



November 19, 2007

Project No.: 150633

Mr. Yasha Saber  
Granite Construction Company  
8950 Cal Center Drive, Suite 201  
Sacramento, California 95826

**Subject: Evaluation of Existing Conditions, Roads 19 and 87, Granite Esparto Project**

Dear Mr. Saber:

Pursuant to your request, TRC has conducted a field survey to evaluate the road conditions for segments of county Roads 19 and 87 that will be used for Granite Construction Company's proposed Esparto Project haul routes in Yolo County, California. TRC inspected these road segments on November 16, 2007. Results are provided in the attached Table 1. The condition of these road segments ranges from good to fair, in accordance with the explanations provided in the table.

If you have questions, please call.

Sincerely,

**TRC**

Joseph L. Stenger, P.G., REA  
Project Director

Attachment (Table 1)

**TABLE 1**

**ROADWAY SEGMENT PAVEMENT CONDITIONS**

ROAD	ROADWAY SEGMENT	LANE WIDTH (ft.)	SHOULDER WIDTH <sup>(1)</sup> (ft.)	PAVEMENT CONDITION <sup>(2)</sup>
Road 19	Road 87 to I-505	10-12	0-4	Good to Fair <sup>(3)</sup>
Road 87	SR 16 to Road 19	12	0-4	Good to Fair <sup>(4)</sup>

- (1) Observed width of paved shoulder.
- (2) Based on field observations. "Good" pavement is defined as generally smooth surface with limited cracking. "Fair" pavement is defined as slightly rough with some cracking. "Poor" pavement is defined as noticeably rough with considerable cracking and some potholes.
- (3) Road 19 has a recent slurry seal and is in good condition over the western approximately two-thirds of the subject road segment. The eastern approximately one-third of the subject road segment is in fair condition.
- (4) Road 87 is in good condition south of Cache Creek, and fair condition north of Cache Creek.

**COUNTY ROAD 87 PAVEMENT DISTRESSES**

Distress Mechanism	Sample No.	Description	Distress	Quantity	Quantity Units	SEVERITY	PCI
Climate/Durability	2	ALLIGATOR CRACKING	1	144	SqFt	H	17
Climate/Durability	3	ALLIGATOR CRACKING	1	135	SqFt	H	28
Climate/Durability	7	ALLIGATOR CRACKING	1	204	SqFt	H	11
		<b>Total</b>		<b>483</b>			
Climate/Durability	7	ALLIGATOR CRACKING	1	252	SqFt	M	11
Climate/Durability	8	ALLIGATOR CRACKING	1	1,049.99	SqFt	M	17
		<b>Total</b>		<b>1301.99</b>			
Climate/Durability	2	DEPRESSION	6	144	SqFt	H	17
		<b>Total</b>		<b>144</b>			
Climate/Durability	2	DEPRESSION	6	1,312.99	SqFt	L	17
Climate/Durability	8	DEPRESSION	6	839.99	SqFt	L	17
		<b>Total</b>		<b>2,152.98</b>			
Climate/Durability	2	LONGITUDINAL/TRANSVERSE CRACKING	10	103.53	Ft	M	17
		<b>Total</b>		<b>103.53</b>			
Climate/Durability	1	PATCH/UTILITY CUT	11	2,499.98	SqFt	L	67
Climate/Durability	3	PATCH/UTILITY CUT	11	1,013.99	SqFt	L	28
Climate/Durability	4	PATCH/UTILITY CUT	11	577.5	SqFt	L	53
Climate/Durability	5	PATCH/UTILITY CUT	11	1,249.99	SqFt	L	67
Climate/Durability	6	PATCH/UTILITY CUT	11	1,119.99	SqFt	L	49
Climate/Durability	7	PATCH/UTILITY CUT	11	629.99	SqFt	L	11
		<b>Total</b>		<b>7,091.44</b>			
Climate/Durability	3	PATCH/UTILITY CUT	11	259	SqFt	M	28
Climate/Durability	4	PATCH/UTILITY CUT	11	434	SqFt	M	53
Climate/Durability	6	PATCH/UTILITY CUT	11	420	SqFt	M	49
		<b>Total</b>		<b>1,113.00</b>			
Climate/Durability	8	WEATHERING/RAVELING	19	1,249.99	SqFt	L	17
		<b>Total</b>		<b>1,249.99</b>			
Climate/Durability	7	WEATHERING/RAVELING	19	1,413.99	SqFt	M	11
Climate/Durability	8	WEATHERING/RAVELING	19	1,249.98	SqFt	M	17
		<b>Total</b>		<b>2,663.97</b>			

Date: 11/20/2007

# Section Condition Report

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Pavement Database:

Age Category	Average Age At Inspection	Total Area (SqFt)	Number of Sections	Arithmetic Average PCI	PCI Standard Deviation	Weighted Average PCI
26-30	30.00	190,080.00	1	39.00	0.00	39.00
All	30.00	190,080.00	1	39.00	0.00	39.00

# BORING LOG

PROJECT NAME: County Road 87 HOLE #: 1S

ENGINEER: CH

DATE: 10/03/07

BRIDGE: Sacramento Valley

PROJECT CONTACT: Dan Ridolfi

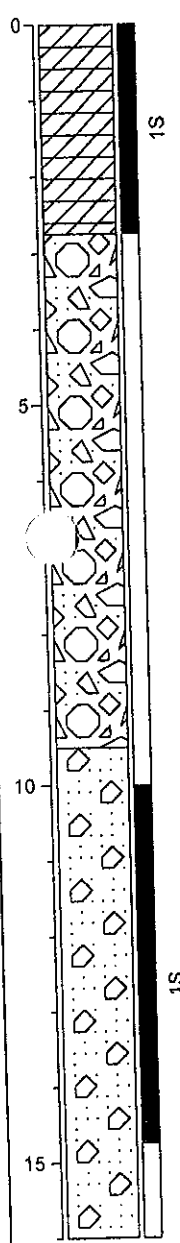
STATE: CA

COUNTY: Yolo

DRILLING METHOD: Coring and Hand Auger HOLE SIZE [OD/ID]: 6in

TOTAL DEPTH: 16in

Depth (in.)	Graphic Log	Sample Interval	Sample ID	Lithologic Description
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(0.0) Asphalt Concrete

(2.8) Aggregate Base

(9.5) Sand with Gravel

# BORING LOG

PROJECT NAME: County Road 87 HOLE #: 2S

ENGINEER: CH

DATE: 10/03/07

BR/ H: Sacramento Valley

PROJECT CONTACT: Dan Ridolfi

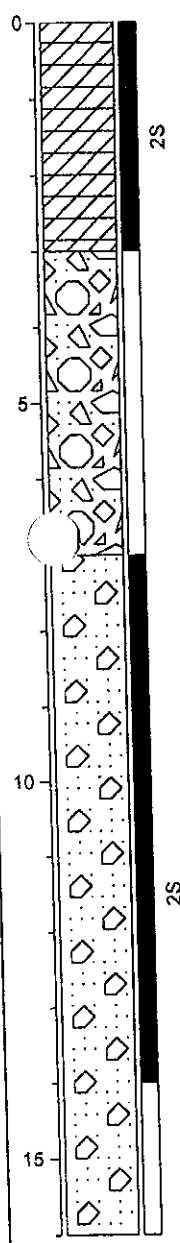
STATE: CA

COUNTY: Yolo

DRILLING METHOD: Coring and Hand Auger HOLE SIZE [OD/ID]: 6in

TOTAL DEPTH: 16in

Depth (ft.)	Graphic Log	Sample Interval	Sample ID	Lithologic Description
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(0.0) Asphalt Concrete

(3.0) Aggregate Base

(7.0) Sand with Gravel



**Engineering Services**  
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Project: County Road 87  
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# BORING LOG

PROJECT NAME: County Road 87 HOLE #: 3S

ENGINEER: CH

DATE: 10/03/07

BF CH: Sacramento Valley

PROJECT CONTACT: Dan Ridolfi

STATE: CA

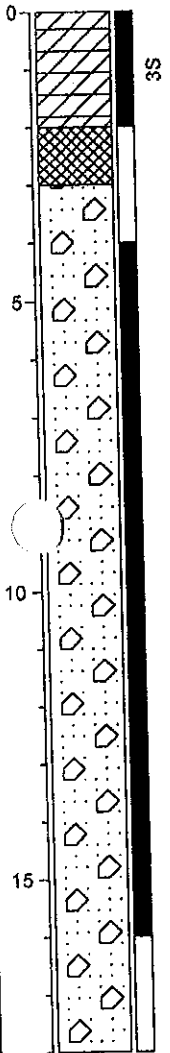
COUNTY: Yolo

DRILLING METHOD: Coring and Hand Auger HOLE SIZE [OD/ID]: 6in

TOTAL DEPTH: 18in

Depth (in.)  
Graphic Log  
Sample Interval  
Sample ID

## Lithologic Description



(0.0) Asphalt Concrete

(2.0) 1/2" Max. Well Graded Asphalt Stabilized Material

(3.0) Sand with Gravel



**Engineering Services**  
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# BORING LOG

PROJECT NAME: County Road 87 HOLE #: 4S

ENGINEER: CH

DATE: 10/03/07

BRIDGE: Sacramento Valley

PROJECT CONTACT: Dan Ridolfi

STATE: CA

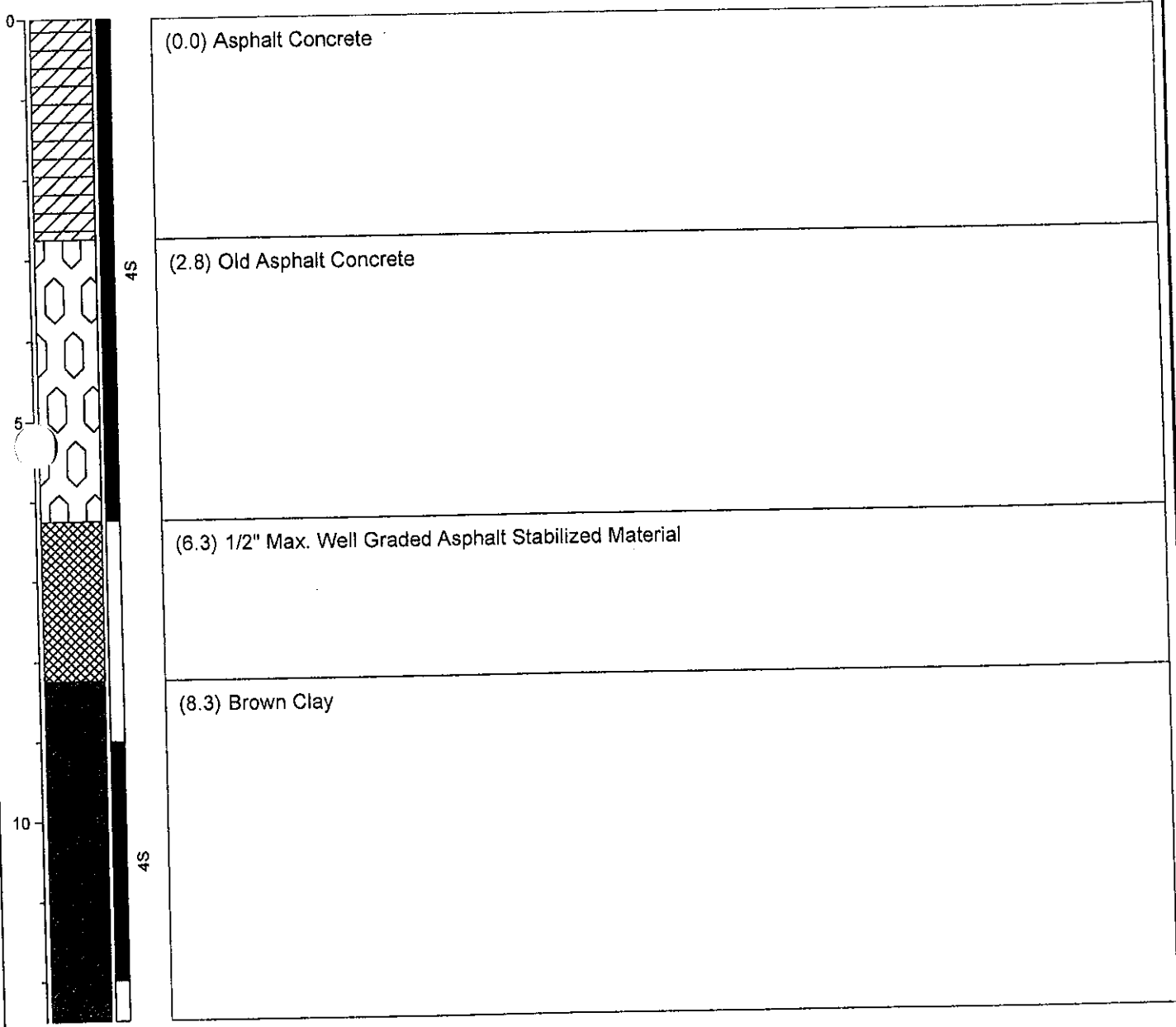
COUNTY: Yolo

DRILLING METHOD: Coring and Hand Auger HOLE SIZE [OD/ID]: 6in

TOTAL DEPTH: 12.5in

Depth (in.)  
Graphic Log  
Sample Interval  
Sample ID

## Lithologic Description



**Engineering Services**  
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Project: County Road 87  
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# BORING LOG

PROJECT NAME: County Road 87 HOLE #: 5S

ENGINEER: CH

DATE: 10/03/07

BR. ( ) H: Sacramento Valley

PROJECT CONTACT: Dan Ridolfi

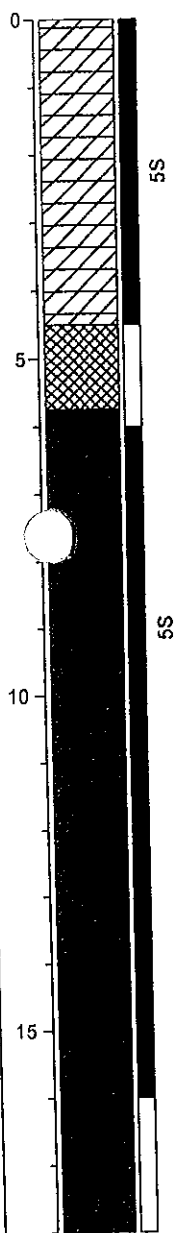
STATE: CA

COUNTY: Yolo

DRILLING METHOD: Coring and Hand Auger HOLE SIZE [OD/ID]: 6in

TOTAL DEPTH: 18in

Depth (in.)	Graphic Log	Sample Interval	Sample ID	Lithologic Description
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(0.0) Asphalt Concrete
(4.5) 1/2" Max. Well Graded Asphalt Stabilized Material
(5.8) Brown Clay



**Engineering Services**  
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# BORING LOG

PROJECT NAME: County Road 87 HOLE #: 6S

ENGINEER: CH

DATE: 10/03/07

BRANCH: Sacramento Valley

PROJECT CONTACT: Dan Ridolfi

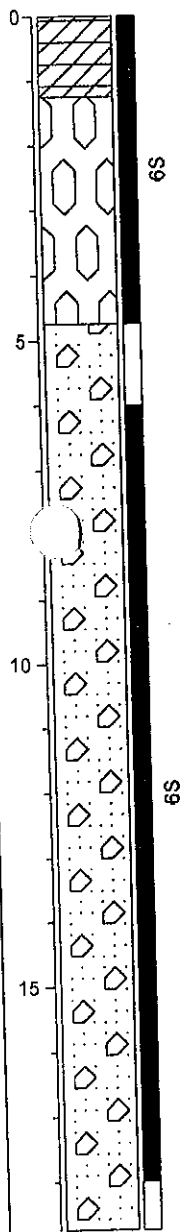
STATE: CA

COUNTY: Yolo

DRILLING METHOD: Coring and Hand Auger HOLE SIZE [OD/ID]: 6in

TOTAL DEPTH: 18.75in

Depth (in.)	Graphic Log	Sample Interval	Sample ID	Lithologic Description
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(0.0) Asphalt Concrete
(1.3) Old Asphalt Concrete
(4.8) Sand with Gravel

# BORING LOG

**PROJECT NAME:** County Road 87 **HOLE #:** 7S

**ENGINEER:** CH

**DATE:** 10/03/07

**BRIDGE:** Sacramento Valley

**PROJECT CONTACT:** Dan Ridolfi

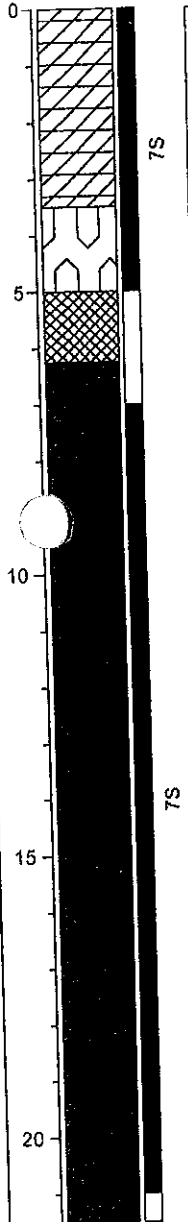
**STATE:** CA

**COUNTY:** Yolo

**DRILLING METHOD:** Coring and Hand Auger **HOLE SIZE [OD/ID]:** 6in

**TOTAL DEPTH:** 21.5in

Depth (in.)	Graphic Log	Sample Interval	Sample ID	Lithologic Description
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0				(0.0) Asphalt Concrete
3.5				(3.5) Old Asphalt Concrete
5.0				(5.0) 1/2" Max. Well Graded Asphalt Stabilized Material
6.3				(6.3) Brown Clay
10				
15				
20				



# BORING LOG

PROJECT NAME: County Road 87 HOLE #: 8S

ENGINEER: CH

DATE: 10/03/07

BRIDGE: Sacramento Valley

PROJECT CONTACT: Dan Ridolfi

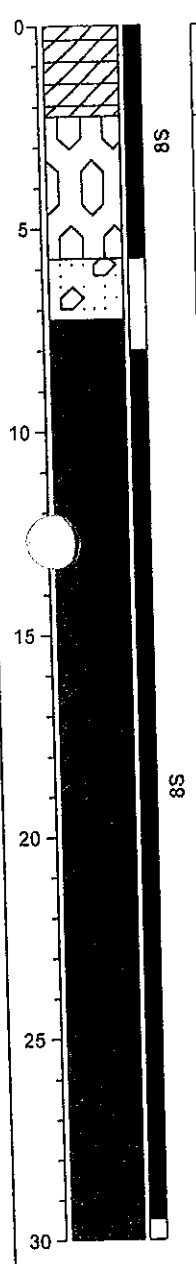
STATE: CA

COUNTY: Yolo

DRILLING METHOD: Coring and Hand Auger HOLE SIZE [OD/ID]: 6in

TOTAL DEPTH: 30in

Depth (in.)	Graphic Log	Sample Interval	Sample ID	Lithologic Description
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(0.0) Asphalt Concrete
(2.3) Old Asphalt Concrete
(5.8) Sand with Gravel
(7.3) Brown Clay



# BORING LOG

PROJECT NAME: County Road 87 HOLE #: 9S

ENGINEER: CH

DATE: 10/03/07

BR. H: Sacramento Valley

PROJECT CONTACT: Dan Ridolfi

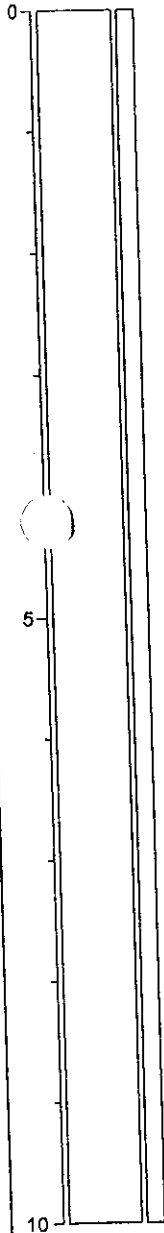
STATE: CA

COUNTY: Yolo

DRILLING METHOD: Coring and Hand Auger HOLE SIZE [OD/ID]: 6in

TOTAL DEPTH: N/A

Depth (in.)	Graphic Log	Sample Interval	Sample ID	Lithologic Description
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(0.0) NO TEST PERFORMED



# BORING LOG

PROJECT NAME: County Road 87 HOLE #: 10S

ENGINEER: CH

DATE: 10/03/07

BRIDGE: Sacramento Valley

PROJECT CONTACT: Dan Ridolfi

STATE: CA

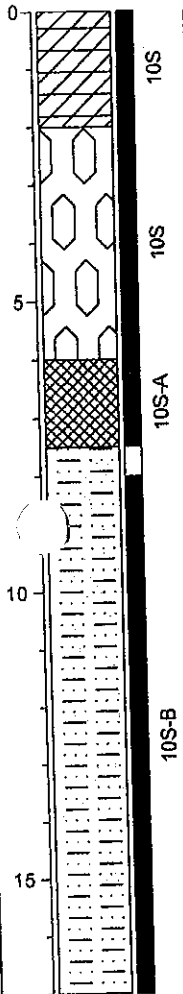
COUNTY: Yolo

DRILLING METHOD: Coring and Hand Auger HOLE SIZE [OD/ID]: 6in

TOTAL DEPTH: 17in

Depth (in.)  
Graphic Log  
Sample Interval  
Sample ID

## Lithologic Description



(0.0) Asphalt Concrete

(2.0) Old Asphalt Concrete

(6.0) 1/2" Max. Well Graded Asphalt Stabilized Material

(7.5) Brown Clayey Sand



**Engineering Services**  
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# BORING LOG

PROJECT NAME: County Road 87 HOLE #: 11N

ENGINEER: CH

DATE: 10/03/07

BRIDGE: Sacramento Valley

PROJECT CONTACT: Dan Ridolfi

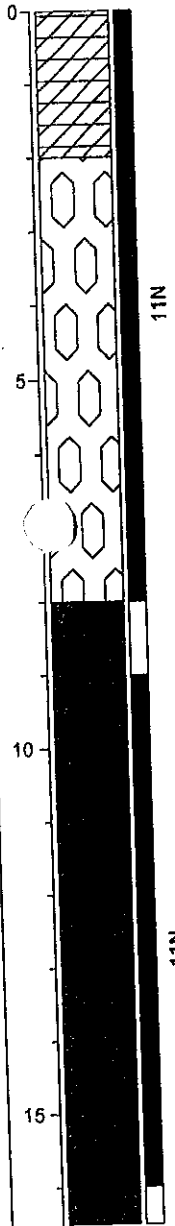
STATE: CA

COUNTY: Yolo

DRILLING METHOD: Coring and Hand Auger HOLE SIZE [OD/ID]: 6in

TOTAL DEPTH: 16.5in

Depth (in.)	Graphic Log	Sample Interval	Sample ID	Lithologic Description
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0.0	Asphalt Concrete
2.0	Old Asphalt Concrete
8.0	Brown Clay

# BORING LOG

PROJECT NAME: County Road 87 HOLE #: 12N

ENGINEER: CH

DATE: 10/03/07

BRIDGE: Sacramento Valley

PROJECT CONTACT: Dan Ridolfi

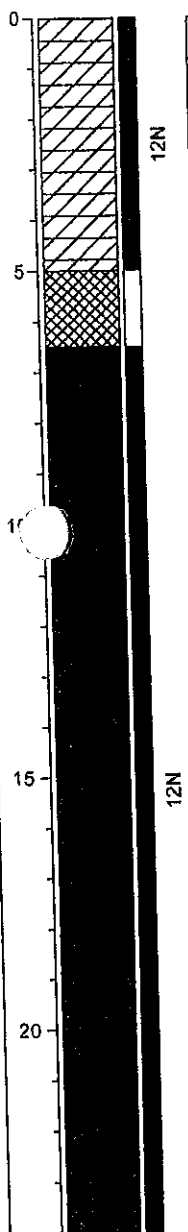
STATE: CA

COUNTY: 24in

DRILLING METHOD: Coring and Hand Auger HOLE SIZE [OD/ID]: 6in

TOTAL DEPTH: 24in

Depth (in.)	Graphic Log	Sample Interval	Sample ID	Lithologic Description
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(0.0) Asphalt Concrete
(5.0) 1/2" Max. Well Graded Asphalt Stabilized Material
(6.5) Brown Clay





# BORING LOG

PROJECT NAME: County Road 87 HOLE #: 13N

ENGINEER: CH

DATE: 10/03/07

BRANCH: Sacramento Valley

PROJECT CONTACT: Dan Ridolfi

STATE: CA

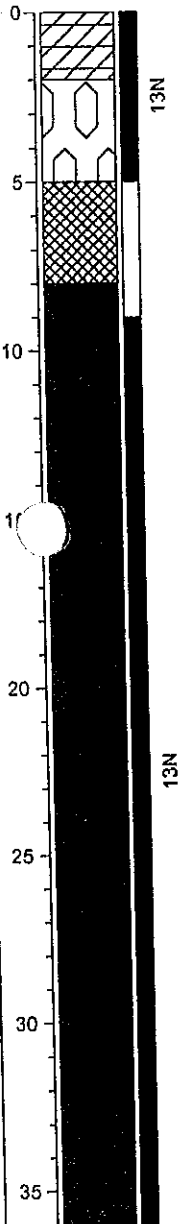
COUNTY: Yolo

DRILLING METHOD: Coring and Hand Auger HOLE SIZE [OD/ID]: 6in

TOTAL DEPTH: 36in

Depth (in.)  
Graphic Log  
Sample Interval  
Sample ID

## Lithologic Description



(0.0) Asphalt Concrete

(2.0) Old Asphalt Concrete

(5.0) 1/2" Max. Well Graded Asphalt Stabilized Material

(8.0) Brown Clay



**Engineering Services**  
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Project: County Road 87  
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# BORING LOG

PROJECT NAME: County Road 87 HOLE #: 14N

ENGINEER: CH

DATE: 10/03/07

BRIDGE: Sacramento Valley

PROJECT CONTACT: Dan Ridolfi

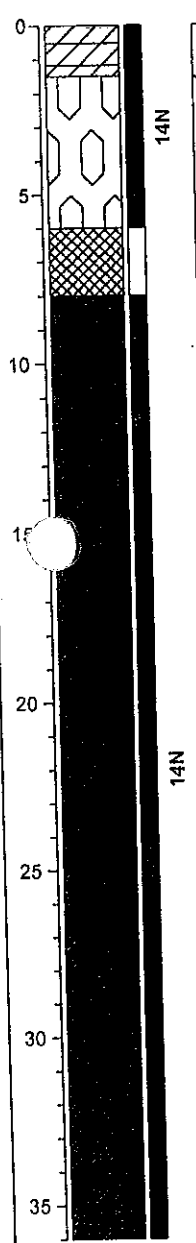
STATE: CA

COUNTY: Yolo

DRILLING METHOD: Coring and Hand Auger HOLE SIZE [OD/ID]: 6in

TOTAL DEPTH: 36in

Depth (in.)	Graphic Log	Sample Interval	Sample ID	Lithologic Description
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0.0	Asphalt Concrete
1.5	Old Asphalt Concrete
6.0	1/2" Max. Well Graded Asphalt Stabilized Material
8.0	Brown Clay



**Engineering Services**  
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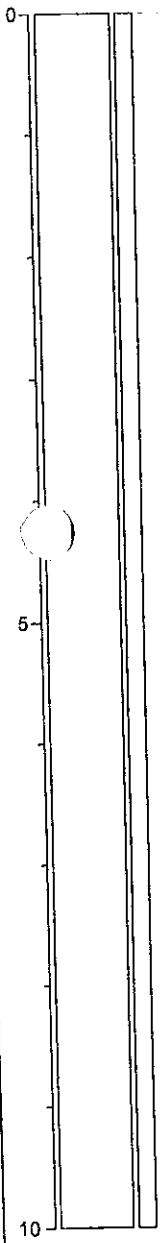
# BORING LOG

PROJECT NAME: County Road 87 HOLE #: 15N ENGINEER: CH DATE: 10/03/07

BR/ H: Sacramento Valley PROJECT CONTACT: Dan Ridolfi STATE: CA COUNTY: Yolo

DRILLING METHOD: Coring and Hand Auger HOLE SIZE [OD/ID]: 6in TOTAL DEPTH: N/A

Depth (in.)	Graphic Log	Sample Interval	Sample ID	Lithologic Description
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(0.0) NO TEST PERFORMED



# BORING LOG

PROJECT NAME: County Road 87 HOLE #: 16N

ENGINEER: CH

DATE: 10/03/07

BRAIN: Sacramento Valley

PROJECT CONTACT: Dan Ridolfi

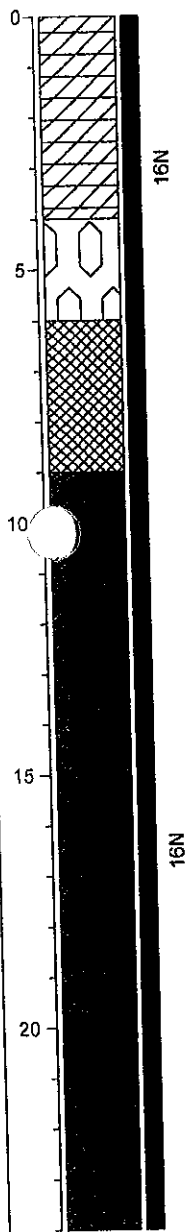
STATE: CA

COUNTY: Yolo

DRILLING METHOD: Coring and Hand Auger HOLE SIZE [OD/ID]: 6in

TOTAL DEPTH: 24in

Depth (in.)	Graphic Log	Sample Interval	Sample ID	Lithologic Description
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0.0	(0.0) Asphalt Concrete
4.0	(4.0) Old Asphalt Concrete
6.0	(6.0) 1/2" Max. Well Graded Asphalt Stabilized Material
9.0	(9.0) Brown Clay

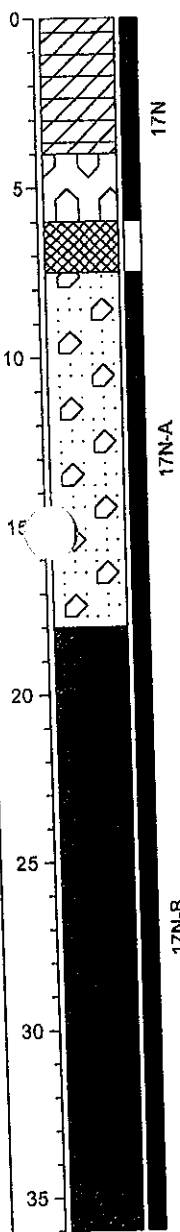
# BORING LOG

**PROJECT NAME:** County Road 87 **HOLE #:** 17N **ENGINEER:** CH **DATE:** 10/03/07

**BR/** H: Sacramento Valley **PROJECT CONTACT:** Dan Ridolfi **STATE:** CA **COUNTY:** Yolo

**DRILLING METHOD:** Coring and Hand Auger **HOLE SIZE [OD/ID]:** 6in **TOTAL DEPTH:** 36in

Depth (in.)	Graphic Log	Sample Interval	Sample ID	Lithologic Description
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0		(0.0) Asphalt Concrete
5		(4.0) Old Asphalt Concrete
6		(6.0) 1/2" Max. Well Graded Asphalt Stabilized Material
7.5		(7.5) Sand with Gravel
18.0		(18.0) Brown Clay
20		
25		
30		
35		



**Engineering Services**  
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Project: County Road 87  
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# BORING LOG

PROJECT NAME: County Road 87 HOLE #: 18N

ENGINEER: CH

DATE: 10/03/07

BRANCH: Sacramento Valley

PROJECT CONTACT: Dan Ridolfi

STATE: CA

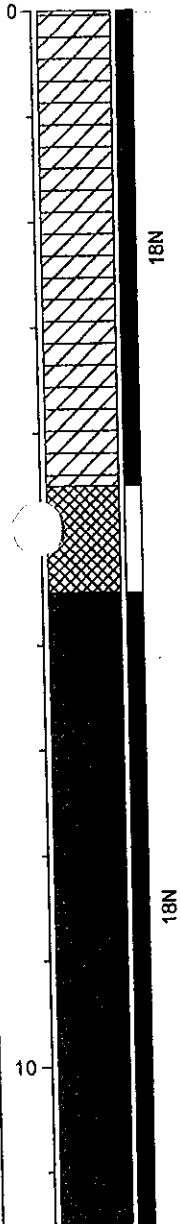
COUNTY: Yolo

DRILLING METHOD: Coring and Hand Auger HOLE SIZE [OD/ID]: 6in

TOTAL DEPTH: 11.5in

Depth (in.)  
Graphic Log  
Sample Interval  
Sample ID

## Lithologic Description



(0.0) Asphalt Concrete

(4.5) 1/2" Max. Well Graded Asphalt Stabilized Material

(5.5) Brown Clay



**Engineering Services**  
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Project: County Road 87  
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# BORING LOG

**PROJECT NAME:** County Road 87 HOLE #: 19N

**ENGINEER:** CH

**DATE:** 10/03/07

**BR** H: Sacramento Valley

**PROJECT CONTACT:** Dan Ridolfi

**STATE:** CA

**COUNTY:** Yolo

**DRILLING METHOD:** Coring and Hand Auger **HOLE SIZE [OD/ID]:** 6in

**TOTAL DEPTH:** 25in

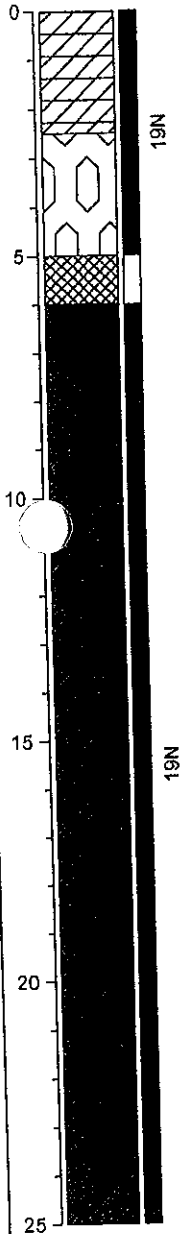
Depth (in.)

Graphic Log

Sample Interval

Sample ID

## Lithologic Description



(0.0) Asphalt Concrete

(2.5) Old Asphalt Concrete

(5.0) 1/2" Max. Well Graded Asphalt Stabilized Material

(6.0) Brown Clay



**Engineering Services**  
Granite Construction Company

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# BORING LOG

**PROJECT NAME:** County Road 87 **HOLE #:** 20N

**ENGINEER:** CH

**DATE:** 10/03/07

**BRANCH:** Sacramento Valley

**PROJECT CONTACT:** Dan Ridolfi

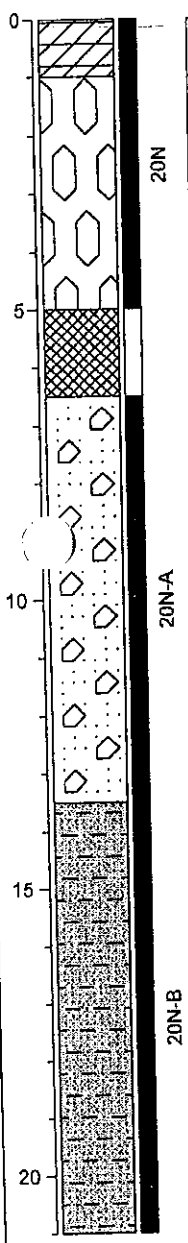
**STATE:** CA

**COUNTY:** Yolo

**DRILLING METHOD:** Coring and Hand Auger **HOLE SIZE [OD/ID]:** 6in

**TOTAL DEPTH:** 21in

Depth (in.)	Graphic Log	Sample Interval	Sample ID	Lithologic Description
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0				(0.0) Asphalt Concrete
1.0				(1.0) Old Asphalt Concrete
5			20N	(5.0) 1/2" Max. Well Graded Asphalt Stabilized Material
6.5				(6.5) Sand with Gravel
10			20N-A	
13.5				(13.5) Brown Silty Sand with Clay
15				
20			20N-B	



**Engineering Services**  
*Granite Construction Company*

Project: County Road 87

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