



# Mariposa Energy, LLC

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April 22, 2011

Mr. Craig Hoffman, CPM  
(09-AFC-3C)  
California Energy Commission  
1516 Ninth Street  
Sacramento, CA 95814

**SUBJECT: Mariposa Energy Project (09-AFC-3C)  
LAND-1 Documentation of BBID Pipeline Design and Construction Schedule  
for Construction of the BBID Pipeline**

Dear Mr. Hoffman:

The attached technical memorandum has been prepared for the Mariposa Energy Project (MEP) to provide documentation that shows construction of the pipeline on the Byron Bethany Irrigation District (BBID) property will be carried out consistent with BBID's standards for pipeline construction (minimum 3 feet of cover) and to provide a construction schedule that does not conflict with the agricultural use of land. The documentation has been submitted in accordance with Condition of Certification LAND-1.

Mariposa Energy acknowledges that MEP has not yet been certified by the California Energy Commission (CEC). Submittal of this compliance information is at Mariposa Energy's risk and in no way implies or predisposes project certification by the CEC.

If you have any questions regarding this submittal, please do not hesitate to contact me at (213) 346-2134 or Keith McGregor at (916) 286-0221.

Sincerely,

Chris Curry  
Mariposa Energy, LLC  
Senior Manager - Development

Attachment: Pipeline Construction Plan for the BBID Water Line Associated with the Mariposa Energy Project (Technical Memorandum) (09-AFC-3C)

cc: Bo Buchynsky, Mariposa Energy, LLC  
James Spicer, Mariposa Energy, LLC  
Gary Normoyle, Mariposa Energy, LLC  
Rick Gilmore, Byron Bethany Irrigation District  
Keith McGregor, CH2M HILL

# Pipeline Construction Plan for the BBID Water Line Associated with the Mariposa Energy Project

PREPARED FOR: Craig Hoffman, CPM, California Energy Commission

PREPARED BY: Jerimy Borchardt, CH2M HILL  
(Resident Engineer for the BBID Water Line)

COPIES: Chris Curry, Mariposa Energy, LLC  
James Spicer, Mariposa Energy, LLC  
Bo Buchynsky, Mariposa Energy, LLC  
Rick Gilmore, Byron Bethany Irrigation District

DATE: April 21, 2011

Mariposa Energy, LLC (Mariposa Energy) has submitted an Application for Certification to the California Energy Commission (CEC) for the Mariposa Energy Project (MEP). If approved by the CEC, MEP would be a nominal 200-megawatt, simple cycle generating facility consisting of four natural gas fired turbines located in northeastern Alameda County.

As outlined in the proposed CEC Conditions of Certification LAND-1, Mariposa Energy is required to:

- provide documentation showing construction of the pipeline on the Byron Bethany Irrigation District (BBID) property will be carried out consistent with BBID's standards for pipeline construction (minimum 3 feet of cover)
- provide a construction schedule that does not conflict with the agricultural use of land.

## BBID Pipeline Installation Standards

BBID has designed a 10-inch diameter ductile iron pipeline to convey raw water from the new pump station at Canal 45 to the MEP project site. The portion of pipeline on the BBID property is designed with a minimum 3 feet of cover, consistent with BBID pipeline design and installation standards. The Conformed Plan and Profile drawings submitted to the Chief Building Official, which show the required 3 feet of cover, are included in Attachment 1.

## BBID Pipeline Construction Schedule

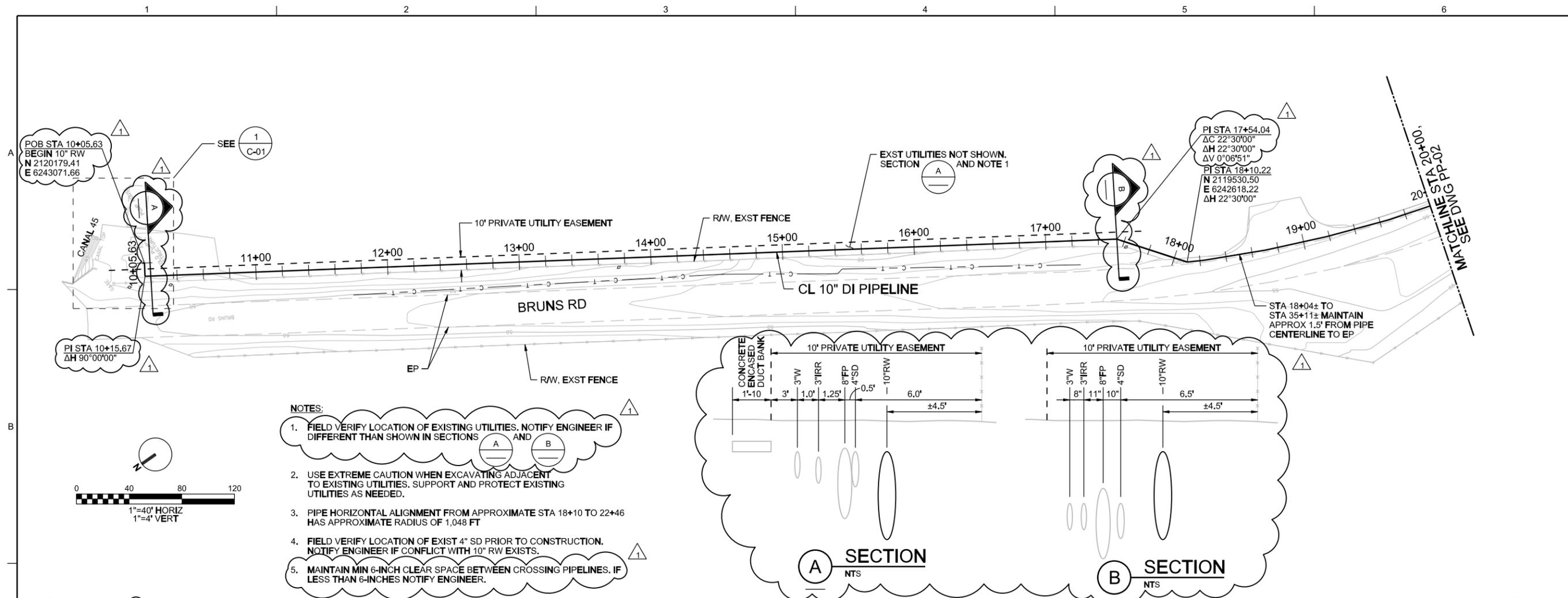
The construction of the BBID raw water pipeline is expected to occur for approximately 2 months beginning June 2011. With the exception of approximately 750 feet of pipeline, the raw water pipeline alignment will be located adjacent to the eastern edge of the paved surface of Bruns Road. The fence line is assumed as the respective county right-of-way line. Therefore, the contractor will not be permitted to extend construction activities beyond the fence line or impact the adjacent agricultural land to the east of the fence line.

The remaining 750 foot reach of the 10-inch raw water pipeline between the pump station at Canal 45 and the BBID Headquarters will be located within a Private Utility Easement located on BBID's property. As shown in Attachment 2, the pipeline alignment and easement line are approximately 27 feet and 15 feet from the edge of the alfalfa field respectively. This buffer will provide adequate space during construction for the contractor to place excavation spoils during the pipeline installation without impacting the crop or harvesting operations. Therefore, the 10-inch raw water pipeline alignment will not impact the use of the active alfalfa field adjacent to the pipeline.

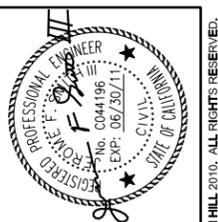
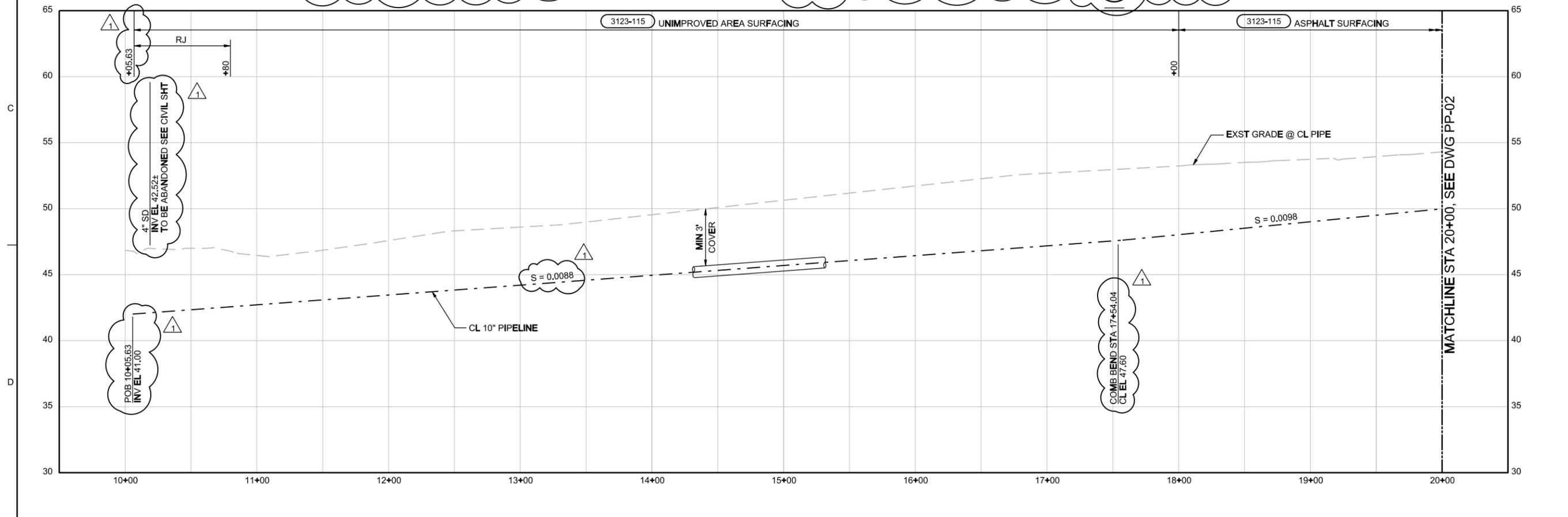
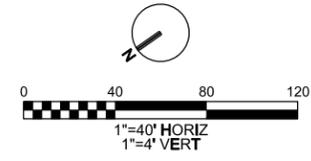
Attachment 1

# Conformed Plan and Profile Drawings

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- NOTES:**
- FIELD VERIFY LOCATION OF EXISTING UTILITIES. NOTIFY ENGINEER IF DIFFERENT THAN SHOWN IN SECTIONS A AND B.
  - USE EXTREME CAUTION WHEN EXCAVATING ADJACENT TO EXISTING UTILITIES. SUPPORT AND PROTECT EXISTING UTILITIES AS NEEDED.
  - PIPE HORIZONTAL ALIGNMENT FROM APPROXIMATE STA 18+10 TO 22+46 HAS APPROXIMATE RADIUS OF 1,048 FT
  - FIELD VERIFY LOCATION OF EXIST 4" SD PRIOR TO CONSTRUCTION. NOTIFY ENGINEER IF CONFLICT WITH 10" RW EXISTS.
  - MAINTAIN MIN 6-INCH CLEAR SPACE BETWEEN CROSSING PIPELINES. IF LESS THAN 6-INCHES NOTIFY ENGINEER.



NO.	DATE	BY	CHK	APVD
1	4/12/11	J. SMITH	D. HENDERSON	J. SMITH
CONFORMED DRAWING				
REVISION				
DSEGN				
DR				
J. BORCHARDT				
D. HENDERSON				
J. SMITH				
APVD				
BY				
JB				
JS				

2485 NATOMAS PARK DR. #600  
SACRAMENTO, CALIFORNIA 95833-2937  
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RAW WATER PUMP STATION & PIPELINE  
MARIPOSA ENERGY PROJECT  
BYRON-BETHANY IRRIGATION DISTRICT  
BYRON, CALIFORNIA

**CH2MHILL**

PLAN & PROFILE  
PLAN AND PROFILE  
STA 10+05± TO STA 20+00

VERIFY SCALE  
BAR IS ONE INCH ON ORIGINAL DRAWING.

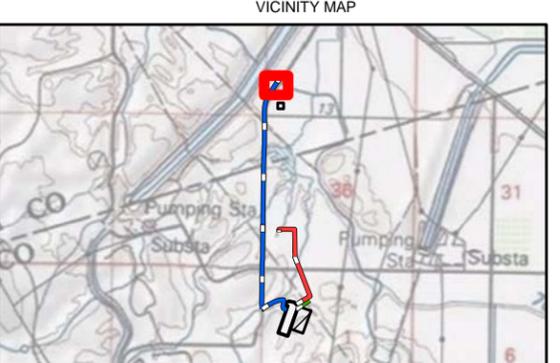
DATE APRIL 2011  
PROJ 154679.39  
DWG PP-01  
SHEET 10 OF 32



Attachment 2

# Proposed Water Line Alignment Between Canal 45 and BBID Headquarters

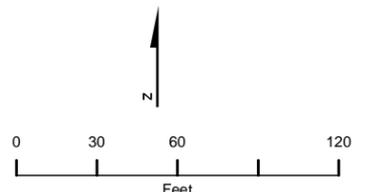
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**Legend**

- Water Line
- DISTURBANCE AREA

This map was compiled from various scale source data and maps and is intended for use as only an approximate representation of actual locations.



**ATTACHMENT 2  
PROPOSED WATER LINE ALIGNMENT  
BETWEEN CANAL 45 AND BBID  
HEADQUARTERS**  
MARIPOSA ENERGY PROJECT  
ALAMEDA COUNTY, CALIFORNIA