

COUNTY OF SOLANO
STATE OF CALIFORNIA



TIMM ROAD IMPROVEMENT PROJECT

**NOTICE TO BIDDERS, BID FORM, SPECIAL
PROVISIONS, AGREEMENT, AND RELATED CONTRACT
DOCUMENTS**

Solano County Department of Resource Management
Public Works Engineering
675 Texas Street, Suite 5500
Fairfield, CA 94533-6341

Bid Due Date: April 22, 2020

FOR CLERK OF THE BOARD

Planholder Lists and Bidder Results

for

Solano County Public Works Projects

can be found on our website at

<http://www.solanormplanroom.com/>

COUNTY OF SOLANO
STATE OF CALIFORNIA

NOTICE TO BIDDERS, BID FORM,
SPECIAL PROVISIONS, CONTRACT AND
OTHER RELATED CONTRACT DOCUMENTS
FOR THE CONSTRUCTION OF

TIMM ROAD IMPROVEMENT PROJECT

for use in connection with Caltrans Standard Specifications 2018,
Revised Caltrans Standard Specifications 2018 Dated 10/18/2019,
Caltrans Standard Plans 2018,
and Labor Surcharge and Equipment Rental Rates.

BOARD OF SUPERVISORS
ERIN HANNIGAN– CHAIRWOMAN
MONICA BROWN
JAMES P. SPERING
JOHN VASQUEZ
SKIP THOMSON

SOLANO COUNTY DEPARTMENT OF RESOURCE MANAGEMENT
DIRECTOR OF RESOURCE MANAGEMENT: BILL EMLEN
675 Texas Street, Suite 5500
Fairfield, California 94533-6341
Contact Person: Craig Pyle
Phone: 707-784- 3122

THIS PAGE INTENTIONALLY LEFT BLANK

TIMM ROAD IMPROVEMENT PROJECT

SIGNATURE AND SEAL SHEET

The Special Provisions and plans contained herein have been prepared by or under the direction of the following Registered Person.




CRAIG PYLE, PE
SOLANO COUNTY DEPT. OF RESOURCE MANAGEMENT
SENIOR CIVIL ENGINEER

THIS PAGE INTENTIONALLY LEFT BLANK

TABLE OF CONTENTS

TABLE OF CONTENTS.....	iii
IMPORTANT SPECIAL NOTICE	5
NOTICE TO BIDDERS	7
BID TO COUNTY OF SOLANO, STATE OF CALIFORNIA	9
BID SCHEDULE.....	11
AGREEMENT	33
DIVISION I GENERAL PROVISIONS	47
1 GENERAL.....	47
2 BIDDING.....	48
3 CONTRACT AWARD AND EXECUTION	50
5 CONTROL OF WORK	51
6 CONTROL OF MATERIALS.....	52
7 LEGAL RELATIONS AND RESPONSIBILITY TO THE PUBLIC	61
8 PROSECUTION AND PROGRESS	64
9 PAYMENT	65
DIVISION II GENERAL CONSTRUCTION.....	67
10 CONSTRUCTION DETAILS	67
12 TEMPORARY TRAFFIC CONTROL.....	68
13 WATER POLLUTION CONTROL	71
14 ENVIRONMENTAL STEWARDSHIP	72
15 EXISTING FACILITIES	75
16 TEMPORARY FACILITIES.....	76
16-2 MISCELLANEOUS TEMPORARY FACILITIES	76
17 GENERAL.....	76
19 EARTHWORK.....	77
20 LANDSCAPE.....	82
21 EROSION CONTROL	83
22 FINISHING ROADWAY.....	85
26 AGGREGATE BASES.....	85
DIVISION V SURFACINGS AND PAVEMENTS	85
39 HOT MIX ASPHALT.....	85
47 EARTH RETAINING SYSTEMS	90
DIVISION VI STRUCTURES	91
51 CONCRETE STRUCTURES	91
52 REINFORCEMENT	93
DIVISION VII DRAINAGE FACILITIES	93
64 PLASTIC PIPE	93
66 CORRUGATED METAL PIPE	94
71 EXISTING DRAINAGE FACILITIES	94
DIVISION VIII MISCELLANEOUS CONSTRUCTION.....	95
72 SLOPE PROTECTION	95
80 FENCES.....	97
DIVISION IX TRAFFIC CONTROL DEVICES	98
81 MISCELLANEOUS TRAFFIC CONTROL DEVICES	98
82 SIGNS AND MARKERS	99
83 RAILINGS AND BARRIERS.....	100
84 MARKINGS	101
96 GEOSYNTHETICS	102

SITE LOCATION.....	104
TRAFFIC CONTROL SYSTEM FOR LANE CLOSURE ON TWO LANE LANE CONVENTIONAL HIGHWAYS	105

IMPORTANT SPECIAL NOTICE

Contractors and subcontractors need to be registered with the Department of Industrial Relations in order to 1) bid or be listed on a bid for a public works project or 2) work on a public works project.

Any contractor or subcontractor who bids on or performs work that requires the payment of prevailing wages under state law must be registered with DIR. This includes not only work performed by the building and construction trades, but also other types of work, including trucking, surveying, and testing, if that work is subject to prevailing wage requirements.

The cost is **\$300** for a contractor or subcontractor to apply and register through DIR. If a contractor or subcontractor has more than one entity or business that bids on or performs public works, then each of those entities must be registered with DIR.

To qualify for registration, the contractor or subcontractor must (1) have workers' compensation coverage for their workers, (2) be licensed by CSLB if applicable to their trade, (3) not owe back wages or related penalties under a judgment or order, (4) not be debarred from performing public works by the state or federal government, and (5) not have previously bid or worked in violation of the registration requirement. (*Please see Labor Code section 1725.5 for complete text of requirements and exceptions.)

Upon registration, the contractor or subcontractor's name and registration will be added automatically to a searchable data base on DIR's website.

<https://efiling.dir.ca.gov/PWCR/Search>

Other information regarding these requirements can be found at the following website:

<http://www.dir.ca.gov/Public-Works/PublicWorksContractorsAndSubcontractors.html>

THIS PAGE INTENTIONALLY LEFT BLANK

NOTICE TO BIDDERS

Bids open: April 22, 2020

Date: March 25, 2020

The COUNTY OF SOLANO, STATE OF CALIFORNIA will receive bids for the furnishing of all labor, materials, transportation, and services necessary for the construction and completion of:

TIMM ROAD IMPROVEMENT PROJECT

General work description: 1) widen the paved road from 24 feet to 32 feet, 2) lower the profile of two hills to improve sight distance and construct a 32 feet wide roadway, 3) replace one double box concrete culvert with a double box pre-cast concrete culvert with headwalls, wingwalls and guardrails, 4) pave roadway with asphalt concrete from Shawn Lane to Allendale Road, and 5) scarify the existing gravel roadway surface north of Allendale Road, and regrade roadway with granular materials. Bids must be on a unit price basis.

Work must be completed within **EIGHTY-FIVE** working days.

The estimated cost of the project is **\$1,835,000.00**.

There is no DBE requirement for this project.

The department will receive bids until 2:00 p.m. on the bid open date at the office of: **Solano County Department of Resource Management, 675 Texas Street, Suite 5500, Fairfield, California**. Bids received after this time will not be accepted.

The department will open and publicly read the bids at the above location immediately after the specified closing time.

Attention is directed to the Contract Documents for complete details and bid requirements. Copies of the Contract Documents may be obtained by logging on <http://www.solanormplanroom.com/> or by calling BPXpress Reprographics at (707)-745-3593. These may be obtained at a set price of \$90.00, plus shipping and handling, and is non-refundable. All bidders must purchase a complete bid set from BPXpress Reprographics in order to be considered responsive and to receive addenda notifications. Submit your bid with bidder's security equal to at least 10 % of the bid.

The successful bidder shall furnish a payment bond and a performance bond.

The County reserves the right to reject any or all bids.

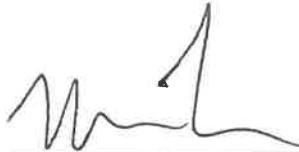
Contractor shall possess a valid business license.

Prevailing wages are required on this contract. The Director of the California Department of Industrial Relations determines the general prevailing wage rates. Obtain the wage rates at the DIR website: <http://www.dir.ca.gov> or from the Department's Labor Compliance Office of the district in which the work is located.

For further information, please see our web page:

http://www.solanocounty.com/depts/rm/public_works/engineering_surveying_division/projects/request_for_bids.asp

Sincerely,



MATT TUGGLE
ENGINEERING MANAGER

BID TO COUNTY OF SOLANO, STATE OF CALIFORNIA

NAME OF BIDDER Granite Rock Company

BUSINESS ADDRESS 5225 Hellyer Avenue, Suite 220

CITY, STATE, ZIP San Jose, CA 95138

TELEPHONE AND AREA CODE (408) 574-1400

The work for which this bid is submitted is for construction in accordance with the Special Provisions (including the payment of not less than the State General Prevailing Wage Rates or Federal Minimum Wage Rates), the project plans described below, including any addenda, the attached contract, and the Labor Surcharge and Equipment Rental Rates in effect on the date the work is accomplished.

The project plans for the work to be done were approved and are entitled:

TIMM ROAD IMPROVEMENT PROJECT

Bids are to be submitted for the entire work. The amount of the bid for comparison purposes will be the total of all items.

The bidder shall set forth for each unit basis item of work a unit price and a total for the item, and for each lump sum item a total for the item, all in clearly legible figures in the respective spaces provided for that purpose. In the case of unit basis items, the amount set forth under the "Item Total" column shall be the product of the unit price bid and the estimated quantity for the item.

In case of discrepancy between the unit price and the total set forth for a unit basis item, the unit price shall prevail, except as provided in (a) or (b) as follows:

- (a) If the amount set forth as a unit price is unreadable or otherwise unclear, or is omitted, or is the same as the entry in the item total column, then the amount set forth in the item total column for the item shall prevail and shall be divided by the estimated quantity for the item and the price thus obtained shall be the unit price;
- (b) (Decimal Errors) If the product of the entered unit price and the estimated quantity is exactly off by a factor of ten, one hundred, etc., or one-tenth, or one-hundredth, etc. from the entered total, the discrepancy will be resolved by using the entered unit price or item total, whichever most closely approximates percentage wise the unit price or item total in the Department's Final Estimate of cost.

If this bid is accepted and the undersigned fails to enter into the contract and furnish the two (2) bonds in the sums required by the State Contract Act, with surety satisfactory to the County, within 8 days, not including Saturdays, Sundays and legal holidays, after the bidder has received notice from the Engineer that the contract has been awarded, the County may, at its option, determine

that the bidder has abandoned the contract, and thereupon this bid and its acceptance shall be null and void and the forfeiture of such security accompanying this bid shall operate and the same shall be the property of the County of Solano.

WARNING: Any bidder or contractor not licensed by the time of award of contract shall be subject to all legal penalties imposed by law, including, but not limited to, any appropriate disciplinary action by the Contractors' State License Board.

The undersigned, as bidder, declares that the only persons or parties interested in this bid as principals are those named in it; that this bid is made without collusion with any other person, firm, or corporation; that he has carefully examined the location of the proposed work, the attached proposed form of contract, and the plans referred to; and he proposes, and agrees if this bid is accepted, that he will contract with the County of Solano, in the form of the copy of the attached contract, to provide all necessary machinery, tools, apparatus, and other means of construction, and to do all the work and furnish all the materials specified in the contract, in the prescribed manner and time, and according to the requirements of the Engineer as set forth, and that he will take in full payment the following item prices:



ATTACHMENT A
TIMM ROAD IMPROVEMENT PROJECT
REVISED BID SCHEDULE

Item No.	Description	Unit	Quantity	\$/Unit	Total
1	MOBILIZATION	LS	1	36000 -	36000 -
2	FLAGGING STRAIGHT TIME(S) *	HRS	1,440	\$ 53.37	\$ 76,852.80
3	FLAGGING OVERTIME * (S)	HRS	360	\$ 63.00	\$ 22,680.00
4	TRAFFIC CONTROL SYSTEM FOR ROAD CLOSURE	LS	1	2672 -	2672 -
5	TRAFFIC CONTROL SYSTEM FOR LANE CLOSURE	LS	1	18686 -	18686 -
6	CONSTRUCTION AREA SIGNS	LS	1	4300 -	4300 -
7	TYPE III BARRICADES	EA	11	70 -	770 -
8	BARRIER RAIL (TYPE K)	LF	120	108 -	12960 -
9	SWPPP	LS	1	2500 -	2500 -
10	CONCRETE WASHOUT	EA	2	1000 -	2000 -
11	SILT FENCE	LF	100	24 -	2400 -
12	FIBER ROLLS	LF	200	1250 -	2500 -
13	REMOVE AND DISPOSE CONCRETE CULVERT	LS	1	11600 -	11600 -
14	POTHOLING (VACTOR EXTRACTION)	EA	14	675 -	9450 -
15	RECONSTRUCT DRIVEWAY	SF	13,872	785 -	108815.20
16	RAISE IRON	EA	3	21000 -	7800 -
17	TEMPORARY FENCE (T POST W/WIRE MESH)	LF	250	31 -	7750 -
18	TREE REMOVAL	EA	3	1950 -	5850 -
19	CLEARING AND GRUBBING	LS	1	39000 -	39000 -
20	EXPORT (F)	CY	2,300	12 -	27600 -
21	ROADWAY EXCAVATION (F)	CY	15,622	8 -	124976 -
22	STRUCTURAL EXCAVATION (BOX CULVERT) (F)	CY	151	123 -	18573 -
23	CHANNEL EXCAVATION (BOX CULVERT) (F)	CY	15	128 -	1920 -
24	STRUCTURAL BACKFILL (BOX CULVERT) (F)	CY	72	430 -	30960 -
25	PLANT TREE ESTABLISHMENT	LS	1	7300 -	7300 -
26	EROSION CONTROL (JUTE NETTING ECTC TYPE 3B)	SY	444	435 -	193140
27	EROSION CONTROL (HYDROMULCH AND HYDROSEED)	SY	2,236	145 -	324220
28	FINISH ROADWAY	LS	1	17000 -	17000 -
29	CLASS II AGGREGATE BASE	CY	4,073	57 -	232161 -
30	HOT MIX ASPHALT (1/2" TYPE A)	TON	1,716	92 -	157872 -
31	HOT MIX ASPHALT (3/4" TYPE A)	TON	1,537	88 -	135256 -
32	HMA EDGE WIDENING (3/4" TYPE A)	SF	21,539	425 -	91540.75
33	HMA LEVELING COURSE (1/2" TYPE A)	TON	127	75 -	9525 -
34	KEYSTONE RETAINING WALL	SF	1,023	88 -	90024 -
35	ULTRABLOCK RETAINING WALL (FULL OR HALF)	EA	55	1150 -	63250 -

36	ULTRABLOCK RETAINING WALL (FULL FLAT OR FULL FLAT CAP)	EA	40	525 -	2000 -
37	STRUCTURE CONCRETE (HEADWALLS & WINGWALLS)	CY	76	1325 -	106700 -
38	FURNISH PRECAST CONCRETE BOX CULVERT (F)	CY	38	1900 -	72300 -
39	INSTALL PRECAST CONCRETE BOX CULVERT	LF	80	130 -	10400 -
40	BAR REINFORCING STEEL (F) (HEADWALL, WINGWALL , RAT SLAB)	LBS	7,880	227	17887.60
41	18" DIA. HDPE PIPE (TYPE S)	LF	45	20 -	900 -
42	15" DIA. CORRUGATED METAL PIPE (CMP)	LF	320	115 -	36800 -
43	18" DIA. CORRUGATED METAL PIPE (CMP)	LF	50	115 -	5750 -
44	24" DIA. CORRUGATED METAL PIPE (CMP)	LF	50	195 -	9750 -
45	ABANDON CULVERT	EA	1	550 -	550 -
46	ROCK SLOPE PROTECTION (CLASS I NOMINAL WT 20#)	SF	966	23.25	224,51.50
47	ROCK SLOPE PROTECTION (CLASS III NOMINAL WT 150#)	SF	288	26.50	7632 -
48	RELOCATE MAILBOX	EA	19	250 -	4750 -
49	CHAIN LINK FENCE	LF	436	46 -	20056 -
50	RANCHER GATE	EA	1	0 -	0 -
51	SLIDING CHAIN LINK GATE	EA	1	3036 -	3036 -
52	GUARD RAILING DELINEATOR	EA	4	17 -	68 -
53	METAL POST MARKER (CULVERT MARKER)	EA	14	40 -	560 -
54	ROADSIDE SIGN (S)	EA	13	300 -	3900 -
55	REMOVE AND REPLACE ROADSIDE SIGN (S)	EA	9	200 -	1800 -
56	REMOVE AND SALVAGE ROADSIDE SIGN	EA	5	100 -	500 -
57	RELOCATE ROADSIDE SIGN (S)	EA	2	200 -	400 -
58	STEEL POST (W6X9) W/BASE PLATE AND ANCHORS	EA	4	900 -	3600 -
59	MIDWEST GUARDRAIL SYSTEMS (MGS) (STEEL POSTS)	LF	50	58 -	2900 -
60	TERMINAL SYSTEM (TYPE MSKT-SP-MGS-TL3)	EA	4	3400 -	13600 -
61	REMOVE AND SALVAGE EXISTING GUARDRAIL	LF	250	18 -	4500 -
62	REMOVAL AND DISPOSAL OF TREATED WOOD WASTE	TON	1.09	500 -	545 -
63	THERMOPLASTIC TRAFFIC STRIPE - DETAIL 6 (4 INCH - YELLOW) (S)	LF	505	0.45	227.25
64	THERMOPLASTIC TRAFFIC STRIPE - DETAIL 19 (4 INCH - YELLOW) (S)	LF	2,044	1.20	2452.80
65	THERMOPLASTIC TRAFFIC STRIPE - DETAIL 22 (4 INCH - YELLOW) (S)	LF	2,009	1.45	2913.05
66	THERMOPLASTIC TRAFFIC STRIPE - DETAIL 27B (4 INCH - WHITE) (S)	LF	340	0.65	221 -
67	THERMOPLASTIC TRAFFIC STRIPE - DETAIL 39 (6 INCH - WHITE) (S)	LF	7,953	0.80	6362.40
68	THERMOPLASTIC TRAFFIC STRIPE - DETAIL 39A (6 INCH - WHITE) (S)	LF	800	0.80	640 -
69	THERMOPLASTIC MARKINGS (S)	SF	396	4 -	1584 -
70	MINOR CONCRETE (6 INCH RAT SLAB) (F)	CY	12	1250 -	15000 -
70	MINOR CONCRETE (6 INCH CONC. DRIVEWAY)	SF	655	0 -	0 -

74	GEOSYNTHETICS PAVEMENT INTERLAYER (PAVING FABRIC)	SY	15,824	0	0
71	MINOR CONCRETE (6 INCH CONC. DRIVEWAY)	SF	1,555	15-	23325-
72	GEOSYNTHETICS PAVEMENT INTERLAYER (PAVING FABRIC)	SY	15,824	110	17406.40
73	IRRIGATION SYSTEM	LS	1	13000-	13000-
74	TRANSPLANT BUSHES (PHOTINIA FRASERI)	EA	13	275-	3575-
75	TRANSPLANT TREE (>6")	EA	4	7200-	28800-
76	TRANSPLANT TREE (<6")	EA	2	7500-	15000-
77	BARBED WIRE FENCE	LF	265	2750	7287.50
				GRAND TOTAL	1891235.88

*NOTE: Flagging shall be paid in accordance with "TEMPORARY TRAFFIC CONTROL" in these Special Provisions. The Contractor will be paid at the listed unit price for these items. This rate includes all markups. Listed Quantity is for bid purposes only. Payment will be based upon actual hours used.

** Section 9-1.06 "CHANGED QUANTITY PAYMENT ADJUSTMENTS". Unit price adjustment resulting from a change of more than 25% does not apply to these items.





SOLANO COUNTY BIDDER'S LIST OF SUBCONTRACTORS
TO BE COMPLETED AND SUBMITTED WITHIN 48 HOURS AFTER BID OPENING BY TOP
THREE APPARENT LOW BIDDERS
(OPTIONAL – CAN BE COMPLETED AND SUBMITTED WITH BID)

Subcontractor Name and Location	Line Item & Description	Subcontract Amount	Percentage of Bid Item Sub-contracted	Contractor License Number	DBE (Y/N)	DBE Cert Number
				DIR Reg Number		
Name: Golden Bay Fence City, State: Stockton, CA	17 Temp Fence 49 Chain Link Fence 51 Sliding CL Gate 77 Barbed Wire Fence	\$7,750.00 20,056.00 3,036.00 7,287.50	100 100 100 100	664905 100 100 1000000720	Y	9140
Name: CMC Traffic Control City, State: San Francisco, CA	4 Traffic Control Sys for Road Clos 5 Traffic Control Sys for Lane Clos	2,672.00 16,536.00	100 89	792059 1000006503	Y	33473
Name: Midstate Barrier Inc. City, State: Stockton, CA	52 GR Delineator 58 - 62 MBGR Remove/Install New	68.00 25,145.00	100 100	529621	N	
				1000000538		
Name: Pacific Northwest Oil City, State: Stockton, CA	72 Geosynthetic Pvmt Interlayer	17,406.40	100	705296	N	
				1000377635		
Name: Canniblin Steel City, State: Rocklin, CA	40 Bar Reinforcing Steel	17,887.60	100	218839	N	
				1000003852		
Name: Chrisp Co. City, State: Fremont, CA	1 Mobilization 5 Traffic Control 63 - 69 Thermo Striping & Markings	2,500.00 2,150.00 14,400.95	5 11 100	374600 100 1000000306	N	



SOLANO COUNTY BIDDER'S LIST OF SUBCONTRACTORS
TO BE COMPLETED AND SUBMITTED WITHIN 48 HOURS AFTER BID OPENING BY TOP
THREE APPARENT LOW BIDDERS
(OPTIONAL – CAN BE COMPLETED AND SUBMITTED WITH BID)

Subcontractor Name and Location	Line Item & Description	Subcontract Amount	Percentage of Bid Item Sub-contracted	Contractor License Number	DBE (Y/N)	DBE Cert Number
Name:				DIR Reg Number		
Name: Retaining Walls Co. City, State: Tracy, CA	34 Keystone Retaining Wall	53,445.40	60	A825441	N	
				1000010319		
Name: Marina Landscape Inc. City, State: Lathrop, CA	25 Plant Establishment 26 - 27 Erosion Control 73 - 76 Irrigation and Planting	7,300.00 5,173.60 60,375.00	100 100 100	492862	N	
				1000000079		
Name: Farwest Safety, Inc. City, State: Lodi, CA	6 CAS 7 Type III Barricades 48 Relocate Mailbox 53 - 57 Metal Post & Roadside Signs	4,300.00 770.00 4,750.00 7,160.00	100 100 100 100	523187	N	
Name: _____ City, State: _____						
Name: _____ City, State: _____						
Name: _____ City, State: _____						

SUBCONTRACTOR LIST FORM

STATE OF CALIFORNIA • DEPARTMENT OF TRANSPORTATION
SUBCONTRACTOR LIST
 DES-OE-0102.2C (REV.03/2015)

Contract No. n/a

Lock Data on Form

Bidding Firm: Granite Rock Company

Business Name and Location	CA State Contractor License Number	Public Works Contractor Registration Number	Bid Items Numbers	Percentage of Bid Item Subcontracted (Whole numbers)	Description of Portion of Work
Golden Bay Fence Stockton, CA	44905	1000000720	17, 49, 51, 77	100%	Fencing and Gates
Mid State Barrier Stockton, CA	529261	1000000538	52, 58 - 62	100%	Metal Beam Guard rail
Pacific Northwest oil Stockton CA	705296	1000377635	72,	100%	Geo synthetic Pavement Pavement Fabric
Camblin Steel / Rocklin, CA	218839	1000003852	40	100%	Rebar
Christsp Company Fremont, CA	374600	1000000306	1, 5, 103-69	270 50% 11% 100%	Striping of markings
Retaining Walls Com Tracy, CA	20119 825441	1000010319	34	60%	Keystone wall
CMC traffic control specialists San Francisco, CA	792059	1000006503	4, 5	100% 89%	Traffic Control
Farwest Safety Inc. Modesto, CA	523187	1000001371	6, 7, 48, 52-57	100%	Construction area signs & roadside signs, mail boxes
Marina Landscape Lathrop, CA	492862	100000079	25, 73-76, 26, 27	100%	Landscape & Erosion Control

ADA Notice

For individuals with sensory disabilities, this document is available in alternate formats. For information, call (916) 445-1233, TTY 711, or write to Records and Forms Management, 1120 N Street, MS-89, Sacramento, CA 95814.



SUBCONTRACTOR LIST FORM

STATE OF CALIFORNIA • DEPARTMENT OF TRANSPORTATION
SUBCONTRACTOR LIST
DES-OE-0102.2C (REV.03/2015)

Contract No. n/a

Lock Data on Form

Bidding Firm: **Granite Rock Company**

ADA Notice

For individuals with sensory disabilities, this document is available in alternate formats. For information, call (916) 445-1233, TTY 711, or write to Records and Forms Management, 1120 N Street, MS-89, Sacramento, CA 95814.





**EQUAL EMPLOYMENT OPPORTUNITY CERTIFICATION
THE BIDDER'S EXECUTION ON THE SIGNATURE PORTION OF THIS
BID SHALL ALSO CONSTITUTE AN ENDORSEMENT AND EXECUTION
OF THOSE CERTIFICATIONS WHICH ARE A PART OF THIS BID
STATEMENT RE: EXECUTIVE ORDERS 10925, 11114, AND 11246**

The bidder , proposed subcontractor _____, certifies that he has , has not _____, participated in a previous contract or subcontract subject to the equal opportunity clauses, as required by Executive Orders 10925, 11114, or 11246, and that, where required, has filed with the Joint Reporting Committee, the Director of the Office of Federal Contract Compliance, a Federal Government contracting or administering agency, or the former President's Committee on Equal Employment Opportunity, all reports due under the applicable filing requirements.

Note: The above certification is required by the Equal Employment Opportunity Regulations of the Secretary of Labor (41 CFR 60-1.7(b)(1), and must be submitted by bidders and proposed subcontractors only in connection with contracts and subcontracts which are subject to the equal opportunity clause. Contracts and subcontracts which are exempt from the equal opportunity clause are set forth in 41 CFR 60-1.5. (Generally, only contracts or subcontracts of \$10,000 or under are exempt.)

Currently, Standard Form 100 (EEO-1) is the only report required by the Executive Orders or their implementing regulations.

Proposed prime contractors and subcontractors who have participated in a previous contract or subcontract subject to the Executive Orders and have not filed the required reports should note that 41 CFR 60-1.7 (b)(1) prevents the award of contracts and subcontracts unless such contractor submits a report covering the delinquent period or such other period specified by the Federal Highway Administration or by the Director, Office of Federal Contract Compliance, U.S. Department of Labor.

SMALL BUSINESS STATUS

Are you certified as a "Small Business" by the Office of Small Business of the Department of General Services of the State of California?

Please check one of the following: _____ yes, no, _____ unsure.

(Note: This small business questionnaire is included for statistical reporting only, and your answer neither affects your bid on this contract, nor will it be cause for penalty.)

PUBLIC CONTRACT CODE SECTION 10285.1 STATEMENT

In accordance with Public Contract Code section 10285.1 (Chapter 376, Stats. 1985), the bidder declares under penalty of perjury that the bidder has _____, has not , been convicted within the preceding three years of any offenses referred to in that section, including any charge of fraud, bribery, collusion, conspiracy, or any other act in violation of any state or federal antitrust law in connection with the bidding upon, award of, or performance of, any public works contract, as defined in Public Contract Code section 1101, with any public entity, as defined in Public Contract Code section 1100, including the Regents of the University of California or the Trustees of the California State University. The term "bidder" is understood to include any partner, member, officer, director, responsible managing officer, or responsible managing employee, as referred to in section 10285.1.

Note: The bidder must place a check mark after "has" or "has not" in one of the blank spaces provided.

The above Statement is part of the bid. Signing this bid on the signature portion shall also constitute signature of this Statement.

Bidders are cautioned that making a false certification may subject the certifier to criminal prosecution.



PUBLIC CONTRACT CODE SECTION 10162 QUESTIONNAIRE

In accordance with Public Contract Code section 10162, the bidder shall complete, under penalty of perjury, the following questionnaire:

Has the bidder, any officer of the bidder, or any employee of the bidder who has a proprietary interest in the bidder, ever been disqualified, removed, or otherwise prevented from bidding on, or completing a federal, state, or local government project because of a violation of law or a safety regulation?

Yes No ✓

If the answer is yes, explain the circumstances in the following space.

PUBLIC CONTRACT CODE SECTION 10232 STATEMENT

In accordance with Public Contract Code section 10232, the Contractor states under penalty of perjury that no more than one final unappealable finding of contempt of court by a federal court has been issued against the Contractor within the immediately preceding two year period because of the Contractor's failure to comply with an order of a federal court which orders the Contractor to comply with an order of the National Labor Relations Board.

Note: The above Statement and Questionnaire are part of the bid. Signing this bid on the signature portion shall also constitute signature of this Statement and Questionnaire.

Bidders are cautioned that making a false certification may subject the certifier to criminal prosecution.

**NONCOLLUSION DECLARATION PURSUANT TO PUBLIC CONTRACT CODE SEC.
7106**

The undersigned declares: Rodney Jenny

I am the Executive V.P. of Granite Rock Company, the party making the foregoing bid.

The bid is not made in the interest of, or on behalf of, any undisclosed person, partnership, company, association, organization, or corporation. The bid is genuine and not collusive or sham. The bidder has not directly or indirectly induced or solicited any other bidder to put in a false or sham bid. The bidder has not directly or indirectly colluded, conspired, connived, or agreed with any bidder or anyone else to put in a sham bid, or to refrain from bidding. The bidder has not in any manner, directly or indirectly, sought by agreement, communication, or conference with anyone to fix the bid price of the bidder or any other bidder, or to fix any overhead, profit, or cost element of the bid price, or of that of any other bidder. All statements contained in the bid are true. The bidder has not, directly or indirectly, submitted his or her bid price or any breakdown thereof, or the contents thereof, or divulged information or data relative thereto, to any corporation, partnership, company association, organization, bid depository, or to any member or agent thereof to effectuate a collusive or sham bid, and has not paid, and will not pay, any person or entity for such purpose.

Any person executing this declaration on behalf of a bidder that is a corporation, partnership, joint venture, limited liability company, limited liability partnership, or any other entity, hereby represents that he or she has full power to execute, and does execute, this declaration on behalf of the bidder.

I declare under penalty of perjury under the laws of the State of California that the foregoing is true and correct and that this declaration is executed on April 7, 2020 [date], at San Jose [city], California [state].

CALIFORNIA PUBLIC AGENCY, DEBARMENT AND SUSPENSION CERTIFICATION

The bidder, under penalty of perjury, certifies that, except as noted below, he/she or any person associated therewith in the capacity of owner, partner, director, officer, manager:

is not currently under suspension, debarment, voluntary exclusion, or determination of non-responsibility or ineligibility by any State or Local Agency in California;

has not been suspended, debarred, voluntarily excluded or determined non-responsible or ineligible by any State or Local Agency in California within the past 5 years;

has not filed any claims, demands for arbitration, or lawsuits against a public agency within the past five years;

has not had any bid submitted to a public agency in the past five years rejected or refused on the grounds that the bidder is not responsible;

has not been found by a court or arbitrator to have filed or presented a false claim against a public agency;

does not have a proposed debarment pending; and

has not been indicted, convicted, or had a civil judgment rendered against it by a court of competent jurisdiction in any matter involving fraud or official misconduct within the past 5 years.

If there are any exceptions to this certification, insert the exceptions in the following space.

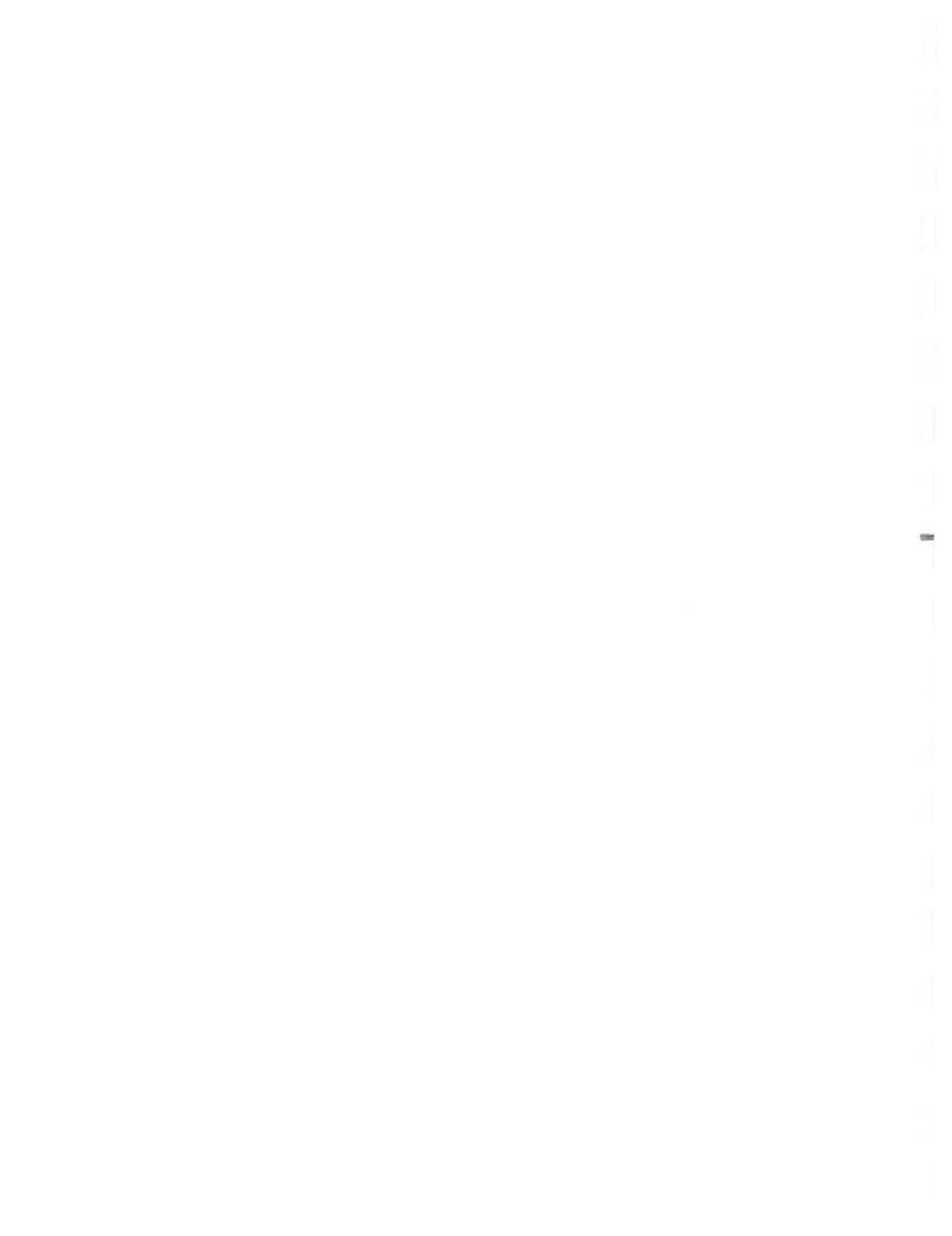
Exceptions will not necessarily result in denial of award, but will be considered in determining bidder responsibility. For any exception noted above, indicate below to whom it applies, initiating agency, and dates of action.

Note: Providing false information may result in criminal prosecution or administrative sanctions.

The above certification is part of the bid. Signing this bid on the signature portion thereof shall also constitute signature of this Certification.



THIS PAGE INTENTIONALLY LEFT BLANK



SIGNATURE (BID)

Accompanying this bid is a Bidder's Bond
(Insert the words "cash" (\$_____), "cashier's check," "certified check," or "bidder's bond,"
in amount equal to at least ten percent of the total of the bid.

The names of all persons interested in the foregoing bid as principals are as follows:

IMPORTANT NOTICE

If bidder or other interested person is a corporation, state its secretary, treasurer, and manager; if a copartnership, state true name of firm, also names of all individual copartners composing firm; if bidder or other interested party is an individual, state first and last names in full.

Granite Rock Company

Please see the attached Officers of the Company.

California Corporation

License in accordance with an act providing for the registrations of contractors.

License No. 22 License Expiration Date April 30, 2021

Classification(s) A, B, HAZ

ADDENDA-BID

This bid is submitted with respect to the changes to the contract included in addenda number/s

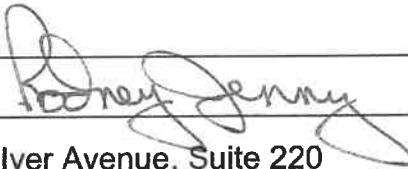
1, 2,

(Fill in addenda numbers if addenda have been received and insert, in this bid, any Engineer's Estimate sheets that were received as part of the addenda.)

Addendum or addenda issued by the County must be noted above.

By my signature on this bid I certify, under penalty of perjury under the laws of the State of California, that the foregoing questionnaire and statements of Public Contract Code sections 10162, 10232 and 10285.1 are true and correct and that the bidder has complied with the requirements of section 8103 of the Fair Employment and Housing Commission Regulations (Chapter 5, Title 2 of the California Administrative Code). By my signature on this bid I further certify, under penalty of perjury under the laws of the State of California and the United States of America, that the Noncollusion Affidavit required by Title 23 United States Code, section 112 and Public Contract Code section 7106; and the Title 49 Code of Federal Regulations, Part 29 Debarment and Suspension Certification are true and correct.

Date: April 15, 2020


Rodney Jenny,
Executive Vice President

Signature and Title of Bidder

Business Address

5225 Hellyer Avenue, Suite 220

Place of Business

San Jose 95138

Place of Residence

California



Incorporated in the State of California

OFFICERS OF THE COMPANY

Chairman of the Board	Mark Kaminski 350 Technology Drive Watsonville, CA 95076
President & CEO	Thomas Squeri 350 Technology Drive Watsonville, CA 95076
Vice President & CFO	Stephen Snodgrass 350 Technology Drive Watsonville, CA 95076
Vice President, General Counsel Secretary	Kevin Jeffery 350 Technology Drive Watsonville, CA 95076
Executive Vice President, Construction Division	Rodney Jenny 5225 Hellyer Avenue, Suite 220 San Jose, CA 95138
Executive Vice President, Material Plants Division	Rich Sacher 350 Technology Drive Watsonville, CA 95076
Executive Vice President, Aggregate Division	Henry Ramirez 350 Technology Drive Watsonville, CA 95076
Vice President Human Resource Services	Shirley Ow 350 Technology Drive Watsonville, CA 95076
Vice President Environmental, Quality, Safety, Geology	Charles A. Johnston 350 Technology Drive Watsonville, CA 95076

- Monterey County
- San Benito County
- San Mateo County
- Santa Clara County
- Santa Cruz County
- Alameda County
- City and County of San Francisco



CERTIFICATION OF CORPORATE RESOLUTION

The directors of Granite Rock Company, a corporation organized and existing under the laws of the State of California, duly approved, on March 18, 2017, in accordance with the Articles of Incorporation and Bylaws of the corporation, the following resolution:

RESOLVED, that each of the following persons is fully authorized to sign bid and contract documents on behalf of Granite Rock Company, doing business as Graniterock, and to bind the corporation with respect to such documents:

Kevin Jeffery
Rodney Jenny
Aaron Johnston
Mark Kaminski
Shirley Ow

Henry Ramirez
Rich Sacher
Steve Snodgrass
Tom Squeri

I, Kevin Jeffery, Vice President and Secretary of Granite Rock Company, do hereby certify that I am the Vice President and Secretary of such corporation, and that the above resolution was duly adopted by the Board of Directors of such corporation, and that such resolution has not been revoked or rescinded.

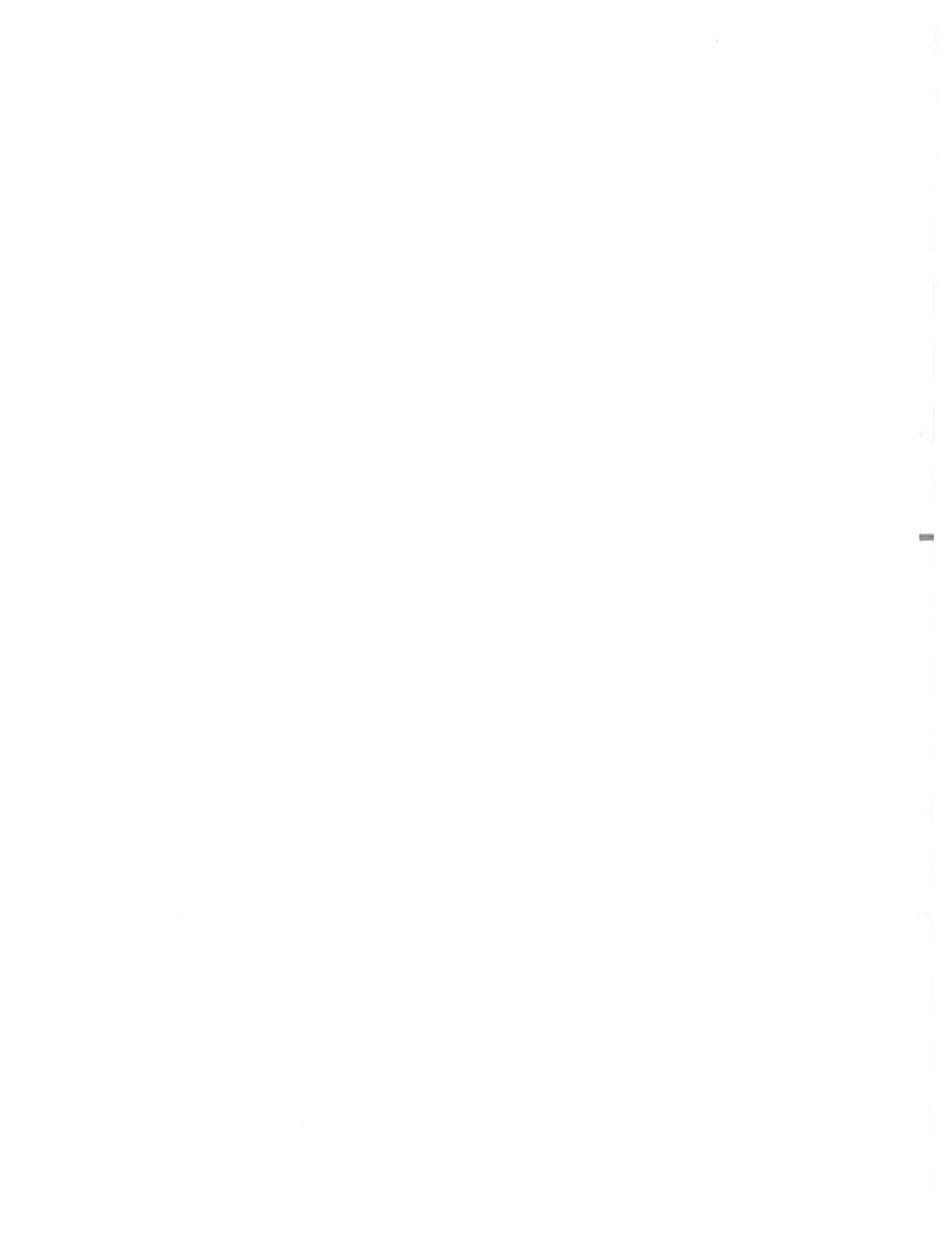
In witness whereof, I have hereunto subscribed my name and affixed the seal of such corporation.

Dated: April 7, 2020



Kevin Jeffery
Vice President and Secretary

- Monterey County
- San Benito County
- San Mateo County
- Santa Clara County
- Santa Cruz County
- Alameda County
- City and County of San Francisco



BILL EMLEN
Director
(707) 784-6765

TERRY SCHMIDTBAUER
Assistant Director
(707) 784-6765

MATT TUGGLE
Engineering Manager
(707) 784-6765

DEPARTMENT OF RESOURCE MANAGEMENT



SOLANO COUNTY

Public Works – Engineering Services Division

675 Texas Street, Suite 5500
Fairfield, CA 94533-6342
(707) 784-6765
Fax (707) 784-4805

www.solanocounty.com

April 9, 2020

COUNTY OF SOLANO COUNTY STATE OF CALIFORNIA

NOTICE TO BIDDERS, BID FORM, SPECIAL PROVISIONS, AGREEMENT AND RELATED CONTRACT DOCUMENTS FOR CONSTRUCTION OF

TIMM ROAD IMPROVEMENT PROJECT

ADDENDUM NO. 1

TO: ALL PROSPECTIVE BIDDERS

You are hereby notified of the following additions, changes and/or clarifications to the project plans and specifications:

1. The Contractor's attention should be directed to the cross sections for Timm Road which are available at the BPXpress website at <http://www.solanormplanroom.com/>. These are provided for information only and are not part of the Contract documents.
2. To maintain social distancing the Notice to Bidder, Pg. 7 is Amended as follows:
 - a. Delete Paragraphs 6 and 7 in their entirety.
 - b. Insert: **Bids must be submitted in person on the date of bid opening** at the Solano County Administration Center (CAC), 675 Texas Street, Fairfield, California, 94533. A drop box on the first floor will be available adjacent to the Information Desk and marked "Public Works Engineering, BIDS". Bids must be placed in the drop box by the time deadline of the date of bid opening.

To maintain social distancing, bids will be read publicly outside the CAC in the public plaza, or in the Parking Garage in the event of increment weather immediately after the specified closing time.

3. The contractor shall be knowledgeable of State of California guidance and requirements for workers at <https://www.labor.ca.gov/coronavirus2019/>.

Sincerely,

A handwritten signature in black ink, appearing to read "Matt Tuggle".

Matt Tuggle
Engineering Manager

BILL EMLEN
Director
(707) 784-6765

TERRY SCHMIDTBAUER
Assistant Director
(707) 784-6765

MATT TUGGLE
Engineering Manager
(707) 784-6765

DEPARTMENT OF RESOURCE MANAGEMENT



SOLANO COUNTY

Public Works – Engineering Services Division

675 Texas Street, Suite 5500
Fairfield, CA 94533-6342
(707) 784-6765
Fax (707) 784-4805

www.solanocounty.com

April 15, 2020

COUNTY OF SOLANO COUNTY STATE OF CALIFORNIA

NOTICE TO BIDDERS, BID FORM, SPECIAL PROVISIONS, AGREEMENT AND RELATED CONTRACT DOCUMENTS FOR CONSTRUCTION OF

TIMM ROAD IMPROVEMENT PROJECT

ADDENDUM NO. 2

TO: ALL PROSPECTIVE BIDDERS

You are hereby notified of the following additions, changes and/or clarifications to the project plans and specifications:

1. Bid opening is rescheduled for **Monday, April 27th, 2019 at 2pm**, at the Solano County Administration Center (CAC), 675 Texas Street, Fairfield, California, 94533.
2. Page 11-13 shall be replaced with Attachment A, "Revised Bid Schedule".
3. The Bidder's attention should be directed to the Cut and Fill Table for Timm Road which is available at the BPXpress website at <http://www.solanormplanroom.com/>. The table provided is for information only and is not part of the Contract documents.
4. Pg. 82 Section 20 LANDSCAPE shall be deleted in its entirety and replaced with the following:

20 LANDSCAPE

20-2 IRRIGATION

20-2.01D Payment

The lump Sum unit price for Drip Irrigation System shall include removal of existing piping, temporary capping of the existing service line, trenching, backfill, installing supply line, leak testing, drip irrigation tubing, and emitters. Complete in-place as shown in the Revised Contract plans, and CALTRANS Standard Plans 2018, and specified in the 2018 CALTRANS Standard Specification.

20-3 PLANTING

20-3.01 GENERAL

Plant trees in conformance with Section 20-3.02C(3), except as follows:

The Contractor shall be responsible for maintaining trees in accordance with Section 20-4, Plant Establishment, for 90 calendar days after the trees are planted. Trees that are determined by the County's arborist to be non-viable at the end of 90 days shall be replaced. Replace trees in accordance with Section 20-3.01C(4).

20-3 .03D Payment

Payment quantity for plant trees is measured by a count of the living plants in place at the end of 90 calendar days from the time of planting.

20-10.03 EXISTING PLANTING

20-10.03C(3) Transplant Trees

Transplant trees and shrubs as shown in the plans to a location as determined by the Engineer in accordance with Section 20-10.03C of the Standard Specifications, except as follows:

The Contractor shall be responsible for maintaining trees and shrubs in accordance with Section 20-4, Plant Establishment, for 90 calendar days after the trees and shrubs are transplanted and the irrigation system is installed. Trees and shrubs that are determined by the County's arborist to be non-viable at the end of 90 days shall be replaced by Contractor. Replace trees in accordance with Section 20-3.01C(4).

1. Flowering Shade trees: Chanticleer pear or fruitless pear
2. Shrubs: Photinia Fraseri

Replace trees and shrubs in accordance with Section 20-3.01C(4).

20-10 .03D Payment

The contract unit price paid by each for Transplant Tree or Transplant Shrub shall include full compensation for pruning, removing, relocating, excavation, backfill, clean-up and replacement as required by the Contractor.

5. Sheet 6 of the Plan Set has been revised to show changes in driveway slopes.
6. Sheet 10 of the Plan Set has been revised to show additional work beyond Right of Way.
7. Sheet 24 of the Plan Set is to be deleted.
8. Structural sections for reconstruct driveway shall be as follows:

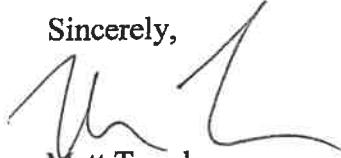
Existing concrete driveways: 5 1/2" thick concrete reinforced with #4 Reinforcing Bar at 18" on-center each-way at mid-depth, over 2" of compacted 3/4" AB.



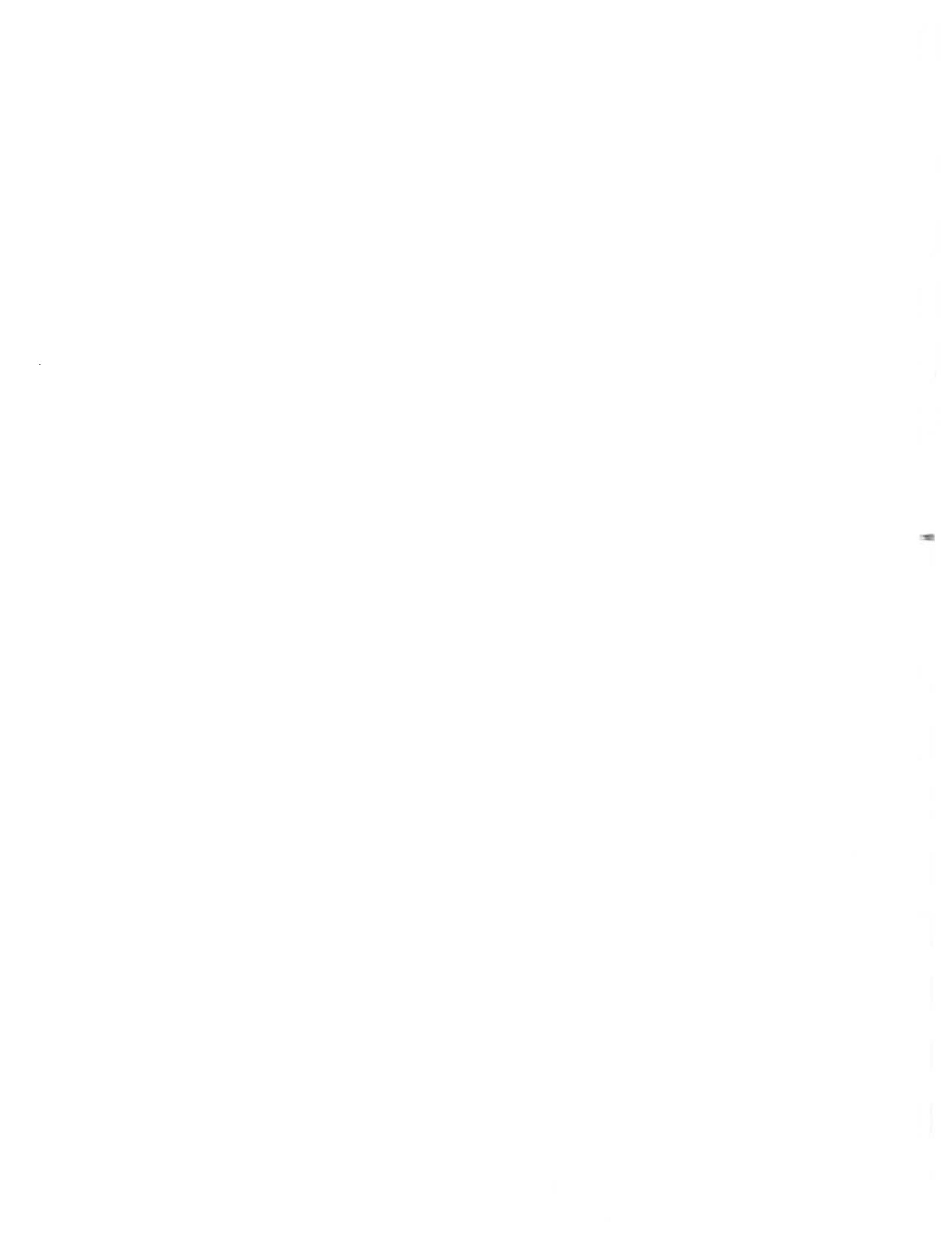
Existing AB or AC driveway: Pave with 2" of HMA over 6" of compacted AB to the right of way. Conform paving over existing AC driveway may be necessary, and will be limited to 3" maximum thickness, as determined by the Engineer.

9. No soils report is available for the Project. Bidders/Contractor should anticipate excavation soils to generally include stiff to very stiff silty clays/sandy clays. From Sta 21+00 to 27+00, excavation soils should be anticipated to include very stiff to hard claystones, and medium dense to dense sandstones. Bidder should anticipate using equipment that is able to rip/scarify these materials as part of the contract work.
10. Exported material may be exported to County disposal site near the intersection of Hartley Road and Allendale Road. Deposited material must be spread and leveled before final payment for export is paid.
11. The roadway shall be closed at Rolling Hills Road and Lakeview Drive to through traffic during the installation of the concrete box culvert. Maintain access to local residents during this period. Upon completion of the culvert, the road shall be opened to through traffic, and two lane widths of traffic shall be made available to the public during the hours that Contractor is not actively working. During working hours maintain at least a 10' wide roadway with reversible traffic. The public will be allowed to drive on an unpaved surface, but the roadway must be maintained in a safe condition.
12. Attention is directed to the deleted plan sheet 24. This sheet was incorrectly labeled as "Keystone Retaining Wall East Side." This sheet should have been labeled "Keystone Retaining Wall WEST Side." This addendum is deleting the West Side Wall in its entirety, and keeping the East Side Wall as shown on Sheet 23.

Sincerely,



Matt Tuggle
Engineering Manager



THIS PAGE INTENTIONALLY LEFT BLANK



BID BOND

KNOW ALL MEN BY THESE PRESENTS:

That Granite Rock Company, as Principal, and Western Surety Company, a Corporation, organized and existing under and by virtue of the laws of the State of South Dakota and authorized to do surety business in the State of California, as Surety, are held and firmly bound unto the County of Solano, State of California, as Obligee, in the sum of Ten percent (10%) of the total amount bid Dollars (\$_____), for the payment of which sum well and truly to be made, we, and each of us, bind ourselves, our heirs, executors, administrators, successors and assigns, jointly and severally, firmly by these presents.

THE CONDITION OF THIS OBLIGATION IS SUCH that whereas the Principal has submitted a bid to the County of Solano, State of California, for all work specifically described in the accompanying bid;

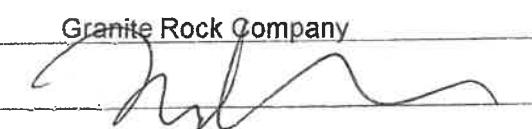
TIMM ROAD IMPROVEMENT PROJECT

NOW, THEREFORE; if the aforesaid Principal is awarded the contract, and within the time and manner required under the specifications, after the prescribed forms are presented to him for signature, enters into a written contract, in the prescribed form, in accordance with the bid, and files two bonds with the Obligee, one to guarantee faithful performance of the contract and the other to guarantee payment for labor and materials as provided by law, or if the said Principal shall fully reimburse and save harmless the Obligee from any damage sustained by the Obligee through failure of the Principal to enter into the written contract and to file the required performance and labor and material bonds, then this obligation shall be null and void; otherwise, it shall be and remain in full force and effect.

In the event suit is brought upon this bond by the Obligee and judgment is recovered, the Surety shall pay all costs incurred by the Obligee in such suit, including a reasonable attorney's fee to be fixed by the Court.

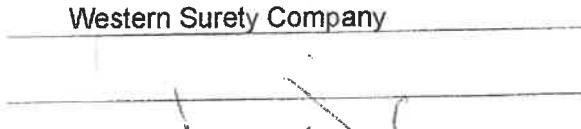
IN WITNESS WHEREOF, we have hereunto set our hands and seal this 6th day of April 2020.

Granite Rock Company



By: Thomas Squeri, President & CEO
Principal (Seal)

Western Surety Company



Surety (Seal)
Joan DeLuca, Attorney-in-Fact

NOTE:

- (1) Signatures of those executing for the surety must be properly acknowledged.
- (2) This bond must be in an amount equal to at least ten (10%) percent of the amount bid.
- (3) Bidders must use this form unless the surety company form is substantially the same.

THIS PAGE INTENTIONALLY LEFT BLANK

CALIFORNIA ALL-PURPOSE ACKNOWLEDGMENT

CALIFORNIA ALL PURPOSE ACKNOWLEDGMENT

A notary public or other officer completing this certificate verifies only the identity of the individual who signed the document, to which this certificate is attached, and not the truthfulness, accuracy, or validity of that document.

STATE OF CALIFORNIA

COUNTY OF _____

On _____ before me,

Notary _____

My commission and title of this officer

Public, personally appeared _____

Name(s) of Signer(s)

who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal,

Signature: **** See Attached Notary Acknowledgment ****

OPTIONAL

Though this section is optional, completing this information can deter alteration of the document or fraudulent attachment of this form to an unintended document.

Description of Attached Document

Title or Type of Document: _____ Document Date: _____

Number of Pages: _____ Signer(s) Other Than Named Above: _____

Capacity(ies) Claimed by Signer(s)

Signer's Name: _____

Signer's Name: _____

Corporate Officer - Title(s) _____

Corporate Officer - Title(s) _____

Partner - Limited General

Partner - Limited General

Individual Attorney in Fact

Individual Attorney in Fact

Trustee Guardian or Conservator

Trustee Guardian or Conservator

Other: _____

Other: _____

Signer is Representing: _____

Signer is Representing: _____

Western Surety Company

POWER OF ATTORNEY APPOINTING INDIVIDUAL ATTORNEY-IN-FACT

Know All Men By These Presents, That WESTERN SURETY COMPANY, a South Dakota corporation, is a duly organized and existing corporation having its principal office in the City of Sioux Falls, and State of South Dakota, and that it does by virtue of the signature and seal herein affixed hereby make, constitute and appoint

Charles R Shoemaker, Nancy L Hamilton, Roger C Dickinson, Stanley D Loar, Kelly Holtemann, Mark M Munekawa, Nerissa S Bartolome, Joan DeLuca, Yvonne Roncagliolo, Thomas E Hughes, Patrick R Diebel, Alicia Dass, Valerie Garcia, Sara Ridge, Christina Burton, Individually

of Novato and San Francisco, CA, its true and lawful Attorney(s)-in-Fact with full power and authority hereby conferred to sign, seal and execute for and on its behalf bonds, undertakings and other obligatory instruments of similar nature

- In Unlimited Amounts -

and to bind it thereby as fully and to the same extent as if such instruments were signed by a duly authorized officer of the corporation and all the acts of said Attorney, pursuant to the authority hereby given, are hereby ratified and confirmed.

This Power of Attorney is made and executed pursuant to and by authority of the By-Law printed on the reverse hereof, duly adopted, as indicated, by the shareholders of the corporation.

In Witness Whereof, WESTERN SURETY COMPANY has caused these presents to be signed by its Vice President and its corporate seal to be hereto affixed on this 6th day of February, 2020.

WESTERN SURETY COMPANY



Paul T. Bruflat, Vice President

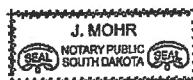
State of South Dakota
County of Minnehaha

} ss

On this 6th day of February, 2020, before me personally came Paul T. Bruflat, to me known, who, being by me duly sworn, did depose and say: that he resides in the City of Sioux Falls, State of South Dakota; that he is the Vice President of WESTERN SURETY COMPANY described in and which executed the above instrument; that he knows the seal of said corporation; that the seal affixed to the said instrument is such corporate seal; that it was so affixed pursuant to authority given by the Board of Directors of said corporation and that he signed his name thereto pursuant to like authority, and acknowledges same to be the act and deed of said corporation.

My commission expires

June 23, 2021



J. Mohr, Notary Public

CERTIFICATE

I, L. Nelson, Assistant Secretary of WESTERN SURETY COMPANY do hereby certify that the Power of Attorney hereinabove set forth is still in force, and further certify that the By-Law of the corporation printed on the reverse hereof is still in force. In testimony whereof I have hereunto subscribed my name and affixed the seal of the said corporation this 6th day of April, 2020.

WESTERN SURETY COMPANY



L. Nelson, Assistant Secretary

CALIFORNIA ALL-PURPOSE ACKNOWLEDGMENT**CIVIL CODE § 1189**

A notary public or other officer completing this certificate verifies only the identity of the individual who signed the document to which this certificate is attached, and not the truthfulness, accuracy, or validity of that document.

State of California)

County of Marin)On April 6, 2020 before me,

Date

personally appeared _____

K. Holtemann, Notary Public

Here Insert Name and Title of the Officer

Joan DeLuca

Name(s) of Signer(s)

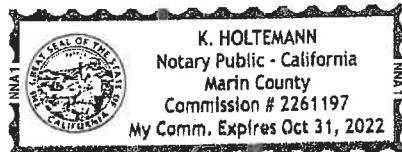
who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

Signature 

Signature of Notary Public



Place Notary Seal Above

OPTIONAL

Though this section is optional, completing this information can deter alteration of the document or fraudulent reattachment of this form to an unintended document.

Description of Attached Document

Title or Type of Document: _____ Document Date: _____

Number of Pages: _____ Signer(s) Other Than Named Above: _____

Capacity(ies) Claimed by Signer(s)

Signer's Name: _____

 Corporate Officer — Title(s): _____ Partner — Limited General Individual Attorney in Fact Trustee Guardian or Conservator Other: _____

Signer Is Representing: _____

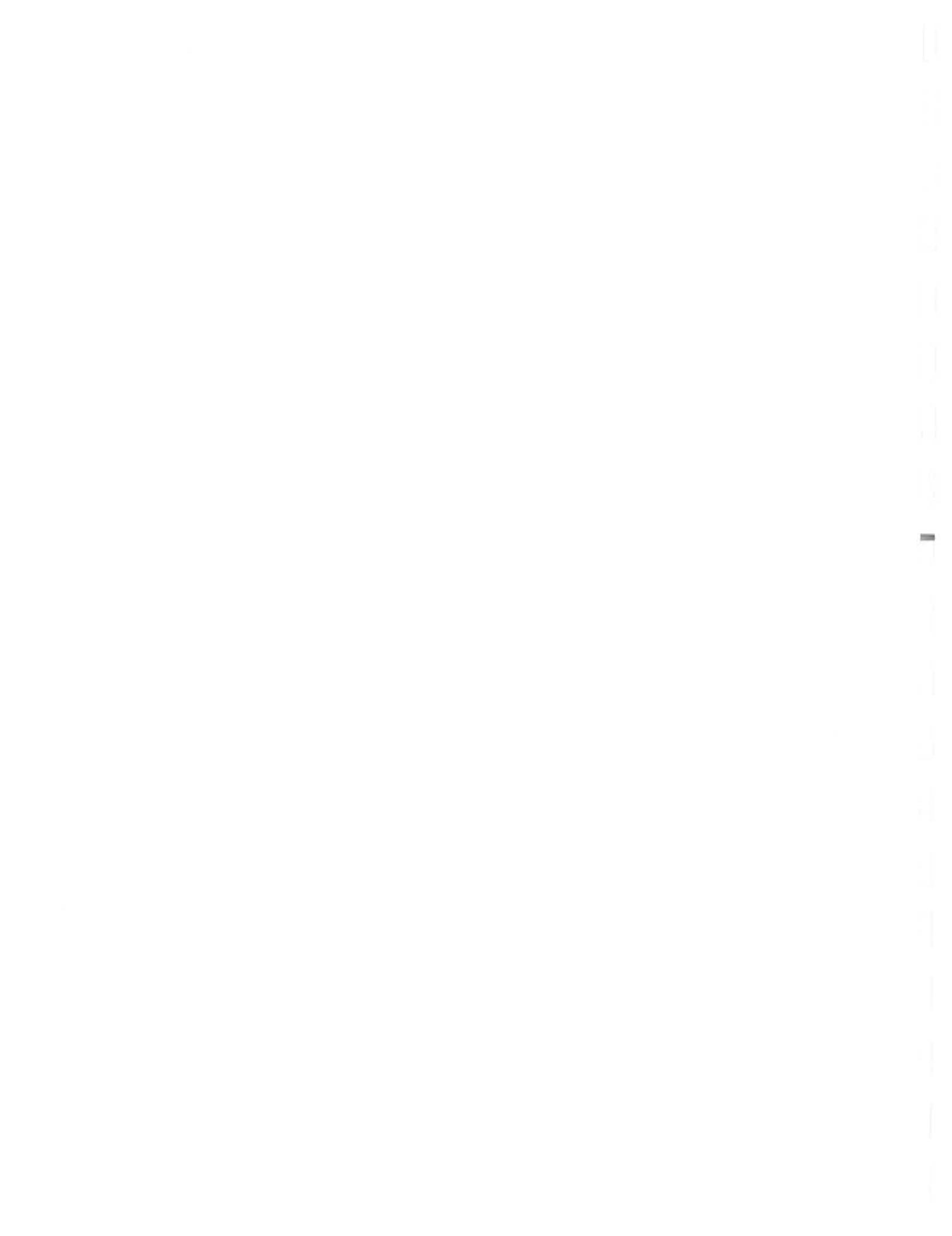
Signer's Name: _____

 Corporate Officer — Title(s): _____ Partner — Limited General Individual Attorney in Fact Trustee Guardian or Conservator Other: _____

Signer Is Representing: _____



THIS PAGE INTENTIONALLY LEFT BLANK



BIDDER INFORMATION SHEET

Bidder must check one of the following classifications which fits its type of business organization and furnish all information required under that classification.

Please type or print your answers.

BIDDER IS AN INDIVIDUAL

Bidder's name as it appears on State Contractor's License is:

BIDDER IS A PARTNERSHIP

Bidder's firm name, individual or partnership, as it appears on State Contractor's License is:

The full names of all the partners as they appear on State Contractor's License are:

County in which any Certificate of Doing Business Under Fictitious Name is Filed (If none, so state).

BIDDER IS A CORPORATION

The full name of the corporation as it appears on the State Contractor's License is:

Granite Rock Company

Corporation is incorporated in the State of: California

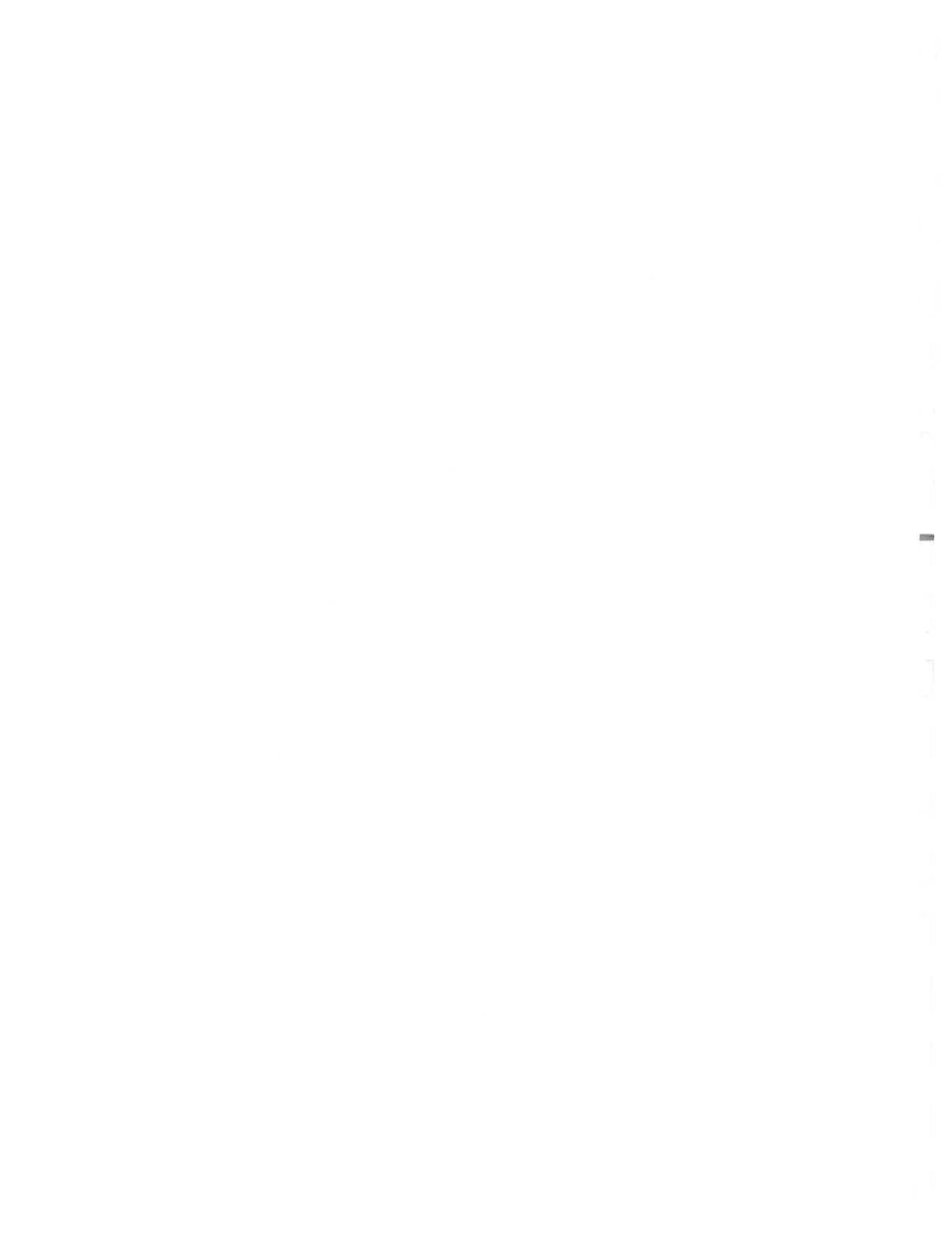


STATEMENT OF EXPERIENCE OF BIDDER

The bidder is required to state what work of similar magnitude or character he or she has done, and to give reference that will enable the County to judge of his experience, skill and business standing and of his or her ability to conduct the work as completely and as rapidly as required under the terms of the contract documents. In each instance, given the nature of the work performed, for whom, amount of contract, dates of work, and the name of architect, Engineer, or other supervising person for the County or public agency. If additional space is needed, use and attach additional sheets.

Please see the attached Project Experience Listing.

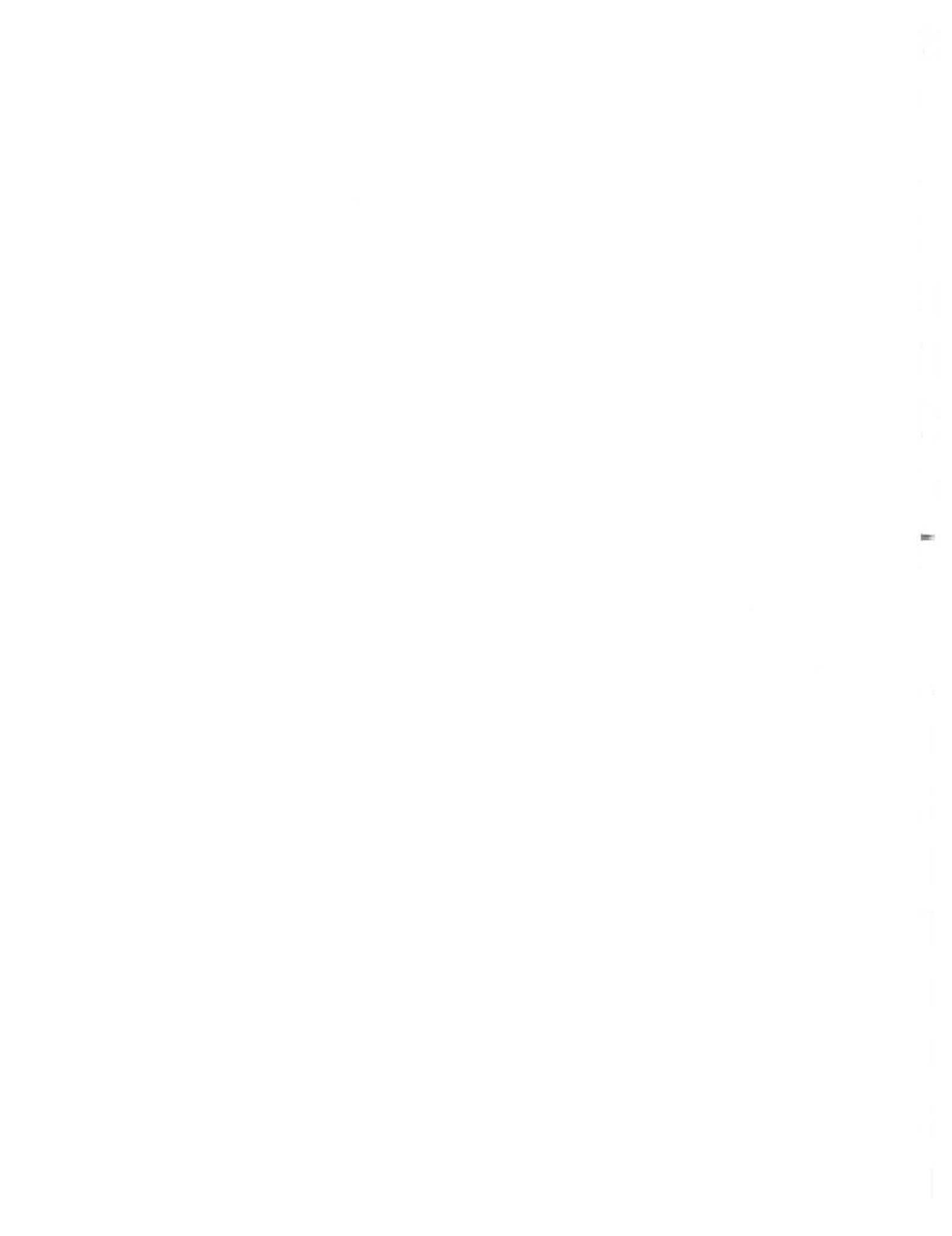
Job	Description	Customer	Type of Work (Use Drop Down Menus)	Contact	Phone	Address	Contract Value
2019 6791 Merrill Farms		X Merrill Farms LLC	X Street Reconstruct	X John Bramer	X (831) 809-7307	X PO Box 659, Salinas, CA 93902	X 570,133.00
2019 6789 Newark Mill Expansion Project		Pabcon Gyrosun	X Earthwork	Pat Fulton	(510) 792-0420	37851 Cherry Street, Newark, CA 94560	541,000.00
2019 6730 Reconstruct Roads El Granada Area		County of San Mateo	X Street Reconstruct	John Schabowski	(650) 363-4100	555 County Center, 5th Floor, Redwood City, CA 94063	685,186.00
2019 6696 John Smith Road CIR Maint. at Fairview Rd		County of San Benito	CIR	Bradley Reif	(631) 902-2271	2301 Technology Parkway, Hollister, CA 95023	315,846.00
2019 6678 Fairfield 2019 Pavement Maintenance		City of Fairfield	Overlay - City	David Vong	(707) 428-7485	1000 Webster Street, Fairfield, CA 94533	2,667,533.00
2019 6677 UCSC McHenry Road Repairs		University of California Santa Cruz	Street Reconstruct	Denise Blais	(831) 459-1651	11586 High Street, East G, Santa Cruz, CA 95064	320,284.00
2019 6674 UCSC Porter Kresge Rd Repairs		University of California Santa Cruz	Overlay - City	Denise Blais	(831) 459-1651	11586 High Street, East G, Santa Cruz, CA 95064	286,270.00
2019 6659 Pavng 2019		Pebble Beach Company	Structure Concrete	Shawn Casey	(831) 277-7878	P.O. Box 1776, Monterey, CA 93953	956,274.00
2019 6636 Santa Clara Bridge Rehabilitation		Transamerica Services, Inc.	Structure Concrete	Derek Brown	(408) 961-3542	93 Cahill Street, San Jose, CA 95110	259,047.00
2019 6623 Millbrae Pavng & Grading		Interstate Paving & Grading	CIR	Jay Enbom	(650) 952-7333	128 South Maple Ave., So. San Francisco, CA 94080	251,440.00
2019 6618 N. Livermore Pavement Rehabilitation		County of Alameda	Street Reconstruct	David Lau	(510) 670-5513	951 Turner Ct., Hayward, CA 94545	5,021,504.00
2019 6608 2019 Major Street Resurfacing		DeSira Gates Construction Inc.	CIR	Pat Gerhards	(925) 829-9220	1155 Dublin Blvd., Dublin, CA 94568	1,056,000.00
2019 6600 JOC 2018-02 Laguna Seca Phase I		County of Monterey	Earthwork	Juan Mesa	(831) 756-8860	168 W. Alisal St., 2nd Floor, Salinas, CA 93901	427,446.00
2019 6593 County Guardrail Project		County of Santa Cruz	Street Reconstruct	Katlie Beach	(831) 455-5707	701 Ocean Street, Rm 410, Santa Cruz, CA 95060	898,371.00
2019 6544 JOC 1809 57-04 Water System		County of San Mateo	Water System	Krzysztof Lisaj	(650) 599-1436	555 County Center 5th Floor, Redwood City, CA 94063	403,560.00
2019 6525 San Mateo PCC Replacement		Cairnars - Contract 04-319004	Highway Constr. (Non-Olay)	Charles Koos	(650) 728-3228	1727 30th Street, Sacramento, CA 95816	3,224,222.00
2019 6509 Runway 13-31 & Runway 8-26 Rehabilitation		Maxwell Asphalt, Inc.	Airports	Rob Mcintosh	(801) 972-2987	PO Box 585, Bountiful, UT 84011	590,286.00
2019 6476 SJA Gate 4 Interim Project		Hensel Phelps Construction Co.	Commercial Site Work	Tina Wells	(650) 743-1810	226 Airport Parkway, San Jose, CA 95110	1,200,000.00
2019 6471 Monterey Resurfacing, (Slurry) Phase 7		City of Monterey	Overlay - City	Lon L. Williamson	(831) 242-8746	580 Pacific St., Monterey, CA 93940	3,637,805.00
2019 6454 Payment Site Phase II		Swinton Builders	Commercial Site Work	Amy Shaffer	(415) 559-2338	2880 Lakeside Drive, Suite 300, Santa Clara, CA 95054	1,800,811.00
2019 6447 West Sacramento Ramp Widening		Caltrans - Contract 03-152304	Highway Constr. (Non-Olay)	Dean Elhassine	(916) 263-4229	1727 30th Street, Sacramento, CA 95816	3,561,391.00
2019 6442 Bay Street Sidewalk Completion Infill Project		City of Santa Cruz	Commercial Site Work	Dan Esfranero	(831) 420-5189	808 Center Street, Rm 201, Santa Cruz, CA 95060	570,819.00
2019 6427 Hwy 129 Carlton Road		Caltrans - Contract 05-1E3504	Overlay - City	Jennifer A. Ylison	(805) 471-2103	1727 30th Street, Sacramento, CA 95816	2,197,892.00
2019 6426 San Benito HMA Overlay		County of San Benito	Commercial Site Work	Gregory J. Bucknell	(831) 902-2160	2301 Technology Parkway, Hollister, CA 95023	352,708.00
2019 6418 Holden Ranch EVOC		County of Santa Clara	Commercial Site Work	Paulo Garcia	(408) 993-4619	2310 N. First Street, 2nd Floor, San Jose, CA 95131	3,439,500.00
2019 6412 San Pedro Square Residence		Monterey Moyer Inc.	Concrete Work	Molly Morris	(650) 570-6161	555 Old County Rd., San Carlos, CA 94070	3,034,000.00
2019 6408 Monterey Runway 10L-28R Overlay		Monterey Peninsula Airport District	Airports	Sherman Low	(831-648-7000	200 Fred Kane Dr., Monterey, CA 93340	1,477,720.00
2019 6407 SJA Terminal B South Ramp		City of San Jose	Airports	Mark Silva	(408) 392-3641	1701 Airport Blvd., Suite B-1130, San Jose, CA 95110	9,867,740.00
2019 6401 SJA North Fuel Operations		City of San Jose	Storm	Mark Silva	(408) 392-3641	1701 Airport Blvd., Suite B-1130, San Jose, CA 95110	354,199.00
2019 6394 Hwy 92 Mill/Overlay		City of Soledad	Overlay - Hwy	Charles Koos	(510) 715-6844	1727 30th Street, Sacramento, CA 95816	4,149,473.00
2019 6391 Soledad Regional Recharge		South Bay Construction	Commercial Site Work	Don Wilcox	(408) 678-3865	248 Main Street, Soledad, CA 93860	2,673,637.00
2019 6390 350 West Trimble		Deacon Construction, LLC	Commercial Site Work	August Essner	(408) 601-8619	1711 Dell Ave., Campbell, CA 95088	1,804,235.00
2019 6384 The Redwoods Apartments		City of Burlingame	Structure Concrete	Robert Pacheco	(408) 206-3987	7745 Greenback Lane, Ste 250, Citrus Heights, CA 95610	449,788.00
2019 6353 El Portal & Trousdale Channel		County of Santa Clara	Overlay - Hwy	Martin Quan	(408) 558-7245	501 Primrose Rd., Burlingame, CA 94010	1,198,088.00
2019 6335 Capitol Expressway ITS Project		Caltrans - Contract 04-0P8504	Commercial Site Work	David Parks	(408) 573-4226	101 Sycamore Drive, San Jose, CA 95110	6,105,336.00
2019 6328 HWY 1 Overlay Pacifica		City of Soledad	Commercial Site Work	Marcus Washington	(650) 738-3804	1727 30th Street, Sacramento, CA 95816	12,571,406.00
2019 6328 Peninsula College FGRP		South Bay Construction, Inc.	Concrete Work	Marc Morgan	(408) 348-4518	1711 Dell Ave., Campbell, CA 95088	1,254,451.00
2019 6323 Caltrain Grade Crossing JPB		Peninsula Corridor Joint Powers Board	Structure Concrete	Martha Martinez	(650) 508-6270	1250 San Carlos Ave., San Carlos, CA 94070	1,667,174.00
2019 6322 El Portal & Trousdale Channel		City of Burlingame	Street Reconstruct	Eunmi Choi	(408) 210-8203	1727 30th Street, Sacramento, CA 95816	1,762,374.00
2019 6319 Golden Gate Constructors		Golden Gate Constructors	Commercial Site Work	Mike Gates	(925) 361-1584	1155 Dublin Blvd., Dublin, CA 94568	391,623.00
2019 6319 Menlo Gateway		Webcor Builders	Concrete Work	Matt Mizek	(510) 333-8666	1751 Harbor Bay Parkway, Suite 200, Alameda, CA 94502	933,886.00
2019 6245 Caltrain Grade Crossing Redwood City		XL Construction	Commercial Site Work	Peter Delgado	(650) 780-3737	1017 Middlefield Rd., Redwood City, CA 94064	841,360.00
2019 6242 Charterton East Trenching		Cupertino Electric, Inc.	Commercial Site Work	Aminder Jhali	(408) 484-7131	1132 North 7th Street, San Jose, CA 95112	1,112,449.00
2019 6227 Monterey JOC 2018		County of Monterey	Earthwork	Florence Kubawasa-Gr	(831) 755-4805	168 W. Alisal St., 2nd Floor, Salinas, CA 93801	3,743,468.00
2019 6193 Case Pacific Hwy 17 Emergency		Case Pacific Company	Structure Concrete	Willi Gehrke	(510) 568-1988	2121 Ardinore Rd., Pasco Robles, CA 93446	2,556,659.00
2019 6160 Central Ave. Bridge - Lyon		William Lyon Homes	Structure Concrete	Doug Glasco	(925) 543-5512	2603 Camino Ramon, Suite 450, San Ramon, CA 94583	1,456,795.00
2019 6128 Assembly N. 1St Street, San Jose		XL Construction	Commercial Site Work	Tony Vierra	(408) 240-6354	851 El Camino Real, Milpitas, CA 95035	2,966,656.00
2019 6126 HWY 12 PM 12-9 Emergency		Caltrans - Contract 04-4K9304	Structure Concrete	Bert Araki	(408) 854-5835	1007 Knox Avenue, San Jose, CA 95122	1,074,085.00
2019 6095 SWEPS Sitework Project		San Jose Valley Transportation Authority	Commercial Site Work	Peter Delgado	(408) 259-1792	3331 North 1st St., San Jose, CA 95114	3,743,468.00
2019 6079 Lick Wilmerding High School		Truebeam Construction	Earthwork	Chris Guerra	(650) 284-6588	1017 Middlefield Rd., Redwood City, CA 94065	2,473,032.00
2019 6076 City of Redwood City		Caltrans - Contract 05-1J3204	Street Reconstruct	Kelly Wathen	(650) 284-6588	1727 30th St., Sacramento, CA 95816	1,569,063.00
2019 6038 Hwy 35 Skyline to 18th Avenue		Caltrans - Contract 04-2K5504	Earthwork	Jennifer Wilson	(805) 471-2103	1727 30th St., Sacramento, CA 95816	2,324,425.00
2019 5999 2855 Park Mass Excavation		South Bay Construction	Street Reconstruct	Jose David	(510) 754-0001	1727 30th St., Sacramento, CA 95816	5,550,846.00
2019 5998 Turner Construction		Caltrans - Contract 04-4K9304	Commercial Site Work	Chris Guerra	(650) 280-9885	1711 Dell Ave., Campbell, CA 95008	1,065,298.00
2019 5979 Lick Wilmerding High School		Truebeam Construction	Earthwork	Peter Delgado	(408) 980-4950	300 Frank H. Oraia Plaza, 510, Oakland, CA 94612	2,556,659.00
2019 5976 Middlefield/Woodside Intersection		Caltrans - Contract 05-1J3204	Street Reconstruct	Jennifer Wilson	(805) 471-2103	1727 30th St., Sacramento, CA 95816	1,512,786.00
2019 5975 Hwy 35 Skyline to 18th Avenue		Caltrans - Contract 04-2K5504	Street Reconstruct	Beisley Lyberg	(831) 424-2383	701 Ocean St., Santa Cruz, CA 95060	5,277,922.00
2019 5974 Alma Station		Vance Brown, Inc.	Commercial Site Work	Harry Burrowes	(650) 616-7085	567 El Camino Real, San Bruno, CA 94066	10,119,620.00
2019 5973 El Camino Real, Palo Alto		Structure Concrete	Commercial Site Work	Jeff Phelan	(415) 608-7109	3197 Park Blvd., Palo Alto, CA 94308	1,082,055.00
2019 5972 Case Pacific Hwy 17 Emergency		Case Pacific Company	Structure Concrete	Ramon Montenegro	(408) 794-1958	200 East Santa Clara St., San Jose, CA 95113	523,822.00
2019 5971 Middlefield/Woodside Intersection		Caltrans - Contract 05-1J3204	Street Reconstruct	Gabriela Mercado	(408) 980-4950	300 Lincoln Ave., Salinas, CA 93801	1,765,311.00
2019 5970 Hwy 35 Skyline to 18th Avenue		Caltrans - Contract 04-2K5504	Structure Concrete	Jennifer Wilson	(805) 471-2103	1 Infilite Loop, Cupertino, CA 95014	26,077,563.00
2019 5969 HWY 47 07/05/18		Caltrans - Contract 04-4K9304	Street Reconstruct	Beisley Lyberg	(831) 424-2383	5199 S. Powell St., Suite 920, Emeryville, CA 94608	1,859,937.00
2019 5968 Moffett Bus Lot Improvements Phase 2		Turner Construction	Commercial Site Work	Harry Burrowes	(415) 608-7109	360 Sutton Place, Santa Rosa, CA 95407	539,842.00
2019 5967 Case Pacific Hwy 17 Acacia Eradication		Truebeam Construction	Earthwork	Jeff Phelan	(408) 794-1958	200 East Santa Clara St., San Jose, CA 95113	523,822.00
2019 5966 Middlefield/Woodside Intersection		Caltrans - Contract 05-1J3204	Street Reconstruct	Ramon Montenegro	(408) 794-1958	200 Lincoln Ave., Salinas, CA 93801	1,765,311.00
2019 5965 Hwy 35 Skyline to 18th Avenue		Caltrans - Contract 04-2K5504	Earthwork	Mike Mills	(408) 583-9597	1 Infilite Loop, Cupertino, CA 95014	26,077,563.00
2019 5964 HWY 47 07/05/18		Caltrans - Contract 04-4K9304	Street Reconstruct	Sharon Hall	(510) 350-4102	2000 Powell St., Suite 920, Emeryville, CA 94608	1,859,937.00
2019 5963 HWY 47 07/05/18		Caltrans - Contract 04-4K9304	Earthwork	Christie Berglund	(707) 542-4862	360 Sutton Place, Santa Rosa, CA 95407	539,842.00



date	Job	Description	Customer	Type of Work (Use Drop Down Menu)	Contact	Phone	Address	Contract Value
2018	5947	Branchforte Pedestrian Bridge	City of Santa Cruz	Structure Concrete	Nathan Nguyen	(831) 420-5188	809 Center St., Room 201, Santa Cruz, CA 95060	1,761,739.00
2018	5917	SC Fall 2016 Overlay	City of Santa Cruz	Overlay - City	Ricardo Valdies	(831) 420-5188	809 Center St., Room 201, Santa Cruz, CA 95060	2,384,455.00
2018	5914	Dewitt Ave. "S-Curve" Realignment	County of Santa Clara	Street Reconstruct	Bernardine Caceres	(408) 573-2486	101 Skyport Dr., San Jose, CA 95110	2,107,641.00
2018	5910	Monterey Co. JOC 2017	County of Monterey	Street Reconstruct	Juan Mesa	(831) 760-9892	168 W. Alisal St., 2nd Floor, Salinas, CA 93901	3,366,256.00
2018	5890	St. John Bikeway & Pedestrian Improvement	City of San Jose	Street Reconstruct	Michael Mai	(408) 793-4150	200 East Santa Clara St., 6th Floor, San Jose, CA 95113	1,471,093.00
2018	5880	MST Monterey	Salinas Steel Builders	Commercial Site Work	James Moore	(831) 724-1847	1161 Terven Ave., Salinas, CA 93801	2,619,778.00
2018	5874	Mankas Corner Improvements	County of Solano	Overlay - City	Nicholas Burton	(707) 784-6755	6751 Texas St., Ste 5500, Fairfield, CA 94533	987,150.00
2018	5854	BNN/Webscor Builders J.V.	BNN/Webcor Builders J.V.	Commercial Site Work	Mike Pave	(650) 678-2231	201 Redwood Shores Pkwy. 125, Redwood City, CA 94065	1,749,826.00
2018	5820	Union City/H Street	City of Union City	Street Reconstruct	Mike Renk	(510) 675-5303	34009 Alvarado-Niles Rd., Union City, CA 94587	4,065,938.00
2018	5804	UPRR Spur Track Relocation	City of Fremont	Earthwork	Mirafel Aguilar	(510) 494-4761	255 85th Liberty St., Fremont, CA 94538	573,982.00
2018	5800	SEIA Tardanes H & M Realignment	Golden Gate Constructors	Airports	Quinn Hance	(510) 913-2259	11555 Dublin Blvd., Dublin, CA 94568	4,967,628.00
2018	5762	HWY 126: Boulder Creek to Hwy 9	Caltrans - Contract 05-1F5404	Overlay - Hwy	Katlie Beach	(831) 427-4706	1727 30th St., Sacramento, CA 95816	3,856,048.00
2018	5514	HWY 129 Safety Improvements	Caltrans - Contract 05-05T5404	Highway Constr. (Non-Olary)	Adrian Killian	(831) 427-4706	1727 30th St., Sacramento, CA 95816	5,006,988.00
2018	5343	UCSC Building Infrastructure	Switzerland Builders	Commercial Site Work	Mike Renk	(415) 696-5150	1995 Laurelwood Rd., Santa Clara, CA 95054	22,320,978.00
2017	6259	Balfour Road Contra Costa	Contra Costa County	CIR	Adelia Huerta	(925) 313-2305	255 Glacier Drive, Martinez, CA 94553	171,381.00
2017	6197	Damon Lane Retaining Wall	City of Saratoga	Structure Concrete	Emma Burkhalter	(408) 889-1214	13777 Foothill Ave., Saratoga, CA 95070	276,986.00
2017	6195	Special Events Parking	Pebble Beach Company	Earthwork	Tom McMillan	(831) 277-7889	PO Box 1776, Monterey, CA 93953	1,160,780.00
2017	6185	Moffett Field Airport Crack Seal	Turner Construction	Commercial Site Work	Nicole Rendorf	(408) 891-0015	300 Frank H. Ohara, Ste 510, Oakland, CA 94612	1,539,809.00
2017	6180	Marin County 2017 South	Team Ghilotti	CIR	Sean Durenberger	(707) 753-0718	2531 Perlauma Blvd., South, Petaluma, CA 94952	239,150.00
2017	6168	Shore & Safety: Stevens Canyon	County of Santa Clara	Earthwork	Sedegh Sadeghi	(408) 494-1335	101 Skyport Dr., San Jose, CA 95110	54,656.00
2017	6152	Reinard Road Slope	City of Cupertino	Structure Concrete	John Raaymakers	(408) 777-3100	10300 Torre Ave., Cupertino, CA 95014	357,418.00
2017	6071	17 Mile Drive Paving	Overley - City	Overley - City	Nick Becker	(831) 680-1618	3101 Forest Lane Road, Pebble Beach, CA 93953	431,800.00
2017	6048	Pleasanton Valley/Hopward CIR	Pebble Beach CSD	CIR	Huy Ho	(925) 931-5663	123 Main Street, Pleasanton, CA 94566	578,400.00
2017	6047	Pleasanton Valley Avenue & Hopyard	City of Pleasanton	Overley - City	Huy Ho	(925) 931-5663	123 Main Street, Pleasanton, CA 94566	1,424,886.00
2017	6039	GMAT 2	XL Construction	Commercial Site Work	Jerod Creeze	(408) 240-6053	851 Buckeye Ct., Milpitas, CA 95035	860,930.00
2017	6033	PB Surface Lower Parking Lot	Pebble Beach Company	Commercial Site Work	George Chelwick	(831) 324-3224	PO Box 1776, Monterey, CA 93953	754,189.00
2017	6027	Santa Cruz Eco Engr Grind & Pave	County of Santa Cruz	Overley - City	Dawn Harmon	(831) 477-3919	701 Ocean Street, Santa Cruz, CA 95060	47,837.00
2017	6022	Twin Peaks CIR Phase 2	CF Contracting, Inc.	CIR	Coby Friedman	(415) 721-7180	25251 Van Ness Ave., Suite 210, San Francisco, CA 94109	241,100.00
2017	6021	Monterey County Silice MM 13.5	County of Monterey	Earthwork	Jose Gomez	(831) 765-4816	168 W. Alisal St., 2nd Floor, Salinas, CA 93801	852,818.00
2017	6011	Glenwood Drive Emergency	County of Santa Cruz	Earthwork	Carisa Duran	(831) 477-3955	701 Ocean St., #410, Santa Cruz, CA 95060	1,309,159.00
2017	6008	HWY 152 - PCC Slab Replacement	Caltrans - Contract 05-1J0904	Earthwork	Tim Richards	(805) 549-3097	1727 30th St., Sacramento, CA 95816	515,120.00
2017	5992	Bike & HWY Improvement Uvas Road	County of Santa Clara	Earthwork	Sadegh Sadeghi	(408) 494-1335	101 Skyport Drive, San Jose, CA 95110	974,854.00
2017	5981	Bike & HWY Improvement Watsonville Road	County of Santa Clara	Earthwork	Shadieh Sadeghi	(408) 494-1335	101 Skyport Drive, San Jose, CA 95110	749,835.00
2017	5961	Seaport Drive Rehab Valleyjo	City of Valleyjo	Overley - City	Gary Cullen	(707) 648-5403	555 Santa Clara St., Valleyjo, CA 94590	536,647.00
2017	5956	San Jose NE Cargo Switchgear	City of San Jose	Concrete Work	Mark Silva	(408) 392-3641	1701 Airport Blvd., Suite B-1130, San Jose, CA 95110	427,560.00
2017	5931	Ellis Street Pipeline	California Water Service Company	Water System	Julie Huynh	(408) 367-8394	1720 North First St., San Jose, CA 95112	1,059,145.00
2017	5930	AC2 Visitor Center Burrito Wrap	Trubbeck/Webcor	Commercial Site Work	Todd Leicht	(408) 816-4180	201 Redwood Shores Pkwy., Redwood City, CA 94565	4,563,365.00
2017	5925	PB Co. 2016 Paving	Pebble Beach Company	Overley - City	Shawn Cassey	(651) 277-8178	Box 1776, Monterey, CA 93953	984,101.00
2017	5922	SC Fall 2016 Overlay CIR	City of Santa Cruz	CIR	Ricardo Valdies	(831) 420-5198	890 Canller Street, Room 201, Santa Cruz, CA 95060	2,263,000.00
2017	5901	SJIA Terminal Roadway Improvement	City of San Jose	Airports	Mark Silva	(408) 392-3641	1701 Airport Blvd., Suite B-1130, San Jose, CA 95110	1,108,714.00
2017	5849	HWY 152 - PCC Slab Replacement	Caltrans - Contract 04-1A2004	Commercial Site Work	Nilesh Pandya	(408) 592-3433	1727 30th St., Sacramento, CA 95816	1,183,419.00
2017	5843	Valley Fair Chase	McCarthy Building Companies	Commercial Site Work	Kyle Aldridge	(650) 678-2231	1265 Battery St., 3rd Flcor, San Francisco, CA 94111	1,081,627.00
2017	5834	Capitola Street Rehabilitation with CIR	City of Capitola	Overley - City	Steven Jelberg	(831) 475-3300	420 Capitola Ave., Capitola, CA 95010	1,342,068.00
2017	5819	Measure Q Pave Repair 4	City of Concord	Overley - City	Mario Camorongan	(925) 671-3021	1950 Parkside Dr., Concord, CA 94519	1,349,165.00
2017	5802	Hellyer Pavement Rehab	County of Santa Clara	CIR	Khoa Vo	(408) 494-1329	101 Skyport Drive, San Jose, CA 95110	337,404.00
2017	5796	HWY 1 & Imlin	City of Marina	Highway Constr. (Non-Olary)	Edrie DeLos Santos	(408) 884-2025	209 Cypress Lane, Marina, CA 93333	941,890.00
2017	5786	SJIA Southeast Apron	City of San Jose	Airports	Mark Silva	(408) 392-3641	1701 Airport Blvd., Suite B1, San Jose, CA 95110	6,134,403.00
2017	5774	Paseo Largo Golf Course	Bogard Construction	Commercial Site Work	Frank Church	(831) 426-8191	350-A Coral Street, Santa Cruz, CA 95060	1,317,789.00
2017	5760	Buchanan Airport Echo Kilo	County of Contra Costa	Airports	Adelia Huerta	(925) 313-2305	255 Glacier Dr., CC Rich Bldg., Martinez, CA 94553	1,559,961.00
2017	5734	Genesis Parking Structure	Austin Commercial/JXL Construction JV	Commercial Site Work	Matthew Padilla	(310) 270-8139	851 Buckeye Ct., Milpitas, CA 95035	711,979.00
2017	5712	Hwy 1 Cold Plane & Resurface	Caltrans - Contract 05-1G6704	Overley - Hwy	Tyler El Lavening	(831) 375-1621	1727 30th St., Sacramento, CA 95816	1,442,943.00
2017	5708	Emergency Work	County of Solano	Earthwork	Marcus Washington	(650) 222-7516	1727 30th St., Sacramento, CA 95816	888,370.00
2017	5656	Hwy 101 Greenfield to Gonzales	Caltrans - Contract 05-1F69U4	Highway Constr. (Non-Olary)	Phavanya Aranunkul	(831) 758-7903	701 Ocean St., Rm 400, Santa Cruz, CA 95060	478,746.00
2017	5560	Valley Fair Bank of America	McCarthy Builders	Commercial Site Work	Austin Bust	(905) 566-4030	1727 30th St., Sacramento, CA 95816	26,515,000.00
2017	5575	Flinn Road CIR	Earthbound Cascade	Commercial Site Work	Kyle Aldridge	(925) 787-0434	1265 Battery St., 3rd Floor, San Francisco, CA 94111	1,423,356.00
2016	5839	Earthbound Farm Truck/Em Park	Earthbound Farms	Commercial Site Work	Shawn Hammond	(916) 496-1665	555 Exchange Ct., Livermore, CA 94550	198,000.00
2016	5828	Hartley-Rockville Road Shoulder	County of Solano	Overley - City	Ricardo Novoa	(831) 970-4426	1721 San Juan Highway, San Juan Bautista, CA 945045	710,850.00
2016	5824	Santa Cruz High Stadium Improvements	Santa Cruz City School District	Synthetic Field Tuff	Nickolas Burton	(707) 784-2076	675 Ocean St., Suite 550, Fairfield, CA 94533-6342	934,938.00
2016	5795	Berkeley Street Rehabilitation	City of Berkeley	Structure Concrete	Trevor Miller	(831) 212-0089	405 Old San Jose Road, Souel, CA 95073	1,599,829.00
2016	5729	Moffitt Macon Road Improvement	Turner Construction	Street Reconstruct	Billy Issa	(510) 981-6428	168 W. Alisal St., Salinas, CA 93901	1,423,841.00
2016	5722	South San Francisco 2015 Pavement Rehab	South San Francisco	Commercial Site Work	Wendy Wong	(510) 981-6428	1947 Center St., 4th Floor, Berkeley, CA 94704	1,855,454.00
2016	5706	Maple Ave., So., San Francisco	Project Experience	Overley - City	Jonathan Hanses	(408) 334-3138	950 S. Bascom Ave., Suite 3011, San Jose, CA 95128	1,444,491.00
2016	5666	Downtown San Jose BRT Stations	Santa Clara Valley Transportation Authority	Street Reconstruct	Robert Hahn	(650) 828-8660	315 Maple Ave., So., San Francisco, CA 94080	1,650,209.00
					Nick Vukcevich	(408) 484-7739	3331 N. First St., Bldg A-2, San Jose, CA 95134	



Site	Job	Description	Customer	Type of Work (Use Drop Down Menu)	Contact	Phone	Address
2015	5333	Eightberry Street Resurfacing	City of Gilroy	Overlays - City	Jay Yu	(408) 846-0455	735 Rosanna St., Gilroy, CA 950201
2015	5323	Edu. Center-Earthwork & Demo	C.W. Driver	Earthwork	Norman Yang	(408) 678-2224	2248 N. First St., San Jose, CA 95131
2015	5317	Farm Bureau Road	City of Concord	Storm	Mario Camorongan	(925) 671-3021	1950 Parkside Rd., Concord, CA 94519
2015	5311	SSB Fresh Leaf	Sallins Steel Builders	Commercial Site Work	Dana Ausonio	(831) 424-1647	1161 Terren Ave., Salinas, CA 93901
2015	5310	Hwy 152 Grind & Pave	Caltrans - Contract 04-4C204	Overlays - City	Vermen Nguyen	(916) 634-7028	1120 "N" St., Sacramento, CA 95814
2015	5309	Construction of Hwy 280 in Cupertino	Caltrans - Contract 04-272044	Highway Constr. (Non-Olary)	Hung Nguyen	(510) 385-7130	1727 30th St., Sacramento, CA 95816
2015	5306	Terraces of Los Altos	Vance Brown, Inc.	Earthwork	Douglas Mills	(650) 849-9800	3197 Park Blvd., Palo Alto, CA 94306
2015	5304	AC2 Basement	BNB Webcor Builders J.V.	Commercial Site Work	Matt Ocon	(650) 477-6437	201 Redwood Shores Pkwy., 125, Redwood City, CA 94065
2015	5303	Lagunita Dormitory	McCarthy Building Companies	Schools	Tom Harrel	(510) 435-4914	343 Sansome St., 14th Fl., San Francisco, CA 94104
2015	5295	Warehouse Parking Garage	BnBuilders	Commercial Site Work	Kelley Chaffin	(650) 284-6589	201 Redwood Shores Pkwy., 125, Redwood City, CA 94065
2015	5293	City of Saratoga	City of Saratoga	Overlays - City	Rick Torres	(408) 868-1239	13777 Fruitvale Ave., Saratoga, CA 95070
2015	5290	Ramio Reconstruct San Mateo County	Caltrans - Contract 04-0G2224	Highway Constr. (Non-Olary)	Fred Booshishi	(916) 634-7028	1120 "N" Street, Sacramento, CA 95814
2015	5287	Hwy 9 Viaduct	Caltrans - Contract 05-0Q5804	Structure Concrete	Katle Beach	(831) 427-4884	1727 30th St., Sacramento, CA 95816
2015	5271	High Tension Cable Barrier	Caltrans - Contract 05-1C3304	Highway Constr. (Non-Olary)	Farsid Kashovarzi	(831) 375-5920	1727 30th St., Sacramento, CA 95816
2015	5247	Wharf Roundabout	City of Santa Cruz	Street Reconstruct	Desiree Douville	(831) 420-5183	809 Center St., Rm 201, Santa Cruz, CA 95060
2015	5244	Nut Tree Airport	County of Solano	Airports	Joann Epperson	(707) 784-6322	675 Texas St., Ste 2500, Fairfield, CA 94533
2015	5242	Educare of California	Otto Construction	Schools	Rick Valine	(916) 441-6870	1717 Second St., Sacramento, CA 95811
2015	5239	Passenger Safety Improvements	Santa Clara Valley Transportation Authority	Structure Concrete	Dei Sabeti	(408) 321-5603	3331 North 1st St., Blvd. A, San Jose, CA 95134
2015	5233	Marin Park Expansion	City of San Jose	Parks	Al Smith	(408) 535-8350	200 El Santa Clara St., 6th Floor, San Jose, CA 95113
2015	5230	Stockton Metro Airport	XL Construction	Airports	Harry Mavrogen	(209) 468-4700	5000 Airport Way, Stockton, CA 95206
2015	5218	Hillview Palo Alto	United Parcel Service, Inc.	Commercial Site Work	David Crowell	(408) 240-6326	851 Blackeye Ct., Milpitas, CA 95035
2015	5209	Alameda County - Mines Road	County of Alameda	Overlays - City	Chris Grimm	(510) 670-6602	951 Turner Ct., Hayward, CA 94545
2015	5188	Berkeley Haas Building	Vance Brown, Inc.	Schools	Jeff Bioxham	(650) 849-9900	3197 Park Blvd., Palo Alto, CA 94306
2015	5184	SVCW Drying Beds	Silicon Valley Clean Water	Earthwork	Peter Kistermacher	(650) 832-6221	669 206th St., Milpitas, CA 95035
2015	5166	740 Helz	BnBuilders	Commercial Site Work	Kelley Chaffin	(650) 227-1957	201 Redwood Shores Pkwy., 125, Redwood City, CA 94065
2015	5165	UPS Shores	United Parcel Service, Inc.	Commercial Site Work	Mitch Brack	(415) 632-4056	1601 Atlas Rd., Richmond, CA 94806
2015	5137	Hwy 17 Soil Nail Wall	Caltrans - Contract 05-1C1804	Structure Concrete	Bertha Roman	(831) 761-7618	1727 30th Ave., Sacramento, CA 95816
2015	5114	San Pedro Creek Bridge Replacement	Caltrans - Contract 04-265604	Structure Concrete	Charles Koos	(650) 738-3828	1727 30th Street, Sacramento, CA 95816
2015	5106	G Green Loop	XL Construction	Commercial Site Work	Chad Hamilton	(408) 240-6431	851 Buckeye Court, Milpitas, CA 95035
2015	5090	611 Cowier Basement	Vance Brown, Inc.	Commercial Site Work	Tim Silti	(650) 849-9800	3197 Park Blvd., Palo Alto, CA 94306
2015	5086	RWC 24 Hr Fitness	SunCap Redwood LLC	Commercial Site Work	Ben Faist	(980) 229-6008	6101 Carnegie Blvd., Suite 180, Charlotte, NC 28209
2015	5007	Delta America	Vance Brown, Inc.	Commercial Site Work	Marco Guzman	(650) 849-9800	3197 Park Blvd., Palo Alto, CA 94306
2015	5006	Redwood City Towers, Crossing 900	Vance Brown, Inc.	Commercial Site Work	Jeff Phelan	(650) 849-9900	3197 Park Blvd., Palo Alto, CA 94306
2015	4959	Pebble Beach Area E-2	Pebble Beach Company	Commercial Site Work	Steve Alchison	(831) 624-8497	P.O. Box 1776, Monterey, CA 93953
2015	4957	Central Fire District	Central Fire District	Commercial Site Work	Lia Grigg	(831) 479-5980	410 Kennedy Ave., Capitola, CA 95010
2015	4947	North East Ridge Retaining Walls	Toll Brothers, Inc.	Structure Concrete	Steve Herndon	(925) 983-4123	725 West Town and Country Rd., Orange, CA 93904
2015	4921	Easidrive Transit Center	Santa Clara Valley Transportation Authority	Street Reconstruct	Ed Pasqual	(408) 321-5555	3331 North First St., Blvd A, San Jose, CA 95134
2015	3995	Seinai Pit	Raisch Family Trust	Earthwork	Brian Raisch	(408) 891-3535	15581 Toyon Drive, Los Gatos, CA 95030



TIMM ROAD IMPROVEMENT PROJECT

AGREEMENT

THIS AGREEMENT is entered into in quadruplicate this 26TH day of MAY, 2020, between the **COUNTY OF SOLANO, A POLITICAL SUBDIVISION OF THE STATE OF CALIFORNIA** hereinafter called "County," and hereinafter called "Contractor":

W I T N E S S E T H

That for and in consideration of the mutual promises, covenants, agreements and conditions contained in this agreement, the parties agree as follows:

1. Contract Documents:

The complete contract between the parties consists of, and is set forth in, the contract documents. The contract documents consist of: (a) the Notice to Bidders, (b) an accepted Bid Form, (c) this Agreement, (d) accepted Payment and Performance Bonds, (e) the Special Provisions, (f) the Caltrans Standard Plans ("Standard Plans") 2018, (g) the Caltrans Standard Specifications ("Standard Specifications") 2018 pages 1 through 1260, (h) Revised Caltrans Standard Specifications 2018 Dated 10/18/2019 and (i) the Contract Plans. All obligations of the parties are contained in the contract documents, and by their acceptance of this Agreement, the parties agree to be bound by all the provisions of all of the documents. All of the documents are intended to cooperate so that any work called for in one and not mentioned in the other or vice versa, is to be executed the same as if mentioned in all of them.

2. The Work:

Contractor agrees to furnish all tools, equipment, apparatus, facilities, labor, materials, and all utility and transportation services to perform and complete in a good and workmanlike manner (for the prices hereinafter set forth), the work of the

TIMM ROAD IMPROVEMENT PROJECT

project, and other work as called for, and in the manner designated in, and in strict conformance with the contract documents adopted by the County as prepared by the Engineer. The work shall be performed and completed as required in the plans, drawings, and specifications under the direction and supervision of, and subject to the approval of the Engineer, or designated representative.

3. Location of Work:

The work to be performed is on Timm Road between Shawn Lane to 0.5 miles north of Allendale Road, north of Vacaville.

4. Time for Completion:

The work under this contract shall be completed within **EIGHTY-FIVE WORKING DAYS.**

5. Contract Price:

As compensation agreed upon for the work, County shall pay or cause to be paid to Contractor, in full, as and for the full-contract price and compensation for the construction and completion of the work, the sum of **One Million Eight Hundred Ninety-One Thousand Two Hundred Thirty-Five Dollars and Eighty-Five Cents.**

Dollars (\$) 1,891,235.85

which sum is to be paid according to the schedule hereinafter provided and subject to additions and deductions as provided in the contract documents.

6. Payment of Wages:

The State General Prevailing Wage Rates are made a part of this contract. It is further expressly agreed between the parties that should there be any conflict between the terms of this instrument and the bid of the Contractor, then this instrument shall control and nothing shall be considered as an acceptance of the terms of the bid conflicting with it.

7. Workers' Compensation:

By my signature hereunder, as Contractor, I certify that I am aware of the provisions of section 3700 of the Labor Code which requires every employer to be insured against liability for workers compensation or to undertake self-insurance in accordance with the provisions of that code, and I will comply with such provisions before commencing the performance of the work of this contract.

8. Integration:

It is further expressly agreed between the parties that should any conflict arise between the terms of this contract and the bid of the Contractor, this contract shall control and nothing shall be considered as an acceptance of the terms of the bid that conflict with it.

9. Execution of Agreement:

SOLANO COUNTY:

By: Bill E
Bill Emlen
Director of Resource Management

Date: 5/26/2020

CONTRACTOR:

By: Ronney Jenny
TITLE: EVP

Licensed in accordance with an act providing
for the registration of contractors

Date: 5/15/20

Contractor's License No. 22

Business License No. 0991011210

City and County of San Jose
Business License Santa Clara

APPROVED AS TO FORM:

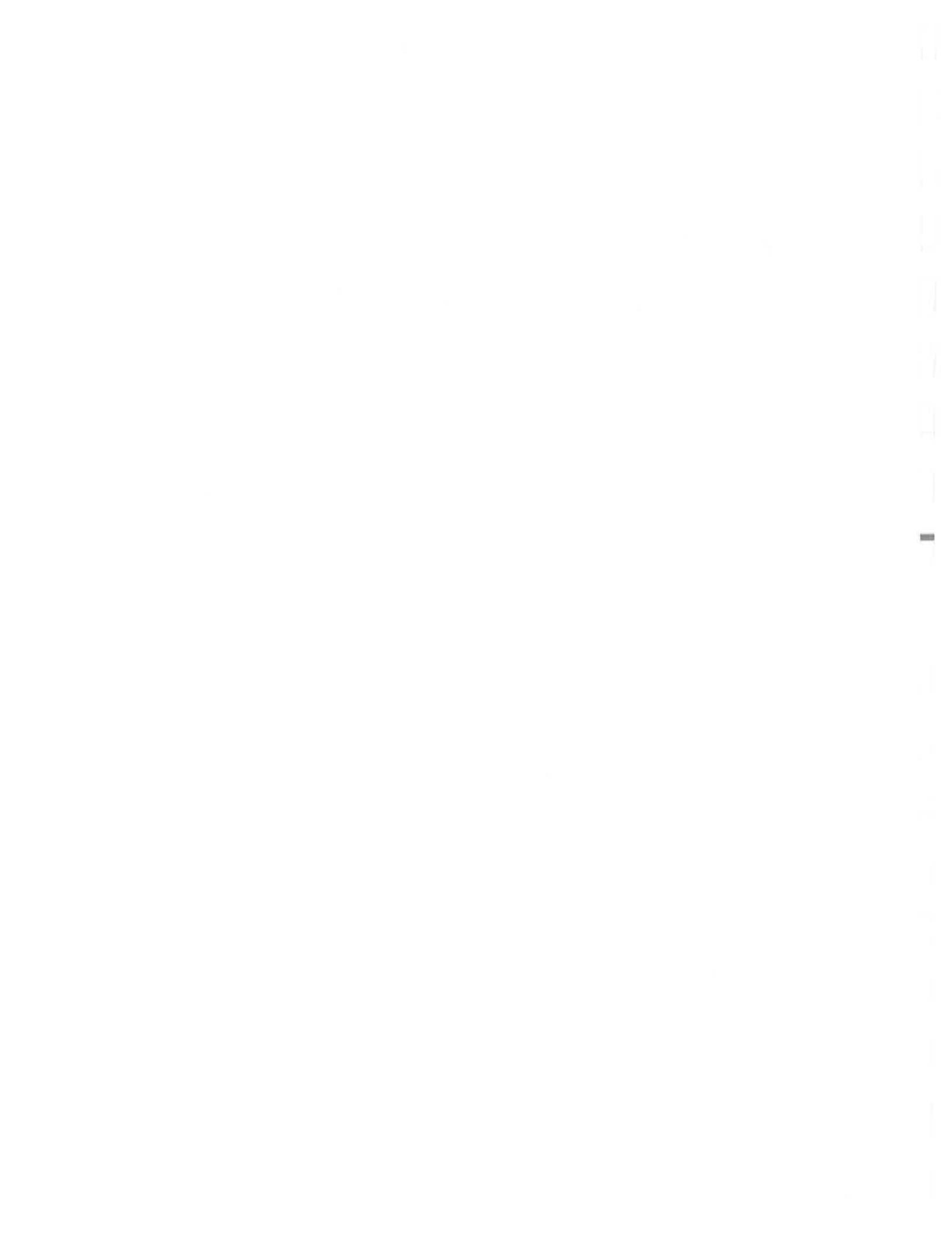
County Counsel of Solano County, California

By: Lori A. Mazzella, deputy

Dated: May 21, 2020

Note: Attach to this Agreement a certified copy of the resolution, minute order, or excerpt of the minutes of the County authorizing the execution of this Agreement.

If the Contractor is a corporation, attach to this contract a certified copy of the by-laws, resolutions, or excerpt of the minutes of a meeting of the board of directors of the corporation authorizing the person executing this Agreement to do so for the corporation.



THIS PAGE INTENTIONALLY LEFT BLANK



PERFORMANCE BOND

Bonds Executed in Four (4) Identical Originals

KNOW ALL MEN BY THESE PRESENTS,

THAT WHEREAS, the **COUNTY OF SOLANO, A POLITICAL SUBDIVISION OF THE STATE OF CALIFORNIA**, hereinafter called the "County," has awarded to Granite Rock Company as Principal, hereinafter

designated as the "Contractor," a contract for the work described as follows:

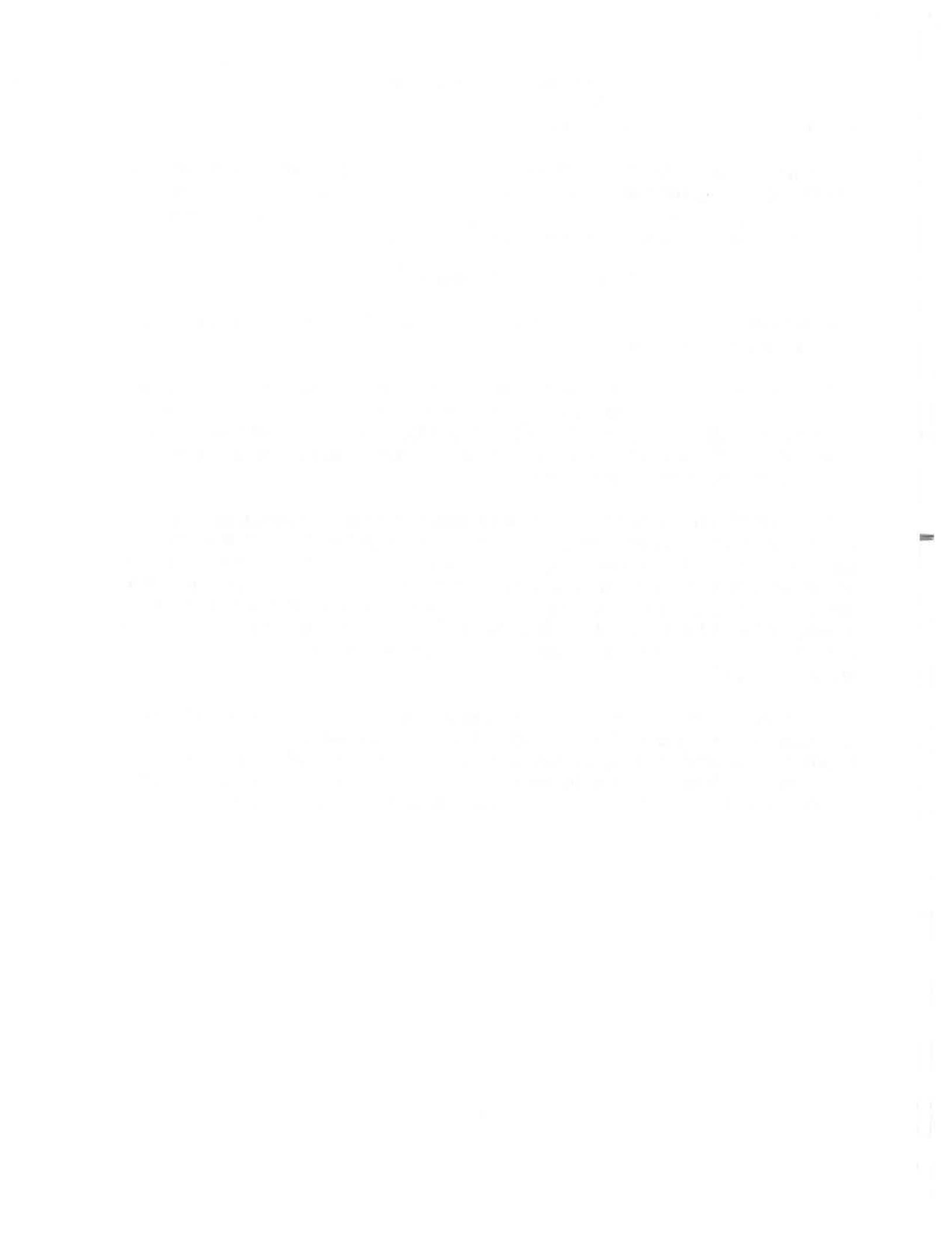
TIMM ROAD IMPROVEMENT PROJECT

AND WHEREAS, the Contractor is required to furnish a bond in connection with said contract guaranteeing the faithful performance thereof;

NOW, THEREFORE, we, the undersigned Contractor and Surety, are held and firmly bound unto the County, in the sum of One million eight hundred ninety-one thousand two hundred thirty-five and 85/100ths Dollars (\$ 1,891,235.85) for which payment, well and truly to be made, we bind ourselves, our heirs, executors and administrators, successors or assigns, jointly and severally, firmly by these presents.

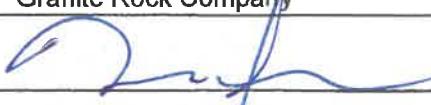
THE CONDITION of this obligation is such, that if the above bounden Contractor, his or its heirs, executors, administrators, successors or assigns, shall in all things stand to and abide by, and well and truly keep and perform the covenants, conditions and agreements in the foregoing contract and any alteration thereof made as therein provided, or his or their part to be kept and performed at the time and in the manner therein specified, and in all respects according to their true intent and meaning, and shall indemnify and save harmless the County, its officers and agents, as therein stipulated, then this obligation shall become and be null and void; otherwise, it shall be and remain in full force and effect.

PROVIDED, FURTHER, that the said Surety, for value received hereby stipulates and agrees that no change, extension of time, alteration or addition to the terms of the contract or to the work to be performed thereunder or the specifications accompanying the same shall in any way affect its obligation on this bond, and it does hereby waive notice of any such change, extension of time, alteration or addition to the terms of the contract or to the work or to the specifications.



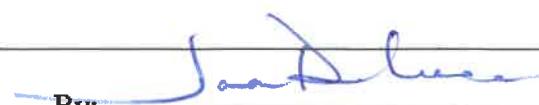
IN WITNESS WHEREOF, we have hereunto set our hands and seals on this 12th day of
May, 2020.

Granite Rock Company



By: Thomas Squeri, President & CEO
Principal (Seal)

Western Surety Company



By: Joan DeLuca
Surety (Seal)
Joan DeLuca, Attorney-in-Fact

NOTE:

- (1) Signatures of those executing for the surety must be properly acknowledged.
- (2) This bond must be in an amount equal to one hundred percent (100%) of the amount bid.
- (3) Bidders must use this form unless the surety company form is substantially the same.



CALIFORNIA ALL-PURPOSE ACKNOWLEDGMENT

CALIFORNIA ALL PURPOSE ACKNOWLEDGMENT

A notary public or other officer completing this certificate verifies only the identity of the individual who signed the document, to which this certificate is attached, and not the truthfulness, accuracy, or validity of that document.

STATE OF CALIFORNIA

}

COUNTY OF Marin

On May 12, 2020

Date

before me,

K. Holtemann

Notary

Insert Name and Title of the officer

Public, personally appeared

Joan DeLuca

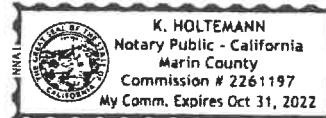
Name(s) of Signer(s)

who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

Signature: K. Holtemann



OPTIONAL

Though this section is optional, completing this information can deter alteration of the document or fraudulent attachment of this form to an unintended document.

Description of Attached Document

Title or Type of Document:

Document Date:

Number of Pages: _____ Signer(s) Other Than Named Above: _____

Capacity(ies) Claimed by Signer(s)

Signer's Name:

Signer's Name:

Corporate Officer - Title(s) _____

Corporate Officer - Title(s) _____

Partner - Limited General

Partner - Limited General

Individual Attorney In Fact

Individual Attorney In Fact

Trustee Guardian or Conservator

Trustee Guardian or Conservator

Other: _____

Other: _____

Signer is Representing: _____

Signer is Representing: _____



Western Surety Company

POWER OF ATTORNEY APPOINTING INDIVIDUAL ATTORNEY-IN-FACT

Know All Men By These Presents, That WESTERN SURETY COMPANY, a South Dakota corporation, is a duly organized and existing corporation having its principal office in the City of Sioux Falls, and State of South Dakota, and that it does by virtue of the signature and seal herein affixed hereby make, constitute and appoint

Charles R Shoemaker, Nancy L Hamilton, Roger C Dickinson, Stanley D Loar, Kelly Holtemann, Mark M Munekawa, Nerissa S Bartolome, Joan DeLuca, Yvonne Roncaglioli, Thomas E Hughes, Patrick R Diebel, Alicia Dass, Valerie Garcia, Sara Ridge, Christina Burton, Individually

of Novato and San Francisco, CA, its true and lawful Attorney(s)-in-Fact with full power and authority hereby conferred to sign, seal and execute for and on its behalf bonds, undertakings and other obligatory instruments of similar nature

- In Unlimited Amounts -

and to bind it thereby as fully and to the same extent as if such instruments were signed by a duly authorized officer of the corporation and all the acts of said Attorney, pursuant to the authority hereby given, are hereby ratified and confirmed.

This Power of Attorney is made and executed pursuant to and by authority of the By-Law printed on the reverse hereof, duly adopted, as indicated, by the shareholders of the corporation.

In Witness Whereof, WESTERN SURETY COMPANY has caused these presents to be signed by its Vice President and its corporate seal to be hereto affixed on this 6th day of February, 2020.

WESTERN SURETY COMPANY



Paul T. Bruflat, Vice President

State of South Dakota
County of Minnehaha

} ss

On this 6th day of February, 2020, before me personally came Paul T. Bruflat, to me known, who, being by me duly sworn, did depose and say: that he resides in the City of Sioux Falls, State of South Dakota; that he is the Vice President of WESTERN SURETY COMPANY described in and which executed the above instrument; that he knows the seal of said corporation; that the seal affixed to the said instrument is such corporate seal; that it was so affixed pursuant to authority given by the Board of Directors of said corporation and that he signed his name thereto pursuant to like authority, and acknowledges same to be the act and deed of said corporation.

My commission expires

June 23, 2021



J. Mohr, Notary Public

CERTIFICATE

I, L. Nelson, Assistant Secretary of WESTERN SURETY COMPANY do hereby certify that the Power of Attorney hereinabove set forth is still in force, and further certify that the By-Law of the corporation printed on the reverse hereof is still in force. In testimony whereof I have hereunto subscribed my name and affixed the seal of the said corporation this 12th day of May, 2020.

WESTERN SURETY COMPANY



L. Nelson, Assistant Secretary

Authorizing By-Law

ADOPTED BY THE SHAREHOLDERS OF WESTERN SURETY COMPANY

This Power of Attorney is made and executed pursuant to and by authority of the following By-Law duly adopted by the shareholders of the Company.

Section 7. All bonds, policies, undertakings, Powers of Attorney, or other obligations of the corporation shall be executed in the corporate name of the Company by the President, Secretary, and Assistant Secretary, Treasurer, or any Vice President, or by such other officers as the Board of Directors may authorize. The President, any Vice President, Secretary, any Assistant Secretary, or the Treasurer may appoint Attorneys in Fact or agents who shall have authority to issue bonds, policies, or undertakings in the name of the Company. The corporate seal is not necessary for the validity of any bonds, policies, undertakings, Powers of Attorney or other obligations of the corporation. The signature of any such officer and the corporate seal may be printed by facsimile.

THIS PAGE INTENTIONALLY LEFT BLANK



PAYMENT BOND
Bond Executed in Four (4) Identical Originals

KNOW ALL MEN BY THESE PRESENTS,

THAT WHEREAS, COUNTY OF SOLANO, A POLITICAL SUBDIVISION OF THE STATE OF CALIFORNIA, hereinafter called the "County," has awarded to Granite Rock Company, as Principal, hereinafter designated as the "Contractor," a contract for the work described as follows:

TIMM ROAD IMPROVEMENT PROJECT

AND, WHEREAS, the Contractor is required to furnish a bond in connection with said contract, to secure the payment of claims of laborers, mechanics, materialmen, and other persons as provided by law:

NOW, THEREFORE, we, the undersigned Contractor and surety, are held and firmly bound unto the County in the amount required by law, in the sum of One million eight hundred ninety-one thousand two hundred thirty-five and 85/100ths Dollars (\$ 1,891,235.85) for which payment well and truly to be made we bind ourselves, our heirs, executors and administrators, successors and assigns, jointly and severally, firmly by these presents.

THE CONDITION OF THIS OBLIGATION IS SUCH, that if the Contractor, his or its heirs, executors, administrators, successors or assigns, or subcontractors shall fail to pay any of the persons referred to in Civil Code section 3181, amounts due under the Unemployment Insurance Code with respect to work or labor performed by any such claimant, or amounts due the Franchise Tax Board as provided in Civil Code section 3248, that the surety of sureties herein will pay for the same, in an amount not exceeding the sum specified in this bond, otherwise the above obligation shall be void. In case suit is brought on this bond, the said surety will pay a reasonable attorney's fee to be fixed by the court.

This bond shall inure to the benefit of any of the persons referred to in Civil Code section 3181 so as to give a right of action to such persons or their assigns in any suit brought upon this bond. Any such right of action shall be subject to the provisions of Civil Code section 3267.

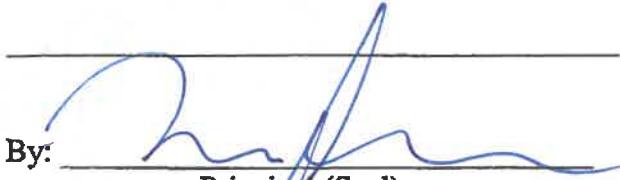
PROVIDED, FURTHER, that the said surety, for value received hereby stipulates and agrees that no change, extension of time, alteration or addition to the terms of the contract or to the work to be performed thereunder or the specifications accompanying the same shall in any way affect its obligation on this bond, and it does hereby waive notice of any such change, extension of time, alteration or addition to the terms of the contract or to the work or to the specifications.

PROVIDED, FURTHER, that no final settlement between the County and the Contractor shall abridge the right of any beneficiary hereunder, whose claim may be unsatisfied.

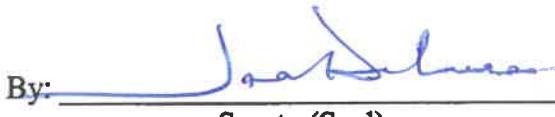
IN WITNESS WHEREOF, we have hereunto set our hands and seals on this 12th day of May 2020.

Granite Rock Company

Western Surety Company

By: 

Principal (Seal)
Thomas Squerry, President & CEO

By: 

Surety (Seal)
Joan DeLuca, Attorney-in-Fact

NOTE:

- (1) Signatures of those executing for the surety must be properly acknowledged.
- (2) This bond must be in an amount equal to one-hundred percent (100%) of the amount bid.
- (3) Bidders must use this form unless the surety company form is substantially the same.

CALIFORNIA ALL-PURPOSE ACKNOWLEDGMENT

CALIFORNIA ALL PURPOSE ACKNOWLEDGMENT

A notary public or other officer completing this certificate verifies only the identity of the individual who signed the document, to which this certificate is attached, and not the truthfulness, accuracy, or validity of that document.

STATE OF CALIFORNIA

COUNTY OF Marin

On May 12, 2020

before me,

K. Holtemann

Notary

Insert Name and Title of the Officer

Joan DeLuca

Public, personally appeared

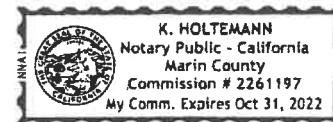
Name(s) of Signer(s)

who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

Signature: K. Holt



OPTIONAL

Though this section is optional, completing this information can deter alteration of the document or inadvertent attachment of this form to an unintended document.

Description of Attached Document

Title or Type of Document: _____ Document Date: _____

Number of Pages: _____ Signer(s) Other Than Named Above: _____

Capacity(ies) Claimed by Signer(s)

Signer's Name: _____

Corporate Officer - Title(s) _____

Partner - Limited General _____

Individual Attorney in Fact _____

Trustee Guardian or Conservator _____

Other: _____

Signer is Representing: _____

Signer's Name: _____

Corporate Officer - Title(s) _____

Partner - Limited General _____

Individual Attorney in Fact _____

Trustee Guardian or Conservator _____

Other: _____

Signer is Representing: _____



Western Surety Company

POWER OF ATTORNEY APPOINTING INDIVIDUAL ATTORNEY-IN-FACT

Know All Men By These Presents, That WESTERN SURETY COMPANY, a South Dakota corporation, is a duly organized and existing corporation having its principal office in the City of Sioux Falls, and State of South Dakota, and that it does by virtue of the signature and seal herein affixed hereby make, constitute and appoint

Charles R Shoemaker, Nancy L Hamilton, Roger C Dickinson, Stanley D Loar, Kelly Holtemann, Mark M Munekawa, Nerissa S Bartolome, Joan DeLuca, Yvonne Roncaglioli, Thomas E Hughes, Patrick R Diebel, Alicia Dass, Valerie Garcia, Sara Ridge, Christina Burton, Individually

of Novato and San Francisco, CA, its true and lawful Attorney(s)-in-Fact with full power and authority hereby conferred to sign, seal and execute for and on its behalf bonds, undertakings and other obligatory instruments of similar nature

- In Unlimited Amounts -

and to bind it thereby as fully and to the same extent as if such instruments were signed by a duly authorized officer of the corporation and all the acts of said Attorney, pursuant to the authority hereby given, are hereby ratified and confirmed.

This Power of Attorney is made and executed pursuant to and by authority of the By-Law printed on the reverse hereof, duly adopted, as indicated, by the shareholders of the corporation.

In Witness Whereof, WESTERN SURETY COMPANY has caused these presents to be signed by its Vice President and its corporate seal to be hereto affixed on this 6th day of February, 2020.

WESTERN SURETY COMPANY



Paul T. Bruflat, Vice President

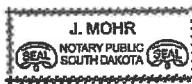
State of South Dakota
County of Minnehaha

} ss

On this 6th day of February, 2020, before me personally came Paul T. Bruflat, to me known, who, being by me duly sworn, did depose and say: that he resides in the City of Sioux Falls, State of South Dakota; that he is the Vice President of WESTERN SURETY COMPANY described in and which executed the above instrument; that he knows the seal of said corporation; that the seal affixed to the said instrument is such corporate seal; that it was so affixed pursuant to authority given by the Board of Directors of said corporation and that he signed his name thereto pursuant to like authority, and acknowledges same to be the act and deed of said corporation.

My commission expires

June 23, 2021



J. Mohr, Notary Public

CERTIFICATE

I, L. Nelson, Assistant Secretary of WESTERN SURETY COMPANY do hereby certify that the Power of Attorney hereinabove set forth is still in force, and further certify that the By-Law of the corporation printed on the reverse hereof is still in force. In testimony whereof I have hereunto subscribed my name and affixed the seal of the said corporation this 12th day of May, 2020.



WESTERN SURETY COMPANY

L. Nelson, Assistant Secretary

Authorizing By-Law

ADOPTED BY THE SHAREHOLDERS OF WESTERN SURETY COMPANY

This Power of Attorney is made and executed pursuant to and by authority of the following By-Law duly adopted by the shareholders of the Company.

Section 7. All bonds, policies, undertakings, Powers of Attorney, or other obligations of the corporation shall be executed in the corporate name of the Company by the President, Secretary, and Assistant Secretary, Treasurer, or any Vice President, or by such other officers as the Board of Directors may authorize. The President, any Vice President, Secretary, any Assistant Secretary, or the Treasurer may appoint Attorneys in Fact or agents who shall have authority to issue bonds, policies, or undertakings in the name of the Company. The corporate seal is not necessary for the validity of any bonds, policies, undertakings, Powers of Attorney or other obligations of the corporation. The signature of any such officer and the corporate seal may be printed by facsimile.

THIS PAGE INTENTIONALLY LEFT BLANK

STATE GENERAL PREVAILING WAGE RATES

The State Prevailing Wage Rates are available for review at the California Department of Industrial Relations Internet Web Site at the following location:

<http://www.dir.ca.gov>

See Important Special Notice in this bid document.

THIS PAGE INTENTIONALLY LEFT BLANK

**COUNTY OF SOLANO
STATE OF CALIFORNIA**

**TIMM ROAD IMPROVEMENT PROJECT
DIVISION I GENERAL PROVISIONS
1 GENERAL**

1-1.01 GENERAL

The work described shall be done in accordance with the Caltrans Standard Specifications 2018, Revised Caltrans Standard Specifications 2018 Dated 10/18/2019, and the Caltrans Standard Plans 2018, insofar as the same may apply and in accordance with the following Special Provisions.

The Caltrans Standard Specifications and Standard Plans are made a part of the Contract with the County of Solano providing the following modifications unless the Special Provisions indicate that they amend or replace the Standard Specifications, they shall be deemed to supplement.

Wherever the Standard Specifications refer to requirements, conditions, provisions, and laws that are applicable to the State of California rather than County governments, said references shall be construed as references to corresponding requirements, conditions, provisions, and laws, which are applicable to the and the County of Solano.

County: County of Solano/Solano County

Department: Dept. of Resource Management, Solano County

Director: Director of Resource Management, Solano County

Engineer: Engineering Manager or other designated representative

State: Includes County of Solano, a political subdivision of the State

State Contract Act: All applicable statutes and laws pertaining to the award and execution of construction contracts by the County, including those set forth in Section 3 of these Special Provisions, and any other sections which may pertain.

Saturday, Sunday, Holiday and Evening Work

No work shall be done on Saturdays, Sundays, County and State holidays or during hours of darkness, except such work as is necessary for the proper care and protection of work already performed, or except in a case of an emergency, and in any case, only with the written permission of the Engineer.

Should unauthorized work be performed on a Saturday, Sunday, County holiday or during hours of darkness, the Contractor shall pay Solano County a one thousand dollar (\$1,000) penalty for each day or portion of a day on which such work is performed.

County holidays are defined as follows: New Year's Day, Martin Luther King's Birthday, Lincoln's Birthday, President's Day, Cesar Chavez Day, Memorial Day, Independence Day, Labor Day, Columbus Day, Veteran's Day, Thanksgiving Day and Day After Thanksgiving Day, and Christmas Day.

2 BIDDING

2-1.01 GENERAL

The bidder's attention is directed to the provisions in Section 2, "Bidding" of the Standard Specifications and these Special Provisions for the requirements and conditions which he must observe in the preparation of the bid form and the submission of the bid.

Each bidder shall be licensed by the time of award of contract in accordance with the provisions of the Contractor's License Law as contained in Chapter 9, Division 3 of the Business and Professions Code (commencing with §7000), and any acts amendatory thereof, and shall be skilled and regularly engaged in the general class or type of work called for under these contract documents. A statement setting forth his experience and business standing shall be submitted by each bidder on the form provided herewith. The Contractor shall possess a Class A license at the time the contract is awarded.

In addition to the subcontractors required to be listed in conformance with Section 2-1.33C, "Subcontractor List," of the Standard Specifications, each bid shall have listed therein the portion of work that will be done by each subcontractor listed. A sheet for listing the subcontractors is included in the bid. **NOTE:** Contractor shall signify if a Subcontractor will be performing only a portion of a contract bid item by placing the word "Partial" next to the Subcontractor's name.

The Contractor, sub recipient or subcontractor shall not discriminate on the basis of race, color, national origin, or sex in the performance of this contract. The Contractor shall carry out applicable requirements of 49 CFR Part 26.5 in the award and administration of DOT assisted contracts. Failure by the Contractor to carry out these requirements is a material breach of this contract, which may result in the termination of this contract or such other remedy as the recipient deems appropriate. Each subcontract signed by the bidder must include this assurance.

In conformance with Public Contract Code section 7106, a Noncollusion Affidavit is included in the bid. Signing the bid shall also constitute signature of the Noncollusion Affidavit.

Failure of the bidder to fulfill the requirements of the Special Provisions for submittals required to be furnished after the bid opening, including but not limited to escrowed bid documents, where applicable, may subject the bidder to a determination of the bidder's responsibility in the event it is the apparent low bidder on a future public works contract.

2-1.07 JOB SITE AND DOCUMENT EXAMINATION

The bidder shall examine carefully the site of the work contemplated, the plans and specifications, and the bid and contract forms. The submission of a bid shall be conclusive evidence that the bidder has investigated and is satisfied as to the general and local conditions to be encountered, as to the character, quality and scope of work to be performed, the quantities of materials to be

furnished and as to the requirements of the bid, plans, specifications and the contract.

The submission of a bid shall also be conclusive evidence that the bidder is satisfied as to the character, quality and quantity of surface and subsurface materials or obstacles to be encountered insofar as this information was reasonably ascertainable from an inspection of the site and the records of exploratory work done by the County as shown in the bid documents, as well as from the plans and specifications made a part of the contract.

Where the County has made investigations of site conditions including subsurface conditions in areas where work is to be performed under the contract, or in other areas, some of which may constitute possible local material sources, bidders or contractors may, upon written request, inspect the records of the County as to those investigations subject to and upon the conditions hereinafter set forth.

Where there has been prior construction by the County or other public agencies within the project limits, records of the prior construction that are currently in the possession of the County and which have been used by, or are known to, the designers and administrators of the project will be made available for inspection by bidders or contractors, upon written request, subject to the conditions hereinafter set forth. The records may include, but are not limited to, as-built drawings, design calculations, foundation and site studies, project reports and other data assembled in connection with the investigation, design, construction and maintenance of the prior projects.

Inspection of the records of investigations and project records may be made at the office of the County.

When a log of test borings or other record of geotechnical data obtained by the County's investigation of surface and subsurface conditions is included with the contract plans, it is furnished for the bidders' or Contractor's information and its use shall be subject to the conditions and limitations set forth in this Section 2-1.03.

When cross sections are not included with the plans, but are available, bidders or contractors may inspect the cross sections and obtain copies for their use, at their expense.

When cross sections are included with the contract plans, it is expressly understood and agreed that the cross sections do not constitute part of the contract, do not necessarily represent actual site conditions or show location, character, dimensions and details of work to be performed, and are included in the plans only for the convenience of bidders and their use is subject to the conditions and limitations set forth in this Section 2-1.03.

The availability or use of information described in this Section 2-1.03 is not to be construed in any way as a waiver of the provisions of the first paragraph in this Section 2-1.03 and bidders and contractors are cautioned to make independent investigations and examinations as they deem necessary to be satisfied as to conditions to be encountered in the performance of the work and, with respect to possible local material sources, the quality and quantity of material available from the property and the type and extent of processing that may be required in order to produce material conforming to the requirements of the specifications.

The County assumes no responsibility for conclusions or interpretations made by a bidder or contractor based on the information or data made available by the County. The County does not assume responsibility for representation made by its officers or agents before the execution of the contractor concerning surface or subsurface conditions, unless that representation is expressly stated in the contract.

No conclusions or interpretations made by a bidder or contractor from the information and data made available by the County will relieve a bidder or contractor from properly fulfilling the terms of the contract.

Construction surveys shall be furnished by the County in accordance with the California Department of Transportation Surveys Manual.

Attention is directed to Section 12.1-4, "Restaking," of the Survey Manual.

2-1.10 SUBCONTRACTOR LIST

Each bid shall have listed therein the name and address of each subcontractor to whom the bidder proposes to subcontract portions of the work in the amount of $\frac{1}{2}$ of one percent (%) of his total bid or \$10,000, whichever is greater, in accordance with the Subletting and Subcontracting Fair Practices Act, commencing with section 4100 of the Public Contract Code. The bidder's attention is directed to other provisions of said Act related to the imposition of penalties for a failure to observe its provisions by using unauthorized subcontractors or by making unauthorized substitutions.

The required form for listing of subcontractors is included in the bid book and is required to be completed and submitted with the bid.

Solano County's Bidder's List of Subcontractors is required to be completed and submitted by the top three apparent low bidders and is due within 48 hours after bid opening. At the Contractor's option this form may be submitted with the bid.

2-1.34 BIDDER'S SECURITY

Bidder's security required under this article shall be made payable to the County of Solano.

3 CONTRACT AWARD AND EXECUTION

3-1.01 GENERAL

The award of the contract to the lowest responsible bidder whose bid complies with all the requirements prescribed.

The contract shall be executed by the successful bidder and shall be returned, together with the contract bonds, to the Agency so that it is received within 10 days, not including Saturdays, Sundays and legal holidays, after the bidder has received the contract for execution. Failure to do so shall be just cause for forfeiture of the bidder's security and bid submittal.

The executed contract documents shall be delivered to the following address:

Solano County Department of Resource Management
Attn: Matt Tuggle
675 Texas Street, Suite 5500
Fairfield, CA 94533

3-1.03 CONTRACTOR REGISTRATION

No contractor or subcontractor may be awarded a contract for public work on a public works project unless registered with the Department of Industrial Relations pursuant to Labor Code section 1725.5.

3-1.05 CONTRACT BONDS (PUB CONT CODE §§ 10221 AND 10222)

The Contractor shall provide, at the time of the execution of the agreement or contract for work, at his own expense, a surety bond in an amount equal to at least one hundred percent (100%) of the contract price as security for the faithful performance of said agreement. Contractor shall also provide, at the time of the execution of the agreement or contract for work, and at his own expense, a separate surety bond in the amount equal to at least one hundred percent (100%) of the contract price as security for the payment of all persons performing and furnishing materials in connection with said agreement. Sureties on each of said bonds shall be satisfactory to the County. Attention is directed to Section 3-1.05, "Contract Bonds (Pub Cont Code §§ 10221 and 10222)" of the Standard Specifications.

3-1.18 CONTRACT EXECUTION

Four (4) sets of the contract shall be signed by the successful bidder and returned along with four (4) sets of each of the bonds and insurance certificates, as provided within ten days, not including Saturdays, Sundays or legal holidays after the bidder has received notice from the Director of Resource Management that the contract has been awarded and is ready for signature. No bid shall be considered binding upon the County until such execution of the contract. Further, if the successful bidder is a corporation, a certified copy of the by-laws, Resolution, or Minute Order of the Board of Directors of the Corporation shall be attached to each of the four (4) sets of the contract specifying the authority of the person executing the contract to do so.

5 CONTROL OF WORK

5-1.02 CONTRACT COMPONENTS

The Revised Caltrans Standard Specifications 2018 Dated 10/18/2019 included with these special provisions are considered part of the contract following the governing ranking order as specified in the standard specifications. Subsequent revisions are not part of the contract.

Supplemental project information shall not be considered part of the contract but is provided for informational purposes only.

5-1.13 SUBCONTRACTING

5-1.13A General

The Contractor shall perform work equaling at least 50% of the value of the original total bid with the Contractor's own employees and equipment, owned or rented, with or without operators.

5-1.26 CONSTRUCTION SURVEYS

County will provide survey for Contractor requested Survey Staking. Survey requests shall be made at least 48 hrs prior use by the Contractor.

5-1.32 AREAS FOR USE

The highway right of way shall be used only for purposes that are necessary to perform the required work. The Contractor shall not occupy the right of way, or allow others to occupy the right of way, for purposes which are not necessary to perform the required work.

There are no County-owned parcels adjacent to the right of way for the exclusive use of the Contractor within the contract limits. The Contractor shall secure at his own expense any other area required for plant sites, storage of equipment or materials, or for other purposes.

5-1.43E Alternative Dispute Resolution

5-1.43E(1) General

Section 5-1.43E in its entirety does not apply to this contract.

5-1.46 FINAL INSPECTION AND CONTRACT ACCEPTANCE

When you complete the work, request the Engineer's final inspection. If the Engineer determines that the work is complete, the Engineer will accept the work, and recommend Contract Acceptance by the Department. Immediately after recommendation of Contract Acceptance, you are relieved from:

1. Maintenance and protection duties
2. Responsibility for injury to persons or property or damage

Formal Contract Acceptance is by order of the Board of Supervisors of the County of Solano of an entire Contract which has been completed in all respects in accordance with the Plans and Specifications and any modifications thereof previously approved.

6 CONTROL OF MATERIALS

6-2 QUALITY ASSURANCE

6-2.01 GENERAL

6-2.01C Authorized Materials List

Contractor must also refer to Caltrans' *Authorized Materials List* at <http://www.dot.ca.gov/aml/>.

The Department maintains the following list of Prequalified and Tested Signing and Delineation Materials. The Engineer shall not be precluded from sampling and testing products on the list of Prequalified and Tested Signing and Delineation Materials.

The manufacturer of products on the list of Prequalified and Tested Signing and Delineation Materials shall furnish the Engineer a Certificate of Compliance in conformance with the provisions in Section 6-3.05E, "Certificates of Compliance," of the Standard Specifications for each type of traffic product supplied.

For those categories of materials included on the list of Prequalified and Tested Signing and Delineation Materials, only those products shown within the listing may be used in the work. Other categories of products, not included on the list of Prequalified and Tested Signing and Delineation Materials, may be used in the work provided they conform to the requirements of the Standard Specifications.

Materials and products may be added to the list of Prequalified and Tested Signing and Delineation Materials if the manufacturer submits a New Product Information Form to the New Product Coordinator at the Transportation Laboratory. Upon a Departmental request for samples, sufficient samples shall be submitted to permit performance of required tests. Approval of materials or products will depend upon compliance with the specifications and tests the Department may elect to perform.

PAVEMENT MARKERS, PERMANENT TYPE

Retroreflective With Abrasion Resistant Surface (ARS) (traffic direction x marker width)

1. Apex, Model 921AR (4" x 4") and 828AR (3.1x4.5)
2. Ennis-Flint, Models 911 (4" x 4") and C80FH (3.1" x 4.5")
3. Ray-O-Lite, Models "AA" ARC II (4" x 4") and ARC Round Shoulder (4" x 4")
4. 3M Series 290 (3.5" x 4")
5. 3M Series 290 PSA
6. Glowlite, Inc Model 988AR (4" x 4")

Retroreflective With Abrasion Resistant Surface (ARS) (for recessed applications only)

1. Ray-O-Lite, Model 2002 (2" x 4.6")
2. Ray-O-Lite, Model 2004 (2" x 4")*
3. Ennis-Flint, Model 201.C40

*For use only in 4.5 inch wide (older) recessed slots

Non-Reflective, 4-inch Round

1. Apex Universal (Ceramic)

2. Apex Universal, Models 929 (ABS) and 929PP (Polypropylene)
3. Glowlite, Inc. (Ceramic) and PP (Polypropylene)
4. Hi-Way Safety, Inc., Models P20-2000W and 2001Y (ABS)
5. Interstate Sales, "Diamond Back" (Polypropylene)
6. Novabrite Models Cdot (White) Cdot-y (Yellow), Ceramic
7. Novabrite Models Pdot-w (White) Pdot-y (Yellow), Polypropylene
8. Three D Traffic Works TD10000 (ABS), TD10500 (Polypropylene)
9. Ray-O-Lite, Ray-O-Dot (Polypropylene)

PAVEMENT MARKERS, TEMPORARY TYPE

Temporary Markers For Long Term Day/Night Use (180 days or less)

1. Vega Molded Products "Temporary Road Marker" (3" x 4")
2. Pexco LLC, Halftrack model 25, 26 and 35

Temporary Markers For Short Term Day/Night Use (14 days or less)

(For seal coat or chip seal applications, clear protective covers are required)

1. Apex Universal, Model 932, 932HH
2. Pexco LLC, Models T.O.M., T.R.P.M., and "HH" (High Heat)
3. Hi-Way Safety, Inc., Model 1280/1281
4. Glowlite, Inc., Model 932

STRIPING AND PAVEMENT MARKING MATERIAL

Permanent Traffic Striping and Pavement Marking Tape

1. Advanced Traffic Marking, Series 300 and 400
2. Brite-Line, Series 1000
3. Brite-Line, "DeltaLine XRP"
4. Swarco Industries, "Director 60"
5. 3M, "Stamark" Series 380 and 270 ES

Temporary (Removable) Striping and Pavement Marking Tape (180 days or less)

1. Advanced Traffic Marking, Series 200
2. Brite-Line, "Series 100", "Deltaline TWR"
3. Garlock Rubber Technologies, Series 2000
4. Tape 4, Aztec, Grade 102
5. Swarco Industries, "Director-2", "Director 2-Wet Reflective"
6. Trelleborg Industries, R140 Series
7. 3M Series 710
8. Advanced Traffic Marking Black "Hide-A-Line"
(Black Tape: for use only on Hot mix asphalt surfaces)
9. Brite-Line "BTR" Black Removable Tape
(Black Tape: for use only on Hot mix asphalt surfaces)
10. Trelleborg Industries, RB-140
(Black Tape: for use only on Hot mix asphalt surfaces)

Preformed Thermoplastic (Heated in place)

1. Ennis-Flint "Hot Tape"
2. Ennis-Flint "Premark"
3. Ennis-Flint, "Flametape"
4. Alta Traffic Solutions, "Alta All-Season", Series 100 (White Only)
5. Swarco Preformed Thermoplastic, (White Only)
6. Ozark Materials, Preformed Thermoplastic
7. Potters Industries, "VisiTape"
8. Geveko Markings, "Optamark"
- Ceramic Surfacing Laminate, 6" x 6"
1. Highway Ceramics, Inc.

CLASS 1 DELINEATORS

One Piece Driveable Flexible Type, 66-inch

1. Pexco LLC, "Flexi-Guide Models 400 and 566"
2. Carsonite, Curve-Flex CFRM-400
3. Carsonite, Roadmarker CRM-375
4. FlexStake, Model 654 TM
5. GreenLine Model CGD1-66
6. Ridan Composites LLC, Del-Mark Post

Special Use Type, 66-inch

1. Pexco LLC, Model FG 560 (with U-Channel base), FG 300 UR (with 2-inch square anchor)
2. Carsonite, "Survivor" (with 18-inch U-Channel base)
3. Carsonite, Roadmarker CRM-375 (with 18-inch U-Channel base)
4. FlexStake, Model 604
5. GreenLine Model CGD (with 18-inch U-Channel base)
6. Impact Recovery Model D36, with #105 Driveable Base
7. Safe-Hit with 8-inch pavement anchor (SH248-GP1)
8. Safe-Hit with 15-inch soil anchor (SH248-GP2) and with 18-inch soil anchor (SH248-GP3)
9. Safe-Hit RT 360 Post with Soil Mount Anchor (GPS)
10. Safe-Hit SQR-LOC, SH248SQR-12
11. Shur-Tite Products, Shur-Flex Drivable
12. Three D Traffic Works, Earthflex TD5500

Surface Mount Type, 48-inch

1. Bent Manufacturing Company, Masterflex Model MFEX 180-48
2. Carsonite, "Channelizer"
3. FlexStake, Models 704, 754 TM, and EB4
4. Impact Recovery Model D48, with #101 Fixed (Surface-Mount) Base
5. Three D Traffic Works "Channelflex" ID No. 522248W
6. Flexible Marker Support, Flexistiff Model C-9484
7. Safe-Hit, SH 248 SMR
8. New Direction Manufacturing, Model FTSM 48
9. Hi-way Safety, Inc, Model CFUR48

10. Shur-Tite Products, Shur-Flex
11. Pexco LLC, Flexi-Guide Models FG348PE, FG348UR and FG348EFX

CHANNELIZERS

Surface Mount Type, 36-inch

1. Bent Manufacturing Company, Masterflex Models MF-360-36 (Round) MF-180-36 (Flat) and MFEX 180—36
2. Pexco LLC, Flexi-Guide Models FG336PE, FG336UR and FG336EFX, City Post & City Post SM
3. Carsonite, "Super Duck" (Round SDR-336)
4. Carsonite, Model SDCF03601MB "Channelizer"
5. FlexStake, Models 703, 753 TM, and EB3
6. GreenLine, Model SMD-36
7. Hi-way Safety, Inc. "Channel Guide Channelizer" Model CGC36, CFUR36
8. Impact Recovery Model D36, with #101 Fixed (Surface-Mount) Base
9. Safe-Hit, Guide Post, Model SH236SMA and Dura-Post, Model SHL36SMA
10. Three D Traffic Works "Boomerang" 5200 Series
11. Flexible Marker Support, Flexistiff Model C-9484-36
12. Shur-Tite Products, Shur-Flex
13. New Direction Manufacturing, Model FTSM36

Lane Separation System

1. Pexco LLC, "Flexi-Guide (FG) 300 Curb System"
2. Qwick Kurb, "Klemmfix Guide System"
3. Dura-Curb System
4. Tuff Curb
5. FG 300 Turnpike Curb
6. Shur-Tite Products, SHUR-Curb, Model No. SF0200

CONICAL DELINEATORS, 42-inch

(For 28-inch Traffic Cones, see Standard Specifications)

1. Bent Manufacturing Company "T-Top", TDSC Series
2. Plastic Safety Systems "Navigator-42"
3. TrafFix Devices "Grabber"
4. Three D Traffic Works "Ringtop" TD7000, ID No. 742143
5. Three D Traffic Works, TD7500
6. Work Area Protection Corp. C-42
7. Custom-Pak 4600 (Part No. 93005-0001)
8. Plasticade, Navicade, 650 RI

OBJECT MARKERS

Type "K", 18-inch

1. Pexco LLC, Model FG318PE
2. Carsonite, Model SMD 615

3. FlexStake, Model 701 KM
4. Safe-Hit, Model SH718SMA
5. Impact Recovery Systems, Model 282-K
6. Hi-way Safety, Inc, Model CFURK
7. Shur-Tite Products, Shur-Flex Driveable

Type "Q" Object Markers, 24-inch

1. Bent Manufacturing "Masterflex" Model MF-360-24
2. Pexco LLC, Model FG324PE
3. Carsonite, "Channelizer"
4. FlexStake, Model 701KM
5. Safe-Hit, Models SH824SMA_WA and SH824GP3_WA
6. Three D Traffic Works ID No. 531702W and TD 5200
7. Three D Traffic Works ID No. 520896W
8. Safe-Hit, Dura-Post SHLQ-24"
9. Flexible Marker Support, IMC 9484-24
10. Impact Recovery Systems, Model 282 -Q
11. Hi-way Safety, Inc, Model CFURQ

**CONCRETE BARRIER MARKERS AND
TEMPORARY RAILING (TYPE K) REFLECTORS**

Impactable Type

1. ARTUK, "FB"
2. Pexco LLC, Models PCB-M-12 and PCB-M-T12, PCB-M 912, Hi Viz Flex Tab
3. Duraflex Corp., "Flexx 2020" and "Electriflexx"
4. Hi-Way Safety, Inc., Model GMKRM100
5. Plastic Safety Systems "BAM" Models OM-BARR and OM-BWAR
6. Three D Traffic Works "Roadguide" Model TD 9300
7. K-Cone Industries K-Cone and Klip Model 120T/K-Cone Model 1200T,
8. Retroflex, RF3N1

Non-Impactable Type

1. ARTUK, JD Series
2. Plastic Safety Systems "BAM" Models OM-BITARW and OM-BITARA
3. Vega Molded Products, Models GBM and JD
4. Plastic Vacuum Forming, "Cap-It C400"
5. Irwin Hodson Co., Barrier Traffic Reflector 5 and A Shape HTR

METAL BEAM GUARD RAIL POST MARKERS

(For use to the left of traffic)

1. Pexco LLC, "Mini" (3" x 10"), I-Flex
2. Creative Building Products, "Dura-Bull, Model 11201"
3. Duraflex Corp., "Railrider"
4. Plastic Vacuum Forming, "Cap-It C300"
5. Irwin Hodson Co., Barrier Traffic Reflector

CONCRETE BARRIER DELINEATORS, 16-inch

(For use to the right of traffic)

1. Pexco LLC, Model PCBM T-16
2. Safe-Hit, Model SH216RBM
3. Three D Traffic Works "Roadguide" Model 9400

CONCRETE BARRIER-MOUNTED MINI-DRUM (10" x 14" x 22")

1. Stinson Equipment Company "SaddleMarker"

GUARD RAILING DELINEATOR

(Place top of reflective element at 48 inches above plane of roadway)

Wood Post Type, 27-inch

1. Pexco LLC, FG 427 and FG 527
2. Carsonite, Model 427
3. FlexStake, Model 102 GR
4. GreenLine GRD 27
5. Safe-Hit, Model SH227GRD
6. Three D Traffic Works "Guardflex" TD9100
7. New Directions Mfg, NDM27
8. Shur-Tite Products, Shur-Tite Flat Mount
9. Glasforms, Hiway-Flex, GR-27-00
10. Impact Recovery Systems, 200-GRP

Barrier, Guardrail Visibility Enhancement

1. UltraGuard Safety System, Potters Industries, Inc.
2. Worldwide Safety and Irwin Hodson, Monarch Butterfly Reflective Device (MBG only)
3. 3M, Linear Delineation System, Series 340
4. Pexco LLC, Butterfly-Style Glue-on (MGB only)

Steel Post Type

1. Carsonite, Model CFGR-327

RETROREFLECTIVE SHEETING

Channelizers, Barrier Markers, and Delineators

1. Avery Dennison T-6500 Series, (For rigid substrate devices only)
2. Avery Dennison WR-7100 Series and WR-6100 Series
3. Nippon Carbide Industries, Flexible Ultralite Grade (ULG) II
5. Orafol, AC-1000 Acrylic
6. Orafol, AP-1000 Metalized Polyester
7. Orafol, Conformalight, AR-1000 Abrasion Resistant Coating
8. 3M, High Intensity, Series 3310, Series 3910 and 3914

Traffic Cones, 4-inch and 6-inch Sleeves

1. Nippon Carbide Industries, Flexible Ultralite Grade (ULG) II
2. Orafol, Vinyl, "Conformalight", C85
3. 3M Series 3840, Series 3340
4. Avery Dennison S-9000C

Drums

1. Avery Dennison WR-6100 series
2. Nippon Carbide Industries, Flexible Ultralite Grade (ULG) II
3. Orafol, "Conformalight", "Super High Intensity" or "High Impact Drum Sheeting"
4. 3M Series 3810, Series 3310, Series 3910 and 3914

Barricade Sheeting:

ASTM D 4956 Type I,

1. Nippon Carbide Industries, CN8117
2. Avery Dennison, W 1100 series
3. 3M Series CW 44

Type II

4. Avery Dennison, W-2100 Series

Type III

5. Aura Optical Systems, Aura 150

Type IV

6. 3M Series 3334/3336

Vertical Clearance Signs: Structure Mounted

1. 3M Model 4081, Diamond Grade DG3, Fluorescent Yellow

Signs: Type II, Medium-High-Intensity (Typically Enclosed Lens, Glass-Bead Element)

1. Avery Dennison, T-2500 Series
2. Nippon Carbide Industries, Nikkalite 18000

Signs: Type III, High-Intensity (Typically Encapsulated Glass-Bead Element)

1. Avery Dennison, T-5500A and T-6500 Series
2. Nippon Carbide Industries, Nikkalite Brand Ultralite Grade II
3. 3M 3870 and 3930 Series
4. Changzhou Hua R Sheng, Series TM 1200
5. Orafol, Oralite Series 5800

Signs: Type IV, High-Intensity (Typically Unmetallized Microprismatic Element)

1. Avery Dennison, T-6500 Series
2. Nippon Carbide Industries, Crystal Grade, 94000 Series
3. Nippon Carbide Industries, Model No. 94847 Fluorescent Orange
4. 3M Series 3930 and Series 3924S
5. Orafol, Oralite Series 5900 and Series 5930 Fluorescent Orange

Signs: Type VI, Elastomeric (Roll-Up) High-Intensity, without Adhesive

1. Avery Dennison, WU-6014
2. Novabrite LLC, "Econobrite"
3. Orafol "Vinyl"
4. Orafol "SuperBright"
5. Orafol "Marathon"
6. 3M Series RS20, RS60, RS64I

Signs: Type VIII, Super-High-Intensity (Typically Unmetallized Microprismatic Element)

1. Avery Dennison, T-7500 Series
2. Avery Dennison, T-7511 Fluorescent Yellow
3. Avery Dennison, T-7513 Fluorescent Yellow Green
4. Avery Dennison, W-7514 Fluorescent Orange
5. Nippon Carbide Industries, Nikkalite Crystal Grade Series 92800
6. Nippon Carbide Industries, Nikkalite Crystal Grade Model 92847 Fluorescent Orange
7. Nippon Carbide Industries, Nikkalite Crystal Grade Model 92844 Fluorescent Yellow/Green
8. 3M Series 3940
9. 3M Series 3924S Fluorescent Orange
10. 3M Series 3921 Fluorescent Yellow
11. 3M Series 3923 Fluorescent Yellow Green

Signs: Type IX, Very-High-Intensity (Typically Unmetallized Microprismatic Element)

1. 3M VIP Series 3981 Diamond Grade Fluorescent Yellow
2. 3M VIP Series 3983 Diamond Grade Fluorescent Yellow/Green
3. 3M VIP Series 3990 Diamond Grade
4. Avery Dennison T-9500 Series
5. Avery Dennison, T9513, Fluorescent Yellow Green
6. Avery Dennison, W9514, Fluorescent Orange
7. Avery Dennison, T-9511 Fluorescent Yellow
8. Orafol, Oralite 5930, Fluorescent Orange

Signs: Type XI, Very High Intensity (Typically Unmetallized Microprismatic Element)

- 1 3M Diamond Grade, DG3, Series 4000
2. 3M Diamond Grade, DG3, Series 4081, Fluorescent Yellow
3. 3M Diamond Grade, DG3, Series 4083, Fluorescent Yellow/Green
4. 3M Diamond Grade, DG3, Series 4084, Fluorescent Orange
5. Avery Dennison, OmniCube, T-11500 Series
6. Avery Dennison, OmniCube, T-11511, Fluorescent Yellow
7. Avery Dennison, OmniCube, T-11513, Fluorescent Yellow Green
8. Avery Dennison, OmniCube, W-11514 Fluorescent Orange

SPECIALTY SIGNS

1. Orafol "Endurance" Work Zone Sign (with Semi-Rigid Plastic Substrate)

ALTERNATIVE SIGN SUBSTRATES

Fiberglass Reinforced Plastic (FRP) and Expanded Foam PVC

1. Fiber-Brite (FRP)
2. Sequentia, "Polyplate" (FRP)
3. Inteplast Group "InteCel" (0.5 inch for Post-Mounted CZ Signs, 48-inch or less)(PVC)
4. EcoStrate Sign, Model Traffic 025

Aluminum Composite, Temporary Construction Signs and Permanent Signs up to 4 foot, 7 Inches

1. Alcan Composites "Dibond Material, 80 mils"
2. Mitsubishi Chemical America, Alpolic 350
3. Bone Safety Signs, Bone Light ACM (temporary construction signs only)
4. Kommerling, USA, KomAlu 3 mm

7 LEGAL RELATIONS AND RESPONSIBILITY TO THE PUBLIC

7-1.01 GENERAL

You must notify the County of weekly safety meetings 48 hours in advance and allow for County inspectors to attend the meetings.

7-1.03 PUBLIC CONVENIENCE

Attention is directed to Sections 7-1.03, "Public Convenience," 7-1.04, "Public Safety," and 12, "Temporary Traffic Control," of the Standard Specifications and to the section entitled Public Safety elsewhere in these Special Provisions. Nothing in these Special Provisions shall be construed as relieving the Contractor from his responsibility as provided in said Sections 7-1.03, 7-1.04, and 12 Temporary Traffic Controls.

7-1.04 PUBLIC SAFETY

The Contractor shall install temporary railing (Type K) between a lane open to public traffic and an excavation, obstacle, or storage area when the following conditions exist:

1. Excavations—The near edge of the excavation is 12 feet or less from the edge of the lane, except:
 - a. Excavations covered with sheet steel or concrete covers of adequate thickness to prevent accidental entry by traffic or the public.
 - b. Excavations less than one foot deep.
 - c. Trenches less than one foot deep.
 - d. Excavations parallel to the lane for the purpose of pavement widening or reconstruction. Excavations which are limited to 2" vertical, outside of the existing traveled way may be left overnight, but must be filled to grade the following day.
 - e. Excavations in side slopes, where the slope is steeper than 4:1 (horizontal:vertical).

- f. Excavations protected by existing barrier or railing.

All excavations within the traveled way must be made flush with the existing surface prior to opening a closure. Edgeline obliterated during widening must be replaced with temporary delineation and maintained until a new surface treatment is installed.

2. Temporarily Unprotected Permanent Obstacles—The work includes the installation of a fixed obstacle together with a protective system, such as sign structure together with protective railing, and the Contractor elects to install the obstacle prior to installing the protective system; or the Contractor, for the Contractor's convenience and with permission of the Engineer, removes a portion of an existing protective railing at an obstacle and does not replace such railing complete in place during the same day.
3. Storage Area—Material or equipment is stored within 12 feet of the lane and the storage is not otherwise prohibited by the provisions of the Standard Specifications and these Special Provisions.

The approach end of temporary railing (Type K), installed in conformance with the provisions in this Section, "Public Safety" and in Section 7-1.04, "Public Safety" of the Standard Specifications, shall be offset a minimum of 15 feet from the edge of the traffic lane open to public traffic. The temporary railing shall be installed on a skew toward the edge of the traffic lane of not more than one foot transversely to 10 feet longitudinally with respect to the edge of the traffic lane. If the 15 foot minimum offset cannot be achieved, the temporary railing shall be installed on the 10 to 1 skew to obtain the maximum available offset between the approach end of the railing and the edge of the traffic lane, and an array of temporary crash cushion modules shall be installed at the approach end of the temporary railing.

Except for installing, maintaining and removing traffic control devices, whenever work is performed or equipment is operated in the following work areas, the Contractor shall close the adjacent traffic lane unless otherwise provided in the Standard Specifications and these Special Provisions:

Approach Speed of Public Traffic (Posted Limit)	Work Areas
Over 45 Miles Per Hour	Within 6 feet of a traffic lane but not on a traffic lane
35 to 45 Miles Per Hour	Within 3 feet of a traffic lane but not on a traffic lane

The lane closure provisions of this section shall not apply if the work area is protected by a permanent or temporary railing or barrier.

When traffic cones or delineators are used to delineate a temporary edge of a traffic lane, the line of cones or delineators shall be considered to be the edge of the traffic lane, however, the Contractor shall not reduce the width of an existing lane to less than 10 feet without written approval from the Engineer.

When work is not in progress on a trench or other excavation that required closure of an adjacent lane, the traffic cones or portable delineators used for the lane closure shall be placed off of and adjacent to the edge of the traveled way. The spacing of the cones or delineators shall be not more than the spacing used for the lane closure.

Suspended loads or equipment shall not be moved nor positioned over public traffic or pedestrians.

Full compensation for conforming to the requirements in this section "Public Safety", including furnishing and installing temporary railing (Type K) and temporary crash cushion modules, shall be considered as included in the contract prices paid for the various items of work involved and no additional compensation will be allowed therefore.

The Contractor shall be aware that some areas in Solano County are subject to flooding from time to time. The project jobsite may be such an area. The Contractor shall perform all investigations it deems necessary to inform itself of the potential of the jobsite to flood. No additional compensation shall be provided to the Contractor for any delays or damages suffered by the Contractor as a result of flooding of the jobsite, or of any other areas in Solano County.

The Contractor shall be aware that from time to time individuals, private entities, and public agencies release water into, or impound water in, various ditches and creeks in Solano County. The project jobsite may contain such ditches and creeks. The Contractor shall perform all investigations it deems necessary to inform itself whether such water releases or impoundments may occur which could affect the jobsite. The Contractor shall take all necessary actions to protect the project work from such water releases or impoundments. No additional compensation shall be provided to the Contractor for any delays or damages suffered by the Contractor as a result of water releases or impoundments which affect the jobsite. Full compensation for protecting the project work from such water releases or impoundment shall be considered as included in the various contract items of work, and no additional compensation shall be made therefore.

7-1.06 INSURANCE

7-1.06A General

Without limiting the Contractor's obligation to indemnify the County of Solano and the City of Fairfield, the Contractor shall maintain and keep in force during the term of this Agreement the following insurances:

1. Bodily Injury and Property Insurance for all activities of the Contractor (and its subcontractors) arising out of or in connection with this Agreement, written on a Comprehensive General Liability form including, but not limited to, premises and operations, independent contractors, products and completed operations, contractual liability and personal injury, in an amount no less than **Five Million Dollars (\$5,000,000.00)** combined single limit for each occurrence.
2. Automobile Liability Insurance covering bodily injury and property damage for all activities of the Contractor arising out of or in connection with this Agreement, including coverage for owned, hired, and non-owned vehicles, in an amount no less than **One Million Dollars (\$1,000,000.00)** combined single limit for each occurrence.

3. Each said comprehensive general liability and automobile liability insurance policy shall be endorsed with the following specific language:
 - a. The County of Solano, its officers, agents and employees, are named as additional insured for all liability arising out of the operations by or on behalf of the named insured in the performance of this Agreement.
 - b. The inclusion of more than one insured shall not operate to impair the rights of one insured against another insured, and the coverage's afforded shall apply as though separate policies had been issued to each insured.
 - c. The insurance provided is primary and no insurance held or owned by the County of Solano shall be called upon to contribute to a loss.
 - d. If Contractor maintains higher limits than the minimums shown above, County is entitled to coverage for the higher limits maintained by Contractor.
 - e. The coverage provided by this policy shall not be reduced or canceled without thirty (30) days written notice given to the County of Solano.
4. Prior to commencement of any work under this contract, the Contractor shall provide proof of required insurance to the Engineer.
5. Workers' Compensation insurance as required by the Labor Code of the State of California, for Contractor and employees of Contractor shall be provided by Contractor. All Workers' Compensation policies shall be endorsed with the following specific language: "This policy shall not be canceled or materially changed without first giving thirty (30) days prior notice to Solano County in writing."

8 PROSECUTION AND PROGRESS

8-1.01 GENERAL

Time is of the essence in completing the work under this contract.

8-1.02 SCHEDULE

8-1.02B Level II Critical Path Method Schedule

8-1.02B(1) General

Prior to beginning work, a progress schedule will be provided to Solano County's Construction Engineer for the duration of the construction.

8-1.03 PRE-CONSTRUCTION CONFERENCE

Prior to the issuance of the Notice to Proceed, a Pre-Construction Conference will be held at the office of the Department of Resource Management for the purpose of discussing with the Contractor the scope of work, contract drawings, Specifications, existing conditions, materials to

be ordered, equipment to be used, and all essential matters pertaining to the prosecution of and the satisfactory completion of the project as required. The Contractor's representative at this conference shall include all major superintendents for the work and may include major subcontractors.

8-1.04 START OF JOB SITE ACTIVITIES

8-1.04B Standard Start

Section 8-1.04B, "Standard Start", of the Standard Specifications is amended to read:

The County will issue a formal written "Notice to Proceed", after the Contract has been approved, within sixty calendar days after the bid has been awarded. The Contractor shall not begin work within the County right-of-way until they have received a County issued Notice to Proceed. Within ten working days after issuance of Notice to Proceed, the Contractor shall begin to prosecute the work. The work under this contract shall be completed within

EIGHTY-FIVE WORKING DAYS.

The culverts may be ordered as soon as the Notice to Proceed has been given, and the shop drawings have been accepted. Fabrication and facility inspection of the pre-cast elements will not be charged working days until after the project site has been environmentally cleared. The Engineer will Notice the Contractor once the site is environmentally cleared to work. Working day count will not start until the site is environmentally cleared.

8-1.10 LIQUIDATED DAMAGES

8-1.10A General

The liquidated damages amount prescribed in the specifications, to be paid to the County of Solano or to be deducted from any payments due or to become due the Contractor for each day's delay in completing the whole or any specified portion of the work beyond the time allowed in the specifications.

The Contractor shall pay to the County of Solano the sum of \$4,000 per day, for each and every calendar day's delay in finishing the work in excess of the number of working days prescribed above.

9 PAYMENT

9-1.01 GENERAL

Attention is directed to Section 9-1.16, "Progress Payments" and 9-1.17, "Payment After Contract Acceptance" of the Standard Specifications and these Special Provisions.

For the purpose of making partial payments pursuant to Section 9-1.16, "Progress Payments" of the Standard Specifications, the amount set forth for the contract items of work hereinafter listed shall be deemed to be the maximum value of said contract item of work which will be recognized for progress payment purposes: **NONE**.

After acceptance of the contract pursuant to Section 5-1.46, "Final Inspection and Contract Acceptance" of the Standard Specifications, the amount, if any, payable for a contract item of work in excess of the maximum value for progress payment purposes hereinabove listed for said item, will be included for payment in the first estimate made after acceptance of the contract.

No partial payment will be made for any materials on hand which are furnished but not incorporated in the work.

9-1.16 PROGRESS PAYMENTS

9-1.16A General

A prime contractor or subcontractor shall pay any subcontractor not later than 10 days of receipt of each progress payment in accordance with the provision in section 7108.5 of the California Business and Professions Code concerning prompt payment to subcontractors. The 10 days is applicable unless a longer period is agreed to in writing. Any delay or postponement of payment over 30 days may take place only for good cause and with the agency's prior written approval. Any violation of section 7108.5 shall subject the violating contractor or subcontractor to the penalties, sanctions and other remedies of that section. This requirement shall not be construed to limit or impair any contractual, administrative or judicial remedies otherwise available to the Contractor or subcontractor in the event of a dispute involving late payment or nonpayment by the prime contractor, deficient subcontract performance, or noncompliance by a subcontractor. This provision applies to both DBE and non-DBE subcontractors.

9-1.17 PAYMENT AFTER CONTRACT ACCEPTANCE

9-1.17A General

Section 9-1.17, "Payment After Contract Acceptance", of the Standard Specifications is amended to read:

After the work has been completed satisfactorily as determined by the Engineer and as provided in Section 5-1.46, "Final Inspection and Contract Acceptance", payments will be made to the Contractor subject to the provisions in this Section 9-1.17.

Section 9-1.17B, "Payment Before Final Estimate", of the Standard Specifications is amended to read:

After the work has been completed as determined by the Engineer, he will make an estimate of the total amount of work done under the contract and the County will make a final monthly payment pending issuance of the proposed final estimate. The County will pay the balance found to be due after deduction of all previous payments, all amounts to be kept or retained under the provisions of the contract, and such further amounts that the Engineer determines to be necessary pending issuance of the proposed final estimate and payment.

Section 9-1.17D (3) "Final Payment and Claims", of the Standard Specifications is amended to read:

Failure to allow timely access to the supporting data for a claim when requested waives the claim.

The Department's costs in reviewing or auditing a claim not supported by the Contractor's accounting or other records are damages incurred by the County within the meaning of the California False Claims Act.

The Director of Resource Management will make the final determination of any claims which remain in dispute after completion of claim review by the Engineer. A board or person designated by said Director will review such claims and make a written recommendation thereon to the Director. The Contractor may meet with the review board or person to make a presentation in support of such claims.

Upon final determination of the claims, the Engineer shall then make and issue his final estimate in writing and will recommend to the Board of Supervisors that they formally accept the contract. In no event shall final payment be made in less than thirty days after completion of work and the formal acceptance of the contract by the Board of Supervisors. Such final estimate and payment thereon shall be conclusive and binding against both parties to the contract on all questions relating to the amount of work done and the compensation payable, except as otherwise provided in Sections 5-1.27, "Records", and 9-1.21, "Clerical Errors".

DIVISION II GENERAL CONSTRUCTION

10 CONSTRUCTION DETAILS

10-1 GENERAL

10-1.01 ORDER OF WORK

Order of work shall conform to the provisions in these Special Provisions.

After the Notice to Proceed, the Engineer will suspend working days to allow the Contractor to order the pre-cast culvert. Culvert fabrication and inspection will not be charged working days.

Contractor shall have their Traffic Control Plan approved prior to the beginning of road construction work.

The County will conduct Preconstruction Environmental Surveys (PES), and notify the Contractor when they may begin work.

Contractor shall submit for Engineer's acceptance, a Stormwater Pollution Prevention Plan (SWPPP) prior to the start of any ground disturbing activities. The Contractor may commence ground disturbing activities after the Engineer has a clearance under the PES and has reviewed and accepted the SWPPP(s).

Attention is directed to Section 7-1.03, "Public Convenience"; Section 7-1.04, "Public Safety"; and Section 12-4, "Maintaining Traffic" of the Standard Specifications and these Special Provisions.

12 TEMPORARY TRAFFIC CONTROL

12-1 GENERAL

12-1.01 GENERAL

Attention is directed to Section 7-1.03 "Public Convenience," Section 7-1.04, "Public Safety," and Section 12 "Temporary Traffic Control," of the Standard Specifications and to the section entitled Public Safety elsewhere in these Special Provisions. Nothing in these Special Provisions shall be construed as relieving the Contractor from his responsibility as provided in said Sections 7-1.03 and 7-1.04.

Upon completion of the culvert replacement the road shall be opened to thru traffic, at which time the following two paragraph will be in effect:

- A. The full width of the traveled way shall be open for use by public traffic on Saturdays, Sundays, and County holidays and when construction operations are not actively in progress.
- B. Unless approved by the Engineer, not more than one stationary lane closure will be allowed at one time.

Local authorities shall be notified at least 5 business days before work begins. The Contractor shall cooperate with local authorities to handle traffic through the work area and shall make arrangements to keep the work area clear of parked vehicles.

Personal vehicles of the Contractor's employees shall not be parked on the traveled way closed to public traffic.

When work vehicles or equipment is parked on the shoulder within 8 feet of a traffic lane, the shoulder area shall be closed in accordance with the Standard Plans.

A minimum of one paved traffic lane, not less than 10 feet wide, shall be open for use by public traffic.

12-1.04 PAYMENT

County has determined the cost of furnishing flaggers including transportation using Force Account Methods. County will pay the cost at the rate as shown in the bid schedule. Flagging is from the time that the roadway goes under control of the Contractor's flaggers, until the time that the roadway goes off of the control of the Contractor's flaggers. This does not include set-up or take-down, as those costs shall be included in Traffic Control System for Lane Closure.

Flagging shall be paid in accordance with the Special Provisions as shown above. The Contractor will be paid at the listed unit price for these items. The Estimated Quantity is for bid purposes only. Payment will be based upon actual hours used. Unit price adjustment resulting from a change of more than 25% does not apply to these items.

12-3.11 CONSTRUCTION AREA SIGNS

Construction area signs for temporary traffic control shall be furnished, installed, maintained, and removed when no longer required in conformance with the provisions in Section 12, "Construction Area Traffic Control Devices," of the Standard Specifications and these special provisions.

Attention is directed to the provisions in "Prequalified and Tested Signing and Delineation Materials" of these special provisions. Type II retroreflective sheeting shall not be used on construction area sign panels. Type III, IV, VII, VIII, or IX retroreflective sheeting shall be used for stationary mounted construction area sign panels.

Unless otherwise shown on the plans or specified in these special provisions, the color of construction warning and guide signs shall have black legend and border on orange background except W10-1 or W47(CA) (Highway-Rail Grade Crossing Advance Warning) sign shall have black legend and border on yellow background.

The Contractor shall notify the appropriate regional notification center for operators of subsurface installations at least three (3) working days, but not more than fourteen (14) calendar days, prior to commencing excavation for construction area sign posts. The regional notification centers include, but are not limited to, Solano County Public Works Operations at (707) 421-6055.

Excavations required to install construction area signs shall be performed by hand methods without the use of power equipment, except that power equipment may be used if it is determined there are no utility facilities in the area of the proposed post holes.

Construction area signs placed within 15 feet from the edge of the travel way shall be mounted on stationary mounted sign supports as specified in "Construction Area Traffic Control Devices" of these special provisions.

The term "Construction Area Signs" shall also include temporary object markers required for the direction of public traffic through or around the work during construction. Object markers listed or designed on the plans as construction area signs shall be considered to be signs and shall be furnished, erected, maintained, and removed by the Contractor in the same manners specified for construction area signs and the following:

Object markers shall be stationary mounted on wood or metal posts in accordance with the details shown on the plans and the requirements in Section 82, "Markers and Delineators," of the Standard Specifications.

12-3.11D PAYMENT

The contract lump sum price paid for Construction Area Signs shall include full compensation for furnishing, installation, and maintenance of the Construction Area Sign as shown in the Contract Plans.

12-4 MAINTAINING TRAFFIC

12-4.02 TRAFFIC CONTROL SYSTEMS

12-4.02A General

A traffic control system shall consist of closing traffic lanes in conformance with the details shown on the plans, the provisions in Section 12, "Temporary Traffic Control", of the Standard Specifications, the provisions under Section 7-1.03, "Public Convenience", Section 7-1.04, "Public Safety", Section 12-3.11, "Construction Area Signs", and Section 12-4, "Maintaining Traffic", of the Standard Specifications and these Special Provisions.

The provisions in this section shall not relieve the Contractor from the responsibility to provide additional devices or take measures as may be necessary to comply with the provisions in Section 7-1.04, "Public Safety", of the Standard Specifications.

If components in the traffic control system are displaced or cease to operate or function as specified, from any cause, during the progress of the work, the Contractor shall immediately repair the components to the original condition or replace the components and shall restore the components to the original location.

A traffic control system for road closure shall consist of closing the southbound and northbound traffic lanes on Timm Road at the box culvert location. The Contractor shall submit to Solano County the closure plan. The plan shall meet the provisions in Standard Specifications and the signage plan shall conform to the Contract Plans.

12-4.04D PAYMENT

The bid item lump sum price for Traffic Control System for Road Closure shall include full compensation for maintenance of signage and barricades, gaining access to the site, and providing for public safety.

The bid item lump sum price for Traffic Control System for Lane Closure shall include full compensation for maintenance of signage and barricades, gaining access to the site, and providing for public safety.

The bid item unit price for Type 3 Barricades shall include full compensation for the furnishing, installation, maintenance, and removal of the Barricades from the Right of Way. The initial placement of the Barricades shall be paid under the bid item unit price and any subsequent moves shall be paid at force account. Moving the barricade to gain access to the site shall be paid under Traffic Control System for Lane Closure and no further payment will be made.

The bid item unit for Barrier Rail (Type K) shall include full compensation for the furnishing, installation, maintenance, and removal of the Barrier Rail from the Right of Way. The initial placement of the Barrier Rail shall be paid under the bid item unit price and any subsequent moves shall be paid at force account. Moving the Barrier Rail to gain access to the site shall be paid under Traffic Control System for Lane Closure and no further payment shall be made.

13 WATER POLLUTION CONTROL

13-1 GENERAL

13-1.01 GENERAL

13-1.01A General

Water pollution control work shall conform to the provisions in Section 7-1.11, "Federal Laws for Federal-Aid Contracts"; Section 13, "Water Pollution Control"; and Section 14, "Environmental Stewardship" of the Standard Specifications and these Special Provisions.

13-3 STORMWATER POLLUTION PREVENTION PLAN

13-3.04 PAYMENT

For a project with 60 original working days or less, the County pays for prepare stormwater pollution control plan as follows:

1. Total of 75 percent of the item total upon authorization of the SWPPP
2. Total of 100 percent of the item total upon Contract acceptance

For a project with more than 60 original working days, the County pays for prepare stormwater pollution prevention plan as follows:

1. Total of 50 percent of the item total upon authorization of the SWPPP
2. Total of 90 percent of the item total upon work completion
3. Total of 100 percent of the item total upon Contract acceptance

The County does not pay for the preparation, collection, laboratory analysis, and reporting of stormwater samples for nonvisible pollutants if WPC practices are not implemented before precipitation or if you fail to correct a WPC practice before precipitation.

The County pays:

1. \$500 for each authorized rain event action plan
2. \$2,000 for each authorized stormwater annual report

The County does not adjust the unit price for an increase or decrease in the quantity of:

1. Rain event action plan
2. Storm water sampling and analysis day
3. Storm water annual report

13-9.03 CONSTRUCTION

All concrete equipment, include chutes, will be cleaned over the concrete washout. The concrete washout will remain at least 50 feet from the creek embankments. No sign will be required for the concrete washout. Concrete washouts will not be filled higher than 6 inches below the upper rim.

13-9.04 PAYMENT

Concrete Washouts will be paid by the each. Solano County will pay for 2 concrete washout per culvert. No extra payments will be made if the washout is not sufficient to maintain the volume of waste from the concrete activities or if the original washout is damaged.

13 -10 TEMPORARY LINEAR SEDIMENT BARRIERS

Silt fence must comply with section 13-10.02B.

Install temporary Fiber Rolls as specified in Section 21-2.03P. Monofilament fiber rolls are not allowed.

13 -10.04 PAYMENT

Silt fence will be paid at the bid unit price per linear foot of installed length. Payment by the Linear Foot of installed Silt Fence includes stakes, staples, trenching and backfill as required.

Fiber Rolls will be paid by the bid unit price per linear foot of installed length. Payment by the Linear Foot of installed fiber rolls includes stakes and trenching as required.

14 ENVIRONMENTAL STEWARDSHIP

14-1 GENERAL

14-1.01 GENERAL

All material resulting from Clearing and Grubbing and Remove and Dispose Debris shall be disposed of in a Sanitary Landfill operated, permitted and licensed (in accordance with Title 27) by the State of California and/or the County, which is a sub-division of the State of California. Landfill weight slip disposal receipts for proof of delivery of all material originating from project site(s) and disposed in Sanitary Landfill shall be provided to the Engineer daily. Contractor shall provide to the engineer daily, a written log which includes date, time, location, material classification, estimate of quantity of material, delivery truck company, delivery truck identification (truck number), truck operator's name, and recorder's name of such written log for all deliveries.

This project is subject to the Migratory Bird Treaty Act and the Endangered Species Act and therefore requires a preconstruction survey and environmental monitoring if threatened or endangered species are present or have the potential to be present at the site.

If required as a result of the environmental survey, the biologist must be onsite every day that work occurs for those portions of bid item work that could affect threatened or endangered species anywhere on the project site to monitor those construction activities.

14-6.05 PAYMENT

If required. On-Site Environmental training constitutes a 30-minute training from the County Supplied Biologist. All workers must attend the training before working on site. On-Site Environmental training will be paid $\frac{1}{2}$ hr per person at Force Account.

14-8 NOISE AND VIBRATION

14-8.02 NOISE CONTROL

Noise control shall conform to the provisions in Section 14-8.02, "Noise Control," of the Standard Specifications and these Special Provisions. This requirement in no way relieves the Contractor from responsibility for complying with local ordinances regulating noise level.

Said noise level requirement shall apply to all equipment on the job or related to the job, including but not limited to trucks, transit mixers or transient equipment that may or may not be owned by the Contractor. The use of loud sound signals shall be avoided in favor of light warnings except those required by safety laws for the protection of personnel.

Full compensation for conforming to the requirements of this section shall be considered as included in the prices paid for the various contract items of work involved and no additional compensation will be allowed therefore.

14-11.14 TREATED WOOD WASTE

14-11.14A General

Section 14-11.14 applies if treated wood waste is shown on the Bid Item List.

Section 14-11.14 includes specifications for handling, storing, transporting, and disposing of treated wood waste. Manage treated wood waste under 22 CA Code of Regulations Division 4.5 Chapter 34.

14-11.14B Submittals

Within 5 business days of disposing of treated wood waste, submit as an informational submittal a copy of each completed shipping record and weight receipt.

14-11.14C Training

Provide training to personnel who handle or may come in contact with treated wood waste. Training must include:

1. Requirements of 8 CA Code of Regs.

2. Procedures for identifying and segregating treated wood waste
3. Safe handling practices
4. Requirements of 22 CA Code of Regs Div 4.5 Ch 34
5. Proper disposal methods

Maintain training records for 3 years.

14-11.14D Storage of Treated Wood Waste

Until disposal, store treated wood waste using the following methods:

1. Raise the waste on blocks above a foreseeable run-on elevation and protect it from precipitation for no more than 90 days.
2. Place the waste on a containment surface or pad protected from run-on and precipitation for no more than 180 days.
3. Place the waste in water-resistant containers designed for shipping or solid waste collection for no more than 1 year.
4. Place the waste in a storage building as defined in 22 CA Code of Regs Div 4.5 Ch 34 § 67386.6(a)(2)(C).

Prevent unauthorized access to treated wood waste using a secure enclosure such as a locked chain-link-fenced area or a lockable shipping container located within the job site.

Resize and segregate treated wood waste at a location where debris including sawdust and chips can be contained. Collect and manage the debris as treated wood waste.

Identify treated wood waste and accumulation areas using water-resistant labels that comply with 22 CA Code of Regs, Div 4.5 Ch 34 § 67386.5. Labels must include:

1. The words *Caltrans District* and the district number
2. The words *Construction Contract* and the contract number
3. District office address
4. Engineer's name, address, and telephone number
5. Contractor's contact name, address, and telephone number
6. Date placed in storage

14-11.14E Transport and Disposal of Treated Wood Waste

Dispose of treated wood waste within:

1. 90 days of generation if stored on blocks
2. 180 days of generation if stored on a containment surface or pad
3. 1 year of generation if stored in a water-resistant container or within 90 days after the container is full, whichever is shorter.
4. 1 year of generation if stored in a storage building as defined in 22 CA Code of Regs, Div 4.5, Ch 34, § 67386.6(a)(2)(C)

Before transporting treated wood waste, obtain agreement from the receiving facility that it will accept the waste. Protect shipments of the waste from loss and exposure to precipitation. For projects generating 10,000 lb or more of treated wood waste, request a generator's EPA Identification Number from the Engineer at least 5 business days before the 1st shipment. Each shipment must be accompanied by a shipping record such as a bill of lading or invoice that includes:

1. The words *Caltrans District* and the district number
2. The words *Construction Contract* and the contract number
3. District office address
4. Engineer's name, address, and telephone number
5. Contractor's name, contact person, and telephone number
6. Receiving facility's name and address
7. Description of the waste (e.g., treated wood waste with preservative type if known or unknown/mixture)
8. Project location
9. Estimated weight or volume of the shipment
10. Date of transport
11. Date of receipt by the treated wood waste facility
12. Weight of shipment measured by the receiving facility
13. Generator's US EPA Identification Number for projects generating 10,000 lb or more of treated wood waste

The shipping record must be 8-1/2 by 11 inches and a 4-part carbon or carbonless form to provide copies for the Engineer, transporter, and treated wood waste facility.

Dispose of treated wood waste at an approved California disposal site operating under a RWQCB permit that includes acceptance of treated wood waste.

15 EXISTING FACILITIES

15-1 GENERAL

15-1.01 GENERAL

Raise Iron shall consist of adjust manhole covers, valve covers and monument well covers to grade when directed by the Engineer. Monuments wells to receive a new G5 type box with cover. Lids will be marked with the appropriate utility type.

15-1.03 CONSTRUCTION

15-1.0B Removing Concrete

All materials resulting from Remove and Dispose Concrete (Culvert) (F) will be the responsibility of the Contractor to dispose of in accordance with Section 14-01 of the Standard Specifications. Remove and Dispose Concrete (Culvert) shall include all materials of existing culverts, wing walls, stone, foundations, or underground facilities needed to be removed to complete the installation of the double box culvert.

15-1.04 PAYMENT

The contract price paid by each for Raise Iron shall include furnishing all labor, tools, equipment, and for doing all the work involved in removing the existing pavement surface to utility grade, approximately 1 foot radius beyond the utility, raising existing facilities to finish grade with. $\frac{1}{2}$ " Type A Hot Mix Asphalt shall be used for the top two inches. The contractor may use two sack slurry or minor concrete below three inches from finished grade.

The contract price paid by lump sum for Remove and Dispose Concrete Culvert shall include full compensation for the labor, equipment, removal, transportation, and any disposal fees of all materials in accordance with Section 14-1.

The contract unit price paid by each for Potholing (Vactor Extraction) includes full compensation for the labor, materials, tools, equipment to locate the facility, verify its depth and location including backfilling. Backfill to 95% in the new roadway, and within 3 feet of the new roadway. Potholes greater than 3 feet from the new roadway may be compacted to 90%.

The contract unit price paid by square foot for Regrade Driveway includes roadway excavation, aggregate base material, placement, forming, shaping, and compaction. HMA will be paid by the ton as Hot Mix Asphalt.

16 TEMPORARY FACILITIES

16-2 MISCELLANEOUS TEMPORARY FACILITIES

16-2.01 GENERAL

16-2.01A General

Temporary Fence consist of T-post with 6x6 wire mesh five (5) feet high, and spaced ten (10) feet maximum.. Temporary Fence to be installed in private property (7814 Timm Road).

16-2.01 D Payment

The contract price paid by linear feet for Temporary Fence shall include the installation, maintenance, removal and disposal after the permanent fence is installed.

17 GENERAL

17-2 CLEARING AND GRUBBING

17-2.03B(1) Remove Tree

Remove Trees shall include all labor, materials, and equipment required to Remove Trees as shown in the Plans and Special Provisions. This work includes the stump, root ball and major roots to within 2' below finish grade. A tree shall constitute a tree when the trunk diameter is equal to or greater than 6" in diameter at 30" above the existing grade,

17-2.04 PAYMENT

The contract price paid by lump sum for Clearing and Grubbing includes, but is not limited to the removal of shrubs, vegetation and other materials, tree trimming, hauling, site restoration and clean-up.

The contract price paid by each for Tree Removal shall include, hauling, site restoration and clean-up in accordance with Section 17-2.03 of the Caltrans Standard Specifications.

19 EARTHWORK

19-1 GENERAL

19-1.01 GENERAL

19-1.01 CHANNEL EXCAVATION

Channel Excavation shall constitute the excavation needed to provide 2' (feet) below grade for RSP outside the limits of the culvert. Channel Excavated material shall remain segregated from all of other excavated material. Material shall be reintroduced over the rock slope protection to produce a bio engineered fill. Channel excavation includes all excavation inside the channel for the wing walls, and additional RSP from the culvert inlet/outlet as shown in the plans.

19-1.01(a) PAYMENT

The contract unit price paid by cubic yard for Channel Excavation (F) shall include the excavation to the depth as shown on the plans or as directed by the Engineer, stockpiling of Channel Excavation Material, reintroduction of material as backfill, and the removal and disposal of excess material per Section 14.1.

19-2 ROADWAY EXCAVATION

19-2.01 GENERAL

Roadway excavation can be used for shoulder backing material. Surplus material that can't be used as shoulder backing directly adjacent to the edge widening will be deposited within the Right of Way or exported to the locations identified in Section 5-1.32 or as directed by the Engineer. The Contractor shall reestablish ditches if any earthwork results in interference with the existing flow line. Full compensation for reestablishing flowlines of ditches shall be considered as included in the contract unit price for Roadway Excavation and no separate payment will be made.

Where a portion of the existing surfacing is to be removed, the outline of the area to be removed to a minimum depth of 0.17-foot and shall be cut on a neat line with a power-driven saw before pavement surface removal, or shall be removed with a tungsten-carbide-bit pavement grinder to the depth indicated. Full compensation for saw cutting the existing surfacing or grinding shall be considered as included in the contract price paid per square foot for Roadway Excavation and no additional compensation will be allowed.

Import borrow shall be mineral material including rock, sand, gravel, or earth. The Contractor shall not use man-made refuse in imported borrow including:

1. Hot mix asphalt
2. Residue from grooving or grinding operations
3. Metal
4. Rubber
5. Mixed debris
6. Rubble

Imported borrow shall have a Resistance (R-Value) of not less than 10.

19-2.03 SURPLUS MATERIAL

Surplus materials within the Right of Way as directed by the Engineer shall be disposed of by the Contractor.

19-2.04 PAYMENT

The contract unit price paid per cubic yard for Roadway Excavation (F) is the volume of roadway excavation material, including volume of material involved in:

1. Embankment construction unless a separate bid item for constructing embankments is shown on the Bid Item List
2. Ditch or channel excavation if the bottom width of the ditch or channel is 12 feet or more
3. Local borrow excavation

The volume of material for roadway excavation is determined from the average end areas and the distances between them.

If changed conditions or nature of a particular operation make determining the quantities of roadway excavation based on average end areas impractical, the payment quantity is the volume determined using a method best suited to obtain an accurate quantity.

If the quantities of roadway excavation are determined from average end areas and centerline distances, a correction for curvature is not applied to quantities within the roadway prism. In determining the quantity of material outside the original roadway prism, where the roadway centerline is used as a base, a correction is made for curvature if the centerline radius is 1,000 feet or less.

The volume of material removed from a stockpile is determined from measurements of the stockpile before removal. If the bottom of a ditch or channel is less than 12 feet wide, the payment quantity for ditch excavation is the volume determined from average areas and the distances between them.

The contract unit price paid by cubic yard for Export (F) includes disposal of excess materials from the project's right of way, as specified in the Standard Specifications and these Special Provisions.

19-3 STRUCTURE EXCAVATION AND BACKFILL

19-3.04 PAYMENT

For culverts:

1. Depth of structure excavation is the vertical distance between original ground and the bottom of the culvert trench.
2. Increased depth due to unsuitable material or rock or other unyielding material below the planned grade as specified in section 19-3.03H is not considered in determining the depth of structure excavation.

The contract unit price paid by cubic yard for Structural Excavation (F) includes excavation to the depth a shown on the plans or as directed by the Engineer. Structural Excavation includes the excavation for all culvert components and straight wing walls. Any additional excavation (i.e. additional sloping) needed to maintain safe operation practices will not receive compensation.

The contract unit price paid by cubic yard for Structural Backfill (F) shall include furnishing and installation of the Structural Backfill per the Standard Specifications and Standard Plans (A62G).

19-6 EMBANKMENT CONSTRUCTION

19-6.01 GENERAL

The contractor unit price paid by cubic yard for Roadway Excavation shall include full compensation for remove, storage, and re-installing of the material as embankment per the Standard Specifications and Standard Plans.

Surplus material relocated with-in the Right of Way as directed by the Engineer shall be placed and trimmed to a consistent surface. Relocation of embankment material to the county ROW or used as shoulder backing will be paid under Roadway Excavation and no additional compensation will be allowed thereafter.

19-9 SHOULDER BACKING

19-9.01 GENERAL

Section 19-9 is amended as follows:

This work shall consist of constructing shoulder backing adjacent to the edge of new surfacing where the slope of the adjacent grade is flatter than a 1.5:1 slope and in compliance with the details shown on the plans, these Special Provisions, and as directed by the Engineer. Shoulder backing shall not be placed with a cross slope less than 5%.

19-9.02 MATERIALS

Section 19-9 is amended as follows:

This work shall consist of constructing shoulder backing adjacent to the edge of new surfacing where the slope of the adjacent grade is flatter than a 1.5:1 slope and in compliance with the details shown on the plans, these Special Provisions, and as directed by the Engineer. Shoulder backing shall not be placed with a cross slope less than 5%. If the adjacent grade is steeper than 1.5:1 the Shoulder backing shall be paid under Finish Roadway.

Shoulder backing shall be constructed of local borrow as defined in Section 19-7.01B of the Standard Specifications, except where shown on the plans and as directed by the Engineer, which shall be imported borrow. Imported borrow shall be mineral material including rock, sand, or gravel. The Contractor shall not use man-made refuse in imported borrow including:

1. Hot mix asphalt
2. Residue from grooving or grinding operations
3. Metal
4. Rubber
5. Mixed debris
6. Rubble

Recycled AB is allowed

Shoulder backing material shall be watered and rolled to form a smooth firmly compacted surface.

Shoulder backing material shall not be deposited on the new surface prior to placing it in final position, nor shall it be bladed onto the new surfacing during mixing, watering, and blading operations. Backing material inadvertently placed on the new surface shall be removed by sweeping and/or washing as directed by the Engineer.

Shoulder backing material shall be clean and free from organic matter and other deleterious substances. Shoulder backing may include any combination of broken stone, crushed gravel, natural rough-surfaced gravel, sand, and processed reclaimed asphalt concrete pavement, portland cement concrete pavement, lean concrete base, and cement treated base. Shoulder backing material shall conform to the following grading requirements:

Shoulder Backing Grading Requirements

Sieve Sizes	Percentage Passing
2"	100
1"	75 - 100
3/4"	65 - 100
No. 4	35 - 60
No. 30	10 - 35
No. 200	5 - 15

Sand Equivalent for shoulder backing material shall be from 10 to 35 determined in conformance with California Test 217 except if 100 % reclaimed asphalt concrete pavement is used, the Sand Equivalent requirement is 10 minimum.

If a combination of broken stone, crushed gravel, natural rough-surfaced gravel, and sand material is used, shoulder backing material shall conform to the following quality requirements:

Shoulder Backing Quality Requirements Using Non-Reclaimed Materials

Specification	California Test	Requirement
Sand equivalent	217	10 - 30
Percentage crushed particles (% , min.) ^a	205	
One fractured face		75
Two fractured faces		50
Durability index (min.)	229	25

Note:

^a Applies to material retained on No. 4 sieve only

Shoulder backing material shall have a minimum unit weight of 105 pounds per cubic foot determined in conformance with California Test 212 using the Rodding Method.

19-9.03 CONSTRUCTION

Shoulder backing material shall be watered and rolled to form a smooth firmly compacted surface.

Shoulder backing material shall not be deposited on the finished surface prior to placing it in final position, nor shall it be bladed onto the new surfacing during mixing, watering, and blading operations. Backing material inadvertently placed on the finished surface shall be removed by sweeping and/or washing as directed by the Engineer.

Prior to placement of shoulder backing material, basement material shall be scarified to a minimum depth of 0.25 foot. Immediately prior to placement of shoulder backing material, scarified material shall be watered. Shoulder backing material shall be placed, watered, and rolled a minimum of two passes with a steel drum roller weighing not less than 8 tons to form a smooth, compacted surface. Watering shall conform to the provisions in Section 17, "Watering," of the Standard Specifications.

Shoulder backing construction shall be completed along the edges of any portion of new pavement surfacing within 5 days after completion of that portion of the new surfacing. Prior to opening a lane adjacent to uncompleted shoulder backing to uncontrolled public traffic, the Contractor shall furnish, place, and maintain portable delineators and W8-9 (LOW SHOULDER) signs off of and adjacent to the new pavement surfacing. Portable delineators shall be placed at the beginning and along the drop-off of the edge of pavement, in the direction of travel, at successive maximum intervals of 500 feet on tangents and 200 feet on curves. W8-9 (LOW SHOULDER) signs shall be placed at the beginning and along the drop-off at successive maximum intervals of 2,000 feet. The portable delineators and W8-9 (LOW SHOULDER) signs shall be maintained in place at each location until the shoulder backing is completed at that location. Portable delineators and signs shall conform to the provisions in Section 12, "Temporary Traffic Control," of the Standard Specifications, except the signs may be set on temporary portable supports or on barricades.

19-9.04 PAYMENT

The contract unit price paid by lump sum for Finished Roadway include clean up, final grading of shoulders as described above, and others task pertaining to the finished roadway as shown on the plan, as specified in the Standard Specifications, and these Special Provisions.

20 LANDSCAPE

20-10.03 EXISTING PLANTING

20-10.03C(3) Transplant Trees

Transplant trees as shown in the plans to a location as determined by the Engineer in accordance with Section 10.03C© of the Standard Specifications. Except as follows:.

The Contractor will not be responsible for failure to grow, unless they are so injured or damaged by the Contractor to an extent that renders them unsuitable. Replace damaged trees in accordance with Section 20-3.01C(4).

20-3 .01D Payment

The contract unit price paid by each for Transplant tree shall include full compensation for pruning, removing, relocating, excavation, backfill, clean-up and replacement if damaged by the Contractor.

21 EROSION CONTROL

21-2 EROSION CONTROL WORK

Erosion control shall include applying erosion control materials to areas disturbed by construction activities where shown on the plans. Erosion control must comply with Section 21, "Erosion Control" of the Standard Specification.

Erosion Control work shall consist of applying one application of erosion control material tall all areas shown on the plans and as designated by the Engineer. The application consists of the following and shall be applied in the following sequence: weed free straw, erosion control netting.

Erosion Control Hydromulch and Hydroseed includes applying erosion control materials to areas disturbed by construction activities where shown on the plans. Erosion control Hydromulch and Hydroseed must comply with Sections 21-2, "Erosion Control," of the Standard Specifications and these special provisions.

Erosion control work shall consist of applying one application of erosion control materials to all areas shown on the plans and as designated by the Engineer. The applications shall consist of the following and shall be applied in the following sequence: fiber, seed, commercial fertilizer, and water.

MATERIALS—Materials must comply with Section 21-2, "Materials," of the Standard Specifications and the following:

SEED—Seed must comply with Section 21-2.02F, "Seed," of the Standard Specifications. Individual seed species shall be measured and mixed in the presence of the Engineer.

Seed not required to be labeled under the California Food and Agricultural Code shall be tested for purity and germination by a seed laboratory certified by the Association of Official Seed Analysts or by a seed technologist certified by the Society of Commercial Seed Technologists. Contractor shall measure and mix individual seed species in the presence of the Engineer.

Seed must contain at most 1.0 percent total weed seed by weight.

Deliver seed to the job site in unopened separate containers with the seed tag attached. Containers without a seed tag attached are not accepted. The Engineer takes a sample of approximately 1 ounce or 0.25 cup of seed for each seed lot greater than 2 pounds.

Seed must comply with the following:

Botanical Name	Common Name	Percentage Purity & Germination (Minimum Rate)	Pound Per Acre
Bromus Carinatus	California Brome	95/85	15
Festuca Californica	California Fescue	90/70	15
Elymus Glaucus	Blue Wild Rye	90/70	15
Lupinus Bicolor	Miniature Lupine	90/70	10
Trifolium Weldenovii	Tomcat Clover	90/90	10
Eschscholzia Californica	California Poppy	90/80	5

APPLICATION

Erosion control materials shall be applied in one application as follows

The following mixture in the proportions indicated shall be applied with hydro-seeding equipment within 60 minutes after the seed has been added to the mixture:

Material	Pounds Per Acre (Slope Measurement)
Fiber	2,000
Seed	As shown above

When premixed seed from containers is added to hydro-seeding equipment, the entire contents of the containers shall be used in preparing the hydro-seeding mixture. Partial use of a container of premixed seed will not be permitted in a hydro-seeding mixture.

Once erosion control work is started in an area, all applications shall be completed in that area on the same working day. The proportions of erosion control materials may be changed by the Engineer to meet field conditions.

21-2.04 PAYMENT

The contract unit price paid by square yard for Erosion Control (Jute Netting ECTC Type 3B) shall include the straw, netting, installation, and any spikes or other hardware used during installation as shown on the plan, as specified in the Standard Specifications and these Special Provision.

The contract price paid by square yard of Erosion Control Hydro-mulch and Hydro-seed includes the application of the following fiber, seed, commercial fertilizer, and water. Any spills or over sprays shall be cleaned off the road.

22 FINISHING ROADWAY

22-1.01 GENERAL

Finish Roadway shall consist of the work outlined in Section 22 of the Standard Specification. Finish Roadway shall also constitute the sweeping of the roadway upon completion, shoulder backing, and removal of signage, equipment, and excess material from the Right of Way.

21-2.04 PAYMENT

The contract lump sum price for Finish Roadway shall consist of the work as describe upon and in Section 22 of the Standard Specifications and no further compensation will be provided.

Temporary Erosion Control will be included in the **lump sum** price paid for Water Pollution Control and no additional compensation will be allowed.

26 AGGREGATE BASES

26-1.04 PAYMENT

The contract unit price paid by cubic yard for Aggregate base shall include materials, watering, compaction and grading as shown on the plan, as specified in the Standard Specifications and these Special Provisions.

DIVISION V SURFACINGS AND PAVEMENTS

39 HOT MIX ASPHALT

39-1 GENERAL

39-1.01 GENERAL

39-1.01A Summary

HMA for overlay shall be Type A, and placed using the method compaction process. The asphalt binder mixed with aggregate for HMA Type A shall be Grade PG64-16. The aggregate for HMA Type A shall comply with $\frac{1}{2}$ " grading for overlay.

The method compaction equipment has 3 rollers and shall be done in compliance with these Special Provisions and the Standard Specifications. No in-place density testing or in-place acceptance testing will be required as long as the method compaction process is followed. HMA mix design will not include Liquid Antistrip Treatment, Aggregate Lime Treatment, or Warm Mix Asphalt Technology.

Pavement Smoothness will be evaluated by the 12 foot straightedge specification in 39-3.04C (2).

39-1.01A (4)(f) Certifications

The contractor will supply Certificates of Compliance for the following:

- HMA
- Asphalt binder
- Asphalt modifier
- Reclaimed asphalt pavement (RAP)

39-2 HOT MIX ASPHALT

39-2.01 GENERAL

39-2.01A General

39-2.01A (3) Submittals

39-2.01A (3)(a) General

The only required submittal for HMA is the Job Mix Formula.

39-2.01A (3)(b) Job Mix Formula

The JMF is only required to contain the mix design documentation and the Safety Data Sheets for asphalt binder and supplemental fine aggregate except fines from dust collectors.

39-2.01B Materials

39-2.01B (2) Mix Design

39-2.01B (2)(a) General

Replace the 1st paragraph of section 39-2.01B (2)(a) with:

The HMA mix design must comply with the section 39-2.02A (4)(e) Department Acceptance.

39-2.01C (2) Spreading and Compacting Equipment

39-2.01C (2)(c) Method Compaction Equipment

Replace the 1st paragraph of section 39-2.01C (2)(c) with:

For method compaction, each paver spreading HMA must be followed by at least one of each of the following 3 types of rollers:

1. Breakdown roller must be a vibratory roller specifically designed to compact HMA. The roller must be capable of at least 2,500 vibrations per minute and must be equipped with amplitude and frequency controls. The roller's gross static weight must be at least 12 tons.
2. Intermediate roller must be an oscillating-type pneumatic-tired roller at least 4 feet wide. Pneumatic tires must be of equal size, diameter, type, and ply. The tires must be inflated to 60 psi minimum and maintained so that the air pressure does not vary more than 5 psi.
3. Finishing roller must be a steel-tired, 2-axle tandem roller. The roller's gross static weight must be at least 7.5 tons.

39-2.01C (4) Longitudinal Joints

39-2.01C (4)(a) General

Delete the 2nd and 3rd paragraphs and replace the 1st sentence of the 4th paragraph of section 39-2.01C (4)(a) with:

Place HMA on adjacent traveled way lanes such that at the end of each work shift, the distance between the ends of HMA layers on adjacent lanes is from 5 to 10 feet.

Kraft paper, or approved bond breaker must be used under temporary tapers to facilitate the removal of the taper when paving operations resume.

39-2.01C (6) Widen Existing Pavement

39-2.01C (6)(a) Edge Widening

The Contractor shall construct edge widening as shown on the plans, as specified in the Standard Specifications and these Special Provisions, and as directed by the Engineer.

The Engineer shall delineate the limits of the edge widening. Edge widening constructed outside the limits delineated by the Engineer shall not be measured nor paid for.

The Contractor shall remove existing asphalt concrete or PCC driveways where edge widening conflicts with existing driveways, as directed by the Engineer. Prior to the removal of the existing driveways, the Engineer shall outline where the existing driveway is to be cut on a neat line with a power-driven saw before pavement surface removal, or shall be removed with a

tungsten-carbide-bit pavement grinder to the depth indicated. Pavement grinder will not be allowed for PCC driveway removal. Place hot mix asphalt to tie the new edge of pavement grade to the existing cut edge. Payment for driveway replacement will be paid for as edge widening.

Removed asphalt concrete or PCC shall become the property of the Contractor and shall be disposed of outside the highway right-of-way in accordance with the provisions in section 5-1.20B(4), "Contractor-Property Owner Agreement", of the Standard Specifications.

Earthwork shall comply with section 19, "Earthwork", of the Standard Specifications. Subgrade can be compacted in compliance with Section 19.05E of these Special Provisions.

Excavated material can be used as shoulder backing material. All areas widened shall be shoulder backed.

HMA shall comply with Section 39, "Hot Mix Asphalt", of these Special Provisions. HMA shall be $\frac{3}{4}$ " Maximum Medium, Type B. The edge widening areas shall consist of a 0.50-foot deep lift placed in two approximately equal lifts.

39-2.01C (15)(b) Method Compaction (HMA Paving)

Method compaction must consist of performing:

1. Breakdown roller must be a vibratory roller specifically designed to compact HMA. The roller must be capable of at least 2,500 vibrations per minute and must be equipped with amplitude and frequency controls. The roller's gross static weight must be at least 12 tons.
2. Intermediate roller must be an oscillating-type pneumatic-tired roller at least 4 feet wide. Pneumatic tires must be of equal size, diameter, type, and ply. The tires must be inflated to 60 psi minimum and maintained so that the air pressure does not vary more than 5 psi.
3. Finishing roller must be a steel-tired, 2-axle tandem roller. The roller's gross static weight must be at least 7.5 tons.

39-2.01C (15)(c) Method Compaction (Edge Widen)

Each lift of HMA shall be compacted by use of a 36"- 42" double drum vibratory roller or approved equal with minimum 5 passes per lift (or approved equivalent compaction effort). The first 3 of the 5 passes per lift shall be completed before the surface temperature drops below 250 ° F.

39-2.01D Payment

Payment for quantity of HMA is described in the Standard Specification. Full compensation for furnishing, placing and compacting HMA is included in the price per ton. Tack coat material and application is also included in the price per ton of HMA.

Full compensation for furnishing, placing and compacting HMA in miscellaneous areas including end edge tapes is included in the price per ton.

The contract unit price paid per square foot for Edge Widening and/or Extra Depth Edge Widening shall include full compensation for furnishing all labor, tools, materials, and incidentals and for doing all the work involved in Edge Widening, including quality control plan, quality control testing, earthwork, shoulder backing, HMA, tack coat, saw-cutting or grinding, removal and disposal of asphalt concrete and incidentals, as shown on the plans, as specified in the Standard Specifications and these Special Provisions, and as directed by the Engineer.

Additional work to tie grades for driveway connections may be necessary and will paid for by the square foot as Edge Widening.

39-2.01C (8) Hot Mix Asphalt Leveling

The work consists of placing a leveling course of Type A, 1/2" maximum medium graded Hot Mix Asphalt (HMA) at areas shown on the plans, as specified in the Standard Specifications and these special provisions, and as directed by the Engineer.

All areas to receive HMA leveling will be located within the limits of work boundaries and outlined in paint on the pavement surface. Outline painting will be completed prior to start of construction by the Engineer.

HMA shall comply with "HMA," elsewhere in these special provisions.

A tack coat (paint binder) shall be applied to the marked areas in advance of placing the leveling layer of the HMA. The layer of leveling HMA shall be placed at all areas marked by the Engineer to fill irregularities, ruts, voids, and depressions. A minimum thickness of 0.04 feet of leveling HMA shall be placed at all locations.

The HMA leveling layer blade patching shall be placed by any mechanical means that will produce a relatively uniform and smooth surface tapered onto the existing asphalt with end thickness of no greater than 0.05 feet. The HMA shall be compacted with steel drum roller weighing no less than 8 tons.

The contract price paid per ton for HMA Leveling (1/2"-Type B) shall include full compensation for furnishing HMA for partial width blade patching, as shown on the plans, as specified in the Standard Specifications and these special provisions, and as directed by the Engineer and no additional compensation will be allowed therefore.

47 EARTH RETAINING SYSTEMS

47-6 ALTERNATIVE EARTH RETAINING SYSTEMS

47-6.01 GENERAL

47-6.01A Summary

The Ultrablock Retaining Wall and Keystone Retaining Wall must comply with the Standard Specifications for the type of wall being constructed.

47-6.01B Definitions

The work of placing Ultrablock Segmental Units (ULTRABLOCK) and Keystone where shown on the plans, as specified in the Standard Specification and these special provisions, and as directed by the Engineer.

47-6.01C Submittals

47-6.01C(1) General

For as-built drawings common to more than one structure, submit the as built drawings for each structure.

47-6.01C(2) Shop Drawings

Contractor shall provide the Engineer with plans and specifications of the retaining wall system it intends to use, stamped by a professional engineer licensed with the State of California, for approval five (5) working days prior to construction.

47-6.01C(3) Certificates

Contractor shall submit for approval to the Engineer a Certificate of Compliance for all materials in conformance with the provisions of Section 6-1.07, "Certificate of Compliance" of the Standard Specification.

47-6.01D Quality Assurance

47-6.01D(1) Ultrablock Segmental Units (ULTRABLOCK™)

Ultrablock retaining wall shall be manufactured by Ultrablock, Inc. or approved equal. A qualified representative of the alternative system manufacturer is not required during erection and backfill.

47-6.02 MATERIALS

The Keystone Retaining Wall shall be consisting of Valera Pro Wall materials or equivalent as approved by The Engineer.

The ULTRABLOCK shall meet the following requirements:

1. The ULTRABLOCK units shall have 28-day compressive strength of at least 2,200 psi. The maximum absorption of 10pcf ad adequate freeze-thaw protection (absorption by weight 6%) shall, in general, satisfy the local requirement of high elevation (mountainous) areas where there is a potential for spalling due to freeze-thaw.
2. ULTRABLOCK Unit dimensions such as height, width, depth, and batter shall match details shown on plans. A tolerance of $\pm \frac{1}{2}$ " all dimensions except the height may be used. A tolerance of $\pm \frac{1}{4}$ " shall be used for heights.
3. Full ULTRABLOCK units shall have following dimensions 2.5' x 2.5' x 5.0' and shall weight no less than 4,300 lbs per unit.

47-6.03 CONSTRUCTION

ULTRABLOCK and Keystone shall be placed in strict compliance with the manufacturer's specifications.

All individual ULTRABLOCK units shall be free of cracks and other defects that would interfere with the placement and locking of units. Specifically, all shear keys shall be free of any damage.

Architectural features and coloring shall not be required.

The chamfered corners of the ULTRABLOCK units shall provide approximately 8 in² of drainage area per unit. Clearance of roughly $\frac{1}{2}$ " around locking grooves/shear keys shall provide additional drainage.

47-6.04 PAYMENT

47-6.04A Ultrablock Segmental Units (ULTRABLOCK™)

The contract unit price paid by each for ULTRABLOCK Retaining Wall (Full Block and Half Block) and ULTRABLOCK Retaining Wall (Full Flat and Full Flat Cap) shall include the delivery, and installation.

The contract unit price paid by each for Keystone Retaining Wall shall include the delivery, earthwork, placement of aggregate base footing, placement of keystones, and compaction.

DIVISION VI STRUCTURES

51 CONCRETE STRUCTURES

51-1 CAST-IN-PLACE CONCRETE MEMBERS

51-1.02 MATERIALS

The materials used in the cast in place structures shall conform to Standard Specifications. Cast in place structures constitute all straight and wing wall construction.

All excavation will conform to Section 19-3.

51-1.04 PAYMENT

The contract unit price paid by cubic yard for Structural Concrete (Headwalls & Wing walls) shall include furnishing and installation of materials, formwork, curing compounds, and disposal of excess material out of the County Right of Way.

51-4 PRECAST CONCRETE MEMBERS

51-4.02 MATERIALS

51-4.02A GENERAL

Contractor is directed to Section 51 "Concrete Structures" of the Standard Specifications.

51-4.02D Materials

51-4.02D (5) Fabricating Precast Concrete Members

For PC concrete (reinforced) box culverts, submit shop drawings with calculations. Shop drawings and calculations must be sealed and signed by an engineer who is registered as a civil engineer in the State of California within 5 working days after receipt of the written Notice to Proceed notification. Allow 5 working days for the Engineer's review.

The reinforcing steel as shown in the drawings for the precast concrete members shall be included in the price per linear foot of the Furnish Precast Concrete Culvert.

Attachment components to facilitate the connection between the wing walls and culvert shall be included in Install Precast Concrete Culvert bid item unit price.

51-4.04 PAYMENT

The contract unit price paid per cubic yard for Furnish Precast Concrete Box Culvert shall include the concrete, bar reinforcing steel, wire mesh, transportation and offloading to the project site at Timm Road.

The contract unit price paid per linear foot for Install Precast Concrete Box Culvert shall include the installation, sealing, and connection between culvert and wing walls per the Special Provisions, Contract Plans, or Resident Engineer.

52 REINFORCEMENT

52-1.04 PAYMENT

The contract unit price paid per pounds (lbs.) for Bar Reinforcing Steel shall include reinforcing steel, placement, lap bars for lap splicing, ties, and replacement of damaged bars or parts.

Bar Reinforcing Steel shall include all reinforcement installed in all Cast-In-Place members and Minor Concrete structures. All Bar Reinforcing Steel for the Precast Concrete Box Culvert shall be included in the bid item unit price of Precast Concrete Box Culvert.

DIVISION VII DRAINAGE FACILITIES

64 PLASTIC PIPE

64-2.01 GENERAL

64-2.01A SUMMARY

Replace existing 15" diameter CMP cross culvert with 18" dia HDPE (Type S), corrugated polyethylene pipe with smooth interior. Contractor shall install the Cross Culvert according to a modified Figure 9 on Page 28 of the Solano County Road Improvement Standards and Land Development Requirements. Minimum Pavement Section Thickness of 3-inches with 1/2-inch HMA Type A with no wearing course required. Minimum 12-inch Aggregate Base C1.11 (95% Relative Compaction). Minimum HDPE pipe bedding overburden thickness with allowable reduction from 6-inches down to 3-inches as recommended and determined by the pipe manufacturer. Minimum trench width for HDPE pipe bedding allowable reduction from OD + 18-inches down to OD + 12-inches as recommended and determined by the pipe manufacturer.

If the minimum overburden thickness cannot be achieved, the Contractor shall install a lean concrete backfill (2 sack slurry mix). To 6" minimum above the top of the culvert. Structure Excavation, Roadway Excavation, and backfill costs for 15" Dia. HDPE Pipe (Type S) to be included in bid item work.

64-2.04 PAYMENT

The contract unit price paid per each for 18" Dia. HDPE Pipe shall include full compensation for doing all work involved in installing 18" diameter HDPE pipe complete in place, including removal and disposal of existing 15" CMP culverts, excavation, bedding, and backfill as shown on the plans, as specified in the Standard Specifications and these Special Provisions.

All excavation and debris removed from the 15" Dia. HDPE Pipe installation process shall become the property of the Contractor and shall be disposed of outside the road right-of-way in accordance with Section 5-1.20B(4), "Contractor-Property Owner Agreement", Sections 14 "Environmental Stewardship" and Section 15 "Existing Facilities" of the Standard Specifications and these special provisions.

66 CORRUGATED METAL PIPE

66-1.01 GENERAL

66-1.01A Summary

Corrugated metal pipe (CMP) culverts shall conform to the provisions in Section 66, "Corrugated Metal Pipe," of the Standard Specifications and these Special Provisions.

Corrugated metal pipe shall be corrugated steel pipe as shown on the plans.

66-1.04 PAYMENT

The contract unit price paid by linear foot for Corrugated Metal Pipe (CMP) shall include the removal and disposal of existing facilities, excavation, bedding, backfill and compaction.

All excavation and debris removed from the CMP installation process shall become the property of the Contractor and shall be disposed of outside the road right-of-way in accordance with Section 5-1.20B(4), "Contractor-Property Owner Agreement", Sections 14 "Environmental Stewardship" and Section 15 "Existing Facilities" of the Standard Specifications and these special provisions.

71 EXISTING DRAINAGE FACILITIES

71-6 ABANDON DRAINAGE FACILITIES

71-6.01 GENERAL

71-6.01A General

Existing 18" diameter corrugated metal pipe is to be abandoned in place and shall conform to the provisions in Section 71-6, "Abandon Drainage Facilities," of the Standard Specifications and these Special Provisions.

71-6.01D Payment

The contract unit price paid by each for Abandon Culvert shall include material and labor.

DIVISION VIII MISCELLANEOUS CONSTRUCTION

72 SLOPE PROTECTION

72-1 GENERAL

72-1.01 GENERAL

Section 72-1 includes general specifications for constructing rock slope protection. The bio-engineered fill at the entrance and exit of the culvert as shown in the plans consists of rock slope protection covered with select channel excavation.

72-1.03 CONSTRUCTION

Earthwork must comply with section 19.

Fabric is not required for placing of the bio-engineered fill.

72-2 ROCK SLOPE PROTECTION

72-2.01 GENERAL

Section 72-2 includes specifications for constructing RSP.

Use the class of rock and the method for placement described.

72-2.02 MATERIALS

72-2.02B Rock

For Method B placement and the class of RSP described, comply with the rock gradation shown in the following table:

Rock Gradation

Nominal RSP class by median particle diameter ^b		Nominal median particle weight $W_{50}^{c,d}$	d_{15}^c (inches)		d_{60}^c (inches)		d_{100}^c (inches)	Placement
Class ^a	Diameter (inches)		Min	Max	Min	Max		
I	6	20 lb	3.7	5.2	5.7	6.9	12.0	B
II	9	60 lb	5.5	7.8	8.5	10.5	18.0	B
III	12	150 lb	7.3	10.5	11.5	14.0	24.0	B
IV	15	300 lb	9.2	13.0	14.5	17.5	30.0	B
V	18	1/4 ton	11.0	15.5	17.0	20.5	36.0	B
VI	21	3/8 ton	13.0	18.5	20.0	24.0	42.0	A or B
VII	24	1/2 ton	14.5	21.0	23.0	27.5	48.0	A or B
VIII	30	1 ton	18.5	26.0	28.5	34.5	48.0	A or B
IX	36	2 ton	22.0	31.5	34.0	41.5	52.8	A
X	42	3 ton	25.5	36.5	40.0	48.5	60.5	A
XI	46	4 ton	28.0	39.4	43.7	53.1	66.6	A

^aFor RSP Classes I–VIII, use Class 8 RSP fabric. For RSP Classes IX–XI, use Class 10 RSP fabric.

^bIntermediate or B dimension (i.e., width) where A dimension is length and C dimension is thickness.

^cd%, where % denotes the percentage of the total weight of the graded material.

^dValues shown are based on the minimum and maximum particle diameters shown and an average specific gravity of 2.65. Weight will vary based on specific gravity of rock available for the project.

Rock material must comply with the requirements shown in the following table:

Rock Material Requirements

Quality characteristic	Test method	Requirement
Apparent specific gravity (min)	California Test 206	2.5
Absorption (max, %)	California Test 206	4.2
Durability index (min)	California Test 229	52

Notes:

Durability absorption ratio (DAR) = course durability index/(percent absorption + 1)

If the DAR is greater than 10, the absorption may exceed 4.2 percent.

If the DAR is greater than 24, the durability index may be less than 52.

Select rock such that the shapes provide a stable structure for the required section. If the slope is steeper than 2:1, do not use rounded boulders and cobbles. Angular shaped rock may be used on any planned slope. Flat or needle-shaped rock must not be used unless the individual rock thickness is greater than 0.33 times the length.

72-2.02C Fabric

Fabric must be RSP fabric that complies with the class shown in the following table:

Fabric Class	
Class	Largest rock grading class used in slope protection
8	1 ton or smaller
10	Larger than 1 ton

72-2.03 CONSTRUCTION

72-2.03C Placement Method B

Slope protection shall be placed or constructed in conformance with the provisions in Section 72, "Slope Protection," of the Standard Specifications.

72-2.04 PAYMENT

The contract unit price paid by cubic yard for Rock Slope Protection shall include full compensation for materials and placement as shown on the plans including RSP fabric, and covering with excavated channel material at the concrete double box culvert.

80 FENCES

80-2 BARBED WIRE AND WIRE MESH FENCE

80-2 GENERAL

80-2.01A Summary

80-2.04 PAYMENT

The contract unit price paid per linear foot of Barbed Wire Fence shall include full compensation for removal and disposal of existing fence, materials, and labor to install a 5 strand BW fence with tee posts, pull and corner posts.

80-3 CHAIN LINK FENCE

80-3 GENERAL

80-3.01A Summary

80-2.04 PAYMENT

The contract unit price paid per linear foot of Chain Link Fence shall include full compensation for removal and disposal of existing fence, materials and labor to install a 5 foot high galvanized chain link fence with corner posts, line posts, pull posts and top rail. The Sliding Gate with hardware shall be paid as Chain Link Fence and no additional compensation is allowed.

80-10 GATES

80-10 GENERAL

80-10.01A Summary

The standard Rancher Gate including metal gate post, latch post and two 7 foot wide braced bays with brace post, top rail and truss rods is to be installed on the existing WM fence between two adjacent properties (7814 Timm Road and 7802 Timm Road) per the Standard Plans. Location shall be as directed by the Engineer.

80-10.04 PAYMENT

The contract unit price paid by each for Rancher Gate shall include full compensation for demolition of existing fence, materials, excavation, and installation in accordance with the Standard plans.

DIVISION IX TRAFFIC CONTROL DEVICES

81 MISCELLANEOUS TRAFFIC CONTROL DEVICES

81-2 DELINEATORS

81-2.01 GENERAL

81-2.01A Summary

Guard Railing Delineators shall be installed at approximately fifty (50) feet increments on the Midwest Guardrail System (MGS) railing. Guard Railing Delineator material shall be in compliance with Caltrans Authorized Material List.

81-2.04 PAYMENT

The contract unit price paid by each for Guard Railing Delineators shall include full compensation for material and installation.

82 SIGNS AND MARKERS

82-1 GENERAL

82-1.01 GENERAL

82-1.01A Summary

Signs and markers shall conform to the provisions in Section 82, "Signs and Markers", of the Standard Specifications and these special provisions.

Retroreflective sheeting for metal and flexible target plates shall be the retroreflective sheeting designated for channelizers, markers, and delineators conforming to the requirements in ASTM Designation: D 4956-95 and in conformance with the provisions in "Prequalified and Tested Signing and Delineation Materials" of these special provisions.

82-1.04 PAYMENT

The contract unit price paid by each for Metal Post Markers shall include furnishing and installing the markers as designated in the Contract Plans and shown in the Standard Plans or as directed by the Engineer. This includes attachment components, metal posts, and underground location services for installation.

82-3 ROADSIDE SIGNS

82-3.04 PAYMENT

The contract unit price paid by each for Roadside Sign is paid per post regardless of the number of sign panels on a post. Full compensation includes the sign panel, post, and installation at the location as determined in the field by the Engineer.

82-9 EXISTING ROADSIDE SIGNS AND MARKERS

82-9.04 PAYMENT

The contract unit price paid by each for Relocate Roadside Sign is paid per post regardless of the number of sign panels on a post. Full compensation includes the cost of removal of the sign panel, post, and installation at the location as determined in the field by the Engineer.

The contract unit price paid by each for Remove and Replace Roadside Sign is paid per post regardless of the number of sign panels on a post. Full compensation includes the cost of removal of the sign panel, post, and installation at the location as determined in the field by the Engineer. Removed sign panels shall be Salvaged as Remove and Salvage Roadside Sign.

The contract unit price paid by each for Remove and Salvage Roadside Sign is paid per post regardless of the number of sign panels on a post. Full compensation includes the cost of removal of the sign panel, and delivery of the sign panels to the Solano County Corporation Yard at 3255 North Texas Street, Fairfield, CA.

83 RAILINGS AND BARRIERS

83-2 METAL RAILINGS AND BARRIERS

83-2.02 MIDWEST GUARDRAIL SYSTEMS

83-2.02A General

83-2.02A (1) Summary

Midwest Guardrail System (Steel Posts) shall conform to the provisions in Section 83-2, "Midwest Guardrail Systems", of the Standard Specifications and these Special Provisions.

Install Midwest Guardrail System (MGS) shall conform to the provision in Section 83-2, "Midwest Guardrail Systems", of the Standard Specifications and these Special Provisions.

End Terminal Systems Type SRT-31 and Type MSKT-MGS shall conform to the provisions in Section 83-2, "Midwest Guardrail Systems", of the Standard Specifications these Special Provisions.

83-2.02D PAYMENT

The contract unit price paid by each for Steel Post w/ Base Plate and Anchors includes materials, HMA, excavation, installation and clean up as shown on the plans, as specified in the Standard Specifications and these Special Provisions.

The contract unit price paid by linear foot for MGS (Steel Posts) includes all work involved in the location, excavation, and installation complete in place as shown on the plans, as specified in the Standard Specifications, and these Special Provisions.

The contract unit price paid by each for End Terminal System (Type SRT-31 and Type MSKT-MGS) includes all the work involved in the location, excavation, and installation, as shown on the plans, as specified in the Standard Specifications and these Special Provisions. Pay limits for terminal end systems are as shown in the Standard Plans.

83-11 EXISTING RAILINGS AND BARRIERS

83-11.02 EXISTING GUARDRAILS

83-11.02B REMOVE GUARDRAILS

83-11.02B (1) GENERAL

The Contractor shall remove existing metal beam guard railing including wood posts, and components where shown on the plans and as directed by the Engineer. Work performed in connection with various existing highway facilities shall conform to the provisions in Section 15, "Existing Facilities", of the Standard Specifications and these special provisions.

Salvaged metal material shall be taken daily to the Solano County Corporation Yard at 3255 North Texas Street, Fairfield, CA.

Removal of all non-treated material is included in the contract unit price for Remove and Dispose Existing Guardrail. Treated wood waste disposal will be paid under Removal of Treated Wood Waste. Contractor must dispose of Treated Wood Waste on a daily basis and must provide the Engineer with a copy of the weight ticket for payment.

83-11.02B (4) PAYMENT

The contract unit price paid by linear foot for Remove and Dispose Existing Guardrail include removal, transport, and disposal. Measurement shall be from center of post to center of post. No additional compensation for removal of end anchors or end treatments are allowed.

Removal and Disposal of Treated Wood Waste shall be paid by the tons for the removal and disposal of treated material to a county approved disposal site.

84 MARKINGS

84-2 TRAFFIC STRIPES AND PAVEMENT MARKINGS

84-2.04 PAYMENT

The contract unit price paid by linear foot for Thermoplastic Traffic Stripe include material and placement of stripe by each traffic stripe detail as shown on the plan, as specified in the Standard Specifications and these Special Provisions.

The contract unit price paid by square foot for Thermoplastic Markings. Chevron Marking will be considered under Thermoplastic Markings. The unit price paid for Thermoplastic Markings includes all paint, tape, providing temporary pavement markings, removal of all temporary pavement markings, replacement of damaged markings, pavement surface preparation and any other work required to install pavement markings as shown on the plans, as specified in the Standard Specification and these Special Provisions.

90 CONCRETE

90-2 MINOR CONCRETE

90-2.01 GENERAL

90-2.01A Summary

Materials used in cast in place minor structures shall conform to the Standard Specifications. Minor Concrete includes the rat slab foundation and concrete driveways.

All excavation will conform to Section 19-3.

90-2.04 PAYMENT

The contract unit price paid by cubic yard for Minor Concrete (6" Rat Slab) shall include furnishing and installation of materials, formwork, curing compounds, and disposal of excess material out of the County Right of Way. Reinforcing steel will be paid as a separate bid item.

The contract unit price paid by square foot for Minor Concrete (6" Thick Concrete Driveway) shall include formwork, reinforcement bars, materials, placement and finish.

92 ASPHALT BINDERS

92-1.01 GENERAL

92-1.01A Summary

Paint binder (tack coat) shall be applied to existing surfaces to be surfaced and between layers of asphalt concrete, except when eliminated by the Engineer.

Full compensation for applying paint binder (tack coat) shall be considered as included in the contract unit price paid for per ton of HMA and no additional compensation will be allowed therefore.

96 GEOSYNTHETICS

96-1.02 MATERIALS

96-1.02J Paving Fabric

Pavement reinforcing fabric shall conform to the provisions in Section 96-1.02J, "Paving Fabric", of the Standard Specifications.

Immediately prior to placing binder, pavement reinforcing fabric, and asphalt concrete surfacing, the pavement shall be cleaned of loose and extraneous materials such as, but not limited to, vegetation, sand, dirt, gravel and water.

Before placing the pavement reinforcing fabric, a binder of paving asphalt Grade PG 70-10 shall

be applied uniformly to the surface to receive the pavement reinforcing fabric at a rate of not less than 0.25-gallon per square yard of surface covered. When pavement reinforcing fabric is placed in areas of conform tapers, the binder shall be spread at the approximate rate of 0.30-gallon per square yard of surface covered. The exact rate of application of asphalt binder will be determined by the Engineer.

Pavement reinforcing fabric shall be aligned and placed with no wrinkles that lap. The test for lapping shall be made by gathering together the fabric in a wrinkle. If the height of the doubled portion of extra fabric is $\frac{1}{2}$ inch or more, the fabric shall be cut to remove wrinkle, then lapped in the direction of paving. Lap in excess of 2 inches shall be removed.

Pavement reinforcing fabric shall not be placed in areas of conform tapers when the thickness of the overlying asphalt concrete will be less than 0.15-foot.

Asphalt concrete surfacing shall be placed over the pavement reinforcing fabric in the same work shift that the fabric is placed.

Pavement reinforcing fabric shall not be exposed to public traffic, Contractor's equipment or elements that will damage the fabric prior to placement of asphalt concrete surfacing.

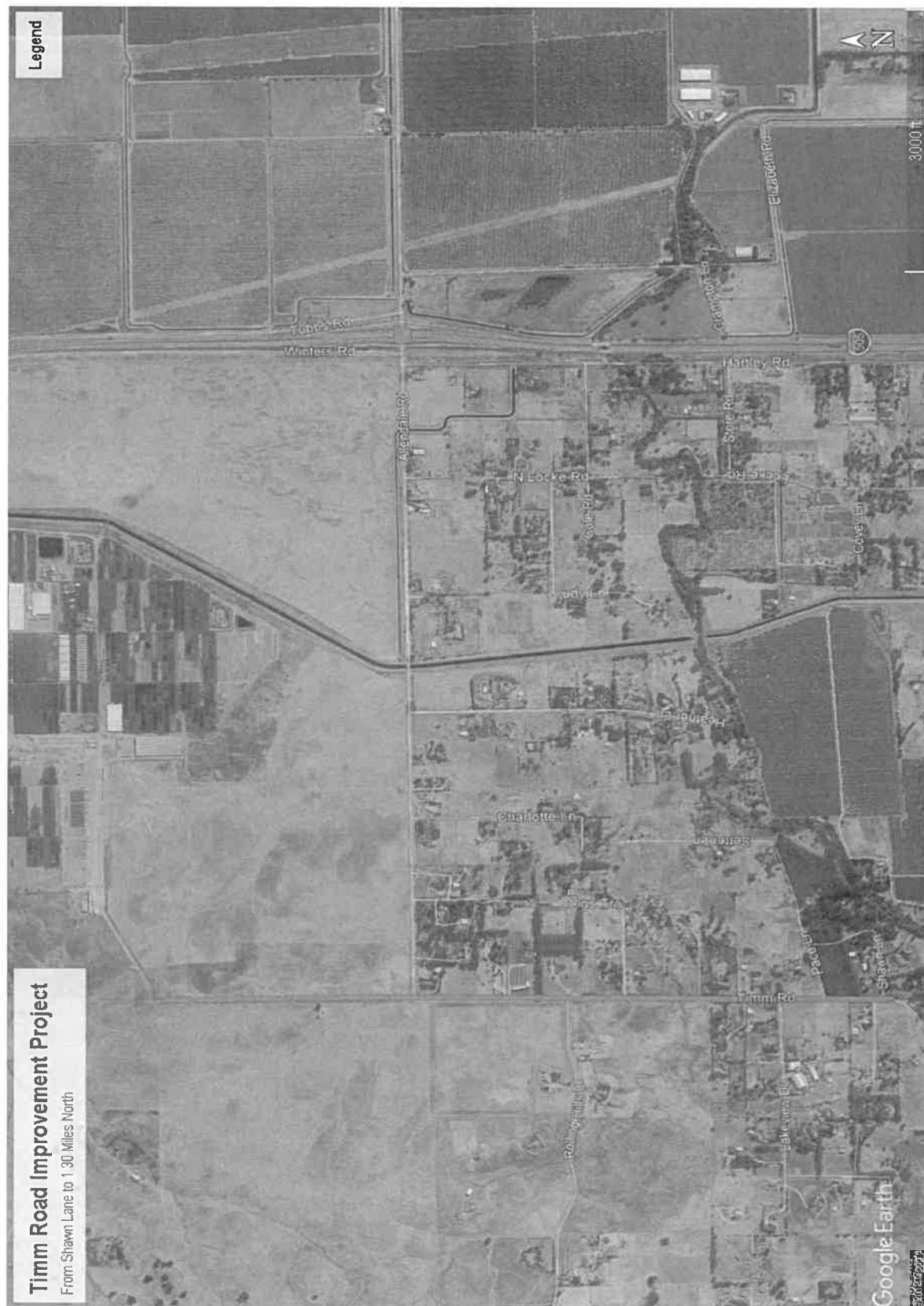
Asphaltic emulsion shall not be substituted for paving asphalt binder for pavement reinforcing fabric.

96-1.04 PAYMENT

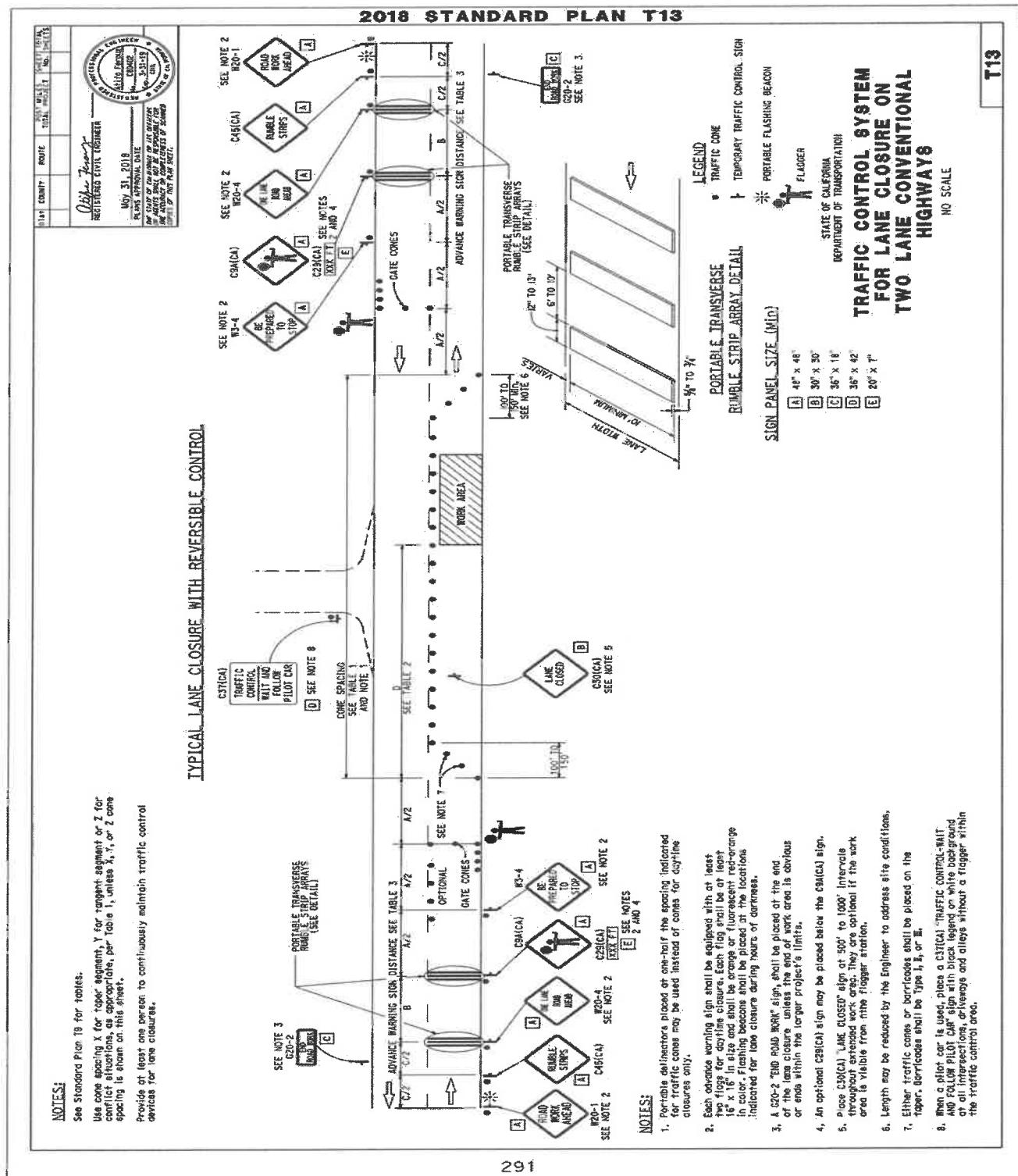
Full compensation for cleaning pavement immediately in advance of placing binder, pavement reinforcing fabric, and asphalt concrete surfacing shall be considered as included in the contract price paid per square yard for pavement reinforcing fabric and no separate payment will be made.

Full compensation for paving asphalt binder shall be included in the contract price paid per square yard for Pavement Reinforcing Fabric and no separate payment will be made.

SITE LOCATION



TRAFFIC CONTROL SYSTEM FOR LANE CLOSURE ON TWO LANE CONVENTIONAL HIGHWAYS



END OF DOCUMENT

BILL EMLEN
Director
(707) 784-6765

TERRY SCHMIDBAUER
Assistant Director
(707) 784-6765

MATT TUGGLE
Engineering Manager
(707) 784-6765

DEPARTMENT OF RESOURCE MANAGEMENT



SOLANO COUNTY

Public Works – Engineering Services Division

675 Texas Street, Suite 5500
Fairfield, CA 94533-6342
(707) 784-6765
Fax (707) 784-4805

www.solanocounty.com

April 9, 2020

COUNTY OF SOLANO COUNTY STATE OF CALIFORNIA

NOTICE TO BIDDERS, BID FORM, SPECIAL PROVISIONS, AGREEMENT AND RELATED CONTRACT DOCUMENTS FOR CONSTRUCTION OF

TIMM ROAD IMPROVEMENT PROJECT

ADDENDUM NO. 1

TO: ALL PROSPECTIVE BIDDERS

You are hereby notified of the following additions, changes and/or clarifications to the project plans and specifications:

1. The Contractor's attention should be directed to the cross sections for Timm Road which are available at the BPXpress website at <http://www.solanormplanroom.com/>. These are provided for information only and are not part of the Contract documents.
2. To maintain social distancing the Notice to Bidder, Pg. 7 is Amended as follows:
 - a. Delete Paragraphs 6 and 7 in their entirety.
 - b. Insert: **Bids must be submitted in person on the date of bid opening at the Solano County Administration Center (CAC), 675 Texas Street, Fairfield, California, 94533.** A drop box on the first floor will be available adjacent to the Information Desk and marked "Public Works Engineering, BIDS". Bids must be placed in the drop box by the time deadline of the date of bid opening.

To maintain social distancing, bids will be read publicly outside the CAC in the public plaza, or in the Parking Garage in the event of increment weather immediately after the specified closing time.

3. The contractor shall be knowledgeable of State of California guidance and requirements for workers at <https://www.labor.ca.gov/coronavirus2019/>.

Sincerely,

A handwritten signature in black ink, appearing to read "Matt Tuggle".

Matt Tuggle
Engineering Manager

BILL EMLEN
Director
(707) 784-6765

TERRY SCHMIDTBAUER
Assistant Director
(707) 784-6765

MATT TUGGLE
Engineering Manager
(707) 784-6765

DEPARTMENT OF RESOURCE MANAGEMENT



SOLANO COUNTY

Public Works – Engineering Services Division

675 Texas Street, Suite 5500
Fairfield, CA 94533-6342
(707) 784-6765
Fax (707) 784-4805

www.solanocounty.com

April 15, 2020

COUNTY OF SOLANO COUNTY STATE OF CALIFORNIA

NOTICE TO BIDDERS, BID FORM, SPECIAL PROVISIONS, AGREEMENT AND RELATED CONTRACT DOCUMENTS FOR CONSTRUCTION OF

TIMM ROAD IMPROVEMENT PROJECT

ADDENDUM NO. 2

TO: ALL PROSPECTIVE BIDDERS

You are hereby notified of the following additions, changes and/or clarifications to the project plans and specifications:

1. Bid opening is rescheduled for **Monday, April 27th, 2019 at 2pm**, at the Solano County Administration Center (CAC), 675 Texas Street, Fairfield, California, 94533.
2. Page 11-13 shall be replaced with Attachment A, “Revised Bid Schedule”.
3. The Bidder’s attention should be directed to the Cut and Fill Table for Timm Road which is available at the BPXpress website at <http://www.solanormplanroom.com/>. The table provided is for information only and is not part of the Contract documents.
4. Pg. 82 Section 20 LANDSCAPE shall be deleted in its entirety and replaced with the following:

20 LANDSCAPE

20-2 IRRIGATION

20-2.01D Payment

The lump Sum unit price for Drip Irrigation System shall include removal of existing piping, temporary capping of the existing service line, trenching, backfill, installing supply line, leak testing, drip irrigation tubing, and emitters. Complete in-place as shown in the Revised Contract plans, and CALTRANS Standard Plans 2018, and specified in the 2018 CALTRANS Standard Specification.

20-3 PLANTING

20-3.01 GENERAL

Plant trees in conformance with Section 20-3.02C(3), except as follows:

The Contractor shall be responsible for maintaining trees in accordance with Section 20-4, Plant Establishment, for 90 calendar days after the trees are planted. Trees that are determined by the County's arborist to be non-viable at the end of 90 days shall be replaced. Replace trees in accordance with Section 20-3.01C(4).

20-3 .03D Payment

Payment quantity for plant trees is measured by a count of the living plants in place at the end of 90 calendar days from the time of planting.

20-10.03 EXISTING PLANTING

20-10.03C(3) Transplant Trees

Transplant trees and shrubs as shown in the plans to a location as determined by the Engineer in accordance with Section 20-10.03C of the Standard Specifications, except as follows:

The Contractor shall be responsible for maintaining trees and shrubs in accordance with Section 20-4, Plant Establishment, for 90 calendar days after the trees and shrubs are transplanted and the irrigation system is installed. Trees and shrubs that are determined by the County's arborist to be non-viable at the end of 90 days shall be replaced by Contractor. Replace trees in accordance with Section 20-3.01C(4).

1. Flowering Shade trees: Chanticleer pear or fruitless pear
2. Shrubs: Photinia Fraseri

Replace trees and shrubs in accordance with Section 20-3.01C(4).

20-10 .03D Payment

The contract unit price paid by each for Transplant Tree or Transplant Shrub shall include full compensation for pruning, removing, relocating, excavation, backfill, clean-up and replacement as required by the Contractor.

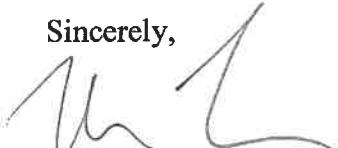
5. Sheet 6 of the Plan Set has been revised to show changes in driveway slopes.
6. Sheet 10 of the Plan Set has been revised to show additional work beyond Right of Way.
7. Sheet 24 of the Plan Set is to be deleted.
8. Structural sections for reconstruct driveway shall be as follows:

Existing concrete driveways: 5 1/2" thick concrete reinforced with #4 Reinforcing Bar at 18" on-center each-way at mid-depth, over 2" of compacted 3/4" AB.

Existing AB or AC driveway: Pave with 2" of HMA over 6" of compacted AB to the right of way. Conform paving over existing AC driveway may be necessary, and will be limited to 3" maximum thickness, as determined by the Engineer.

9. No soils report is available for the Project. Bidders/Contractor should anticipate excavation soils to generally include stiff to very stiff silty clays/sandy clays. From Sta 21+00 to 27+00, excavation soils should be anticipated to include very stiff to hard claystones, and medium dense to dense sandstones. Bidder should anticipate using equipment that is able to rip/scarify these materials as part of the contract work.
10. Exported material may be exported to County disposal site near the intersection of Hartley Road and Allendale Road. Deposited material must be spread and leveled before final payment for export is paid.
11. The roadway shall be closed at Rolling Hills Road and Lakeview Drive to through traffic during the installation of the concrete box culvert. Maintain access to local residents during this period. Upon completion of the culvert, the road shall be opened to through traffic, and two lane widths of traffic shall be made available to the public during the hours that Contractor is not actively working. During working hours maintain at least a 10' wide roadway with reversible traffic. The public will be allowed to drive on an unpaved surface, but the roadway must be maintained in a safe condition.
12. Attention is directed to the deleted plan sheet 24. This sheet was incorrectly labeled as "Keystone Retaining Wall East Side." This sheet should have been labeled "Keystone Retaining Wall WEST Side." This addendum is deleting the West Side Wall in its entirety, and keeping the East Side Wall as shown on Sheet 23.

Sincerely,



Matt Tuggle
Engineering Manager

ATTACHMENT A
TIMM ROAD IMPROVEMENT PROJECT
REVISED BID SCHEDULE

Item No.	Description	Unit	Quantity	\$/Unit	Total
1	MOBILIZATION	LS	1		
2	FLAGGING STRAIGHT TIME(S) *	HRS	1,440	\$ 53.37	\$ 76,852.80
3	FLAGGING OVERTIME * (S)	HRS	360	\$ 63.00	\$ 22,680.00
4	TRAFFIC CONTROL SYSTEM FOR ROAD CLOSURE	LS	1		
5	TRAFFIC CONTROL SYSTEM FOR LANE CLOSURE	LS	1		
6	CONSTRUCTION AREA SIGNS	LS	1		
7	TYPE III BARRICADES	EA	11		
8	BARRIER RAIL (TYPE K)	LF	120		
9	SWPPP	LS	1		
10	CONCRETE WASHOUT	EA	2		
11	SILT FENCE	LF	100		
12	FIBER ROLLS	LF	200		
13	REMOVE AND DISPOSE CONCRETE CULVERT	LS	1		
14	POTHOLING (VACTOR EXTRACTION)	EA	14		
15	RECONSTRUCT DRIVEWAY	SF	13,872		
16	RAISE IRON	EA	3		
17	TEMPORARY FENCE (T POST W/WIRE MESH)	LF	250		
18	TREE REMOVAL	EA	3		
19	CLEARING AND GRUBBING	LS	1		
20	EXPORT (F)	CY	2,300		
21	ROADWAY EXCAVATION (F)	CY	15,622		
22	STRUCTURAL EXCAVATION (BOX CULVERT) (F)	CY	151		
23	CHANNEL EXCAVATION (BOX CULVERT) (F)	CY	15		
24	STRUCTURAL BACKFILL (BOX CULVERT) (F)	CY	72		
25	PLANT TREE ESTABLISHMENT	LS	1		
26	EROSION CONTROL (JUTE NETTING ECTC TYPE 3B)	SY	444		
27	EROSION CONTROL (HYDROMULCH AND HYDROSEED)	SY	2,236		
28	FINISH ROADWAY	LS	1		
29	CLASS II AGGREGATE BASE	CY	4,073		
30	HOT MIX ASPHALT (1/2" TYPE A)	TON	1,716		
31	HOT MIX ASPHALT (3/4" TYPE A)	TON	1,537		
32	HMA EDGE WIDENING (3/4" TYPE A)	SF	21,539		
33	HMA LEVELING COURSE (1/2" TYPE A)	TON	127		
34	KEYSTONE RETAINING WALL	SF	1,023		
35	ULTRABLOCK RETAINING WALL (FULL OR HALF)	EA	55		

36	ULTRABLOCK RETAINING WALL (FULL FLAT OR FULL FLAT CAP)	EA	40		
37	STRUCTURE CONCRETE (HEADWALLS & WINGWALLS)	CY	76		
38	FURNISH PRECAST CONCRETE BOX CULVERT (F)	CY	38		
39	INSTALL PRECAST CONCRETE BOX CULVERT	LF	80		
40	BAR REINFORCING STEEL (F) (HEADWALL, WINGWALL , RAT SLAB)	LBS	7,880		
41	18" DIA. HDPE PIPE (TYPE S)	LF	45		
42	15" DIA. CORRUGATED METAL PIPE (CMP)	LF	320		
43	18" DIA. CORRUGATED METAL PIPE (CMP)	LF	50		
44	24" DIA. CORRUGATED METAL PIPE (CMP)	LF	50		
45	ABANDON CULVERT	EA	1		
46	ROCK SLOPE PROTECTION (CLASS I NOMINAL WT 20#)	SF	966		
47	ROCK SLOPE PROTECTION (CLASS III NOMINAL WT 150#)	SF	288		
48	RELOCATE MAILBOX	EA	19		
49	CHAIN LINK FENCE	LF	436		
50	RANCHER GATE	EA	4		
51	SLIDING CHAIN LINK GATE	EA	1		
52	GUARD RAILING DELINEATOR	EA	4		
53	METAL POST MARKER (CULVERT MARKER)	EA	14		
54	ROADSIDE SIGN (S)	EA	13		
55	REMOVE AND REPLACE ROADSIDE SIGN (S)	EA	9		
56	REMOVE AND SALVAGE ROADSIDE SIGN	EA	5		
57	RELOCATE ROADSIDE SIGN (S)	EA	2		
58	STEEL POST (W6X9) W/BASE PLATE AND ANCHORS	EA	4		
59	MIDWEST GUARDRAIL SYSTEMS (MGS) (STEEL POSTS)	LF	50		
60	TERMINAL SYSTEM (TYPE MSKT-SP-MGS-TL3)	EA	4		
61	REMOVE AND SALVAGE EXISTING GUARDRAIL	LF	250		
62	REMOVAL AND DISPOSAL OF TREATED WOOD WASTE	TON	1.09		
63	THERMOPLASTIC TRAFFIC STRIPE - DETAIL 6 (4 INCH - YELLOW) (S)	LF	505		
64	THERMOPLASTIC TRAFFIC STRIPE - DETAIL 19 (4 INCH - YELLOW) (S)	LF	2,044		
65	THERMOPLASTIC TRAFFIC STRIPE - DETAIL 22 (4 INCH - YELLOW) (S)	LF	2,009		
66	THERMOPLASTIC TRAFFIC STRIPE - DETAIL 27B (4 INCH - WHITE) (S)	LF	340		
67	THERMOPLASTIC TRAFFIC STRIPE - DETAIL 39 (6 INCH - WHITE) (S)	LF	7,953		
68	THERMOPLASTIC TRAFFIC STRIPE - DETAIL 39A (6 INCH - WHITE) (S)	LF	800		
69	THERMOPLASTIC MARKINGS (S)	SF	396		
70	MINOR CONCRETE (6 INCH RAT SLAB) (F)	CY	12		
70	MINOR CONCRETE (6 INCH CONC. DRIVEWAY)	SF	655		

74	GEOSYNTHETICS PAVEMENT INTERLAYER (PAVING FABRIC)	SY	15,824		
71	MINOR CONCRETE (6 INCH CONC. DRIVEWAY)	SF	1,555		
72	GEOSYNTHETICS PAVEMENT INTERLAYER (PAVING FABRIC)	SY	15,824		
73	IRRIGATION SYSTEM	LS	1		
74	TRANSPLANT BUSHES (PHOTINIA FRASERI)	EA	13		
75	TRANSPLANT TREE (>6")	EA	4		
76	TRANSPLANT TREE (<6")	EA	2		
77	BARBED WIRE FENCE	LF	265		
				GRAND TOTAL	

*NOTE: Flagging shall be paid in accordance with "TEMPORARY TRAFFIC CONTROL" in these Special Provisions. The Contractor will be paid at the listed unit price for these items. This rate includes all markups. Listed Quantity is for bid purposes only. Payment will be based upon actual hours used.

** Section 9-1.06 "CHANGED QUANTITY PAYMENT ADJUSTMENTS". Unit price adjustment resulting from a change of more than 25% does not apply to these items.

