

# Exhibit 2: Engineering Drawings

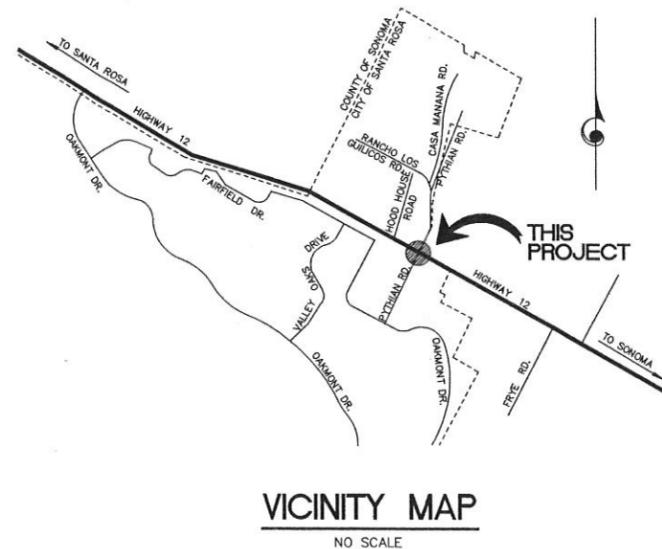
## SONOMA COUNTY REGIONAL PARKS IMPROVEMENT PLANS FOR RIDGE TRAIL EXTENSION PROJECT: LOS GUILICOS TO HIGHWAY 12 SANTA ROSA, CALIFORNIA



**LOCATION MAP**  
NO SCALE

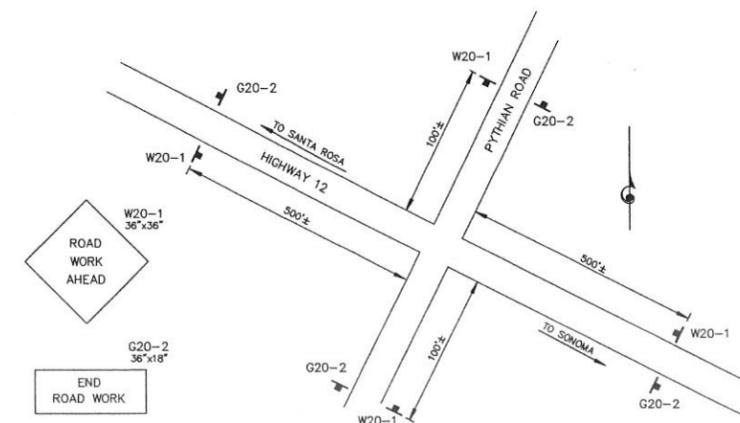
### NOTES :

1. ALL WORKMANSHIP, MATERIALS AND CONSTRUCTION SHALL CONFORM TO THE STATE OF CALIFORNIA STANDARD PLANS AND CONSTRUCTION SPECIFICATIONS FOR PUBLIC IMPROVEMENTS, DATED MAY 2006.
2. THE CONTRACTOR SHALL CALL UNDERGROUND SERVICE ALERT (USA) AT (800) 642-2444 FOR MARKOUTS OF EXISTING UNDERGROUND FACILITIES AT LEAST TWO WORKING DAYS PRIOR TO ANY EXCAVATION.
3. PRIOR TO COMMENCING WORK ON THIS PROJECT, THE CONTRACTOR SHALL CALL THE PUBLIC WORKS COORDINATORS AT AT&T, SBC, AND PACIFIC GAS AND ELECTRIC TO NOTIFY THEM OF THE IMPENDING UNDERGROUND CONSTRUCTION.
4. THE LOCATION OF PG&E, TELEPHONE, CABLE, SEWER AND WATER UTILITIES SHOWN ON THESE PLANS ARE BASED ON THE BEST AVAILABLE PLAN INFORMATION. BAECHTEL HUDIS INC. ASSUMES NO RESPONSIBILITY FOR THIS INFORMATION OR THE INADVERTENT OMISSION OF ANY SUCH INFORMATION.
5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGES TO STATE OR OTHER UTILITIES CAUSED BY HIS OPERATIONS PER SECTION 7-1.11 OF THE STATE STANDARD SPECIFICATIONS.
6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OFF-SITE DISPOSAL OF ALL BITUMINOUS PAVEMENT, CONCRETE AND REINFORCEMENT, AND SPOILS NOT NEEDED FOR BACKFILL, AS REQUIRED BY THE ENGINEER AND PER SPECIFICATIONS.
7. THE CONTRACTOR SHALL OBTAIN A TRENCH SAFETY PERMIT FROM THE CALIFORNIA DIVISION OF INDUSTRIAL SAFETY PRIOR TO EXCAVATION OF ANY TRENCH STATE DEPARTMENT OF INDUSTRIAL SAFETY.
8. THE CONTRACTOR AGREES THAT IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, CONSTRUCTION CONTRACTOR WILL BE REQUIRED TO ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THE PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY; THAT THIS REQUIREMENT SHALL BE MADE TO APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS, AND CONSTRUCTION CONTRACTOR FURTHER AGREES TO DEFEND, INDEMNIFY AND HOLD PROFESSIONAL HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPTING FOR LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF DESIGN PROFESSIONAL.
9. THE CONTRACTOR SHALL POSSESS THE CLASS (OR CLASSES) OF LICENSE AS SPECIFIED IN THE 'NOTICE TO CONTRACTORS' CONTAINED IN THE 'INVITATION FOR BIDS' OF THIS PROJECT.
10. ALL TRAFFIC CONTROL SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE CALIFORNIA DEPARTMENT OF TRANSPORTATION MANUAL OF TRAFFIC CONTROLS FOR CONSTRUCTION AND MAINTENANCE OF WORK ZONES, CITY OF SANTA ROSA TRAFFIC STANDARD PLANS 740 THROUGH 741. ALL SIGNS SHALL BE APPROPRIATELY CONSTRUCTED WITH REFLECTIVE MATERIAL ON A BACKING OF METAL OR FABRIC (NO WOOD OR PLASTIC ALLOWED) AND SHALL BE MAINTAINED THROUGHOUT CONSTRUCTION TO PROVIDE PROPER VISIBILITY.



### INDEX

1. TITLE SHEET
2. DEMOLITION PLAN - IMPROVEMENT PLAN
3. SIGNAL MODIFICATION PLAN - SCHEDULE
4. RANCHO LOS GUILICOS RD, PED RAMP



### CONSTRUCTION SIGN NOTES:

1. SIGNS SHOWN ON THIS PLAN ARE TO BE STATIONARY MOUNTED ON 4x4 WOOD POSTS.
2. SIGN LOCATIONS SHOWN ON THIS PLAN ARE APPROXIMATE ONLY. ALL SIGNS TO BE FIELD LOCATED.
3. ALL POST MOUNTED SIGNS SHOWN ON THIS PLAN ARE TO BE IN PLACE BEFORE ANY WORK IN THIS CONTRACT COMMENCES.

### CONSTRUCTION AREA SIGNS

NO SCALE

### BENCHMARK:

SONOMA COUNTY WATER AGENCY BENCHMARK NO. 33. A 3/4" IRON PIPE WITH PLASTIC PLUG MARKED "SCWA CONTROL" 35'± WEST OF TWO WITNESS TREES (N&S) WEST OF PAVED ACCESS ROAD (NOT PYTHIAN ROAD). ELEVATION = 499.79

STATE OF CALIFORNIA  
APPLICABLE STANDARD PLANS  
Dated May, 2006

ES-1A	ES-3C	ES-7E
ES-1B	ES-4C	ES-7N
ES-2C	ES-4E	ES-7M
ES-2E	ES-5C	ES-8
A86	ABB	ES-13A
A87	D94A	

THE CONTRACTOR'S FIRST ORDER OF WORK SHALL BE TO DETERMINE THE LOCATIONS OF ALL UNDERGROUND AND OVERHEAD UTILITIES THROUGH HIS COORDINATION WITH U.S.A. AND THE VARIOUS UTILITIES. SHOULD UTILITIES REQUIRE RELOCATION, THE CONTRACTOR SHALL CONTACT AND COORDINATE THE RELOCATION WITH THE UTILITY OR UTILITIES INVOLVED. IN ANY CHANCE OF CONFLICT, HAND DIG TO VERIFY LOCATION.



Revisions	By

**BAECHTEL HUDIS**  
CONSULTING CIVIL ENGINEERS & PLANNERS  
2380 PROFESSIONAL DRIVE  
SANTA ROSA, CALIF. 95403  
(707) 542-8785

IMPROVEMENT PLANS FOR  
**RIDGE TRAIL EXTENSION PROJECT:  
LOS GUILICOS TO HIGHWAY 12**  
TITLE SHEET

Date JULY 16, 2009  
Scale NO SCALE  
Drawn G.J.G.  
Design G.J.G.  
SHEET  
1  
of 4 Sheets  
Job 08009



# Exhibit 2: Engineering Drawings

DIST	COUNTY	ROUTE	KILOMETER POST MILE TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04	Son	12	24.62	3	4

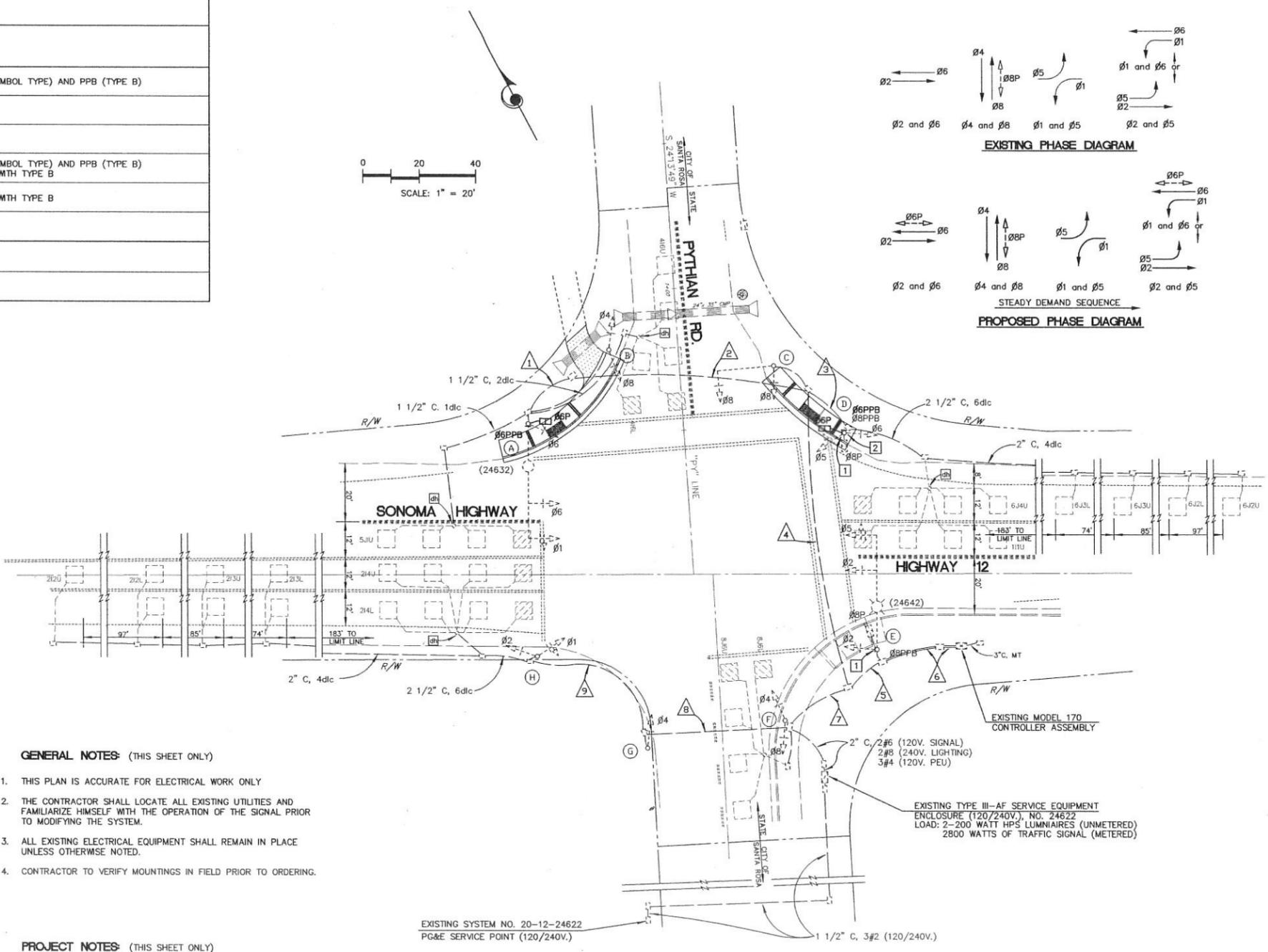
Revisions	By

NO.	STANDARD		VEH SIG MTO		PED SIGNAL		PPB	HPS LUMINAIRE	SPECIAL REQUIREMENTS			
	TYPE	SIZE	MA	LUM MA	MEET ARM	POLE	Ø	MTG		Ø	ARROW	
(A)	26-4-70	40	15	MAS	MAS	SV-1-T	6	SP-1-T	6	→	200 W	INSTALL PED SIGNAL (SYMBOL TYPE) AND PPB (TYPE B)
(B)	1B					TV-2-T						
(C)	16-1-70	20		MAS		SV-1-T						
(D)	1-B					SV-2-T	8	SP-2-T	8	→		INSTALL PED SIGNAL (SYMBOL TYPE) AND PPB (TYPE B) REPLACE EXISTING PPB WITH TYPE B
(E)	26-4-70	40	15	MAS	MAS	SV-1-T	8	SP-1-T	8	→	200 W	REPLACE EXISTING PPB WITH TYPE B
(F)	1-B					TV-2-T						
(G)	1-B					TV-1-T						
(H)	1-B					TV-2-T						

NOTES: EXCEPT AS OTHERWISE SHOWN, POLE SCHEDULE EQUIPMENT IS EXISTING.

CONDUCTOR NUMBER	CONDUIT RUN													
	1	2	3	4	5	6	7	8	9	10	11	12	13	14
CONDUIT SIZE	2 1/2"	3"	2 1/2"	3"	3"	2-3"	3"	3"	2 1/2"					
#14 CONDUCTORS														
Ø1 Veh	3	3		3	3	6	3	3	3					
Ø2 Veh						6	3	3	3					
Ø4 Veh	3	3		3	3	6	3	3	3					
Ø5 Veh				3	3	6								
Ø6 Veh	3	3		3	3	6	6	6						
Ø8 Veh	3	3		3	3	6	3							
Ø2 Ped (Future Use)						2	2	2	2					
Ø4 Ped (Future Use)	2	2		2	2	4	2	2						
Ø6 Ped *	2	2		2	2	2	2	2						
Ø8 Ped				2	2	4	2							
Ø2 PPB (Future Use)						1	1	1						
Ø4 PPB (Future Use)	1	1		1	1	2	1	1	1					
Ø6 PPB *	1	1		1	1	1	1							
Ø8 PPB				1	1	1								
P.E.U.						3								
SPARE	3	3		3	3	6	3	3	3					
PPB Neutral	1	1		1	1	1	1	1	1					
TOTAL #14	22	22		13	31	31	60	27	19	13				
DETECTOR CABLES														
6J2U				1	1	1	1							
6J2L				1	1	1	1							
6J3U				1	1	1	1							
6J3L				1	1	1	1							
6J4U				1	1	1	1							
111U				1	1	1	1							
4I6U,4I6L	2	2		2	2	2								
2I2U						1	1	1	1					
2I2L						1	1	1	1					
3I3U						1	1	1	1					
2I3L						1	1	1	1					
2I4U						1	1	1	1					
2I4L						1	1	1	1					
5J1U	1	1		1	1	1	1							
6J5U,6J6L						2	2							
TOTAL CABLES	3	3		6	6	9	17	8	6	6				
#8 CONDUCTORS														
Lighting (240V)	2	2		2	2	2								
TOTAL #8	2	2		2	2	2								
#6 CONDUCTORS														
Signal Neutral	1	1		1	1	1	2	1	1	1				
120V Service to Controller							2							
TOTAL #6	1	1		1	1	1	4	1	1	1				
CONDUIT SIZE	2 1/2"	3"	2 1/2"	3"	3"	2-3"	3"	3"	2 1/2"					

\* INSTALL NEW PEDESTRIAN SIGNAL AND PEDESTRIAN PUSH BUTTON ON EXISTING STANDARDS, CONNECT TO EXISTING CONDUCTORS.



- GENERAL NOTES:** (THIS SHEET ONLY)
- THIS PLAN IS ACCURATE FOR ELECTRICAL WORK ONLY
  - THE CONTRACTOR SHALL LOCATE ALL EXISTING UTILITIES AND FAMILIARIZE HIMSELF WITH THE OPERATION OF THE SIGNAL PRIOR TO MODIFYING THE SYSTEM.
  - ALL EXISTING ELECTRICAL EQUIPMENT SHALL REMAIN IN PLACE UNLESS OTHERWISE NOTED.
  - CONTRACTOR TO VERIFY MOUNTINGS IN FIELD PRIOR TO ORDERING.

- PROJECT NOTES:** (THIS SHEET ONLY)
- REPLACE PEDESTRIAN PUSH BUTTONS WITH NEW TYPE B PEDESTRIAN PUSH BUTTONS AT CORRECT MOUNTING HEIGHT.
  - INSTALL SP-2-T PEDESTRIAN SIGNAL MOUNTING.

## SIGNAL MODIFICATION PLAN

CALIFORNIA DEPARTMENT OF TRANSPORTATION			
APPROVED	<i>Elamending</i>	6/18/09	DATE
FOR ELECTRICAL FEATURES AFFECTING STATE FACILITIES			
CO.	ROUTE	PM	PERMIT NUMBER
SON	12	24.62	0408-NMC2229



BAECHTEL HUDIS  
CONSULTING CIVIL ENGINEERS & PLANNERS  
2380 PROFESSIONAL DRIVE  
SANTA ROSA, CALIF. 95403  
(707) 542-8765

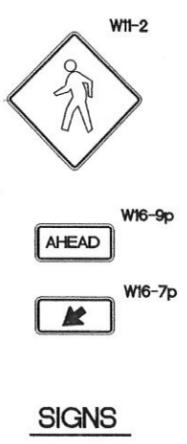
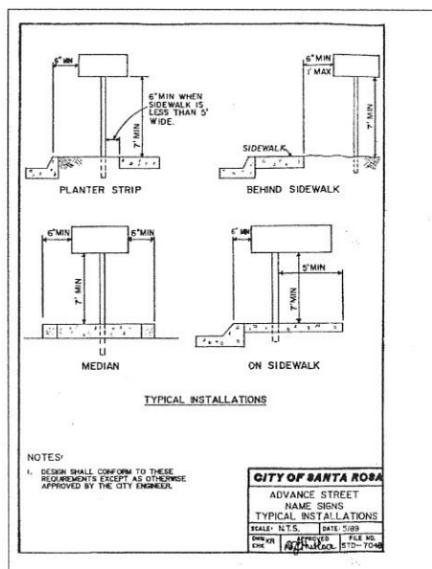
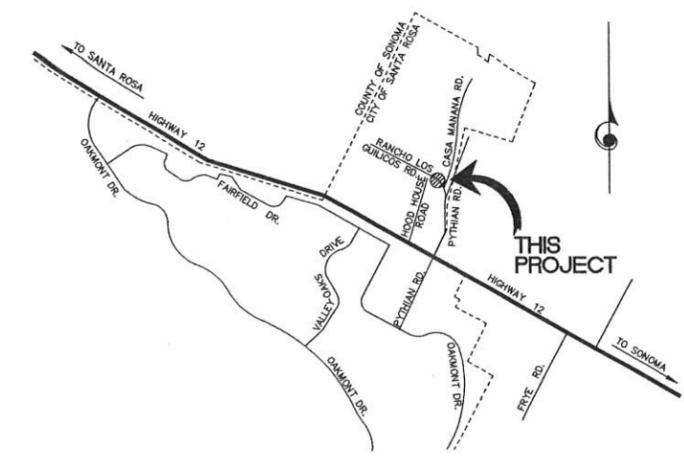
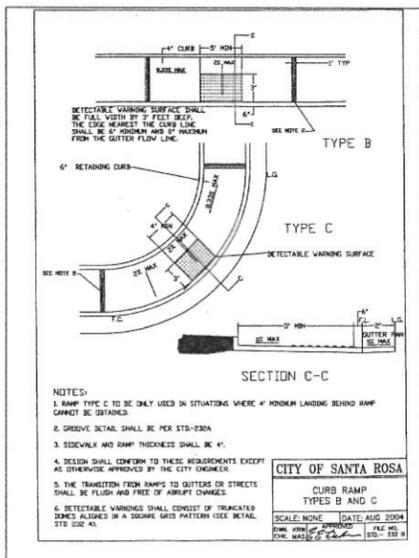
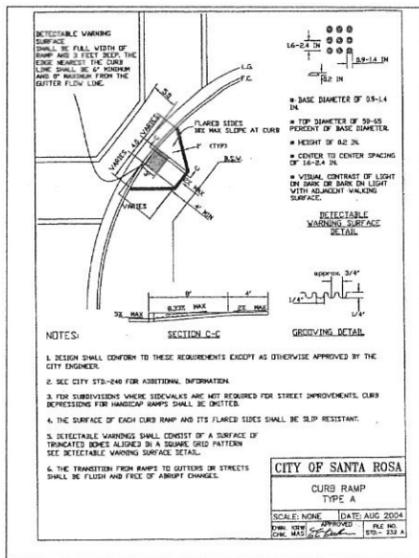
IMPROVEMENT PLANS FOR  
RIDGE TRAIL EXTENSION PROJECT:  
LOS GUILICOS TO HIGHWAY 12  
SIGNAL MODIFICATION PLAN - SCHEDULE

Date	JULY 16, 2009
Scale	1" = 20'
Drawn	G.J.G.
Design	G.J.G.
SHEET	3
of 4 Sheets	
Job	08009

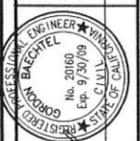
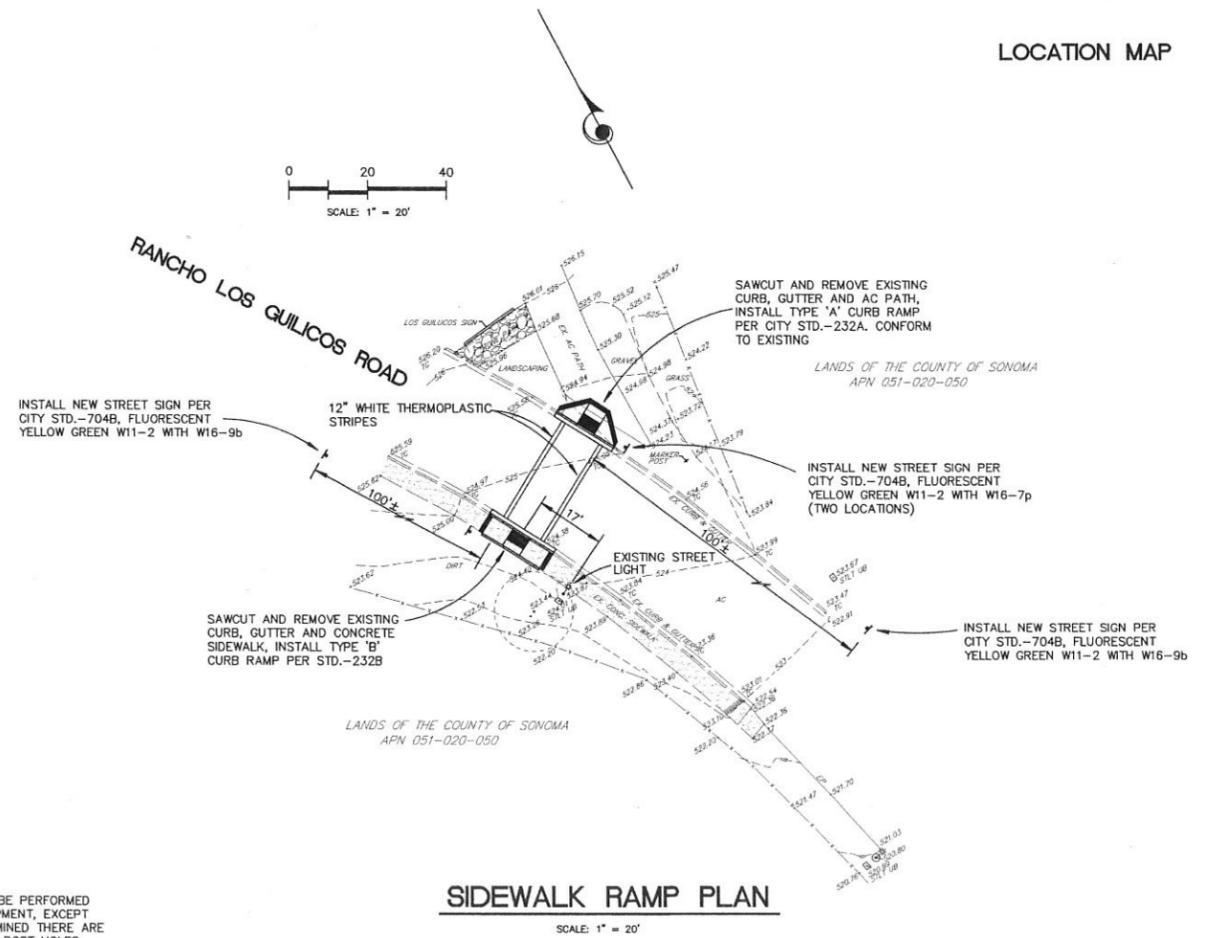
# Exhibit 2: Engineering Drawings

DIST	COUNTY	ROUTE	KILOMETER POST MILE TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04	Son	12	24.62	4	4

Revisions	By



- NOTES:**
- ALL EXCAVATIONS REQUIRED TO INSTALL 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.
  - SIGN LOCATIONS SHOWN ON THIS PLAN ARE APPROXIMATE ONLY. ALL SIGNS TO BE FIELD LOCATED.



*Baechtel Hudis*  
SUBMITTED

**BAECHTEL HUDIS**  
CONSULTING CIVIL ENGINEERS & PLANNERS  
2360 PROFESSIONAL DRIVE  
SANTA ROSA, CALIF. 95403  
(707) 542-8795

IMPROVEMENT PLANS FOR  
**RIDGE TRAIL EXTENSION PROJECT:  
LOS GUILICOS TO HIGHWAY 12**  
RANCHO LOS GUILICOS ROAD PEDESTRIAN CROSSING

Date	JULY 16, 2009
Scale	1" = 20'
Drawn	G.J.G.
Design	G.J.G.
SHEET	<b>4</b>
of 4 Sheets	
Job	08009