

**APPENDIX C**

**OUTFALL 008 WATERSHED EXCAVATION PLANS**

**APPENDIX C**  
**TABLE OF CONTENTS**

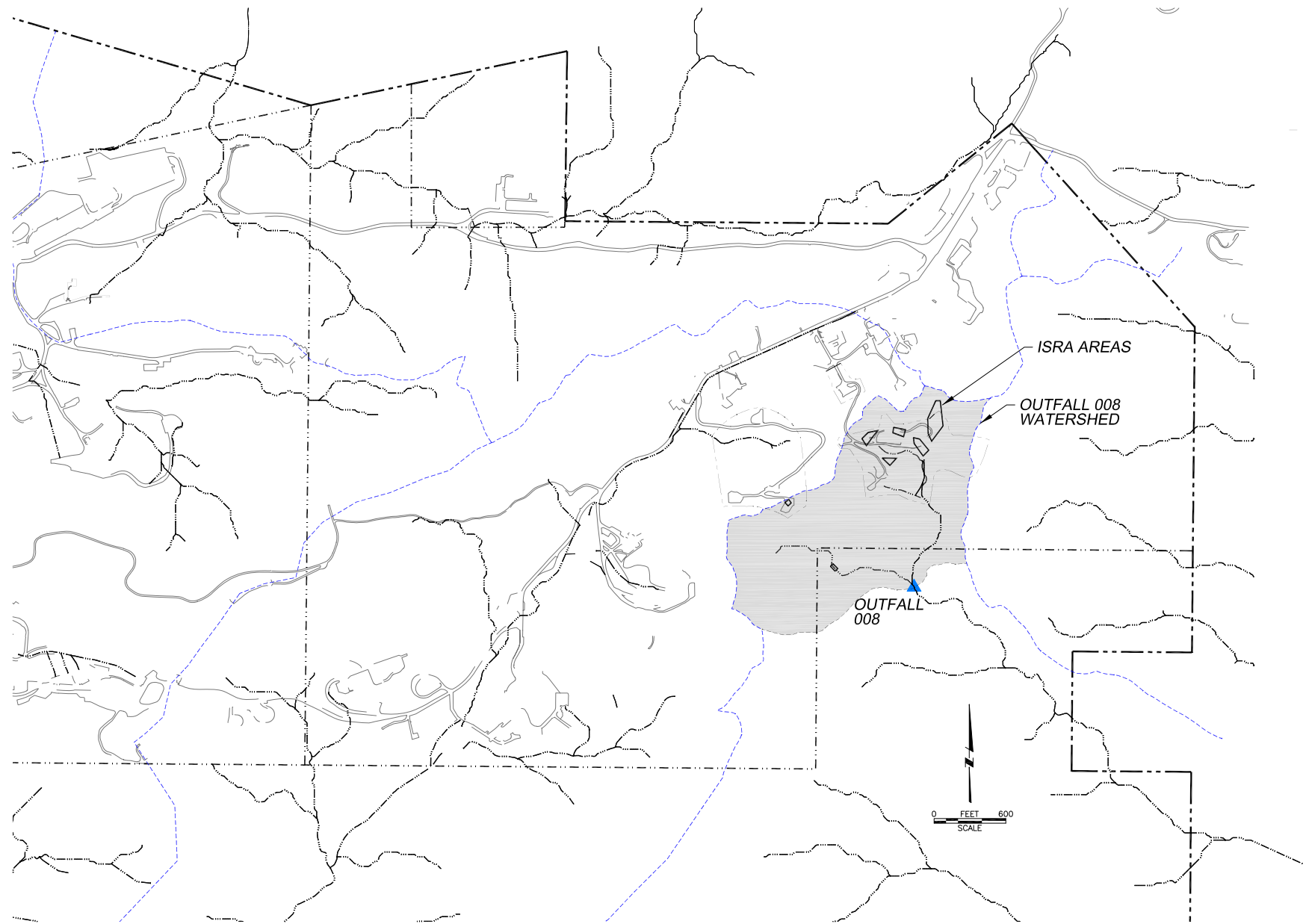
Appendix C	Interim Source Removal Actions – Outfall 8 Watershed Excavation Plans
Drawing No. C-1	Title, Site Location, Legend and General Notes
Drawing No. C-2	Excavation Plans: ISRA-HVS-1, ISRA-HVS-2B, ISRA-HVS-2C & ISRA-HVS-3
Drawing No. C-3	ISRA-HVS-2A
Drawing No. C-4	Excavation Plan: ISRA-CYN-1
Drawing No. C-5	Excavation Plan: ISRA-DRG-1

# INTERIM SOURCE REMOVAL ACTIONS - OUTFALL 008 WATERSHED EXCAVATION PLANS




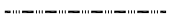



SANTA SUSANA FIELD LABORATORY  
VENTURA COUNTY, CALIFORNIA  
MAY 2009

DATE: APRIL 2009

FILE: \\uswkinetapp1\rrt\Industrial Projects\CAD\_DoSantos\Projects\SSFL-ISRA-Outfall\_008-009\dwg\SSFL-Outfall\_008-ExcavationPlan.dwg



## LEGEND

-  ADMINISTRATIVE AREA BOUNDARY
-  RFI SITE BOUNDARY
-  PREVIOUSLY EXCAVATED AREA
-  SURFACE WATER DRAINAGE
-  SURFACE WATER DIVIDE
-  ELEVATION CONTOUR
-  ISRA AREA EXCAVATION PLAN

## GENERAL NOTES:

1. HORIZONTAL COORDINATES ARE BASED ON NORTH AMERICAN DATUM 1983 (NAD 83).
2. CONTRACTOR SHALL EXCAVATE AREAS INDICATED TO MAXIMUM DEPTHS SPECIFIED ON ATTACHED DRAWINGS OR BEDROCK, WHICHEVER IS SHALLOWER.
3. CONTRACTOR SHALL MANAGE, TRANSPORT, AND DISPOSE OF EXCAVATED SOIL IN ACCORDANCE WITH THE ISRA SOIL MANAGEMENT PLAN.
4. EXCAVATION LIMITS SHOWN ON THE DRAWINGS ARE APPROXIMATE. THE ACTUAL LIMITS MAY VARY AS DIRECTED BY THE OWNER, BASED ON THE RESULTS OF CONFIRMATION SAMPLING.
5. DISTURBED AREAS SHALL EITHER BE RESTORED TO APPROXIMATELY EXISTING GRADES USING IMPORTED CLEAN FILL OR THE AREAS SHALL BE RECONTOURED WITHOUT THE ADDITION OF IMPORTED SOIL, TO ACHIEVE GRADES THAT WILL PREVENT PONDING OF STORMWATER, REDUCE THE POTENTIAL FOR EROSION, AND PROVIDE TOPSOIL SUFFICIENT TO ALLOW REVEGETATION AS DIRECTED BY OWNER.
6. VEGETATION SHALL BE ESTABLISHED IN DISTURBED SOIL AREAS TO MINIMIZE EROSION AS DIRECTED BY THE OWNER.
7. DISTURBED AREAS WILL INCORPORATE BMP'S TO PREVENT SOIL PARTICLES FROM BEING TRANSPORTED FROM THE SITE, AS SPECIFIED IN THE ISRA EROSION CONTROL PLAN.

NOT FOR CONSTRUCTION

REV	DATE	BY	DESCRIPTION

SCALE:	WARNING
AS SHOWN	IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE.

DESIGNED:	SUBMITTED BY
DRAWN:	(PROJECT MANAGER'S NAME) LICENSE NO. EXP. DATE
CHECKED:	(COMPANY OFFICER'S NAME) LICENSE NO. EXP. DATE




SANTA SUSANA FIELD LABORATORY  
VENTURA COUNTY, CALIFORNIA

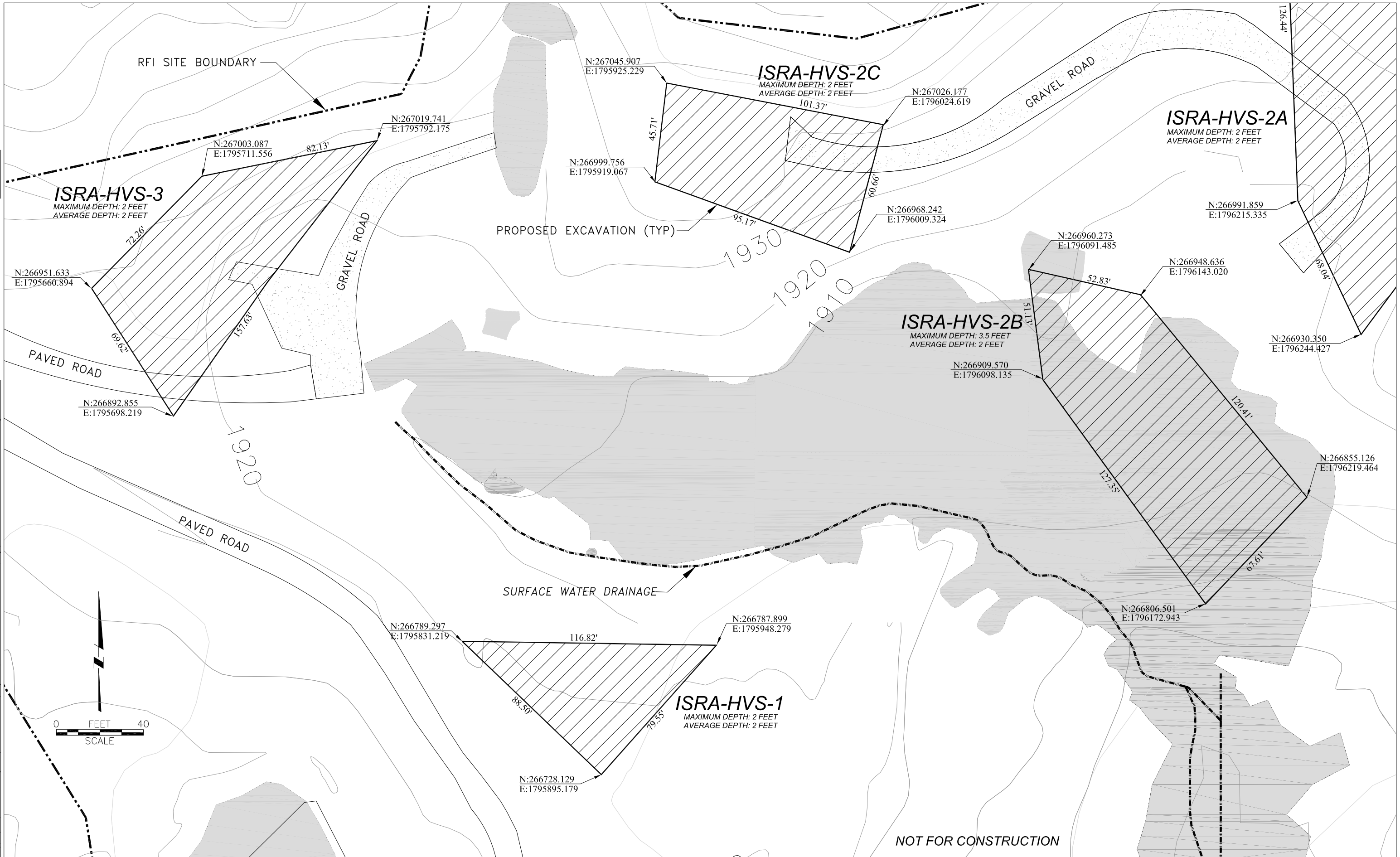
INTERIM SOURCE REMOVAL ACTIONS  
OUTFALL 008 WATERSHED EXCAVATION PLANS

TITLE, SITE LOCATION, LEGEND AND GENERAL NOTES

Project No.  
1891614  
Drawing No.  
C-1  
Sheet No.

DATE: APRIL 2009

FILE: \\uswcknetapp1\rrt\Industrial Projects\CAD\_DosSantos\Projects\SSFL-ISRA-Outfall\_008-009\dwg\SSFL-Outfall\_008-ExcavationPlan.dwg



REV	DATE	BY	DESCRIPTION

SCALE:	WARNING
AS SHOWN	IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE.

DESIGNED	
DRAWN	
CHECKED	

SUBMITTED BY			
(PROJECT MANAGER'S NAME)	LICENSE NO.	EXP. DATE	
(COMPANY OFFICER'S NAME)	LICENSE NO.	EXP. DATE	

**MWH**  
Walnut Creek, California

**SANTA SUSANA FIELD LABORATORY**  
VENTURA COUNTY, CALIFORNIA

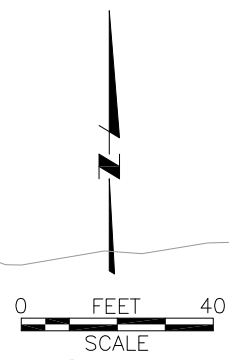
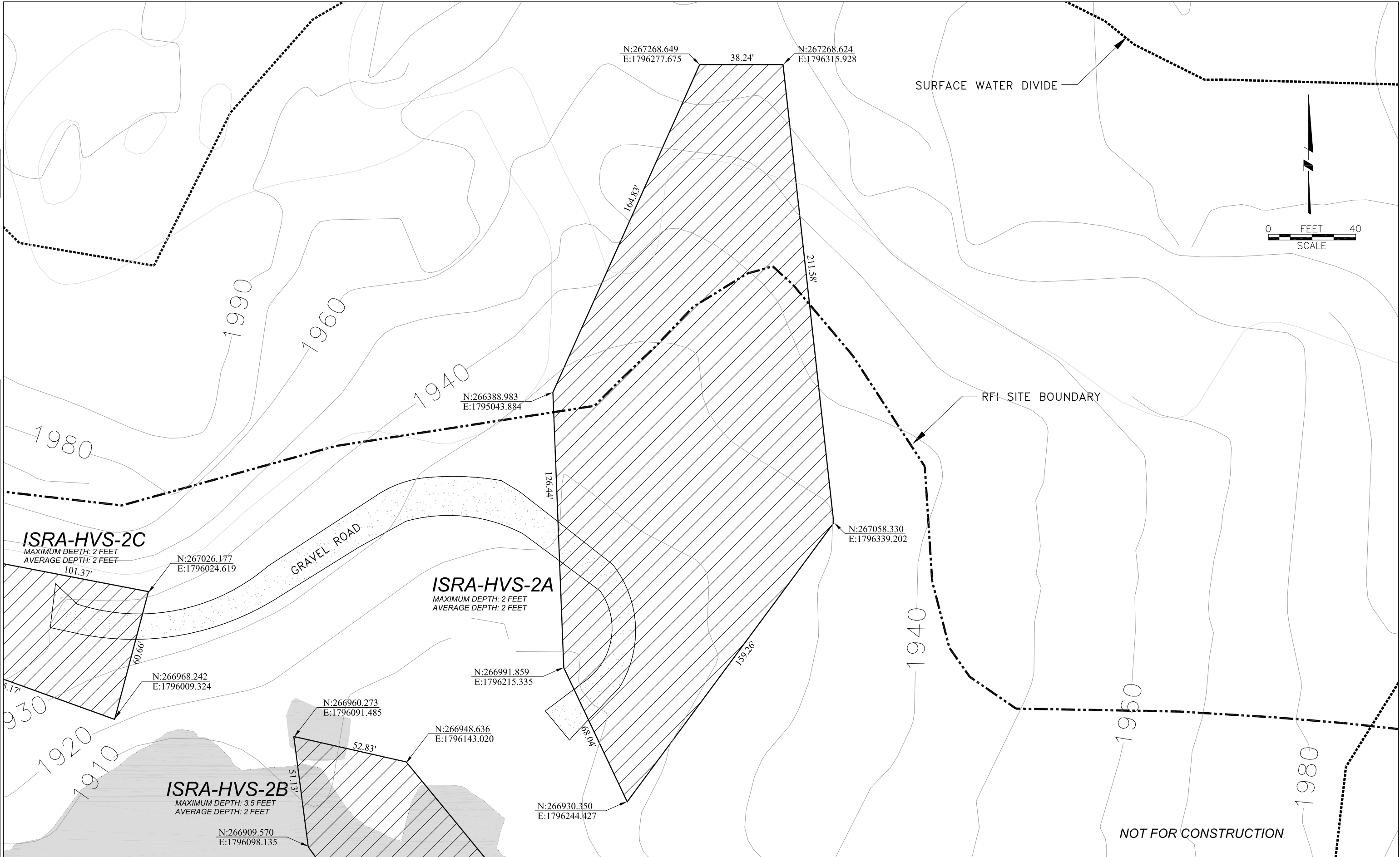
INTERIM SOURCE REMOVAL ACTIONS  
OUTFALL 008 WATERSHED EXCAVATION PLANS

**EXCAVATION PLANS: ISRA-HVS-1, ISRA-HVS-2B,  
ISRA-HVS-2C & ISRA-HVS-3**

Project No. 1891614
Drawing No. C-2
Sheet No.

DATE: APRIL 2009

FILE: \\uswckinetapp1\rrt\Industrial Projects\CAD\_DoSantos\Projects\SSFL-ISRA-Outfall\_008-009\dwg\SSFL-Outfall\_008-ExcavationPlan.dwg



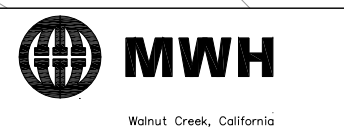
REV	DATE	BY	DESCRIPTION

SCALE: AS SHOWN

WARNING: IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE.

DESIGNED: \_\_\_\_\_  
 DRAWN: \_\_\_\_\_  
 CHECKED: \_\_\_\_\_

SUBMITTED BY: \_\_\_\_\_  
 (PROJECT MANAGER'S NAME) LICENSE NO. EXP. DATE  
 \_\_\_\_\_  
 (COMPANY OFFICER'S NAME) LICENSE NO. EXP. DATE



**SANTA SUSANA FIELD LABORATORY**  
**VENTURA COUNTY, CALIFORNIA**

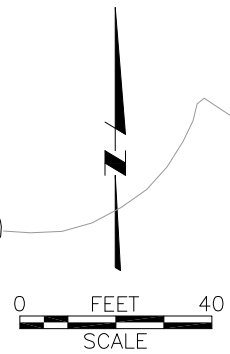
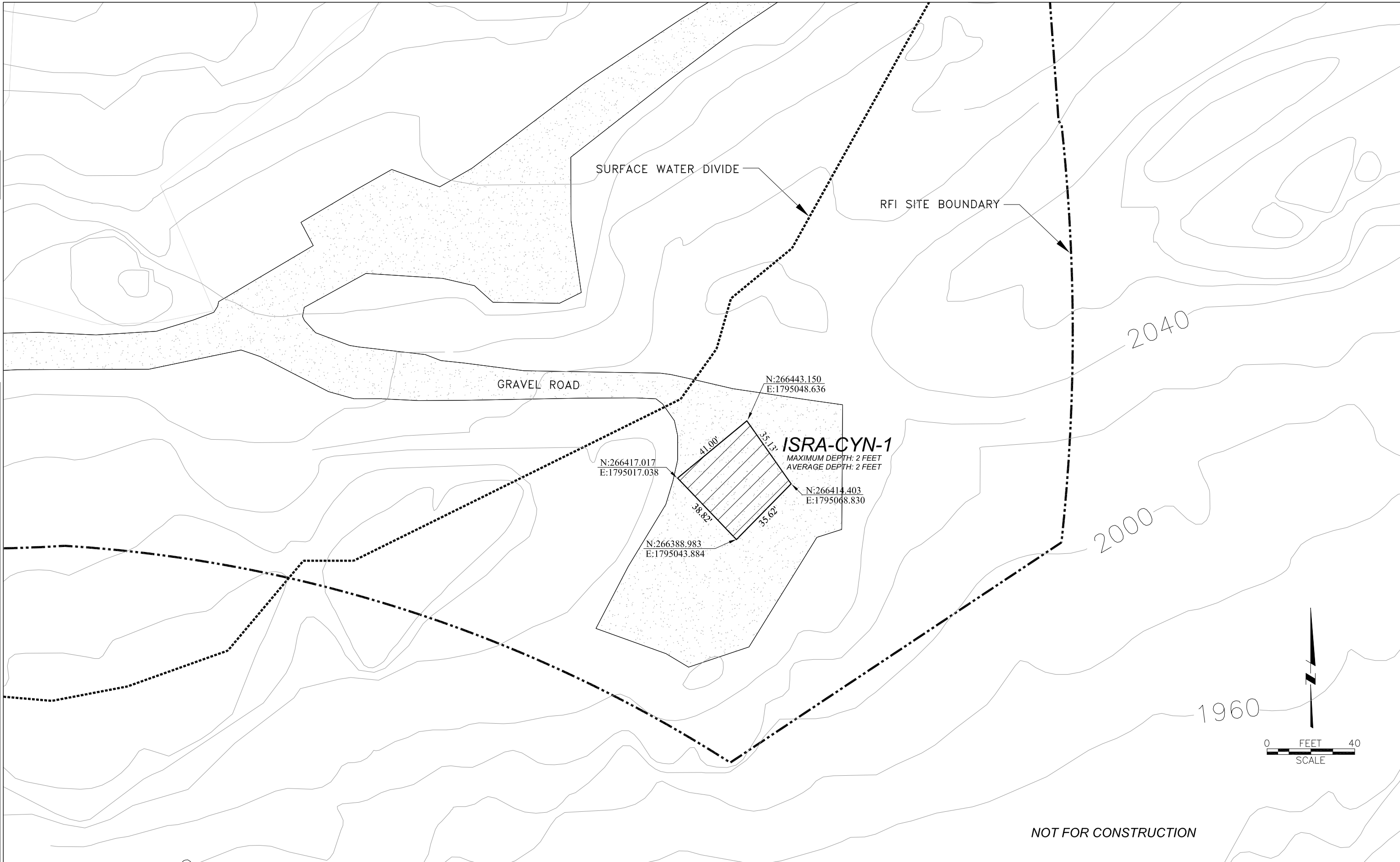
INTERIM SOURCE REMOVAL ACTIONS  
 OUTFALL 008 WATERSHED EXCAVATION PLANS

**EXCAVATION PLAN: ISRA-HVS-2A**

Project No. 1891614  
 Drawing No. C-3  
 Sheet No.

DATE: APRIL 2009

FILE: \\uswkinetapp1\nt\Industrial Projects\CAD\_DoSantos\Projects\SSFL-ISRA-Outfall\_008-009\dwg\SSFL-Outfall\_008-ExcavationPlan.dwg



NOT FOR CONSTRUCTION

REV	DATE	BY	DESCRIPTION

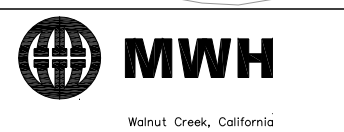
SCALE: AS SHOWN

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

DESIGNED \_\_\_\_\_  
DRAWN \_\_\_\_\_  
CHECKED \_\_\_\_\_

SUBMITTED BY \_\_\_\_\_  
(PROJECT MANAGER'S NAME) LICENSE NO. EXP. DATE

\_\_\_\_\_  
(COMPANY OFFICER'S NAME) LICENSE NO. EXP. DATE



SANTA SUSANA FIELD LABORATORY  
VENTURA COUNTY, CALIFORNIA

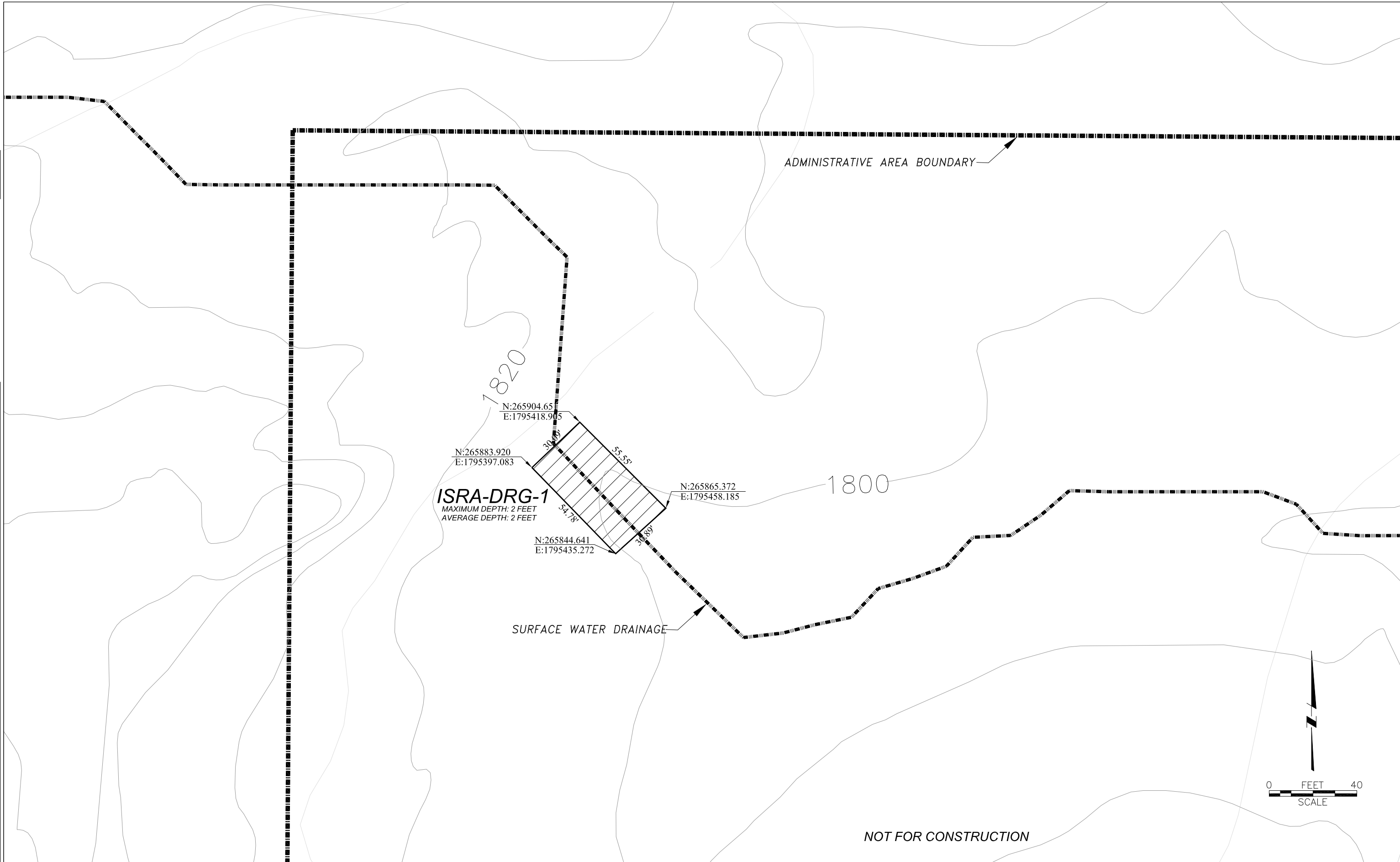
INTERIM SOURCE REMOVAL ACTIONS  
OUTFALL 008 WATERSHED EXCAVATION PLANS

EXCAVATION PLAN: ISRA-CYN-1

Project No. 1891614  
Drawing No. C-4  
Sheet No. \_\_\_\_\_

DATE: APRIL 2009

FILE: \\uswckinetapp1\mnt\Industrial Projects\CAD\_DoSantos\Projects\SSFL-ISRA-Outfall\_008-009\dwg\SSFL-Outfall\_008-ExcavationPlan.dwg

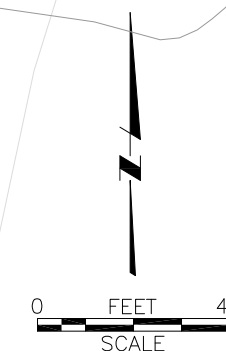


**ISRA-DRG-1**  
 MAXIMUM DEPTH: 2 FEET  
 AVERAGE DEPTH: 2 FEET

ADMINISTRATIVE AREA BOUNDARY

SURFACE WATER DRAINAGE

NOT FOR CONSTRUCTION



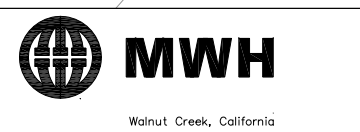
REV	DATE	BY	DESCRIPTION

SCALE:  
AS SHOWN

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

DESIGNED: \_\_\_\_\_  
 DRAWN: \_\_\_\_\_  
 CHECKED: \_\_\_\_\_

SUBMITTED BY  
 (PROJECT MANAGER'S NAME) LICENSE NO. EXP. DATE  
 \_\_\_\_\_  
 (COMPANY OFFICER'S NAME) LICENSE NO. EXP. DATE  
 \_\_\_\_\_



**SANTA SUSANA FIELD LABORATORY**  
**VENTURA COUNTY, CALIFORNIA**

INTERIM SOURCE REMOVAL ACTIONS  
 OUTFALL 008 WATERSHED EXCAVATION PLANS  
**EXCAVATION PLAN: ISRA-DRG-1**

Project No. 1891614  
 Drawing No. C-5  
 Sheet No.

**APPENDIX D**

**OUTFALL 009 WATERSHED EXCAVATION PLANS**



**APPENDIX D**  
**TABLE OF CONTENTS**

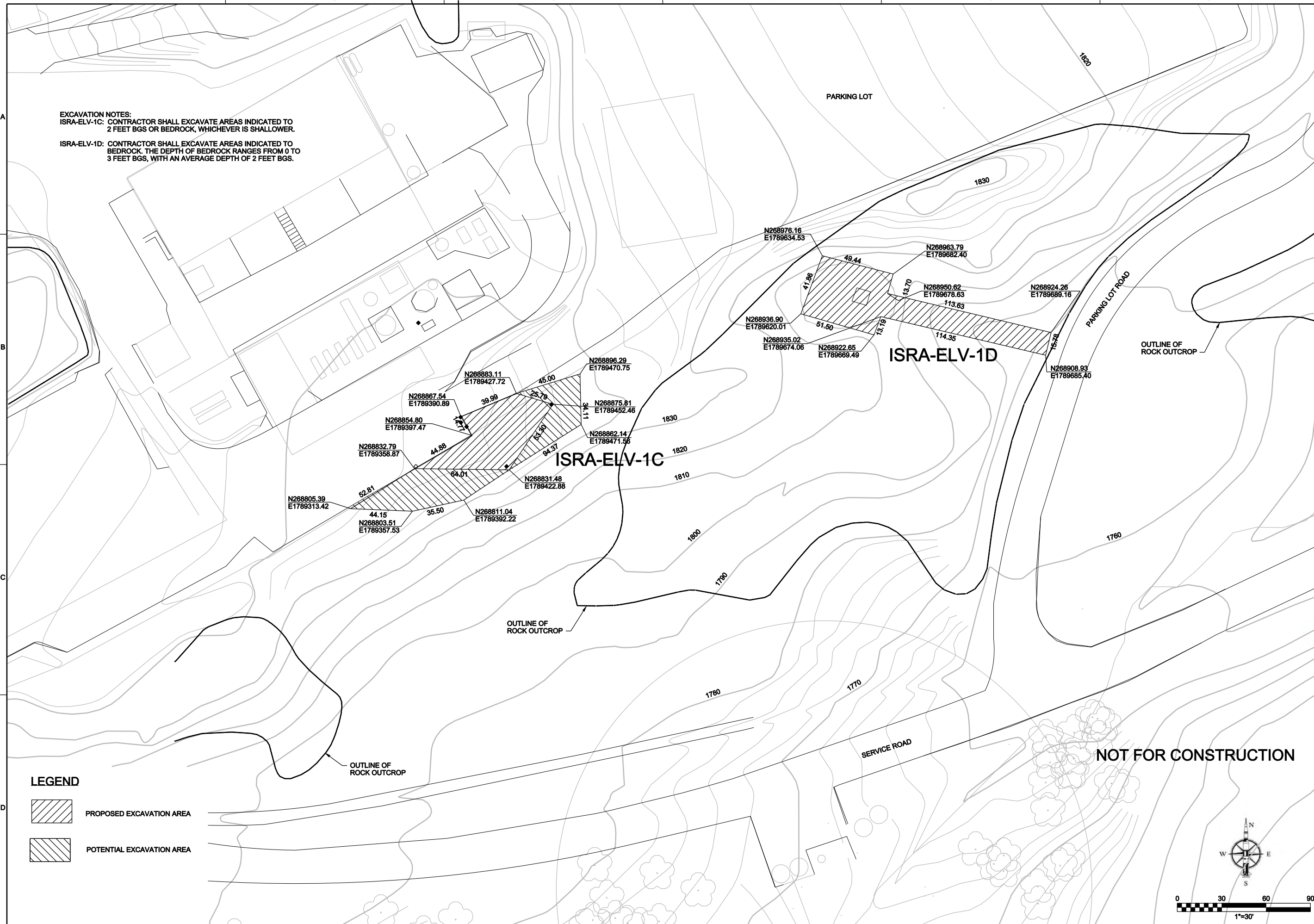
Appendix D	Interim Source Removal Actions – Outfall 009 Watershed Excavation Plans
Drawing No. D-1	Title, site Location, Legend and General Notes
Drawing No. D-2	Excavation Plans: ISRA-ELV-1C & 1D
Drawing No. D-3	Excavation Plan: ISRA-ELV-1C
Drawing No. D-4	Excavation Plan: ISRA-ELV-1D



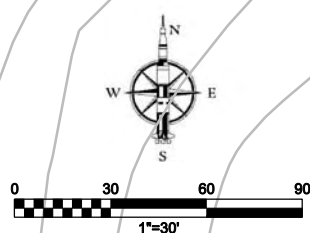
1 2 3 4 5 6

A  
B  
C  
D

**EXCAVATION NOTES:**  
ISRA-ELV-1C: CONTRACTOR SHALL EXCAVATE AREAS INDICATED TO 2 FEET BGS OR BEDROCK, WHICHEVER IS SHALLOWER.  
ISRA-ELV-1D: CONTRACTOR SHALL EXCAVATE AREAS INDICATED TO BEDROCK. THE DEPTH OF BEDROCK RANGES FROM 0 TO 3 FEET BGS, WITH AN AVERAGE DEPTH OF 2 FEET BGS.



**LEGEND**  
[Hatched Box] PROPOSED EXCAVATION AREA  
[Hatched Box] POTENTIAL EXCAVATION AREA



**NOT FOR CONSTRUCTION**

NO.	DATE	DR	CHK	BY	APVD

**CH2MHILL**  
SANTA SUSANA FIELD LABORATORY  
VENTURA COUNTY, CA  
NASA  
HUNTSVILLE, AL

**INTERM SOURCE REMOVAL ACTIONS  
OUTFALL 009  
DRAINAGE AREAS  
EXCAVATION PLANS: ISRA-ELV-1C & 1D**

VERIFY SCALE	
BAR IS ONE INCH ON ORIGINAL DRAWING.	
DATE	04/21/09
PROJ	384727.01
DWG	D-2
SHEET	

PRELIMINARY  
REUSE OF DOCUMENTS: THIS DOCUMENT, AND THE IDEAS AND DESIGNS INCORPORATED HEREIN, AS AN INSTRUMENT OF PROFESSIONAL SERVICE, IS THE PROPERTY OF CH2M HILL AND IS NOT TO BE USED, IN WHOLE OR IN PART, FOR ANY OTHER PROJECT WITHOUT THE WRITTEN AUTHORIZATION OF CH2M HILL. © CH2M HILL 2009. ALL RIGHTS RESERVED.



