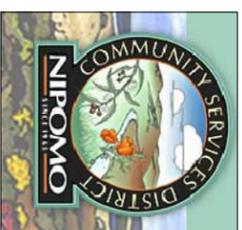


NIPOMO COMMUNITY SERVICES DISTRICT



Construction Plans for

WATERLINE INTERTIE PROJECT

Bid Package 1 (BP-1)

Santa Maria River Crossing

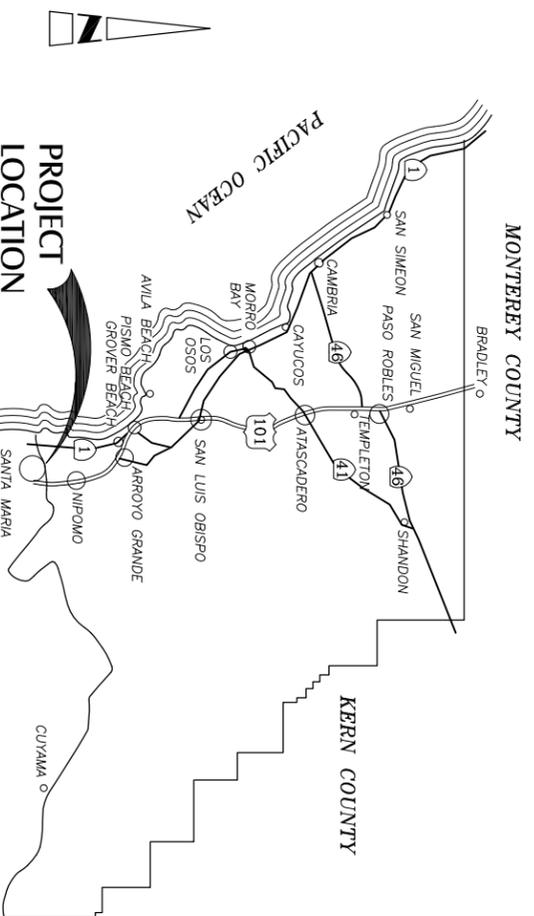
JUNE 2009

SHEET INDEX

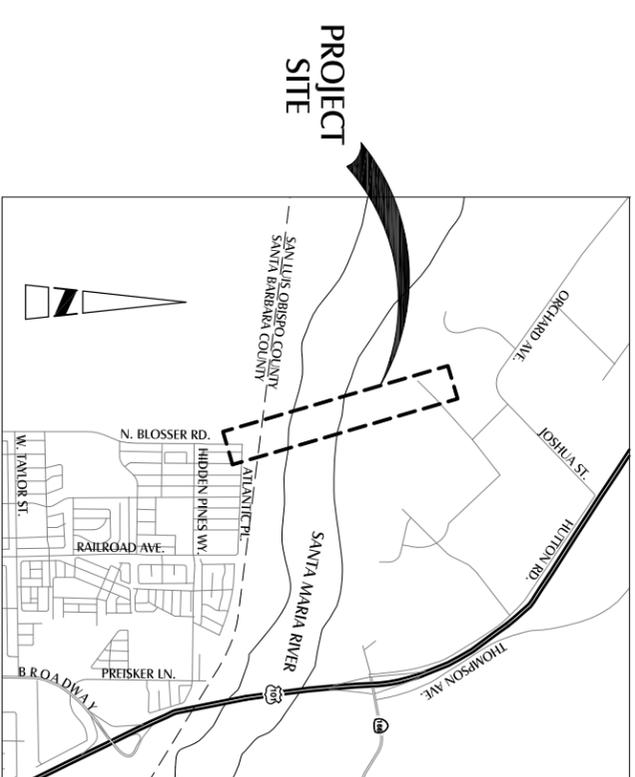
SHT. NO.	DWG. NO.	SHEET TITLE
1	G-001	TITLE SHEET
2	G-002	GENERAL NOTES
3	C-101	SITE PLAN - SOUTH
4	C-102	SITE PLAN - NORTH
5	C-201	HDD PROFILE
6	C-401	ENLARGED SITE PLAN - SOUTH
7	C-402	ENLARGED SITE PLAN - NORTH
8	C-403	ENLARGED PROFILES
9	C-501	DETAILS - 1
10	C-502	DETAILS - 2

AGENCY/UTILITY

AGENCY	CONTACT	PHONE NUMBER
NCSD - GENERAL MANAGER	BRUCE BUEL	(805) 929-1133
NCSD - DISTRICT ENGINEER	PETER SEVCIK, P. E.	(805) 929-1133
NCSD - UTILITIES SUPERINTENDENT	TINA GRILETENS	(805) 929-1341
USACOE - L.A.D. - PROJECT MANAGER	EHMAN J. ESHRAGHI	(213) 452-4013
SBCFC&WCD - ENGINEERING MANAGER	JON FRYE, P. E.	(805) 568-3440
CITY OF SANTA MARIA	TOM WAHNETTEN	(805) 546-5272
PG&E		
UNDERGROUND SERVICE ALERT		811



VICINITY MAP



LOCATION MAP



Know what's below.
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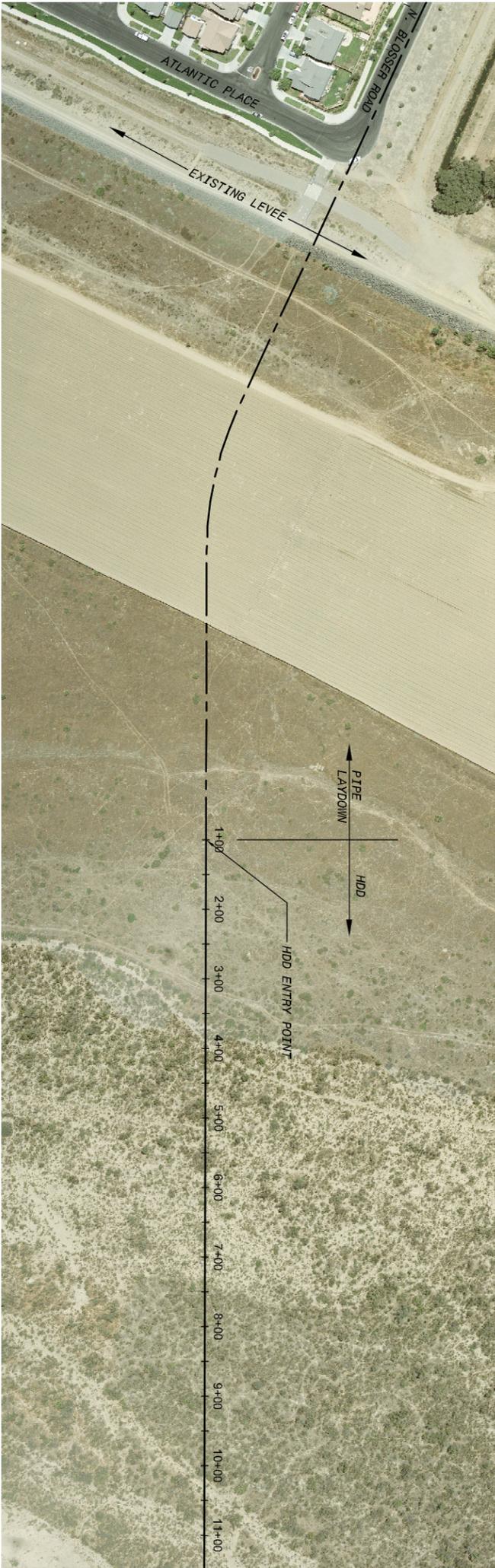
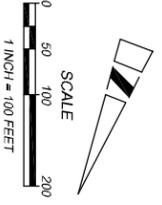
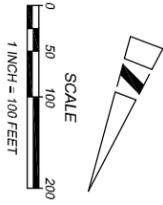


PROJECT	WATERLINE INTERTIE PROJECT - BP1
CLIENT	NIPOMO COMMUNITY SERVICES DISTRICT
APPROVED BY	
DESIGN MANAGER	
PROJECT MANAGER	MICHAEL NUNLEY, PE
DATE	2/2009
ENGINEER OF RECORD	CESAR ROMERO, PE
DATE	2/2009
ACCOUNT NUMBER	60061295
TITLE NUMBER	
SHEET NUMBER	1
OF	10
SHEETS	
AECOM USA, Inc. 5194 Pacific Street, Suite 202 Santa Barbara, CA 93101 T 805.542.9840 F 805.542.9990 www.aecom.com	

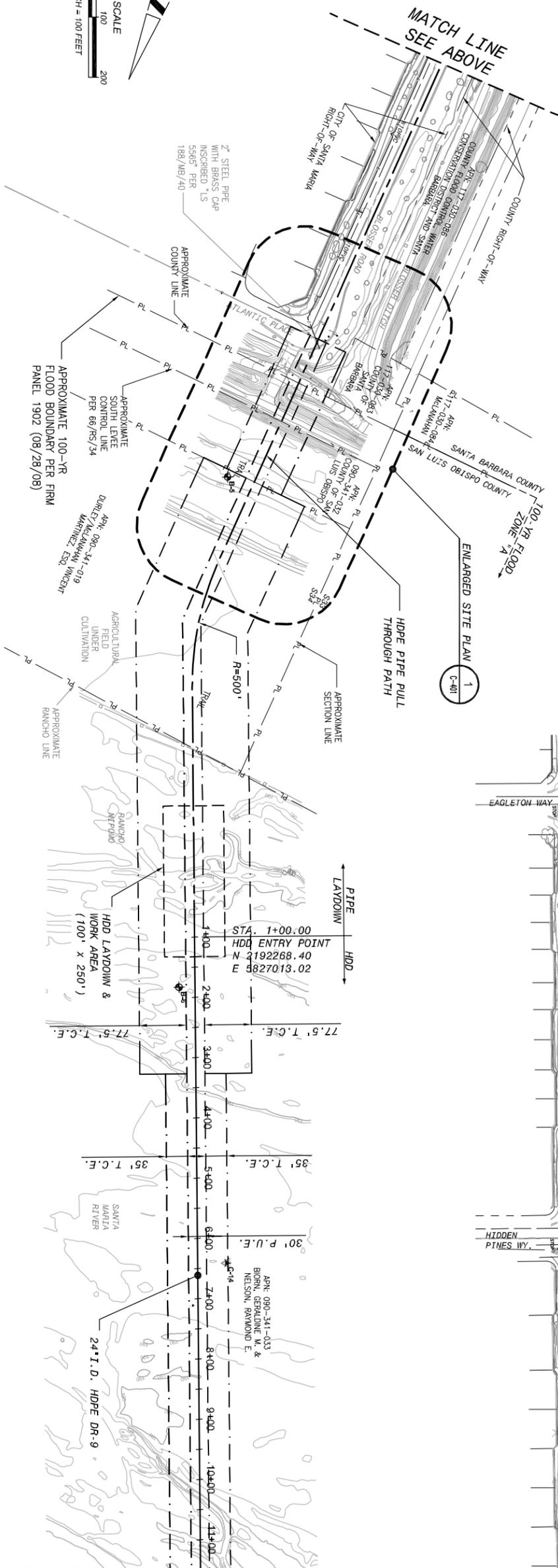
GENERAL NOTE:
 1. SUBSURFACE UTILITY DATA ARE DEPICTED TO LEVEL D AS DEFINED IN "STANDARD GUIDELINE FOR COLLECTION AND DEPICTION OF EXISTING SUBSURFACE UTILITY DATA" C/ASCE 38-02.

LEGEND:

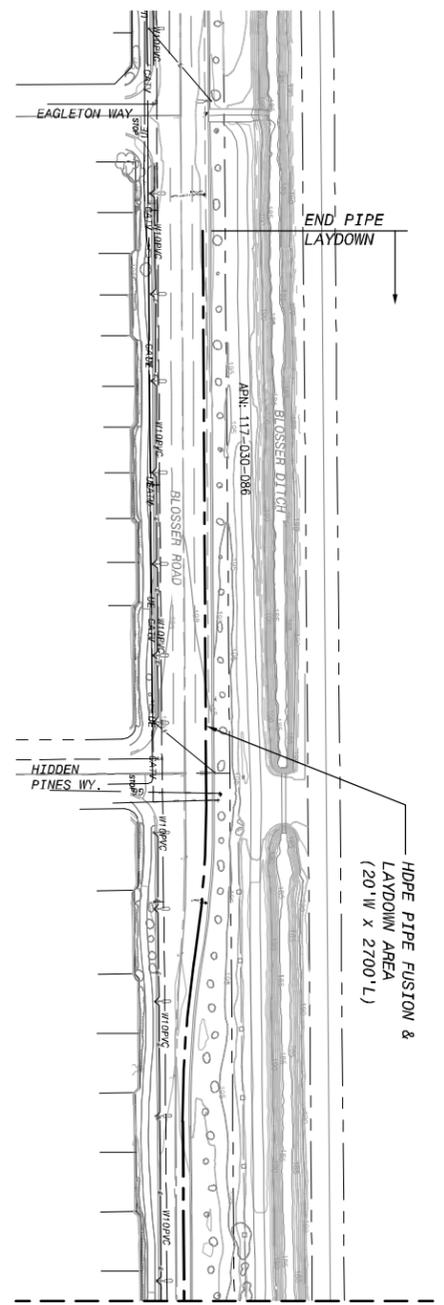
- B-1 SOIL BORING LOCATION AND NUMBER PER PROJECT GEOTECHNICAL REPORT
- C-1 SOIL OPT LOCATION AND NUMBER PER GEOTECHNICAL REPORT



MATCH LINE STA. 11+50
 SEE SHEET C-102



MATCH LINE STA. 11+50
 SEE SHEET C-102



MATCH LINE
 SEE BELOW

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

CADD STDS. BOYLE
DESIGNED: CH
DETAILED: JPF
CHECKED: JPF
APPROVED: JPF
DATE: JUNE 2009
AECOM PROJECT NO. 60061296.0001
NCSO PROJECT NO.

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

SITE PLAN - SOUTH
 STA. 1+00 to STA. 11+50



AECOM

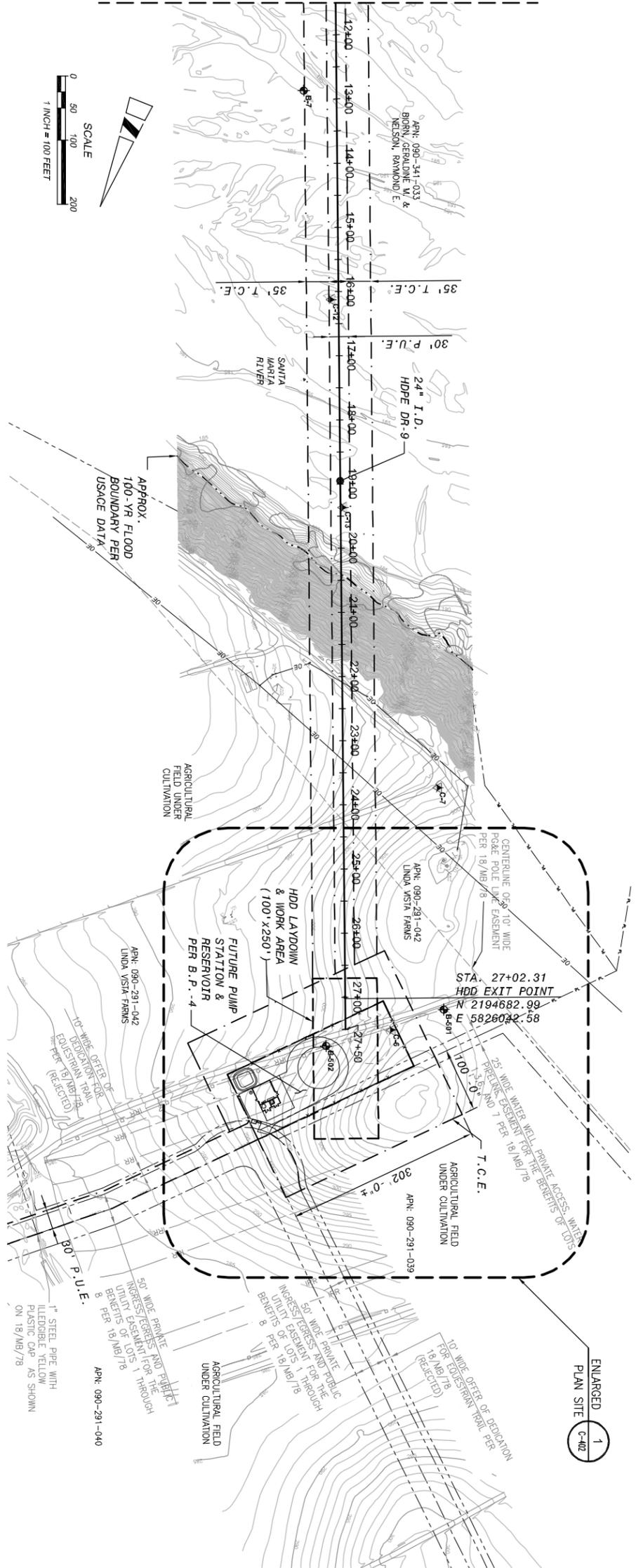
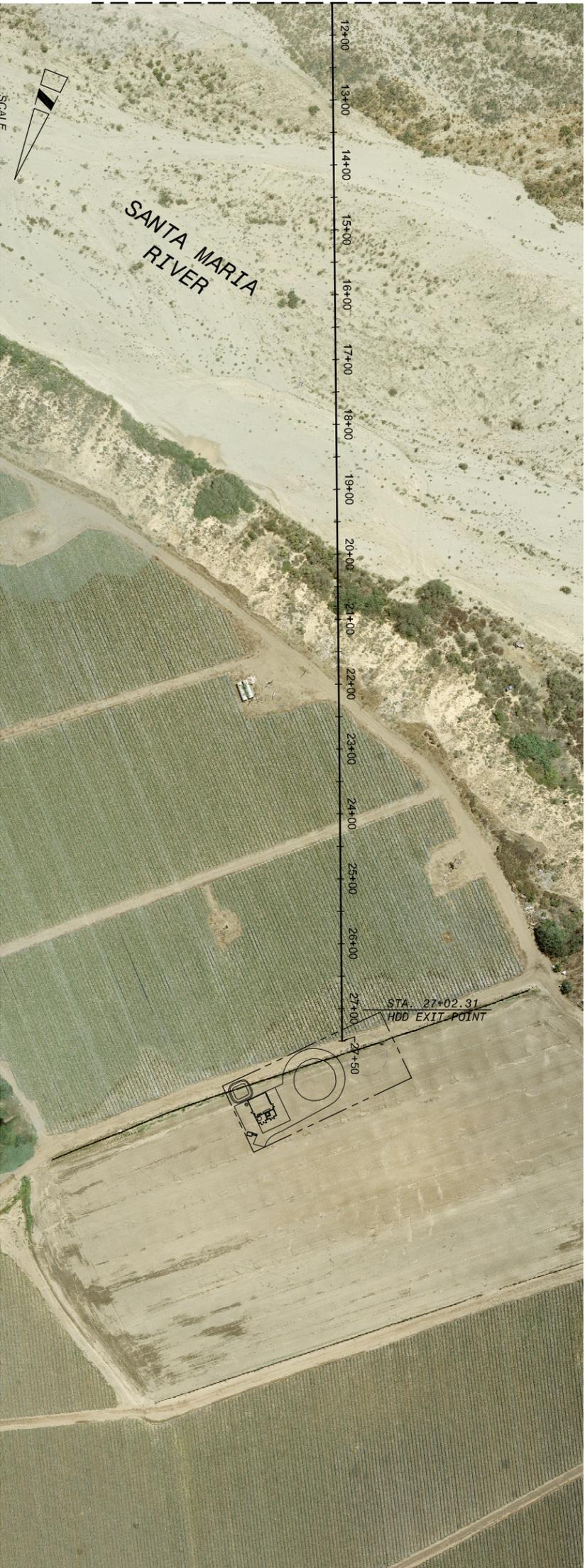
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REV	DATE	DESCRIPTION	REG NUMBER	APPR
1		PROJECT ENGINEER	C69166	EXP DATE
		CESAR ROMERO	C69166	06/30/2010

SEE SHEET C-101
MATCH LINE STA. 11+50

SEE SHEET C-101
MATCH LINE STA. 11+50



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LEGEND:

- B-1 SOIL BORING LOCATION AND NUMBER PER PROJECT GEOTECHNICAL REPORT
- C-1 SOIL CPT LOCATION AND NUMBER PER GEOTECHNICAL REPORT

GENERAL NOTE:
 1. SUBSURFACE UTILITY DATA ARE DEPICTED TO LEVEL D AS DEFINED IN "STANDARD GUIDELINE FOR COLLECTION AND DEPICTION OF EXISTING SUBSURFACE UTILITY DATA" C/ASCE 38-02.



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

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

SITE PLAN - NORTH
STA. 11+50 to STA. 27+50

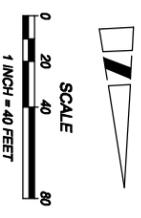
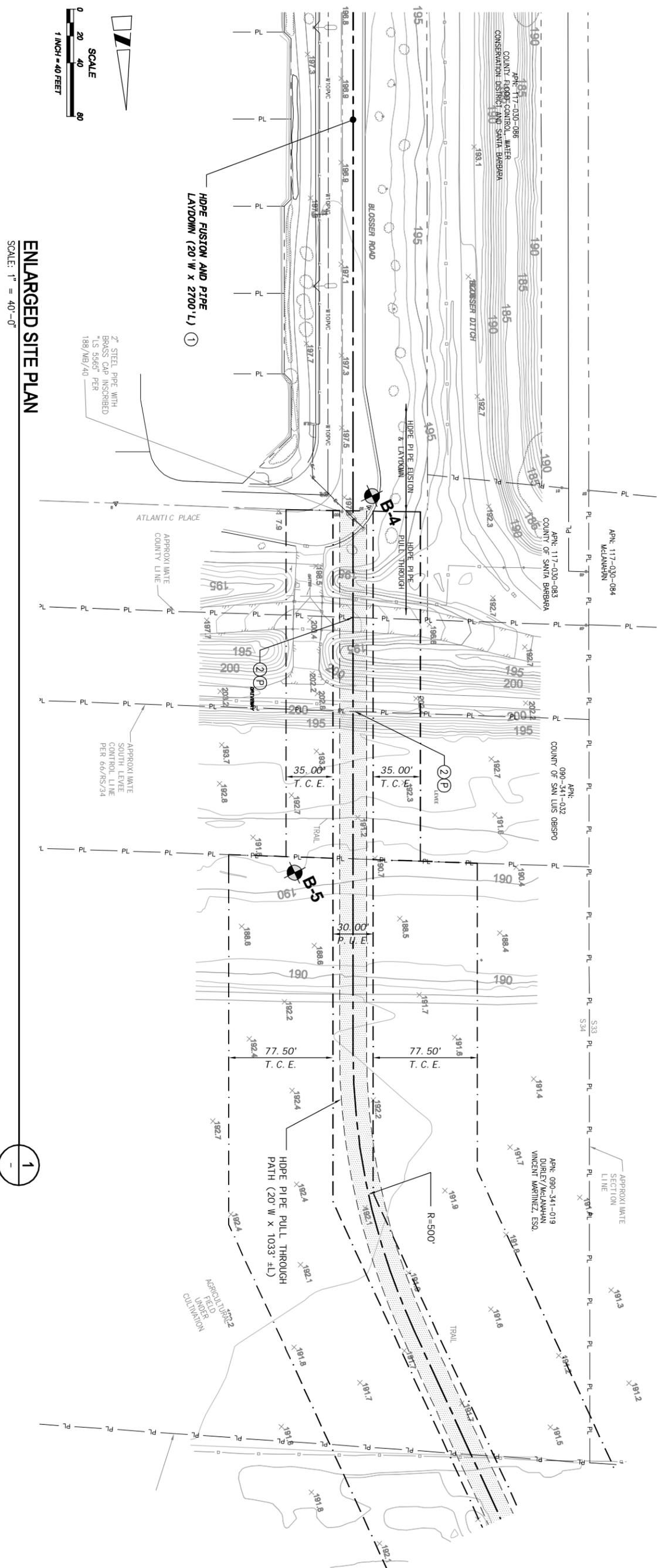


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REV	DATE	DESCRIPTION	APPR
PROJECT ENGINEER		REG NUMBER	EXP DATE
CESAR ROMERO		C69166	06/30/2010

DESIGNED: CS	DATE: JUNE 2009
DETAILED: JPF	ALCOOL PROJECT NO. 69061295.0001
CHECKED:	NCSO PROJECT NO. BOYLE
APPROVED:	CADD STDS.
C-102 SHEET 4 OF 10	



ENLARGED SITE PLAN
 SCALE: 1" = 40'-0"

GENERAL NOTES:

1. SUBSURFACE UTILITY DATA ARE DEPICTED TO LEVEL D AS DEFINED IN "STANDARD GUIDELINE FOR COLLECTION AND DEPICTION OF EXISTING SUBSURFACE UTILITY DATA" CI/ASCE 38-02.
2. SEE SPECIFICATIONS SECTION 0111000 REGARDING COORDINATION OF WORK AND CONSTRAINTS WITH PENDING USAGE LEVEE IMPROVEMENT PROJECT.

LEGEND:

- B-1** SOIL BORING LOCATION AND NUMBER PER PROJECT GEOTECHNICAL REPORT
- C-1** SOIL OPT LOCATION AND NUMBER PER GEOTECHNICAL REPORT

CONSTRUCTION NOTES:

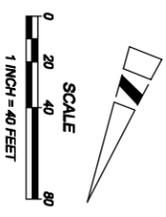
- (P)** PROTECT IN PLACE.
- (1)** HDPE PIPE FUSION AND LAYDOWN SHALL OCCUR ALONG BLOSSER ROAD AS SHOWN.
- (2)** HDPE PIPE SHALL NOT MAKE CONTACT WITH LEVEE SURFACE DURING PIPE PULL THROUGH. LOCATE CRANES AS REQUIRED TO MAINTAIN 20-FOOT MINIMUM CLEARANCE FROM LEVEE SURFACE. DO NOT EXCEED MAXIMUM ALLOWABLE BENDING RADIUS OF HDPE.

60% DESIGN - NOT FOR CONSTRUCTION

Know what's Below.
Call before you dig.

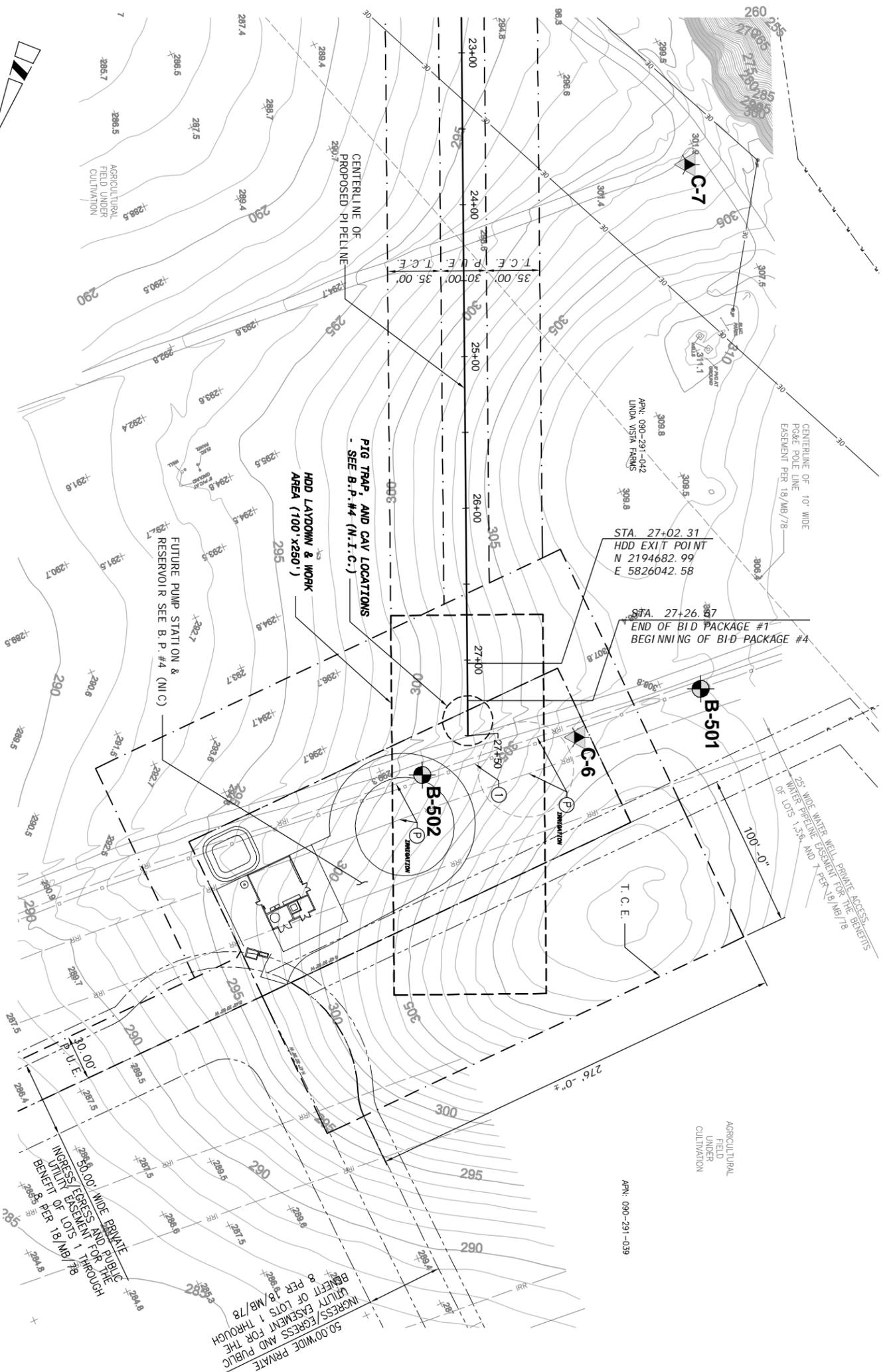
0 1/2 1
 IF THIS BAR DOES NOT MEASURE 1", THEN DRAWING IS NOT TO FULL SCALE

DESIGNED: CJ	NIPOMO COMMUNITY SERVICES DISTRICT WATERLINE INTERLIE PROJECT - BP1 ENLARGED SITE PLAN - SOUTH												
DETAILS: JPF													
CHECKED: JPF													
APPROVED: JPF													
DATE: JUNE 2009													
AECOM PROJECT NO. 60061295.0001													
NCSD PROJECT NO.	<table border="1"> <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> </tbody> </table>	REV	DATE	DESCRIPTION	APPR								
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CADD STDS. BY/LE	<table border="1"> <thead> <tr> <th>PROJECT ENGINEER</th> <th>REG NUMBER</th> <th>EXP DATE</th> </tr> </thead> <tbody> <tr> <td>CESAR ROMERO</td> <td>C69166</td> <td>06/30/2010</td> </tr> </tbody> </table>	PROJECT ENGINEER	REG NUMBER	EXP DATE	CESAR ROMERO	C69166	06/30/2010						
PROJECT ENGINEER	REG NUMBER	EXP DATE											
CESAR ROMERO	C69166	06/30/2010											
C-401 SHEET 6 OF 10													



ENLARGED SITE PLAN
 SCALE: 1" = 40'-0"

1



LEGEND:

- B-1 SOIL BORING LOCATION AND NUMBER PER PROJECT GEOTECHNICAL REPORT
- C-1 SOIL CPT LOCATION AND NUMBER PER GEOTECHNICAL REPORT

GENERAL NOTE:

1. SUBSURFACE UTILITY DATA ARE DEPICTED TO LEVEL D AS DEFINED IN "STANDARD GUIDELINE FOR COLLECTION AND DEPICTION OF EXISTING SUBSURFACE UTILITY DATA" CI/ASCE 38-02.

CONSTRUCTION NOTES:

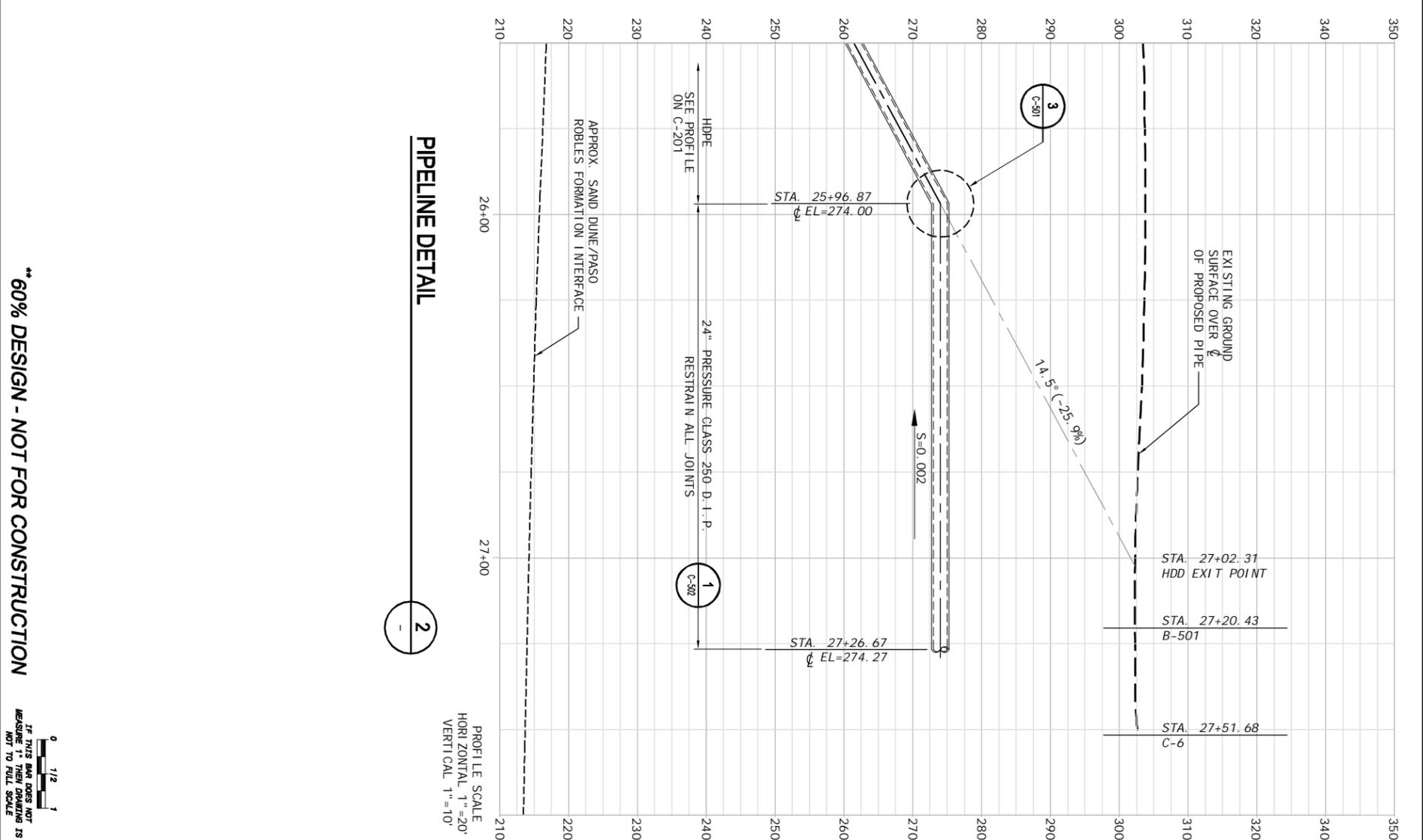
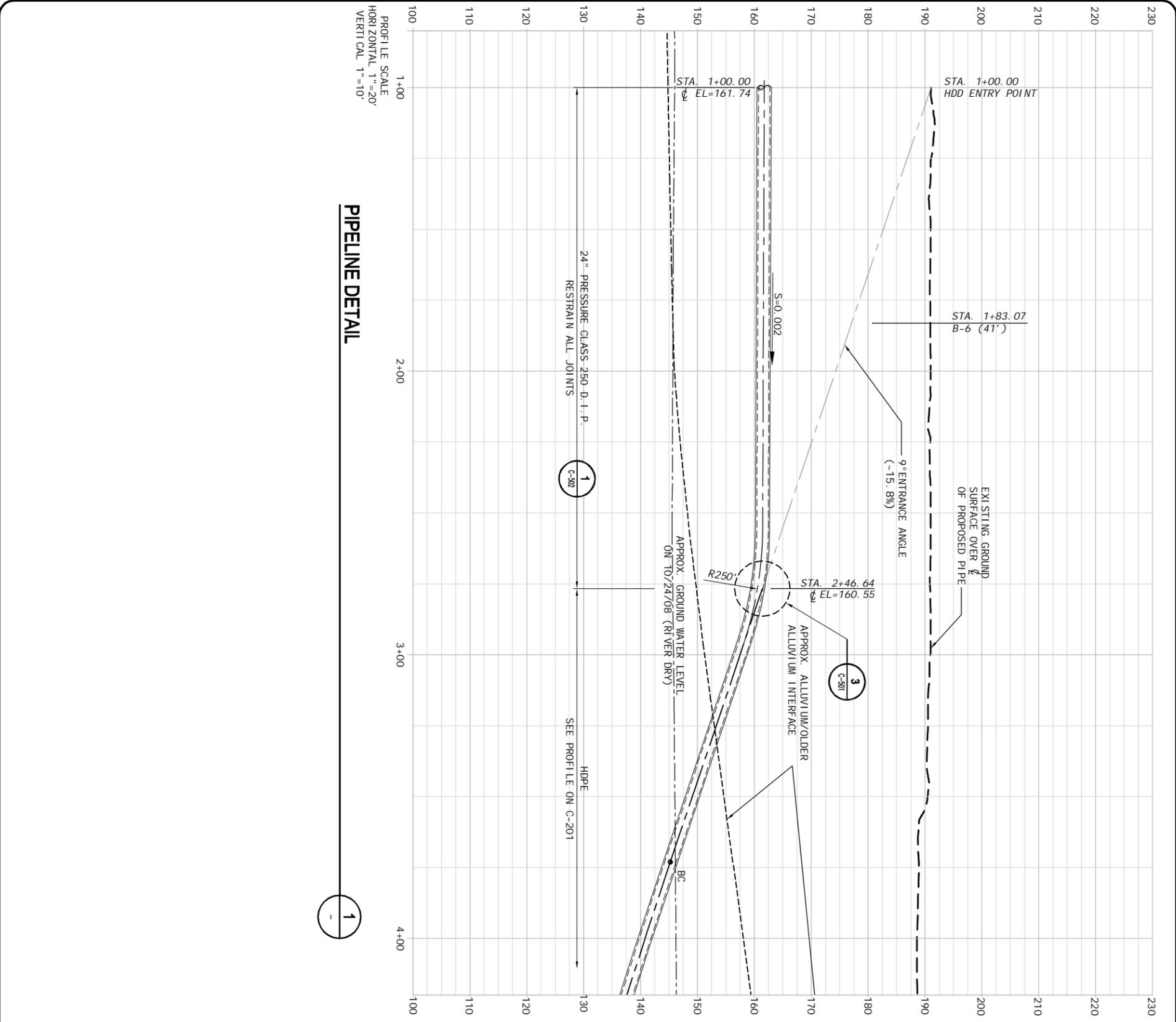
- PROTECT IN PLACE ITEM NOTED.
- REMOVE & REPLACE EXISTING FENCE WITHIN DESIGNATED LANDOWN AND WORK AREA.

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

DESIGNED: CJ	NIPOMO COMMUNITY SERVICES DISTRICT WATERLINE INTERTIE PROJECT - BP1 ENLARGED SITE PLAN - NORTH								
DETAILED: JMF									
CHECKED:									
APPROVED:									
DATE: JUNE 2009									
AECOM PROJECT NO. 60061285.0001	<p>AECOM USA, Inc. 1194 Pacific Street, Suite 204 San Luis Obispo, California 93401 T 805.542.9840 F 805.542.9990 www.aecom.com</p>								
NCSO PROJECT NO.									
CADD STDS.									
BOYLE									
C-402	<table border="1"> <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> </tbody> </table>	REV	DATE	DESCRIPTION	APPR				
REV		DATE	DESCRIPTION	APPR					
SHEET 7 OF 10	<table border="1"> <thead> <tr> <th>PROJECT ENGINEER</th> <th>REG NUMBER</th> <th>EXP DATE</th> </tr> </thead> <tbody> <tr> <td>CESAR ROMERO</td> <td>C69166</td> <td>06/30/2010</td> </tr> </tbody> </table>	PROJECT ENGINEER	REG NUMBER	EXP DATE	CESAR ROMERO	C69166	06/30/2010		
PROJECT ENGINEER	REG NUMBER	EXP DATE							
CESAR ROMERO	C69166	06/30/2010							

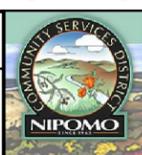


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C-403 SHEET 8 OF 10	CADD STDS. BOYLE
	NCSO PROJECT NO. 00061285.0001
	AECOM PROJECT NO. 00061285.0001
	DATE: JUNE 2009

NIPOMO COMMUNITY SERVICES DISTRICT WATERLINE INTERTIE PROJECT - BP1	
ENLARGED PROFILES	

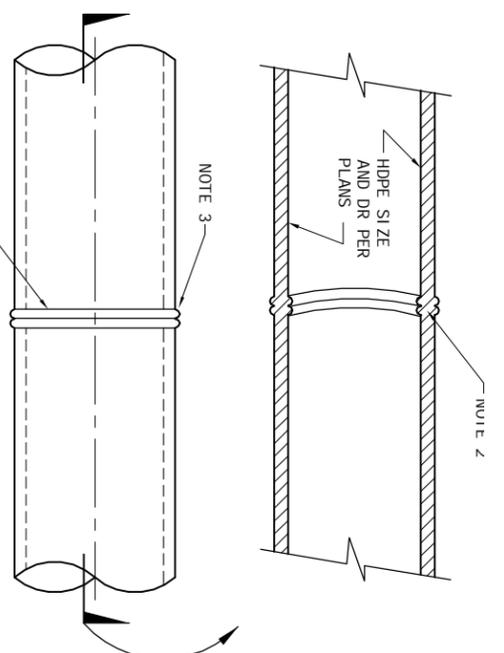
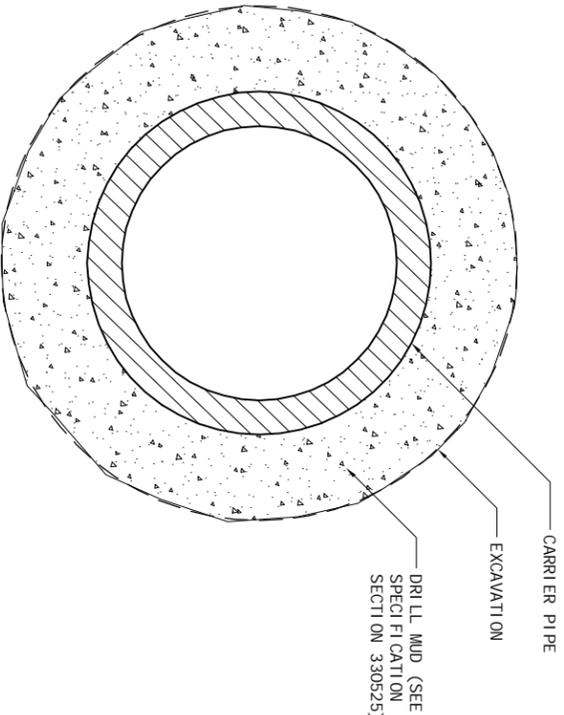
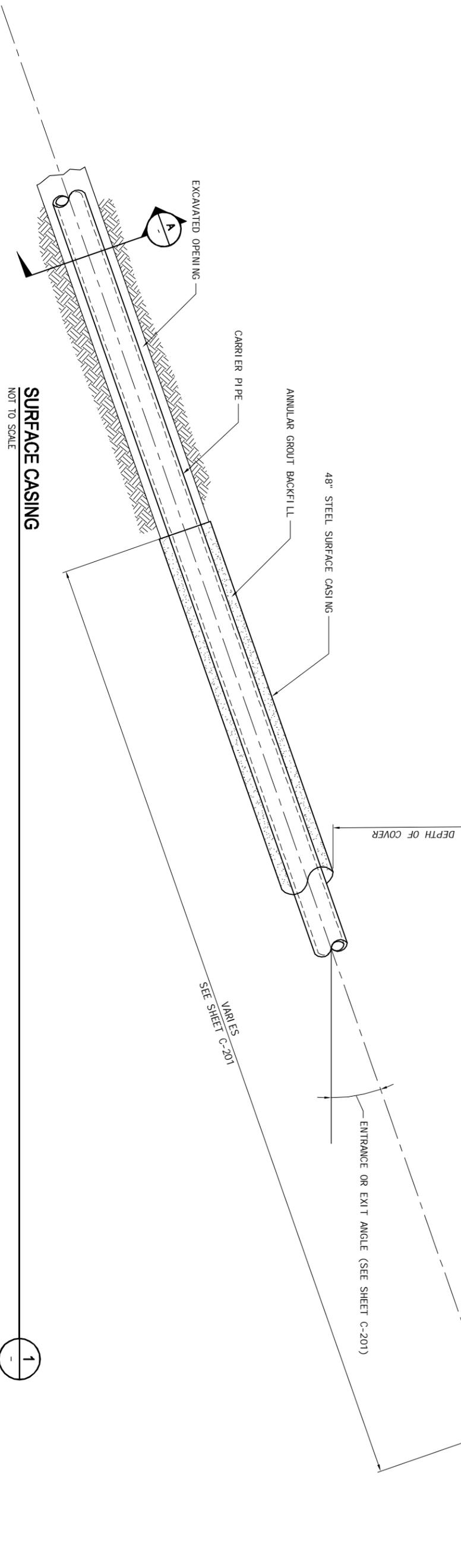
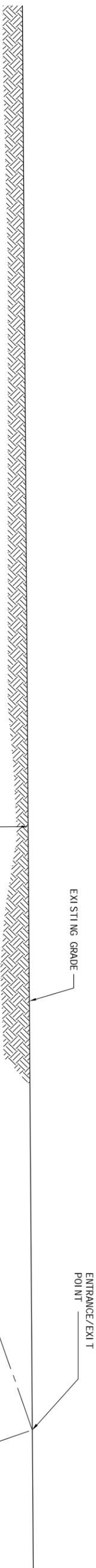


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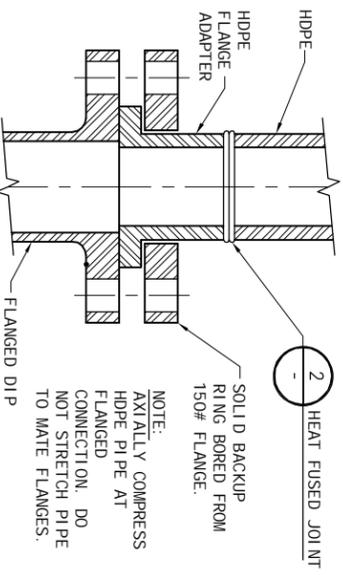
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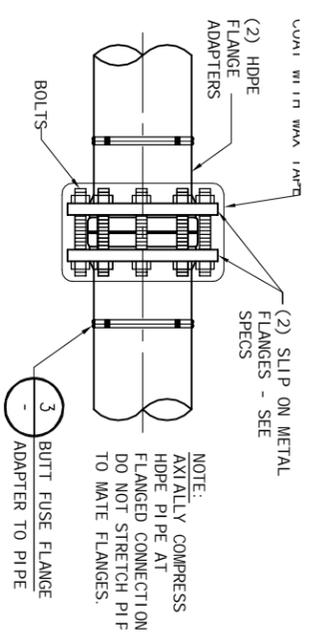
REV	DATE	DESCRIPTION	APPR
PROJECT ENGINEER			
CESAR ROMERO		C69166	06/30/2010



- NOTES:
1. DOUBLE ROLL BACK BEAD PER SECTION 402097.
 2. MELT, PRESSURE AND ALIGNMENT PER SECTION 402097. REMOVE (DEBUR) INTERIOR BEAD FLUSH WITH PIPE SURFACE.
 3. ALIGNMENT-NO GAPS OR VOIDS PER SECTION 402097.



DIP TO HDPE FLANGED CONNECTION DETAIL
 NOT TO SCALE

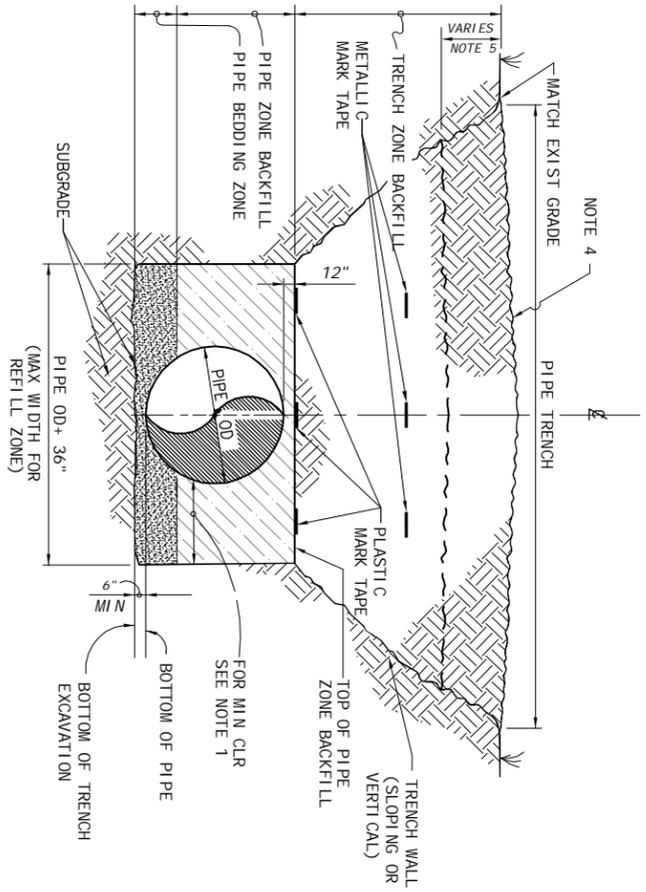


HDPE TO HDPE DETAIL
 NOT TO SCALE

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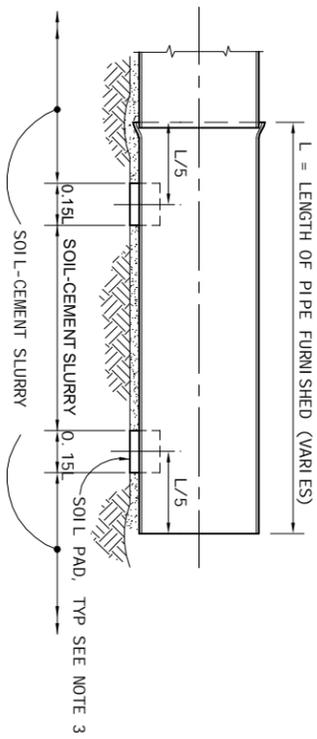


C-501 SHEET 9 OF 10	60% DESIGN - NOT FOR CONSTRUCTION	AECOM AECOM USA, Inc. 1194 Pacific Street, Suite 204 San Luis Obispo, California 93401 T 805.542.9840 F 805.542.9990 www.aecom.com		PROJECT ENGINEER CESAR ROMERO	DESCRIPTION C69166	APPR EXP DATE 06/30/2010
				DATE JUNE 2009	REG NUMBER C69166	REV DATE DESCRIPTION EXP DATE



DEEP TRENCH SECTION
NOT TO SCALE

1



INSTALLATION WITH SOIL PADS
NOT TO SCALE

2

NOTES:

1. MINIMUM CLEARANCE BETWEEN PIPE OD AND TRENCH WALL SHALL BE 18 INCHES FOR COMPACTED PIPE ZONE MATERIAL, AND 12 INCHES FOR SOIL-CEMENT SLURRY.
2. FOR BACKFILL MATERIAL AND COMPACTION REQUIREMENTS SEE SPECIFICATION SECTION 312316.
3. MATERIAL FOR SOIL PADS SHALL BE IMPORTED SAND PER SPECIFICATION SECTION 312316.
4. MOUND BACKFILL ABOVE PIPE, SLOPE TO DRAIN AWAY. RESTORE SURFACE OF IRRIGATED LAND PER SPECIFICATION SECTION _____.
5. REMOVE, STORE SEPARATELY AND RESTORE BIOLOGICALLY ACTIVE TOPSOIL (A HORIZON) FOR CONSTRUCTION ACTIVITIES ON PRIME FARMLAND. SEE SPECIFICATION SECTION 011160.

ELECTROFUSION COUPLING
NOT TO SCALE

3

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C-502 SHEET 10 OF 10	DETAILS - 2		AECOM <small>AECOM USA, Inc. 1194 Pacific Street, Suite 204 San Luis Obispo, California 93401 T 805.542.9840 F 805.542.9990 www.aecom.com</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> </tbody> </table>	REV	DATE	DESCRIPTION	APPR													
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CEGAR ROMERO	C69166		06/30/2010																			