



PIPELINE NOTES

HDD NOTES

ABBREVIATIONS

LEGEND

DWG: N:\Nipoma\_CSD (19996)\19996-70 Waterline Intertie Project Design Plans\CAD\Plants\B-1\_L\_RIVER CROSSING\30P\Plant\G-002.dwg Layout Name: G-002 - Plotted by: Froplicher, Jim Date: 4/21/2009 - 1:17 PM  
RRES: NCSO-B01-BP1 - Surface-Station2 IMAGES: Nipoma logo.jpg

APR	08/30/2010
DESCRIPTION	C99166
PROJECT NUMBER	CESAR ROMERO
DATE	
PROJECT ENGINEER	

**AECOM**

AECOM USA, Inc.  
1184 Pacific Street, Suite 204  
San Francisco, CA 94109  
T 415.764.2500 F 415.764.2500  
www.aecom.com

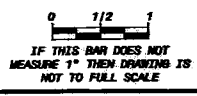
**NIPOMO COMMUNITY SERVICES DISTRICT  
WATERLINE INTERTIE PROJECT - BP1**

**INDEX AND GENERAL NOTES**

DESIGNED: CR
DETAILED: JFF
CHECKED:
APPROVED:
DATE: MARCH 2009
AECOM PROJECT NO. 80061295.0001
NCSO PROJECT NO.
CADD STDS. BOYLE
<b>G-002</b> SHEET 2 OF 11

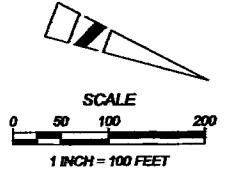
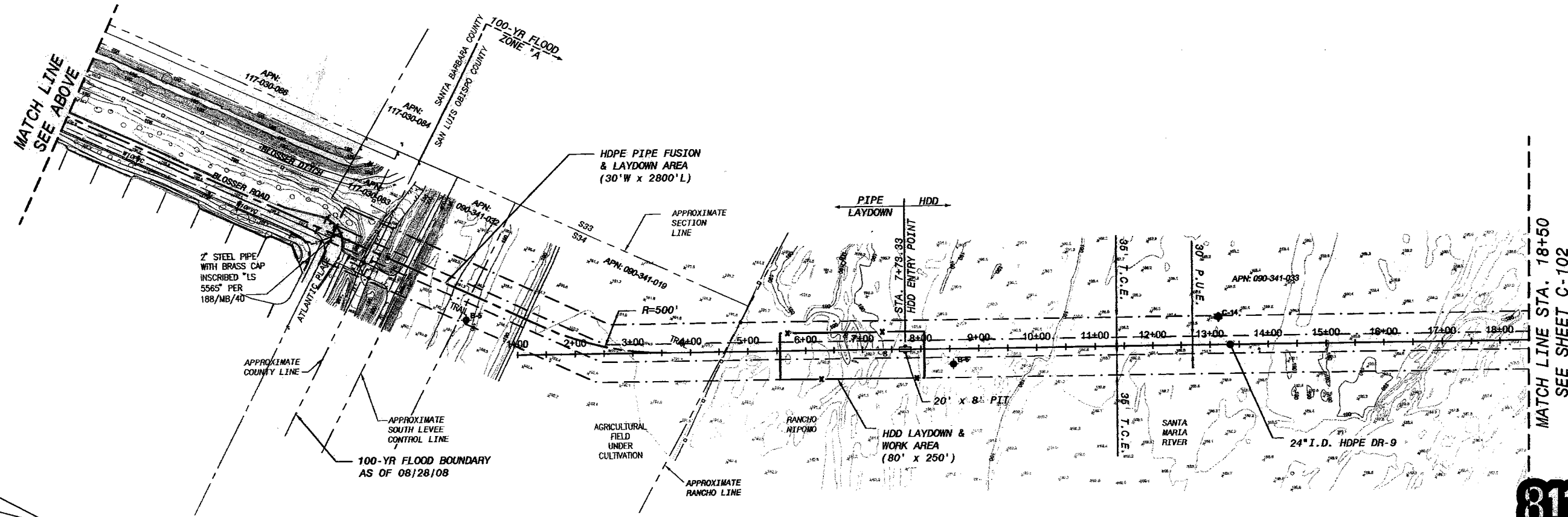
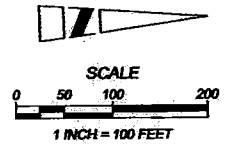
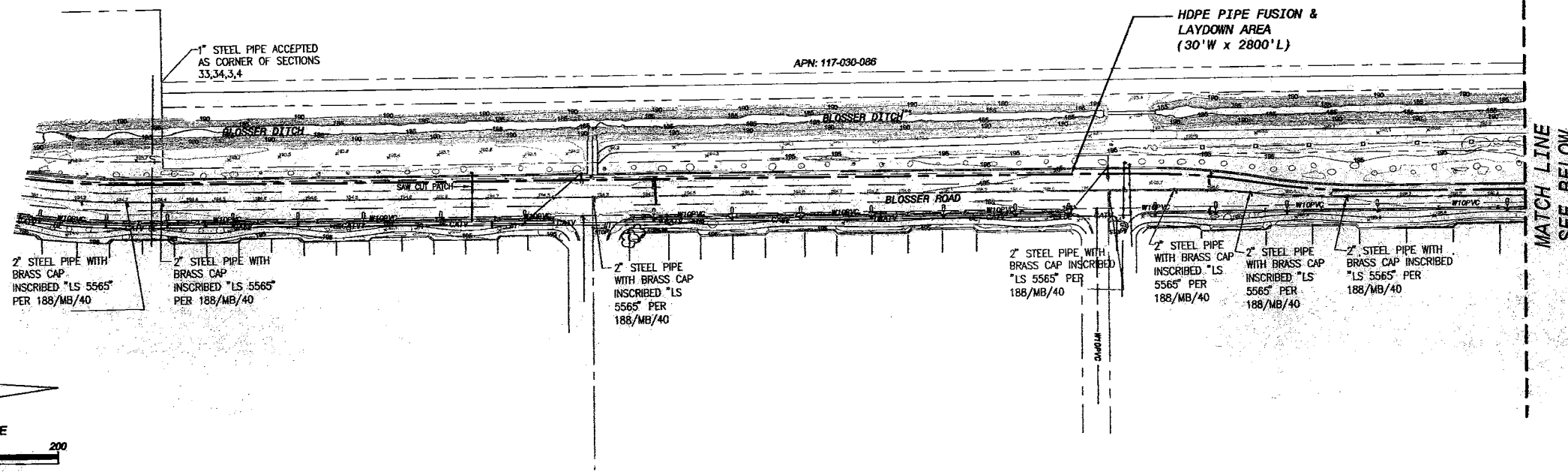
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**FOR PRELIMINARY USE ONLY**  
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 DATE: MARCH 31, 2009



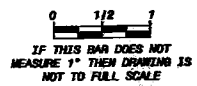


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**30% DESIGN**

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 DATE: MARCH 31, 2009



REV	DATE	DESCRIPTION	BY	DATE
1				

**AECOM**

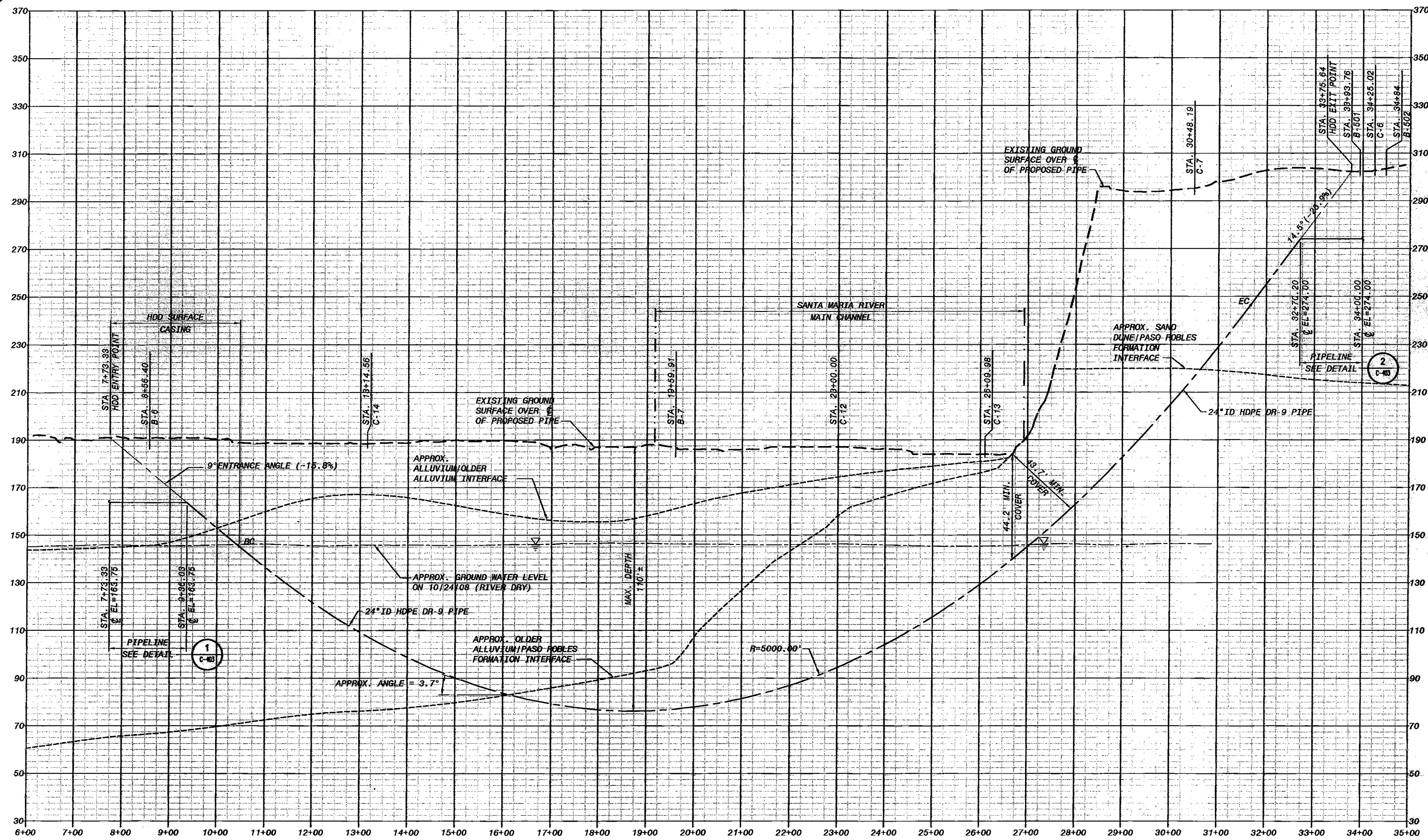
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 San Jose, CA 95128  
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**NIPOMO COMMUNITY SERVICES DISTRICT  
 WATERLINE INTERLINE PROJECT - BPI**

**SITE PLAN - SOUTH  
 STA. 1+00 to STA. 18+50**

DESIGNED: CR
DETAILED: JPP
CHECKED:
APPROVED:
DATE: MARCH 2009
AECOM PROJECT NO. 80061295.0001
NCSD PROJECT NO.
CADD STDS. BOYLE
<b>C-101</b>
<b>SHEET</b>
<b>3 OF 11</b>

D:\NIPOMO\NIPOMO\_CSD (1999)\1999\70\Waterline\Inverts\Plan\A\00\Plan\BP-1\_RIVER\_CROSSING\WORK\Plan\A\00\Plan\BP-1\_HDD\HDD.dwg  
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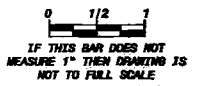


VERTICAL CURVE DATA				
CURVE	RADIUS	DELTA	LENGTH	TANGENT
1	5000.00'	24° 23' 48"	2122.93'	1086.22'

STATION LENGTH = 2602.31'  
 HDD PATH LENGTH = 2632.16'

**30% DESIGN**  
 AECOM WATER  
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 DATE: MARCH 31, 2009

PROFILE SCALE  
 HORIZONTAL 1"=100'  
 VERTICAL 1"=20'



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---

**NIPOMO COMMUNITY SERVICES DISTRICT  
 WATERLINE INTERTIE PROJECT - BP1**

**HDD PROFILE  
 STA. 6+00 to STA. 35+00**

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DESIGNED: CR  
 DETAILED: JPF  
 CHECKED:  
 APPROVED:  
 DATE: MARCH 2009  
 AECOM PROJECT NO.  
 80081295.0001  
 NCSO PROJECT NO.

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CADD STDS.  
 BOYLE  
**C-201**  
 SHEET  
 5 OF 11

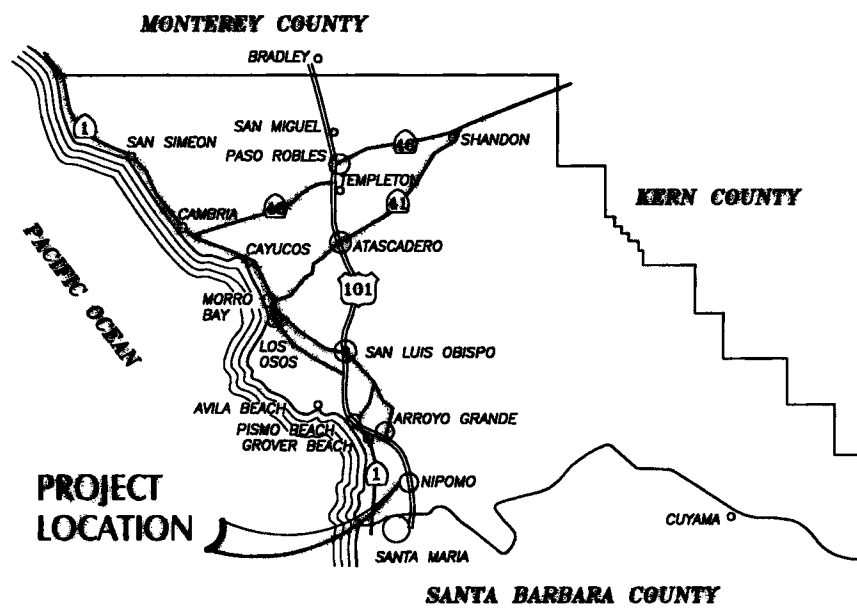
# NIPOMO COMMUNITY SERVICES DISTRICT



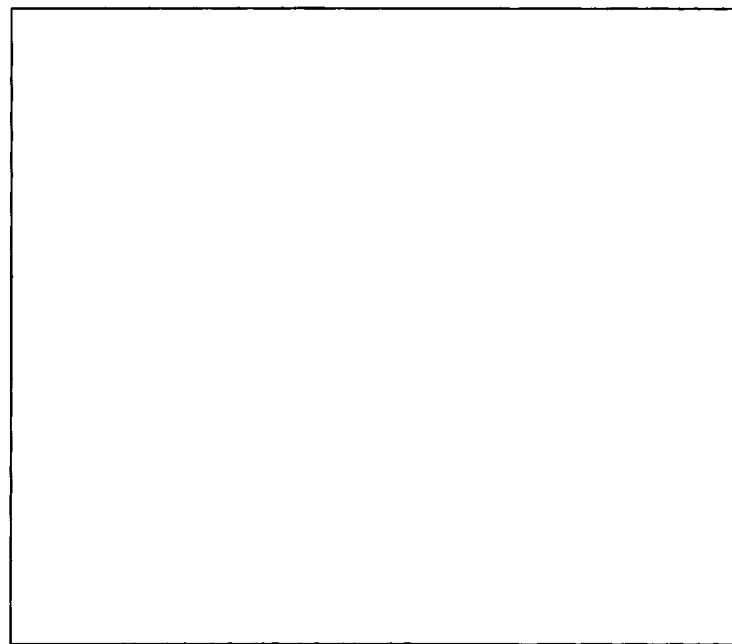
## Construction Plans for WATERLINE INTERTIE PROJECT Bid Package 2

### Nipomo Area Pipeline Improvements March 2009

AECOM



**VICINITY MAP**



**LOCATION MAP**

PROJECT	WATERLINE INTERTIE PROJECT - BP2
CLIENT	NIPOMO COMMUNITY SERVICES DISTRICT
APPROVED BY:	
DATE:	
PROJECT NUMBER	60061295
DATE	2/2008
PROJECT MANAGER	MICHAEL MURLEY, PE
DATE	2/2008
PROJECT MANAGER	JOSHUA REYNOLDS, PE
DATE	2/2008
SCALE	1" = 64'



Copy of documents is available at [www.nipomocsd.org](http://www.nipomocsd.org) \*\*PRELIMINARY PLANS FOR ALIGNMENT REVIEW - NOT FOR CONSTRUCTION

DWG: Nipomo\_CSD (1998) 1998-20 Waterline Intertie Project Design (Design Phase) (CAD) (Project) (BP-2\_NIPOMO\_PIPELINE) (308 Project) (C-001.dwg) Layout Name: C-001 - Plotted by: Froehner, Jim Date: 4/27/2009 - 2:45 PM

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DATE: MARCH 31, 2009

0 1/2 1  
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MEASURE 1" THEN DRAWING IS  
NOT TO FULL SCALE

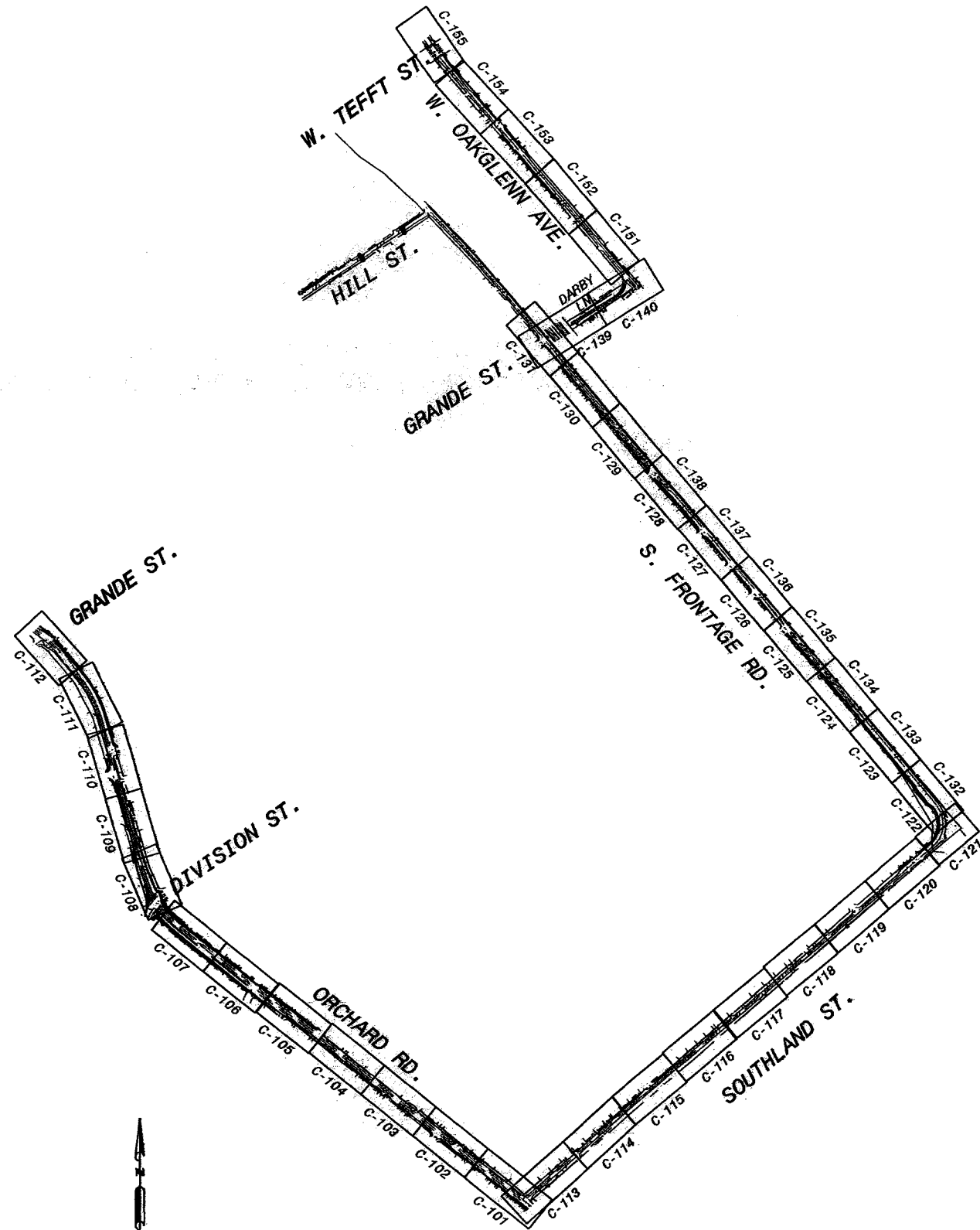
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00061205.0001  
NCSO PROJECT NO.

NIPOMO COMMUNITY SERVICES DISTRICT  
WATERLINE INTERTE PROJECT - BP2  
GENERAL NOTES

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REV	DATE	DESCRIPTION	APP'D	DATE
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**SHEET INDEX**  
SCALE: 1" = 500'

1

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1	G-001	TITLE SHEET
2	G-002	GENERAL NOTES
3	G-003	SHEET INDEX
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4	C-102	ORCHARD RD. PLAN & PROFILE-STA. 1004+00 to 1009+00
5	C-103	ORCHARD RD. PLAN & PROFILE-STA. 1009+00 to 1013+50
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12	C-110	ORCHARD RD. PLAN & PROFILE-STA. 1040+50 to 1045+00
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25	C-123	S. FRONTAGE RD. WATER PLAN & PROFILE-STA. 3004+50 to 3009+00
26	C-124	S. FRONTAGE RD. WATER PLAN & PROFILE-STA. 3009+00 to 3013+50
27	C-125	S. FRONTAGE RD. WATER PLAN & PROFILE-STA. 3013+50 to 3018+00
28	C-126	S. FRONTAGE RD. WATER PLAN & PROFILE-STA. 3018+00 to 3022+50
29	C-127	S. FRONTAGE RD. WATER PLAN & PROFILE-STA. 3022+50 to 3027+00
30	C-128	S. FRONTAGE RD. WATER PLAN & PROFILE-STA. 3027+00 to 3031+50
31	C-129	S. FRONTAGE RD. WATER PLAN & PROFILE-STA. 3031+50 to 3036+00
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34	C-132	S. FRONTAGE RD. SEWER PLAN & PROFILE-STA. 5001+00 to 5004+50
35	C-133	S. FRONTAGE RD. SEWER PLAN & PROFILE-STA. 5004+50 to 5009+00
36	C-134	S. FRONTAGE RD. SEWER PLAN & PROFILE-STA. 5009+00 to 5013+50
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40	C-138	S. FRONTAGE RD. SEWER PLAN & PROFILE-STA. 5027+00 to 5031+00
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50	C-403	S. FRONTAGE RD. PRV STATION PLAN & SECTIONS
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64	C-511	GENERAL SEWER SYSTEM DETAILS - 2

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DATE: MARCH 31, 2009

0 1/2 1  
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO FULL SCALE

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San Jose, CA 95128  
Tel: 408.552.3840 Fax: 408.552.3890  
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NIPOMO COMMUNITY SERVICES DISTRICT  
WATERLINE INTERIM PROJECT - BP2

DESIGNED: JWR  
DRAFTER: JPB  
CHECKED:  
APPROVED:  
DATE: MARCH 2009  
AECOM PROJECT NO.  
00061205.0001  
NCSO PROJECT NO.

CADD STDS.  
BOYLE  
**G-003**  
SHEET  
3 OF 64

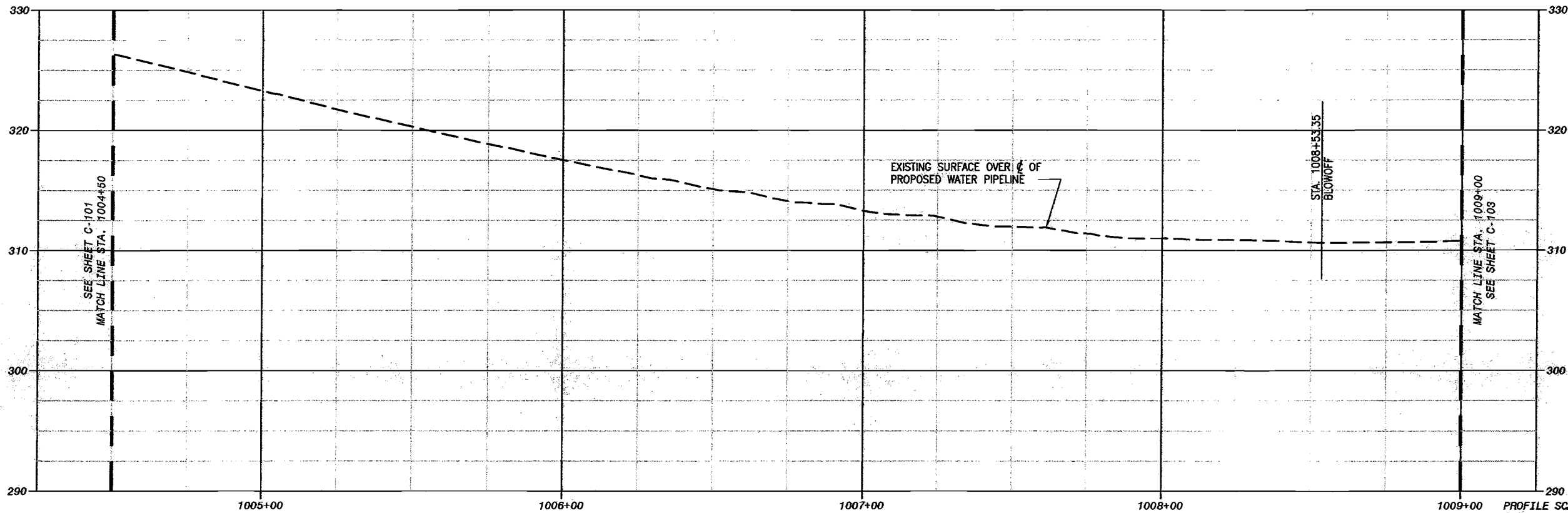
SHEET INDEX

APP'D: JOSHUA H. REYNOLDS  
DATE: 06/30/2009  
DESCRIPTION: C65-400  
PROJECT NUMBER: C65-400

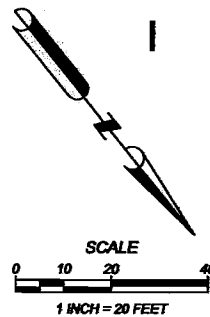
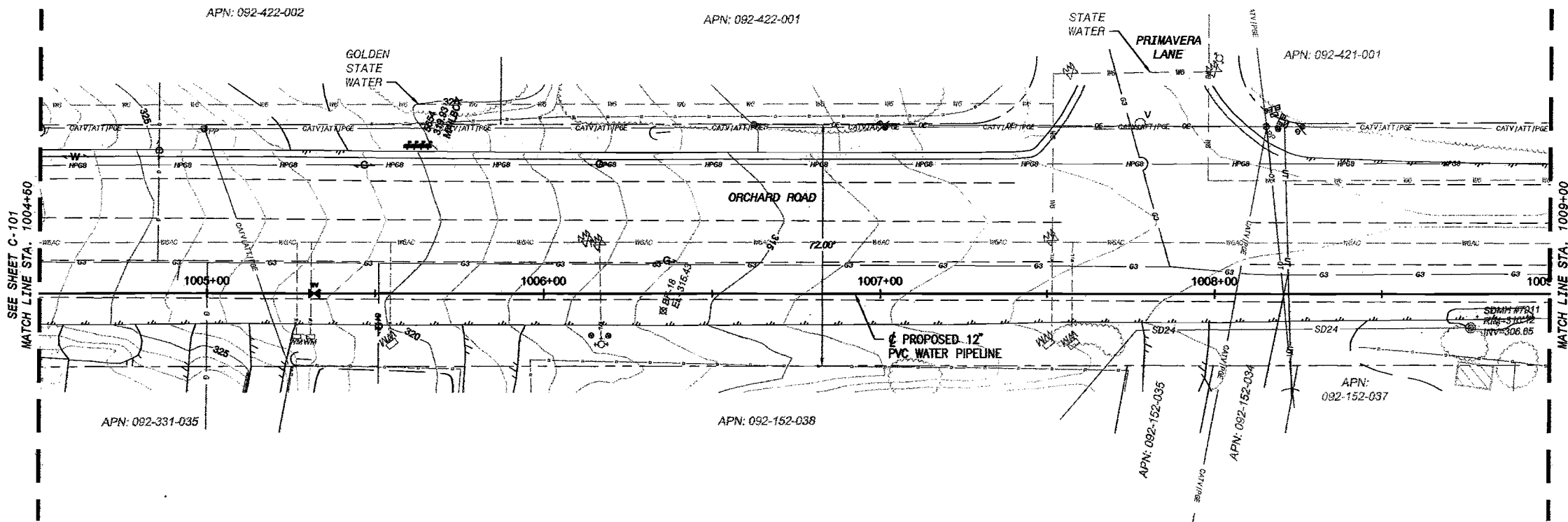




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PROFILE SCALE  
 HORIZONTAL 1"=20'  
 VERTICAL 1"=5'



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 DATE: MARCH 31, 2009

IF THIS BAR DOES NOT  
 MEASURE 1" THEN DRAWING IS  
 NOT TO FULL SCALE

APPD	09/30/2009
DESCRIPTION	REP ROBERT
DATE	09/30/09
PROJECT ENGINEER	JOSHUA H REYNOLDS
PROJECT NO.	0915-000

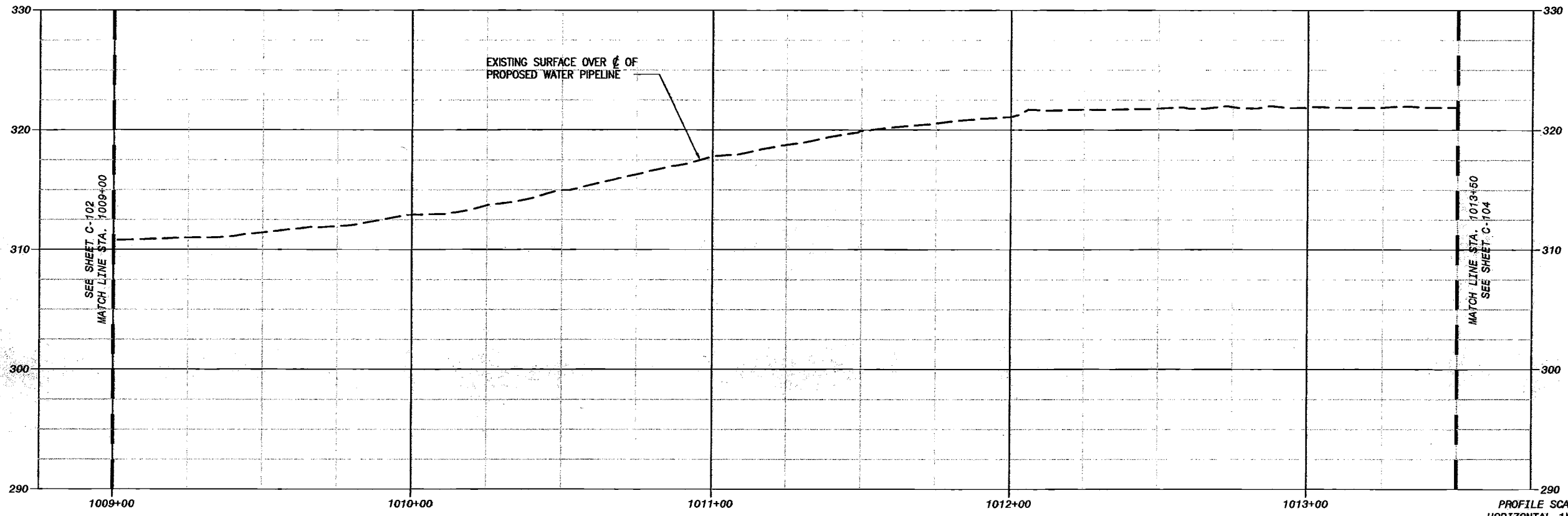
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**NIPOMO COMMUNITY SERVICES DISTRICT  
 WATERLINE INTERLINE PROJECT - BP2  
 ORCHARD STREET  
 PLAN AND PROFILE  
 STA 1004+50 to 1009+00**

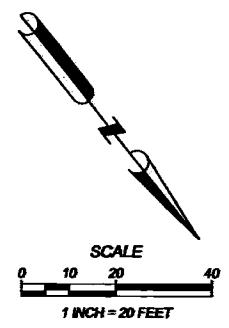
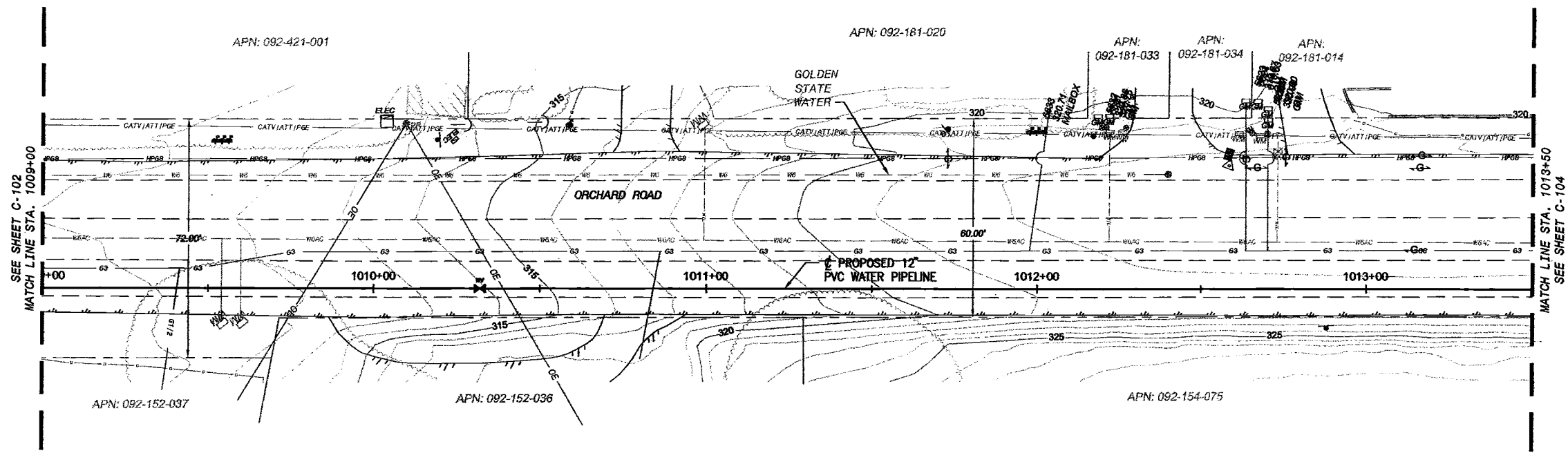
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DETAILED: JPF
CHECKED:
APPROVED:
DATE: MARCH 2009
AECOM PROJECT NO. 90061285.0001
NCS-D PROJECT NO.

CADD STDS.  
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**C-102**  
 SHEET  
 4 OF 64

DWG: W:\Nipomo\_CSD (19998)\19998\70 Waterline Interline Project Design\Plan\CAD\Planner\BP-2\_WSPWD\_PIPELINES\306\_Plan\C-101 to C-112.dwg  
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 Plotted by: Freilicher, Jim  
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 WKS: Nipomo - Uprn Paths - Surface-Sections-1-5 - Ex-Utilities  
 WKS: Nipomo - Uprn Paths - Surface-Sections-1-5 - Ex-Utilities



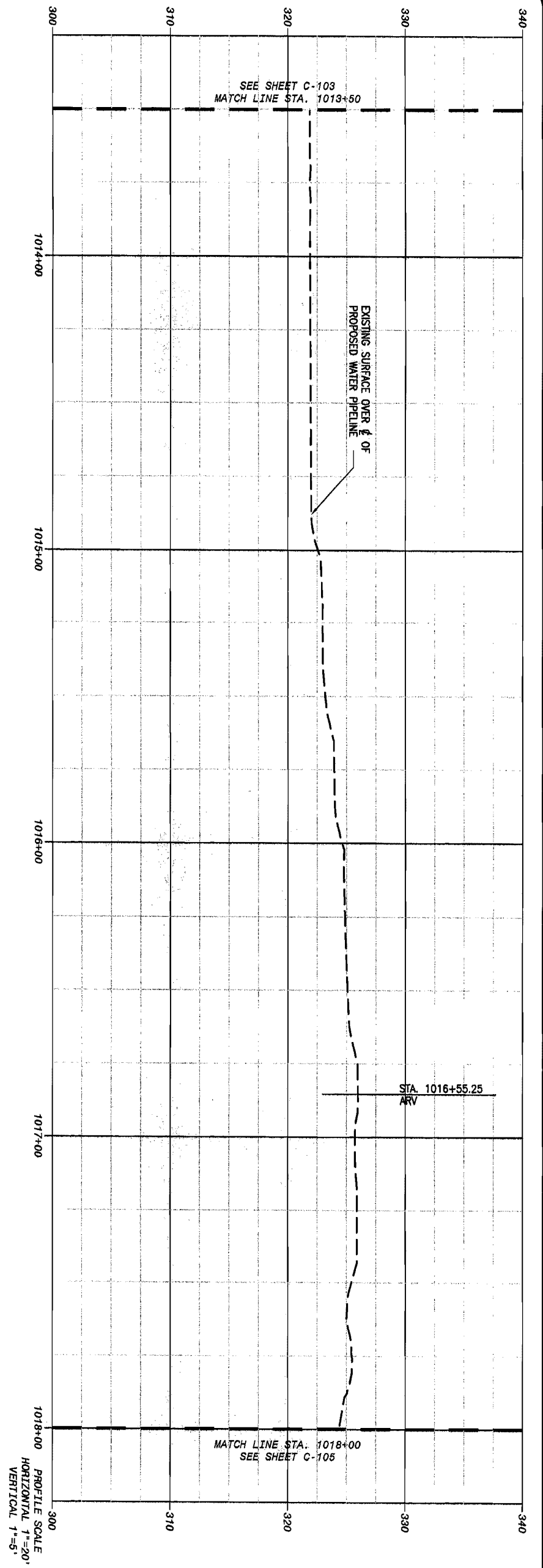
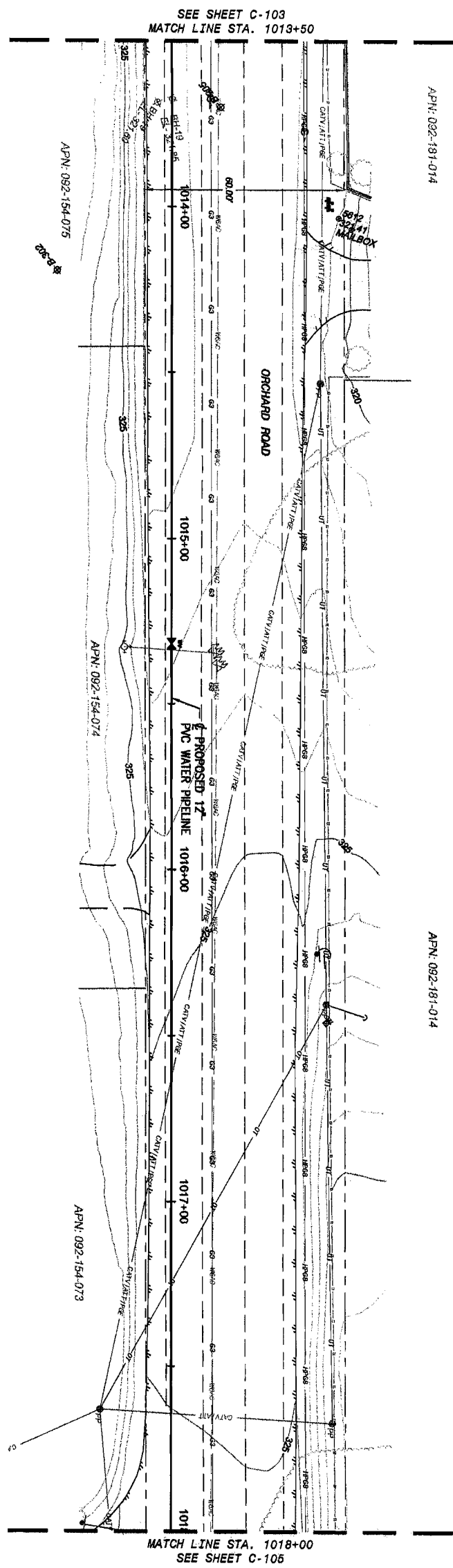
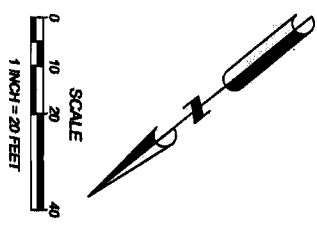
PROFILE SCALE  
 HORIZONTAL 1"=20'  
 VERTICAL 1"=5'



AECOM WATER  
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 DATE: MARCH 31, 2009

0 1/2 1  
 IF THIS BAR DOES NOT  
 MEASURE 1" THEN DRAWING IS  
 NOT TO FULL SCALE

<b>AECOM</b> <small>AECOM USA, INC.          1825 J Street, Suite 204          San Luis Obispo, California 93401          T 805.542.3940 F 805.542.9980          www.aecom.com</small>																
<b>NIPOMO COMMUNITY SERVICES DISTRICT          WATERLINE INTERLINE PROJECT - BP2</b> <b>ORCHARD STREET          PLAN AND PROFILE          STA 1009+00 TO STA. 1013+50</b>																
DESIGNED: JPH DETAILED: JPF CHECKED: APPROVED: DATE: MARCH 2009 AECOM PROJECT NO. 60081296.0001 NCSO PROJECT NO.	CADD STDS. BOYLE <b>C-103</b> SHEET 5 OF 64															
<table border="1"> <tr> <th>REV</th> <th>DATE</th> <th>DESCRIPTION</th> <th>REP NUMBER</th> <th>APPR DATE</th> </tr> <tr> <td>1</td> <td></td> <td></td> <td>C85400</td> <td>09/30/2009</td> </tr> <tr> <td colspan="5">           PROJECT ENGINEER: JOSHUA H REYNOLDS         </td> </tr> </table>		REV	DATE	DESCRIPTION	REP NUMBER	APPR DATE	1			C85400	09/30/2009	PROJECT ENGINEER: JOSHUA H REYNOLDS				
REV	DATE	DESCRIPTION	REP NUMBER	APPR DATE												
1			C85400	09/30/2009												
PROJECT ENGINEER: JOSHUA H REYNOLDS																



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 NOT TO BE USED FOR CONSTRUCTION  
 DATE: MARCH 31, 2009

IF THIS BAR DOES NOT  
 MEASURE 1" THEN DRAWING IS  
 NOT TO FULL SCALE

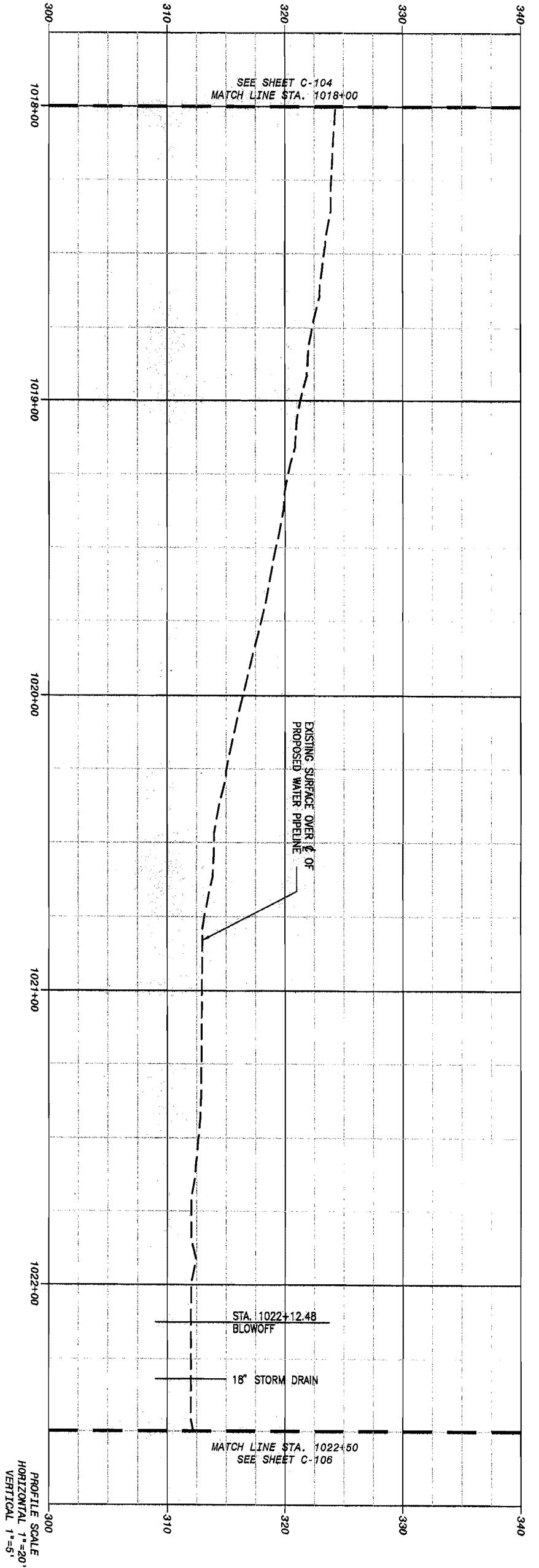
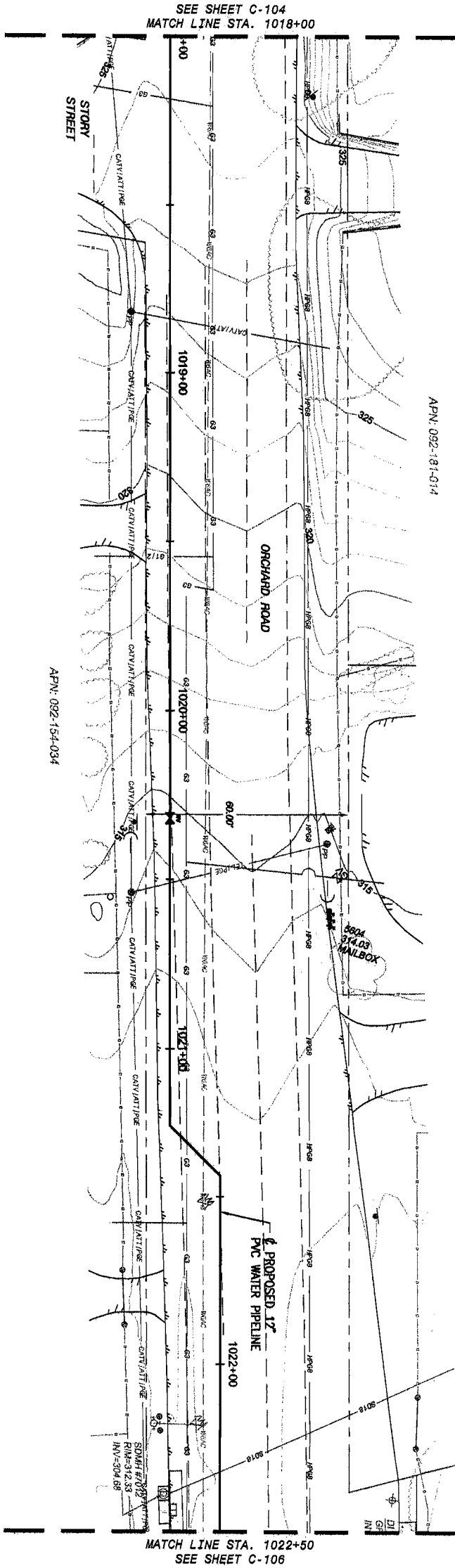
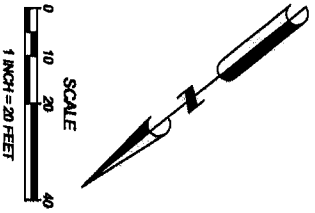
**NIPOMO COMMUNITY SERVICES DISTRICT  
 WATERLINE INTERLIE PROJECT - BP2**  
**ORCHARD STREET  
 PLAN AND PROFILE  
 STA 1013+50 TO STA. 1018+00**



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REV	DATE	DESCRIPTION	APPR
PROJECT ENGINEER		REV NUMBER	EXP DATE
JOSHUA H. REYNOLDS		C85400	09/30/2009

DESIGNED: JMF	DATE: MARCH 2009
DRAWN: JMF	AECOM PROJECT NO. 60007266.0001
CHECKED:	MCSO PROJECT NO.
APPROVED:	
SCALE: 1"=20'	
SHEET: C-104	
OF: 64	



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AECOM WATER  
 DATE: MARCH 31, 2008

IF THIS PLAN IS USED FOR MEASUREMENTS, THE MEASUREMENTS SHOULD BE MADE TO THE FIELD SCALE.

**NIPOMO COMMUNITY SERVICES DISTRICT  
 WATERLINE INTERLIE PROJECT - BP2**

**ORCHARD STREET  
 PLAN AND PROFILE  
 STA 1018+00 to STA. 1022+50**

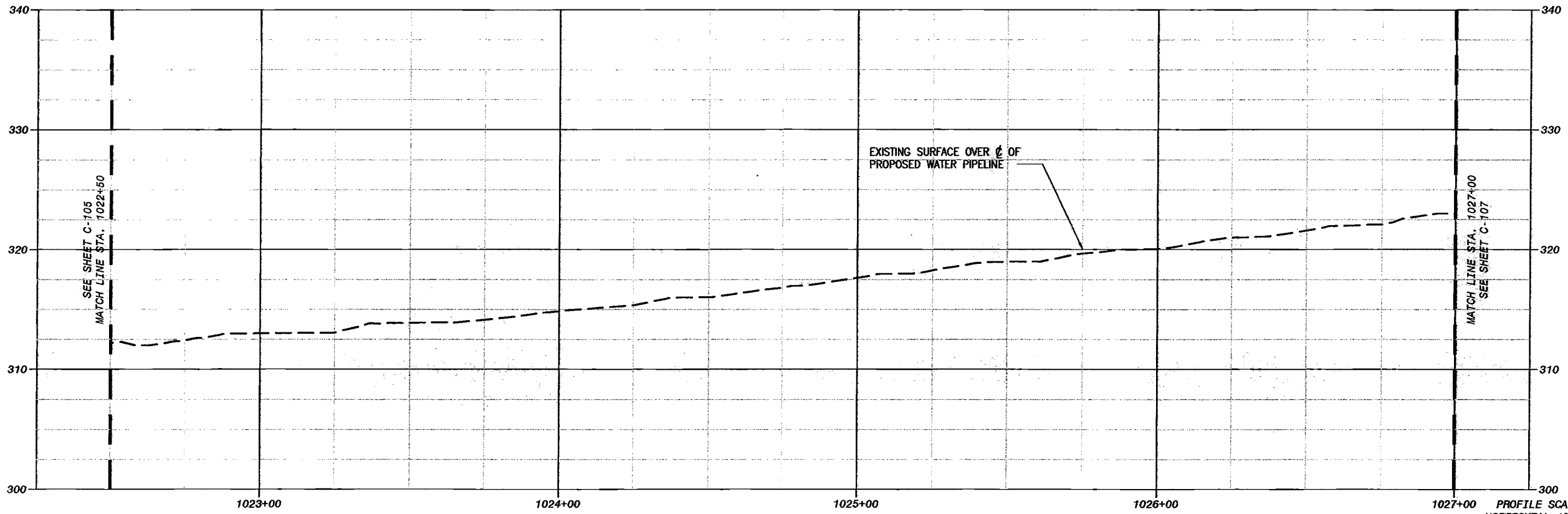
DESIGNED: JAM	CADD STDS: NONE
DETAILS: JAM	DATE: MARCH 2008
CHECKED: JAM	AECOM PROJECT NO. 00001296.0001
APPROVED: JAM	MCSO PROJECT NO.



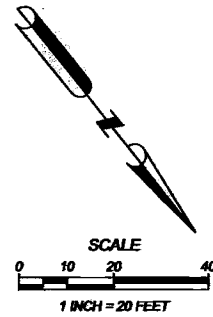
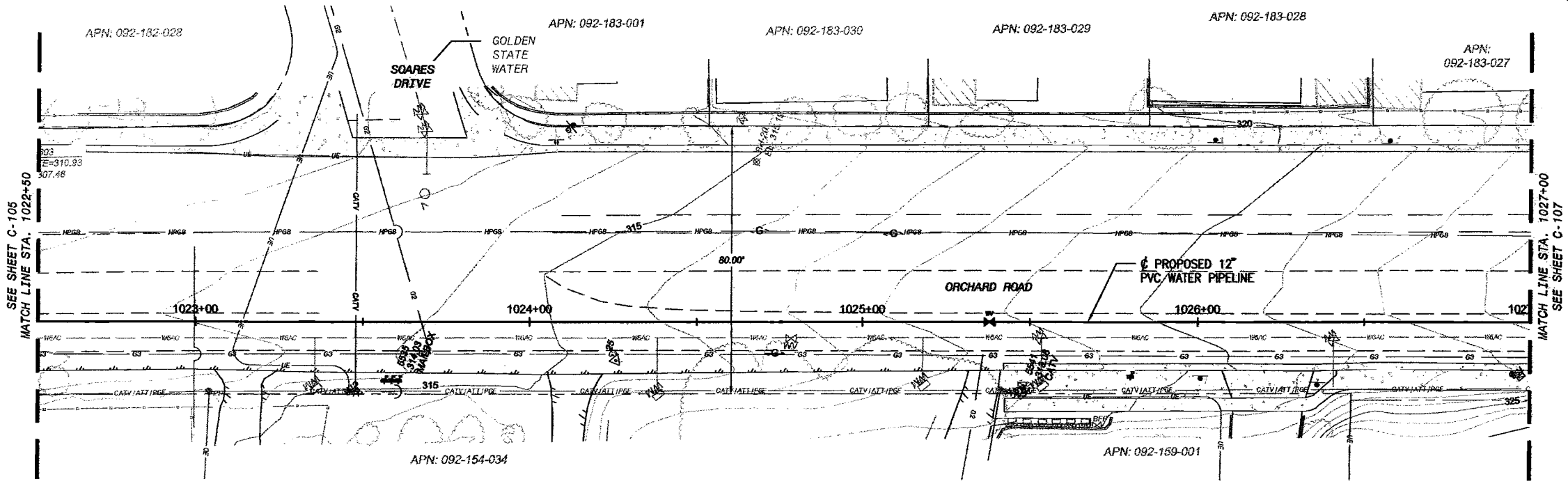
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REV	DATE	DESCRIPTION	REQ NUMBER	APP
1				
PROJECT ENGINEER		REQ NUMBER		EXP DATE
JOSHUA H REYNOLDS		C65400		09/30/2009

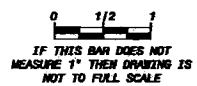
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 XREFS: NCS-01-BP2 - Waterline - figure points - Surface-Station-4-5 - Ex-Utilities IMAGES: Nipomo Logo.jpg - Santa Maria Waterline-1.dwg - Santa Maria Waterline-2.dwg



PROFILE SCALE  
 HORIZONTAL 1"=20'  
 VERTICAL 1"=5'



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 DATE: MARCH 31, 2009



APPR	06/30/2009
DESCRIPTION	REP NUMBER
REV	DATE
PROJECT MANAGER	JOSHUA H REYNOLDS
DESIGNER	CBS400

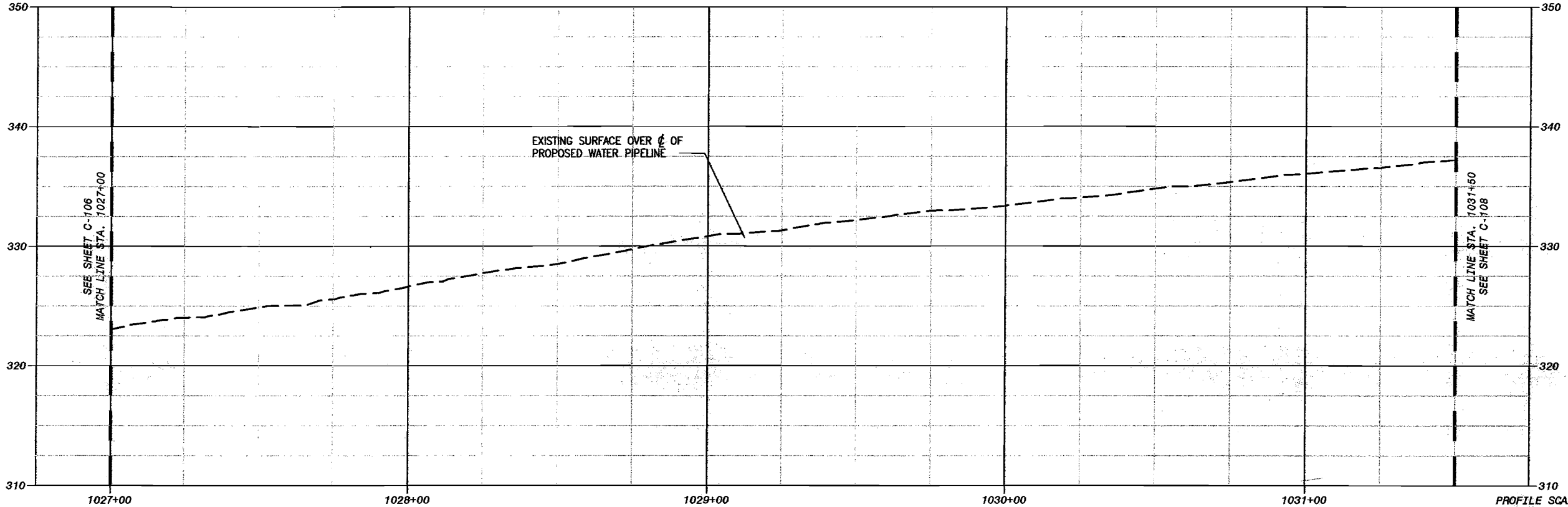
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**NIPOMO COMMUNITY SERVICES DISTRICT**  
**WATERLINE INTERLINE PROJECT - BP2**  
**ORCHARD STREET**  
**PLAN AND PROFILE**  
**STA 1022+50 to STA. 1027+00**

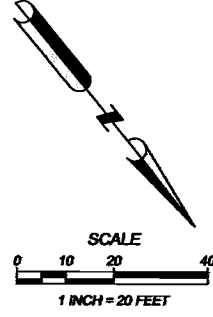
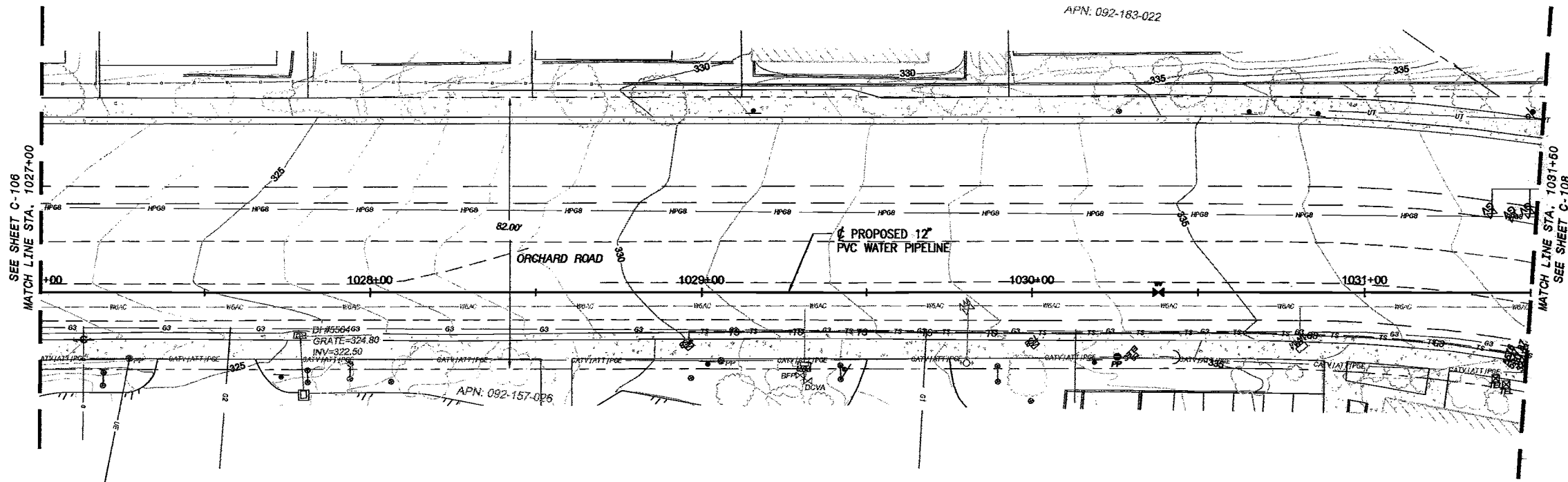
DESIGNED: JWR  
 DETAILED: JPF  
 CHECKED:  
 APPROVED:  
 DATE: MARCH 2009  
 AECOM PROJECT NO.  
 80061206.0001  
 NCS PROJECT NO.

CADD STDS.  
 BOYLE  
**C-106**  
 SHEET  
 8 OF 84

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 WAKES: Nipomo Topo.dwg - Santa Maria Waterline - Aid - Santa Maria Waterline - 2 - Aid -



PROFILE SCALE  
 HORIZONTAL 1"=20'  
 VERTICAL 1"=5'



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 DATE: MARCH 31, 2009

0 1/2 1  
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 NOT TO FULL SCALE

APPD	09/30/2009
DESCRIPTION	065400
DATE	
PROJECT ENGINEER	JOSHUA H. REYNOLDS
REV	

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**NIPOMO COMMUNITY SERVICES DISTRICT  
 WATERLINE INTERLINE PROJECT - BP2**  
 ORCHARD STREET  
 PLAN AND PROFILE  
 STA 1027+00 TO STA. 1031+50

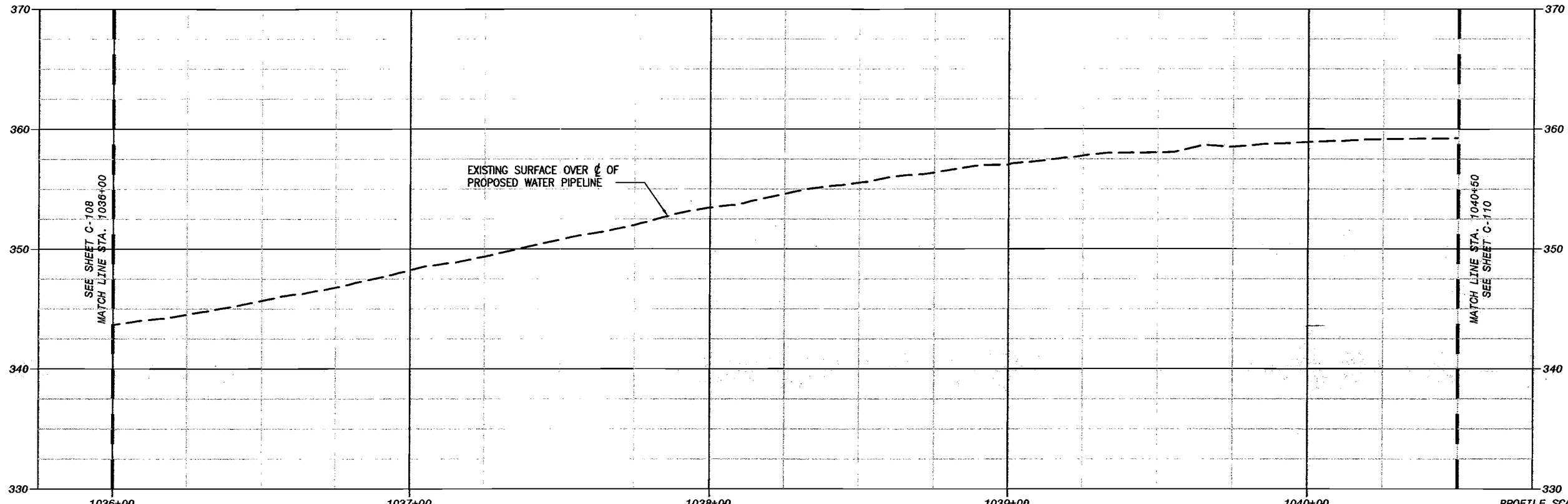
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 DETAILED: JPF  
 CHECKED:  
 APPROVED:  
 DATE: MARCH 2009  
 AECOM PROJECT NO.  
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 NCSO PROJECT NO.

CADD STDS.  
 BOYLE  
**C-107**  
 SHEET  
 9 OF 64

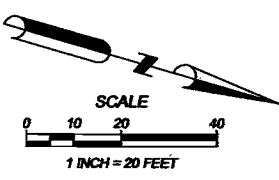
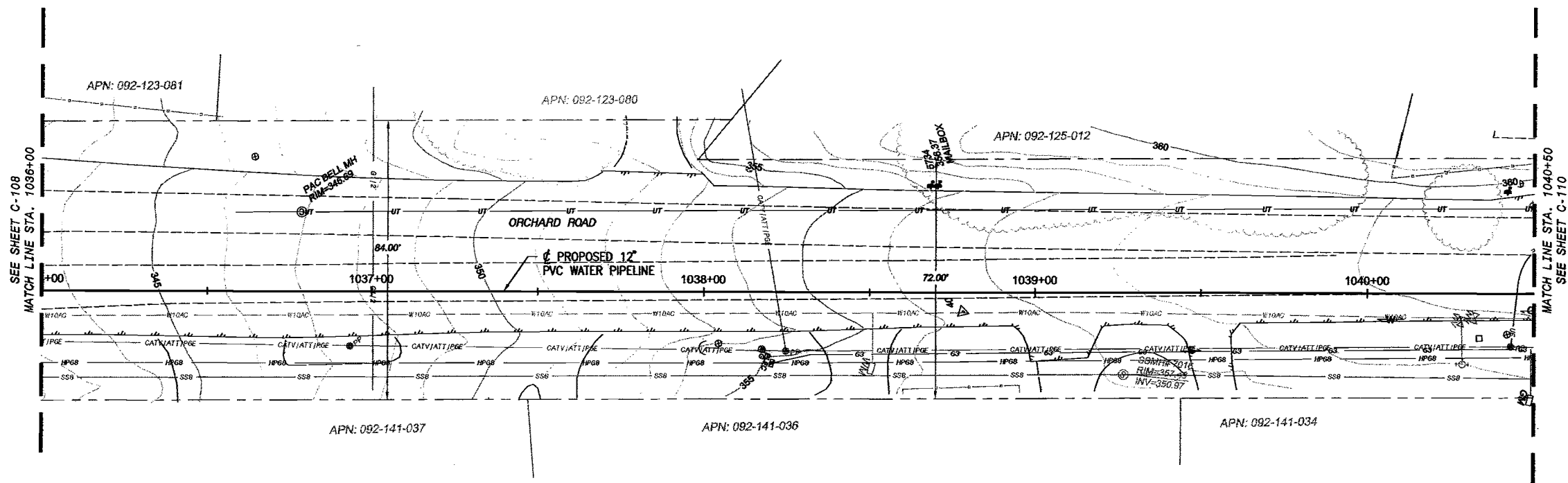




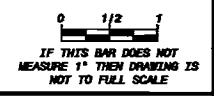
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PROFILE SCALE  
 HORIZONTAL 1"=20'  
 VERTICAL 1"=5'

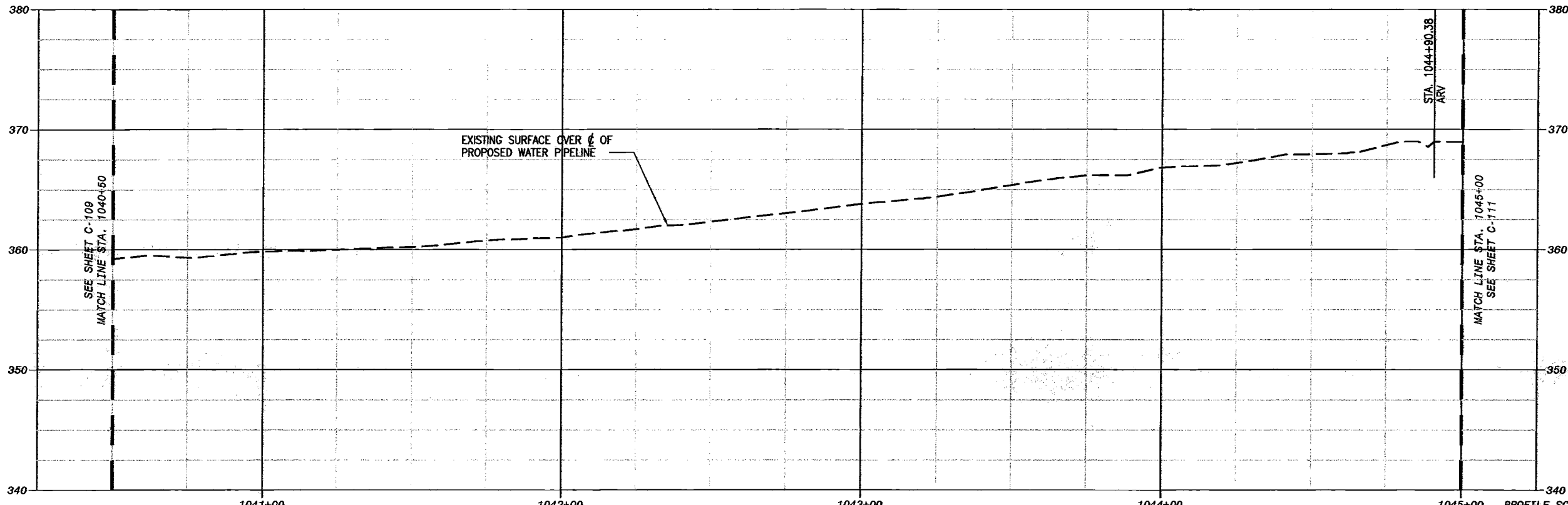


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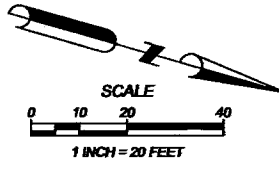
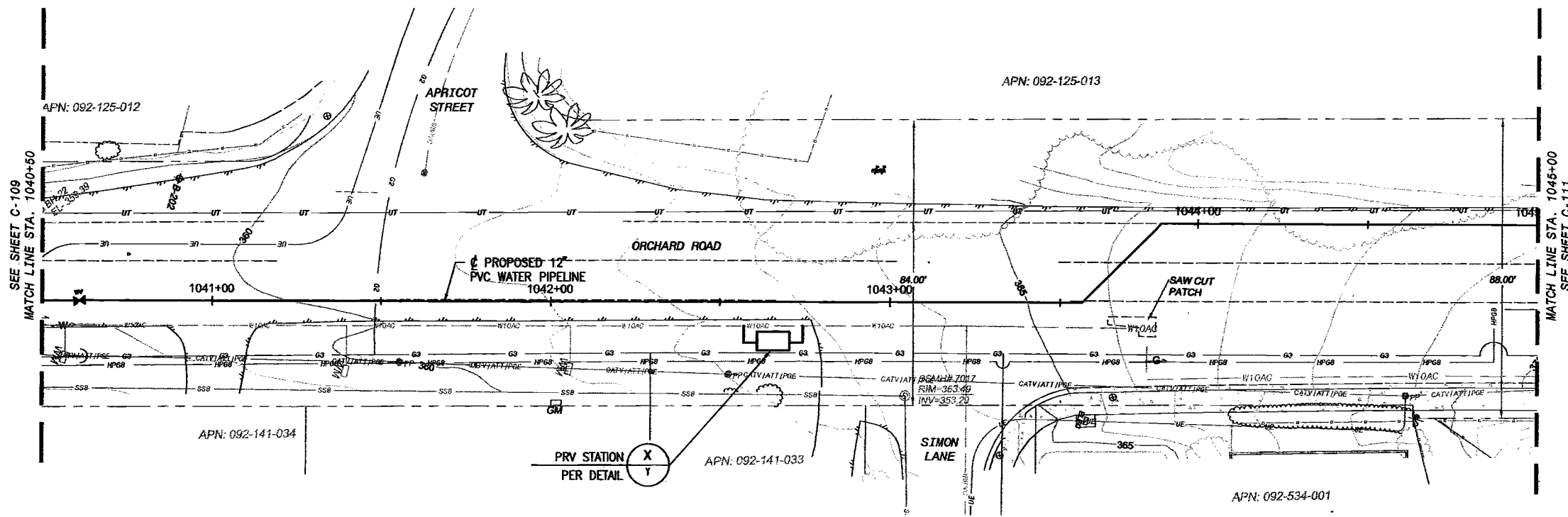


<b>AECOM</b> <small>           AECOM USA, Inc.            10000 Wilshire Blvd., Suite 200            Los Angeles, California 90024            T 805.542.3840 F 805.542.3890            www.aecom.com         </small>	<b>ORCHARD STREET          WATERLINE INTERTIE PROJECT - BP2          PLAN AND PROFILE          STA 1036+00 to STA. 1040+50</b>
DESIGNED: JPH DETAILED: JFF CHECKED: APPROVED: DATE: MARCH 2009 AECOM PROJECT NO. 00081285.0001 NCSO PROJECT NO.	CADD STDS. BOYLE <b>C-109</b> SHEET 11 OF 64
PROJECT ENGINEER JOSHUA H. REYNOLDS REG NUMBER C65400 APPR EXP DATE 09/30/2009	

DWG: W:\Nipomo\_CSD (19999)\19999-70 Waterline Interline Project Plans\CAD\Plan\BP-2\_NIPOMO\_PIPELINE\OR Plans\C-101 to C-112.dwg Layout Name: C-110 - Picked by: Frazier, Jim Date: 4/27/2009 - 1:14 PM  
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PROFILE SCALE  
 HORIZONTAL 1"=20'  
 VERTICAL 1"=5'

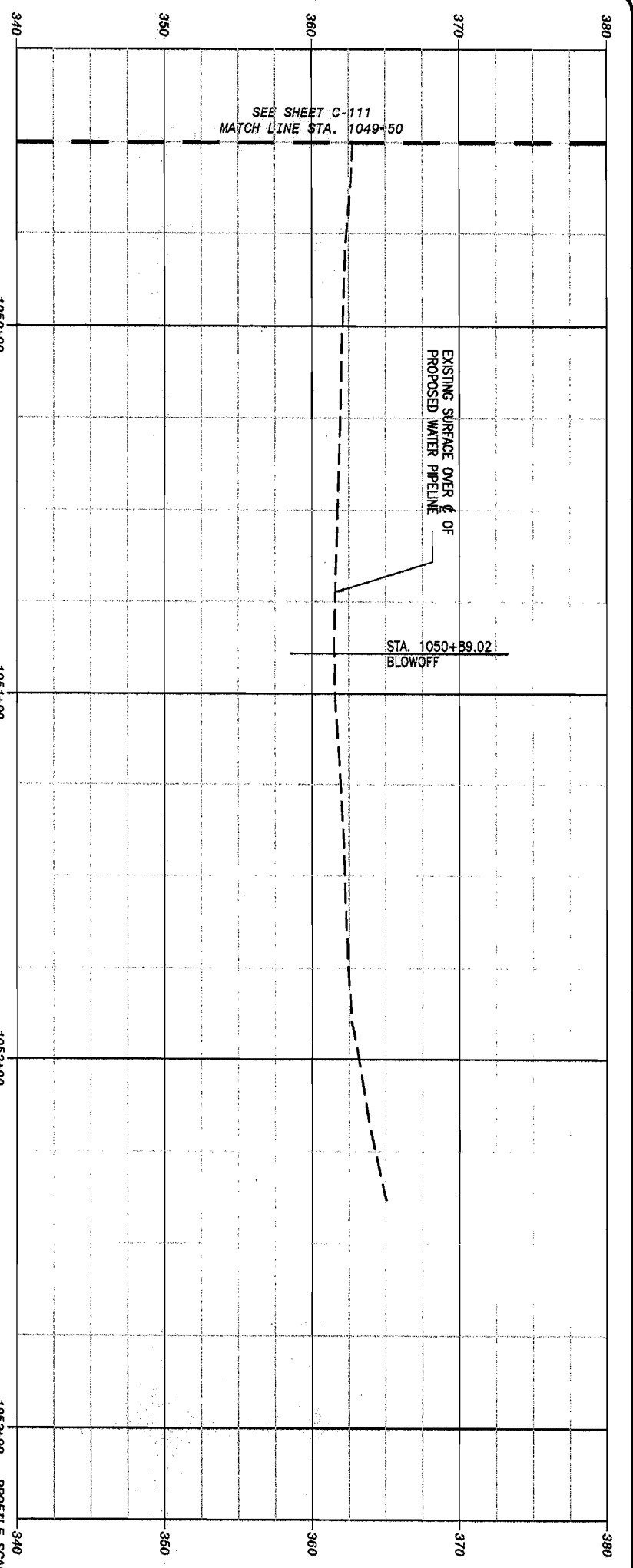
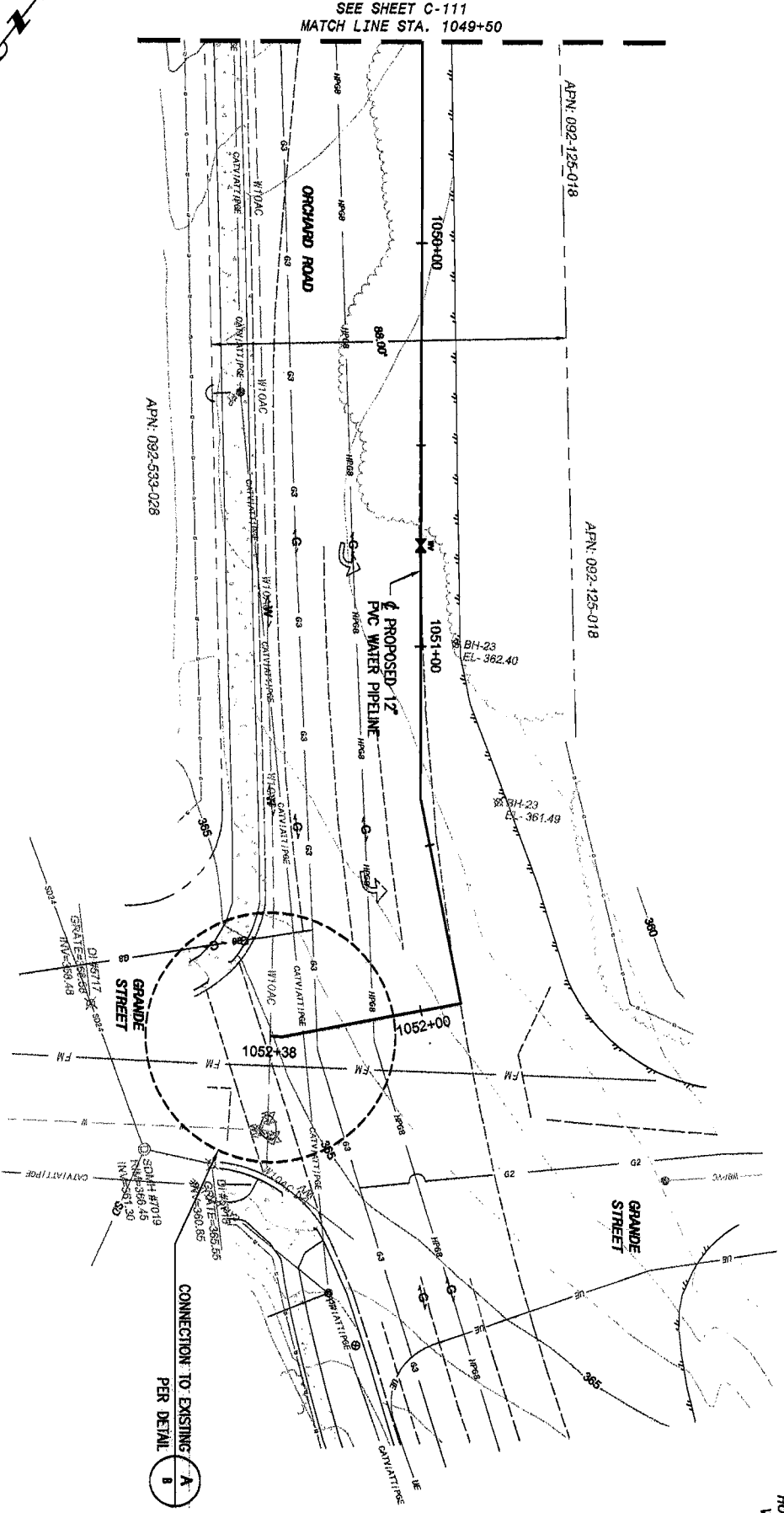
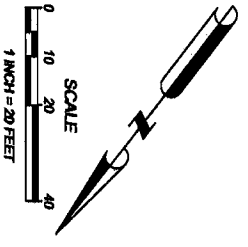


AECOM WATER  
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 DATE: MARCH 31, 2009

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<b>AECOM</b>	
AECOM USA, Inc. 1914 Pacific Street, Suite 204 San Luis Obispo, California 93401 T 805.342.3900 F 805.342.3990 www.aecom.com	PROJECT ENGINEER JOSHUA H. RETNOLDS 09/30/2009
<b>NIPOMO COMMUNITY SERVICES DISTRICT          WATERLINE INTERLINE PROJECT - BP2</b>	
<b>ORCHARD STREET          PLAN AND PROFILE          STA 1040+50 to STA. 1045+00</b>	
DESIGNED: JWR DETAILED: JWF CHECKED: APPROVED: DATE: MARCH 2009 AECOM PROJECT NO. 00061206.0001 NCSO PROJECT NO.	CADD STDS. BOYLE <b>C-110</b> SHEET 12 OF 64





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 DATE: MARCH 31, 2009



**NIPOMO COMMUNITY SERVICES DISTRICT  
 WATERLINE INTERTIE PROJECT - BP2**

**ORCHARD STREET  
 PLAN AND PROFILE  
 STA 1049+50 to STA. 1053+00**

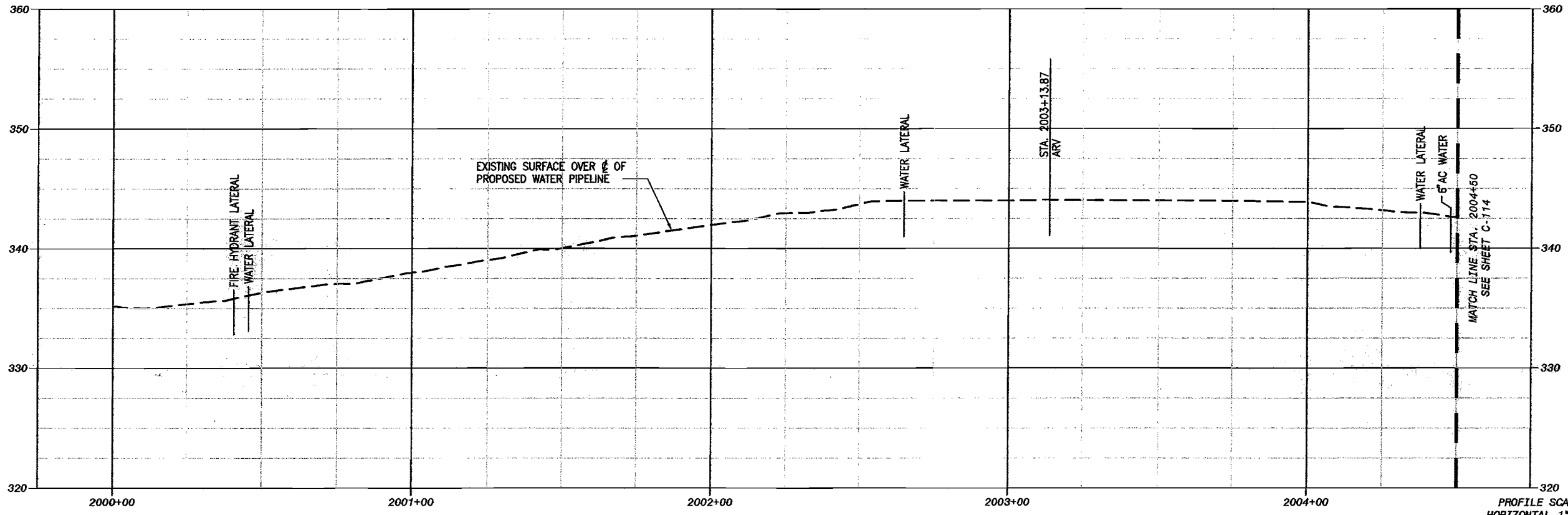
DESIGNER: JMR	DATE: MARCH 2009
DRAWN: JMR	AECOM PROJECT NO. 09092906.0001
CHECKED: JMR	NCSO PROJECT NO.
APPROVED: JMR	CADD STOS.
DATE: MARCH 2009	SHEET NO. 14 OF 64



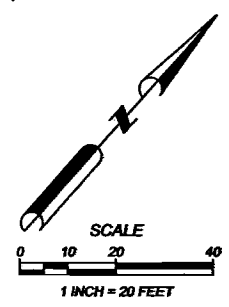
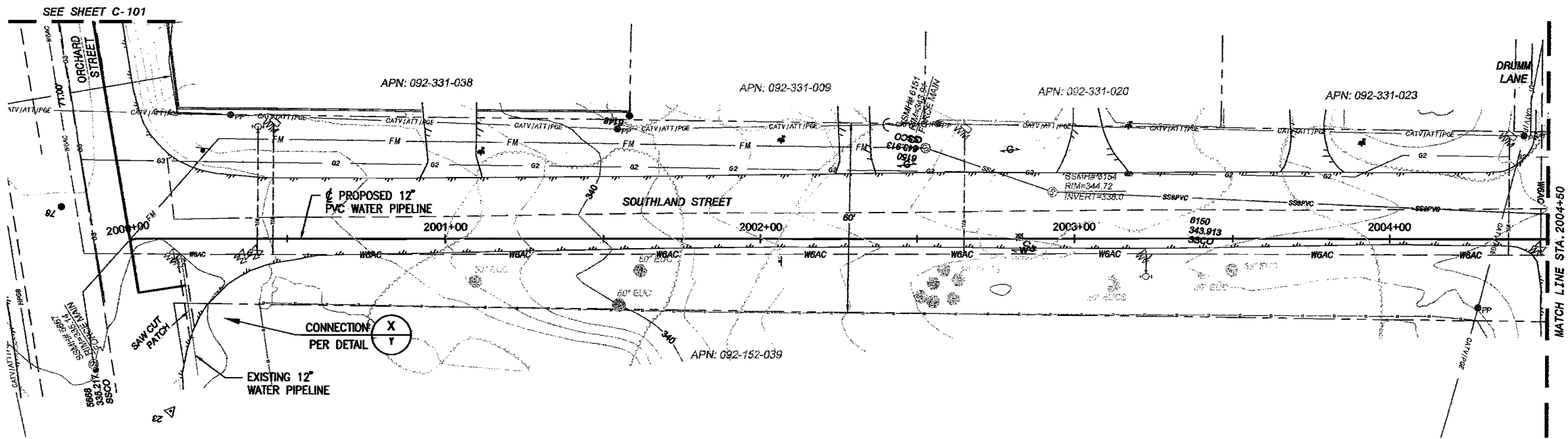
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REV	DATE	DESCRIPTION	APPR
PROJECT ENGINEER	REG NUMBER	EXP DATE	
JOSHUA H. REYNOLDS	C65400	09/30/2009	

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 Plotted by: Freilicher, Jim



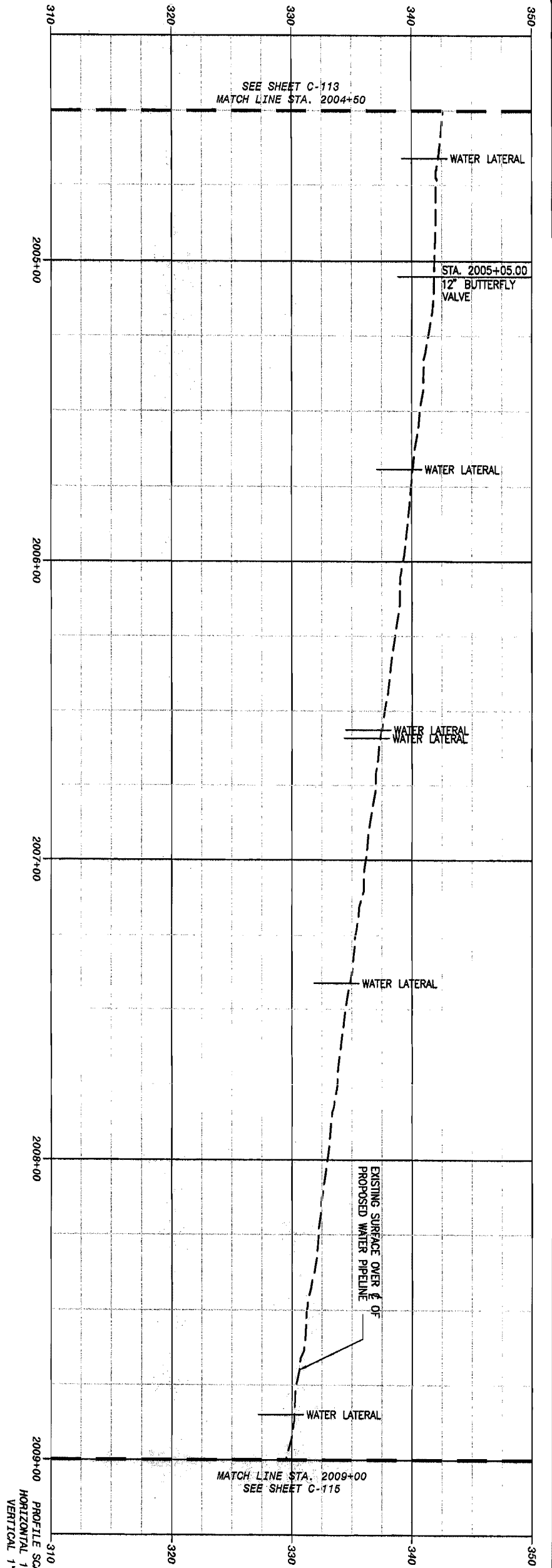
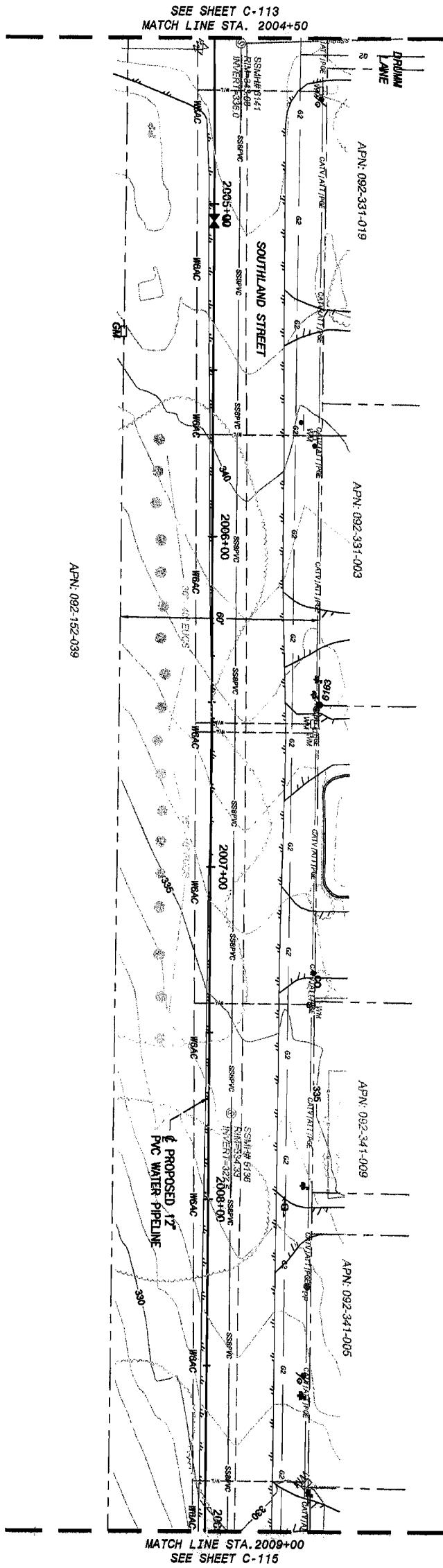
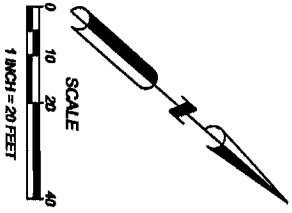
PROFILE SCALE  
 HORIZONTAL 1"=20'  
 VERTICAL 1"=5'



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 DATE: MARCH 31, 2009

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 MEASURE 1" THEN DRAWING IS  
 NOT TO FULL SCALE

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<b>SOUTHLAND STREET WATERLINE INTERLINE PROJECT - BP2</b> <b>SOUTHLAND STREET PLAN AND PROFILE</b> <b>STA 2000+00 to 2004+50</b>
<small>           DESIGNED: JPR            DETAILED: JPF            CHECKED:            APPROVED:            DATE: MARCH 2009            AECOM PROJECT NO.            60081295.0001            NCS0 PROJECT NO.         </small>
<small>           CADD STDS.            BOYLE  <b>C-113</b>            SHEET            15 OF 64         </small>



**FOR PRELIMINARY USE ONLY**  
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 DATE: MARCH 31, 2009



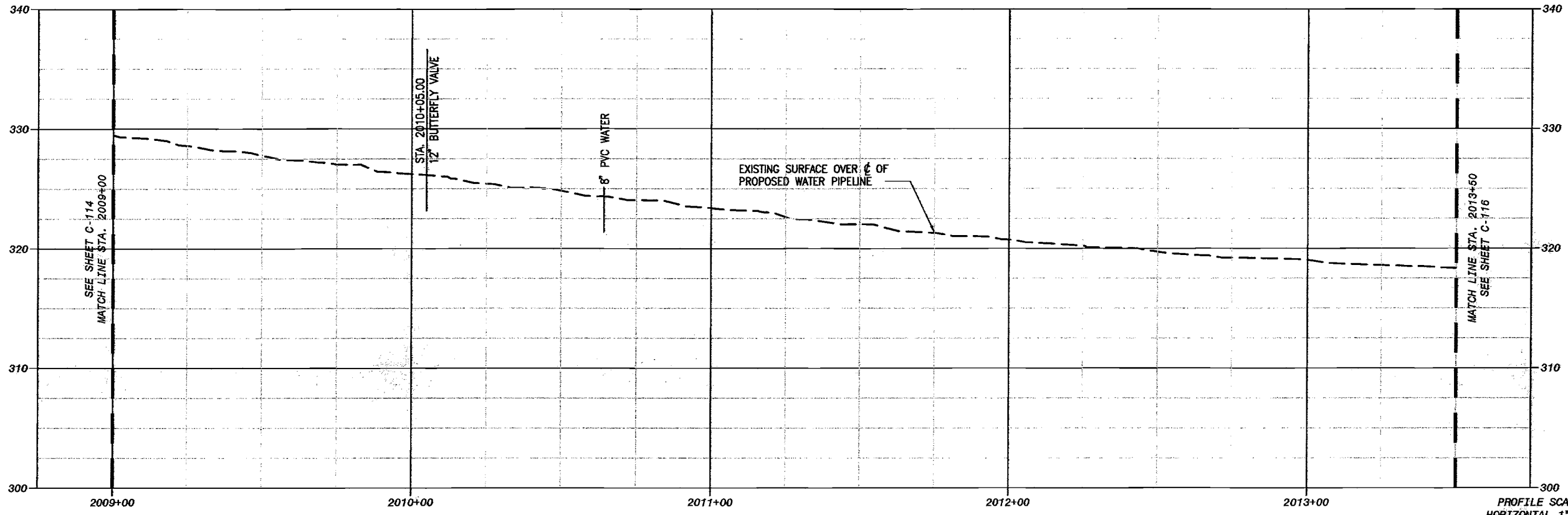
**NIPOMO COMMUNITY SERVICES DISTRICT  
 WATERLINE INTERLIE PROJECT - BP2**  
**SOUTHLAND STREET  
 PLAN AND PROFILE  
 STA 2004+50 to 2009+00**

DESIGNED: JMS	CADD STDS: [ ]
CHECKED: JPT	DATE: MARCH 2009
APPROVED: [ ]	AECOM PROJECT NO. 00041936.0001
DATE: MARCH 2009	NCSO PROJECT NO. [ ]

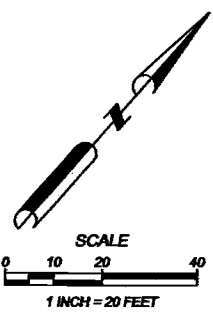
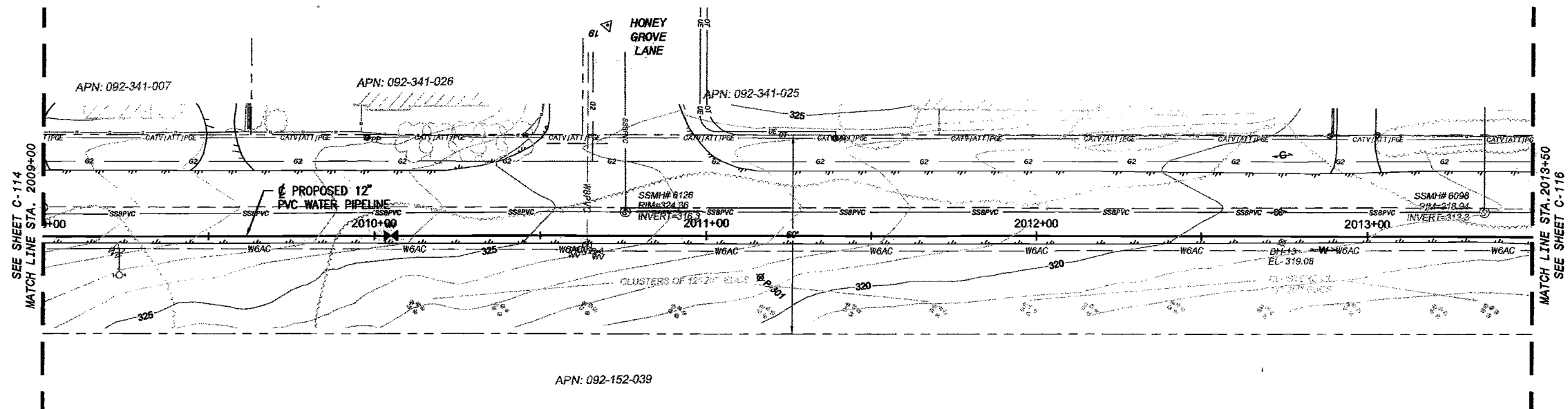
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REV	DATE	DESCRIPTION	APPR
PROJECT ENGINEER	REG NUMBER	EXP DATE	
JOSHUA H REYNOLDS	C65400	09/30/2009	

DWG: W:\Nipomo\_CSD (1998) 1998-70 Waterline Interline Project Design Plans\GIS\Plan\BP-2\_WUPROD\_PIPELINE\BP-2\_WUPROD\_PIPELINE.dwg  
 XREFS: NCS-80\_BP2 - Ego points - Nipocobona - Surface-Stationing - EA-Utilities - Nipocobona - Surface-Stationing - EA-Utilities  
 Date: 4/27/2009 - 1:58 PM  
 Plotted by: Fretschler, Jim  
 Layout Name: C-115  
 Plot Date: 4/27/2009 - 1:58 PM  
 Plot Scale: 1"=20'



PROFILE SCALE  
 HORIZONTAL 1"=20'  
 VERTICAL 1"=5'



AECOM WATER  
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 NOT TO BE USED FOR CONSTRUCTION  
 DATE: MARCH 31, 2009

1/2"  
 IF THIS BAR DOES NOT  
 MEASURE 1" THEN DRAWING IS  
 NOT TO FULL SCALE

APPR	DATE	DESCRIPTION	REP NUMBER	REP DATE
			086400	09/30/2009
PROJECT ENGINEER				
JOSHUA H. REYNOLDS				

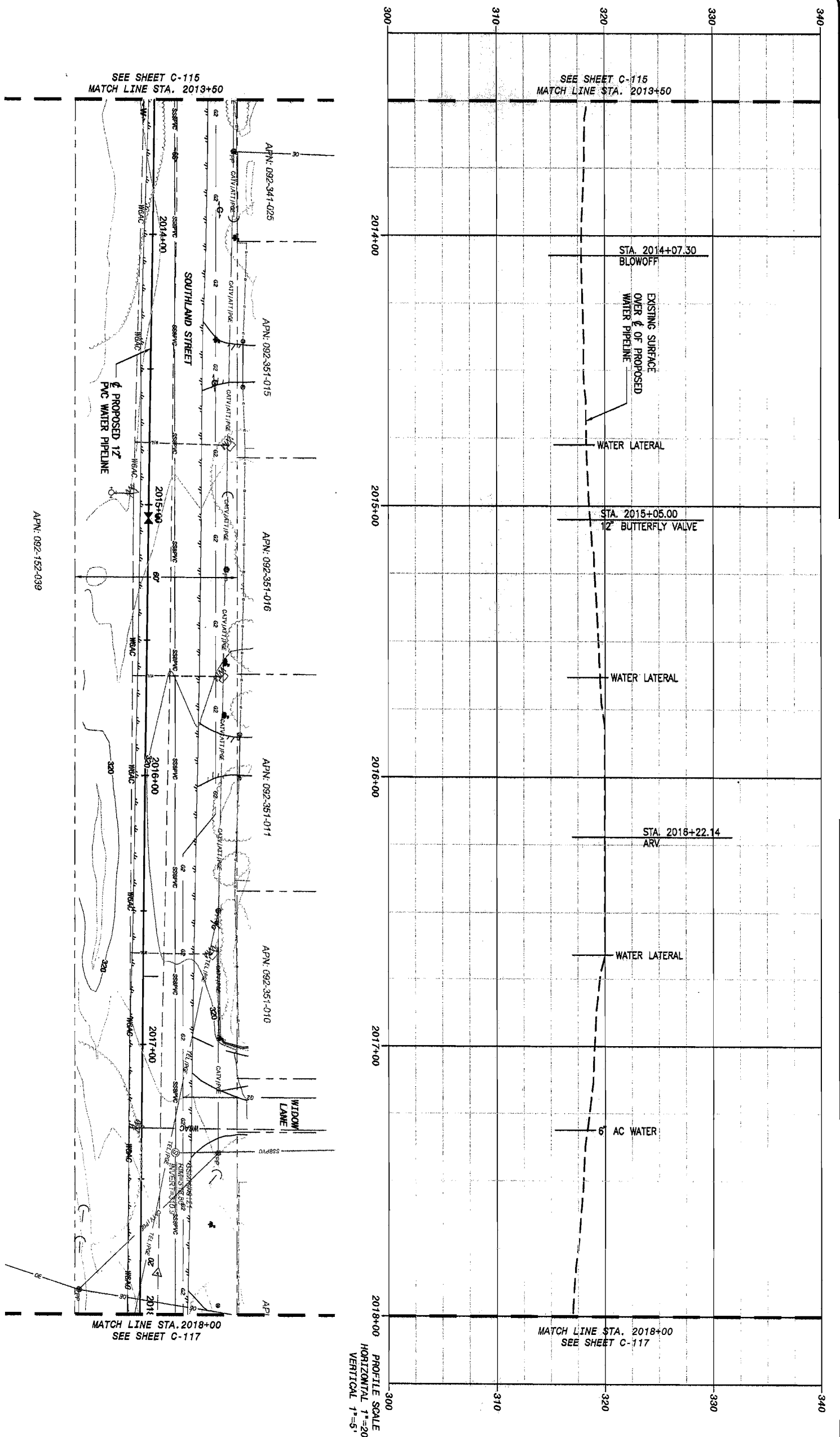
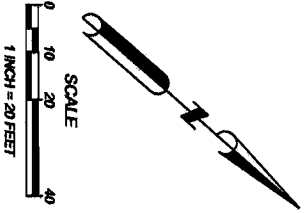
**AECOM**

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**NIPOMO COMMUNITY SERVICES DISTRICT**  
**WATERLINE INTERLINE PROJECT - BP2**  
**SOUTHLAND STREET**  
**PLAN AND PROFILE**  
**STA 2009+00 TO 2013+50**

DESIGNED: JMR
DETAILED: JPF
CHECKED:
APPROVED:
DATE: MARCH 2009
AECOM PROJECT NO. 80081295.0001
NCSO PROJECT NO.

CADD STDS.  
 BOYLE  
**C-115**  
 SHEET  
 17 OF 64



**FOR PRELIMINARY USE ONLY**  
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 DATE: MARCH 31, 2009



**NIPOMO COMMUNITY SERVICES DISTRICT  
 WATERLINE INTERLIE PROJECT - BP2**

**SOUTHLAND STREET  
 PLAN AND PROFILE  
 STA 2013+50 to 2018+00**



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REV	DATE	DESCRIPTION	APPR
PROJECT ENGINEER		REV NUMBER	EXP DATE
JOSHUA H REYNOLDS		C85400	09/30/2009

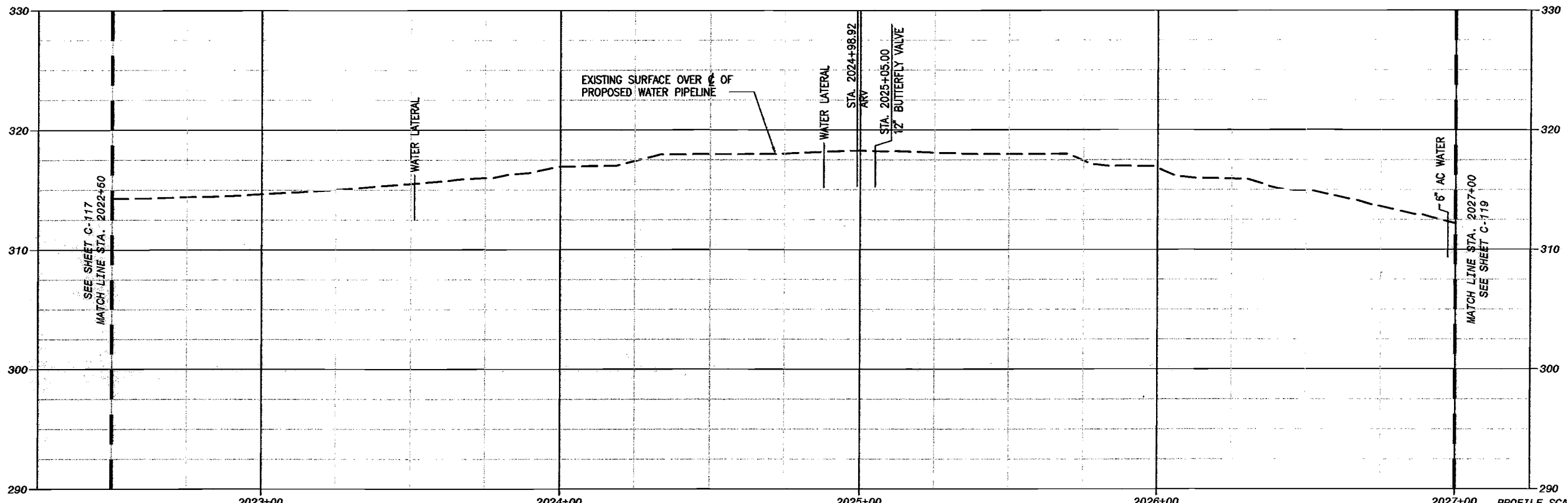
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 SHEET  
 19 OF 64

DESIGNED: JAM  
 DRAWN: JRP  
 CHECKED: JRP  
 DATE: JANUARY 2009  
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 0001296-0001  
 NCSD PROJECT NO.

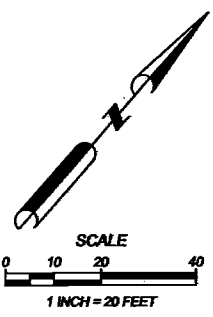
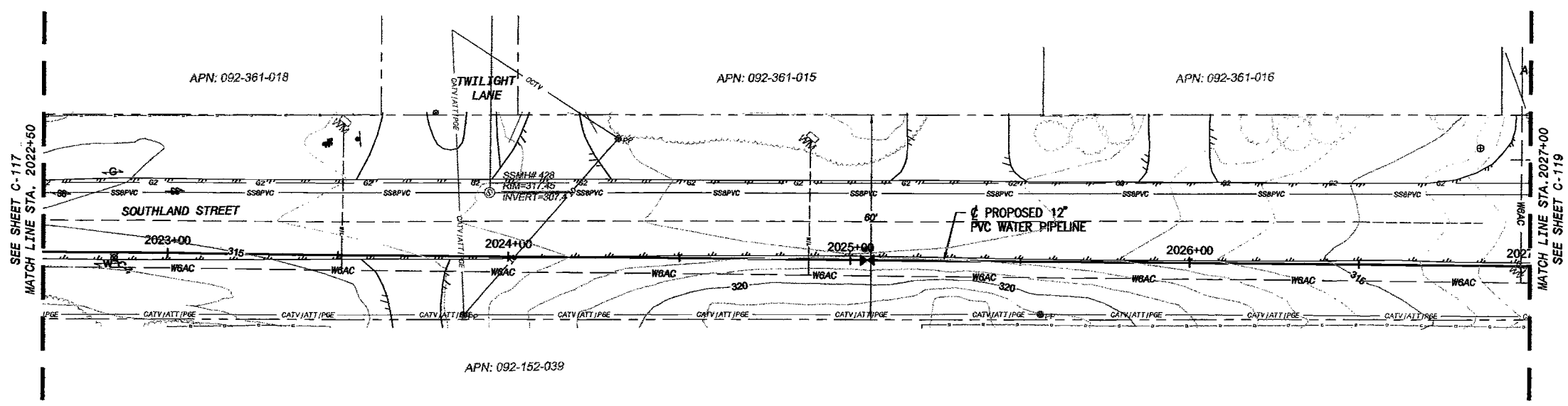




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PROFILE SCALE  
 HORIZONTAL 1"=20'  
 VERTICAL 1"=5'



AECOM WATER  
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 DATE: MARCH 31, 2009

0 1/2 1  
 IF THIS BAR DOES NOT  
 MEASURE 1" THEN DRAWING IS  
 NOT TO FULL SCALE

APP#	C95-600	EXP DATE	09/30/2009
DESCRIPTION	C95-600	PROJECT ENGINEER	JOSHUA H. REMYOLDS
DATE			

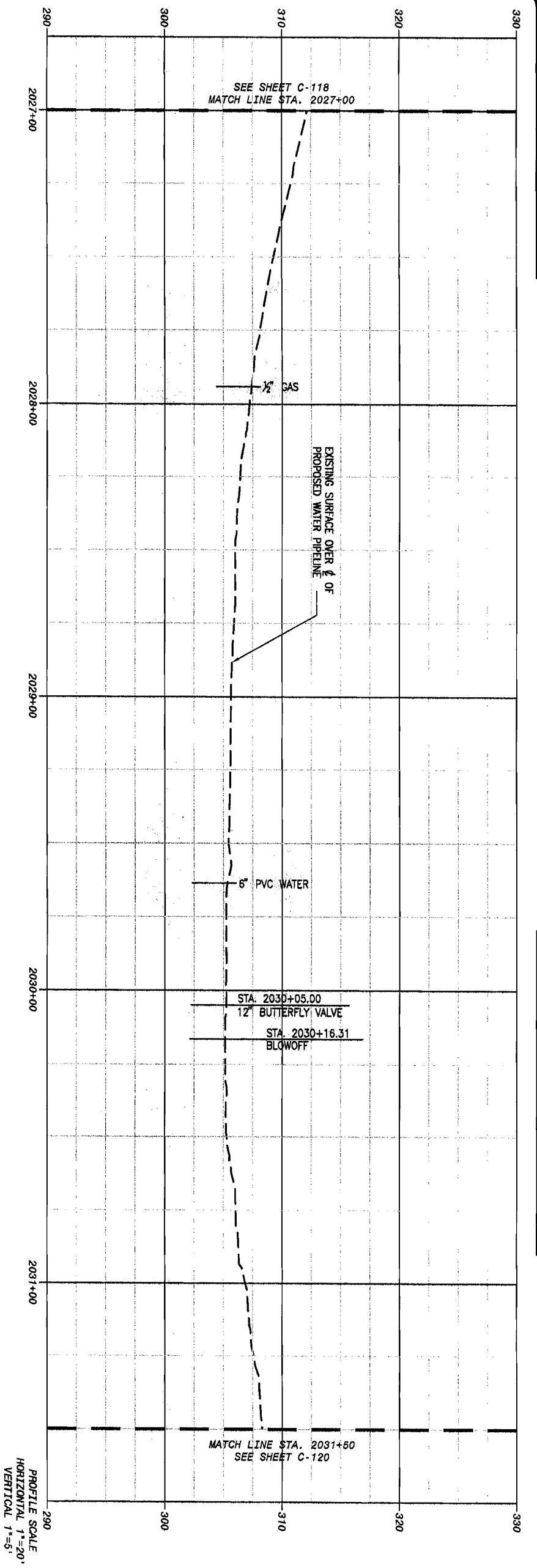
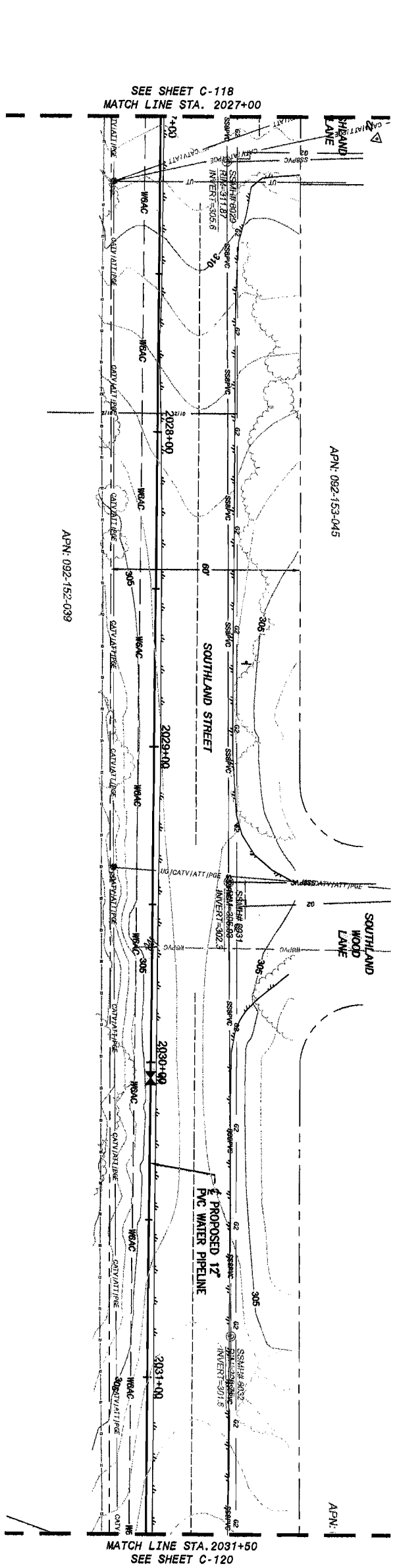
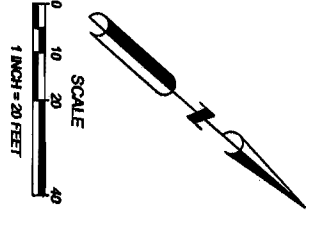
**AECOM**

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**NIPOMO COMMUNITY SERVICES DISTRICT**  
**WATERLINE INTERLINE PROJECT - BP2**  
**SOUTHLAND STREET**  
**PLAN AND PROFILE**  
**STA 2022+50 to 2027+00**

DESIGNED: JRR  
 DETAILED: JPF  
 CHECKED:  
 APPROVED:  
 DATE: MARCH 2009  
 AECOM PROJECT NO.  
 60061295.0001  
 NCSO PROJECT NO.

CADD STDS.  
 BOYLE  
**C-118**  
 SHEET  
 20 OF 64



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AECOM WATER  
 DATE: MARCH 31, 2009

IF THIS BOX IS NOT  
 REPRODUCED, THE  
 DRAWING IS NOT TO BE  
 USED AT ALL SCALES

**NIPOMO COMMUNITY SERVICES DISTRICT  
 WATERLINE INTERTIE PROJECT - BP2**

**SOUTHLAND STREET  
 PLAN AND PROFILE  
 STA 2027+00 to 2031+50**

DESIGNER: JIM REYNOLDS, J.P.	DATE: JANUARY 2009
CHECKER:	AECOM PROJECT NO. 09097296.0001
APPROVER:	MCSO PROJECT NO.
CADD STDS. ROUTE	
<b>C-119</b>	
<b>SHEET</b>	
<b>21 OF 64</b>	



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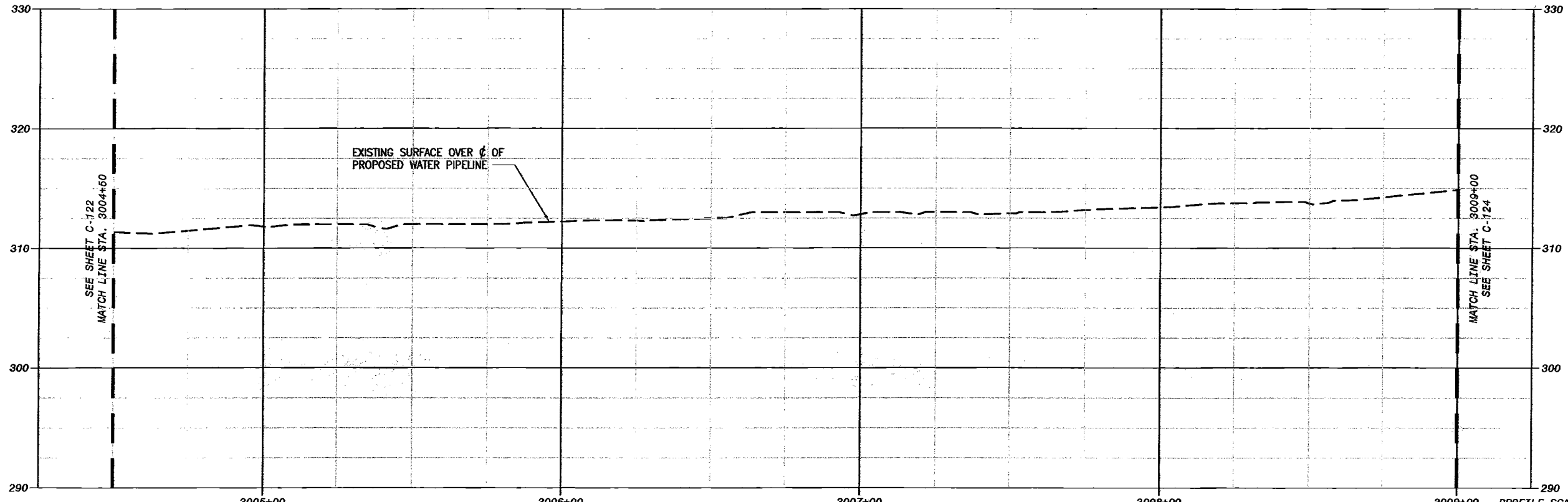
REV	DATE	DESCRIPTION	APPR
PROJECT ENGINEER		REQ NUMBER	EXP DATE
JOSHUA H. REYNOLDS		C85400	09/30/2009



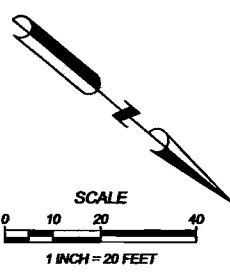
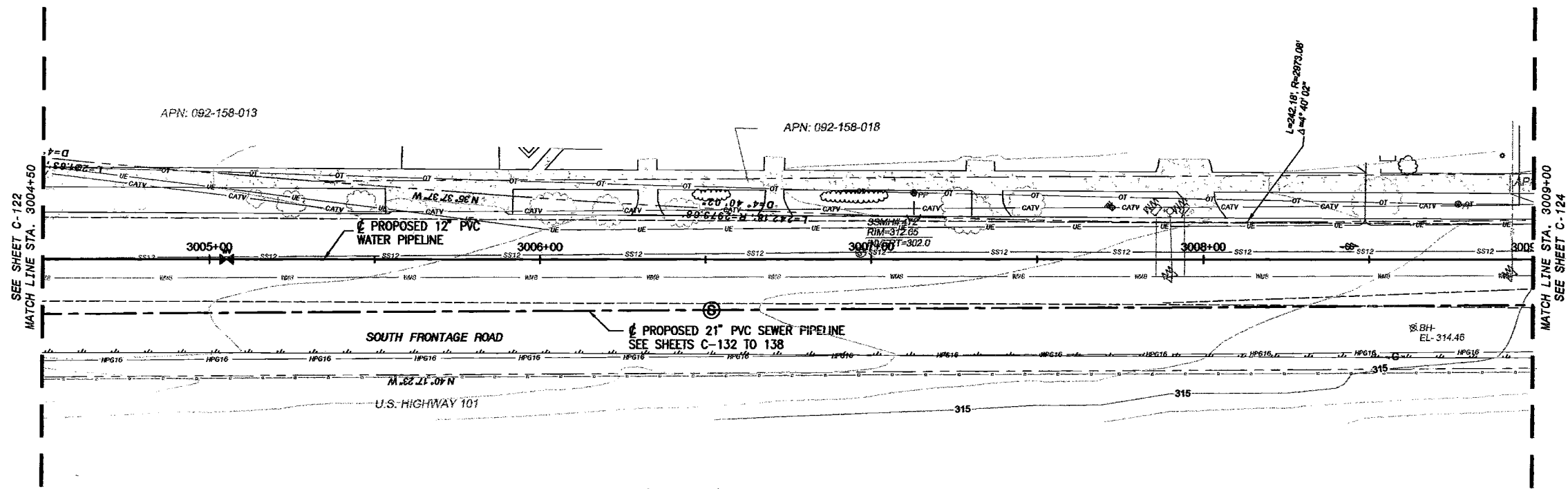




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 User: JPH  
 Date: 4/27/2009 1:58 PM  
 Plotted by: Freilicher, Jim  
 Layout Name: C-123  
 Plot Date: 4/27/2009 1:58 PM  
 PLOT SCALE: 1"=20'  
 APPR: Surface Stationing - 4-5 - Auto points - USC - SD - BP2 - WUPOND - Ex - Utility  
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PROFILE SCALE  
 HORIZONTAL 1"=20'  
 VERTICAL 1"=5'



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 DATE: MARCH 31, 2009

IF THIS BAR DOES NOT  
 MEASURE 1" THEN DRAWING IS  
 NOT TO FULL SCALE

APPN	DESCRIPTION	REG NUMBER	EXP DATE
		C65-000	09/30/2009
REV	DATE	PROJECT ENGINEER	
1		JOSHUA H. REYNOLDS	

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**NIPOMO COMMUNITY SERVICES DISTRICT**  
**WATERLINE INTERTIE PROJECT - BP2**  
**SOUTH FRONTAGE WATER**  
**PLAN AND PROFILE**  
**STA 3004+50 to 3009+00**

DESIGNED: JPH  
 DETAILED: JPH  
 CHECKED:  
 APPROVED:  
 DATE: MARCH 2009  
 AECOM PROJECT NO.  
 80081295.0001  
 NCSO PROJECT NO.

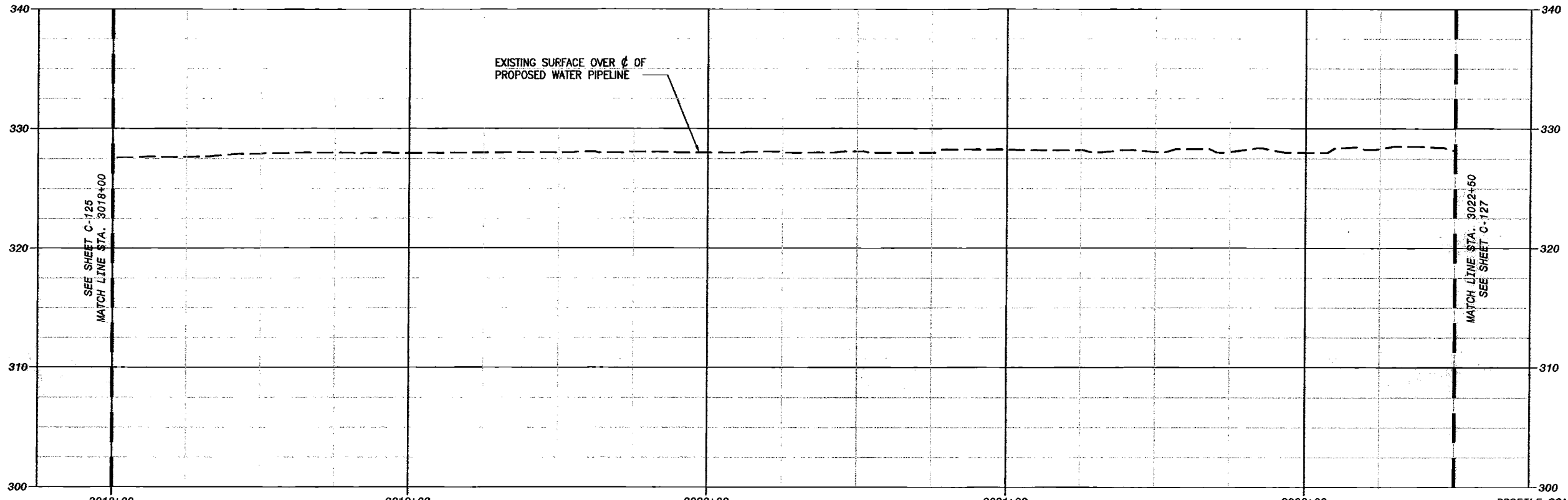
CADD STDS.  
 BOYLE  
**C-123**  
 SHEET  
 25 OF 64



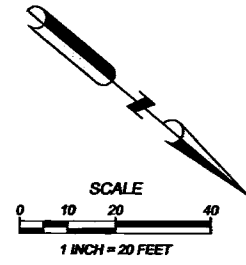
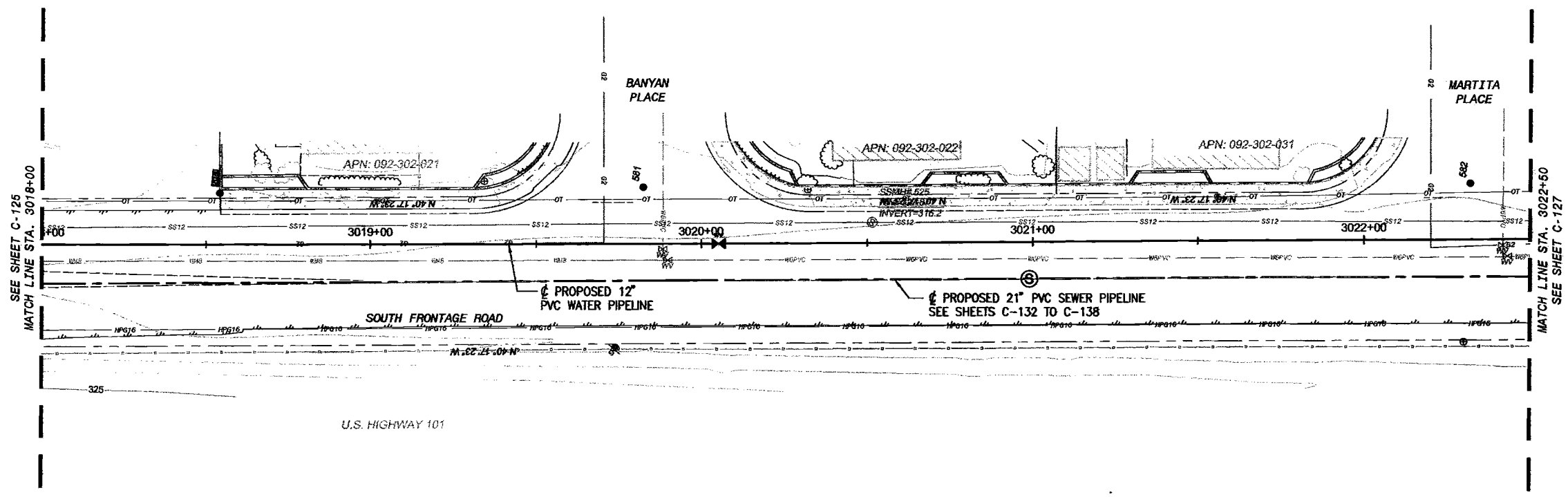




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 PLOTTED BY: Fraasch, Jim Date: 4/27/2009 - 2:00 PM  
 XREFS: Surface-Station3-4-5 - Layer Station - Ex-Utilities  
 MAPS: Nipomo - Map/Map - Station Waterline-1-2-3 - Station Waterline-2-3-4 - Station Waterline-2-3-4



PROFILE SCALE  
 HORIZONTAL 1"=20'  
 VERTICAL 1"=5'



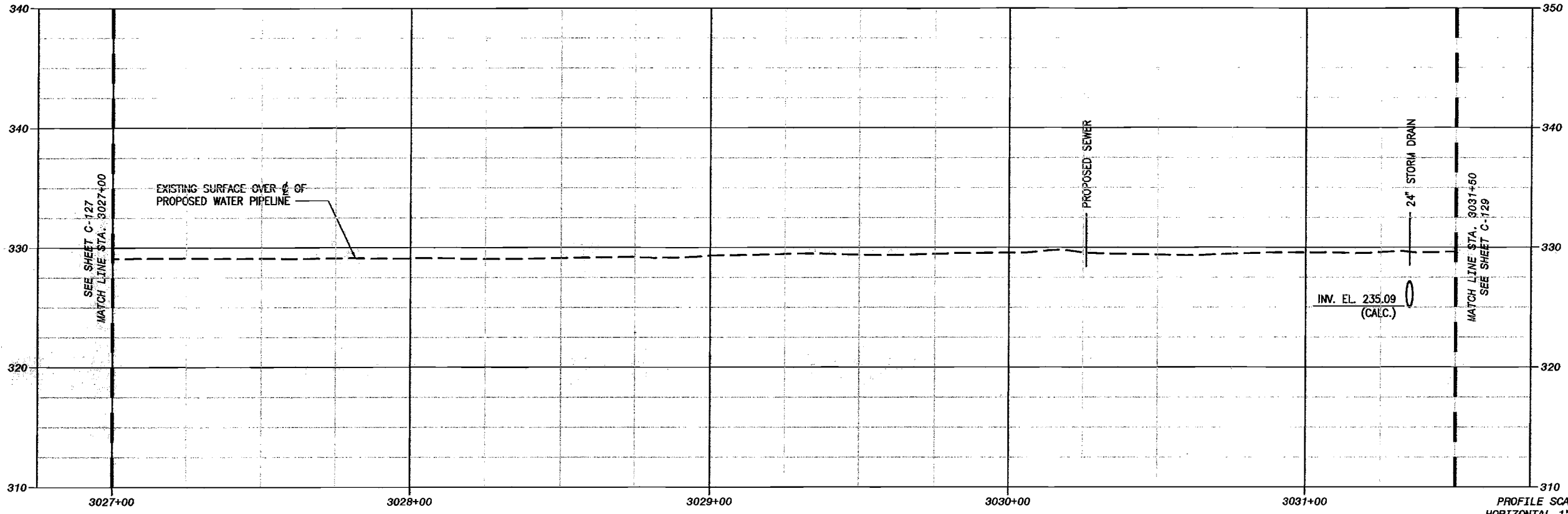
AECOM WATER  
**FOR PRELIMINARY USE ONLY**  
 NOT TO BE USED FOR CONSTRUCTION  
 DATE: MARCH 31, 2009

IF THIS BAR DOES NOT  
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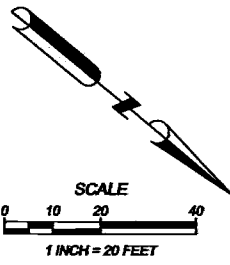
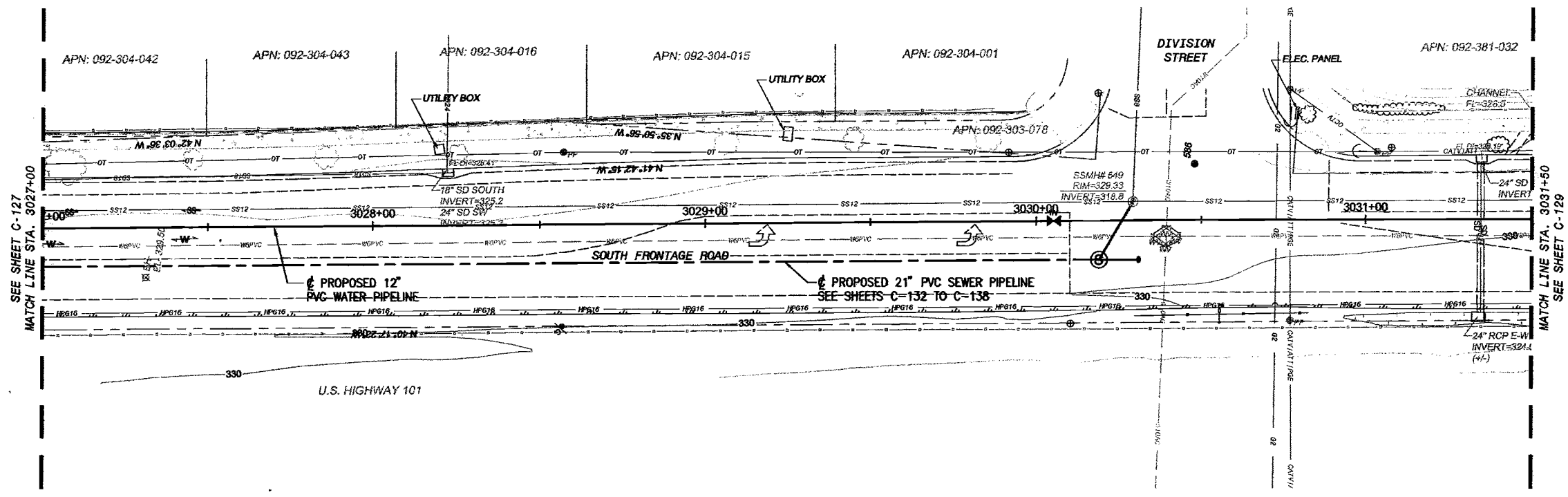
<b>AECOM</b> <small>           AECOM USA, Inc.            1184 Pacific Street, Suite 204            San Luis Obispo, California 93401            T 805.542.2940 F 805.542.9990            www.aecom.com         </small>
<b>NIPOMO COMMUNITY SERVICES DISTRICT          WATERLINE INTERLINE PROJECT - BP2</b>
<b>SOUTH FRONTAGE WATER          PLAN AND PROFILE          STA 3018+00 to 3022+50</b>
<small>           DESIGNED: JWR            DETAILED: JPF            CHECKED:            APPROVED:            DATE: MARCH 2009            AECOM PROJECT NO.            80061296.0001            NCSO PROJECT NO.         </small>
<small>           CADD STDS.            BOYLE         </small>
<b>C-126</b> <b>SHEET</b> <b>28 OF 64</b>



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PROFILE SCALE  
 HORIZONTAL 1"=20'  
 VERTICAL 1"=5'



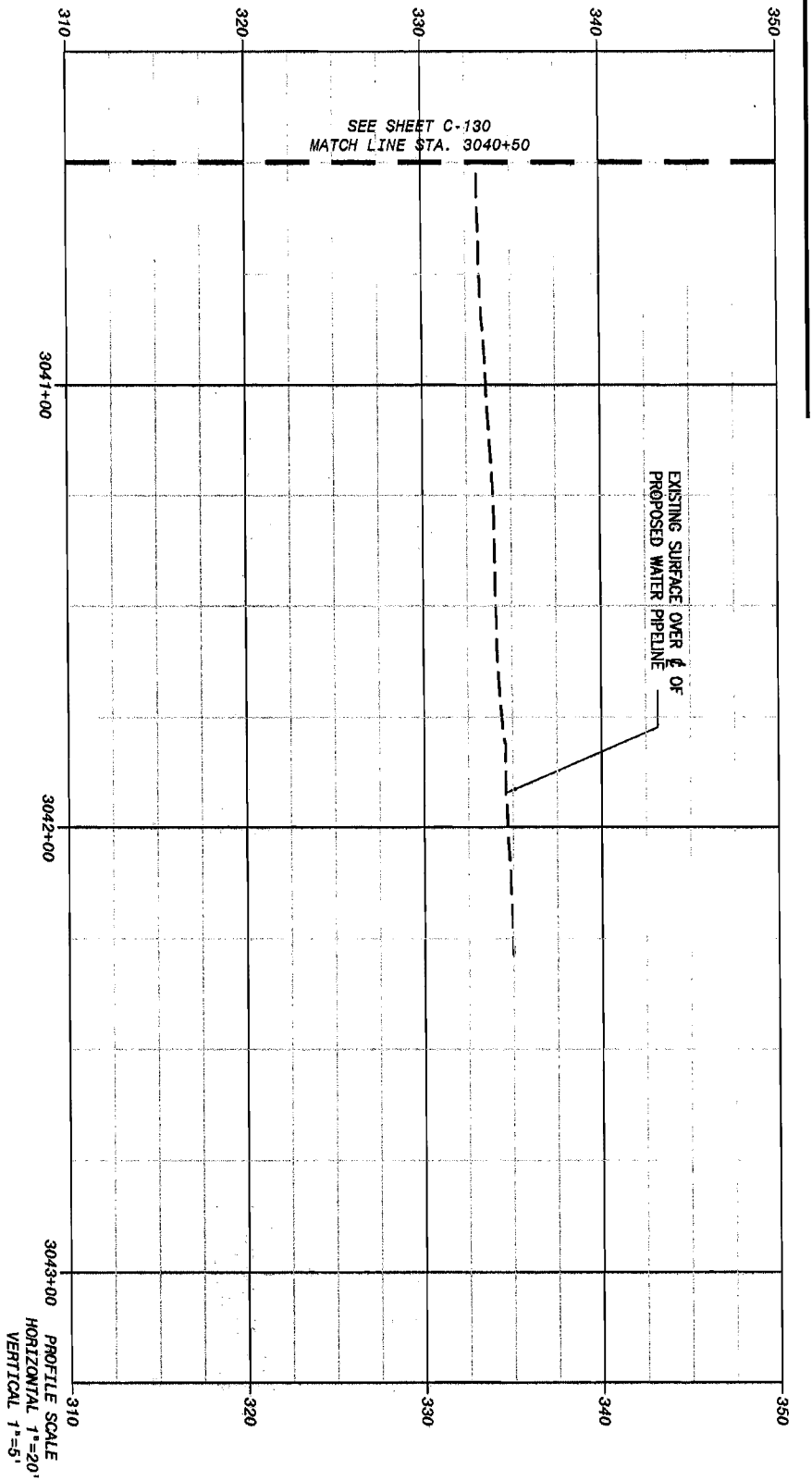
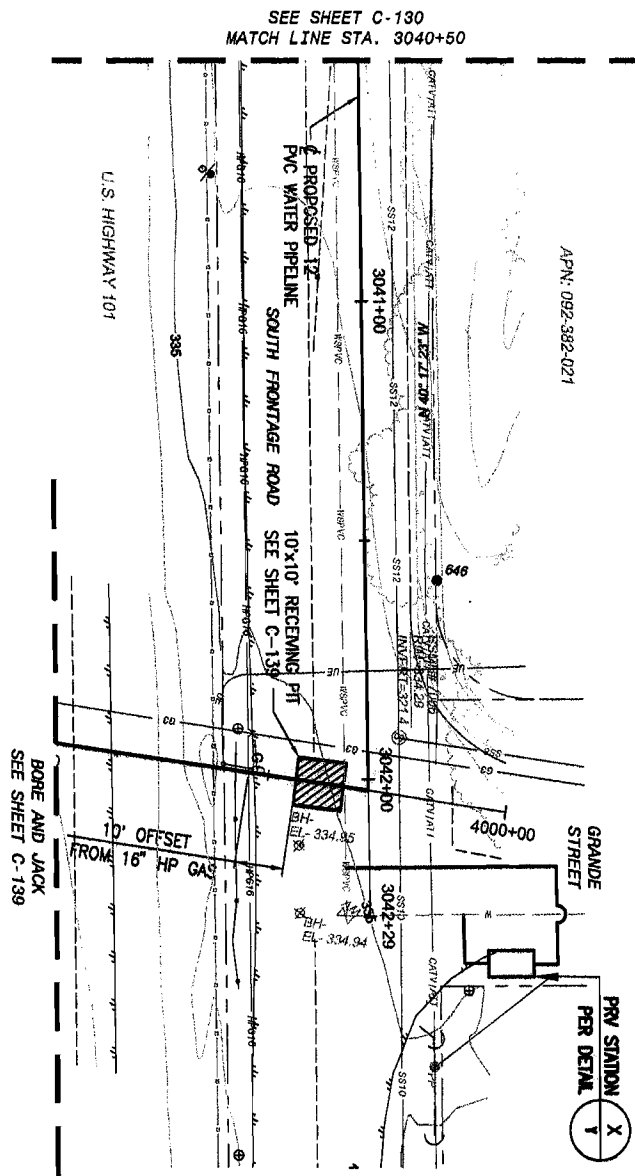
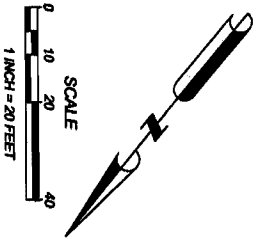
AECOM WATER  
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 NOT TO BE USED FOR CONSTRUCTION  
 DATE: MARCH 31, 2009

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 IF THIS BAR DOES NOT  
 MEASURE 1" THEN DRAWING IS  
 NOT TO FULL SCALE

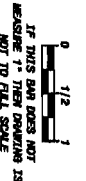
<b>AECOM</b>	
AECOM USA, Inc. 1155 W. El Camino, Suite 204 San Luis Obispo, California 93401 T 805.542.8940 F 805.542.8980 www.aecom.com	PROJECT ENGINEER JOSHUA H. REYNOLDS C65400
DESIGNER: JAW DETAILER: JPF CHECKED: APPROVED: DATE: MARCH 2009 AECOM PROJECT NO.: 00081296.0001 NCS3 PROJECT NO.:	APRIL DATE DESCRIPTION REVISION NUMBER C65400 09/30/2009
<b>NIPOMO COMMUNITY SERVICES DISTRICT          WATERLINE INTERTIE PROJECT - BP2</b>	
<b>SOUTH FRONTAGE WATER          PLAN AND PROFILE          STA 3027+00 to 3031+50</b>	
<b>C-128</b> SHEET 30 OF 64	







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 DATE: MARCH 31, 2009



DESIGNED: JHR  
 CHECKED: JHR  
 DATE: MARCH 2009  
 AECOM PROJECT NO. 60001296.0001  
 NCSO PROJECT NO. 0400 STDS.  
 BOML

**NIPOMO COMMUNITY SERVICES DISTRICT  
 WATERLINE INTERTIE PROJECT - BP2**  
**SOUTH FRONTAGE WATER  
 PLAN AND PROFILE  
 STA 3040+50 to 3043+00**



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REV	DATE	DESCRIPTION	APPR
PROJECT ENGINEER		REV NUMBER	EXP DATE
JOSHUA H REYNOLDS		C08400	08/30/2008

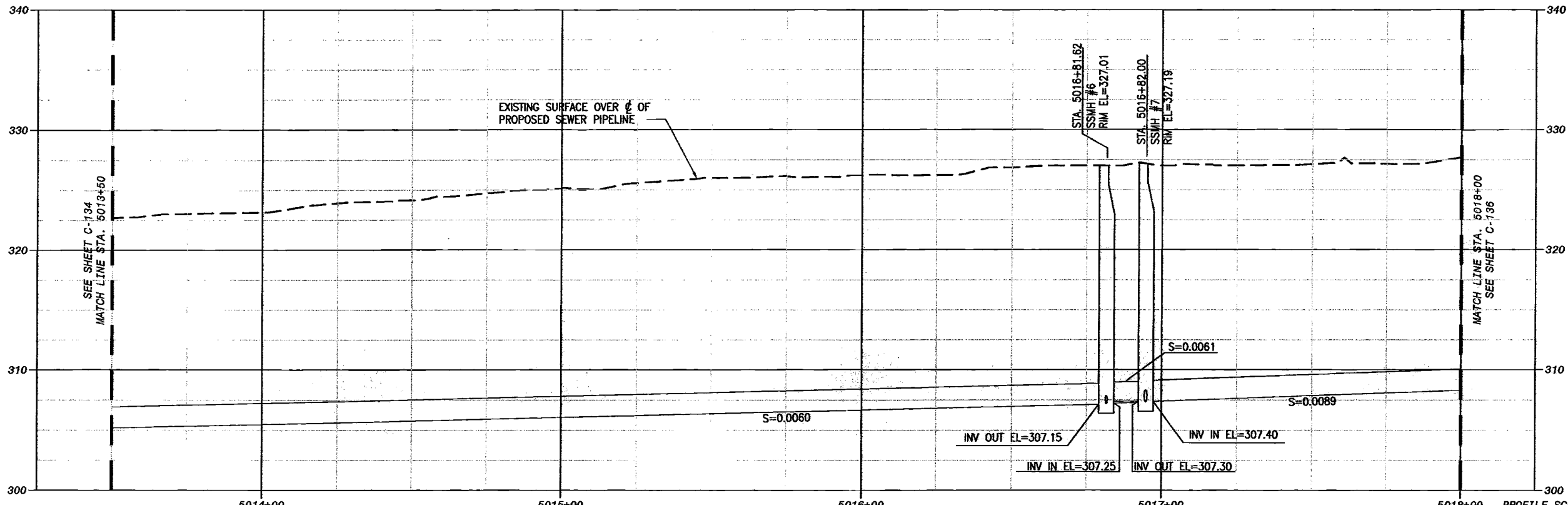




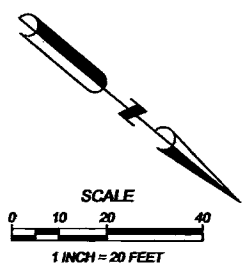
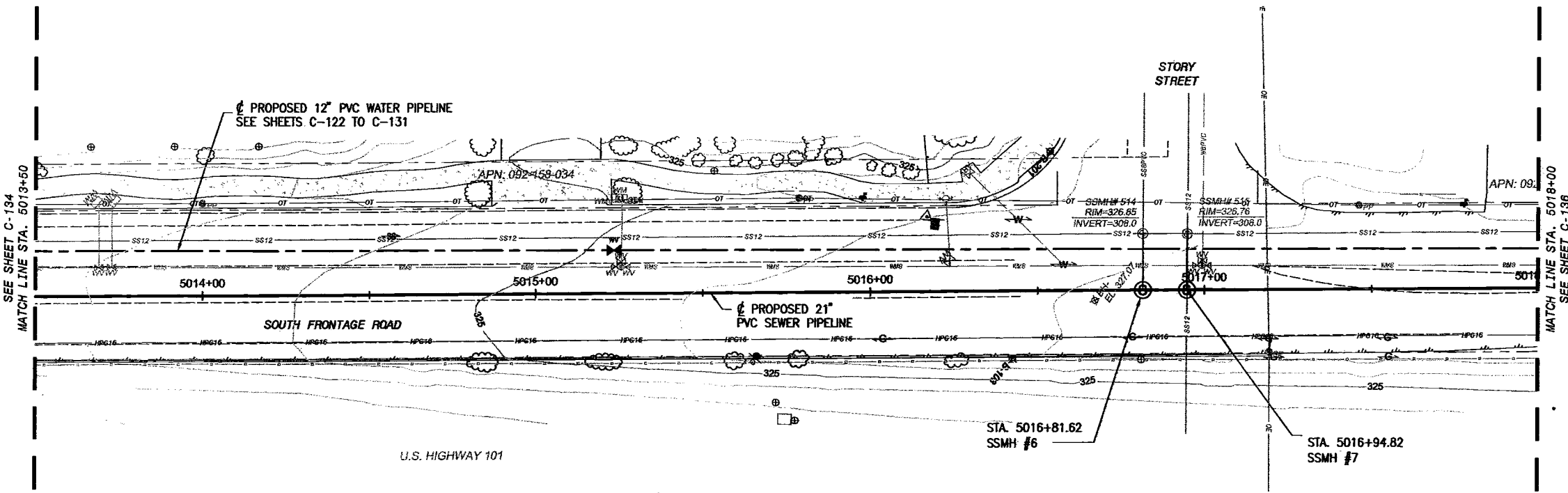




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 PLOTED BY: FRAELICHER, JIM DATE: 4/27/2009 - 2:22 PM  
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 WPCS: Nipomo Ippolito - Santa Maria Waterline-1.dwg WPCS: Nipomo Ippolito - Santa Maria Waterline-2.dwg



PROFILE SCALE  
 HORIZONTAL 1"=20'  
 VERTICAL 1"=5'

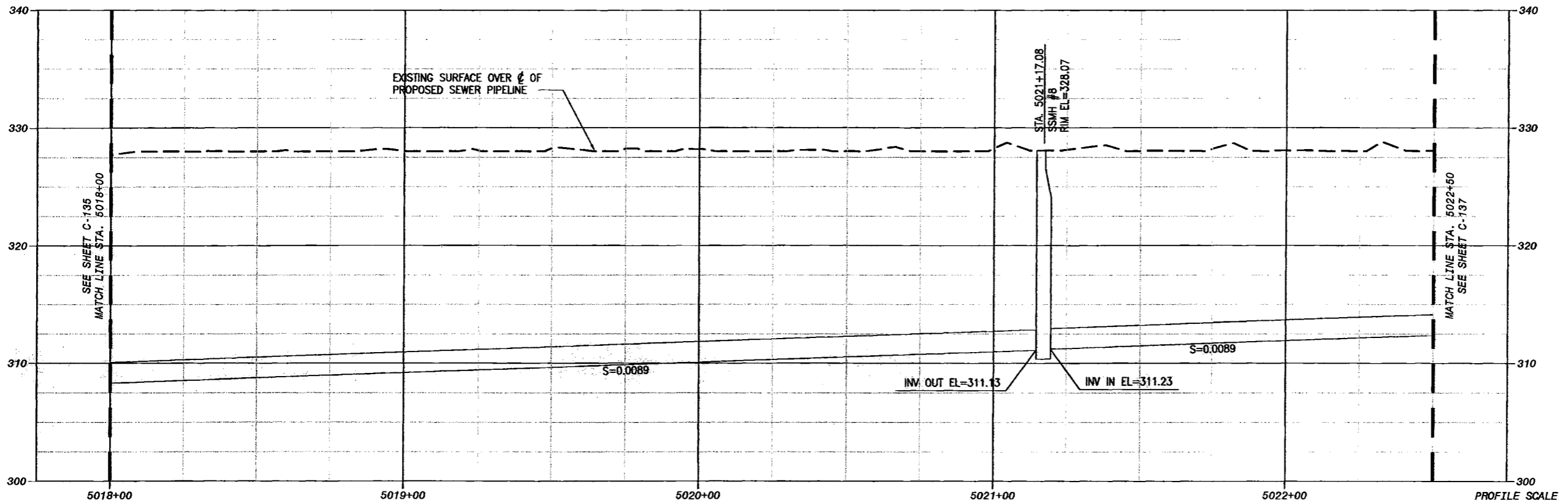


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 DATE: MARCH 31, 2009

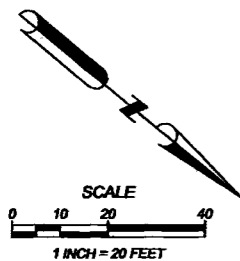
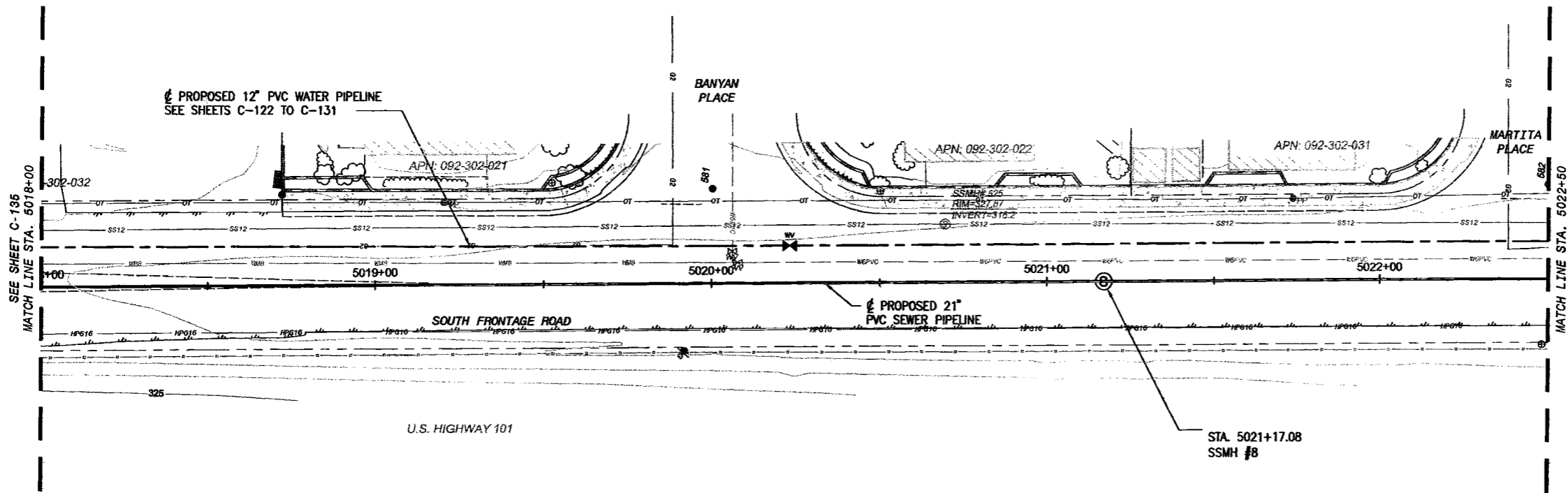
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 MEASURE 1" THEN DRAWING IS  
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<b>NIPOMO COMMUNITY SERVICES DISTRICT          WATERLINE INTERIM PROJECT - BP2          SOUTH FRONTAGE SEWER REPLACEMENT          PLAN AND PROFILE          STA 5013+50 to 5018+00</b>	
DESIGNED: JWR DETAILER: JFF CHECKED: APPROVED: DATE: MARCH 2009 AECOM PROJECT NO. 80081295.0001 NCSO PROJECT NO.	PROJECT ENGINEER JOSHUA H. REYNOLDS CB5400 09/30/2009
CADD STDS. BOYLE	<b>C-135</b> SHEET 37 OF 64

DWG: N:\Nipomo\_CSD\_180806\180806\_70\_McWorline\_Intertie\_Project\_Design\_Plans\CA\Nipomo\BP-2\MPOUO\_PIPELINE\BP-2\MPOUO\_PIPELINE\C-136 to C-138.dwg Layout Name: C-136 - Plotted by: Freidrich, Jim Date: 4/27/2009 - 2:22 PM  
 PLOTS: Nipomo - NCS-01-BP2 - Ex-Submittal - Waterbase - Surfaces - Sections 3-4-5 IMAGES: Nipomo Intertie - Santa Maria Waterline-1.dwg - Santa Maria Waterline-2.dwg

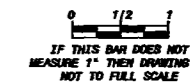


PROFILE SCALE  
 HORIZONTAL 1"=20'  
 VERTICAL 1"=5'



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REV	DATE	DESCRIPTION	APP'D
1			
2			
3			
4			

PROJECT ENGINEER: JOSHUA H. RETZELDS  
 DATE: 09/30/2009  
 AECOM USA, Inc.  
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 San Luis Obispo, California 93401  
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**NIPOMO COMMUNITY SERVICES DISTRICT**  
**WATERLINE INTERTIE PROJECT - BP2**  
**SOUTH FRONTAGE SEWER REPLACEMENT**  
**PLAN AND PROFILE**  
**STA 5018+00 to 5022+50**

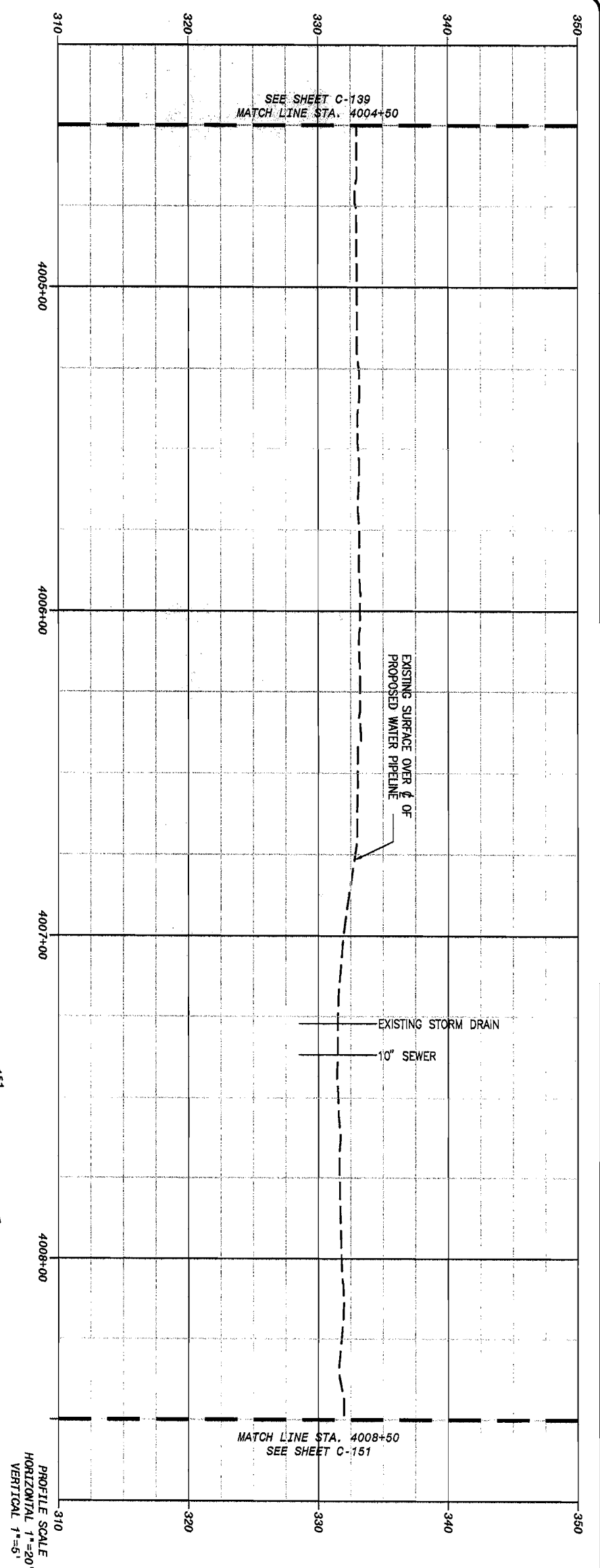
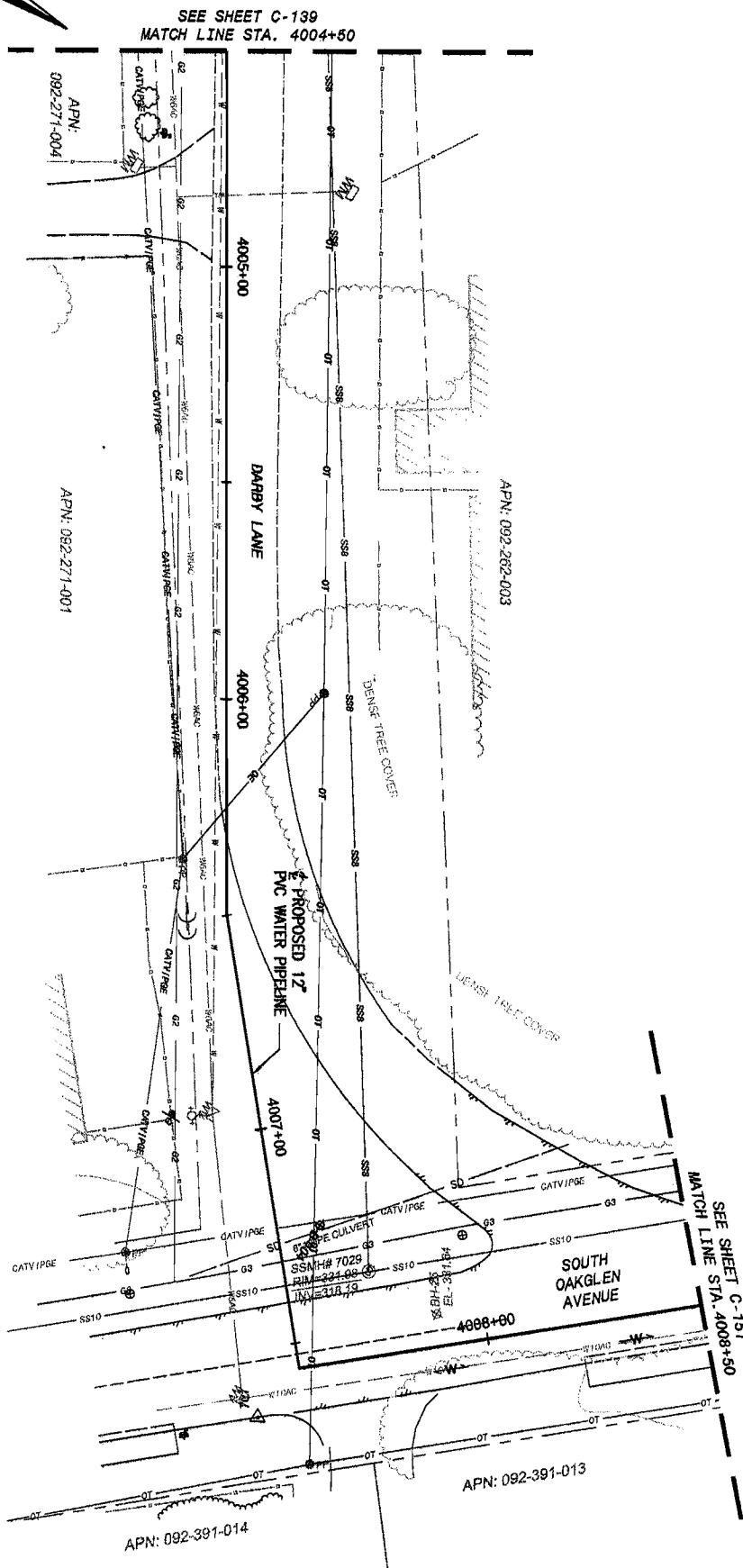
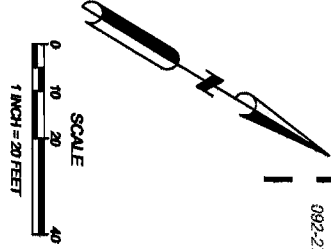
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 DETAILED: JWF  
 CHECKED:  
 APPROVED:  
 DATE: MARCH 2009  
 AECOM PROJECT NO.  
 60061258.0001  
 NCSO PROJECT NO.

CADD STDS.  
 BOYLE  
**C-136**  
 SHEET  
 38 OF 64









PROFILE SCALE  
 HORIZONTAL 1"=20'  
 VERTICAL 1"=5'

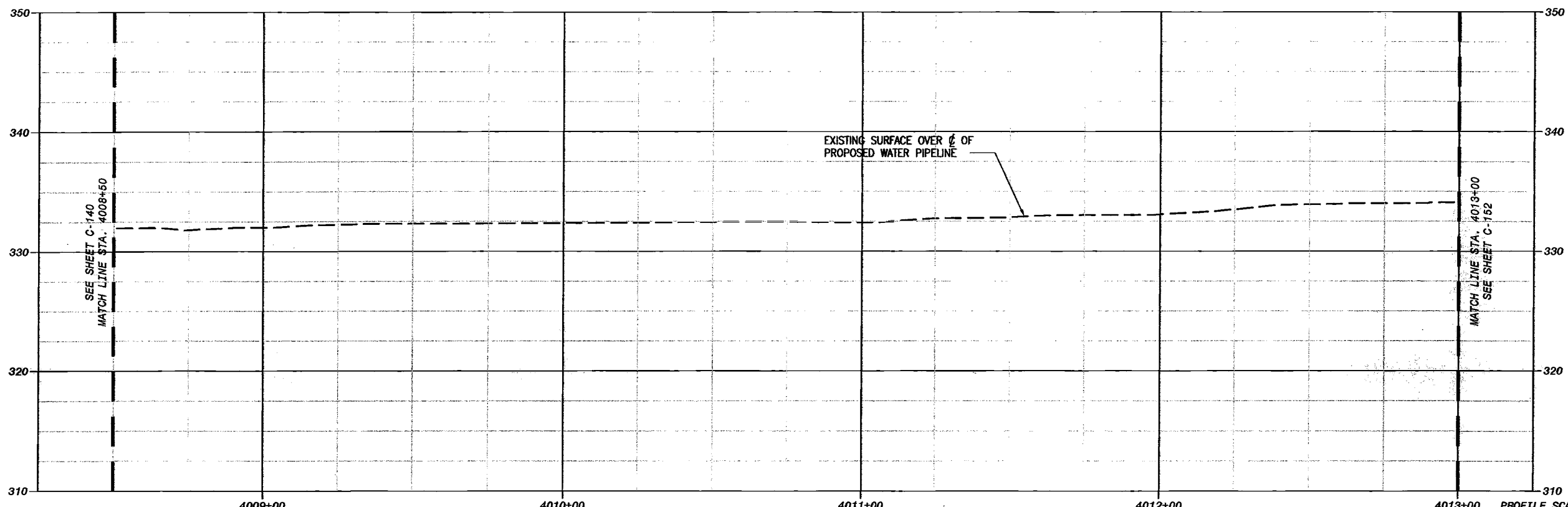
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 NOT TO BE USED FOR CONSTRUCTION  
 DATE: MARCH 31, 2009



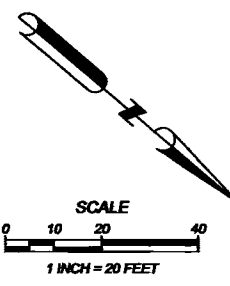
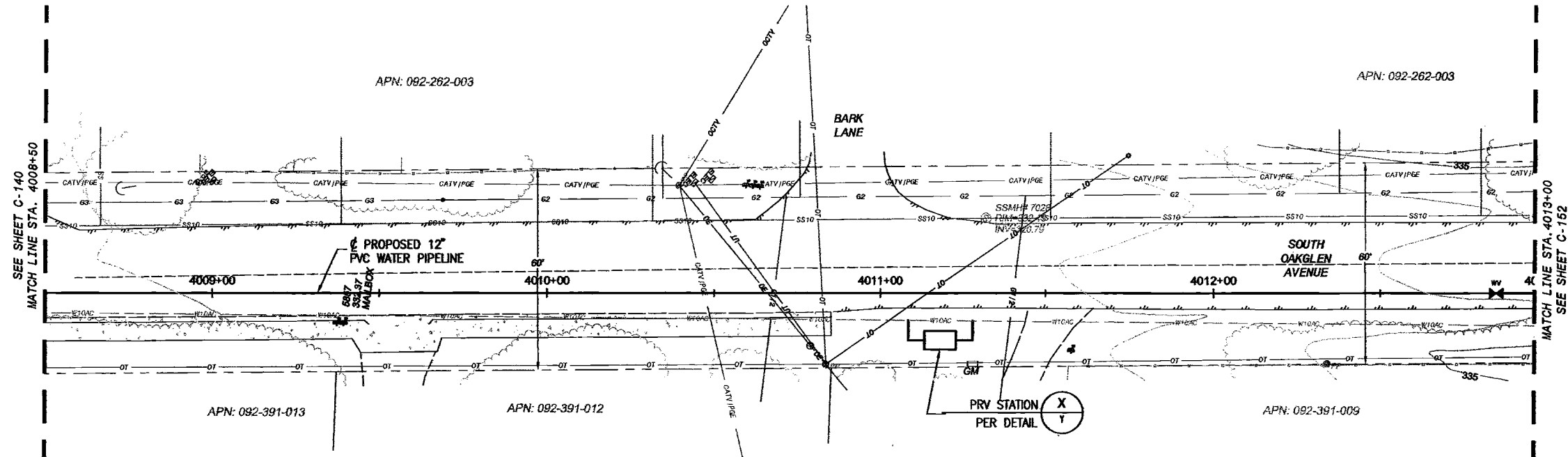
<b>C-140</b> SHEET 42 OF 64	<b>NIPOMO COMMUNITY SERVICES DISTRICT</b> <b>WATERLINE INTERTIE PROJECT - BP2</b>  <b>DARBY LANE</b> <b>PLAN AND PROFILE</b> <b>STA 4004+50 TO 4008+50</b>	<b>AECOM</b> <small>AECOM USA, Inc.          1194 Pacific Street, Suite 204          San Luis Obispo, California 93401          T 805.542.9840 F 805.542.9990</small>	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>REV</th> <th>DATE</th> <th>DESCRIPTION</th> <th>APPR</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table> <table border="1" style="width: 100%; border-collapse: collapse; margin-top: 5px;"> <thead> <tr> <th>PROJECT ENGINEER</th> <th>REG NUMBER</th> <th>EXP DATE</th> </tr> </thead> <tbody> <tr> <td>JOSHUA H REYNOLDS</td> <td>C65400</td> <td>09/30/2009</td> </tr> </tbody> </table>	REV	DATE	DESCRIPTION	APPR													PROJECT ENGINEER	REG NUMBER	EXP DATE	JOSHUA H REYNOLDS	C65400	09/30/2009
REV	DATE	DESCRIPTION	APPR																						
PROJECT ENGINEER	REG NUMBER	EXP DATE																							
JOSHUA H REYNOLDS	C65400	09/30/2009																							



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 AREFS: NCS0-B0\_BP2 - Auto points - Not used - Surface - Stationing - 1+5 - Existing



PROFILE SCALE  
 HORIZONTAL 1"=20'  
 VERTICAL 1"=5'

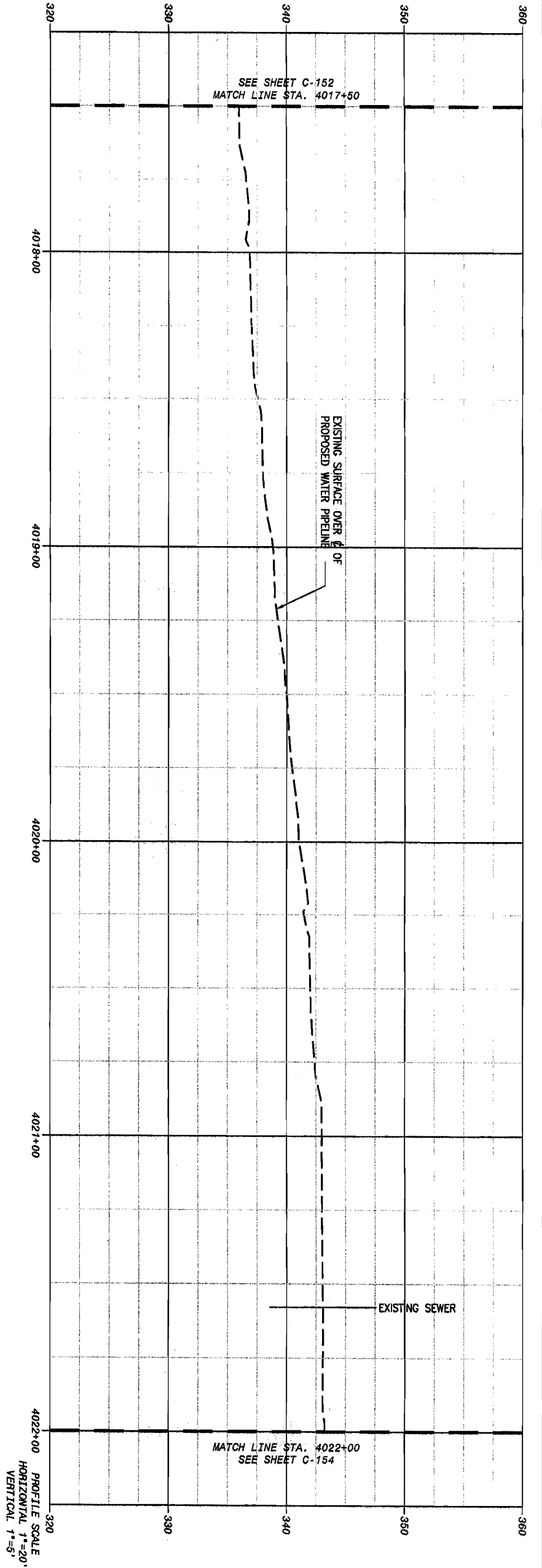
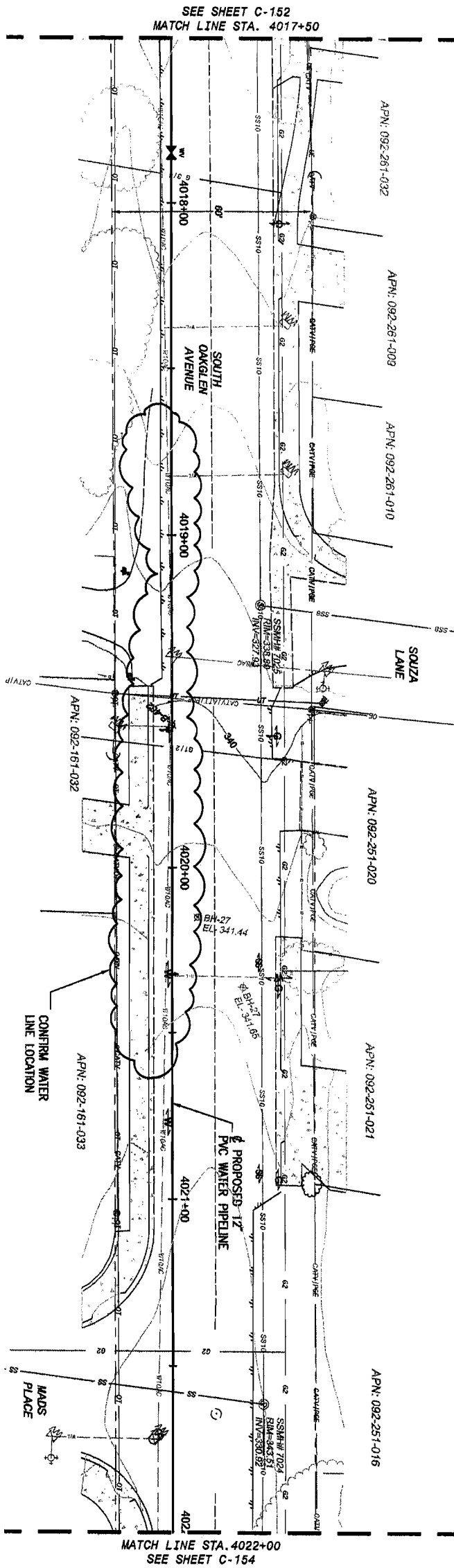
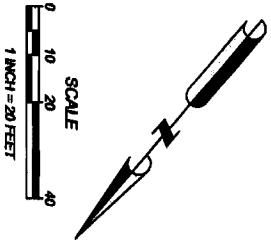


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 DATE: MARCH 31, 2009

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<b>AECOM</b>	
AECOM USA, Inc. 1184 Pacific Street, Suite 204 Torrance, CA 90501 T 800.543.8880 F 800.423.8890 www.aecom.com	PROJECT ENGINEER JOSHUA H. REYNOLDS C65400
<b>NIPOMO COMMUNITY SERVICES DISTRICT          WATERLINE INTERLINE PROJECT - BP2</b>	
<b>SOUTH OAKGLEN AVENUE          PLAN AND PROFILE          STA 4008+50 TO 4013+00</b>	
DESIGNED: JPH DETAILED: JPH CHECKED: APPROVED:	DATE: MARCH 2009 AECOM PROJECT NO. 00081295.0001 NCS0 PROJECT NO.
CAD STDS. BOYLE	<b>C-151</b> SHEET 43 OF 64





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 DATE: MARCH 31, 2009

IF THIS DRAWING IS NOT  
 REFERENCED TO FULL SCALE

DESIGNER: JHM
DRAWN: JHM
CHECKED: JHM
DATE: MARCH 2009
AECOM PROJECT NO. 06047266-0001
NCSO PROJECT NO.
CADD STDS.
DATE: MARCH 31, 2009

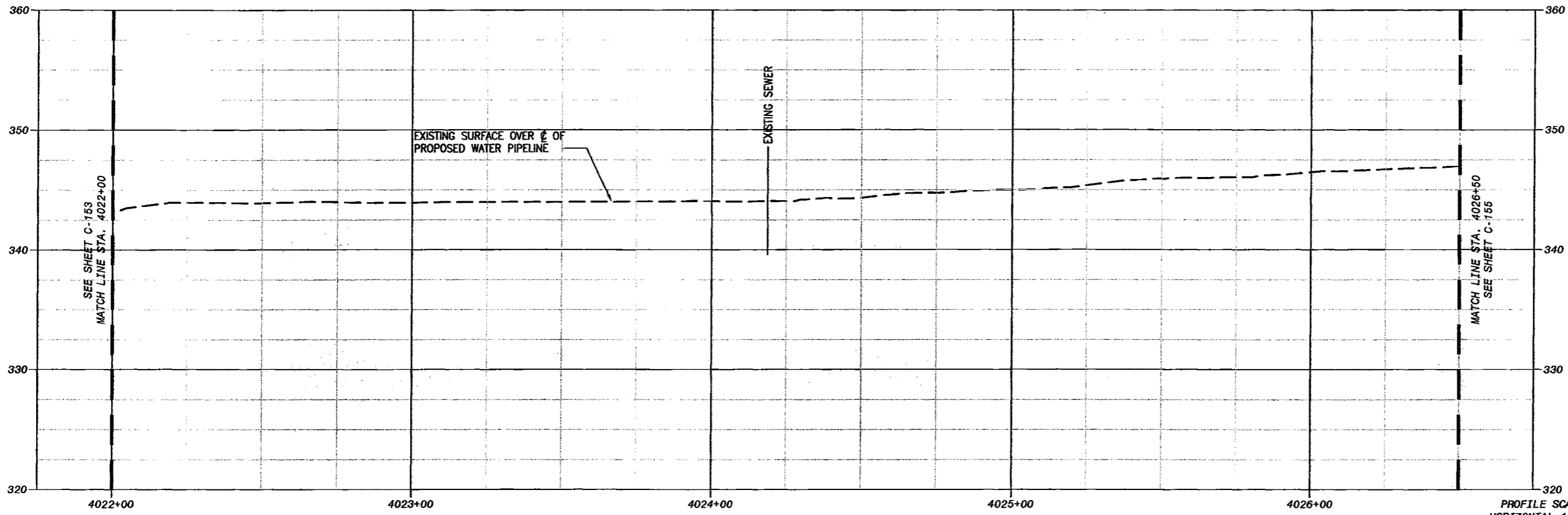
**NIPOMO COMMUNITY SERVICES DISTRICT  
 WATERLINE INTERTIE PROJECT - BP2**  
**SOUTH OAKGLEN AVENUE  
 PLAN AND PROFILE  
 STA 4017+50 TO 4022+00**



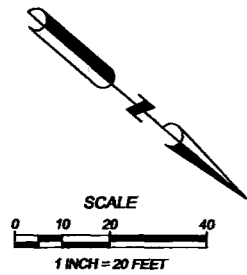
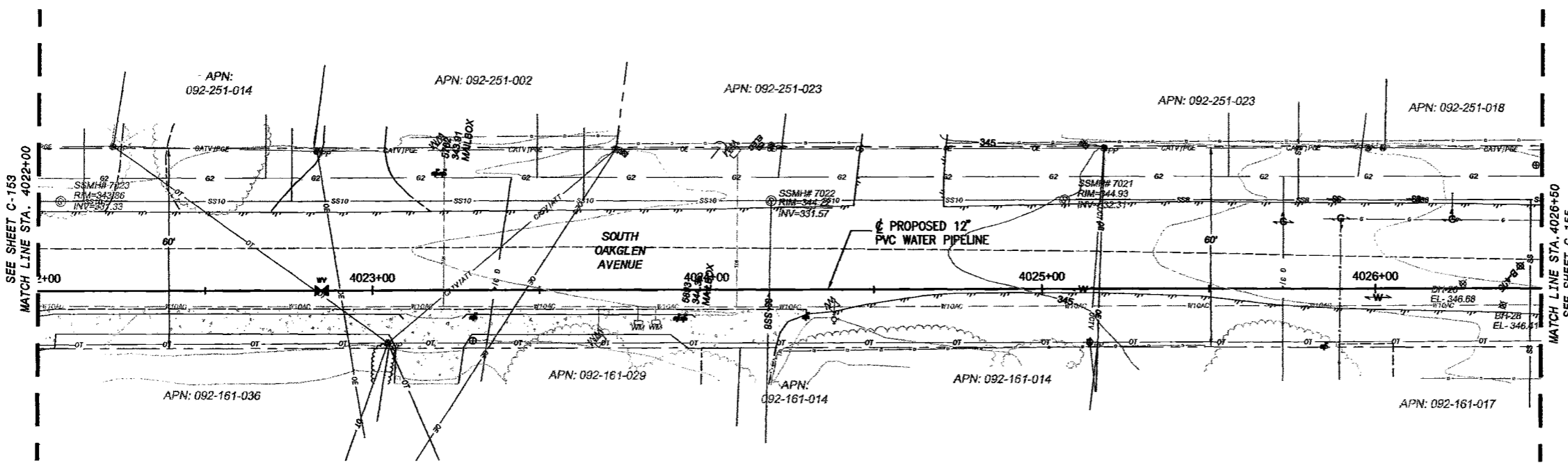
**AECOM**  
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 San Luis Obispo, California 93401  
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REV	DATE	DESCRIPTION	APPR
PROJECT ENGINEER		REG NUMBER	EXP DATE
JOSHUA H REYNOLDS		C65400	09/30/2009

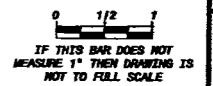
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 IMAGES: Nipomo Logo.jpg - Santa Maria Waterline-1.dwg - Santa Maria Waterline-2.dwg



PROFILE SCALE  
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 VERTICAL 1"=5'

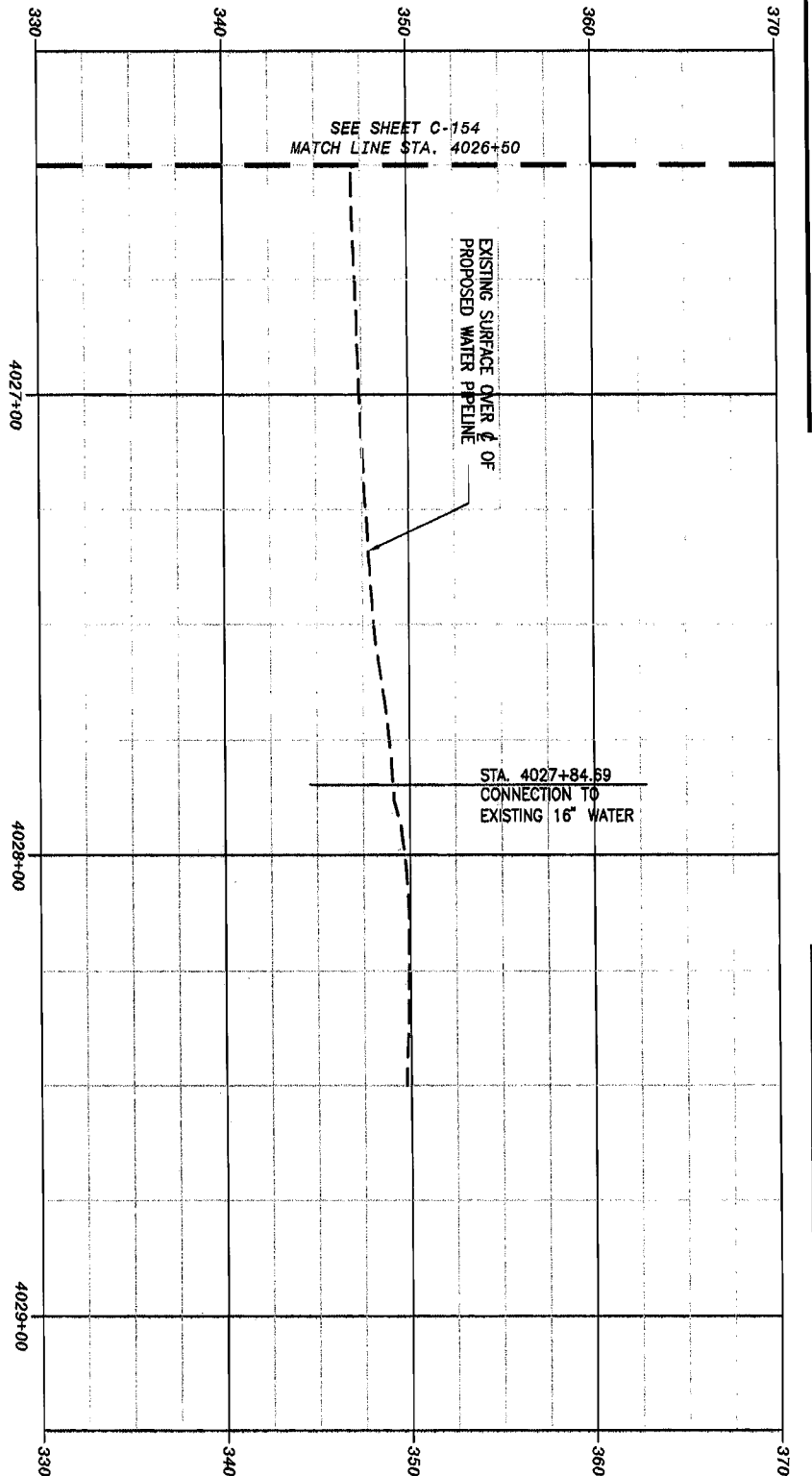
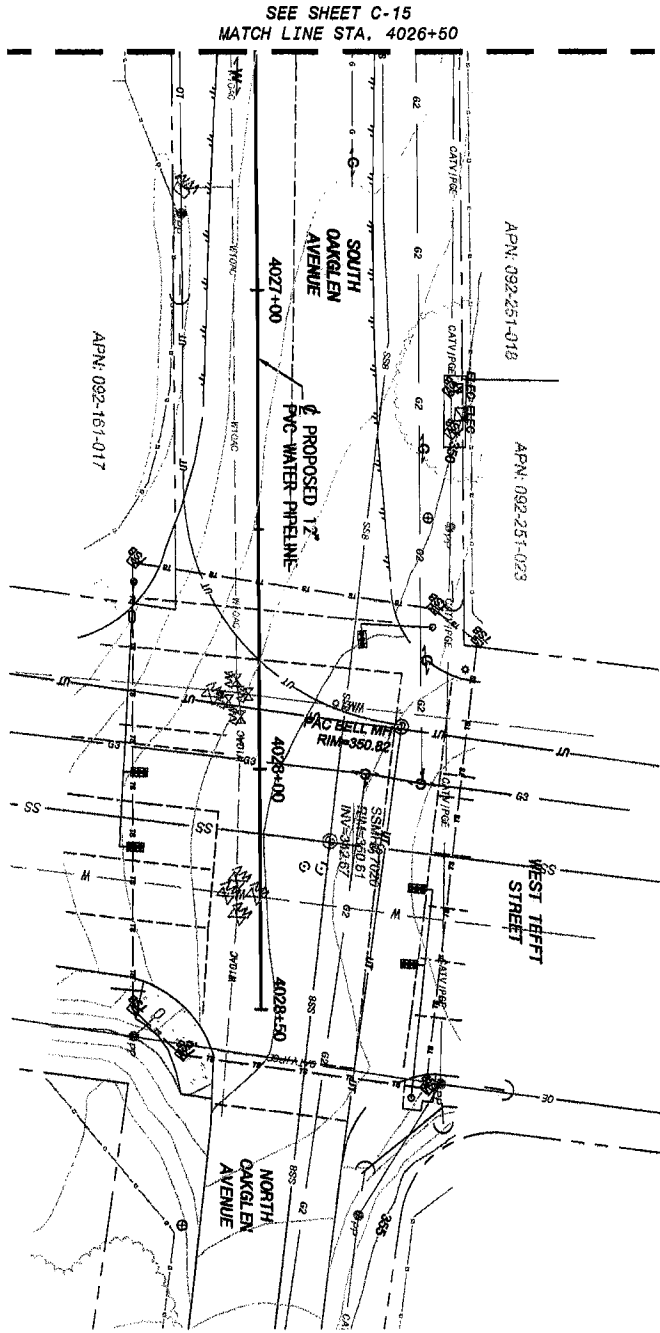
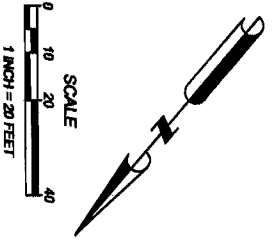


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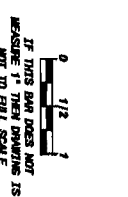
Copy of document found at [www.NoNewWipTax.com](http://www.NoNewWipTax.com)

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<b>NIPOMO COMMUNITY SERVICES DISTRICT          WATERLINE INTERTIE PROJECT - BP2</b> <b>SOUTH OAKGLEN AVENUE          PLAN AND PROFILE          STA 4022+00 to 4026+50</b>	
DESIGNED: JMR DETAILED: JPF CHECKED: APPROVED: DATE: MARCH 2009 AECOM PROJECT NO. 00061295.0001 NCS D PROJECT NO.	CADD STDS. BOYLE <b>C-154</b> SHEET 46 OF 64
PROJECT NUMBER CS15400	DATE 03/30/2009



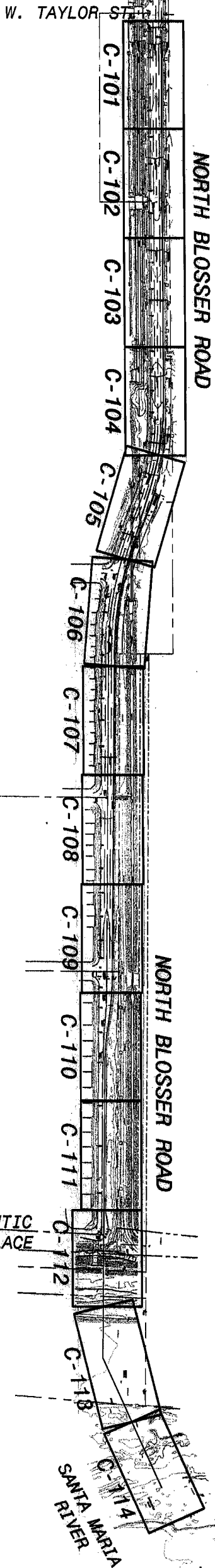
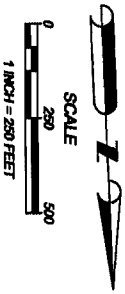
PROFILE SCALE  
 HORIZONTAL 1"=20'  
 VERTICAL 1"=5'

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 DATE: MARCH 31, 2009



<b>NIPOMO COMMUNITY SERVICES DISTRICT          WATERLINE INTERTIE PROJECT - BP2</b>  <b>SOUTH OAKGLEN AVENUE          PLAN AND PROFILE          STA 4026+50 to 4029+00</b>		<b>AECOM</b>  <small>AECOM USA, Inc.          1194 Pacific Street, Suite 204          San Luis Obispo, California 93401          T 805.542.8840 F 805.542.9990</small>	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>REV</th> <th>DATE</th> <th>DESCRIPTION</th> <th>APPR</th> </tr> </thead> <tbody> <tr> <td>PROJECT ENGINEER</td> <td></td> <td>REV NUMBER</td> <td>EXR DATE</td> </tr> <tr> <td>JOSHUA H REYNOLDS</td> <td></td> <td>C85400</td> <td>06/30/2009</td> </tr> </tbody> </table>	REV	DATE	DESCRIPTION	APPR	PROJECT ENGINEER		REV NUMBER	EXR DATE	JOSHUA H REYNOLDS		C85400	06/30/2009
REV	DATE	DESCRIPTION	APPR												
PROJECT ENGINEER		REV NUMBER	EXR DATE												
JOSHUA H REYNOLDS		C85400	06/30/2009												





SHEET INDEX  
SCALE: 1" = 250'

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DATE: MARCH 31, 2009

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**NIPOMO COMMUNITY SERVICES DISTRICT  
WATERLINE INTERTIE PROJECT - BP3**

**GENERAL NOTES**

**AECOM**



REV	DATE	DESCRIPTION	APPR
PROJECT ENGINEER		REV NUMBER	EXP DATE
JOSHUA H. REYNOLDS		C85400	09-30-2009

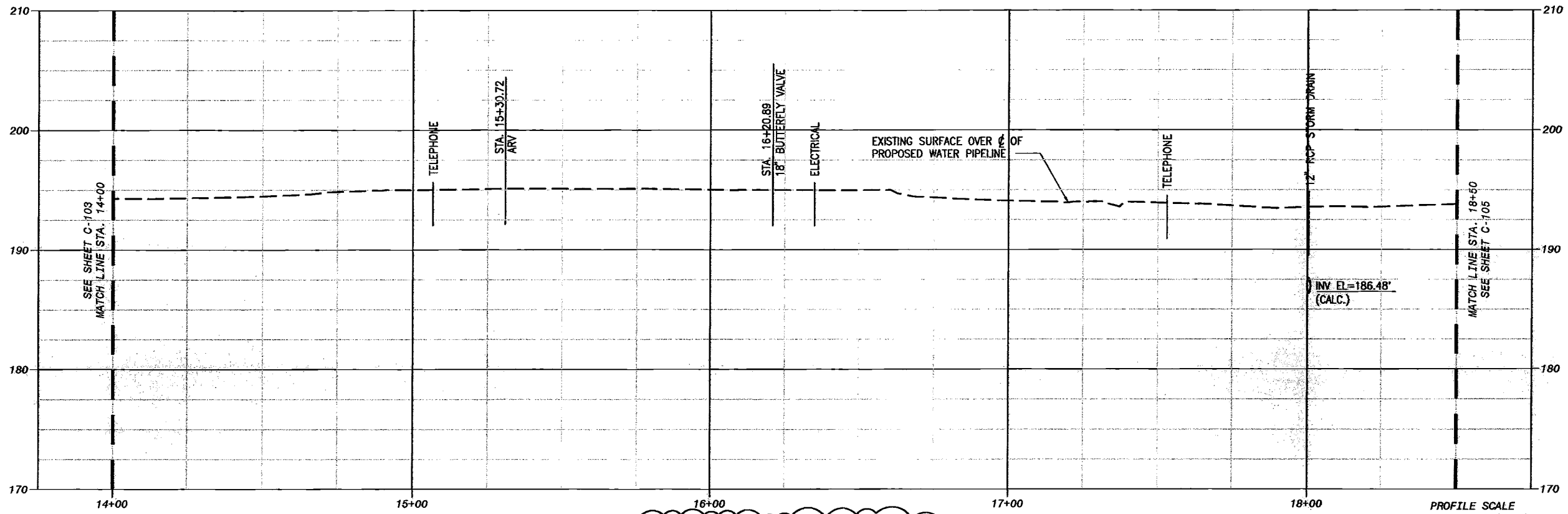






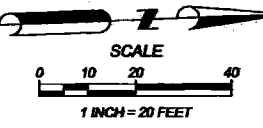
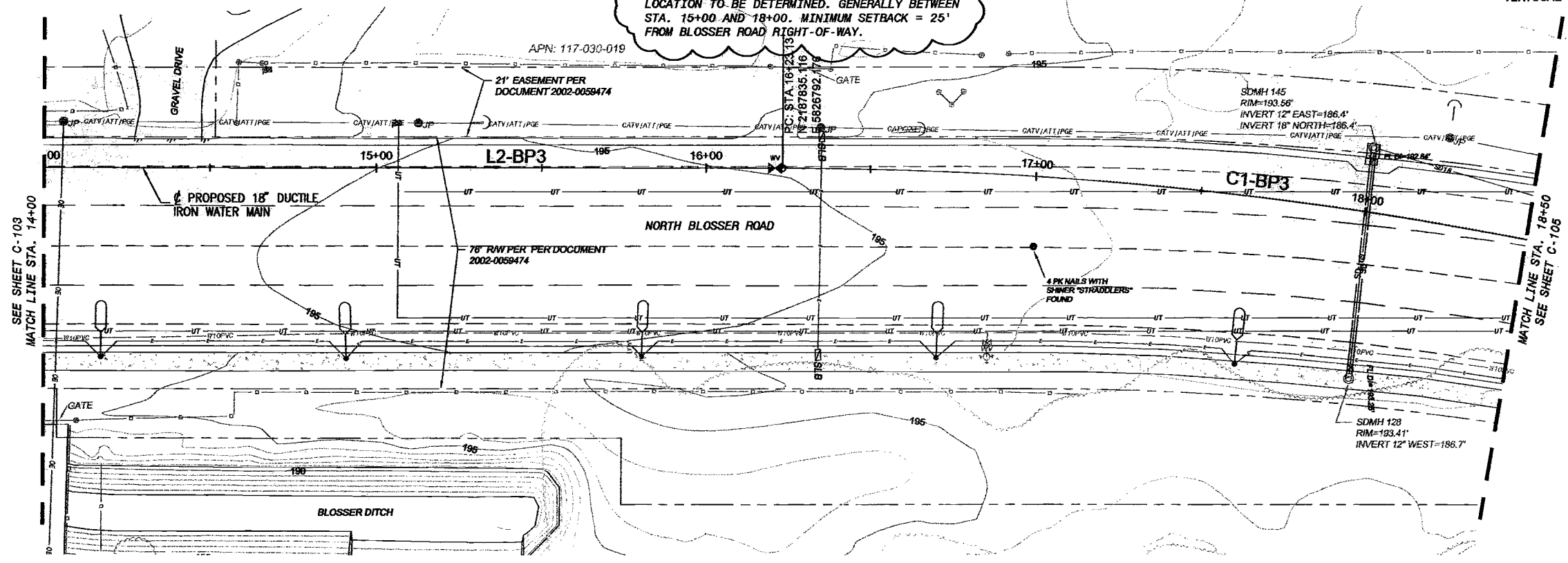


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 DATE: 4/21/2009 2:05 PM  
 PLOTTED BY: Fraefelcher, Jim



PROFILE SCALE  
 HORIZONTAL 1"=20'  
 VERTICAL 1"=5'

FLOW METER STATION - SEE DRAWING C-401  
 LOCATION TO BE DETERMINED. GENERALLY BETWEEN  
 STA. 15+00 AND 18+00. MINIMUM SETBACK = 25'  
 FROM BLOSSER ROAD RIGHT-OF-WAY.



**Line Table: Blosser Road**

Line #	Length	Direction
L2-BP3	1506.93'	N2° 07' 21.93"E

**Curve Table: Blosser Road**

Curve #	Radius	Length	External Tangent	Delta
C1-BP3	1193.50'	361.95'	182.38'	17.376°



Know what's below.  
 Call before you dig.

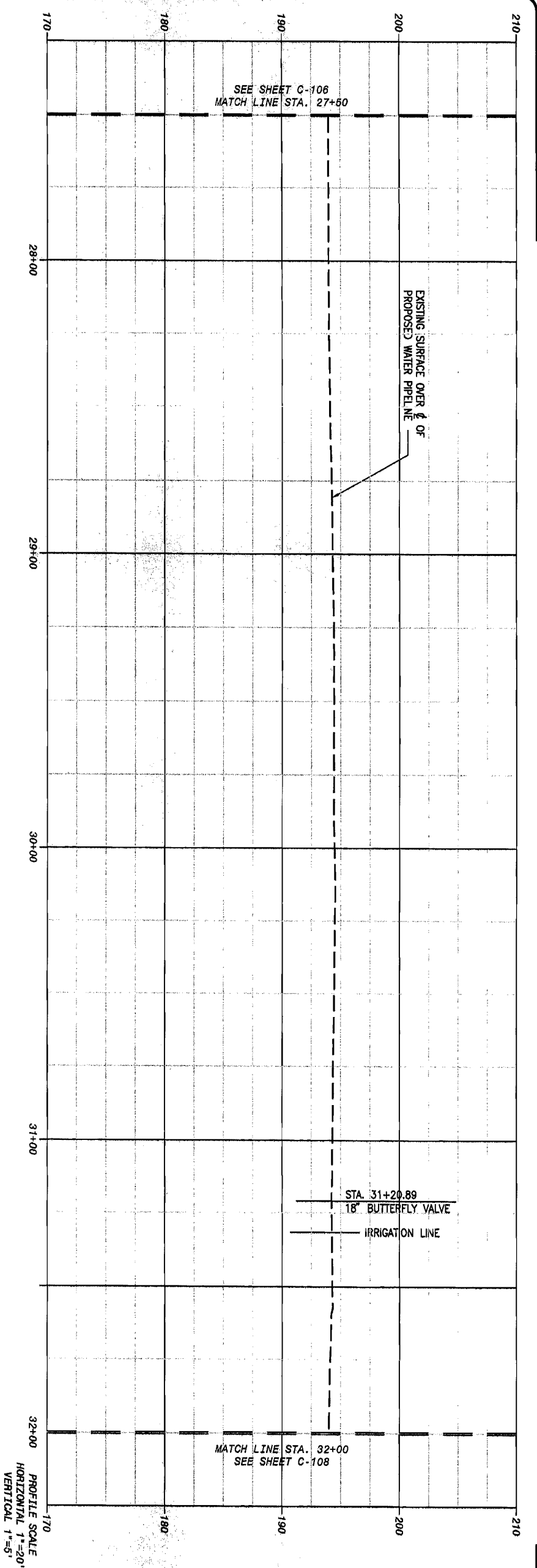
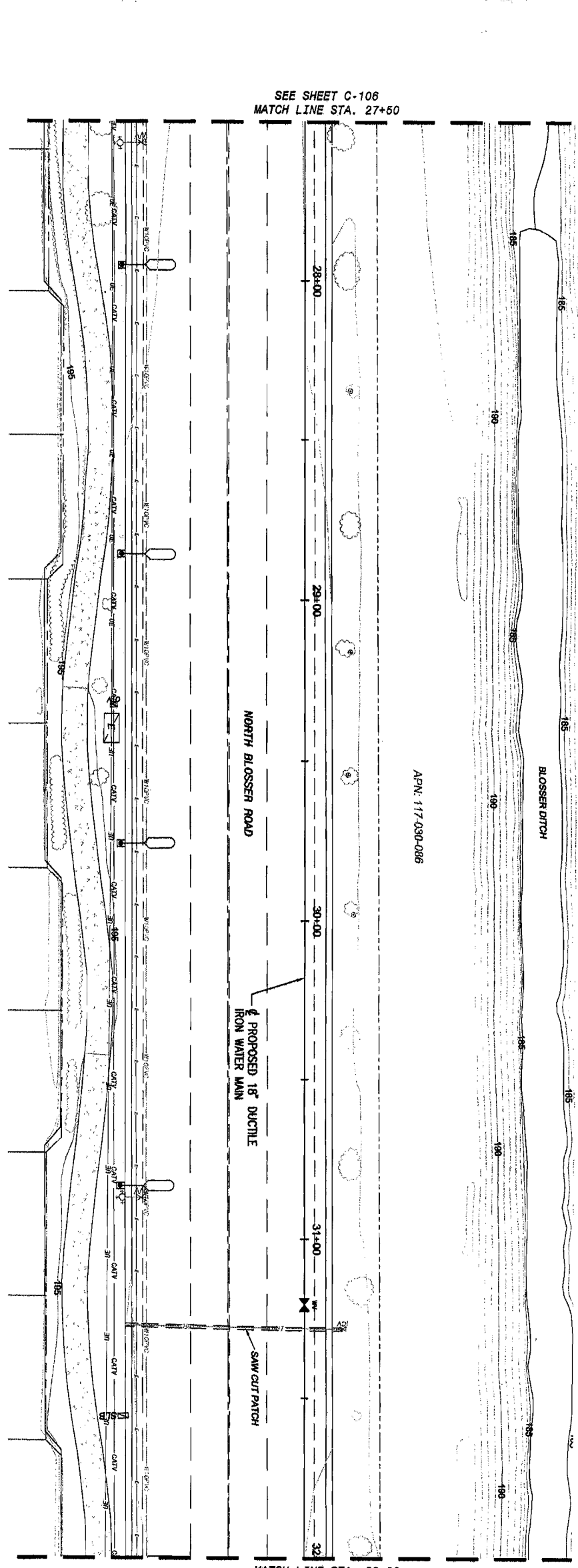
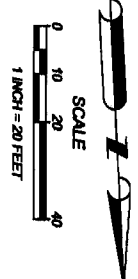
AECOM WATER  
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 DATE: MARCH 31, 2009

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<b>NIPOMO COMMUNITY SERVICES DISTRICT          WATERLINE INTERLINE PROJECT - BP3</b> <b>PLAN AND PROFILE          STA. 14+00 to STA. 18+50</b>	CADD STDS. BOYLE <b>C-104</b> SHEET 8 OF 22
<b>AECOM</b> <small>APR          DATE          PROJECT NUMBER          JOSHUA H. REYNOLDS          C66-400          09/30/2009</small>	







SEE SHEET C-106  
MATCH LINE STA. 27+50

SEE SHEET C-106  
MATCH LINE STA. 27+50

MATCH LINE STA. 32+00  
SEE SHEET C-108

MATCH LINE STA. 32+00  
SEE SHEET C-108

PROFILE SCALE  
HORIZONTAL 1"=20'  
VERTICAL 1"=5'

STA. 31+20.89  
18" BUTTERFLY VALVE  
IRRIGATION LINE

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CALL 811 TO FIND OUT

**NIPOMO COMMUNITY SERVICES DISTRICT  
WATERLINE INTERLIE PROJECT - BP3**

PLAN AND PROFILE  
STA. 27+50 to STA. 32+00

DESIGNED BY	DATE: MARCH 2009
CHECKED BY	AECOM PROJECT NO.
APPROVED BY	00001996 0001
DATE: MARCH 2009	00001996 0001
PROJECT NO.	
CAD STYS.	
DATE:	
SHEET	
9 OF 22	

**AECOM**

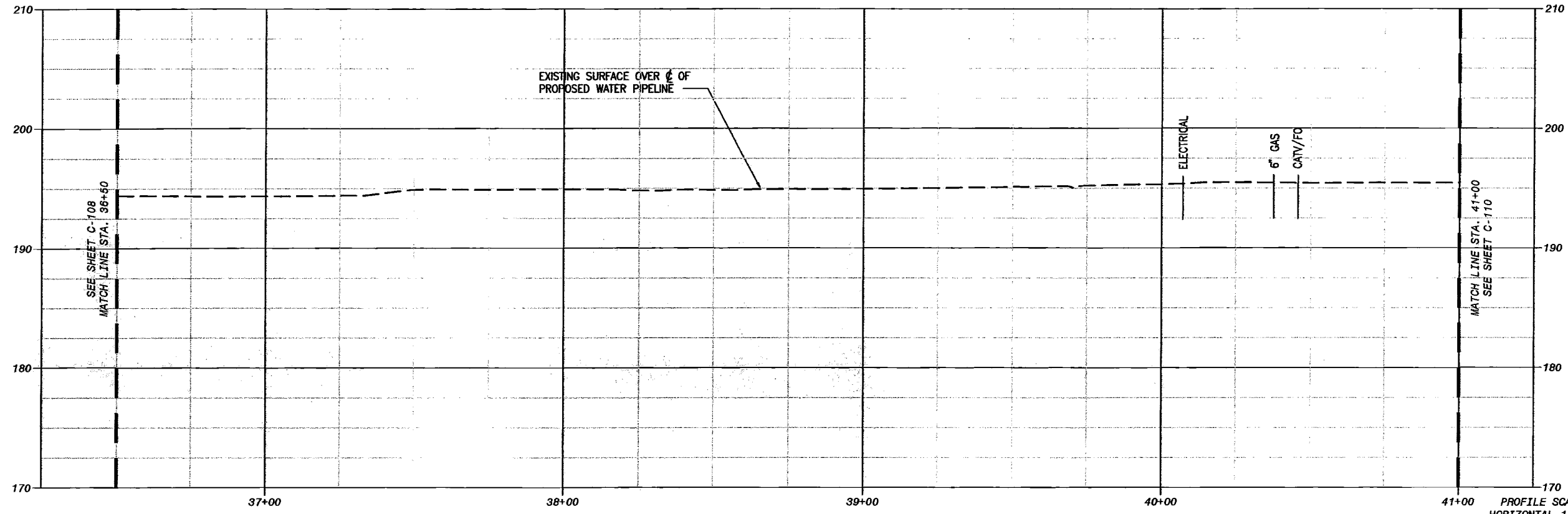
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REV	DATE	DESCRIPTION	APPR

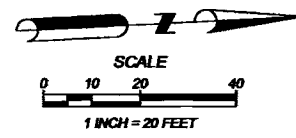
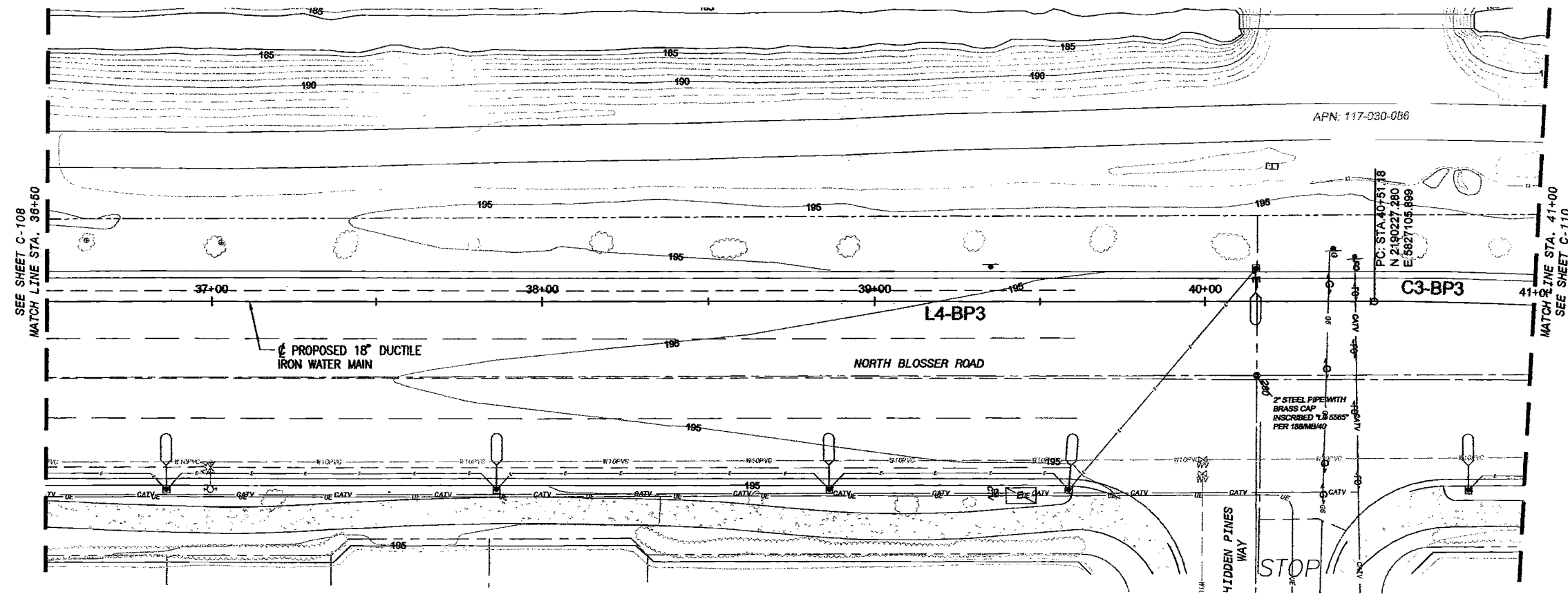
PROJECT ENGINEER: JOSHUA H REYNOLDS  
 REVISION NUMBER: C85400  
 EXP. DATE: 09/30/2009



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 Date: 4/21/2009 2:10 PM  
 Plot by: Freilicher, Jim  
 Project Name: C-109  
 Project Description: Nipomo CSD - Waterline - Blosser Road  
 Project Number: 00081295.0001  
 Project Date: 03/31/2009



PROFILE SCALE  
 HORIZONTAL 1"=20'  
 VERTICAL 1"=5'




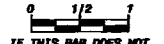
**Line Table: Blosser Road**

Line #	Length	Direction
L4-BP3	1364.82'	N2° 50' 13.86"E

**Curve Table: Blosser Road**

Curve #	Radius	Length	External Tangent	Delta
C3-BP3	1057.07'	166.54'	83.44	9.027

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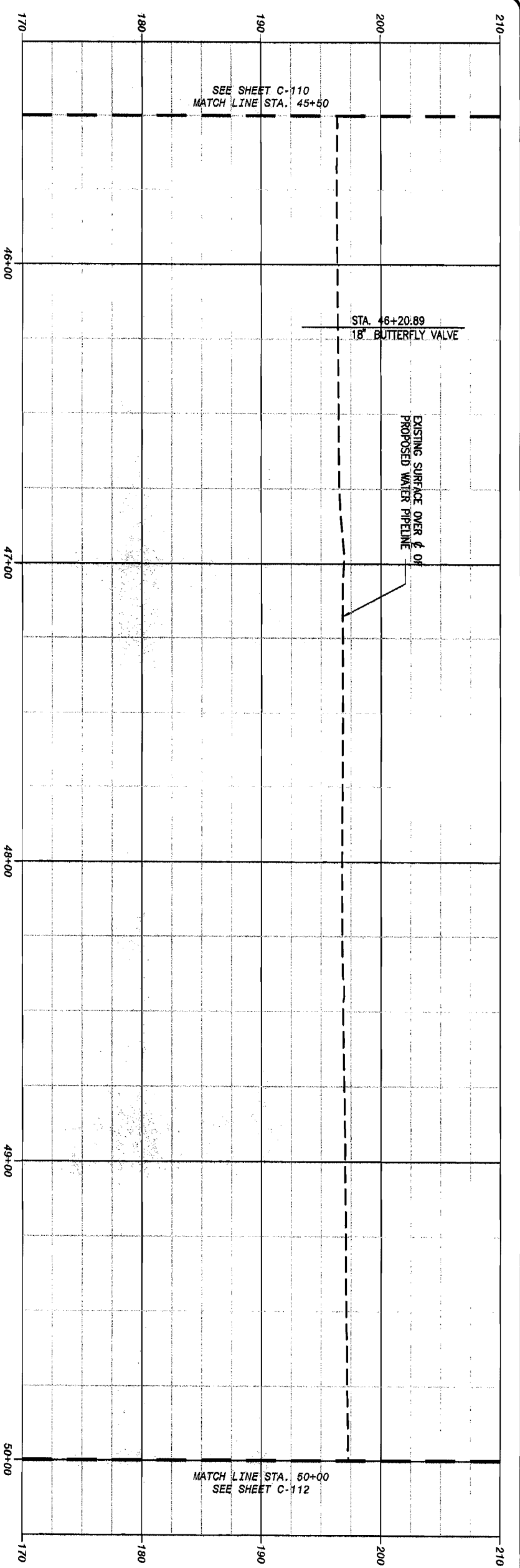
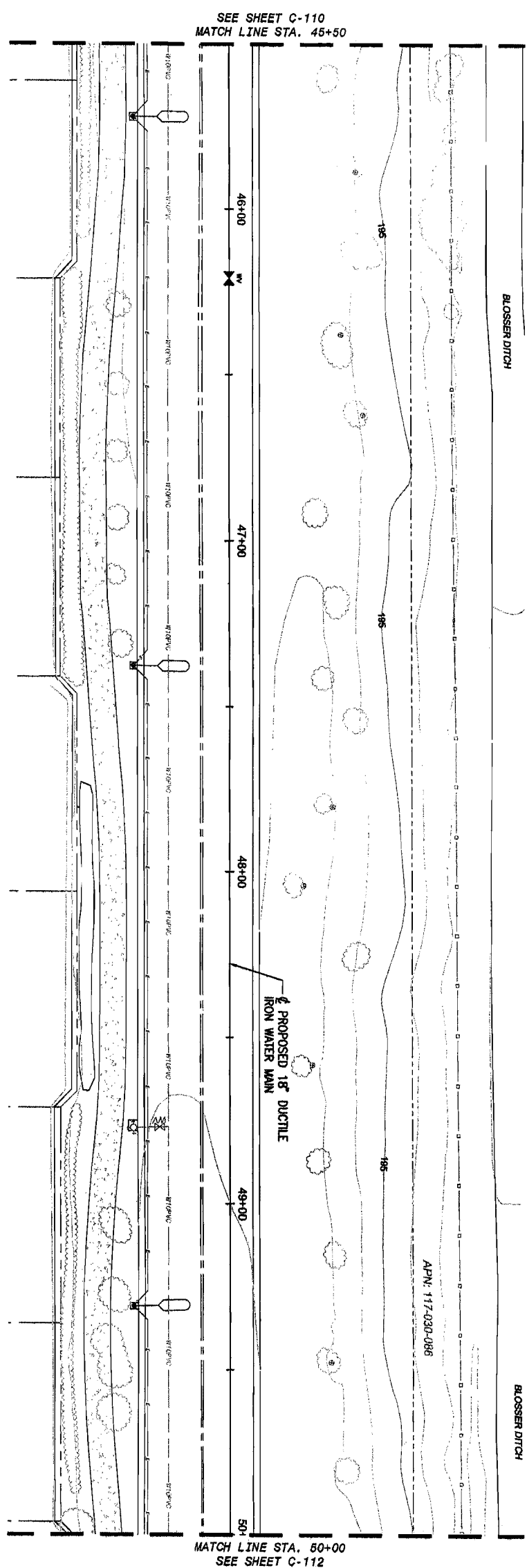
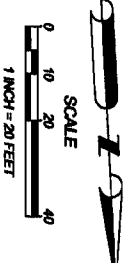
**NIPOMO COMMUNITY SERVICES DISTRICT  
 WATERLINE INTERIM PROJECT - BP3**  
**PLAN AND PROFILE  
 STA. 36+50 to STA. 41+00**

DESIGNED: ES	DATE: MARCH 2009
DETAILED: JMF	AECOM PROJECT NO. 00081295.0001
CHECKED:	NCSO PROJECT NO.
APPROVED:	CADD STDS. BOYLE
<b>C-109</b>	
<b>SHEET 11 OF 22</b>	

PROJECT ENGINEER: JOSHUA H. REYNOLDS  
 REF NUMBER: C65-000  
 APPR DATE: 09/30/2009







PROFILE SCALE  
 HORIZONTAL 1"=20'  
 VERTICAL 1"=5'

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 DATE: MARCH 31, 2009

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**NIPOMO COMMUNITY SERVICES DISTRICT  
 WATERLINE INTERLIE PROJECT - BP3**

**PLAN AND PROFILE  
 STA. 45+50 to STA. 50+00**



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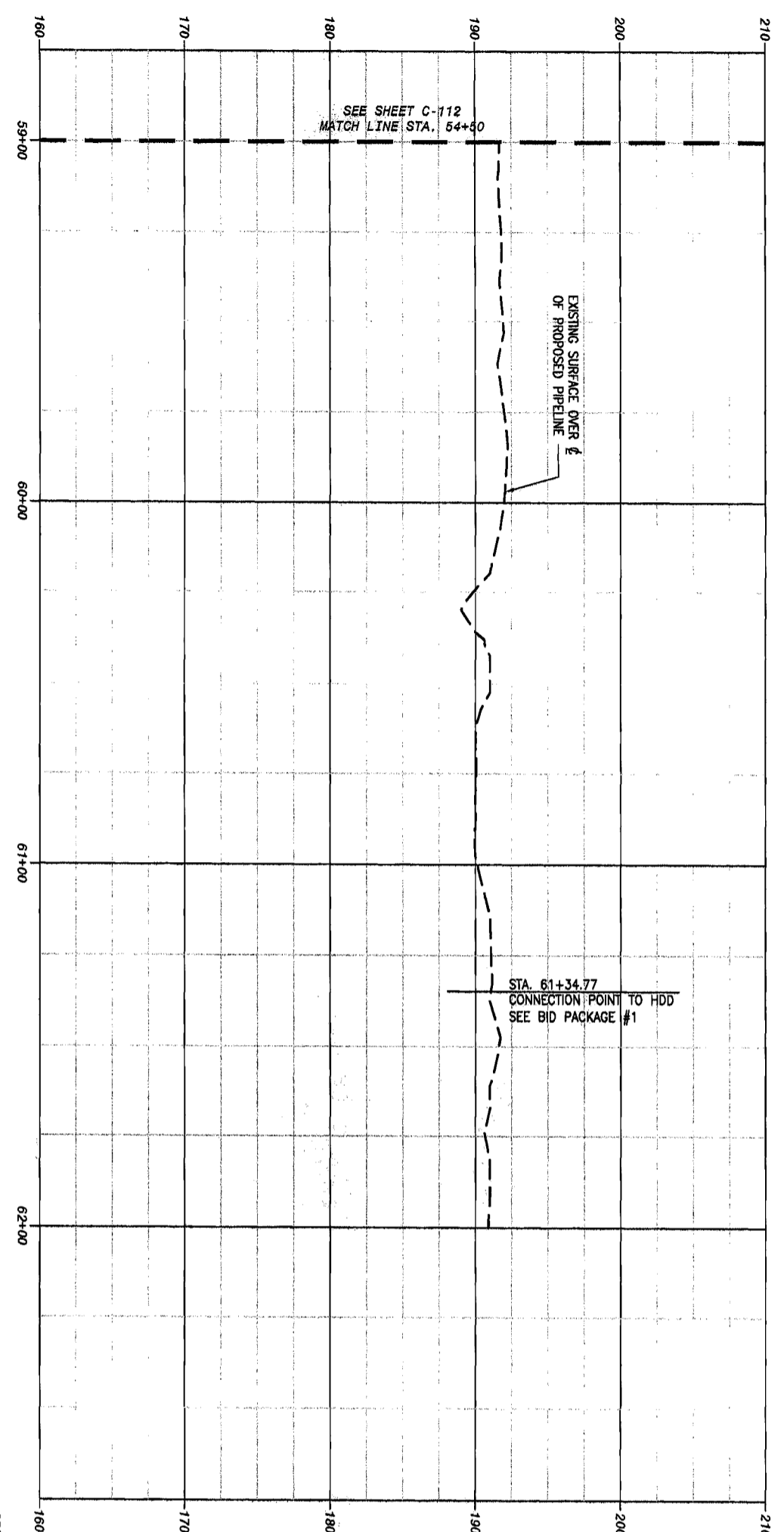
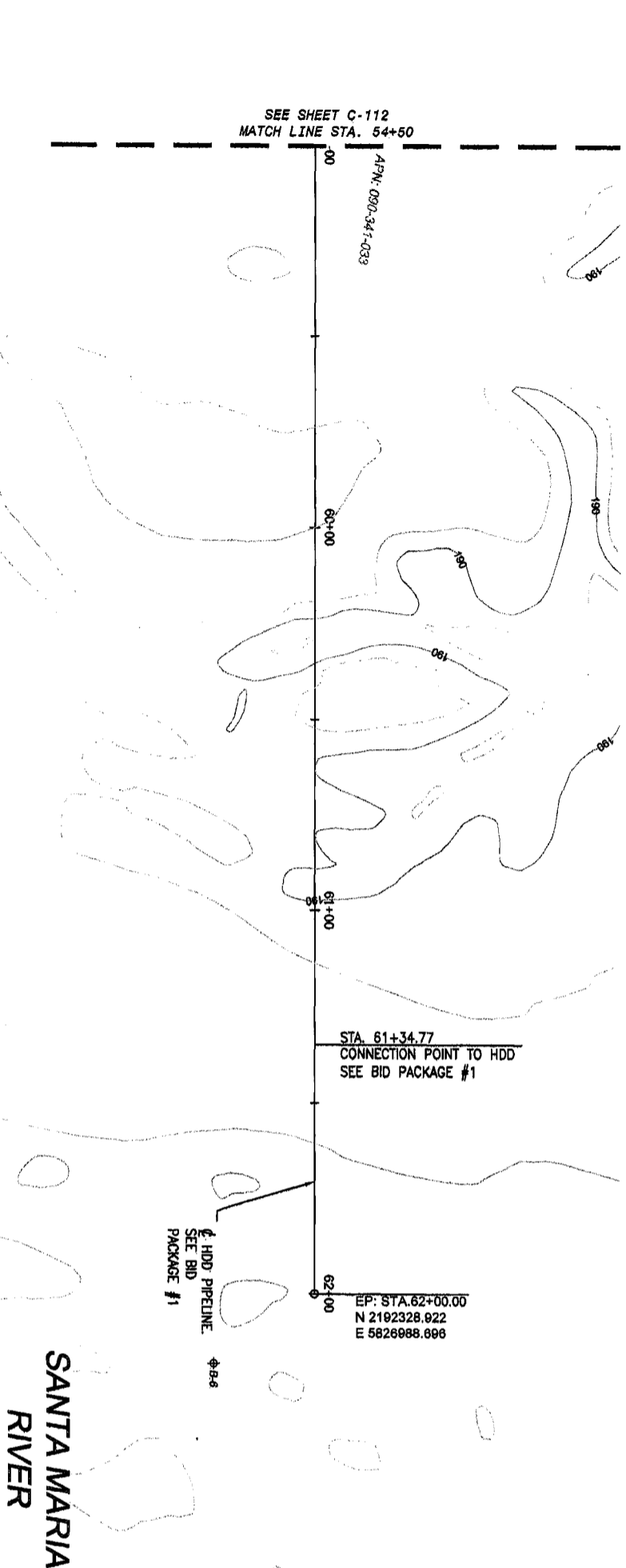
REV	DATE	DESCRIPTION	APPR
PROJECT ENGINEER		REV NUMBER	EXP DATE
JOSHUA H REYNOLDS		C85400	09/30/2009

CSD STDS.  
 DATE: MARCH 2008  
 AECOM PROJECT NO.  
 06081295-0001  
 CSD PROJECT NO.

**C-111**  
 SHEET  
 13 OF 22







PROFILE SCALE  
 HORIZONTAL 1"=20'  
 VERTICAL 1"=5'

SANTA MARIA RIVER

STA. 61+34.77  
 CONNECTION POINT TO HDD  
 SEE BID PACKAGE #1

STA. 61+34.77  
 CONNECTION POINT TO HDD  
 SEE BID PACKAGE #1

EP: STA. 62+00.00  
 N 2192328.922  
 E 5826988.896

φ88  
 HDD PIPELINE  
 SEE BID PACKAGE #1

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**NIPOMO COMMUNITY SERVICES DISTRICT  
 WATERLINE INTERTIE PROJECT - BP3**  
**LEVEE BORE AND JACK  
 PLAN AND PROFILE  
 STA. 59+00 to 62+00**



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REV	DATE	DESCRIPTION	APPR

CAD STDS.  
 DATE: JANU 2009  
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 NCSD PROJECT NO.  
 C-114  
 SHEET  
 16 OF 22

# NIPOMO COMMUNITY SERVICES DISTRICT

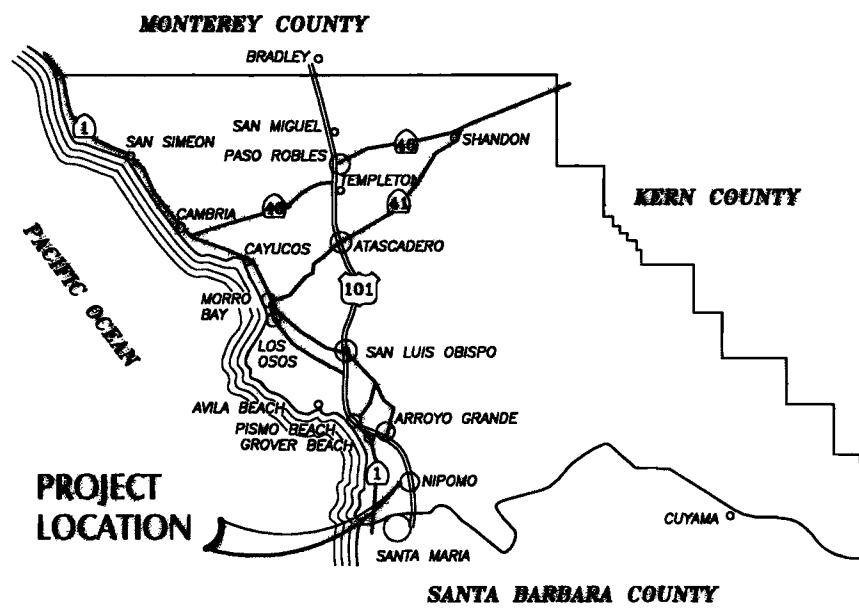


## Construction Plans for WATERLINE INTERTIE PROJECT Bid Package 4

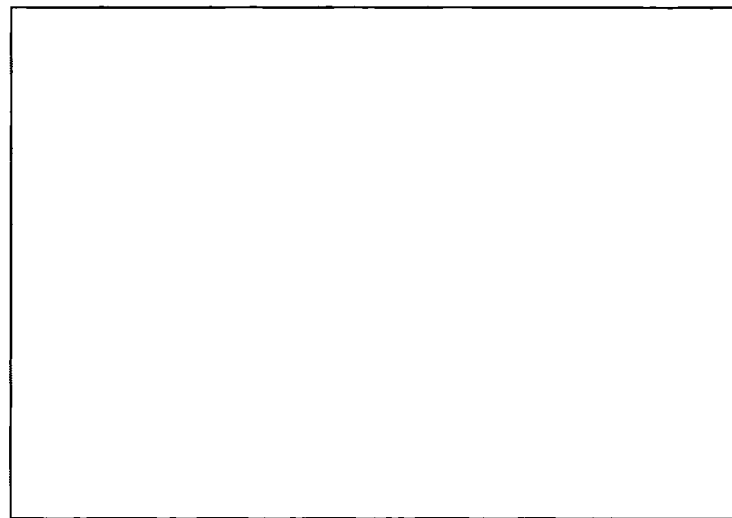
### Joshua Road Pump Station and Reservoir Wellhead Chloramination Improvements

MARCH 2009

AECOM



VICINITY MAP



LOCATION MAP

PROJECT	WATERLINE INTERTIE PROJECT
CLIENT	NIPOMO COMMUNITY SERVICES DISTRICT
APPROVED BY:	
DATE:	
PROJECT NUMBER	00061205
PROJECT MANAGER	MICHAEL HUNLEY, PE 3/2009
DESIGNER	JOSHUA REYNOLDS, PE 3/2009
SCALE	1" = 71'



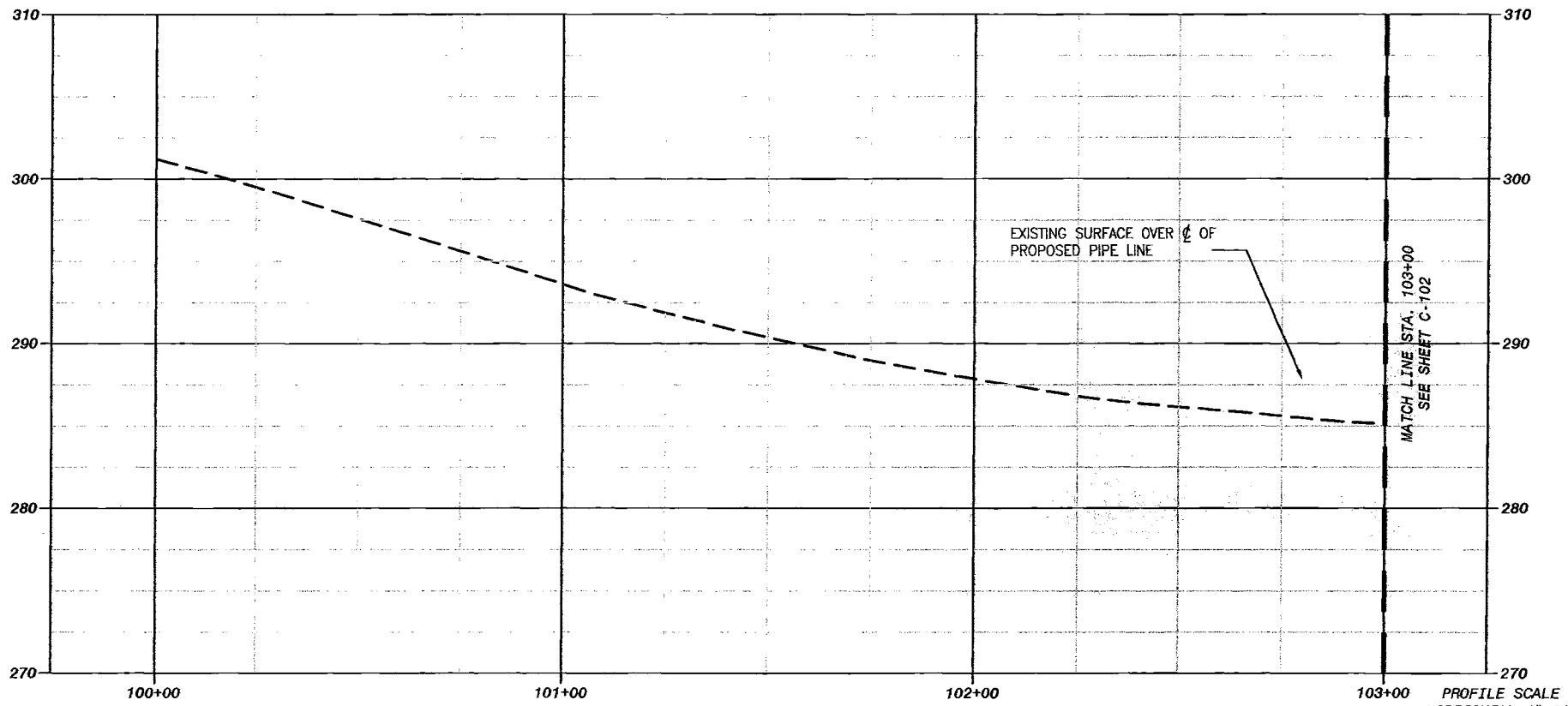
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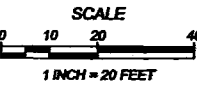
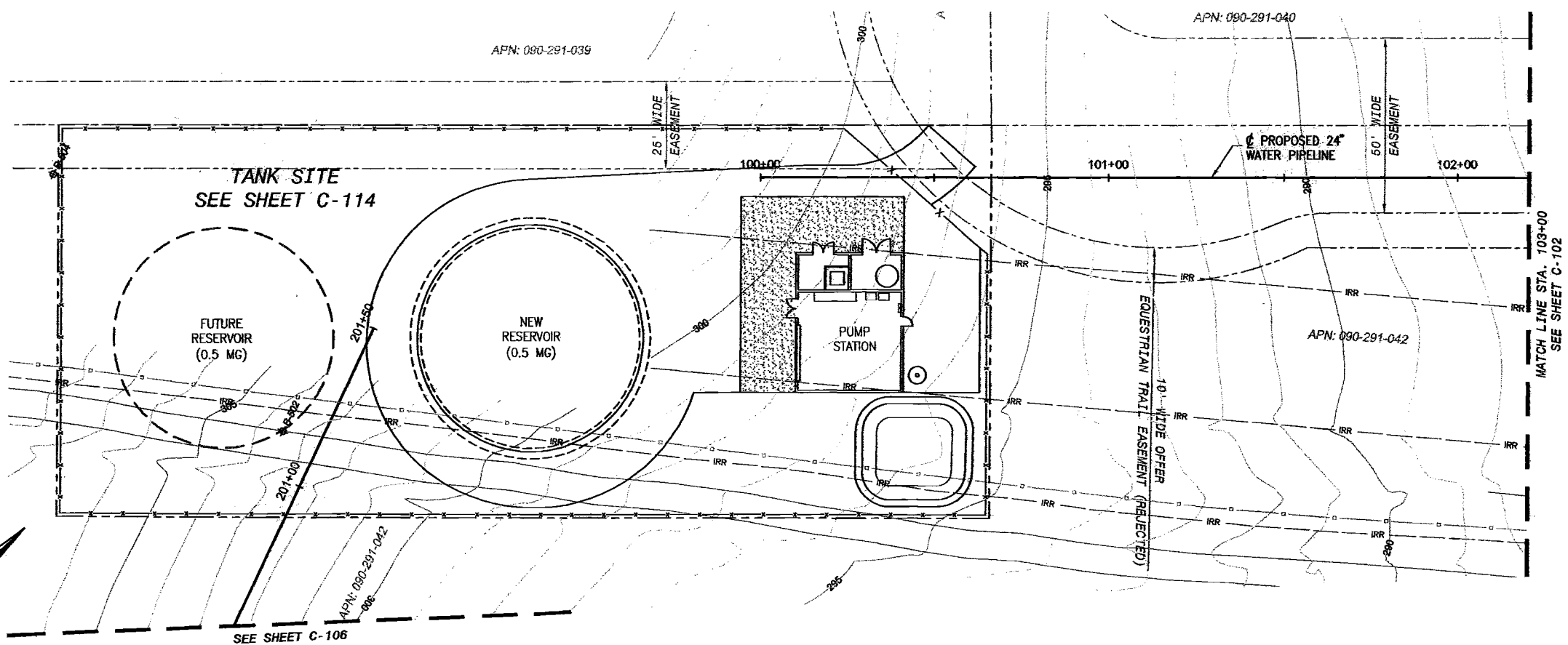
\*\*PRELIMINARY PLANS FOR ALIGNMENT REVIEW - NOT FOR CONSTRUCTION



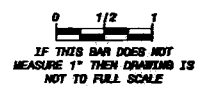
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 XREFS: Surface-Setline - TANK SITE - NIPSD-BP4 - Iugro point - WelloBase - Ex-Ulline - TANK SITE IMAGES: Nipomo\_100.jpg - Santa Maria Waterline-2.dwg -



PROFILE SCALE  
 HORIZONTAL 1"=20'  
 VERTICAL 1"=5'



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APPN	09/30/2009
DESCRIPTION	C05400
PROJECT NUMBER	C05400
DATE	
PROJECT ENGINEER	JOSHUA H. REYNOLDS

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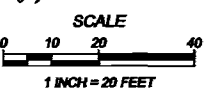
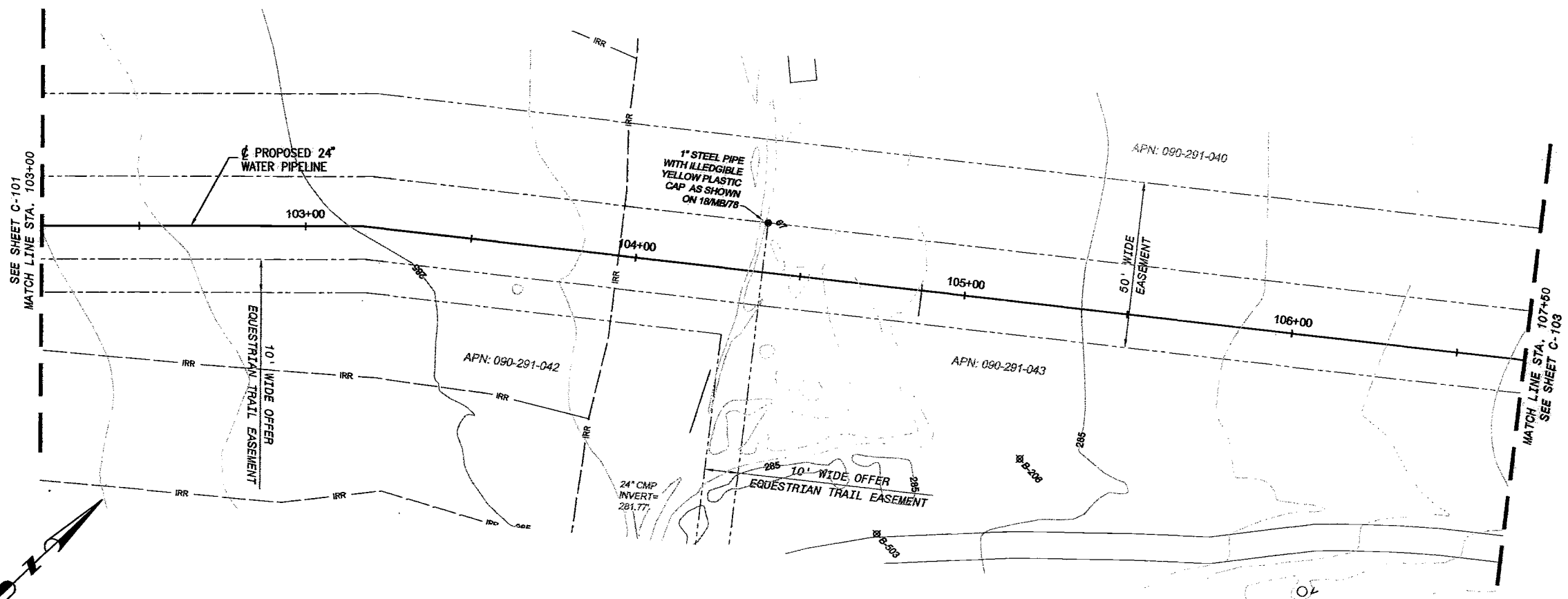
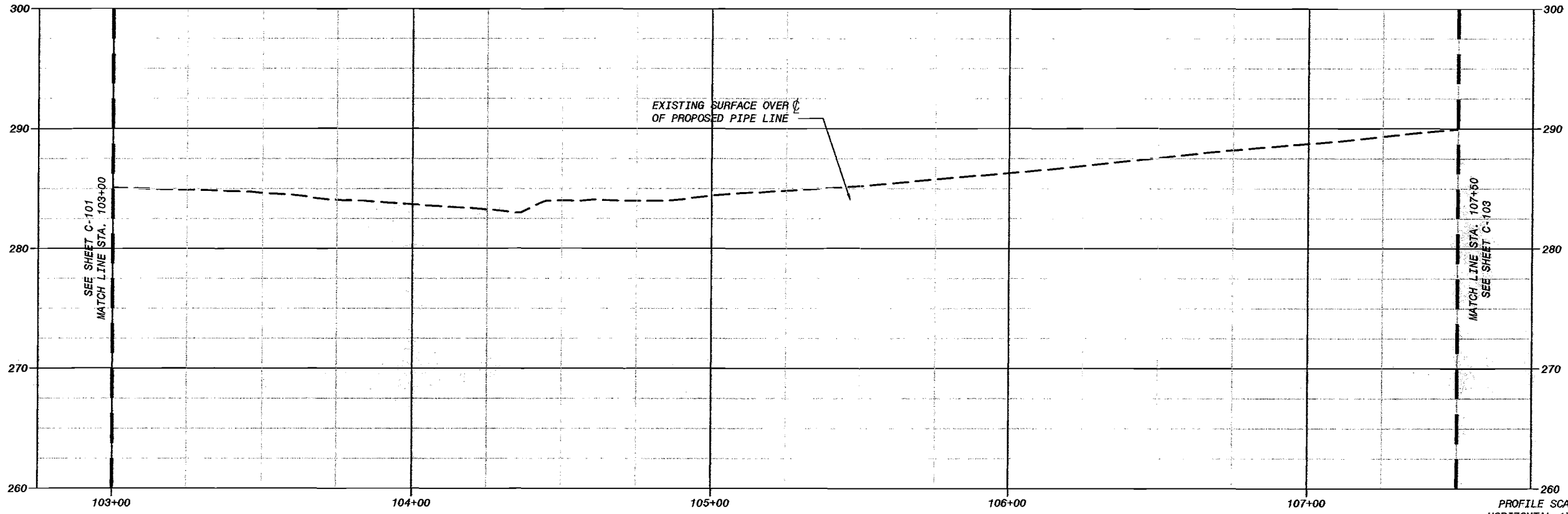
**NIPOMO COMMUNITY SERVICES DISTRICT**  
**WATERLINE INTERLINE PROJECT - BP4**  
**MESA AREA PIPELINE**  
**PLAN AND PROFILE**  
**STA 100+00 TO 103+00**

DESIGNED: JFR  
 DETAILED: JPF  
 CHECKED:  
 APPROVED:  
 DATE: MARCH 2009  
 AECOM PROJECT NO.  
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 NCSD PROJECT NO.

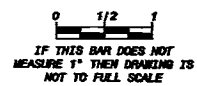
CADD STDS.  
 BOYLE  
**C-101**  
 SHEET  
 3 OF 71



OMC: W:\Nipomo\_CSD (1998)70 Waterline Interline Project Design Plans\CAD\Plans\BP-4\_C05.dwg (Project) (C-102) - Routed by: Freilicher, Jim Date: 4/27/2009 - 3:03 PM  
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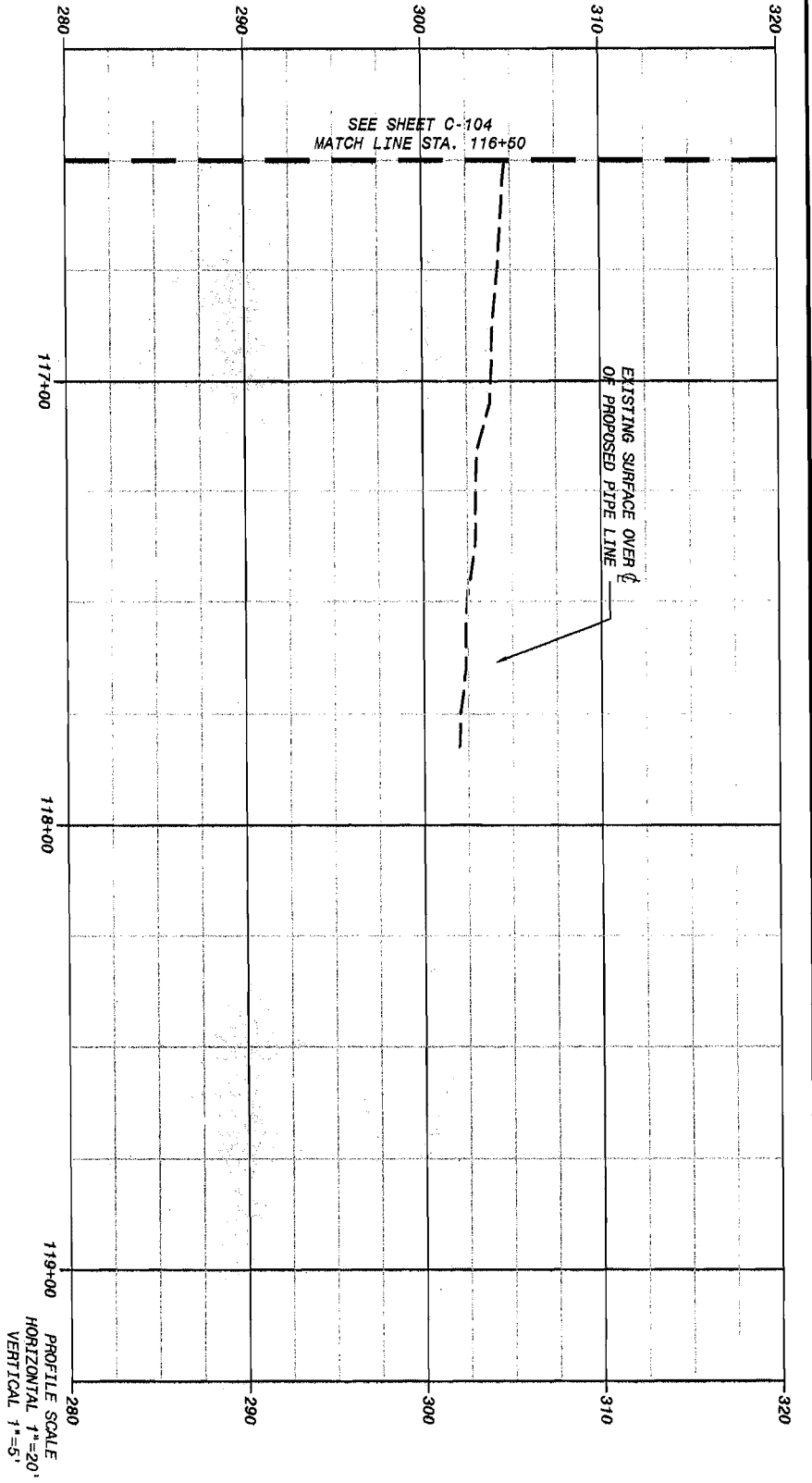
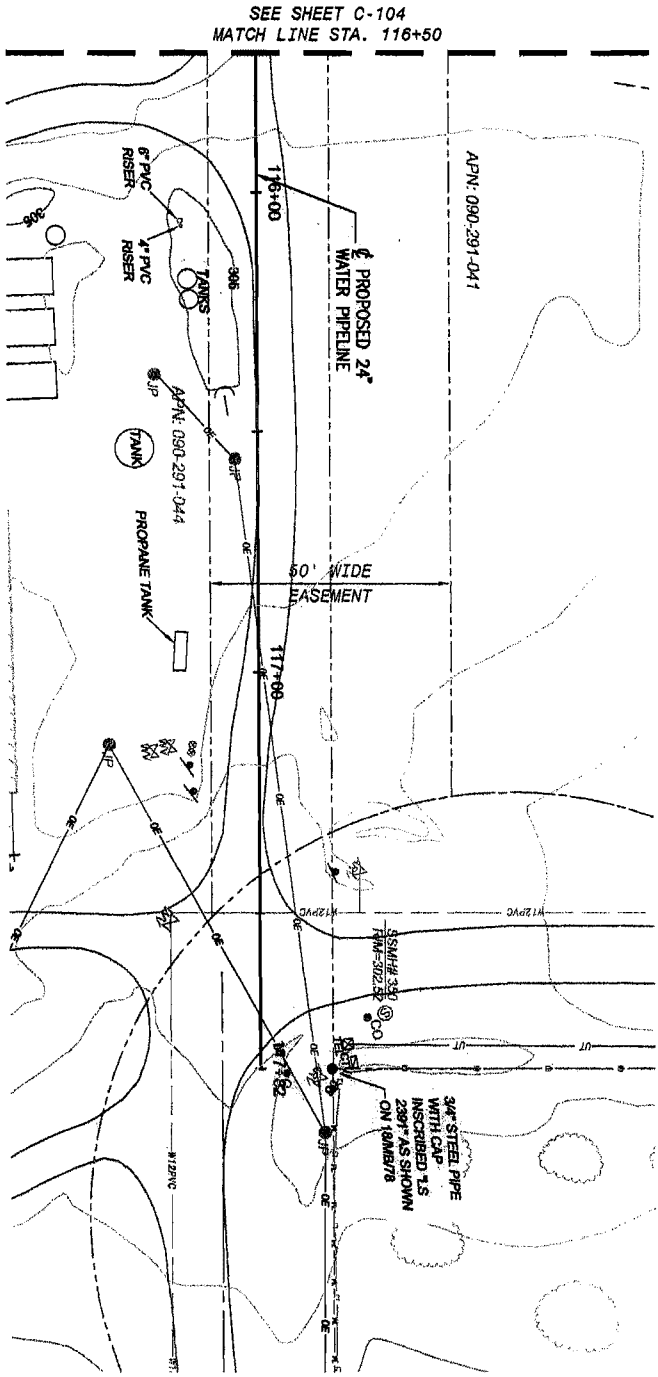
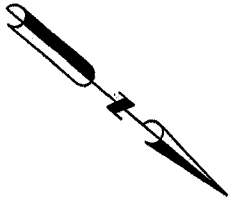
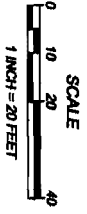
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<b>NIPOMO COMMUNITY SERVICES DISTRICT          WATERLINE INTERLINE PROJECT - BP4</b>													
<b>MESA AREA PIPELINE          PLAN AND PROFILE          STA 103+00 TO 107+500</b>													
DESIGNED: JPR DETAILED: JPF CHECKED: APPROVED:	DATE: MARCH 2009 AECOM PROJECT NO. 00061285.0001 NCSD PROJECT NO.												
CADD STDS. BOYLE	<b>C-102</b> SHEET 4 OF 71												
REVISIONS <table border="1"> <thead> <tr> <th>REV</th> <th>DATE</th> <th>DESCRIPTION</th> <th>REV NUMBER</th> <th>APPR</th> <th>EXP DATE</th> </tr> </thead> <tbody> <tr> <td>1</td> <td></td> <td></td> <td>C65-400</td> <td>JOSHUA H REYNOLDS</td> <td>09/30/2009</td> </tr> </tbody> </table>		REV	DATE	DESCRIPTION	REV NUMBER	APPR	EXP DATE	1			C65-400	JOSHUA H REYNOLDS	09/30/2009
REV	DATE	DESCRIPTION	REV NUMBER	APPR	EXP DATE								
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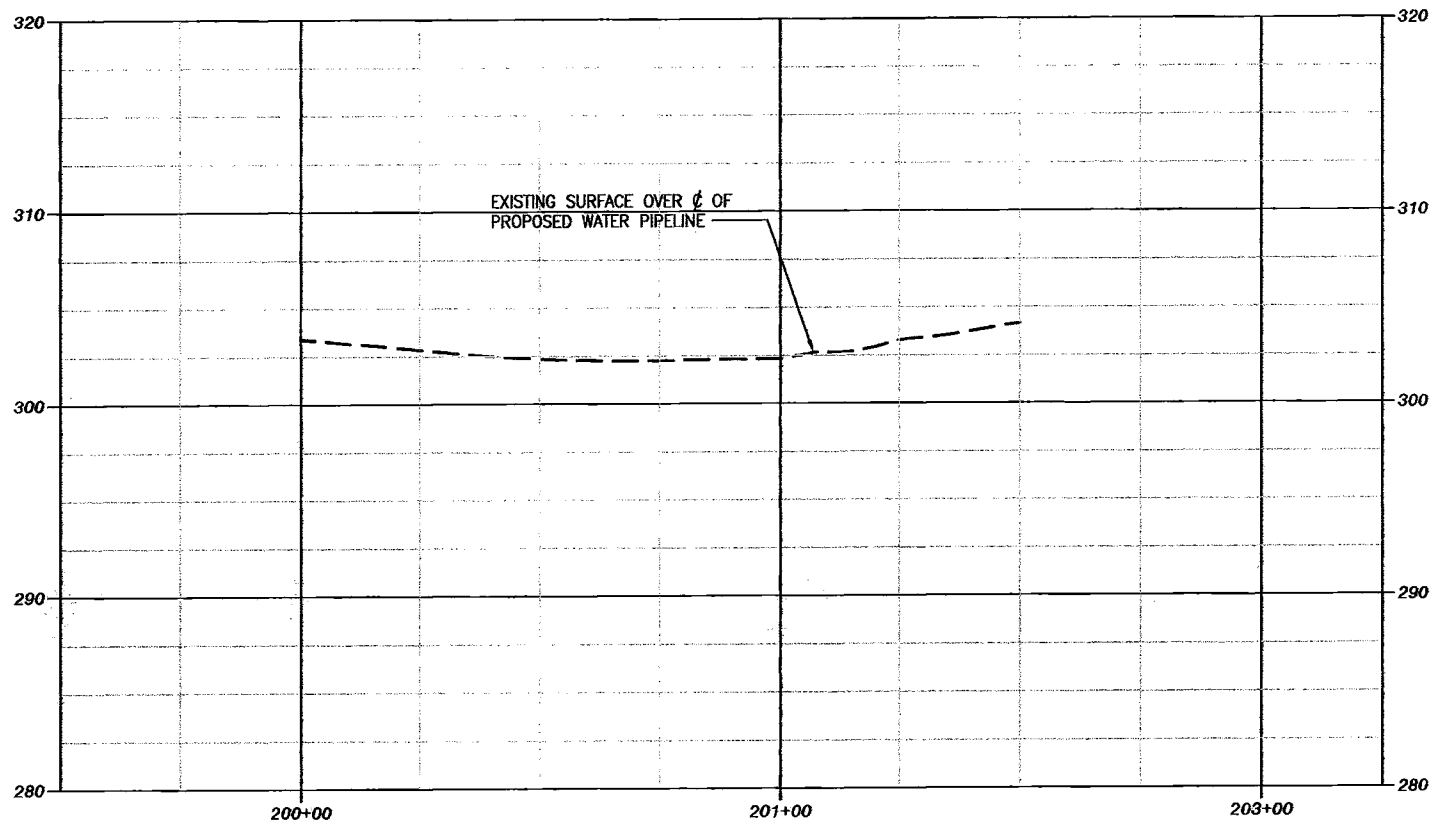
PROFILE SCALE  
 HORIZONTAL 1"=20'  
 VERTICAL 1"=5'

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 NOT TO BE USED FOR CONSTRUCTION  
 DATE: MARCH 31, 2009

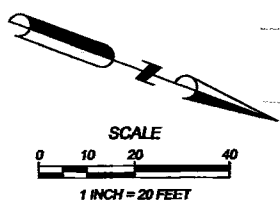
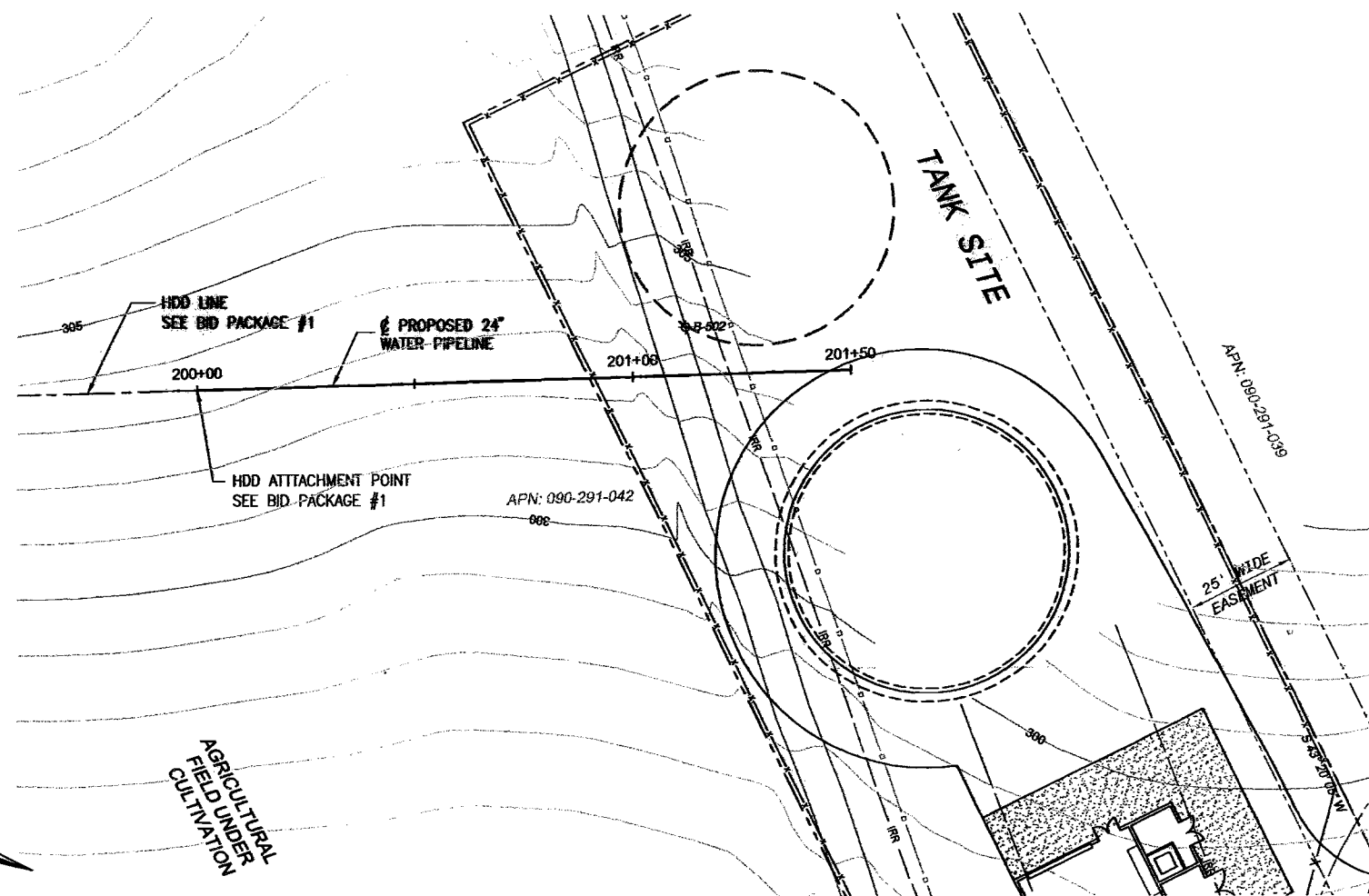


<b>NIPOMO COMMUNITY SERVICES DISTRICT          WATERLINE INTERTIE PROJECT - BP4</b>		<b>AECOM</b>	AECOM USA, Inc. 1194 Pacific Street, Suite 204 San Luis Obispo, California 93401 T: 805.542.9840 F: 805.542.9990 www.aecom.com																
<b>MESA AREA PIPELINE          PLAN AND PROFILE          STA 116+50 TO 119+00</b>		<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th>REV</th> <th>DATE</th> <th>DESCRIPTION</th> <th>APPR</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table>		REV	DATE	DESCRIPTION	APPR												
REV	DATE	DESCRIPTION	APPR																
CAD STGS. BY: JL DATE: MARCH 2009	APPROVED: DATE: MARCH 2009	DESIGNED: JHR CHECKED: JHR DRAWN: JHR	PROJECT ENGINEER <b>JOSHUA H REYNOLDS</b>																
AECOM PROJECT NO. 00097266.0001	NCSO PROJECT NO. 7 OF 71	REG NUMBER <b>C68400</b>	EXP DATE <b>09/30/2009</b>																

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PROFILE SCALE  
 HORIZONTAL 1"=20'  
 VERTICAL 1"=5'



AGRICULTURAL  
 FIELD UNDER  
 CULTIVATION

PROJECT NUMBER	090-291-042
DESCRIPTION	WATERLINE INTERTIE PROJECT - BPA
DATE	09/30/2009
PROJECT ENGINEER	JOSHUA H. REYNOLDS
REF NUMBER	090-291-042

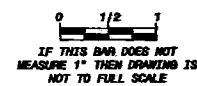
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**NIPOMO COMMUNITY SERVICES DISTRICT**  
**WATERLINE INTERTIE PROJECT - BPA**  
**PIPELINE FROM HDD TO TANK SITE**  
**PLAN AND PROFILE**  
**STA 200+00 to 201+50**

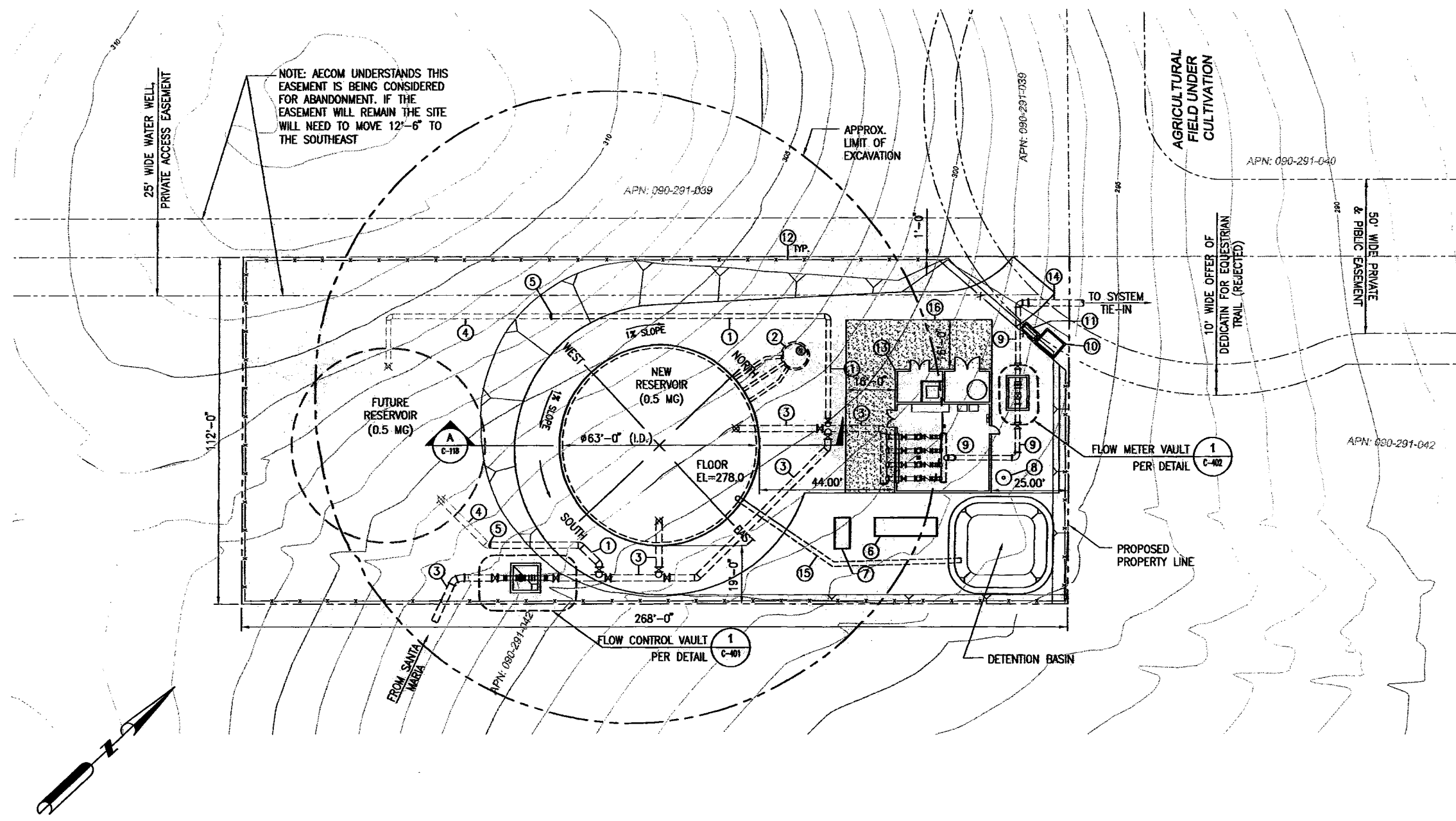
DESIGNED: JHR
DETAILED: JPF
CHECKED:
APPROVED:
DATE: MARCH 2009
AECOM PROJECT NO. 00081298.0001
NCSD PROJECT NO.




CADD STDS.  
 BOYLE  
**C-106**  
 SHEET  
 8 OF 71

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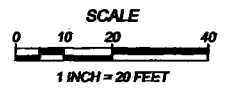
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AECOM USA, Inc. 1184 Pacific Street, Suite 204 San Luis Obispo, California 93401 805-424-8900 F 805-424-8980 www.aecom.com



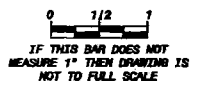
- CONSTRUCTION NOTES:**
- ① 18" WSP
  - ② DRAINAGE MANHOLE, SEE DETAIL 
  - ③ 24" WSP
  - ④ FUTURE 18" WSP
  - ⑤ 18" BLIND FLANGE
  - ⑥ EMERGENCY GENERATOR
  - ⑦ GENERATOR FUEL TANK
  - ⑧ SURGE TANK
  - ⑨ 18" DIP
  - ⑩ PG&E PAD MOUNTED TRANSFORMER
  - ⑪ METERING SWITCHBOARD
  - ⑫ 6'-0" HIGH CHAIN LINK FENCE WITH THREE STRANDS OF BARBED WIRE, SEE DETAIL 
  - ⑬ PUMP STATION AND CHLORAMINE BOOSTER BUILDING, SEE DETAIL 
  - ⑭ 24" DIP
  - ⑮ 18" DIP TANK OVERFLOW
  - ⑯ ASPHALT APRON

**NOTES:**

- 1. GRADING IS PRELIMINARY, TO BE REVISED IN 60% SUBMITTAL

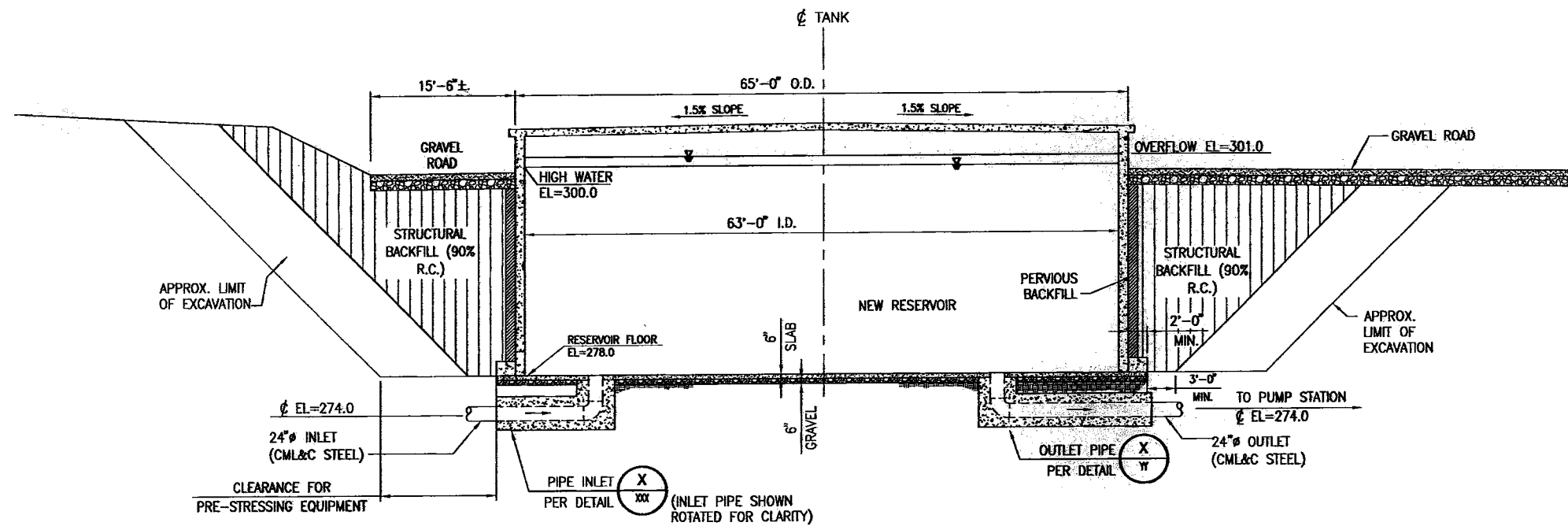


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NIPOMO COMMUNITY SERVICES DISTRICT WATERLINE INTERLINE PROJECT - BP4	
RESERVOIR SITE PLAN	
DESIGNED: JMR/ES	DATE: MARCH 2009
DETAILED: JPF	AECOM PROJECT NO. 90061295.0001
CHECKED:	NCSO PROJECT NO.
APPROVED:	CADD STDS. BOYLE
C-114 SHEET 16 OF 71	

DWG: W:\Nipomo\_CSD (19998)\18996.70 Waterline Interline Project Design\Drawings\Plan\CAD\Plan\BP-L\_JOSHUA\_30X\_Plan\G-118.dwg Layout Name: G-118 - Plotted by: Freilicher, Jim Date: 4/27/2009 - 3:08 PM  
 XREFS: MSD-9D\_BP4 IMAGES: Nipomo Logo.rla



**SECTION**

SCALE: 1/8"=1'-0"



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0 1/2 1  
 IF THIS BAR DOES NOT  
 MEASURE 1" THEN DRAWING IS  
 NOT TO FULL SCALE

REV	DATE	DESCRIPTION	APP'D
1	08/30/2009	ISSUE FOR CONSTRUCTION	JOSHUA H. REYNOLDS

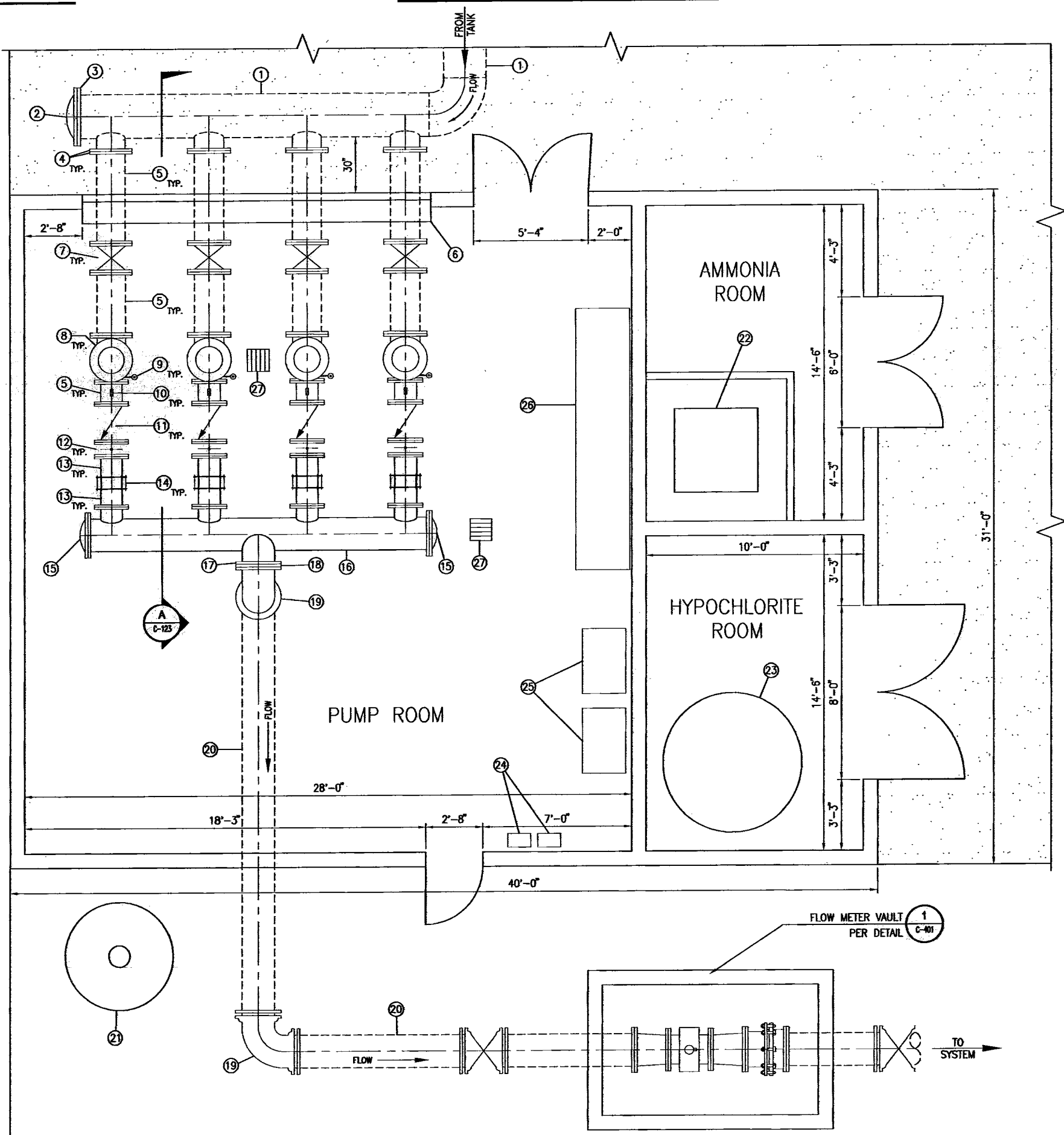
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**NIPOMO COMMUNITY SERVICES DISTRICT  
 WATERLINE INTERLINE PROJECT - BP4**  
**RESERVOIR SECTION VIEW**

DESIGNED: ESI/JWR  
 DETAILED: JPF  
 CHECKED:  
 APPROVED:  
 DATE: MARCH 2009  
 AECOM PROJECT NO.  
 00061295.0001  
 NCSO PROJECT NO.

CADD STDS.  
 BOYLE  
**C-118**  
 SHEET  
 20 OF 71

DWG: W:\Nipomo\_CSD (19988) 1988870 Waterline Interline Project Design\Design Plans\CAD\Planets\BP-L\_JOSHUA\_30X Plans\C-121.dwg Layout Name: C-121 Date: 4/27/2009 3:09 PM  
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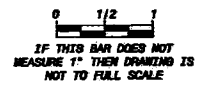
**CONSTRUCTION NOTES:**

- ① 24" CMLC WELDED STEEL PIPE
- ② 24" BLIND FLANGE
- ③ 24" WELDABLE FLANGE
- ④ 16" WELDABLE FLANGE
- ⑤ 16" WELDED STEEL PIPE SPOOL, FLC'D
- ⑥ 16-FOOT WIDE ROLL-UP DOOR
- ⑦ 16" RESILIENT WEDGE GATE VALVE, FLC'D
- ⑧ 5 STAGE, 100hp VERTICAL TURBINE PUMP RATED AT 800gpm AT 350-ft TDH
- ⑨ AIR RELEASE VALVE
- ⑩ PRESSURE GAUGE
- ⑪ 12" CHECK VALVE, FLC'D
- ⑫ 12" BUTTERFLY VALVE, FLC'D
- ⑬ 12" WELDED STEEL PIPE SPOOL, PEXFLG
- ⑭ 12" COUPLER
- ⑮ 18" BLIND FLANGE
- ⑯ 18" WELDED STEEL PIPE
- ⑰ 18" WELDABLE FLANGE
- ⑱ WESTFALL STATIC MIXER
- ⑲ 18" 90° ELBOW, FLC'D
- ⑳ 18" DUCTILE IRON PIPE
- ㉑ 5" x 8"-0" HIGH BLADDER SURGE TANK
- ㉒ 220gal AMMONIUM SULFATE SOLUTION TANK
- ㉓ 1000gal SODIUM HYPOCHLORITE TANK
- ㉔ RESIDUAL METERS
- ㉕ SKID MOUNTED CHEMICAL METERING PUMPS
- ㉖ MOTOR CONTROL CENTER
- ㉗ 12'x12' FLOOR DRAIN

**PUMP STATION FLOOR PLAN**

SCALE: 3/8"=1'-0"

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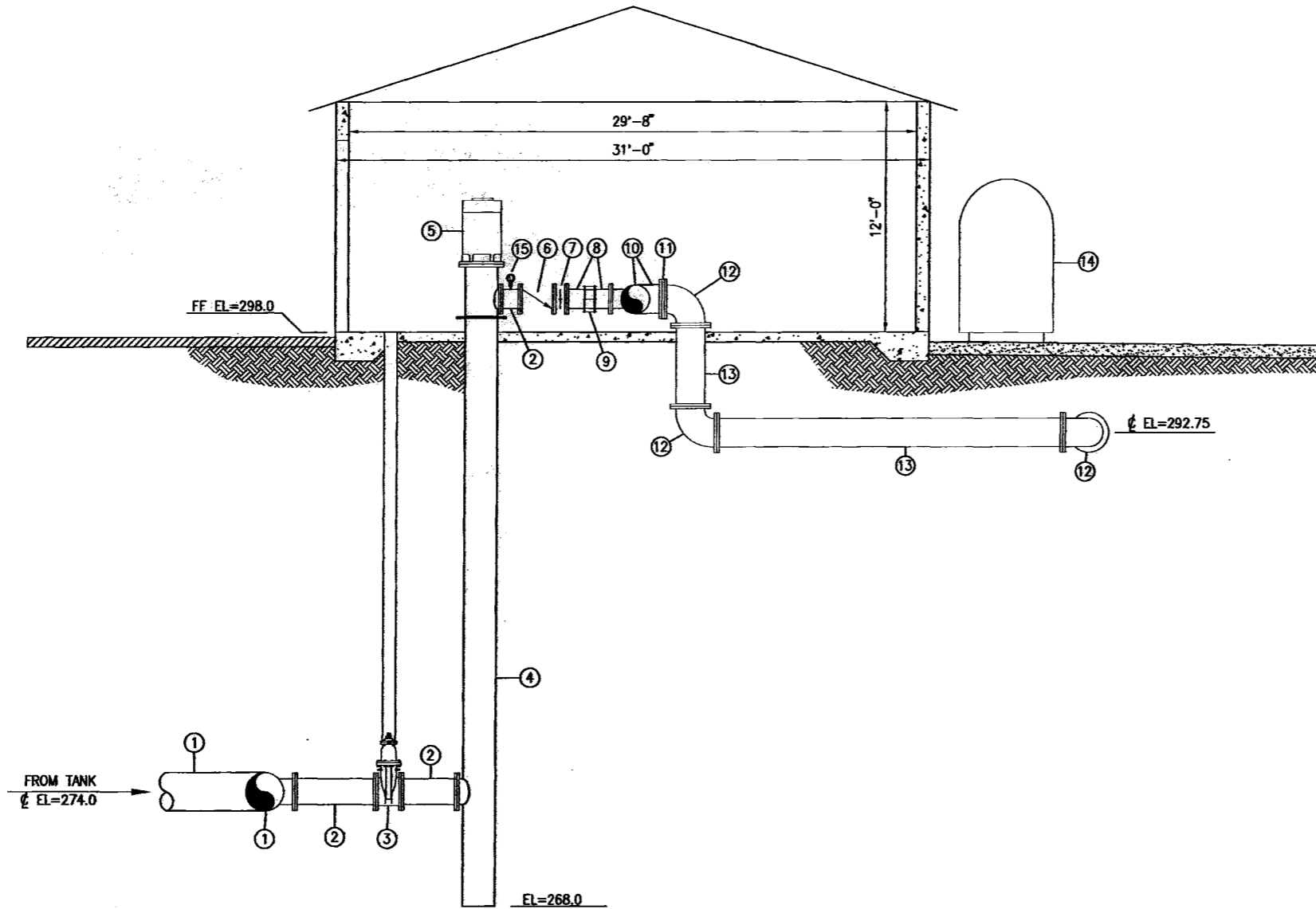


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<b>NIPOMO COMMUNITY SERVICES DISTRICT          WATERLINE INTERLINE PROJECT - BP4</b>	
<b>PUMP STATION          FLOOR PLAN</b>	
DESIGNED: JMR/ES	DATE: MARCH 2009
DETAILED: JPF	AECOM PROJECT NO. 00061295.0001
CHECKED:	NCSD PROJECT NO.
APPROVED:	CADD STDS. BOYLE
<b>C-121</b> SHEET 21 OF 71	



DWG: W:\Projects\CSD\1088870\Waterline\Intertie\Design\Drawings\Plan\CA0\Planet\BP-L\JOSHUA\306\Planet\C-123.dwg Layout Name: C-123 - Plotted by: Ffajfischer, Jim Date: 4/27/2009 - 3:09 PM  
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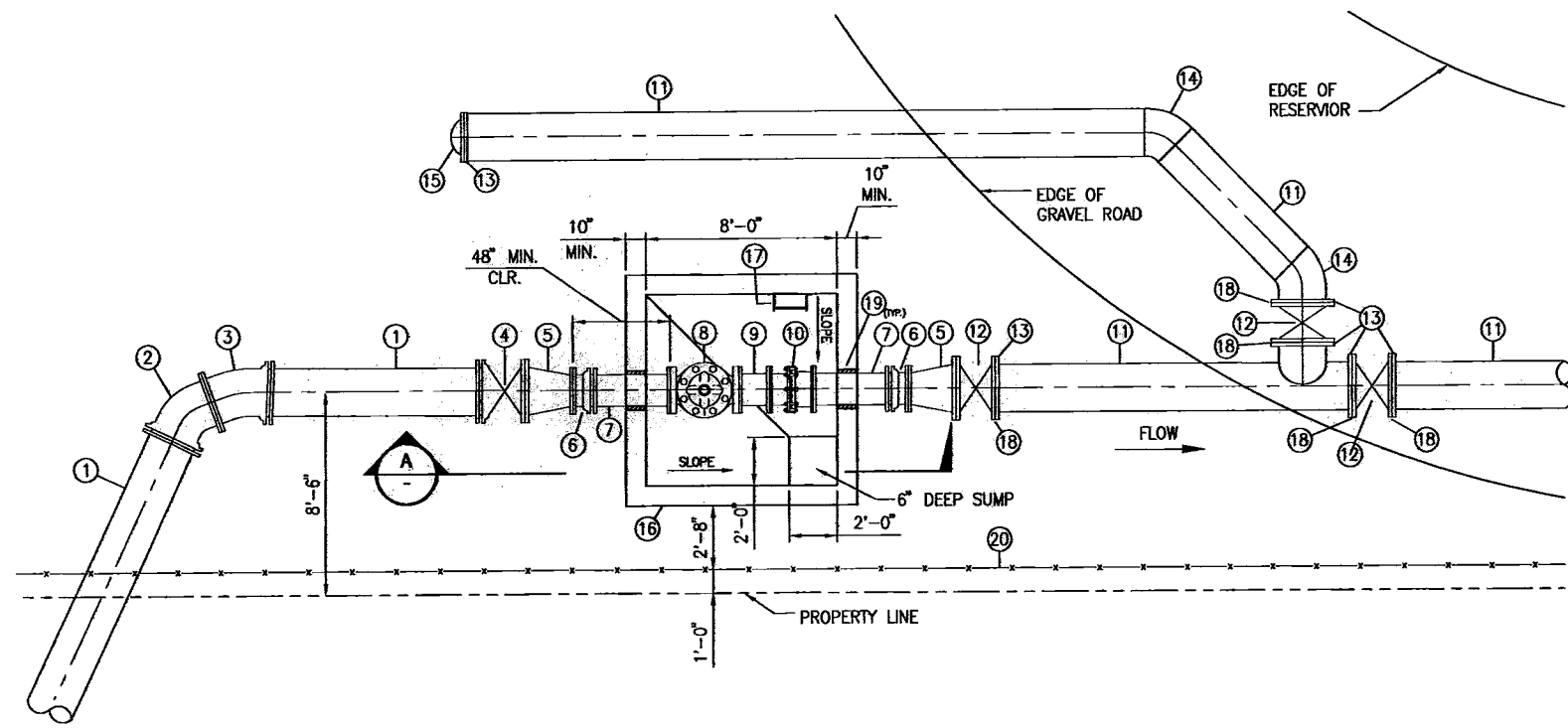
**PUMP STATION SECTION**  
 SCALE: 1/4" = 1'-0"

**CONSTRUCTION NOTES:**

- ① 24" CMLC WELDED STEEL PIPE
- ② 16" WELDED STEEL PIPE SPOOL, FLG'D
- ③ 16" RESILIENT WEDGE GATE VALVE, FLG'D
- ④ 20" SUCTION CAN
- ⑤ 5 STAGE, 100hp VERTICAL TURBINE PUMP RATED AT 800gpm AT 350-ft TDH
- ⑥ 12" CHECK VALVE, FLG'D
- ⑦ 12" BUTTERFLY VALVE, FLG'D
- ⑧ 12" WELDED STEEL PIPE SPOOL, PEXFLG
- ⑨ 12" COUPLER
- ⑩ 18" WELDED STEEL PIPE
- ⑪ WESTFALL STATIC MIXER
- ⑫ 18" 90° ELBOW, FLG'D
- ⑬ 18" DUCTILE IRON PIPE
- ⑭ 5' x 8'-0" HIGH BLADDER SURGE TANK
- ⑮ PRESSURE GAUGE

<b>AECOM</b> <small>AECOM USA, Inc.        1184 Pacific Street, Suite 204        San Jose, CA 95128        T 408.434.2000 F 408.434.2000        www.aecom.com</small>	<small>APP'D DATE</small> <small>PROJECT NUMBER</small> <small>DESCRIPTION</small> <small>REV NUMBER</small> <small>REV DATE</small> <small>PROJECT ENGINEER</small> <small>JOSHUA H. REYNOLDS</small> <small>C566400</small> <small>09/30/2009</small>
<b>NIPOMO COMMUNITY SERVICES DISTRICT WATERLINE INTERTIE PROJECT - BP4</b> <b>PUMP STATION PIPING SECTION</b>	
<small>DESIGNED: JMW/ES</small> <small>DETAILED: JWF</small> <small>CHECKED:</small> <small>APPROVED:</small> <small>DATE: MARCH 2009</small> <small>AECOM PROJECT NO. 00081295.0001</small> <small>NCSO PROJECT NO.</small>	
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<small>IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO FULL SCALE</small>	
<small>CADD STDS. BOYLE</small> <b>C-123</b> <b>SHEET 22 OF 71</b>	

D:\NIPOMO\_CSD\1999B\1999B70 Waterline Interline Project Design\Drawings\Plans\CD\Planets\BP-L\JOSHUA\_30% Planets\C-401.dwg Layout Name: C-401  
 PLOTTED BY: FREILICHER, JIM DATE: 4/27/2009 3:11 PM  
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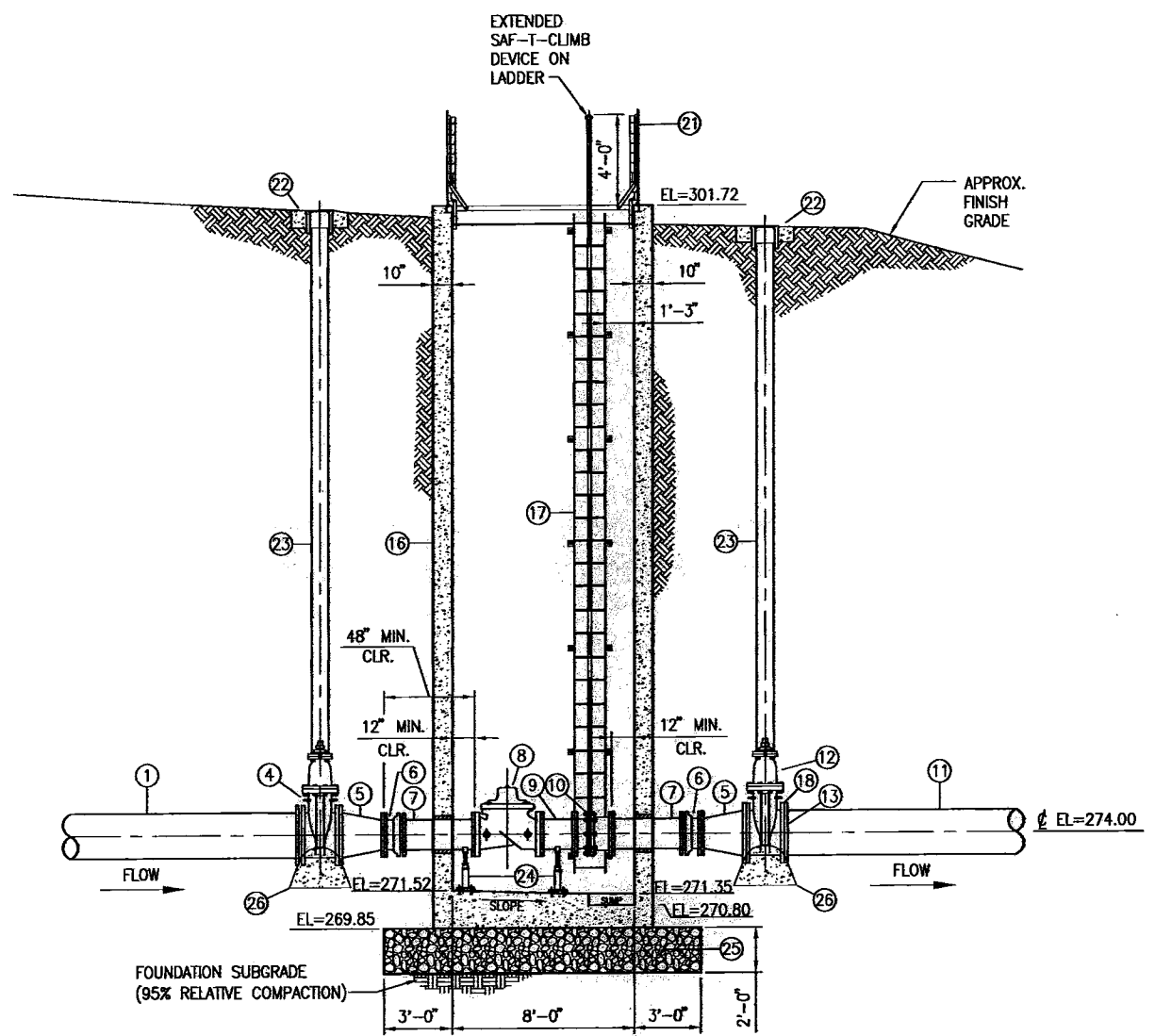
**FLOW CONTROL VALVE VAULT**

SCALE: 1/4"=1'-0"

1

**CONSTRUCTION NOTES:**

- |  |  |
|--|--|
| ① 24" $\phi$ DUCTILE IRON PIPE   | ⑭ 24" WSP 45° ELBOW, MxFLG   |
| ② 24" D.I. 45° ELBOW, MxFLG, RESTRAINED                                  | ⑮ 24" DI BLIND FLANGE  |
| ③ 24" D.I. 22.5° ELBOW, MxFLG, RETRAINED                                 | ⑯ 8'-0" x 8'-0" CONCRETE VAULT PER DETAIL  |
| ④ 24" RESILIENT WEDGE GATE VALVE, MxFLG                                  | ⑰ LADDER, 316 STAINLESS STEEL WITH 304 SST SAF-T-CLIMB DEVICES PER DETAIL                      |
| ⑤ 24" x 16" D.I. REDUCER, FLG'D  | ⑱ INSULATING FLANGE PER DETAIL   |
| ⑥ 16" Mx FLANGE ADAPTER  | ⑲ PIPE PENETRATION PER DETAIL  |
| ⑦ 16" $\phi$ DIP SPOOL, FLGxPE   | ⑳ 6-FOOT HIGH CHAIN LINK SECURITY FENCE PER DETAIL   |
| ⑧ 16" REDUCED PORT ELECTRONIC FLOW CONTROL AND HIGH WATER SHUT-OFF VALVE | ㉑ 8'-0" x 8'-0" DOUBLE LEAF ALUMINUM ACCESS HATCH PER SPEC. SECTION                            |
| ⑨ 16" $\phi$ DIP SPOOL, FLG'D  | ㉒ VALVE BOX AND CONCRETE RING PER DETAIL   |
| ⑩ 16" DISMANTLING JOINT  | ㉓ 8" $\phi$ SDR-35 PVC EXTENSION   |
| ⑪ 24" $\phi$ I.D. WELDED-STEEL PIPE, CML&C                               | ㉔ PIPE SUPPORT PER DETAIL  |
| ⑫ 24" RESILIENT WEDGE GATE VALVE, FLG'D                                  | ㉕ CLEAN COMPACTED CRUSHED ROCK, 90% REL. COMP., SURROUNDED ALL SIDES WITH GEOFABRIC, PER SPEC. |
| ⑬ 24" WELDED NECK FLANGE OR DOUBLE WELDED SLIP-ON FLANGE                 | ㉖ CONCRETE ANCHOR BLOCK PER DETAIL   |

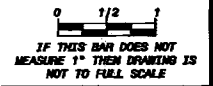


**SECTION**

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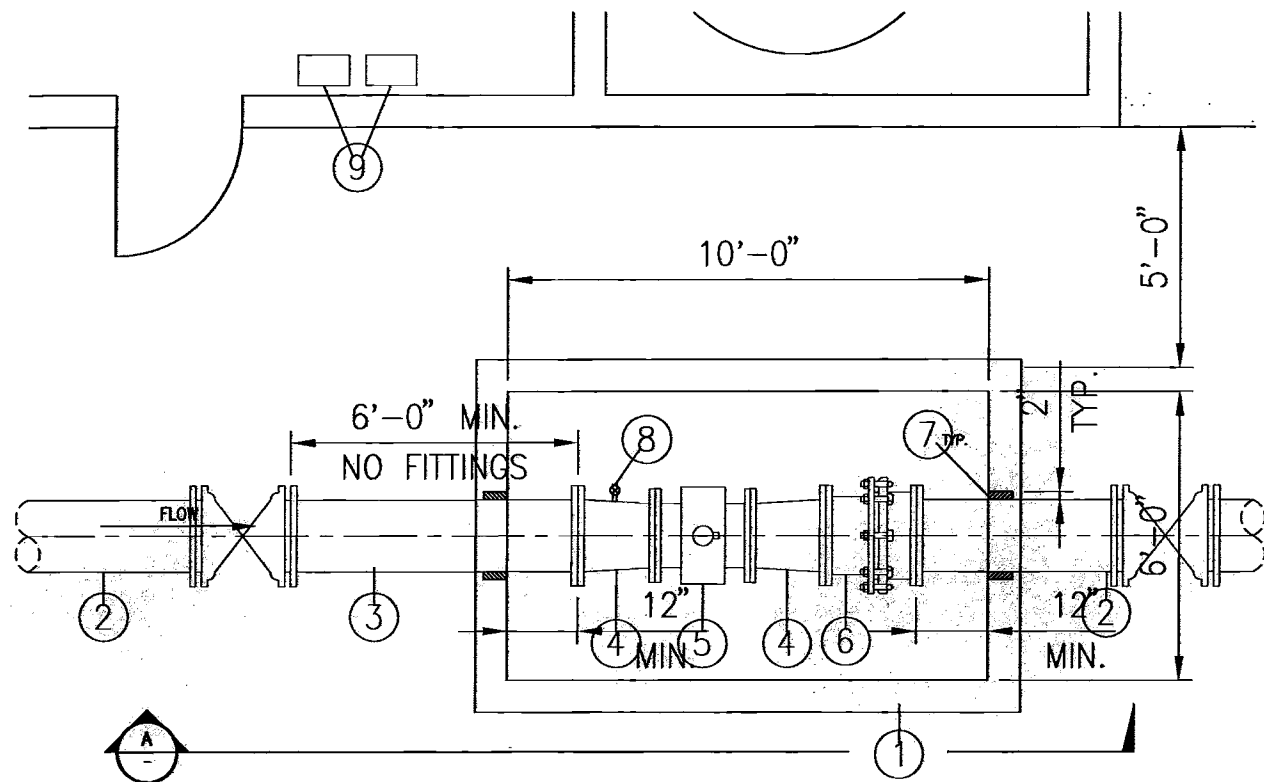
A

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<b>NIPOMO COMMUNITY SERVICES DISTRICT          WATERLINE INTERLINE PROJECT - BP4</b>	
<b>FLOW CONTROL VALVE VAULT</b>	
DESIGNED: JMR/ES	CHECKED: JPF
DATE: MARCH 2009	APPROVED:
AECOM PROJECT NO. 00061295.0001	NCSO PROJECT NO.
CADD STDS. BOYLE	C-401 SHEET 32 OF 71

DWG: W:\Nipomo\_CSD (199960)\1999870 Waterline Interline Project\_Design\Drawings\Plan\BP4-BP4.dwg Plot Date: 4/27/2009 3:11 PM  
 XREFS: TANK SITE4 - NCSO-BD\_BP4 - Surface-Section2-FishV2 MAJSES\_Cb-Via.dwg - Nipomo 199960



- CONSTRUCTION NOTES:**
- ① 6'x10' CONCRETE VAULT
  - ② 18" DIP
  - ③ 18" X 6'-0" DIP SPOOL, FLG,D
  - ④ 18"x16" REDUCER, FLG'S
  - ⑤ 16" PROMAG W REMOTE MAG METER
  - ⑥ 18" DISMANTLING COUPLING
  - ⑦ LINK SEAL & GROUT
  - ⑧ TAP FOR RESIDUAL SAMPLE
  - ⑨ RESIDUAL METERS

**FLOW METER VAULT**  
 SCALE: 1/2"=1'-0"

1

DATE	PROJECT ENGINEER	DESCRIPTION	APPR
JOSHUA H. REYNOLDS	CS6400		08/30/2009

**AECOM**

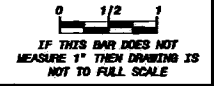
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**NIPOMO COMMUNITY SERVICES DISTRICT  
 WATERLINE INTERLINE PROJECT - BP4**

FLOW METER VAULT

DESIGNED: JHW/ES  
 DETAILED: JFF  
 CHECKED:  
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 DATE: MARCH 2009  
 AECOM PROJECT NO.:  
 0001296.0001  
 NCSO PROJECT NO.:

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CADD STDS.  
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**C-402**  
 SHEET  
 33 OF 71