

THE BOARD OF SUPERVISORS OF THE COUNTY OF STANISLAUS  
ACTION AGENDA SUMMARY

DEPT: Public Works *MP*

BOARD AGENDA # \*C-3

Urgent  Routine

AGENDA DATE January 26, 2010

CEO Concur with Recommendation YES  NO   
(Information Attached)

4/5 Vote Required YES  NO

SUBJECT:

Approval to Adopt Plans and Specifications for the Grayson Road Bridge at Laird Slough and Set the Bid Opening Date

STAFF RECOMMENDATIONS:

1. Adopt plans and specifications for the Grayson Road Bridge at Laird Slough Project.
2. Direct the Department of Public Works to set the bid opening date and time for the Project.
3. Direct the Public Works Department to publish and mail a notice inviting bids to trade journals as required by law.
4. Direct the Auditor-Controller to make the necessary budget adjustments per the financial transaction sheet.

FISCAL IMPACT:

The total estimated cost for this project is \$301,761 that includes \$242,510 for construction, \$35,000 for construction engineering, and \$24,251 for contingency. The project will be funded by Federal funds, totaling \$106,996, and local funds totaling \$194,765. The local match is available in Public Works' Road fund. Department staff is currently in the process of seeking additional Federal funds for the project. At this time, \$5,000 is required for reproduction costs, advertisement costs and other miscellaneous costs associated with the bid process.

BOARD ACTION AS FOLLOWS:

No. 2010-050

On motion of Supervisor O'Brien, Seconded by Supervisor DeMartini

and approved by the following vote,

Ayes: Supervisors: O'Brien, Chiesa, Monteith, DeMartini, and Chairman Grover

Noes: Supervisors: None

Excused or Absent: Supervisors: None

Abstaining: Supervisor: None

1)  Approved as recommended

2)  Denied

3)  Approved as amended

4)  Other:

MOTION:

*Christine Ferraro*

ATTEST: CHRISTINE FERRARO TALLMAN, Clerk

File No.

Approval to Adopt Plans and Specifications for the Grayson Road Bridge at Laird Slough and Set the Bid Opening Date

**DISCUSSION:**

The Grayson Bridge at Laird Slough project (located on Grayson Road east of the town of Grayson) is for the seismic retrofit of the existing Grayson Road Bridge. The improvements include: the installation of longer seat extenders for reinforcement which involves the attachment of structural steel brackets below the existing concrete hinge diaphragms and the installation of rock slope protection (RSP) under the bridge on the east bank to fill a hole created by unauthorized excavation. The bridge improvements are required in order for the bridge to meet current seismic standards. The slope protection is required to prevent scour under the bridge.

On May 6, 2003, the California Department of Transportation (Caltrans) executed a E-76 agreement for the project construction phase thereby obligating \$106,996 of Federal funds. In January 2004, the design was complete and ready for bidding.

In April 2004, the Grayson Road Bridge at Laird Slough project design was suspended pending availability of local match funding.

In November 2006, Caltrans determined that the environmental phase required renewal due to more rigorous air quality and hazardous materials regulations.

In November 2009, County staff re-initiated this project to start the environmental process and to update the plans to current Caltrans and County standards.

On December 10, 2009, Caltrans issued a National Environment Policy Act (NEPA) Categorical Exclusion determination for the project.

Dokken Engineering has completed the plans and specifications for the Grayson Road Bridge at Laird Slough project. All environmental permits and right-of-way agreements have been obtained or are currently in the process of being renewed. The Department of Public Works staff recommends that the Board of Supervisors adopt the plans and specifications and set the bid opening date.

The following tentative schedule is provided:

Adopt Plans & Specifications	January 26, 2010
Advertise	April 5, April 12, 2010
Receive Bids	April 21, 2010
Award Contract	May 19, 2010
Notice to Proceed	June 1, 2010
Complete Construction	December 1, 2010

This project is exempt from the California Environmental Quality Act (CEQA) under Class 2, Section 15302 (Replace/Reconstruct) of the California Code of Regulations. On October 9, 2009, Stanislaus County issued a California Environmental Quality Act Categorical Exemption determination for the project.

Approval to Adopt Plans and Specifications for the Grayson Road Bridge at Laird Slough and Set the Bid Opening Date

**POLICY ISSUES:**

The Board should consider if the recommended actions are consistent with its priorities of providing a safe community, a healthy community and a well-planned infrastructure system.

**STAFFING IMPACT:**

There is no staffing impact associated with this item.

**ATTACHMENTS AVAILABLE  
FROM YOUR CLERK**

L:\BRIDGES\32-074\_9581 GRAYSON ROAD BRIDGE @ LAIRD SLOUGH\ADMINISTRATION\BOS ITEMS\Adopt & Bid (Bridge Widening & Retrofit).doc

## AUDITOR-CONTROLLER BUDGET JOURNAL



Balance Type	Budget	
Category	Budget - Upload	
Source		
Currency	USD	
Budget Name	LEGAL BUDGET	
Batch Name		BO#
Journal Name		
Journal description	Transfer budget to Grayson Rd Bridge at Laird Slough project	
Period	JUL-09 to JUN-10	
Organization	Stanislaus Budget Org	

Line	Coding Structure						Debit		Credit		Description
	Fund 4	Org 7	Account 5	G/L Proj 7	Loc 6	Misc 6	incr appropriations decr est revenue	decr appropriations incr est revenue			
1	1102	40310	27600	0	0	0.0	106,996.00				
2	1102	40310	27600	9581	0	0.0		106,996.00			
3	1102	40310	63280	9581	0	0.0	301,761.00				
4	1102	40310	65660	0	0	0.0		194,765.00			
5	1102	40310	63280	0	0	0.0		106,996.00			
6						.0					
7						.0					
8						.0					
9						.0					
10						.0					
11						.0					
12						.0					
13						.0					
14						.0					
15						.0					
16						.0					
17						.0					
18						.0					
19						.0					
20						.0					
21						.0					
22						.0					
23						.0					
24						.0					
25						.0					
<b>Totals</b>							<b>408,757.00</b>	<b>408,757.00</b>			

Transfer budget to Grayson Rd Bridge at Laird Slough project

---

<b>Requesting Department</b>		<b>Auditors Office Only</b>	
Sharon Andrews	<b>GEO</b>		
Signature	Signature	Prepared By	Admin Approval (\$75K+)
Date 1/14/10	Date 1/19/10	Date 1/17/10	Date 1/17/10

Contact Person & Phone Number

**INDEX OF SHEETS**

1. COVER SHEET
2. VICINITY PLAN
3. CONSTRUCTION AREA SIGNS
4. GENERAL PLAN
5. SEISMIC RETROFIT DETAILS
6. LOG OF TEST BORINGS [CURRENT]
7. LOG OF TEST BORINGS [PREVIOUS "AS-BUILTS"]

**STANISLAUS COUNTY**  
**DEPARTMENT OF PUBLIC WORKS**  
 PLANS FOR THE SEISMIC RETROFIT CONSTRUCTION OF  
**GRAYSON ROAD BRIDGE**  
**AT LAIRD SLOUGH**  
**(STATE BRIDGE NO. 38C-027)**

FEDERAL AID PROJECT  
 STPLZ-5938(100)

TO BE SUPPLEMENTED BY STANDARD PLANS, DATED MAY, 2006;  
 STANDARD SPECIFICATIONS, DATED MAY, 2006; AND ALL CURRENT  
 ADDENDA AND AMENDMENTS TO  
 STANDARD PLANS AND STANDARD SPECIFICATIONS



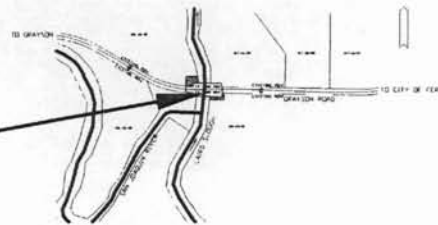
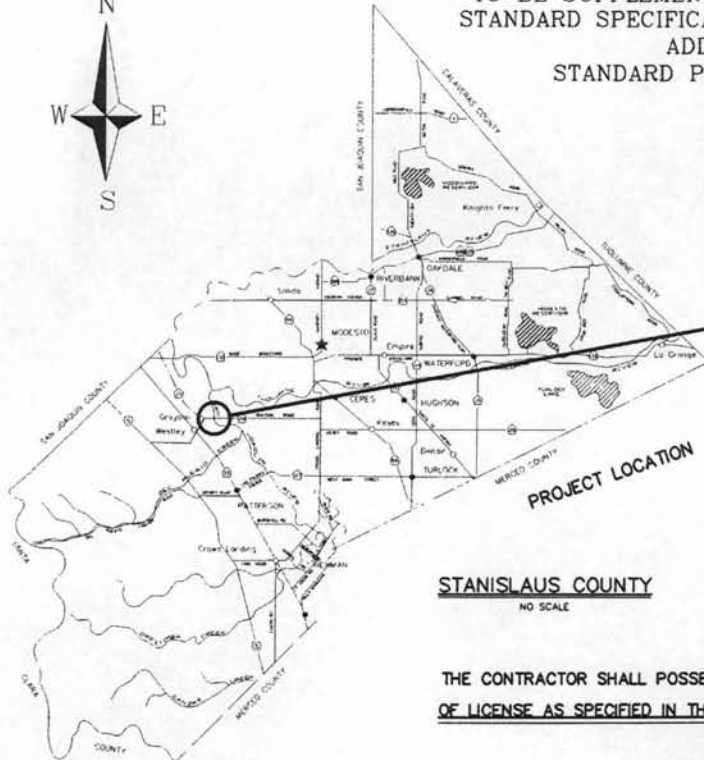
**STATE OF CALIFORNIA**

**DESIGN DESIGNATION**

ADT (2001) = 4,090  
 ADT (2021) = 8,458  
 T = N/A  
 V = 55 MPH(90 KMH)

STATE OF CALIFORNIA  
 DEPARTMENT OF TRANSPORTATION  
 STANDARD PLANS

A10A  
 A10B  
 RS1  
 RS2  
 T1.3  
 T17



**LENGTH OF PROJECT = ±407 L.F.**  
 NO SCALE

**STANISLAUS COUNTY**  
 NO SCALE

THE CONTRACTOR SHALL POSSESS THE CLASS (OR CLASSES)  
OF LICENSE AS SPECIFIED IN THE "NOTICE TO CONTRACTORS"

**COUNTY OF STANISLAUS**

MATT MACHADO, PE  
 DIRECTOR OF PUBLIC WORKS  
 DATE 1/13/2010

DAVID LEAMON, PE  
 SENIOR CIVIL ENGINEER  
 DATE 1/12/2010



M. MAECHLER, PE  
 PROJECT ENGINEER  
 DOKKEN ENGINEERING, INC.  
 DATE 1/12/2010



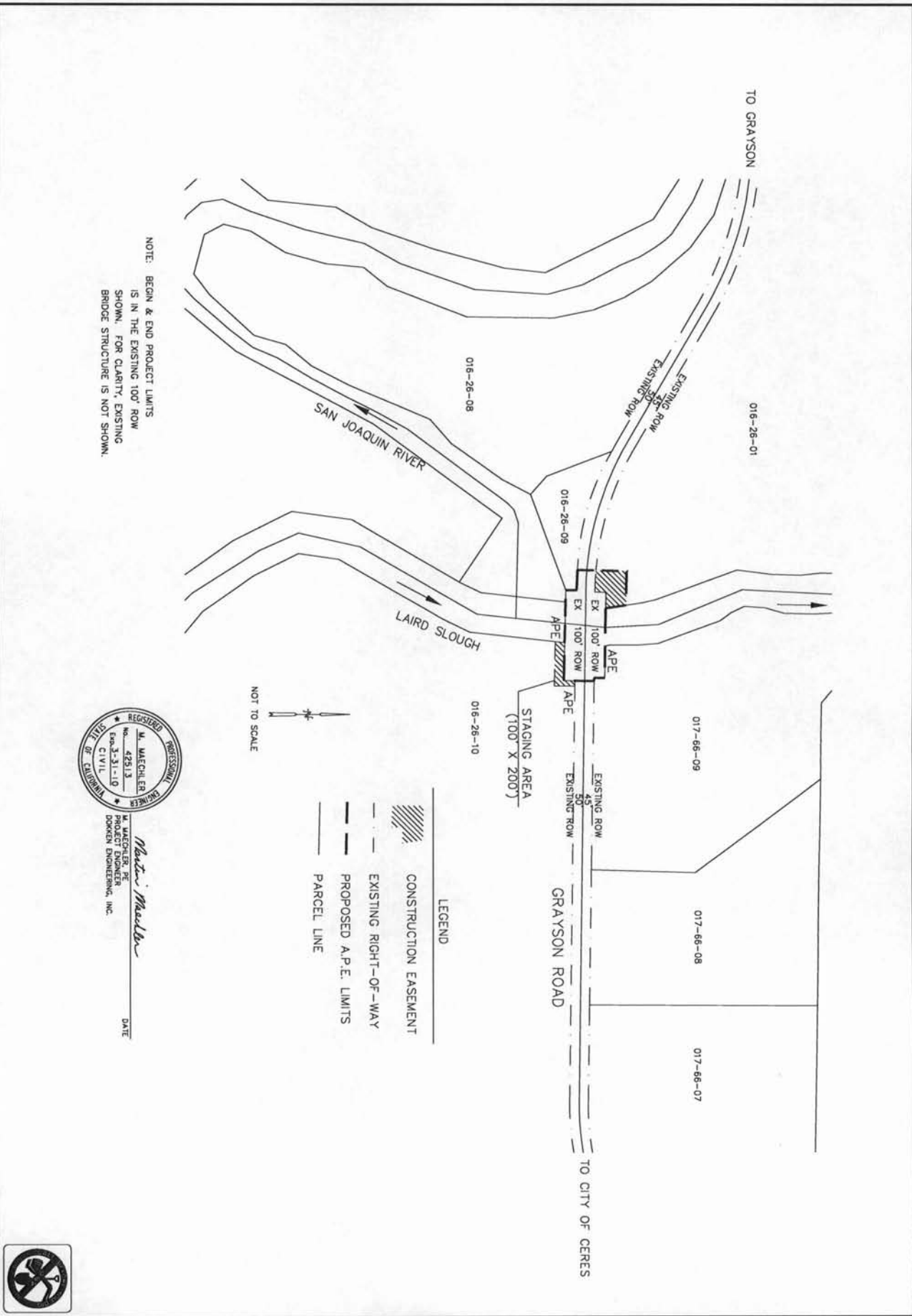
DATE	BY	REVISION

**STANISLAUS COUNTY**  
 DEPARTMENT OF PUBLIC WORKS  
 ENGINEERING AND OPERATIONS DIVISION  
 1716 MCKAY ROAD - MCKESSO, CA 95338



COVER SHEET  
 IMPROVEMENT PLANS FOR  
 GRAYSON ROAD BRIDGE AT LAIRD SLOUGH  
 FEDERAL AID PROJECT NO. STPLZ-5938(100)  
 STANISLAUS COUNTY

JOB NO. 00000
DATE
CH BY
CH BY
SCALE - AS SHOWN
SHEET NUMBER
1
OF 7 SHEETS



NOTE: BEGIN & END PROJECT LIMITS IS IN THE EXISTING 100' ROW SHOWN, FOR CLARITY, EXISTING BRIDGE STRUCTURE IS NOT SHOWN.

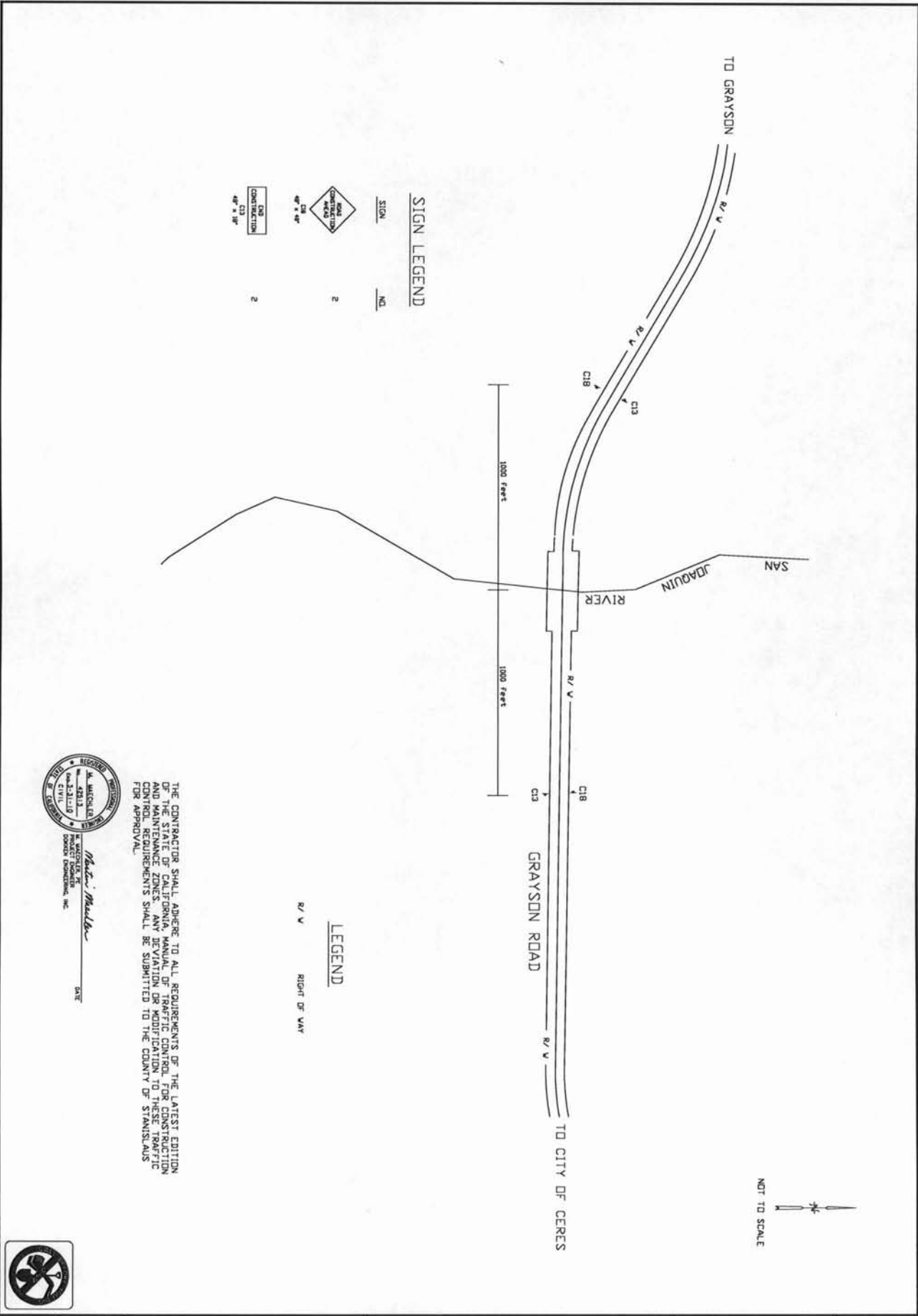


M. Maechler, PE  
PROJECT ENGINEER  
DORRIS ENGINEERING, INC.  
DATE


- LEGEND
- CONSTRUCTION EASEMENT
  - EXISTING RIGHT-OF-WAY
  - PROPOSED A.P.E. LIMITS
  - PARCEL LINE



<p>JOB NO. 000000</p> <p>DATE: 01/12/2010</p> <p>SCALE: AS SHOWN</p> <p>PROJECT NO. 100</p> <p>DATE: 01/12/2010</p> <p>SCALE: AS SHOWN</p>	<p>VICINITY PLAN</p> <p>IMPROVEMENT PLANS FOR:</p> <p>GRAYSON ROAD BRIDGE AT LAIRD SLOUGH</p> <p>FEDERAL AID PROJECT NO. STPLZ-5938(100)</p> <p>GRAYSON, CALIFORNIA</p>	<p><b>STANISLAUS COUNTY</b></p> <p>DEPARTMENT OF PUBLIC WORKS</p> <p>ENGINEERING AND OPERATIONS DIVISION</p> <p>1716 MORGAN ROAD - MODESTO, CA 95358</p>	<p>PROCESSED UNDER THE DIRECTION OF:</p> <p>DATE: _____</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>NO.</th> <th>REVISIONS</th> <th>DATE</th> <th>APPROVED</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table>	NO.	REVISIONS	DATE	APPROVED								
NO.	REVISIONS	DATE	APPROVED												



**SIGN LEGEND**

- |   |                                 |                         |
|---|---------------------------------|-------------------------|
| <br>48" x 48"<br>2 | SIGN<br>_____<br>48" x 48"<br>2 | _____<br>48" x 48"<br>2 |
|---|---------------------------------|-------------------------|

**LEGEND**

R/V RIGHT OF WAY

THE CONTRACTOR SHALL ADHERE TO ALL REQUIREMENTS OF THE LATEST EDITION OF THE STATE OF CALIFORNIA, MANUAL OF TRAFFIC CONTROL FOR CONSTRUCTION AND MAINTENANCE ZONES. ANY DEVIATION OR MODIFICATION TO THESE TRAFFIC CONTROL REQUIREMENTS SHALL BE SUBMITTED TO THE COUNTY OF STANISLAUS FOR APPROVAL.

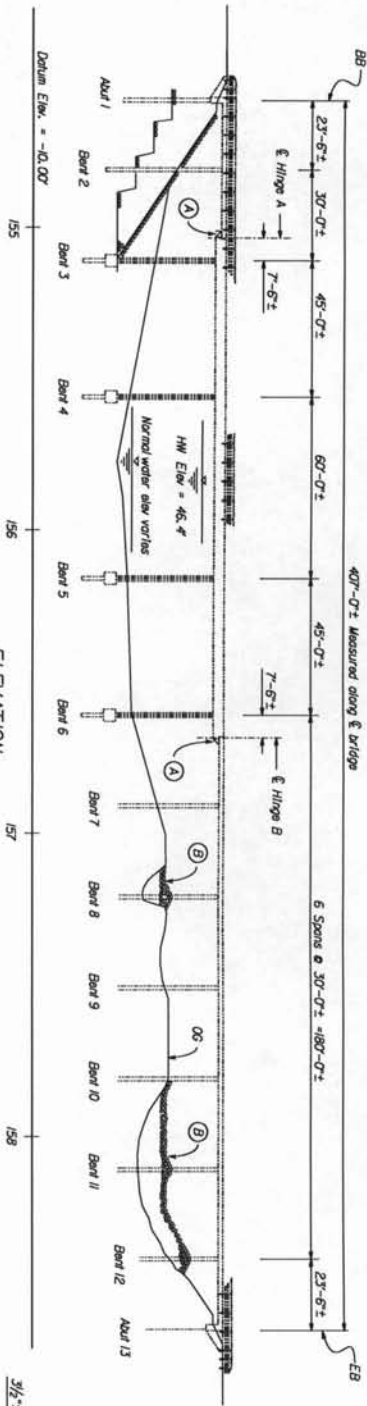


Matthew Mueller  
 PROJECT ENGINEER  
 CHUCK CONSTRUCTION, INC.  
 DATE



<p>DATE: 01/12/2010                  TIME: 10:00 AM                  DRAWN BY: JG                  CHECKED BY: JG                  PROJECT NO. STPLZ-5938(100)                  SCALE: AS SHOWN</p>	<p><b>CONSTRUCTION AREA SIGNS</b></p> <p>IMPROVEMENT PLANS FOR:  <b>GRAYSON ROAD BRIDGE AT LAIRD SLOUGH</b>                  FEDERAL AID PROJECT NO. STPLZ-5938(100)                  GRAYSON, CALIFORNIA</p>	 <p><b>STANISLAUS COUNTY</b>                  DEPARTMENT OF PUBLIC WORKS                  ENGINEERING AND OPERATIONS DIVISION                  1716 MORGAN ROAD - MODESTO, CA 95358</p>	<p>PREPARED UNDER THE DIRECTION OF:</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">NO.</td> <td style="width: 30%;">DESCRIPTION</td> <td style="width: 10%;">DATE</td> <td style="width: 10%;">APPROVED</td> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </table> <p>DATE: _____</p>	NO.	DESCRIPTION	DATE	APPROVED								
NO.	DESCRIPTION	DATE	APPROVED												

407'-0" Measured along bridge



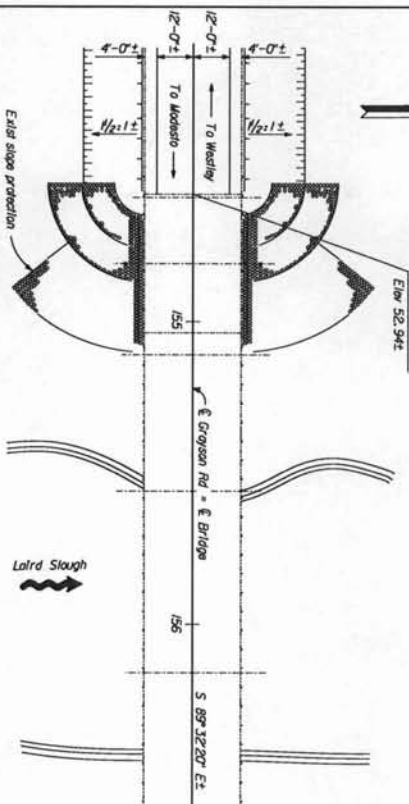
ELEVATION  
F-207

INDEX TO PLANS

Sheet No.	Title
4	General Plan
5	Seismic Retrofit Details
6	Log of Rail Bearings
7	As-Built Log of Rail Bearings

STANDARD PLANS DATED MAY, 2006

Sheet No.	Title
AOA	Acronyms And Abbreviations (Sheet 1 of 2)
AOB	Acronyms And Abbreviations (Sheet 2 of 2)
AOC	Symbols (Sheet 1 of 2)
AOD	Symbols (Sheet 2 of 2)



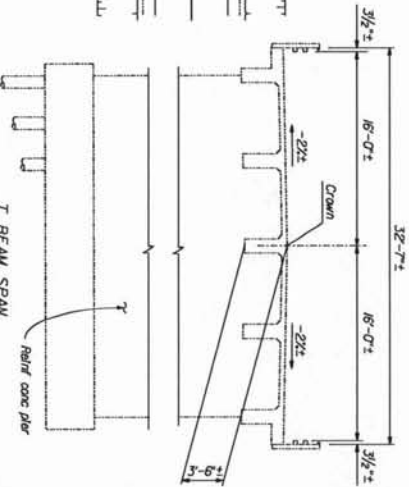
PLAN  
F-207

LEGEND

- Denotes existing structure
- - - - - Denotes new construction
- - - - - Denotes direction of traffic
- Denotes apron limits of scour hole
- Denotes direction of flow

RETROFIT LEGEND

- (A) Hinge Seat Extension
- (B) Rock Protection



TYPICAL SECTION  
F-5

DESIGN	BY	DATE	DESIGN	BY	DATE
DESIGN	J. Stover/A. Moschler		DESIGN	J. Stover	
DETAILS	C. Fletcher		DESIGN	C. Chengy/C. Torral	
QUANTITIES	J. Stover/A. Moschler		LAYOUT	K. Johnson	
			CONSTRUCTION	A. Moschler	

DESIGN	BY	DATE	DESIGN	BY	DATE
DESIGN	C. Chengy/C. Torral		DESIGN	C. Stoney	
DETAILS	C. Chengy/C. Torral		CONSTRUCTION	A. Moschler	
QUANTITIES	J. Stover/A. Moschler				

PREPARED FOR  
STANISLAUS  
COUNTY

M. Moschler  
PROJECT ENGINEER

CU 0532  
E.A. 05/29/09  
CARTER NO. 099297

GRAYSON ROAD BRIDGE AT LAIRD SLOUGH  
GENERAL PLAN

REGISTERED PROFESSIONAL ENGINEER  
M. C. MOSCHLER  
No. 42513  
Exp. 3-31-10  
Dokken Engineering Inc.  
1001 North Main Street  
Folsom, CA 95630

REGISTERED PROFESSIONAL ENGINEER  
M. C. MOSCHLER  
No. 42513  
Exp. 3-31-10  
Dokken Engineering Inc.  
1001 North Main Street  
Folsom, CA 95630

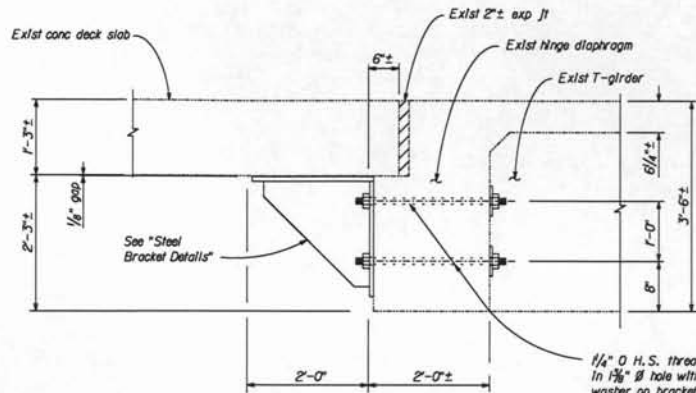
DIST.	COUNTY	ROUTE	POST MILES	SHEET TOTAL
				4
ID	NO.	TOTAL PROJECT	NO.	SHEETS
				7



DIST	COUNTY	ROUTE	POST MILES	SHEET NO.	TOTAL SHEETS
ID	Sta		TOTAL PROJECT	5	7

*Martin Maechler*  
REGISTERED CIVIL ENGINEER  
No. 42513  
Exp. 3-31-10  
CIVIL  
STATE OF CALIFORNIA

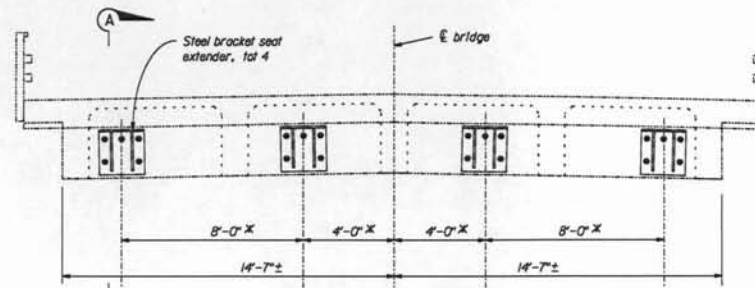
PLANS APPROVAL DATE  
Dokken Engineering  
2365 Iron Point Rd, Ste 200  
Folsom, CA 95630



**SECTION A-A**  
1' = 1'-0"

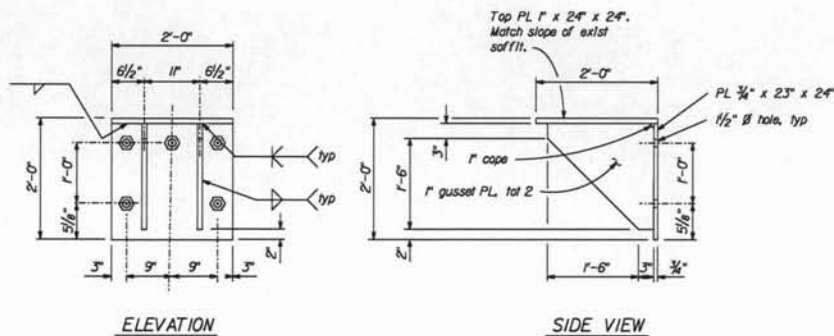
Note:  
Hinge A shown, Hinge B  
similar by opposite hand.

1/4" O.H.S. threaded rod (A 449)  
In 1 3/8" Ø hole with hex nut and cut  
washer on bracket side and hex nut  
and 1/2" x 6" x 5" plate on concrete  
side, tot 5 per bracket

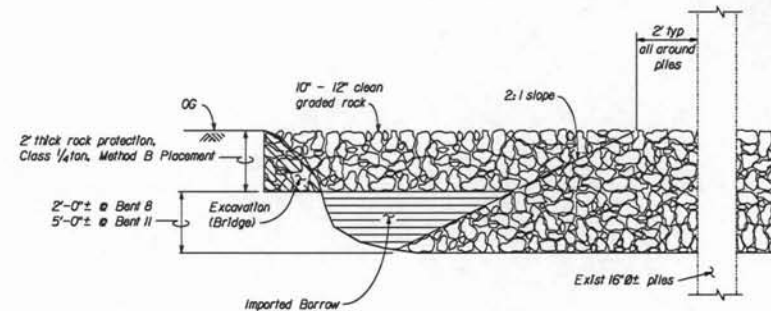


**HINGE SEAT ELEVATION**  
3/8" = 1'-0"

\* Contractor shall shift location of bracket as needed  
to miss exist vertical bar reinforcing steel.



**STEEL BRACKET DETAILS**  
1' = 1'-0"



**ROCK PROTECTION AT BENTS 8, 11 & 12**  
No Scale

Note:  
The Contractor shall verify all controlling  
field dimensions before ordering or  
fabricating any material.

**LEGEND**  
----- Denotes existing structure  
————— Denotes new construction

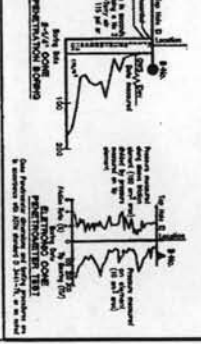
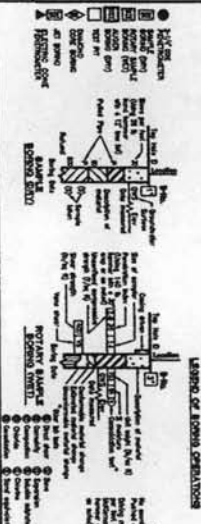
DESIGN				CHECKED				PREPARED FOR				BRIDGE NO.			
BY J. Shen/M. Maechler				C. Chenoy/C. Tornaol				STANISLAUS COUNTY				38C-0027			
DETAILS BY C. Houghton				CHECKED C. Chenoy/C. Tornaol				PROJECT ENGINEER M. Maechler				POST MILE			
QUANTITIES BY J. Shen/M. Maechler				CHECKED C. Chenoy/C. Tornaol				CU 10-152				DISREGARD PRINTS BEARING EARLIER REVISION DATES			
				ORIGINAL SCALE IN INCHES FOR REDUCED PLANS				E.A. 10-12101				REVISION DATES (PRELIMINARY STAGE ONLY)			
												SHEET 5 OF 7			

**SOILS CLASSIFICATION**  
 According to the Standard Penetration Test (SPT) (ASTM D 1586)

Penetration (blows/ft)	Soil Type	Soil Description
0-4	Very soft	Very soft clay
4-10	Soft	Soft clay
10-30	Medium	Medium clay
30-50	Stiff	Stiff clay
50-100	Very stiff	Very stiff clay
100-150	Hard	Hard clay
150-200	Very hard	Very hard clay
200+	Extremely hard	Extremely hard clay

**LEGEND OF SOIL MATERIALS**

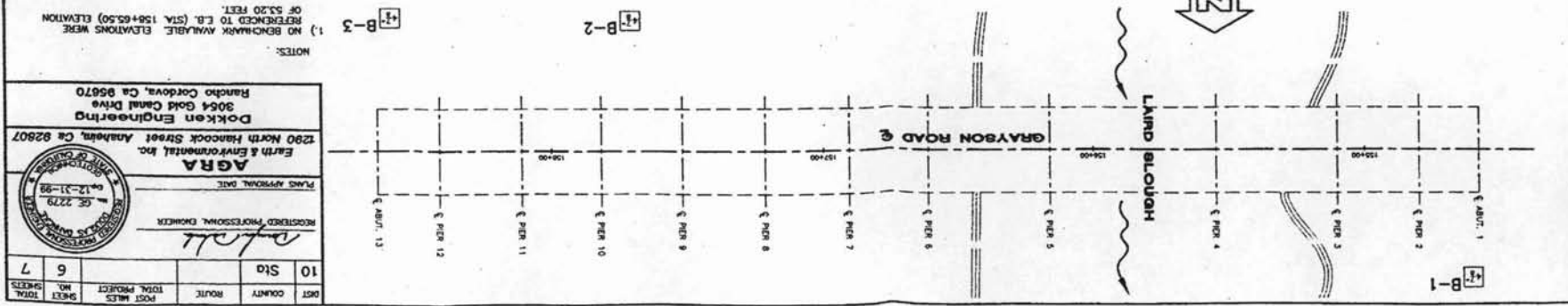
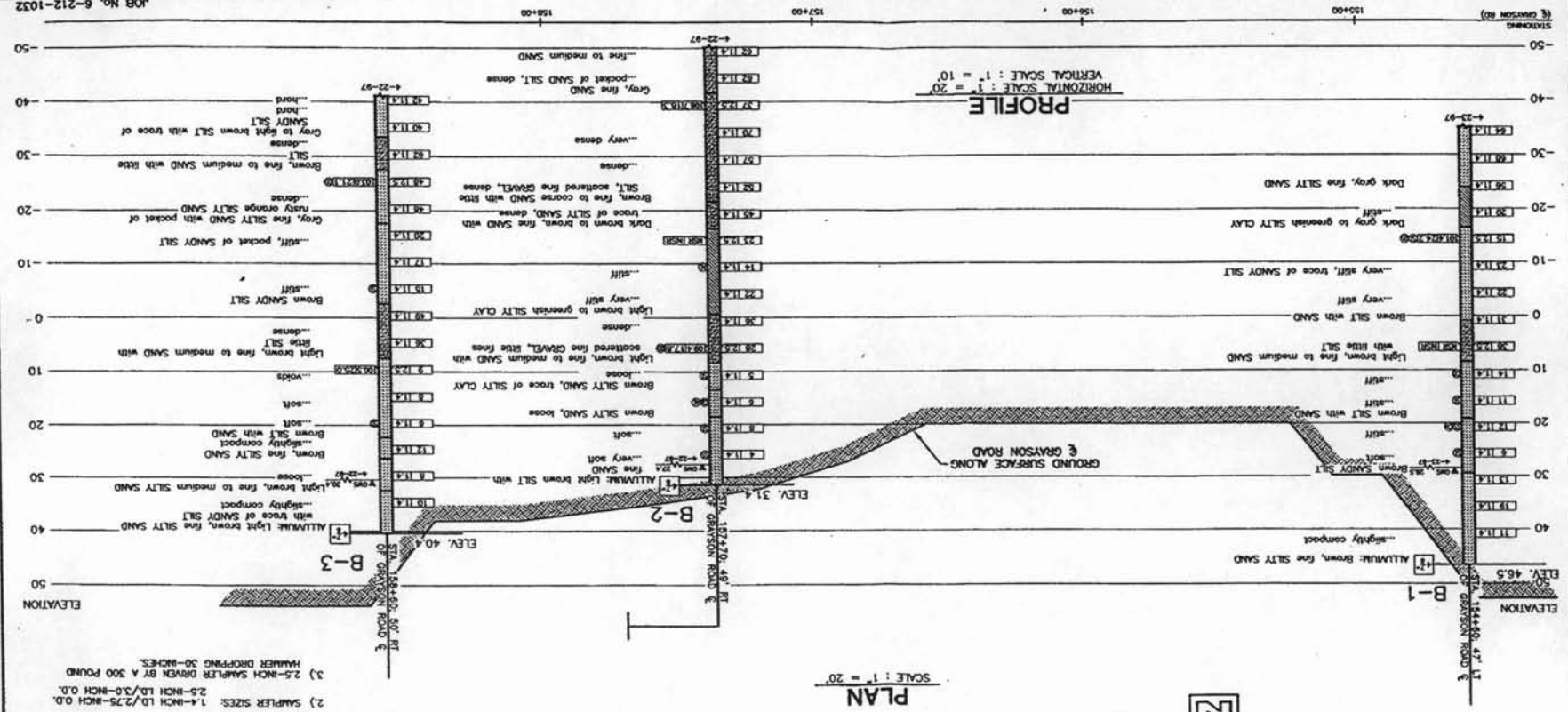
Symbol	Soil Material
□	Gravel
□	Sand
□	Silt
□	Clay
□	Very loose
□	Loose
□	Medium
□	Stiff
□	Very stiff
□	Hard
□	Very hard
□	Extremely hard



DRAWN BY: JAMES B. POOREYER  
 CHECK BY: DOUG DWANCKE  
 DATE: APRIL 23, 1987  
 E.A. BARNETT

PREPARED FOR: STANISLAUS COUNTY

LOG OF TEST BORINGS  
 GRAYSON ROAD BRIDGE AT LAIRD SLOUGH  
 EARTHQUAKE RETROFIT  
 JOB NO. 6-212-1032



**AGRA**  
 Earth & Environmental Inc.  
 1790 North Hancock Street, Anaheim, Ca 92807  
 3064 Gold Canal Drive, Rancho Cordova, Ca 95670

REGISTERED PROFESSIONAL ENGINEER  
 No. 2279  
 Exp. 12-31-99

PLANS APPROVAL DATE: \_\_\_\_\_

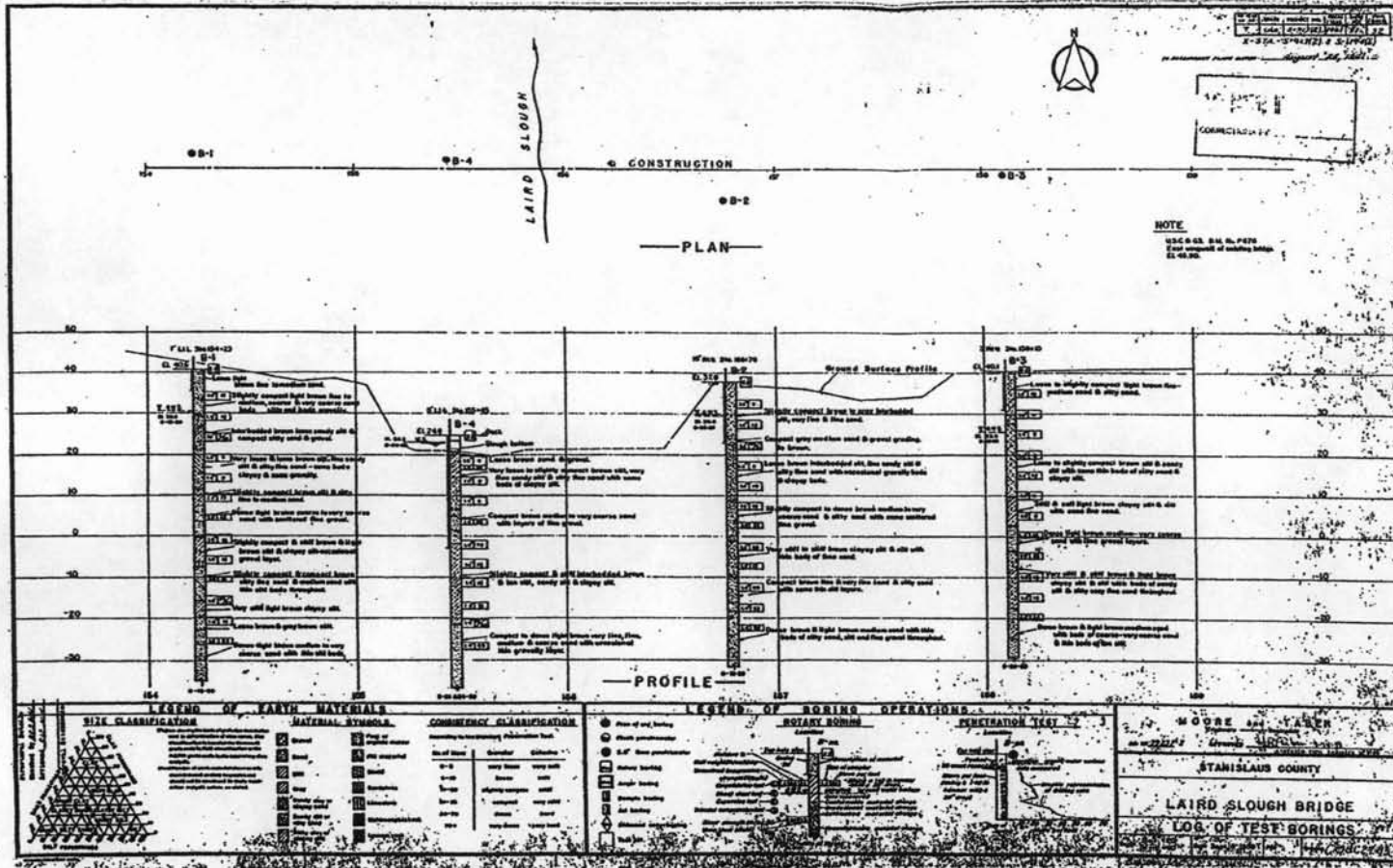
DIST.	COUNTY	ROUTE	POST MILES	SHEET TOTAL
10	Sta		6	7

- NOTES:
- NO BENCHMARK AVAILABLE. ELEVATIONS WERE REFERENCED TO C.B. (STA. 156+65.50) ELEVATION OF 53.20 FEET.
  - SAMPLER SIZES: 1.4-INCH I.D./2.75-INCH O.D. 2.5-INCH I.D./3.0-INCH O.D.
  - 2.5-INCH SAMPLER DRIVEN BY A 500 POUND HAMMER DROPPING 30-INCHES.

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
10	Sta			7	7

  
 REGISTERED PROFESSIONAL ENGINEER  
 PLANS APPROVAL DATE \_\_\_\_\_  
**AGRA**  
 Earth & Environmental, Inc.  
 1290 North Hancock Street Anaheim, Ca 92807  
**Dokken Engineering**  
 3054 Gold Canal Drive  
 Rancho Cordova, Ca 95670

**NOTE:**  
 THE INFORMATION PRESENTED ON THIS SHEET IS TAKEN FROM AN ORIGINAL STANISLAUS COUNTY LOG OF TEST BORINGS. THIS INFORMATION WAS USED TO PREPARE THE GEOTECHNICAL REPORT.



**NOTE**  
 USC & GS, S.M. & PERS  
 East corner of centerline station  
 EL 48.00

MOORE and YATES  
 4000 J Street  
 STANISLAUS COUNTY  
**LAIRD SLOUGH BRIDGE**  
**LOG OF TEST BORINGS**

JOB No. 6-212-1032

**EARTHQUAKE RETROFIT**  
**GRAYSON ROAD BRIDGE AT LAIRD SLOUGH**  
**AS-BUILT LOG OF TEST BORINGS**

DESIGN	BY	CHECKED
DETAILS	BY	CHECKED
QUANTITIES	BY	CHECKED

PREPARED FOR  
**STANISLAUS COUNTY**

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS  
 0 1 2 3

BRIDGE NO.	38C-0027	REVISION DATES (PRELIMINARY STAGE ONLY)	SHEET	7	OF	7
POST MILE		REVISION DATES				

**DECLARATION OF PUBLICATION  
(C.C.P. S2015.5)**

**COUNTY OF STANISLAUS  
STATE OF CALIFORNIA**

I am a citizen of the United States and a resident Of the County aforesaid; I am over the age of Eighteen years, and not a party to or interested In the above entitle matter. I am a printer and Principal clerk of the publisher of **THE MODESTO BEE**, printed in the City of **MODESTO**, County of **STANISLAUS**, State of California, daily, for which said newspaper has been adjudged a newspaper of general circulation by the Superior Court of the County of **STANISLAUS**, State of California, Under the date of **February 25, 1951, Action No. 46453**; that the notice of which the annexed is a printed copy, has been published in each issue there of on the following dates, to wit:

Mar 29, 2010, Apr 05, 2010, Apr 12, 2010

-----  
I certify (or declare) under penalty of perjury That the foregoing is true and correct and that This declaration was executed at

**MODESTO, California on**

April 12th, 2010

(Signature)

*Marie Hickman*

**INVITATION TO CONTRACTORS  
"Grayson Road Bridge at  
Laird Slough Project"**

Owner is Stanislaus County, Modesto CA; Estimated construction cost for this project is \$300,000; Sealed bids are due before 2:00 P.M., April 21, 2010, to the Clerk of the Board of Supervisors, 1010 10th Street, Ste. 6500, Modesto, CA 95354; Project contact is Aja Yamzon at aja.yamzon@stancounty.com or Fax No. (209) 525-4188. Work to be accomplished includes the installation of longer seat extenders at two hinges within the spans where the structure changes from reinforced concrete slab bridge to reinforced T-beam bridge which involves the attachment of structural steel brackets below the existing concrete hinge diaphragms; and the installation of rock slope protection (RSP) under the bridge on the east bank to fill a hole created by unauthorized excavation and other such items not mentioned herein that are required by the plans and specifications. Plans and specifications are available for purchase from Valley Reographics, Modesto CA, (209) 338-0801 and can be viewed at [www.valleyreoproplanroom.com](http://www.valleyreoproplanroom.com) under "Public Jobs".  
Pub Dates March 29, April 5, 12, 2010