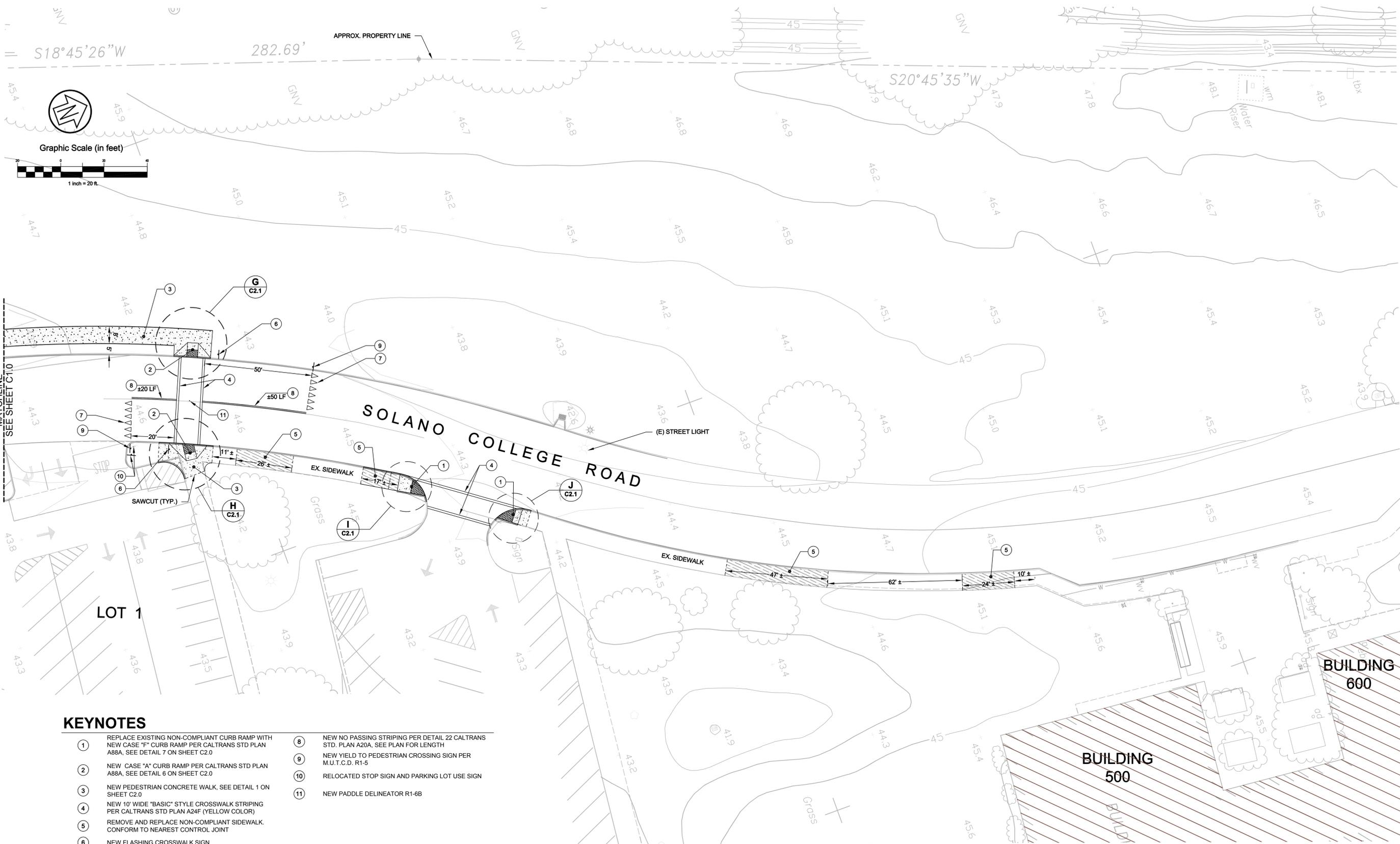
SOLANO COMMUNITY COLLEGE
SIDEWALK IMPROVEMENT PLAN
FAIRFIELD CAMPUS ENTRY SIDEWALK IMPROVEMENT PROJECT

Prepared Under the Direction of:

C1.0

Scale: 1" = 20'
 Date: 02/09/17
 Project Number: 4116410
 Plan File: D-5348.02

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KEYNOTES

- | | | | |
|---|---|----|--|
| 1 | REPLACE EXISTING NON-COMPLIANT CURB RAMP WITH NEW CASE "F" CURB RAMP PER CALTRANS STD PLAN A88A, SEE DETAIL 7 ON SHEET C2.0 | 8 | NEW NO PASSING STRIPING PER DETAIL 22 CALTRANS STD. PLAN A20A, SEE PLAN FOR LENGTH |
| 2 | NEW CASE "A" CURB RAMP PER CALTRANS STD PLAN A88A, SEE DETAIL 6 ON SHEET C2.0 | 9 | NEW YIELD TO PEDESTRIAN CROSSING SIGN PER M.U.T.C.D. R1-5 |
| 3 | NEW PEDESTRIAN CONCRETE WALK, SEE DETAIL 1 ON SHEET C2.0 | 10 | RELOCATED STOP SIGN AND PARKING LOT USE SIGN |
| 4 | NEW 10' WIDE "BASIC" STYLE CROSSWALK STRIPING PER CALTRANS STD PLAN A24F (YELLOW COLOR) | 11 | NEW PADDLE DELINEATOR R1-6B |
| 5 | REMOVE AND REPLACE NON-COMPLIANT SIDEWALK. CONFORM TO NEAREST CONTROL JOINT | | |
| 6 | NEW FLASHING CROSSWALK SIGN | | |
| 7 | NEW YIELD LINE PER CALTRANS STD. PLAN A24E | | |

Rev	Date	Description	Designed	Drawn	Checked
1	06/28/17	ADDENDUM 1	SAS	SAS	KSB
-	06/19/17	ISSUED FOR BID/NOT FOR CONSTRUCTION	SAS	SAS	KSB

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City	FAIRFIELD
County	SOLANO
State	CALIFORNIA

SOLANO COMMUNITY COLLEGE
SIDEWALK IMPROVEMENT PLAN
FAIRFIELD CAMPUS ENTRY SIDEWALK IMPROVEMENT PROJECT

Prepared Under the Direction of:

 KIRK S. BOVITZ
 No. 74631
 CIVIL
 STATE OF CALIFORNIA

Sheet
C1.1
 Scale: 1" = 20'
 Date: 02/09/17
 Project Number: 4116410
 Plan File: D-5348.03

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CAMPUS ENTRY SIDEWALK IMPROVEMENT

4000 SUISUN VALLEY ROAD

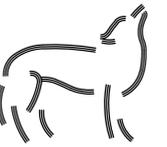
FAIRFIELD, CA

94534



VICINITY MAP:

N.T.S.



**Wulff
Electric**

820 EUBANKS DR.
VACAVILLE, CA
(707) 447-3920

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ELECTRICAL LEGEND AND ABBREVIATIONS:

- ALL SYMBOLS AND ABBREVIATIONS MAY NOT APPEAR ON THE DRAWINGS
- +48" WALL MOUNTED SHALL BE TO TOP OF BOX (ADA)

ABBREVIATIONS:

A	AMPERES	MTD	MOUNTED
AC	ASPHALT CONCRETE/AIR CONDITIONER	N	NEW, NEUTRAL
AFCI	ARC FAULT CIRCUIT INTERRUPTER	N/A	NOT APPLICABLE
AFF	ABOVE FINISHED FLOOR	NEC	NATIONAL ELECTRIC CODE
AFG	ABOVE FINISHED GRADE	NEMA	NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION
AL	ALUMINUM	NFPA	NATIONAL FIRE PROTECTION AGENCY
ARF	ABOVE RAISED FLOOR	NIC	NOT IN CONTRACT
ATS	AUTOMATIC TRANSFER SWITCH	N.T.S.	NOT TO SCALE
AWG	AMERICAN WIRE GAUGE	OC	ON CENTER
BLDG	BUILDING	OH	OVERHEAD
C	CONDUIT	OL	OVERLOAD
CATV	CABLE TELEVISION	OS	OCCUPANCY SENSOR
CB	CIRCUIT BREAKER	P	POLE, PHASE
CO	CONDUIT ONLY	PNL	PANELBOARD
CL	CENTER LINE	PP	POWERPACK
CLG	CEILING	QTY	QUANTITY
CKT	CIRCUIT	R	RELOCATED
CONC.	CONCRETE	REC	RECEPTACLE
CONT.	CONTINUED/CONTINUATION	REF	REFERENCE
CU	COPPER	REFRIG.	REFRIGERATOR
D	DEPTH, DIMMER, DEMOLITION	RM	ROOM
DEPT.	DEPARTMENT	RSC	RIGID STEEL CONDUIT
DIA	DIAMETER	SD	SMOKE DETECTOR
DN	DOWN	SF	SQUARE FEET
DP	DISTRIBUTION PANEL	SWBD	SWITCHBOARD
DW	DISHWASHER	TBD	TO BE DETERMINED
DWG	DRAWING	TEL	TELEPHONE
E	EXISTING	TGB	TELECOMMUNICATIONS GROUNDING BUSS BAR
EA	EACH	TTB	TELEPHONE TERMINAL BOARD
EF	EXHAUST FAN	TC	TERMINAL CABINET
ELEC	ELECTRIC, ELECTRICAL	TV	TELEVISION
EM	EMERGENCY	TYP	TYPICAL
EMT	ELECTRICAL METALLIC TUBING	UG	UNDERGROUND
ENT	ELECTRICAL NON-METALLIC TUBING	UON	UNLESS OTHERWISE NOTED
EQUIP	EQUIPMENT	V	VOLT, VOLTS
ER	EXISTING TO REMAIN	VA	VOLT AMPERE(S)
F	FUTURE	W	WIRE, WIDTH
FA	FIRE ALARM	WP	WEATHERPROOF
FACP	FIRE ALARM CONTROL PANEL	W/	WITH
FC	FAN COIL	W/O	WITHOUT
FIXT	FIXTURE	XFMR	TRANSFORMER
FLOUR	FLOURESCENT		
FT	FOOT, FEET		
G,GND	GROUND		
GD	GARBAGE DISPOSAL		
GFCI	GROUND FAULT CIRCUIT INTERRUPTER		
HP	HORSEPOWER		
HT	HEIGHT		
ID	IDENTIFICATION		
INV	INVERTER		
INCAN	INCANDESCENT		
KV	KILOVOLT		
KVA	KILOVOLT AMPERE		
KW	KILOWATT		
LCP	LIGHTING CONTROL PANEL		
LED	LIGHTING EMITTING DIODE		
LTG	LIGHTING		
LV	LOW VOLTAGE		
M	MOTOR		
MAX	MAXIMUM		
MIN	MINIMUM		
MISC	MISCELLANEOUS		
MLO	MAIN LUGS ONLY		
MOCPP	MAXIMUM OVERCURRENT PROTECTION		
MPOE	MAIN POINT OF ENTRY		
MTS	MANUAL TRANSFER SWITCH		

ELECTRICAL LEGEND:

	CIRCUIT BREAKER
	CONDUIT DOWN
	CONDUIT STUBBED AND CAPPED
	CONDUIT UP
	DATA AND TELEPHONE OUTLET COMBINATION
	DAYLIGHT SENSOR FOR AUTOMATIC DIMMING
	DISCONNECT SWITCH - BLANK INDICATES UNFUSED, "F" INDICATES FUSED
	DOUBLE DUPLEX RECEPTACLE
	DUPLEX RECEPTACLE
	DUPLEX RECEPTACLE - HALF CONTROLLED
	DUPLEX RECEPTACLE - GFI
	DUPLEX RECEPTACLE - FULLY CONTROLLED
	DUPLEX RECEPTACLE - WEATHERPROOF
	EMERGENCY LIGHTING FIXTURE
	EXIT SIGN CEILING MOUNTED, ARROW INDICATES DIRECTION, IF SHOWN
	EXHAUST FAN
	FAN COIL
	FLUSH FLOOR RECEPTACLE AND DATA COMBINATION
	GROUND CONNECTION
	HOMERUN TO PANELBOARD OR CABINET AS NOTED
	JUNCTION BOX
	LIGHTN INVERTER
	METER
	MOTOR
	OCCUPANCY SENSOR - CEILING MOUNTED
	PANELBOARD
	PHOTOCELL
	POLE MOUNTED FIXTURE
	SWITCH - DIMMER
	SWITCH - OCCUPANCY SENSOR/AB
	SWITCH - OCCUPANCY SENSOR
	SWITCH - OCCUPANCY SENSOR W/ DIMMER
	SWITCHBOARD, DISTRIBUTION PANEL OR MOTOR CONTROL CENTER
	TELEPHONE BACKBOARD
	UTILITY POLE
	TRANSFORMER

SHEET INDEX:

- E0.0 - COVER SHEET
- E1.0 - ELECTRICAL GENERAL NOTES
- E2.0 - SITE PLAN
- E2.1 - SITE PLAN PHOTOMETRICS
- E3.0 - DETAILS

CALLOUTS:

	MECHANICAL EQUIPMENT
	EQUIPMENT NUMBER
	DETAIL NUMBER
	SHEET NUMBER
	SHEET NOTE NUMBER
	REVISION NUMBER

SOLANO COMMUNITY COLLEGE
CAMPUS ENTRY IMPROVEMENT PROJECT
4000 SUISUN VALLEY ROAD
FAIRFIELD, CA
94534

COVER SHEET

NUMBER:	REVISION:	DATE:
	XXX	XXX
	XXX	XXX

ISSUED FOR:	BID
DATE:	07.05.17
SCALE:	N.A.
DRAWN:	FC

SHEET:

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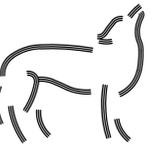
ISSUED FOR BID

ELECTRICAL GENERAL NOTES

1. ADOPTED CODES AND STANDARDS FOR THIS PROJECT INCLUDE, BUT ARE NOT LIMITED TO, THE 2016 CALIFORNIA ELECTRICAL CODE [CEC], 2016 CALIFORNIA BUILDING ENERGY EFFICIENCY STANDARDS TITLE 24 [CBEES] SAN JOAQUIN COUNTY ORDINANCE AND AMENDMENTS.
2. ALL ELECTRICAL PREFABRICATED EQUIPMENT SHALL BE DESIGNED AND CONSTRUCTED IN SUCH A MANNER THAT ALL PORTIONS, ELEMENTS, SUB-ASSEMBLIES, AND/OR PARTS OF SAID EQUIPMENT, AND THE EQUIPMENT AS A WHOLE INCLUDING ATTACHMENTS, WILL RESIST A LOAD WHICH EXCEEDS THE FORCE LEVEL USED TO RESTRAINT AND ANCHOR THE EQUIPMENT TO THE SUPPORTING STRUCTURE.
3. ALL ELECTRICAL MATERIALS AND EQUIPMENT SHALL BE NEW AND SHALL BE LISTED BY UNDERWRITER'S LABORATORIES (UL) AND BEAR THEIR LABEL OR LISTED OR CERTIFIED BY A NATIONALLY RECOGNIZED TESTING AUTHORITY WHERE UL DOES NOT HAVE A LISTING. CUSTOM MADE EQUIPMENT SHALL HAVE COMPLETE TEST DATE SUBMITTED BY THE MANUFACTURERS ATTESTING TO ITS SAFETY. IN ADDITION, THE MATERIALS, EQUIPMENT, AND INSTALLATION SHALL COMPLY WITH THE REQUIREMENTS OF THE FOLLOWING:
 - AMERICAN SOCIETY OF TESTING MATERIALS (ASTM)
 - INSULATED POWER CABLE ENGINEERS ASSOCIATION (IPCEA)
 - AMERICAN STANDARD ASSOCIATION (ASA)
 - NATIONAL FIRE PROTECTION ASSOCIATION (NFPA)
 - AMERICAN NATIONAL STANDARD INSTITUTE (ANSI)
 - 2016 CALIFORNIA ELECTRICAL CODE (CEC)
 - INSTITUTE OF ELECTRICAL & ELECTRONIC ENGINEERS (IEEE)
 - ALL LOCAL CODES HAVING JURISDICTION

WHERE THE CODES HAVE DIFFERENT LEVELS OF REQUIREMENTS, THE MOST STRINGENT RULE SHALL APPLY.
4. THE CONTRACTOR SHALL VISIT THE SITE INCLUDING ALL AREAS INDICATED ON THE DRAWINGS. HE SHALL THOROUGHLY FAMILIARIZE HIMSELF WITH THE EXISTING CONDITIONS AND BY SUBMITTING A BID, ACCEPTS THE CONDITIONS UNDER WHICH HE SHALL BE REQUIRED TO PERFORM HIS WORK.
5. IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO OBTAIN A COMPLETE SET OF CONTRACT DOCUMENTS, ADDENDA, DRAWINGS, AND SPECIFICATIONS. HE SHALL CHECK THE DRAWINGS OF THE OTHER TRADES AND SHALL CAREFULLY READ THE ENTIRE SPECIFICATIONS AND DETERMINE HIS RESPONSIBILITIES. FAILURE TO DO SO SHALL NOT RELEASE THE CONTRACTOR FROM DOING THE WORK IN COMPLETE ACCORDANCE WITH THE DRAWINGS AND SPECIFICATIONS.
6. THE CONTRACTOR SHALL COORDINATE HIS WORK WITH OTHER TRADES AT THE SITE. ANY COSTS TO INSTALL WORK TO ACCOMPLISH SAID COORDINATION WHICH DIFFERS FROM THE WORK AS SHOWN ON THE DRAWINGS SHALL BE INCURRED BY THE CONTRACTOR. ANY DISCREPANCIES, AMBIGUITIES, OR CONFLICTS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER DURING BID TIME FOR CLARIFICATION. ANY SUCH CONFLICTS NOT CLARIFIED PRIOR TO BID SHALL BE SUBJECT TO THE INTERPRETATION OF THE ENGINEER AT NO ADDITIONAL COST TO THE OWNER.
7. THE CONTRACTOR SHALL PROVIDE AND KEEP UP-TO-DATE A COMPLETE RECORD SET OF DRAWINGS. THESE PRINTS SHALL BE CORRECTED ACCORDINGLY AND SHOW EVERY CHANGE FROM THE ORIGINAL DRAWINGS. THIS SET OF DRAWINGS SHALL BE KEPT ON THE JOB SITE AND SHALL BE USED ONLY AS A RECORD SET. THIS SHALL NOT BE CONSTRUED AS AUTHORIZATION FOR THE CONTRACTOR TO MAKE CHANGES IN THE LAYOUT WITHOUT DEFINITE INSTRUCTION IN EACH CASE. UPON COMPLETION OF THE WORK, A SET OF REPRODUCIBLE CONTRACT DRAWINGS SHALL BE OBTAINED FROM THE ENGINEER, AND ALL CHANGES AS NOTED ON THE RECORD SET OF DRAWINGS SHALL BE INCORPORATED ON REPRODUCIBLE BOND WITH BLACK INK IN NEAT, LEGIBLE, UNDERSTANDABLE, AND PROFESSIONAL MANNER PER CLIENT'S REQUEST.
8. IN SOME INSTANCES, IT MAY BE NECESSARY TO DEFER WORK IN CERTAIN AREAS AND LOCATIONS UNTIL SUCH TIME AS EXISTING FACILITIES CAN BE TEMPORARILY OR PERMANENTLY REARRANGED BY THE OWNER. THEREFORE, WHENEVER IT BECOMES NECESSARY FOR THE CONTRACTOR TO PERFORM WORK UNDER THIS CONTRACT IN EXISTING AREAS IN WHICH THE OWNER'S WORK IS BEING PERFORMED, THE CONTRACTOR SHALL ADVISE THE OWNER RELATIVE TO THIS REQUIREMENT AND SHALL FOLLOW CLOSELY THE DIRECTIVE ISSUED BY THE ENGINEER INsofar AS TIME AND PROCEDURES ARE CONCERNED.
9. ALL INTERRUPTION OF ELECTRICAL POWER SHALL BE KEPT TO A MINIMUM. HOWEVER, WHEN AN INTERRUPTION IS NECESSARY, THE SHUTDOWN MUST BE COORDINATED WITH THE OWNER 7 DAYS PRIOR TO THE OUTAGE. ANY OVERTIME PAY AND WORK REQUIRED TO BE ACCOMPLISHED ON WEEKENDS SHALL BE INCLUDED IN THE CONTRACTORS BID. WORK IN EXISTING SWITCHBOARDS OR PANELBOARDS SHALL BE COORDINATED WITH THE OWNER PRIOR TO REMOVING ACCESS PANELS OR DOORS.
10. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO REVIEW AND TO COORDINATE WITH THE MECHANICAL, FIRE PROTECTION, AND PLUMBING DRAWINGS FOR DUCT LINES AND EQUIPMENT.
11. ALL EQUIPMENT MOUNTED ON ROOF FOR CONNECTION OF HVAC EQUIPMENT SHALL BE MOUNTED ON UNISTRUT STANDS UTILIZING APPROVED PITCH POCKETS, FLASHING, ETC.
12. AFTER ALL REQUIREMENTS OF THE SPECIFICATIONS AND/OR THE DRAWINGS HAVE BEEN FULLY COMPLETED, REPRESENTATIVES OF THE OWNER WILL INSPECT THE WORK. THE CONTRACTOR SHALL PROVIDE COMPETENT PERSONNEL TO DEMONSTRATE THE OPERATION OF ANY ITEM OR SYSTEM TO THE FULL SATISFACTION OF EACH REPRESENTATIVE. FINAL ACCEPTANCE OF THE WORK WILL BE MADE BY THE OWNER AFTER RECEIPT OF APPROVAL AND RECOMMENDATION OF ACCEPTANCE FROM EACH REPRESENTATIVE.
13. THE CONTRACTOR SHALL FURNISH A ONE YEAR WRITTEN GUARANTEE OF MATERIALS AND WORKMANSHIP FROM THE DATE OF SUBSTANTIAL COMPLETION.
14. COORDINATE WITH OTHER TRADES AS TO THE EXACT LOCATION AND CONFIGURATION OF THEIR RESPECTIVE EQUIPMENT, SUPPLY POWER AND MAKE CONNECTION TO MOTORS AND EQUIPMENT REQUIRING ELECTRICAL CONNECTIONS AS INDICATED ON THE SINGLE LINE DIAGRAM, ELECTRICAL DRAWINGS, AND DRAWINGS OF OTHER TRADES. REVIEW THE DRAWINGS OF OTHER TRADES FOR CONTROL DIAGRAMS, SIZE AND LOCATIONS OF EQUIPMENT. DISCONNECT SWITCHES, STARTERS, WIRING, CONTROLS, AND CONDUIT FOR MECHANICAL AND PLUMBING OPERATIONS SHALL BE PROVIDED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING MANUFACTURER'S SHOP DRAWINGS PRIOR TO ROUGHING IN ALL CONDUIT TO THIS EQUIPMENT.
15. EXACT METHOD AND LOCATION OF CONDUIT PENETRATION AND OPENINGS IN CONCRETE OR MASONRY WALLS, GRADEBEAMS, FLOORS, OR STRUCTURAL STEEL MEMBERS SHALL BE AS DIRECTED BY THE STRUCTURAL ENGINEER. PERFORM CORING, SAWCUTTING, PATCHING, AND REFINISHING OF WALLS AND SURFACES WHEREVER IT IS NECESSARY, TO PENETRATE OPENINGS SHALL BE SEALED IN AN APPROVED METHOD TO MEET THE FIRE RATING OF OPENINGS IN CONCRETE WALLS OR FLOORS SHALL BE FOR UL APPROVED SYSTEMS.
16. CONNECTIONS TO VIBRATING EQUIPMENT, MECHANICAL, AND PLUMBING EQUIPMENT AND SEISMIC SEPARATIONS:
 - LIQUID-TIGHT CONDUIT IN ALL LOCATIONS
 - MAXIMUM LENGTH OF FLEXIBLE CONDUIT RUNS SHALL BE 6'-0" U.O.N.

17. EQUIPMENT OUTLETS, LIGHTING FIXTURES, CONDUIT, WIRE, AND CONNECTION METHODS IN HVAC AIR-PLenums SHALL BE APPROVED FOR USE IN PLENUMS AND SHALL CONFORM TO THE NEC.
18. CONDUIT SHALL NOT BE INSTALLED IN ANY FLOOR SLAB. CONDUIT SHALL BE INSTALLED CONCEALED IN THE CEILING SPACE, CONCEALED IN WALLS, OR BELOW SLAB ON GRADE. UNLESS OTHERWISE NOTED.
19. WHENEVER A DISCREPANCY IN QUANTITY OR SIZE OF CONDUIT, WIRE, EQUIPMENT DEVICES, CIRCUIT BREAKERS, GROUND FAULT PROTECTION SYSTEM, ETC., (ALL MATERIALS), ARISES ON THE DRAWINGS OR SPECIFICATIONS, THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING AND INSTALLING ALL MATERIALS AND SERVICES REQUIRED BY THE STRICTEST CONDITIONS NOTED ON THE DRAWINGS OR IN THE SPECIFICATIONS TO ENSURE COMPLETE AND OPERABLE SYSTEMS AS REQUIRED BY THE OWNER AND ENGINEER.
20. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY TYPE OF CEILING SYSTEMS AND TO FURNISH APPROVED LIGHTING FIXTURES OF THE TYPE REQUIRED FOR MOUNTING IN SUBJECT CEILING. WHERE FIXTURES ARE RECESSED IN PLASTER OR DRYWALL CEILINGS, THEY SHALL BE COMPLETE WITH NECESSARY MOUNTING HARDWARE AND PLASTER FRAMES.
21. ALL RECESSED LIGHTING FIXTURES, SPEAKERS, RECEPTACLES, SWITCHES, ETC., MOUNTED IN THE FIRE RATED CEILINGS OR WALLS SHALL BE ENCLOSED WITH AN APPROVED ENCLOSURE CARRYING THE SAME FIRE RATING AS THE CEILING OR WALL BY THIS CONTRACTOR.
22. UTILITY PENETRATIONS OF ANY KIND IN FIRE AND SMOKE PARTITIONS AND CEILING ASSEMBLIES, SHALL BE FIRESTOPPED AND SEALED WITH AN APPROVED MATERIAL SECURELY INSTALLED.
 - UTILITY AND ELECTRICAL OUTLETS OR BOXES SHALL BE SECURELY FASTENED TO THE STUD OF FRAMING OF THE WALL, PARTITION, OR CEILING ASSEMBLY. THE OPENING IN THE GYPSUM BOARD DOES NOT EXCEED 1/8 INCH. IN SMOKE WALLS OR PARTITIONS, THE 1/8 INCH CLEARANCE SHALL BE FILLED WITH AN APPROVED FIRE RATED SEALANT.
23. ARCHITECTURAL REFLECTED CEILING PLANS INDICATING THE LOCATION OF LIGHTING FIXTURES SHALL TAKE PRECEDENCE OVER THE LOCATIONS OF SAME SHOWN ON THE ELECTRICAL DRAWINGS. INSTALL THE LIGHTING FIXTURES IN ANY GIVEN AREA TO AGREE WITH THE REFLECTED CEILING PLANS. DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT.
24. THE EXACT LOCATIONS AND MOUNTING HEIGHTS OF LIGHTING FIXTURES LOCATED IN MECHANICAL EQUIPMENT SPACES AND STORAGE SHALL BE COORDINATED IN THE FIELD BEFORE INSTALLATION TO AVOID INTERFERENCES WITH DUCTS, PIPING, AND OTHER MECHANICAL EQUIPMENT AND ALL MOUNTING HARDWARE SHALL BE INCLUDED IN BASE BID. WHEN LOCATIONS AND MOUNTING HEIGHTS ARE DETERMINED, OBTAIN APPROVAL FROM THE ENGINEER PRIOR TO INSTALLATION.
25. MAXIMUM NUMBER OF CONDUCTORS IN OUTLET OR JUNCTION BOXES SHALL CONFORM TO 2016 CALIFORNIA ELECTRICAL CODE (CEC)
26. THE EXACT LOCATION OF ALL ELECTRICAL DEVICES AND EQUIPMENT SHALL BE COORDINATED WITH THE ARCHITECTURAL ELEVATIONS, DETAILS, OR SECTIONS PRIOR TO INSTALLATION. ALL ELECTRICAL DEVICES AND EQUIPMENT SHALL BE RECESSED IN WALLS, UNLESS OTHERWISE NOTED. OUTLETS NOT INDICATED ON ARCHITECTURAL ELEVATIONS SHALL BE COORDINATED WITH THE ARCHITECT PRIOR TO ROUGH-IN, UNLESS OTHERWISE NOTED.
27. DRAWINGS ARE DIAGRAMMATIC ONLY AND DO NOT SHOW SPECIAL CONDUIT ROUTING OR LENGTHS REQUIRED FOR A COMPLETE INSTALLATION. ROUTING OF RACEWAYS SHALL BE THE OPTION OF THE CONTRACTOR BUT SHALL BE IN STRICT COMPLIANCE WITH STRUCTURAL REQUIREMENTS AND SPECIFICATIONS, UNLESS OTHERWISE NOTED AND SHALL BE COORDINATED WITH OTHER TRADES. DO NOT SCALE THE ELECTRICAL DRAWINGS FOR LOCATIONS OF ANY ELECTRICAL, ARCHITECTURAL, STRUCTURAL, CIVIL, OR MECHANICAL ITEMS OR FEATURES. REFER TO ARCHITECTURAL AND STRUCTURAL DIMENSIONAL DRAWINGS.
28. THE EQUIPMENT GROUNDING CONDUCTOR RUNS SHALL BE INSTALLED AND RUN CONTINUOUS FROM PANEL TO LAST OUTLET. THIS WIRE SHALL BE PITTAILED IN EACH OUTLET FOR CONNECTION TO BOX AND DEVICE SO THAT IF DEVICE IS REMOVED, GROUND WILL NOT BE INTERRUPTED. ALL EQUIPMENT, GROUNDING CONDUCTORS SHALL BE INSULATED GREEN OR BARE CONDUCTORS. ALTERNATE METHODS OF IDENTIFICATION SHALL NOT BE USED.
29. DRAWINGS ARE DIAGRAMMATIC ONLY AND DO NOT SHOW SPECIAL CONDUIT ROUTING OR LENGTHS REQUIRED FOR A COMPLETE INSTALLATION. ROUTING OF RACEWAYS SHALL BE AT THE OPTION OF THE CONTRACTOR BUT SHALL BE IN STRICT COMPLIANCE WITH STRUCTURAL REQUIREMENTS AND SPECIFICATIONS, UNLESS OTHERWISE NOTED AND SHALL BE COORDINATED WITH OTHER TRADES. DO NOT SCALE THE ELECTRICAL DRAWINGS FOR LOCATIONS OF ANY ELECTRICAL ARCHITECTURAL, STRUCTURAL, CIVIL, OR MECHANICAL ITEMS OR FEATURES. REFER TO ARCHITECTURAL AND STRUCTURAL DIMENSIONAL DRAWINGS.
30. FOR SMALL AC MOTORS NOT HAVING BUILT-IN THERMAL OVERLOAD PROTECTION, PROVIDE MANUAL MOTOR STARTERS WITH OVERLOAD HEATER ELEMENTS SIZED TO THE NAMEPLATE CURRENT RATING OF THE MOTOR. SMALL AC MOTORS WITH BUILT-IN THERMAL OVERLOAD PROTECTION, PROVIDE A HORSE POWER RATED TOGGLE TYPE DISCONNECT SWITCH.
31. BOXES SHALL BE SIZED FOR THE NUMBER AND SIZES OF CONDUCTORS AND CONDUIT ENTERING THE BOX AND EQUIPPED WITH PLASTER EXTENSION RINGS WHERE REQUIRED.
32. LIGHTS MUST BE PROVIDED WITH SHATTERPROOF PROTECTION OR CONTAINMENT WHEN LOCATED OVER AREAS USED FOR FOOD PREPARATION (INCLUDING BEVERAGES), UTENSIL WASHING, OPENED FOOD STORAGE, AND WHERE THE LIGHT FIXTURES ARE EXPOSED TO EMPLOYEE CONTACT (e.g., INSIDE REFRIGERATION UNITS).
33. LIGHT OF AT LEAST 50 FOOT-CANDLE (fc) INTENSITY MUST BE PROVIDED DURING HOURS OF OPERATION IN KITCHEN AND OTHER FOOD HANDLING AREAS. OTHER AREAS (INCLUDING WALK-IN REFRIGERATOR AND FREEZER UNITS) MAY OPERATE WITH A LIGHT INTENSITY OF AT LEAST 10 fc, EXCEPT DURING CLEANING ACTIVITIES WHEN AT LEAST 50 fc INTENSITY MUST BE PROVIDED.
34. PROVIDE SOUND INSULATION AT ALL CONDUIT PENETRATIONS AT SOUND BARRIER RATED WALLS. TYPICAL UNLESS OTHERWISE NOTED.
35. WHERE OUTLETS OCCUR AT TACKABLE WALL PANELS OR OTHER WALL FINISHES, PROVIDE EXTENSION RINGS AS REQUIRED SO THAT NO SPACE WILL EXIST BETWEEN DEVICE PLATE AND BACKBOX. SEE ARCHITECTURAL ELEVATIONS FOR WALL FINISHES AND LOCATIONS.
36. GROUNDING SYSTEM:
 - THE GROUNDING SYSTEM SHALL BE DERIVED PER 2016 CEC:
 - A) 10' OF METAL UNDERGROUND WATER PIPE
 - B) METAL FRAME OF BUILDING OR STRUCTURE WHERE EFFECTIVELY GROUNDED
 - C) AN ELECTRODE ENCASED BY AT LEAST 2" OF CONCRETE LOCATED WITHIN OR NEAR THE BOTTOM OF A CONCRETE FOUNDATION THAT IS IN DIRECT CONTACT WITH THE EARTH 20' ZINC GALVANIZED OR OTHER ELECTRICALLY CONDUCTIVE STEEL REINFORCING BAR OR ROD NOT LESS THAN 1/2" IN DIAMETER OR BARE COPPER CONDUCTOR NOT SMALLER THAN #4AWG.



Wulff Electric

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CAMPUS ENTRY IMPROVEMENT PROJECT
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FAIRFIELD, CA 94534

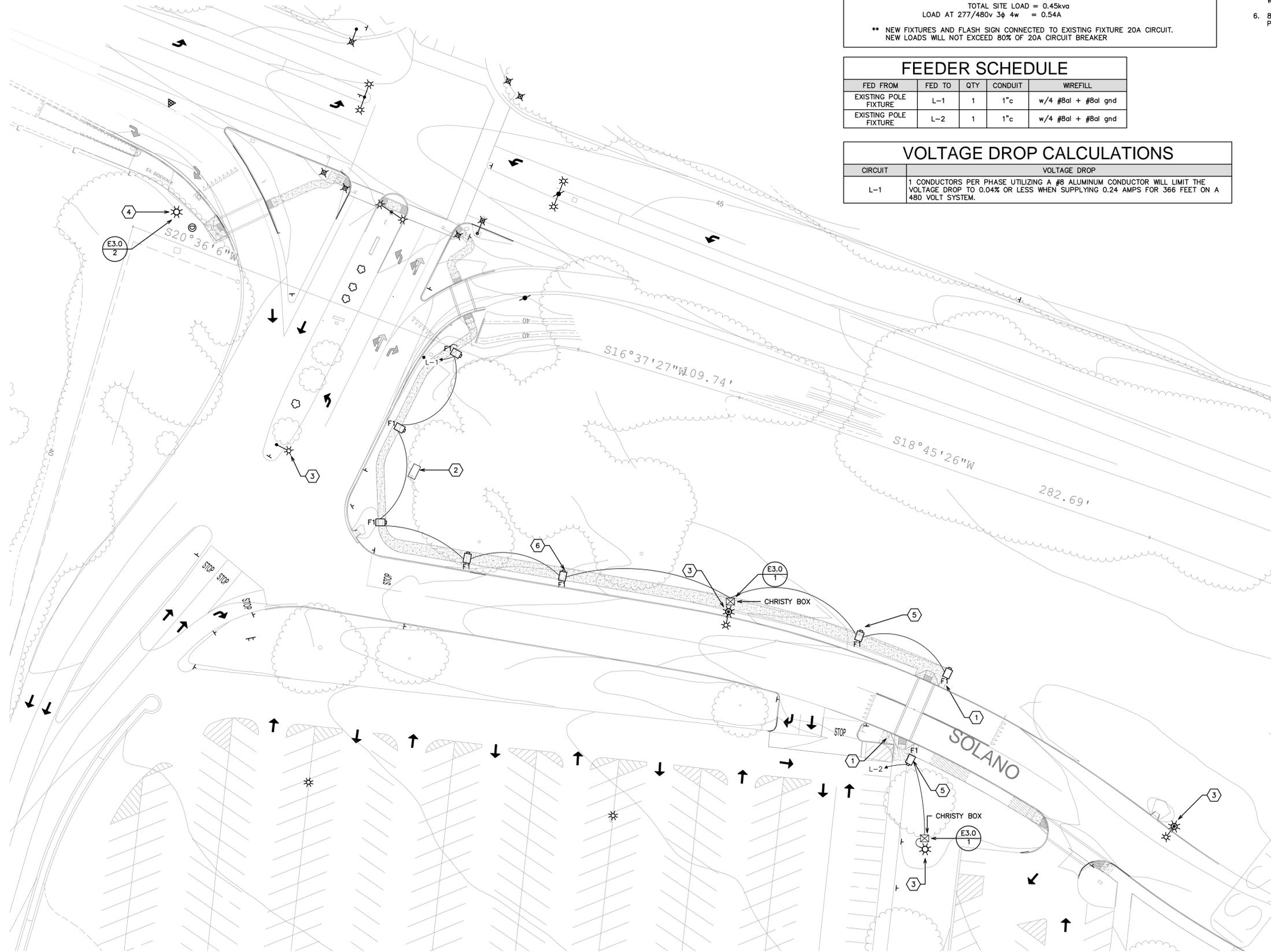
ELECTRICAL GENERAL NOTES

NUMBER:	REVISION:	DATE:
	xxx	xxx
	xxx	xxx

ISSUED FOR:	BID
DATE:	07.05.17
SCALE:	N.A.
DRAWN:	FC

SHEET:
E1.0

ISSUED FOR BID



FIXTURE SCHEDULE				
TAG	MFG	PRODUCT NO.	VOLT AMPS	DESCRIPTION
F1	ASSOCIATED LIGHTING REPS INC.	8258MH-(1)100W ED-17-120v-SILVER	52	POLE MOUNTED DOWNLIGHT

LOAD CALCULATIONS	
SITE LIGHTING	= 0.42kva
FLASH X WALK SIGN	= 0.03kva
TOTAL SITE LOAD	= 0.45kva
LOAD AT 277/480v 3φ 4w	= 0.54A
** NEW FIXTURES AND FLASH SIGN CONNECTED TO EXISTING FIXTURE 20A CIRCUIT. NEW LOADS WILL NOT EXCEED 80% OF 20A CIRCUIT BREAKER	

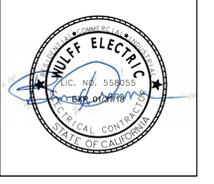
FEEDER SCHEDULE				
FED FROM	FED TO	QTY	CONDUIT	WIREFILL
EXISTING POLE FIXTURE	L-1	1	1" c	w/4 #8al + #8al grd
EXISTING POLE FIXTURE	L-2	1	1" c	w/4 #8al + #8al grd

VOLTAGE DROP CALCULATIONS	
CIRCUIT	VOLTAGE DROP
L-1	1 CONDUCTORS PER PHASE UTILIZING A #8 ALUMINUM CONDUCTOR WILL LIMIT THE VOLTAGE DROP TO 0.04% OR LESS WHEN SUPPLYING 0.24 AMPS FOR 366 FEET ON A 480 VOLT SYSTEM.

- SHEET NOTES:**
- NEW FLASHING CROSSWALK SIGN TS 40, W1-2 SIGN OR APPROVED EQUIVALENT. SEE MANUFACTURERS SPEC SHEET FOR PART NUMBERS TO CREATE SOLAR WIRELESS SYSTEM.
 - EXISTING PG&E VAULT. USA BEFORE TRENCHING/DIGGING
 - EXISTING STREET LIGHT. COBRA HEADS. SEE CITY DETAIL 75, 72
 - NEW CITY STANDARD STREET LIGHT. CONNECT TO NEAREST EXISTING CIRCUIT. CITY LIGHT TO BE PER CITY DETAIL 75A(ALUMINUM STREET LIGHT). FOUNDATION TO COMPLY WITH CITY DETAIL 72 AND NEEDS 4,000 PSI CONCRETE.
 - ALL NEW POLE LOCATIONS BASE WILL BE INSTALLED 24" FROM EDGE OF WALKWAY UNLESS DIRECTED DIFFERENTLY BY THE SCCD. (TYP)
 - 8 ONSITE LIGHTS WILL BE SURPLUS POLES AND FIXTURES TO BE PROVIDED BY DISTRICT

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SITE PLAN

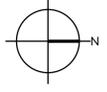
NUMBER:	REVISION:	DATE:
	XXX	XXX
	XXX	XXX

ISSUED FOR:	BID
DATE:	07.11.17
SCALE:	1/32"=1'-0"
DRAWN:	FC

SHEET:
E2.0

SITE PLAN:

SCALE: 1/32"=1'-0"



ISSUED FOR BID



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SITE PLAN
PHOTOMETRICS

NUMBER:	REVISION:	DATE:
	XXX	XXX
	XXX	XXX

ISSUED FOR:	BID
DATE:	07.05.17
SCALE:	1/32"=1'-0"
DRAWN:	FC

SHEET:
E2.1



SITE PLAN PHOTOMETRICS:

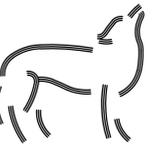
Symbol	Qty	Label	Arrangement	LLF	Description	Arr. Watts
	10	88240	SINGLE	0.900	88 240	89
	4	GE456802	SINGLE	0.900	ERX1 A1A1540	42
	1	GLEON-AE-01-LED-E1-5MQ-7030-7	BACK-BACK	0.900	GLEON-AE-01-LED-E1-5MQ-7030-700	76
	3	GE456802_1	BACK-BACK	0.900	GE DOUBLE	84

Calculation Summary						
Label	CalcType	Units	Avg	Max	Min	Avg/Min
Campus Sidewalk	Fc	Fc	1.42	5.4	0.1	14.20
City Sidewalk	ILLUMINANCE	Fc	0.79	4.8	0.0	N.A.

COLOR	FOOTCANDLE VALVE
BLUE	.125 FC
GREEN	.25 FC
CYAN	.5 FC
RED	5.0 FC NOT TO EXCEED .2FC MINIMUM REQUIREMENTS

SCALE: 1/32"=1'-0"





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FAIRFIELD, CA
94534

DETAILS

NUMBER:	REVISION:	DATE:
	XXX	XXX
	XXX	XXX

ISSUED FOR:	BID
DATE:	07.05.17
SCALE:	AS NOTED
DRAWN:	FC

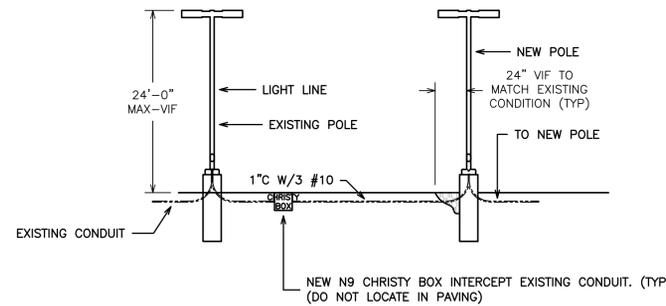
SHEET:
E3.0

SHEET NOTES:

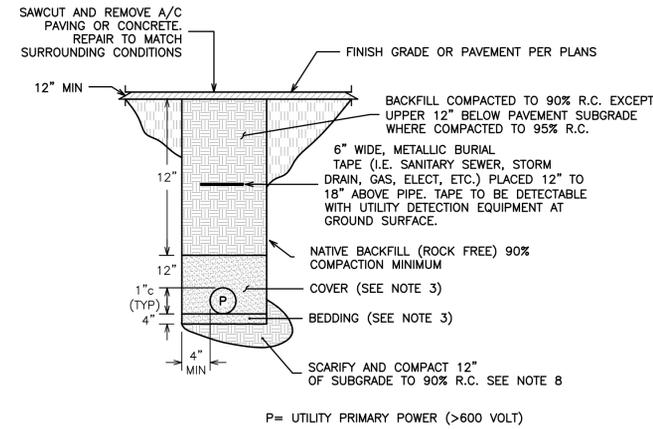
- UTILITY TRENCH CONSTRUCTION SHALL CONFORM TO THE RECOMMENDATIONS OF THE GEOTECHNICAL REPORT.
- EXCAVATE FOR BELLS OR HUBS SO FULL LOAD IS CARRIED BY PIPE BARRELS.
- BEDDING AND COVER: SAND OR FINE GRAVEL WITH LESS THAN 10% FINES.
- BEDDING SHALL BE PLACED IN A MANNER SUCH AS SLICING, SHOVEL-SPADING, OR SHOVEL RODDING TO ENSURE COMPLETE FILLING OF THE "HAUNCH AREAS" BELOW THE PIPE. JETTING IS NOT PERMITTED.
- SUBGRADE TO BE FREE OF PROTRUDING OBJECTS.
- BACKFILL MAY BE NATIVE SOIL THAT MEETS THE CRITERIA FOR FILL AS DESCRIBED IN THE GEOTECHNICAL REPORT.
- WHERE LESS THAN 18" BETWEEN BOTTOM OF PAVING SECTION (I.E. BOTTOM OF A.B.) AND TOP OF PIPE, BACKFILL TO BE CONTROLLED DENSITY FILL (CDF)
- TRENCH SUBGRADE SHALL BE PREPARED IN ACCORDANCE WITH THE GEOTECHNICAL REPORT.
- CITY STREET LIGHT CONNECTION - 2" c sch 80pvc WITH 42" OF COVER

SHEET NOTES:

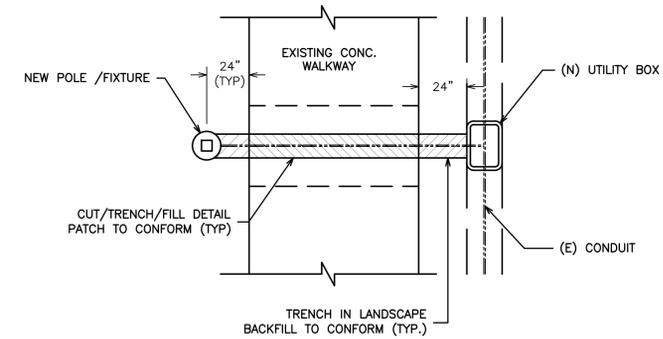
SEE DETAIL 73 FOR WIRE CONNECTIONS INSIDE PULLBOX.



1 NEW POLE CONNECTION TO EXISTING POLE:
SCALE: NOT TO SCALE



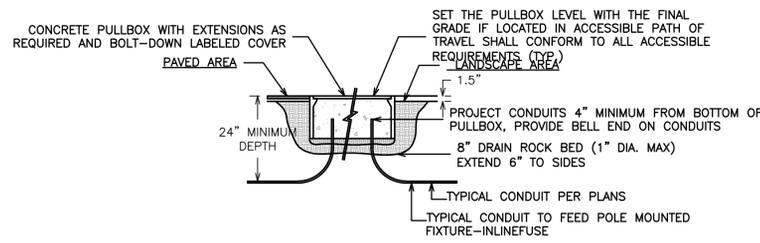
2 UNDERGROUND CONDUIT INSTALLATION:
SCALE: NOT TO SCALE



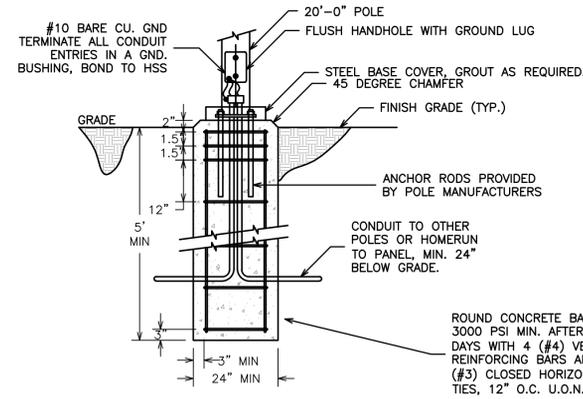
3 UNDERGROUND PULLBOX:
SCALE: NOT TO SCALE

SHEET NOTES:

CONTRACTOR TO AVOID THIS SITUATION IF WATERJET OR BORING IS AN OPTION.



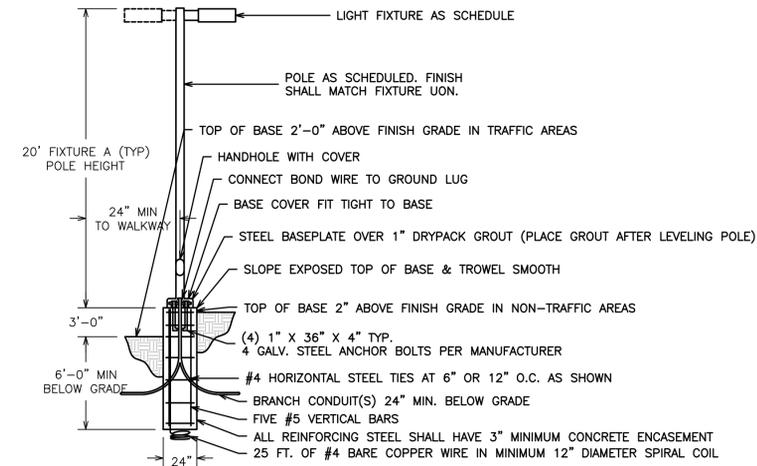
4 TRENCH UNDER WALKWAY:
SCALE: NOT TO SCALE



5 SITE LIGHTING POLE BASE:
SCALE: NOT TO SCALE

SHEET NOTES:

SEE DETAIL 5 FOR ADDITIONAL REQUIREMENTS (TYP.)



6 POLE MOUNTED FIXTURE ON CONCRETE BASE:
SCALE: NOT TO SCALE

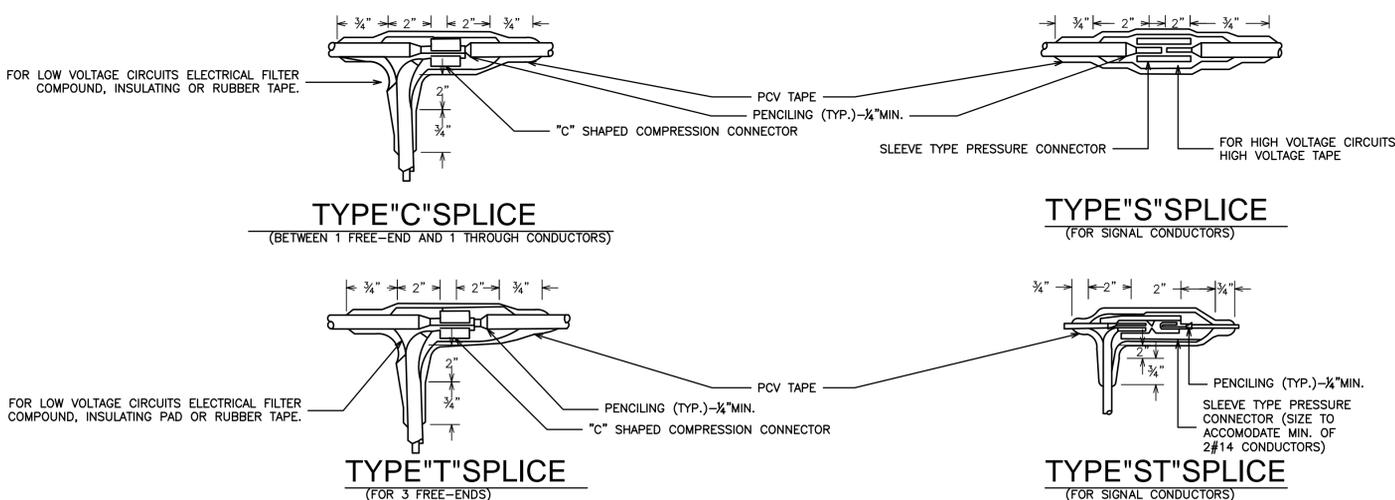
NOTES:

- ALL DIMENSIONS ARE MINIMAL.
- RUBBER TAPES SHALL BE ROLLED AFTER APPLICATION.
- WHEN PVC TAPE IS USED AS FINAL LAYER, PAINT FINISHED SPLICE WITH ELECTRICAL INSULATING COATING.

INSULATING METHODS

- LOW VOLTAGE CIRCUITS (0-600 VOLTS)
- COMPLETELY COVER THE SPLICE AREA WITH AN ELECTRICAL INSULATING COATING AND ALLOW TO DRY.
 - APPLY 2 LAYER OF ELECTRICAL INSULATING PAD WITH MINIMUM THICKNESS OF 1/8" EACH LAYERS OR 2 LAYERS, HALF LAPPED, SYNTHETIC OIL RESISTANT, SELF FUSING RUBBER TAPE.
 - APPLY 3 LAYERS HALF LAPPED PVC TAPE.

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7 SPLICE DETAILS & NOTES
SCALE: NOT TO SCALE

Photos of surplus lights, 7-6-17





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 Web: www.xwalk.com



TS40
Flashing LED Edge Lit Signs
MUTCD Compliant

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

	12 Volt 12 Volt 22000mAh SLA	6 Volt 2 - 6 Volt 9000mAh SLA (18 Ah Total)
Dimensions	7.14" x 3.03" x 6.59"	5.95" x 1.34" x 3.70"
Weight	12.74 lb.	3.09 lb.
Terminal Connector	Nut/Bolt	T2 - Spade
Operating Temperature	-40°F to +156°F	-40°F to +156°F
Warranty	1 Year	1 Year

- 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

- a. 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.

	15 Watt	20 Watt	30 Watt
Max Power	15W	20W	30W
Operating Voltage	8.0V	17.2V	17.4V
Operating Current	1.88A	1.16A	1.73A
Max Voltage	10.8V	21.6V	21.6V
Operating Temperature	-40°C to +85°C	-40°C to +85°C	-40°C to +85°C
Dimensions	16.75" x 14.00" x 1.125"	22.75" x 16.75" x 1.125"	26.5" x 16.75" x 1.125"
Type	Polycrystalline	Polycrystalline	Polycrystalline

- 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)

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

5. Circuitry / LED Lighting Control Unit

- a. Circuit shall have a minimum of 4 output LED light circuits for use.
- b. Circuit shall control flash rates at 50 to 60 times per minute.
- c. Circuit shall flash 500 milliseconds / 150 milliseconds per flash.
- d. Available dusk-to-dawn flash mode.
- e. Micro-controller technology.
- f. Keyed "ON/OFF" activation for tamper/vandalism protection.
- g. Operation of circuit temperatures -40°C to +80°C.
- h. Circuit enclosed in weatherproof casing.
- i. Low voltage protection program (protecting from total discharge of battery).
- j. 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

Visit our web site: www.xwalk.com



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 Fax: 916.394.2809
 Email: sales@xwalk.com
 Web: www.xwalk.com

Wireless Pedestrian Push-Button

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 Push-Button Station



BullDog III Push-Button

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° 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.



Wireless Push-Button Transmitter

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: RFD8 - 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° 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

Part #	Description	Body Color	Power Source	Options
AC-BDL3W	BullDog III Push-Button with Stainless Steel Button*	- B: Black - Y: Yellow	- S: Solar - AC: AC	- BR: Braille on Sign Plate of Station
AC-TS40BDSPW	BullDog III Push-Button with Stainless Steel Button (for TS40 signs)*	Contact TSC for other colors.	- B: Battery	
AC-BDL3FSW	BullDog III Push-Button Station with Stainless Steel Button**			
AC-TS40BDSPFSW	BullDog III Push-Button Station with Stainless Steel Button (for TS40 signs)**			
AC-BDL3ALFSW	BullDog III Push-Button Station with Left Arrow Button**			
AC-BDL3ARFSW	BullDog III Push-Button Station with Right Arrow Button**			

* Frame and sign not included. ** Frame and sign included.

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.

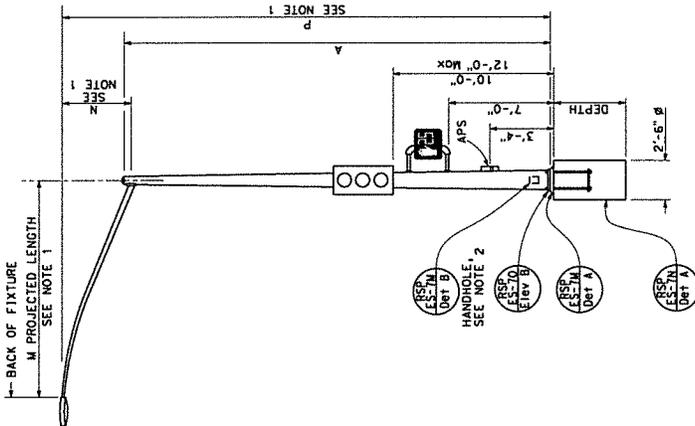
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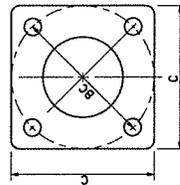
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS

REGISTERED CIVIL ENGINEER
 July 15, 2016
 PLANS APPROVAL DATE
 THE ENGINEER SHALL BE RESPONSIBLE FOR THE ACCURACY OF THE INFORMATION CONTAINED HEREIN AND SHALL BE RESPONSIBLE FOR THE PROTECTION OF HIS LICENSE AND REPUTATION.

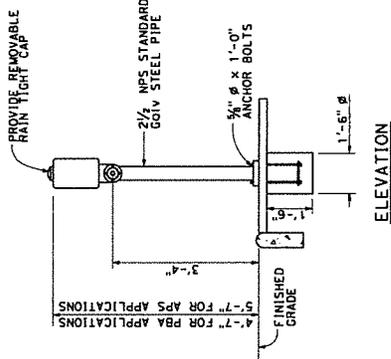
- NOTES:**
1. For additional notes, details and data for Type 15TS and Type 21TS Standards, see Revised Standard Plan RSP ES-6A.
 2. Handhole shall be located on the downstream side of traffic.



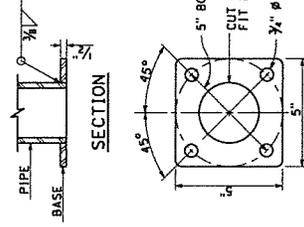
TYPE 15TS AND 21TS STANDARD
ELEVATION A
(See Note 1)



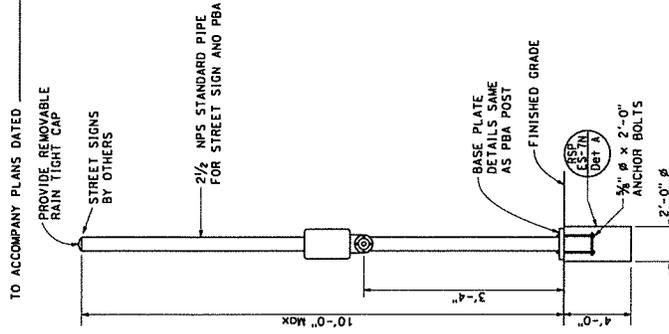
BASE PLATE
TYPE 15TS AND 21TS
DETAIL A



PUSH BUTTON ASSEMBLY POST
DETAIL B



BASE PLATE
PBA POST



COMBINED STREET SIGN
PUSH BUTTON ASSEMBLY POST
DETAIL C

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

ELECTRICAL SYSTEMS
(SIGNAL AND LIGHTING STANDARD, TYPE TS,
AND PUSH BUTTON ASSEMBLY POST)

NO SCALE

RSP ES-7A DATED JULY 15, 2015 SUPERSEDES STANDARD PLAN ES-7A
DATED OCTOBER 30, 2015 - PAGE 456 OF THE STANDARD PLANS BOOK DATED 2015.

POLE TYPE	POLE DATA		BASE PLATE DATA			CIDH DEPTH		
	HEIGHT	MIN OD	WALL THICKNESS	BC = BOLT CIRCLE	C		ANCHOR BOLT SIZE	
15TS	30'-0"	8"	3/8"	1'-0"	1'-1/2"	2"	1 1/2" x 42"	7'-6"
21TS	35'-0"	9 3/4"	0.11793"	1'-2"	1'-3"	2"	1 1/2" x 42"	8'-6"

REVISED STANDARD PLAN RSP ES-7A



Southwest
End of Lot 1 is
Available for Staging



BUILDING DIRECTORY			
BLDG. #	FUNCTION	BLDG. #	FUNCTION
100	LIBRARY	1300	FINE ART
200	CHILDCARE	1400	CAFE / BOOK STORE / STUDENT UNION
200A	CHILDCARE PLAY ROOM	1500	MATH ENGINEERING
300	SCIENCE	1600	VOCATIONAL ARTS
400	STUDENT SERVICES	1700	PHYSICAL ED. / GYM ADAPTIVE P.E.
500	BUSINESS	1800A	VOCATIONAL TECH. / SWING SPACE
600	ADMINISTRATION	1800B	VOCATIONAL SHOPS
700	HUMANITIES	1900	MAINTENANCE / OPERATIONS WAREHOUSE
800	MULTI-DISCIPLINE	2000	CENTRAL PLANT
900	FACULTY OFFICE BUILDING	2100	POOL MECHANICAL
1000	HORTICULTURE	2200	SWIMMING POOL
1001	HORTICULTURE GREEN HOUSE	2300	MAINTENANCE STORAGE
1100	PORTABLES	2400	ENTRY KIOSK
1200	THEATER	2500	STADIUM

S O L A N O C O M M U N I T Y C O L L E G E
 SOLANO COMMUNITY COLLEGE DISTRICT
 FACILITIES MASTER PLAN

LEGEND

- NEW CONSTRUCTION AND/ OR RENOVATION
- NEW AND/ OR RENOVATED ATHLETIC FACILITIES
- EXISTING CONSTRUCTION