

**A  
P  
P  
E  
N  
D  
I  
X  
  
E**

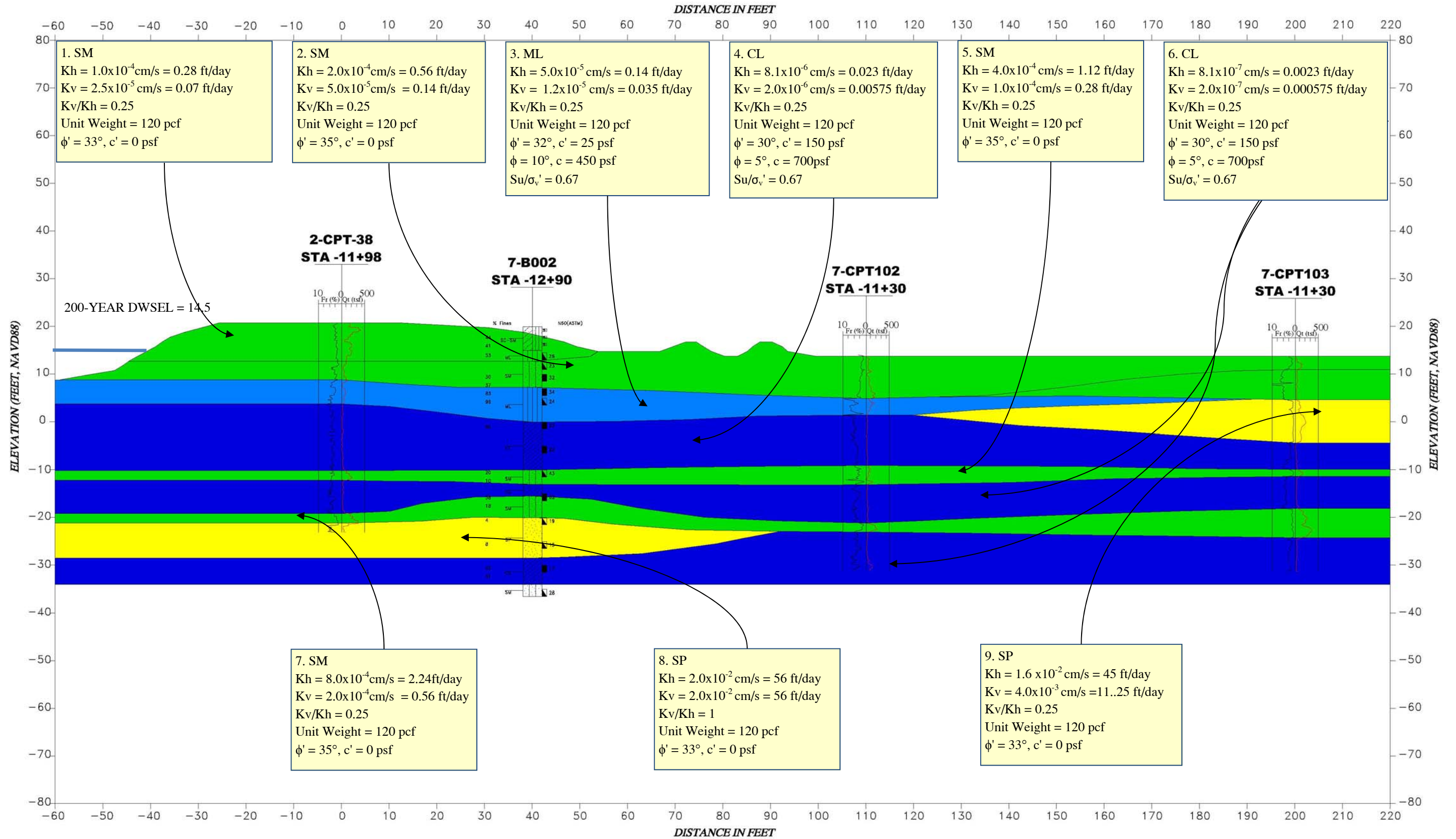
**APPENDIX E**

**Seepage and Slope Stability Analyses**



# WATERSIDE

# LANDSIDE



COPYRIGHT © 2014 BY ENGEO INCORPORATED. THIS DOCUMENT MAY NOT BE REPRODUCED IN WHOLE OR IN PART BY ANY MEANS WHATSOEVER, NOR MAY IT BE QUOTED OR EXCERPTED WITHOUT THE EXPRESS WRITTEN CONSENT OF ENGEO INCORPORATED.



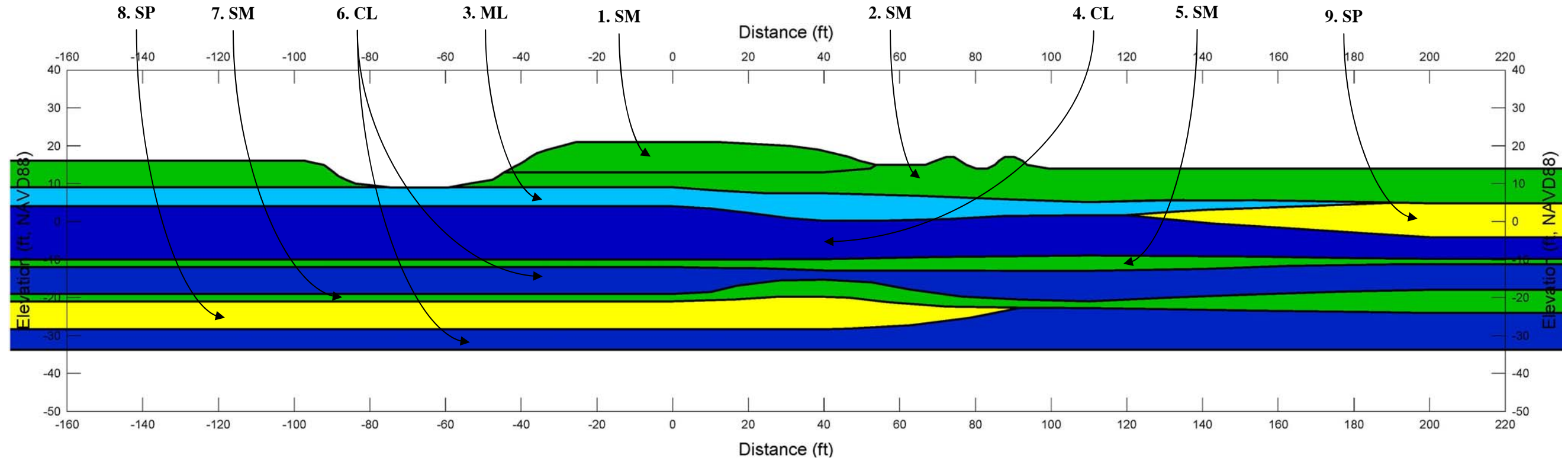
**CROSS SECTION & MATERIAL PARAMETERS**  
 REACH NPL - STA (-)12+00  
 RECLAMATION DISTRICT NO. 17  
 SAN JOAQUIN COUNTY, CALIFORNIA

PROJECT NO.: 5747.005.000	
SCALE: NO SCALE	
DRAWN BY: ZH	CHECKED BY: CC

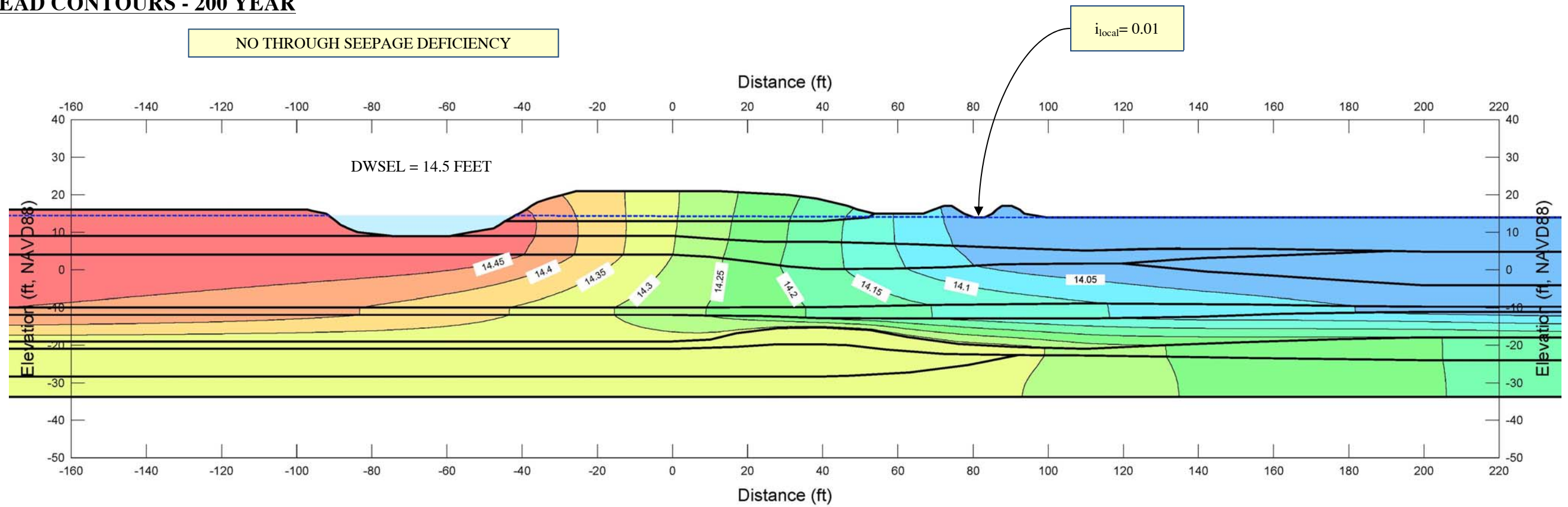
FIGURE NO.  
**E-1-A**

COPYRIGHT © 2014 BY ENGEO INCORPORATED. THIS DOCUMENT MAY NOT BE REPRODUCED IN WHOLE OR IN PART BY ANY MEANS WHATSOEVER, NOR MAY IT BE QUOTED OR EXCERPTED WITHOUT THE EXPRESS WRITTEN CONSENT OF ENGEO INCORPORATED.

### GEOMETRY OF MODEL



### TOTAL HEAD CONTOURS - 200 YEAR



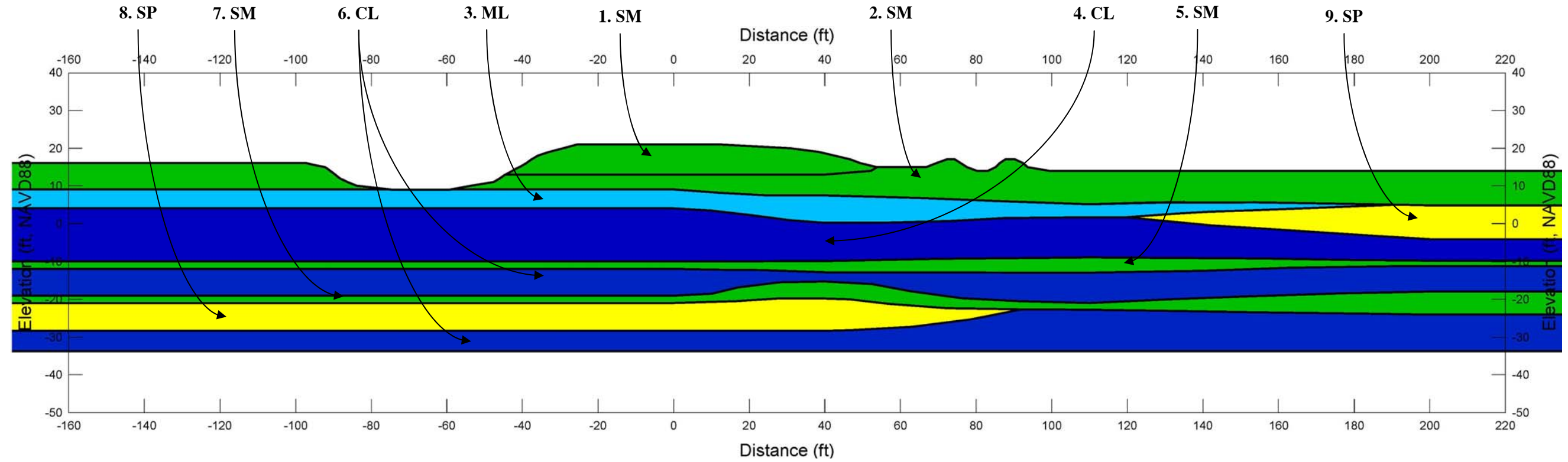
SEEPAGE ANALYSIS  
 REACH NPL - STA (-)12+00  
 RECLAMATION DISTRICT NO. 17  
 SAN JOAQUIN COUNTY, CALIFORNIA

PROJECT NO.: 5747.005.000	
SCALE:	NO SCALE
DRAWN BY:	ZH
CHECKED BY:	CC

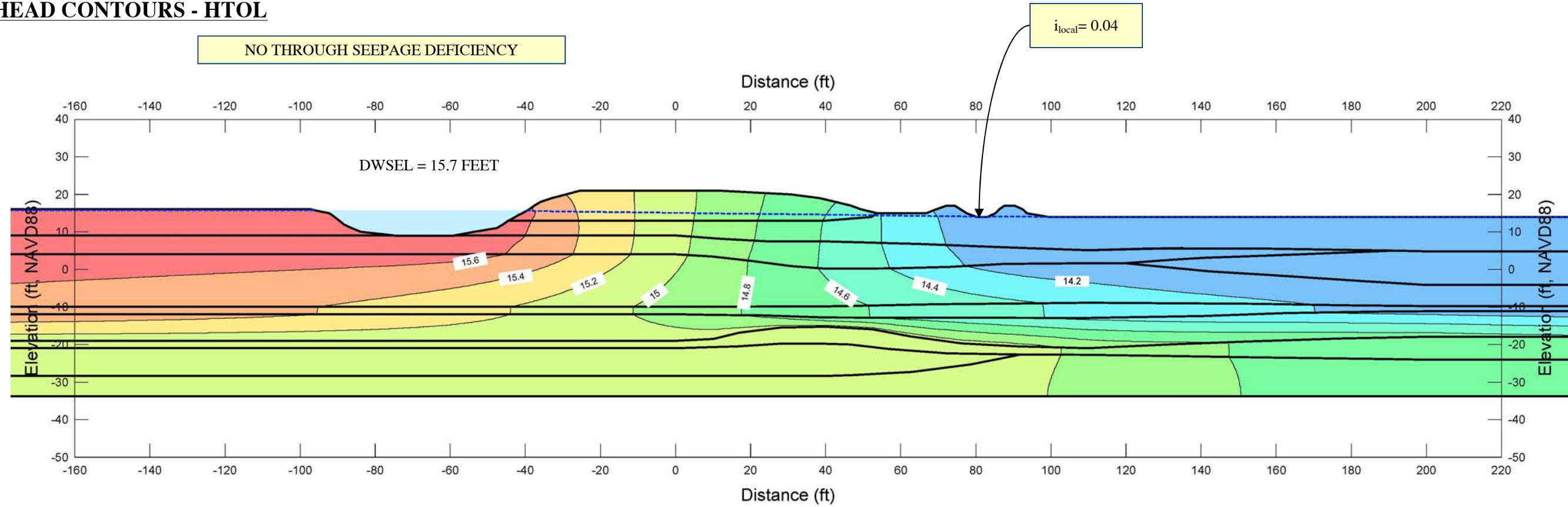
FIGURE NO.  
**E-1-B**

COPYRIGHT © 2014 BY ENGEO INCORPORATED. THIS DOCUMENT MAY NOT BE REPRODUCED IN WHOLE OR IN PART BY ANY MEANS WHATSOEVER, NOR MAY IT BE QUOTED OR EXCERPTED WITHOUT THE EXPRESS WRITTEN CONSENT OF ENGEO INCORPORATED.

### GEOMETRY OF MODEL



### TOTAL HEAD CONTOURS - HTOL



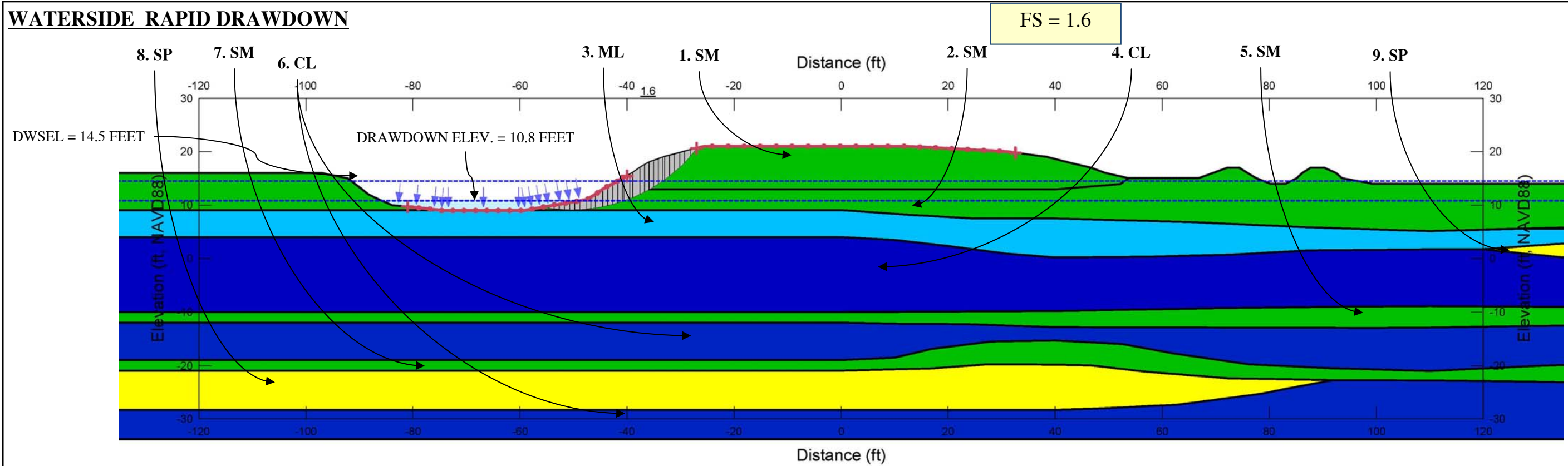
SEEPAGE ANALYSIS  
 REACH NPL - STA (-)12+00  
 RECLAMATION DISTRICT NO. 17  
 SAN JOAQUIN COUNTY, CALIFORNIA

PROJECT NO.: 5747.005.000	
SCALE: NO SCALE	
DRAWN BY: ZH	CHECKED BY: CC

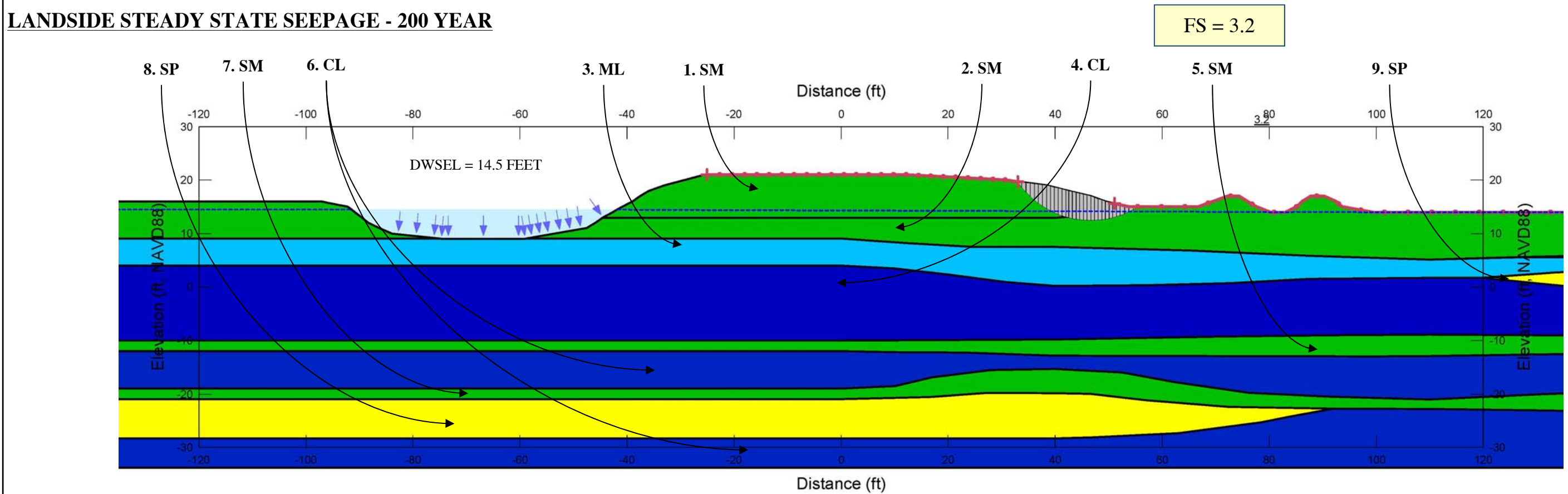
FIGURE NO.  
**E-1-C**

COPYRIGHT © 2014 BY ENGEO INCORPORATED. THIS DOCUMENT MAY NOT BE REPRODUCED IN WHOLE OR IN PART BY ANY MEANS WHATSOEVER, NOR MAY IT BE QUOTED OR EXCERPTED WITHOUT THE EXPRESS WRITTEN CONSENT OF ENGEO INCORPORATED.

### WATERSIDE RAPID DRAWDOWN



### LANDSIDE STEADY STATE SEEPAGE - 200 YEAR

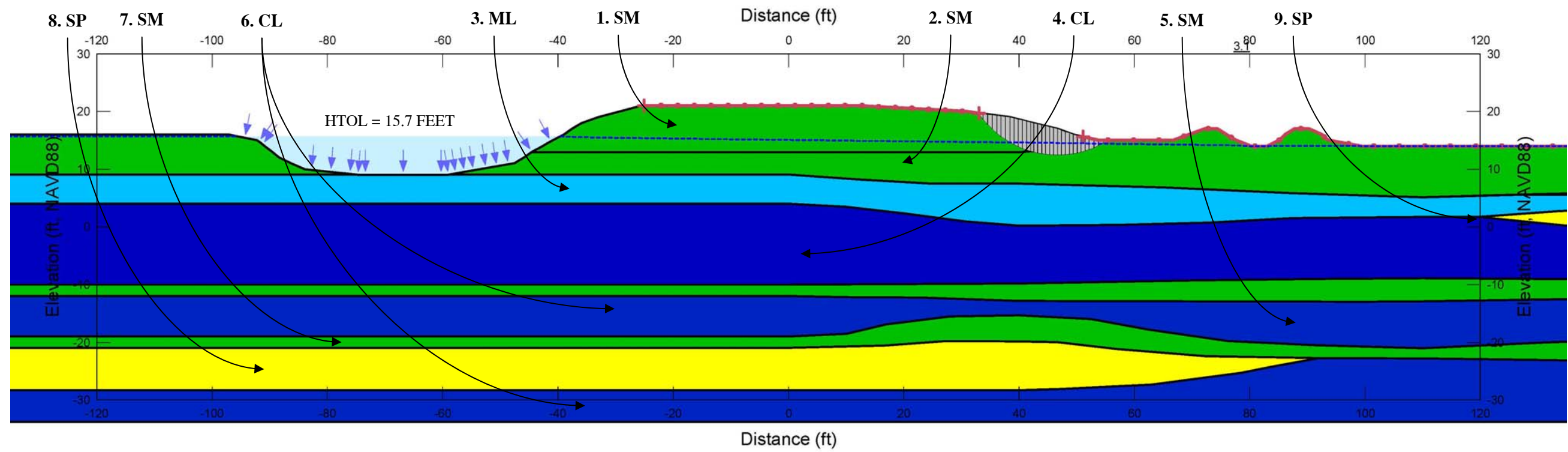


	STATIC SLOPE STABILITY ANALYSIS REACH NPL - STA (-)12+00 RECLAMATION DISTRICT NO. 17 SAN JOAQUIN COUNTY, CALIFORNIA		PROJECT NO.: 5747.005.000	FIGURE NO. <b>E-1-D</b>
			SCALE: NO SCALE	
			DRAWN BY: ZH    CHECKED BY: CC	

COPYRIGHT © 2014 BY ENGEO INCORPORATED. THIS DOCUMENT MAY NOT BE REPRODUCED IN WHOLE OR IN PART BY ANY MEANS WHATSOEVER WITHOUT THE EXPRESS WRITTEN CONSENT OF ENGEO INCORPORATED.

# LANDSIDE STEADY STATE SEEPAGE - HTOL

FS = 3.1



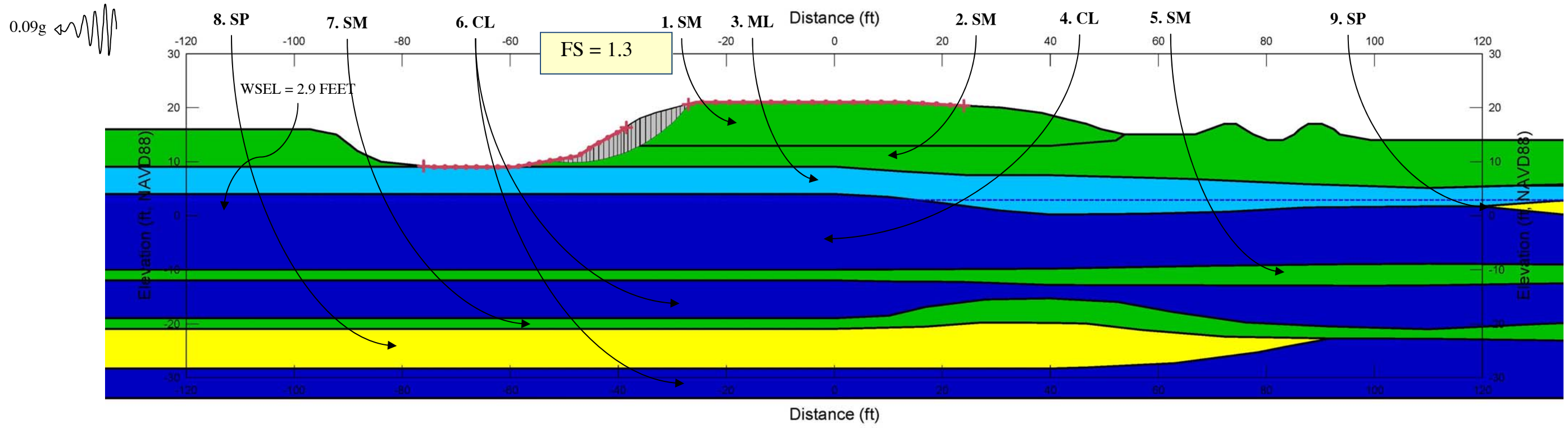
STATIC SLOPE STABILITY ANALYSIS  
 REACH NPL - STA (-)12+00  
 RECLAMATION DISTRICT NO. 17  
 SAN JOAQUIN COUNTY, CALIFORNIA

PROJECT NO.: 5747.005.000	
SCALE:	NO SCALE
DRAWN BY:	ZH
CHECKED BY:	CC

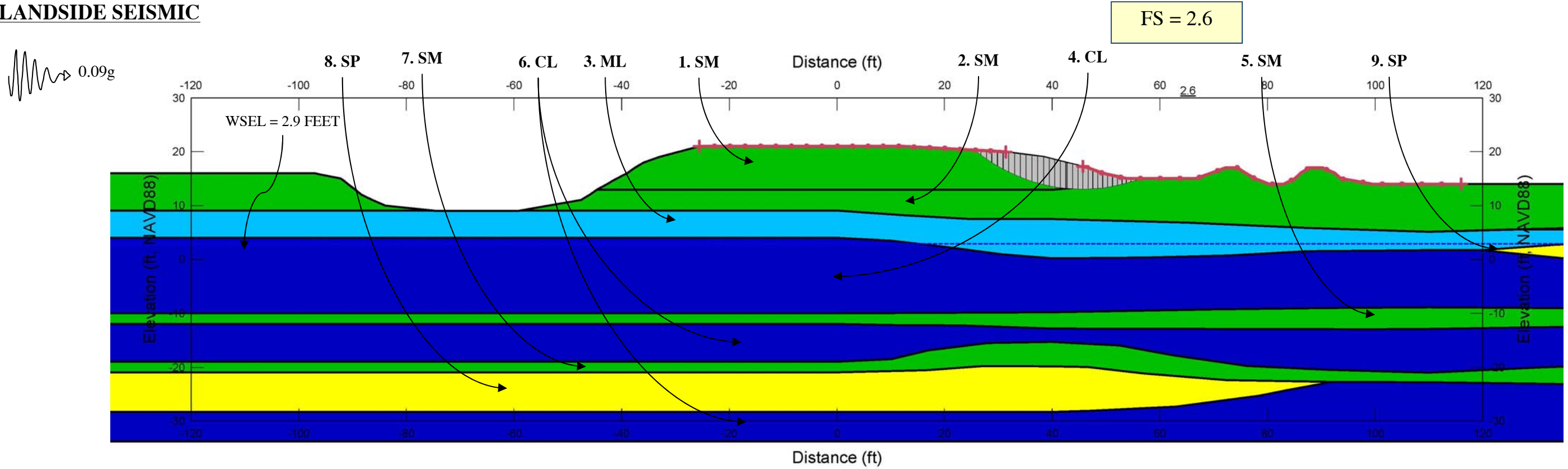
FIGURE NO.  
**E-1-E**

COPYRIGHT © 2014 BY ENGEO INCORPORATED. THIS DOCUMENT MAY NOT BE REPRODUCED IN WHOLE OR IN PART BY ANY MEANS WHATSOEVER, NOR MAY IT BE QUOTED OR EXCERPTED WITHOUT THE EXPRESS WRITTEN CONSENT OF ENGEO INCORPORATED.

### WATERSIDE SEISMIC



### LANDSIDE SEISMIC



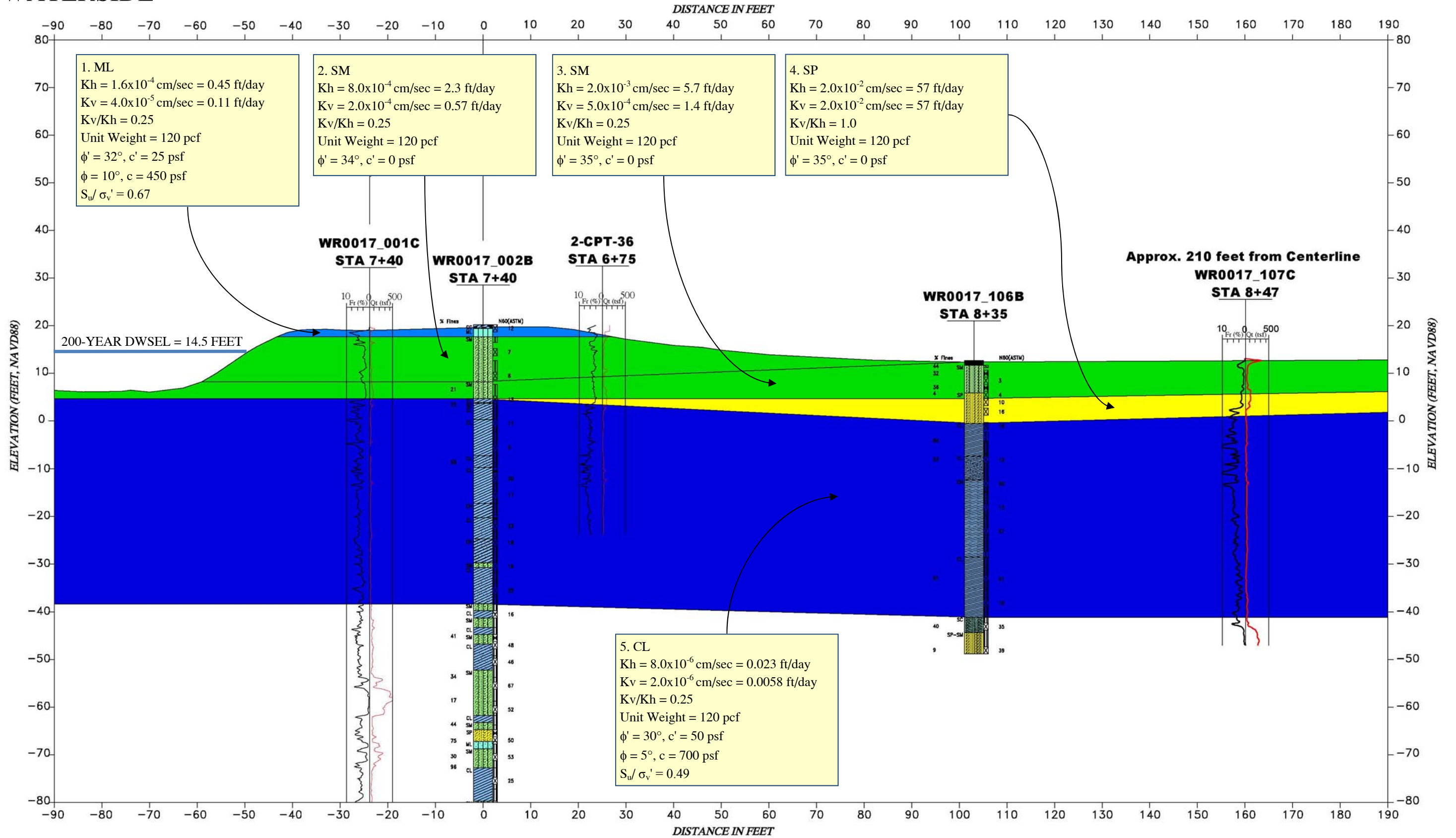
SEISMIC SLOPE STABILITY ANALYSIS  
 REACH NPL - STA (-)12+00  
 RECLAMATION DISTRICT NO. 17  
 SAN JOAQUIN COUNTY, CALIFORNIA

PROJECT NO.: 5747.005.000	
SCALE:	NO SCALE
DRAWN BY:	ZH
CHECKED BY:	CC

FIGURE NO.  
**E-1-F**

# WATERSIDE

# LANDSIDE



COPYRIGHT © 2014 BY ENGEO INCORPORATED. THIS DOCUMENT MAY NOT BE REPRODUCED IN WHOLE OR IN PART BY ANY MEANS WHATSOEVER, NOR MAY IT BE QUOTED OR EXCERPTED WITHOUT THE EXPRESS WRITTEN CONSENT OF ENGEO INCORPORATED.



CROSS SECTION & MATERIAL PARAMETERS  
 REACH A1 - STA 7+56  
 RECLAMATION DISTRICT 17  
 SAN JOAQUIN COUNTY, CALIFORNIA

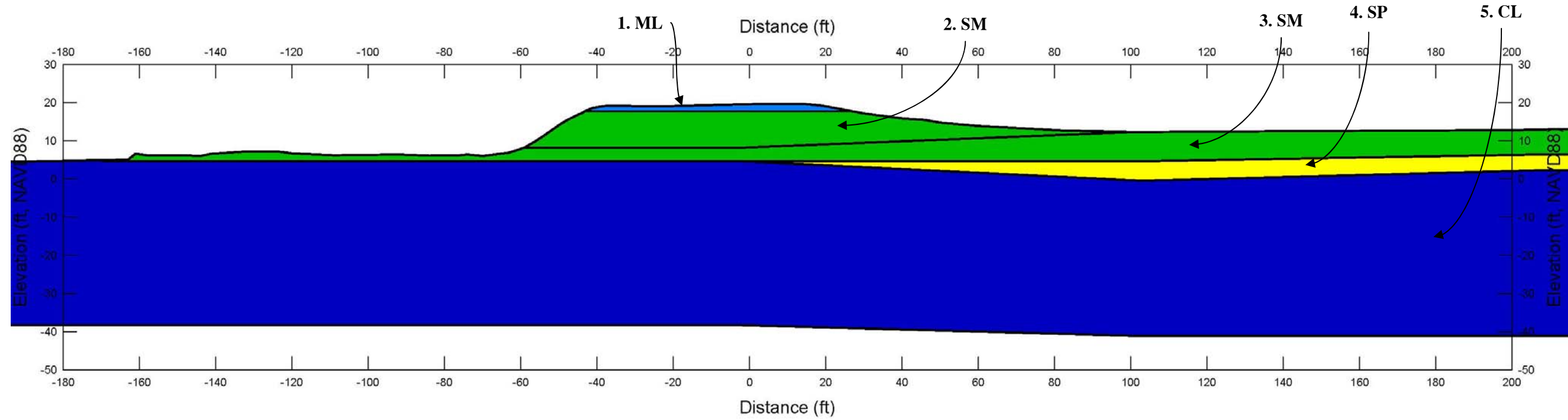
PROJECT NO.: 5747.005.000  
 SCALE: NO SCALE  
 DRAWN BY: BA  
 CHECKED BY: NS

FIGURE NO.  
**E-2-A**

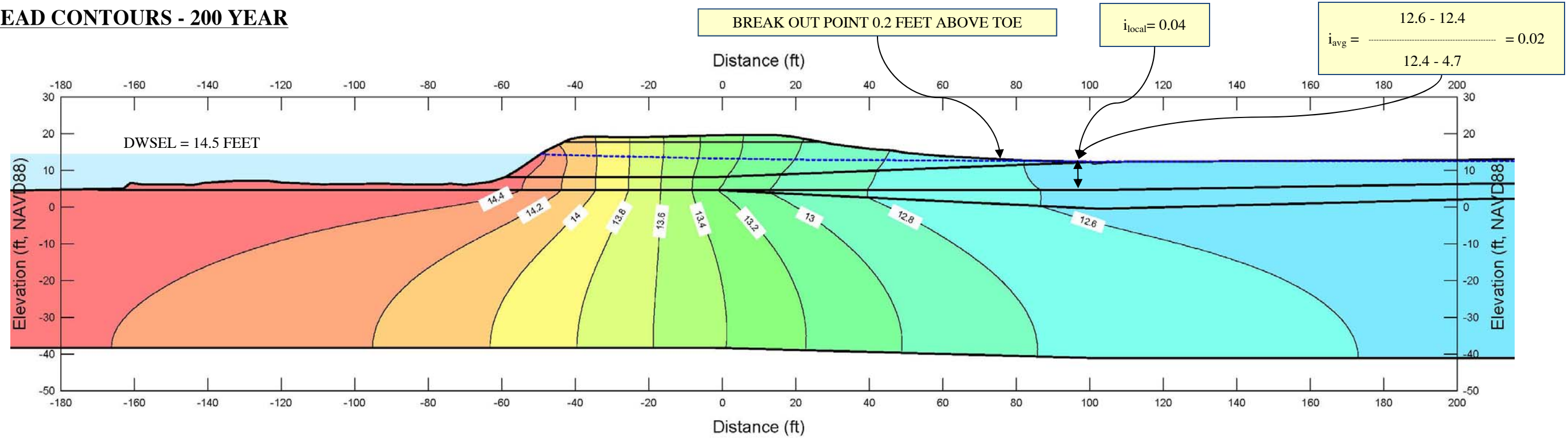


COPYRIGHT © 2014 BY ENGEO INCORPORATED. THIS DOCUMENT MAY NOT BE REPRODUCED IN WHOLE OR IN PART BY ANY MEANS WHATSOEVER, NOR MAY IT BE QUOTED OR EXCERPTED WITHOUT THE EXPRESS WRITTEN CONSENT OF ENGEO INCORPORATED.

**GEOMETRY OF MODEL**



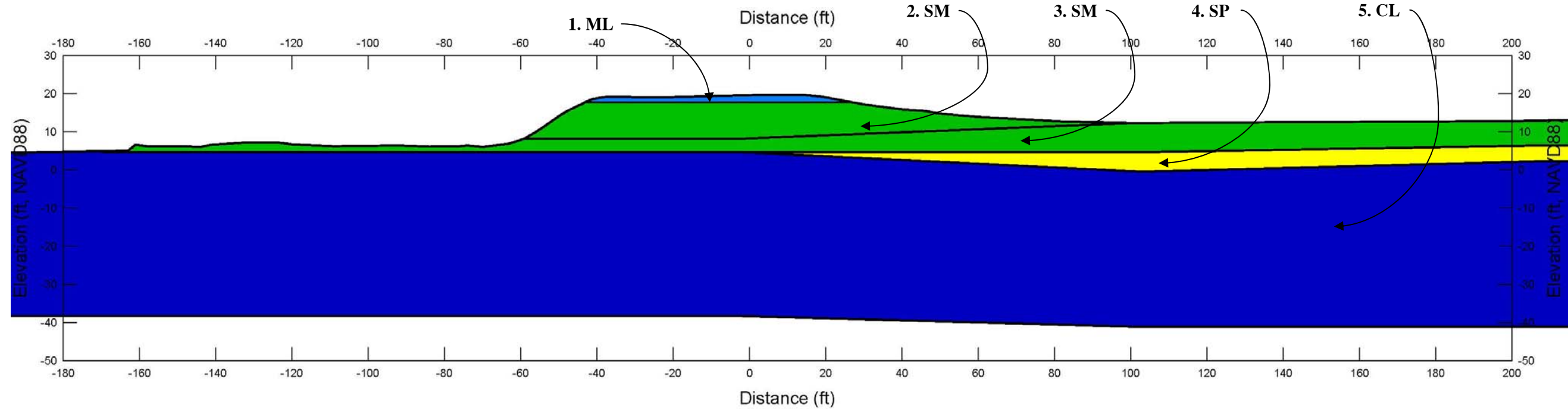
**TOTAL HEAD CONTOURS - 200 YEAR**



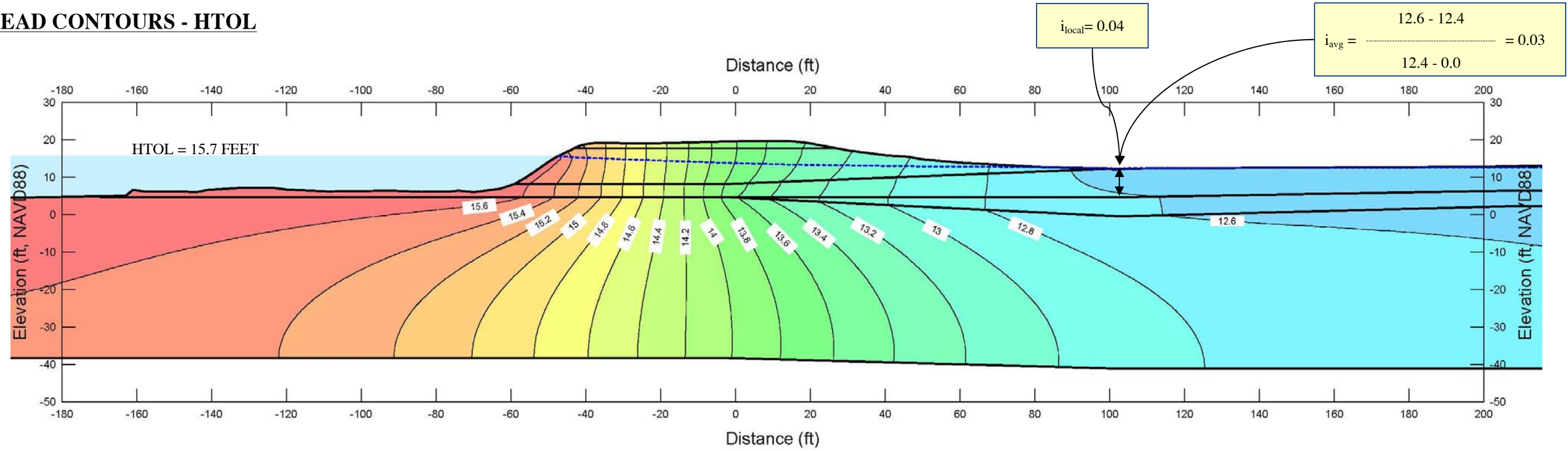
	SEEPAGE ANALYSIS REACH A1 - STA 7+56 RECLAMATION DISTRICT 17 SAN JOAQUIN COUNTY, CALIFORNIA		PROJECT NO.: 5747.005.000	FIGURE NO.
			SCALE: NO SCALE	E-2-B
			DRAWN BY: BA	

COPYRIGHT © 2014 BY ENGEO INCORPORATED. THIS DOCUMENT MAY NOT BE REPRODUCED IN WHOLE OR IN PART BY ANY MEANS WHATSOEVER, NOR MAY IT BE QUOTED OR EXCERPTED WITHOUT THE EXPRESS WRITTEN CONSENT OF ENGEO INCORPORATED.

**GEOMETRY OF MODEL**

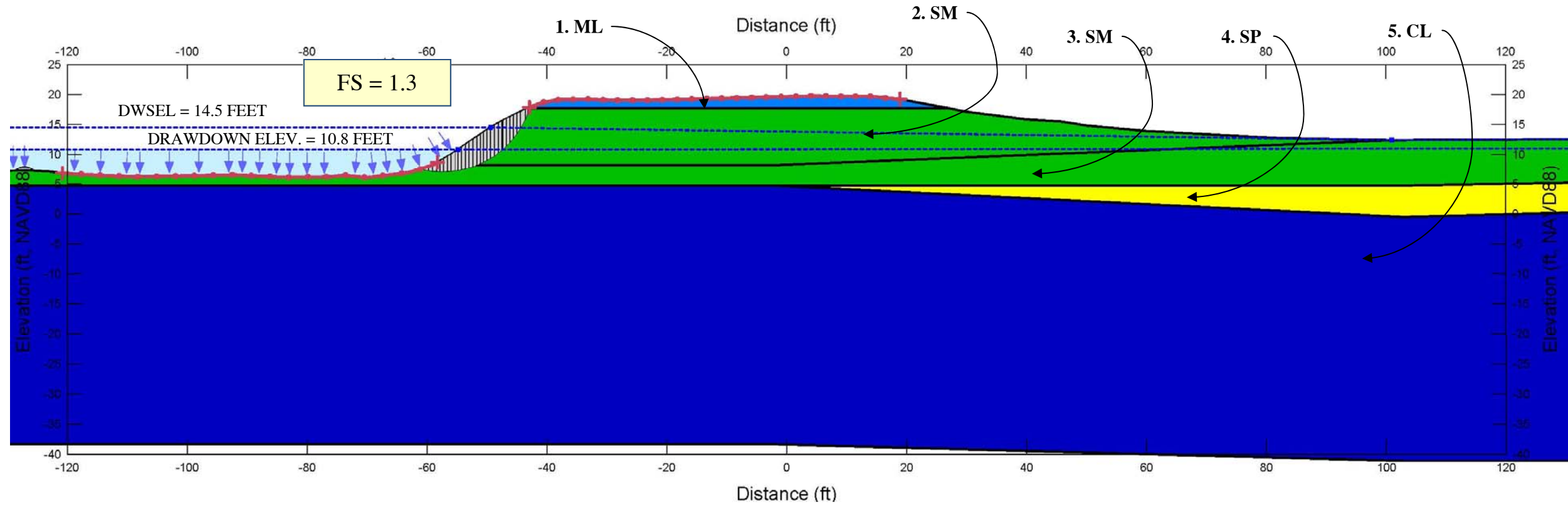


**TOTAL HEAD CONTOURS - HTOL**

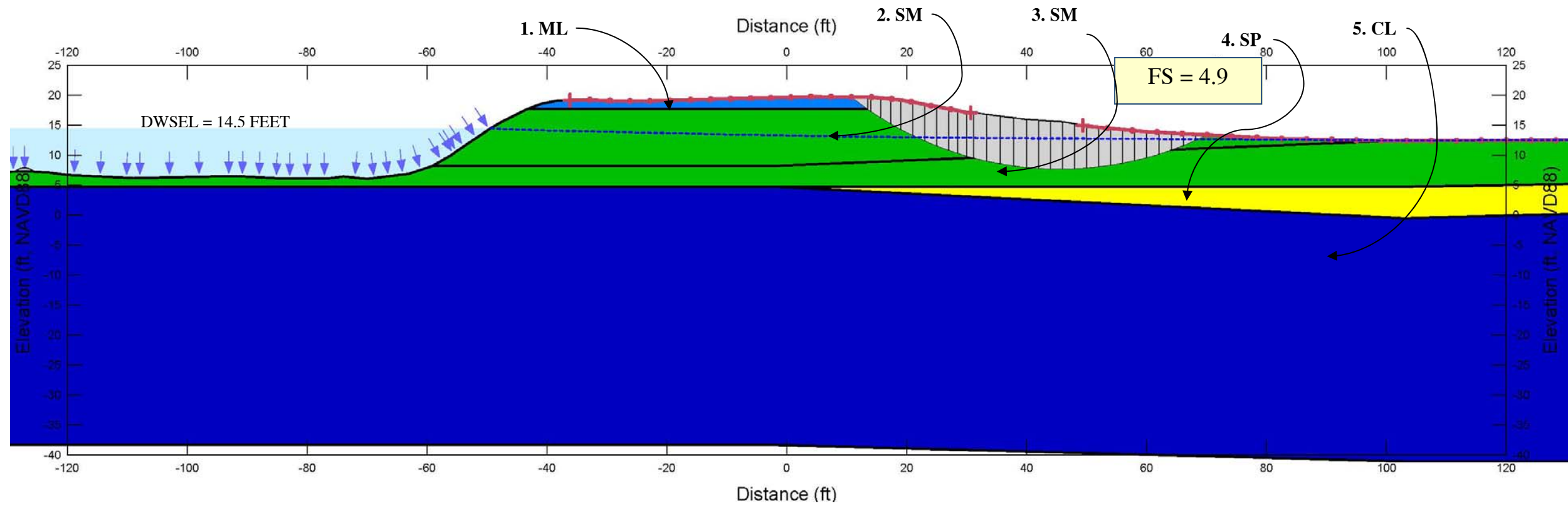


	SEEPAGE ANALYSIS REACH A1 - STA 7+56 RECLAMATION DISTRICT 17 SAN JOAQUIN COUNTY, CALIFORNIA		PROJECT NO.: 5747.005.000	FIGURE NO.
			SCALE: NO SCALE	E-2-C
			DRAWN BY: BA	

# WATERSIDE RAPID DRAWDOWN



# LANDSIDE STEADY STATE SEEPAGE - 200 YEAR

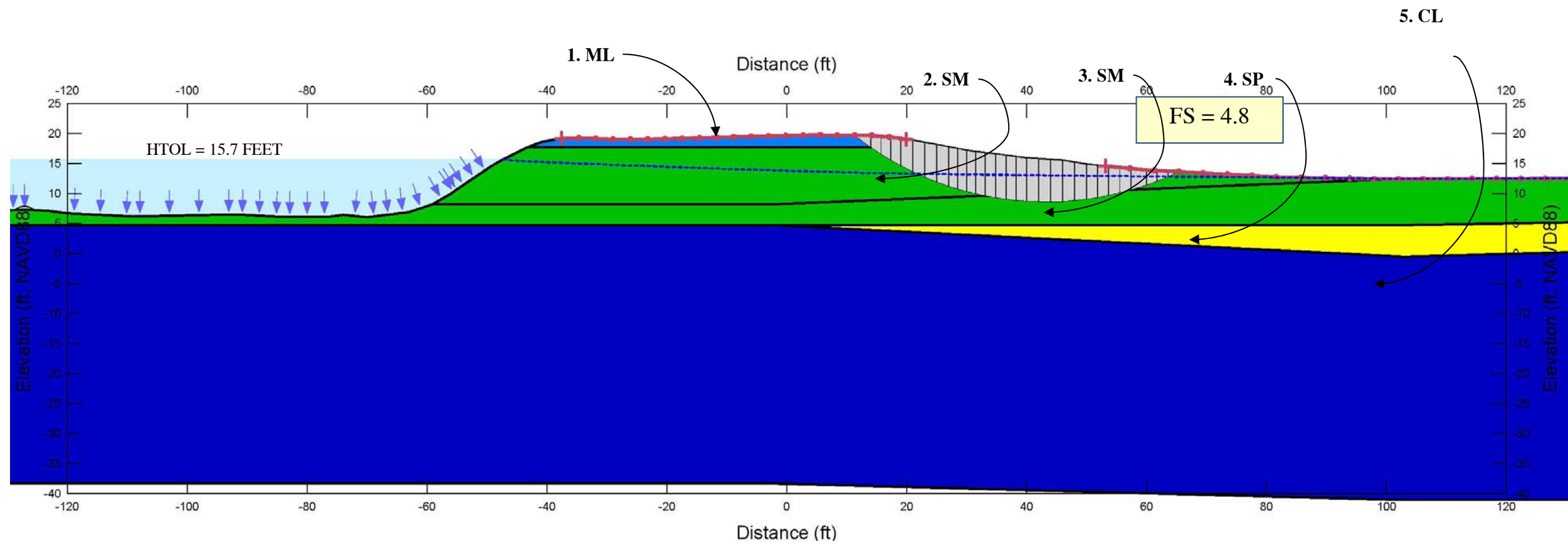


COPYRIGHT © 2014 BY ENGEO INCORPORATED. THIS DOCUMENT MAY NOT BE REPRODUCED IN WHOLE OR IN PART BY ANY MEANS WHATSOEVER, NOR MAY IT BE QUOTED OR EXCERPTED WITHOUT THE EXPRESS WRITTEN CONSENT OF ENGEO INCORPORATED.

	STATIC SLOPE STABILITY ANALYSIS REACH A1 - STA 7+56 RECLAMATION DISTRICT 17 SAN JOAQUIN COUNTY, CALIFORNIA		PROJECT NO.: 5747.005.000	FIGURE NO.
			SCALE: NO SCALE	E-2-D
			DRAWN BY: BA	

COPYRIGHT © 2014 BY ENGEO INCORPORATED. THIS DOCUMENT MAY NOT BE REPRODUCED IN WHOLE OR IN PART BY ANY MEANS WHATSOEVER, NOR MAY IT BE QUOTED OR EXCERPTED WITHOUT THE EXPRESS WRITTEN CONSENT OF ENGEO INCORPORATED.

### LANDSIDE STEADY STATE SEEPAGE - HTOL

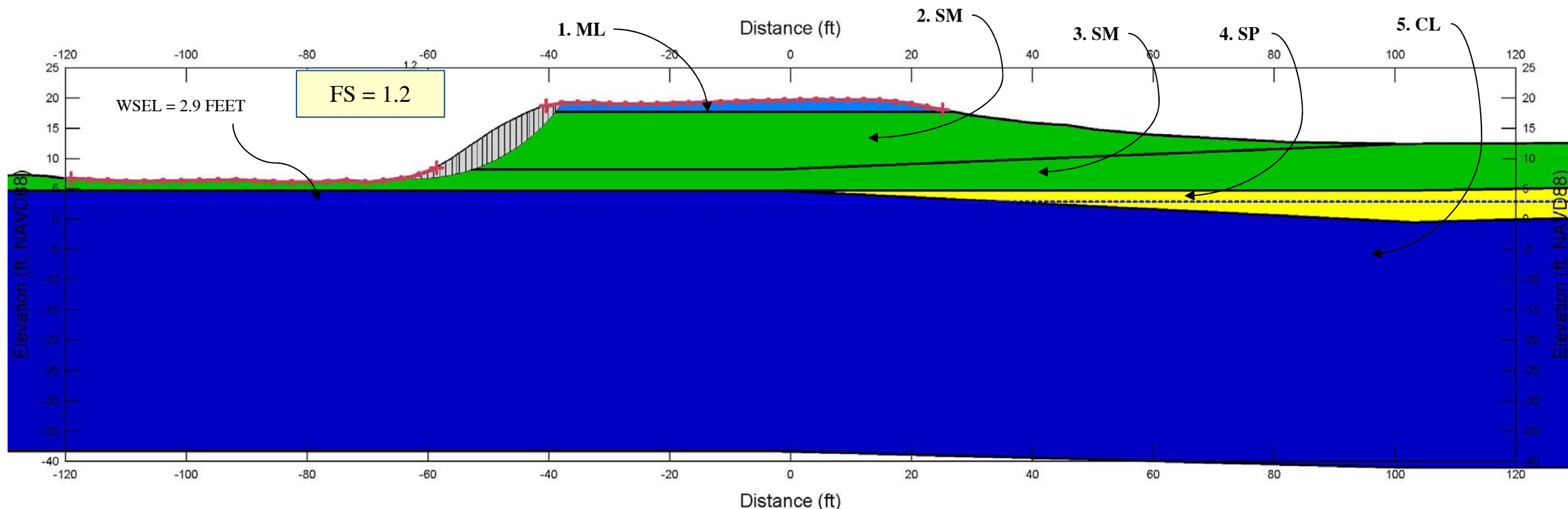
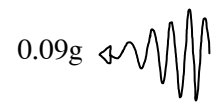


STATIC SLOPE STABILITY ANALYSIS  
REACH A1 - STA 7+56  
RECLAMATION DISTRICT 17  
SAN JOAQUIN COUNTY, CALIFORNIA

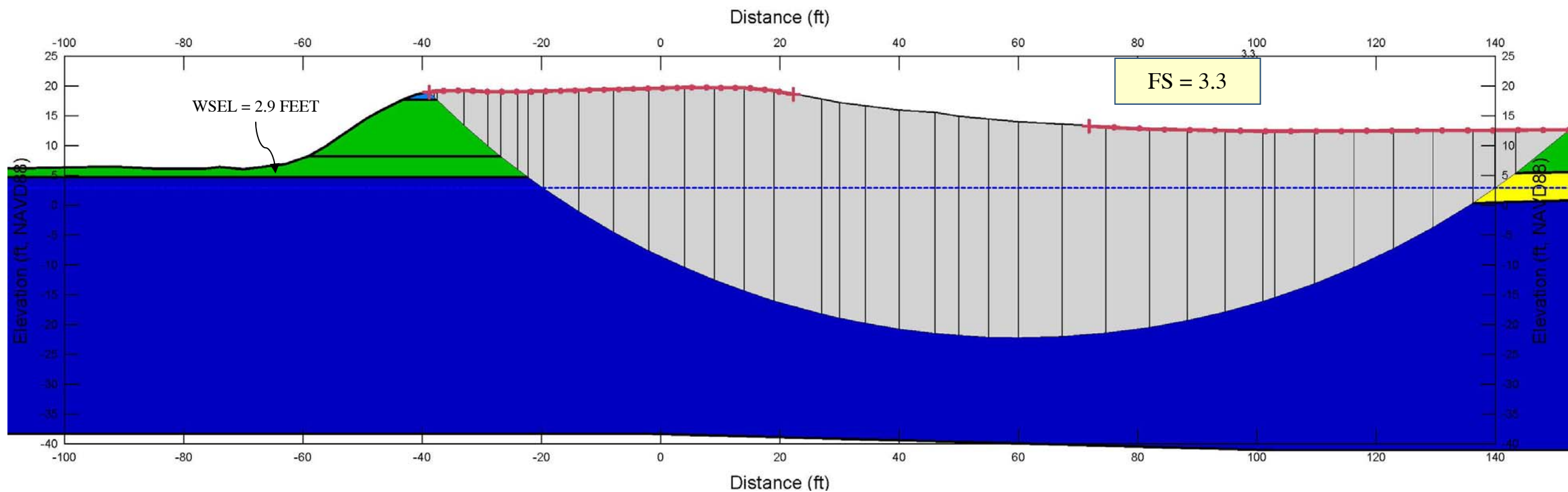
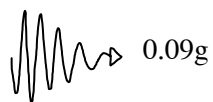
PROJECT NO.: 5747.005.000	
SCALE: NO SCALE	
DRAWN BY: BA	CHECKED BY: NS

FIGURE NO.  
**E-2-E**

# WATERSIDE SEISMIC



# LANDSIDE SEISMIC



COPYRIGHT © 2014 BY ENGEO INCORPORATED. THIS DOCUMENT MAY NOT BE REPRODUCED IN WHOLE OR IN PART BY ANY MEANS WHATSOEVER, NOR MAY IT BE QUOTED OR EXCERPTED WITHOUT THE EXPRESS WRITTEN CONSENT OF ENGEO INCORPORATED.



SEISMIC SLOPE STABILITY ANALYSIS  
 REACH A1 - STA 7+56  
 RECLAMATION DISTRICT 17  
 SAN JOAQUIN COUNTY, CALIFORNIA

PROJECT NO.: 5747.005.000

SCALE: NO SCALE

DRAWN BY: BA

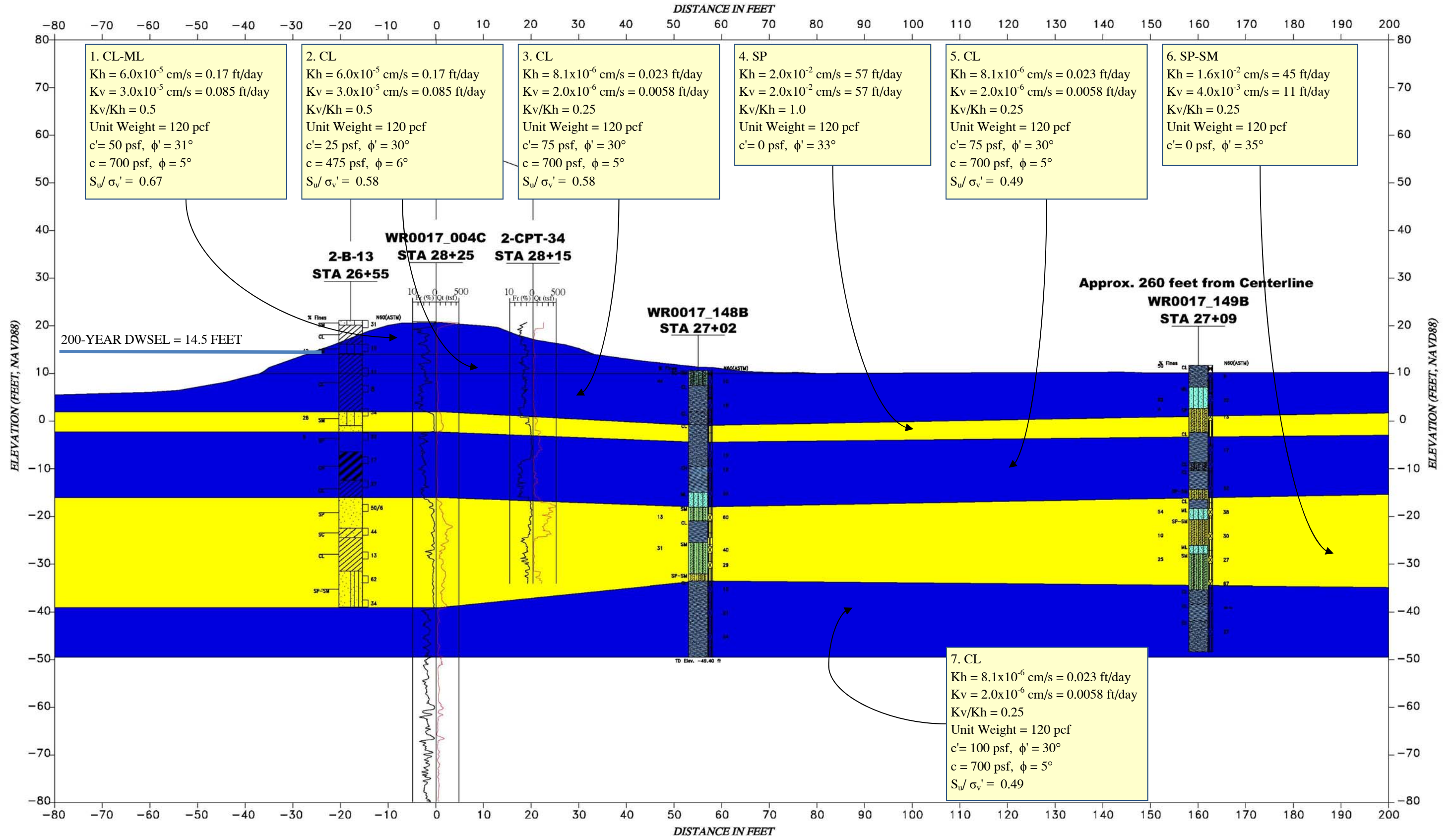
CHECKED BY: NS

FIGURE NO.

E-2-F

# WATERSIDE

# LANDSIDE



COPYRIGHT © 2014 BY ENGEO INCORPORATED. THIS DOCUMENT MAY NOT BE REPRODUCED IN WHOLE OR IN PART BY ANY MEANS WHATSOEVER, NOR MAY IT BE QUOTED OR EXCERPTED WITHOUT THE EXPRESS WRITTEN CONSENT OF ENGEO INCORPORATED.



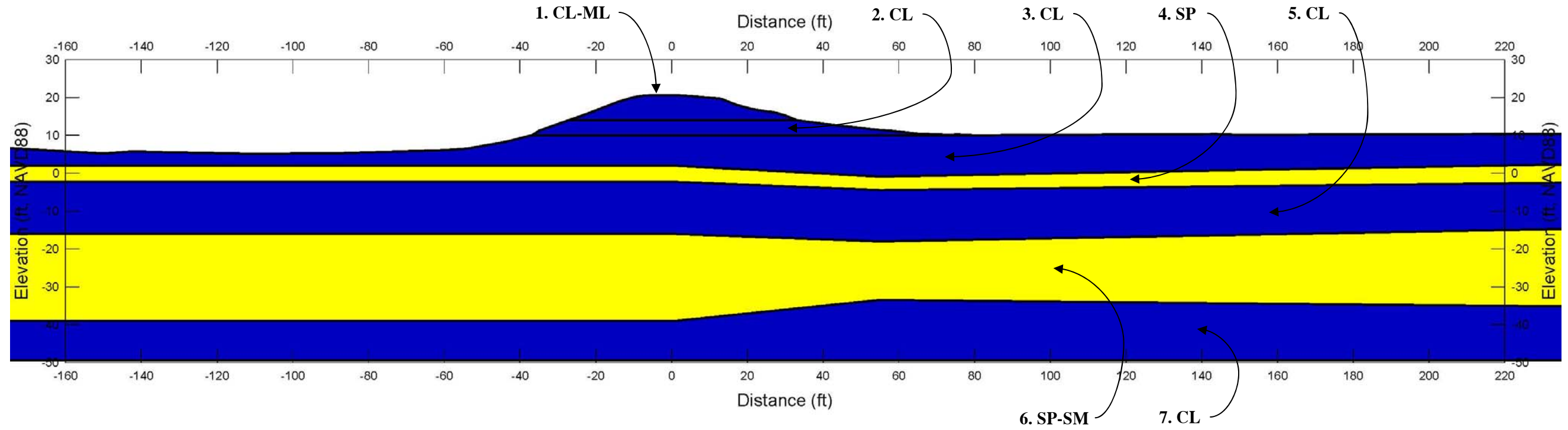
**CROSS SECTION & MATERIAL PARAMETERS**  
 REACH A2 - STA 28+05  
 RECLAMATION DISTRICT NO. 17  
 SAN JOAQUIN COUNTY, CALIFORNIA

PROJECT NO.: 5747.005.000	
SCALE:	NO SCALE
DRAWN BY:	ZR
CHECKED BY:	BA

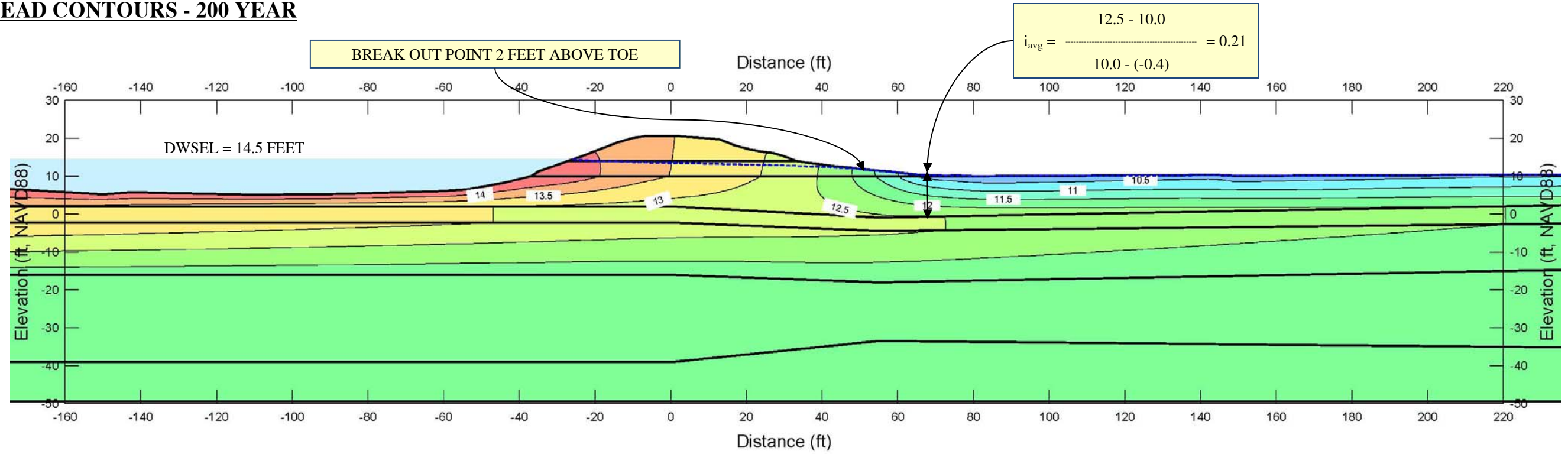
FIGURE NO.  
**E-3-A**

COPYRIGHT © 2014 BY ENGEO INCORPORATED. THIS DOCUMENT MAY NOT BE REPRODUCED IN WHOLE OR IN PART BY ANY MEANS WHATSOEVER, NOR MAY IT BE QUOTED OR EXCERPTED WITHOUT THE EXPRESS WRITTEN CONSENT OF ENGEO INCORPORATED.

### GEOMETRY OF MODEL



### TOTAL HEAD CONTOURS - 200 YEAR



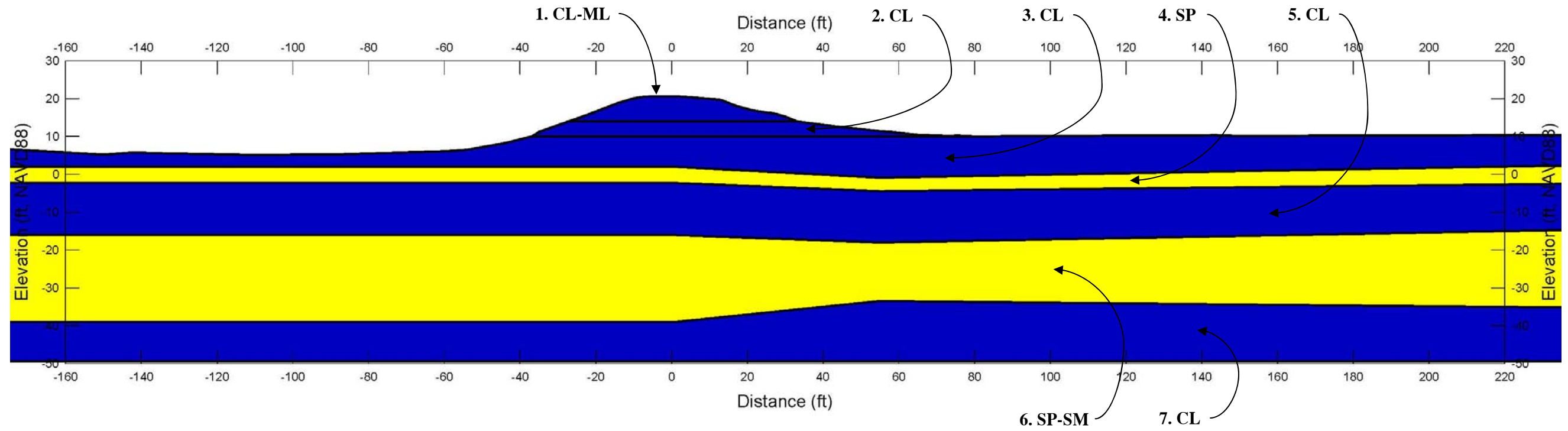
SEEPAGE ANALYSIS  
 REACH A2 - STA 28+05  
 RECLAMATION DISTRICT NO. 17  
 SAN JOAQUIN COUNTY, CALIFORNIA

PROJECT NO.: 5747.005.000	
SCALE: NO SCALE	
DRAWN BY: ZR	CHECKED BY: NS

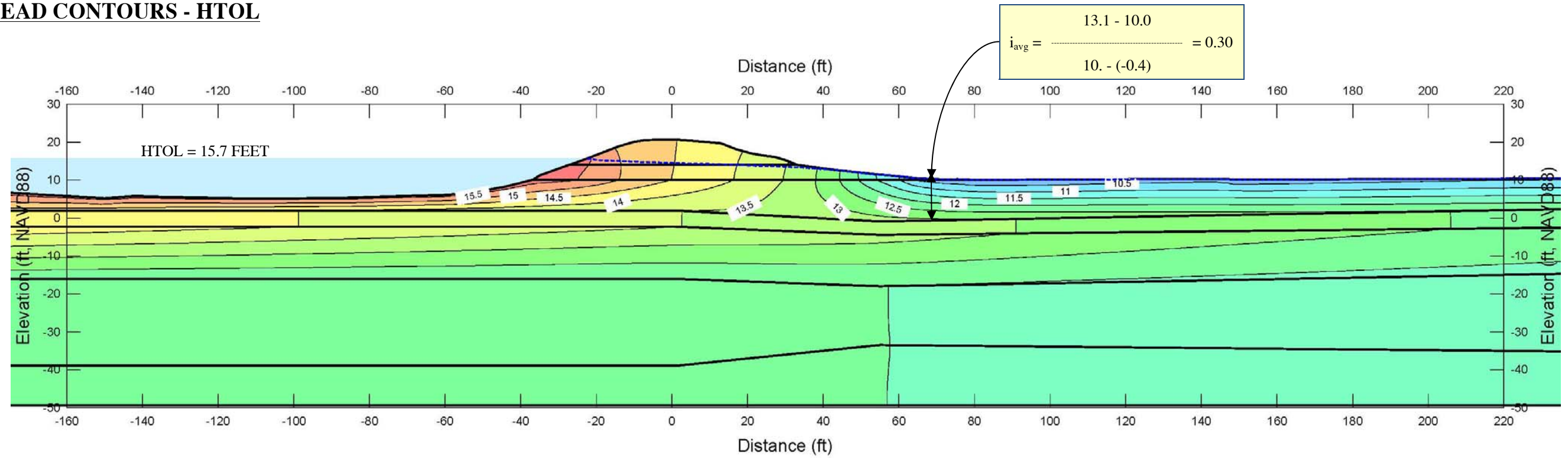
FIGURE NO.  
**E-3-B**

COPYRIGHT © 2014 BY ENGEO INCORPORATED. THIS DOCUMENT MAY NOT BE REPRODUCED IN WHOLE OR IN PART BY ANY MEANS WHATSOEVER, NOR MAY IT BE QUOTED OR EXCERPTED WITHOUT THE EXPRESS WRITTEN CONSENT OF ENGEO INCORPORATED.

## GEOMETRY OF MODEL



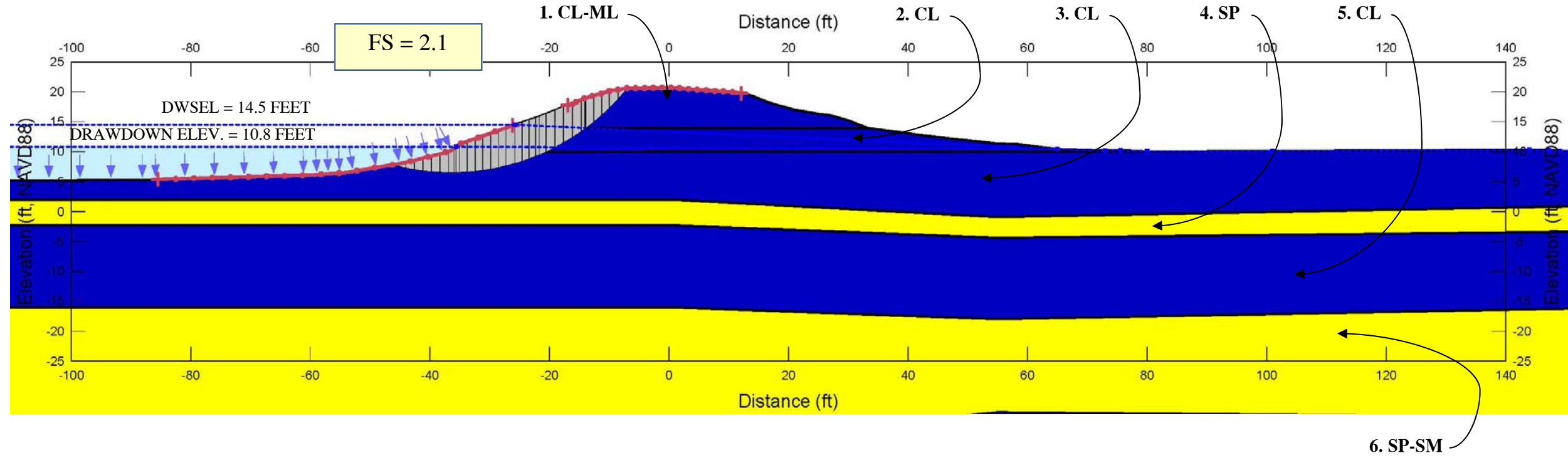
## TOTAL HEAD CONTOURS - HTOL



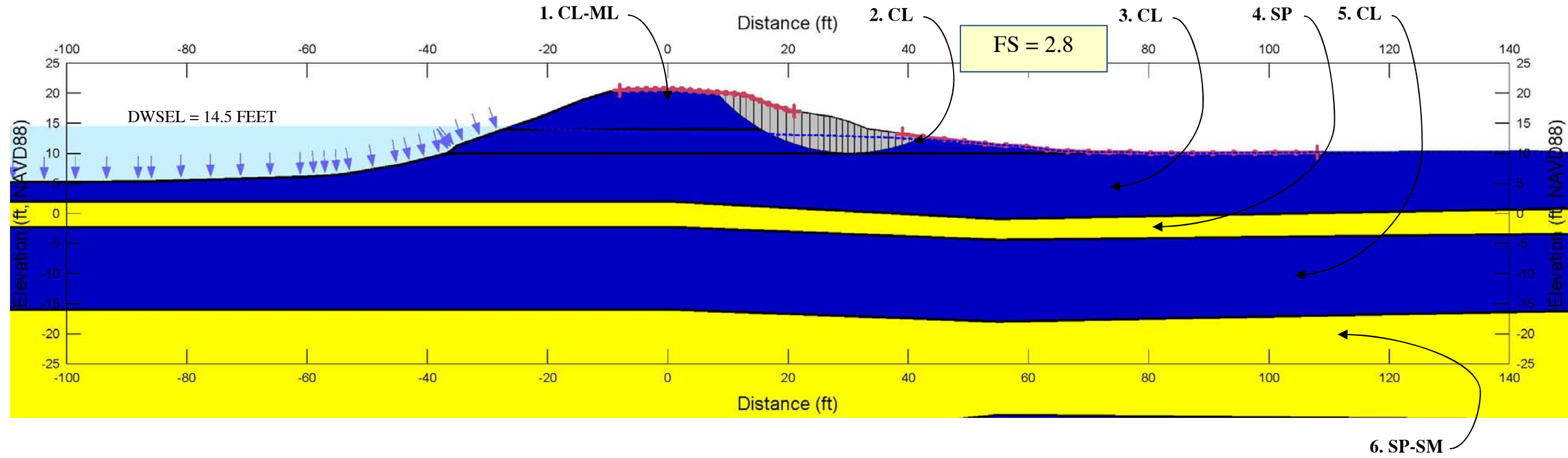


COPYRIGHT © 2014 BY ENGEO INCORPORATED. THIS DOCUMENT MAY NOT BE REPRODUCED IN WHOLE OR IN PART BY ANY MEANS WHATSOEVER, NOR MAY IT BE QUOTED OR EXCERPTED WITHOUT THE EXPRESS WRITTEN CONSENT OF ENGEO INCORPORATED.

### WATERSIDE RAPID DRAWDOWN



### LANDSIDE STEADY STATE SEEPAGE - 200 YEAR



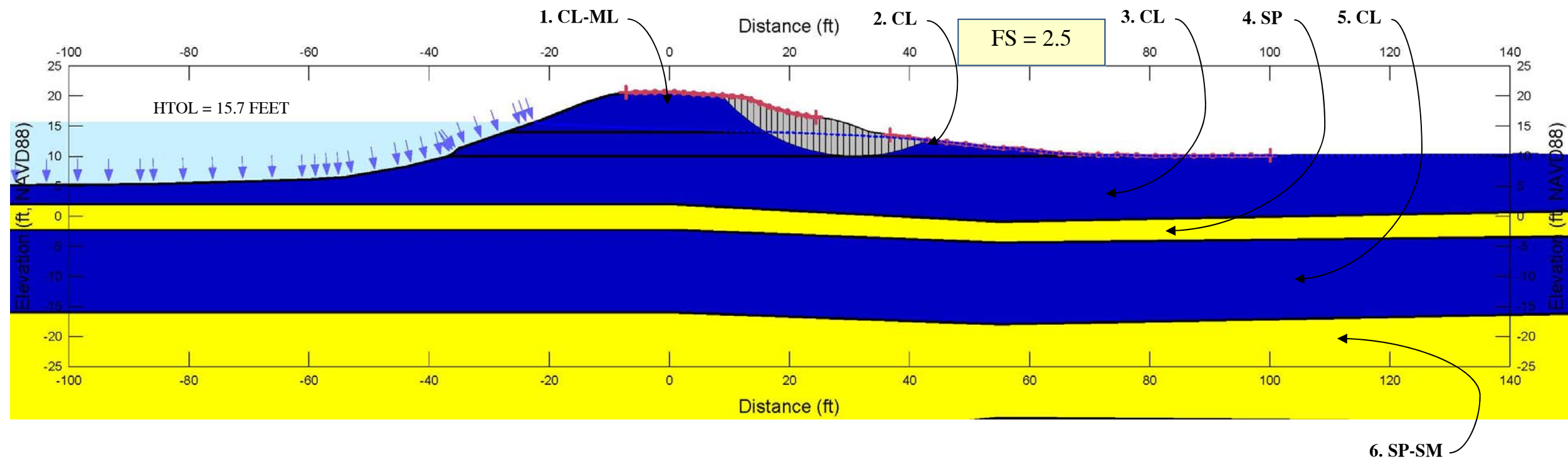
STATIC SLOPE STABILITY ANALYSIS  
REACH A2 - STA 28+05  
RECLAMATION DISTRICT NO. 17  
SAN JOAQUIN COUNTY, CALIFORNIA

PROJECT NO.: 5747.005.000
SCALE: NO SCALE
DRAWN BY: ZR
CHECKED BY: NS

FIGURE NO.  
E-3-D

COPYRIGHT © 2014 BY ENGEO INCORPORATED. THIS DOCUMENT MAY NOT BE REPRODUCED IN WHOLE OR IN PART BY ANY MEANS WHATSOEVER, NOR MAY IT BE QUOTED OR EXCERPTED WITHOUT THE EXPRESS WRITTEN CONSENT OF ENGEO INCORPORATED.

### LANDSIDE STEADY STATE SEEPAGE - HTOL



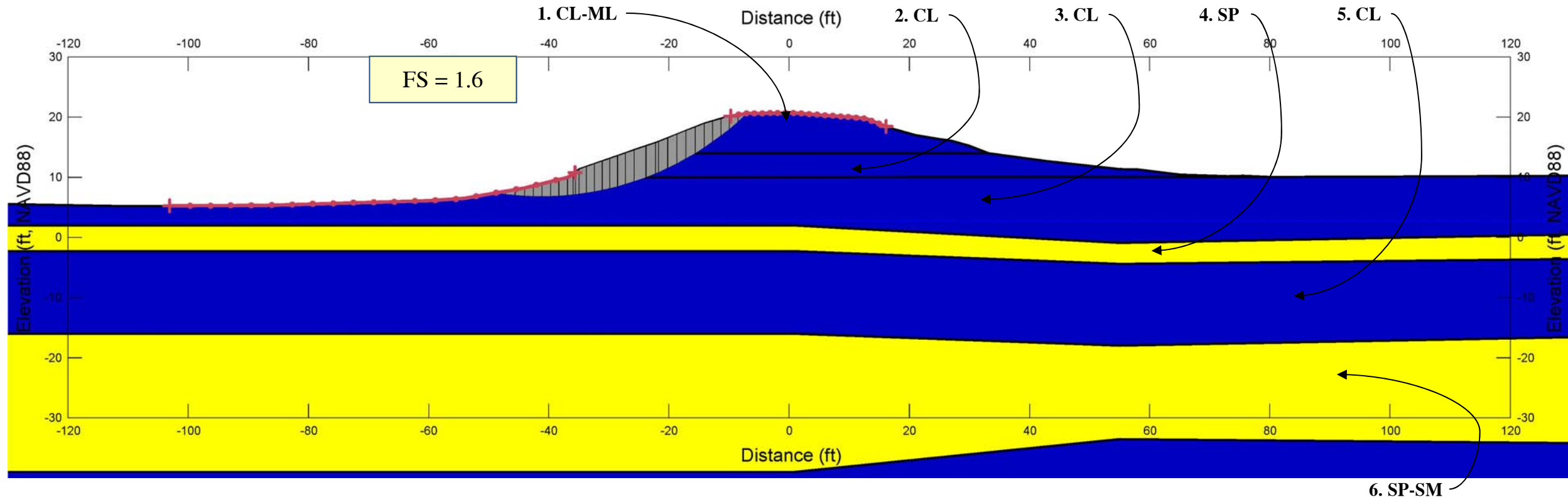
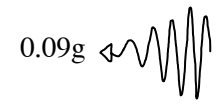
STATIC SLOPE STABILITY ANALYSIS  
REACH A2 - STA 28+05  
RECLAMATION DISTRICT NO. 17  
SAN JOAQUIN COUNTY, CALIFORNIA

PROJECT NO.: 5747.005.000	
SCALE:	NO SCALE
DRAWN BY:	ZR
CHECKED BY:	NS

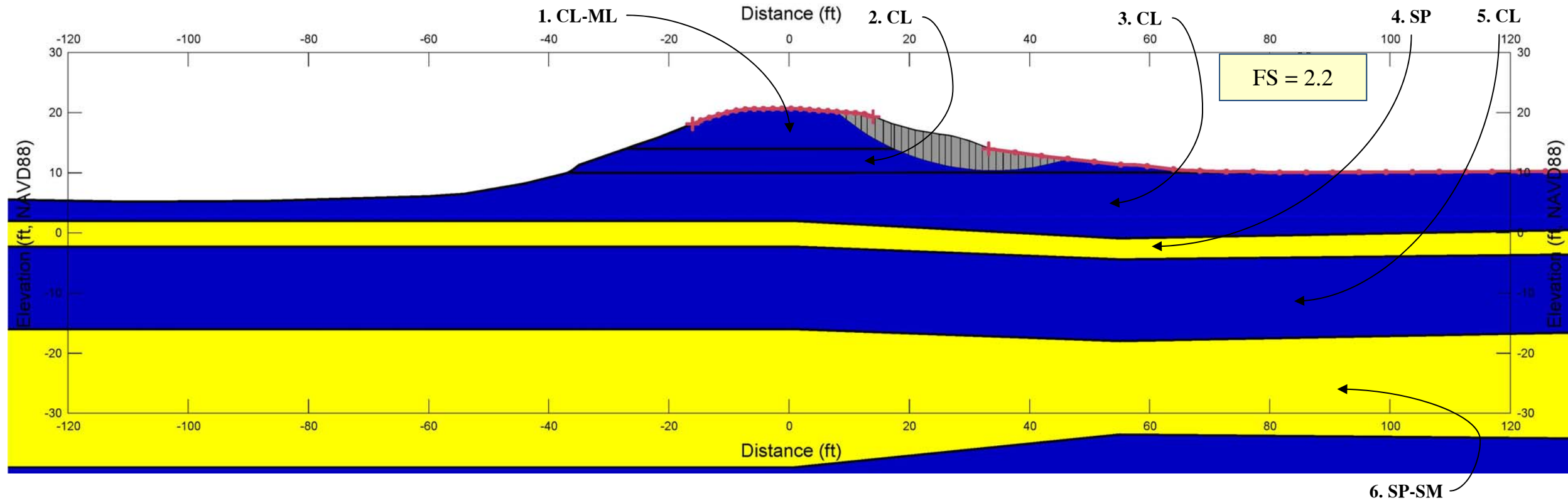
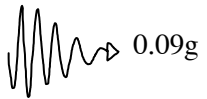
FIGURE NO.  
E-3-E

COPYRIGHT © 2014 BY ENGEO INCORPORATED. THIS DOCUMENT MAY NOT BE REPRODUCED IN WHOLE OR IN PART BY ANY MEANS WHATSOEVER, NOR MAY IT BE QUOTED OR EXCERPTED WITHOUT THE EXPRESS WRITTEN CONSENT OF ENGEO INCORPORATED.

### WATERSIDE SEISMIC



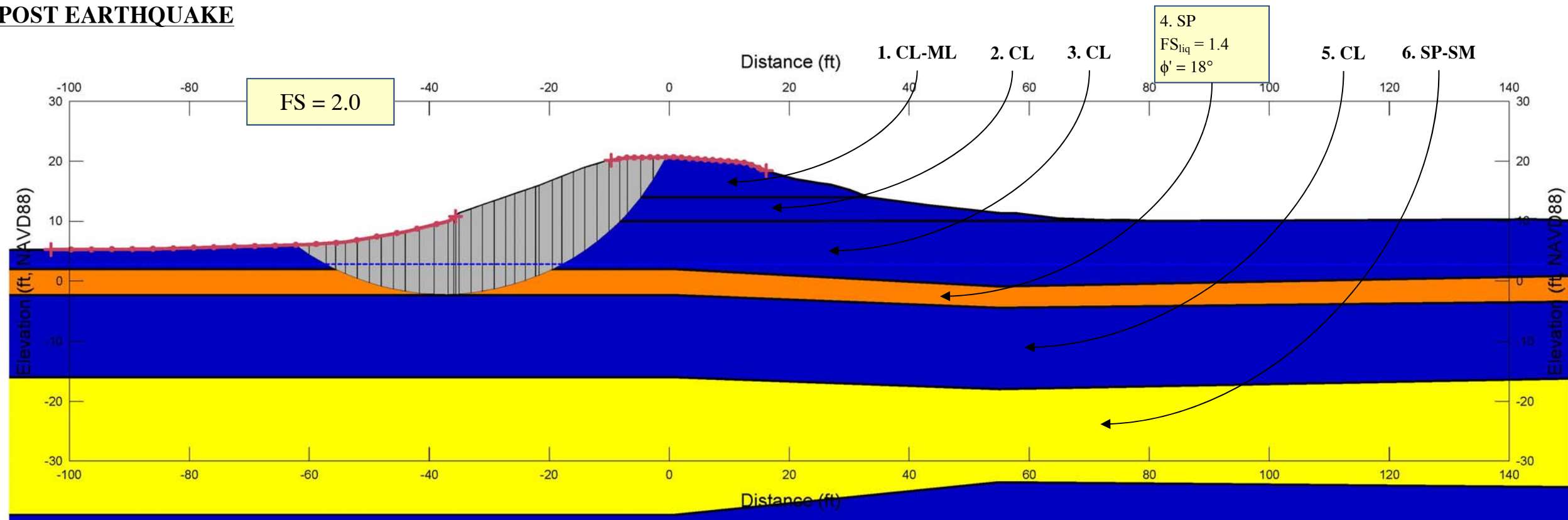
### LANDSIDE SEISMIC



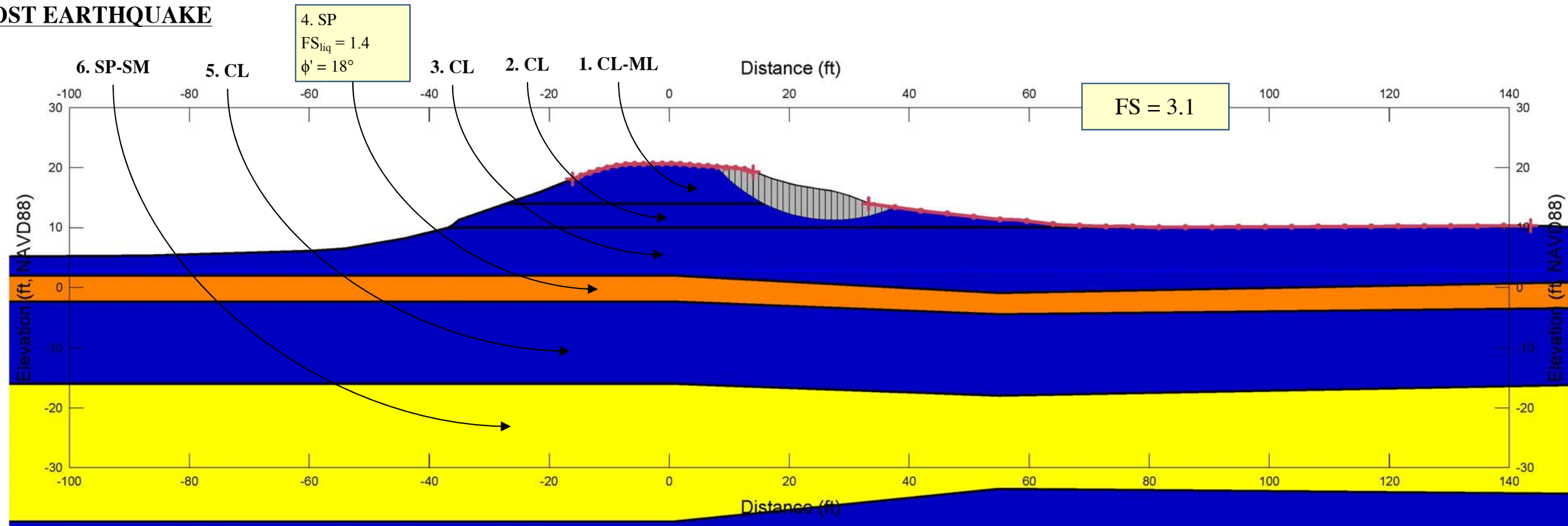
	<b>SEISMIC SLOPE STABILITY ANALYSIS</b> REACH A2 - STA 28+05 RECLAMATION DISTRICT NO. 17 SAN JOAQUIN COUNTY, CALIFORNIA		PROJECT NO.: 5747.005.000	FIGURE NO. <b>E-3-F</b>
			SCALE: NO SCALE	
			DRAWN BY: ZR      CHECKED BY: NS	

COPYRIGHT © 2014 BY ENGEO INCORPORATED. THIS DOCUMENT MAY NOT BE REPRODUCED IN WHOLE OR IN PART BY ANY MEANS WHATSOEVER, NOR MAY IT BE QUOTED OR EXCERPTED WITHOUT THE EXPRESS WRITTEN CONSENT OF ENGEO INCORPORATED.

### WATERSIDE POST EARTHQUAKE



### LANDSIDE POST EARTHQUAKE



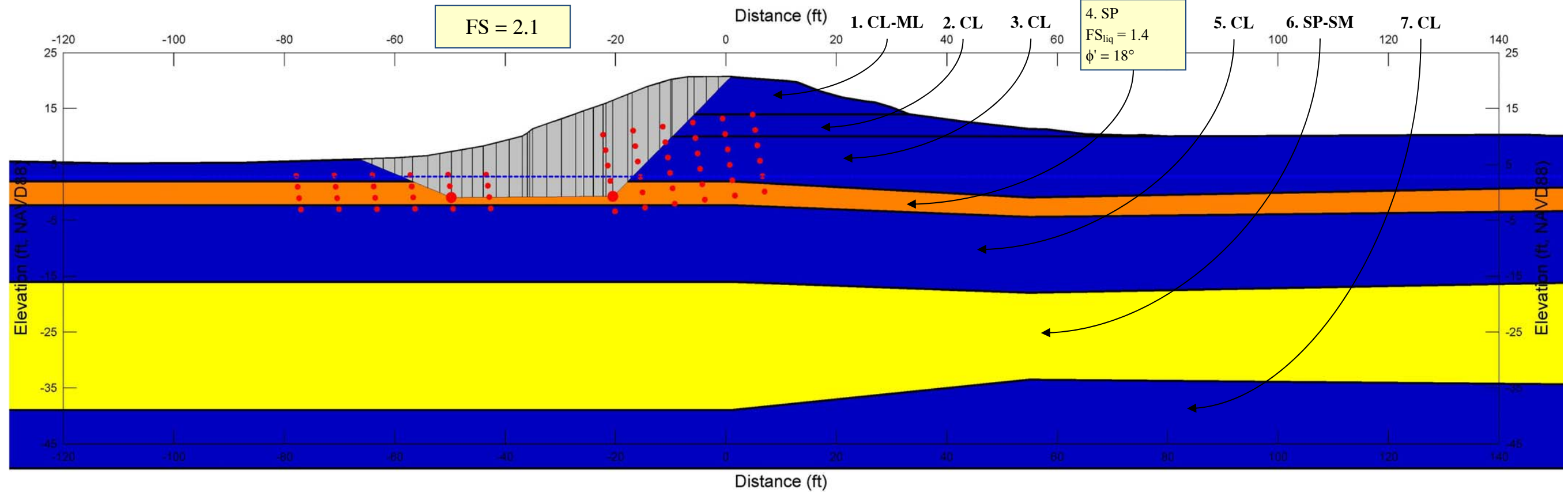
SEISMIC SLOPE STABILITY ANALYSIS  
 REACH A2 - STA 28+05  
 RECLAMATION DISTRICT NO. 17  
 SAN JOAQUIN COUNTY, CALIFORNIA

PROJECT NO.: 5747.005.000	
SCALE: NO SCALE	
DRAWN BY: BA	CHECKED BY: CC

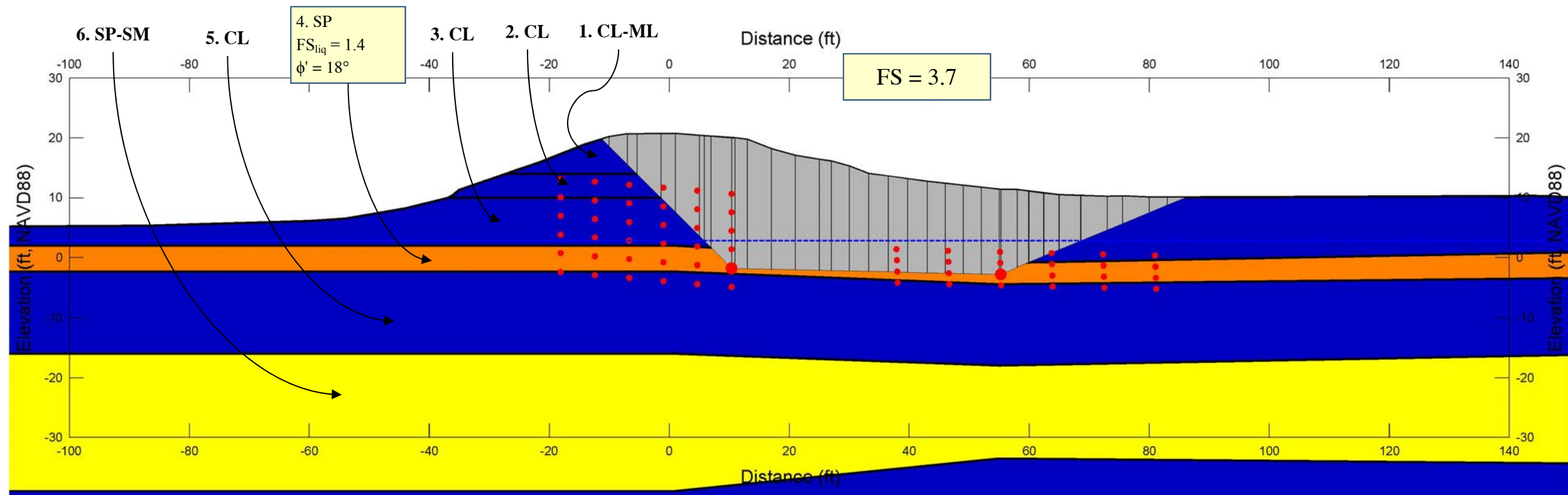
FIGURE NO.  
**E-3-G**


COPYRIGHT © 2014 BY ENGEO INCORPORATED. THIS DOCUMENT MAY NOT BE REPRODUCED IN WHOLE OR IN PART BY ANY MEANS WHATSOEVER WITHOUT THE EXPRESS WRITTEN CONSENT OF ENGEO INCORPORATED.

### WATERSIDE POST EARTHQUAKE (NON-CIRCULAR FAILURE)



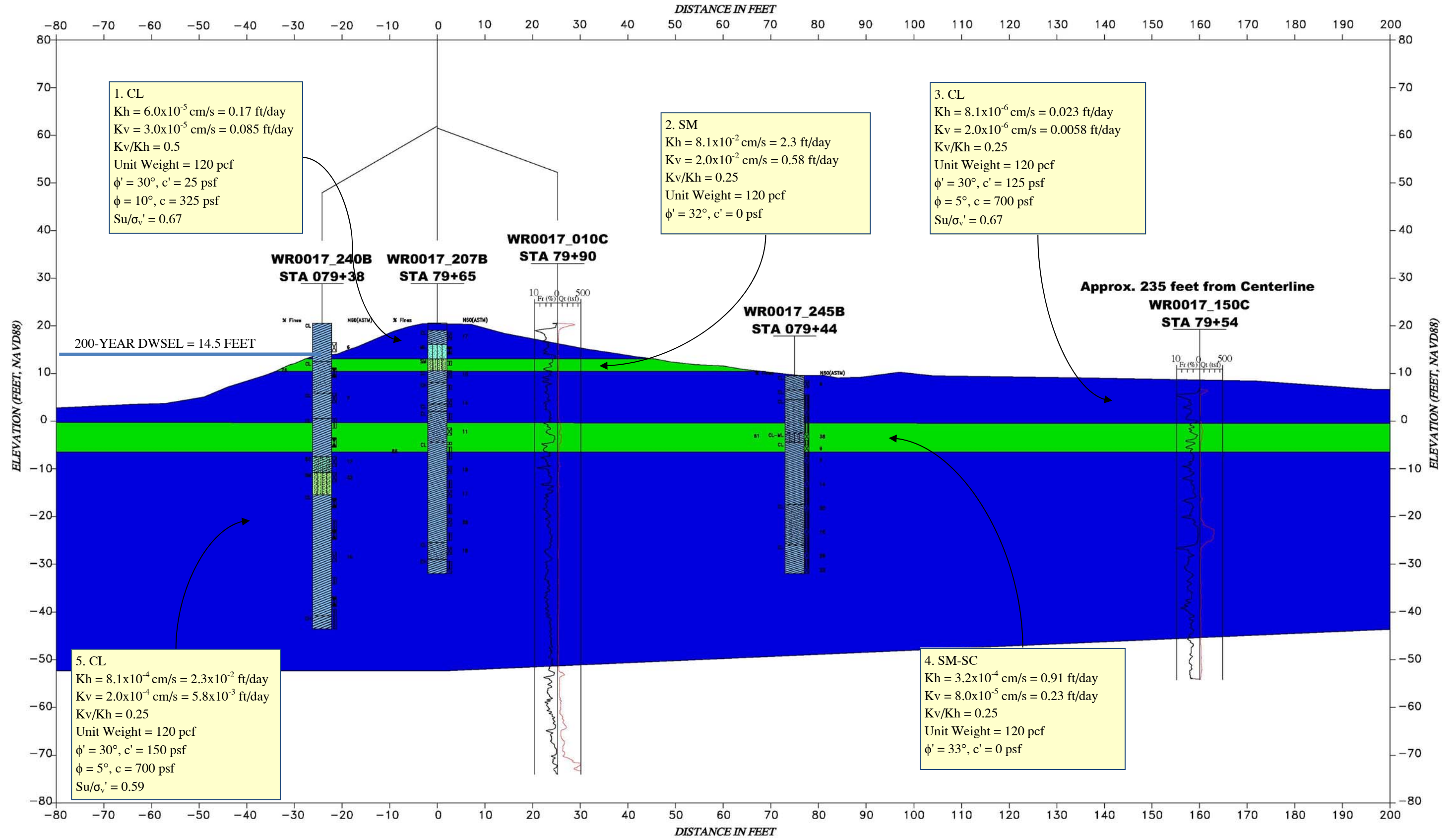
### LANDSIDE POST EARTHQUAKE (NON-CIRCULAR FAILURE)



 <p>Expect Excellence</p>	SEISMIC SLOPE STABILITY ANALYSIS REACH A2 - STA 28+05 RECLAMATION DISTRICT NO. 17 SAN JOAQUIN COUNTY, CALIFORNIA		PROJECT NO.: 5747.005.000	FIGURE NO. <b>E-3-H</b>
			SCALE: NO SCALE	
			DRAWN BY: BA    CHECKED BY: CC	

# WATERSIDE

# LANDSIDE



COPYRIGHT © 2014 BY ENGEO INCORPORATED. THIS DOCUMENT MAY NOT BE REPRODUCED IN WHOLE OR IN PART BY ANY MEANS WHATSOEVER, NOR MAY IT BE QUOTED OR EXCERPTED WITHOUT THE EXPRESS WRITTEN CONSENT OF ENGEO INCORPORATED.

10/16/2015 1:06 PM



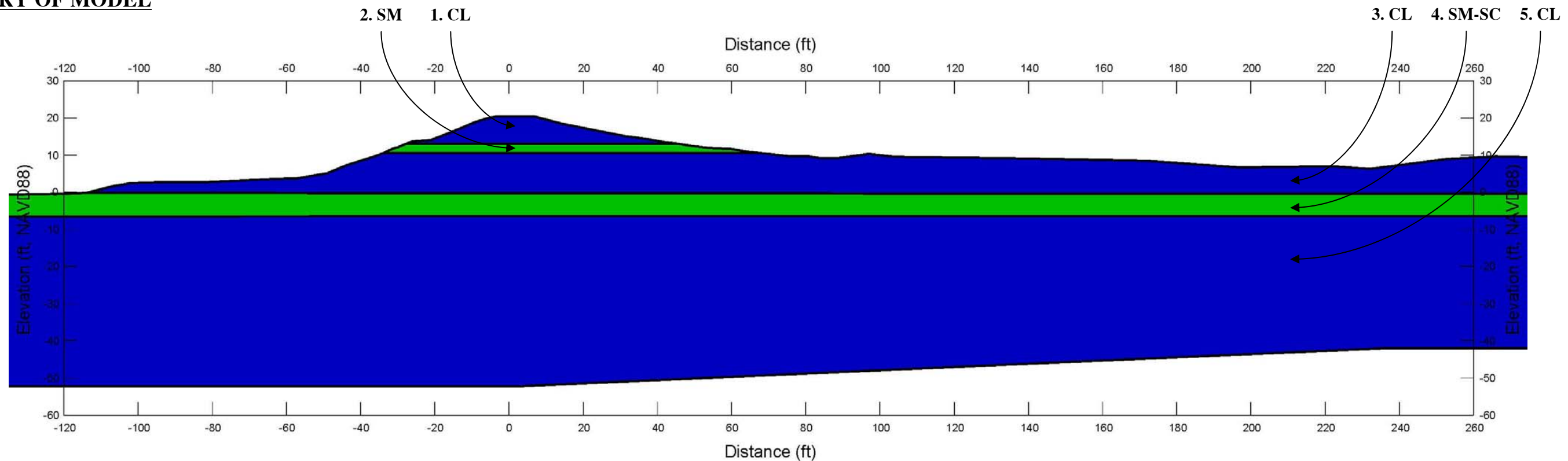
**CROSS SECTION & MATERIAL PARAMETERS**  
 REACH B - STA 079+72  
 RECLAMATION DISTRICT NO. 17  
 SAN JOAQUIN COUNTY, CALIFORNIA

PROJECT NO.: 5747.005.000	
SCALE: NO SCALE	
DRAWN BY: ZR	CHECKED BY: NS

FIGURE NO.  
**E-4-A**

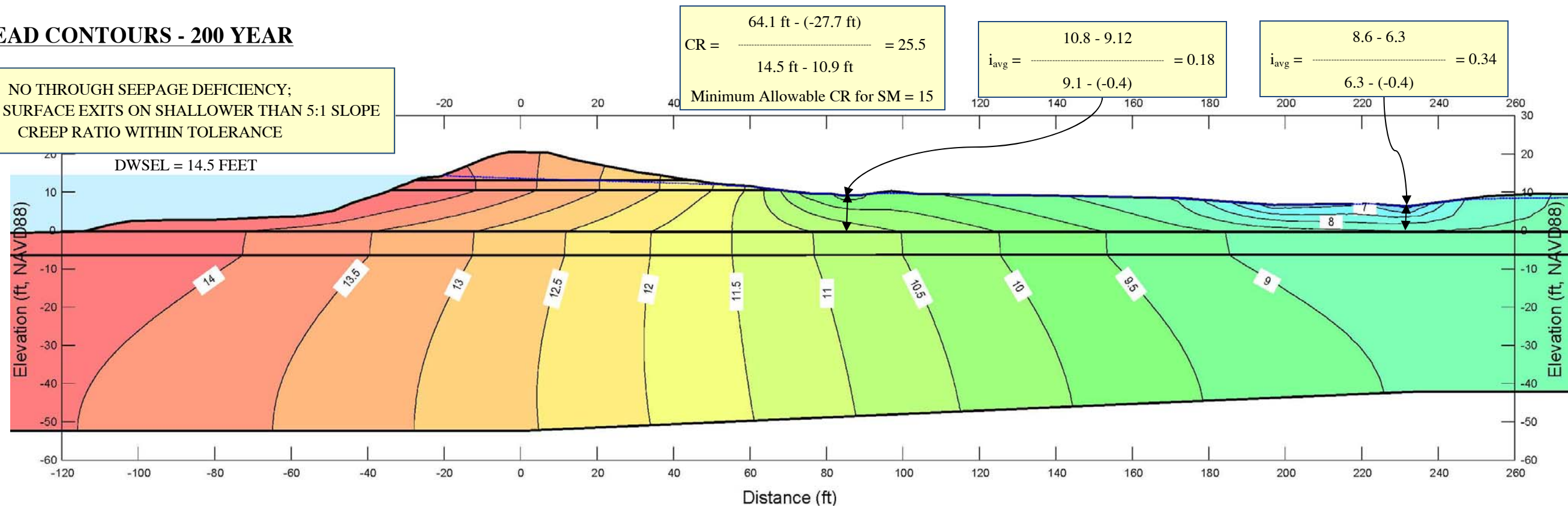
COPYRIGHT © 2014 BY ENGEO INCORPORATED. THIS DOCUMENT MAY NOT BE REPRODUCED IN WHOLE OR IN PART BY ANY MEANS WHATSOEVER, NOR MAY IT BE QUOTED OR EXCERPTED WITHOUT THE EXPRESS WRITTEN CONSENT OF ENGEO INCORPORATED.

### GEOMETRY OF MODEL



### TOTAL HEAD CONTOURS - 200 YEAR

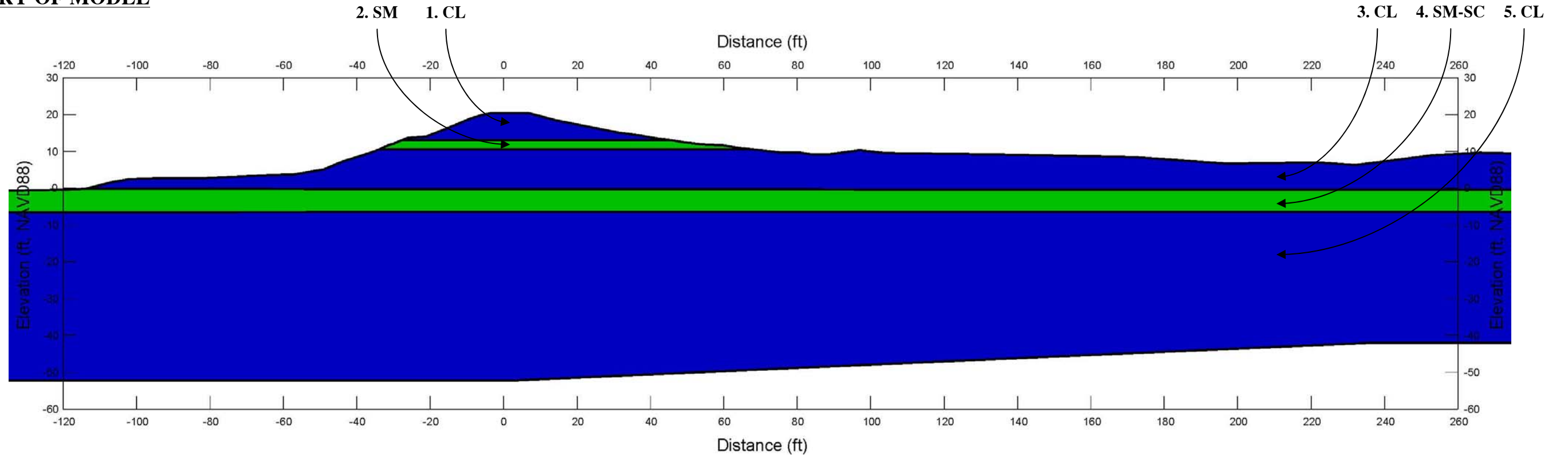
NO THROUGH SEEPAGE DEFICIENCY;  
PHREATIC SURFACE EXISTS ON SHALLOWER THAN 5:1 SLOPE  
CREEP RATIO WITHIN TOLERANCE



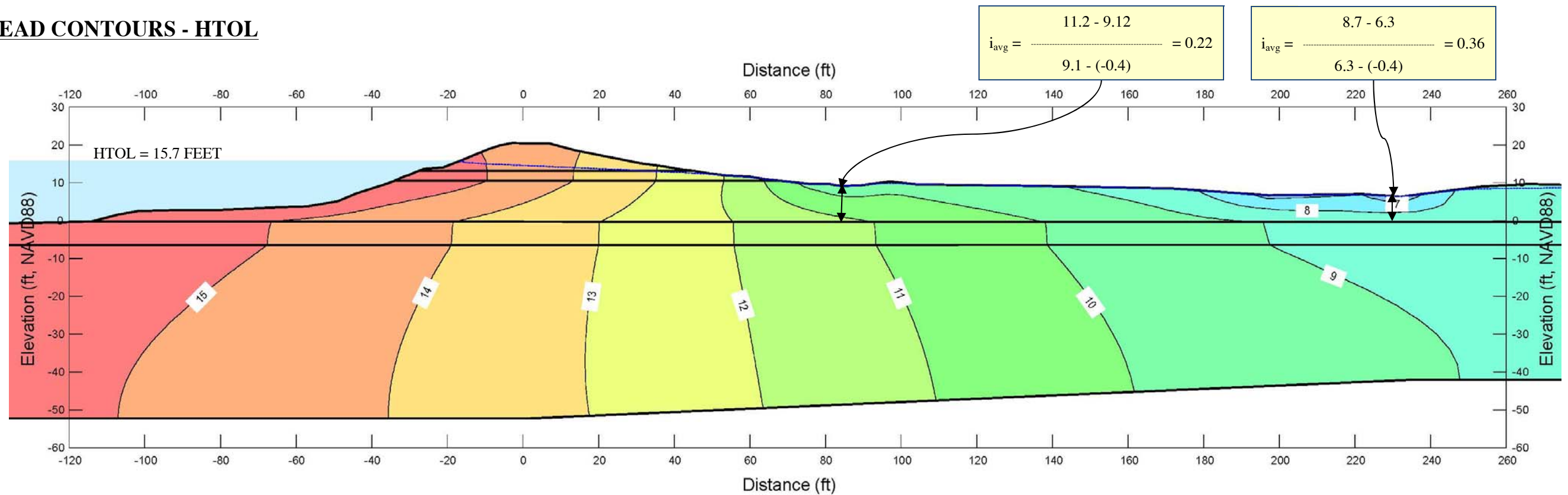
	SEEPAGE ANALYSIS REACH B - STA 079+72 RECLAMATION DISTRICT NO. 17 SAN JOAQUIN COUNTY, CALIFORNIA		PROJECT NO.: 5747.005.000	FIGURE NO.  <b>E-4-B</b>
			SCALE: NO SCALE	
			DRAWN BY: ZR    CHECKED BY: NS	

COPYRIGHT © 2014 BY ENGEO INCORPORATED. THIS DOCUMENT MAY NOT BE REPRODUCED IN WHOLE OR IN PART BY ANY MEANS WHATSOEVER, NOR MAY IT BE QUOTED OR EXCERPTED WITHOUT THE EXPRESS WRITTEN CONSENT OF ENGEO INCORPORATED.

### GEOMETRY OF MODEL



### TOTAL HEAD CONTOURS - HTOL



SEEPAGE ANALYSIS  
 REACH B - STA 079+72  
 RECLAMATION DISTRICT NO. 17  
 SAN JOAQUIN COUNTY, CALIFORNIA

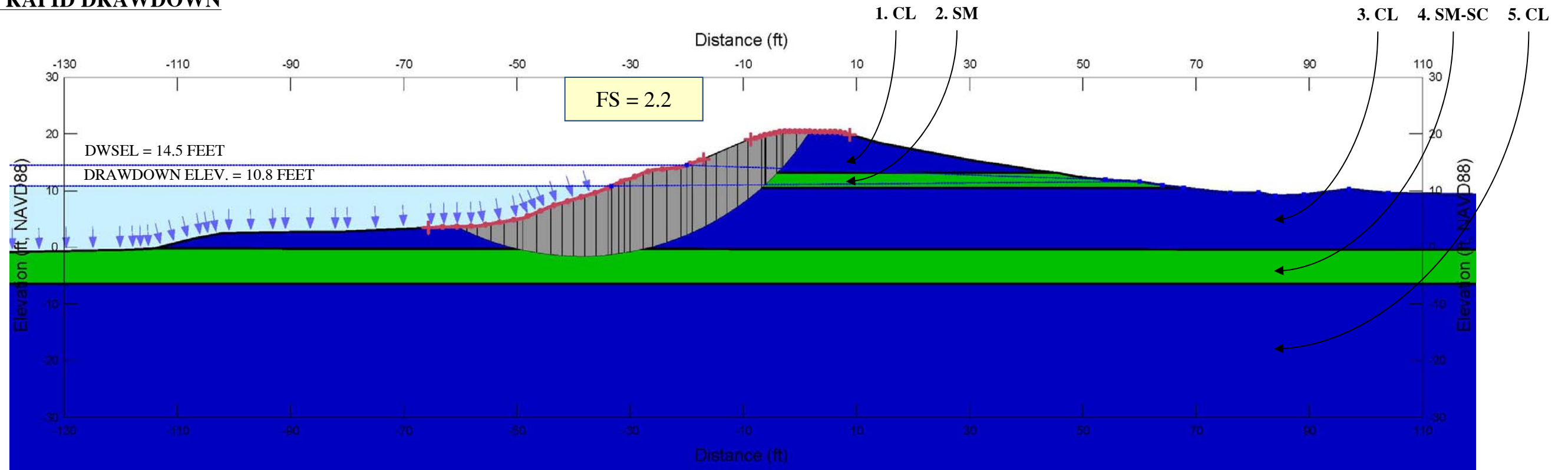
PROJECT NO.: 5747.005.000	
SCALE: NO SCALE	
DRAWN BY: ZR	CHECKED BY: NS

FIGURE NO.  
**E-4-C**

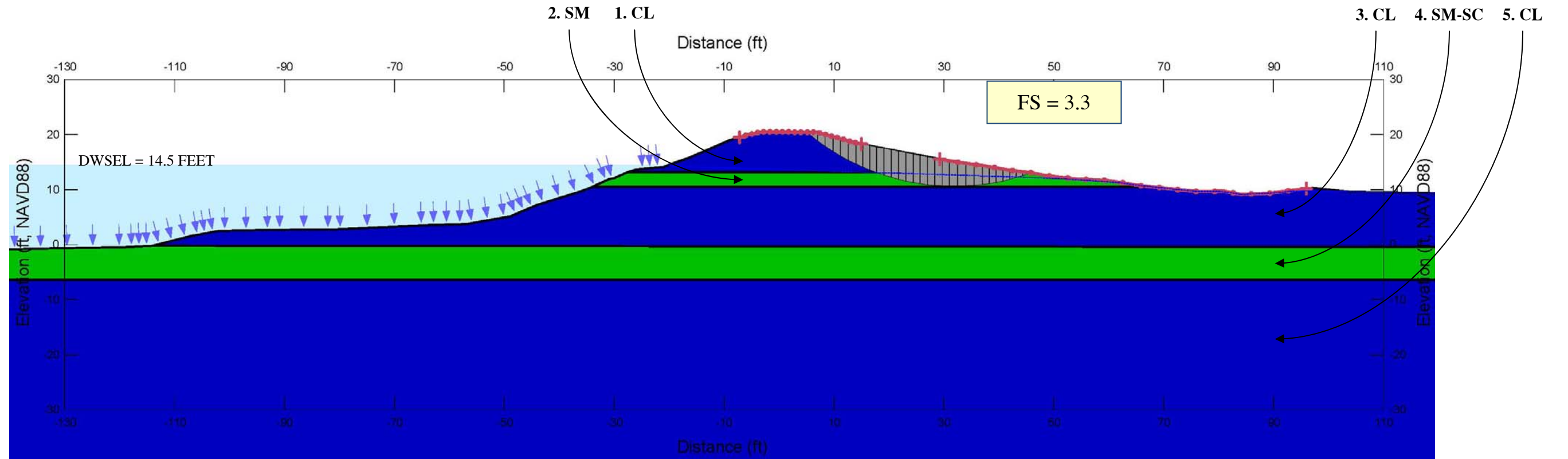


COPYRIGHT © 2014 BY ENGEO INCORPORATED. THIS DOCUMENT MAY NOT BE REPRODUCED IN WHOLE OR IN PART BY ANY MEANS WHATSOEVER, NOR MAY IT BE QUOTED OR EXCERPTED WITHOUT THE EXPRESS WRITTEN CONSENT OF ENGEO INCORPORATED.

### WATERSIDE RAPID DRAWDOWN



### LANDSIDE STEADY STATE SEEPAGE - 200 YEAR



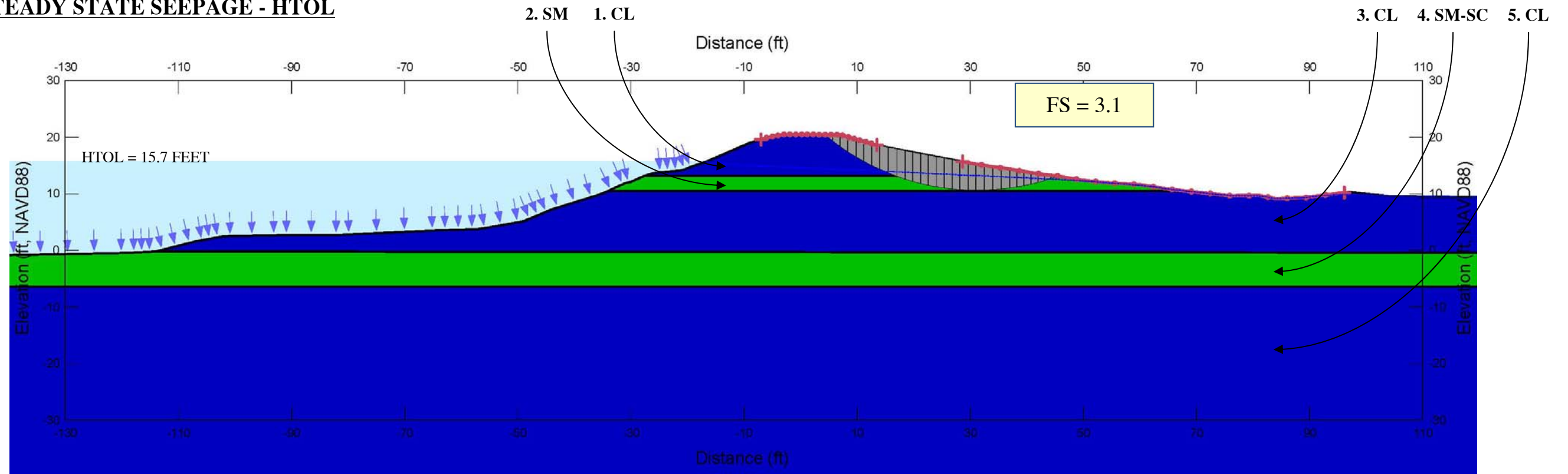
STATIC SLOPE STABILITY ANALYSIS  
REACH B - STA 079+72  
RECLAMATION DISTRICT NO. 17  
SAN JOAQUIN COUNTY, CALIFORNIA

PROJECT NO.: 5747.005.000
SCALE: NO SCALE
DRAWN BY: ZR
CHECKED BY: NS

FIGURE NO.  
E-4-D

COPYRIGHT © 2014 BY ENGEO INCORPORATED. THIS DOCUMENT MAY NOT BE REPRODUCED IN WHOLE OR IN PART BY ANY MEANS WHATSOEVER WITHOUT THE EXPRESS WRITTEN CONSENT OF ENGEO INCORPORATED.

### LANDSIDE STEADY STATE SEEPAGE - HTOL



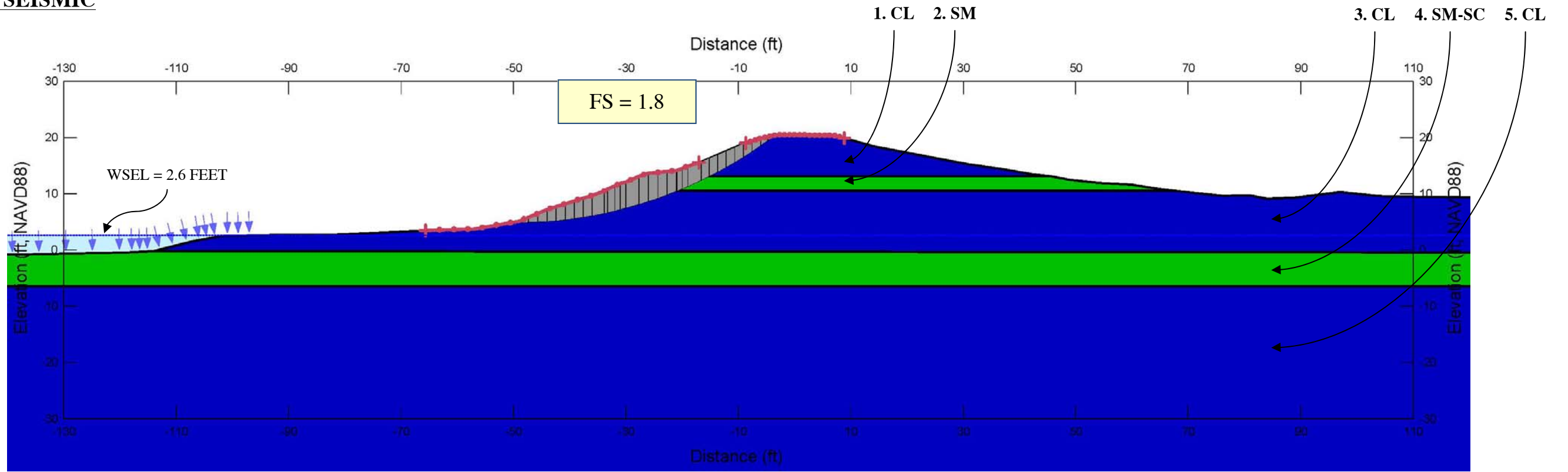
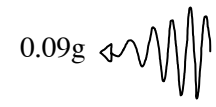
STATIC SLOPE STABILITY ANALYSIS  
 REACH B - STA 079+72  
 RECLAMATION DISTRICT NO. 17  
 SAN JOAQUIN COUNTY, CALIFORNIA

PROJECT NO.: 5747.005.000	
SCALE:	NO SCALE
DRAWN BY: ZR	CHECKED BY: NS

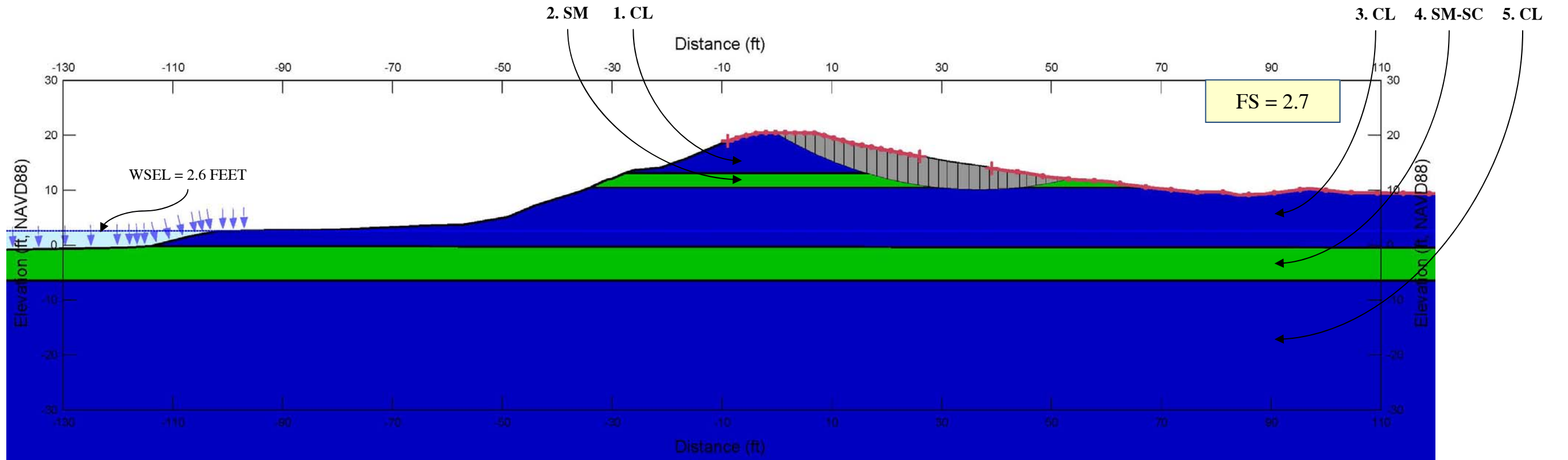
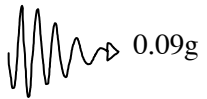
FIGURE NO.  
 E-4-E

COPYRIGHT © 2014 BY ENGEO INCORPORATED. THIS DOCUMENT MAY NOT BE REPRODUCED IN WHOLE OR IN PART BY ANY MEANS WHATSOEVER, NOR MAY IT BE QUOTED OR EXCERPTED WITHOUT THE EXPRESS WRITTEN CONSENT OF ENGEO INCORPORATED.

### WATERSIDE SEISMIC



### LANDSIDE SEISMIC



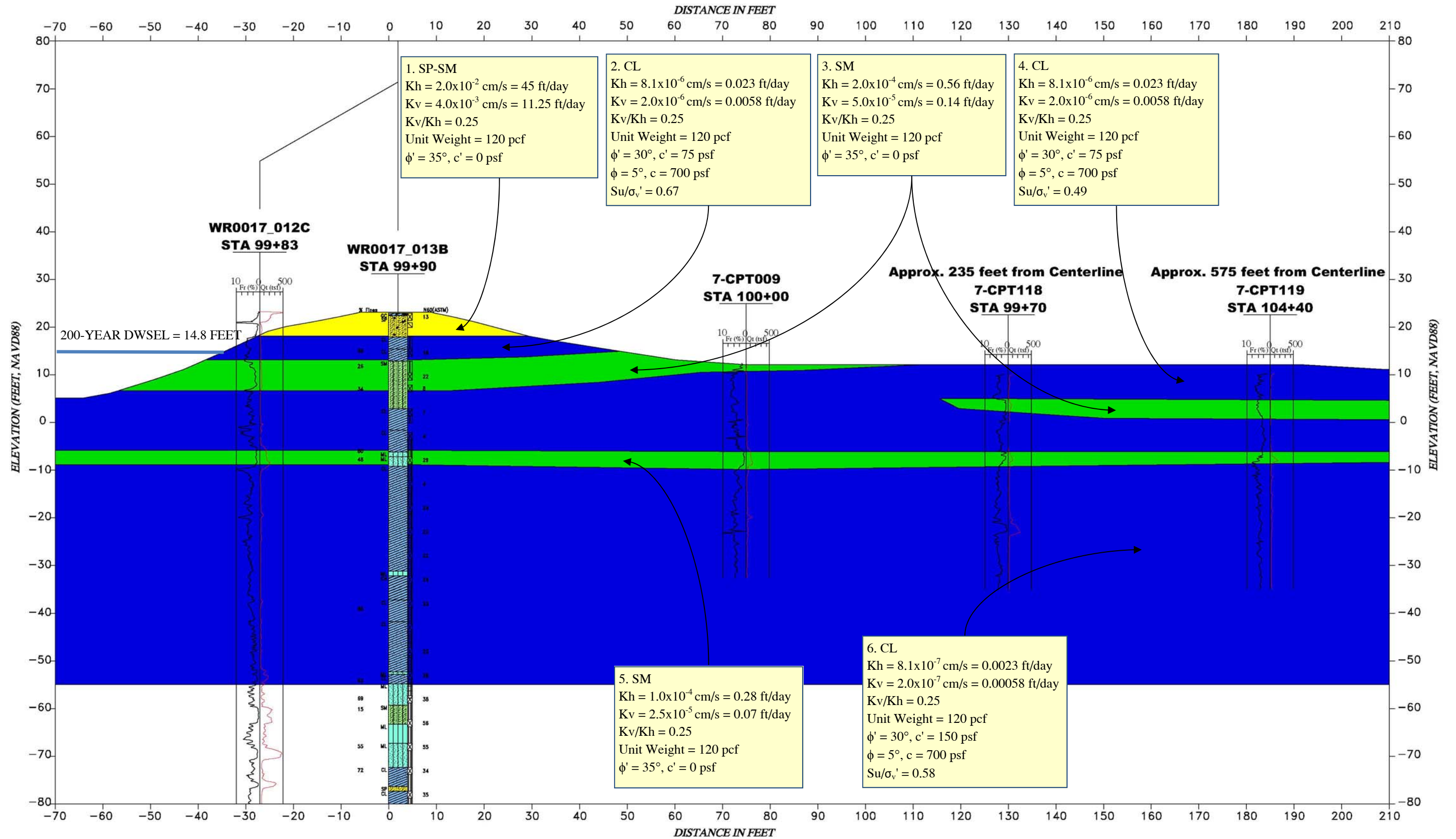
SEISMIC SLOPE STABILITY ANALYSIS  
 REACH B - STA 079+72  
 RECLAMATION DISTRICT NO. 17  
 SAN JOAQUIN COUNTY, CALIFORNIA

PROJECT NO.: 5747.005.000	
SCALE:	NO SCALE
DRAWN BY:	ZR
CHECKED BY:	NS

FIGURE NO.  
**E-4-F**

# WATERSIDE

# LANDSIDE



COPYRIGHT © 2014 BY ENGEO INCORPORATED. THIS DOCUMENT MAY NOT BE REPRODUCED IN WHOLE OR IN PART BY ANY MEANS WHATSOEVER, NOR MAY IT BE QUOTED OR EXCERPTED WITHOUT THE EXPRESS WRITTEN CONSENT OF ENGEO INCORPORATED.

10/16/2015 1:06 PM



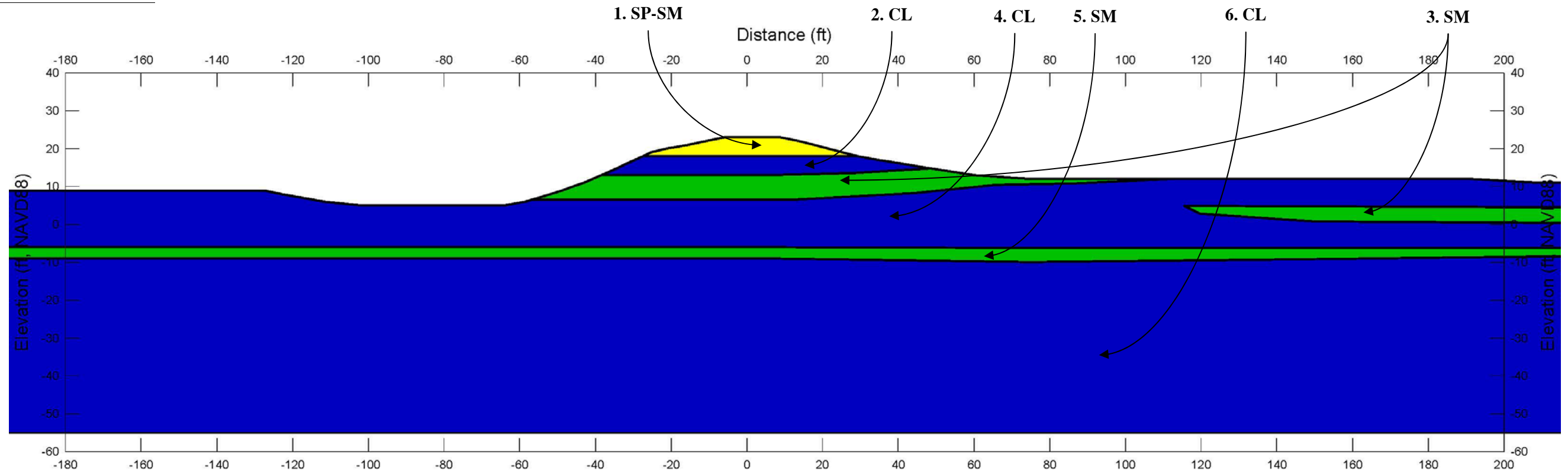
**CROSS SECTION & MATERIAL PARAMETERS**  
 REACH C1 - STA 100+10  
 RECLAMATION DISTRICT NO. 17  
 SAN JOAQUIN COUNTY, CALIFORNIA

PROJECT NO.: 5747.005.000	
SCALE:	NO SCALE
DRAWN BY: AL	CHECKED BY: BA

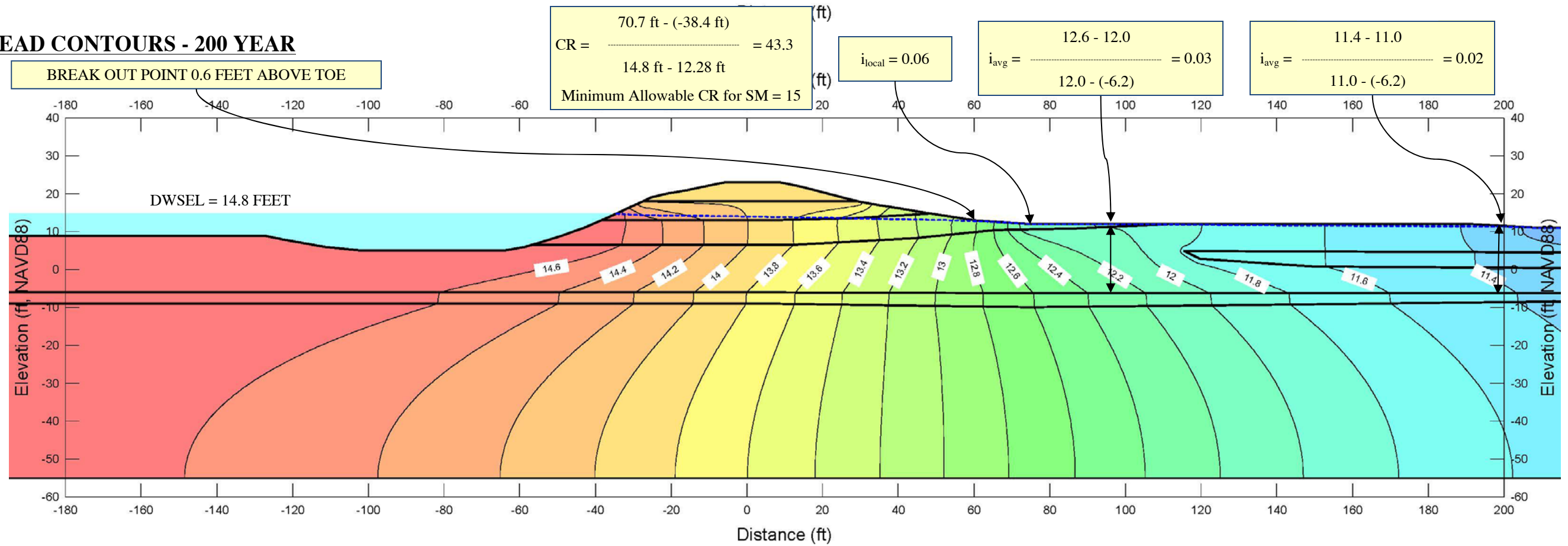
FIGURE NO.  
**E-5-A**

COPYRIGHT © 2014 BY ENGEO INCORPORATED. THIS DOCUMENT MAY NOT BE REPRODUCED IN WHOLE OR IN PART BY ANY MEANS WHATSOEVER, NOR MAY IT BE QUOTED OR EXCERPTED WITHOUT THE EXPRESS WRITTEN CONSENT OF ENGEO INCORPORATED.

## GEOMETRY OF MODEL

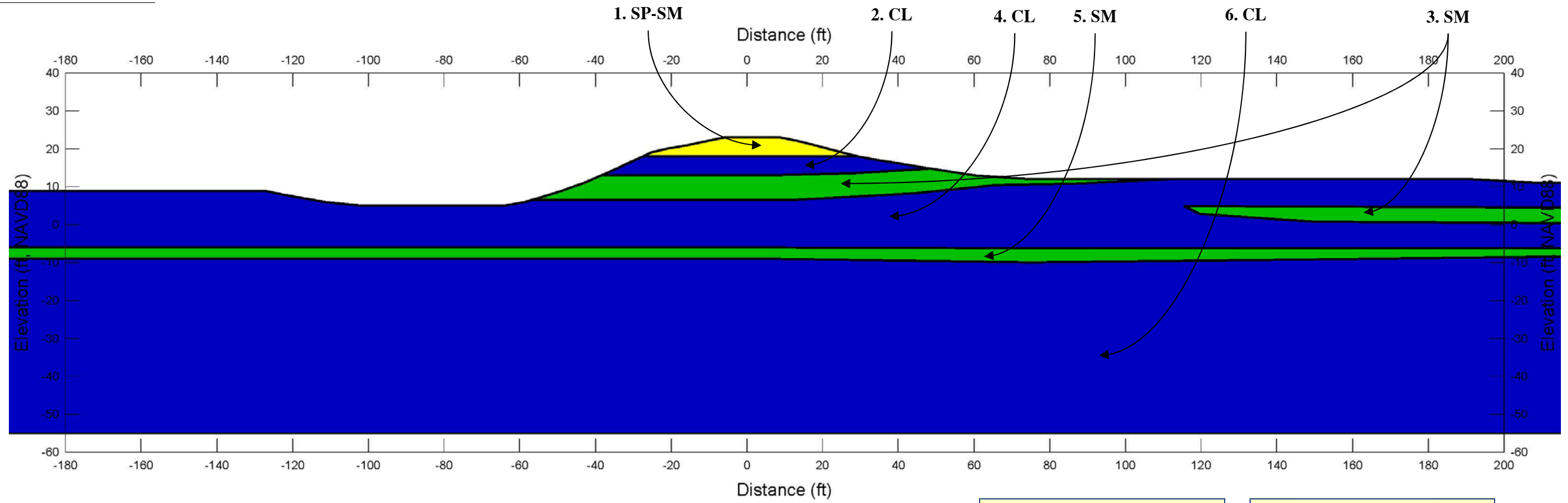


## TOTAL HEAD CONTOURS - 200 YEAR

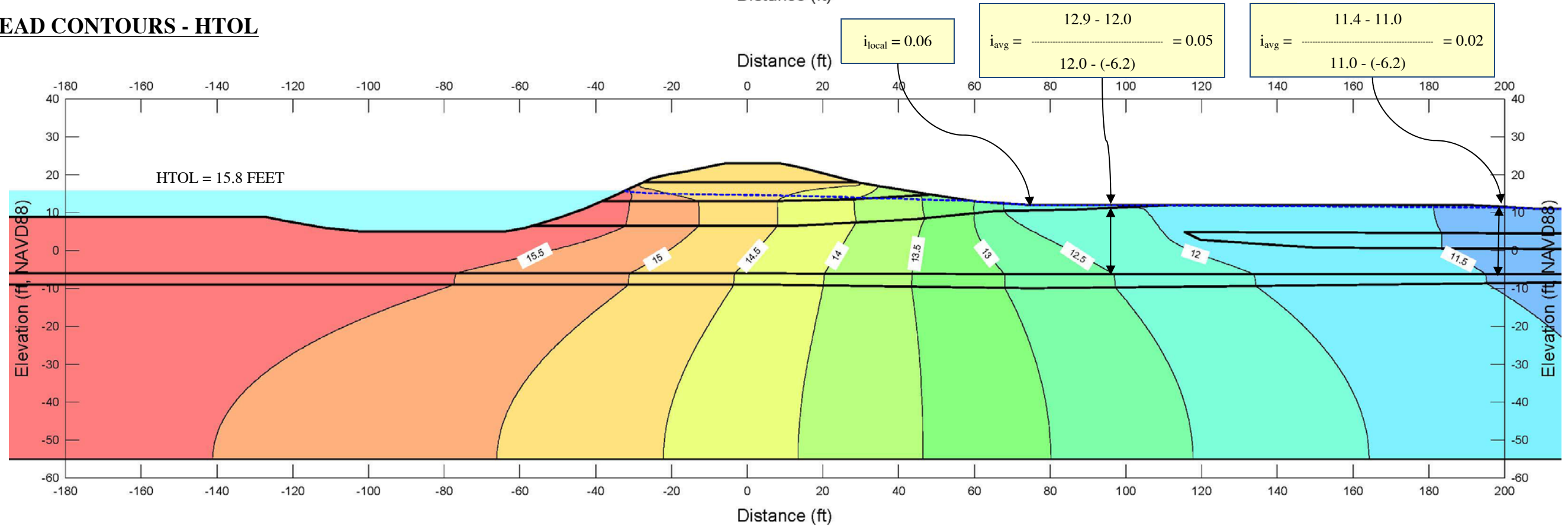


COPYRIGHT © 2014 BY ENGEO INCORPORATED. THIS DOCUMENT MAY NOT BE REPRODUCED IN WHOLE OR IN PART BY ANY MEANS WHATSOEVER, NOR MAY IT BE QUOTED OR EXCERPTED WITHOUT THE EXPRESS WRITTEN CONSENT OF ENGEO INCORPORATED.

## GEOMETRY OF MODEL

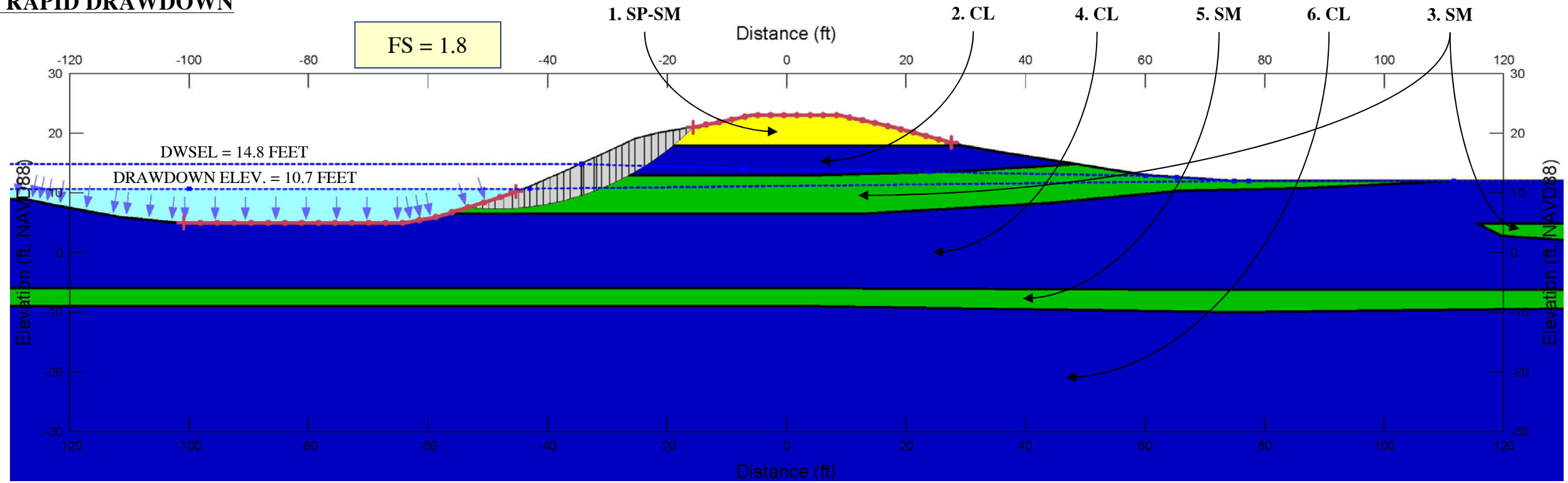


## TOTAL HEAD CONTOURS - HTOL

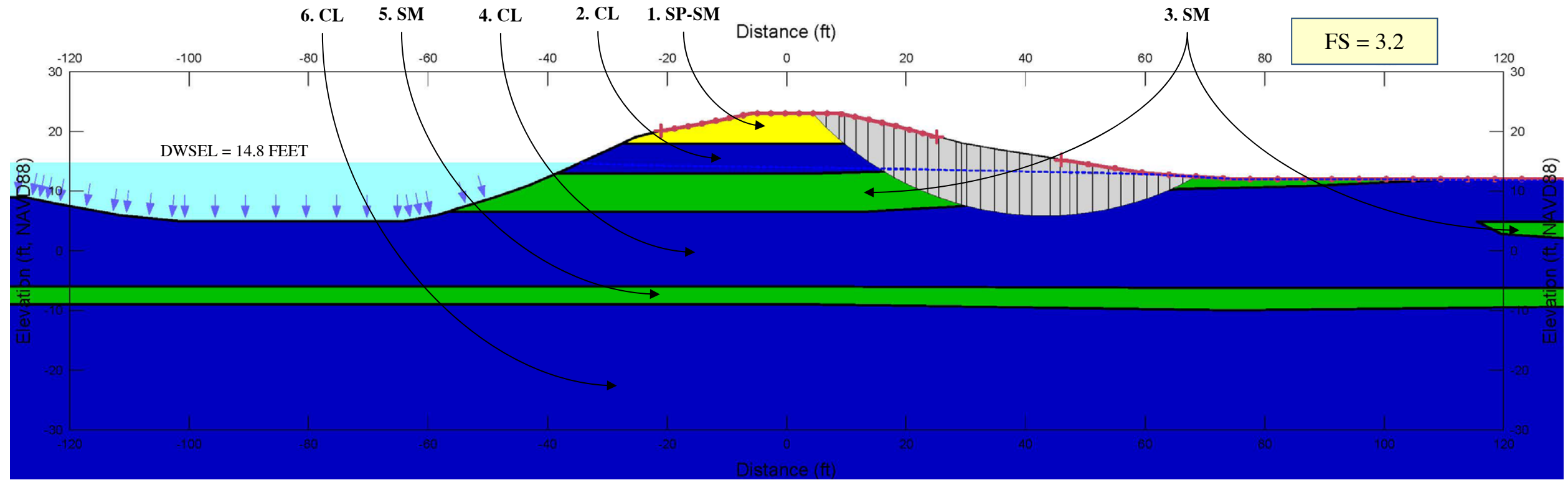


COPYRIGHT © 2014 BY ENGEO INCORPORATED. THIS DOCUMENT MAY NOT BE REPRODUCED IN WHOLE OR IN PART BY ANY MEANS WHATSOEVER, NOR MAY IT BE QUOTED OR EXCERPTED WITHOUT THE EXPRESS WRITTEN CONSENT OF ENGEO INCORPORATED.

### WATERSIDE RAPID DRAWDOWN



### LANDSIDE STEADY STATE SEEPAGE - 200 YEAR



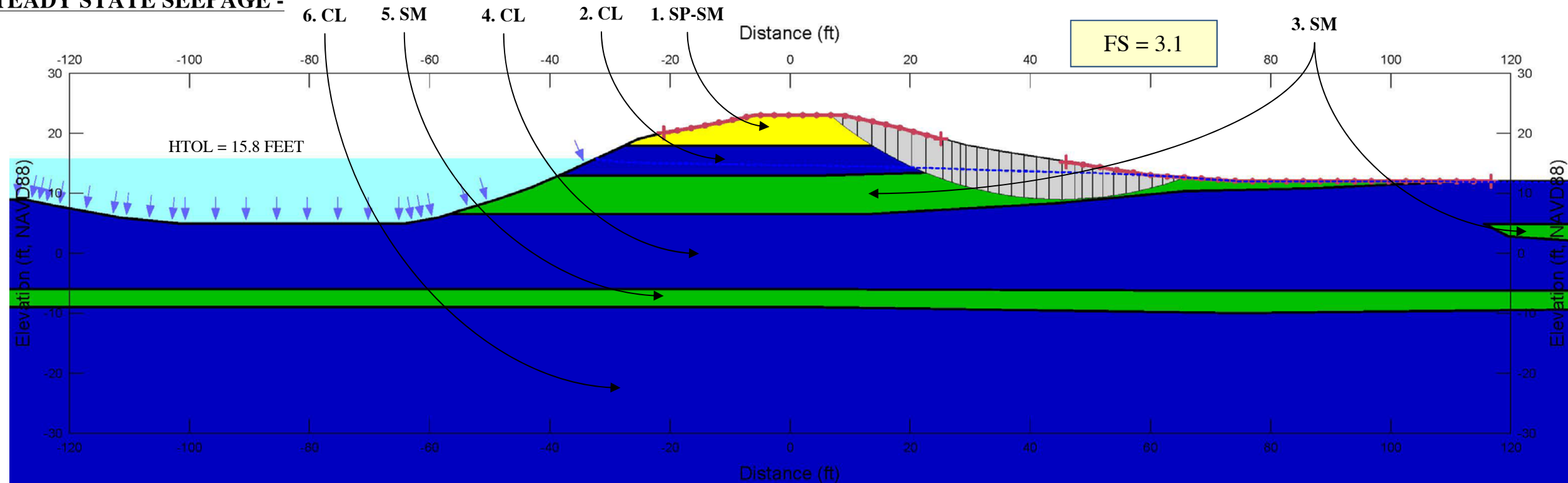
STATIC SLOPE STABILITY ANALYSIS  
 REACH C1 - STA 100+10  
 RECLAMATION DISTRICT NO. 17  
 SAN JOAQUIN COUNTY, CALIFORNIA

PROJECT NO.: 5747.005.000	
SCALE: NO SCALE	
DRAWN BY: AL	CHECKED BY: NS

FIGURE NO.  
**E-5-D**

COPYRIGHT © 2014 BY ENGEO INCORPORATED. THIS DOCUMENT MAY NOT BE REPRODUCED IN WHOLE OR IN PART BY ANY MEANS WHATSOEVER WITHOUT THE EXPRESS WRITTEN CONSENT OF ENGEO INCORPORATED.

### LANDSIDE STEADY STATE SEEPAGE -



STATIC SLOPE STABILITY ANALYSIS  
REACH C1 - STA 100+10  
RECLAMATION DISTRICT NO. 17  
SAN JOAQUIN COUNTY, CALIFORNIA

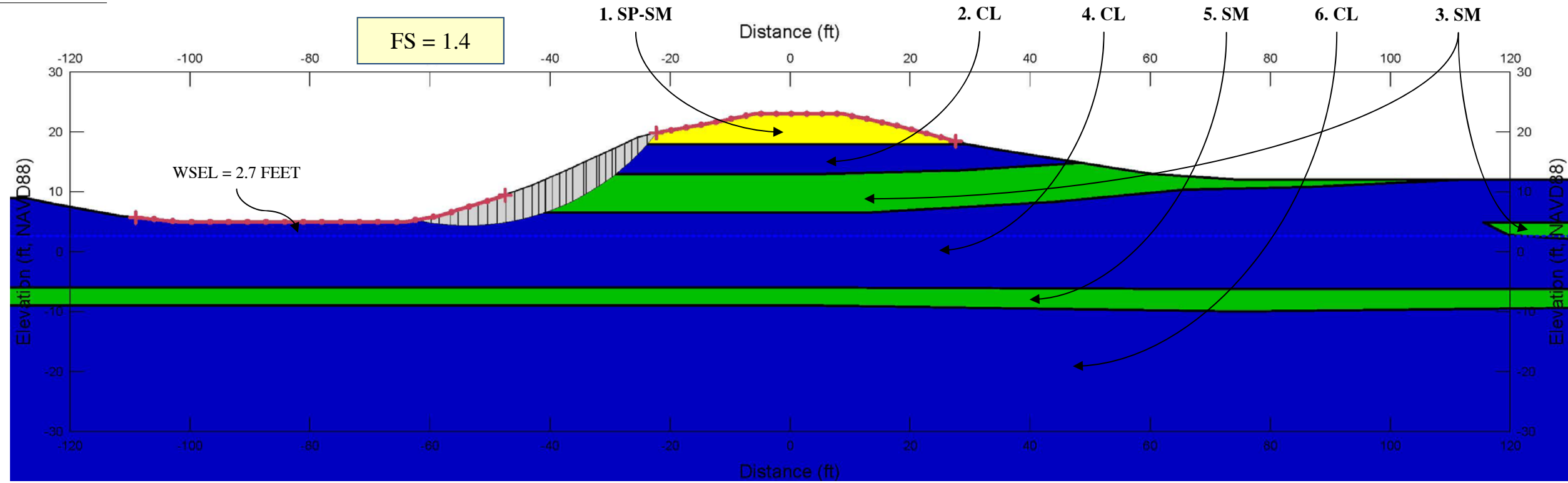
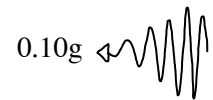
PROJECT NO.: 5747.005.000	
SCALE: NO SCALE	
DRAWN BY: AL	CHECKED BY: NS

FIGURE NO.  
**E-5-E**

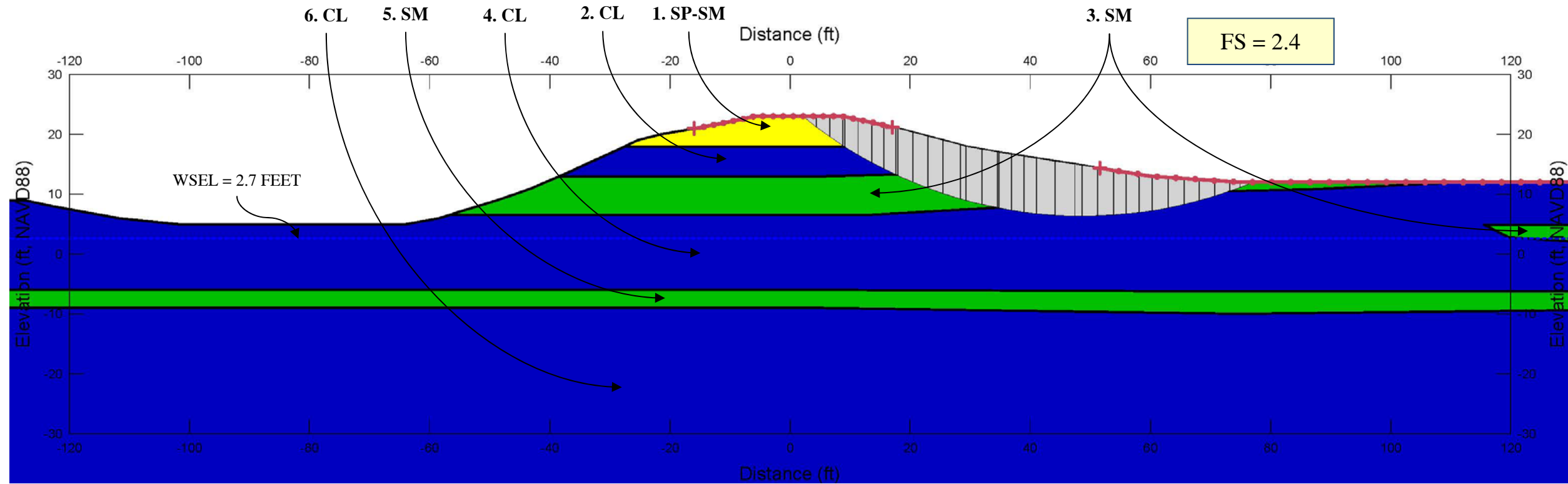
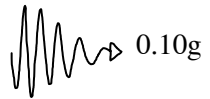


COPYRIGHT © 2014 BY ENGEO INCORPORATED. THIS DOCUMENT MAY NOT BE REPRODUCED IN WHOLE OR IN PART BY ANY MEANS WHATSOEVER, NOR MAY IT BE QUOTED OR EXCERPTED WITHOUT THE EXPRESS WRITTEN CONSENT OF ENGEO INCORPORATED.

### WATERSIDE SEISMIC



### LANDSIDE SEISMIC



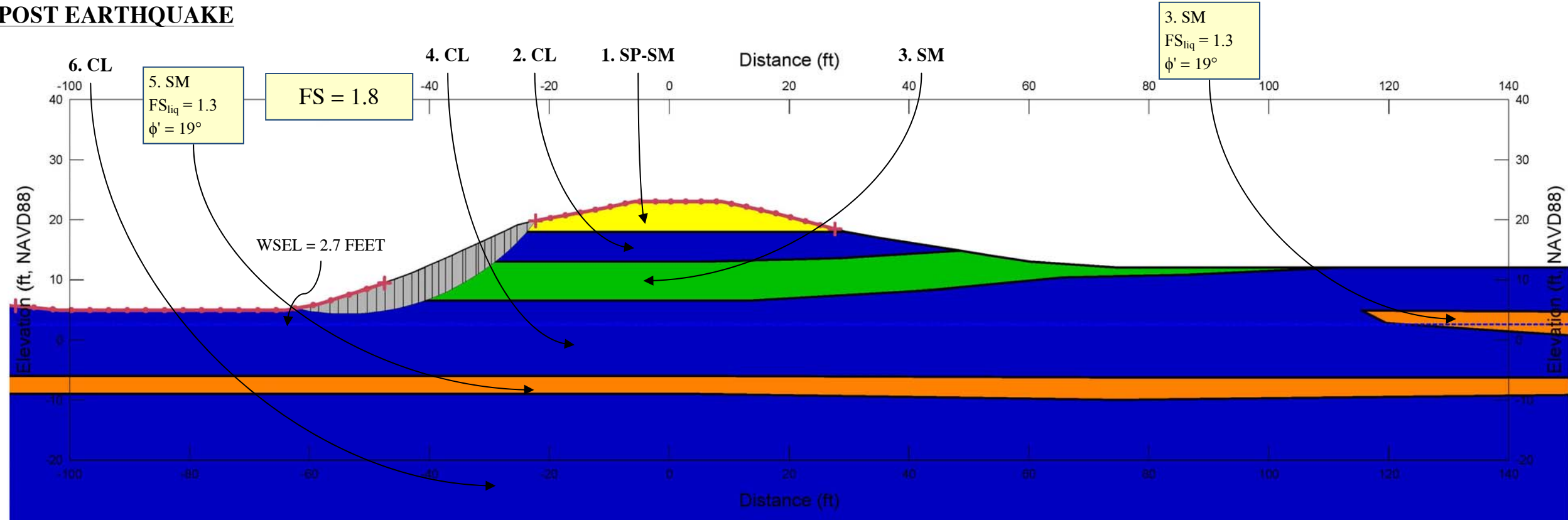
SEISMIC SLOPE STABILITY ANALYSIS  
 REACH C1 - STA 100+10  
 RECLAMATION DISTRICT NO. 17  
 SAN JOAQUIN COUNTY, CALIFORNIA

PROJECT NO.: 5747.005.000	
SCALE: NO SCALE	
DRAWN BY: AL	CHECKED BY: NS

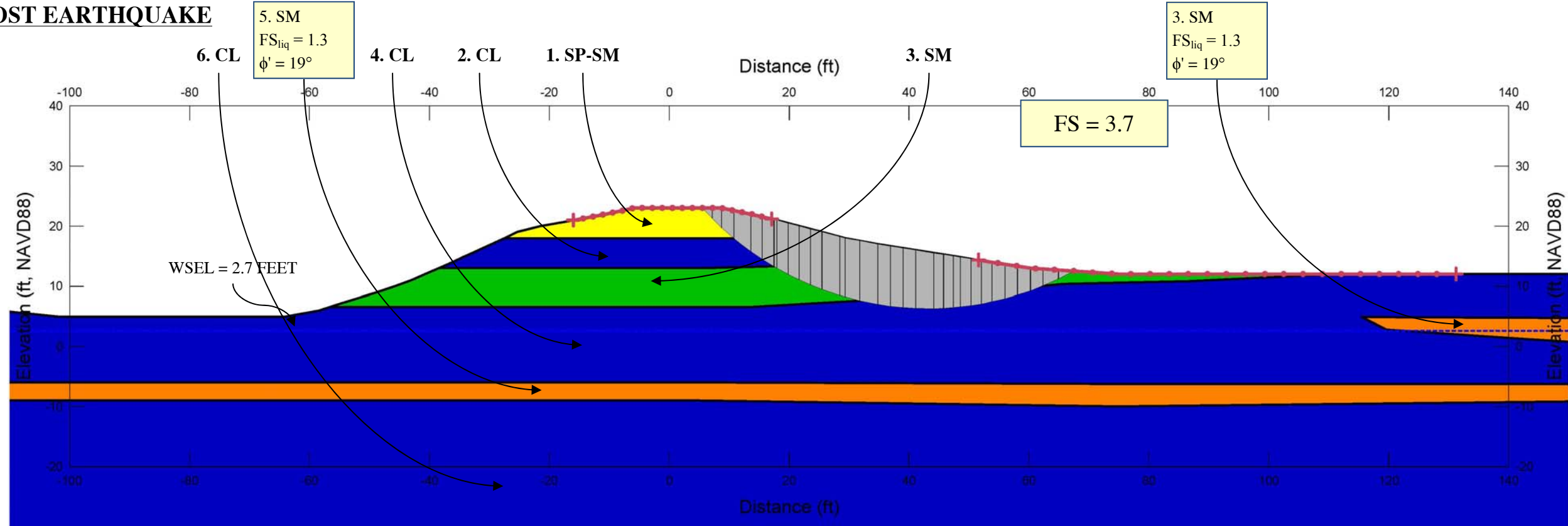
FIGURE NO.  
**E-5-F**

COPYRIGHT © 2014 BY ENGEO INCORPORATED. THIS DOCUMENT MAY NOT BE REPRODUCED IN WHOLE OR IN PART BY ANY MEANS WHATSOEVER, NOR MAY IT BE QUOTED OR EXCERPTED WITHOUT THE EXPRESS WRITTEN CONSENT OF ENGEO INCORPORATED.

### WATERSIDE POST EARTHQUAKE



### LANDSIDE POST EARTHQUAKE



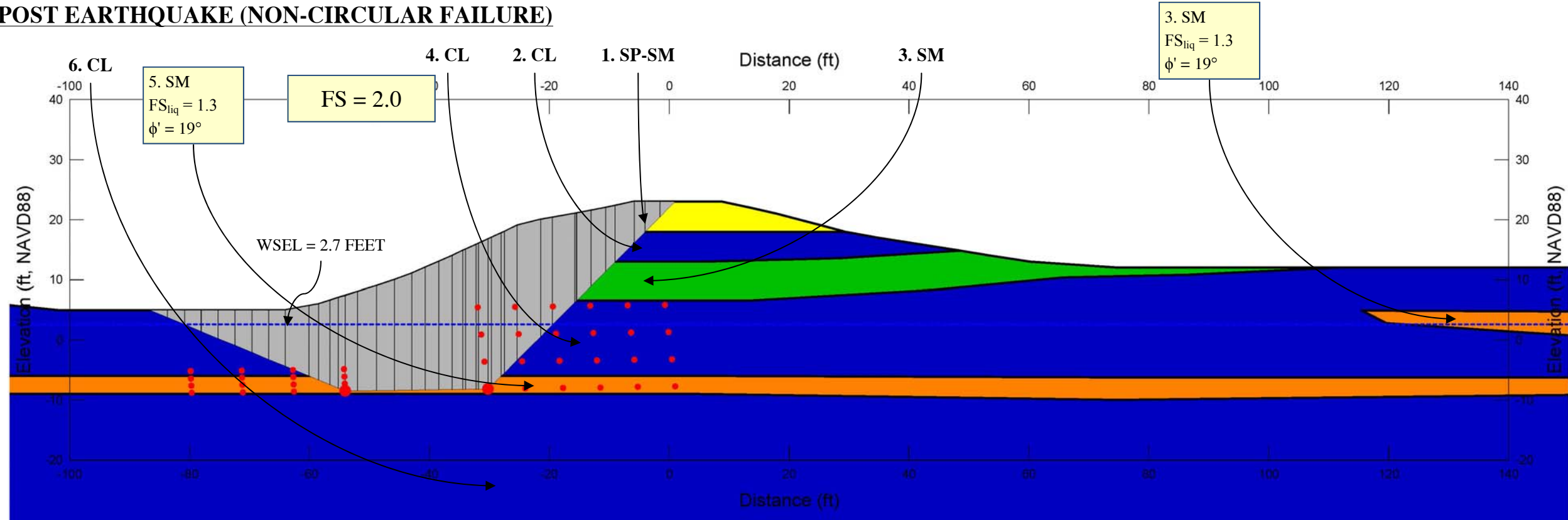
SEISMIC SLOPE STABILITY ANALYSIS  
 REACH C1 - STA 100+10  
 RECLAMATION DISTRICT NO. 17  
 SAN JOAQUIN COUNTY, CALIFORNIA

PROJECT NO.: 5747.005.000	
SCALE: NO SCALE	
DRAWN BY: BA	CHECKED BY: CC

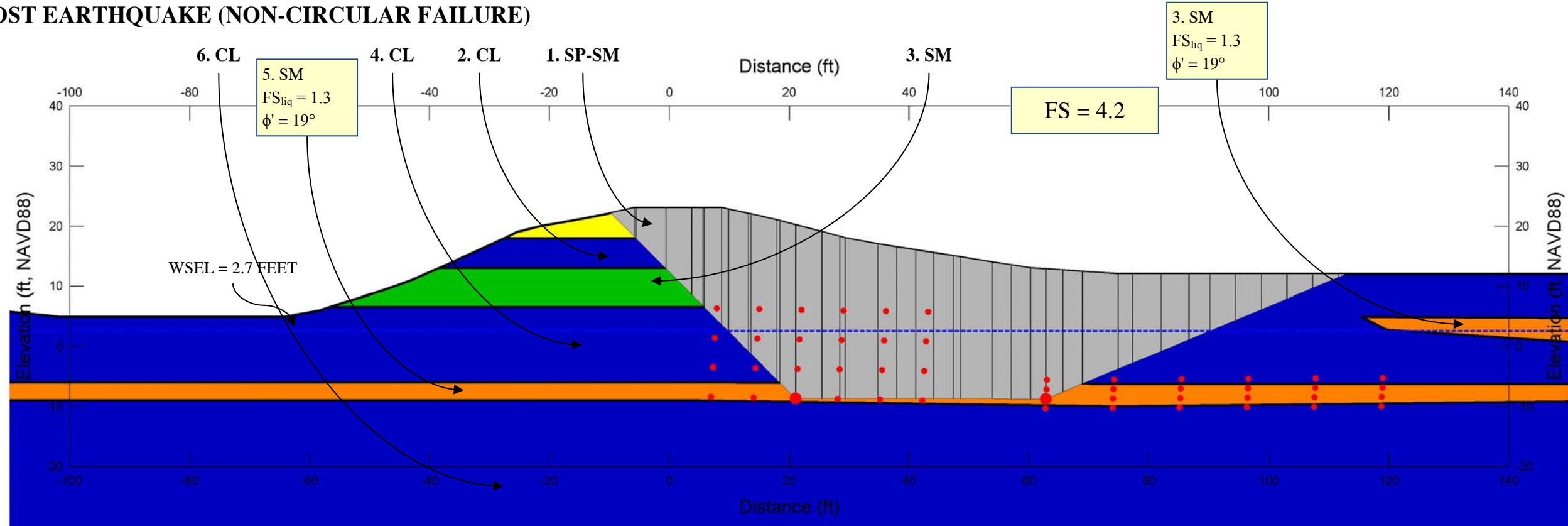
FIGURE NO.  
**E-5-G**

COPYRIGHT © 2014 BY ENGEO INCORPORATED. THIS DOCUMENT MAY NOT BE REPRODUCED IN WHOLE OR IN PART BY ANY MEANS WHATSOEVER, NOR MAY IT BE QUOTED OR EXCERPTED WITHOUT THE EXPRESS WRITTEN CONSENT OF ENGEO INCORPORATED.

**WATERSIDE POST EARTHQUAKE (NON-CIRCULAR FAILURE)**



**LANDSIDE POST EARTHQUAKE (NON-CIRCULAR FAILURE)**



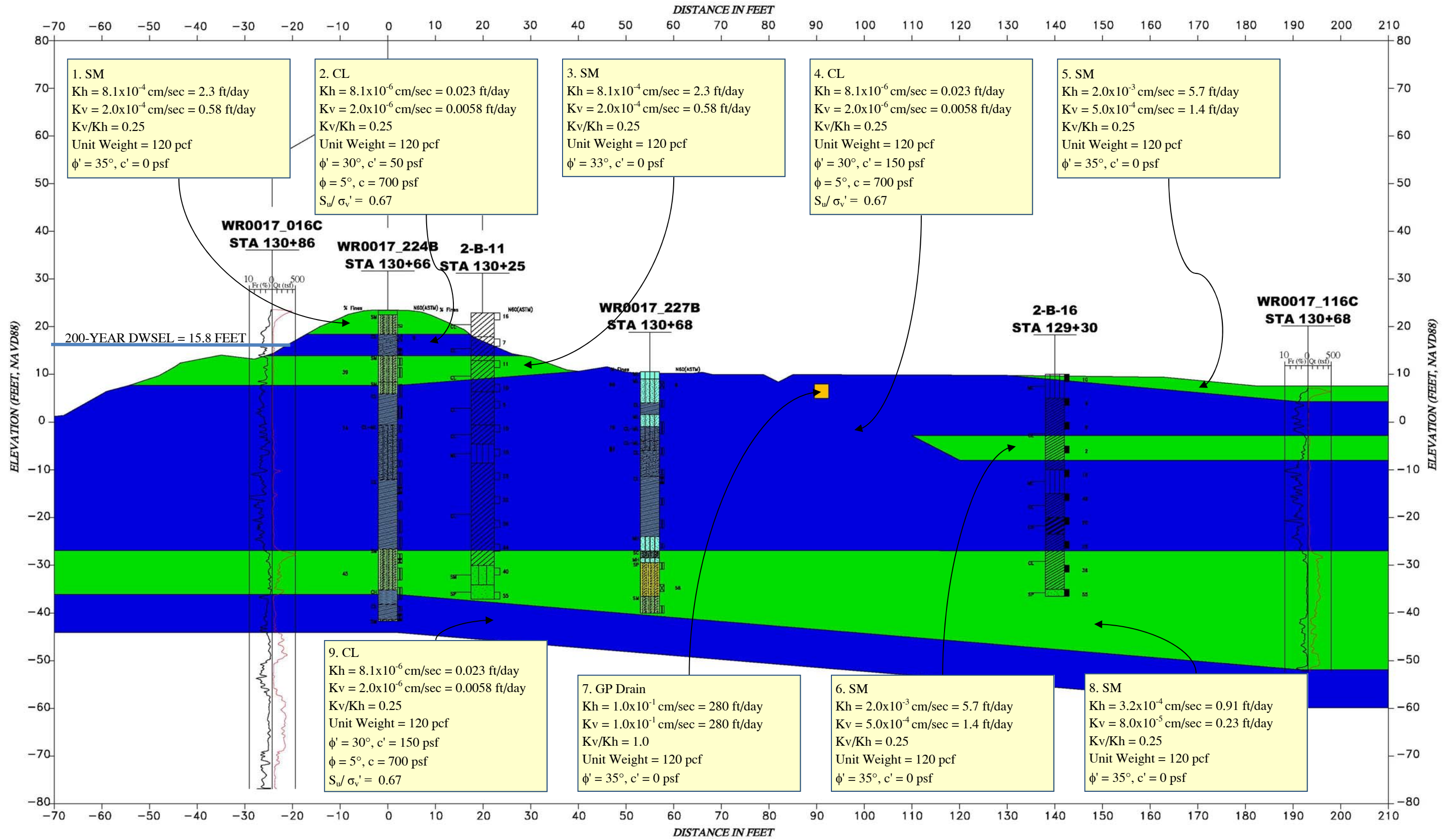
SEISMIC SLOPE STABILITY ANALYSIS  
 REACH C1 - STA 100+10  
 RECLAMATION DISTRICT NO. 17  
 SAN JOAQUIN COUNTY, CALIFORNIA

PROJECT NO.: 5747.005.000	
SCALE:	NO SCALE
DRAWN BY:	BA
CHECKED BY:	CC

FIGURE NO.  
**E-5-H**

# WATERSIDE

# LANDSIDE



COPYRIGHT © 2014 BY ENGEEO INCORPORATED. THIS DOCUMENT MAY NOT BE REPRODUCED IN WHOLE OR IN PART BY ANY MEANS WHATSOEVER, NOR MAY IT BE QUOTED OR EXCERPTED WITHOUT THE EXPRESS WRITTEN CONSENT OF ENGEEO INCORPORATED.



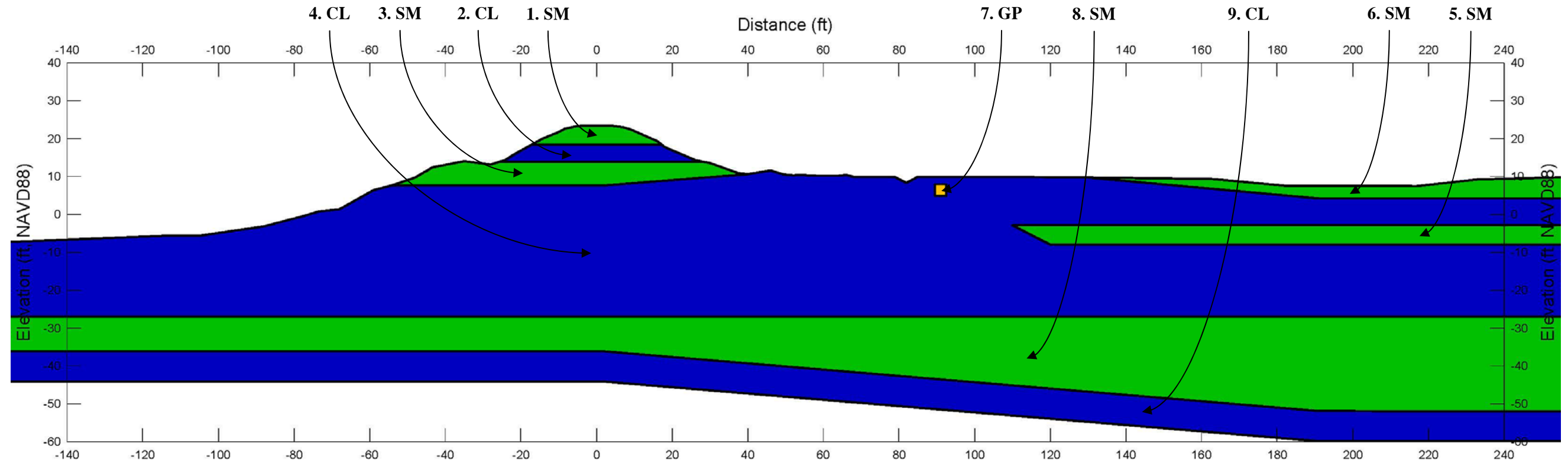
CROSS SECTION & MATERIAL PARAMETERS  
 REACH C2 - STA 130+85  
 RECLAMATION DISTRICT NO. 17  
 SAN JOAQUIN COUNTY, CALIFORNIA

PROJECT NO.: 5747.005.000	
SCALE:	NO SCALE
DRAWN BY:	AL
CHECKED BY:	BA

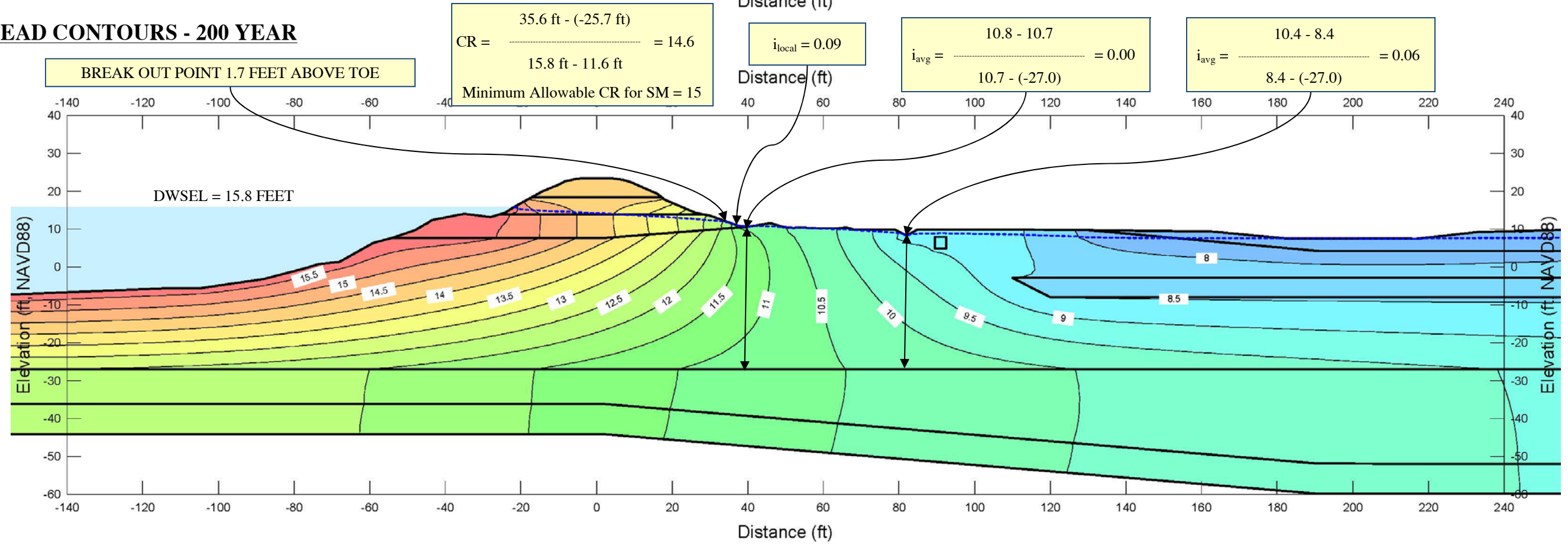
FIGURE NO.  
**E-6-A**

COPYRIGHT © 2014 BY ENGEO INCORPORATED. THIS DOCUMENT MAY NOT BE REPRODUCED IN WHOLE OR IN PART BY ANY MEANS WHATSOEVER, NOR MAY IT BE QUOTED OR EXCERPTED WITHOUT THE EXPRESS WRITTEN CONSENT OF ENGEO INCORPORATED.

### GEOMETRY OF MODEL



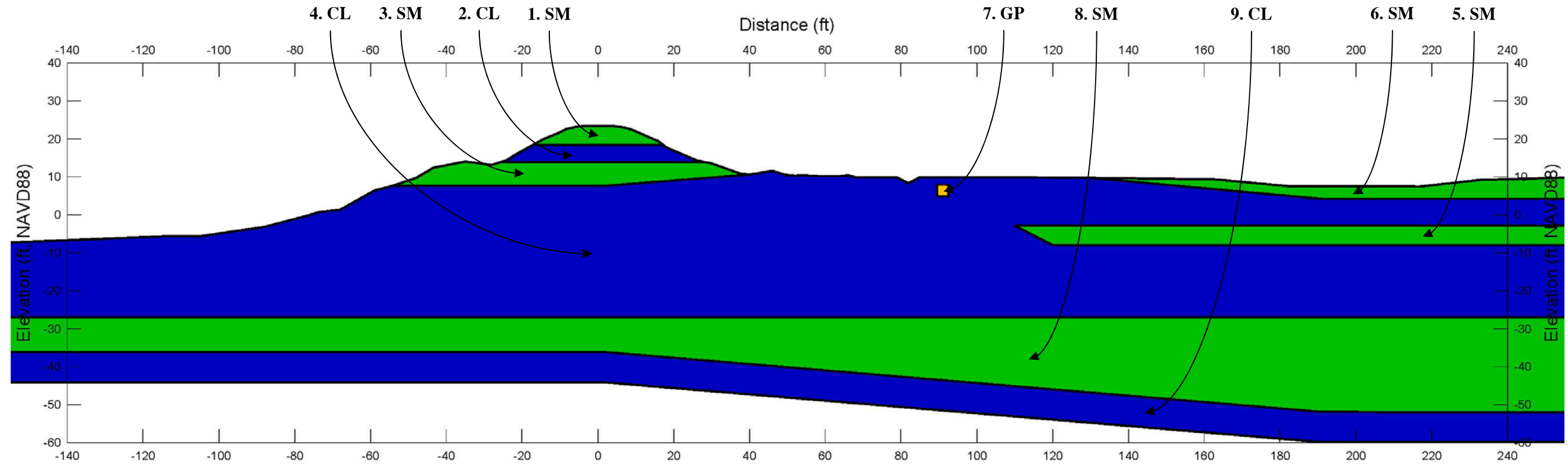
### TOTAL HEAD CONTOURS - 200 YEAR



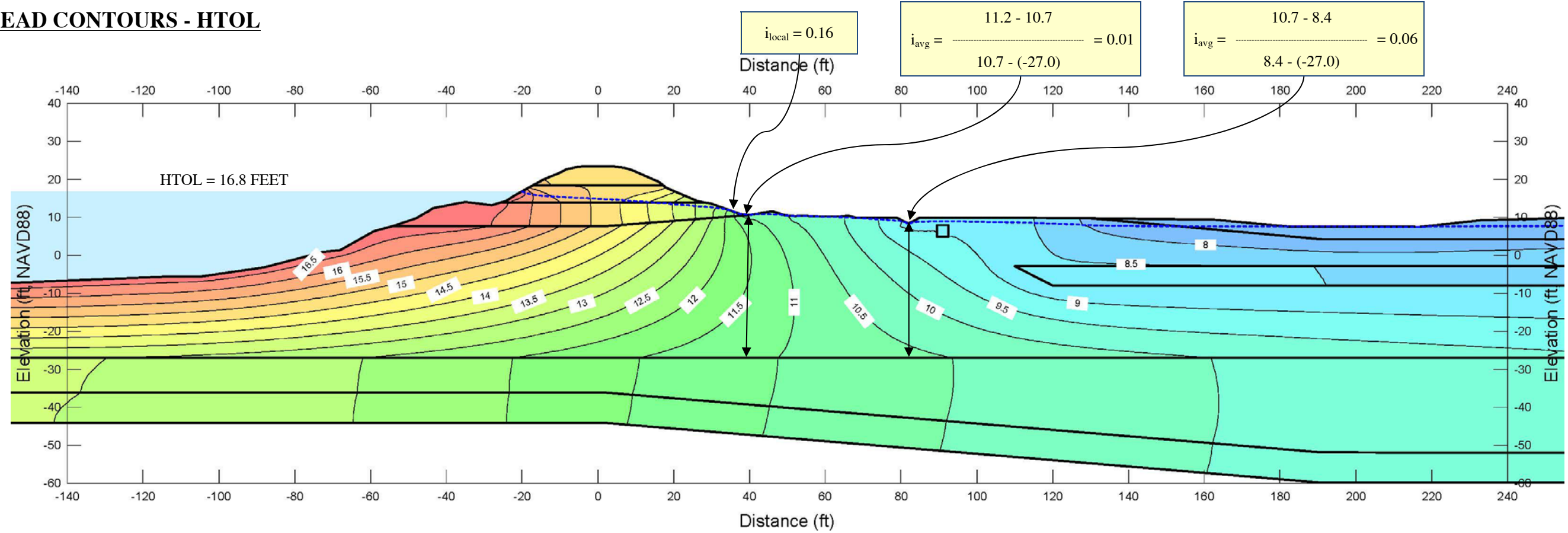
	SEEPAGE ANALYSIS REACH C2 - STA 130+85 RECLAMATION DISTRICT NO. 17 SAN JOAQUIN COUNTY, CALIFORNIA		PROJECT NO.: 5747.005.000	FIGURE NO.  <b>E-6-B</b>
			SCALE: NO SCALE	
	DRAWN BY: AL	CHECKED BY: NS		

COPYRIGHT © 2014 BY ENGEO INCORPORATED. THIS DOCUMENT MAY NOT BE REPRODUCED IN WHOLE OR IN PART BY ANY MEANS WHATSOEVER, NOR MAY IT BE QUOTED OR EXCERPTED WITHOUT THE EXPRESS WRITTEN CONSENT OF ENGEO INCORPORATED.

**GEOMETRY OF MODEL**



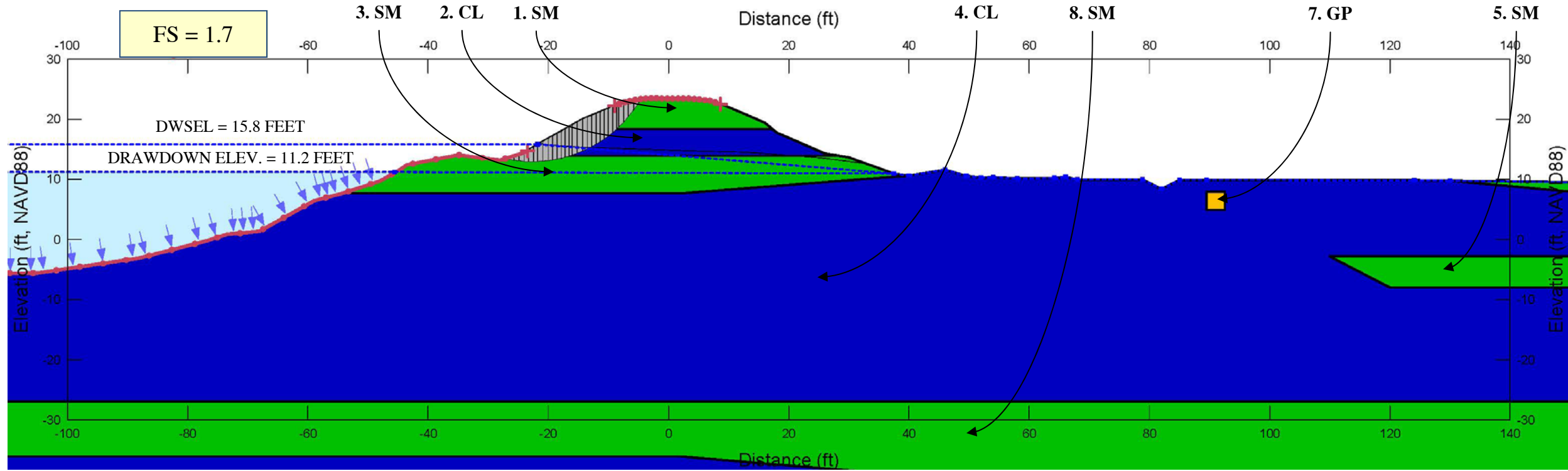
**TOTAL HEAD CONTOURS - HTOL**



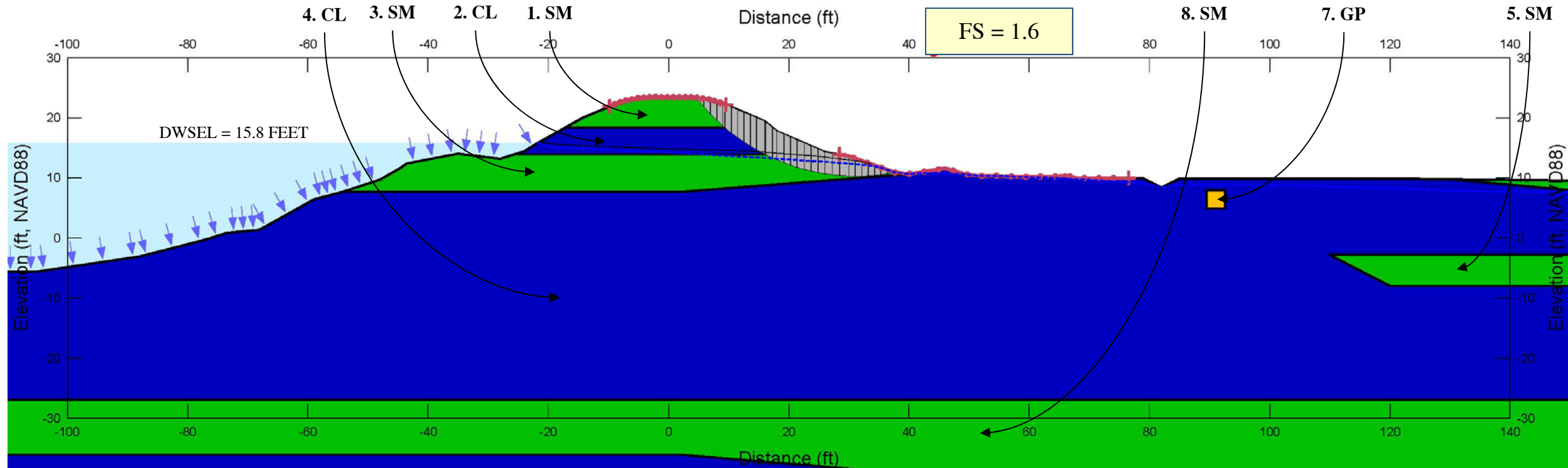
	SEEPAGE ANALYSIS REACH C2 - STA 130+85 RECLAMATION DISTRICT NO. 17 SAN JOAQUIN COUNTY, CALIFORNIA		PROJECT NO.: 5747.005.000	FIGURE NO.
			SCALE: NO SCALE	E-6-C
			DRAWN BY: AL    CHECKED BY: NS	


COPYRIGHT © 2014 BY ENGEO INCORPORATED. THIS DOCUMENT MAY NOT BE REPRODUCED IN WHOLE OR IN PART BY ANY MEANS WHATSOEVER, NOR MAY IT BE QUOTED OR EXCERPTED WITHOUT THE EXPRESS WRITTEN CONSENT OF ENGEO INCORPORATED.

### WATERSIDE RAPID DRAWDOWN



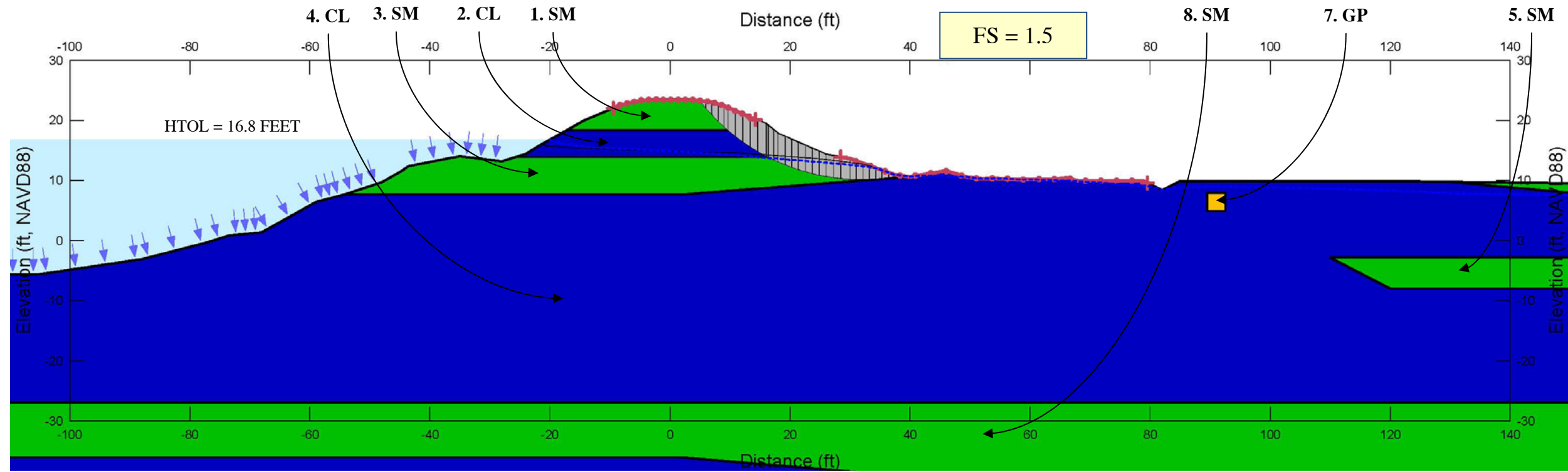
### LANDSIDE STEADY STATE SEEPAGE - 200 YEAR



 <p>Expect Excellence</p>	STATIC SLOPE STABILITY ANALYSIS REACH C2 - STA 130+85 RECLAMATION DISTRICT NO. 17 SAN JOAQUIN COUNTY, CALIFORNIA		PROJECT NO.: 5747.005.000	FIGURE NO. E-6-D
			SCALE: NO SCALE	
			DRAWN BY: AL	CHECKED BY: NS

COPYRIGHT © 2014 BY ENGEO INCORPORATED. THIS DOCUMENT MAY NOT BE REPRODUCED IN WHOLE OR IN PART BY ANY MEANS WHATSOEVER WITHOUT THE EXPRESS WRITTEN CONSENT OF ENGEO INCORPORATED.

### LANDSIDE STEADY STATE SEEPAGE - HTOL



STATIC SLOPE STABILITY ANALYSIS  
 REACH C2 - STA 130+85  
 RECLAMATION DISTRICT NO. 17  
 SAN JOAQUIN COUNTY, CALIFORNIA

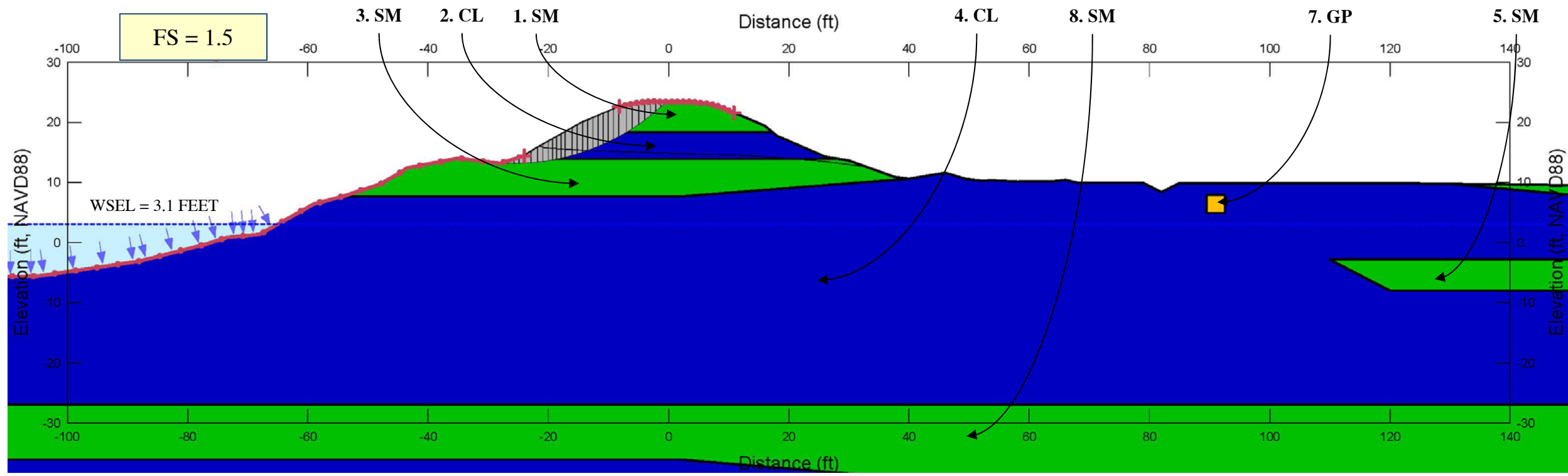
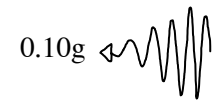
PROJECT NO.: 5747.005.000	
SCALE: NO SCALE	
DRAWN BY: AL	CHECKED BY: NS

FIGURE NO.  
**E-6-E**

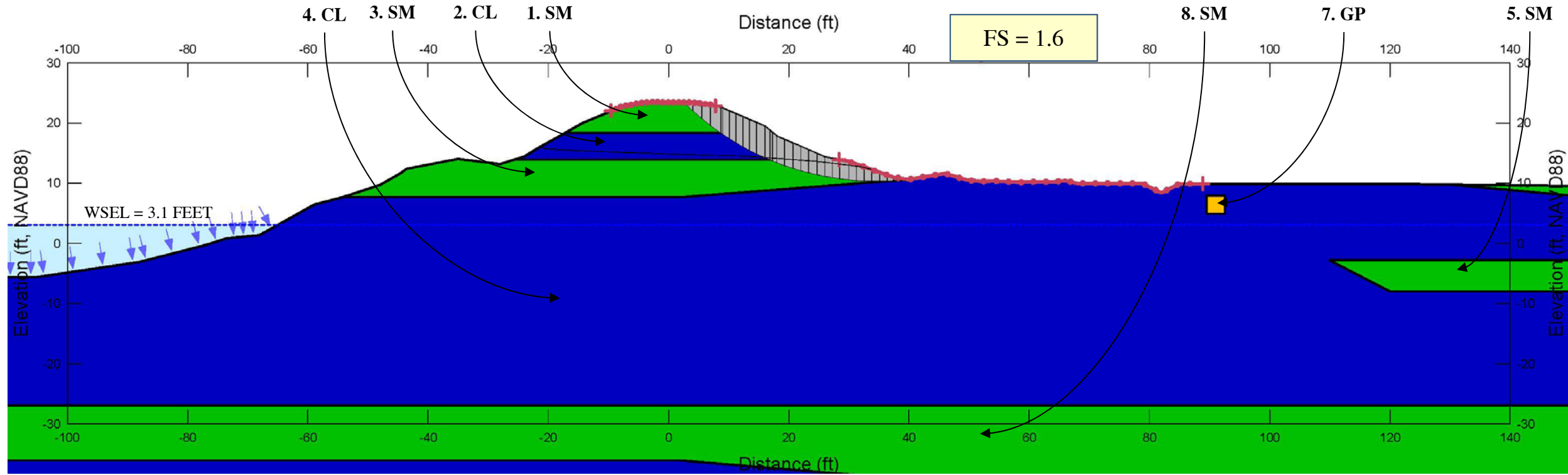
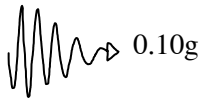


COPYRIGHT © 2014 BY ENGEO INCORPORATED. THIS DOCUMENT MAY NOT BE REPRODUCED IN WHOLE OR IN PART BY ANY MEANS WHATSOEVER, NOR MAY IT BE QUOTED OR EXCERPTED WITHOUT THE EXPRESS WRITTEN CONSENT OF ENGEO INCORPORATED.

### WATERSIDE SEISMIC



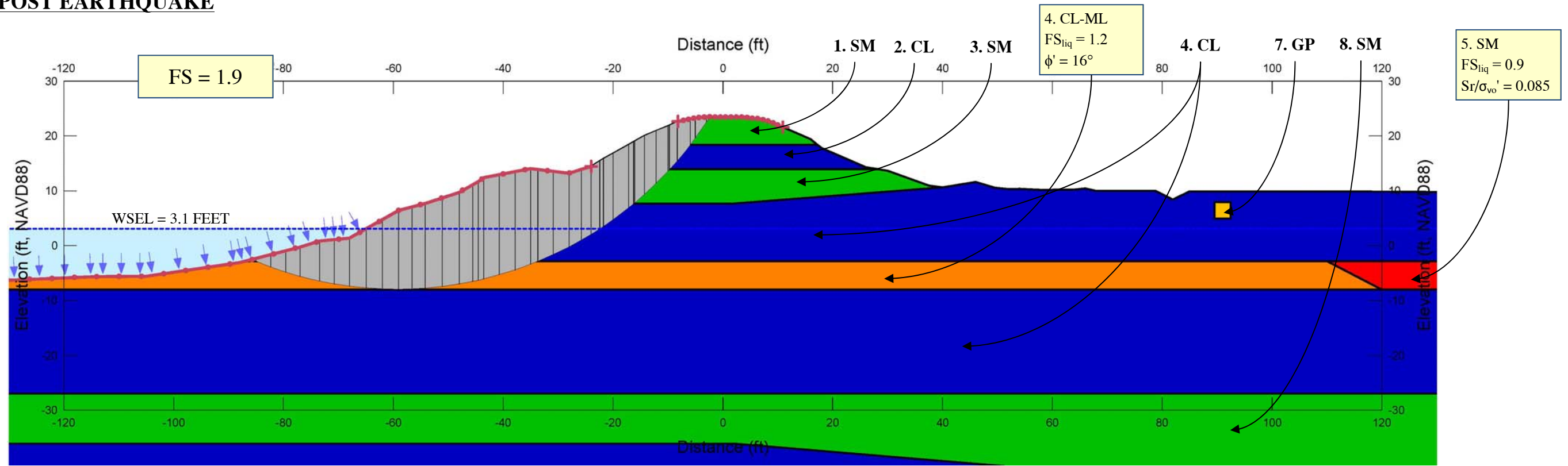
### LANDSIDE SEISMIC



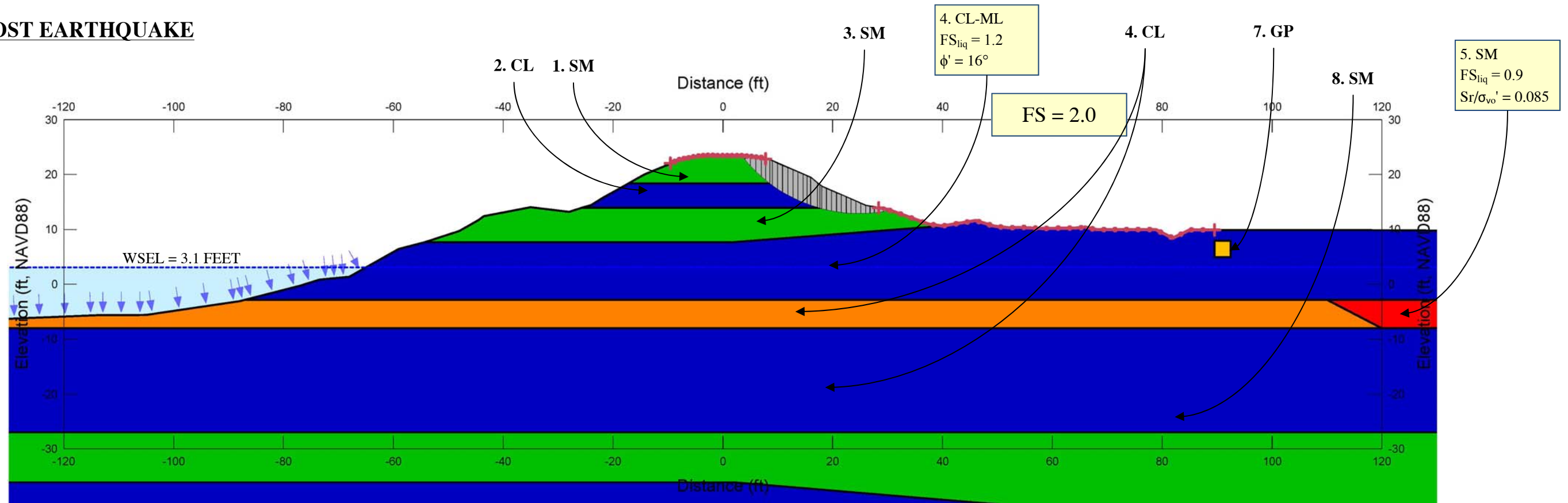
	SEISMIC SLOPE STABILITY ANALYSIS REACH C2 - STA 130+85 RECLAMATION DISTRICT NO. 17 SAN JOAQUIN COUNTY, CALIFORNIA		PROJECT NO.: 5747.005.000	FIGURE NO. <b>E-6-F</b>	
			SCALE: NO SCALE		
			DRAWN BY: AL		CHECKED BY: NS

COPYRIGHT © 2014 BY ENGEO INCORPORATED. THIS DOCUMENT MAY NOT BE REPRODUCED IN WHOLE OR IN PART BY ANY MEANS WHATSOEVER, NOR MAY IT BE QUOTED OR EXCERPTED WITHOUT THE EXPRESS WRITTEN CONSENT OF ENGEO INCORPORATED.

### WATERSIDE POST EARTHQUAKE



### LANDSIDE POST EARTHQUAKE



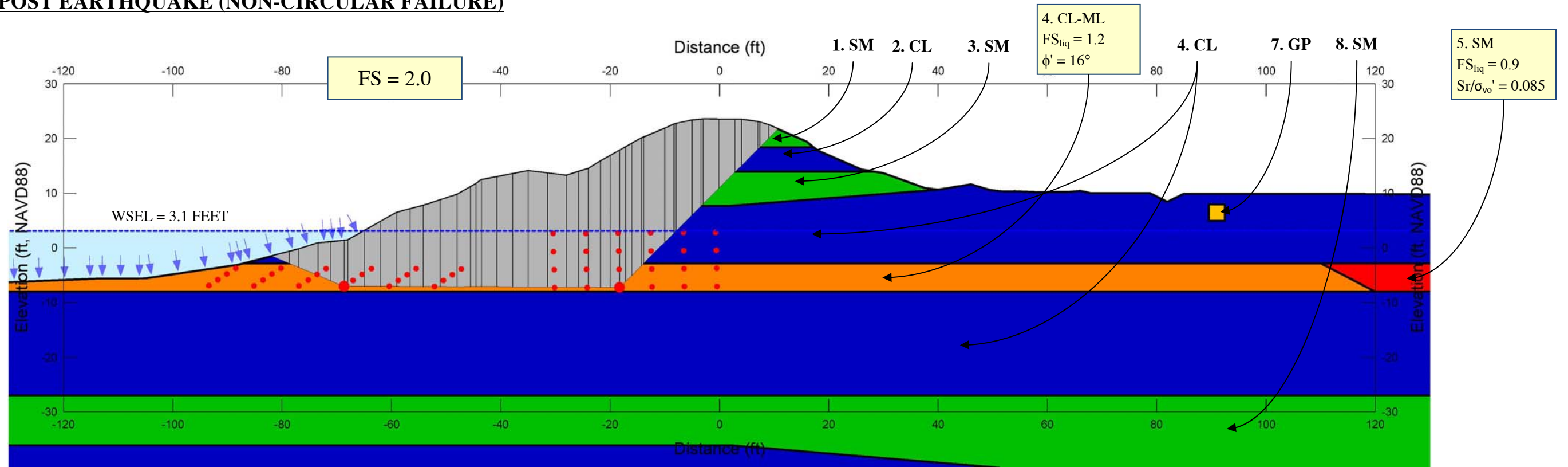
SEISMIC SLOPE STABILITY ANALYSIS  
 REACH C2 - STA 130+85  
 RECLAMATION DISTRICT NO. 17  
 SAN JOAQUIN COUNTY, CALIFORNIA

PROJECT NO.: 5747.005.000	
SCALE:	NO SCALE
DRAWN BY:	AL
CHECKED BY:	CC

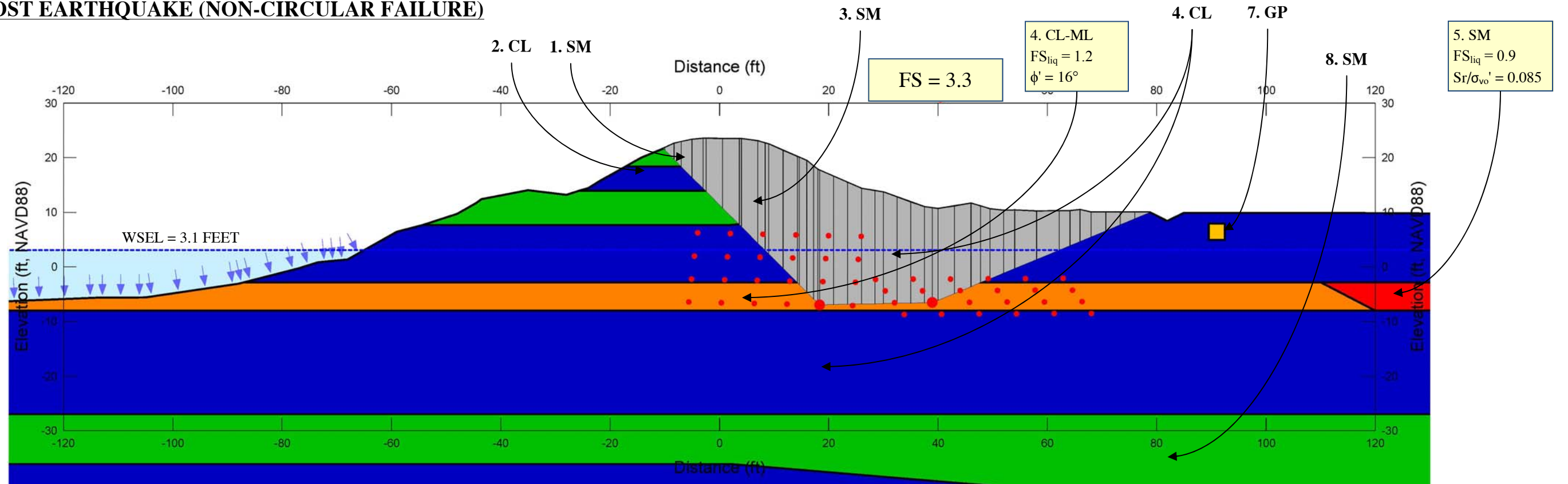
FIGURE NO.  
**E-6-G**

COPYRIGHT © 2014 BY ENGEO INCORPORATED. THIS DOCUMENT MAY NOT BE REPRODUCED IN WHOLE OR IN PART BY ANY MEANS WHATSOEVER, NOR MAY IT BE QUOTED OR EXCERPTED WITHOUT THE EXPRESS WRITTEN CONSENT OF ENGEO INCORPORATED.

### WATERSIDE POST EARTHQUAKE (NON-CIRCULAR FAILURE)



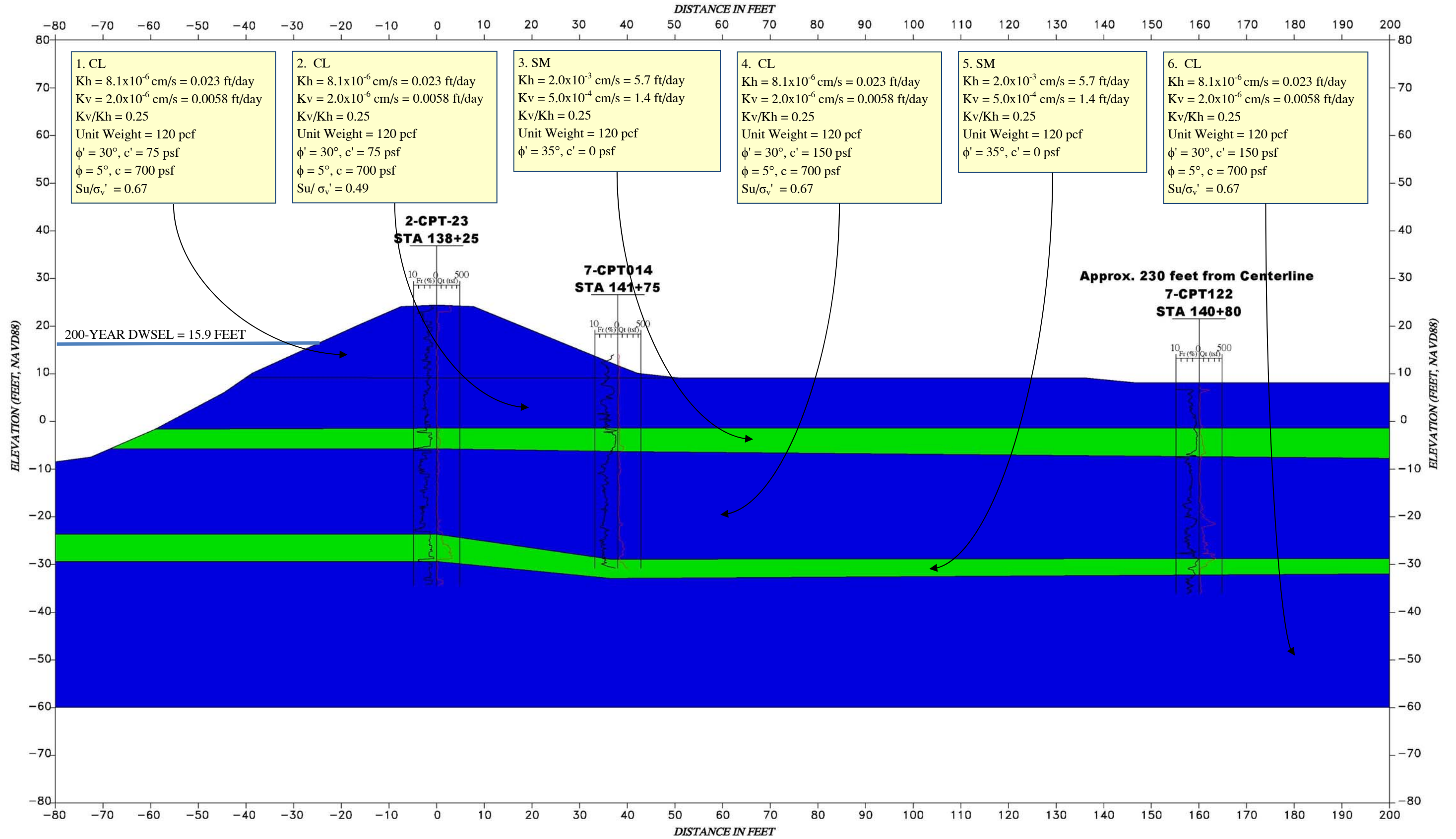
### LANDSIDE POST EARTHQUAKE (NON-CIRCULAR FAILURE)



	SEISMIC SLOPE STABILITY ANALYSIS REACH C2 - STA 130+85 RECLAMATION DISTRICT NO. 17 SAN JOAQUIN COUNTY, CALIFORNIA		PROJECT NO.: 5747.005.000	FIGURE NO. <b>E-6-H</b>
			SCALE: NO SCALE	
			DRAWN BY: AL	CHECKED BY: CC

# WATERSIDE

# LANDSIDE



COPYRIGHT © 2014 BY ENGEO INCORPORATED. THIS DOCUMENT MAY NOT BE REPRODUCED IN WHOLE OR IN PART BY ANY MEANS WHATSOEVER, NOR MAY IT BE QUOTED OR EXCERPTED WITHOUT THE EXPRESS WRITTEN CONSENT OF ENGEO INCORPORATED.



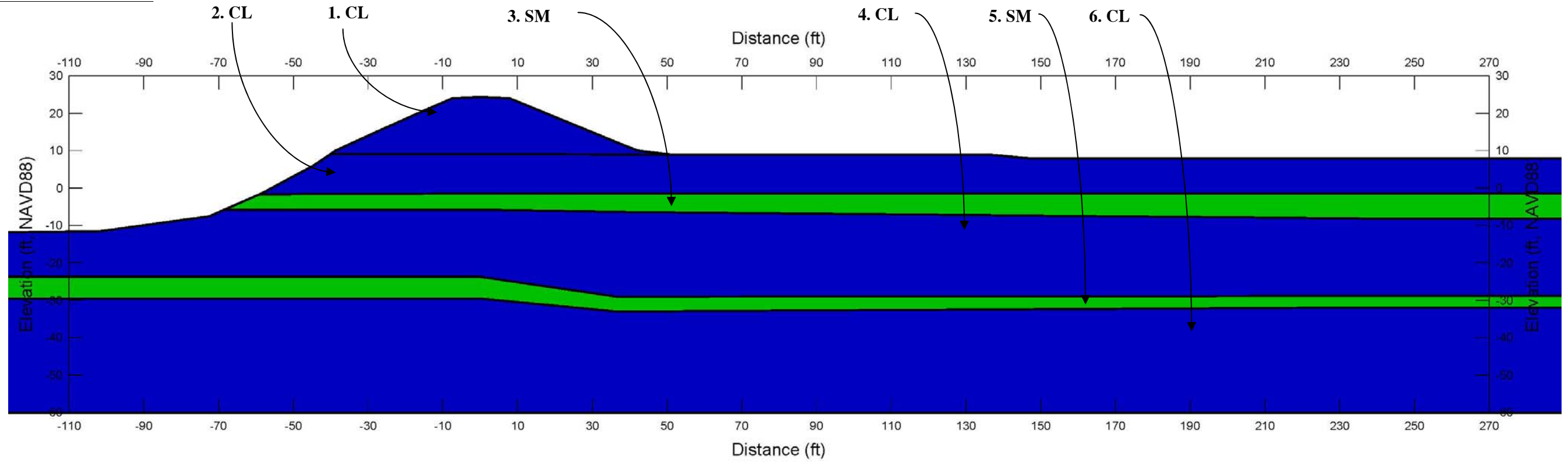
**CROSS SECTION & MATERIAL PARAMETERS**  
 REACH C2 - STA 138+25  
 RECLAMATION DISTRICT NO. 17  
 SAN JOAQUIN COUNTY, CALIFORNIA

PROJECT NO.: 5747.005.000	
SCALE:	NO SCALE
DRAWN BY:	ZR
CHECKED BY:	BA

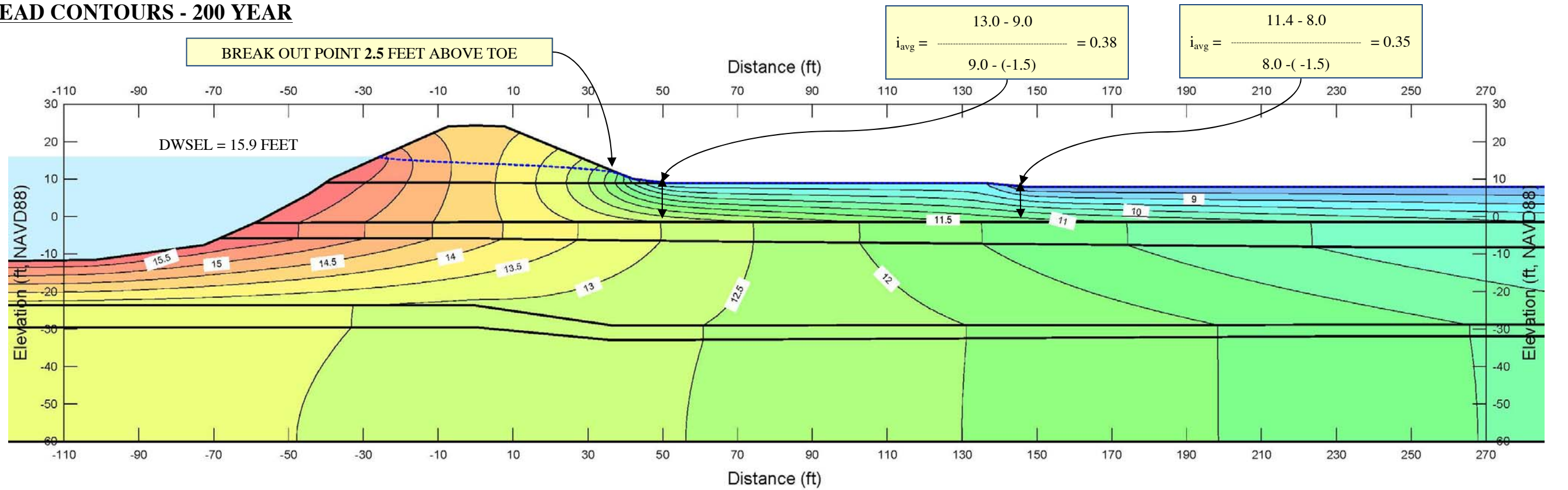
FIGURE NO.  
**E-7-A**

COPYRIGHT © 2014 BY ENGEO INCORPORATED. THIS DOCUMENT MAY NOT BE REPRODUCED IN WHOLE OR IN PART BY ANY MEANS WHATSOEVER, NOR MAY IT BE QUOTED OR EXCERPTED WITHOUT THE EXPRESS WRITTEN CONSENT OF ENGEO INCORPORATED.

### GEOMETRY OF MODEL



### TOTAL HEAD CONTOURS - 200 YEAR



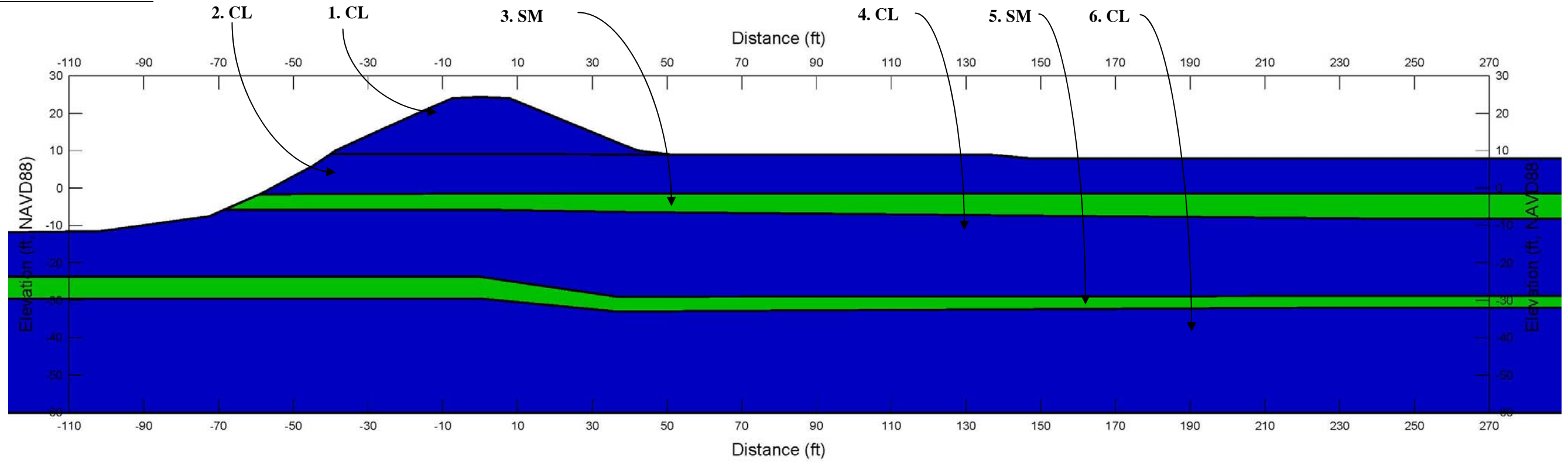
SEEPAGE ANALYSIS  
 REACH C2 - STA 138+25  
 RECLAMATION DISTRICT NO. 17  
 SAN JOAQUIN COUNTY, CALIFORNIA

PROJECT NO.: 5747.005.000	
SCALE: NO SCALE	
DRAWN BY: MH	CHECKED BY: NS

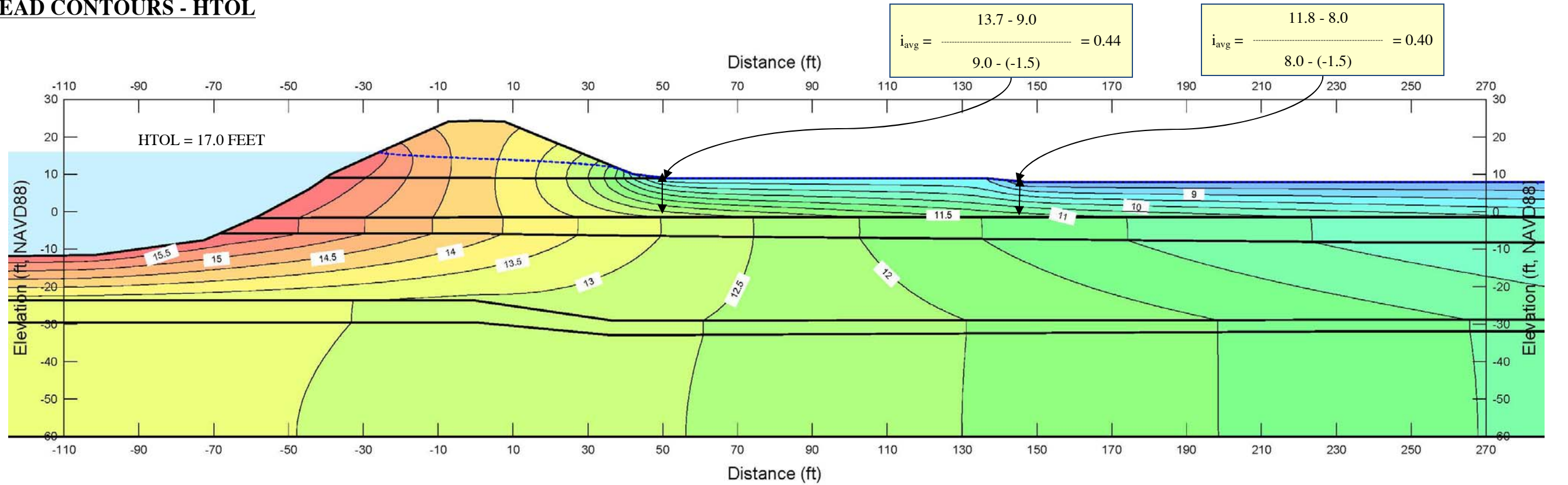
FIGURE NO.  
**E-7-B**

COPYRIGHT © 2014 BY ENGEO INCORPORATED. THIS DOCUMENT MAY NOT BE REPRODUCED IN WHOLE OR IN PART BY ANY MEANS WHATSOEVER, NOR MAY IT BE QUOTED OR EXCERPTED WITHOUT THE EXPRESS WRITTEN CONSENT OF ENGEO INCORPORATED.

### GEOMETRY OF MODEL



### TOTAL HEAD CONTOURS - HTOL



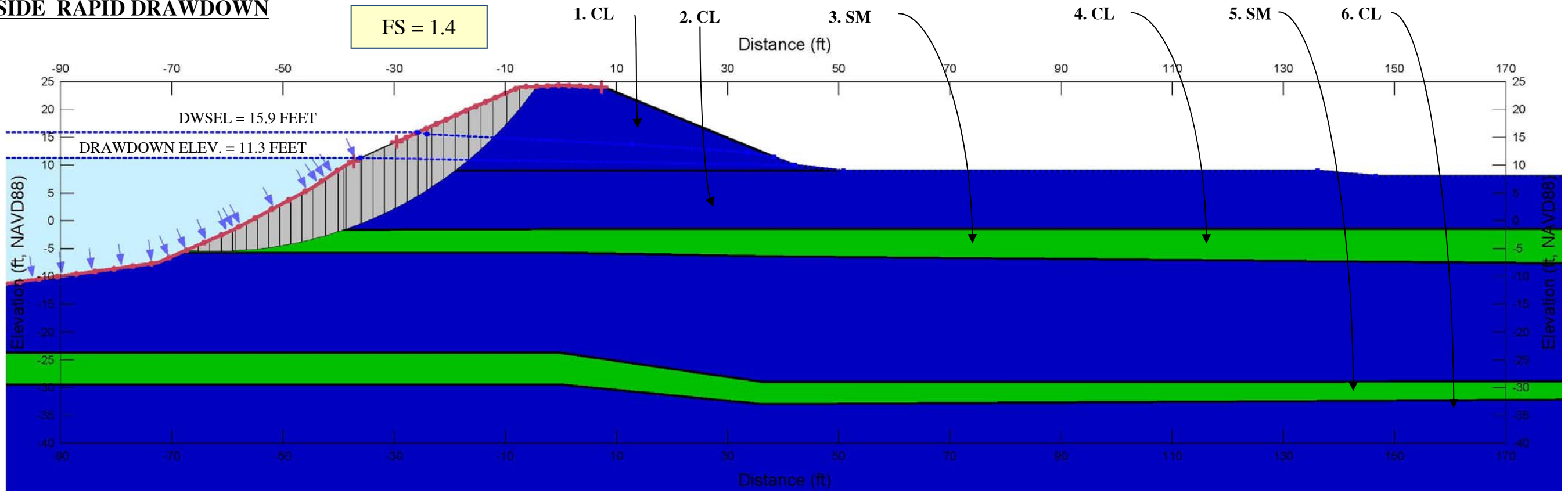
SEEPAGE ANALYSIS  
 REACH C2 - STA 138+25  
 RECLAMATION DISTRICT NO. 17  
 SAN JOAQUIN COUNTY, CALIFORNIA

PROJECT NO.: 5747.005.000	
SCALE: NO SCALE	
DRAWN BY: MH	CHECKED BY: NS

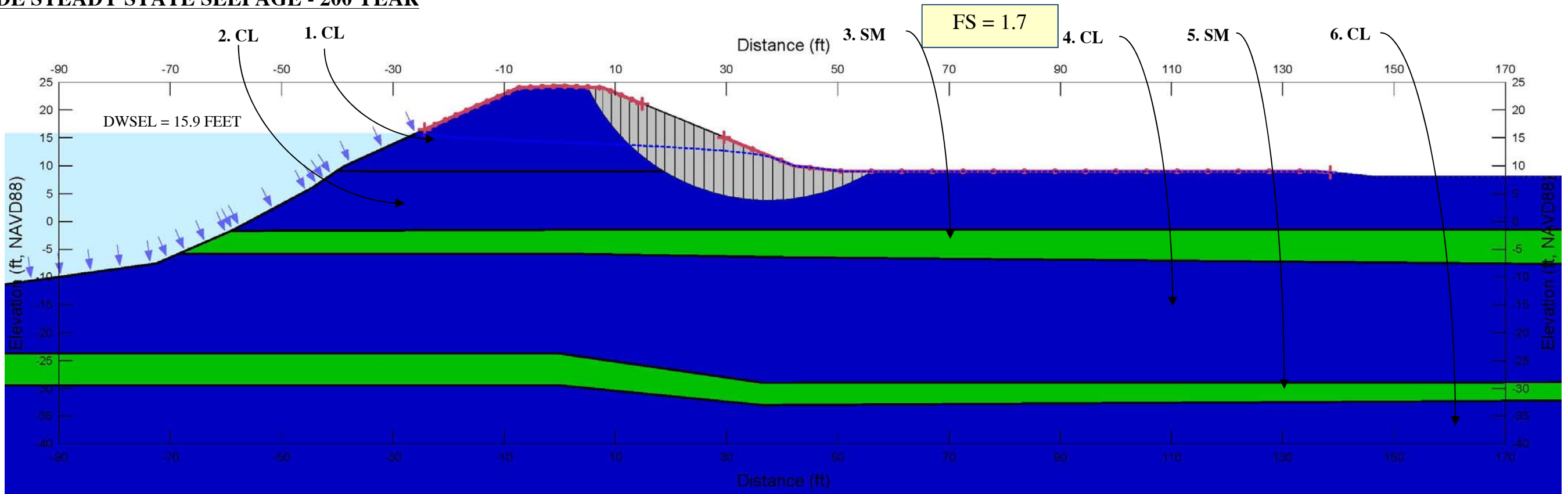
FIGURE NO.  
**E-7-C**

COPYRIGHT © 2014 BY ENGEO INCORPORATED. THIS DOCUMENT MAY NOT BE REPRODUCED IN WHOLE OR IN PART BY ANY MEANS WHATSOEVER, NOR MAY IT BE QUOTED OR EXCERPTED WITHOUT THE EXPRESS WRITTEN CONSENT OF ENGEO INCORPORATED.

### WATERSIDE RAPID DRAWDOWN



### LANDSIDE STEADY STATE SEEPAGE - 200 YEAR



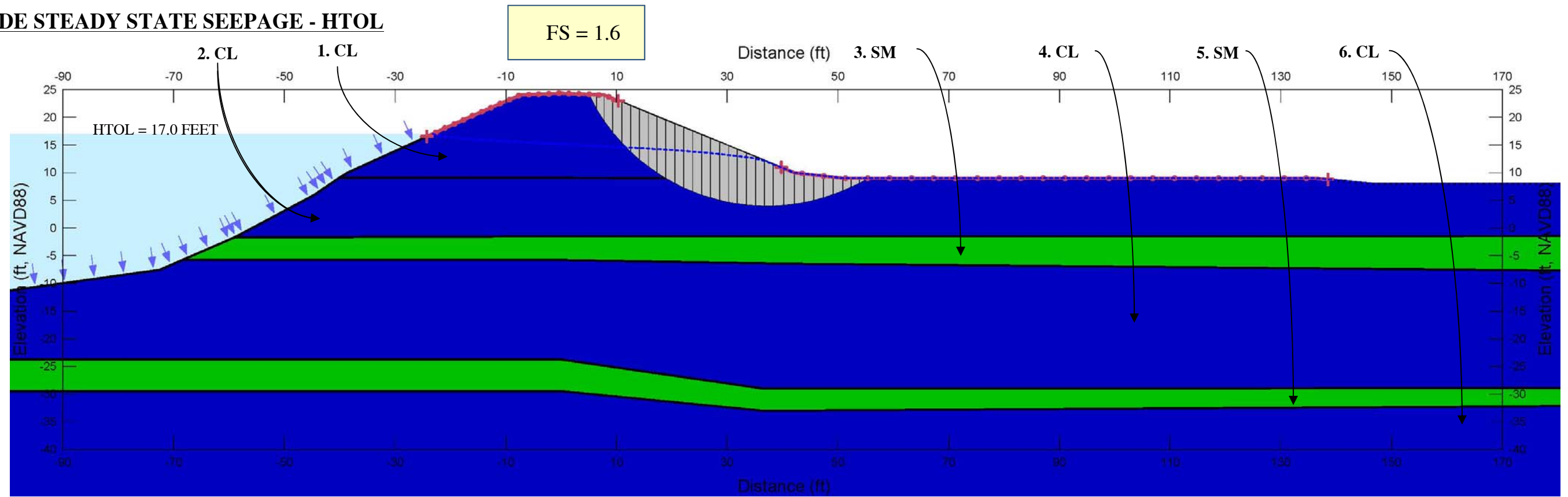
STATIC SLOPE STABILITY ANALYSIS  
REACH C2 - STA 138+25  
RECLAMATION DISTRICT NO. 17  
SAN JOAQUIN COUNTY, CALIFORNIA

PROJECT NO.: 5747.005.000	
SCALE:	NO SCALE
DRAWN BY:	MH
CHECKED BY:	NS

FIGURE NO.  
**E-7-D**

COPYRIGHT © 2014 BY ENGEO INCORPORATED. THIS DOCUMENT MAY NOT BE REPRODUCED IN WHOLE OR IN PART BY ANY MEANS WHATSOEVER WITHOUT THE EXPRESS WRITTEN CONSENT OF ENGEO INCORPORATED.

### LANDSIDE STEADY STATE SEEPAGE - HTOL



STATIC SLOPE STABILITY ANALYSIS  
REACH C2 - STA 138+25  
RECLAMATION DISTRICT NO. 17  
SAN JOAQUIN COUNTY, CALIFORNIA

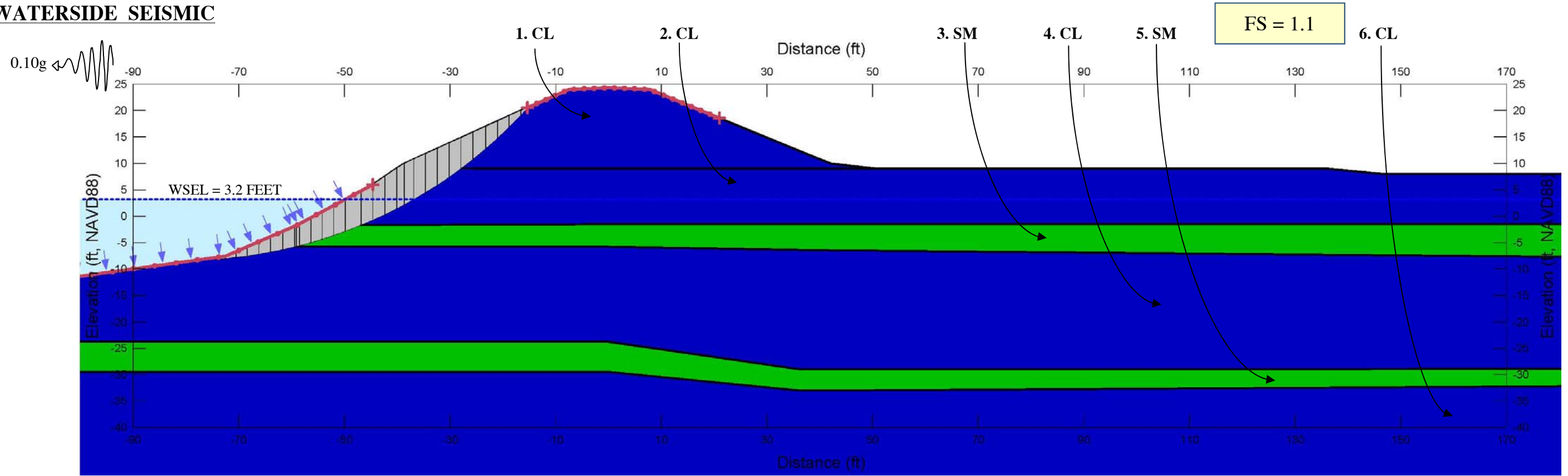
PROJECT NO.: 5747.005.000
SCALE: NO SCALE
DRAWN BY: MH   CHECKED BY: NS

FIGURE NO.  
**E-7-E**

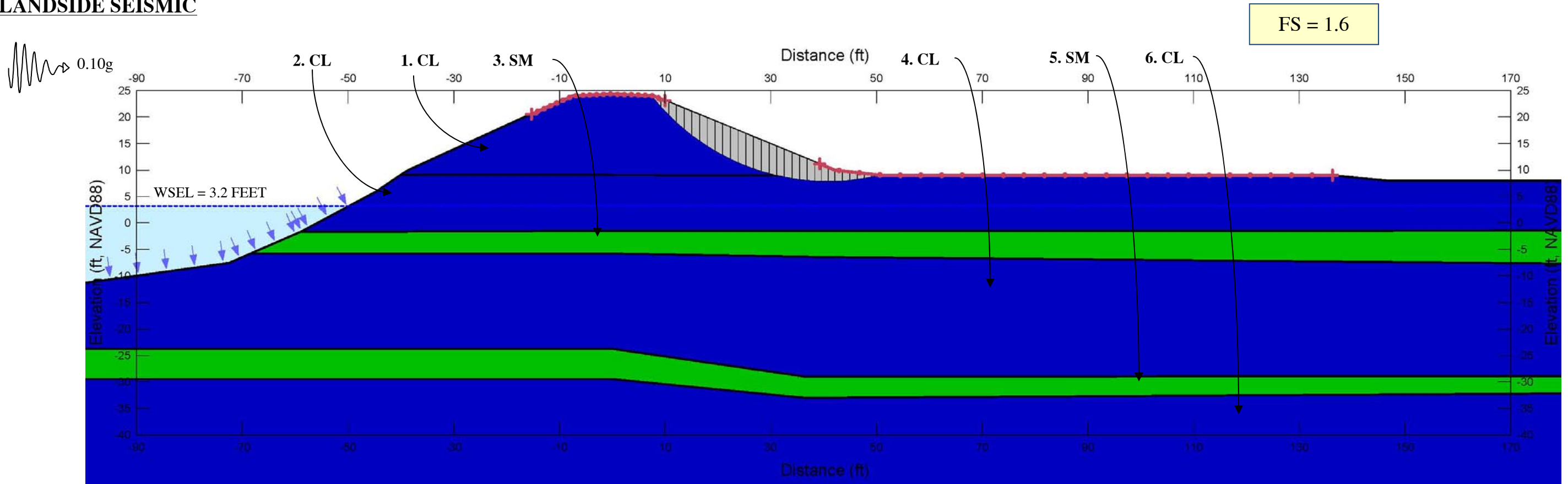


COPYRIGHT © 2014 BY ENGEO INCORPORATED. THIS DOCUMENT MAY NOT BE REPRODUCED IN WHOLE OR IN PART BY ANY MEANS WHATSOEVER, NOR MAY IT BE QUOTED OR EXCERPTED WITHOUT THE EXPRESS WRITTEN CONSENT OF ENGEO INCORPORATED.

### WATERSIDE SEISMIC



### LANDSIDE SEISMIC



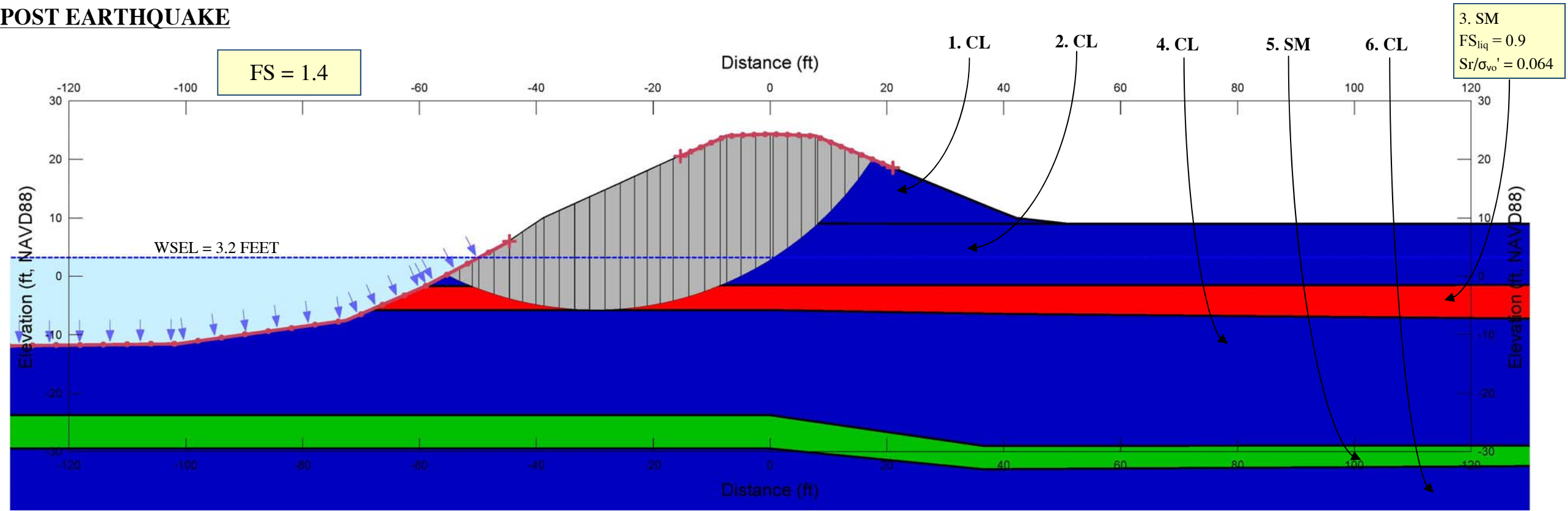
SEISMIC SLOPE STABILITY ANALYSIS  
REACH C2 - STA 138+25  
RECLAMATION DISTRICT NO. 17  
SAN JOAQUIN COUNTY, CALIFORNIA

PROJECT NO.: 5747.005.000
SCALE: NO SCALE
DRAWN BY: BA
CHECKED BY: NS

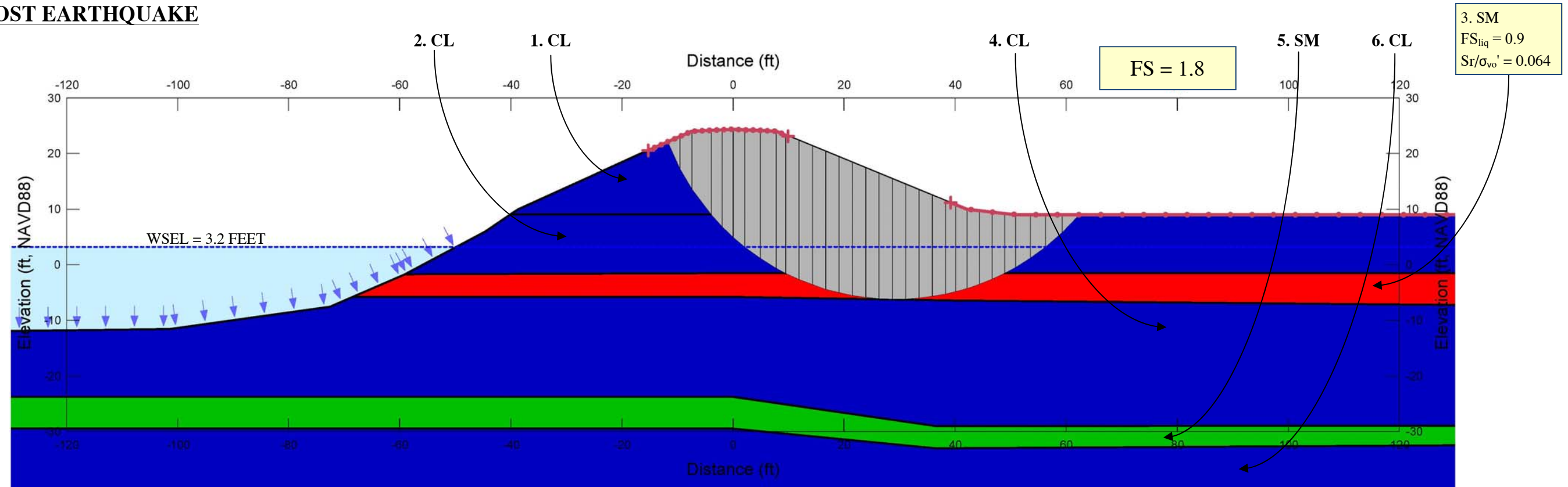
FIGURE NO.  
E-7-F

COPYRIGHT © 2014 BY ENGEO INCORPORATED. THIS DOCUMENT MAY NOT BE REPRODUCED IN WHOLE OR IN PART BY ANY MEANS WHATSOEVER, NOR MAY IT BE QUOTED OR EXCERPTED WITHOUT THE EXPRESS WRITTEN CONSENT OF ENGEO INCORPORATED.

### WATERSIDE POST EARTHQUAKE



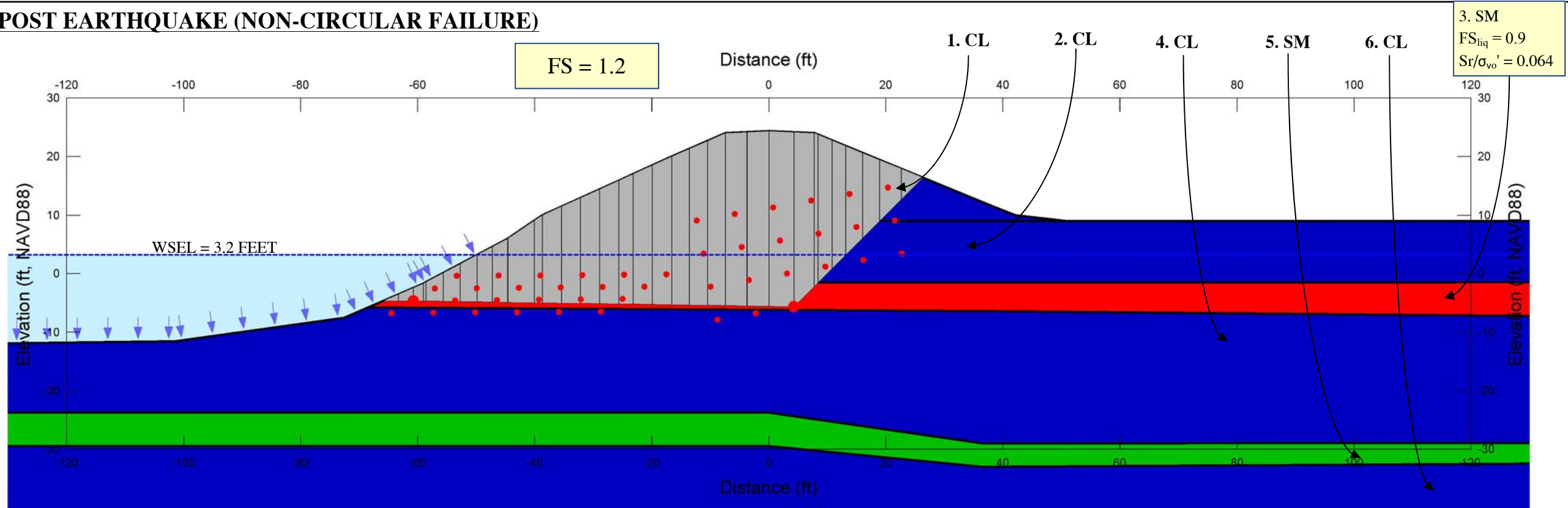
### LANDSIDE POST EARTHQUAKE



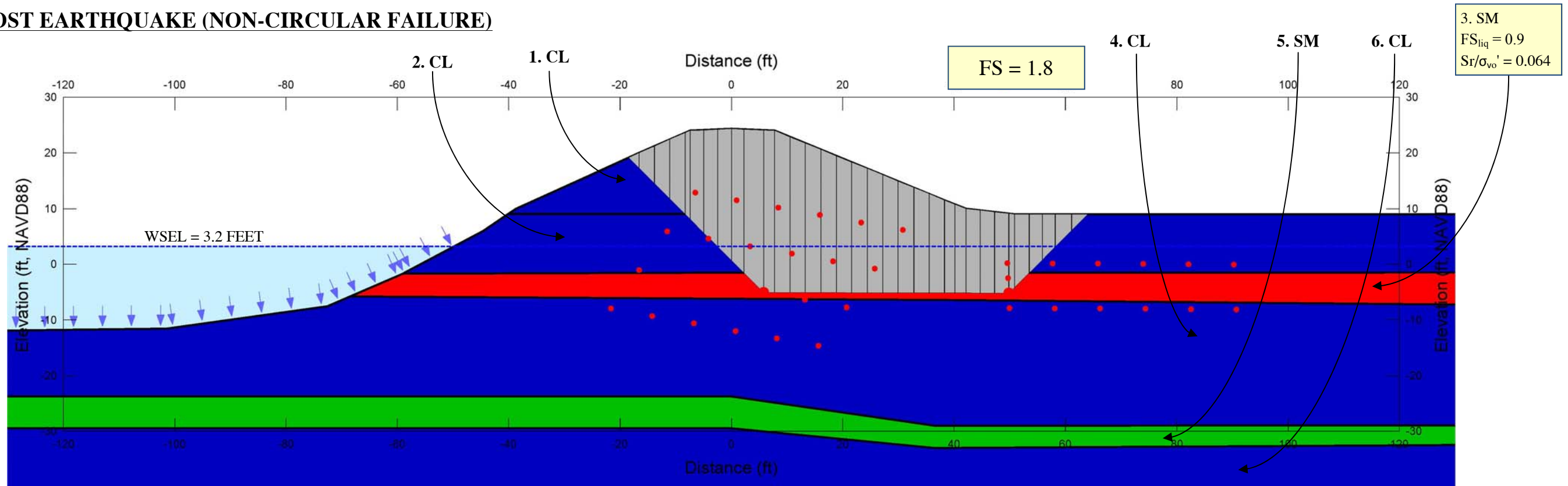
	SEISMIC SLOPE STABILITY ANALYSIS REACH C2 - STA 138+25 RECLAMATION DISTRICT NO. 17 SAN JOAQUIN COUNTY, CALIFORNIA		PROJECT NO.: 5747.005.000	FIGURE NO. <b>E-7-G</b>
			SCALE: NO SCALE	
			DRAWN BY: BA	CHECKED BY: CC

COPYRIGHT © 2014 BY ENGEO INCORPORATED. THIS DOCUMENT MAY NOT BE REPRODUCED IN WHOLE OR IN PART BY ANY MEANS WHATSOEVER, NOR MAY IT BE QUOTED OR EXCERPTED WITHOUT THE EXPRESS WRITTEN CONSENT OF ENGEO INCORPORATED.

### WATERSIDE POST EARTHQUAKE (NON-CIRCULAR FAILURE)



### LANDSIDE POST EARTHQUAKE (NON-CIRCULAR FAILURE)



SEISMIC SLOPE STABILITY ANALYSIS  
 REACH C2 - STA 138+25  
 RECLAMATION DISTRICT NO. 17  
 SAN JOAQUIN COUNTY, CALIFORNIA

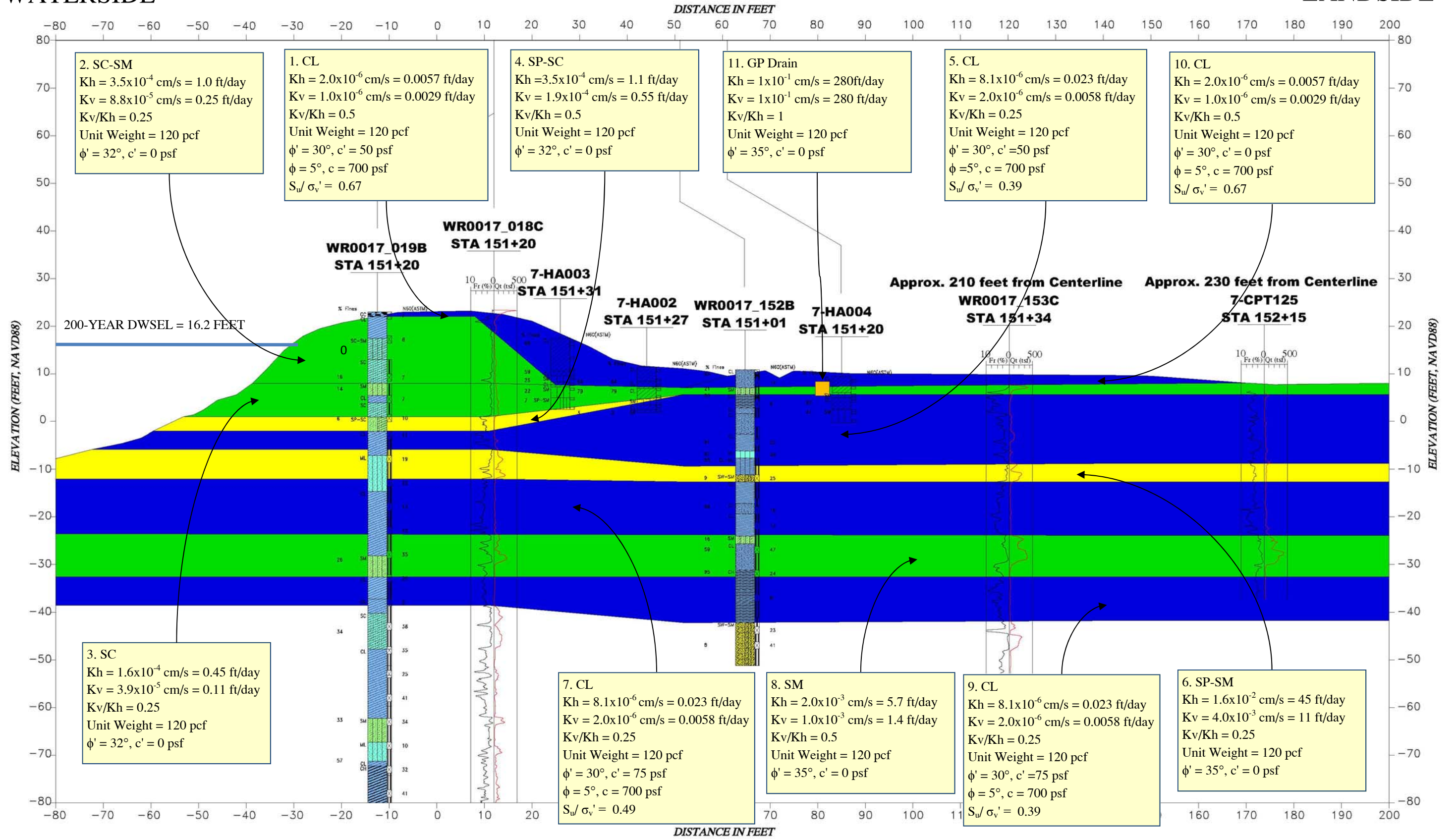
PROJECT NO.: 5747.005.000	
SCALE:	NO SCALE
DRAWN BY:	BA
CHECKED BY:	CC

FIGURE NO.

E-7-H

# WATERSIDE

# LANDSIDE



COPYRIGHT © 2014 BY ENGEO INCORPORATED. THIS DOCUMENT MAY NOT BE REPRODUCED IN WHOLE OR IN PART BY ANY MEANS WHATSOEVER, NOR MAY IT BE QUOTED OR EXCERPTED WITHOUT THE EXPRESS WRITTEN CONSENT OF ENGEO INCORPORATED.



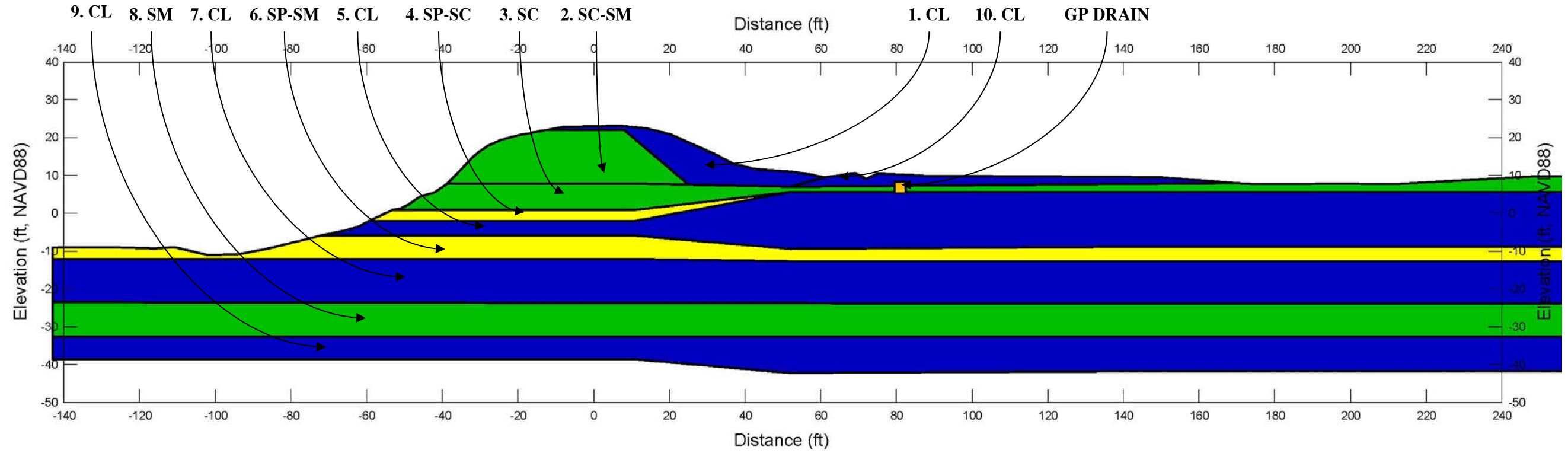
**CROSS SECTION & MATERIAL PARAMETERS**  
 REACH C3A - STA 150+99  
 RECLAMATION DISTRICT NO. 17  
 SAN JOAQUIN COUNTY, CALIFORNIA

PROJECT NO.: 5747.005.000  
 SCALE: NO SCALE  
 DRAWN BY: ZR CHECKED BY: AL

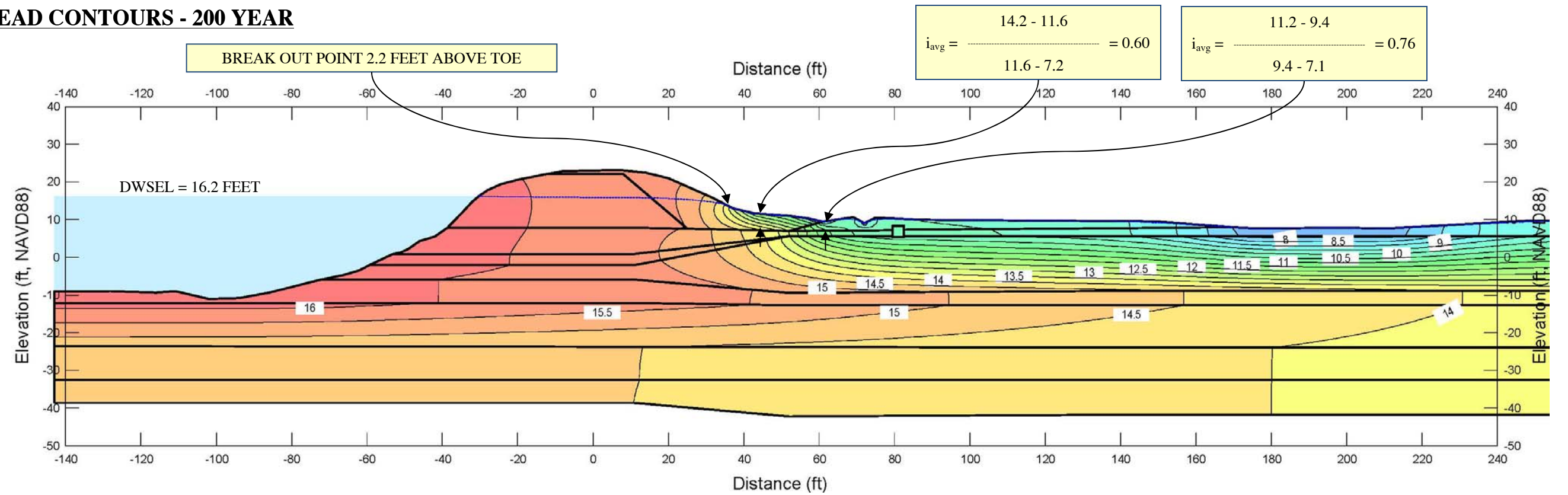
FIGURE NO.  
**E-8-A**

COPYRIGHT © 2014 BY ENGEO INCORPORATED. THIS DOCUMENT MAY NOT BE REPRODUCED IN WHOLE OR IN PART BY ANY MEANS WHATSOEVER, NOR MAY IT BE QUOTED OR EXCERPTED WITHOUT THE EXPRESS WRITTEN CONSENT OF ENGEO INCORPORATED.

### GEOMETRY OF MODEL



### TOTAL HEAD CONTOURS - 200 YEAR



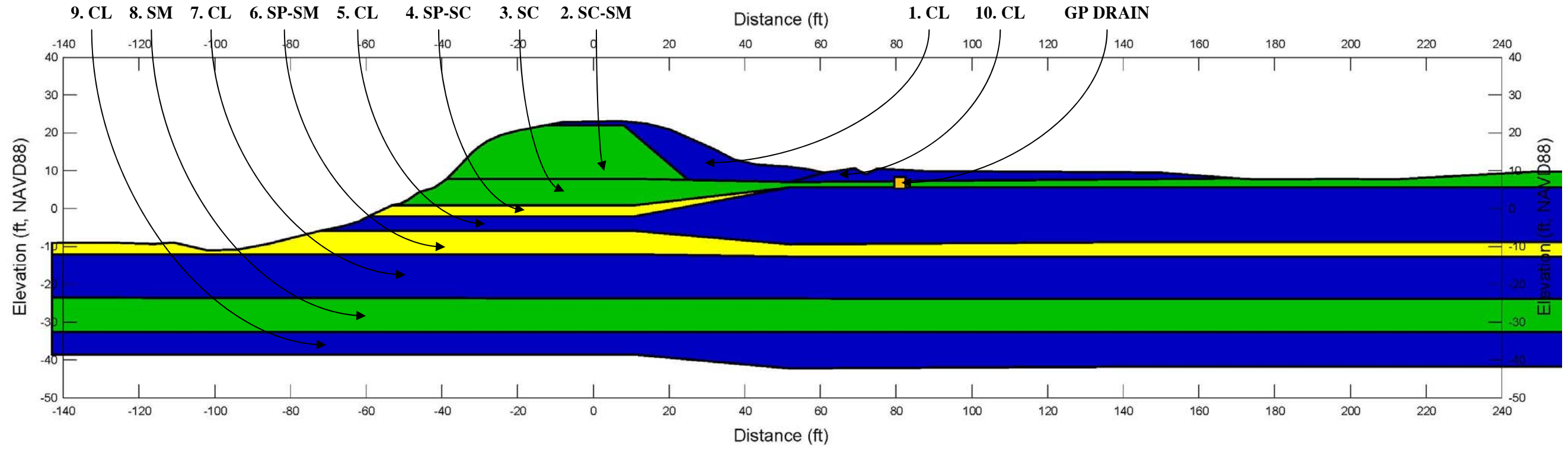
SEEPAGE ANALYSIS  
 REACH C3A - STA 150+99  
 RECLAMATION DISTRICT NO. 17  
 SAN JOAQUIN COUNTY, CALIFORNIA

PROJECT NO.: 5747.005.000  
 SCALE: NO SCALE  
 DRAWN BY: ZR CHECKED BY: NS

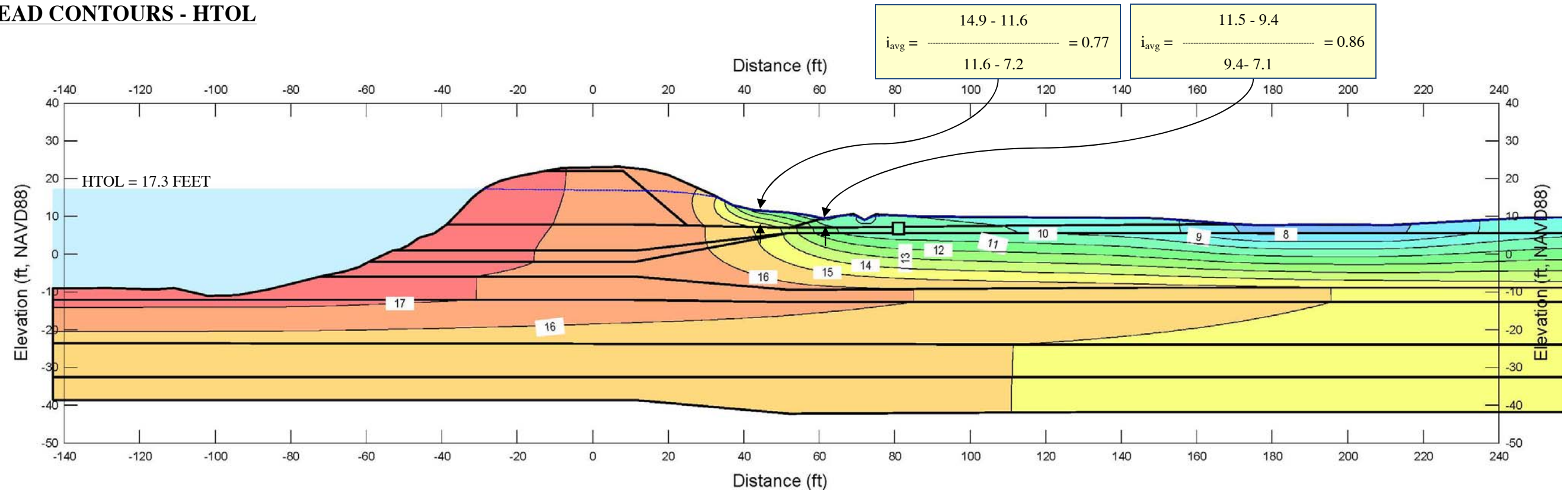
FIGURE NO.  
**E-8-B**

COPYRIGHT © 2014 BY ENGEO INCORPORATED. THIS DOCUMENT MAY NOT BE REPRODUCED IN WHOLE OR IN PART BY ANY MEANS WHATSOEVER, NOR MAY IT BE QUOTED OR EXCERPTED WITHOUT THE EXPRESS WRITTEN CONSENT OF ENGEO INCORPORATED.

**GEOMETRY OF MODEL**



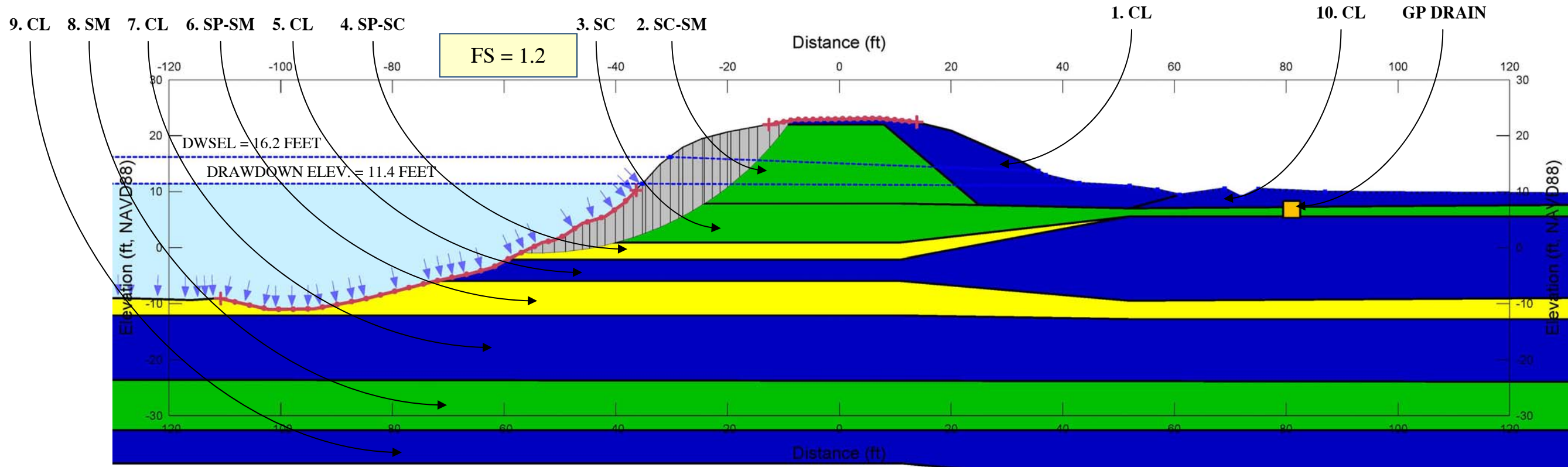
**TOTAL HEAD CONTOURS - HTOL**



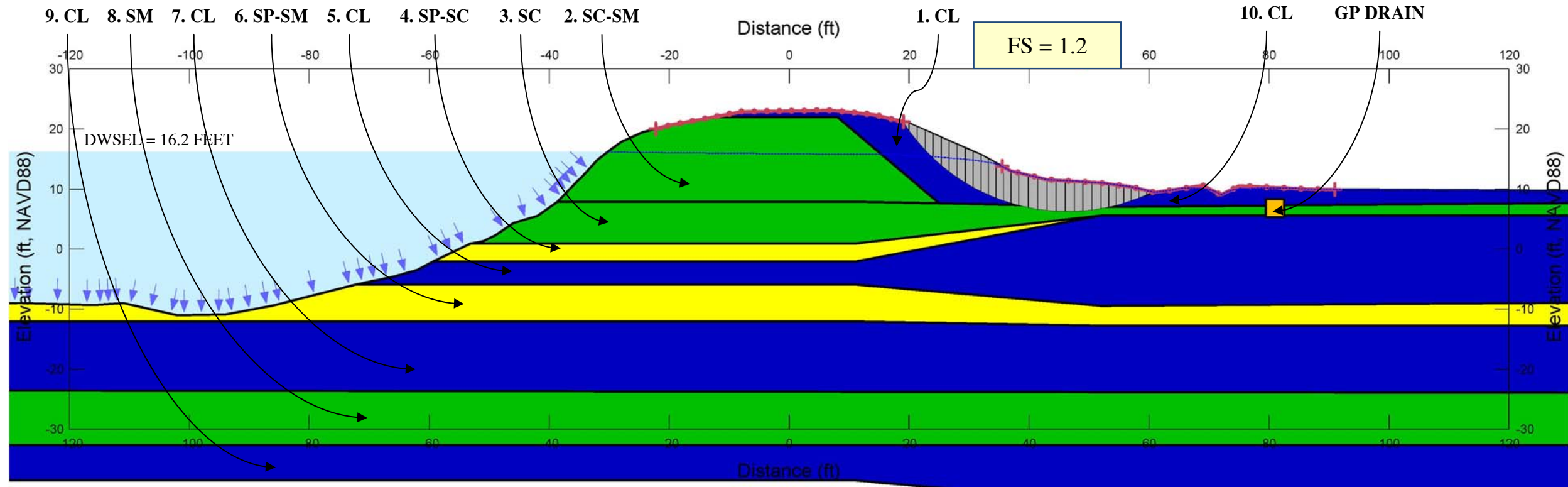
	SEEPAGE ANALYSIS REACH C3A - STA 150+99 RECLAMATION DISTRICT NO. 17 SAN JOAQUIN COUNTY, CALIFORNIA		PROJECT NO.: 5747.005.000	FIGURE NO.
			SCALE: NO SCALE	E-8-C
			DRAWN BY: ZR    CHECKED BY: NS	

COPYRIGHT © 2014 BY ENGEO INCORPORATED. THIS DOCUMENT MAY NOT BE REPRODUCED IN WHOLE OR IN PART BY ANY MEANS WHATSOEVER, NOR MAY IT BE QUOTED OR EXCERPTED WITHOUT THE EXPRESS WRITTEN CONSENT OF ENGEO INCORPORATED.

### WATERSIDE RAPID DRAWDOWN



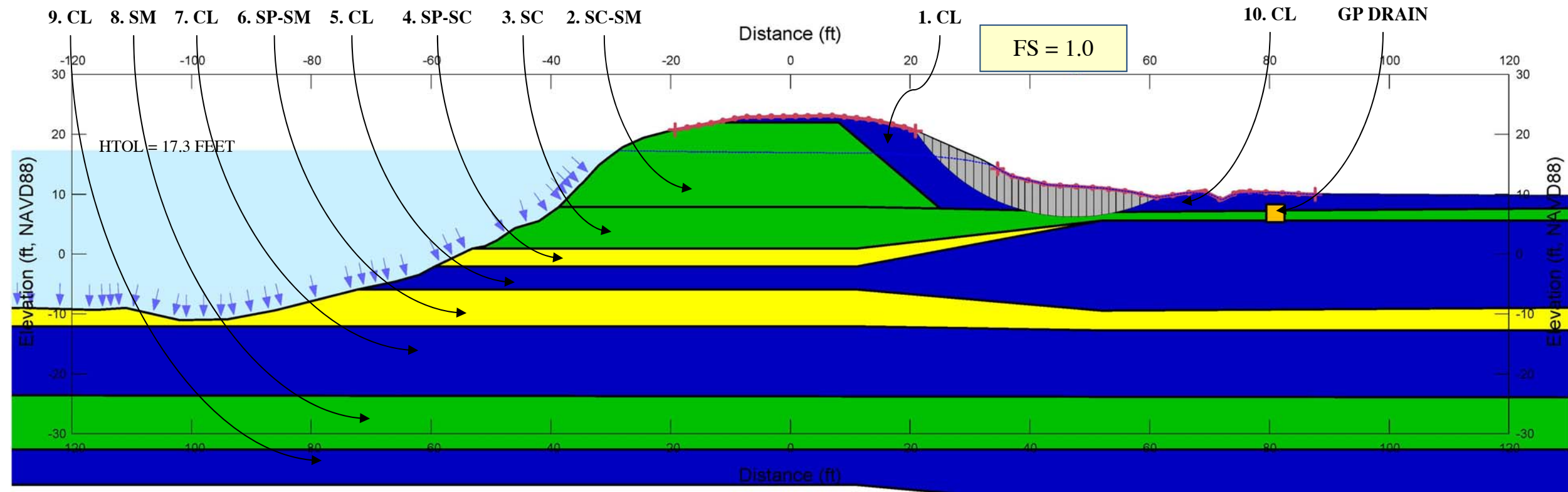
### LANDSIDE STEADY STATE SEEPAGE - 200 YEAR



	STATIC SLOPE STABILITY ANALYSIS REACH C3A - STA 150+99 RECLAMATION DISTRICT NO. 17 SAN JOAQUIN COUNTY, CALIFORNIA		PROJECT NO.: 5747.005.000	FIGURE NO.  <b>E-8-D</b>
			SCALE: NO SCALE	
			DRAWN BY: ZR    CHECKED BY: NS	

COPYRIGHT © 2014 BY ENGEO INCORPORATED. THIS DOCUMENT MAY NOT BE REPRODUCED IN WHOLE OR IN PART BY ANY MEANS WHATSOEVER, NOR MAY IT BE QUOTED OR EXCERPTED WITHOUT THE EXPRESS WRITTEN CONSENT OF ENGEO INCORPORATED.

### LANDSIDE STEADY STATE SEEPAGE - HTOL



STATIC SLOPE STABILITY ANALYSIS  
 REACH C3A - STA 150+99  
 RECLAMATION DISTRICT NO. 17  
 SAN JOAQUIN COUNTY, CALIFORNIA

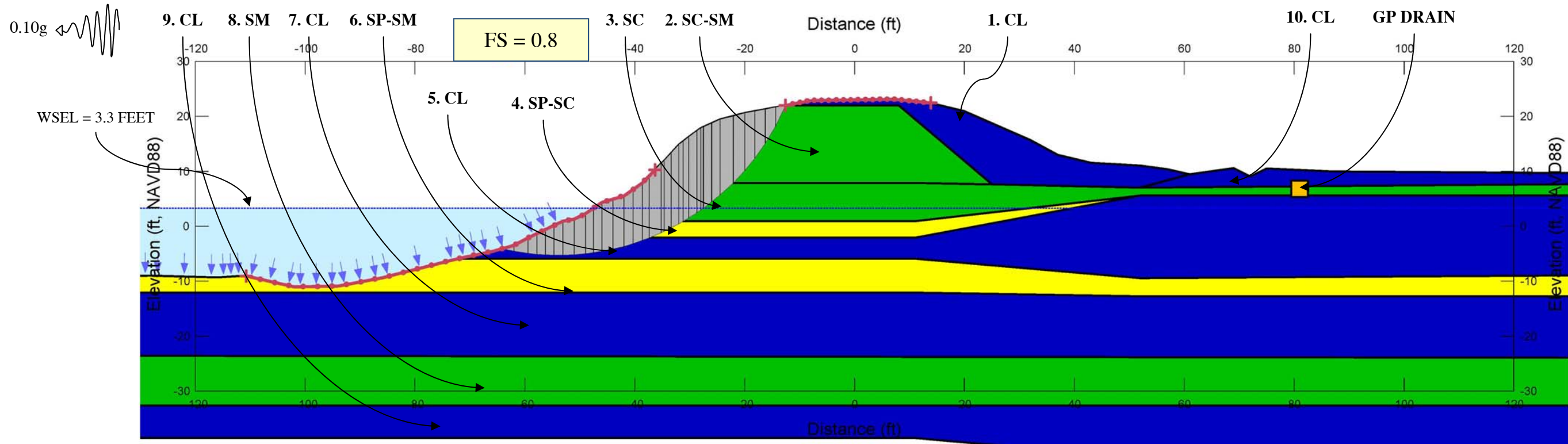
PROJECT NO.: 5747.005.000	
SCALE:	NO SCALE
DRAWN BY:	ZR
CHECKED BY:	NS

FIGURE NO.  
**E-8-E**

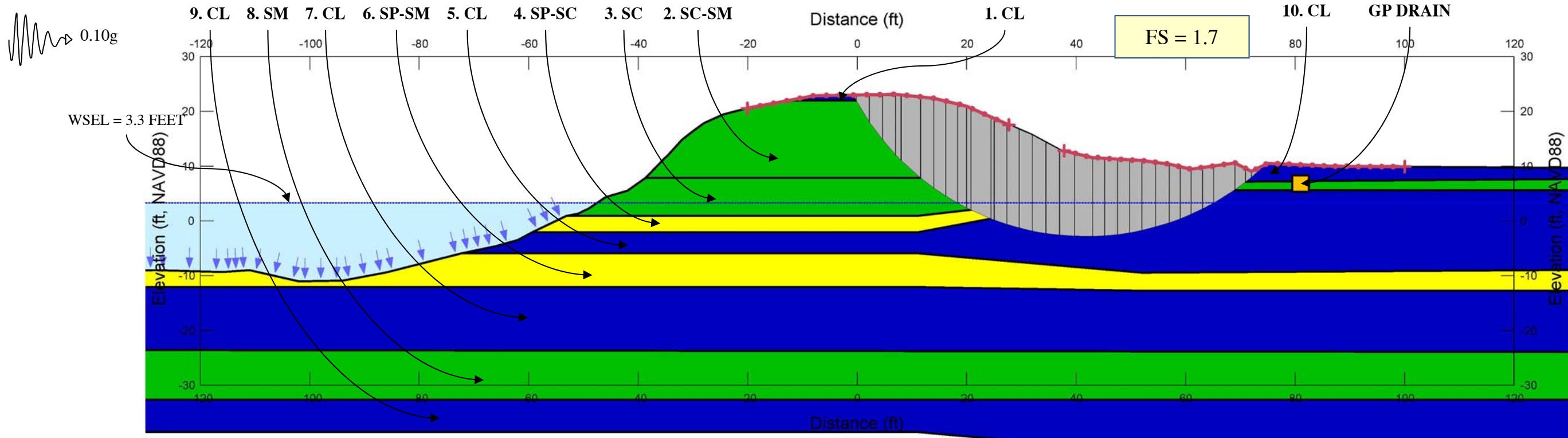



COPYRIGHT © 2014 BY ENGEO INCORPORATED. THIS DOCUMENT MAY NOT BE REPRODUCED IN WHOLE OR IN PART BY ANY MEANS WHATSOEVER, NOR MAY IT BE QUOTED OR EXCERPTED WITHOUT THE EXPRESS WRITTEN CONSENT OF ENGEO INCORPORATED.

### WATERSIDE SEISMIC



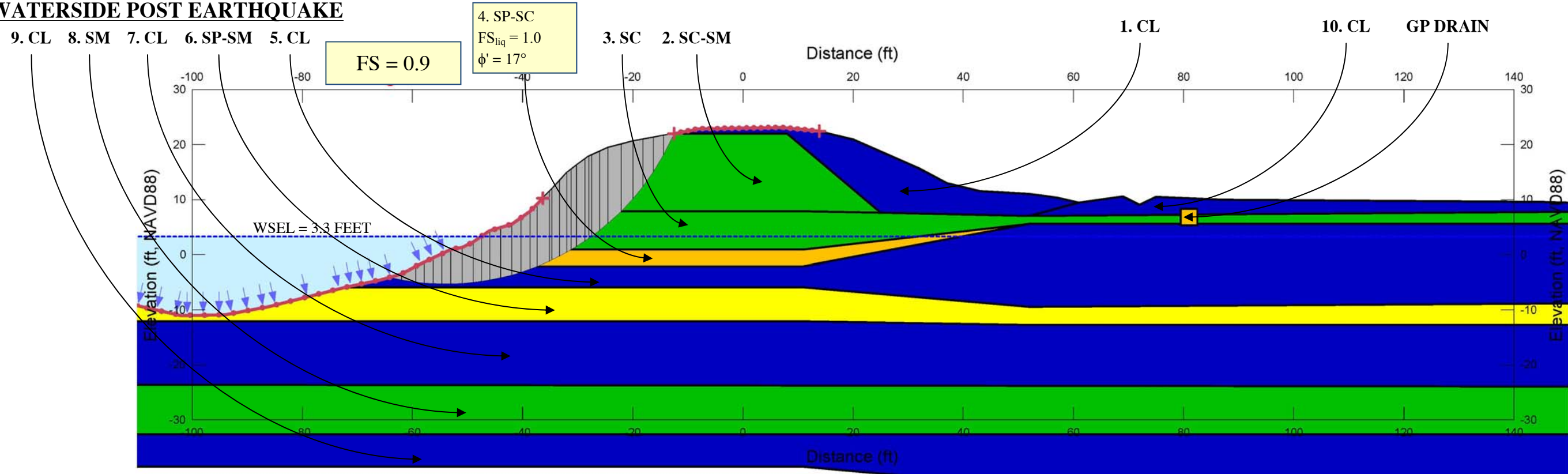
### LANDSIDE SEISMIC



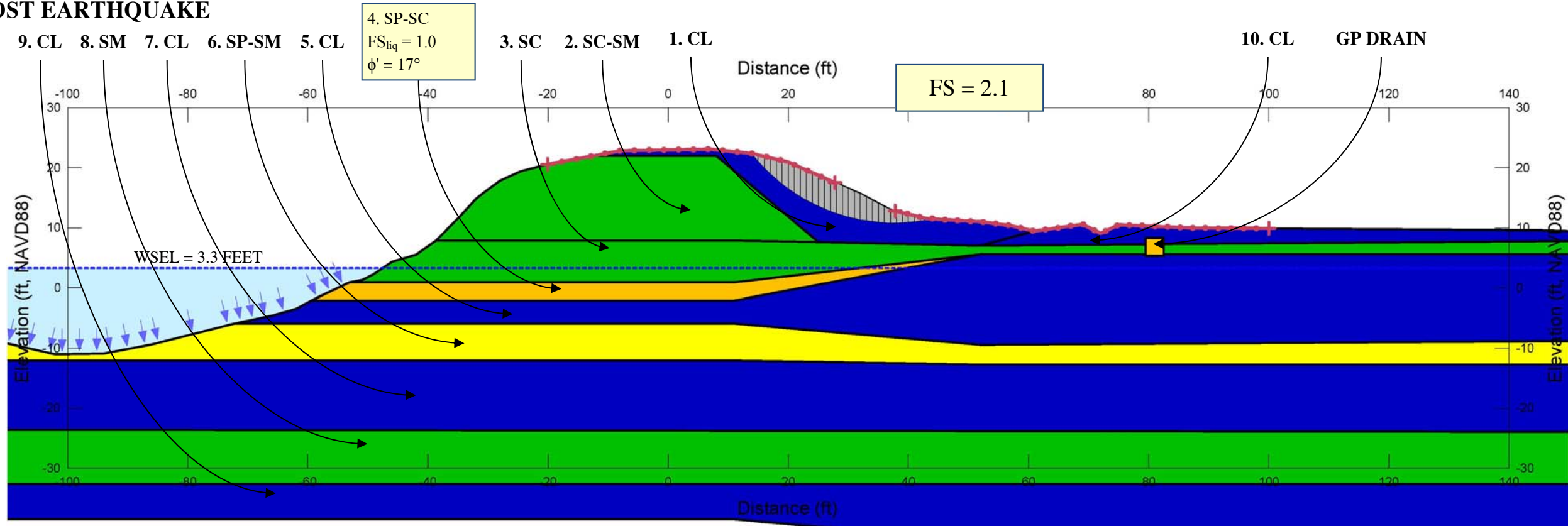
 <p>Expect Excellence</p>	SEISMIC SLOPE STABILITY ANALYSIS REACH C3A - STA 150+99 RECLAMATION DISTRICT NO. 17 SAN JOAQUIN COUNTY, CALIFORNIA		PROJECT NO.: 5747.005.000	FIGURE NO. E-8-F
			SCALE: NO SCALE	
			DRAWN BY: ZR	CHECKED BY: NS

COPYRIGHT © 2014 BY ENGEO INCORPORATED. THIS DOCUMENT MAY NOT BE REPRODUCED IN WHOLE OR IN PART BY ANY MEANS WHATSOEVER, NOR MAY IT BE QUOTED OR EXCERPTED WITHOUT THE EXPRESS WRITTEN CONSENT OF ENGEO INCORPORATED.

### WATERSIDE POST EARTHQUAKE



### LANDSIDE POST EARTHQUAKE



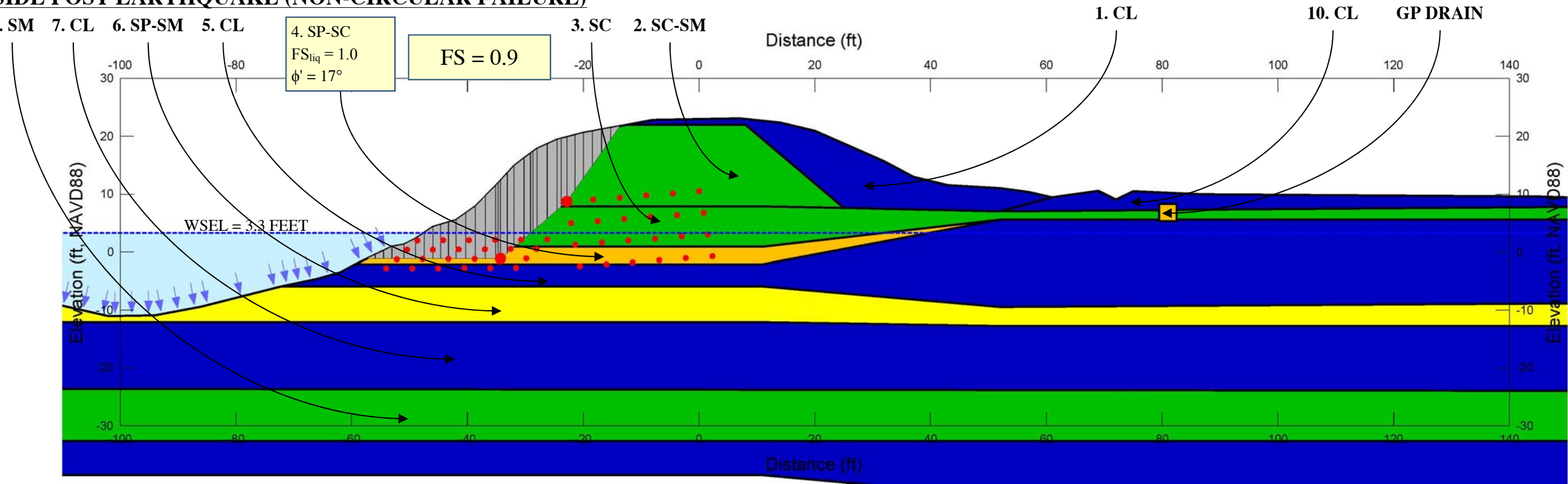
SEISMIC SLOPE STABILITY ANALYSIS  
 REACH C3A - STA 150+99  
 RECLAMATION DISTRICT NO. 17  
 SAN JOAQUIN COUNTY, CALIFORNIA

PROJECT NO.: 5747.005.000	
SCALE:	NO SCALE
DRAWN BY:	BA
CHECKED BY:	CC

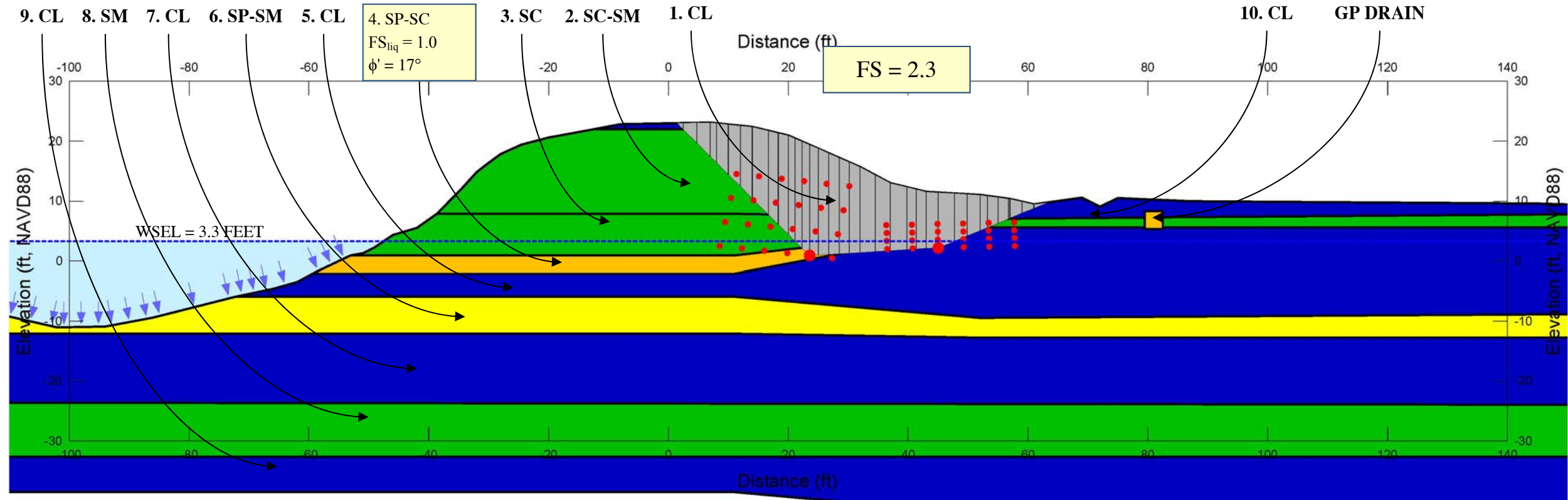
FIGURE NO.  
**E-8-G**

COPYRIGHT © 2014 BY ENGEO INCORPORATED. THIS DOCUMENT MAY NOT BE REPRODUCED IN WHOLE OR IN PART BY ANY MEANS WHATSOEVER, NOR MAY IT BE QUOTED OR EXCERPTED WITHOUT THE EXPRESS WRITTEN CONSENT OF ENGEO INCORPORATED.

### WATERSIDE POST EARTHQUAKE (NON-CIRCULAR FAILURE)



### LANDSIDE POST EARTHQUAKE (NON-CIRCULAR FAILURE)



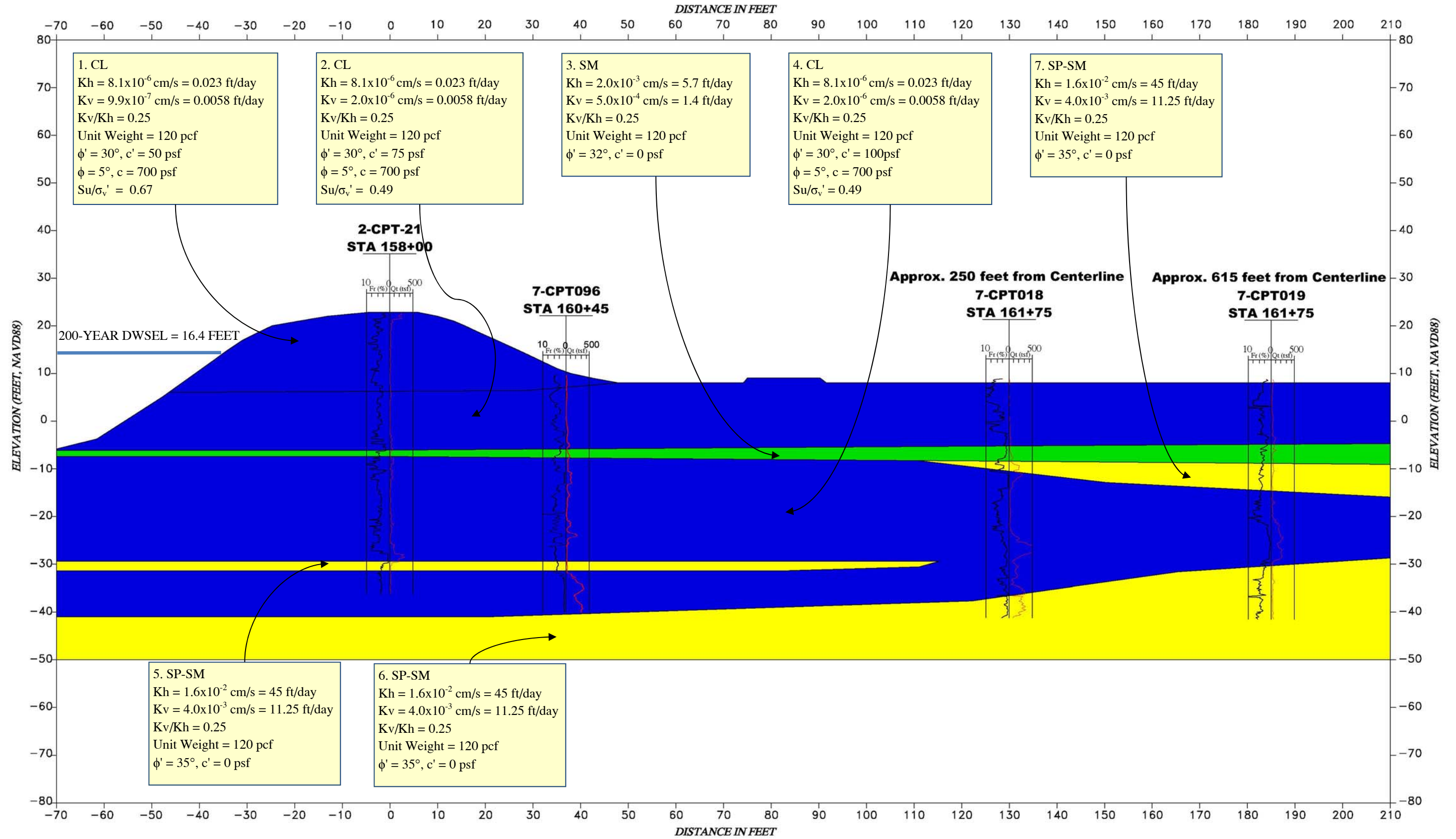
SEISMIC SLOPE STABILITY ANALYSIS  
 REACH C3A - STA 150+99  
 RECLAMATION DISTRICT NO. 17  
 SAN JOAQUIN COUNTY, CALIFORNIA

PROJECT NO.: 5747.005.000	
SCALE:	NO SCALE
DRAWN BY:	BA
CHECKED BY:	CC

FIGURE NO.  
**E-8-H**

# WATERSIDE

# LANDSIDE



COPYRIGHT © 2014 BY ENGEO INCORPORATED. THIS DOCUMENT MAY NOT BE REPRODUCED IN WHOLE OR IN PART BY ANY MEANS WHATSOEVER, NOR MAY IT BE QUOTED OR EXCERPTED WITHOUT THE EXPRESS WRITTEN CONSENT OF ENGEO INCORPORATED.

10/16/2015 1:10 PM



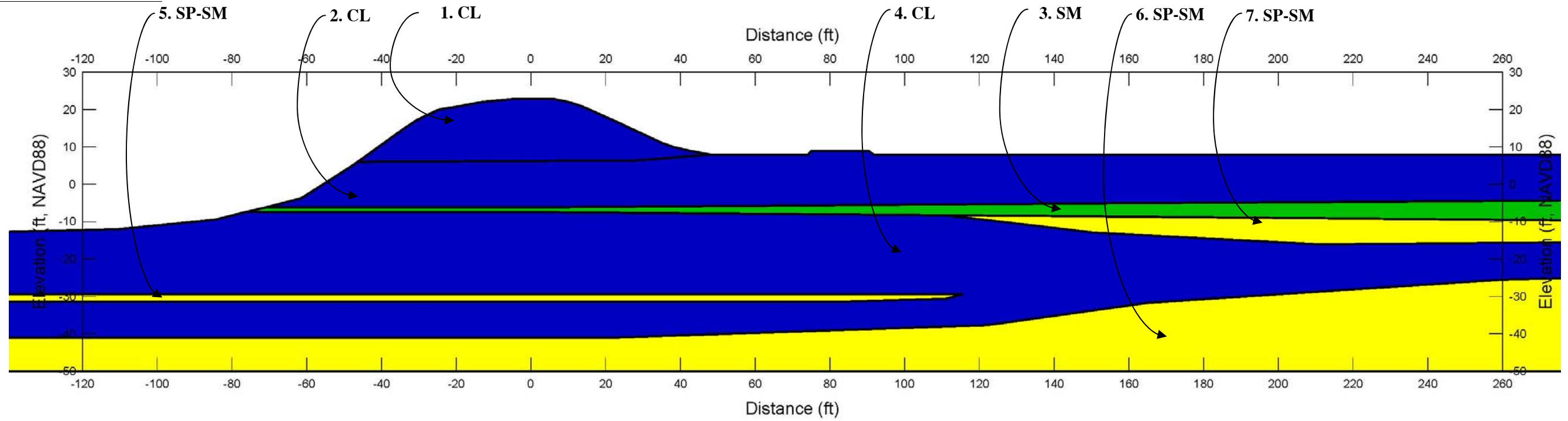
CROSS SECTION & MATERIAL PARAMETERS  
 REACH C3B - STA 158+00  
 RECLAMATION DISTRICT NO. 17  
 SAN JOAQUIN COUNTY, CALIFORNIA

PROJECT NO.: 5747.005.000	
SCALE:	NO SCALE
DRAWN BY:	MH
CHECKED BY:	NS

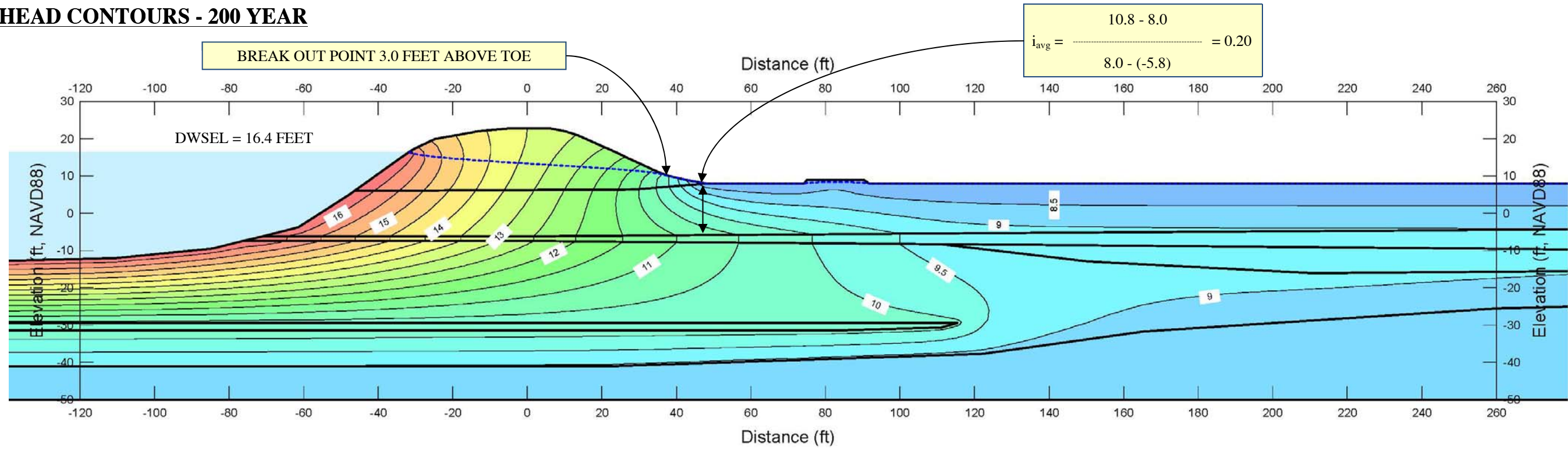
FIGURE NO.  
**E-9-A**

COPYRIGHT © 2014 BY ENGEO INCORPORATED. THIS DOCUMENT MAY NOT BE REPRODUCED IN WHOLE OR IN PART BY ANY MEANS WHATSOEVER, NOR MAY IT BE QUOTED OR EXCERPTED WITHOUT THE EXPRESS WRITTEN CONSENT OF ENGEO INCORPORATED.

### GEOMETRY OF MODEL



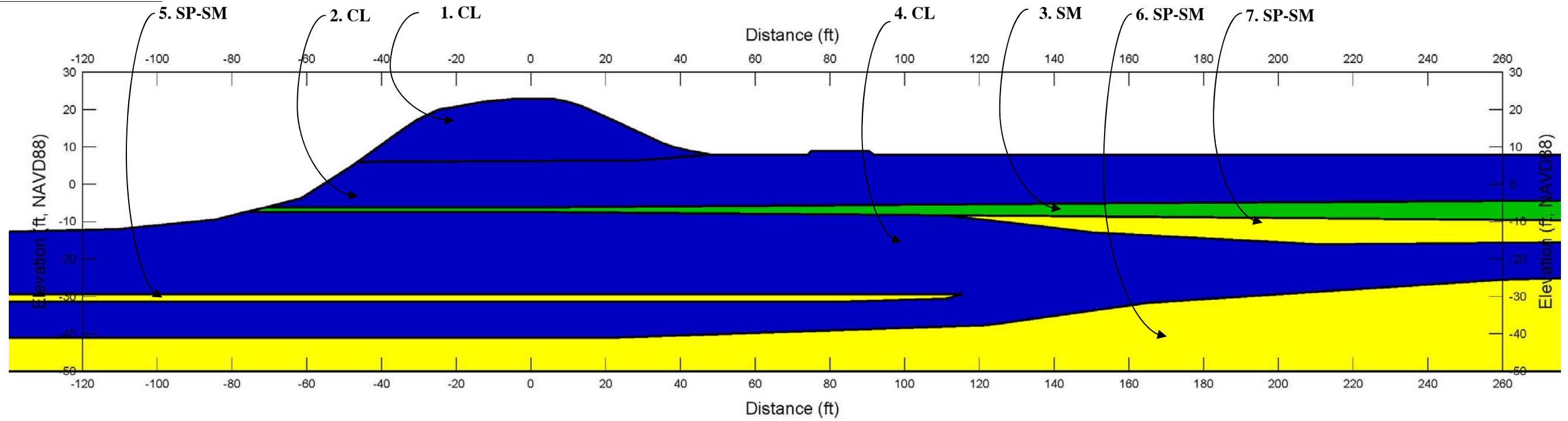
### TOTAL HEAD CONTOURS - 200 YEAR



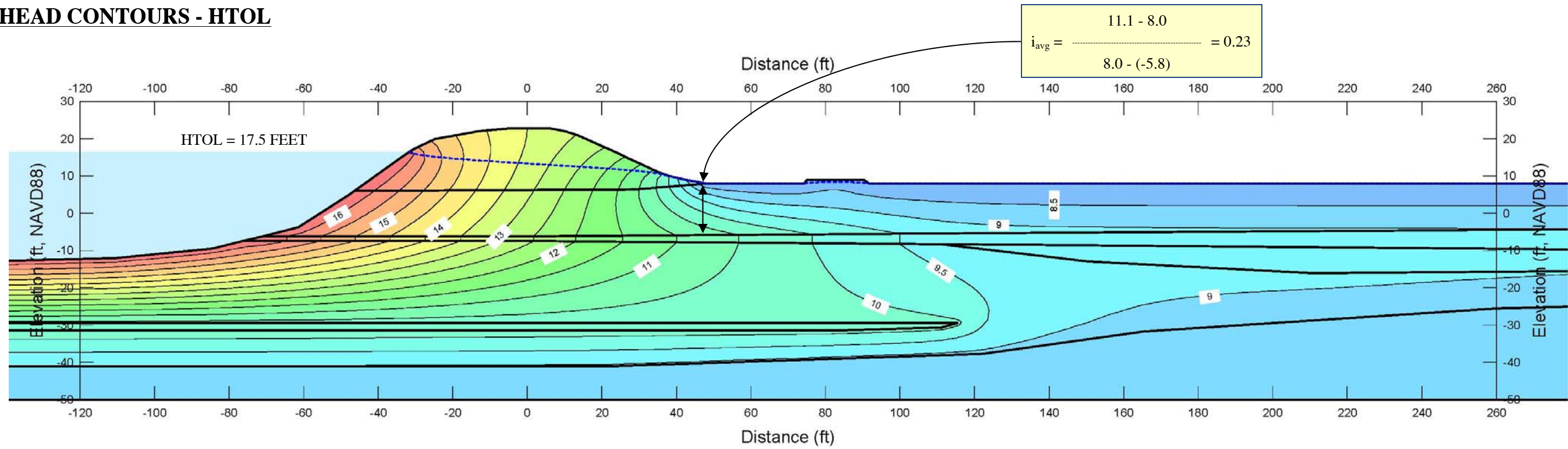
	SEEPAGE ANALYSIS REACH C3B- STA 158+00 RECLAMATION DISTRICT NO. 17 SAN JOAQUIN COUNTY, CALIFORNIA		PROJECT NO.: 5747.005.000	FIGURE NO.  <b>E-9-B</b>
			SCALE: NO SCALE	
			DRAWN BY: MH    CHECKED BY: NS	

COPYRIGHT © 2014 BY ENGEO INCORPORATED. THIS DOCUMENT MAY NOT BE REPRODUCED IN WHOLE OR IN PART BY ANY MEANS WHATSOEVER, NOR MAY IT BE QUOTED OR EXCERPTED WITHOUT THE EXPRESS WRITTEN CONSENT OF ENGEO INCORPORATED.

### GEOMETRY OF MODEL



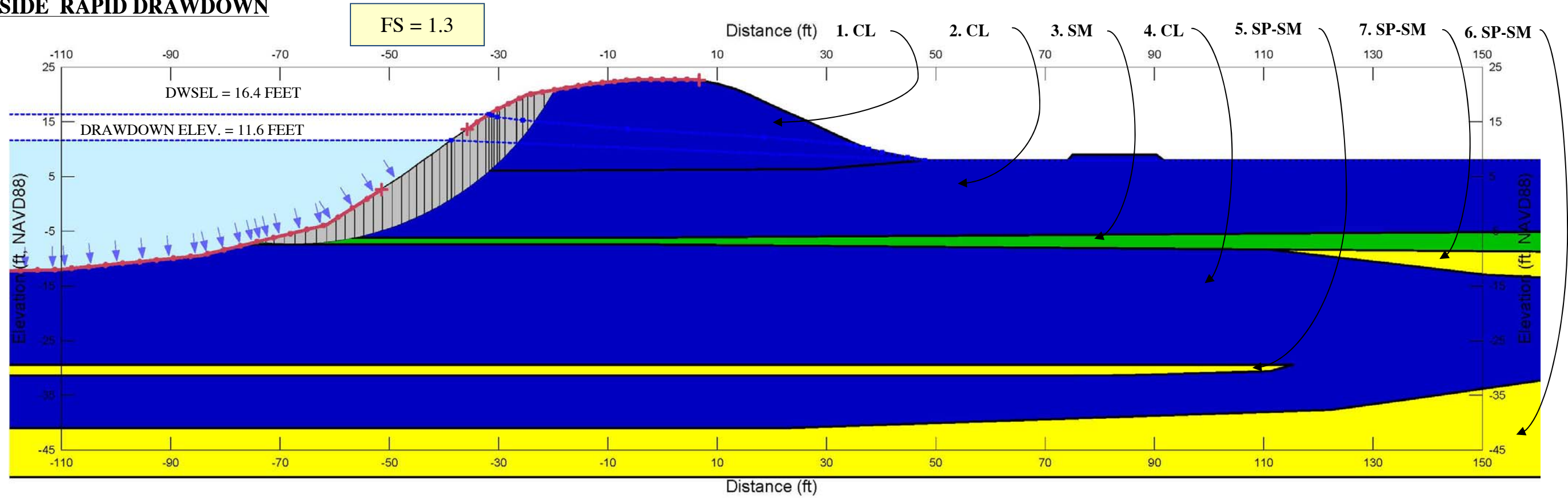
### TOTAL HEAD CONTOURS - HTOL



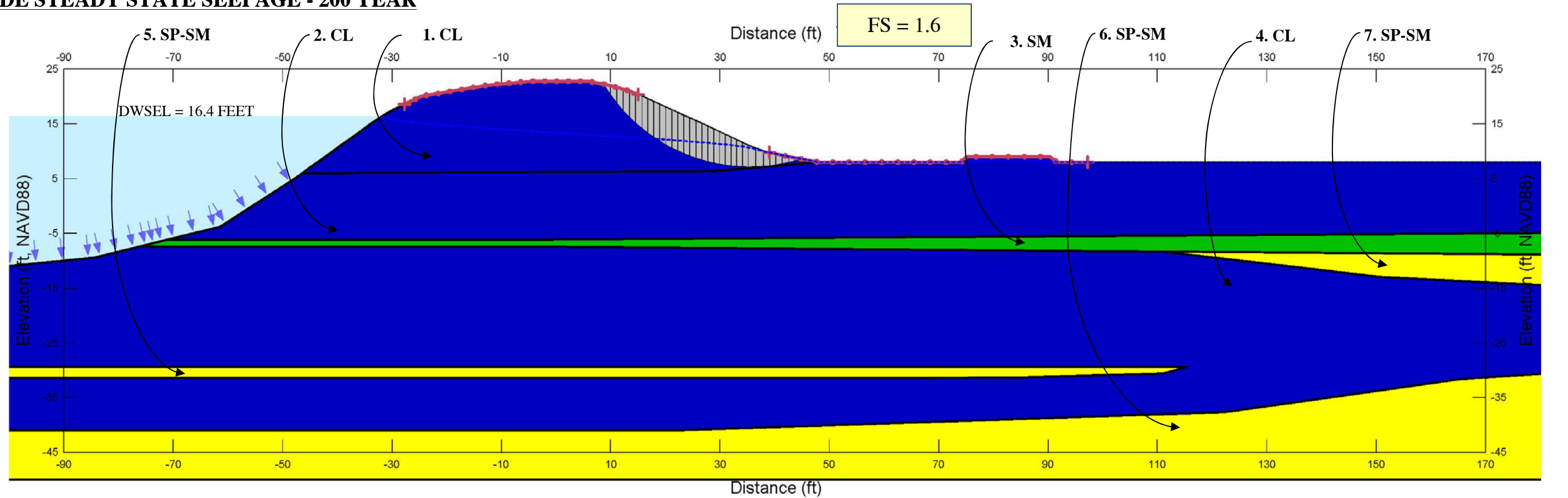
	SEEPAGE ANALYSIS REACH C3B- STA 158+00 RECLAMATION DISTRICT NO. 17 SAN JOAQUIN COUNTY, CALIFORNIA		PROJECT NO.: 5747.005.000	FIGURE NO.
			SCALE: NO SCALE	E-9-C
			DRAWN BY: MH    CHECKED BY: NS	

COPYRIGHT © 2014 BY ENGEO INCORPORATED. THIS DOCUMENT MAY NOT BE REPRODUCED IN WHOLE OR IN PART BY ANY MEANS WHATSOEVER, NOR MAY IT BE QUOTED OR EXCERPTED WITHOUT THE EXPRESS WRITTEN CONSENT OF ENGEO INCORPORATED.

### WATERSIDE RAPID DRAWDOWN



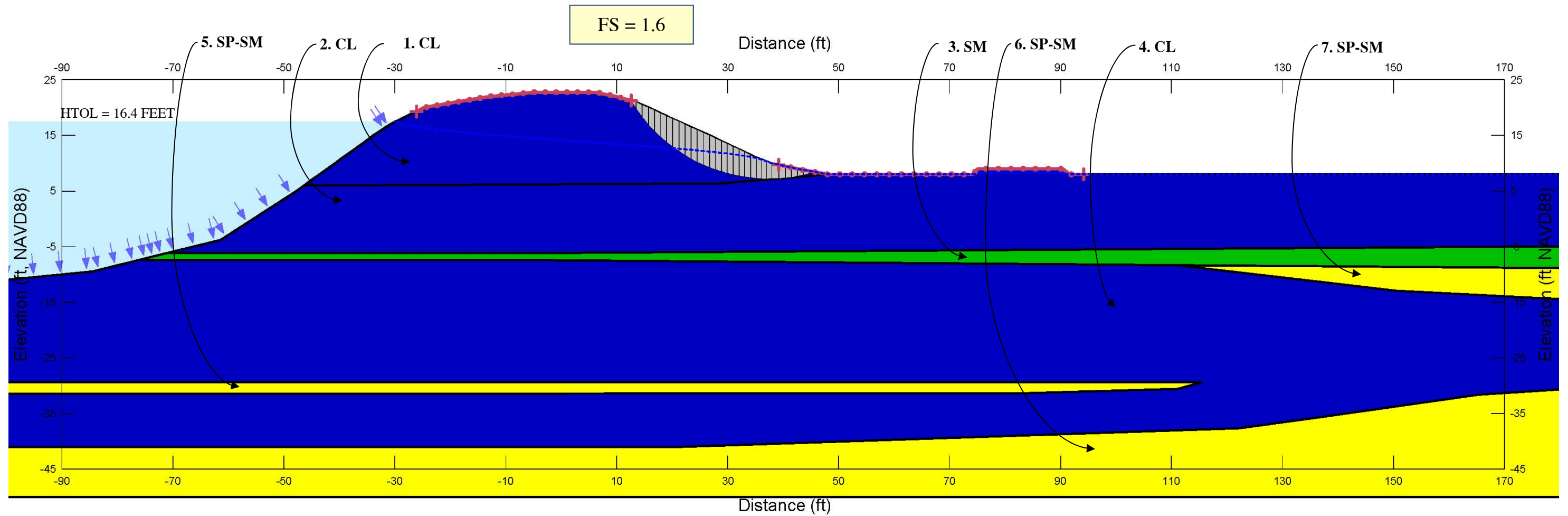
### LANDSIDE STEADY STATE SEEPAGE - 200 YEAR



	STATIC SLOPE STABILITY ANALYSIS REACH C3B- STA 158+00 RECLAMATION DISTRICT NO. 17 SAN JOAQUIN COUNTY, CALIFORNIA		PROJECT NO.: 5747.005.000	FIGURE NO.  <b>E-9-D</b>
			SCALE: NO SCALE	
			DRAWN BY: MH    CHECKED BY: NS	

COPYRIGHT © 2014 BY ENGEO INCORPORATED. THIS DOCUMENT MAY NOT BE REPRODUCED IN WHOLE OR IN PART BY ANY MEANS WHATSOEVER WITHOUT THE EXPRESS WRITTEN CONSENT OF ENGEO INCORPORATED.

### LANDSIDE STEADY STATE SEEPAGE - HTOL



STATIC SLOPE STABILITY ANALYSIS  
REACH C3B- STA 158+00  
RECLAMATION DISTRICT NO. 17  
SAN JOAQUIN COUNTY, CALIFORNIA

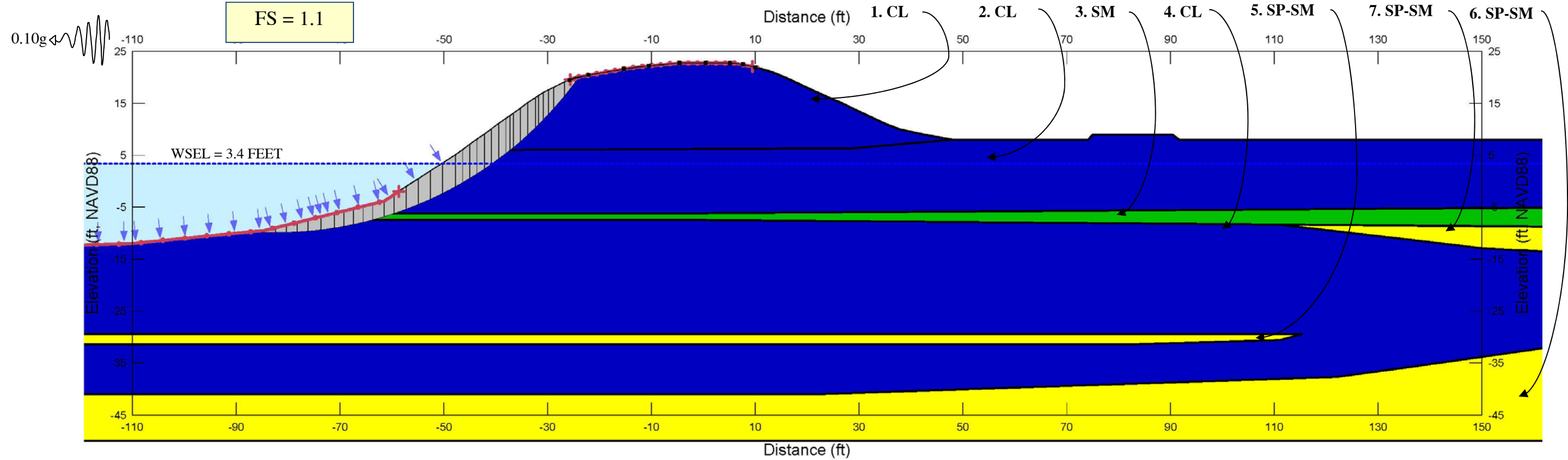
PROJECT NO.: 5747.005.000	
SCALE:	NO SCALE
DRAWN BY:	MH
CHECKED BY:	NS

FIGURE NO.  
**E-9-E**

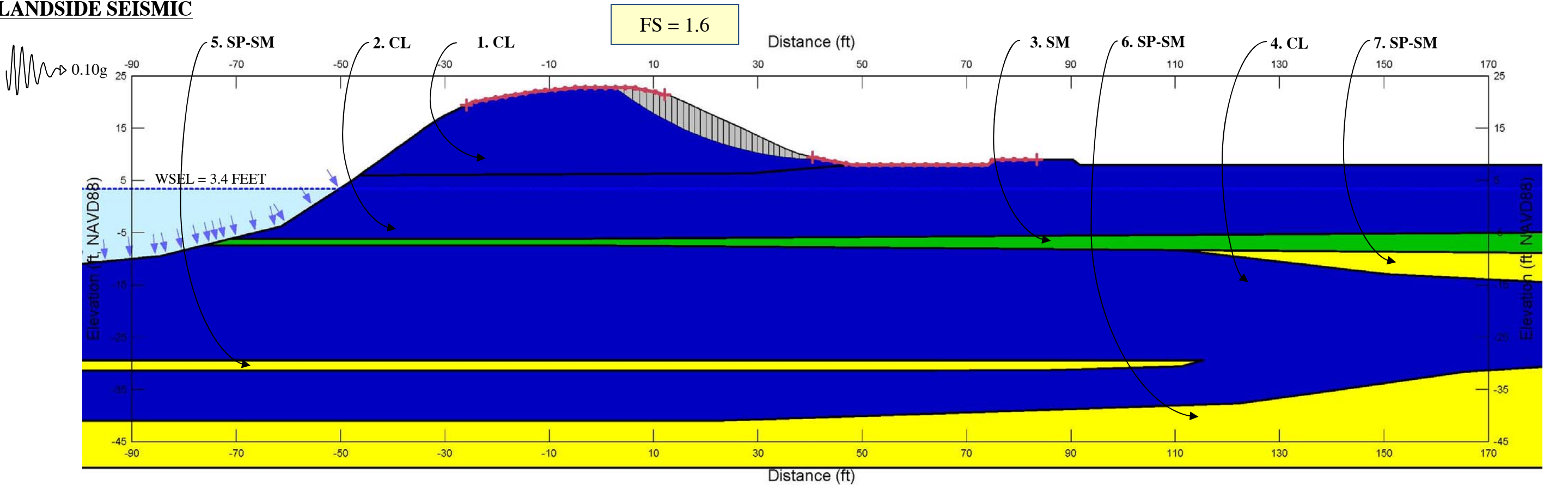



COPYRIGHT © 2014 BY ENGEO INCORPORATED. THIS DOCUMENT MAY NOT BE REPRODUCED IN WHOLE OR IN PART BY ANY MEANS WHATSOEVER, NOR MAY IT BE QUOTED OR EXCERPTED WITHOUT THE EXPRESS WRITTEN CONSENT OF ENGEO INCORPORATED.

### WATERSIDE SEISMIC



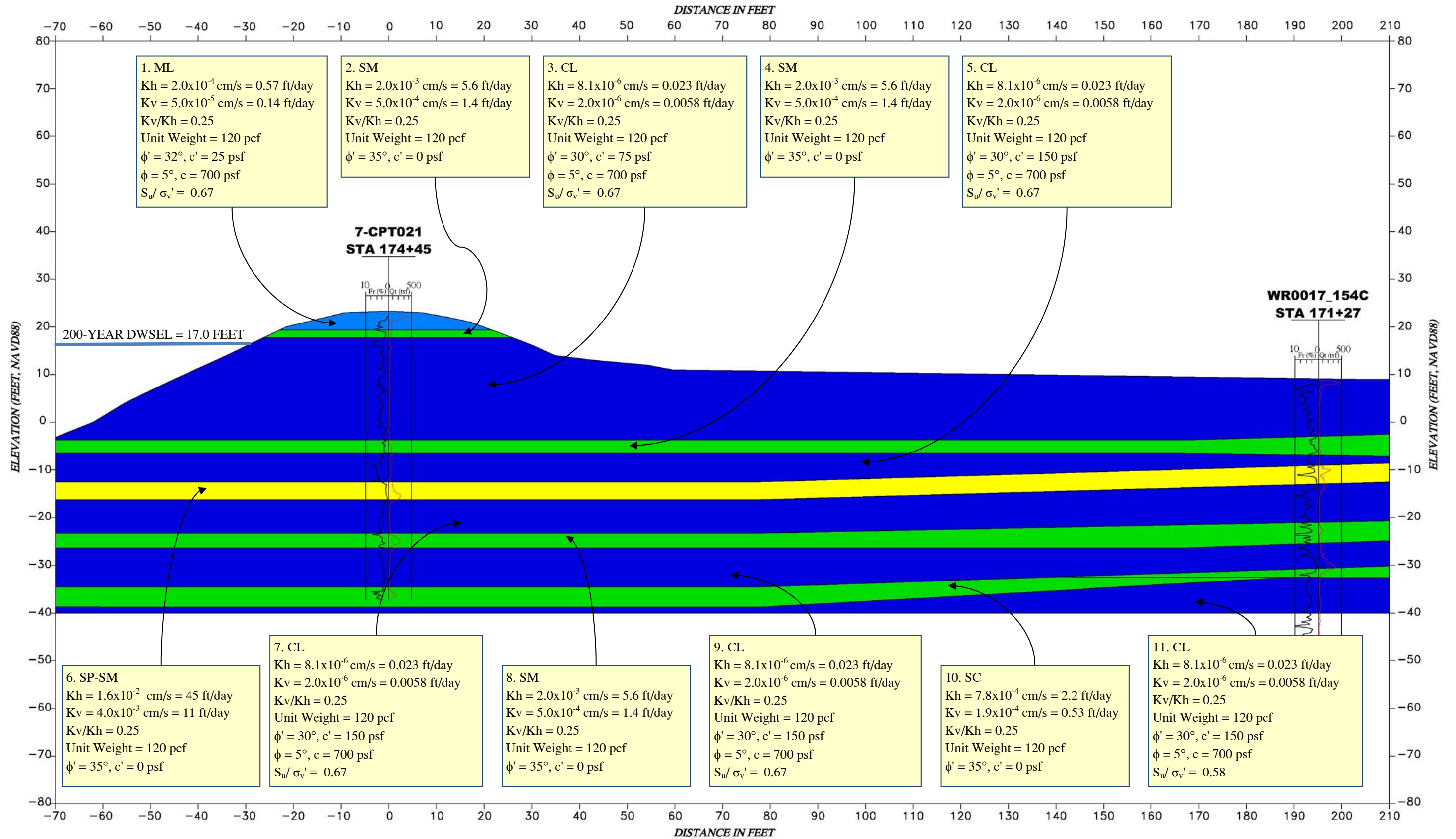
### LANDSIDE SEISMIC



 <p>Expect Excellence</p>	SEISMIC SLOPE STABILITY ANALYSIS REACH C3B - STA 158+00 RECLAMATION DISTRICT NO. 17 SAN JOAQUIN COUNTY, CALIFORNIA		PROJECT NO.: 5747.005.000	FIGURE NO. <b>E-9-F</b>
			SCALE: NO SCALE	
			DRAWN BY: MH    CHECKED BY: NS	

# WATERSIDE

# LANDSIDE



COPYRIGHT © 2014 BY ENGEO INCORPORATED. THIS DOCUMENT MAY NOT BE REPRODUCED IN WHOLE OR IN PART BY ANY MEANS WHATSOEVER, NOR MAY IT BE QUOTED OR EXCERPTED WITHOUT THE EXPRESS WRITTEN CONSENT OF ENGEO INCORPORATED.



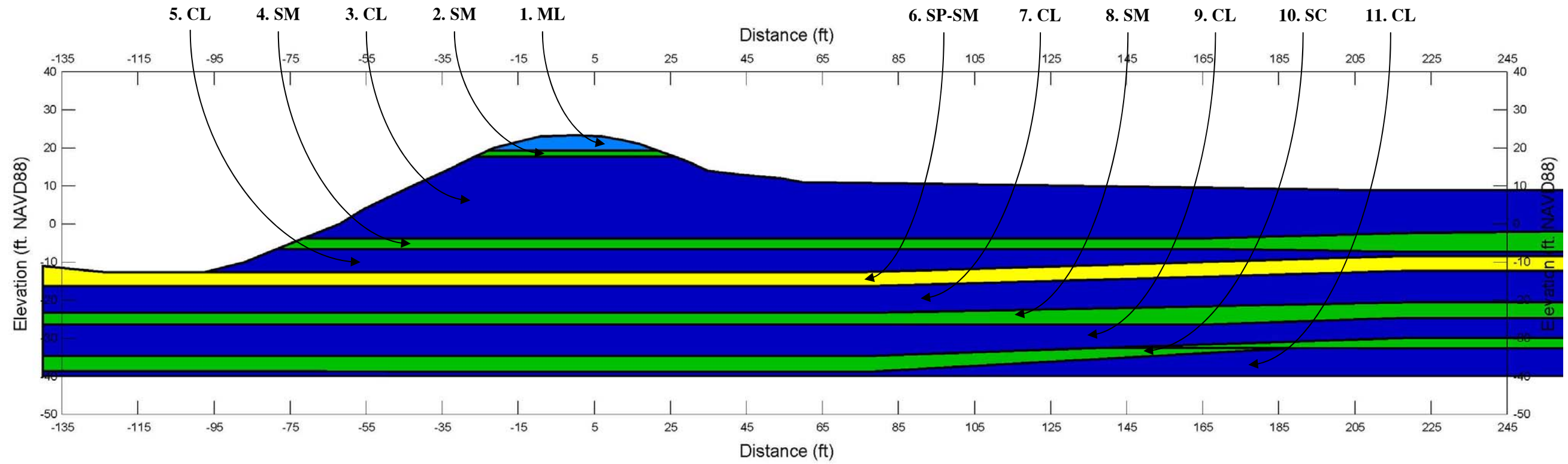
**CROSS SECTION & MATERIAL PARAMETERS**  
 REACH C4A - STA 174+45  
 RECLAMATION DISTRICT NO. 17  
 SAN JOAQUIN COUNTY, CALIFORNIA

PROJECT NO.: 5747.005.000  
 SCALE: NO SCALE  
 DRAWN BY: ZR CHECKED BY: NS

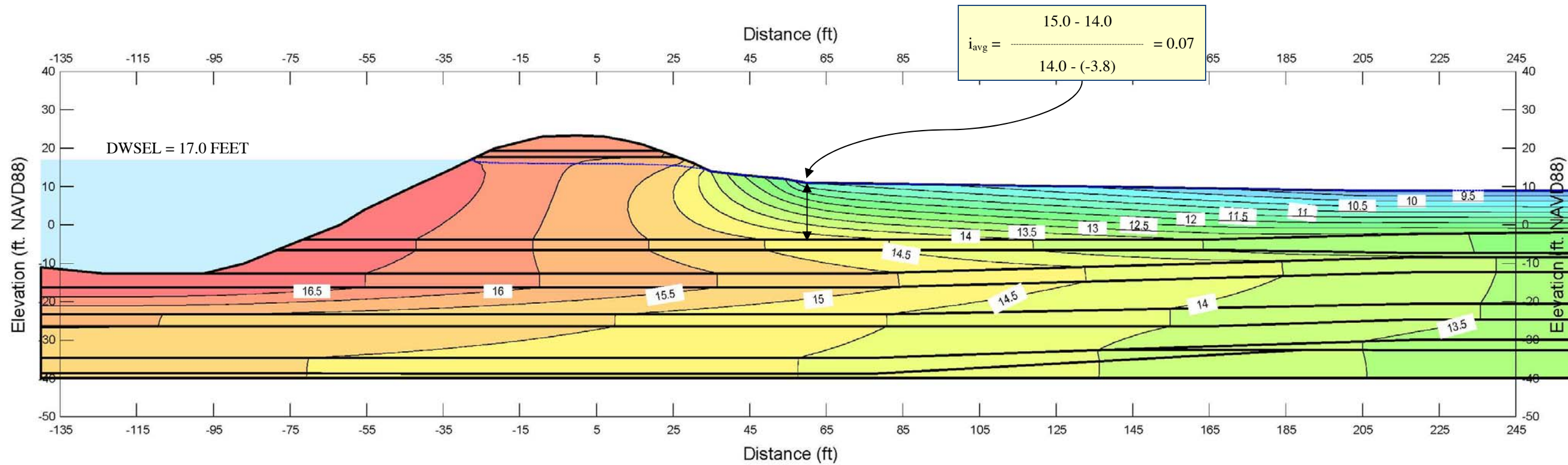
FIGURE NO.  
**E-10-A**

COPYRIGHT © 2014 BY ENGEO INCORPORATED. THIS DOCUMENT MAY NOT BE REPRODUCED IN WHOLE OR IN PART BY ANY MEANS WHATSOEVER WITHOUT THE EXPRESS WRITTEN CONSENT OF ENGEO INCORPORATED.

### GEOMETRY OF MODEL



### TOTAL HEAD CONTOURS - 200 YEAR



SEEPAGE ANALYSIS  
 REACH C4A - STA 174+45  
 RECLAMATION DISTRICT NO. 17  
 SAN JOAQUIN COUNTY, CALIFORNIA

PROJECT NO.: 5747.005.000

SCALE: NO SCALE

DRAWN BY: ZR

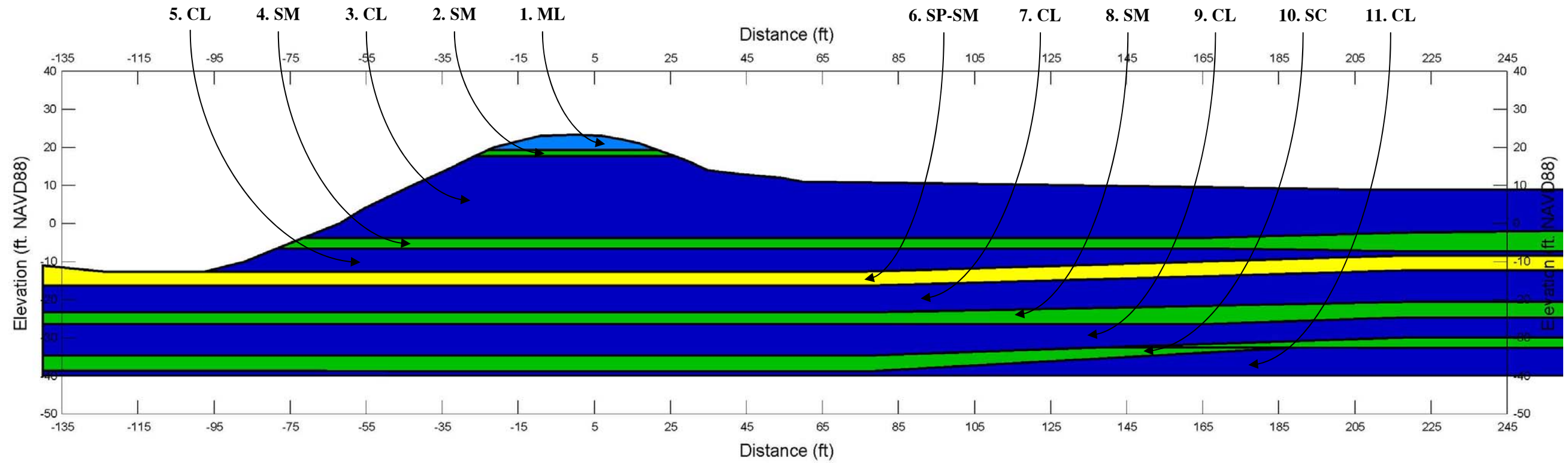
CHECKED BY: NS

FIGURE NO.

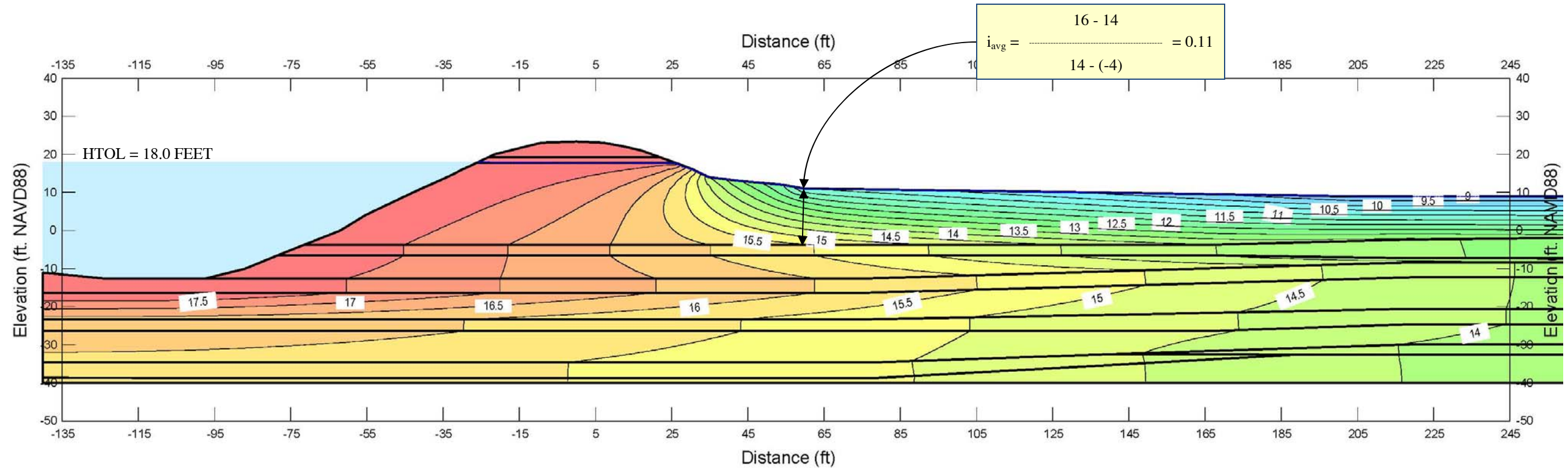
E-10-B

COPYRIGHT © 2014 BY ENGEO INCORPORATED. THIS DOCUMENT MAY NOT BE REPRODUCED IN WHOLE OR IN PART BY ANY MEANS WHATSOEVER, NOR MAY IT BE QUOTED OR EXCERPTED WITHOUT THE EXPRESS WRITTEN CONSENT OF ENGEO INCORPORATED.

### GEOMETRY OF MODEL



### TOTAL HEAD CONTOURS - HTOL



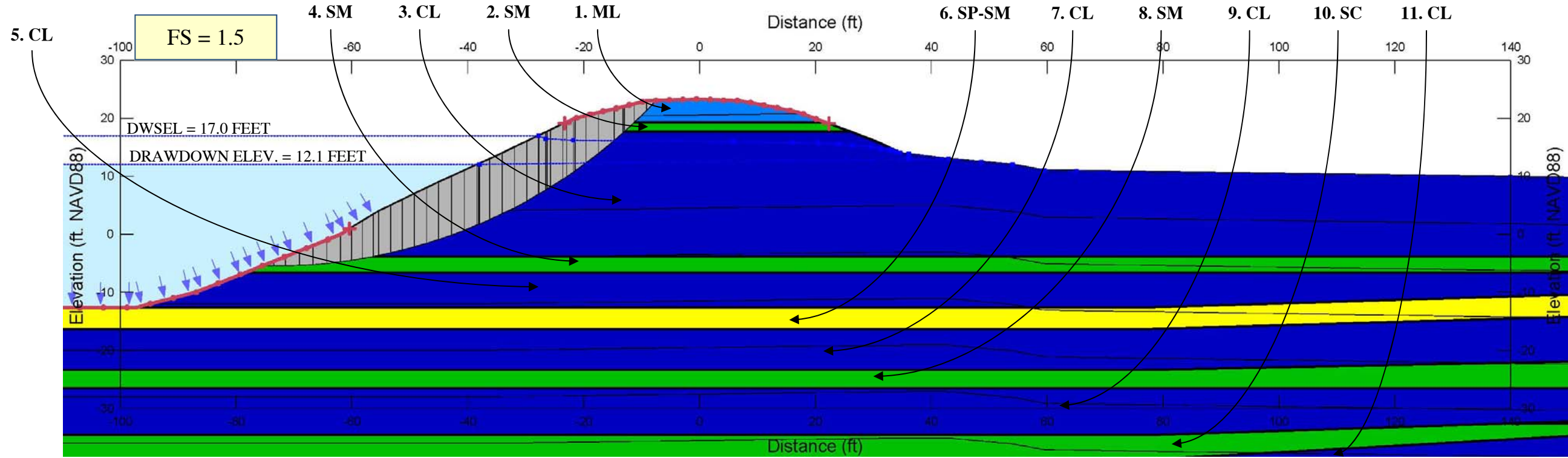
SEEPAGE ANALYSIS  
 REACH C4A - STA 174+45  
 RECLAMATION DISTRICT NO. 17  
 SAN JOAQUIN COUNTY, CALIFORNIA

PROJECT NO.: 5747.005.000	
SCALE:	NO SCALE
DRAWN BY:	ZR
CHECKED BY:	NS

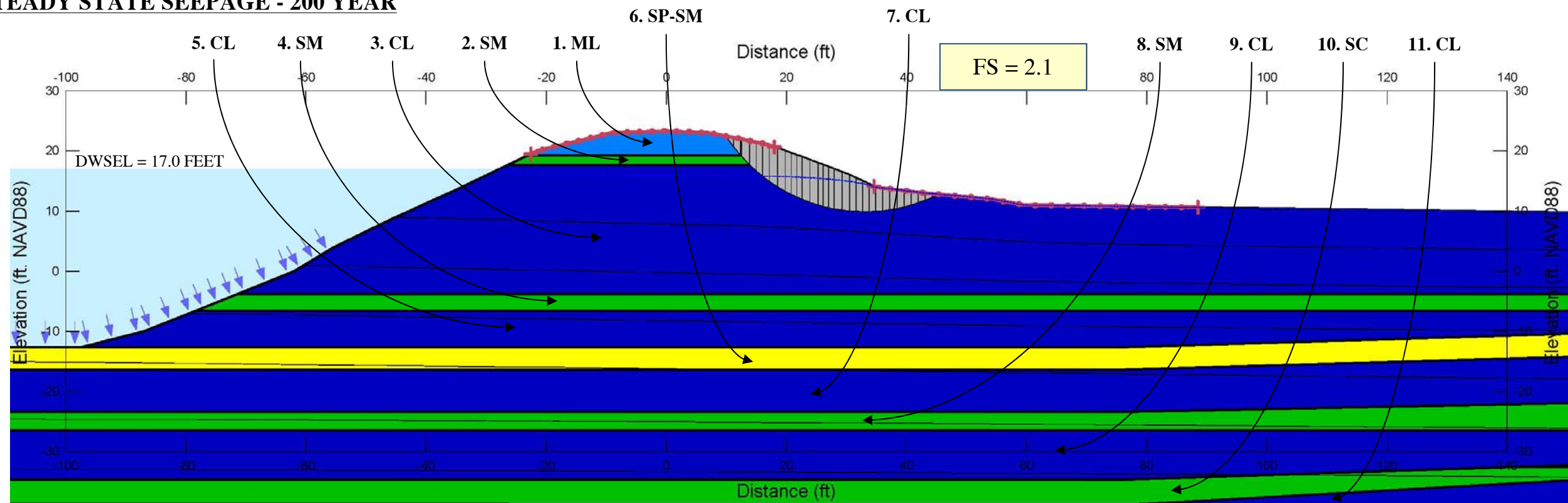
FIGURE NO.  
**E-10-C**

COPYRIGHT © 2014 BY ENGEO INCORPORATED. THIS DOCUMENT MAY NOT BE REPRODUCED IN WHOLE OR IN PART BY ANY MEANS WHATSOEVER, NOR MAY IT BE QUOTED OR EXCERPTED WITHOUT THE EXPRESS WRITTEN CONSENT OF ENGEO INCORPORATED.

### WATERSIDE RAPID DRAWDOWN



### LANDSIDE STEADY STATE SEEPAGE - 200 YEAR



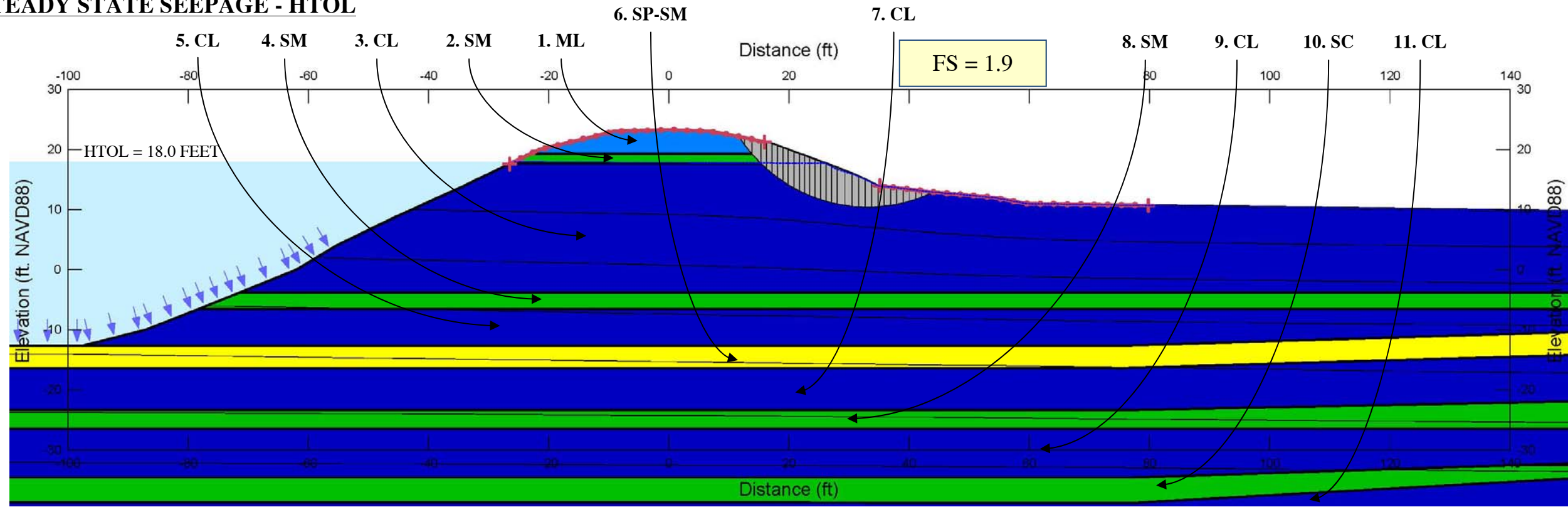
STATIC SLOPE STABILITY ANALYSIS  
 REACH C4A - STA 174+45  
 RECLAMATION DISTRICT NO. 17  
 SAN JOAQUIN COUNTY, CALIFORNIA

PROJECT NO.: 5747.005.000	
SCALE:	NO SCALE
DRAWN BY: ZR	CHECKED BY: NS

FIGURE NO.  
**E-10-D**

COPYRIGHT © 2014 BY ENGEO INCORPORATED. THIS DOCUMENT MAY NOT BE REPRODUCED IN WHOLE OR IN PART BY ANY MEANS WHATSOEVER WITHOUT THE EXPRESS WRITTEN CONSENT OF ENGEO INCORPORATED.

### LANDSIDE STEADY STATE SEEPAGE - HTOL



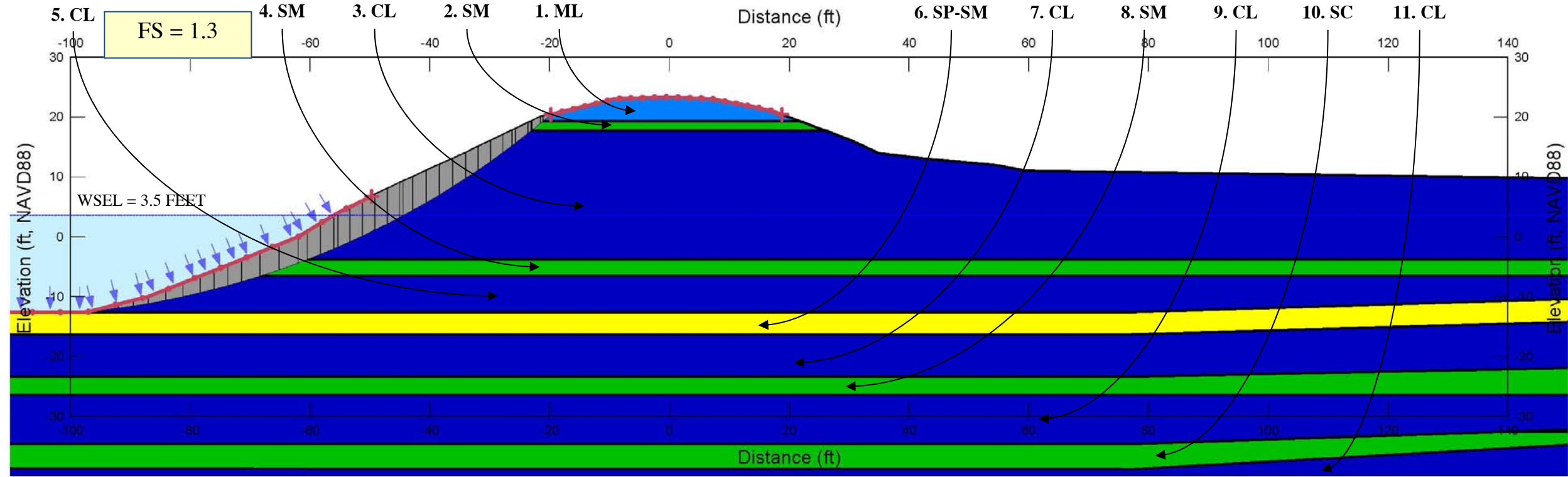
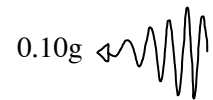
STATIC SLOPE STABILITY ANALYSIS  
 REACH C4A - STA 174+45  
 RECLAMATION DISTRICT NO. 17  
 SAN JOAQUIN COUNTY, CALIFORNIA

PROJECT NO.: 5747.005.000	
SCALE:	NO SCALE
DRAWN BY:	ZR
CHECKED BY:	NS

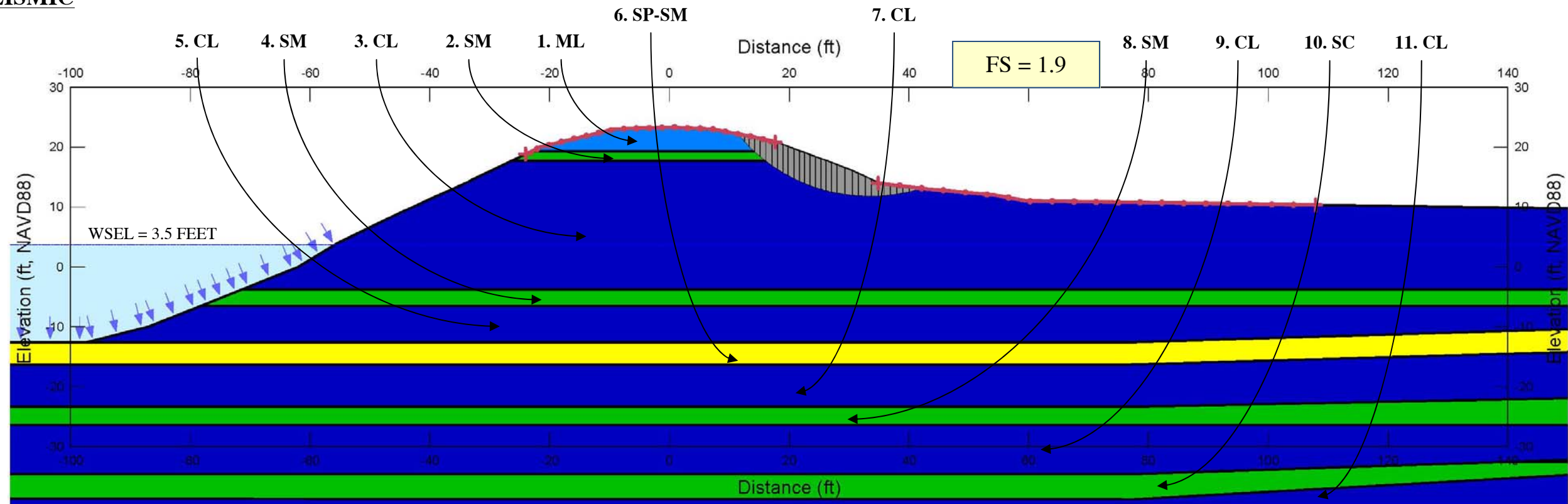
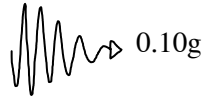
FIGURE NO.  
**E-10-E**

COPYRIGHT © 2014 BY ENGEO INCORPORATED. THIS DOCUMENT MAY NOT BE REPRODUCED IN WHOLE OR IN PART BY ANY MEANS WHATSOEVER, NOR MAY IT BE QUOTED OR EXCERPTED WITHOUT THE EXPRESS WRITTEN CONSENT OF ENGEO INCORPORATED.

### WATERSIDE SEISMIC



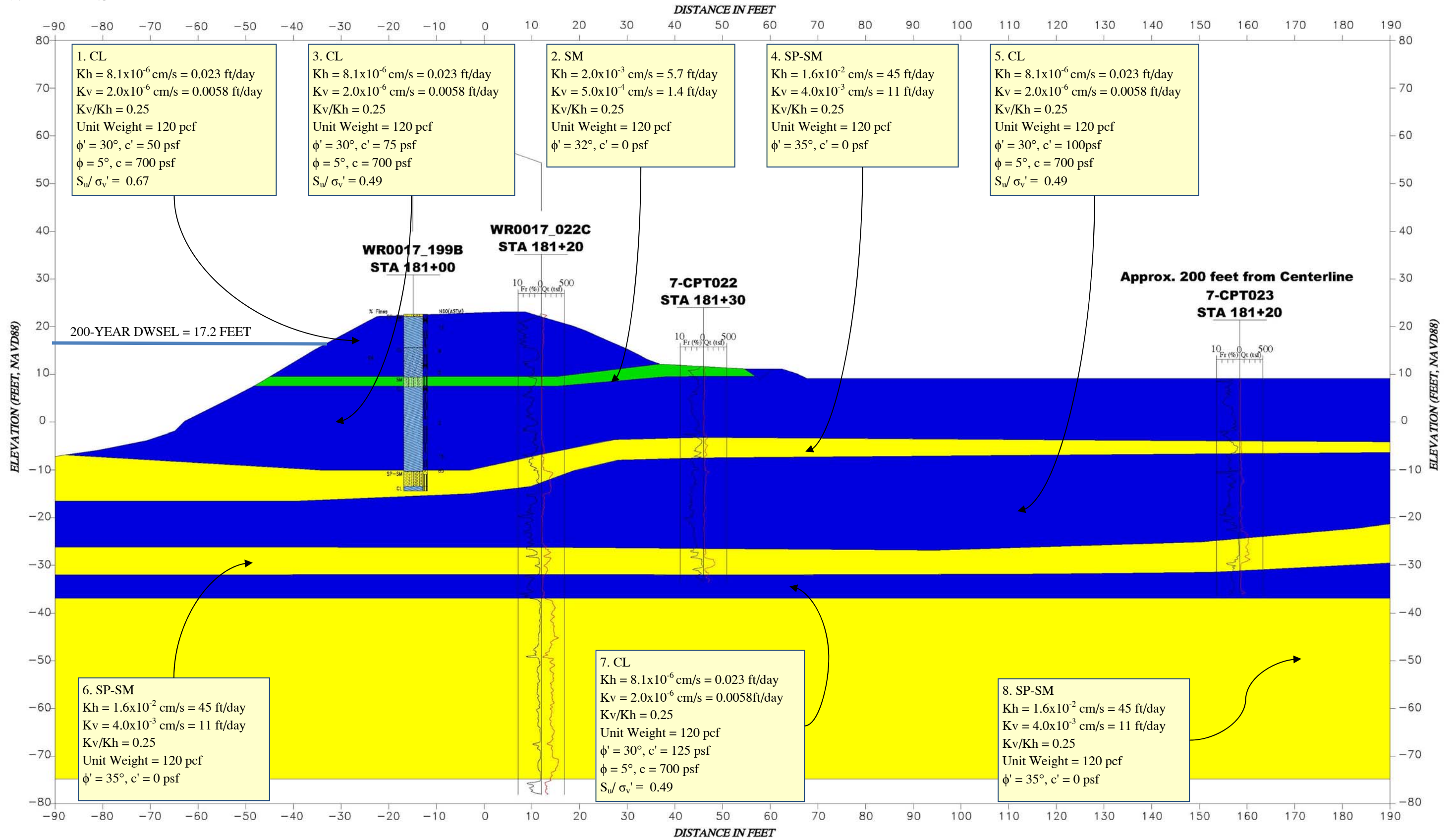
### LANDSIDE SEISMIC



	<b>SEISMIC SLOPE STABILITY ANALYSIS</b> REACH C4A - STA 174+45 RECLAMATION DISTRICT NO. 17 SAN JOAQUIN COUNTY, CALIFORNIA		PROJECT NO.: 5747.005.000	FIGURE NO.  <b>E-10-F</b>
			SCALE: NO SCALE	
			DRAWN BY: ZR    CHECKED BY: NS	

# WATERSIDE

# LANDSIDE



COPYRIGHT © 2014 BY ENGEO INCORPORATED. THIS DOCUMENT MAY NOT BE REPRODUCED IN WHOLE OR IN PART BY ANY MEANS WHATSOEVER, NOR MAY IT BE QUOTED OR EXCERPTED WITHOUT THE EXPRESS WRITTEN CONSENT OF ENGEO INCORPORATED.



**CROSS SECTION & MATERIAL PARAMETERS**  
 REACH C4B - STA 181+00  
 RECLAMATION DISTRICT NO. 17  
 SAN JOAQUIN COUNTY, CALIFORNIA

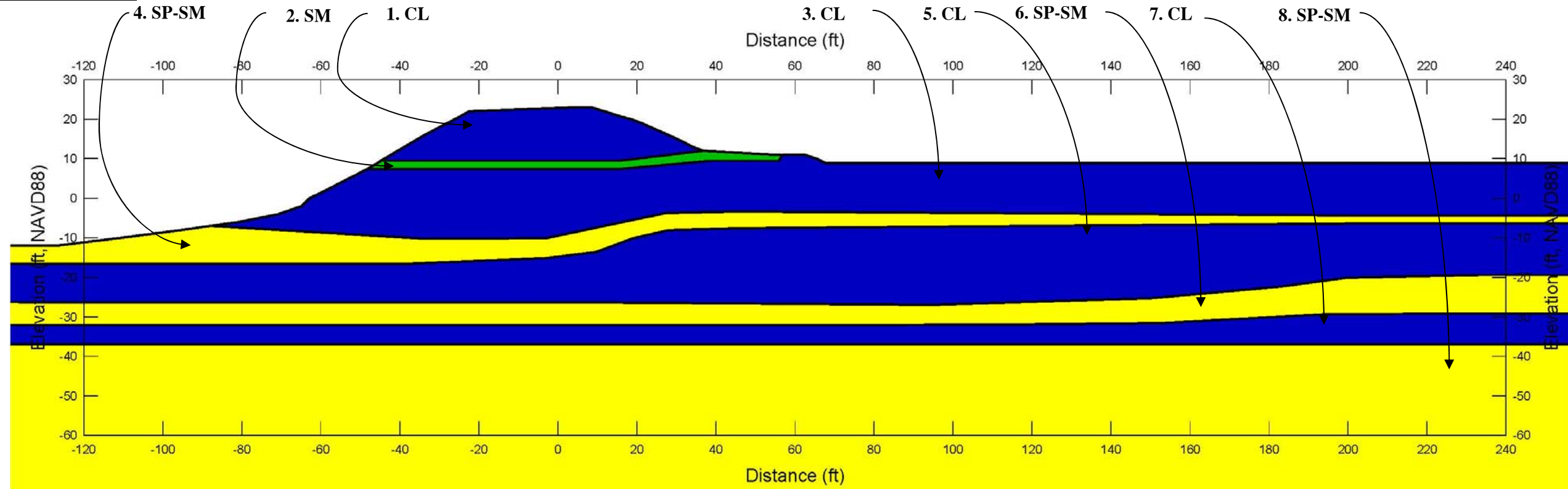
PROJECT NO.: 5747.005.000	
SCALE:	NO SCALE
DRAWN BY:	MH
CHECKED BY:	NS

FIGURE NO.  
**E-11-A**

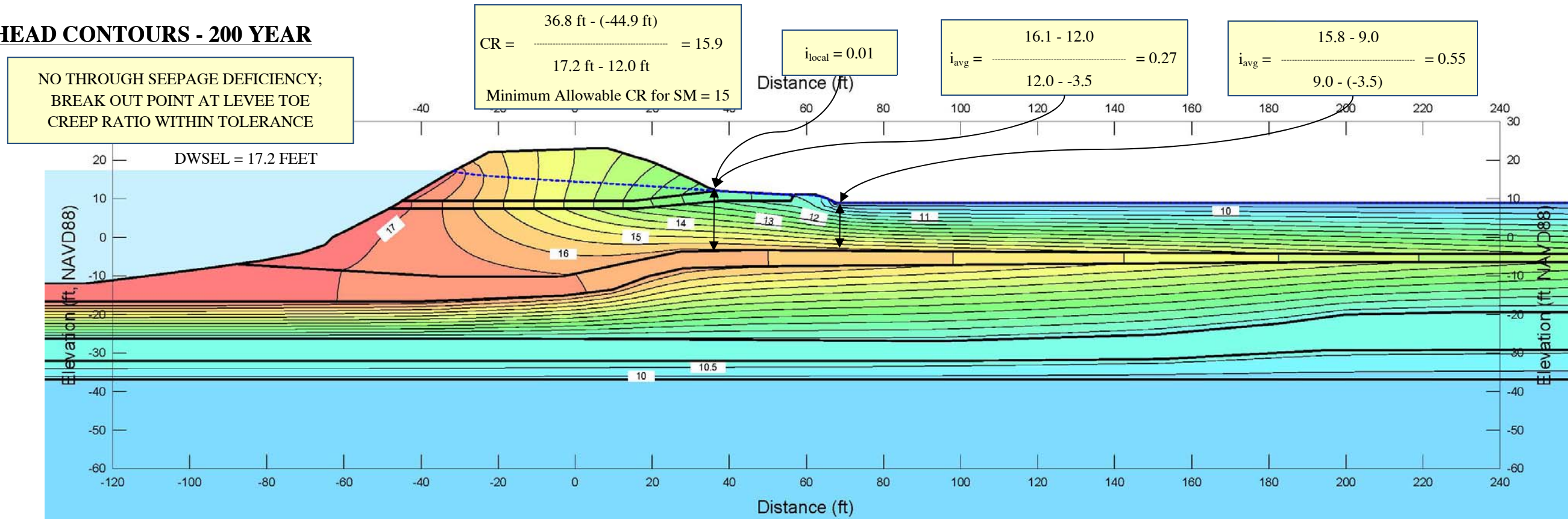


COPYRIGHT © 2014 BY ENGEO INCORPORATED. THIS DOCUMENT MAY NOT BE REPRODUCED IN WHOLE OR IN PART BY ANY MEANS WHATSOEVER, NOR MAY IT BE QUOTED OR EXCERPTED WITHOUT THE EXPRESS WRITTEN CONSENT OF ENGEO INCORPORATED.

### GEOMETRY OF MODEL



### TOTAL HEAD CONTOURS - 200 YEAR



SEEPAGE ANALYSIS  
 REACH C4B - STA 181+00  
 RECLAMATION DISTRICT NO. 17  
 SAN JOAQUIN COUNTY, CALIFORNIA

PROJECT NO.: 5747.005.000

SCALE: NO SCALE

DRAWN BY: MH

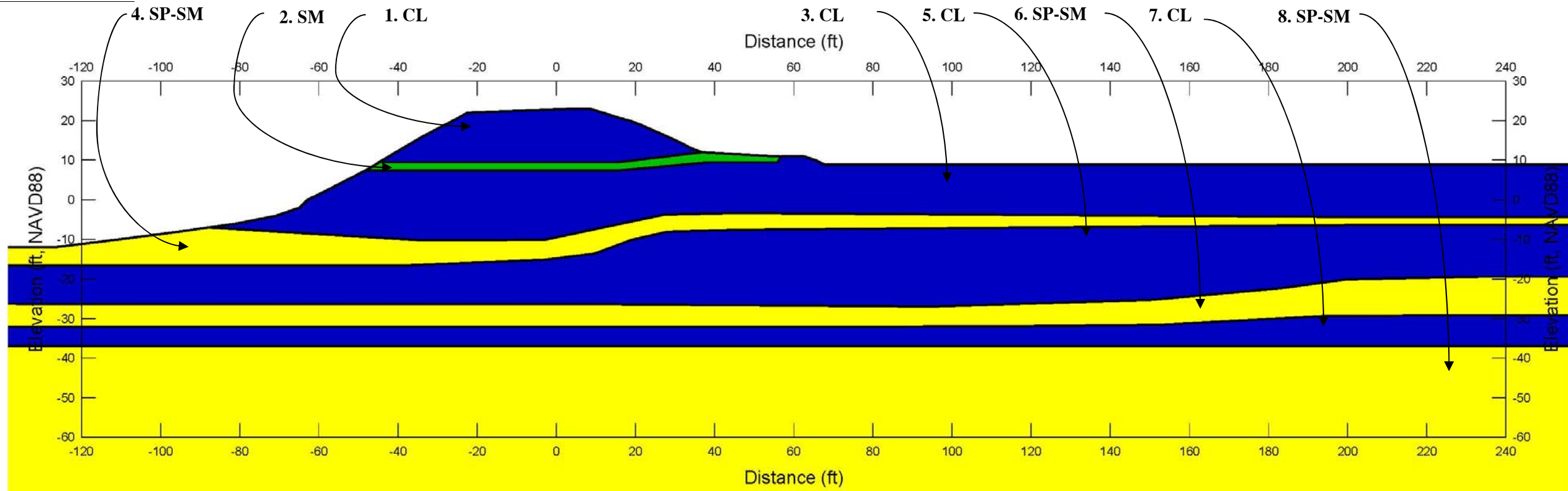
CHECKED BY: NS

FIGURE NO.

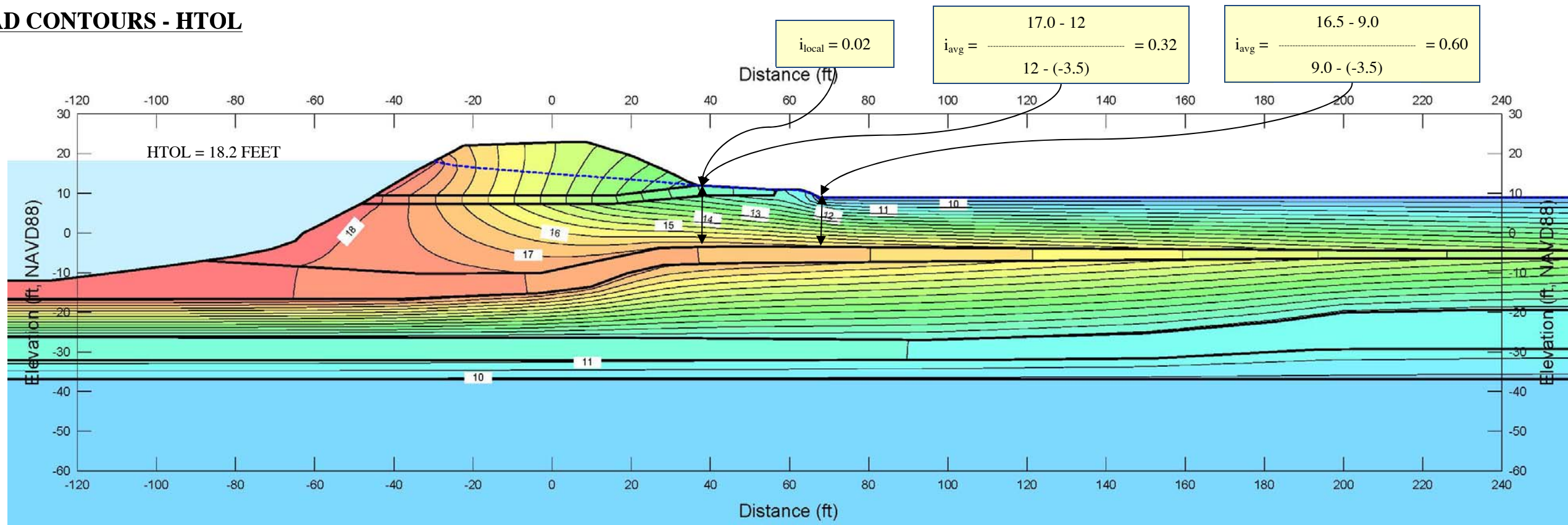
E-11-B

COPYRIGHT © 2014 BY ENGEO INCORPORATED. THIS DOCUMENT MAY NOT BE REPRODUCED IN WHOLE OR IN PART BY ANY MEANS WHATSOEVER, NOR MAY IT BE QUOTED OR EXCERPTED WITHOUT THE EXPRESS WRITTEN CONSENT OF ENGEO INCORPORATED.

### GEOMETRY OF MODEL



### TOTAL HEAD CONTOURS - HTOL

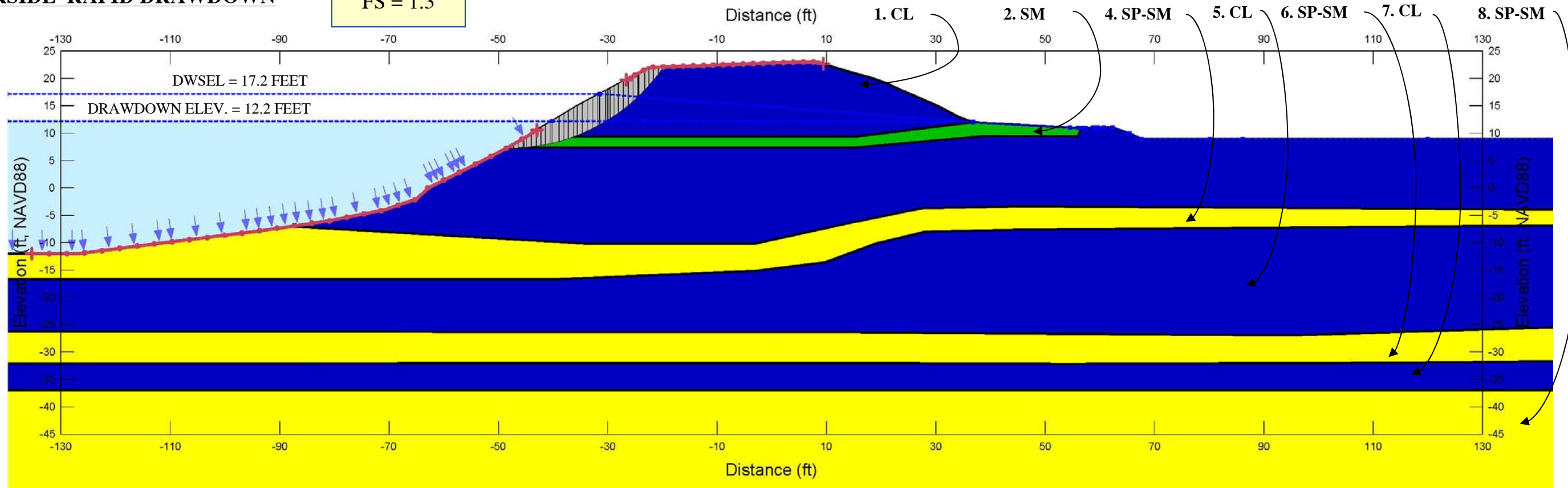


	SEEPAGE ANALYSIS REACH C4B - STA 181+00 RECLAMATION DISTRICT NO. 17 SAN JOAQUIN COUNTY, CALIFORNIA		PROJECT NO.: 5747.005.000	FIGURE NO.
			SCALE: NO SCALE	E-11-C
			DRAWN BY: MH    CHECKED BY: NS	

COPYRIGHT © 2014 BY ENGEO INCORPORATED. THIS DOCUMENT MAY NOT BE REPRODUCED IN WHOLE OR IN PART BY ANY MEANS WHATSOEVER, NOR MAY IT BE QUOTED OR EXCERPTED WITHOUT THE EXPRESS WRITTEN CONSENT OF ENGEO INCORPORATED.

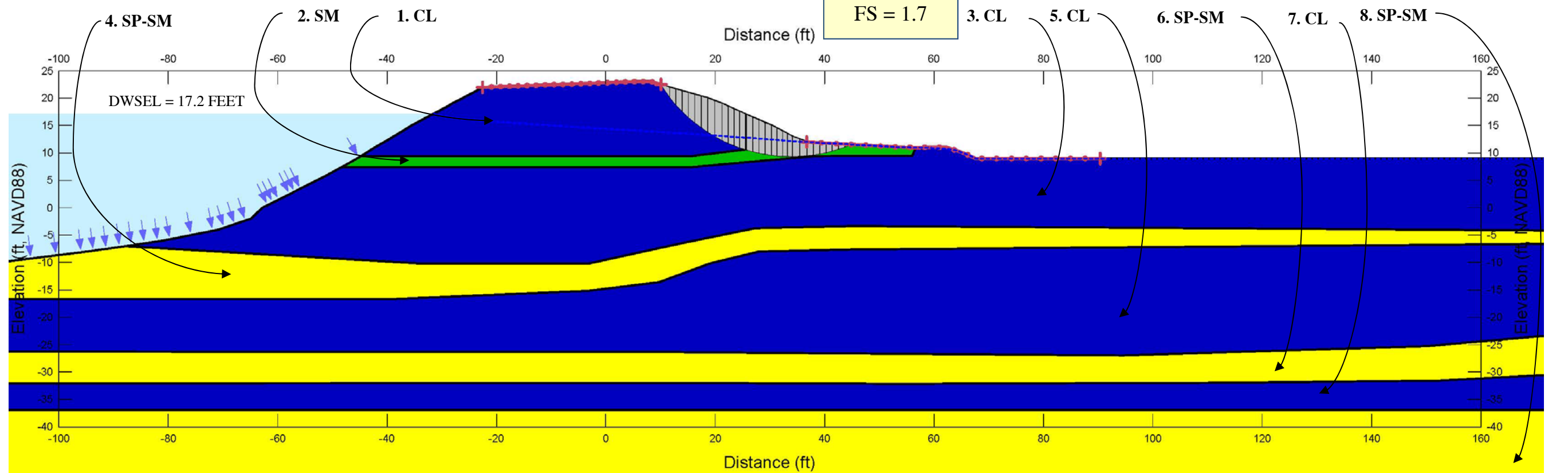
### WATERSIDE RAPID DRAWDOWN

FS = 1.3



### LANDSIDE STEADY STATE SEEPAGE - 200 YEAR

FS = 1.7



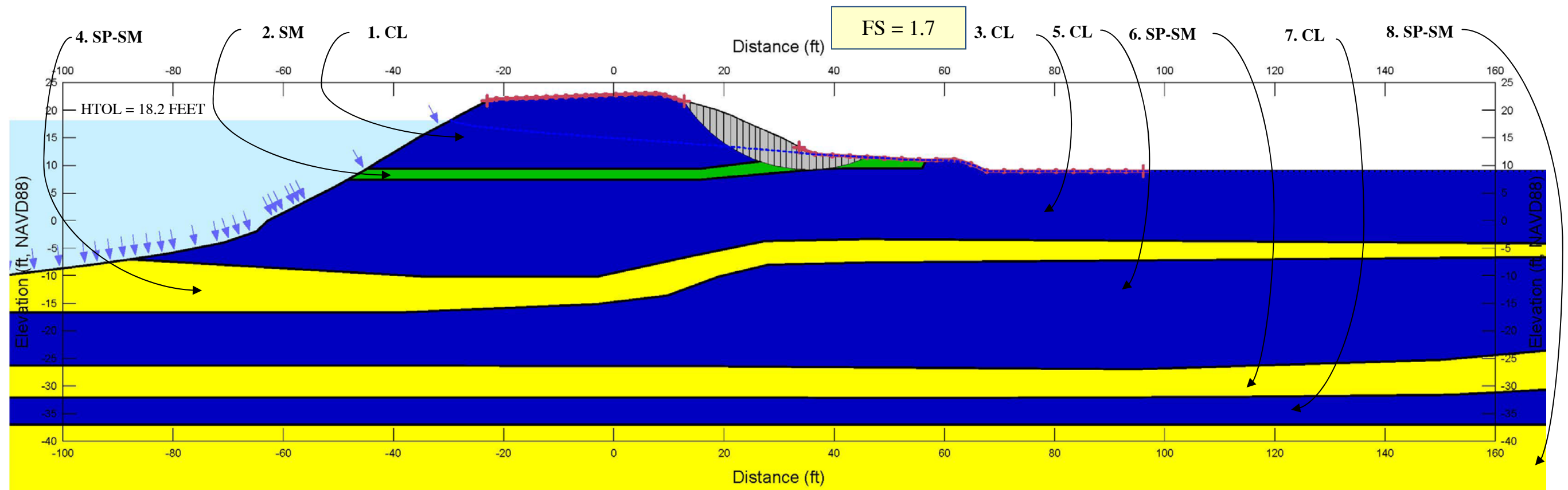
STATIC SLOPE STABILITY ANALYSIS  
 REACH C4B - STA 181+00  
 RECLAMATION DISTRICT NO. 17  
 SAN JOAQUIN COUNTY, CALIFORNIA

PROJECT NO.: 5747.005.000	
SCALE:	NO SCALE
DRAWN BY:	MH
CHECKED BY:	NS

FIGURE NO.  
**E-11-D**

COPYRIGHT © 2014 BY ENGEO INCORPORATED. THIS DOCUMENT MAY NOT BE REPRODUCED IN WHOLE OR IN PART BY ANY MEANS WHATSOEVER WITHOUT THE EXPRESS WRITTEN CONSENT OF ENGEO INCORPORATED.

### LANDSIDE STEADY STATE SEEPAGE - HTOL



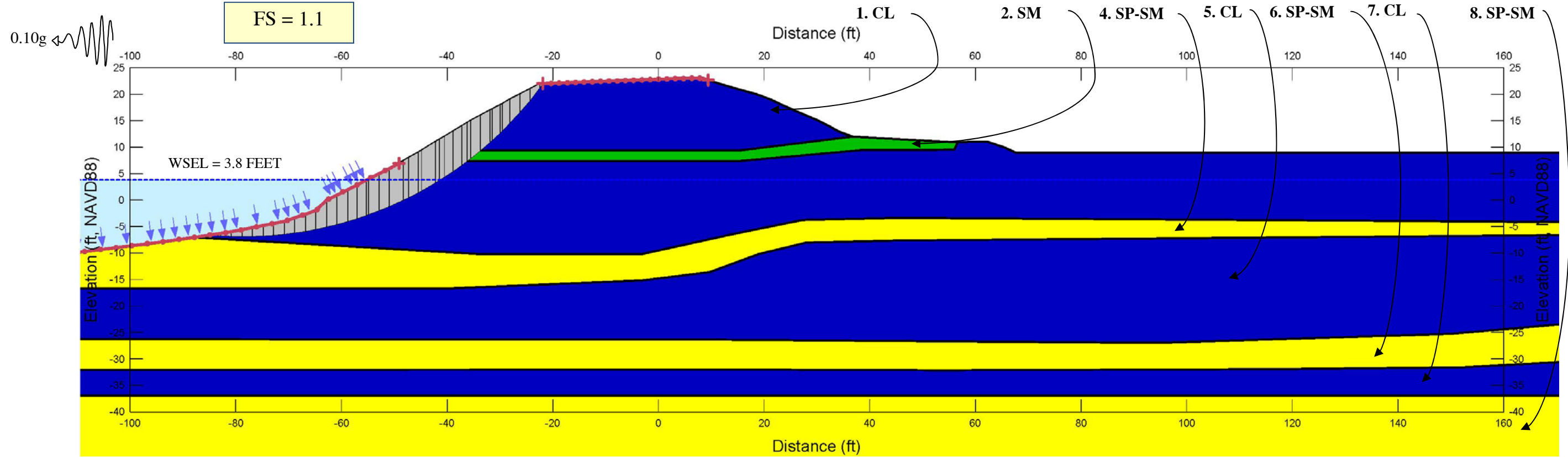
STATIC SLOPE STABILITY ANALYSIS  
REACH C4B - STA 181+00  
RECLAMATION DISTRICT NO. 17  
SAN JOAQUIN COUNTY, CALIFORNIA

PROJECT NO.: 5747.005.000	
SCALE: NO SCALE	
DRAWN BY: MH	CHECKED BY: NS

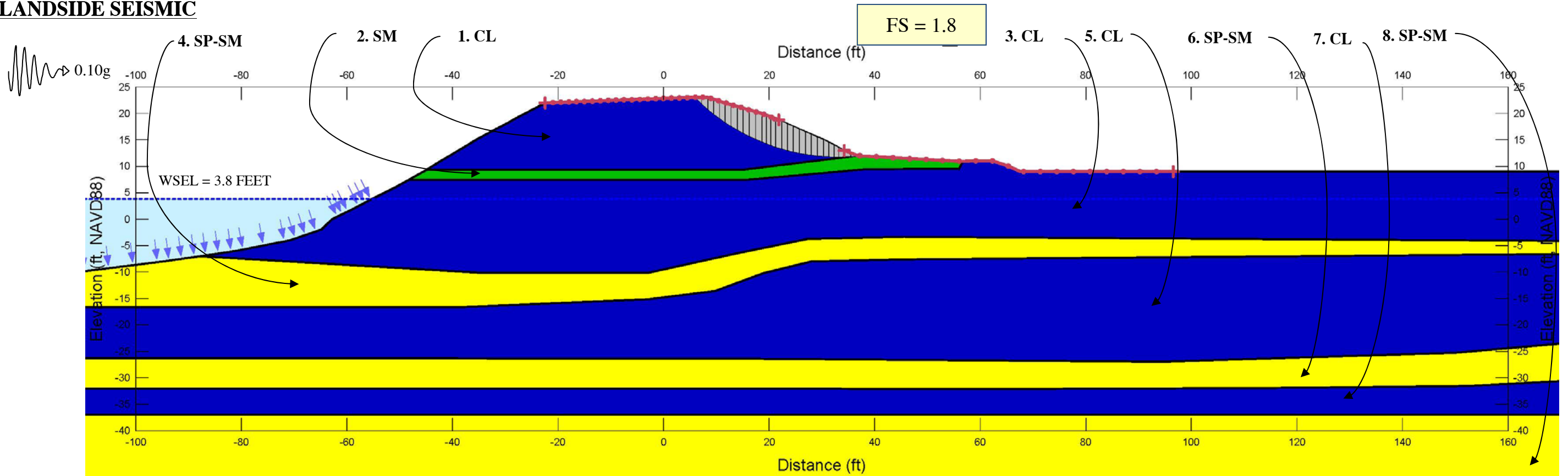
FIGURE NO.  
E-11-E

COPYRIGHT © 2014 BY ENGEO INCORPORATED. THIS DOCUMENT MAY NOT BE REPRODUCED IN WHOLE OR IN PART BY ANY MEANS WHATSOEVER, NOR MAY IT BE QUOTED OR EXCERPTED WITHOUT THE EXPRESS WRITTEN CONSENT OF ENGEO INCORPORATED.

### WATERSIDE SEISMIC



### LANDSIDE SEISMIC



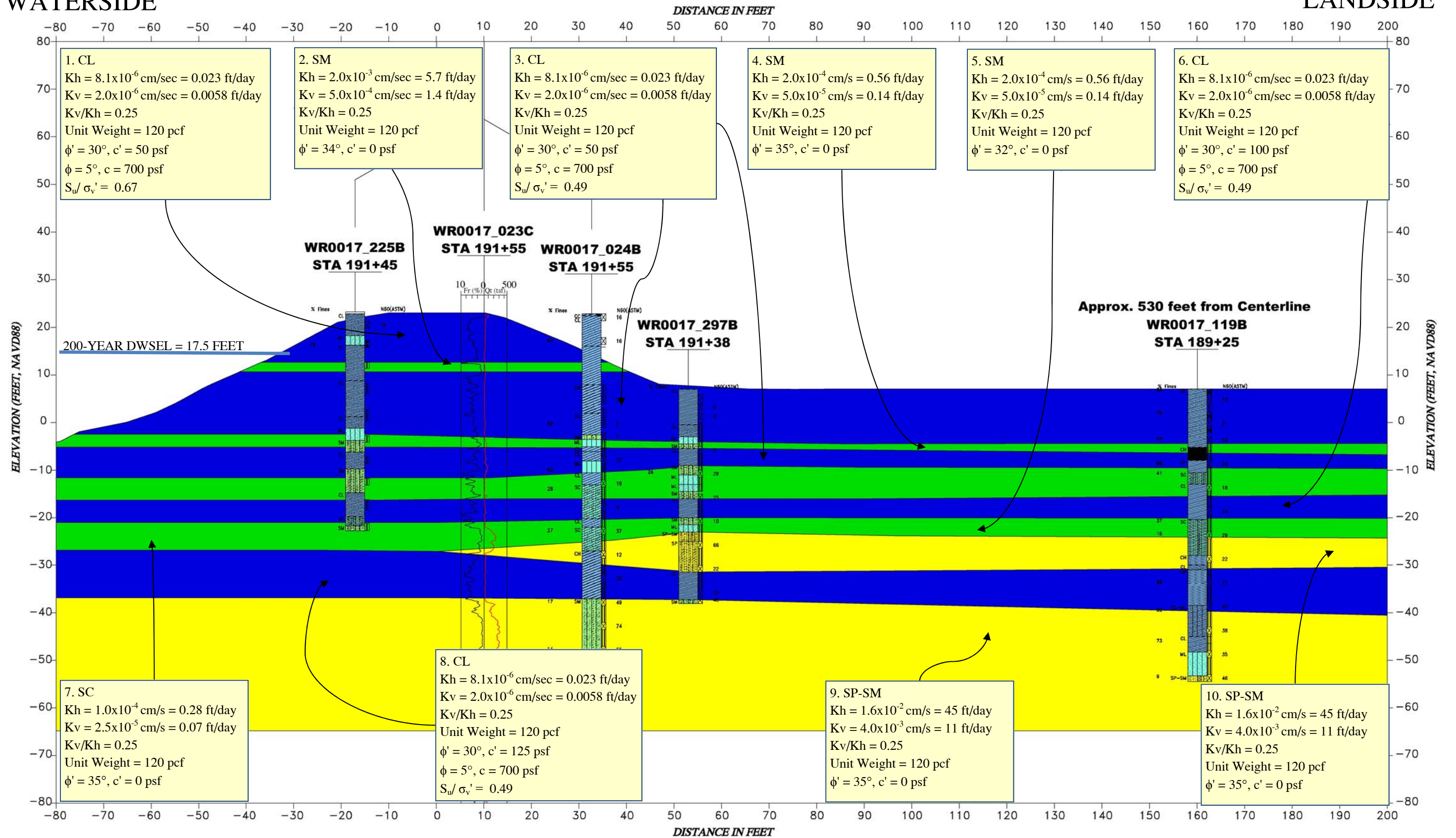
SEISMIC SLOPE STABILITY ANALYSIS  
 REACH C4B - STA 181+00  
 RECLAMATION DISTRICT NO. 17  
 SAN JOAQUIN COUNTY, CALIFORNIA

PROJECT NO.: 5747.005.000	
SCALE:	NO SCALE
DRAWN BY:	MH
CHECKED BY:	NS

FIGURE NO.  
**E-11-F**

# WATERSIDE

# LANDSIDE



COPYRIGHT © 2014 BY ENGEEO INCORPORATED. THIS DOCUMENT MAY NOT BE REPRODUCED IN WHOLE OR IN PART BY ANY MEANS WHATSOEVER, NOR MAY IT BE QUOTED OR EXCERPTED WITHOUT THE EXPRESS WRITTEN CONSENT OF ENGEEO INCORPORATED.



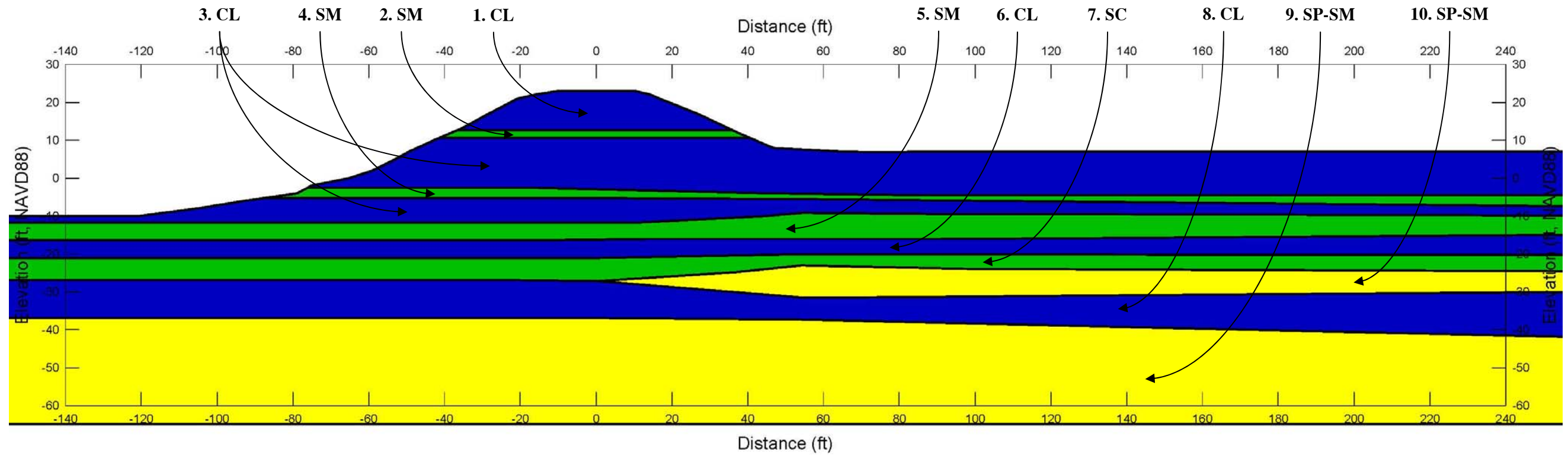
CROSS SECTION & MATERIAL PARAMETERS  
 REACH C4B - STA 191+45  
 RECLAMATION DISTRICT NO. 17  
 SAN JOAQUIN COUNTY, CALIFORNIA

PROJECT NO.: 5747.005.000  
 SCALE: NO SCALE  
 DRAWN BY: ZH CHECKED BY: NS

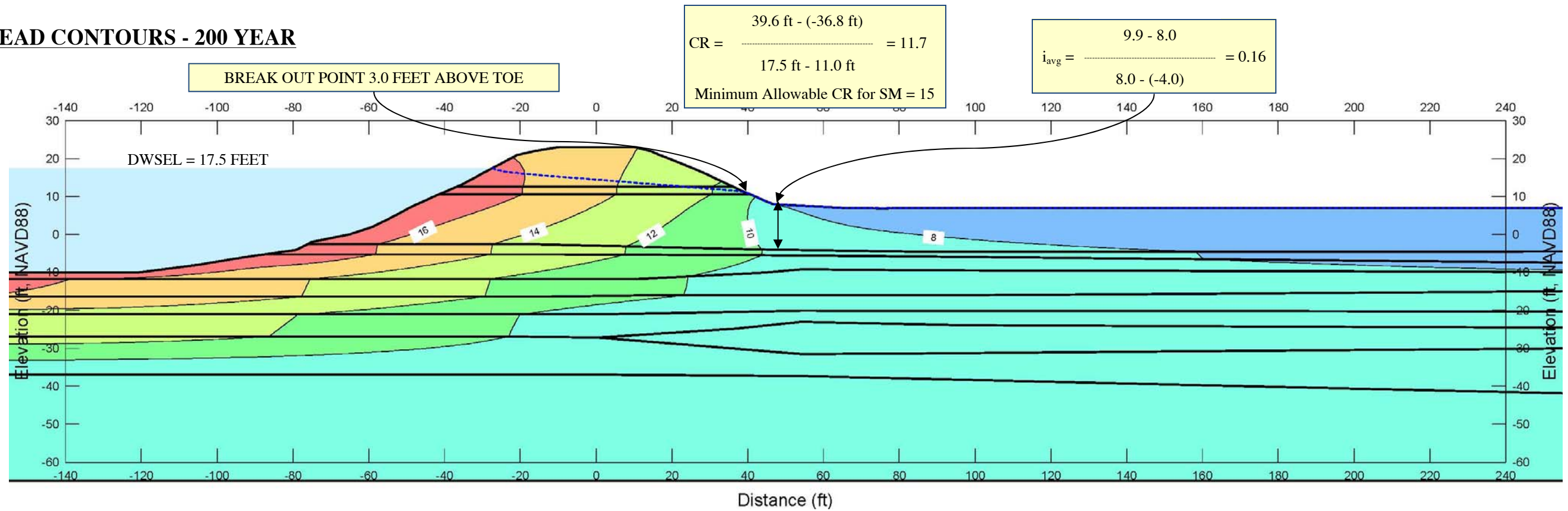
FIGURE NO.  
**E-12-A**

COPYRIGHT © 2014 BY ENGEO INCORPORATED. THIS DOCUMENT MAY NOT BE REPRODUCED IN WHOLE OR IN PART BY ANY MEANS WHATSOEVER, NOR MAY IT BE QUOTED OR EXCERPTED WITHOUT THE EXPRESS WRITTEN CONSENT OF ENGEO INCORPORATED.

### GEOMETRY OF MODEL

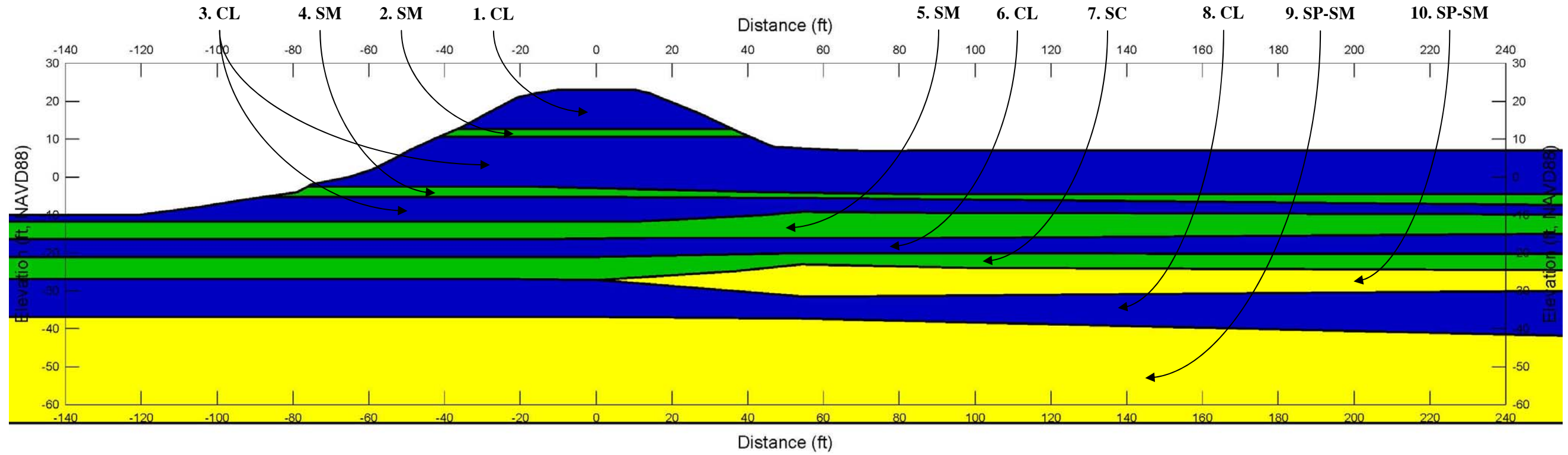


### TOTAL HEAD CONTOURS - 200 YEAR

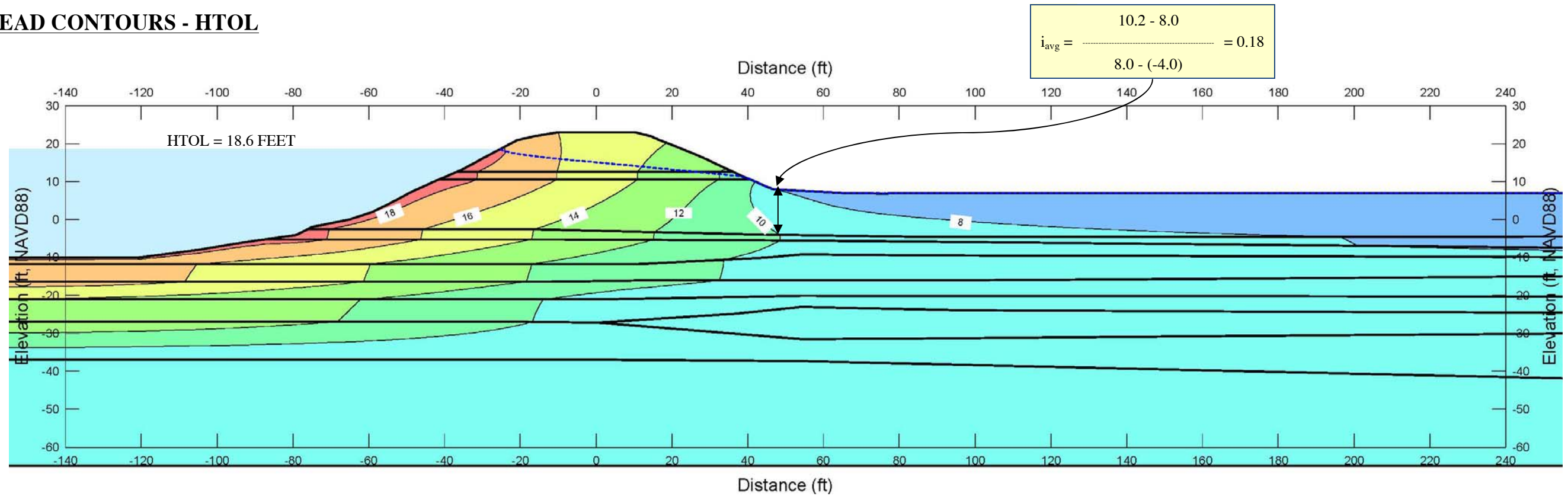


COPYRIGHT © 2014 BY ENGEO INCORPORATED. THIS DOCUMENT MAY NOT BE REPRODUCED IN WHOLE OR IN PART BY ANY MEANS WHATSOEVER, NOR MAY IT BE QUOTED OR EXCERPTED WITHOUT THE EXPRESS WRITTEN CONSENT OF ENGEO INCORPORATED.

### GEOMETRY OF MODEL



### TOTAL HEAD CONTOURS - HTOL



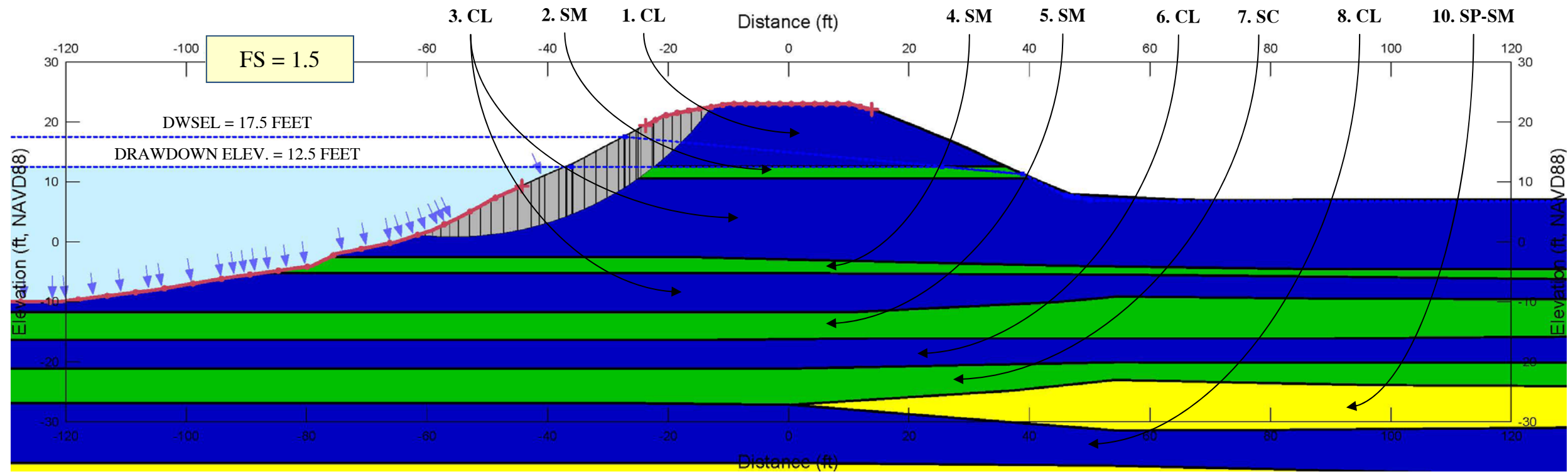
SEEPAGE ANALYSIS  
REACH C4B - STA 191+45  
RECLAMATION DISTRICT NO. 17  
SAN JOAQUIN COUNTY, CALIFORNIA

PROJECT NO.: 5747.005.000	
SCALE: NO SCALE	
DRAWN BY: AL	CHECKED BY: NS

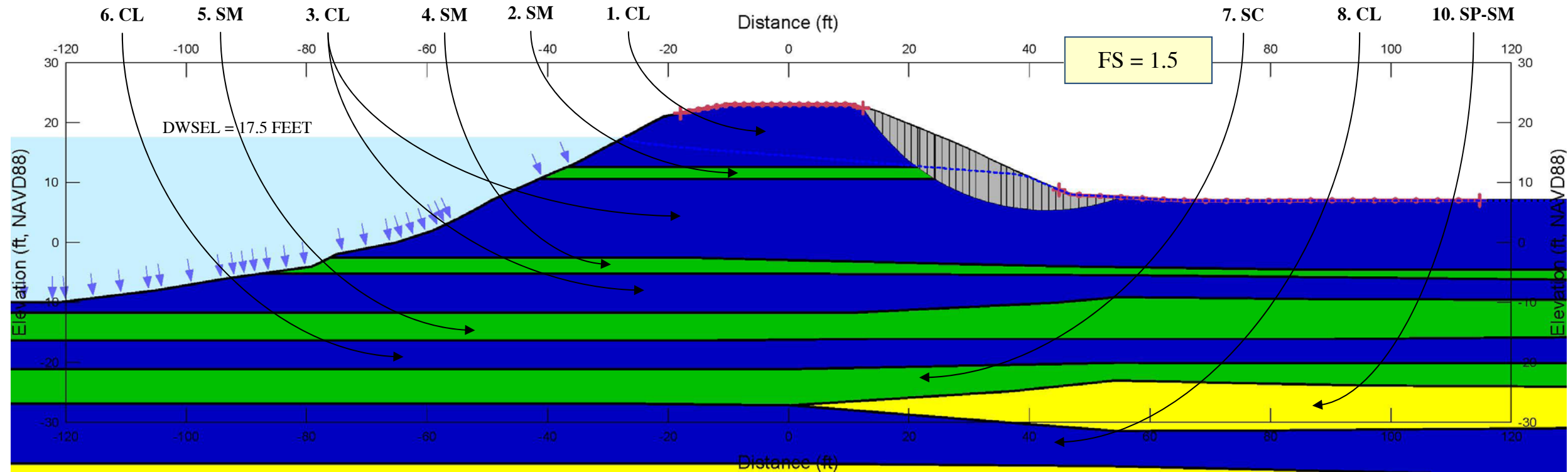
FIGURE NO.  
**E-12-C**



**WATERSIDE RAPID DRAWDOWN**



**LANDSIDE STEADY STATE SEEPAGE - 200 YEAR**



COPYRIGHT © 2014 BY ENGEO INCORPORATED. THIS DOCUMENT MAY NOT BE REPRODUCED IN WHOLE OR IN PART BY ANY MEANS WHATSOEVER, NOR MAY IT BE QUOTED OR EXCERPTED WITHOUT THE EXPRESS WRITTEN CONSENT OF ENGEO INCORPORATED.



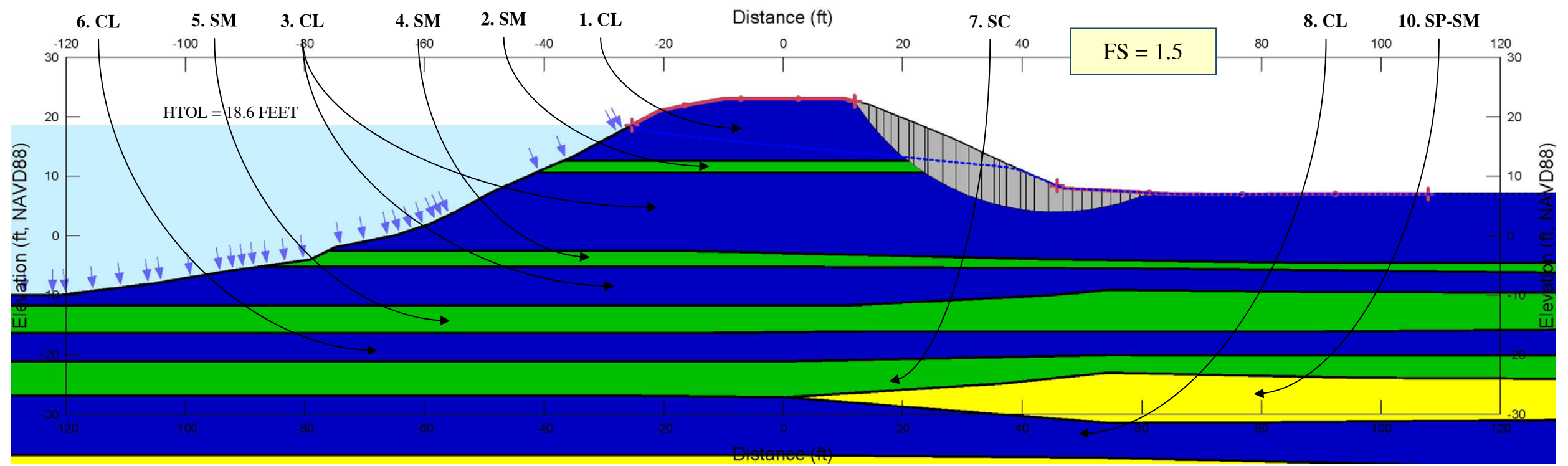
STATIC SLOPE STABILITY ANALYSIS  
 REACH C4B - STA 191+45  
 RECLAMATION DISTRICT NO. 17  
 SAN JOAQUIN COUNTY, CALIFORNIA

PROJECT NO.: 5747.005.000	
SCALE: NO SCALE	
DRAWN BY: AL	CHECKED BY: NS

FIGURE NO.  
**E-12-D**

COPYRIGHT © 2014 BY ENGEO INCORPORATED. THIS DOCUMENT MAY NOT BE REPRODUCED IN WHOLE OR IN PART BY ANY MEANS WHATSOEVER, NOR MAY IT BE QUOTED OR EXCERPTED WITHOUT THE EXPRESS WRITTEN CONSENT OF ENGEO INCORPORATED.

### LANDSIDE STEADY STATE SEEPAGE - HTOL



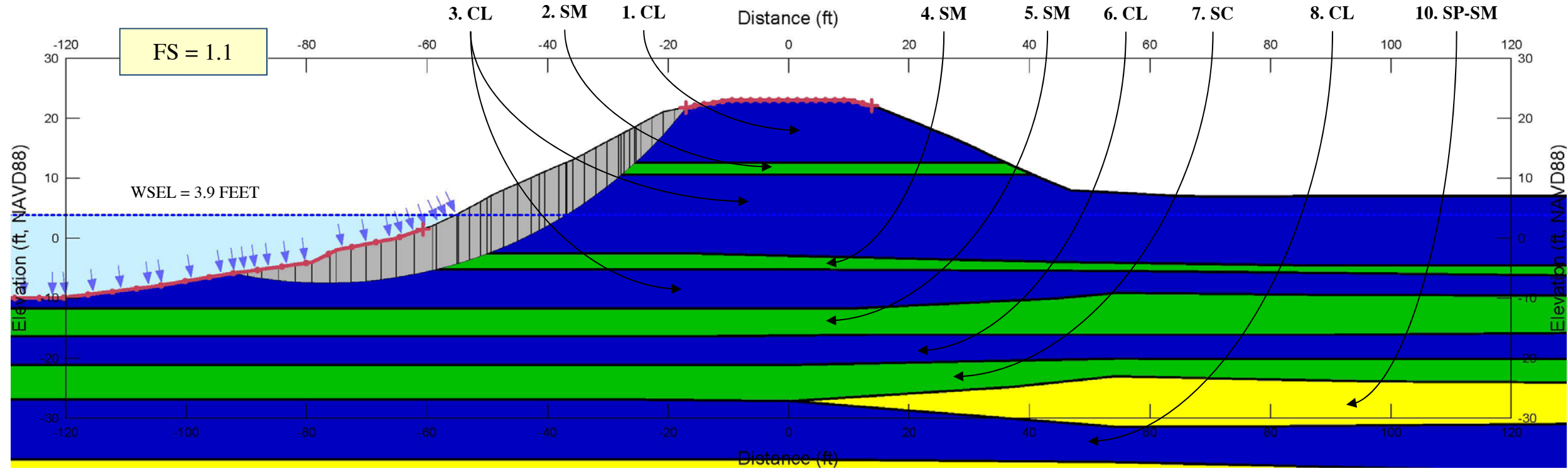
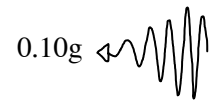
STATIC SLOPE STABILITY ANALYSIS  
 REACH C4B - STA 191+45  
 RECLAMATION DISTRICT NO. 17  
 SAN JOAQUIN COUNTY, CALIFORNIA

PROJECT NO.: 5747.005.000	
SCALE: NO SCALE	
DRAWN BY: AL	CHECKED BY: NS

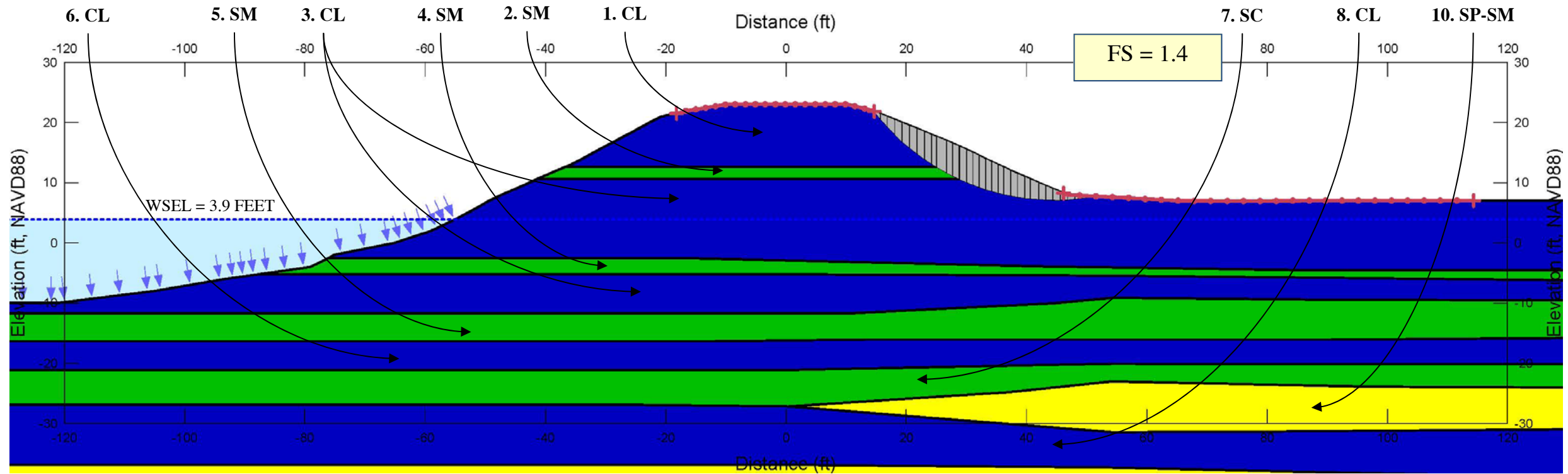
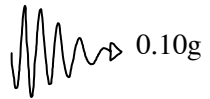
FIGURE NO.  
**E-12-E**

COPYRIGHT © 2014 BY ENGEO INCORPORATED. THIS DOCUMENT MAY NOT BE REPRODUCED IN WHOLE OR IN PART BY ANY MEANS WHATSOEVER, NOR MAY IT BE QUOTED OR EXCERPTED WITHOUT THE EXPRESS WRITTEN CONSENT OF ENGEO INCORPORATED.

### WATERSIDE SEISMIC



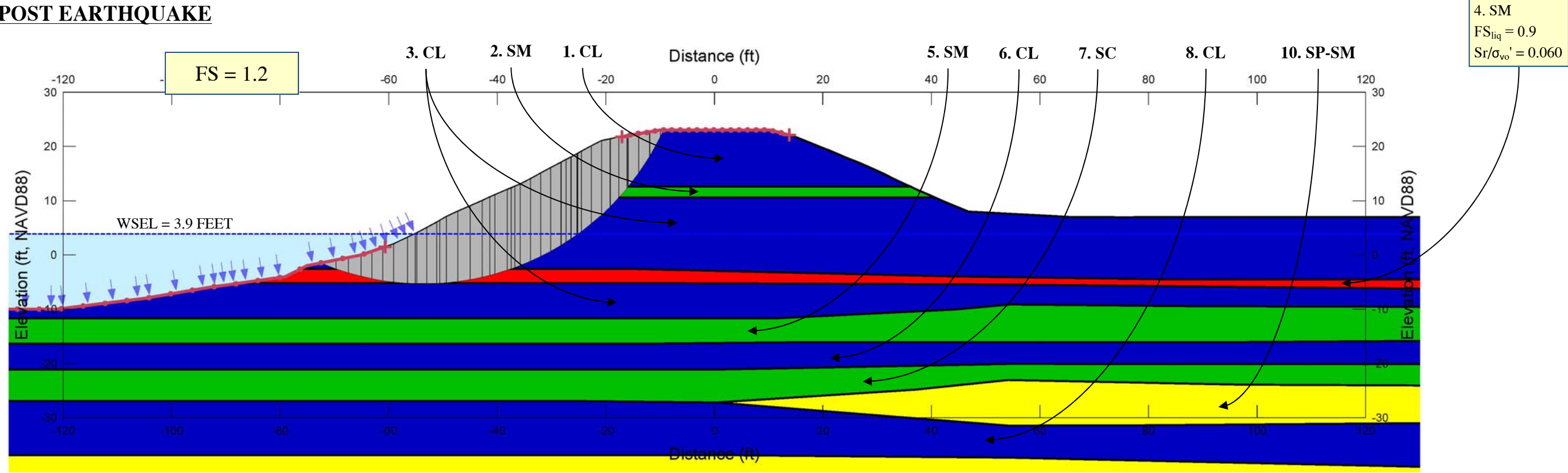
### LANDSIDE SEISMIC



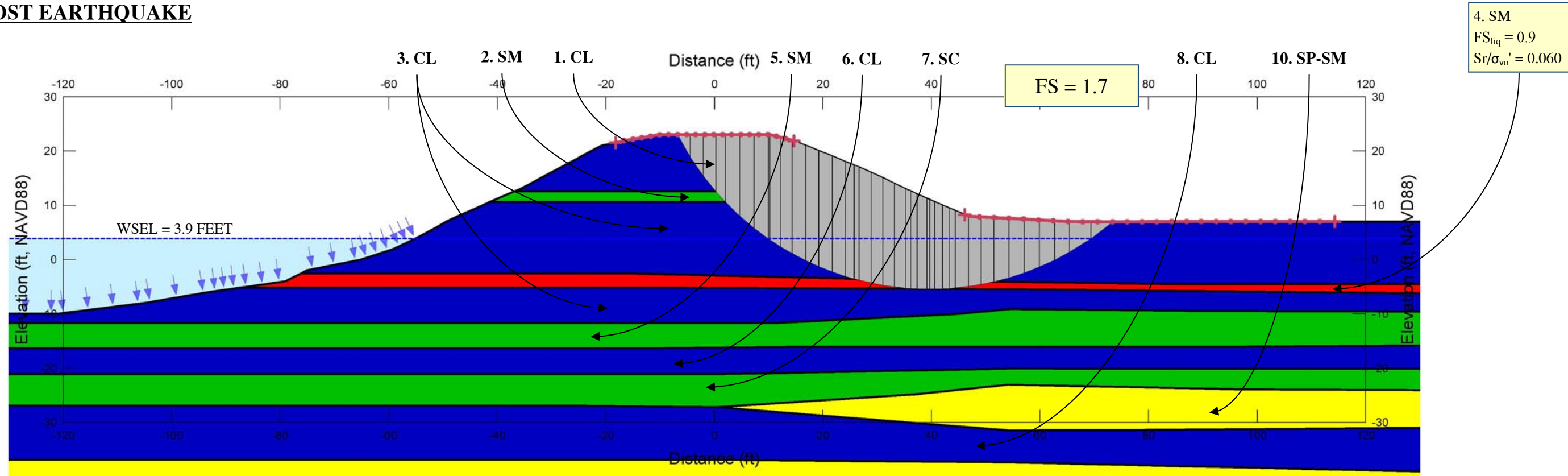
	SEISMIC SLOPE STABILITY ANALYSIS REACH C4B - STA 191+45 RECLAMATION DISTRICT NO. 17 SAN JOAQUIN COUNTY, CALIFORNIA		PROJECT NO.: 5747.005.000	FIGURE NO. <b>E-12-F</b>
			SCALE: NO SCALE	
			DRAWN BY: AL	CHECKED BY: NS


COPYRIGHT © 2014 BY ENGEO INCORPORATED. THIS DOCUMENT MAY NOT BE REPRODUCED IN WHOLE OR IN PART BY ANY MEANS WHATSOEVER WITHOUT THE EXPRESS WRITTEN CONSENT OF ENGEO INCORPORATED.

### WATERSIDE POST EARTHQUAKE



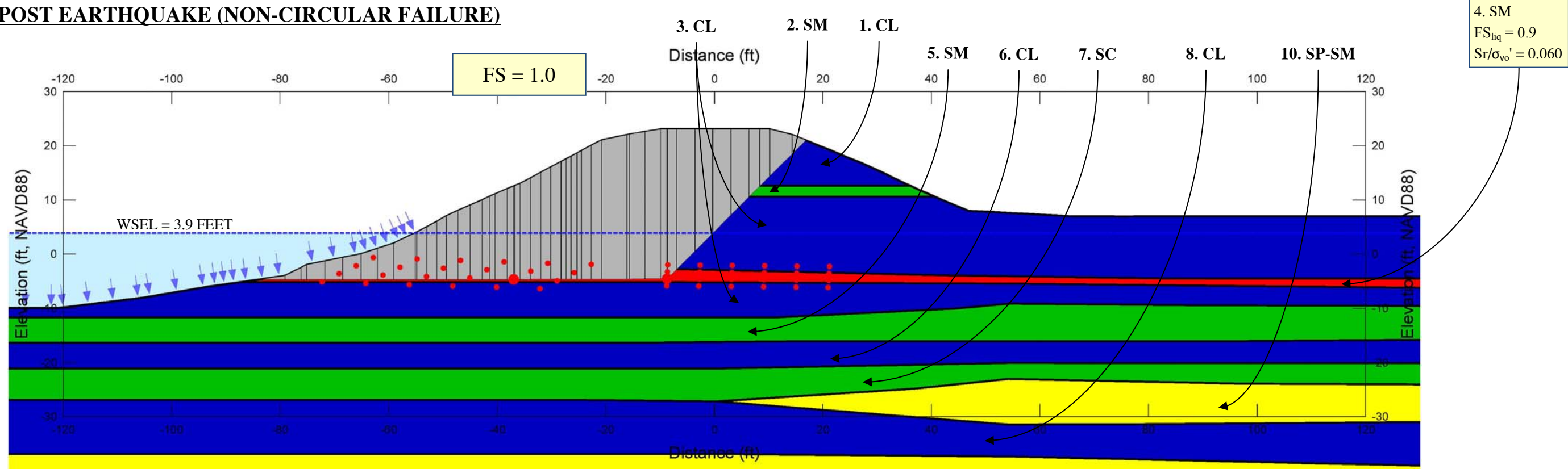
### LANDSIDE POST EARTHQUAKE



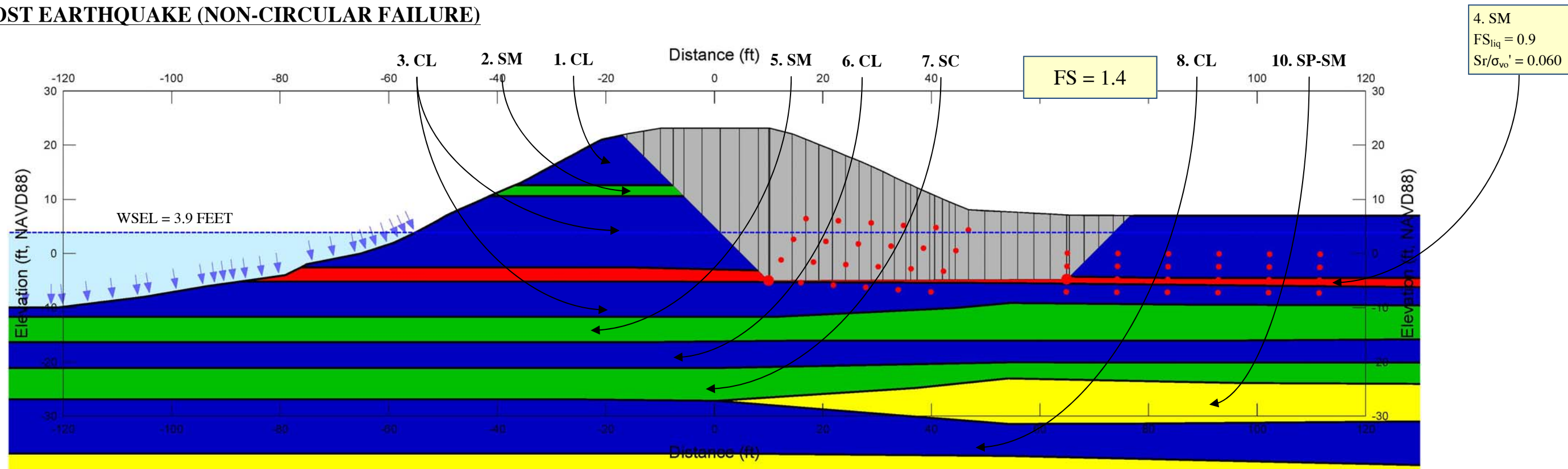
 Expect Excellence	<b>SEISMIC SLOPE STABILITY ANALYSIS</b> REACH C4B - STA 191+45 RECLAMATION DISTRICT NO. 17 SAN JOAQUIN COUNTY, CALIFORNIA		PROJECT NO.: 5747.005.000	FIGURE NO. <b>E-12-G</b>
			SCALE: NO SCALE	
	DRAWN BY: BA	CHECKED BY: CC		


COPYRIGHT © 2014 BY ENGEO INCORPORATED. THIS DOCUMENT MAY NOT BE REPRODUCED IN WHOLE OR IN PART BY ANY MEANS WHATSOEVER, NOR MAY IT BE QUOTED OR EXCERPTED WITHOUT THE EXPRESS WRITTEN CONSENT OF ENGEO INCORPORATED.

### WATERSIDE POST EARTHQUAKE (NON-CIRCULAR FAILURE)



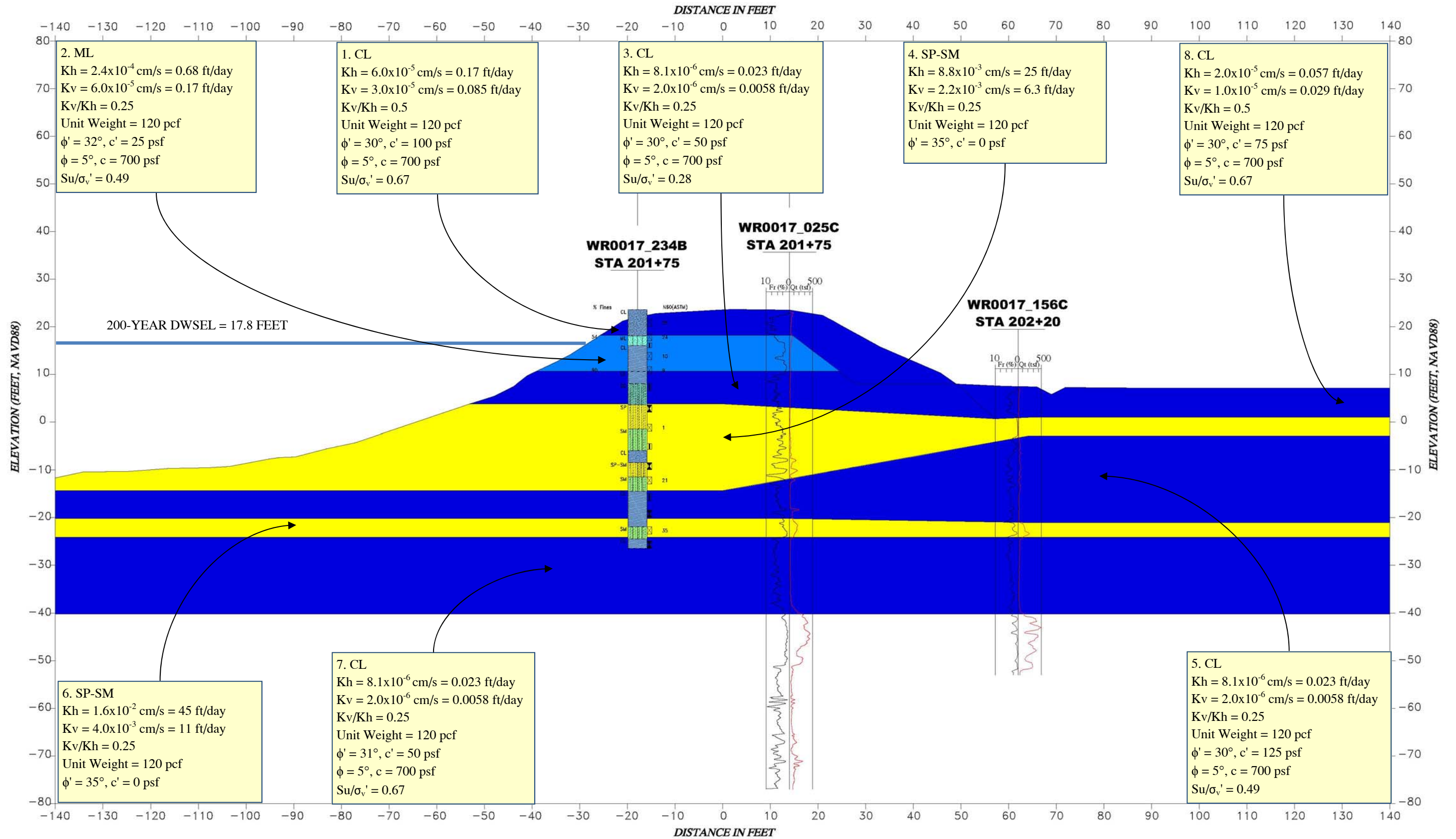
### LANDSIDE POST EARTHQUAKE (NON-CIRCULAR FAILURE)



 Expect Excellence	SEISMIC SLOPE STABILITY ANALYSIS REACH C4B - STA 191+45 RECLAMATION DISTRICT NO. 17 SAN JOAQUIN COUNTY, CALIFORNIA		PROJECT NO.: 5747.005.000	FIGURE NO.  <b>E-12-H</b>
			SCALE: NO SCALE	
			DRAWN BY: BA    CHECKED BY: CC	

# WATERSIDE

# LANDSIDE



COPYRIGHT © 2014 BY ENGEO INCORPORATED. THIS DOCUMENT MAY NOT BE REPRODUCED IN WHOLE OR IN PART BY ANY MEANS WHATSOEVER, NOR MAY IT BE QUOTED OR EXCERPTED WITHOUT THE EXPRESS WRITTEN CONSENT OF ENGEO INCORPORATED.



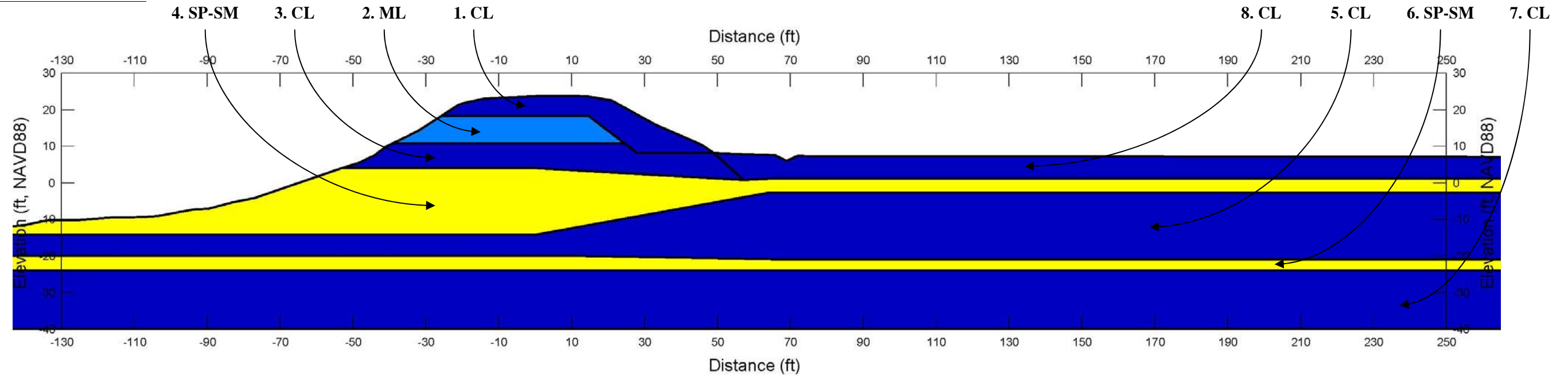
CROSS SECTION & MATERIAL PARAMETERS  
 REACH D1 - STA 201+57  
 RECLAMATION DISTRICT NO. 17  
 SAN JOAQUIN COUNTY, CALIFORNIA

PROJECT NO.: 5747.005.000	
SCALE:	NO SCALE
DRAWN BY:	ZH
CHECKED BY:	AL

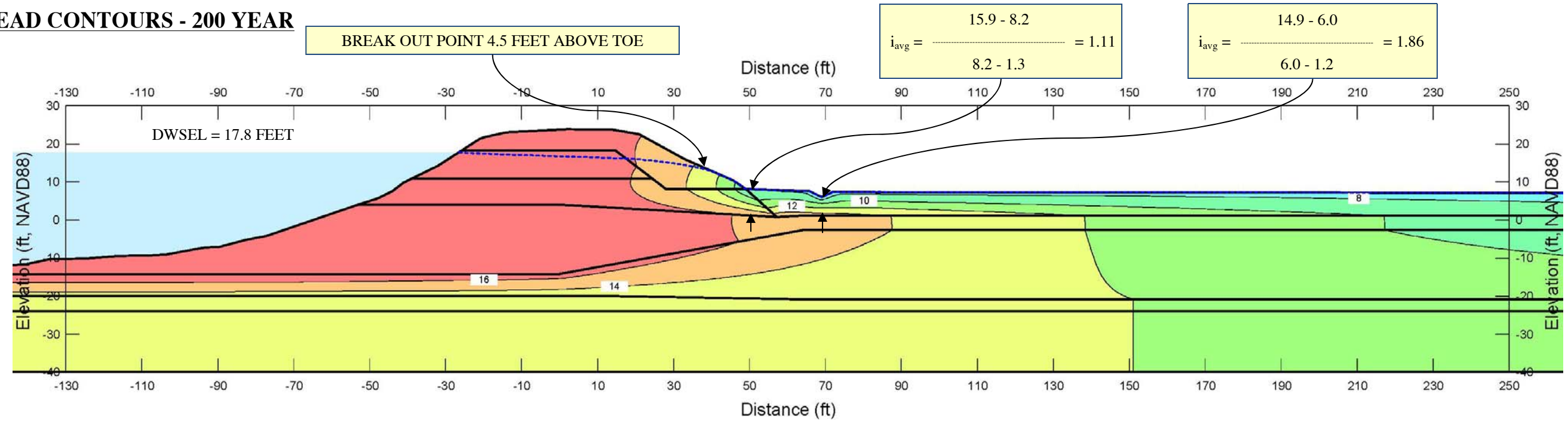
FIGURE NO.  
**E-13-A**

COPYRIGHT © 2014 BY ENGEO INCORPORATED. THIS DOCUMENT MAY NOT BE REPRODUCED IN WHOLE OR IN PART BY ANY MEANS WHATSOEVER, NOR MAY IT BE QUOTED OR EXCERPTED WITHOUT THE EXPRESS WRITTEN CONSENT OF ENGEO INCORPORATED.

### GEOMETRY OF MODEL



### TOTAL HEAD CONTOURS - 200 YEAR



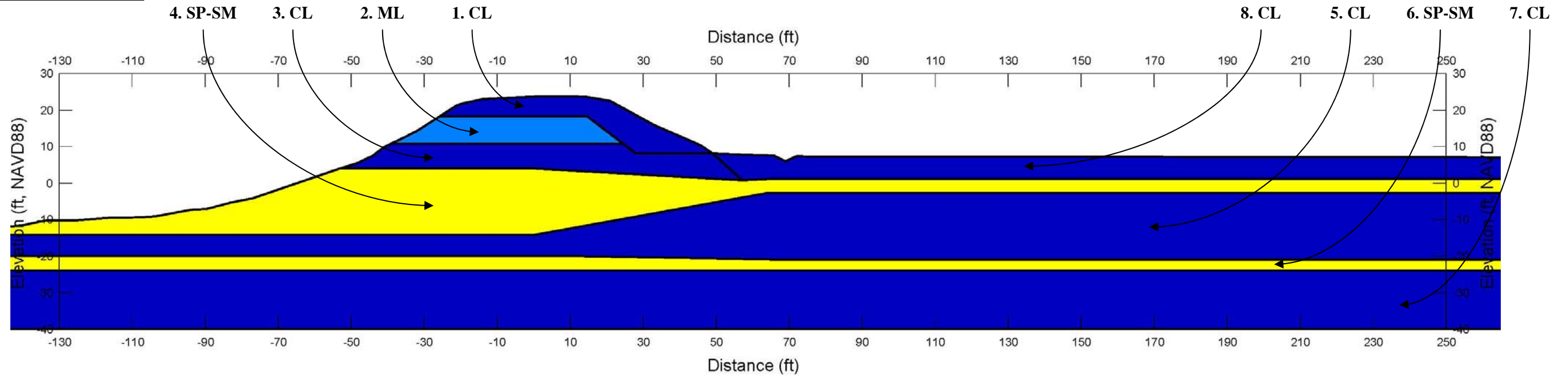
SEEPAGE ANALYSIS  
 REACH D1 - STA 201+57  
 RECLAMATION DISTRICT NO. 17  
 SAN JOAQUIN COUNTY, CALIFORNIA

PROJECT NO.: 5747.005.000	
SCALE:	NO SCALE
DRAWN BY:	ZR
CHECKED BY:	NS

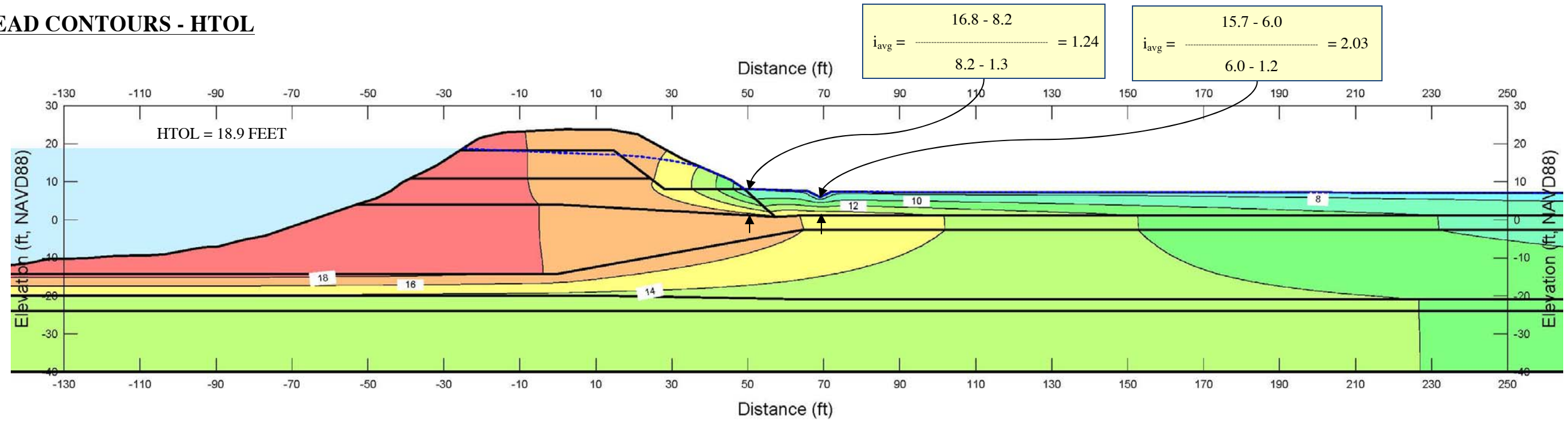
FIGURE NO.  
**E-13-B**

COPYRIGHT © 2014 BY ENGEO INCORPORATED. THIS DOCUMENT MAY NOT BE REPRODUCED IN WHOLE OR IN PART BY ANY MEANS WHATSOEVER, NOR MAY IT BE QUOTED OR EXCERPTED WITHOUT THE EXPRESS WRITTEN CONSENT OF ENGEO INCORPORATED.

### GEOMETRY OF MODEL



### TOTAL HEAD CONTOURS - HTOL



SEEPAGE ANALYSIS  
 REACH D1 - STA 201+57  
 RECLAMATION DISTRICT NO. 17  
 SAN JOAQUIN COUNTY, CALIFORNIA

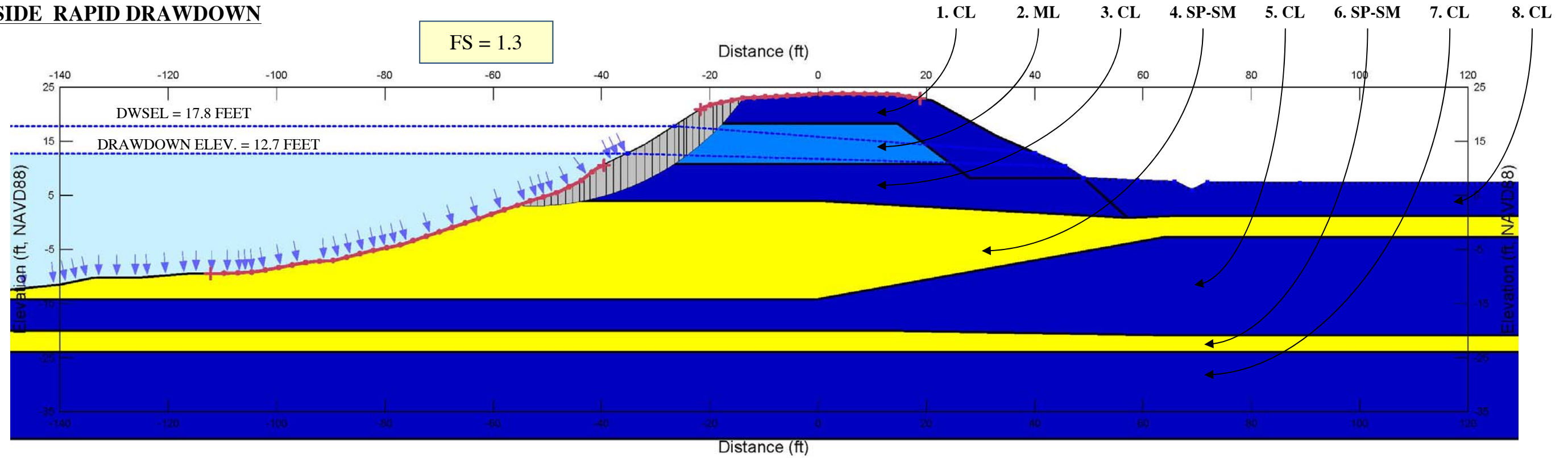
PROJECT NO.: 5747.005.000	
SCALE: NO SCALE	
DRAWN BY: ZR	CHECKED BY: NS

FIGURE NO.  
**E-13-C**

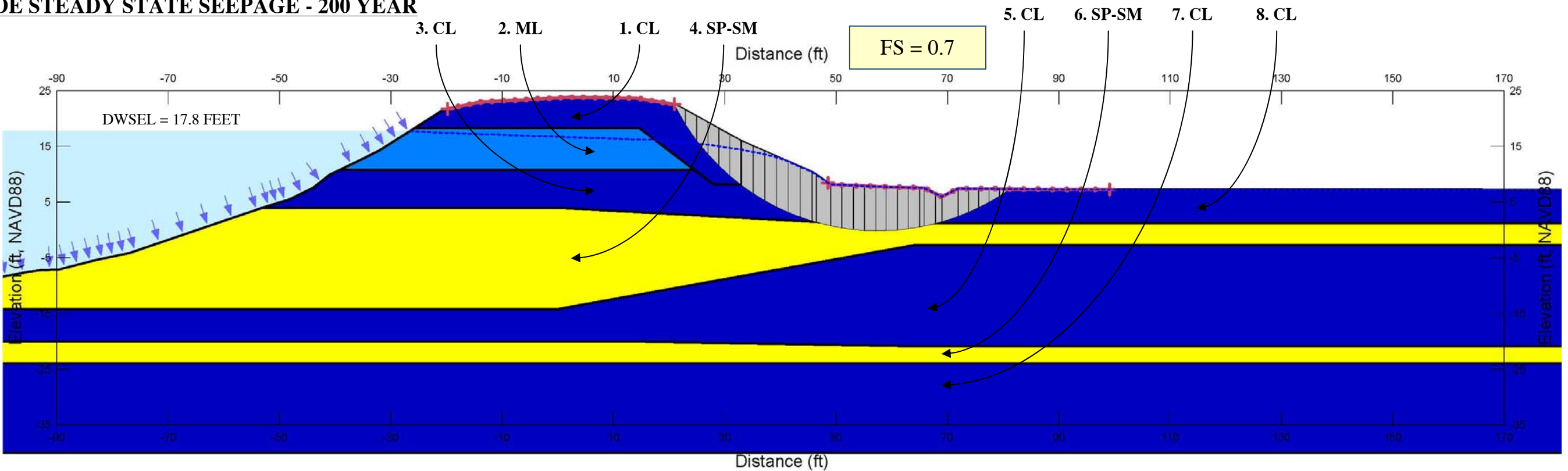


COPYRIGHT © 2014 BY ENGEO INCORPORATED. THIS DOCUMENT MAY NOT BE REPRODUCED IN WHOLE OR IN PART BY ANY MEANS WHATSOEVER, NOR MAY IT BE QUOTED OR EXCERPTED WITHOUT THE EXPRESS WRITTEN CONSENT OF ENGEO INCORPORATED.

### WATERSIDE RAPID DRAWDOWN



### LANDSIDE STEADY STATE SEEPAGE - 200 YEAR



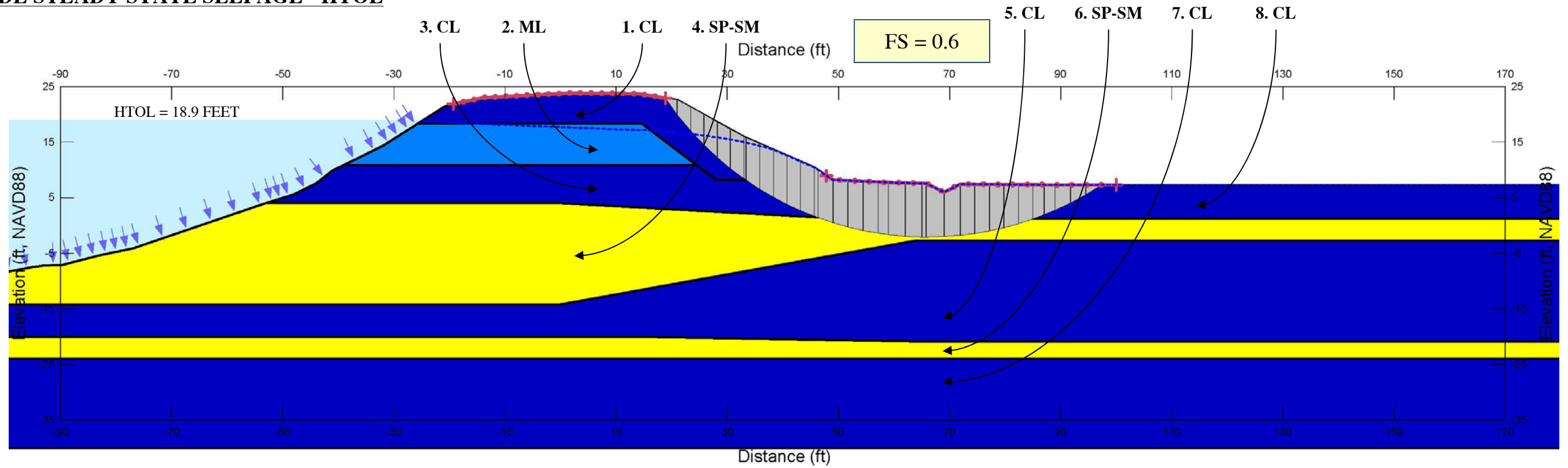
STATIC SLOPE STABILITY ANALYSIS  
 REACH D1 - STA 201+57  
 RECLAMATION DISTRICT NO. 17  
 SAN JOAQUIN COUNTY, CALIFORNIA

PROJECT NO.: 5747.005.000	
SCALE:	NO SCALE
DRAWN BY:	ZR
CHECKED BY:	NS

FIGURE NO.  
**E-13-D**

COPYRIGHT © 2014 BY ENGEO INCORPORATED. THIS DOCUMENT MAY NOT BE REPRODUCED IN WHOLE OR IN PART BY ANY MEANS WHATSOEVER WITHOUT THE EXPRESS WRITTEN CONSENT OF ENGEO INCORPORATED.

### LANDSIDE STEADY STATE SEEPAGE - HTOL



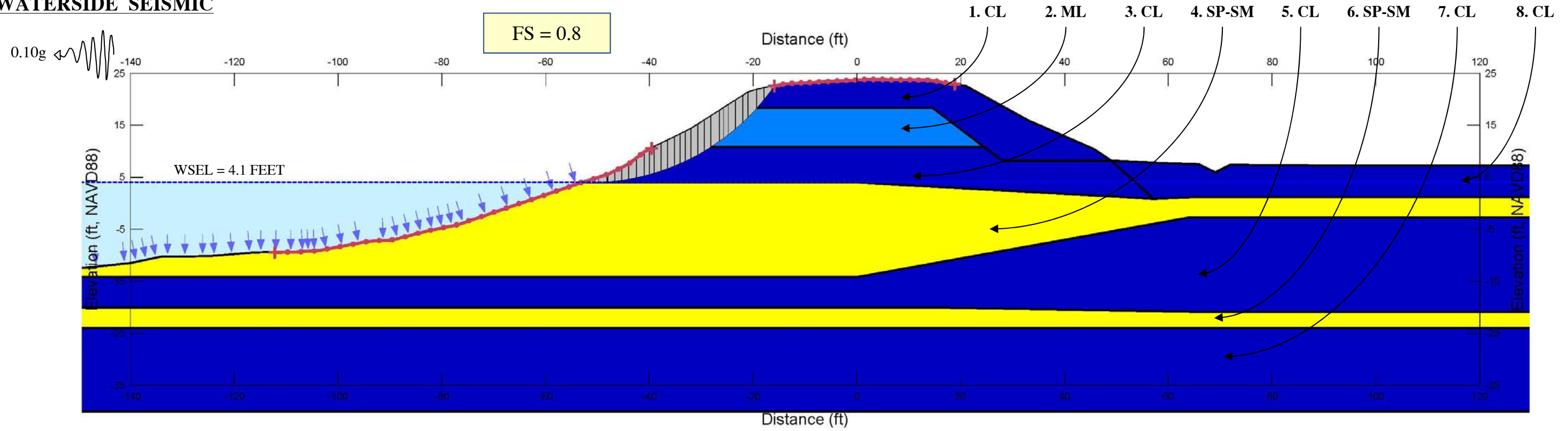
STATIC SLOPE STABILITY ANALYSIS  
 REACH D1 - STA 201+57  
 RECLAMATION DISTRICT NO. 17  
 SAN JOAQUIN COUNTY, CALIFORNIA

PROJECT NO.: 5747.005.000	
SCALE: NO SCALE	
DRAWN BY: ZR	CHECKED BY: NS

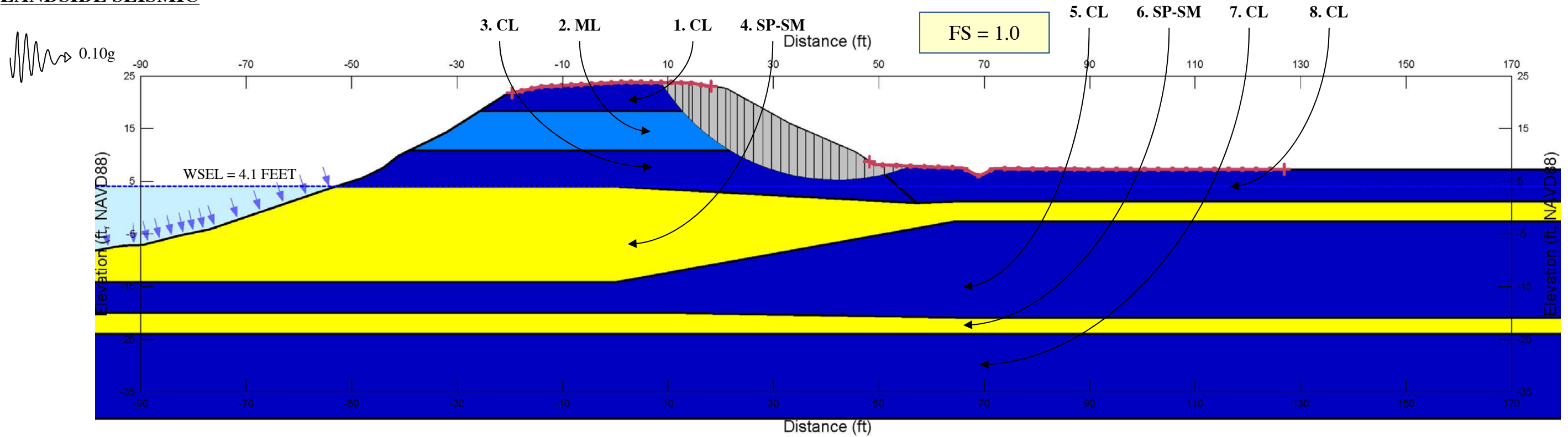
FIGURE NO.  
**E-13-E**

COPYRIGHT © 2014 BY ENGEO INCORPORATED. THIS DOCUMENT MAY NOT BE REPRODUCED IN WHOLE OR IN PART BY ANY MEANS WHATSOEVER, NOR MAY IT BE QUOTED OR EXCERPTED WITHOUT THE EXPRESS WRITTEN CONSENT OF ENGEO INCORPORATED.

### WATERSIDE SEISMIC



### LANDSIDE SEISMIC



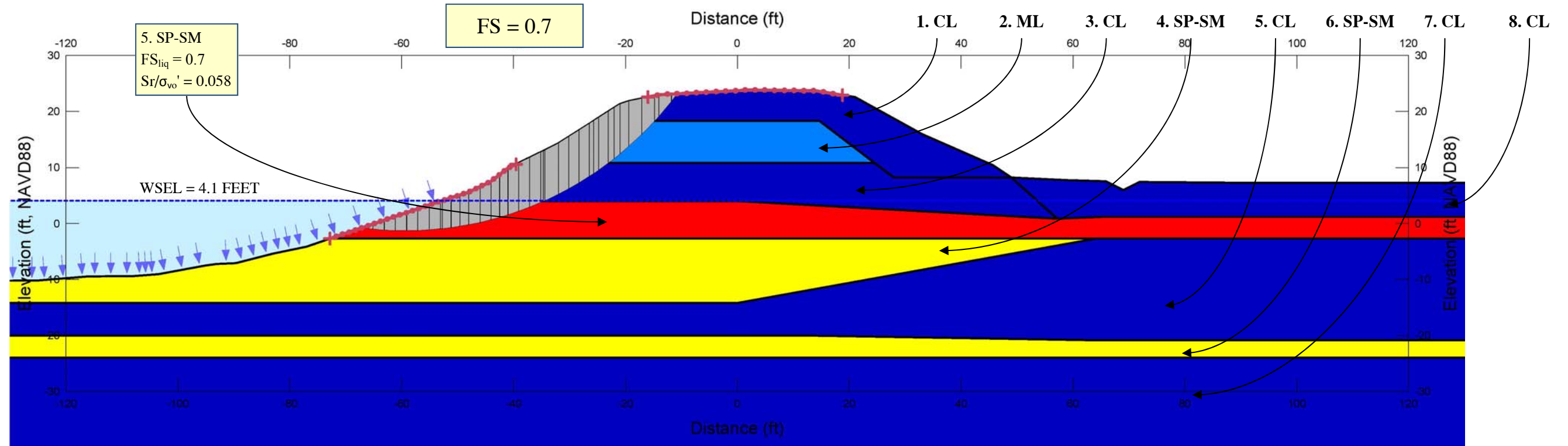
SEISMIC SLOPE STABILITY ANALYSIS  
 REACH D1 - STA 201+57  
 RECLAMATION DISTRICT NO. 17  
 SAN JOAQUIN COUNTY, CALIFORNIA

PROJECT NO.: 5747.005.000	
SCALE: NO SCALE	
DRAWN BY: ZR	CHECKED BY: NS

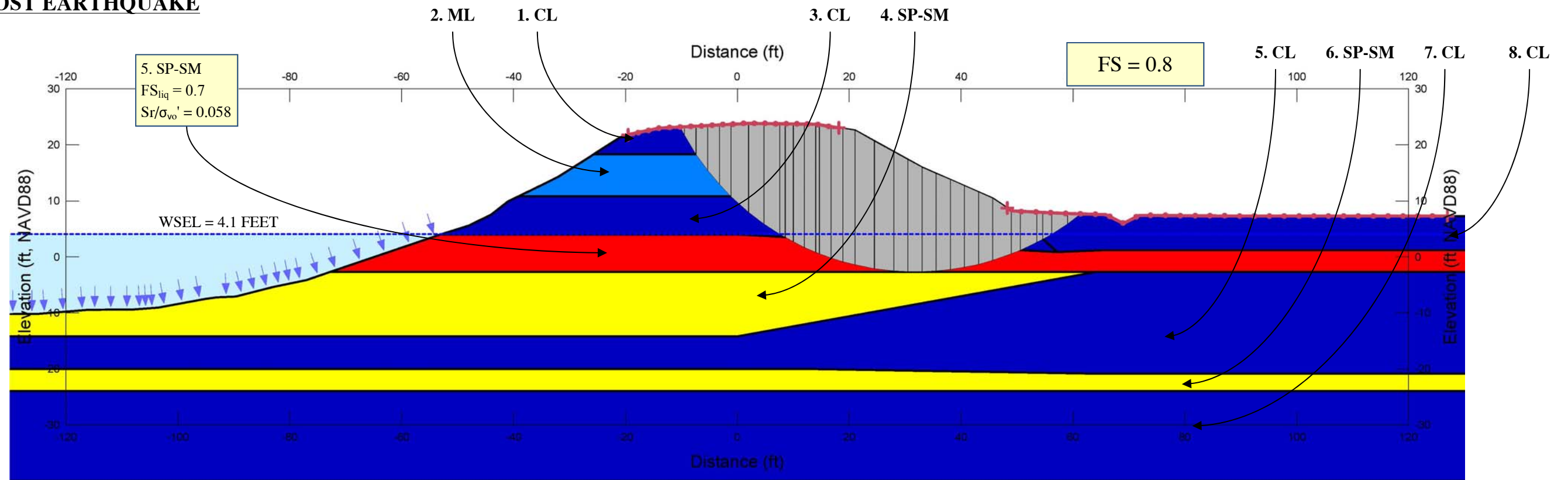
FIGURE NO.  
**E-13-F**

COPYRIGHT © 2014 BY ENGEO INCORPORATED. THIS DOCUMENT MAY NOT BE REPRODUCED IN WHOLE OR IN PART BY ANY MEANS WHATSOEVER, NOR MAY IT BE QUOTED OR EXCERPTED WITHOUT THE EXPRESS WRITTEN CONSENT OF ENGEO INCORPORATED.

### WATERSIDE POST EARTHQUAKE



### LANDSIDE POST EARTHQUAKE

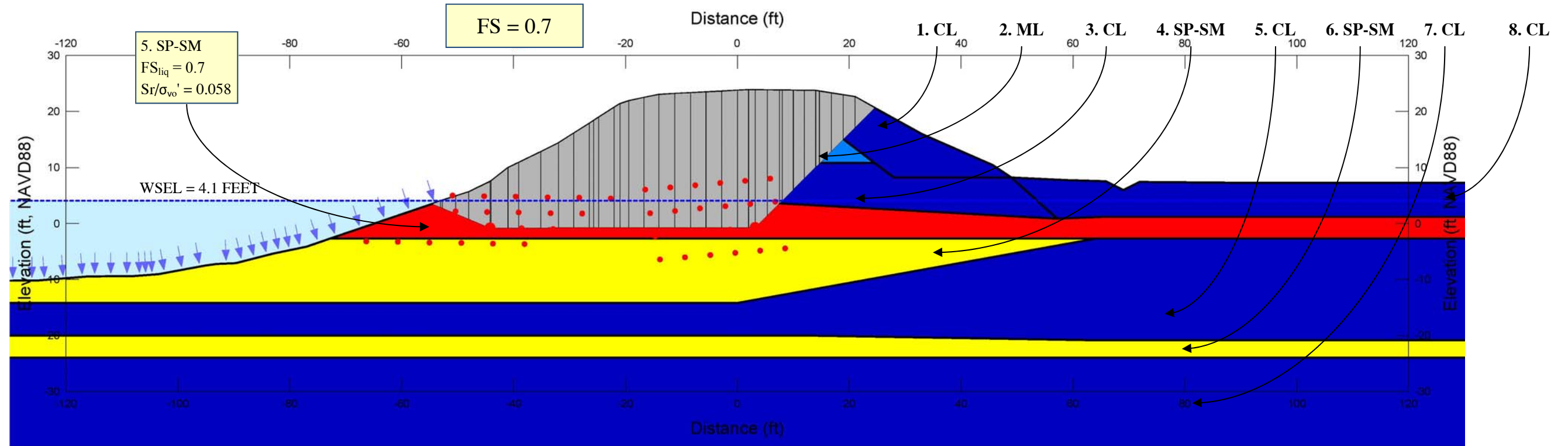


SEISMIC SLOPE STABILITY ANALYSIS  
REACH D1 - STA 201+57  
RECLAMATION DISTRICT NO. 17  
SAN JOAQUIN COUNTY, CALIFORNIA

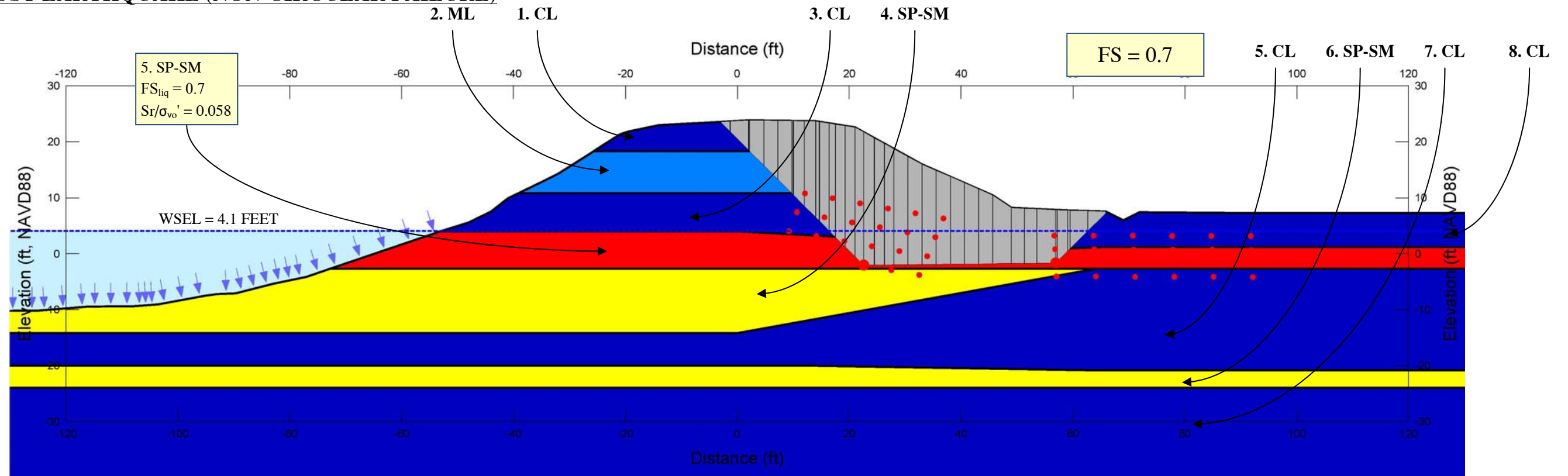
PROJECT NO.: 5747.005.000	FIGURE NO.
SCALE: NO SCALE	E-13-G
DRAWN BY: BA	

COPYRIGHT © 2014 BY ENGEO INCORPORATED. THIS DOCUMENT MAY NOT BE REPRODUCED IN WHOLE OR IN PART BY ANY MEANS WHATSOEVER, NOR MAY IT BE QUOTED OR EXCERPTED WITHOUT THE EXPRESS WRITTEN CONSENT OF ENGEO INCORPORATED.

### WATERSIDE POST EARTHQUAKE (NON-CIRCULAR FAILURE)



### LANDSIDE POST EARTHQUAKE (NON-CIRCULAR FAILURE)



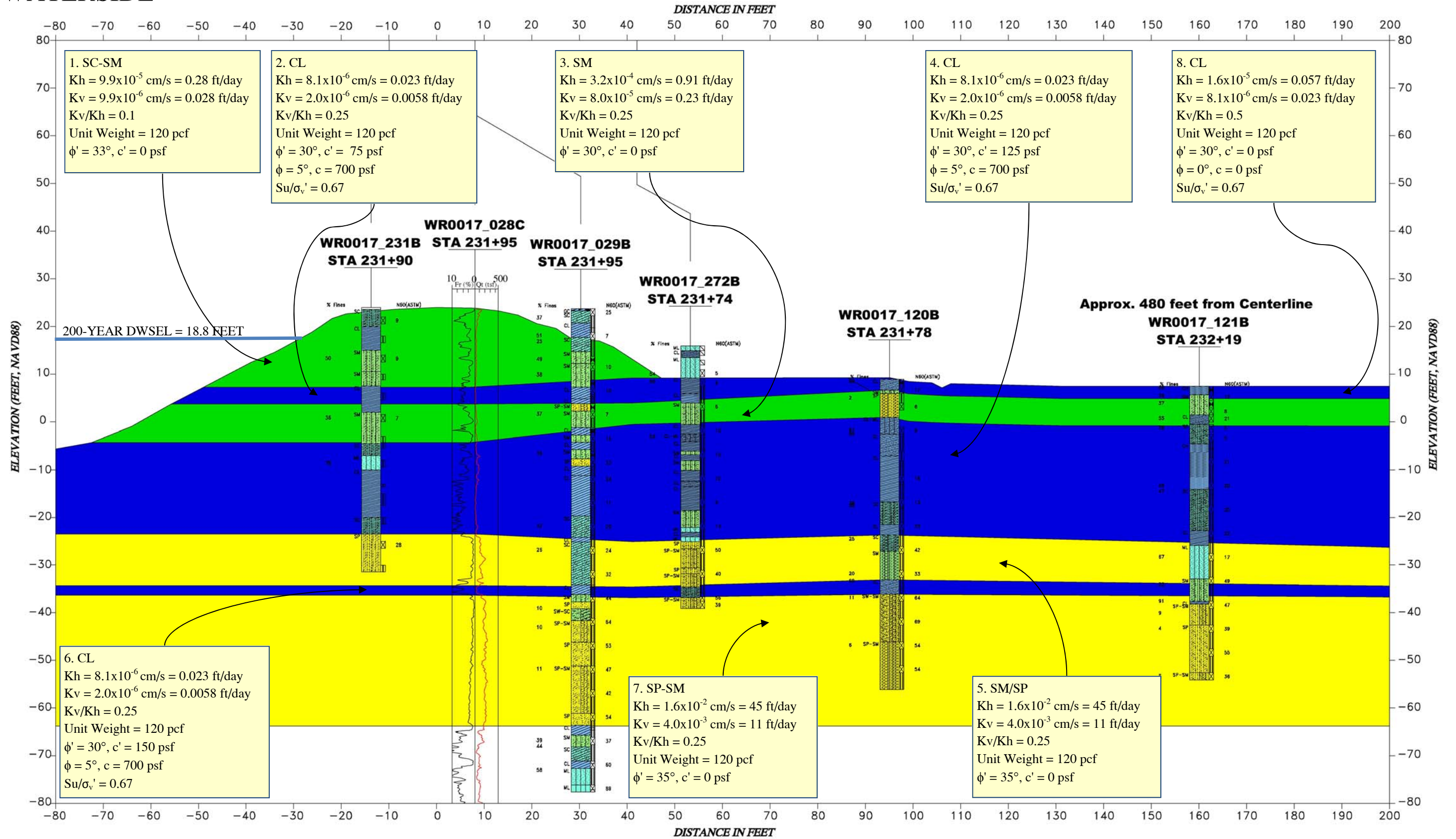
SEISMIC SLOPE STABILITY ANALYSIS  
 REACH D1 - STA 201+57  
 RECLAMATION DISTRICT NO. 17  
 SAN JOAQUIN COUNTY, CALIFORNIA

PROJECT NO.: 5747.005.000	
SCALE:	NO SCALE
DRAWN BY:	BA
CHECKED BY:	CC

FIGURE NO.  
**E-13-H**

# WATERSIDE

# LANDSIDE



COPYRIGHT © 2014 BY ENGEO INCORPORATED. THIS DOCUMENT MAY NOT BE REPRODUCED IN WHOLE OR IN PART BY ANY MEANS WHATSOEVER, NOR MAY IT BE QUOTED OR EXCERPTED WITHOUT THE EXPRESS WRITTEN CONSENT OF ENGEO INCORPORATED.



CROSS SECTION & MATERIAL PARAMETERS  
 REACH D2A - STA 231+75  
 RECLAMATION DISTRICT NO. 17  
 SAN JOAQUIN COUNTY, CALIFORNIA

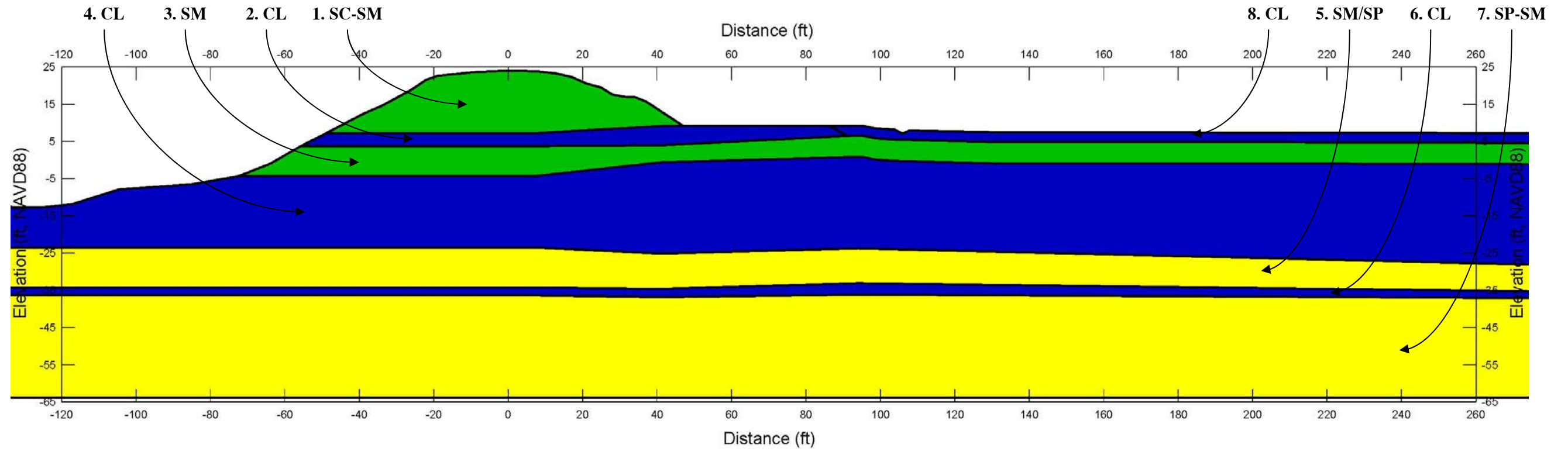
PROJECT NO.: 5747.005.000	
SCALE:	NO SCALE
DRAWN BY:	ZR
CHECKED BY:	AL

FIGURE NO.

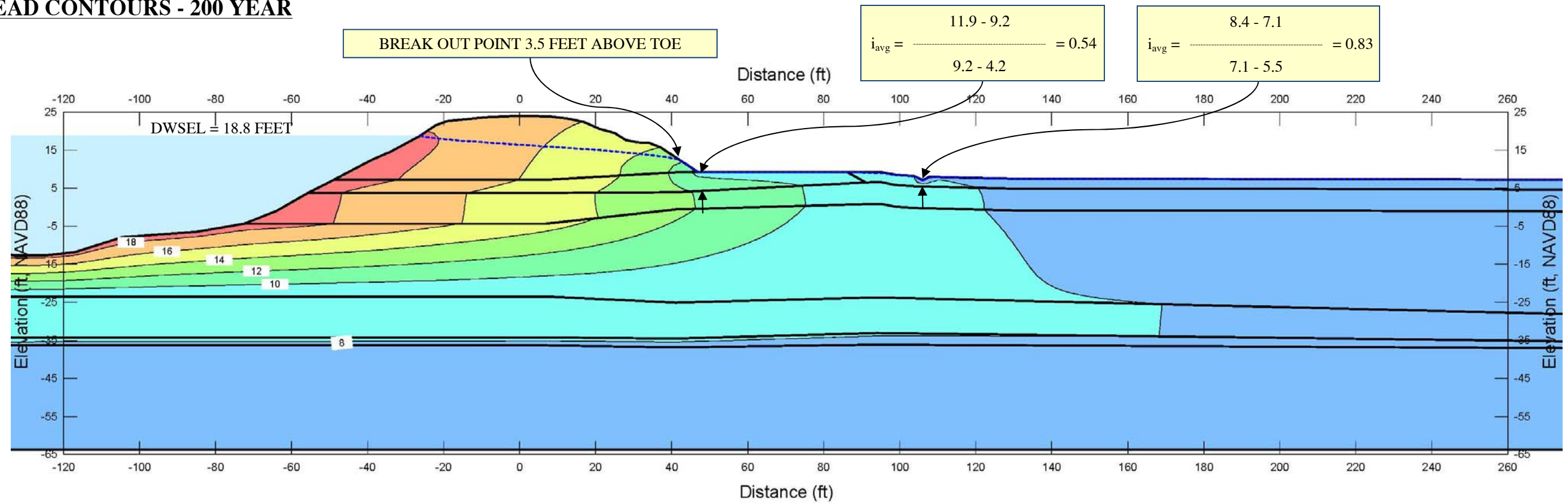
E-14-A

COPYRIGHT © 2014 BY ENGEO INCORPORATED. THIS DOCUMENT MAY NOT BE REPRODUCED IN WHOLE OR IN PART BY ANY MEANS WHATSOEVER, NOR MAY IT BE QUOTED OR EXCERPTED WITHOUT THE EXPRESS WRITTEN CONSENT OF ENGEO INCORPORATED.

### GEOMETRY OF MODEL



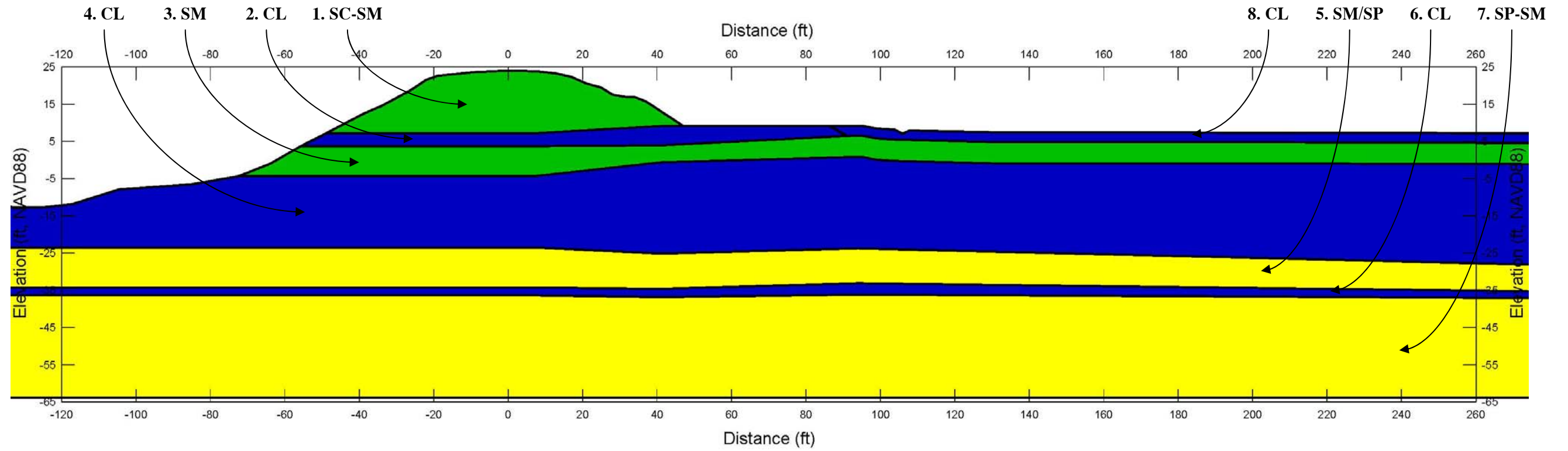
### TOTAL HEAD CONTOURS - 200 YEAR



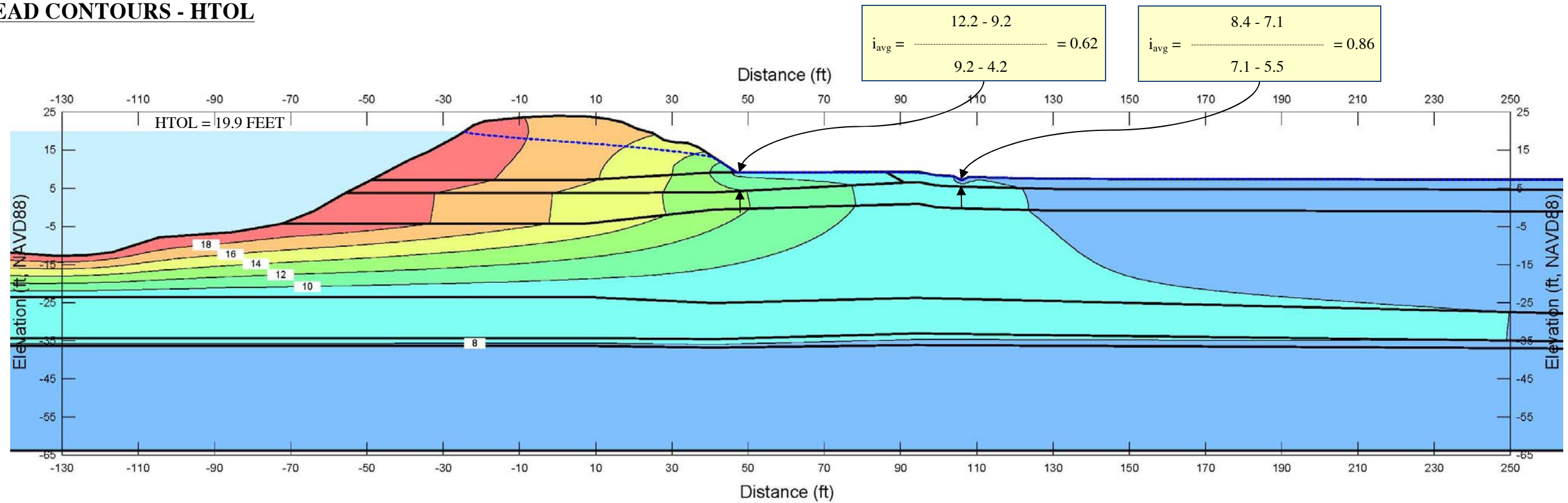
	SEEPAGE ANALYSIS REACH D2A - STA 231+75 RECLAMATION DISTRICT NO. 17 SAN JOAQUIN COUNTY, CALIFORNIA		PROJECT NO.: 5747.005.000	FIGURE NO.  <b>E-14-B</b>
			SCALE: NO SCALE	
			DRAWN BY: ZR    CHECKED BY: NS	

COPYRIGHT © 2014 BY ENGEO INCORPORATED. THIS DOCUMENT MAY NOT BE REPRODUCED IN WHOLE OR IN PART BY ANY MEANS WHATSOEVER, NOR MAY IT BE QUOTED OR EXCERPTED WITHOUT THE EXPRESS WRITTEN CONSENT OF ENGEO INCORPORATED.

### GEOMETRY OF MODEL



### TOTAL HEAD CONTOURS - HTOL



SEEPAGE ANALYSIS  
 REACH D2A - STA 231+75  
 RECLAMATION DISTRICT NO. 17  
 SAN JOAQUIN COUNTY, CALIFORNIA

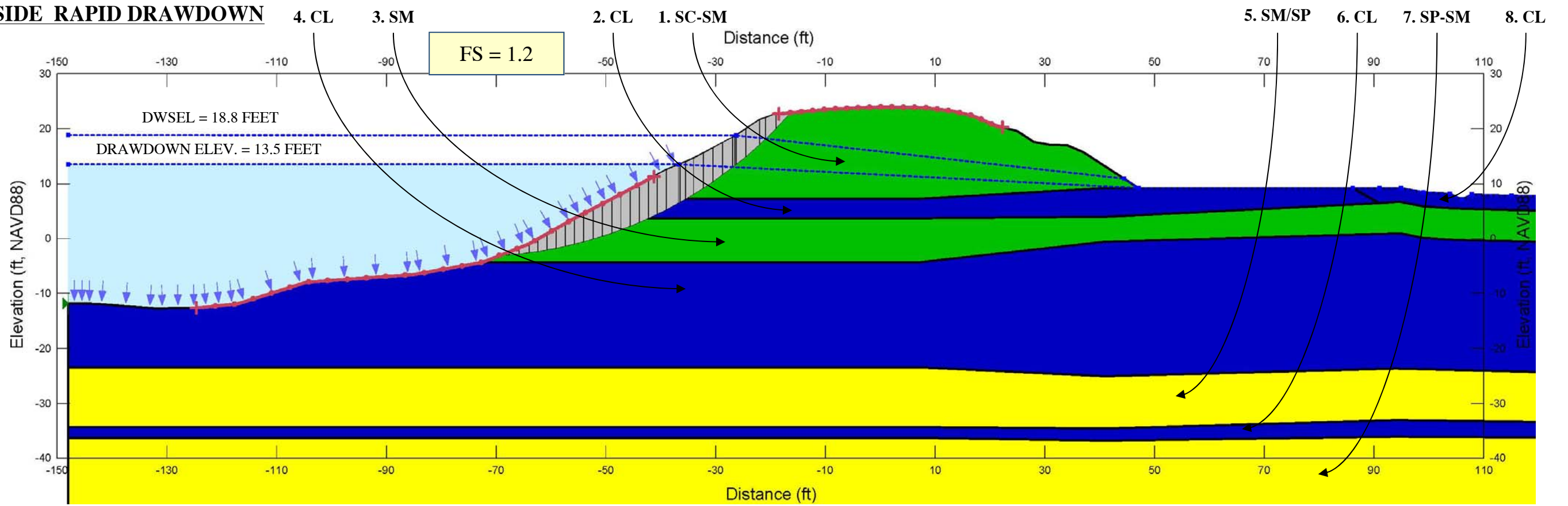
PROJECT NO.: 5747.005.000	
SCALE: NO SCALE	
DRAWN BY: ZR	CHECKED BY: NS

FIGURE NO.  
**E-14-C**

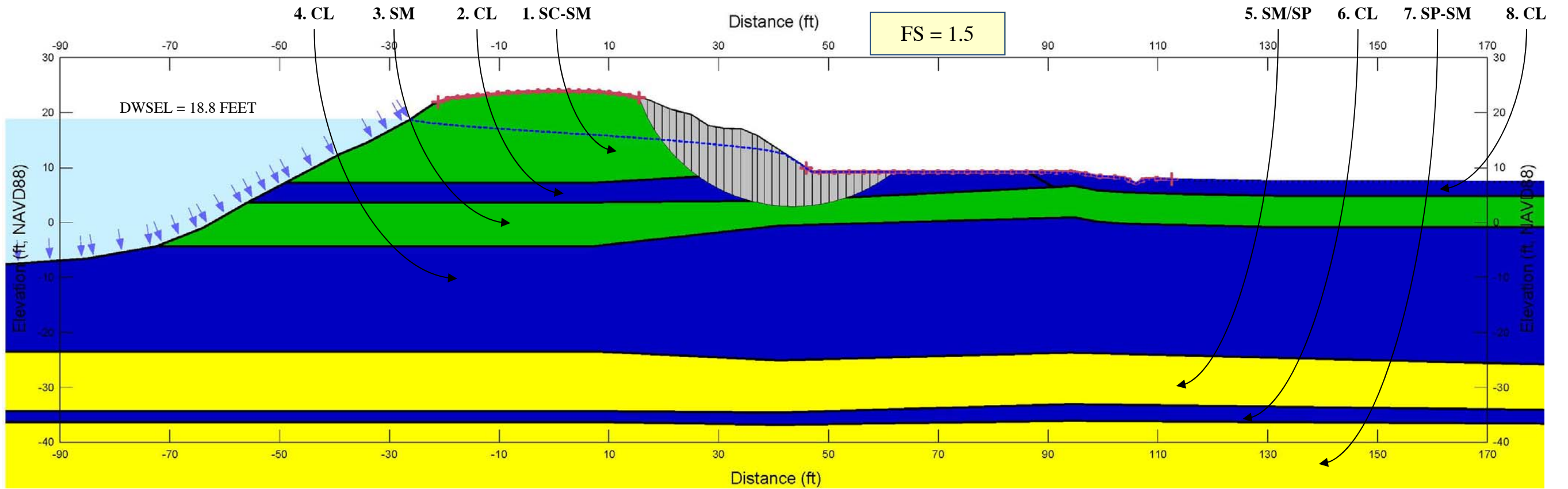


COPYRIGHT © 2014 BY ENGEO INCORPORATED. THIS DOCUMENT MAY NOT BE REPRODUCED IN WHOLE OR IN PART BY ANY MEANS WHATSOEVER, NOR MAY IT BE QUOTED OR EXCERPTED WITHOUT THE EXPRESS WRITTEN CONSENT OF ENGEO INCORPORATED.

### WATERSIDE RAPID DRAWDOWN



### LANDSIDE STEADY STATE SEEPAGE - 200 YEAR



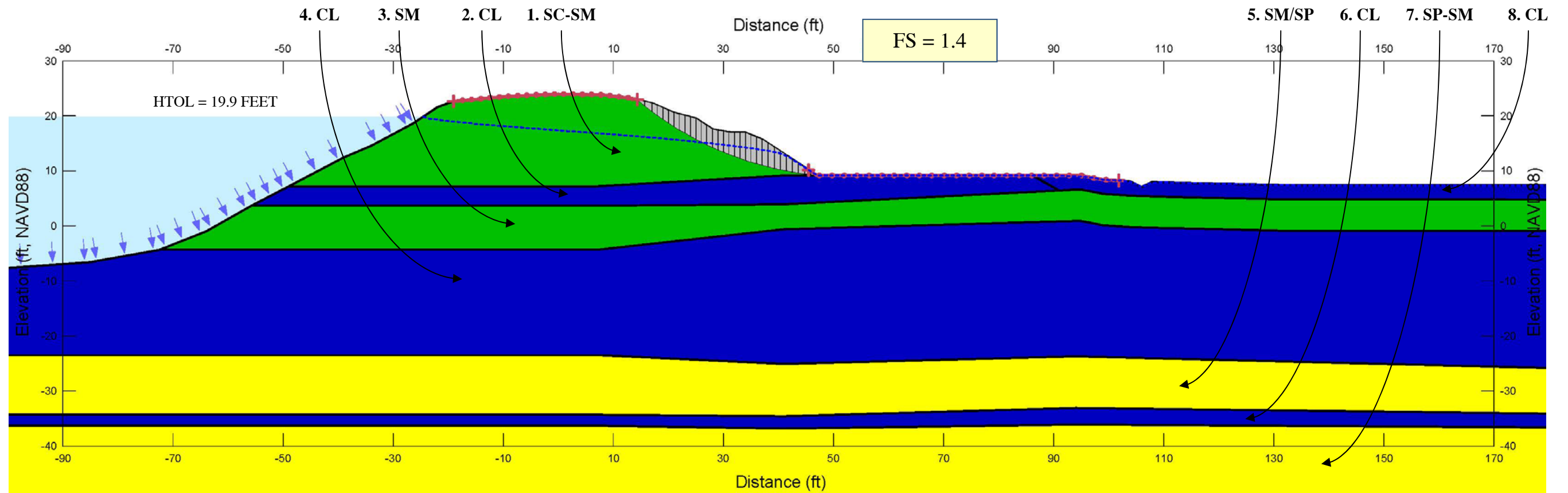
STATIC SLOPE STABILITY ANALYSIS  
 REACH D2A - STA 231+75  
 RECLAMATION DISTRICT NO. 17  
 SAN JOAQUIN COUNTY, CALIFORNIA

PROJECT NO.: 5747.005.000	
SCALE:	NO SCALE
DRAWN BY:	ZR
CHECKED BY:	NS

FIGURE NO.  
**E-14-D**

COPYRIGHT © 2014 BY ENGEO INCORPORATED. THIS DOCUMENT MAY NOT BE REPRODUCED IN WHOLE OR IN PART BY ANY MEANS WHATSOEVER WITHOUT THE EXPRESS WRITTEN CONSENT OF ENGEO INCORPORATED.

### LANDSIDE STEADY STATE SEEPAGE - HTOL



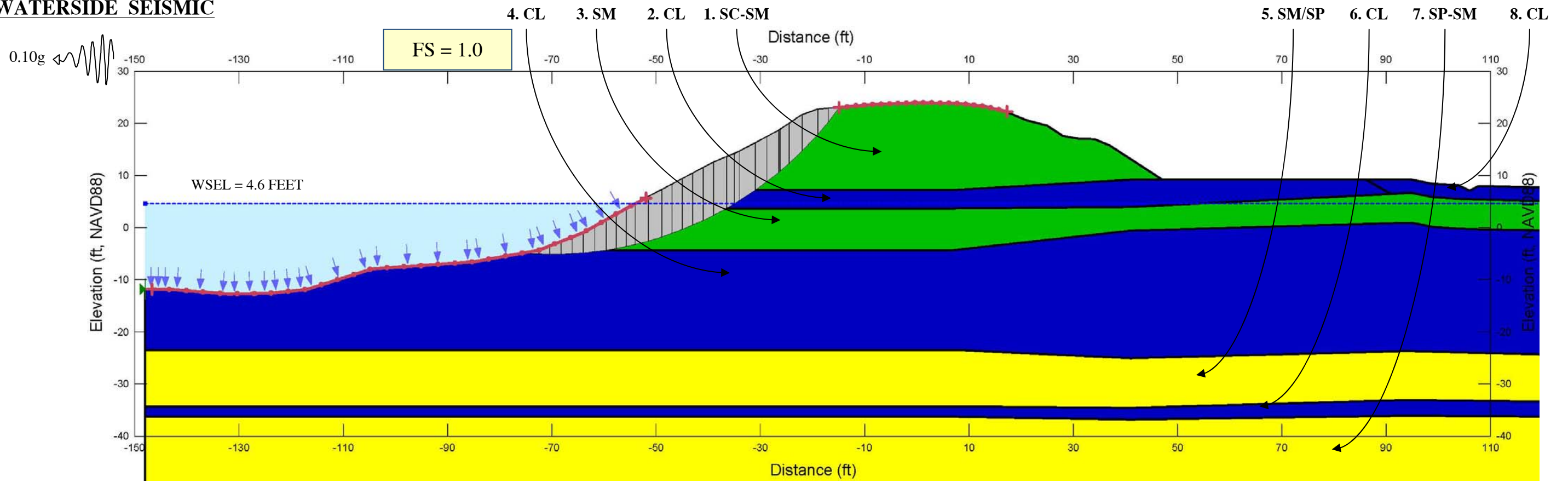
STATIC SLOPE STABILITY ANALYSIS  
 REACH D2A - STA 231+75  
 RECLAMATION DISTRICT NO. 17  
 SAN JOAQUIN COUNTY, CALIFORNIA

PROJECT NO.: 5747.005.000	
SCALE:	NO SCALE
DRAWN BY:	ZR
CHECKED BY:	NS

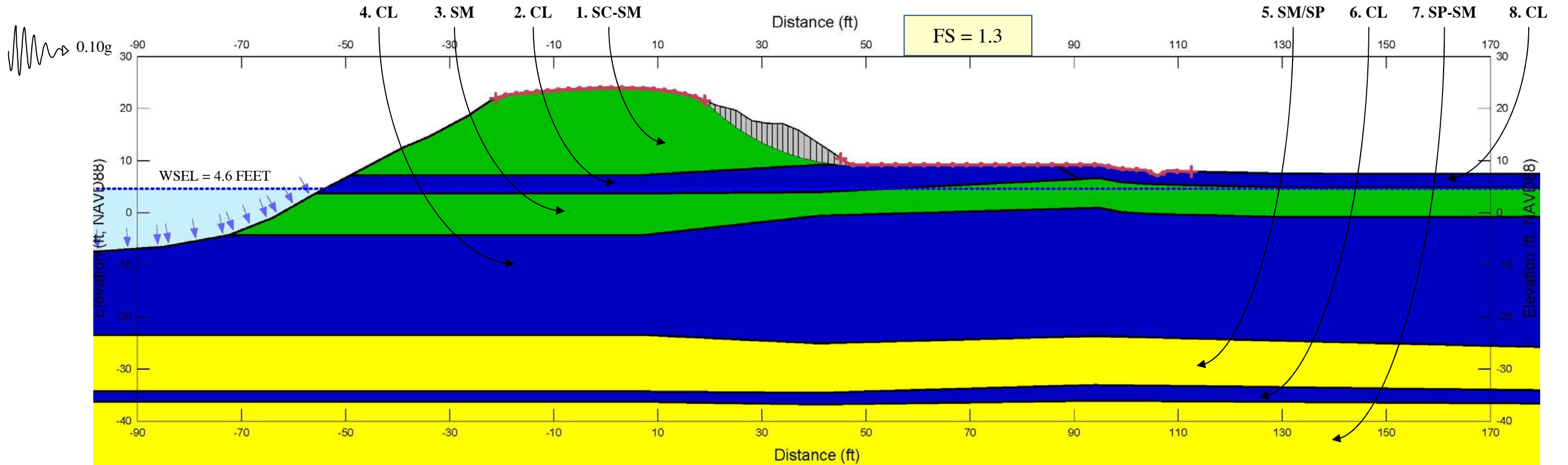
FIGURE NO.  
**E-14-E**

COPYRIGHT © 2014 BY ENGEO INCORPORATED. THIS DOCUMENT MAY NOT BE REPRODUCED IN WHOLE OR IN PART BY ANY MEANS WHATSOEVER, NOR MAY IT BE QUOTED OR EXCERPTED WITHOUT THE EXPRESS WRITTEN CONSENT OF ENGEO INCORPORATED.

### WATERSIDE SEISMIC



### LANDSIDE SEISMIC



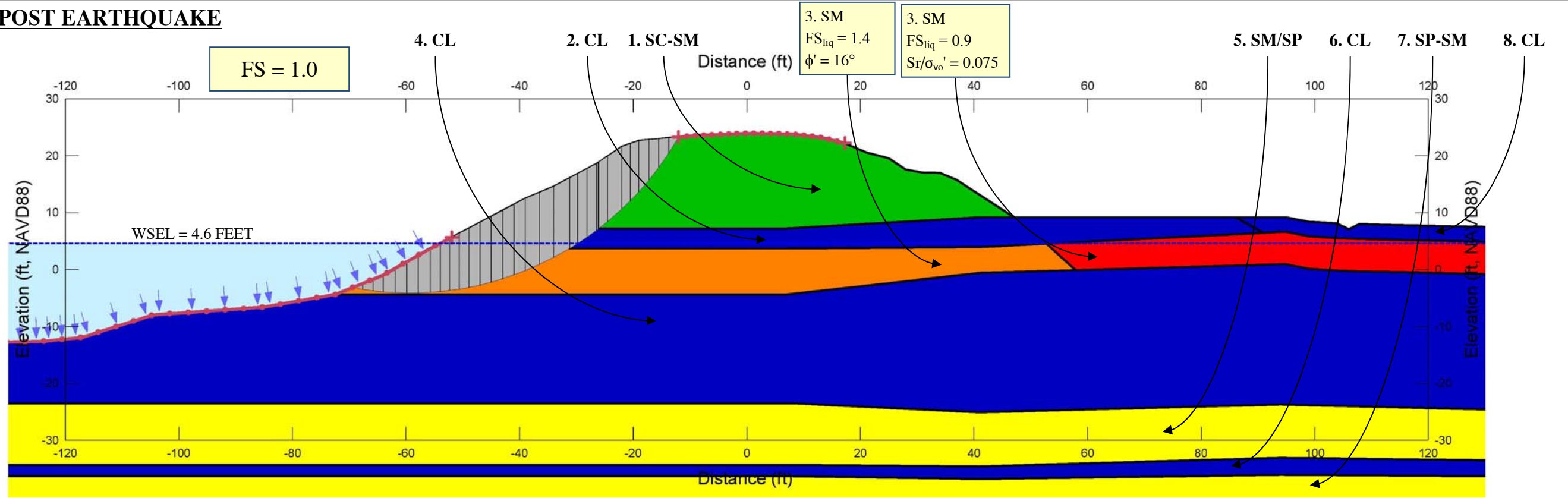
SEISMIC SLOPE STABILITY ANALYSIS  
 REACH D2A - STA 231+75  
 RECLAMATION DISTRICT NO. 17  
 SAN JOAQUIN COUNTY, CALIFORNIA

PROJECT NO.: 5747.005.000	
SCALE:	NO SCALE
DRAWN BY:	ZR
CHECKED BY:	NS

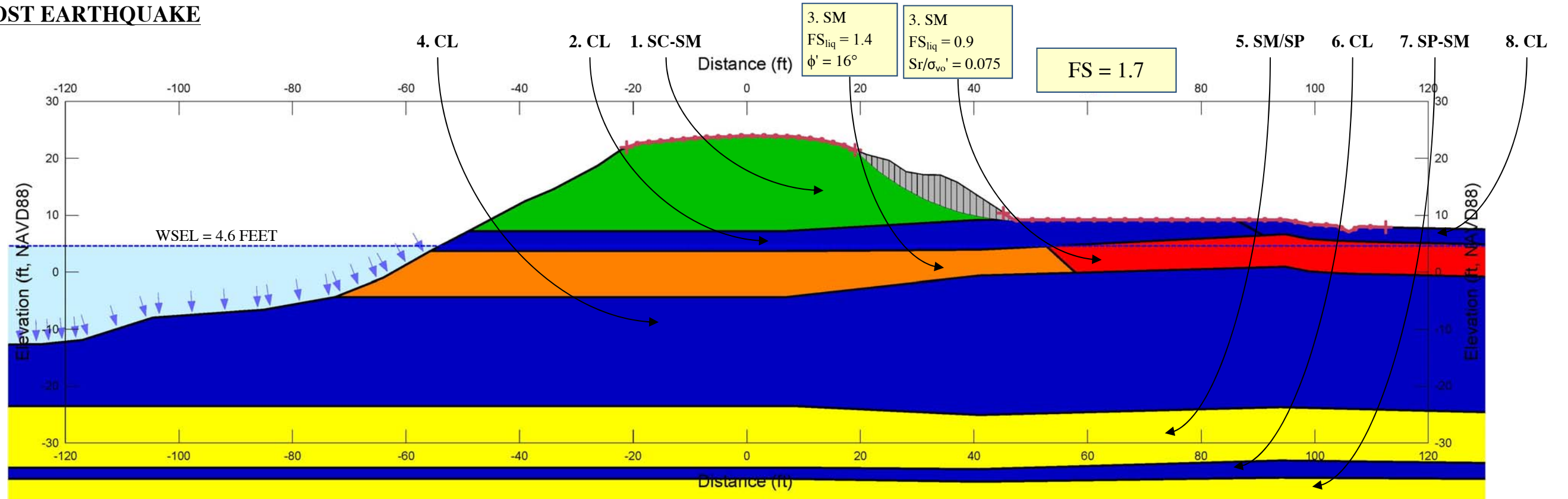
FIGURE NO.  
**E-14-F**

COPYRIGHT © 2014 BY ENGEO INCORPORATED. THIS DOCUMENT MAY NOT BE REPRODUCED IN WHOLE OR IN PART BY ANY MEANS WHATSOEVER, NOR MAY IT BE QUOTED OR EXCERPTED WITHOUT THE EXPRESS WRITTEN CONSENT OF ENGEO INCORPORATED.

### WATERSIDE POST EARTHQUAKE



### LANDSIDE POST EARTHQUAKE



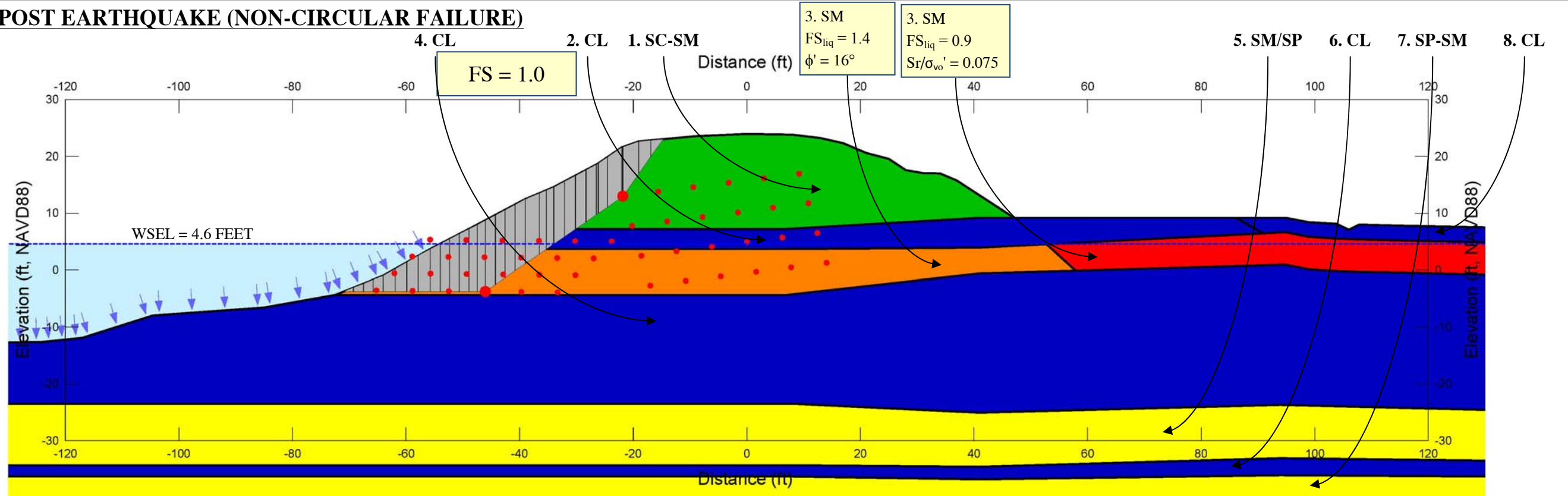
SEISMIC SLOPE STABILITY ANALYSIS  
 REACH D2A - STA 231+75  
 RECLAMATION DISTRICT NO. 17  
 SAN JOAQUIN COUNTY, CALIFORNIA

PROJECT NO.: 5747.005.000	
SCALE: NO SCALE	
DRAWN BY: BA	CHECKED BY: CC

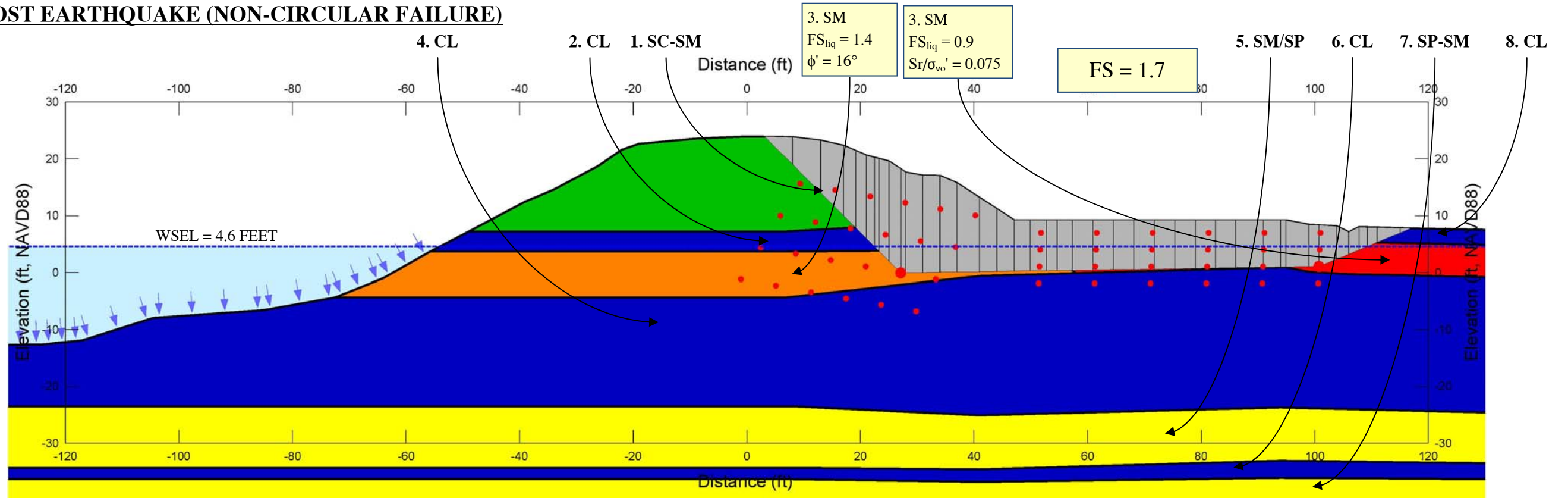
FIGURE NO.  
**E-14-G**

COPYRIGHT © 2014 BY ENGEO INCORPORATED. THIS DOCUMENT MAY NOT BE REPRODUCED IN WHOLE OR IN PART BY ANY MEANS WHATSOEVER, NOR MAY IT BE QUOTED OR EXCERPTED WITHOUT THE EXPRESS WRITTEN CONSENT OF ENGEO INCORPORATED.

### WATERSIDE POST EARTHQUAKE (NON-CIRCULAR FAILURE)



### LANDSIDE POST EARTHQUAKE (NON-CIRCULAR FAILURE)



SEISMIC SLOPE STABILITY ANALYSIS  
REACH D2A - STA 231+75  
RECLAMATION DISTRICT NO. 17  
SAN JOAQUIN COUNTY, CALIFORNIA

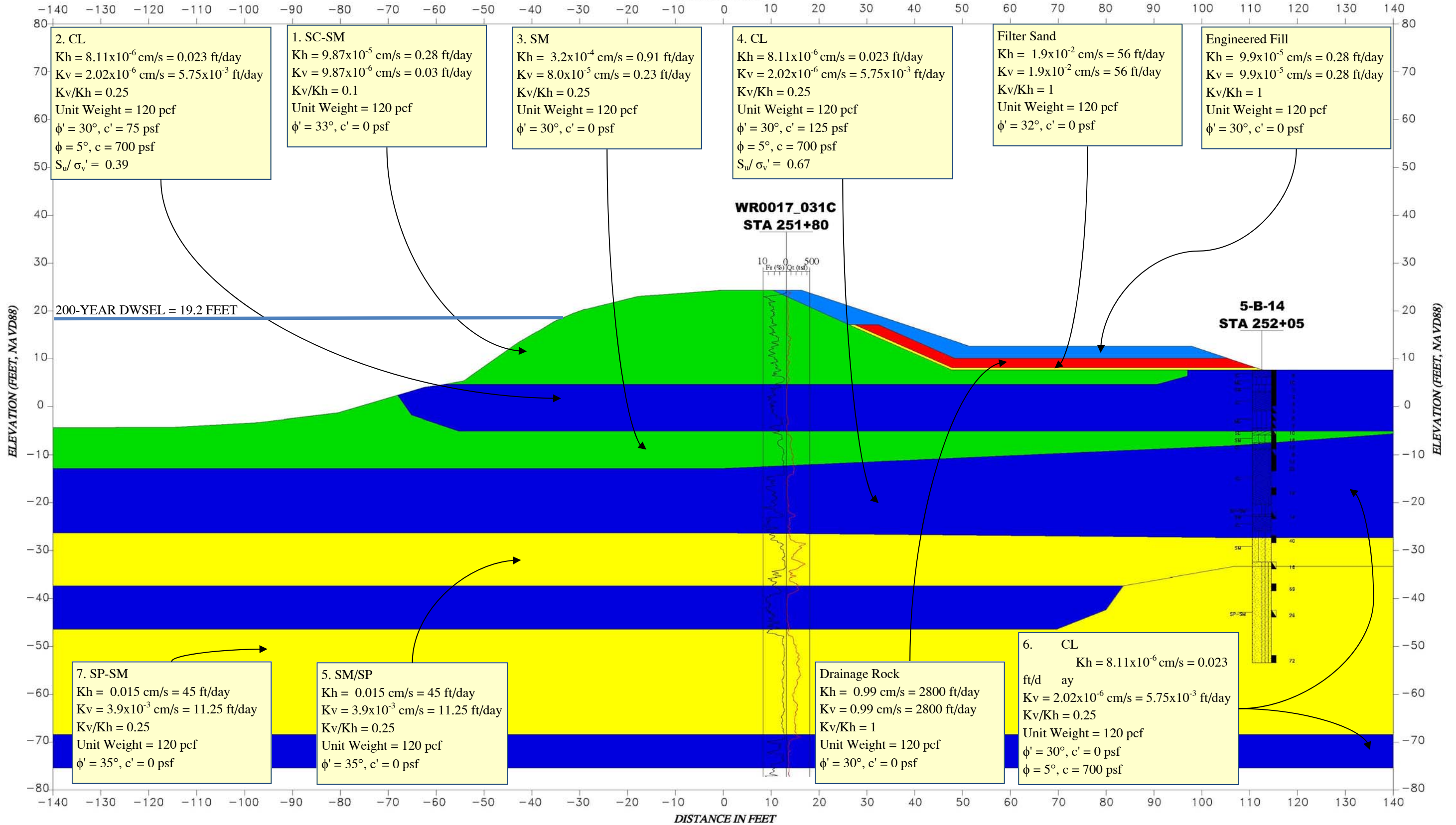
PROJECT NO.: 5747.005.000	
SCALE: NO SCALE	
DRAWN BY: BA	CHECKED BY: CC

FIGURE NO.  
E-14-H

# WATERSIDE

# LANDSIDE

DISTANCE IN FEET



COPYRIGHT © 2014 BY ENGEO INCORPORATED. THIS DOCUMENT MAY NOT BE REPRODUCED IN WHOLE OR IN PART BY ANY MEANS WHATSOEVER, NOR MAY IT BE QUOTED OR EXCERPTED WITHOUT THE EXPRESS WRITTEN CONSENT OF ENGEO INCORPORATED.

10/16/2015 1:31 PM



CROSS SECTION & MATERIAL PARAMETERS  
 REACH D2B - STA 251+50  
 RECLAMATION DISTRICT NO. 17  
 SAN JOAQUIN COUNTY, CALIFORNIA

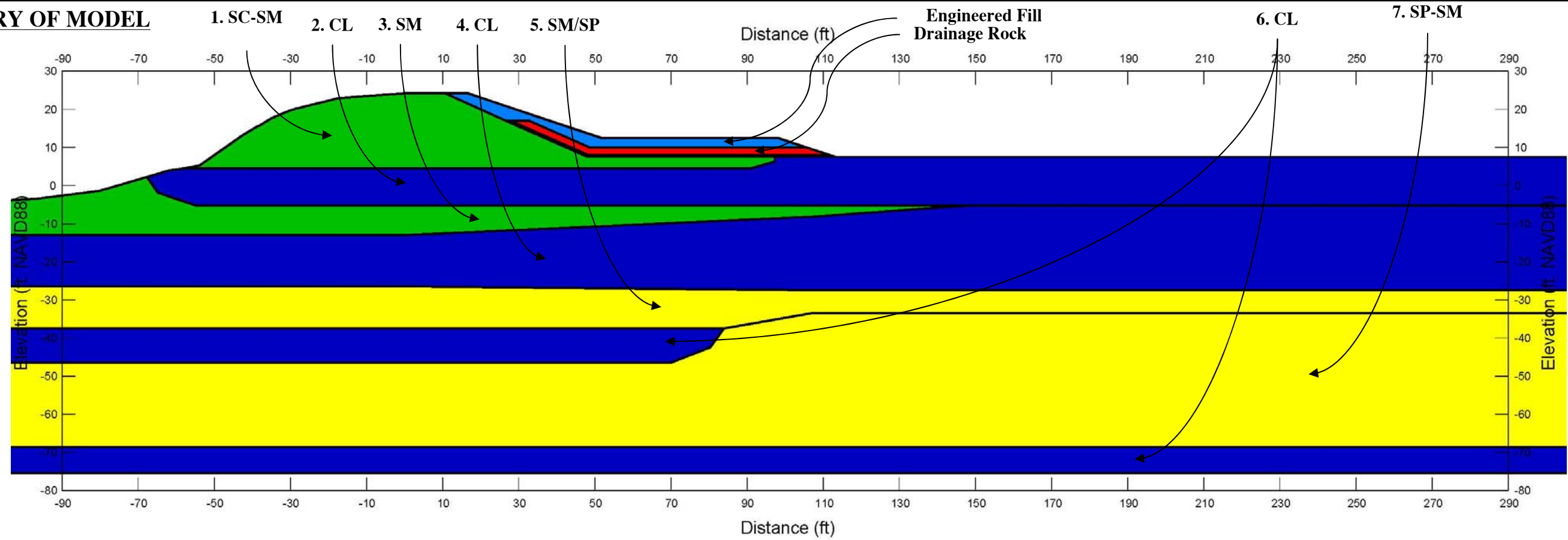
PROJECT NO.: 5747.005.000	
SCALE:	NO SCALE
DRAWN BY:	ZH
CHECKED BY:	NS

FIGURE NO.

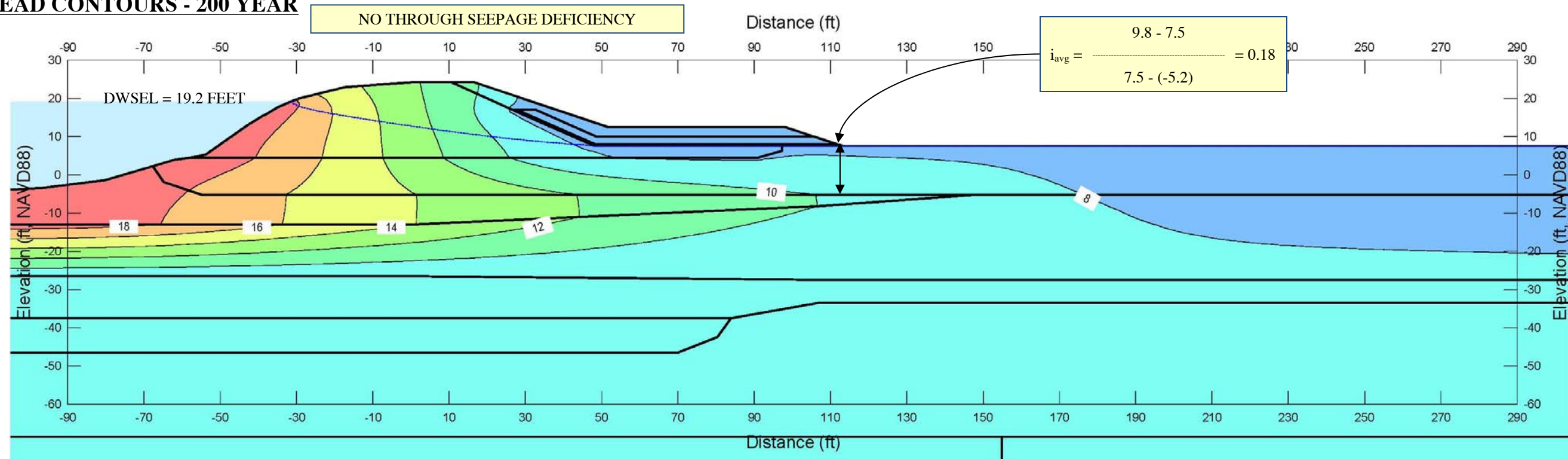
E-15-A

COPYRIGHT © 2014 BY ENGEO INCORPORATED. THIS DOCUMENT MAY NOT BE REPRODUCED IN WHOLE OR IN PART BY ANY MEANS WHATSOEVER, NOR MAY IT BE QUOTED OR EXCERPTED WITHOUT THE EXPRESS WRITTEN CONSENT OF ENGEO INCORPORATED.

### GEOMETRY OF MODEL



### TOTAL HEAD CONTOURS - 200 YEAR



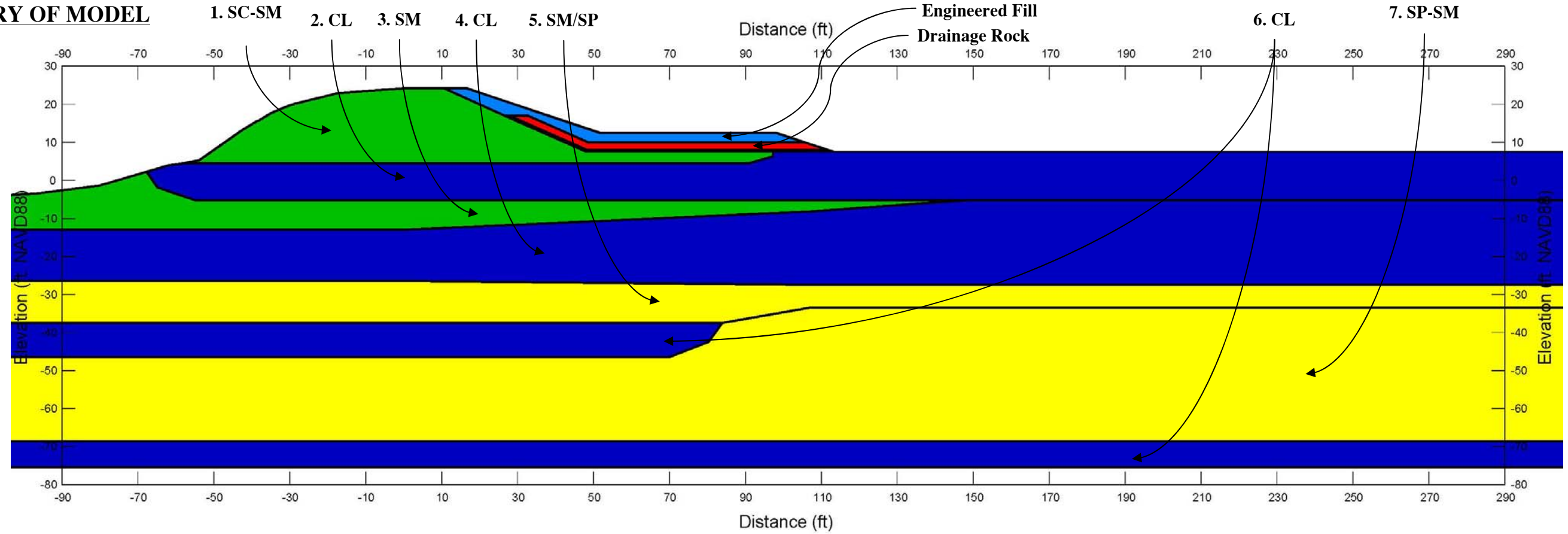
SEEPAGE ANALYSIS  
 REACH D2B - STA 251+50  
 RECLAMATION DISTRICT NO. 17  
 SAN JOAQUIN COUNTY, CALIFORNIA

PROJECT NO.: 5747.005.000	
SCALE:	NO SCALE
DRAWN BY:	ZR
CHECKED BY:	NS

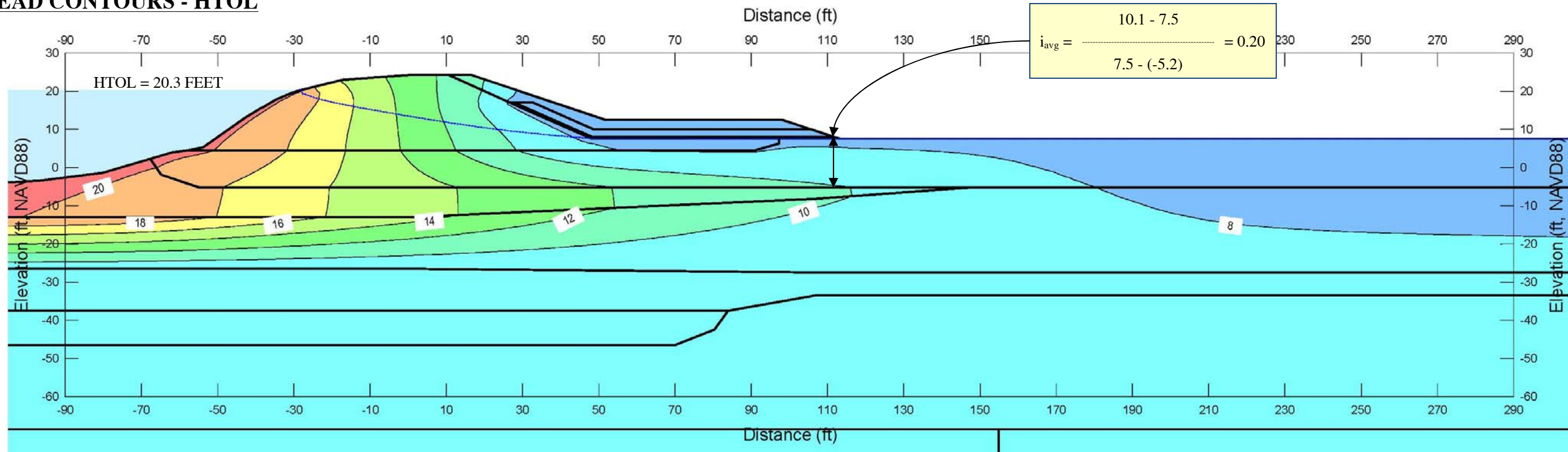
FIGURE NO.  
**E-15-B**

COPYRIGHT © 2014 BY ENGEO INCORPORATED. THIS DOCUMENT MAY NOT BE REPRODUCED IN WHOLE OR IN PART BY ANY MEANS WHATSOEVER, NOR MAY IT BE QUOTED OR EXCERPTED WITHOUT THE EXPRESS WRITTEN CONSENT OF ENGEO INCORPORATED.

**GEOMETRY OF MODEL**



**TOTAL HEAD CONTOURS - HTOL**



SEEPAGE ANALYSIS  
REACH D2B - STA 251+50  
RECLAMATION DISTRICT NO. 17  
SAN JOAQUIN COUNTY, CALIFORNIA

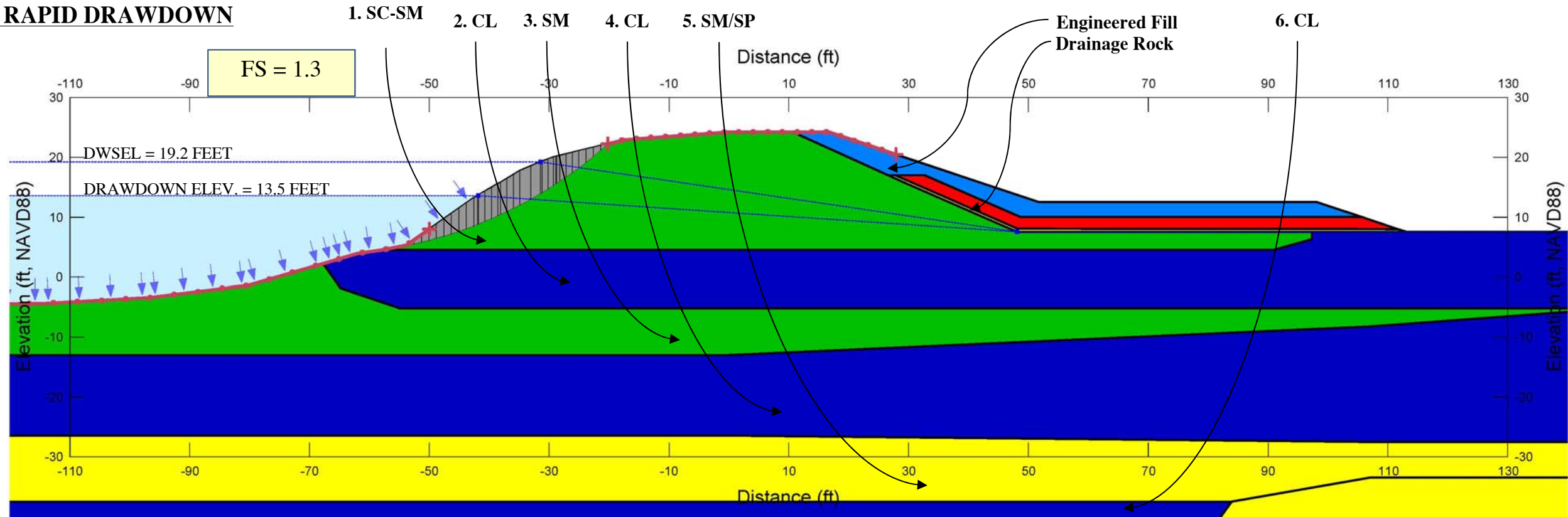
PROJECT NO.: 5747.005.000	
SCALE: NO SCALE	
DRAWN BY: ZR	CHECKED BY: NS

FIGURE NO.  
**E-15-C**

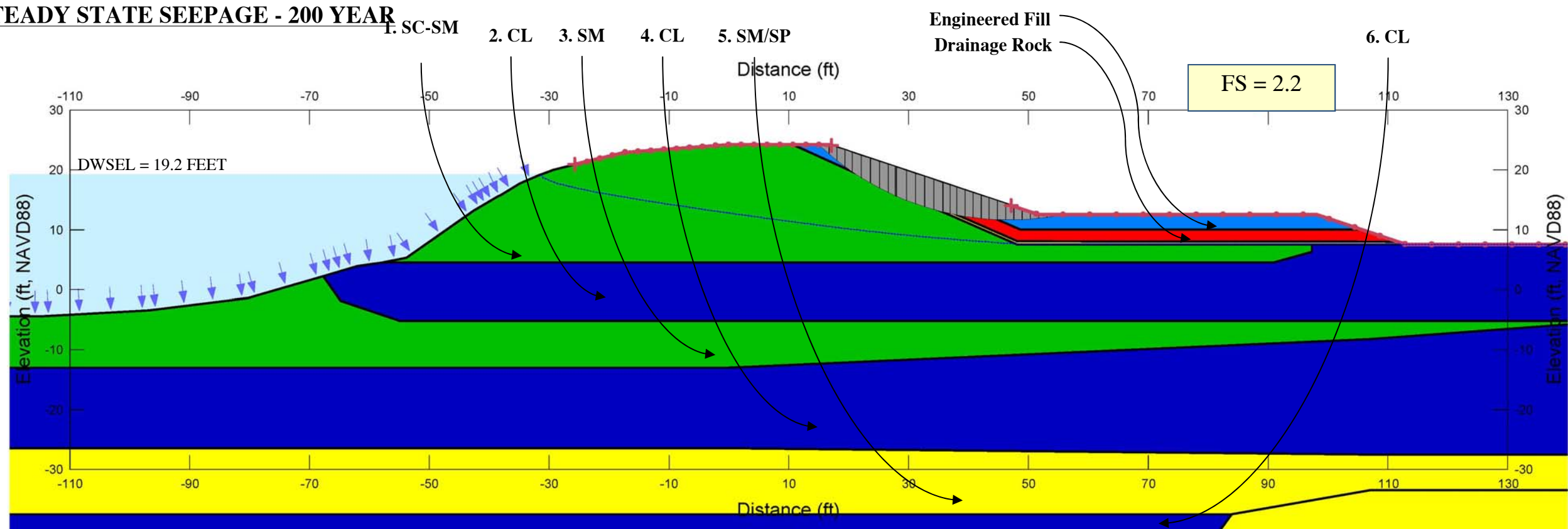


COPYRIGHT © 2014 BY ENGEO INCORPORATED. THIS DOCUMENT MAY NOT BE REPRODUCED IN WHOLE OR IN PART BY ANY MEANS WHATSOEVER, NOR MAY IT BE QUOTED OR EXCERPTED WITHOUT THE EXPRESS WRITTEN CONSENT OF ENGEO INCORPORATED.

### WATERSIDE RAPID DRAWDOWN



### LANDSIDE STEADY STATE SEEPAGE - 200 YEAR



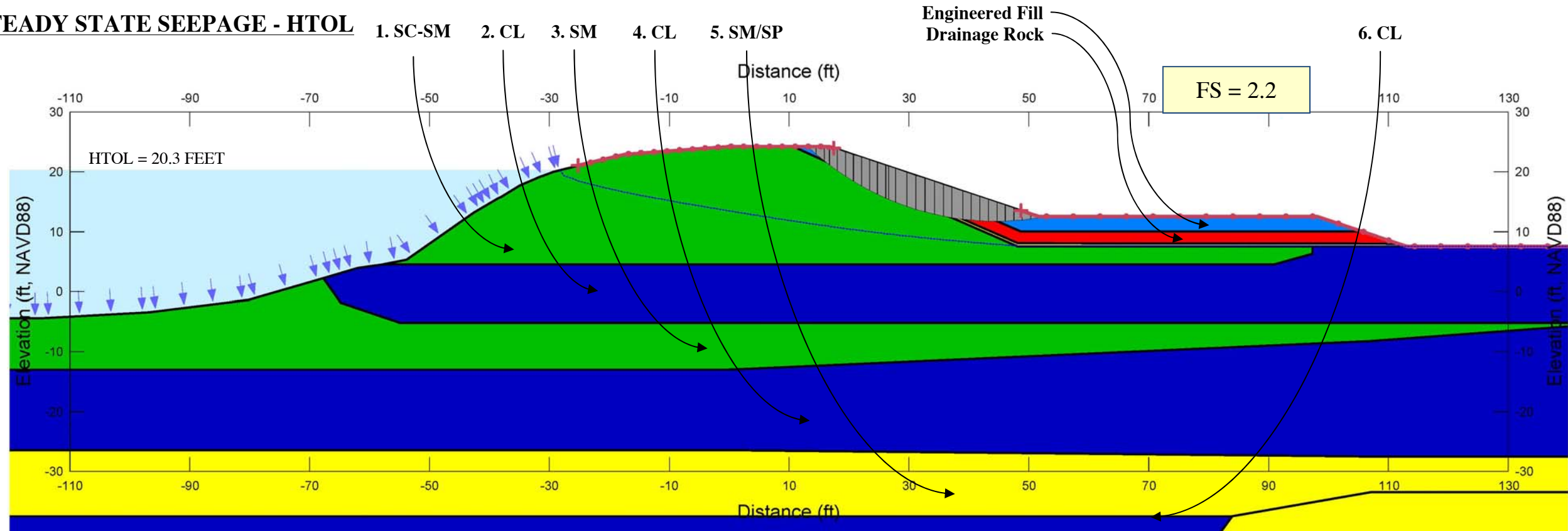
STATIC SLOPE STABILITY ANALYSIS  
 REACH D2B - STA 251+50  
 RECLAMATION DISTRICT NO. 17  
 SAN JOAQUIN COUNTY, CALIFORNIA

PROJECT NO.: 5747.005.000	
SCALE:	NO SCALE
DRAWN BY:	ZR
CHECKED BY:	NS

FIGURE NO.  
**E-15-D**

COPYRIGHT © 2014 BY ENGEO INCORPORATED. THIS DOCUMENT MAY NOT BE REPRODUCED IN WHOLE OR IN PART BY ANY MEANS WHATSOEVER, NOR MAY IT BE QUOTED OR EXCERPTED WITHOUT THE EXPRESS WRITTEN CONSENT OF ENGEO INCORPORATED.

**LANDSIDE STEADY STATE SEEPAGE - HTOL**



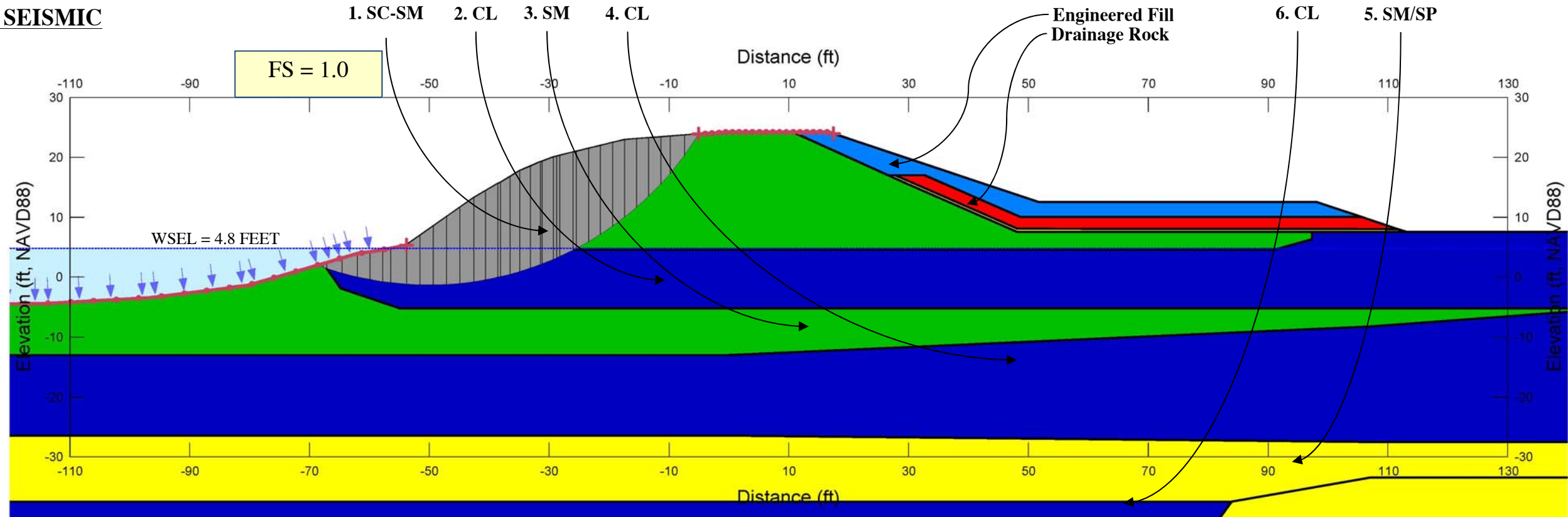
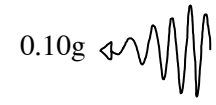
STATIC SLOPE STABILITY ANALYSIS  
 REACH D2B - STA 251+50  
 RECLAMATION DISTRICT NO. 17  
 SAN JOAQUIN COUNTY, CALIFORNIA

PROJECT NO.: 5747.005.000	
SCALE:	NO SCALE
DRAWN BY: ZR	CHECKED BY: NS

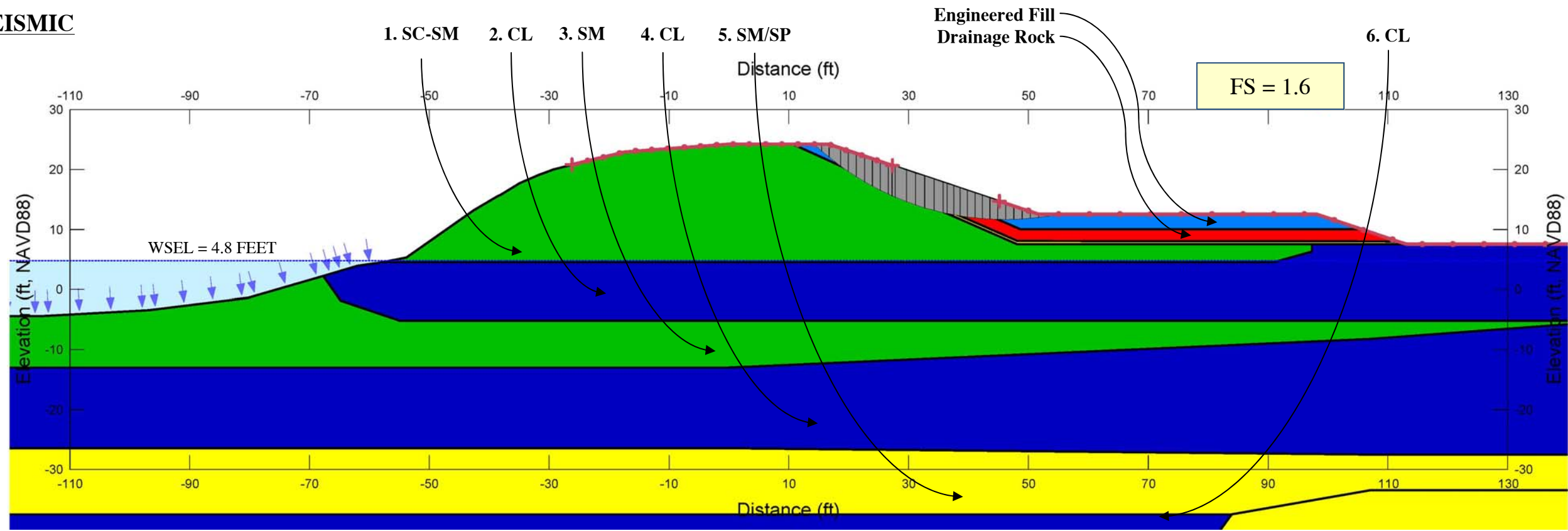
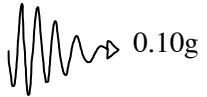
FIGURE NO.  
**E-15-E**

COPYRIGHT © 2014 BY ENGEO INCORPORATED. THIS DOCUMENT MAY NOT BE REPRODUCED IN WHOLE OR IN PART BY ANY MEANS WHATSOEVER, NOR MAY IT BE QUOTED OR EXCERPTED WITHOUT THE EXPRESS WRITTEN CONSENT OF ENGEO INCORPORATED.

**WATERSIDE SEISMIC**



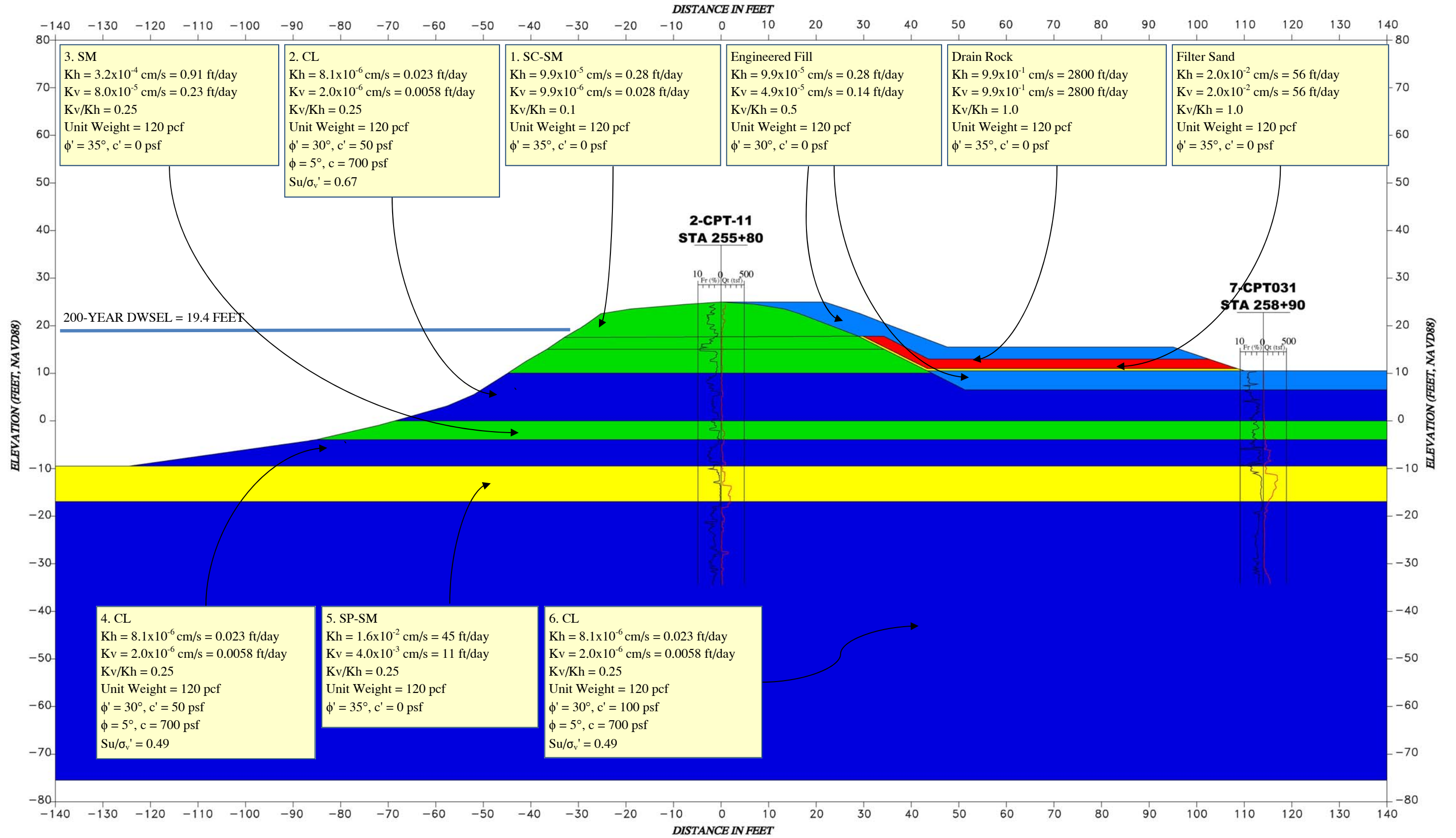
**LANDSIDE SEISMIC**



	SEISMIC SLOPE STABILITY ANALYSIS REACH D2B - STA 251+50 RECLAMATION DISTRICT NO. 17 SAN JOAQUIN COUNTY, CALIFORNIA		PROJECT NO.: 5747.005.000	FIGURE NO. E-15-F
			SCALE: NO SCALE	
			DRAWN BY: ZR	CHECKED BY: NS

# WATERSIDE

# LANDSIDE



COPYRIGHT © 2014 BY ENGEO INCORPORATED. THIS DOCUMENT MAY NOT BE REPRODUCED IN WHOLE OR IN PART BY ANY MEANS WHATSOEVER, NOR MAY IT BE QUOTED OR EXCERPTED WITHOUT THE EXPRESS WRITTEN CONSENT OF ENGEO INCORPORATED.



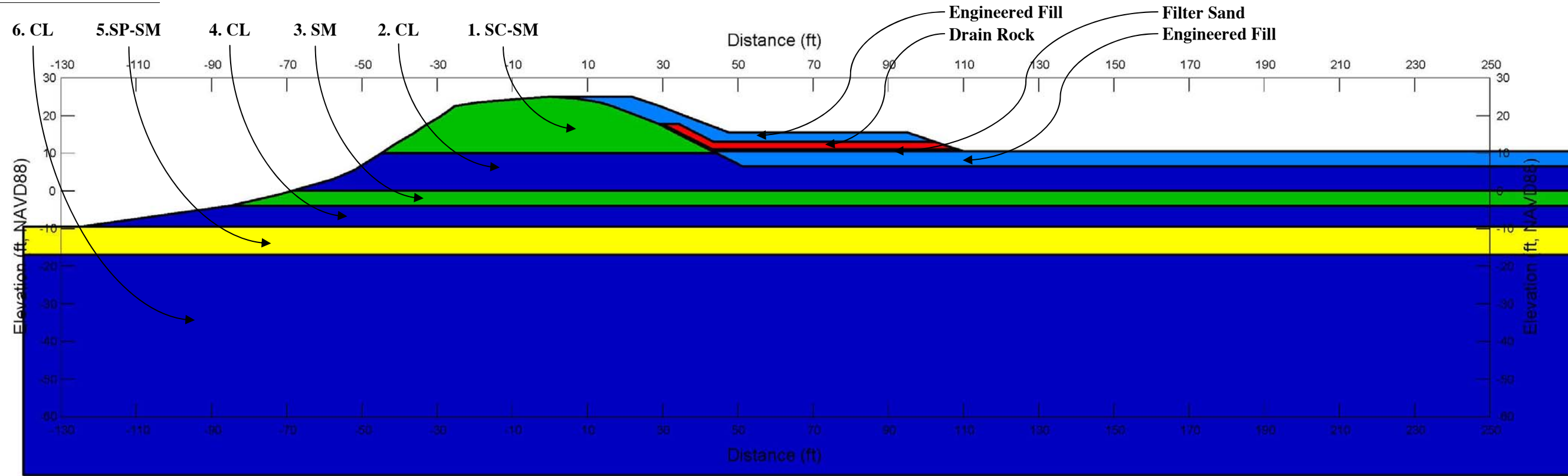
**CROSS SECTION & MATERIAL PARAMETERS**  
 REACH D2B - STA 254+50  
 RECLAMATION DISTRICT NO. 17  
 SAN JOAQUIN COUNTY, CALIFORNIA

PROJECT NO.: 5747.005.000	
SCALE:	NO SCALE
DRAWN BY:	ZR
CHECKED BY:	NS

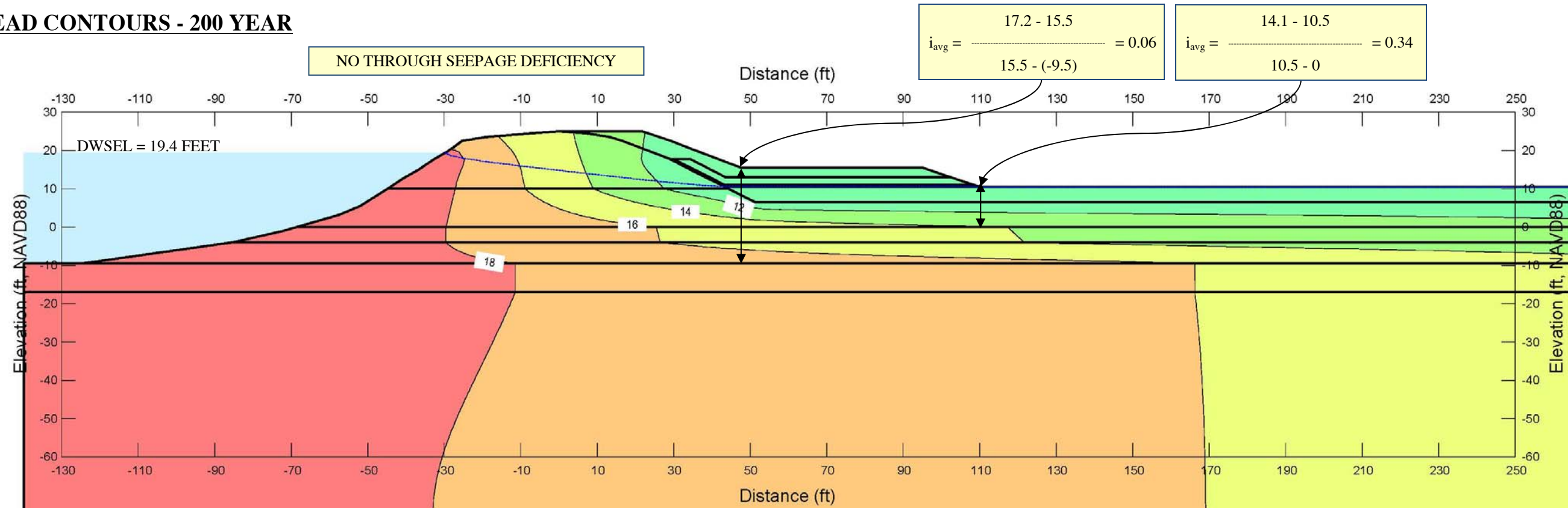
FIGURE NO.  
**E-16-A**

COPYRIGHT © 2014 BY ENGEO INCORPORATED. THIS DOCUMENT MAY NOT BE REPRODUCED IN WHOLE OR IN PART BY ANY MEANS WHATSOEVER, NOR MAY IT BE QUOTED OR EXCERPTED WITHOUT THE EXPRESS WRITTEN CONSENT OF ENGEO INCORPORATED.

### GEOMETRY OF MODEL



### TOTAL HEAD CONTOURS - 200 YEAR



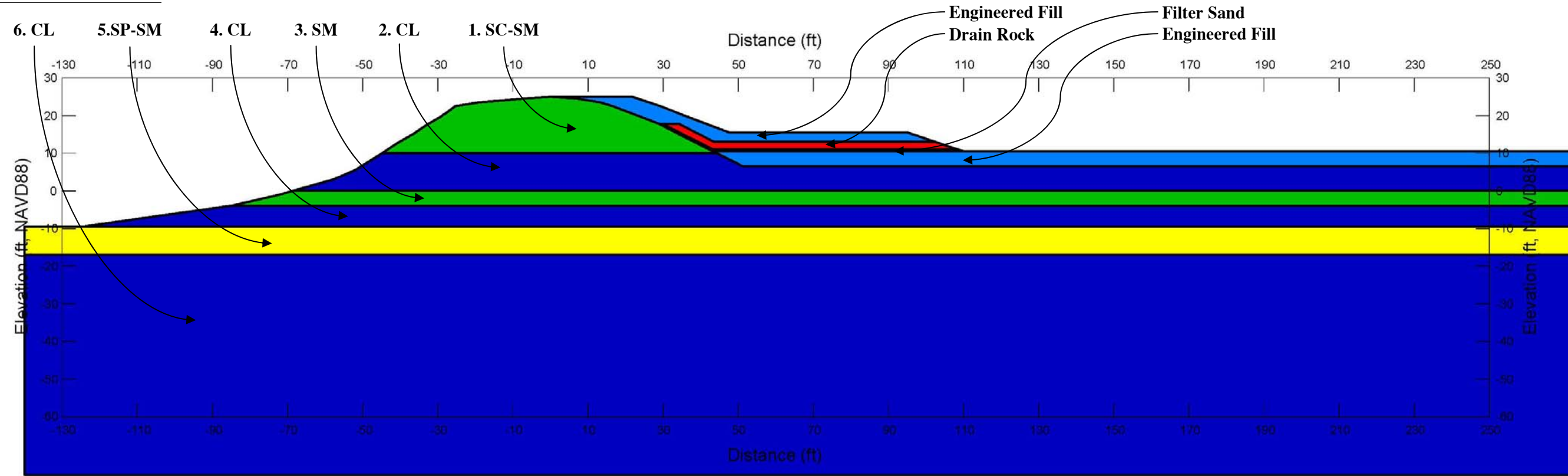
SEEPAGE ANALYSIS  
 REACH D2B - STA 254+50  
 RECLAMATION DISTRICT NO. 17  
 SAN JOAQUIN COUNTY, CALIFORNIA

PROJECT NO.: 5747.005.000	
SCALE: NO SCALE	
DRAWN BY: ZR	CHECKED BY: NS

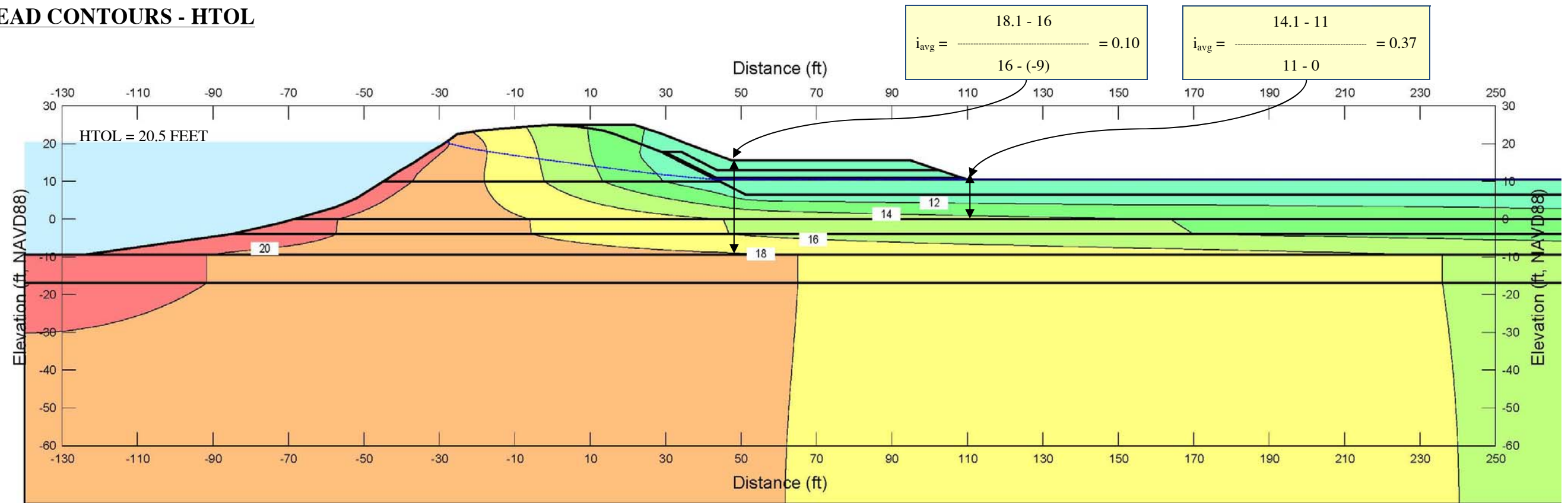
FIGURE NO.  
 E-16-B

COPYRIGHT © 2014 BY ENGEO INCORPORATED. THIS DOCUMENT MAY NOT BE REPRODUCED IN WHOLE OR IN PART BY ANY MEANS WHATSOEVER, NOR MAY IT BE QUOTED OR EXCERPTED WITHOUT THE EXPRESS WRITTEN CONSENT OF ENGEO INCORPORATED.

### GEOMETRY OF MODEL



### TOTAL HEAD CONTOURS - HTOL



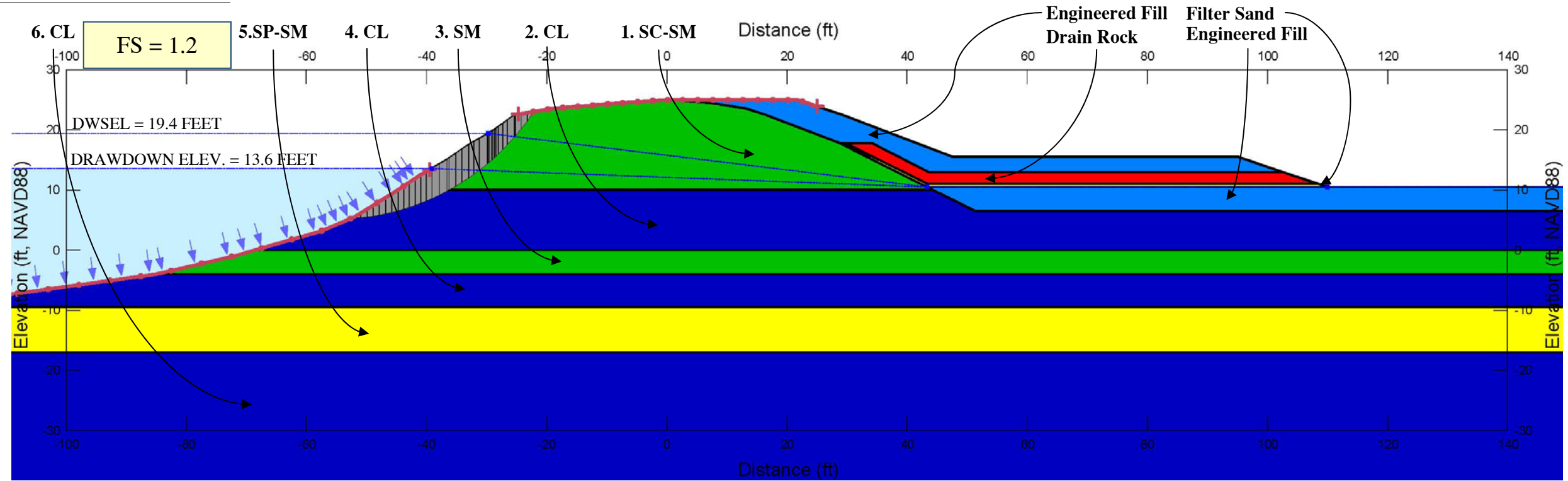
SEEPAGE ANALYSIS  
 REACH D2B - STA 254+50  
 RECLAMATION DISTRICT NO. 17  
 SAN JOAQUIN COUNTY, CALIFORNIA

PROJECT NO.: 5747.005.000	
SCALE:	NO SCALE
DRAWN BY:	ZR
CHECKED BY:	NS

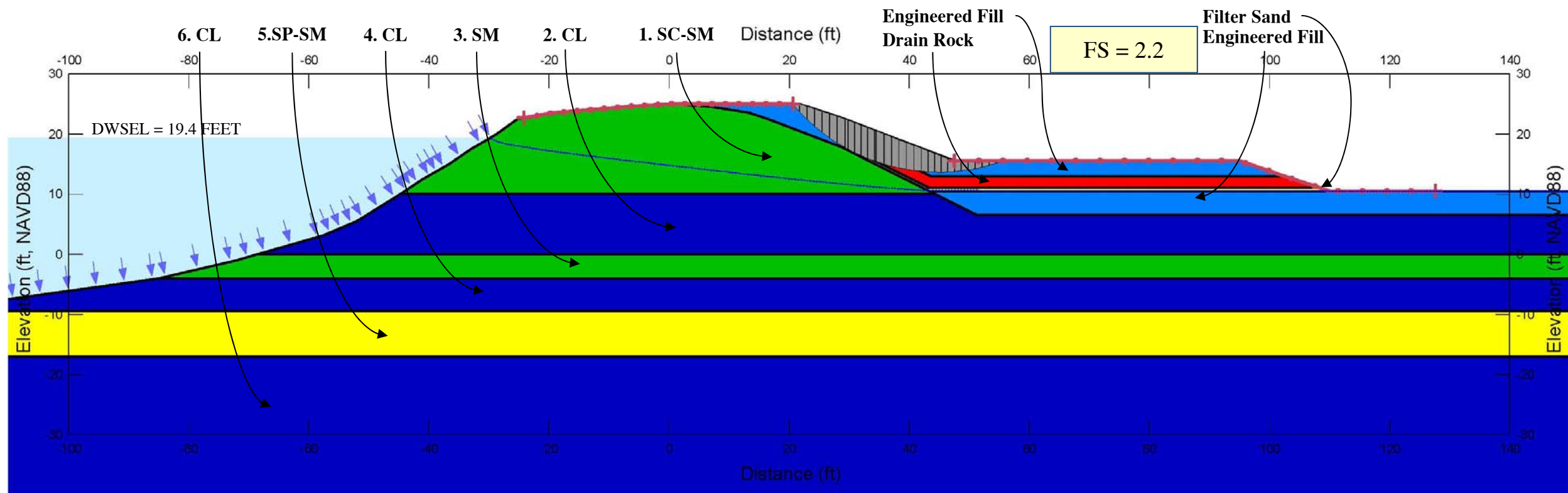
FIGURE NO.  
**E-16-C**

COPYRIGHT © 2014 BY ENGEO INCORPORATED. THIS DOCUMENT MAY NOT BE REPRODUCED IN WHOLE OR IN PART BY ANY MEANS WHATSOEVER, NOR MAY IT BE QUOTED OR EXCERPTED WITHOUT THE EXPRESS WRITTEN CONSENT OF ENGEO INCORPORATED.

### WATERSIDE RAPID DRAWDOWN



### LANDSIDE STEADY STATE SEEPAGE - 200 YEAR



STATIC SLOPE STABILITY ANALYSIS  
 REACH D2B - STA 254+50  
 RECLAMATION DISTRICT NO. 17  
 SAN JOAQUIN COUNTY, CALIFORNIA

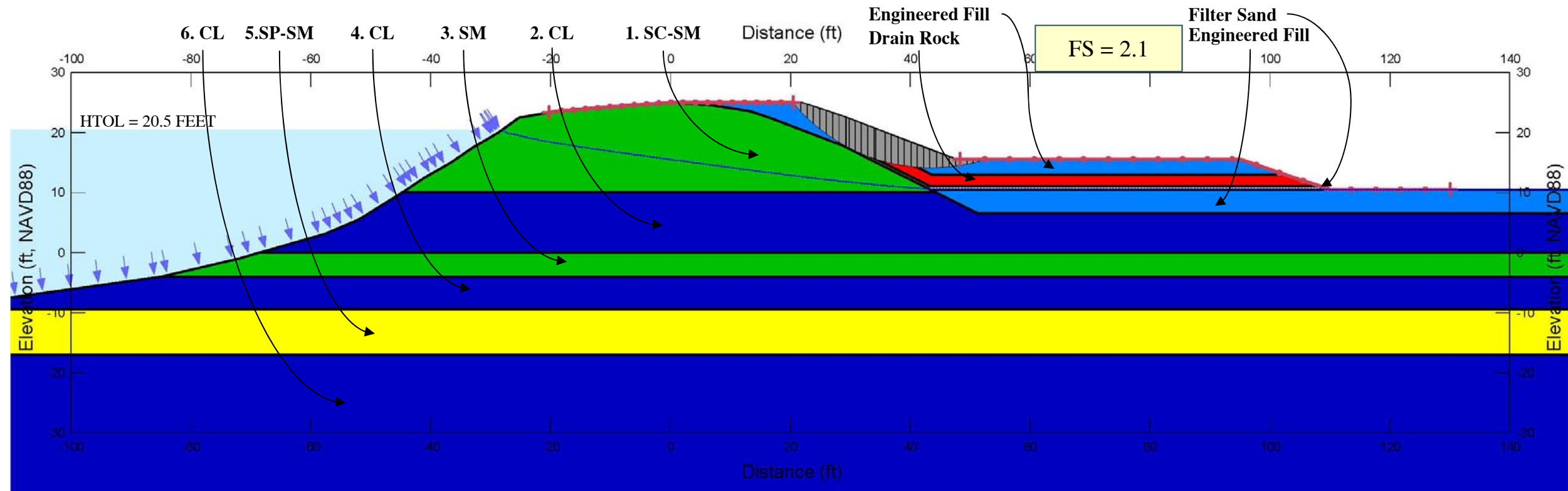
PROJECT NO.: 5747.005.000	
SCALE:	NO SCALE
DRAWN BY:	ZR
CHECKED BY:	NS

FIGURE NO.

E-16-D

COPYRIGHT © 2014 BY ENGEO INCORPORATED. THIS DOCUMENT MAY NOT BE REPRODUCED IN WHOLE OR IN PART BY ANY MEANS WHATSOEVER WITHOUT THE EXPRESS WRITTEN CONSENT OF ENGEO INCORPORATED.

### LANDSIDE STEADY STATE SEEPAGE - HTOL



STATIC SLOPE STABILITY ANALYSIS  
 REACH D2B - STA 254+50  
 RECLAMATION DISTRICT NO. 17  
 SAN JOAQUIN COUNTY, CALIFORNIA

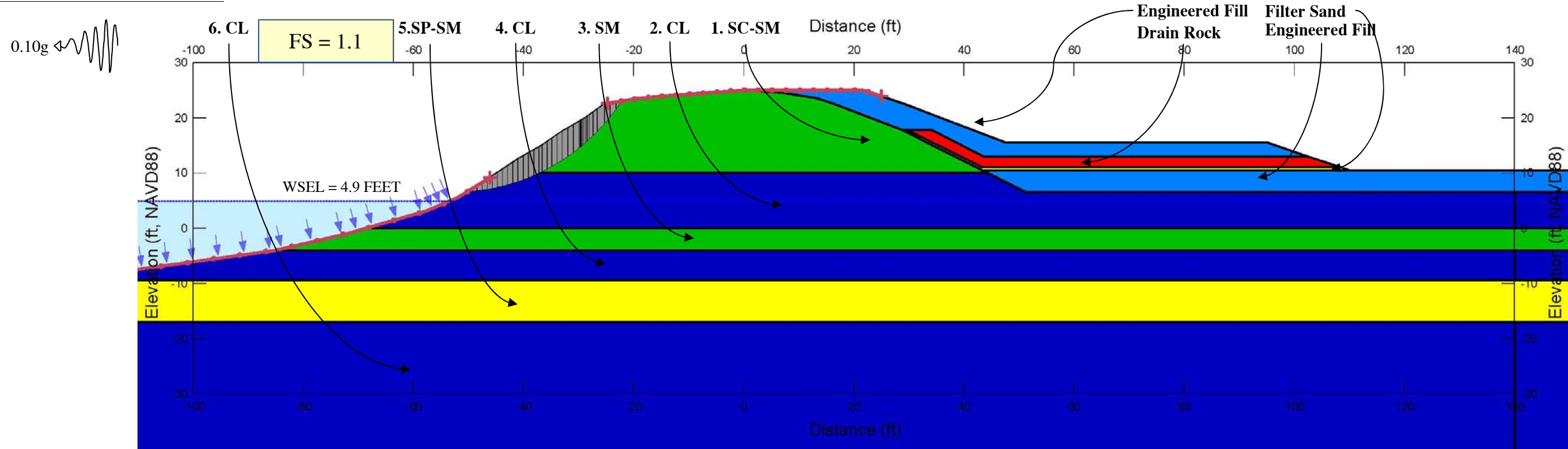
PROJECT NO.: 5747.005.000	
SCALE: NO SCALE	
DRAWN BY: ZR	CHECKED BY: NS

FIGURE NO.  
**E-16-E**

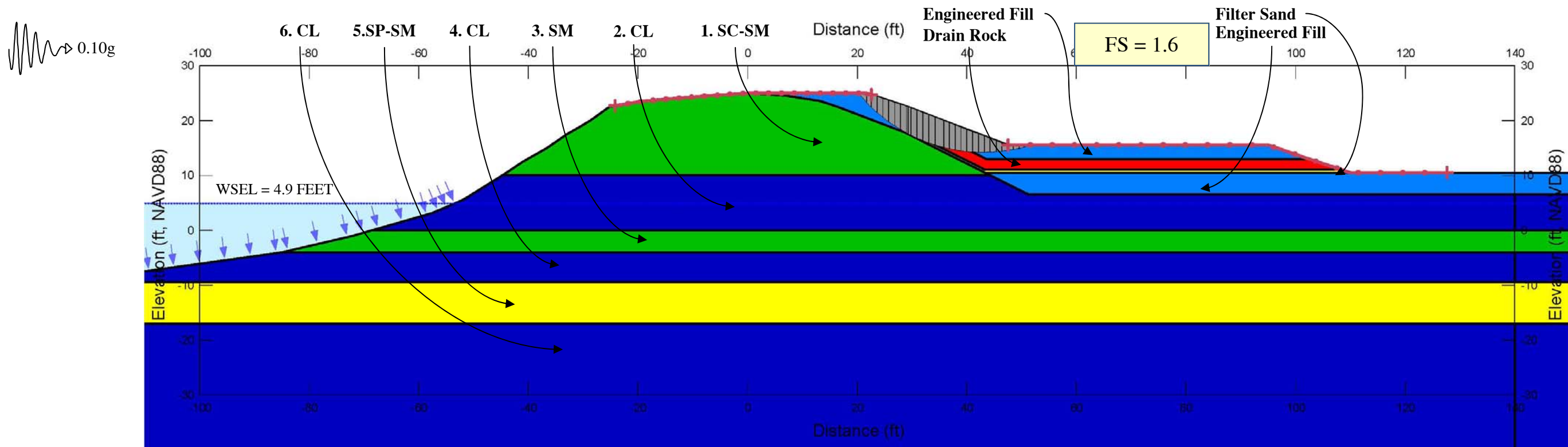


COPYRIGHT © 2014 BY ENGEO INCORPORATED. THIS DOCUMENT MAY NOT BE REPRODUCED IN WHOLE OR IN PART BY ANY MEANS WHATSOEVER, NOR MAY IT BE QUOTED OR EXCERPTED WITHOUT THE EXPRESS WRITTEN CONSENT OF ENGEO INCORPORATED.

### WATERSIDE SEISMIC



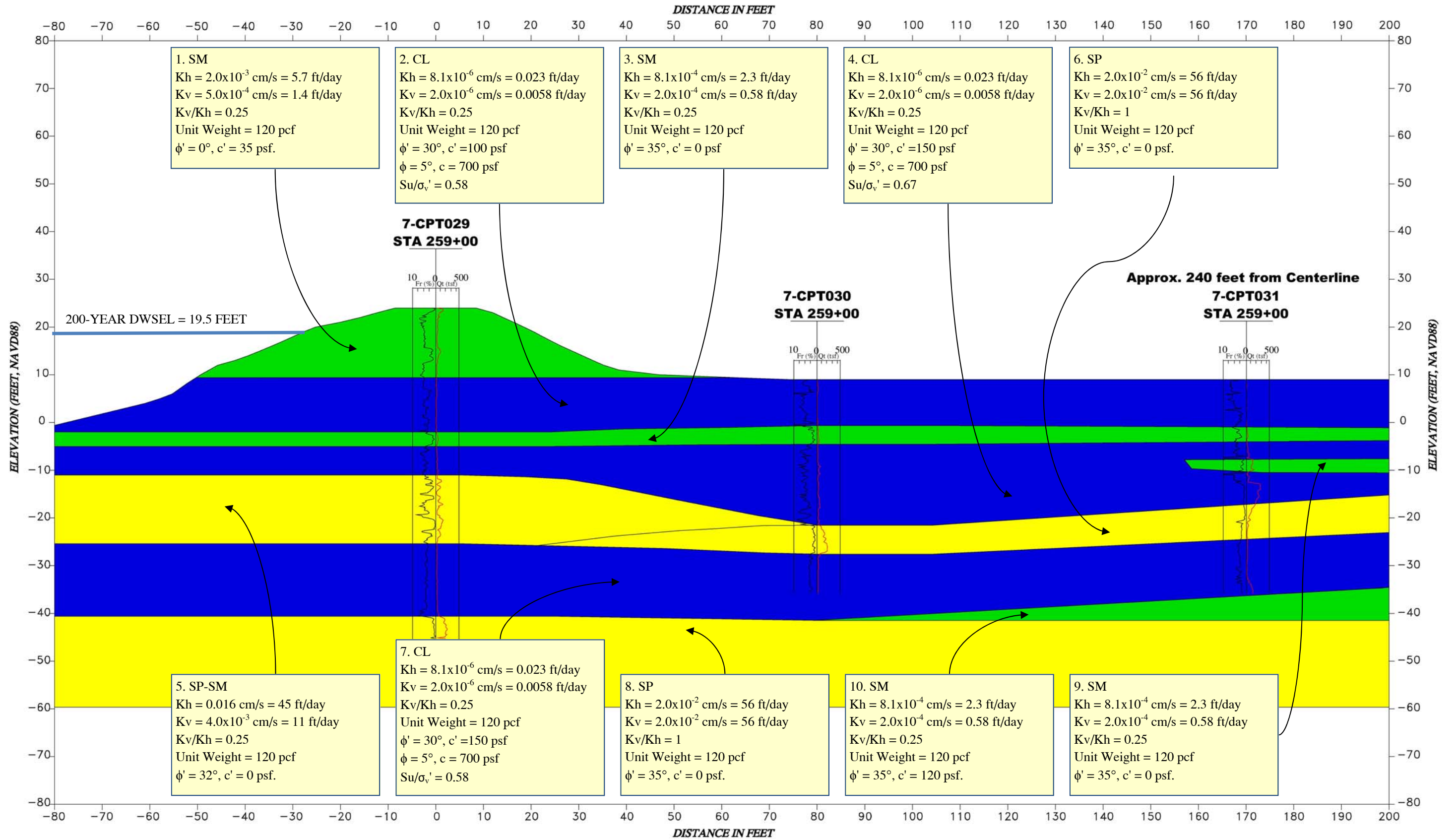
### LANDSIDE SEISMIC



	SEISMIC SLOPE STABILITY ANALYSIS		PROJECT NO.: 5747.005.000	FIGURE NO. <b>E-16-F</b>
	REACH D2B - STA 254+50		SCALE: NO SCALE	
	RECLAMATION DISTRICT NO. 17 SAN JOAQUIN COUNTY, CALIFORNIA		DRAWN BY: ZR    CHECKED BY: NS	

# WATERSIDE

# LANDSIDE



COPYRIGHT © 2014 BY ENGEO INCORPORATED. THIS DOCUMENT MAY NOT BE REPRODUCED IN WHOLE OR IN PART BY ANY MEANS WHATSOEVER, NOR MAY IT BE QUOTED OR EXCERPTED WITHOUT THE EXPRESS WRITTEN CONSENT OF ENGEO INCORPORATED.



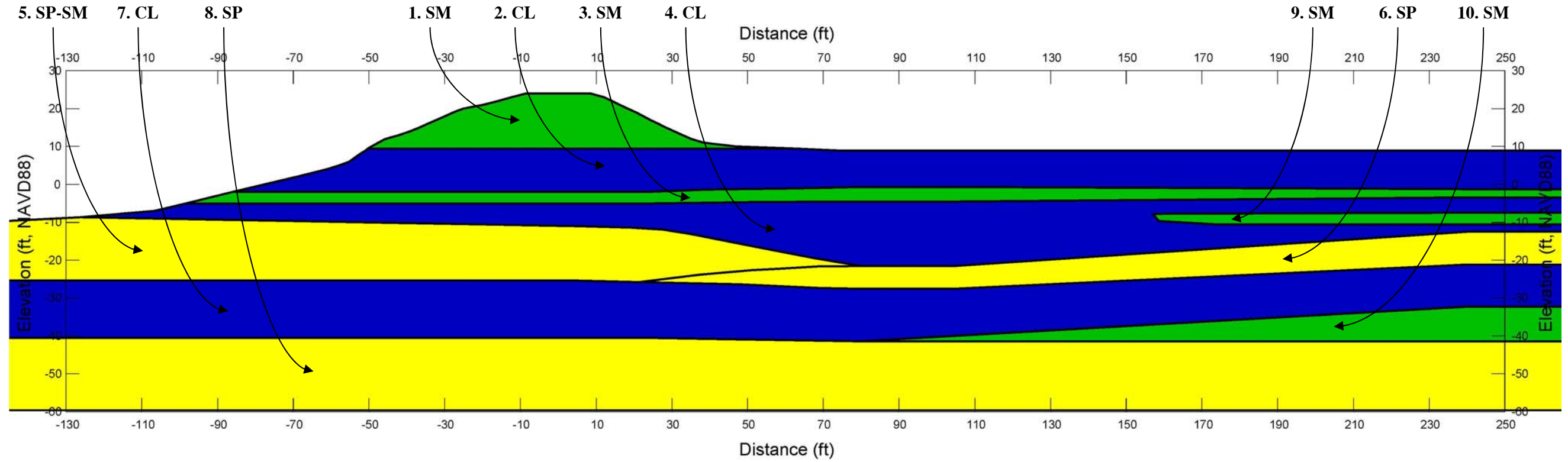
**CROSS SECTION & MATERIAL PARAMETERS**  
 REACH D2C - STA 259+00  
 RECLAMATION DISTRICT NO. 17  
 SAN JOAQUIN COUNTY, CALIFORNIA

PROJECT NO.: 5747.005.000	
SCALE:	NO SCALE
DRAWN BY:	ZR
CHECKED BY:	AL

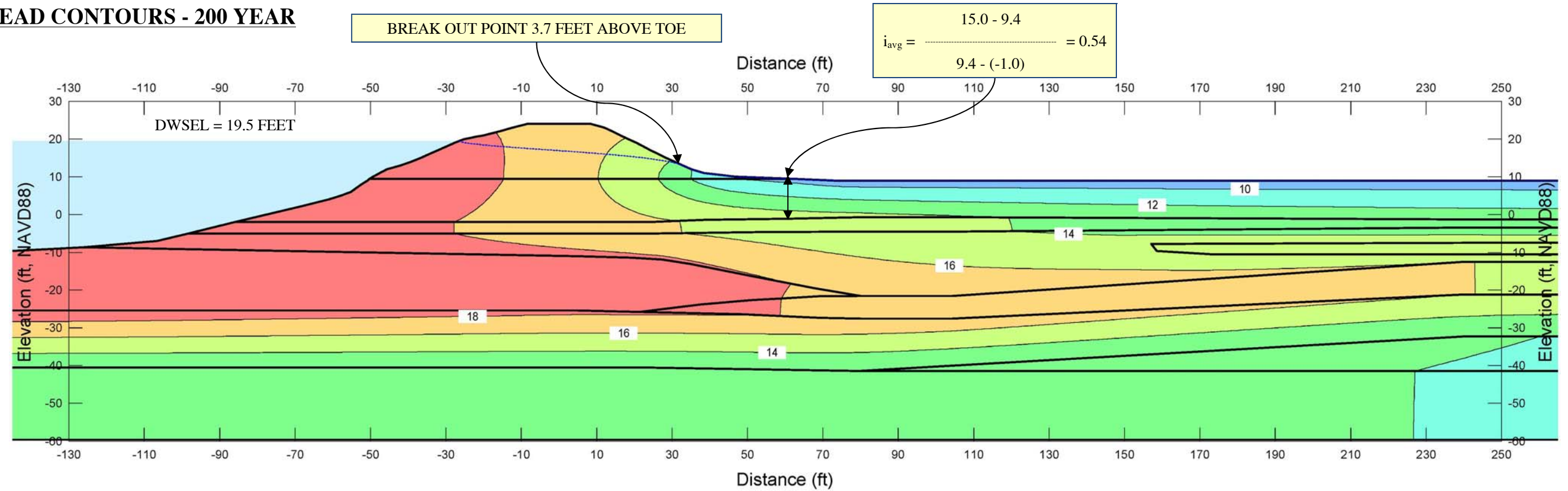
FIGURE NO.  
**E-17-A**

COPYRIGHT © 2014 BY ENGEO INCORPORATED. THIS DOCUMENT MAY NOT BE REPRODUCED IN WHOLE OR IN PART BY ANY MEANS WHATSOEVER, NOR MAY IT BE QUOTED OR EXCERPTED WITHOUT THE EXPRESS WRITTEN CONSENT OF ENGEO INCORPORATED.

**GEOMETRY OF MODEL**



**TOTAL HEAD CONTOURS - 200 YEAR**



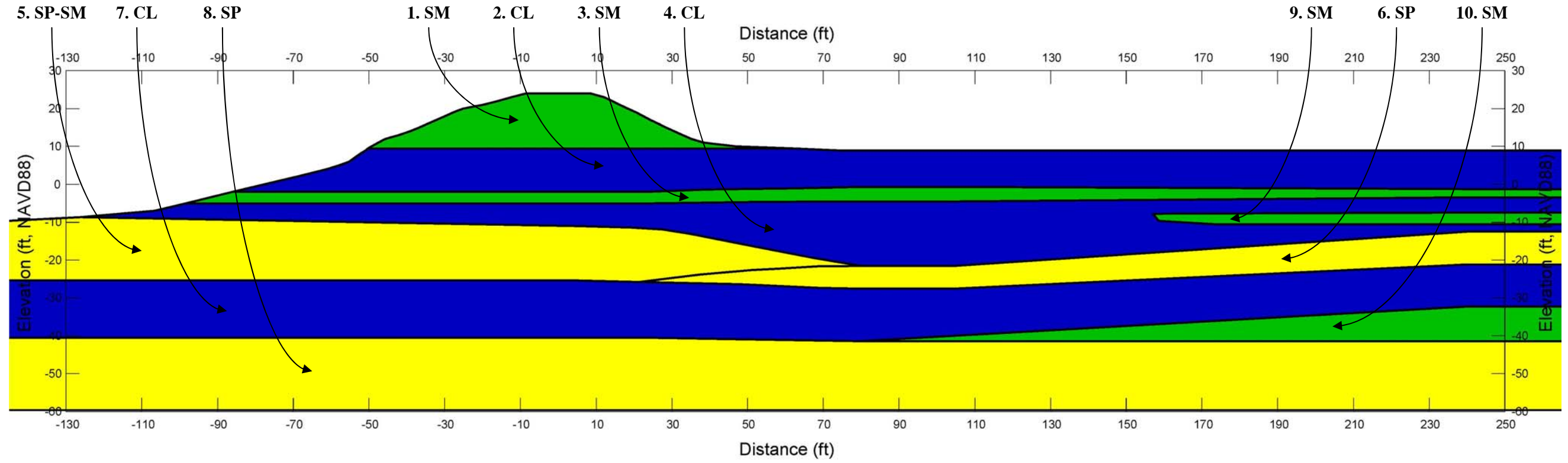
SEEPAGE ANALYSIS  
 REACH D2C - STA 259+00  
 RECLAMATION DISTRICT NO. 17  
 SAN JOAQUIN COUNTY, CALIFORNIA

PROJECT NO.: 5747.005.000	
SCALE: NO SCALE	
DRAWN BY: ZR	CHECKED BY: NS

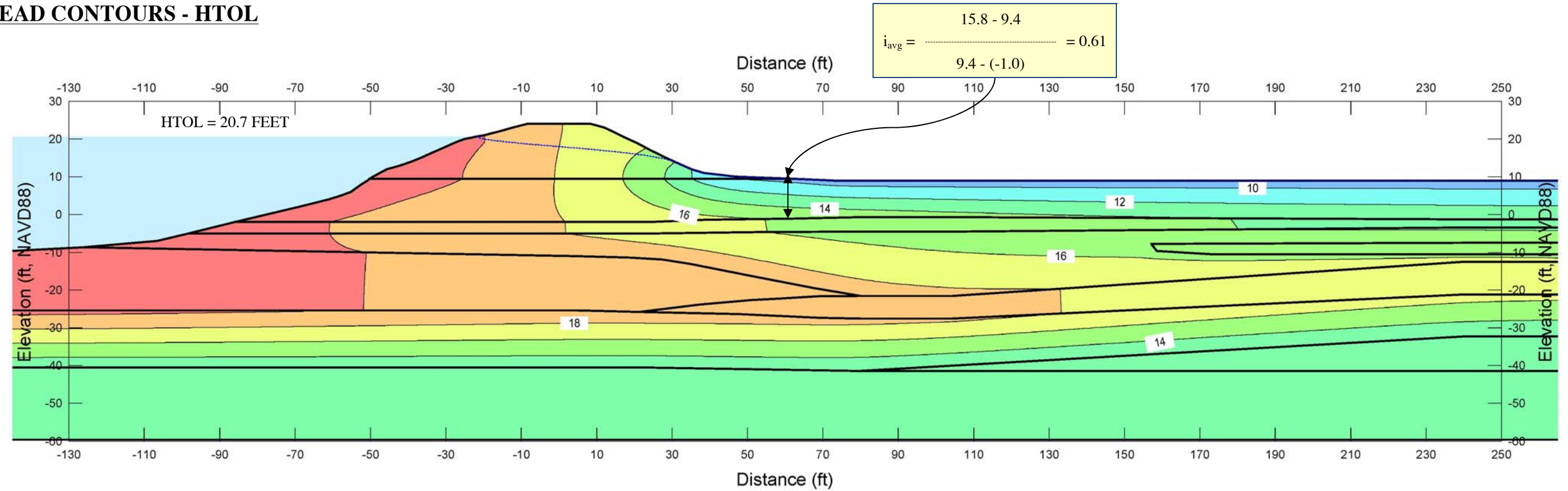
FIGURE NO.  
**E-17-B**

COPYRIGHT © 2014 BY ENGEO INCORPORATED. THIS DOCUMENT MAY NOT BE REPRODUCED IN WHOLE OR IN PART BY ANY MEANS WHATSOEVER, NOR MAY IT BE QUOTED OR EXCERPTED WITHOUT THE EXPRESS WRITTEN CONSENT OF ENGEO INCORPORATED.

### GEOMETRY OF MODEL



### TOTAL HEAD CONTOURS - HTOL



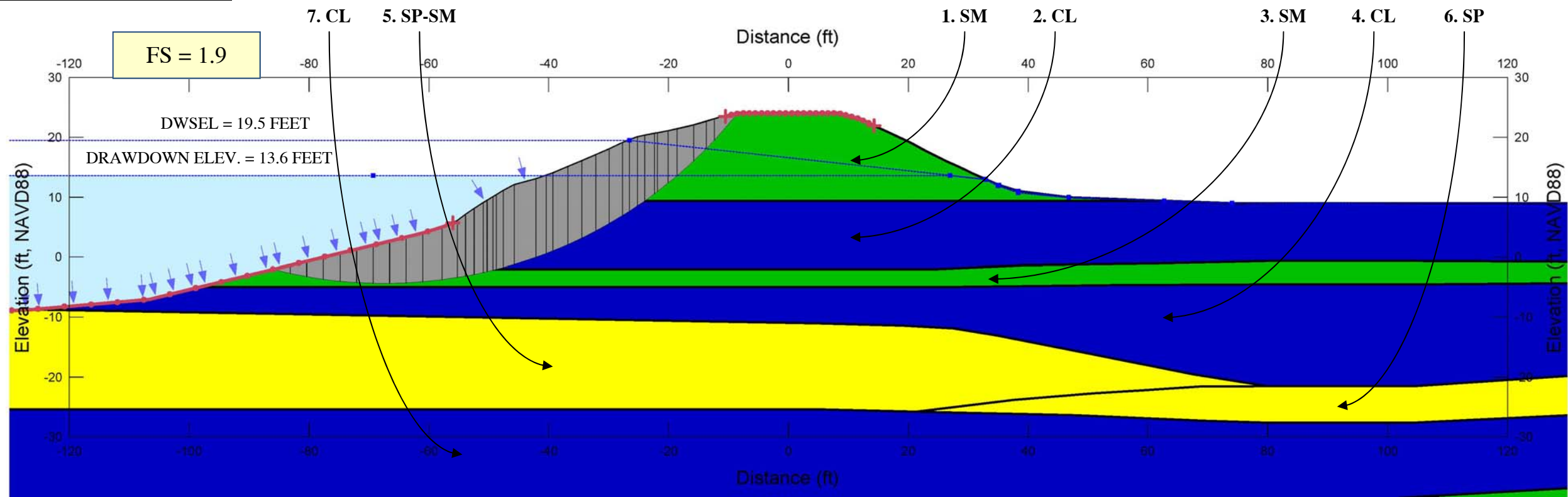
SEEPAGE ANALYSIS  
 REACH D2C - STA 259+00  
 RECLAMATION DISTRICT NO. 17  
 SAN JOAQUIN COUNTY, CALIFORNIA

PROJECT NO.: 5747.005.000	
SCALE:	NO SCALE
DRAWN BY:	ZR
CHECKED BY:	NS

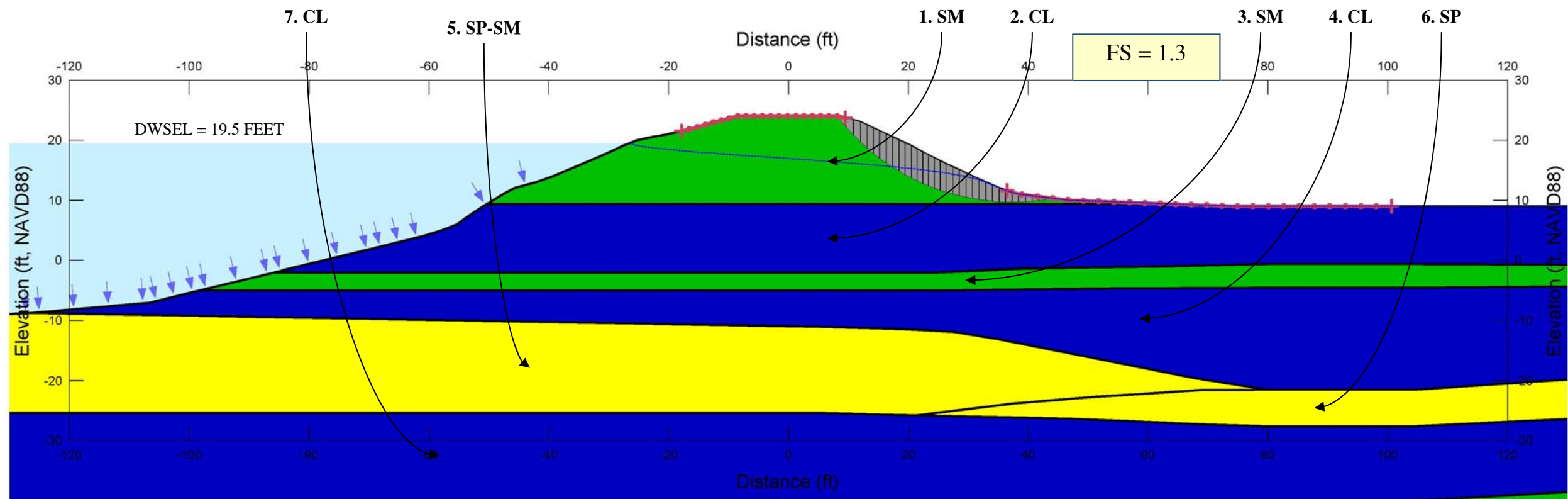
FIGURE NO.  
**E-17-C**

COPYRIGHT © 2014 BY ENGEO INCORPORATED. THIS DOCUMENT MAY NOT BE REPRODUCED IN WHOLE OR IN PART BY ANY MEANS WHATSOEVER, NOR MAY IT BE QUOTED OR EXCERPTED WITHOUT THE EXPRESS WRITTEN CONSENT OF ENGEO INCORPORATED.

### WATERSIDE RAPID DRAWDOWN



### LANDSIDE STEADY STATE SEEPAGE - 200 YEAR



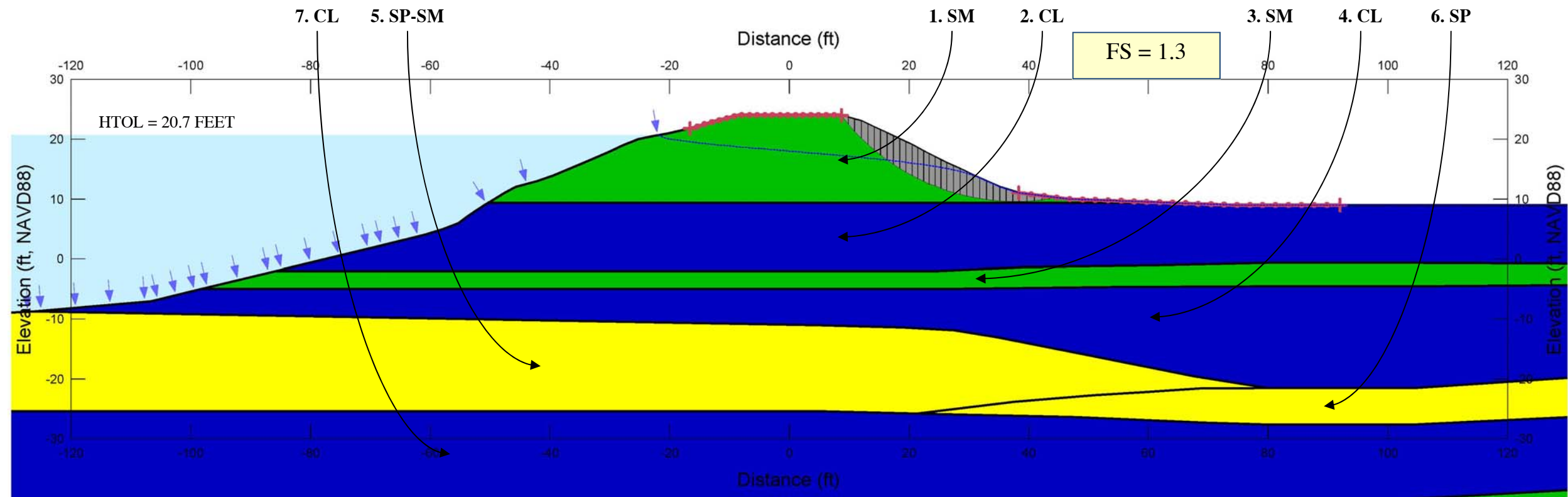
STATIC SLOPE STABILITY ANALYSIS  
REACH D2C - STA 259+00  
RECLAMATION DISTRICT NO. 17  
SAN JOAQUIN COUNTY, CALIFORNIA

PROJECT NO.: 5747.005.000	
SCALE:	NO SCALE
DRAWN BY:	ZR
CHECKED BY:	NS

FIGURE NO.  
E-17-D

COPYRIGHT © 2014 BY ENGEO INCORPORATED. THIS DOCUMENT MAY NOT BE REPRODUCED IN WHOLE OR IN PART BY ANY MEANS WHATSOEVER WITHOUT THE EXPRESS WRITTEN CONSENT OF ENGEO INCORPORATED.

### LANDSIDE STEADY STATE SEEPAGE - HTOL



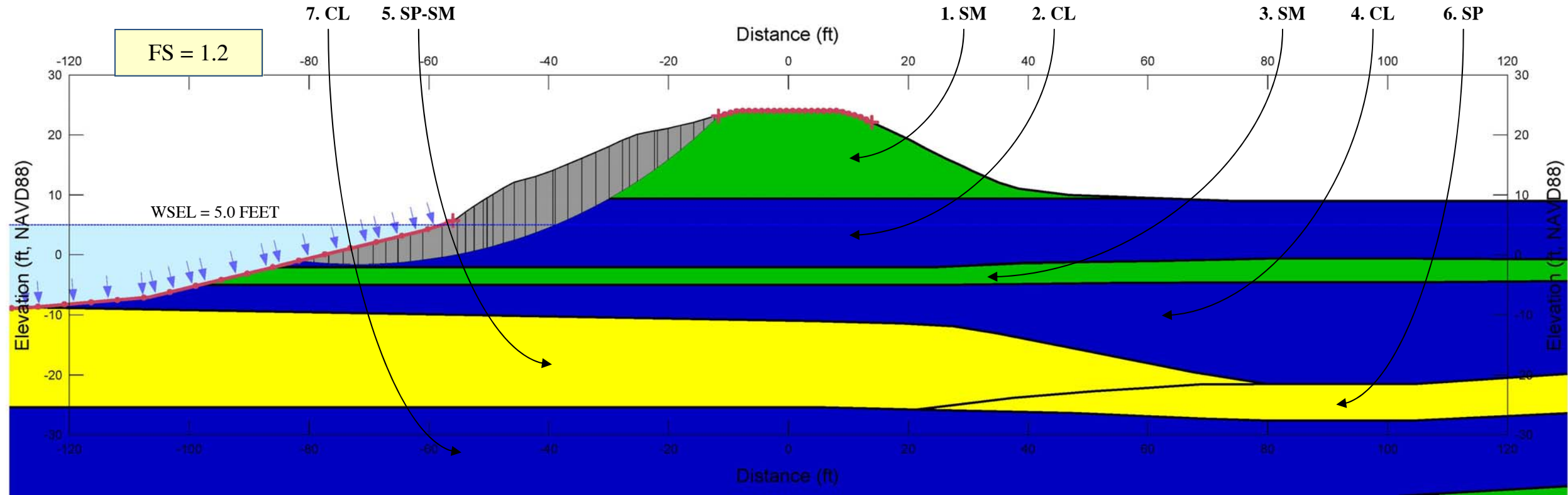
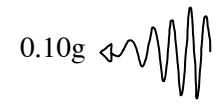
STATIC SLOPE STABILITY ANALYSIS  
 REACH D2C - STA 259+00  
 RECLAMATION DISTRICT NO. 17  
 SAN JOAQUIN COUNTY, CALIFORNIA

PROJECT NO.: 5747.005.000	
SCALE:	NO SCALE
DRAWN BY: ZR	CHECKED BY: NS

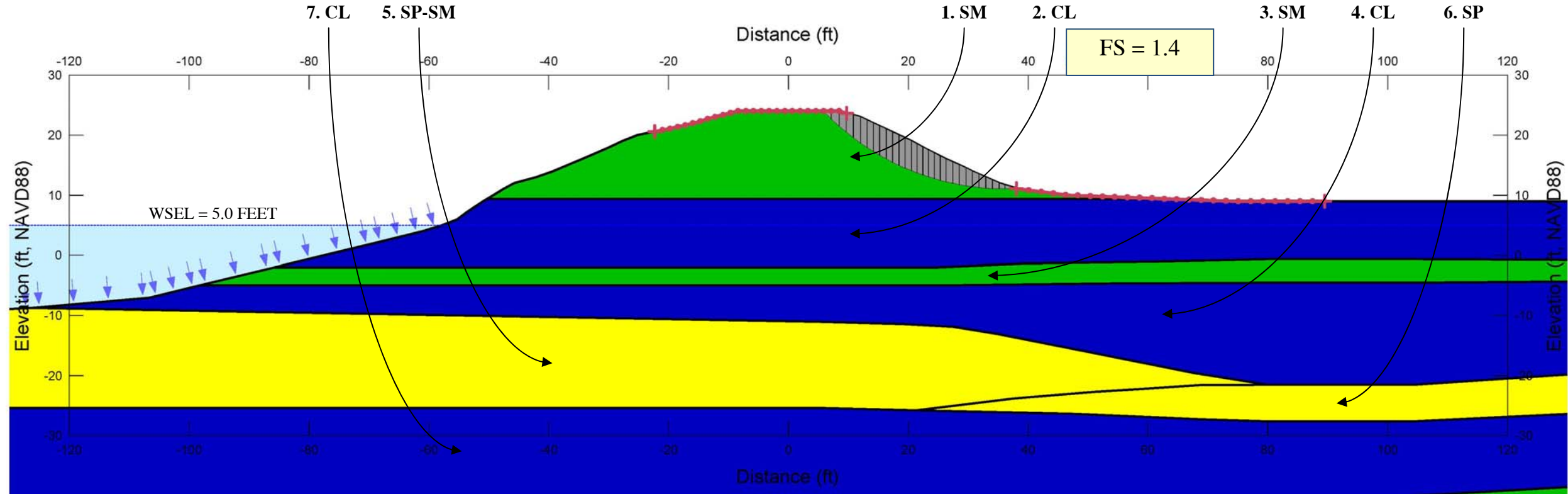
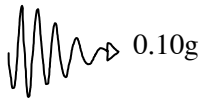
FIGURE NO.  
**E-17-E**

COPYRIGHT © 2014 BY ENGEO INCORPORATED. THIS DOCUMENT MAY NOT BE REPRODUCED IN WHOLE OR IN PART BY ANY MEANS WHATSOEVER, NOR MAY IT BE QUOTED OR EXCERPTED WITHOUT THE EXPRESS WRITTEN CONSENT OF ENGEO INCORPORATED.

### WATERSIDE SEISMIC



### LANDSIDE SEISMIC



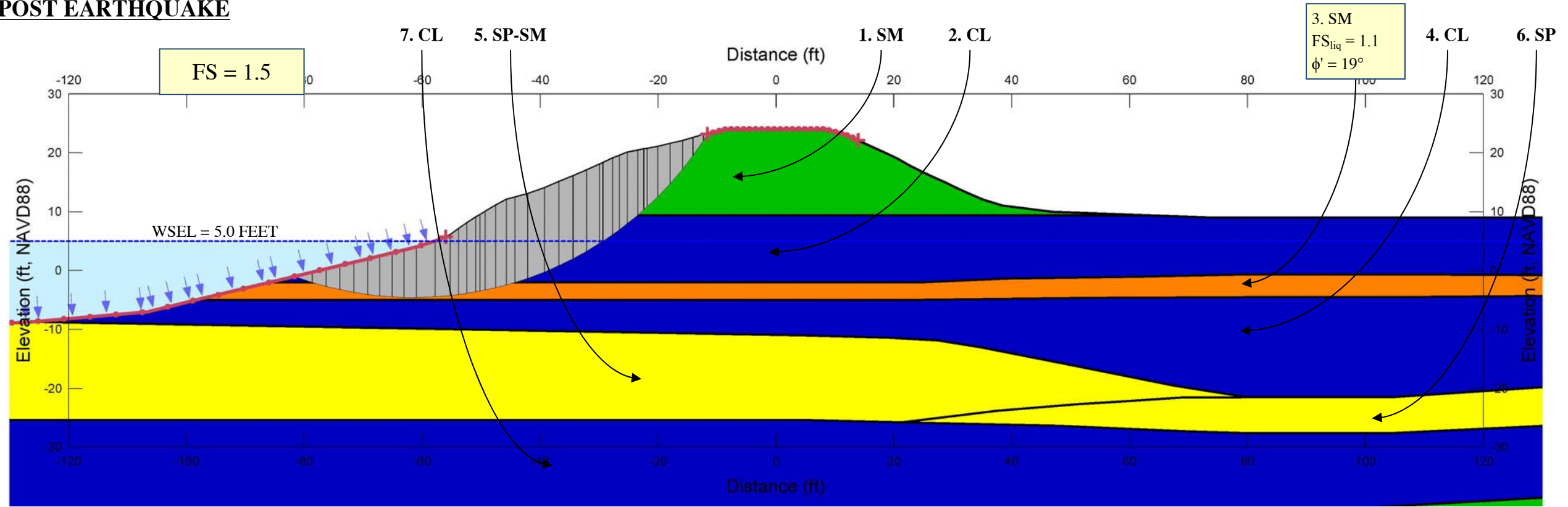
SEISMIC SLOPE STABILITY ANALYSIS  
 REACH D2C - STA 259+00  
 RECLAMATION DISTRICT NO. 17  
 SAN JOAQUIN COUNTY, CALIFORNIA

PROJECT NO.: 5747.005.000	
SCALE:	NO SCALE
DRAWN BY: ZR	CHECKED BY: NS

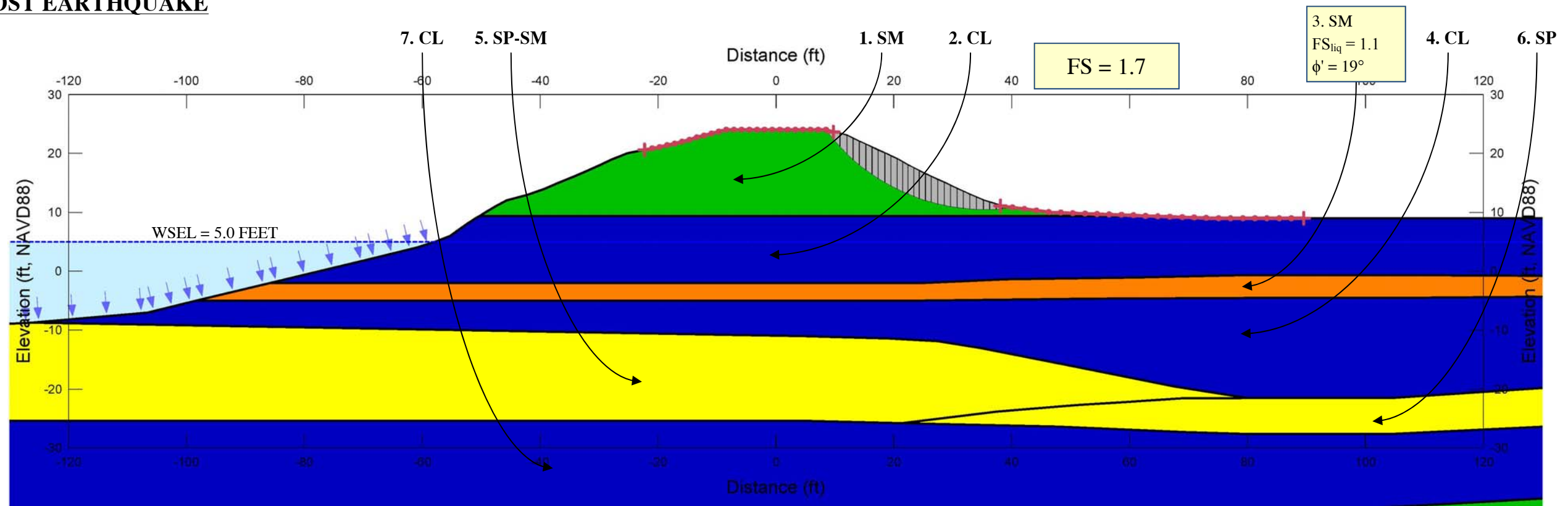
FIGURE NO.  
**E-17-F**

COPYRIGHT © 2014 BY ENGEO INCORPORATED. THIS DOCUMENT MAY NOT BE REPRODUCED IN WHOLE OR IN PART BY ANY MEANS WHATSOEVER, NOR MAY IT BE QUOTED OR EXCERPTED WITHOUT THE EXPRESS WRITTEN CONSENT OF ENGEO INCORPORATED.

### WATERSIDE POST EARTHQUAKE



### LANDSIDE POST EARTHQUAKE



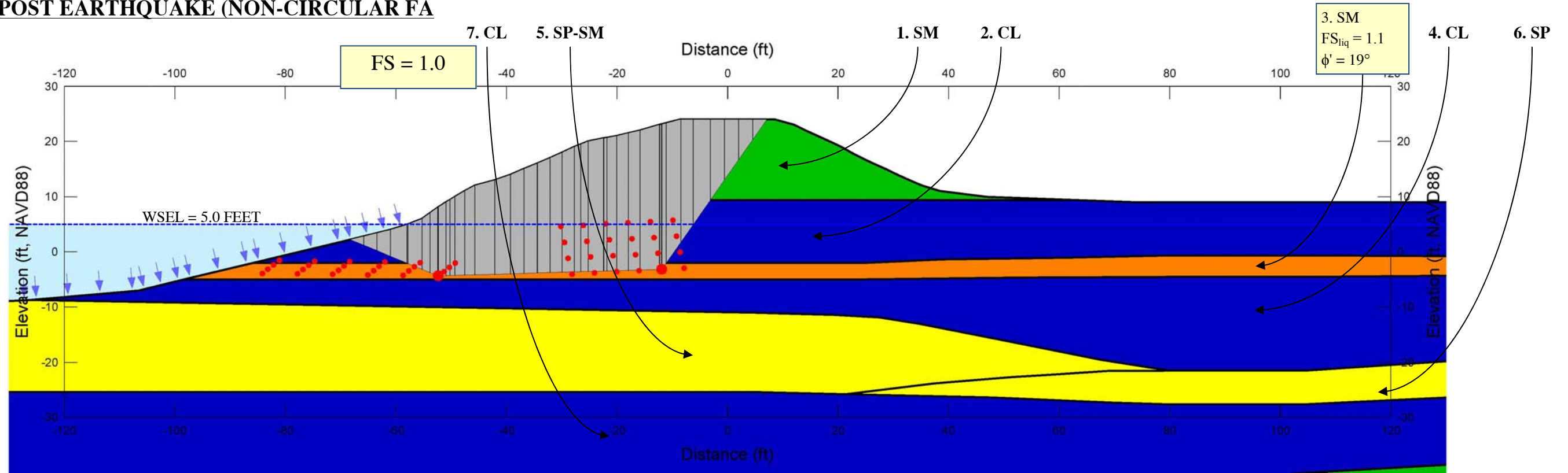
SEISMIC SLOPE STABILITY ANALYSIS  
REACH D2C - STA 259+00  
RECLAMATION DISTRICT NO. 17  
SAN JOAQUIN COUNTY, CALIFORNIA

PROJECT NO.: 5747.005.000	FIGURE NO.
SCALE: NO SCALE	E-17-G
DRAWN BY: BA	

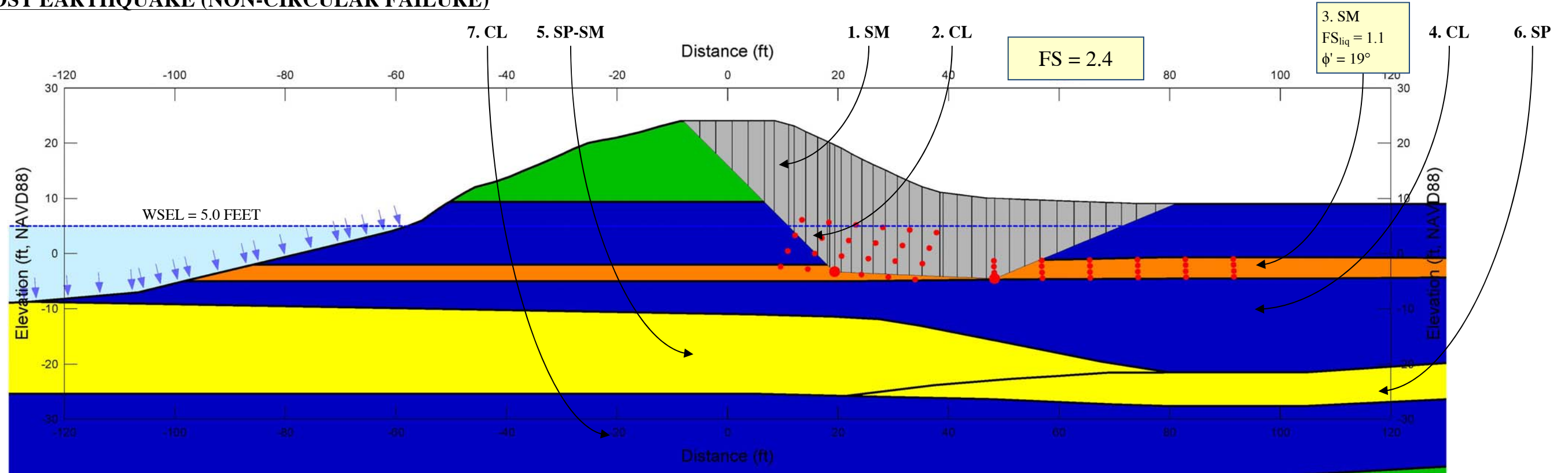


COPYRIGHT © 2014 BY ENGEO INCORPORATED. THIS DOCUMENT MAY NOT BE REPRODUCED IN WHOLE OR IN PART BY ANY MEANS WHATSOEVER WITHOUT THE EXPRESS WRITTEN CONSENT OF ENGEO INCORPORATED.

**WATERSIDE POST EARTHQUAKE (NON-CIRCULAR FA)**



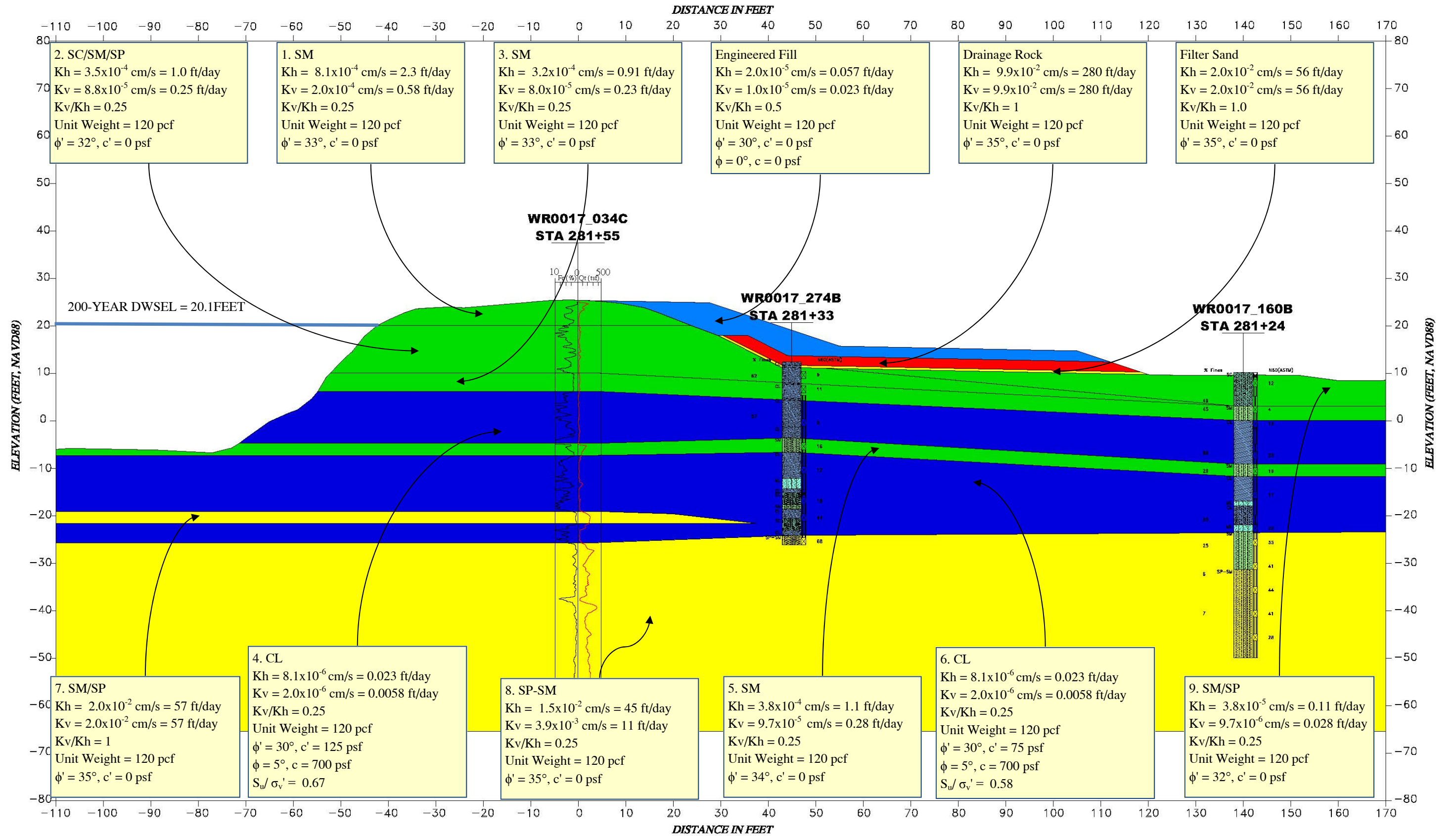
**LANDSIDE POST EARTHQUAKE (NON-CIRCULAR FAILURE)**



	SEISMIC SLOPE STABILITY ANALYSIS REACH D2C - STA 259+00 RECLAMATION DISTRICT NO. 17 SAN JOAQUIN COUNTY, CALIFORNIA		PROJECT NO.: 5747.005.000	FIGURE NO. E-17-H
			SCALE: NO SCALE	
			DRAWN BY: BA	CHECKED BY: CC

# WATERSIDE

# LANDSIDE



COPYRIGHT © 2014 BY ENGEO INCORPORATED. THIS DOCUMENT MAY NOT BE REPRODUCED IN WHOLE OR IN PART BY ANY MEANS WHATSOEVER, NOR MAY IT BE QUOTED OR EXCERPTED WITHOUT THE EXPRESS WRITTEN CONSENT OF ENGEO INCORPORATED.



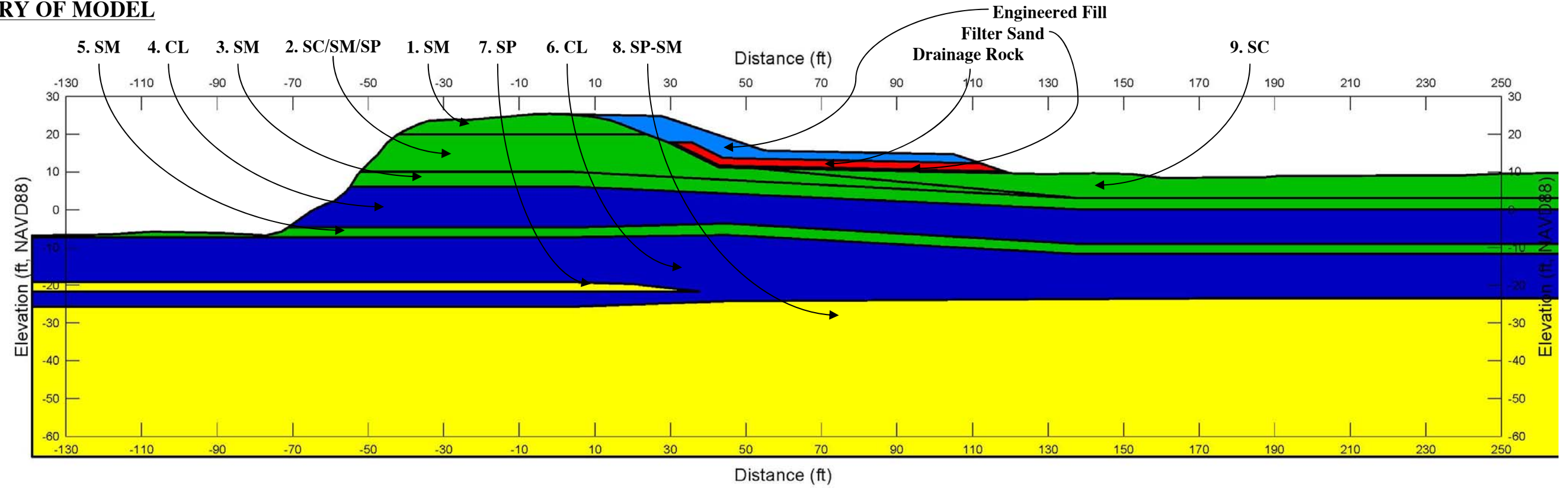
**CROSS SECTION & MATERIAL PARAMETERS**  
 REACH E1A - STA 281+41 WITH BERM  
 RECLAMATION DISTRICT NO. 17  
 SAN JOAQUIN COUNTY, CALIFORNIA

PROJECT NO.: 5747.005.000	
SCALE:	NO SCALE
DRAWN BY:	ZH
CHECKED BY:	NS

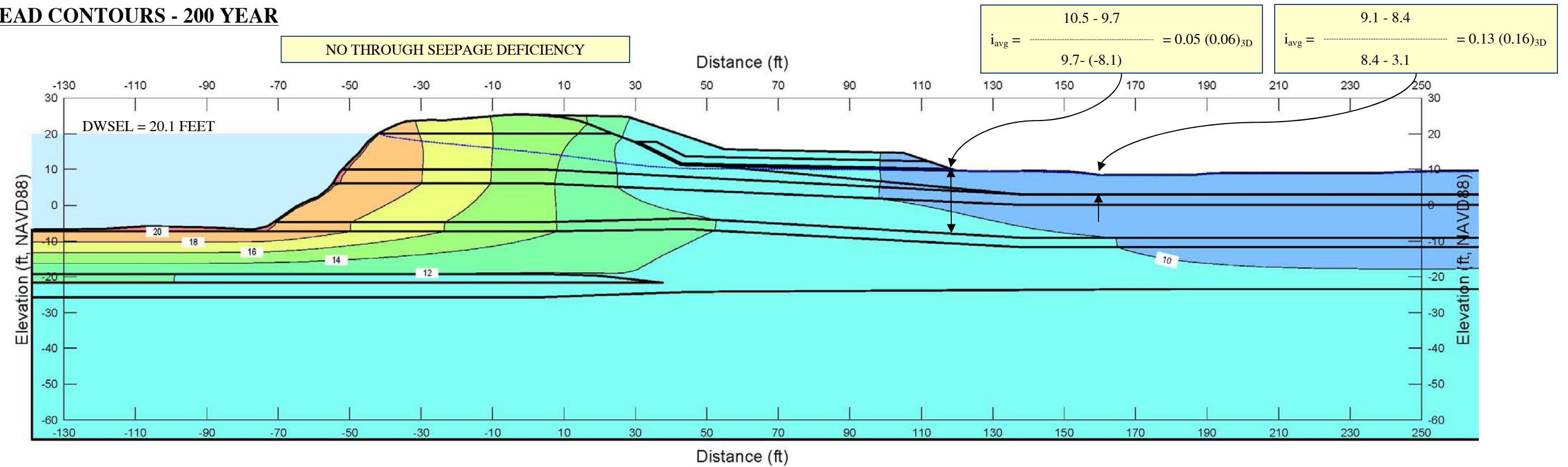
FIGURE NO.  
**E-18-A**

COPYRIGHT © 2014 BY ENGEO INCORPORATED. THIS DOCUMENT MAY NOT BE REPRODUCED IN WHOLE OR IN PART BY ANY MEANS WHATSOEVER, NOR MAY IT BE QUOTED OR EXCERPTED WITHOUT THE EXPRESS WRITTEN CONSENT OF ENGEO INCORPORATED.

### GEOMETRY OF MODEL



### TOTAL HEAD CONTOURS - 200 YEAR



Note: 3D seepage effects are accounted for.



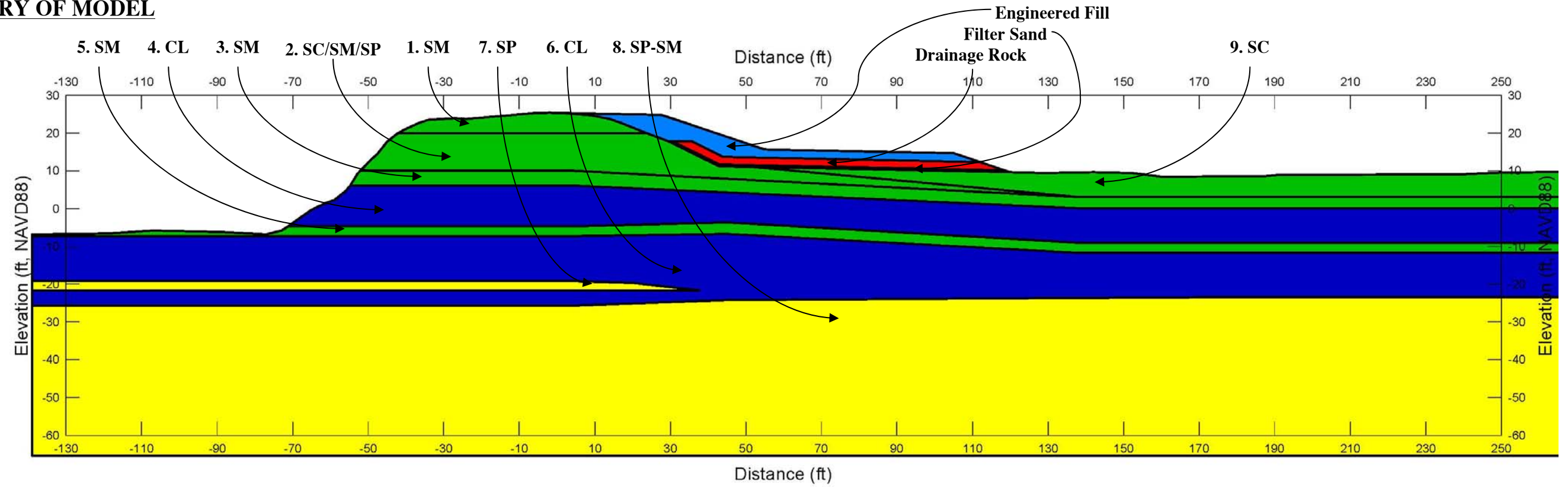
SEEPAGE ANALYSIS  
 REACH E1A - STA 281+41 WITH BERM  
 RECLAMATION DISTRICT NO. 17  
 SAN JOAQUIN COUNTY, CALIFORNIA

PROJECT NO.: 5747.005.000  
 SCALE: NO SCALE  
 DRAWN BY: ZR CHECKED BY: NS

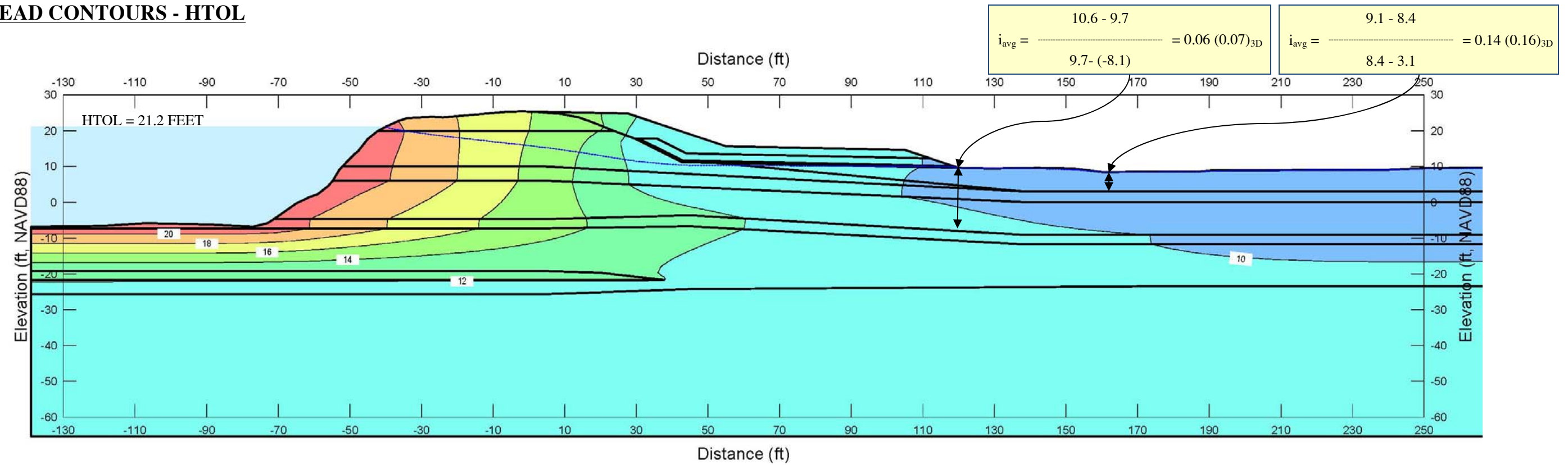
FIGURE NO.  
**E-18-B**

COPYRIGHT © 2014 BY ENGEO INCORPORATED. THIS DOCUMENT MAY NOT BE REPRODUCED IN WHOLE OR IN PART BY ANY MEANS WHATSOEVER, NOR MAY IT BE QUOTED OR EXCERPTED WITHOUT THE EXPRESS WRITTEN CONSENT OF ENGEO INCORPORATED.

### GEOMETRY OF MODEL



### TOTAL HEAD CONTOURS - HTOL



Note: 3D seepage effects are accounted for.



SEEPAGE ANALYSIS  
REACH E1A - STA 281+41 WITH BERM  
RECLAMATION DISTRICT NO. 17  
SAN JOAQUIN COUNTY, CALIFORNIA

PROJECT NO.: 5747.005.000

SCALE: NO SCALE

DRAWN BY: ZR

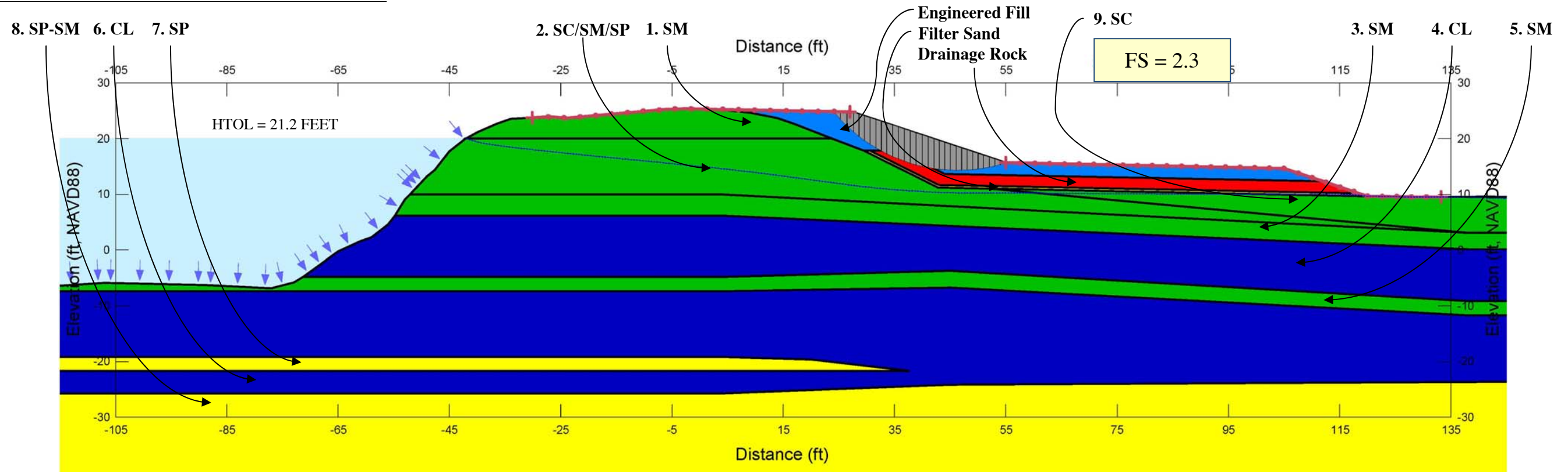
CHECKED BY: NS

FIGURE NO.

E-18-C

COPYRIGHT © 2014 BY ENGEO INCORPORATED. THIS DOCUMENT MAY NOT BE REPRODUCED IN WHOLE OR IN PART BY ANY MEANS WHATSOEVER WITHOUT THE EXPRESS WRITTEN CONSENT OF ENGEO INCORPORATED.

### LANDSIDE STEADY STATE SEEPAGE - 200 YR



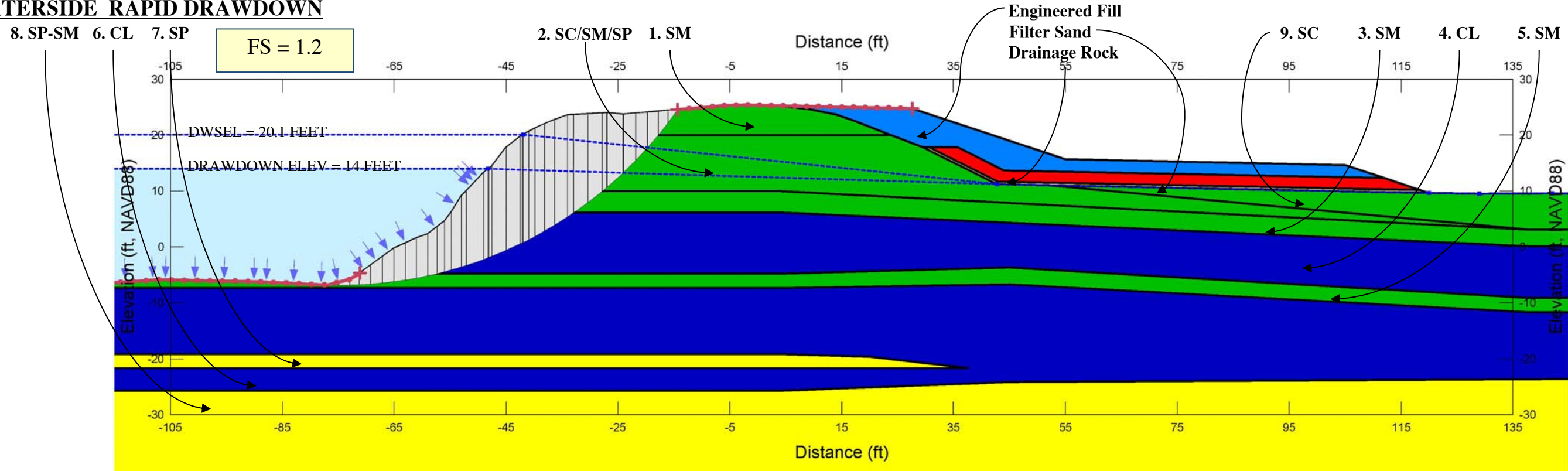
STATIC SLOPE STABILITY ANALYSIS  
 REACH E1A - STA 281+41 WITH BERM  
 RECLAMATION DISTRICT NO. 17  
 SAN JOAQUIN COUNTY, CALIFORNIA

PROJECT NO.: 5747.005.000	
SCALE:	NO SCALE
DRAWN BY: ZR	CHECKED BY: NS

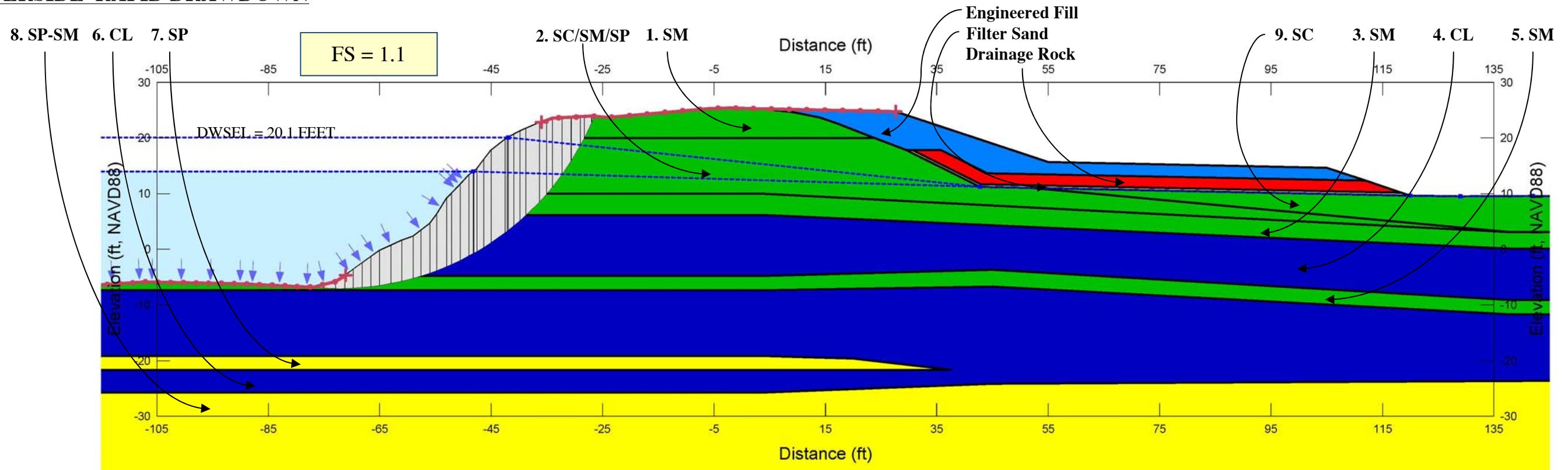
FIGURE NO.  
**E-18-D**

COPYRIGHT © 2014 BY ENGEO INCORPORATED. THIS DOCUMENT MAY NOT BE REPRODUCED IN WHOLE OR IN PART BY ANY MEANS WHATSOEVER, NOR MAY IT BE QUOTED OR EXCERPTED WITHOUT THE EXPRESS WRITTEN CONSENT OF ENGEO INCORPORATED.

### WATERSIDE RAPID DRAWDOWN



### WATERSIDE RAPID DRAWDOWN



STATIC SLOPE STABILITY ANALYSIS  
REACH E1A - STA 281+41 WITH BERM  
RECLAMATION DISTRICT NO. 17  
SAN JOAQUIN COUNTY, CALIFORNIA

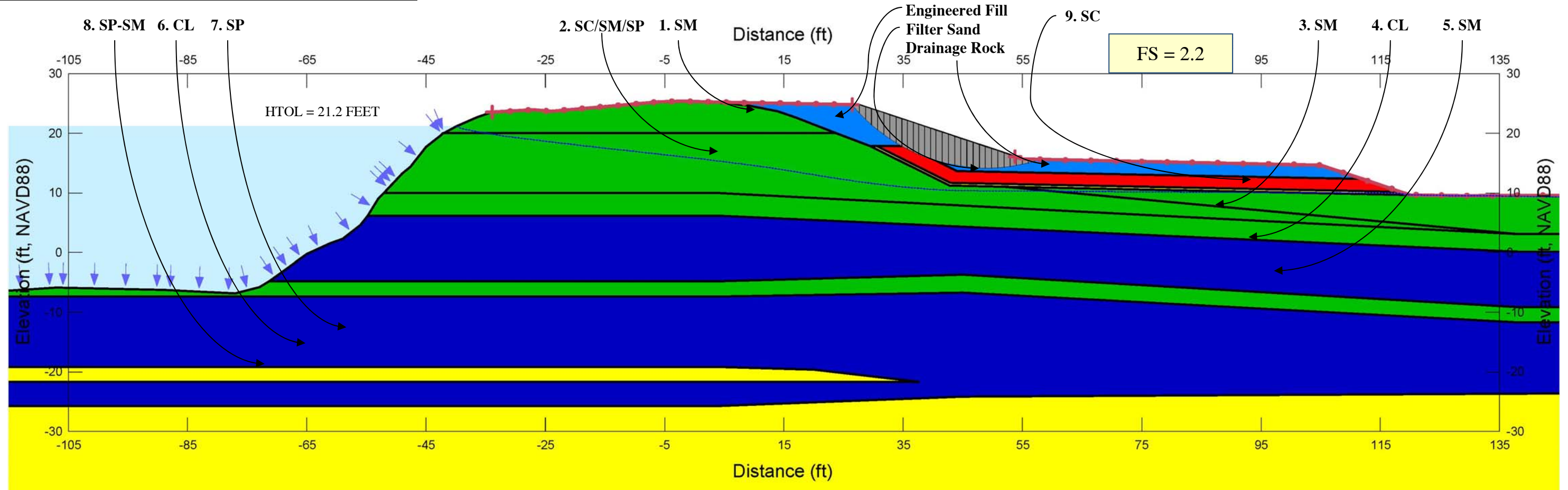
PROJECT NO.: 5747.005.000	
SCALE:	NO SCALE
DRAWN BY:	ZR
CHECKED BY:	NS

FIGURE NO.

E-18-E

COPYRIGHT © 2014 BY ENGEO INCORPORATED. THIS DOCUMENT MAY NOT BE REPRODUCED IN WHOLE OR IN PART BY ANY MEANS WHATSOEVER WITHOUT THE EXPRESS WRITTEN CONSENT OF ENGEO INCORPORATED.

### LANDSIDE STEADY STATE SEEPAGE - HTOL



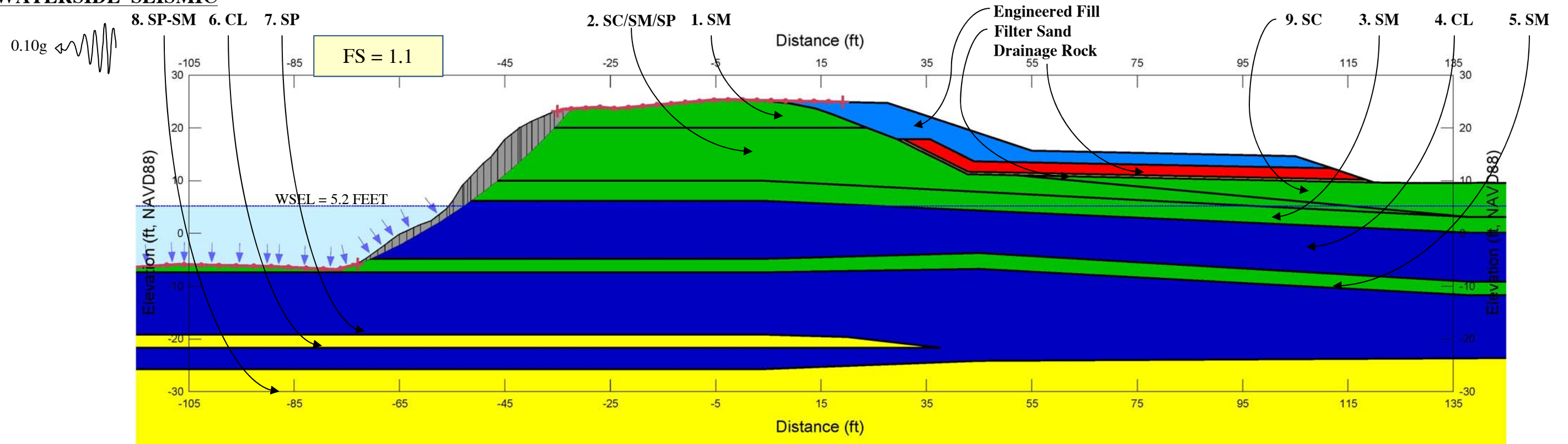
STATIC SLOPE STABILITY ANALYSIS  
 REACH E1A - STA 281+41 WITH BERM  
 RECLAMATION DISTRICT NO. 17  
 SAN JOAQUIN COUNTY, CALIFORNIA

PROJECT NO.: 5747.005.000	
SCALE:	NO SCALE
DRAWN BY: ZR	CHECKED BY: NS

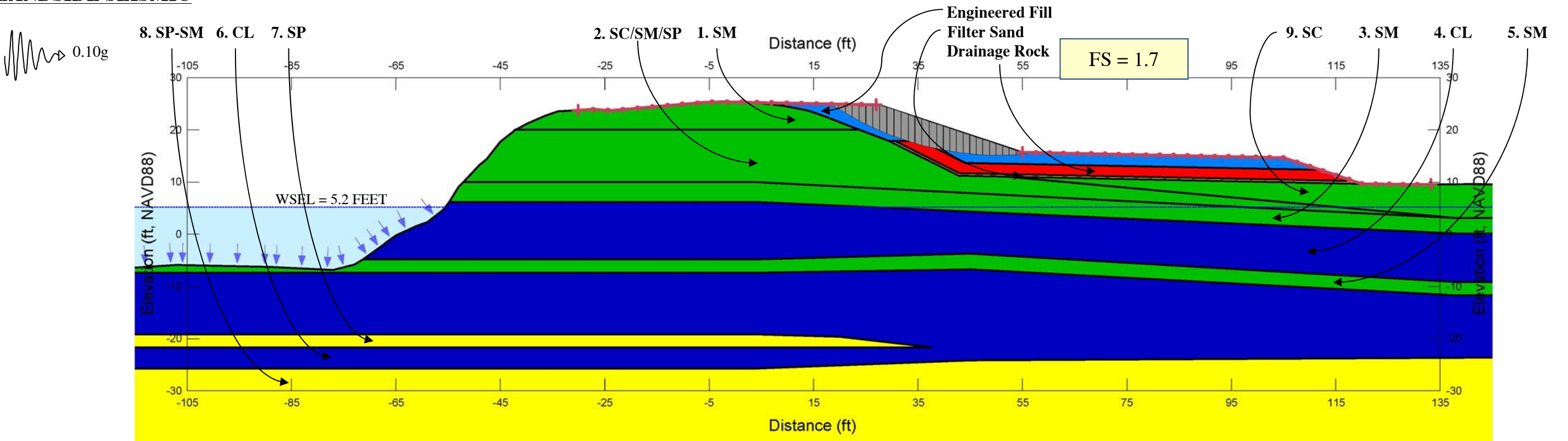
FIGURE NO.  
**E-18-F**

COPYRIGHT © 2014 BY ENGEO INCORPORATED. THIS DOCUMENT MAY NOT BE REPRODUCED IN WHOLE OR IN PART BY ANY MEANS WHATSOEVER, NOR MAY IT BE QUOTED OR EXCERPTED WITHOUT THE EXPRESS WRITTEN CONSENT OF ENGEO INCORPORATED.

### WATERSIDE SEISMIC



### LANDSIDE SEISMIC



SEISMIC SLOPE STABILITY ANALYSIS  
REACH E1A - STA 281+41 WITH BERM  
RECLAMATION DISTRICT NO. 17  
SAN JOAQUIN COUNTY, CALIFORNIA

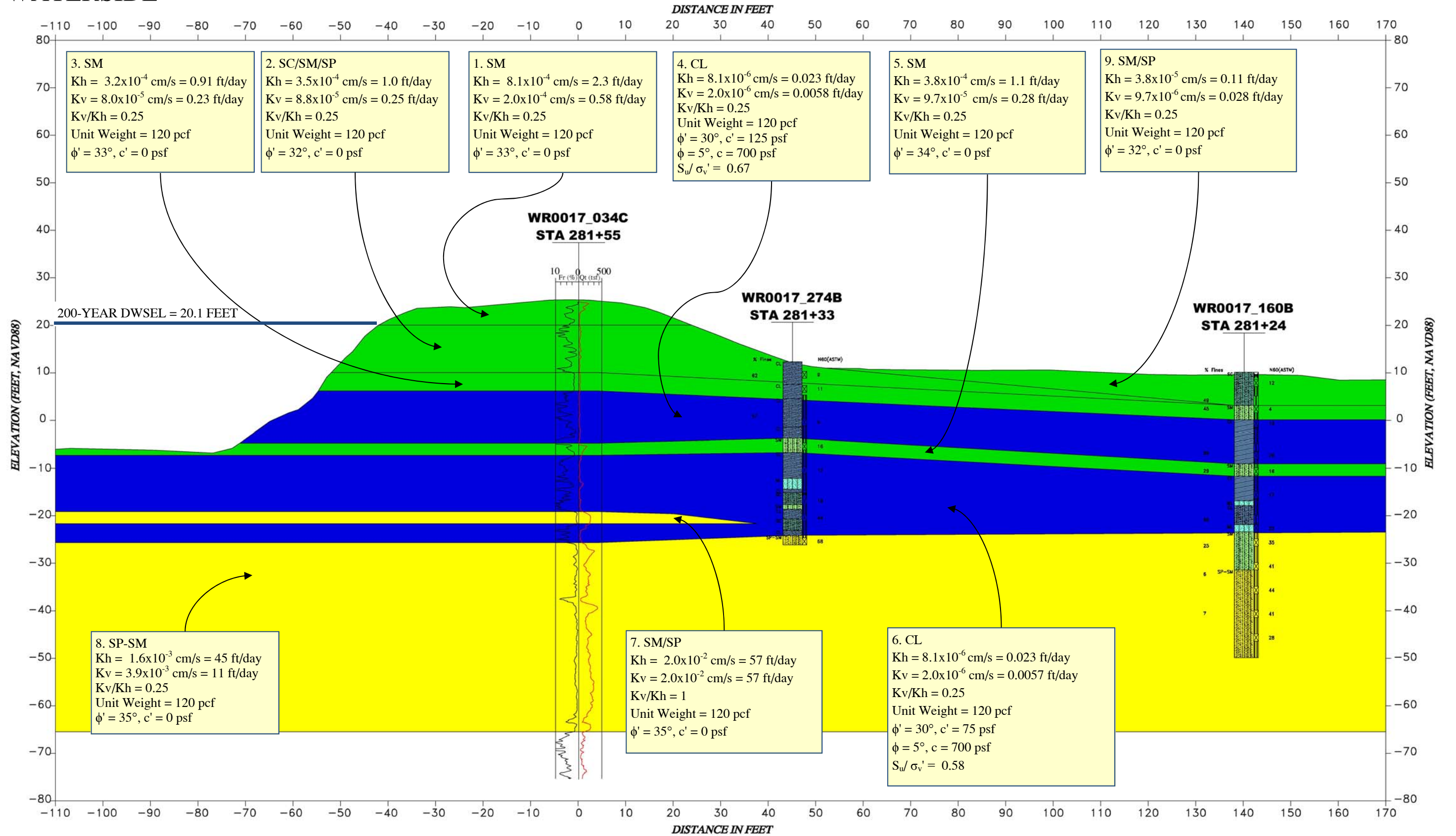
PROJECT NO.: 5747.005.000	
SCALE:	NO SCALE
DRAWN BY:	ZR
CHECKED BY:	NS

FIGURE NO.  
**E-18-G**



# WATERSIDE

# LANDSIDE



COPYRIGHT © 2014 BY ENGEO INCORPORATED. THIS DOCUMENT MAY NOT BE REPRODUCED IN WHOLE OR IN PART BY ANY MEANS WHATSOEVER, NOR MAY IT BE QUOTED OR EXCERPTED WITHOUT THE EXPRESS WRITTEN CONSENT OF ENGEO INCORPORATED.



**CROSS SECTION & MATERIAL PARAMETERS**  
 REACH E1B- STA 281+41 WITHOUT BERM  
 RECLAMATION DISTRICT NO. 17  
 SAN JOAQUIN COUNTY, CALIFORNIA

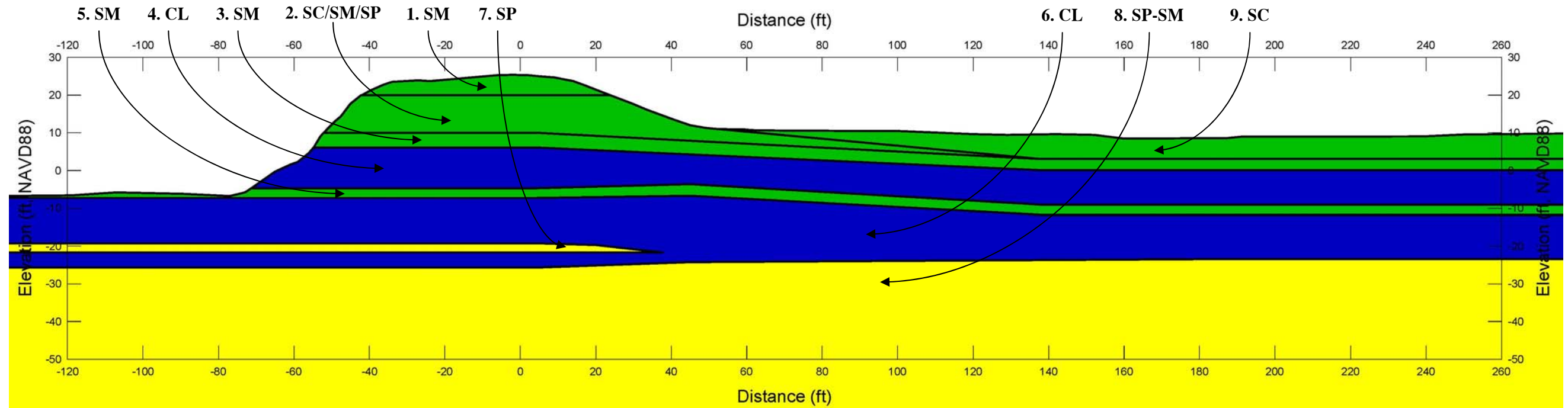
PROJECT NO.: 5747.005.000	
SCALE:	NO SCALE
DRAWN BY:	ZR
CHECKED BY:	JB

FIGURE NO.

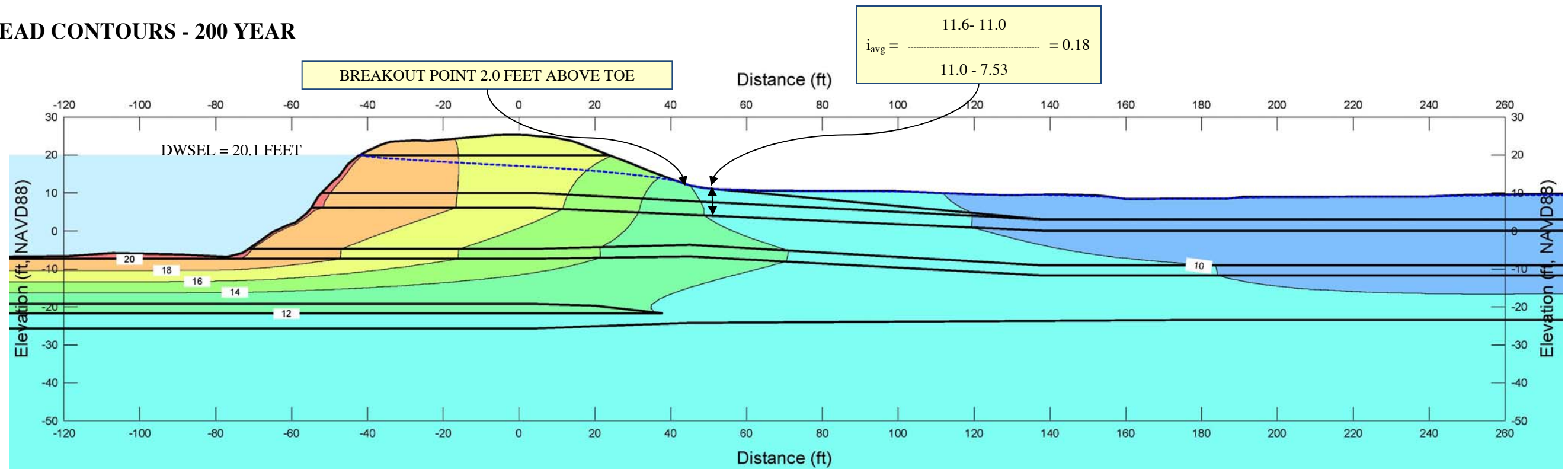
E-19-A

COPYRIGHT © 2014 BY ENGEO INCORPORATED. THIS DOCUMENT MAY NOT BE REPRODUCED IN WHOLE OR IN PART BY ANY MEANS WHATSOEVER, NOR MAY IT BE QUOTED OR EXCERPTED WITHOUT THE EXPRESS WRITTEN CONSENT OF ENGEO INCORPORATED.

### GEOMETRY OF MODEL



### TOTAL HEAD CONTOURS - 200 YEAR



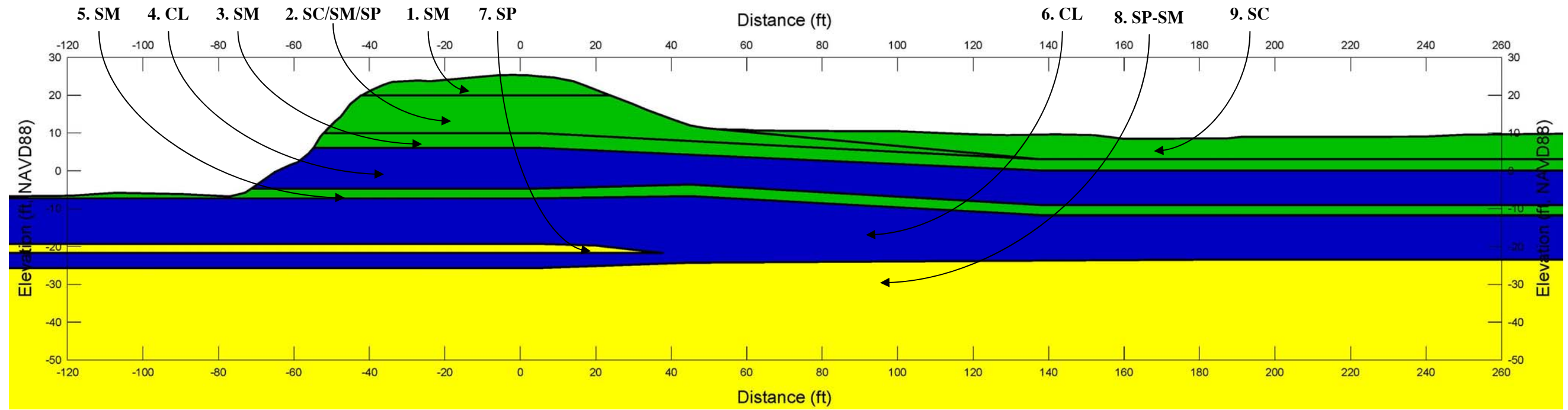
SEEPAGE ANALYSIS  
 REACH E1B- STA 281+41 WITHOUT BERM  
 RECLAMATION DISTRICT NO. 17  
 SAN JOAQUIN COUNTY, CALIFORNIA

PROJECT NO.: 5747.005.000	
SCALE: NO SCALE	
DRAWN BY: BA	CHECKED BY: NS

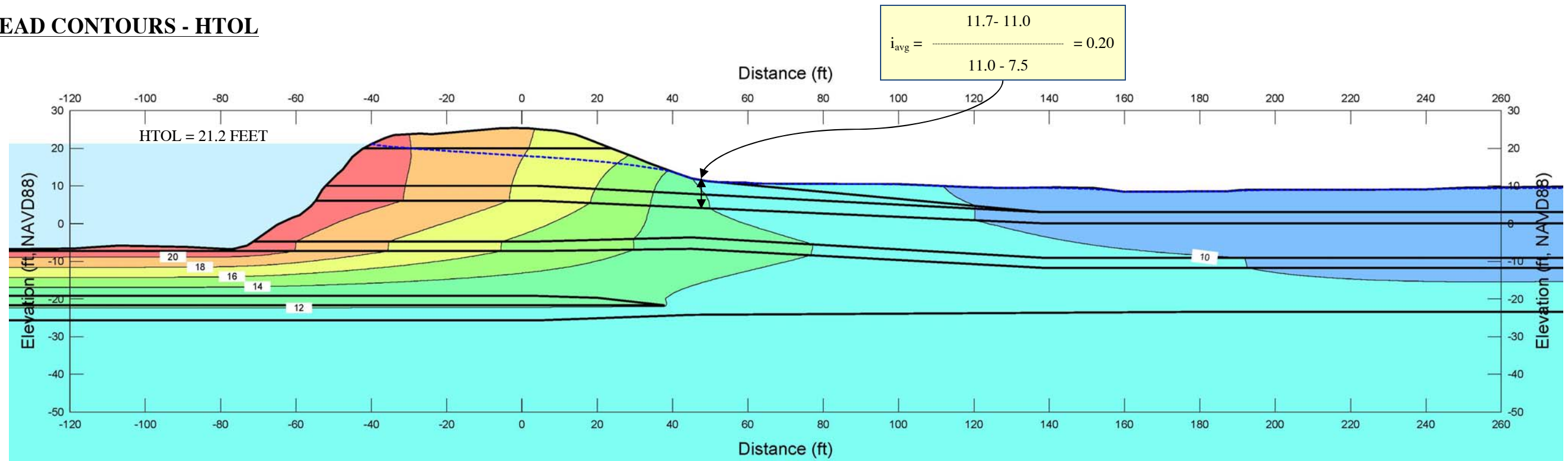
FIGURE NO.  
**E-19-B**

COPYRIGHT © 2014 BY ENGEO INCORPORATED. THIS DOCUMENT MAY NOT BE REPRODUCED IN WHOLE OR IN PART BY ANY MEANS WHATSOEVER, NOR MAY IT BE QUOTED OR EXCERPTED WITHOUT THE EXPRESS WRITTEN CONSENT OF ENGEO INCORPORATED.

### GEOMETRY OF MODEL



### TOTAL HEAD CONTOURS - HTOL



SEEPAGE ANALYSIS  
 REACH E1B- STA 281+41 WITHOUT BERM  
 RECLAMATION DISTRICT NO. 17  
 SAN JOAQUIN COUNTY, CALIFORNIA

PROJECT NO.: 5747.005.000

SCALE: NO SCALE

DRAWN BY: BA

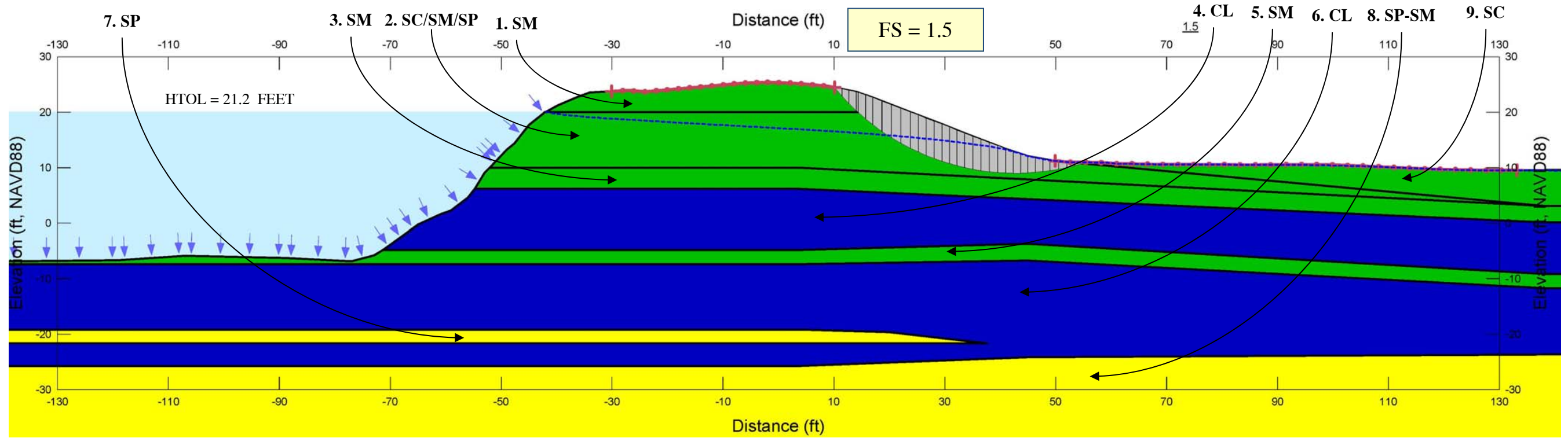
CHECKED BY: NS

FIGURE NO.

E-19-C

COPYRIGHT © 2014 BY ENGEO INCORPORATED. THIS DOCUMENT MAY NOT BE REPRODUCED IN WHOLE OR IN PART BY ANY MEANS WHATSOEVER WITHOUT THE EXPRESS WRITTEN CONSENT OF ENGEO INCORPORATED.

### LANDSIDE STEADY STATE SEEPAGE - 200 YR



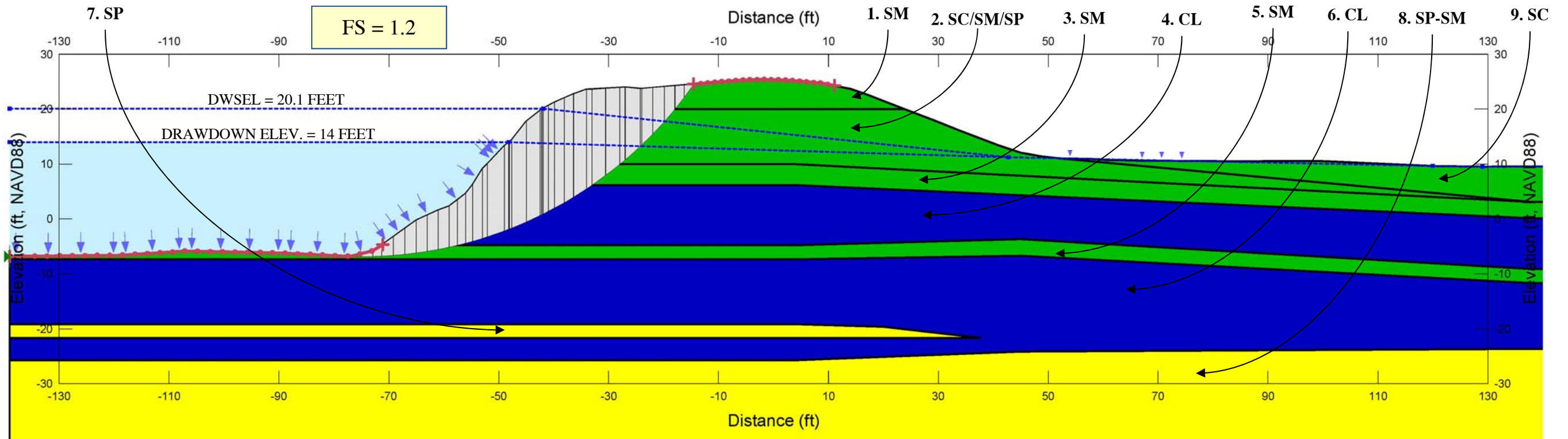
STATIC SLOPE STABILITY ANALYSIS  
 REACH E1B- STA 281+41 WITHOUT BERM  
 RECLAMATION DISTRICT NO. 17  
 SAN JOAQUIN COUNTY, CALIFORNIA

PROJECT NO.: 5747.005.000	
SCALE:	NO SCALE
DRAWN BY:	BA
CHECKED BY:	NS

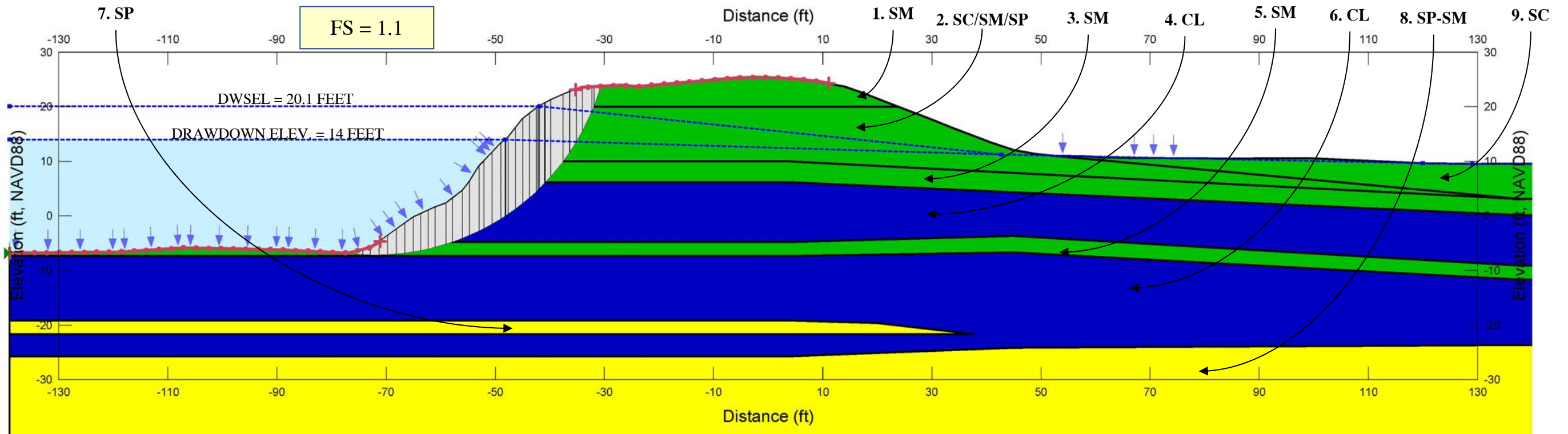
FIGURE NO.  
**E-19-D**

COPYRIGHT © 2014 BY ENGEO INCORPORATED. THIS DOCUMENT MAY NOT BE REPRODUCED IN WHOLE OR IN PART BY ANY MEANS WHATSOEVER, NOR MAY IT BE QUOTED OR EXCERPTED WITHOUT THE EXPRESS WRITTEN CONSENT OF ENGEO INCORPORATED.

### WATERSIDE RAPID DRAWDOWN



### WATERSIDE RAPID DRAWDOWN



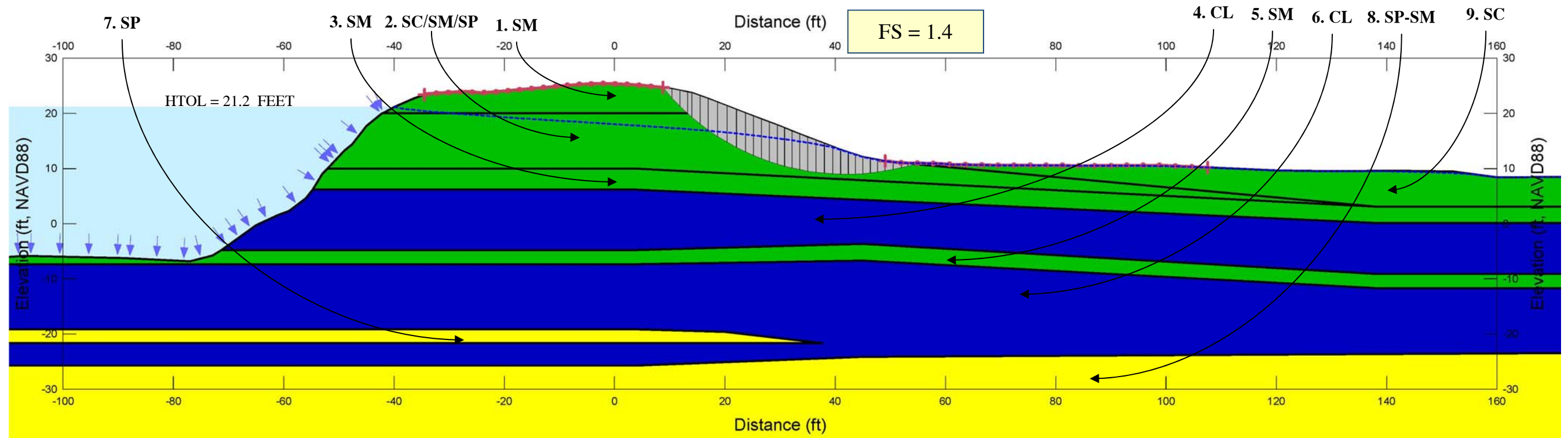
STATIC SLOPE STABILITY ANALYSIS  
REACH E1B- STA 281+41 WITHOUT BERM  
RECLAMATION DISTRICT NO. 17  
SAN JOAQUIN COUNTY, CALIFORNIA

PROJECT NO.: 5747.005.000
SCALE: NO SCALE
DRAWN BY: BA
CHECKED BY: NS

FIGURE NO.  
E-19-E

COPYRIGHT © 2014 BY ENGEO INCORPORATED. THIS DOCUMENT MAY NOT BE REPRODUCED IN WHOLE OR IN PART BY ANY MEANS WHATSOEVER WITHOUT THE EXPRESS WRITTEN CONSENT OF ENGEO INCORPORATED.

### LANDSIDE STEADY STATE SEEPAGE - HTOL



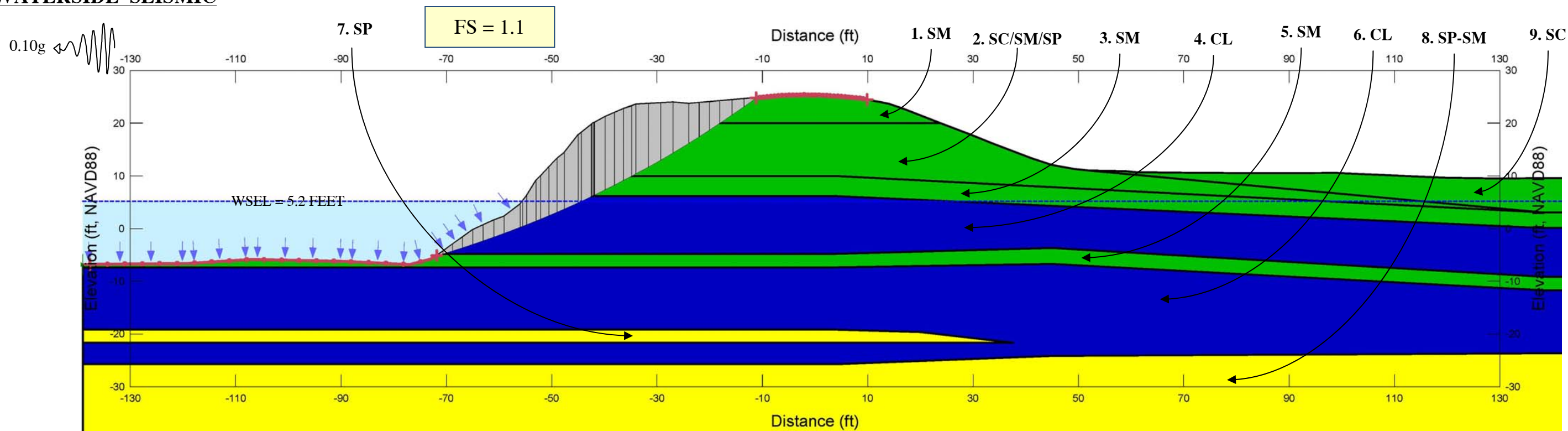
STATIC SLOPE STABILITY ANALYSIS  
 REACH E1B- STA 281+41 WITHOUT BERM  
 RECLAMATION DISTRICT NO. 17  
 SAN JOAQUIN COUNTY, CALIFORNIA

PROJECT NO.: 5747.005.000	
SCALE: NO SCALE	
DRAWN BY: BA	CHECKED BY: NS

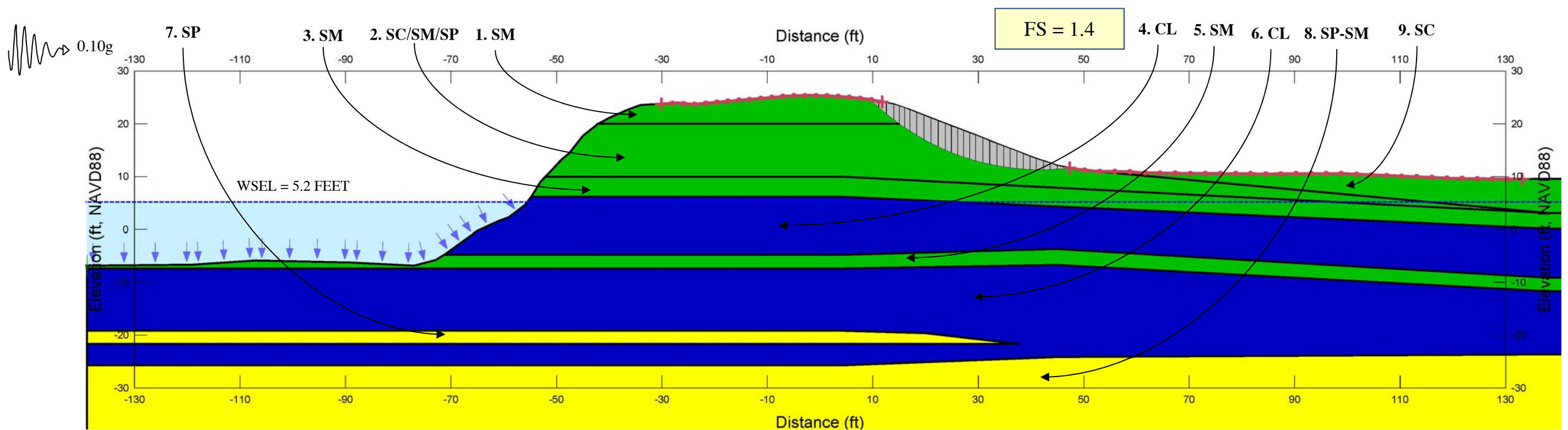
FIGURE NO.  
**E-19-F**

COPYRIGHT © 2014 BY ENGEO INCORPORATED. THIS DOCUMENT MAY NOT BE REPRODUCED IN WHOLE OR IN PART BY ANY MEANS WHATSOEVER, NOR MAY IT BE QUOTED OR EXCERPTED WITHOUT THE EXPRESS WRITTEN CONSENT OF ENGEO INCORPORATED.

### WATERSIDE SEISMIC



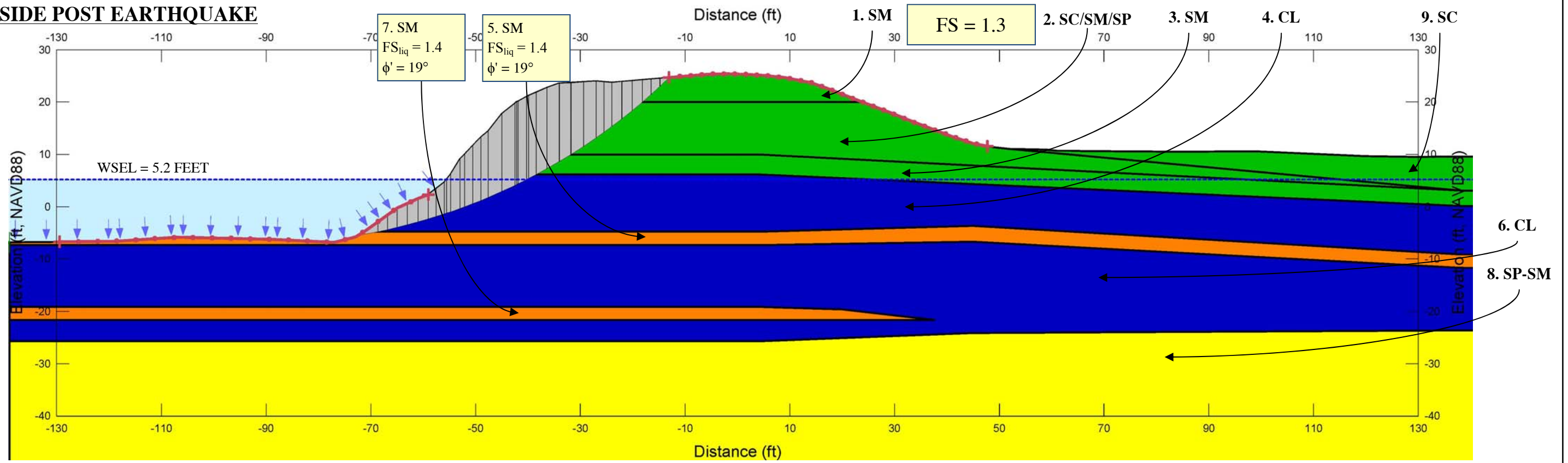
### LANDSIDE SEISMIC



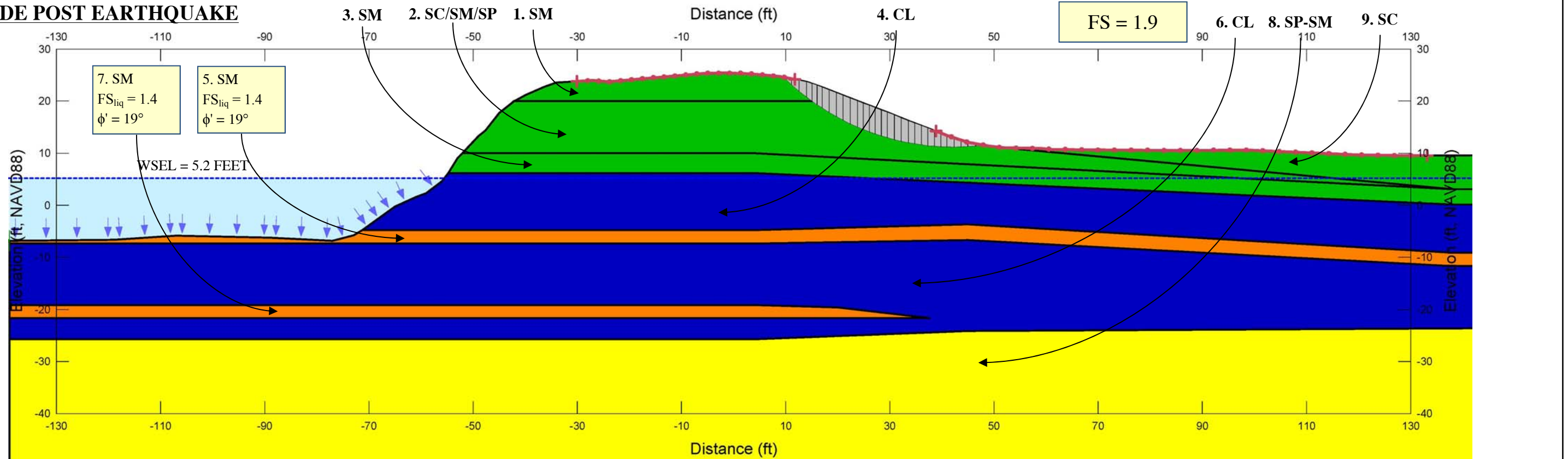
	SEISMIC SLOPE STABILITY ANALYSIS REACH E1B- STA 281+41 WITHOUT BERM RECLAMATION DISTRICT NO. 17 SAN JOAQUIN COUNTY, CALIFORNIA		PROJECT NO.: 5747.005.000	FIGURE NO. <b>E-19-G</b>
			SCALE: NO SCALE	
			DRAWN BY: BA    CHECKED BY: NS	

COPYRIGHT © 2014 BY ENGEO INCORPORATED. THIS DOCUMENT MAY NOT BE REPRODUCED IN WHOLE OR IN PART BY ANY MEANS WHATSOEVER WITHOUT THE EXPRESS WRITTEN CONSENT OF ENGEO INCORPORATED.

### WATERSIDE POST EARTHQUAKE



### LANDSIDE POST EARTHQUAKE



SEISMIC SLOPE STABILITY ANALYSIS  
 REACH E1B- STA 281+41 WITHOUT BERM  
 RECLAMATION DISTRICT NO. 17  
 SAN JOAQUIN COUNTY, CALIFORNIA

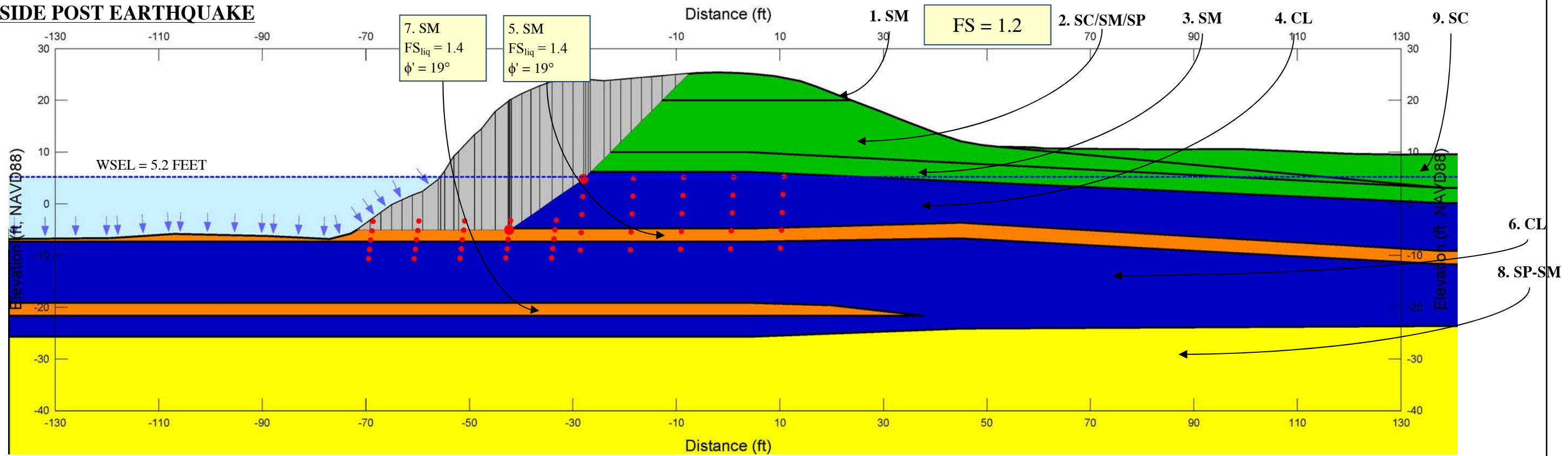
PROJECT NO.: 5747.005.000	
SCALE:	NO SCALE
DRAWN BY:	BA
CHECKED BY:	CC

FIGURE NO.  
**E-19-H**

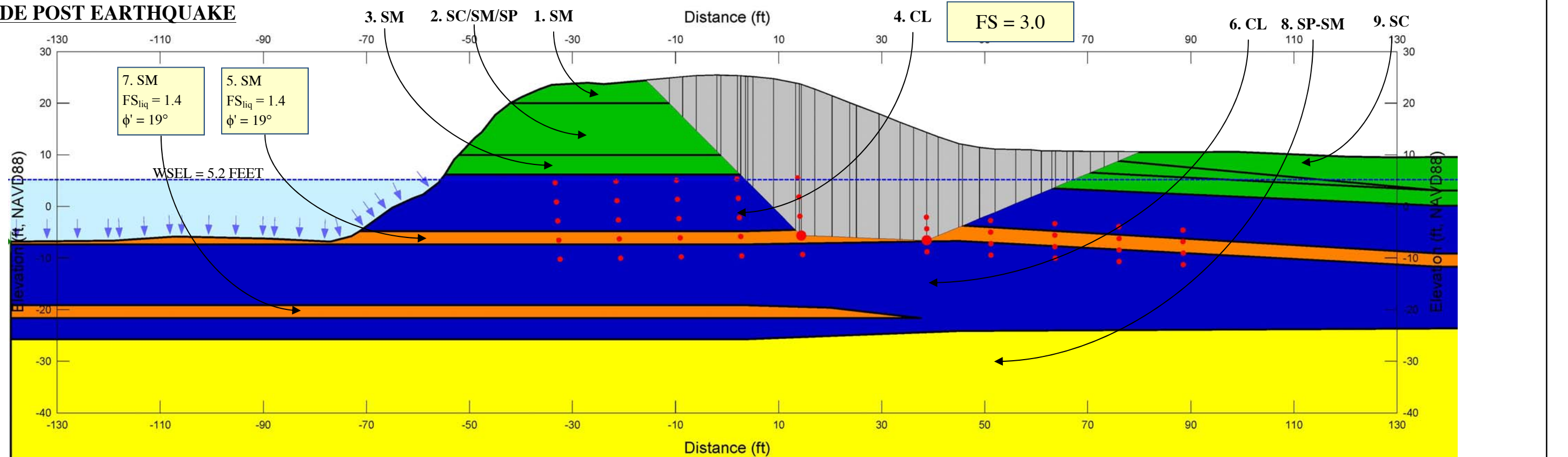


COPYRIGHT © 2014 BY ENGEO INCORPORATED. THIS DOCUMENT MAY NOT BE REPRODUCED IN WHOLE OR IN PART BY ANY MEANS WHATSOEVER WITHOUT THE EXPRESS WRITTEN CONSENT OF ENGEO INCORPORATED.

### WATERSIDE POST EARTHQUAKE



### LANDSIDE POST EARTHQUAKE



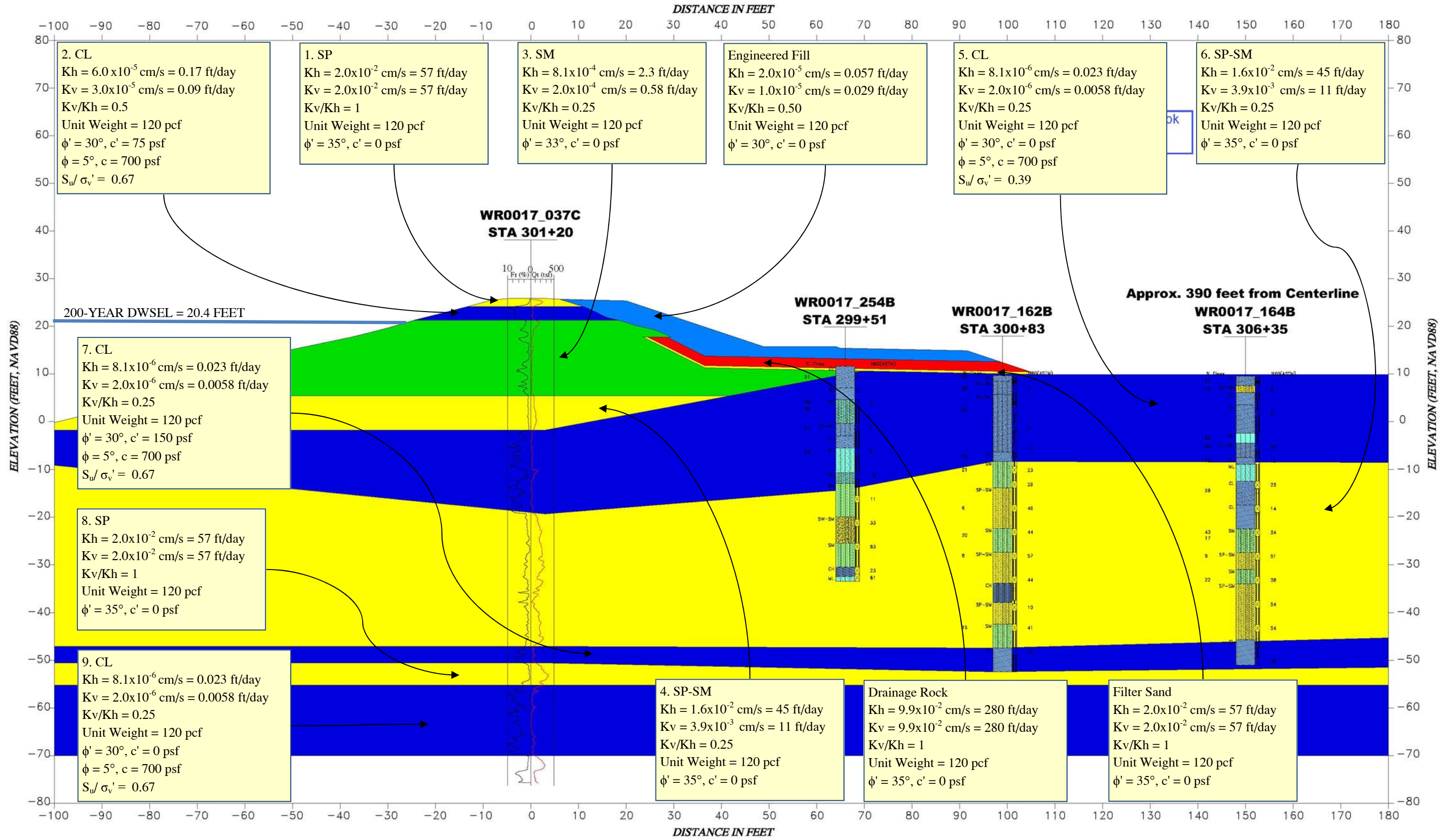
SEISMIC SLOPE STABILITY ANALYSIS  
 REACH E1B- STA 281+41 WITHOUT BERM  
 RECLAMATION DISTRICT NO. 17  
 SAN JOAQUIN COUNTY, CALIFORNIA

PROJECT NO.: 5747.005.000	
SCALE:	NO SCALE
DRAWN BY:	BA
CHECKED BY:	CC

FIGURE NO.  
**E-19-I**

# WATERSIDE

# LANDSIDE



COPYRIGHT © 2014 BY ENGEO INCORPORATED. THIS DOCUMENT MAY NOT BE REPRODUCED IN WHOLE OR IN PART BY ANY MEANS WHATSOEVER, NOR MAY IT BE QUOTED OR EXCERPTED WITHOUT THE EXPRESS WRITTEN CONSENT OF ENGEO INCORPORATED.



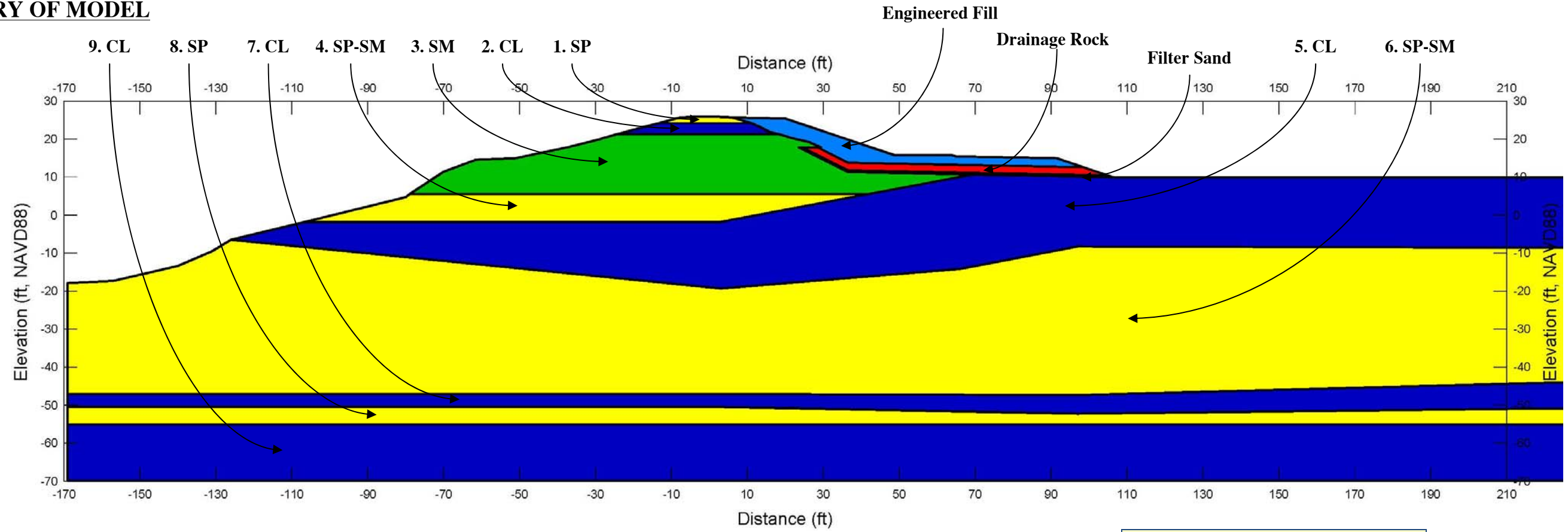
**CROSS SECTION & MATERIAL PARAMETERS**  
 REACH E2 - STA 301+07  
 RECLAMATION DISTRICT NO. 17  
 SAN JOAQUIN COUNTY, CALIFORNIA

PROJECT NO.: 5747.005.000  
 SCALE: NO SCALE  
 DRAWN BY: ZH CHECKED BY: NS

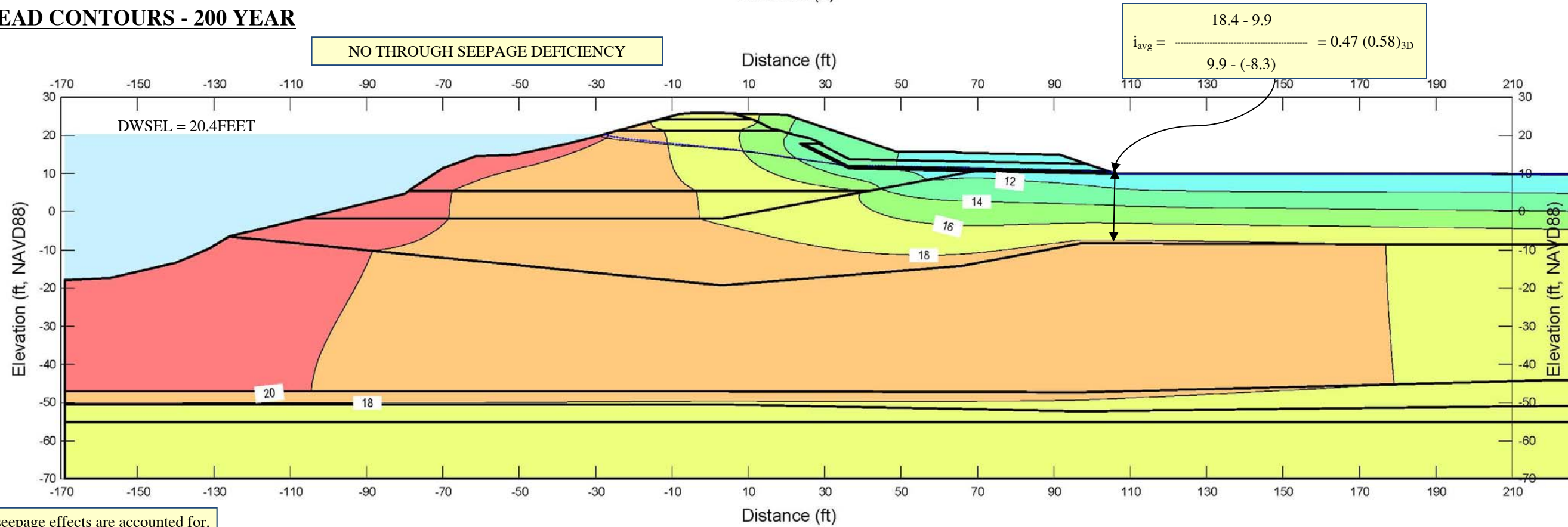
FIGURE NO.  
**E-20-A**

COPYRIGHT © 2014 BY ENGEO INCORPORATED. THIS DOCUMENT MAY NOT BE REPRODUCED IN WHOLE OR IN PART BY ANY MEANS WHATSOEVER WITHOUT THE EXPRESS WRITTEN CONSENT OF ENGEO INCORPORATED.

### GEOMETRY OF MODEL



### TOTAL HEAD CONTOURS - 200 YEAR



Note: 3D seepage effects are accounted for.



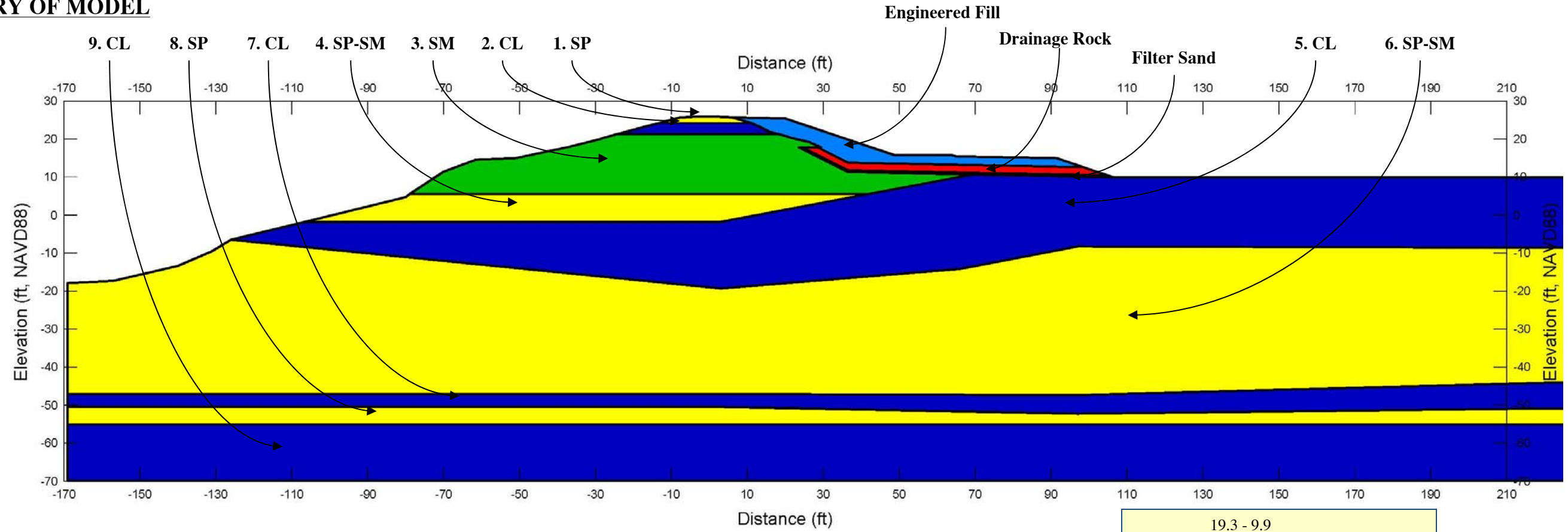
SEEPAGE ANALYSIS  
 REACH E2 - STA 301+07  
 RECLAMATION DISTRICT NO. 17  
 SAN JOAQUIN COUNTY, CALIFORNIA

PROJECT NO.: 5747.005.000	
SCALE:	NO SCALE
DRAWN BY:	ZR
CHECKED BY:	NS

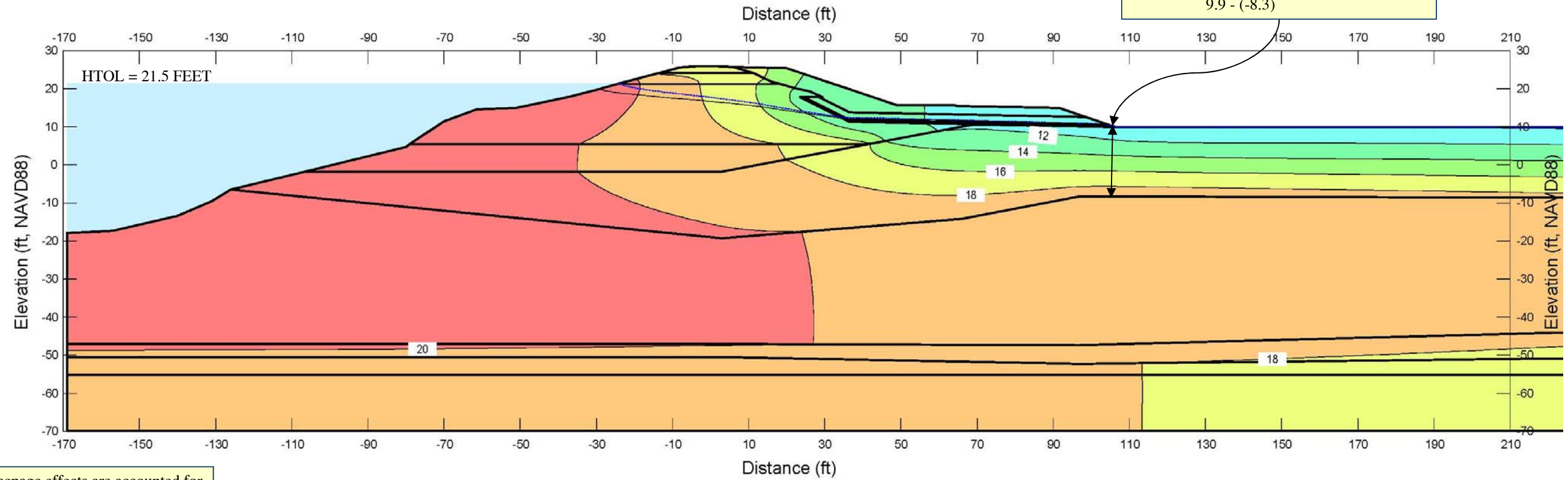
FIGURE NO.  
**E-20-B**

COPYRIGHT © 2014 BY ENGEO INCORPORATED. THIS DOCUMENT MAY NOT BE REPRODUCED IN WHOLE OR IN PART BY ANY MEANS WHATSOEVER WITHOUT THE EXPRESS WRITTEN CONSENT OF ENGEO INCORPORATED.

### GEOMETRY OF MODEL



### TOTAL HEAD CONTOURS - HTOL



Note: 3D seepage effects are accounted for.



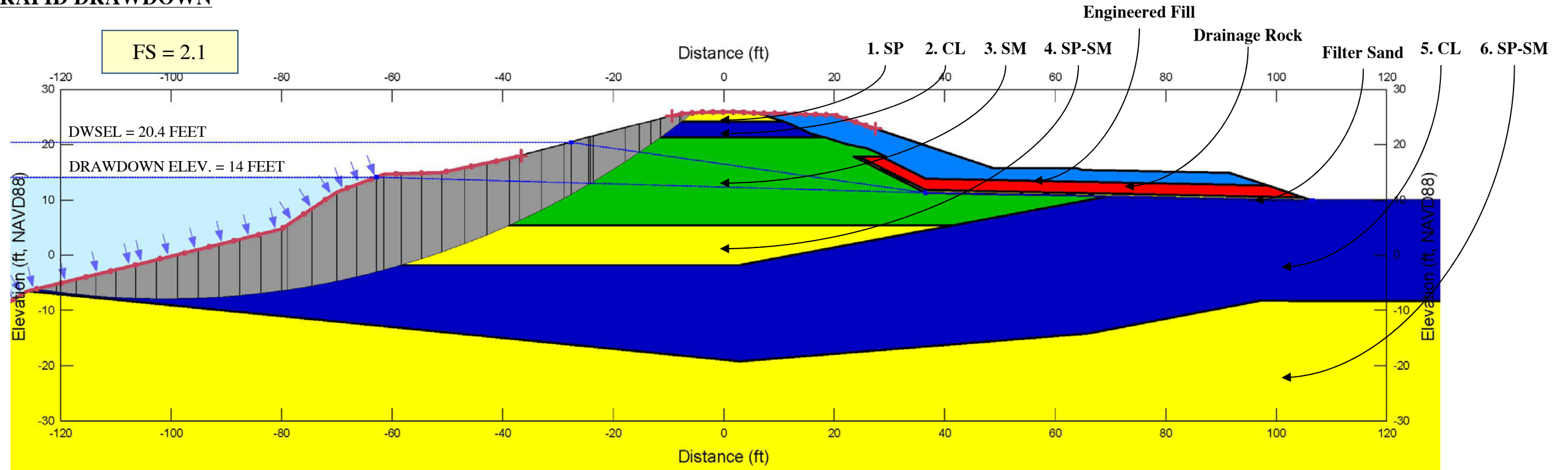
SEEPAGE ANALYSIS  
REACH E2 - STA 301+07  
RECLAMATION DISTRICT NO. 17  
SAN JOAQUIN COUNTY, CALIFORNIA

PROJECT NO.: 5747.005.000	
SCALE: NO SCALE	
DRAWN BY: ZR	CHECKED BY: NS

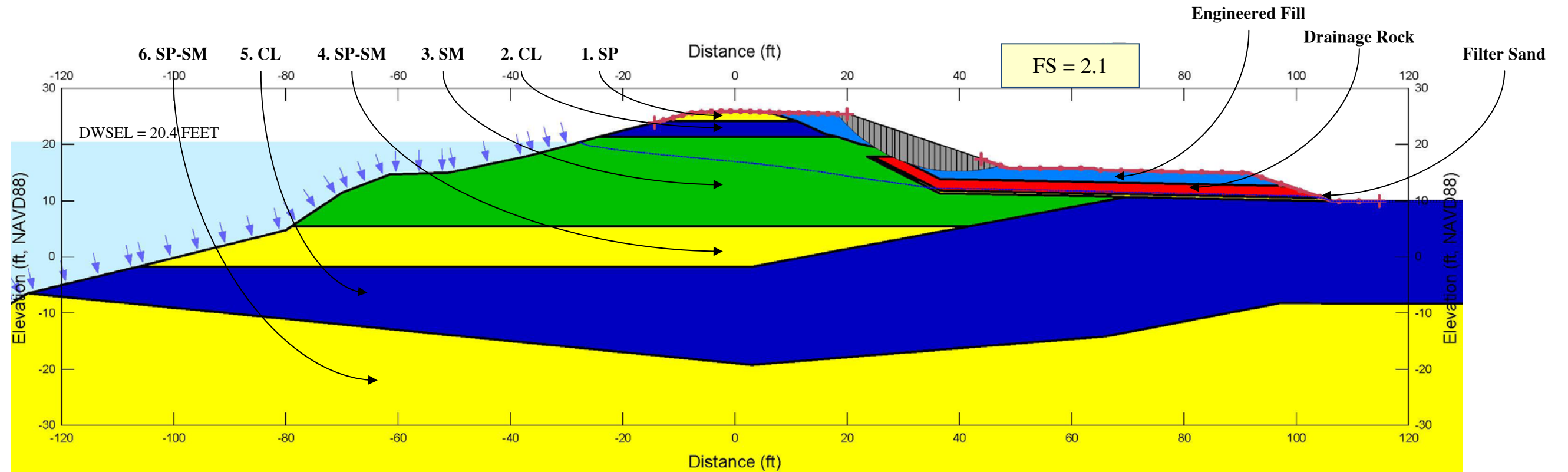
FIGURE NO.  
**E-20-C**

COPYRIGHT © 2014 BY ENGEO INCORPORATED. THIS DOCUMENT MAY NOT BE REPRODUCED IN WHOLE OR IN PART BY ANY MEANS WHATSOEVER, NOR MAY IT BE QUOTED OR EXCERPTED WITHOUT THE EXPRESS WRITTEN CONSENT OF ENGEO INCORPORATED.

### WATERSIDE RAPID DRAWDOWN



### LANDSIDE STEADY STATE SEEPAGE - 200 YEAR



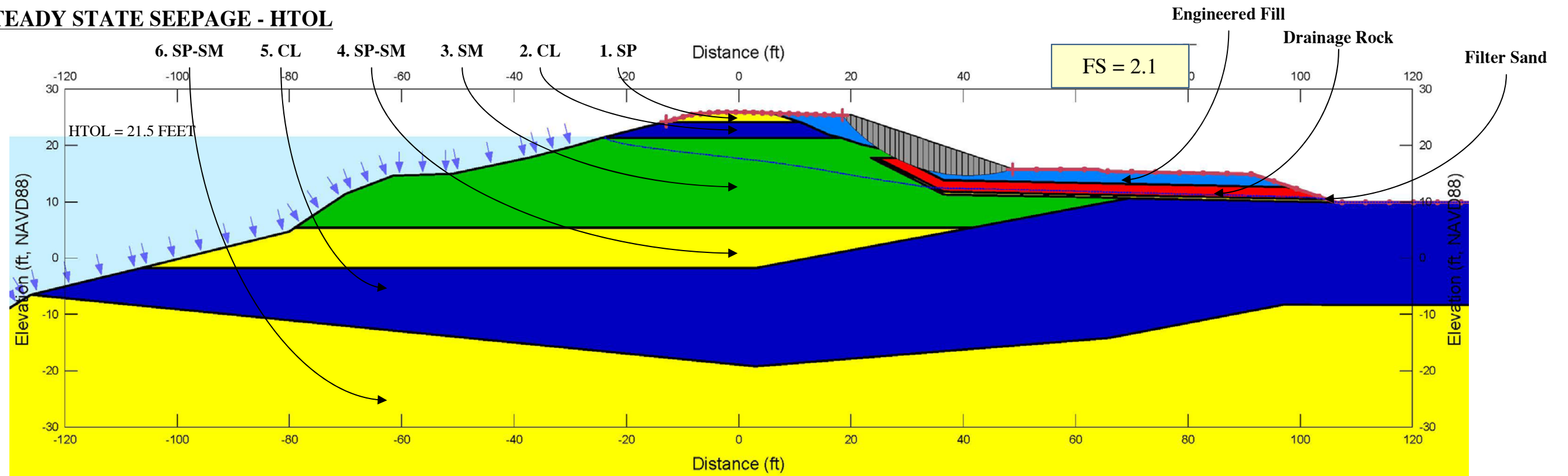
STATIC SLOPE STABILITY ANALYSIS  
 REACH E2 - STA 301+07  
 RECLAMATION DISTRICT NO. 17  
 SAN JOAQUIN COUNTY, CALIFORNIA

PROJECT NO.: 5747.005.000	
SCALE:	NO SCALE
DRAWN BY:	ZR
CHECKED BY:	NS

FIGURE NO.  
**E-20-D**

COPYRIGHT © 2014 BY ENGEO INCORPORATED. THIS DOCUMENT MAY NOT BE REPRODUCED IN WHOLE OR IN PART BY ANY MEANS WHATSOEVER WITHOUT THE EXPRESS WRITTEN CONSENT OF ENGEO INCORPORATED.

### LANDSIDE STEADY STATE SEEPAGE - HTOL



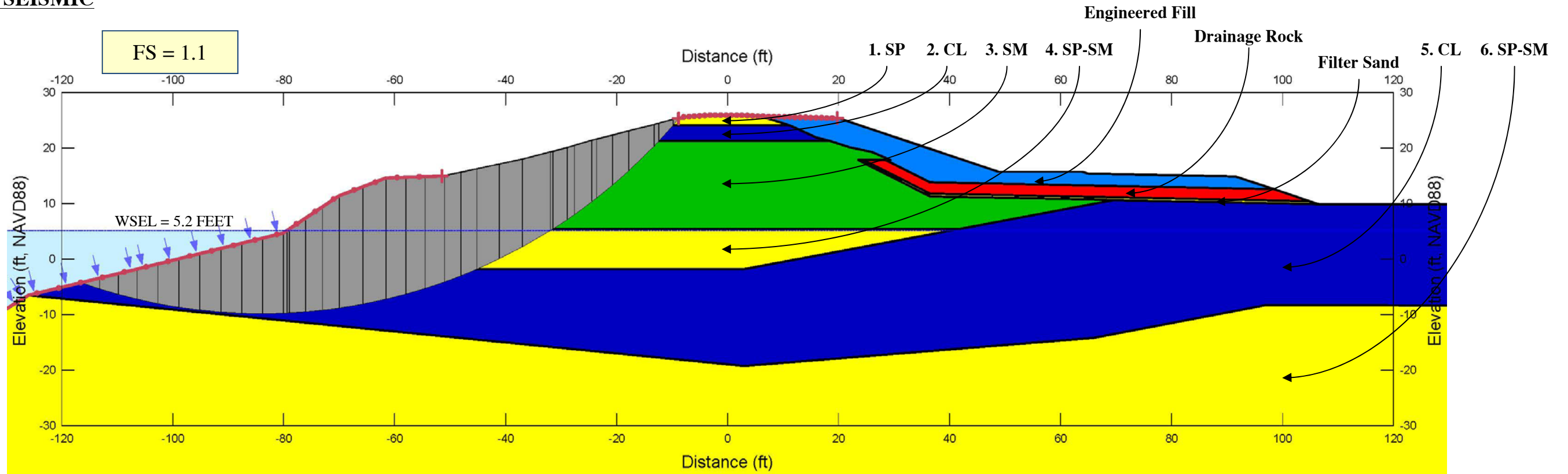
STATIC SLOPE STABILITY ANALYSIS  
 REACH E2 - STA 301+07  
 RECLAMATION DISTRICT NO. 17  
 SAN JOAQUIN COUNTY, CALIFORNIA

PROJECT NO.: 5747.005.000	
SCALE:	NO SCALE
DRAWN BY: ZR	CHECKED BY: NS

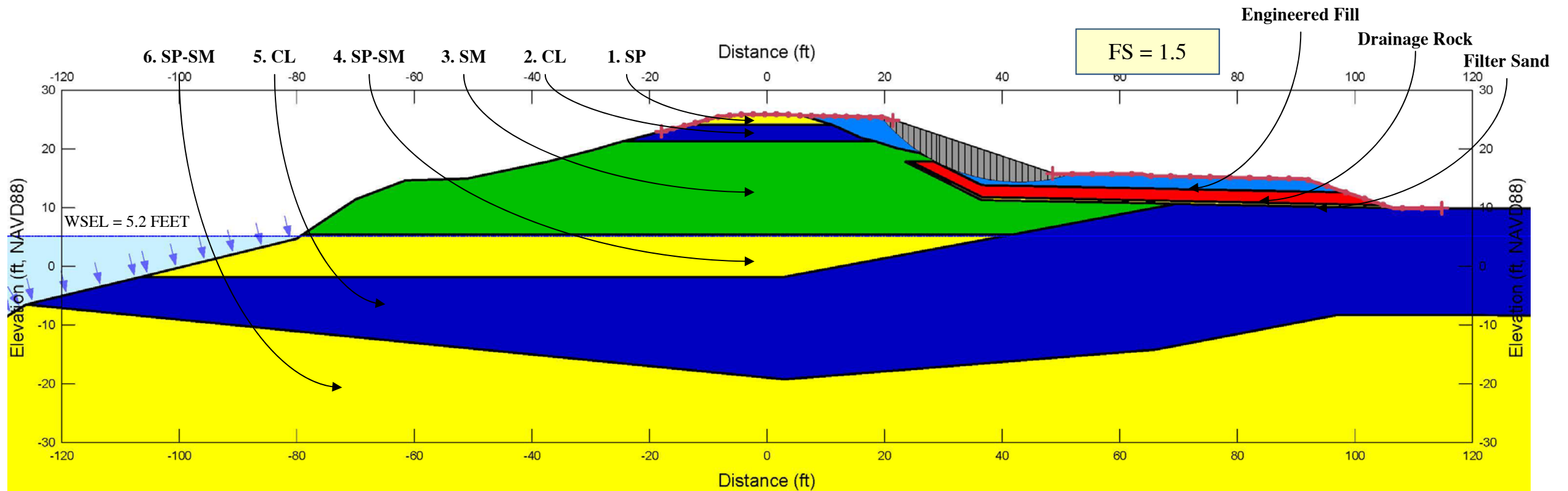
FIGURE NO.  
**E-20-E**

COPYRIGHT © 2014 BY ENGEO INCORPORATED. THIS DOCUMENT MAY NOT BE REPRODUCED IN WHOLE OR IN PART BY ANY MEANS WHATSOEVER, NOR MAY IT BE QUOTED OR EXCERPTED WITHOUT THE EXPRESS WRITTEN CONSENT OF ENGEO INCORPORATED.

### WATERSIDE SEISMIC



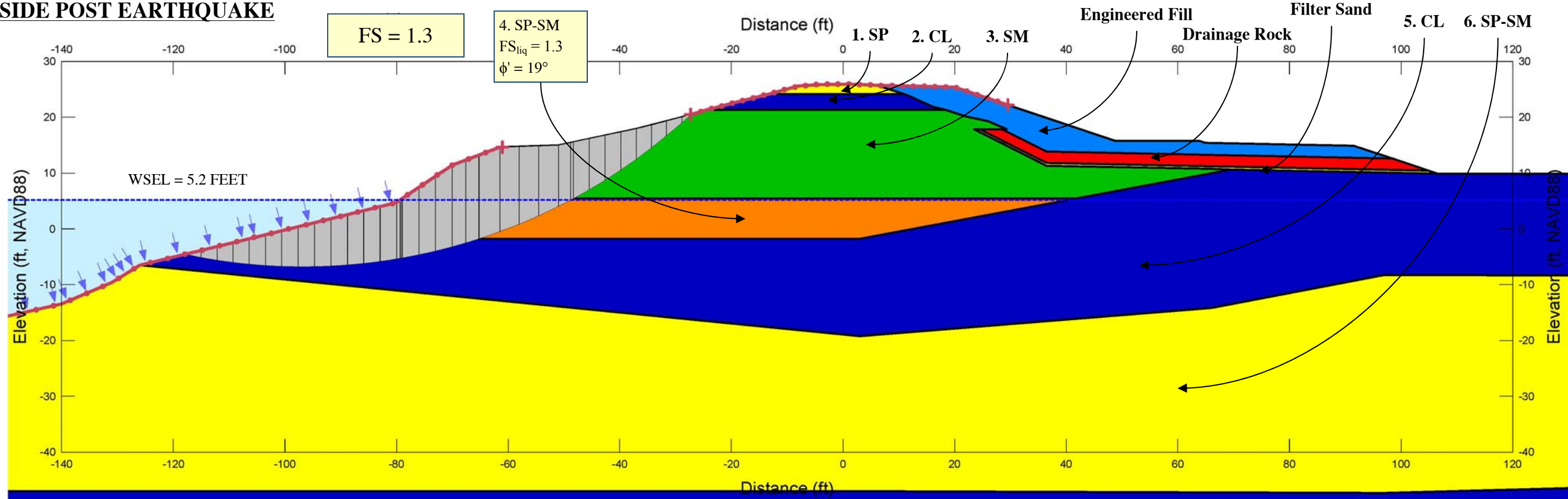
### LANDSIDE SEISMIC



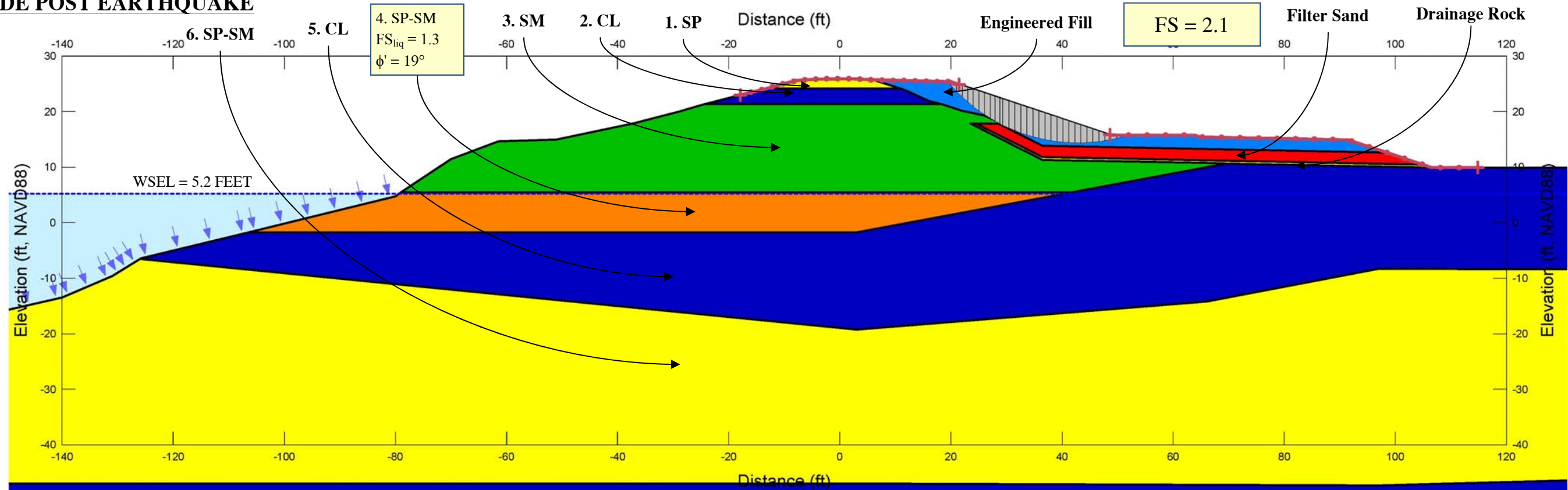
	SEISMIC SLOPE STABILITY ANALYSIS REACH E2 - STA 301+07 RECLAMATION DISTRICT NO. 17 SAN JOAQUIN COUNTY, CALIFORNIA		PROJECT NO.: 5747.005.000	FIGURE NO. <b>E-20-F</b>
			SCALE: NO SCALE	
			DRAWN BY: ZR	CHECKED BY: NB

COPYRIGHT © 2014 BY ENGEO INCORPORATED. THIS DOCUMENT MAY NOT BE REPRODUCED IN WHOLE OR IN PART BY ANY MEANS WHATSOEVER, NOR MAY IT BE QUOTED OR EXCERPTED WITHOUT THE EXPRESS WRITTEN CONSENT OF ENGEO INCORPORATED.

### WATERSIDE POST EARTHQUAKE



### LANDSIDE POST EARTHQUAKE

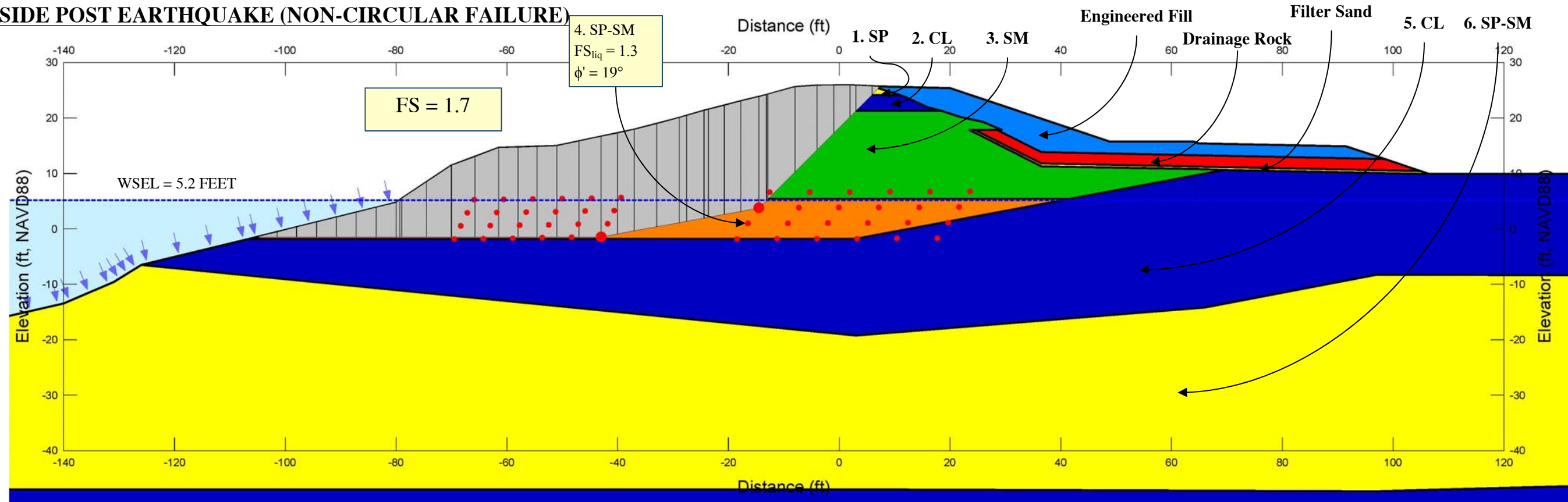


	SEISMIC SLOPE STABILITY ANALYSIS REACH E2 - STA 301+07 RECLAMATION DISTRICT NO. 17 SAN JOAQUIN COUNTY, CALIFORNIA		PROJECT NO.: 5747.005.000	FIGURE NO. <b>E-20-G</b>
			SCALE: NO SCALE	
			DRAWN BY: BA    CHECKED BY: NB	

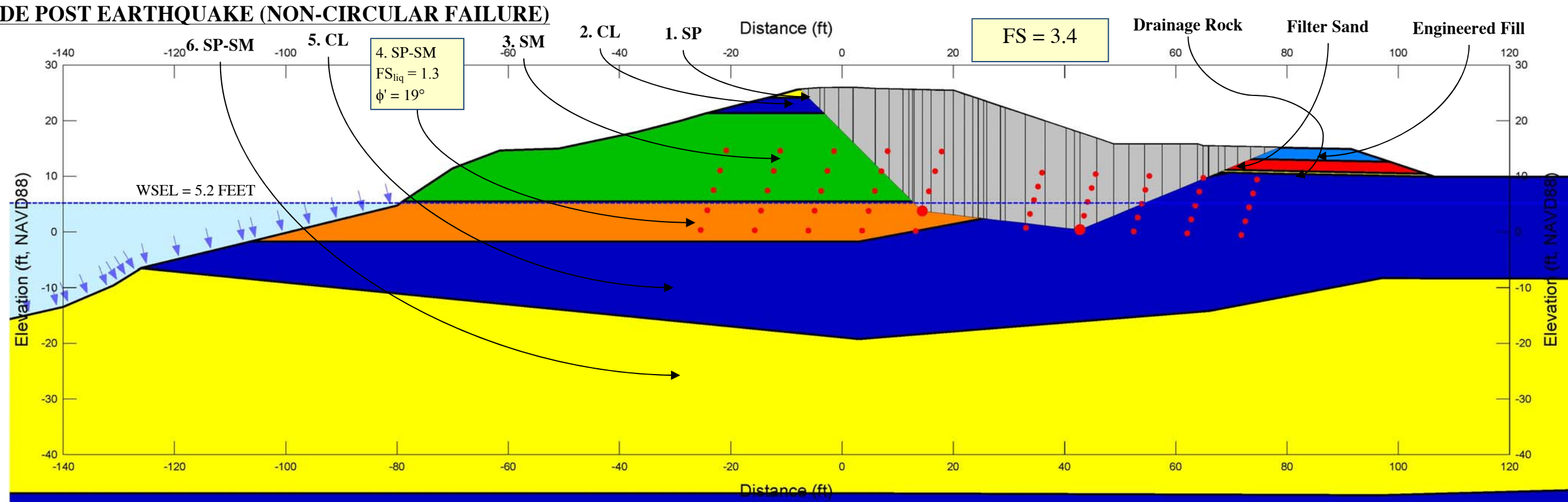



COPYRIGHT © 2014 BY ENGEO INCORPORATED. THIS DOCUMENT MAY NOT BE REPRODUCED IN WHOLE OR IN PART BY ANY MEANS WHATSOEVER, NOR MAY IT BE QUOTED OR EXCERPTED WITHOUT THE EXPRESS WRITTEN CONSENT OF ENGEO INCORPORATED.

**WATERSIDE POST EARTHQUAKE (NON-CIRCULAR FAILURE)**



**LANDSIDE POST EARTHQUAKE (NON-CIRCULAR FAILURE)**

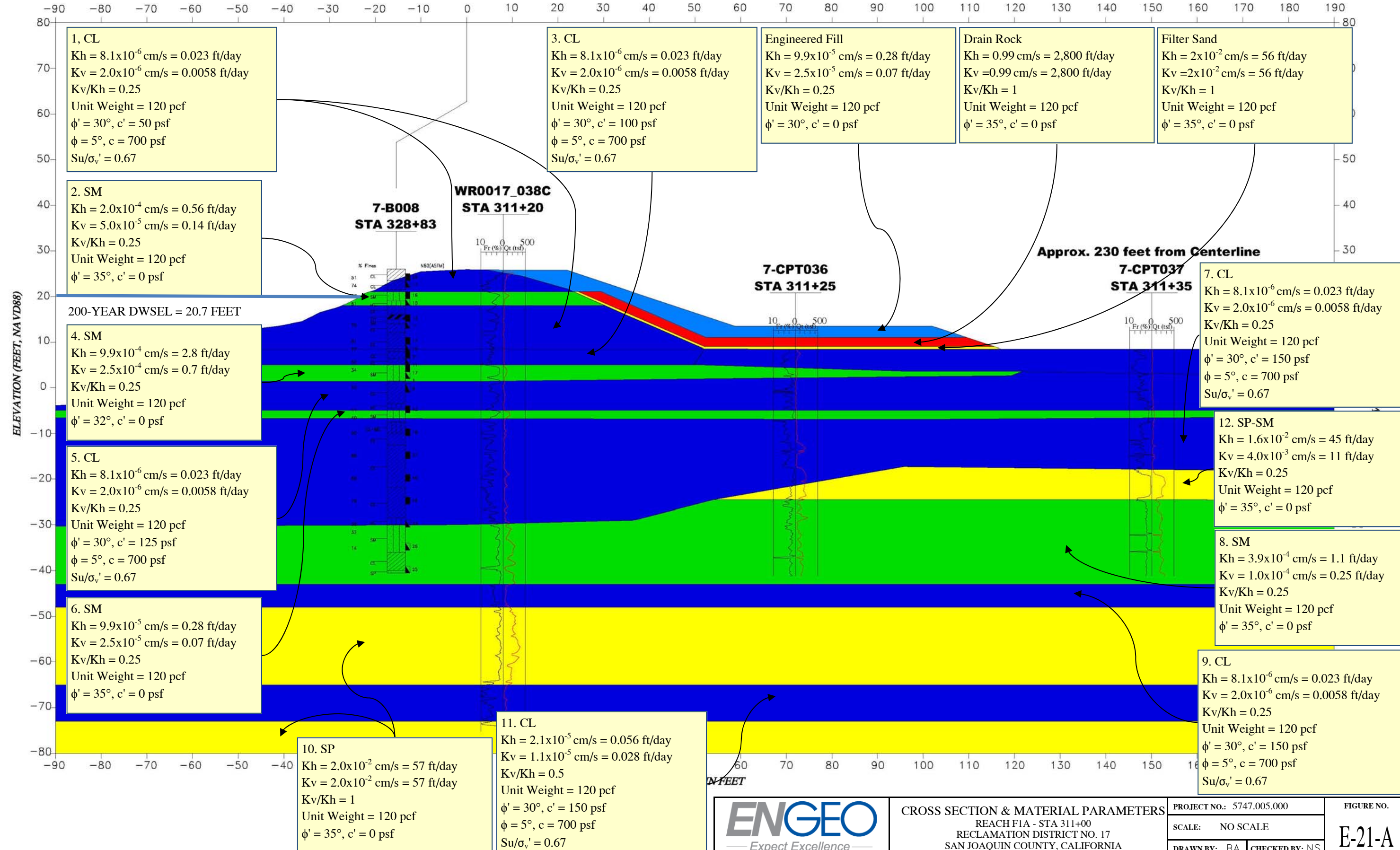


 Expect Excellence	SEISMIC SLOPE STABILITY ANALYSIS REACH E2 - STA 301+07 RECLAMATION DISTRICT NO. 17 SAN JOAQUIN COUNTY, CALIFORNIA		PROJECT NO.: 5747.005.000	FIGURE NO.  <b>E-20-H</b>
			SCALE: NO SCALE	
			DRAWN BY: BA    CHECKED BY: NB	

# WATERSIDE

# LANDSIDE

DISTANCE IN FEET



**1. CL**  
 $K_h = 8.1 \times 10^{-6} \text{ cm/s} = 0.023 \text{ ft/day}$   
 $K_v = 2.0 \times 10^{-6} \text{ cm/s} = 0.0058 \text{ ft/day}$   
 $K_v/K_h = 0.25$   
 Unit Weight = 120 pcf  
 $\phi' = 30^\circ, c' = 50 \text{ psf}$   
 $\phi = 5^\circ, c = 700 \text{ psf}$   
 $S_u/\sigma_v' = 0.67$

**2. SM**  
 $K_h = 2.0 \times 10^{-4} \text{ cm/s} = 0.56 \text{ ft/day}$   
 $K_v = 5.0 \times 10^{-5} \text{ cm/s} = 0.14 \text{ ft/day}$   
 $K_v/K_h = 0.25$   
 Unit Weight = 120 pcf  
 $\phi' = 35^\circ, c' = 0 \text{ psf}$

**4. SM**  
 $K_h = 9.9 \times 10^{-4} \text{ cm/s} = 2.8 \text{ ft/day}$   
 $K_v = 2.5 \times 10^{-4} \text{ cm/s} = 0.7 \text{ ft/day}$   
 $K_v/K_h = 0.25$   
 Unit Weight = 120 pcf  
 $\phi' = 32^\circ, c' = 0 \text{ psf}$

**5. CL**  
 $K_h = 8.1 \times 10^{-6} \text{ cm/s} = 0.023 \text{ ft/day}$   
 $K_v = 2.0 \times 10^{-6} \text{ cm/s} = 0.0058 \text{ ft/day}$   
 $K_v/K_h = 0.25$   
 Unit Weight = 120 pcf  
 $\phi' = 30^\circ, c' = 125 \text{ psf}$   
 $\phi = 5^\circ, c = 700 \text{ psf}$   
 $S_u/\sigma_v' = 0.67$

**6. SM**  
 $K_h = 9.9 \times 10^{-5} \text{ cm/s} = 0.28 \text{ ft/day}$   
 $K_v = 2.5 \times 10^{-5} \text{ cm/s} = 0.07 \text{ ft/day}$   
 $K_v/K_h = 0.25$   
 Unit Weight = 120 pcf  
 $\phi' = 35^\circ, c' = 0 \text{ psf}$

**10. SP**  
 $K_h = 2.0 \times 10^{-2} \text{ cm/s} = 57 \text{ ft/day}$   
 $K_v = 2.0 \times 10^{-2} \text{ cm/s} = 57 \text{ ft/day}$   
 $K_v/K_h = 1$   
 Unit Weight = 120 pcf  
 $\phi' = 35^\circ, c' = 0 \text{ psf}$

**11. CL**  
 $K_h = 2.1 \times 10^{-5} \text{ cm/s} = 0.056 \text{ ft/day}$   
 $K_v = 1.1 \times 10^{-5} \text{ cm/s} = 0.028 \text{ ft/day}$   
 $K_v/K_h = 0.5$   
 Unit Weight = 120 pcf  
 $\phi' = 30^\circ, c' = 150 \text{ psf}$   
 $\phi = 5^\circ, c = 700 \text{ psf}$   
 $S_u/\sigma_v' = 0.67$

**3. CL**  
 $K_h = 8.1 \times 10^{-6} \text{ cm/s} = 0.023 \text{ ft/day}$   
 $K_v = 2.0 \times 10^{-6} \text{ cm/s} = 0.0058 \text{ ft/day}$   
 $K_v/K_h = 0.25$   
 Unit Weight = 120 pcf  
 $\phi' = 30^\circ, c' = 100 \text{ psf}$   
 $\phi = 5^\circ, c = 700 \text{ psf}$   
 $S_u/\sigma_v' = 0.67$

**Engineered Fill**  
 $K_h = 9.9 \times 10^{-5} \text{ cm/s} = 0.28 \text{ ft/day}$   
 $K_v = 2.5 \times 10^{-5} \text{ cm/s} = 0.07 \text{ ft/day}$   
 $K_v/K_h = 0.25$   
 Unit Weight = 120 pcf  
 $\phi' = 30^\circ, c' = 0 \text{ psf}$

**Drain Rock**  
 $K_h = 0.99 \text{ cm/s} = 2,800 \text{ ft/day}$   
 $K_v = 0.99 \text{ cm/s} = 2,800 \text{ ft/day}$   
 $K_v/K_h = 1$   
 Unit Weight = 120 pcf  
 $\phi' = 35^\circ, c' = 0 \text{ psf}$

**Filter Sand**  
 $K_h = 2 \times 10^{-2} \text{ cm/s} = 56 \text{ ft/day}$   
 $K_v = 2 \times 10^{-2} \text{ cm/s} = 56 \text{ ft/day}$   
 $K_v/K_h = 1$   
 Unit Weight = 120 pcf  
 $\phi' = 35^\circ, c' = 0 \text{ psf}$

**7. CL**  
 $K_h = 8.1 \times 10^{-6} \text{ cm/s} = 0.023 \text{ ft/day}$   
 $K_v = 2.0 \times 10^{-6} \text{ cm/s} = 0.0058 \text{ ft/day}$   
 $K_v/K_h = 0.25$   
 Unit Weight = 120 pcf  
 $\phi' = 30^\circ, c' = 150 \text{ psf}$   
 $\phi = 5^\circ, c = 700 \text{ psf}$   
 $S_u/\sigma_v' = 0.67$

**12. SP-SM**  
 $K_h = 1.6 \times 10^{-2} \text{ cm/s} = 45 \text{ ft/day}$   
 $K_v = 4.0 \times 10^{-3} \text{ cm/s} = 11 \text{ ft/day}$   
 $K_v/K_h = 0.25$   
 Unit Weight = 120 pcf  
 $\phi' = 35^\circ, c' = 0 \text{ psf}$

**8. SM**  
 $K_h = 3.9 \times 10^{-4} \text{ cm/s} = 1.1 \text{ ft/day}$   
 $K_v = 1.0 \times 10^{-4} \text{ cm/s} = 0.25 \text{ ft/day}$   
 $K_v/K_h = 0.25$   
 Unit Weight = 120 pcf  
 $\phi' = 35^\circ, c' = 0 \text{ psf}$

**9. CL**  
 $K_h = 8.1 \times 10^{-6} \text{ cm/s} = 0.023 \text{ ft/day}$   
 $K_v = 2.0 \times 10^{-6} \text{ cm/s} = 0.0058 \text{ ft/day}$   
 $K_v/K_h = 0.25$   
 Unit Weight = 120 pcf  
 $\phi' = 30^\circ, c' = 150 \text{ psf}$   
 $\phi = 5^\circ, c = 700 \text{ psf}$   
 $S_u/\sigma_v' = 0.67$

Approx. 230 feet from Centerline

COPYRIGHT © 2014 BY ENGEO INCORPORATED. THIS DOCUMENT MAY NOT BE REPRODUCED IN WHOLE OR IN PART BY ANY MEANS WHATSOEVER, NOR MAY IT BE QUOTED OR EXCERPTED WITHOUT THE EXPRESS WRITTEN CONSENT OF ENGEO INCORPORATED.



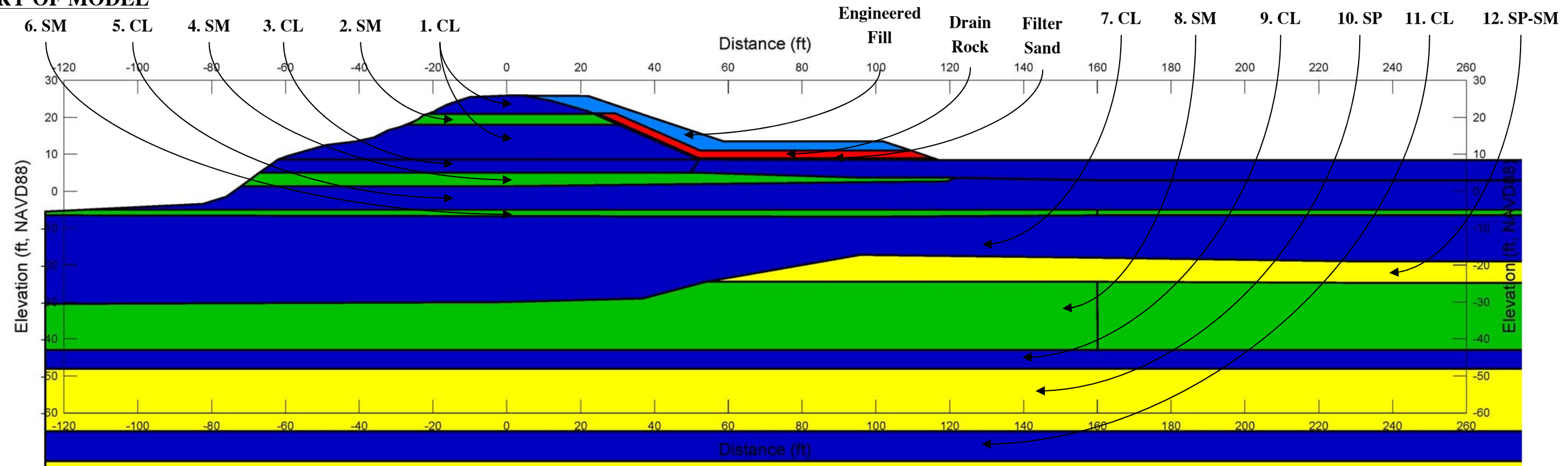
**CROSS SECTION & MATERIAL PARAMETERS**  
 REACH F1A - STA 311+00  
 RECLAMATION DISTRICT NO. 17  
 SAN JOAQUIN COUNTY, CALIFORNIA

PROJECT NO.: 5747.005.000  
 SCALE: NO SCALE  
 DRAWN BY: BA CHECKED BY: NS

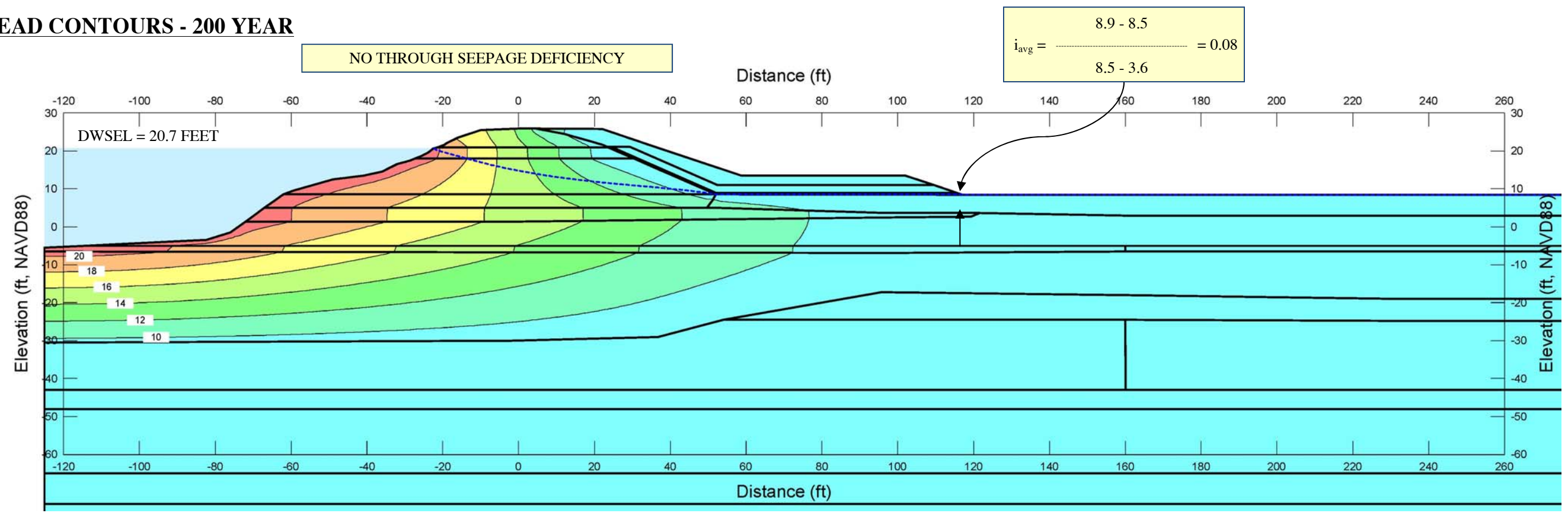
FIGURE NO.  
**E-21-A**

COPYRIGHT © 2014 BY ENGEO INCORPORATED. THIS DOCUMENT MAY NOT BE REPRODUCED IN WHOLE OR IN PART BY ANY MEANS WHATSOEVER, NOR MAY IT BE QUOTED OR EXCERPTED WITHOUT THE EXPRESS WRITTEN CONSENT OF ENGEO INCORPORATED.

**GEOMETRY OF MODEL**



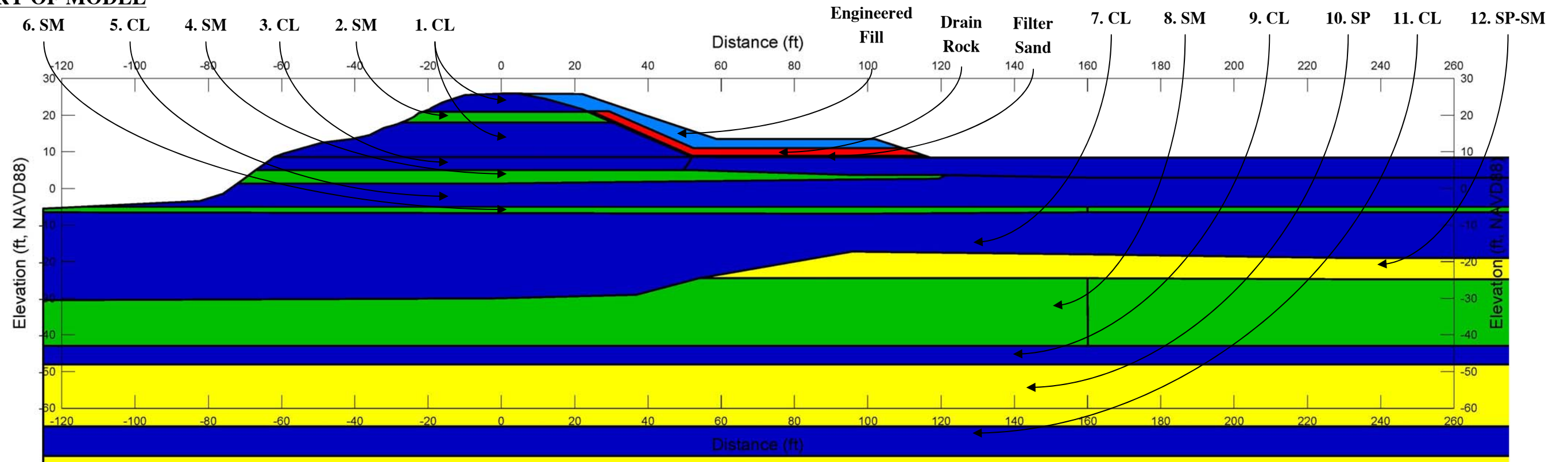
**TOTAL HEAD CONTOURS - 200 YEAR**



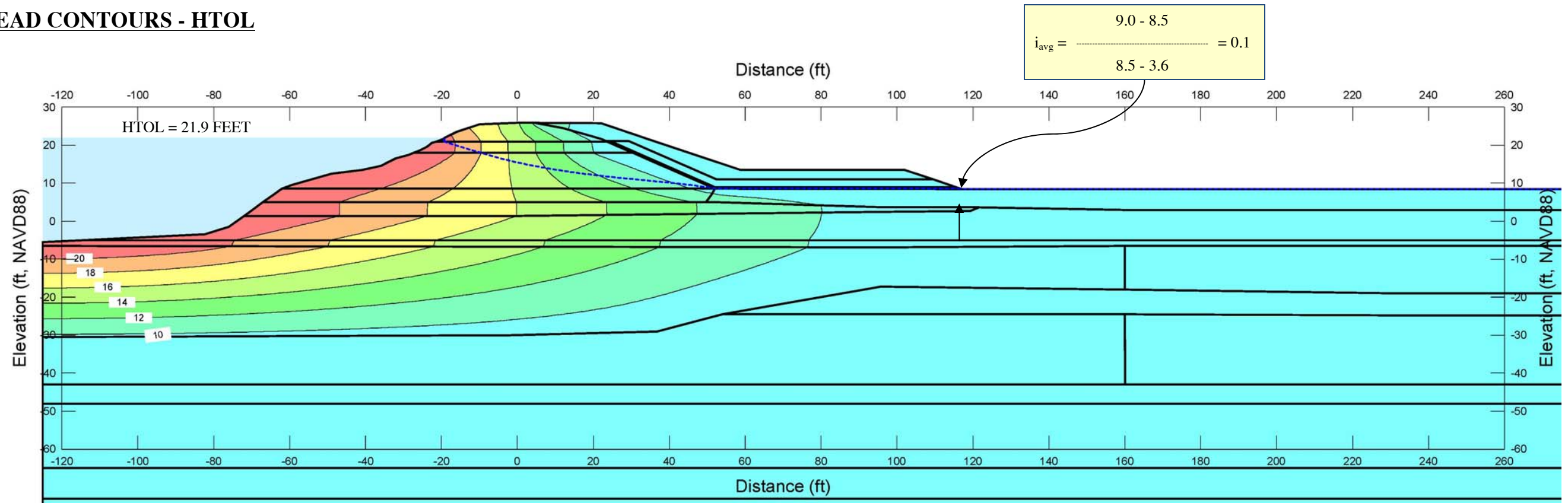
	SEEPAGE ANALYSIS REACH F1A - STA 311+00 RECLAMATION DISTRICT NO. 17 SAN JOAQUIN COUNTY, CALIFORNIA		PROJECT NO.: 5747.005.000	FIGURE NO. <b>E-21-B</b>
			SCALE: NO SCALE	
			DRAWN BY: BA    CHECKED BY: NS	

COPYRIGHT © 2014 BY ENGEO INCORPORATED. THIS DOCUMENT MAY NOT BE REPRODUCED IN WHOLE OR IN PART BY ANY MEANS WHATSOEVER, NOR MAY IT BE QUOTED OR EXCERPTED WITHOUT THE EXPRESS WRITTEN CONSENT OF ENGEO INCORPORATED.

### GEOMETRY OF MODEL



### TOTAL HEAD CONTOURS - HTOL



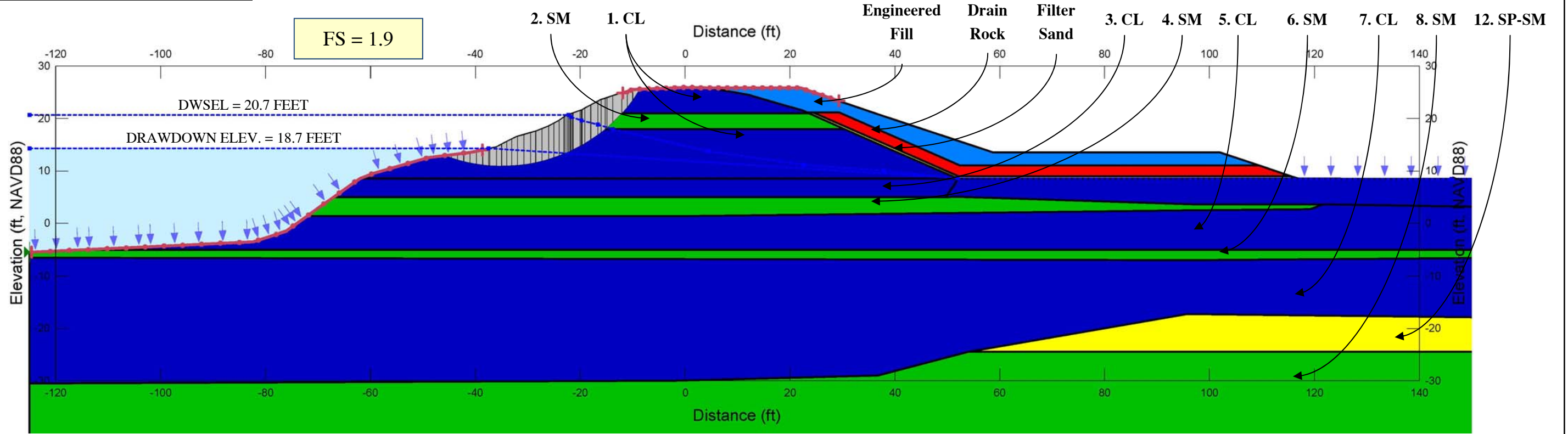
SEEPAGE ANALYSIS  
 REACH F1A - STA 311+00  
 RECLAMATION DISTRICT NO. 17  
 SAN JOAQUIN COUNTY, CALIFORNIA

PROJECT NO.: 5747.005.000	
SCALE:	NO SCALE
DRAWN BY:	BA
CHECKED BY:	NS

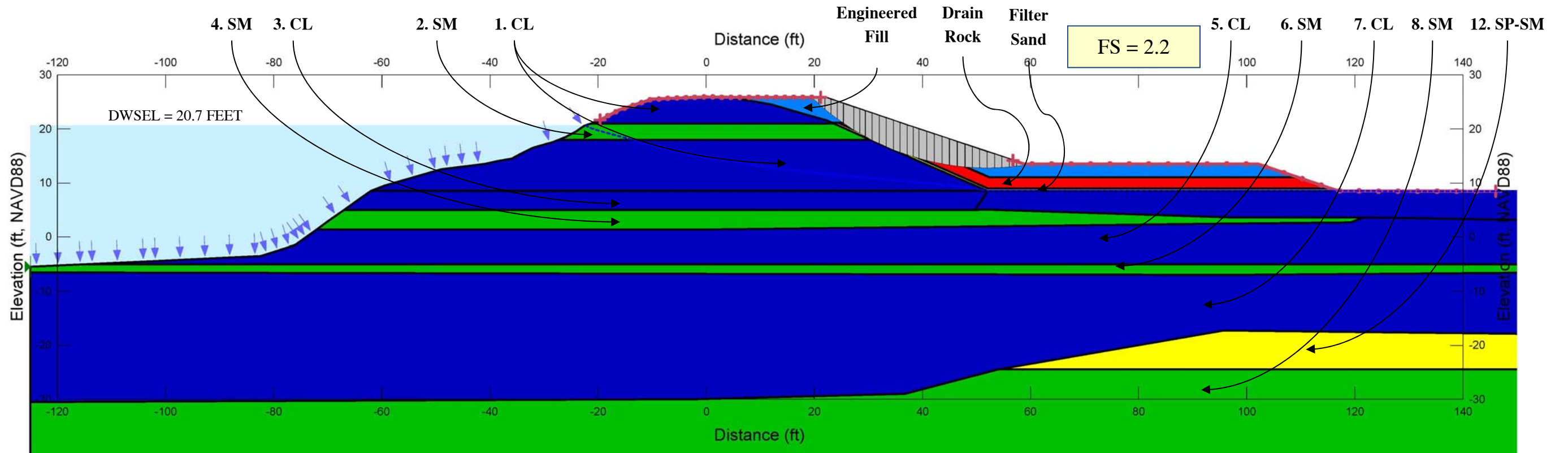
FIGURE NO.  
**E-21-C**

COPYRIGHT © 2014 BY ENGEO INCORPORATED. THIS DOCUMENT MAY NOT BE REPRODUCED IN WHOLE OR IN PART BY ANY MEANS WHATSOEVER, NOR MAY IT BE QUOTED OR EXCERPTED WITHOUT THE EXPRESS WRITTEN CONSENT OF ENGEO INCORPORATED.

### WATERSIDE RAPID DRAWDOWN



### LANDSIDE STEADY STATE SEEPAGE - 200 YEAR



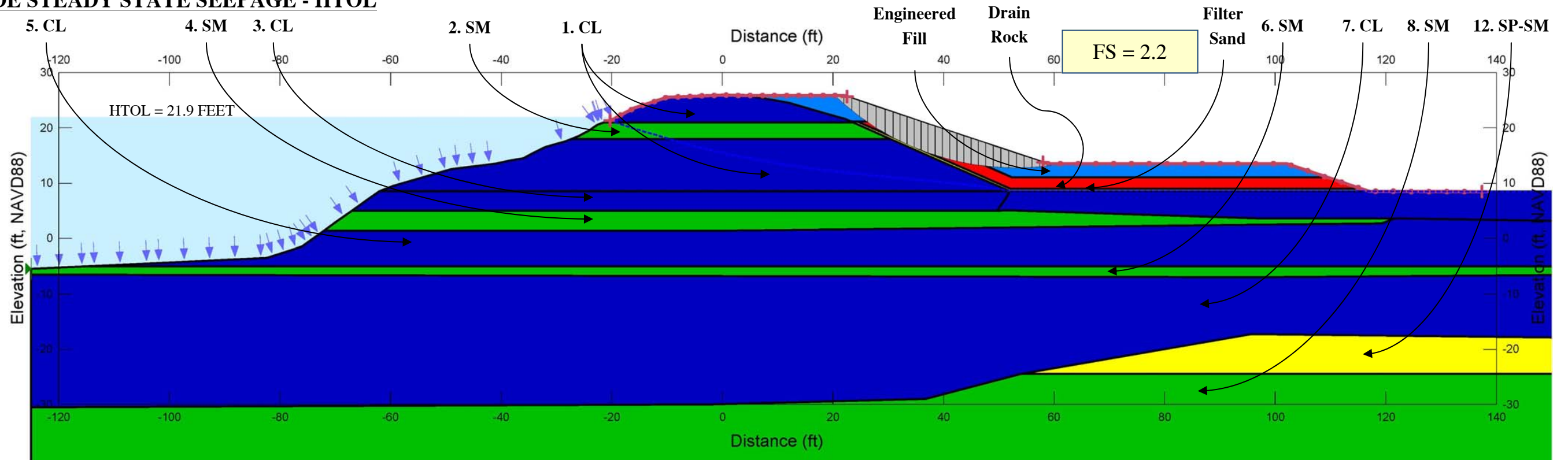
STATIC SLOPE STABILITY ANALYSIS  
 REACH F1A - STA 311+00  
 RECLAMATION DISTRICT NO. 17  
 SAN JOAQUIN COUNTY, CALIFORNIA

PROJECT NO.: 5747.005.000	
SCALE: NO SCALE	
DRAWN BY: BA	CHECKED BY: NS

FIGURE NO.  
**E-21-D**

COPYRIGHT © 2014 BY ENGEO INCORPORATED. THIS DOCUMENT MAY NOT BE REPRODUCED IN WHOLE OR IN PART BY ANY MEANS WHATSOEVER WITHOUT THE EXPRESS WRITTEN CONSENT OF ENGEO INCORPORATED.

### LANDSIDE STEADY STATE SEEPAGE - HTOL



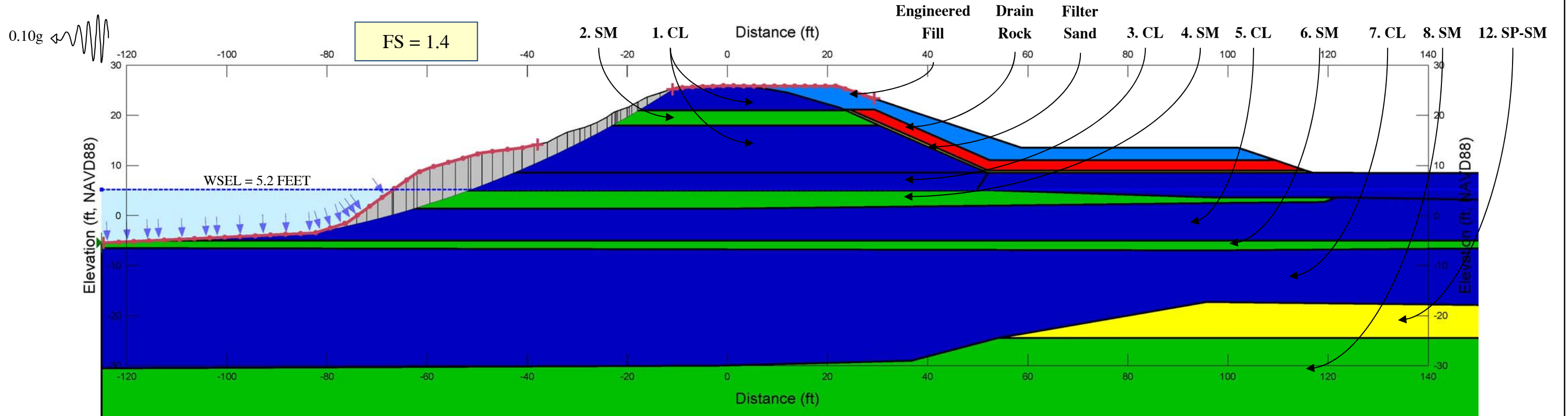
STATIC SLOPE STABILITY ANALYSIS  
 REACH F1A - STA 311+00  
 RECLAMATION DISTRICT NO. 17  
 SAN JOAQUIN COUNTY, CALIFORNIA

PROJECT NO.: 5747.005.000	
SCALE: NO SCALE	
DRAWN BY: BA	CHECKED BY: NS

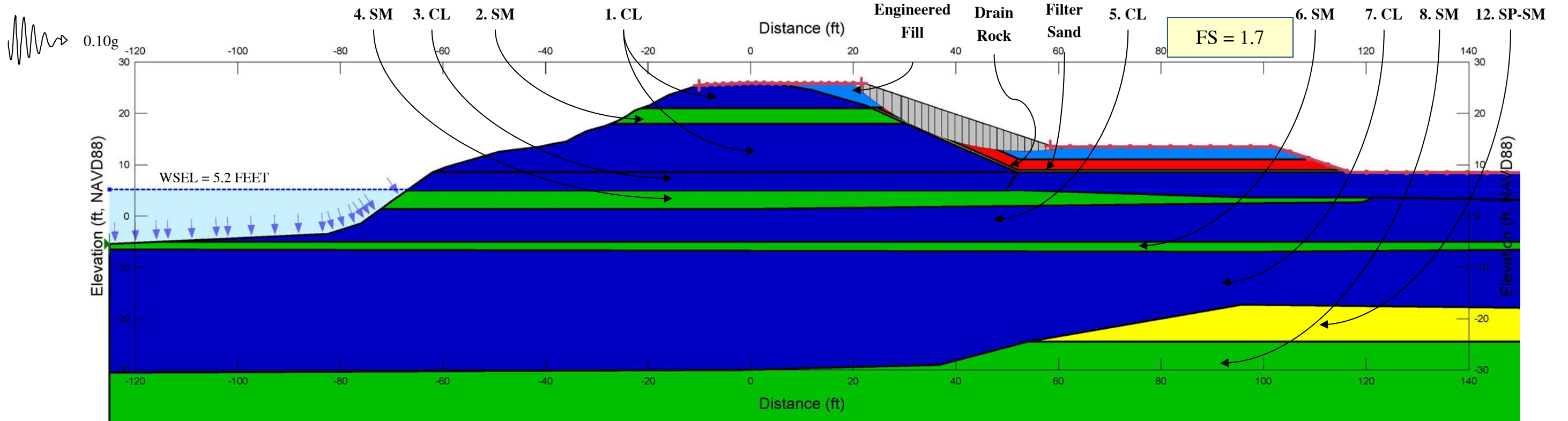
FIGURE NO.  
**E-21-E**

COPYRIGHT © 2014 BY ENGEO INCORPORATED. THIS DOCUMENT MAY NOT BE REPRODUCED IN WHOLE OR IN PART BY ANY MEANS WHATSOEVER, NOR MAY IT BE QUOTED OR EXCERPTED WITHOUT THE EXPRESS WRITTEN CONSENT OF ENGEO INCORPORATED.

### WATERSIDE SEISMIC



### LANDSIDE SEISMIC



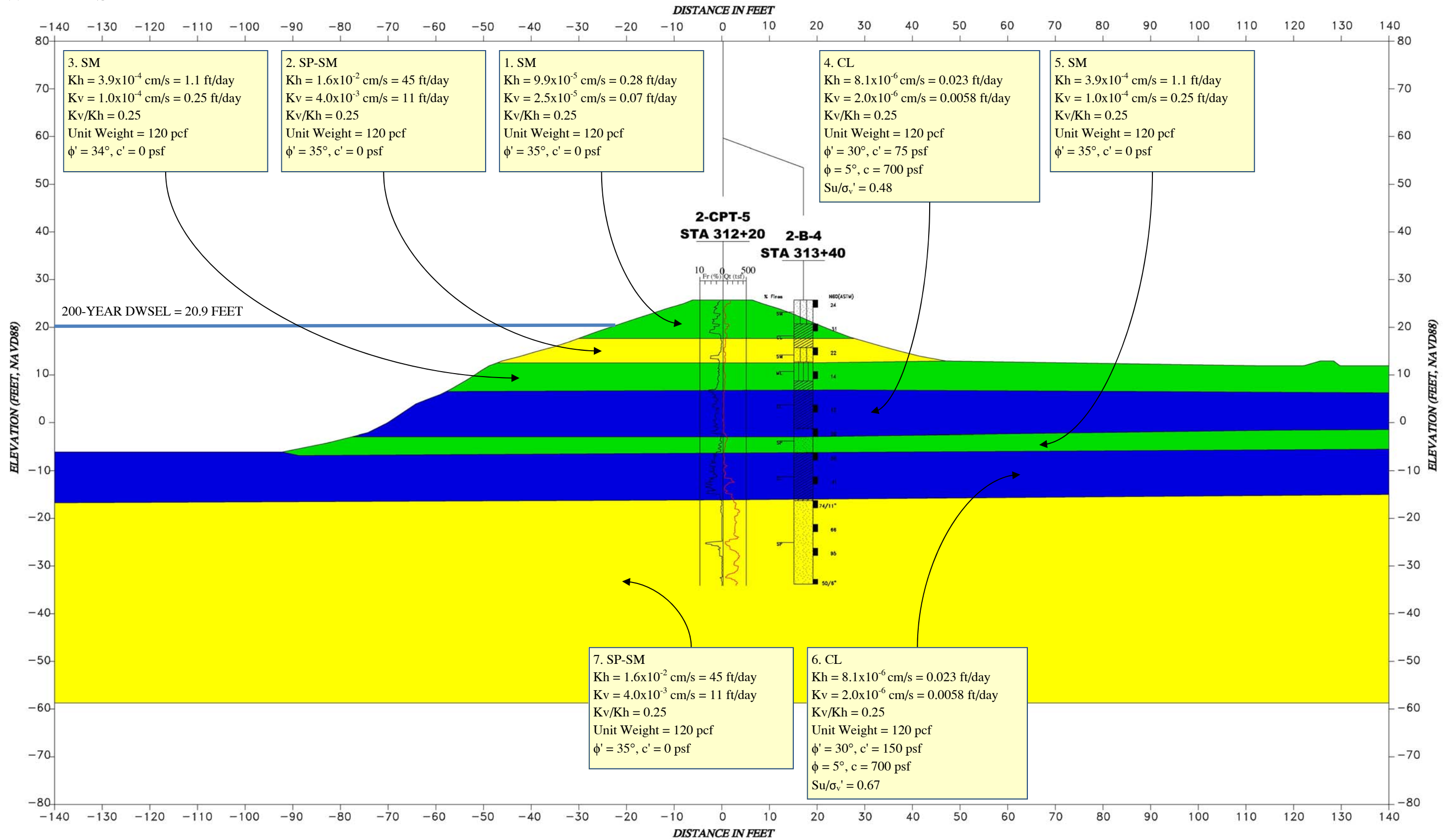
SEISMIC SLOPE STABILITY ANALYSIS  
 REACH F1A - STA 311+00  
 RECLAMATION DISTRICT NO. 17  
 SAN JOAQUIN COUNTY, CALIFORNIA

PROJECT NO.: 5747.005.000	
SCALE: NO SCALE	
DRAWN BY: BA	CHECKED BY: NS

FIGURE NO.  
**E-21-F**

WATERSIDE

LANDSIDE



COPYRIGHT © 2014 BY ENGEO INCORPORATED. THIS DOCUMENT MAY NOT BE REPRODUCED IN WHOLE OR IN PART BY ANY MEANS WHATSOEVER, NOR MAY IT BE QUOTED OR EXCERPTED WITHOUT THE EXPRESS WRITTEN CONSENT OF ENGEO INCORPORATED.



CROSS SECTION & MATERIAL PARAMETERS  
 REACH F1A - STA 313+75  
 RECLAMATION DISTRICT NO. 17  
 SAN JOAQUIN COUNTY, CALIFORNIA

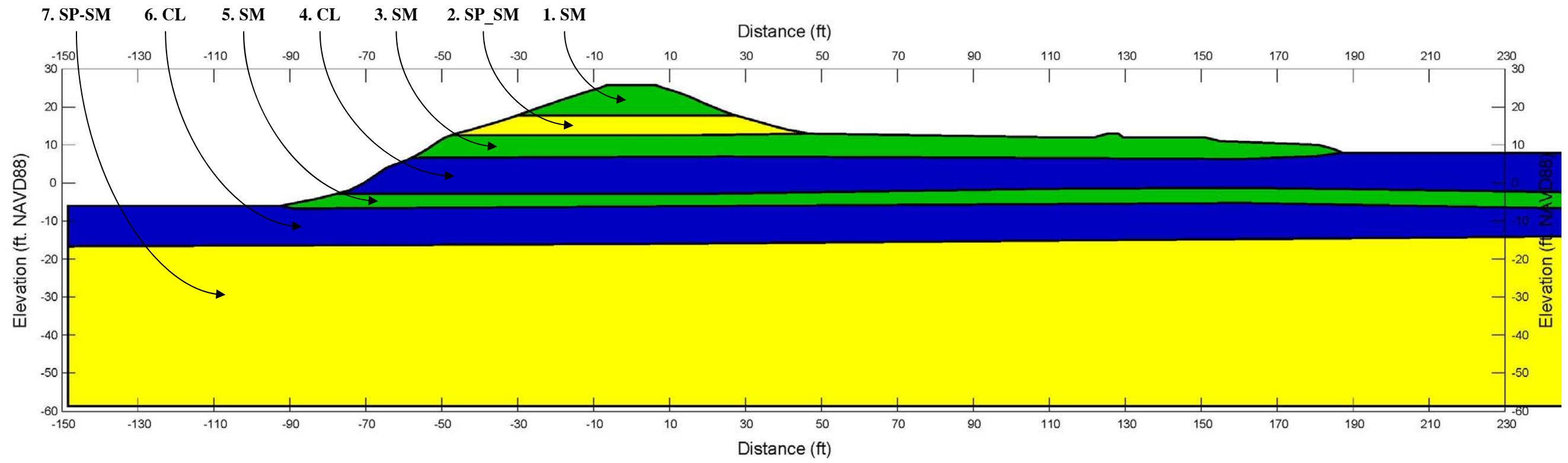
PROJECT NO.: 5747.005.000	
SCALE:	NO SCALE
DRAWN BY:	ZR
CHECKED BY:	AL

FIGURE NO.  
**E-22-A**

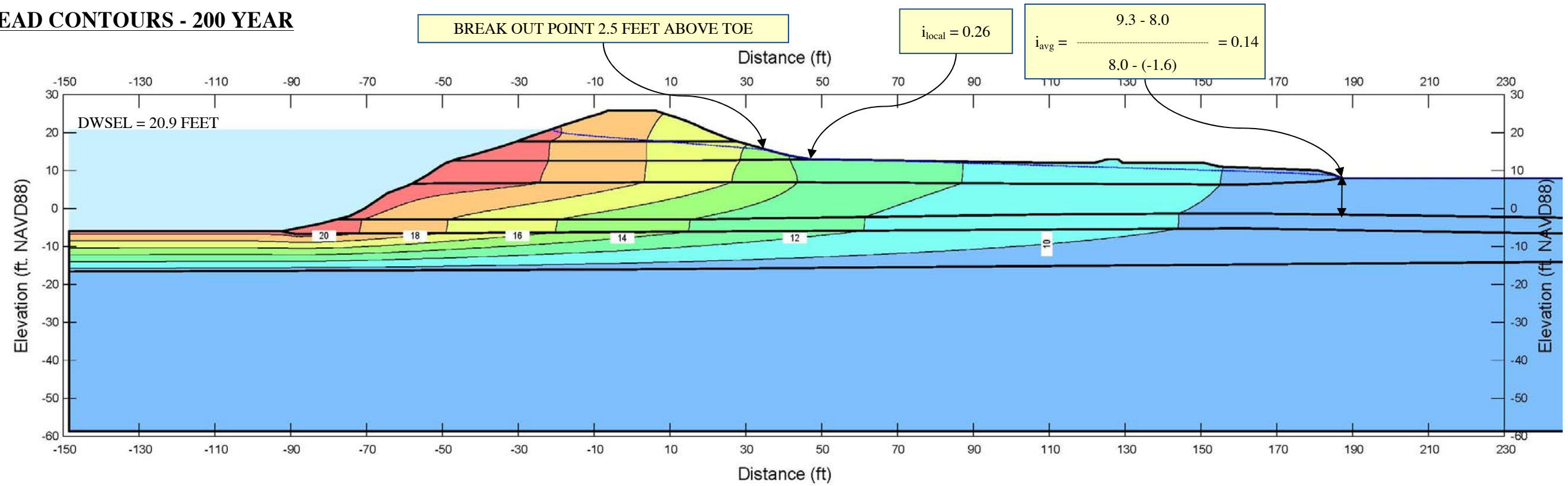


COPYRIGHT © 2014 BY ENGEO INCORPORATED. THIS DOCUMENT MAY NOT BE REPRODUCED IN WHOLE OR IN PART BY ANY MEANS WHATSOEVER, NOR MAY IT BE QUOTED OR EXCERPTED WITHOUT THE EXPRESS WRITTEN CONSENT OF ENGEO INCORPORATED.

### GEOMETRY OF MODEL



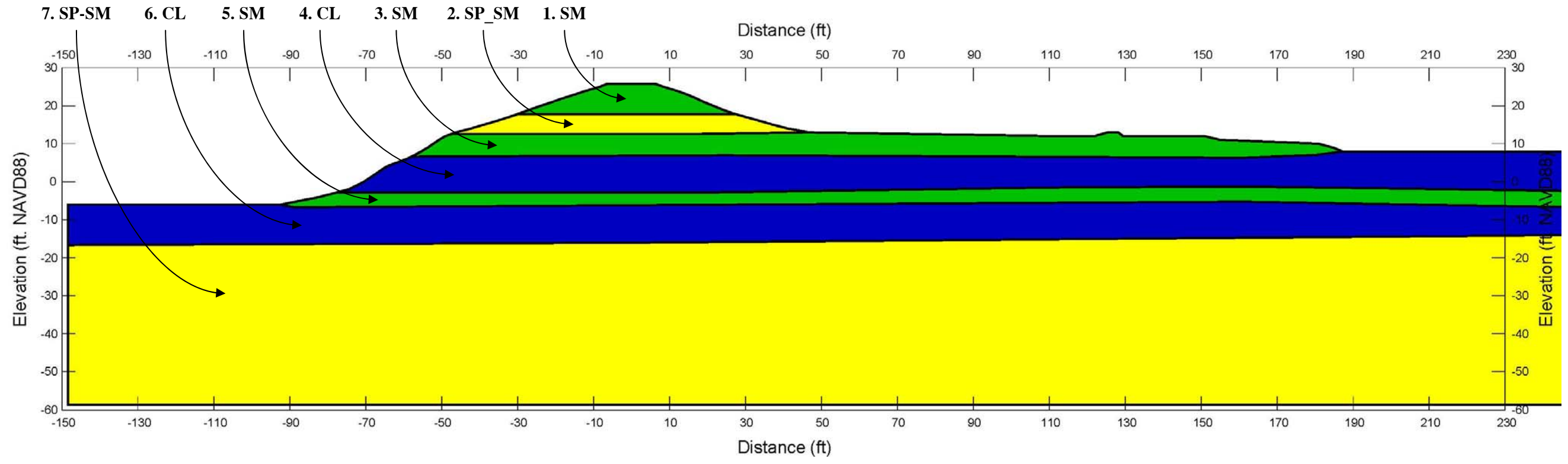
### TOTAL HEAD CONTOURS - 200 YEAR



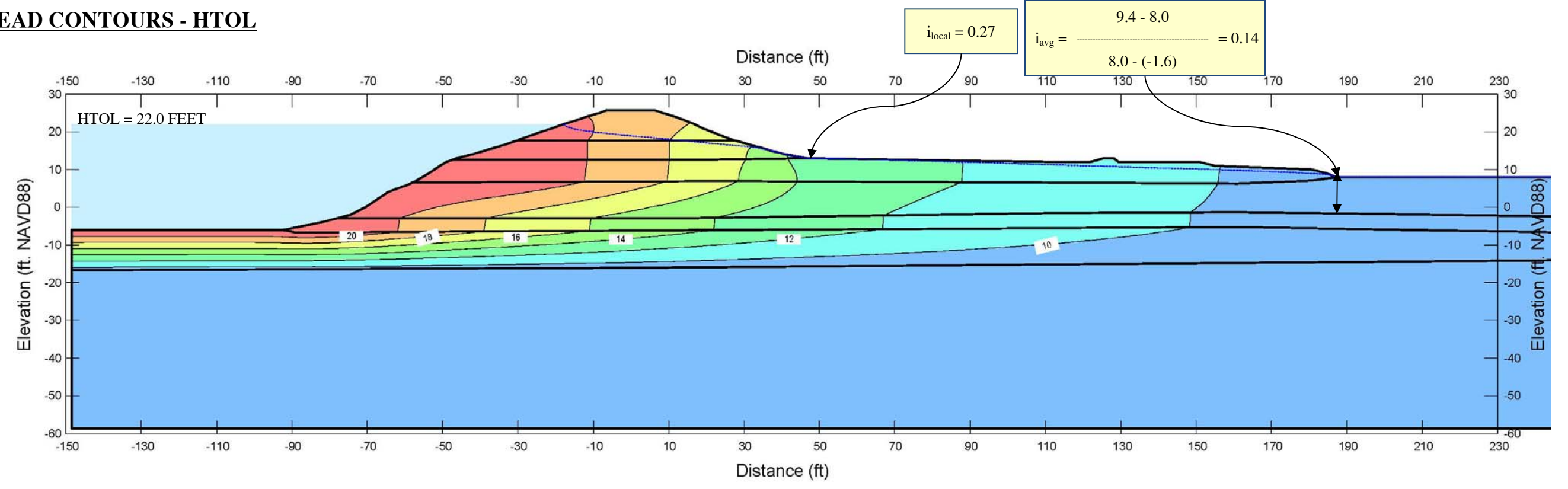
	SEEPAGE ANALYSIS REACH F1A - STA 313+75 RECLAMATION DISTRICT NO. 17 SAN JOAQUIN COUNTY, CALIFORNIA		PROJECT NO.: 5747.005.000	FIGURE NO. E-22-B
			SCALE: NO SCALE	
			DRAWN BY: ZR	CHECKED BY: NS

COPYRIGHT © 2014 BY ENGEO INCORPORATED. THIS DOCUMENT MAY NOT BE REPRODUCED IN WHOLE OR IN PART BY ANY MEANS WHATSOEVER, NOR MAY IT BE QUOTED OR EXCERPTED WITHOUT THE EXPRESS WRITTEN CONSENT OF ENGEO INCORPORATED.

**GEOMETRY OF MODEL**



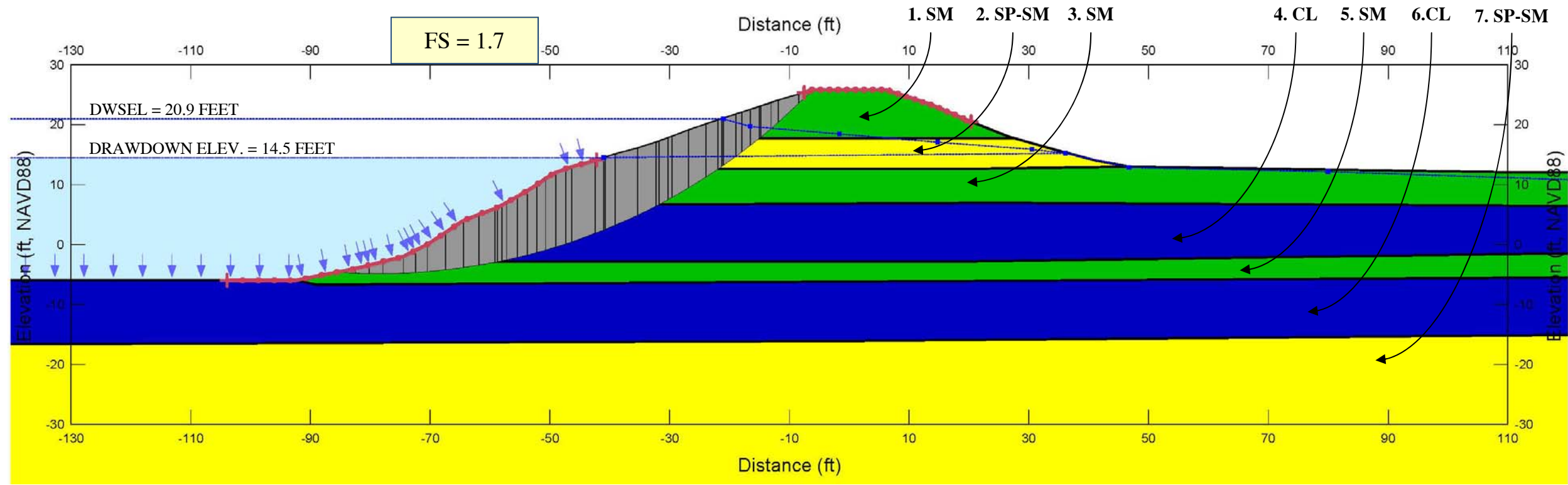
**TOTAL HEAD CONTOURS - HTOL**



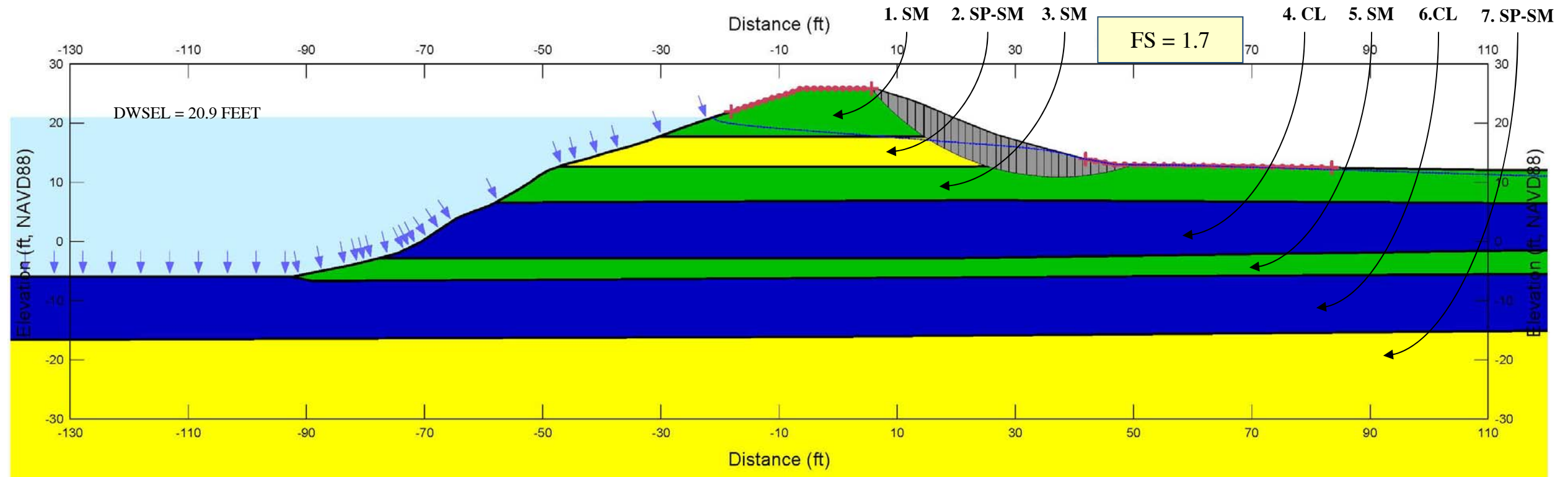
	SEEPAGE ANALYSIS REACH F1A - STA 313+75 RECLAMATION DISTRICT NO. 17 SAN JOAQUIN COUNTY, CALIFORNIA		PROJECT NO.: 5747.005.000	FIGURE NO.
			SCALE: NO SCALE	E-22-C
			DRAWN BY: ZR	

COPYRIGHT © 2014 BY ENGEO INCORPORATED. THIS DOCUMENT MAY NOT BE REPRODUCED IN WHOLE OR IN PART BY ANY MEANS WHATSOEVER, NOR MAY IT BE QUOTED OR EXCERPTED WITHOUT THE EXPRESS WRITTEN CONSENT OF ENGEO INCORPORATED.

### WATERSIDE RAPID DRAWDOWN



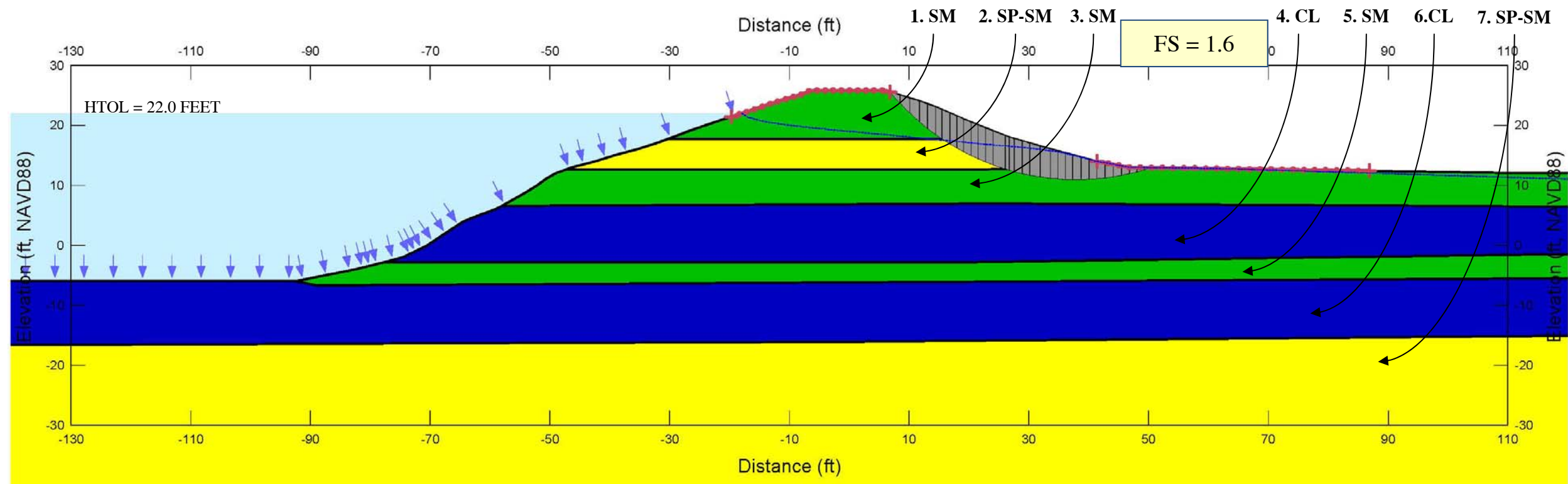
### LANDSIDE STEADY STATE SEEPAGE - 200 YEAR



	STATIC SLOPE STABILITY ANALYSIS REACH F1A - STA 313+75 RECLAMATION DISTRICT NO. 17 SAN JOAQUIN COUNTY, CALIFORNIA		PROJECT NO.: 5747.005.000	FIGURE NO. <b>E-22-D</b>
			SCALE: NO SCALE	
			DRAWN BY: ZR    CHECKED BY: NS	

COPYRIGHT © 2014 BY ENGEO INCORPORATED. THIS DOCUMENT MAY NOT BE REPRODUCED IN WHOLE OR IN PART BY ANY MEANS WHATSOEVER WITHOUT THE EXPRESS WRITTEN CONSENT OF ENGEO INCORPORATED.

### LANDSIDE STEADY STATE SEEPAGE - HTOL

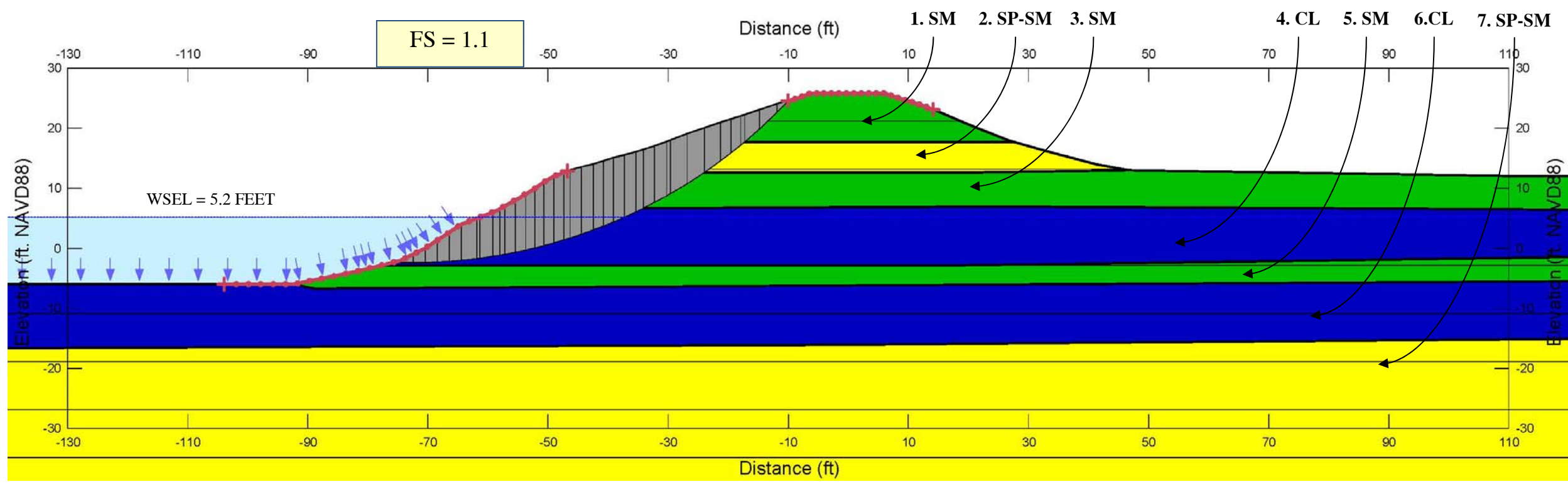
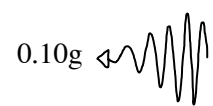


STATIC SLOPE STABILITY ANALYSIS  
 REACH F1A - STA 313+75  
 RECLAMATION DISTRICT NO. 17  
 SAN JOAQUIN COUNTY, CALIFORNIA

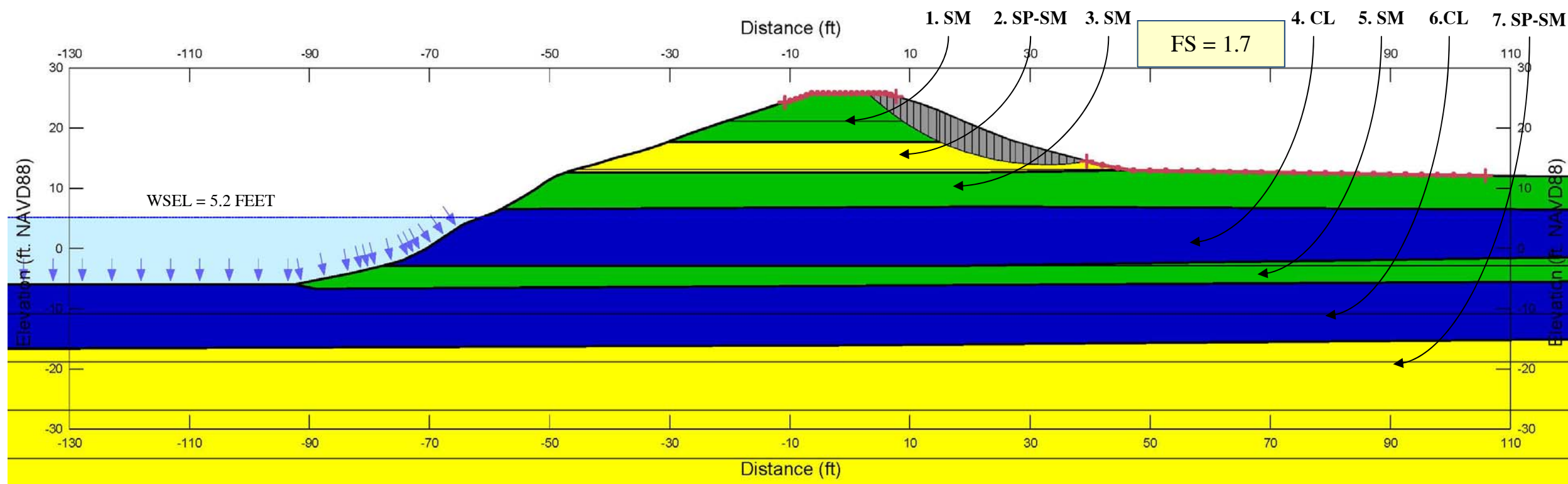
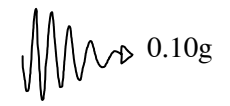
PROJECT NO.: 5747.005.000	
SCALE: NO SCALE	
DRAWN BY: ZR	CHECKED BY: NS

FIGURE NO.  
**E-22-E**

# WATERSIDE SEISMIC



# LANDSIDE SEISMIC

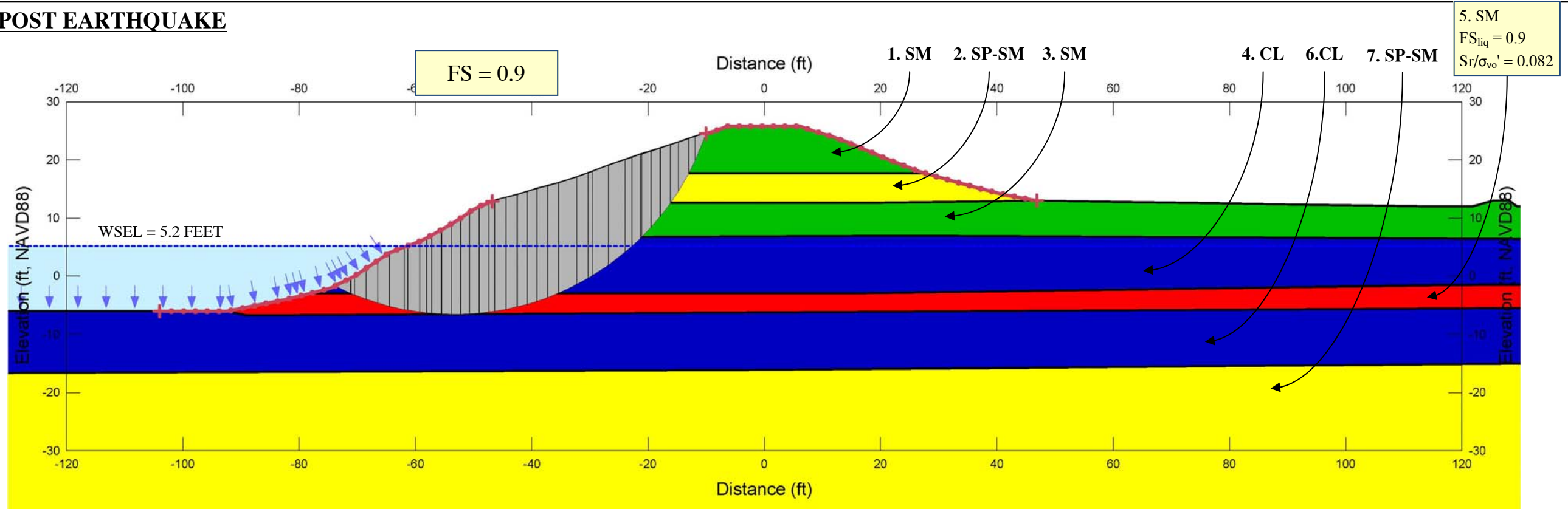


COPYRIGHT © 2014 BY ENGEO INCORPORATED. THIS DOCUMENT MAY NOT BE REPRODUCED IN WHOLE OR IN PART BY ANY MEANS WHATSOEVER, NOR MAY IT BE QUOTED OR EXCERPTED WITHOUT THE EXPRESS WRITTEN CONSENT OF ENGEO INCORPORATED.

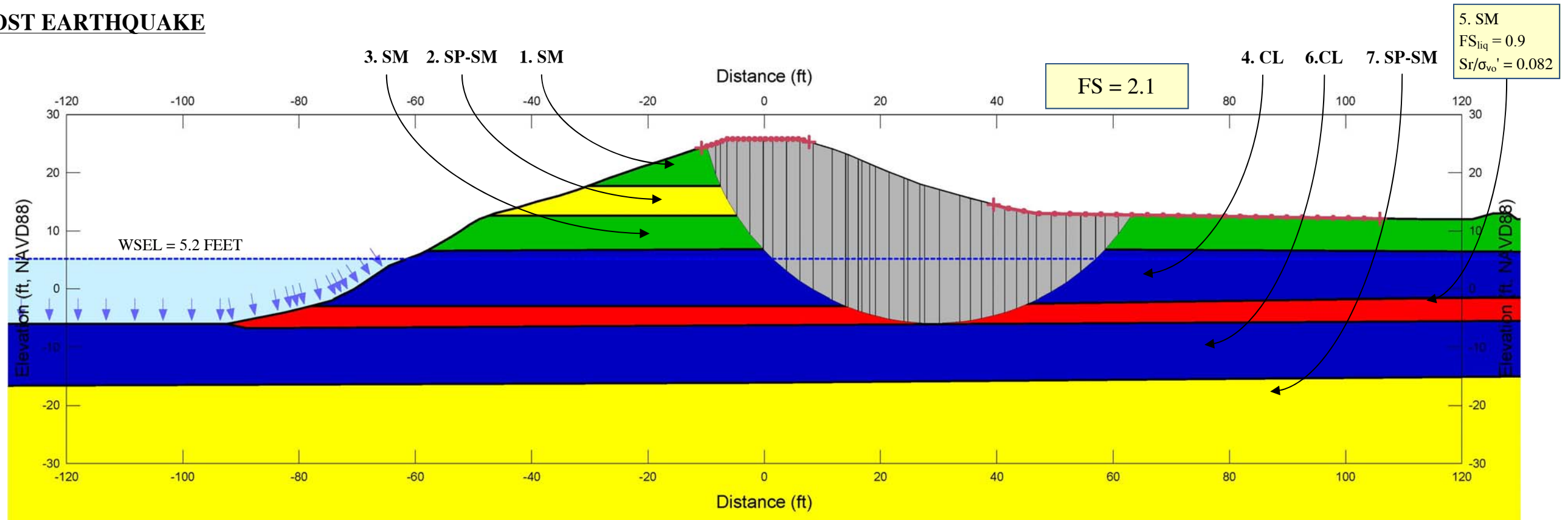
	<b>SEISMIC SLOPE STABILITY ANALYSIS</b> REACH F1A - STA 313+75 RECLAMATION DISTRICT NO. 17 SAN JOAQUIN COUNTY, CALIFORNIA		PROJECT NO.: 5747.005.000	FIGURE NO.  <b>E-22-F</b>
			SCALE: NO SCALE	
			DRAWN BY: ZR    CHECKED BY: NS	

COPYRIGHT © 2014 BY ENGEO INCORPORATED. THIS DOCUMENT MAY NOT BE REPRODUCED IN WHOLE OR IN PART BY ANY MEANS WHATSOEVER, NOR MAY IT BE QUOTED OR EXCERPTED WITHOUT THE EXPRESS WRITTEN CONSENT OF ENGEO INCORPORATED.

### WATERSIDE POST EARTHQUAKE



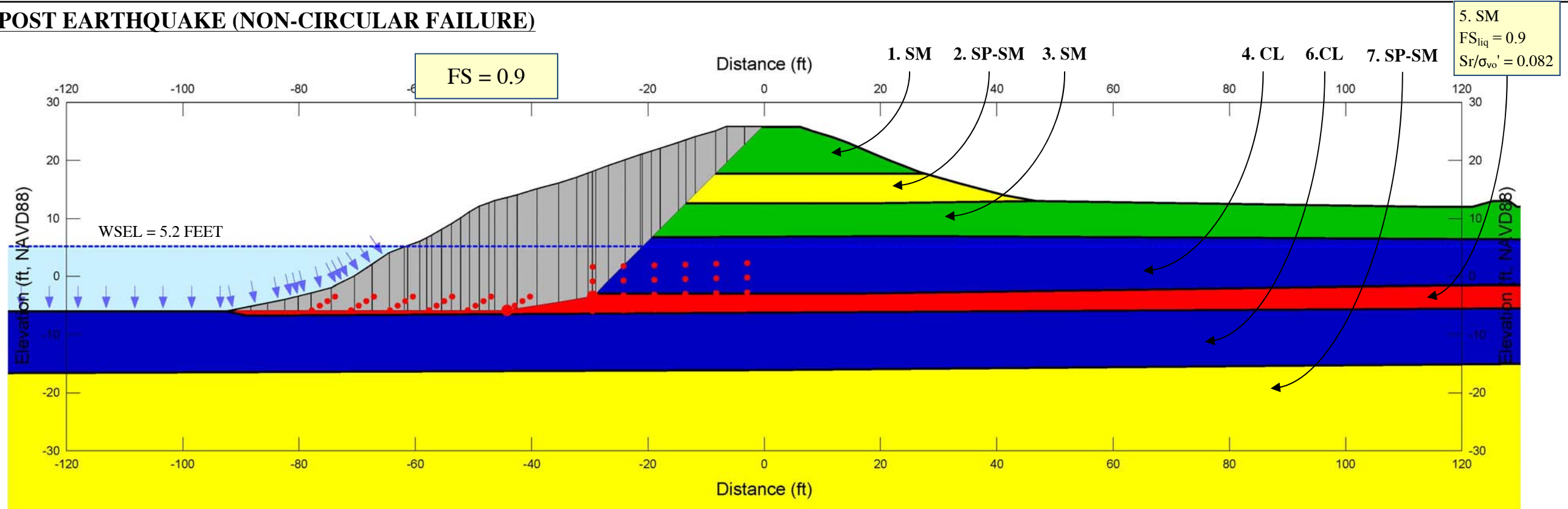
### LANDSIDE POST EARTHQUAKE



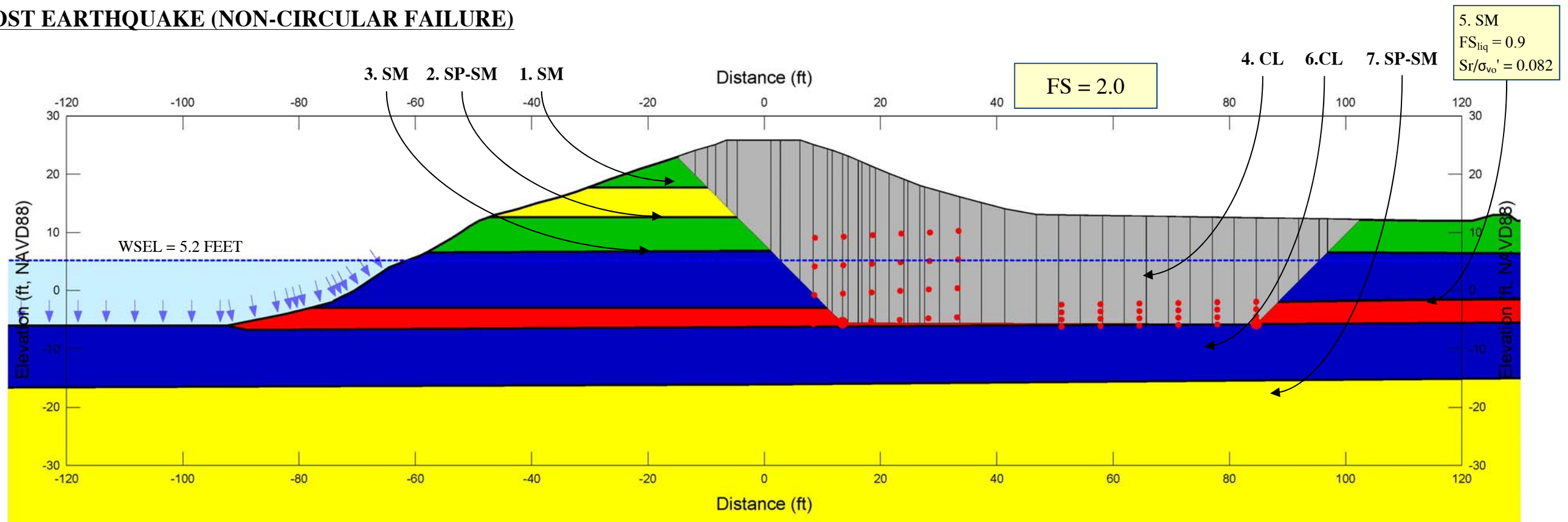
	SEISMIC SLOPE STABILITY ANALYSIS REACH F1A - STA 313+75 RECLAMATION DISTRICT NO. 17 SAN JOAQUIN COUNTY, CALIFORNIA		PROJECT NO.: 5747.005.000	FIGURE NO. <b>E-22-G</b>
			SCALE: NO SCALE	
			DRAWN BY: BA    CHECKED BY: CC	

COPYRIGHT © 2014 BY ENGEO INCORPORATED. THIS DOCUMENT MAY NOT BE REPRODUCED IN WHOLE OR IN PART BY ANY MEANS WHATSOEVER, NOR MAY IT BE QUOTED OR EXCERPTED WITHOUT THE EXPRESS WRITTEN CONSENT OF ENGEO INCORPORATED.

**WATERSIDE POST EARTHQUAKE (NON-CIRCULAR FAILURE)**



**LANDSIDE POST EARTHQUAKE (NON-CIRCULAR FAILURE)**



SEISMIC SLOPE STABILITY ANALYSIS  
 REACH F1A - STA 313+75  
 RECLAMATION DISTRICT NO. 17  
 SAN JOAQUIN COUNTY, CALIFORNIA

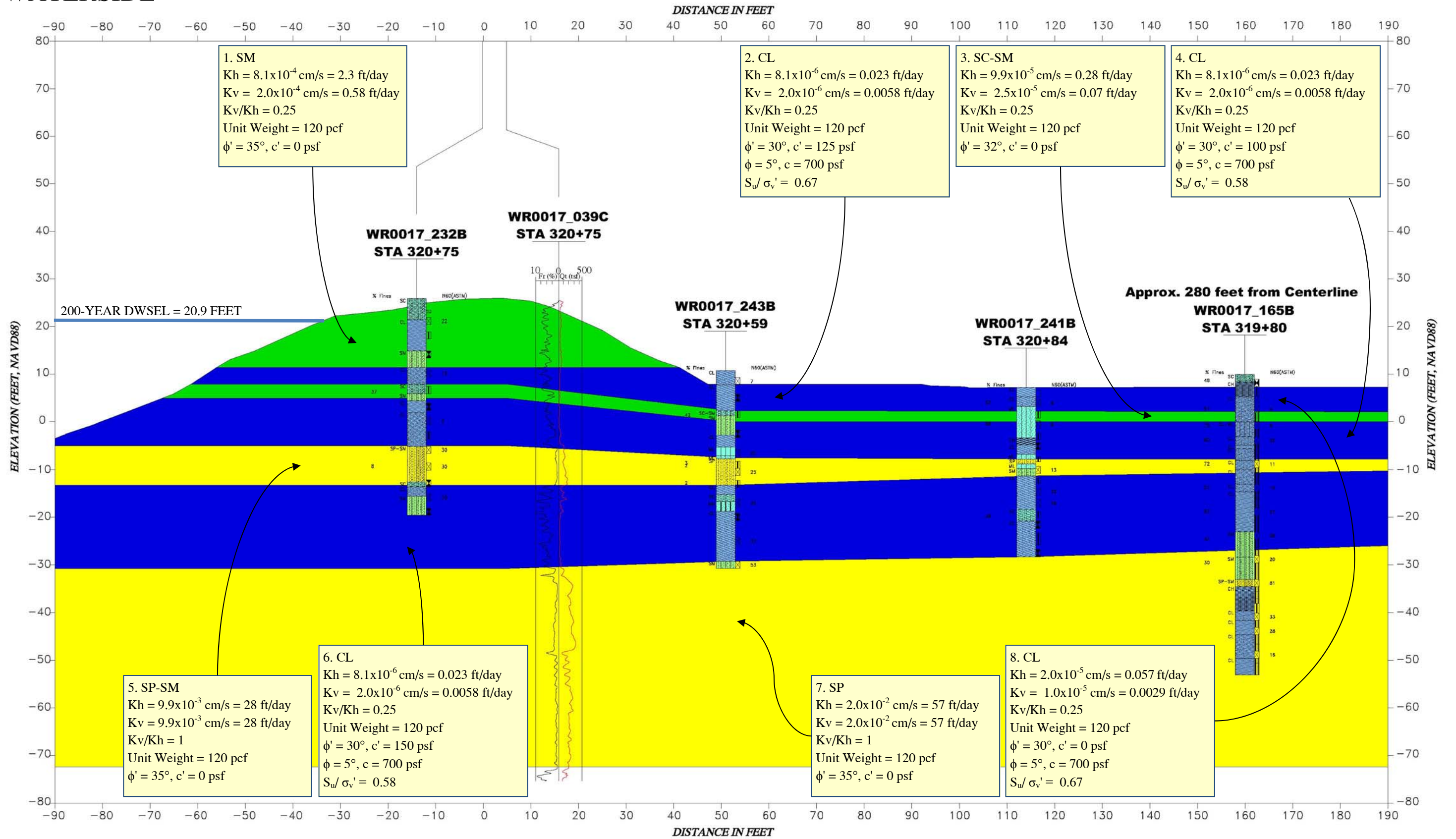
PROJECT NO.: 5747.005.000	
SCALE:	NO SCALE
DRAWN BY:	BA
CHECKED BY:	CC

FIGURE NO.

E-22-H

# WATERSIDE

# LANDSIDE



COPYRIGHT © 2014 BY ENGEO INCORPORATED. THIS DOCUMENT MAY NOT BE REPRODUCED IN WHOLE OR IN PART BY ANY MEANS WHATSOEVER, NOR MAY IT BE QUOTED OR EXCERPTED WITHOUT THE EXPRESS WRITTEN CONSENT OF ENGEO INCORPORATED.



CROSS SECTION & MATERIAL PARAMETERS  
 REACH F1B - STA 320+65  
 RECLAMATION DISTRICT NO. 17  
 SAN JOAQUIN COUNTY, CALIFORNIA

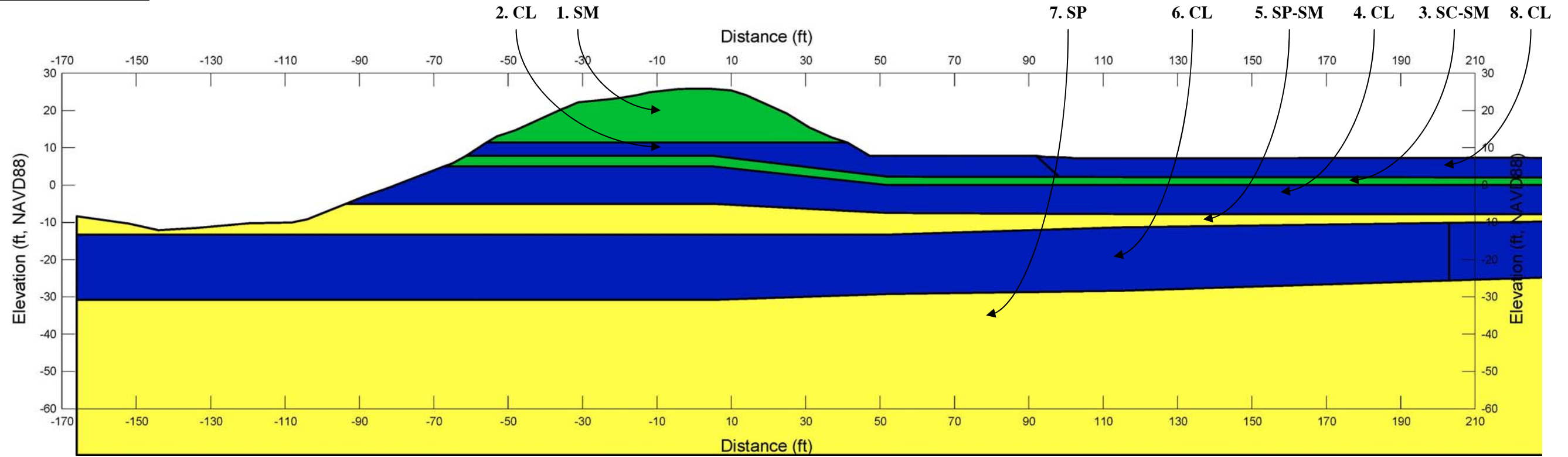
PROJECT NO.: 5747.005.000	
SCALE:	NO SCALE
DRAWN BY:	ZR
CHECKED BY:	NS

FIGURE NO.  
**E-23-A**

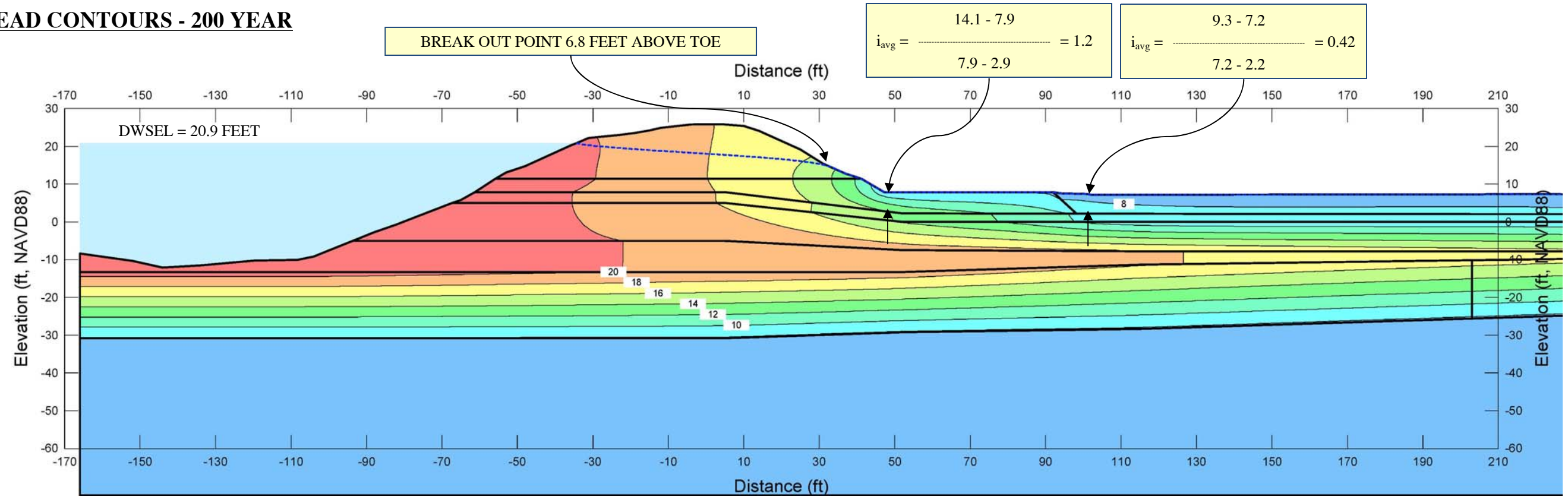


COPYRIGHT © 2014 BY ENGEO INCORPORATED. THIS DOCUMENT MAY NOT BE REPRODUCED IN WHOLE OR IN PART BY ANY MEANS WHATSOEVER, NOR MAY IT BE QUOTED OR EXCERPTED WITHOUT THE EXPRESS WRITTEN CONSENT OF ENGEO INCORPORATED.

**GEOMETRY OF MODEL**



**TOTAL HEAD CONTOURS - 200 YEAR**



SEEPAGE ANALYSIS  
 REACH F1B - STA 320+65  
 RECLAMATION DISTRICT NO. 17  
 SAN JOAQUIN COUNTY, CALIFORNIA

PROJECT NO.: 5747.005.000

SCALE: NO SCALE

DRAWN BY: ZR

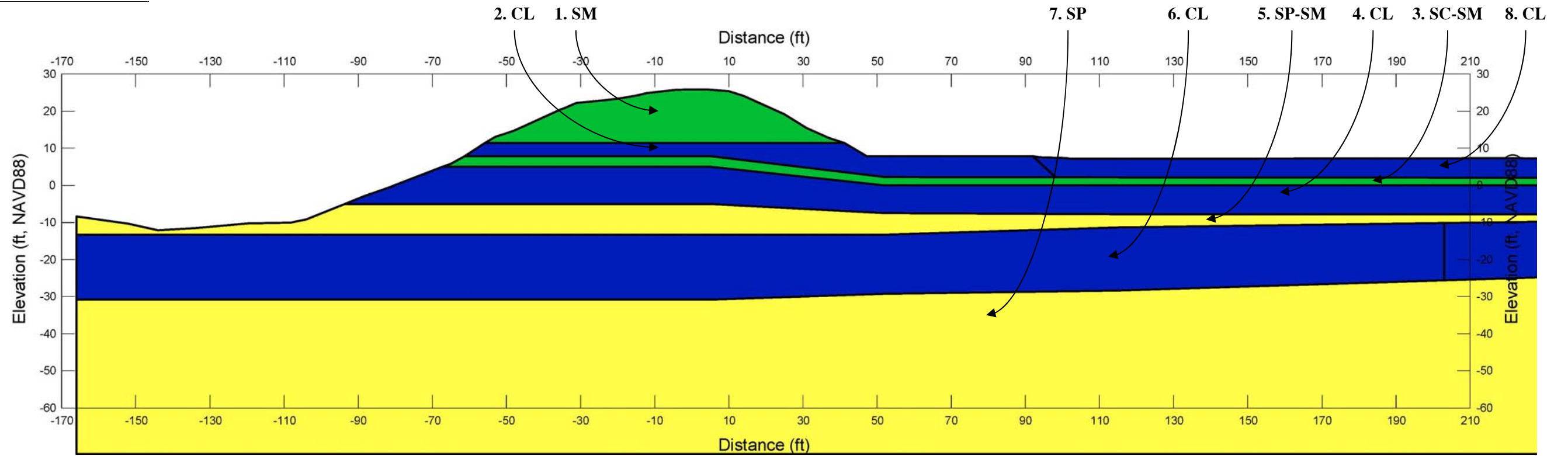
CHECKED BY: NS

FIGURE NO.

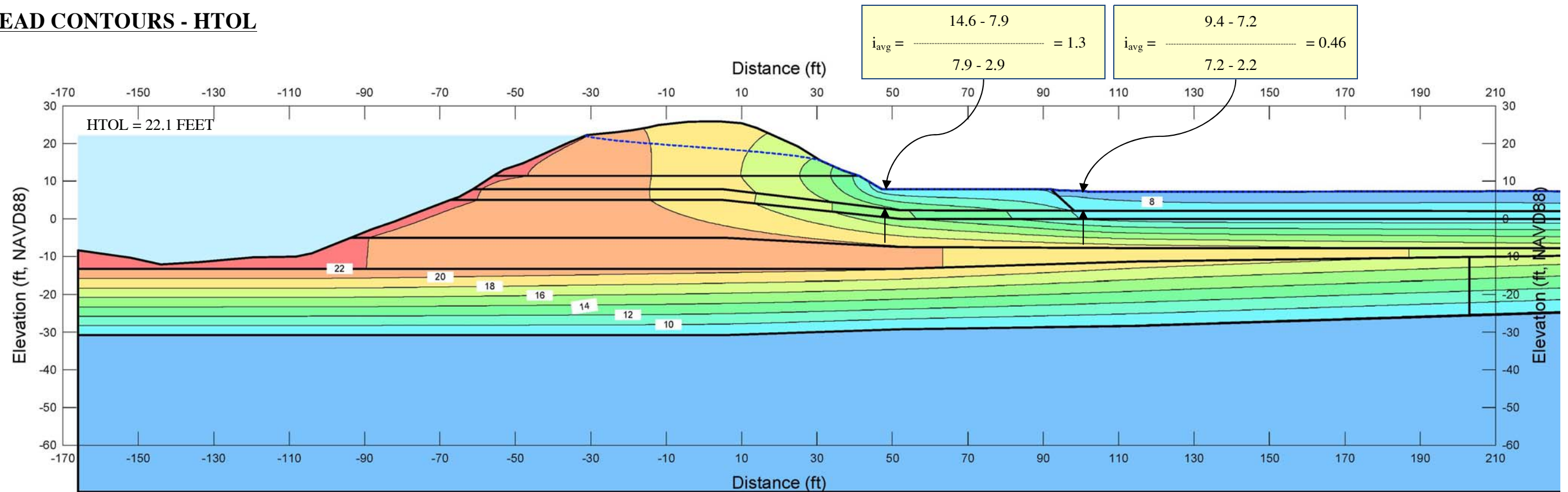
E-23-B


COPYRIGHT © 2014 BY ENGEO INCORPORATED. THIS DOCUMENT MAY NOT BE REPRODUCED IN WHOLE OR IN PART BY ANY MEANS WHATSOEVER WITHOUT THE EXPRESS WRITTEN CONSENT OF ENGEO INCORPORATED.

### GEOMETRY OF MODEL



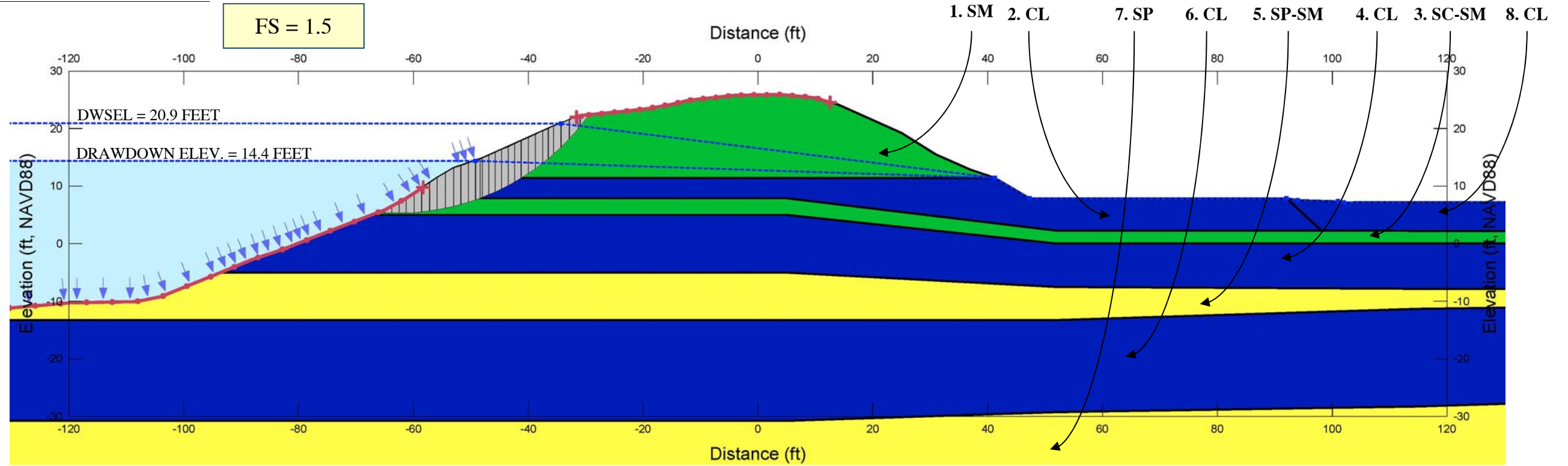
### TOTAL HEAD CONTOURS - HTOL



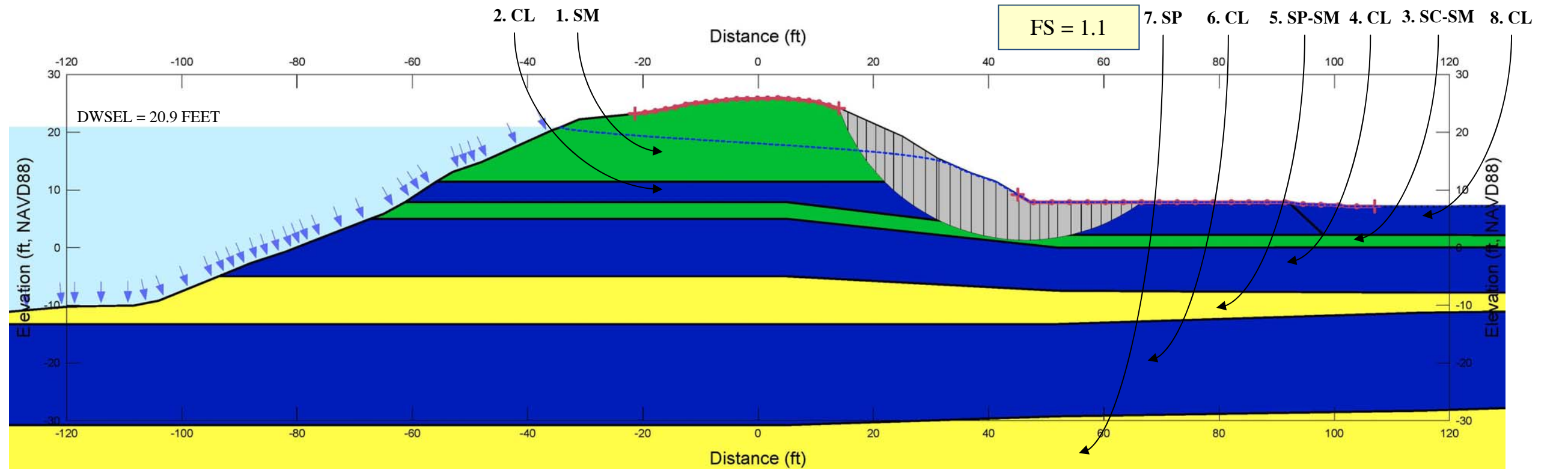
 Expect Excellence	SEEPAGE ANALYSIS REACH F1B - STA 320+65 RECLAMATION DISTRICT NO. 17 SAN JOAQUIN COUNTY, CALIFORNIA		PROJECT NO.: 5747.005.000	FIGURE NO.
			SCALE: NO SCALE	E-23-C
			DRAWN BY: ZR	

COPYRIGHT © 2014 BY ENGEO INCORPORATED. THIS DOCUMENT MAY NOT BE REPRODUCED IN WHOLE OR IN PART BY ANY MEANS WHATSOEVER, NOR MAY IT BE QUOTED OR EXCERPTED WITHOUT THE EXPRESS WRITTEN CONSENT OF ENGEO INCORPORATED.

### WATERSIDE RAPID DRAWDOWN



### LANDSIDE STEADY STATE SEEPAGE - 200 YEAR



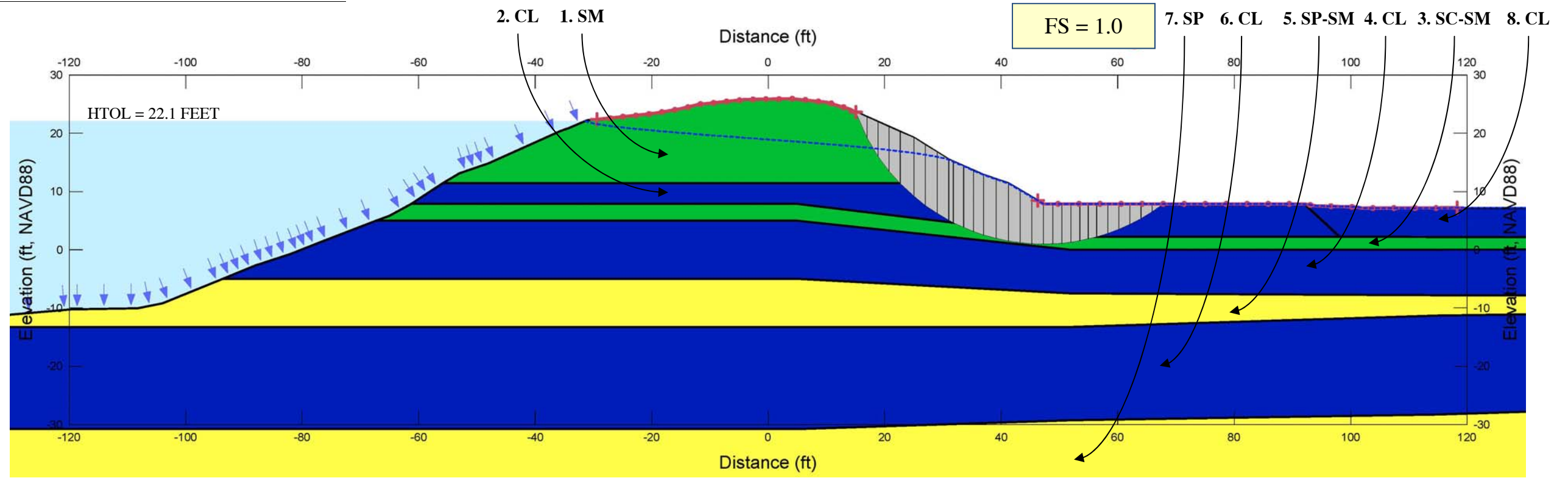
STATIC SLOPE STABILITY ANALYSIS  
 REACH F1B - STA 320+65  
 RECLAMATION DISTRICT NO. 17  
 SAN JOAQUIN COUNTY, CALIFORNIA

PROJECT NO.: 5747.005.000	
SCALE: NO SCALE	
DRAWN BY: ZR	CHECKED BY: NS

FIGURE NO.  
**E-23-D**

COPYRIGHT © 2014 BY ENGEO INCORPORATED. THIS DOCUMENT MAY NOT BE REPRODUCED IN WHOLE OR IN PART BY ANY MEANS WHATSOEVER, NOR MAY IT BE QUOTED OR EXCERPTED WITHOUT THE EXPRESS WRITTEN CONSENT OF ENGEO INCORPORATED.

### LANDSIDE STEADY STATE SEEPAGE - HTOL



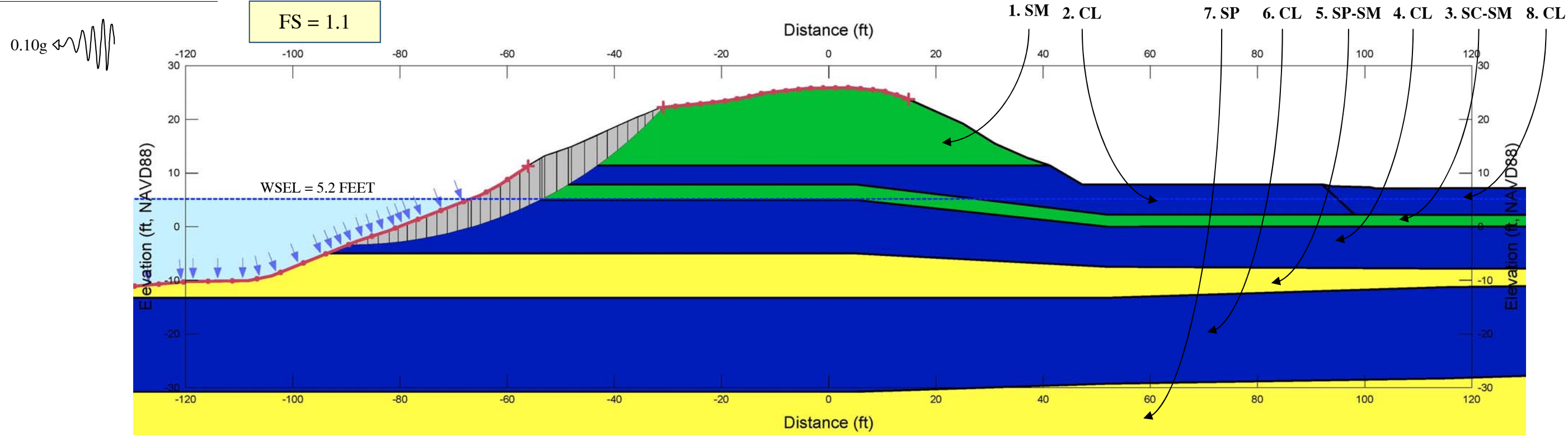
STATIC SLOPE STABILITY ANALYSIS  
 REACH F1B - STA 320+65  
 RECLAMATION DISTRICT NO. 17  
 SAN JOAQUIN COUNTY, CALIFORNIA

PROJECT NO.: 5747.005.000	
SCALE:	NO SCALE
DRAWN BY: ZR	CHECKED BY: NS

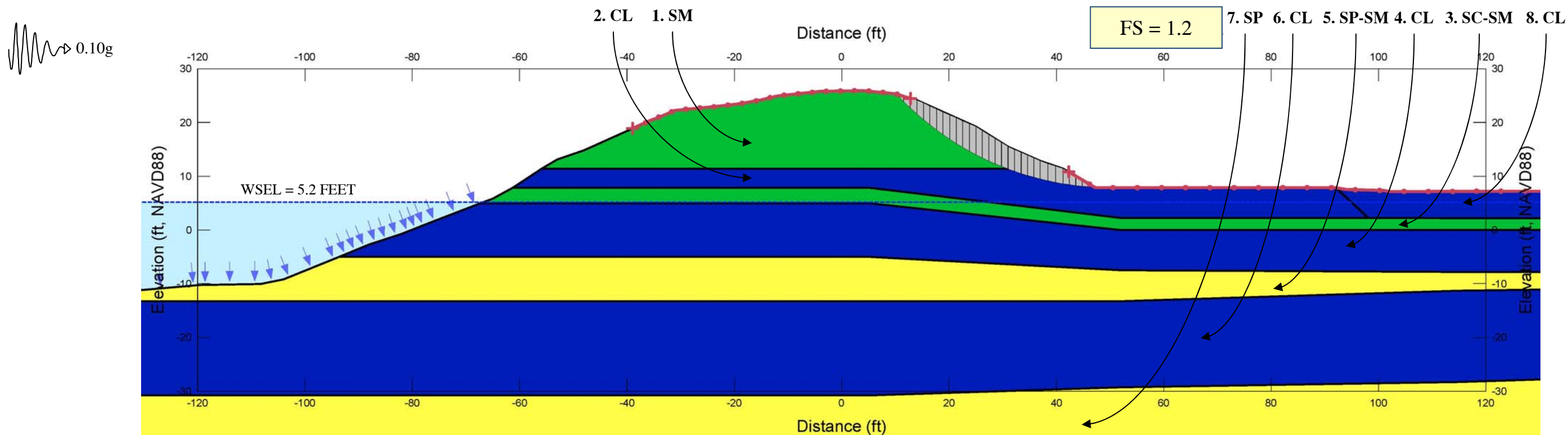
FIGURE NO.  
**E-23-E**

COPYRIGHT © 2014 BY ENGEO INCORPORATED. THIS DOCUMENT MAY NOT BE REPRODUCED IN WHOLE OR IN PART BY ANY MEANS WHATSOEVER, NOR MAY IT BE QUOTED OR EXCERPTED WITHOUT THE EXPRESS WRITTEN CONSENT OF ENGEO INCORPORATED.

### WATERSIDE SEISMIC



### LANDSIDE SEISMIC



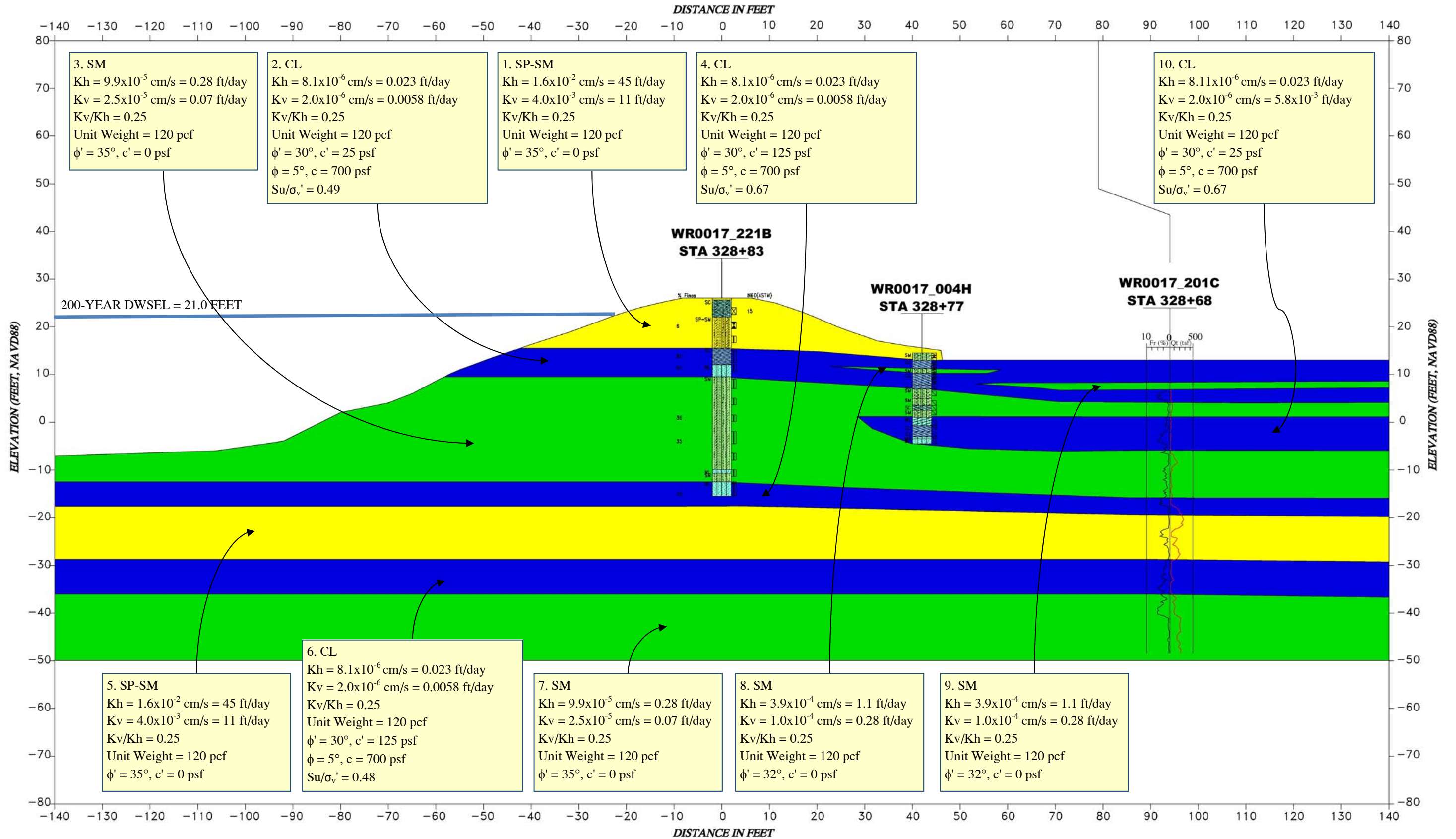
SEISMIC SLOPE STABILITY ANALYSIS  
 REACH F1B - STA 320+65  
 RECLAMATION DISTRICT NO. 17  
 SAN JOAQUIN COUNTY, CALIFORNIA

PROJECT NO.: 5747.005.000	
SCALE:	NO SCALE
DRAWN BY:	ZR
CHECKED BY:	NS

FIGURE NO.  
**E-23-F**

# WATERSIDE

# LANDSIDE



COPYRIGHT © 2014 BY ENGEO INCORPORATED. THIS DOCUMENT MAY NOT BE REPRODUCED IN WHOLE OR IN PART BY ANY MEANS WHATSOEVER, NOR MAY IT BE QUOTED OR EXCERPTED WITHOUT THE EXPRESS WRITTEN CONSENT OF ENGEO INCORPORATED.



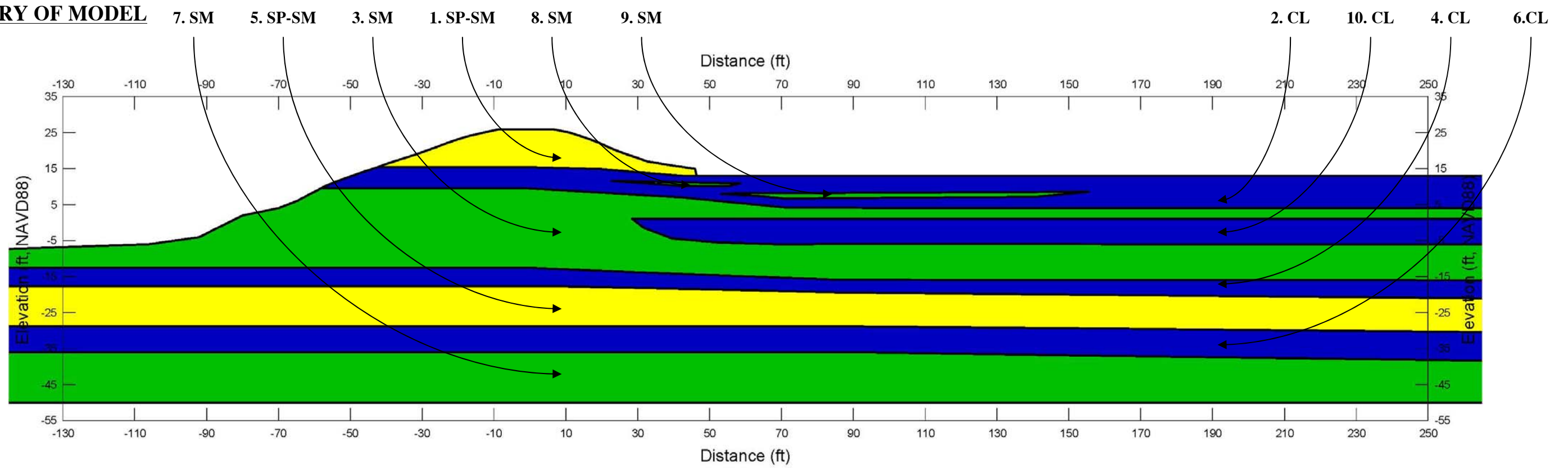
CROSS SECTION & MATERIAL PARAMETERS  
 REACH F2 - STA 329+00  
 RECLAMATION DISTRICT NO. 17  
 SAN JOAQUIN COUNTY, CALIFORNIA

PROJECT NO.: 5747.005.000	
SCALE:	NO SCALE
DRAWN BY:	ZR
CHECKED BY:	AL

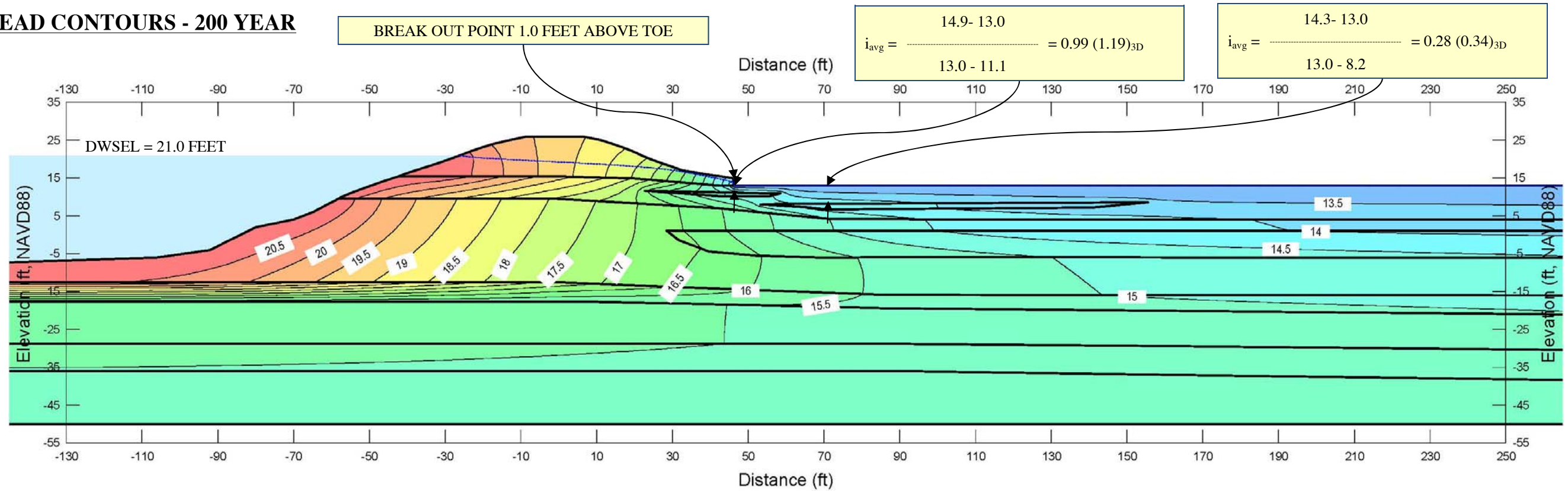
FIGURE NO.  
**E-24-A**

COPYRIGHT © 2014 BY ENGEO INCORPORATED. THIS DOCUMENT MAY NOT BE REPRODUCED IN WHOLE OR IN PART BY ANY MEANS WHATSOEVER, NOR MAY IT BE QUOTED OR EXCERPTED WITHOUT THE EXPRESS WRITTEN CONSENT OF ENGEO INCORPORATED.

### GEOMETRY OF MODEL



### TOTAL HEAD CONTOURS - 200 YEAR



Note: 3D seepage effects are accounted for.



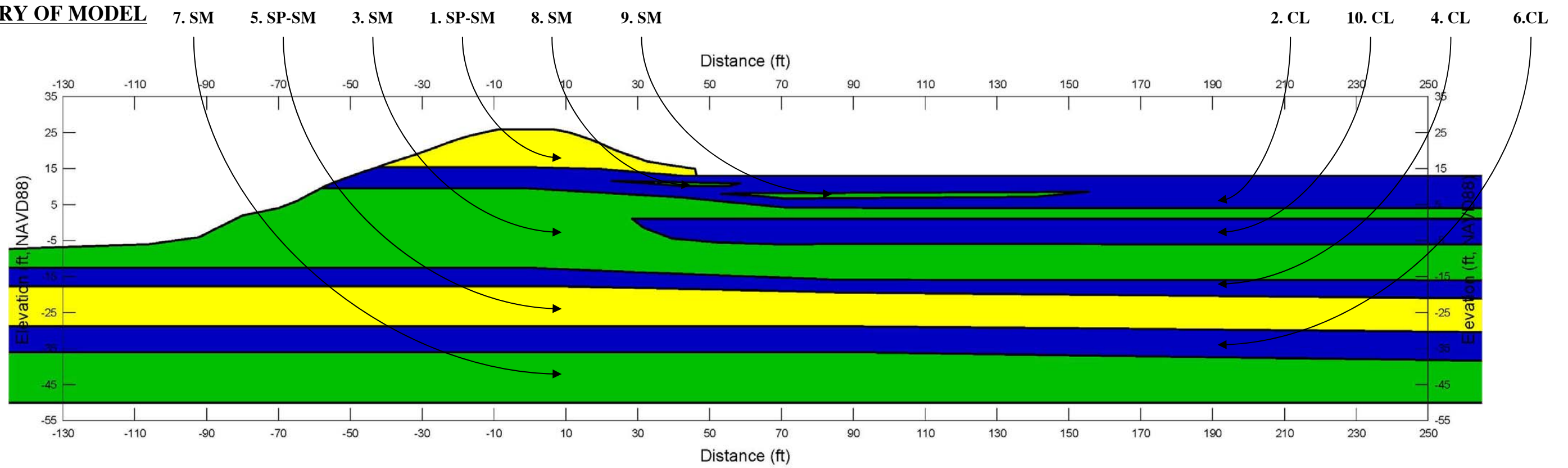
SEEPAGE ANALYSIS  
 REACH F2 - STA 329+00  
 RECLAMATION DISTRICT NO. 17  
 SAN JOAQUIN COUNTY, CALIFORNIA

PROJECT NO.: 5747.005.000	
SCALE:	NO SCALE
DRAWN BY:	ZR
CHECKED BY:	NS

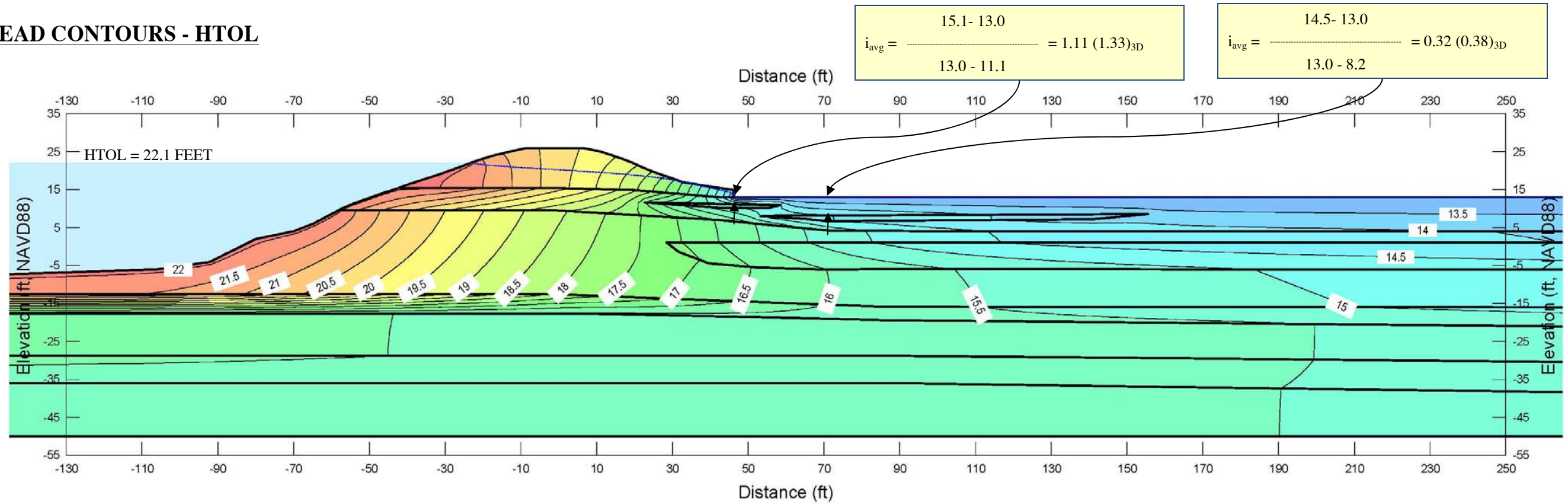
FIGURE NO.  
**E-24-B**

COPYRIGHT © 2014 BY ENGEO INCORPORATED. THIS DOCUMENT MAY NOT BE REPRODUCED IN WHOLE OR IN PART BY ANY MEANS WHATSOEVER, NOR MAY IT BE QUOTED OR EXCERPTED WITHOUT THE EXPRESS WRITTEN CONSENT OF ENGEO INCORPORATED.

### GEOMETRY OF MODEL



### TOTAL HEAD CONTOURS - HTOL



Note: 3D seepage effects are accounted for.



SEEPAGE ANALYSIS  
REACH F2 - STA 329+00  
RECLAMATION DISTRICT NO. 17  
SAN JOAQUIN COUNTY, CALIFORNIA

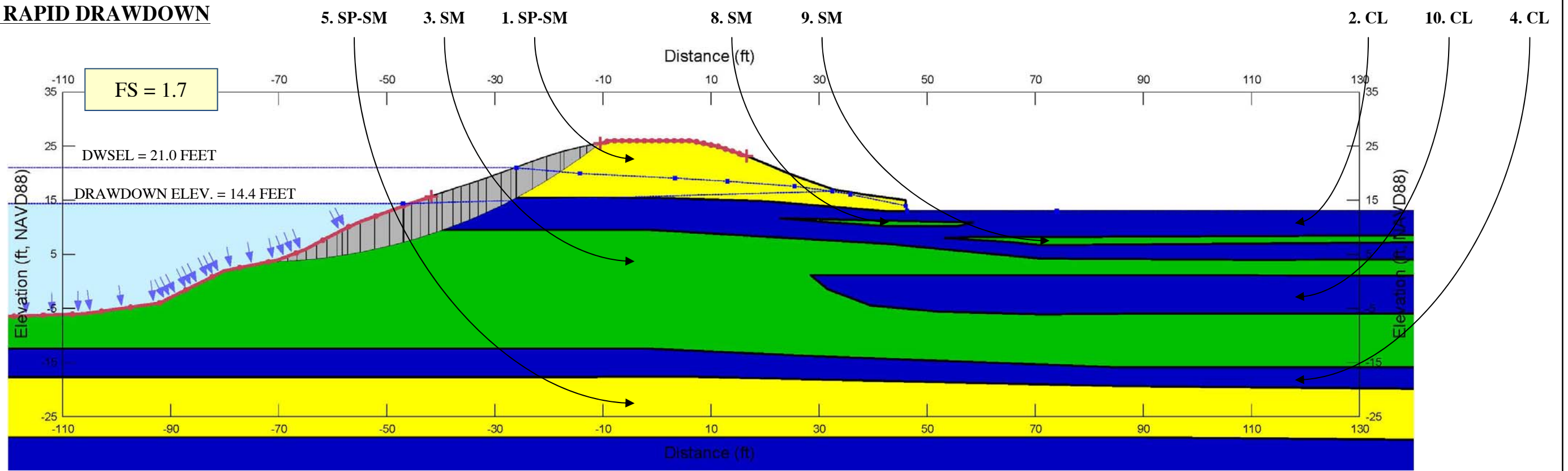
PROJECT NO.: 5747.005.000	
SCALE: NO SCALE	
DRAWN BY: ZR	CHECKED BY: NS

FIGURE NO.  
**E-24-C**

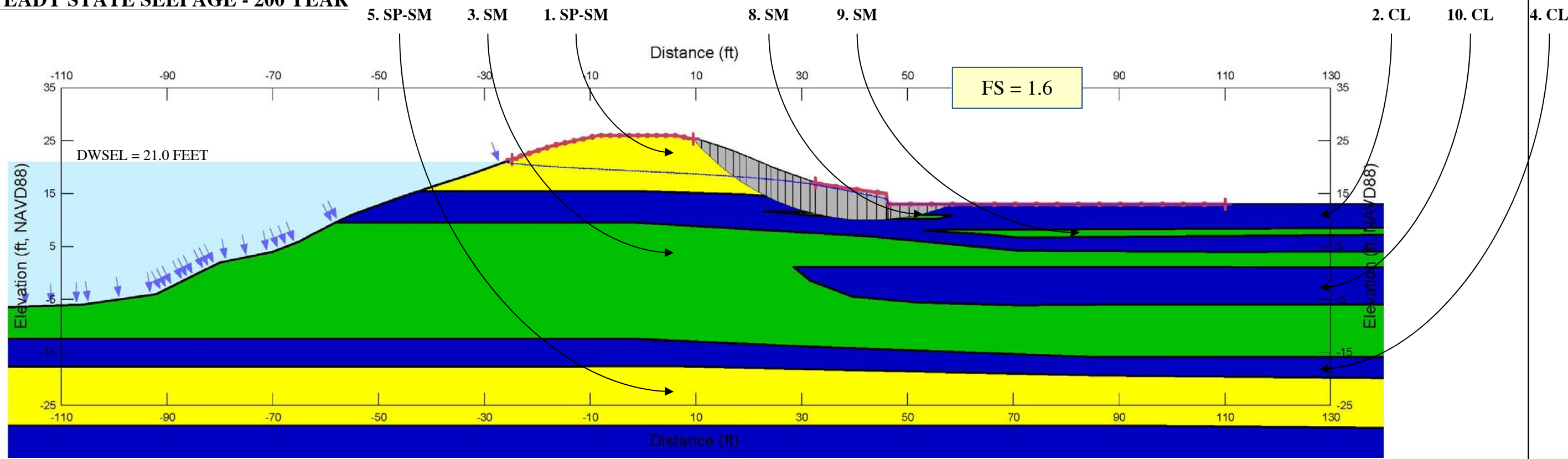


COPYRIGHT © 2014 BY ENGEO INCORPORATED. THIS DOCUMENT MAY NOT BE REPRODUCED IN WHOLE OR IN PART BY ANY MEANS WHATSOEVER, NOR MAY IT BE QUOTED OR EXCERPTED WITHOUT THE EXPRESS WRITTEN CONSENT OF ENGEO INCORPORATED.

### WATERSIDE RAPID DRAWDOWN



### LANDSIDE STEADY STATE SEEPAGE - 200 YEAR



10/16/2015 1:50 PM



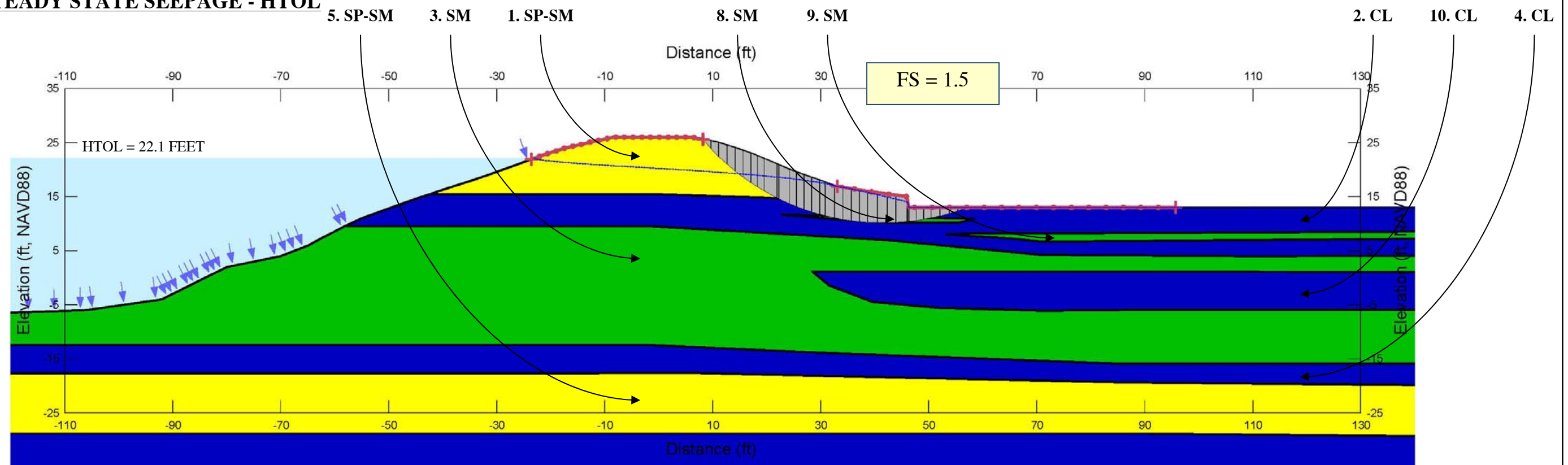
STATIC SLOPE STABILITY ANALYSIS  
 REACH F2 - STA 329+00  
 RECLAMATION DISTRICT NO. 17  
 SAN JOAQUIN COUNTY, CALIFORNIA

PROJECT NO.: 5747.005.000	
SCALE:	NO SCALE
DRAWN BY:	ZR
CHECKED BY:	NS

FIGURE NO.  
**E-24-D**

COPYRIGHT © 2014 BY ENGEO INCORPORATED. THIS DOCUMENT MAY NOT BE REPRODUCED IN WHOLE OR IN PART BY ANY MEANS WHATSOEVER WITHOUT THE EXPRESS WRITTEN CONSENT OF ENGEO INCORPORATED.

### LANDSIDE STEADY STATE SEEPAGE - HTOL



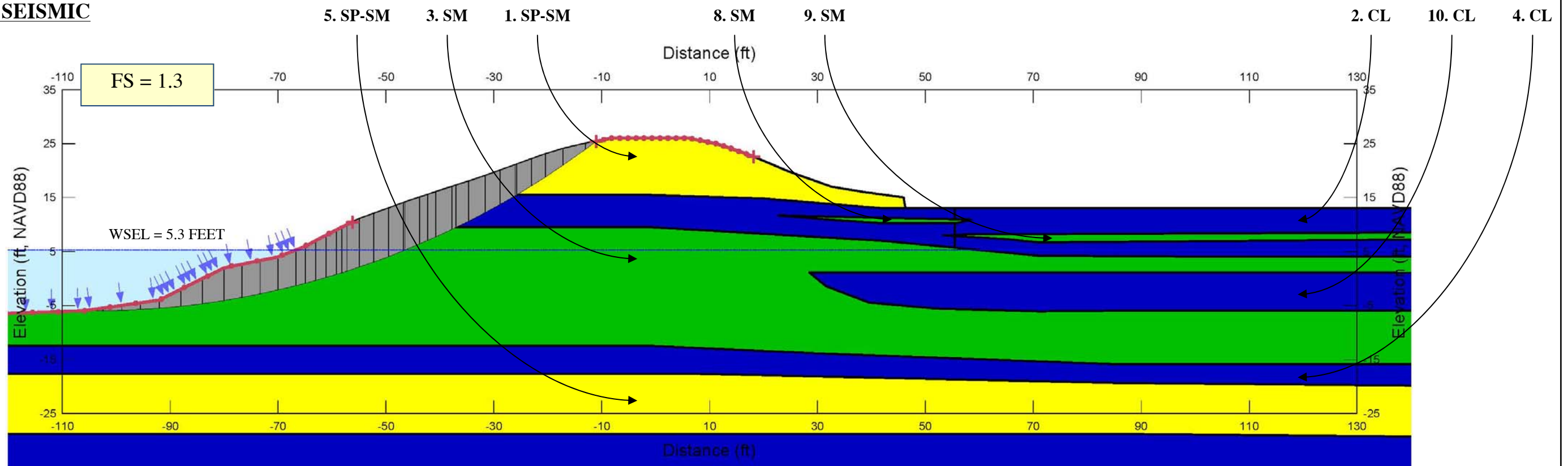
STATIC SLOPE STABILITY ANALYSIS  
 REACH F2 - STA 329+00  
 RECLAMATION DISTRICT NO. 17  
 SAN JOAQUIN COUNTY, CALIFORNIA

PROJECT NO.: 5747.005.000	
SCALE:	NO SCALE
DRAWN BY: ZR	CHECKED BY: NS

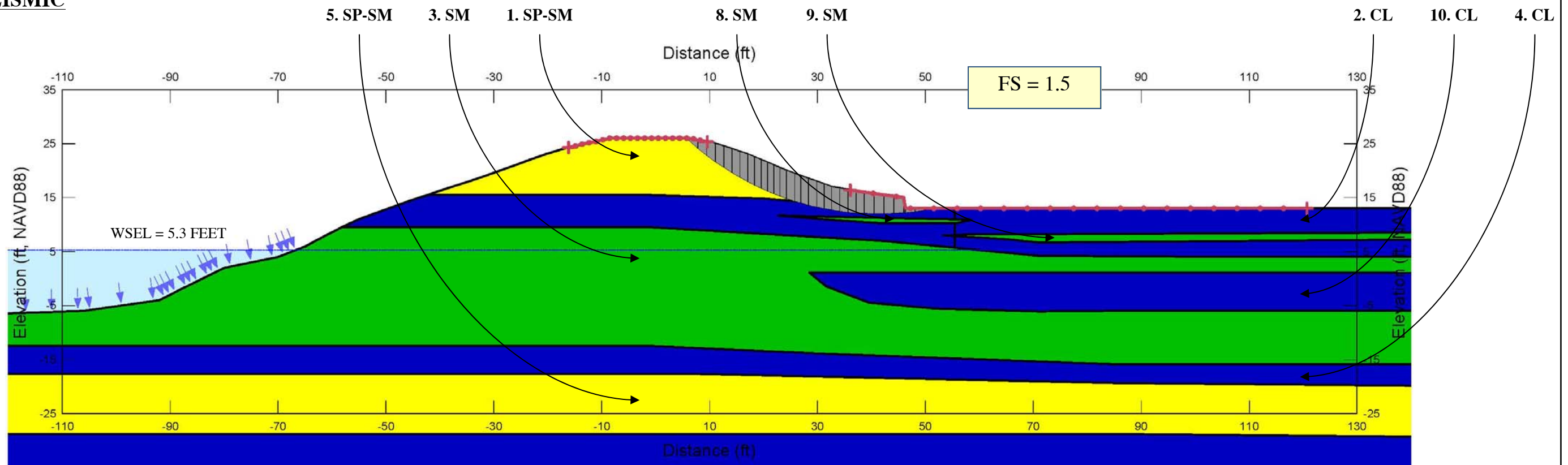
FIGURE NO.  
**E-24-E**

COPYRIGHT © 2014 BY ENGEO INCORPORATED. THIS DOCUMENT MAY NOT BE REPRODUCED IN WHOLE OR IN PART BY ANY MEANS WHATSOEVER, NOR MAY IT BE QUOTED OR EXCERPTED WITHOUT THE EXPRESS WRITTEN CONSENT OF ENGEO INCORPORATED.

### WATERSIDE SEISMIC



### LANDSIDE SEISMIC



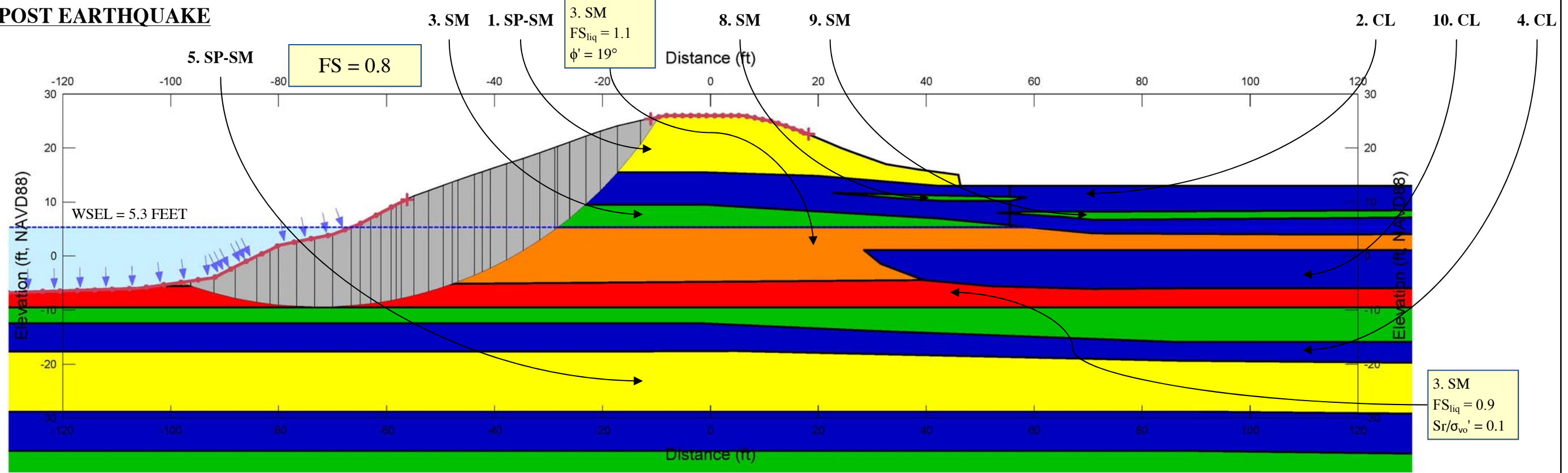
SEISMIC SLOPE STABILITY ANALYSIS  
 REACH F2 - STA 329+00  
 RECLAMATION DISTRICT NO. 17  
 SAN JOAQUIN COUNTY, CALIFORNIA

PROJECT NO.: 5747.005.000	
SCALE:	NO SCALE
DRAWN BY: ZR	CHECKED BY: NS

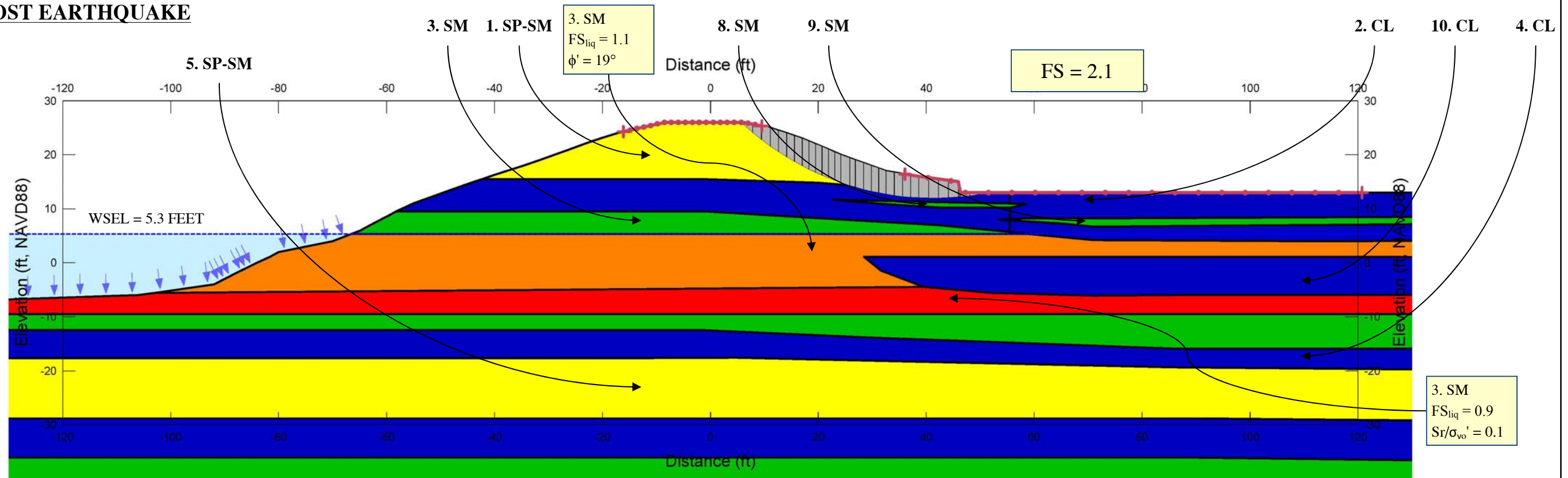
FIGURE NO.  
**E-24-F**

COPYRIGHT © 2014 BY ENGEO INCORPORATED. THIS DOCUMENT MAY NOT BE REPRODUCED IN WHOLE OR IN PART BY ANY MEANS WHATSOEVER, NOR MAY IT BE QUOTED OR EXCERPTED WITHOUT THE EXPRESS WRITTEN CONSENT OF ENGEO INCORPORATED.

### WATERSIDE POST EARTHQUAKE



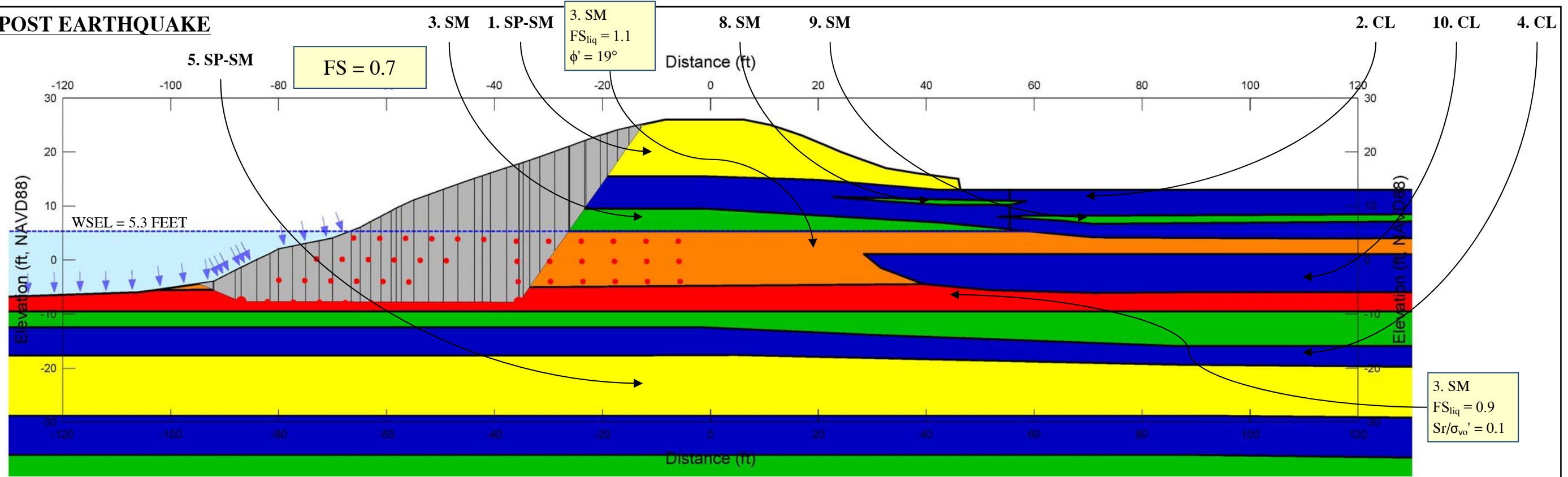
### LANDSIDE POST EARTHQUAKE



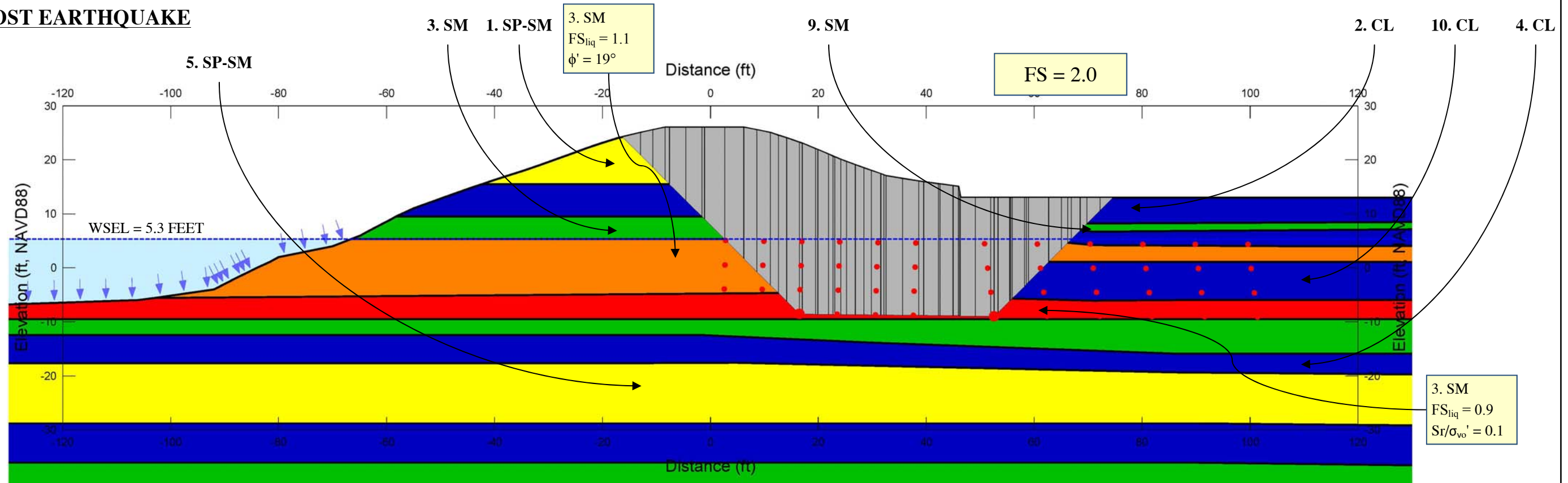
	SEISMIC SLOPE STABILITY ANALYSIS REACH F2 - STA 329+00 RECLAMATION DISTRICT NO. 17 SAN JOAQUIN COUNTY, CALIFORNIA		PROJECT NO.: 5747.005.000	FIGURE NO. <b>E-24-G</b>
			SCALE: NO SCALE	
			DRAWN BY: BA	CHECKED BY: CC

COPYRIGHT © 2014 BY ENGEO INCORPORATED. THIS DOCUMENT MAY NOT BE REPRODUCED IN WHOLE OR IN PART BY ANY MEANS WHATSOEVER, NOR MAY IT BE QUOTED OR EXCERPTED WITHOUT THE EXPRESS WRITTEN CONSENT OF ENGEO INCORPORATED.

### WATERSIDE POST EARTHQUAKE



### LANDSIDE POST EARTHQUAKE



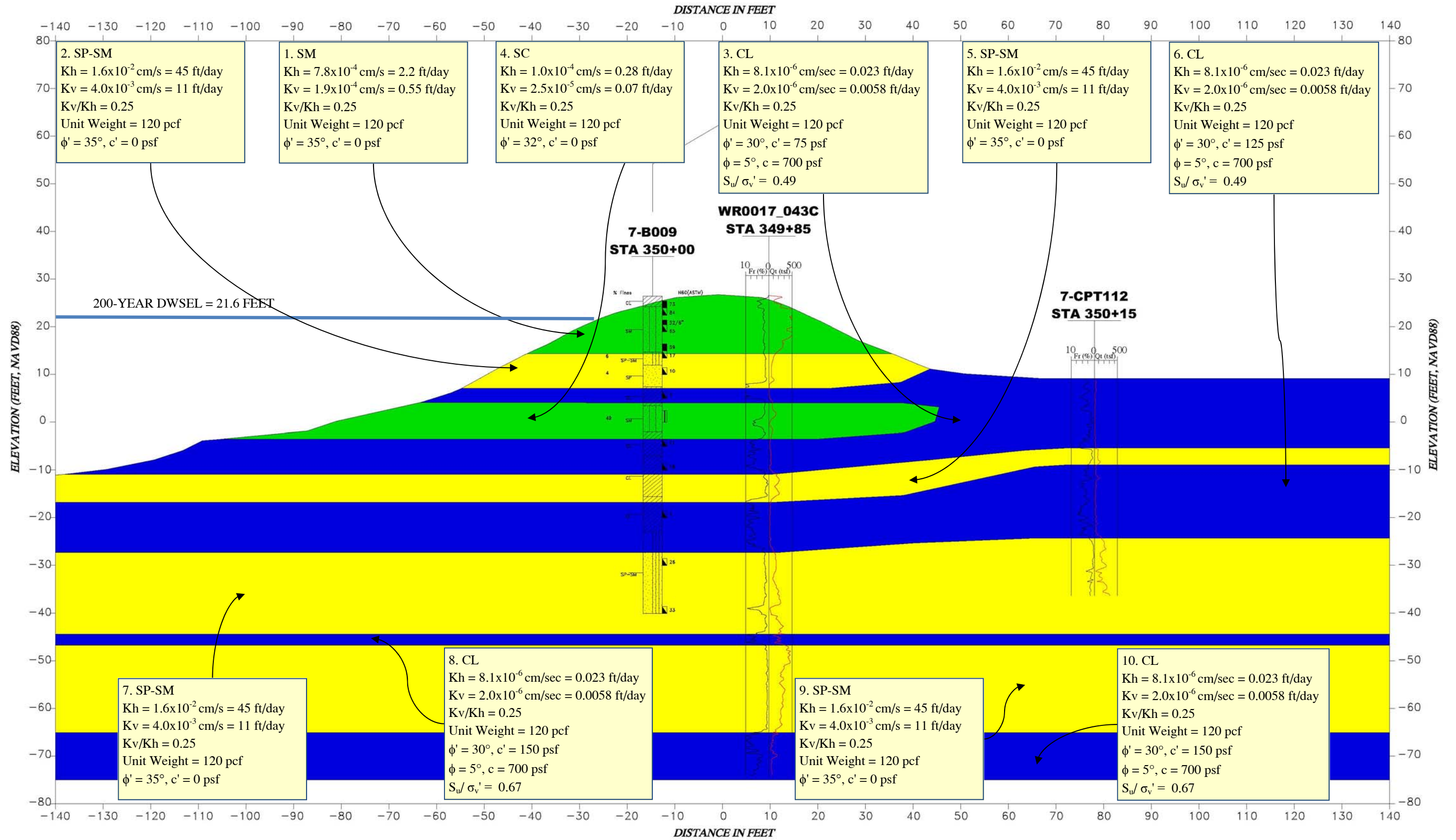
SEISMIC SLOPE STABILITY ANALYSIS  
 REACH F2 - STA 329+00  
 RECLAMATION DISTRICT NO. 17  
 SAN JOAQUIN COUNTY, CALIFORNIA

PROJECT NO.: 5747.005.000	
SCALE:	NO SCALE
DRAWN BY:	BA
CHECKED BY:	CC

FIGURE NO.  
**E-24-H**

# WATERSIDE

# LANDSIDE



COPYRIGHT © 2014 BY ENGEO INCORPORATED. THIS DOCUMENT MAY NOT BE REPRODUCED IN WHOLE OR IN PART BY ANY MEANS WHATSOEVER, NOR MAY IT BE QUOTED OR EXCERPTED WITHOUT THE EXPRESS WRITTEN CONSENT OF ENGEO INCORPORATED.

10/16/2015 1:51 PM



**CROSS SECTION & MATERIAL PARAMETERS**  
 REACH F3 - STA 350+00  
 RECLAMATION DISTRICT NO. 17  
 SAN JOAQUIN COUNTY, CALIFORNIA

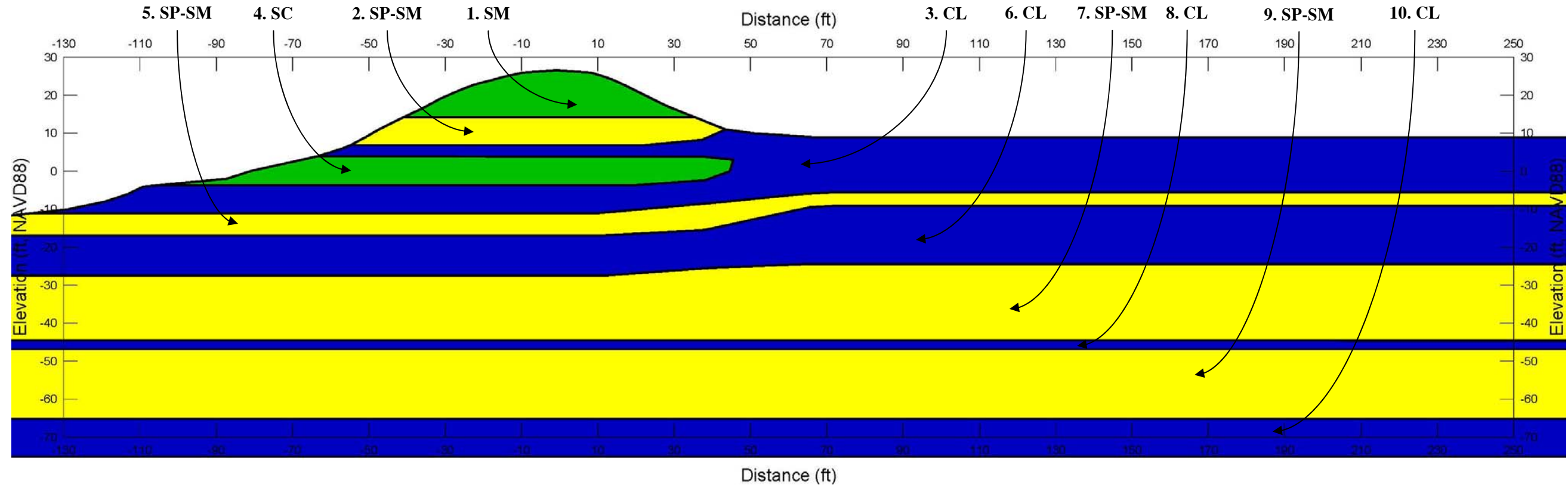
PROJECT NO.: 5747.005.000  
 SCALE: NO SCALE  
 DRAWN BY: ZH CHECKED BY: NS

FIGURE NO.

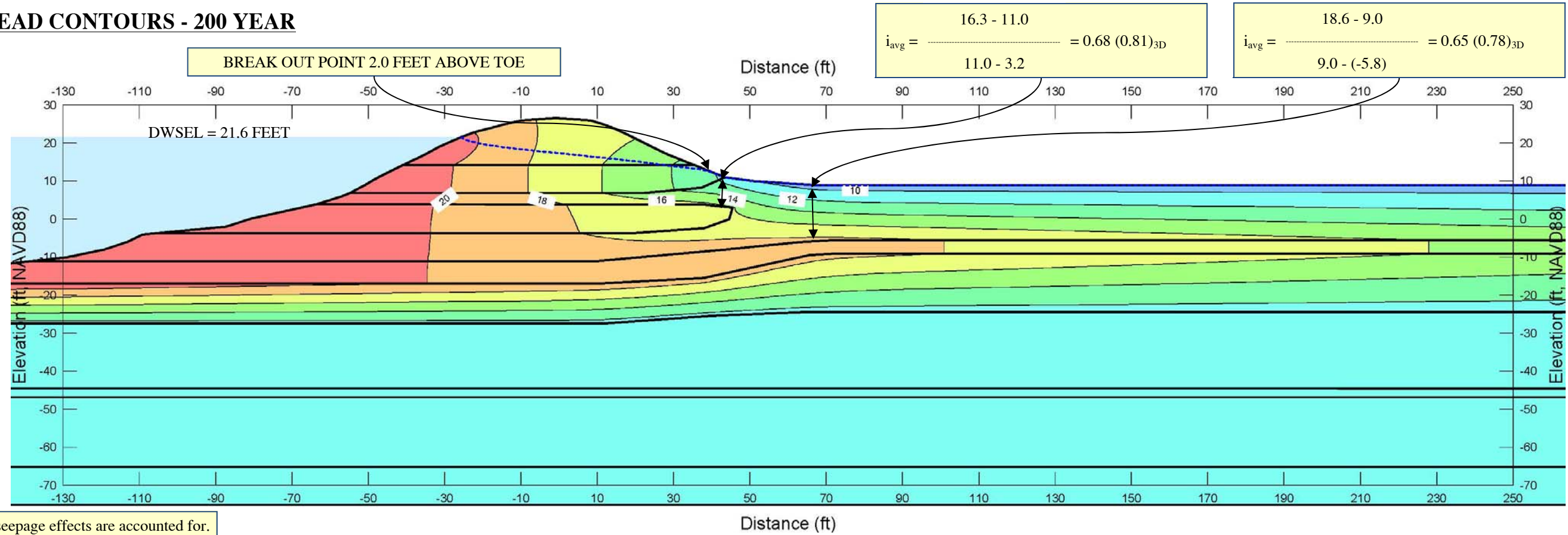
E-25-A

COPYRIGHT © 2014 BY ENGEO INCORPORATED. THIS DOCUMENT MAY NOT BE REPRODUCED IN WHOLE OR IN PART BY ANY MEANS WHATSOEVER, NOR MAY IT BE QUOTED OR EXCERPTED WITHOUT THE EXPRESS WRITTEN CONSENT OF ENGEO INCORPORATED.

### GEOMETRY OF MODEL



### TOTAL HEAD CONTOURS - 200 YEAR



Note: 3D seepage effects are accounted for.



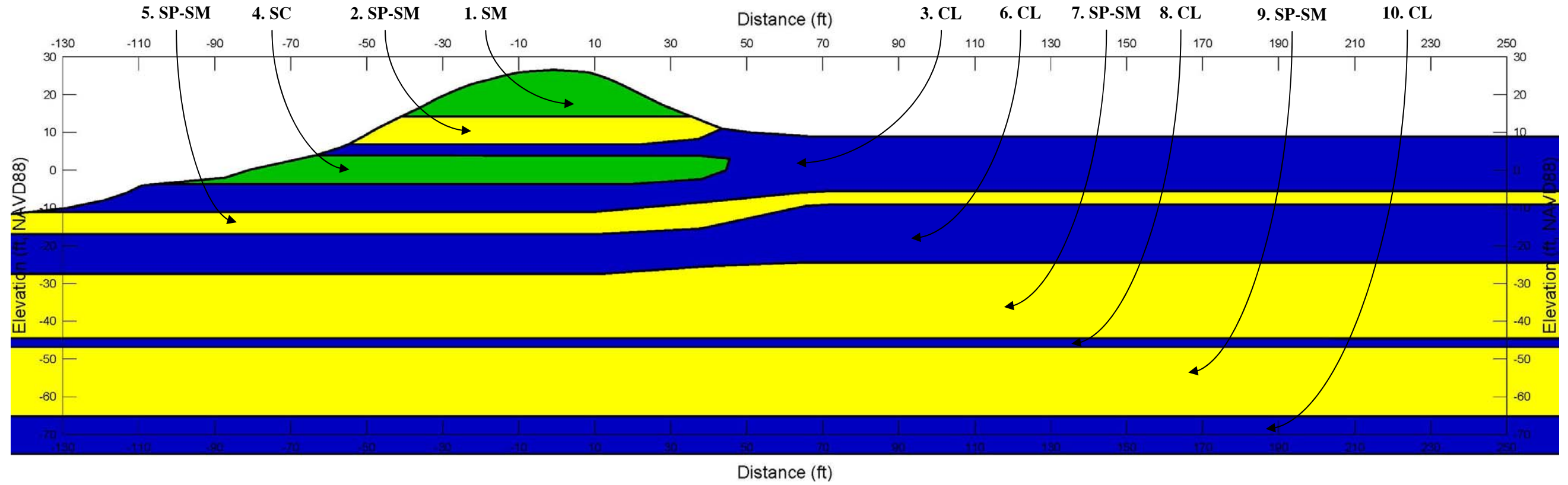
SEEPAGE ANALYSIS  
REACH F3 - STA 350+00  
RECLAMATION DISTRICT NO. 17  
SAN JOAQUIN COUNTY, CALIFORNIA

PROJECT NO.: 5747.005.000	
SCALE:	NO SCALE
DRAWN BY:	AL
CHECKED BY:	NS

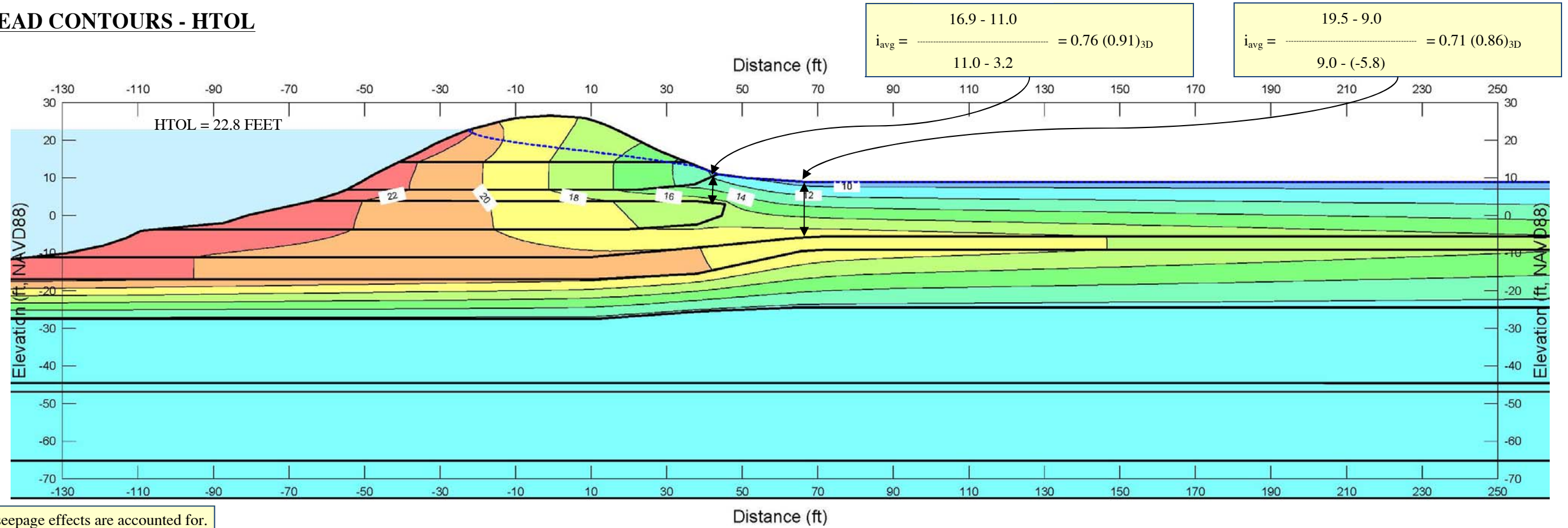
FIGURE NO.  
**E-25-B**

COPYRIGHT © 2014 BY ENGEO INCORPORATED. THIS DOCUMENT MAY NOT BE REPRODUCED IN WHOLE OR IN PART BY ANY MEANS WHATSOEVER, NOR MAY IT BE QUOTED OR EXCERPTED WITHOUT THE EXPRESS WRITTEN CONSENT OF ENGEO INCORPORATED.

### GEOMETRY OF MODEL



### TOTAL HEAD CONTOURS - HTOL



Note: 3D seepage effects are accounted for.



SEEPAGE ANALYSIS  
REACH F3 - STA 350+00  
RECLAMATION DISTRICT NO. 17  
SAN JOAQUIN COUNTY, CALIFORNIA

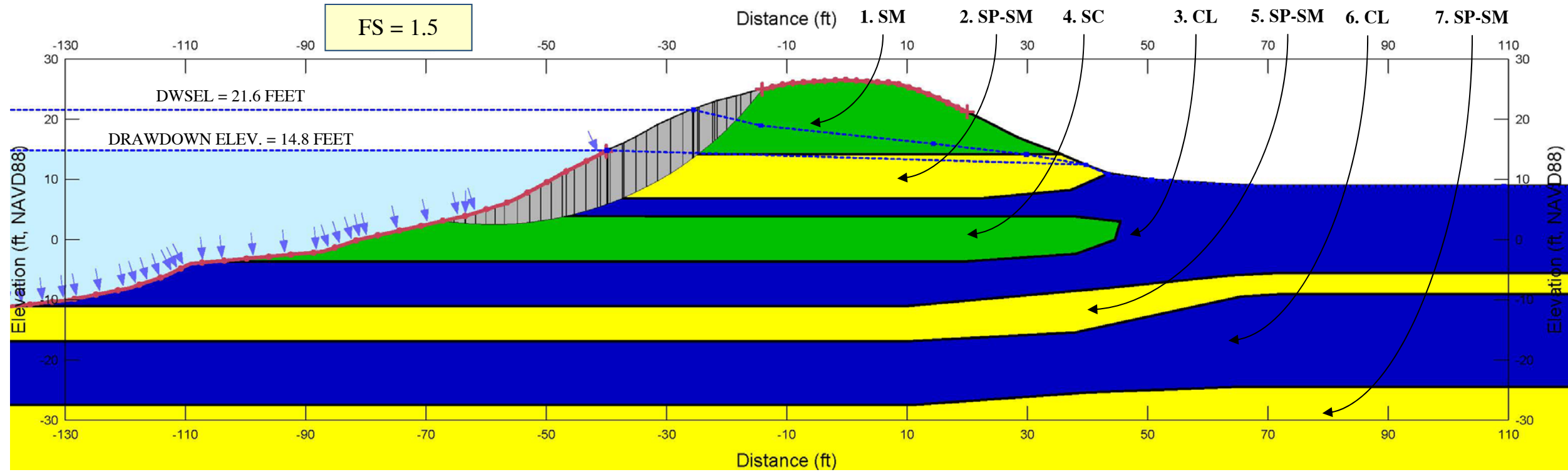
PROJECT NO.: 5747.005.000	
SCALE: NO SCALE	
DRAWN BY: AL	CHECKED BY: NS

FIGURE NO.  
**E-25-C**

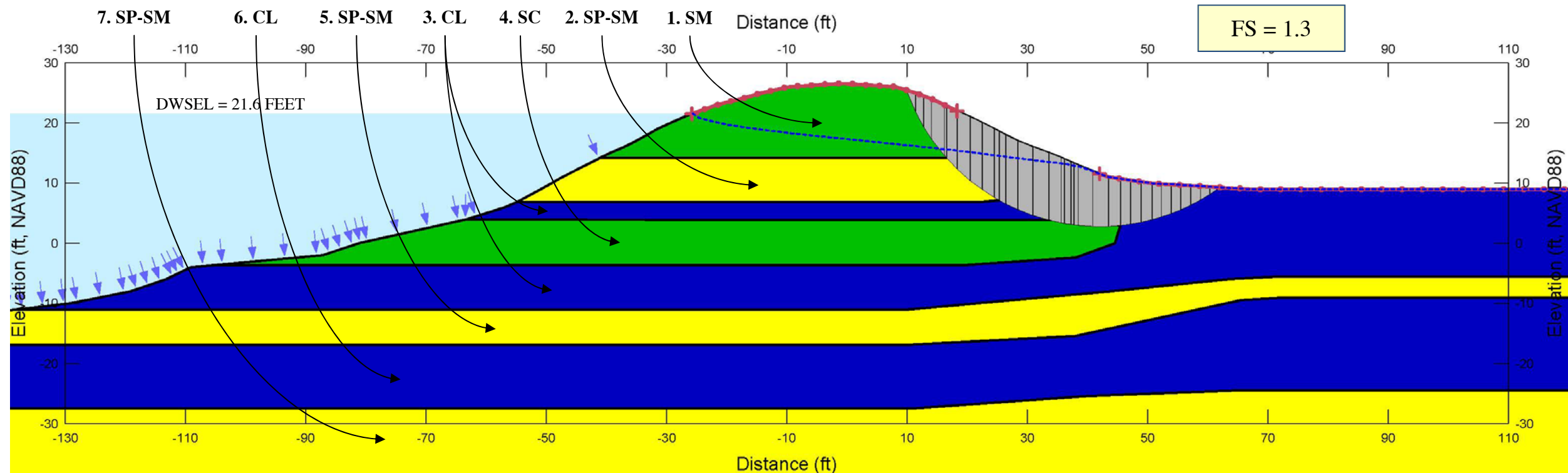


COPYRIGHT © 2014 BY ENGEO INCORPORATED. THIS DOCUMENT MAY NOT BE REPRODUCED IN WHOLE OR IN PART BY ANY MEANS WHATSOEVER WITHOUT THE EXPRESS WRITTEN CONSENT OF ENGEO INCORPORATED.

### WATERSIDE RAPID DRAWDOWN



### LANDSIDE STEADY STATE SEEPAGE - 200 YEAR



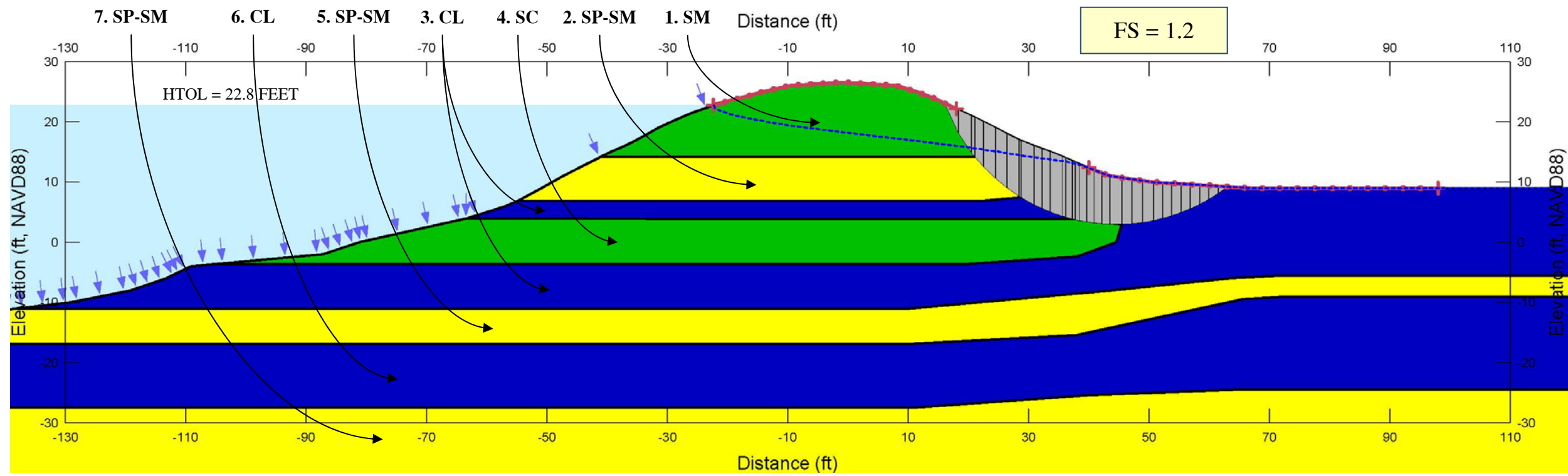
STATIC SLOPE STABILITY ANALYSIS  
REACH F3 - STA 350+00  
RECLAMATION DISTRICT NO. 17  
SAN JOAQUIN COUNTY, CALIFORNIA

PROJECT NO.: 5747.005.000	
SCALE: NO SCALE	
DRAWN BY: AL	CHECKED BY: NS

FIGURE NO.  
**E-25-D**

COPYRIGHT © 2014 BY ENGEO INCORPORATED. THIS DOCUMENT MAY NOT BE REPRODUCED IN WHOLE OR IN PART BY ANY MEANS WHATSOEVER WITHOUT THE EXPRESS WRITTEN CONSENT OF ENGEO INCORPORATED.

### LANDSIDE STEADY STATE SEEPAGE - HTOL

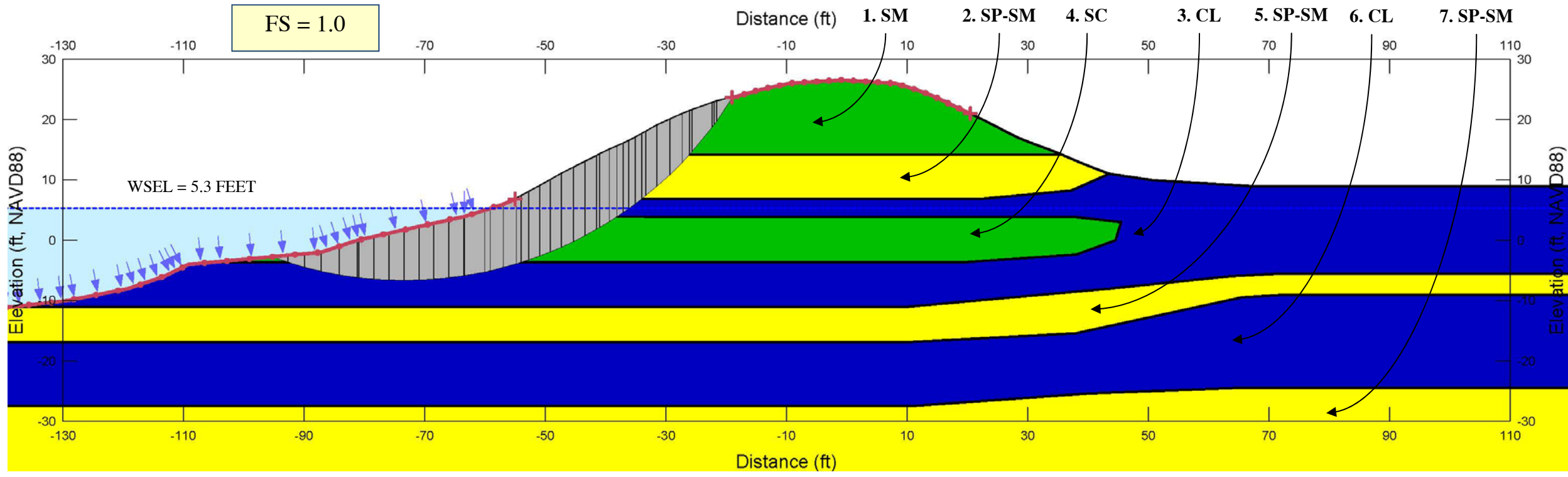
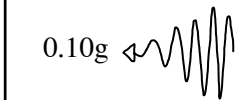


STATIC SLOPE STABILITY ANALYSIS  
 REACH F3 - STA 350+00  
 RECLAMATION DISTRICT NO. 17  
 SAN JOAQUIN COUNTY, CALIFORNIA

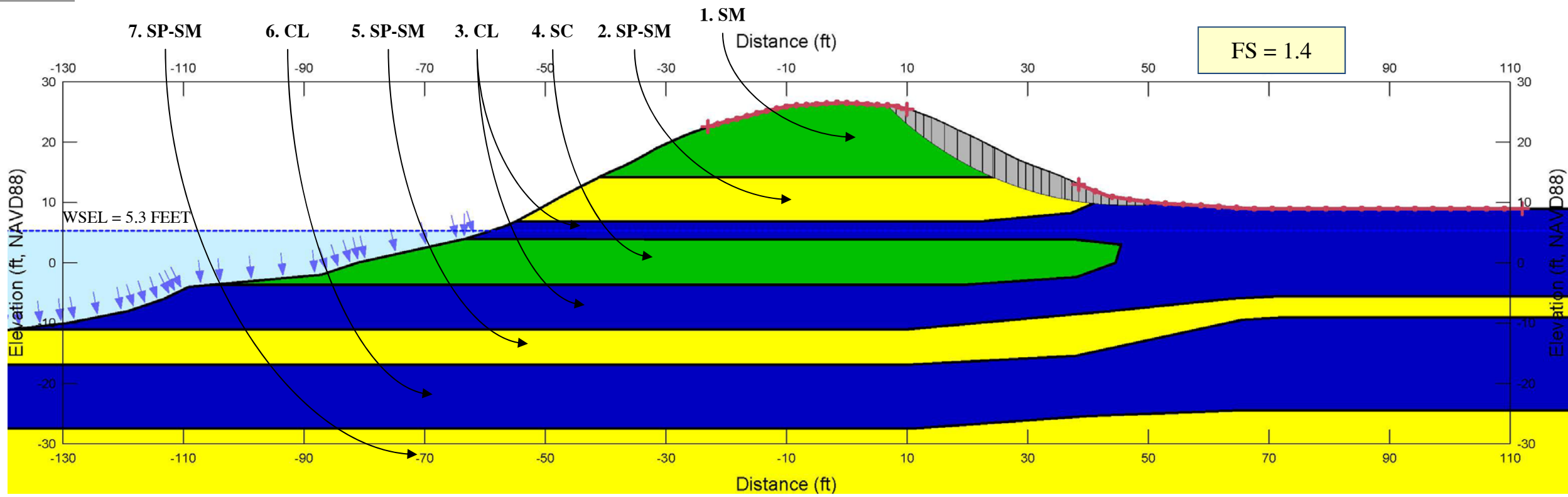
PROJECT NO.: 5747.005.000	
SCALE: NO SCALE	
DRAWN BY: AL	CHECKED BY: NS

FIGURE NO.  
**E-25-E**

**WATERSIDE SEISMIC**



**LANDSIDE SEISMIC**

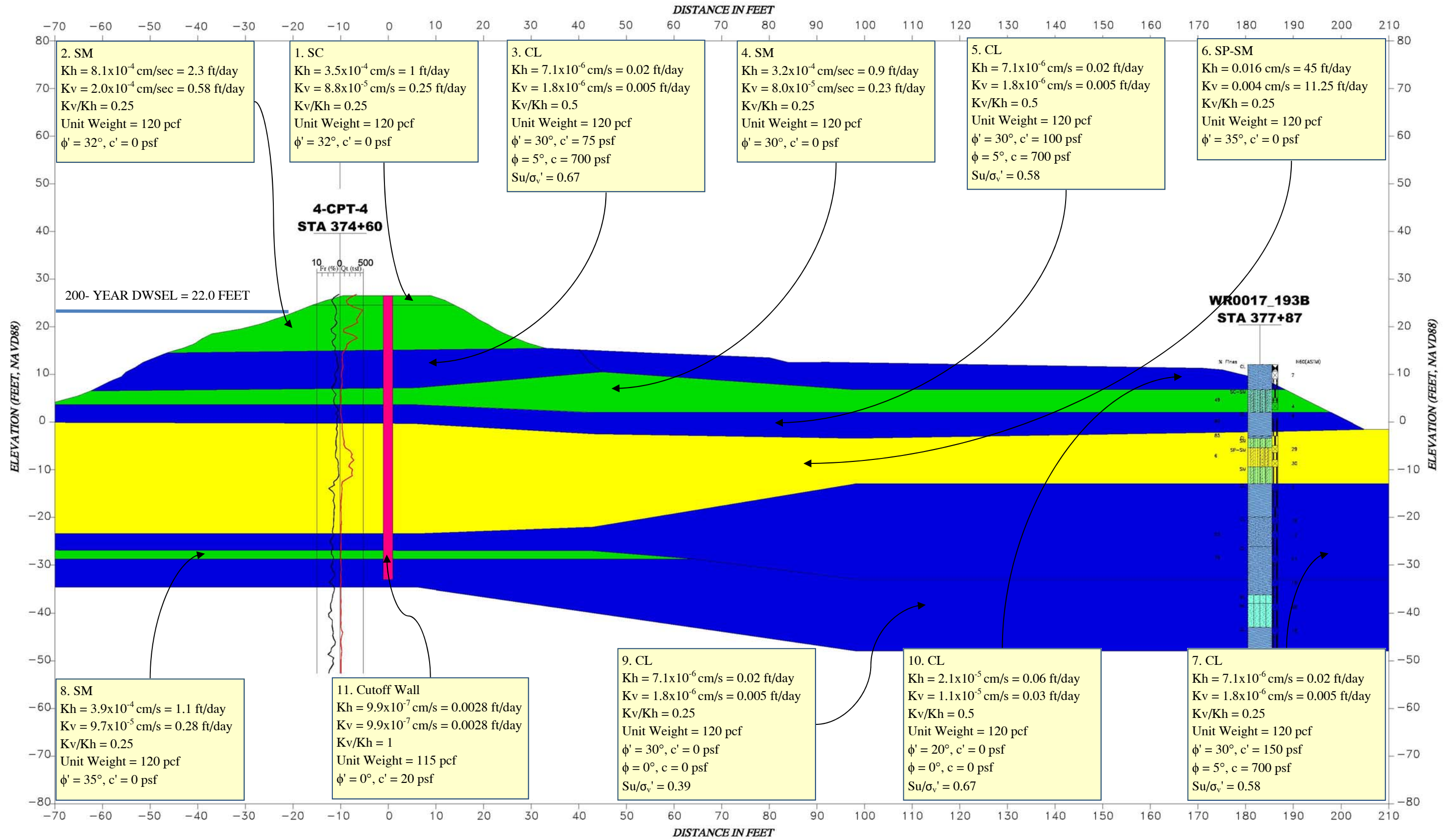


COPYRIGHT © 2014 BY ENGEO INCORPORATED. THIS DOCUMENT MAY NOT BE REPRODUCED IN WHOLE OR IN PART BY ANY MEANS WHATSOEVER, NOR MAY IT BE QUOTED OR EXCERPTED WITHOUT THE EXPRESS WRITTEN CONSENT OF ENGEO INCORPORATED.

	SEISMIC SLOPE STABILITY ANALYSIS REACH F3 - STA 350+00 RECLAMATION DISTRICT NO. 17 SAN JOAQUIN COUNTY, CALIFORNIA		PROJECT NO.: 5747.005.000	FIGURE NO.
			SCALE: NO SCALE	E-25-F
			DRAWN BY: AL    CHECKED BY: NS	

# WATERSIDE

# LANDSIDE



COPYRIGHT © 2014 BY ENGEO INCORPORATED. THIS DOCUMENT MAY NOT BE REPRODUCED IN WHOLE OR IN PART BY ANY MEANS WHATSOEVER, NOR MAY IT BE QUOTED OR EXCERPTED WITHOUT THE EXPRESS WRITTEN CONSENT OF ENGEO INCORPORATED.



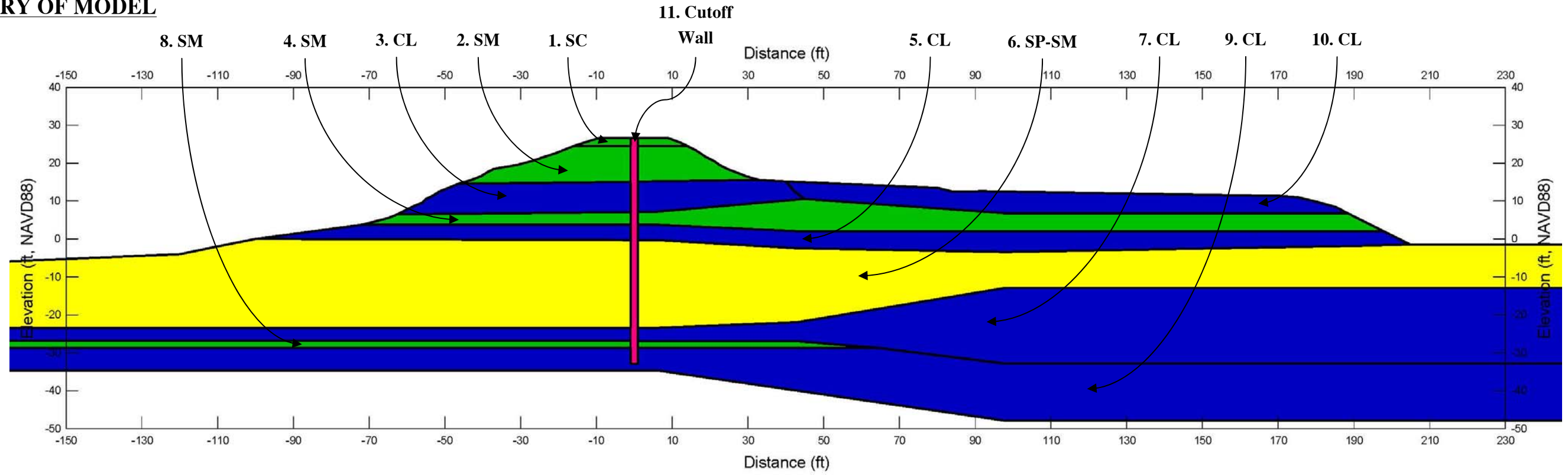
**CROSS SECTION & MATERIAL PARAMETERS**  
 REACH G - STA 375+50  
 RECLAMATION DISTRICT NO. 17  
 SAN JOAQUIN COUNTY, CALIFORNIA

PROJECT NO.: 5747.005.000  
 SCALE: NO SCALE  
 DRAWN BY: ZH CHECKED BY: JB

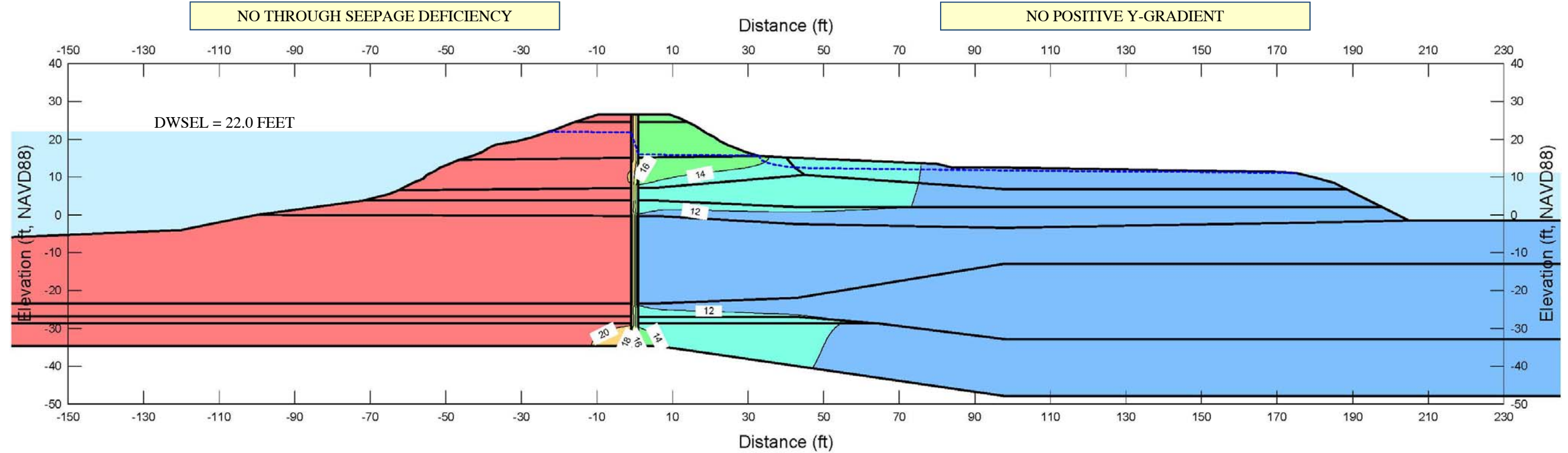
FIGURE NO.  
**E-26-A**

COPYRIGHT © 2014 BY ENGEO INCORPORATED. THIS DOCUMENT MAY NOT BE REPRODUCED IN WHOLE OR IN PART BY ANY MEANS WHATSOEVER, NOR MAY IT BE QUOTED OR EXCERPTED WITHOUT THE EXPRESS WRITTEN CONSENT OF ENGEO INCORPORATED.

### GEOMETRY OF MODEL



### TOTAL HEAD CONTOURS - 200 YEAR



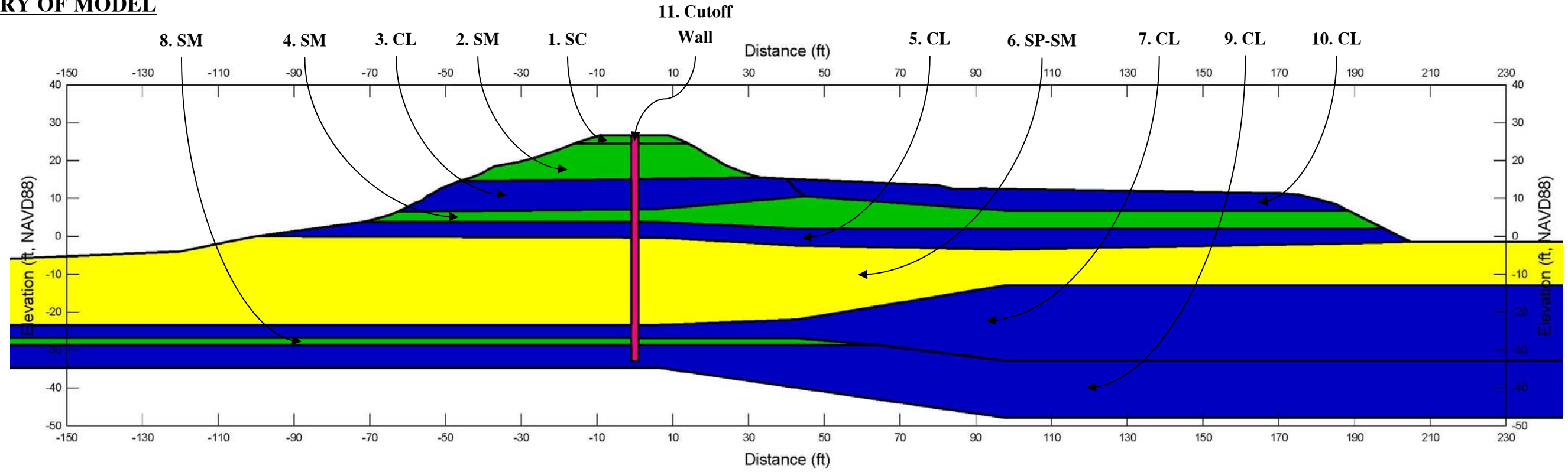
SEEPAGE ANALYSIS  
 REACH G - STA 375+50  
 RECLAMATION DISTRICT NO. 17  
 SAN JOAQUIN COUNTY, CALIFORNIA

PROJECT NO.: 5747.005.000	
SCALE: NO SCALE	
DRAWN BY: AL	CHECKED BY: NS

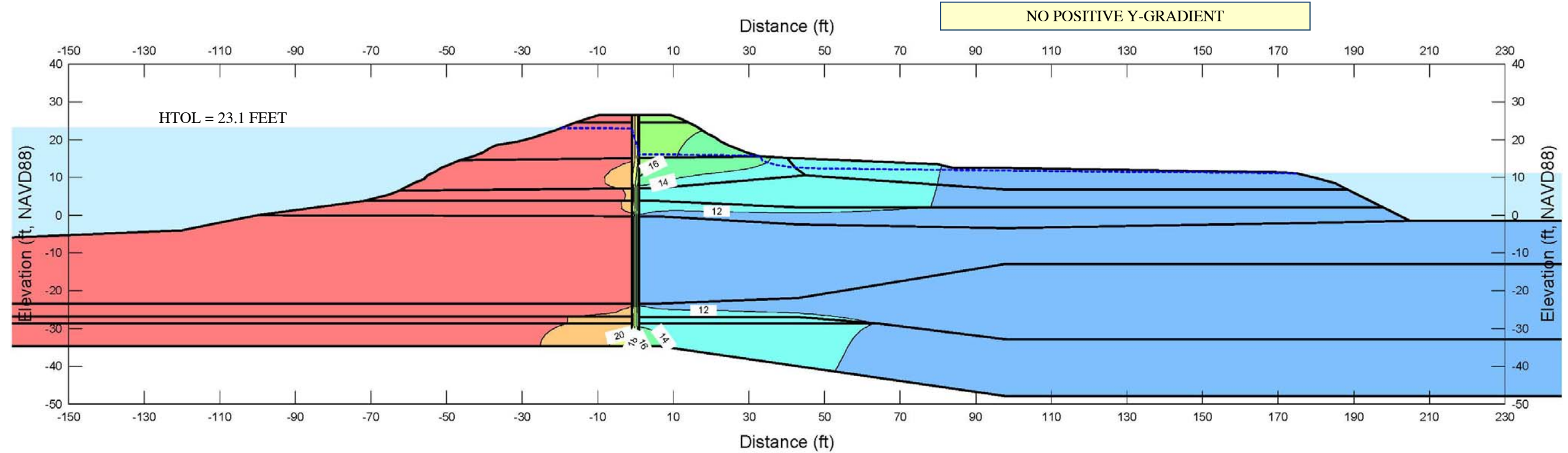
FIGURE NO.  
**E-26-B**

COPYRIGHT © 2014 BY ENGEO INCORPORATED. THIS DOCUMENT MAY NOT BE REPRODUCED IN WHOLE OR IN PART BY ANY MEANS WHATSOEVER WITHOUT THE EXPRESS WRITTEN CONSENT OF ENGEO INCORPORATED.

**GEOMETRY OF MODEL**



**TOTAL HEAD CONTOURS - HTOL**



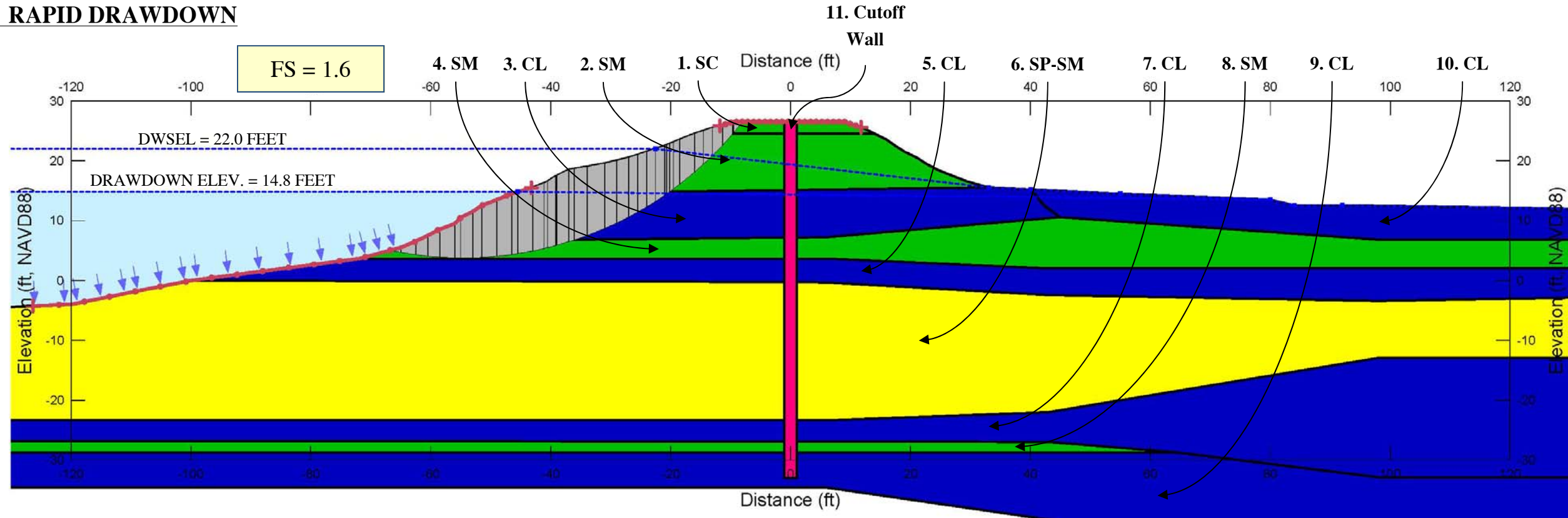
SEEPAGE ANALYSIS  
 REACH G - STA 375+50  
 RECLAMATION DISTRICT NO. 17  
 SAN JOAQUIN COUNTY, CALIFORNIA

PROJECT NO.: 5747.005.000	
SCALE: NO SCALE	
DRAWN BY: AL	CHECKED BY: NS

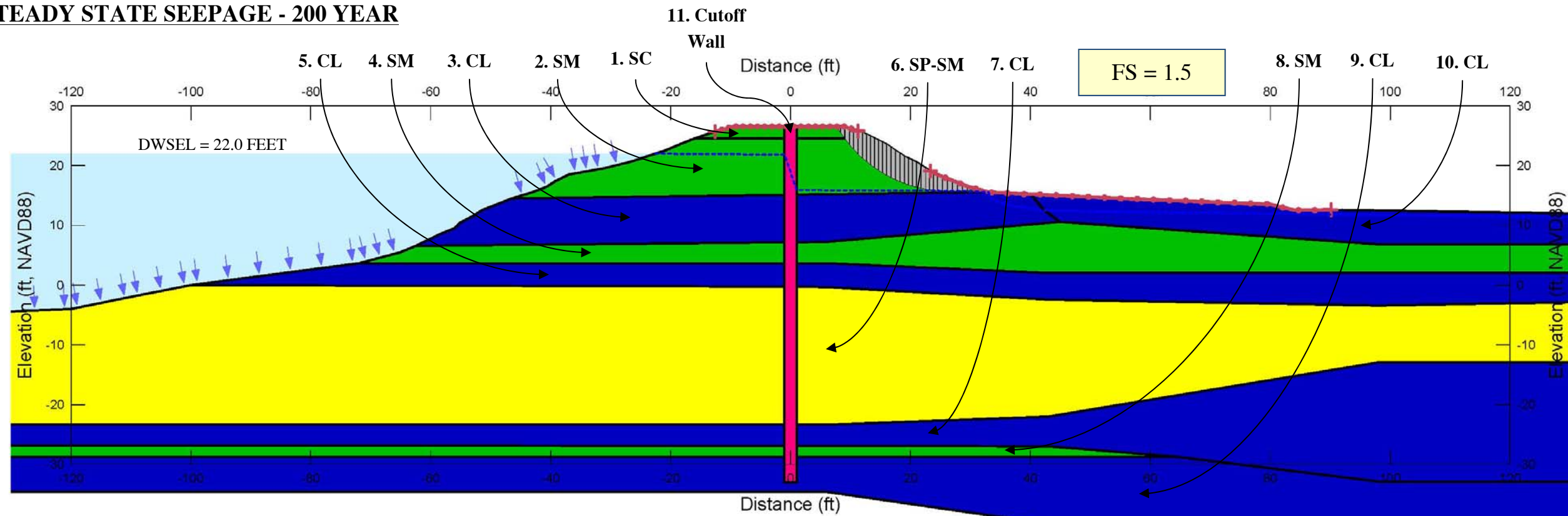
FIGURE NO.  
**E-26-C**

COPYRIGHT © 2014 BY ENGEO INCORPORATED. THIS DOCUMENT MAY NOT BE REPRODUCED IN WHOLE OR IN PART BY ANY MEANS WHATSOEVER, NOR MAY IT BE QUOTED OR EXCERPTED WITHOUT THE EXPRESS WRITTEN CONSENT OF ENGEO INCORPORATED.

### WATERSIDE RAPID DRAWDOWN



### LANDSIDE STEADY STATE SEEPAGE - 200 YEAR



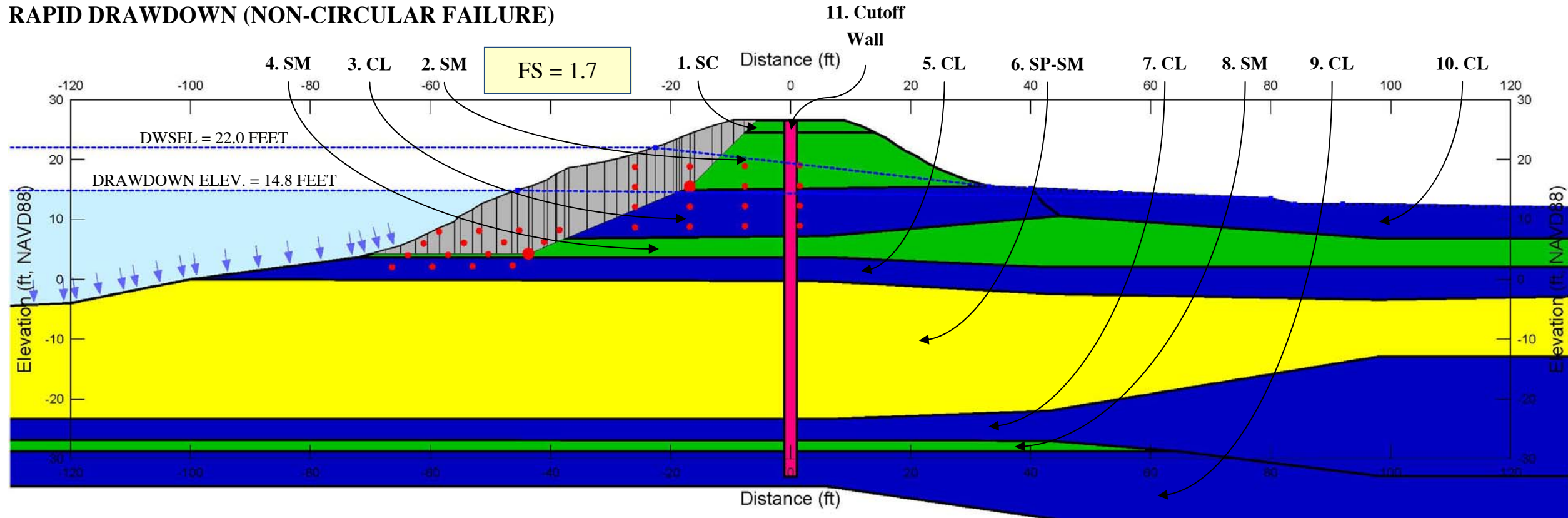
STATIC SLOPE STABILITY ANALYSIS  
 REACH G - STA 375+50  
 RECLAMATION DISTRICT NO. 17  
 SAN JOAQUIN COUNTY, CALIFORNIA

PROJECT NO.: 5747.005.000	
SCALE:	NO SCALE
DRAWN BY:	AL
CHECKED BY:	NS

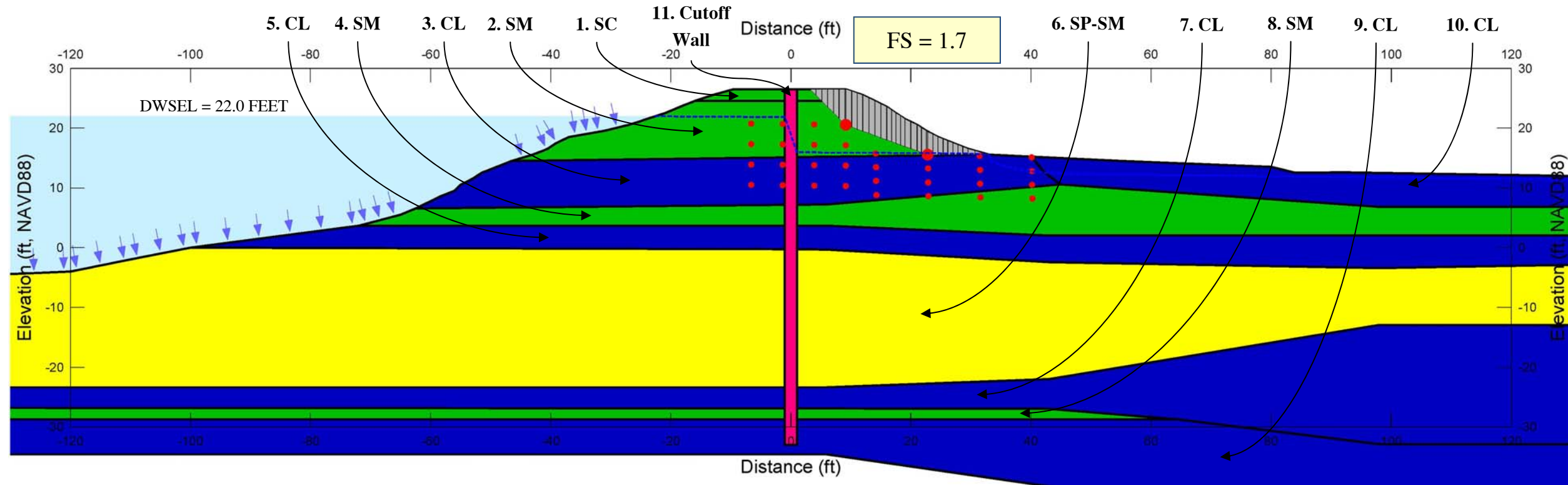
FIGURE NO.  
**E-26-D**

COPYRIGHT © 2014 BY ENGEO INCORPORATED. THIS DOCUMENT MAY NOT BE REPRODUCED IN WHOLE OR IN PART BY ANY MEANS WHATSOEVER, NOR MAY IT BE QUOTED OR EXCERPTED WITHOUT THE EXPRESS WRITTEN CONSENT OF ENGEO INCORPORATED.

**WATERSIDE RAPID DRAWDOWN (NON-CIRCULAR FAILURE)**



**LANDSIDE STEADY STATE SEEPAGE - 200 YEAR (NON-CIRCULAR FAILURE)**



STATIC SLOPE STABILITY ANALYSIS  
 REACH G - STA 375+50  
 RECLAMATION DISTRICT NO. 17  
 SAN JOAQUIN COUNTY, CALIFORNIA

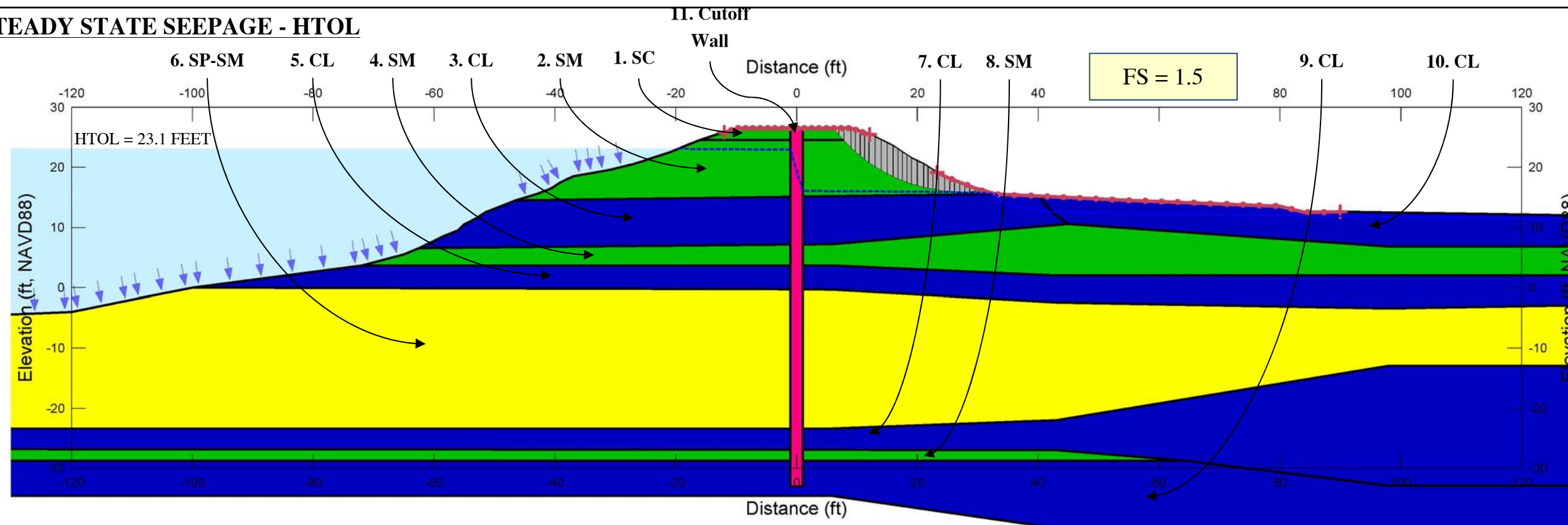
PROJECT NO.: 5747.005.000	
SCALE:	NO SCALE
DRAWN BY:	AL
CHECKED BY:	NS

FIGURE NO.  
**E-26-E**

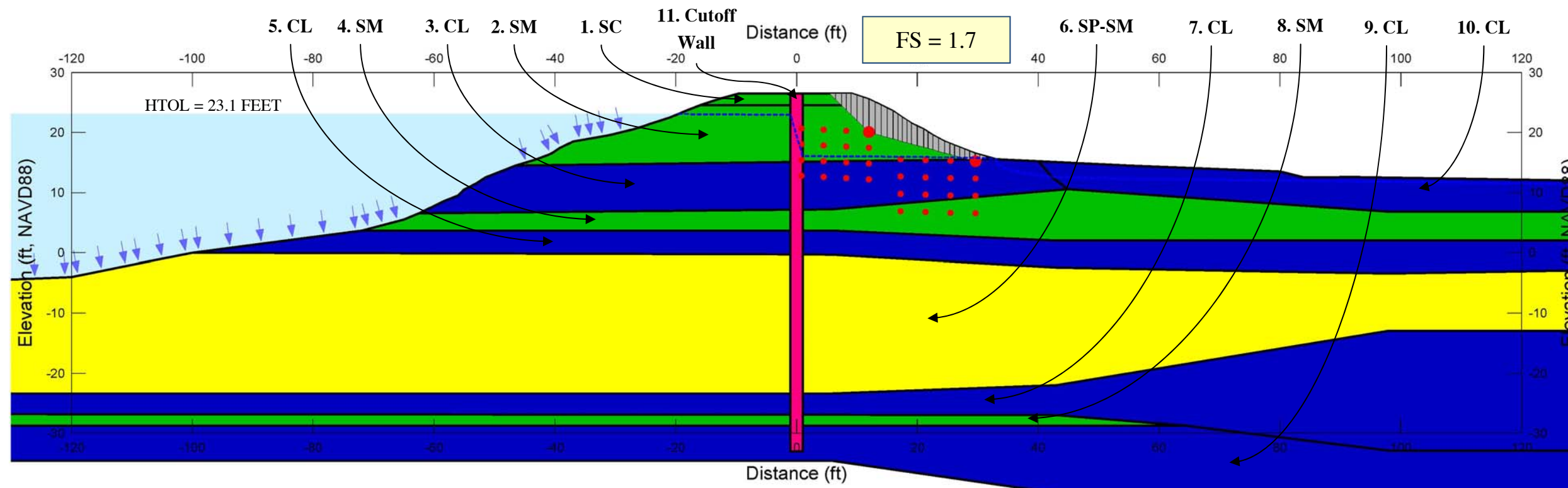


COPYRIGHT © 2014 BY ENGEO INCORPORATED. THIS DOCUMENT MAY NOT BE REPRODUCED IN WHOLE OR IN PART BY ANY MEANS WHATSOEVER, NOR MAY IT BE QUOTED OR EXCERPTED WITHOUT THE EXPRESS WRITTEN CONSENT OF ENGEO INCORPORATED.

**LANDSIDE STEADY STATE SEEPAGE - HTOL**



**LANDSIDE STEADY STATE SEEPAGE - HTOL (NON-CIRCULAR FAILURE)**



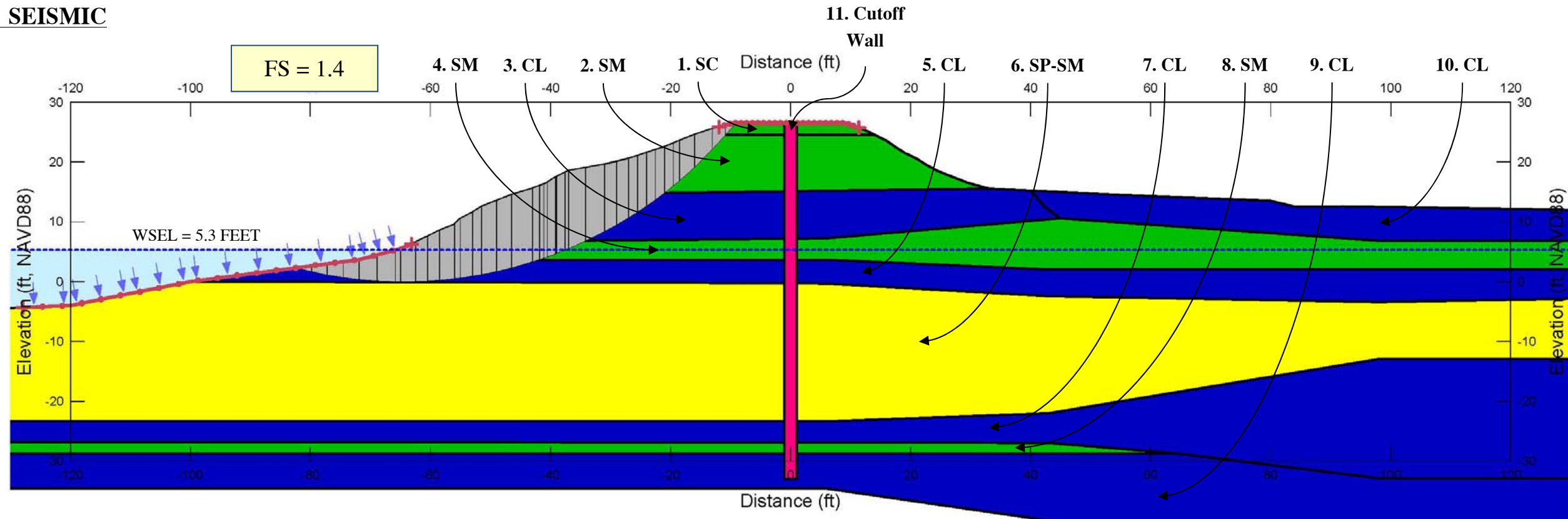
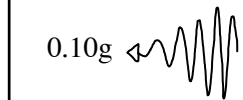
STATIC SLOPE STABILITY ANALYSIS  
 REACH G - STA 375+50  
 RECLAMATION DISTRICT NO. 17  
 SAN JOAQUIN COUNTY, CALIFORNIA

PROJECT NO.: 5747.005.000	
SCALE: NO SCALE	
DRAWN BY: AL	CHECKED BY: NS

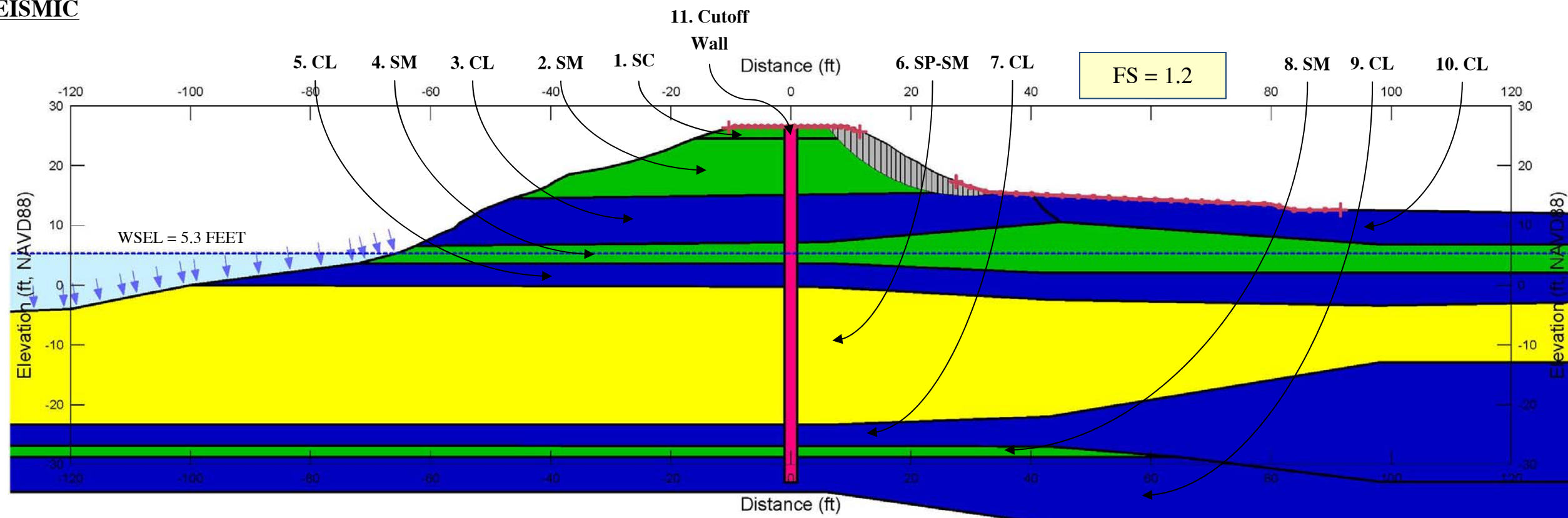
FIGURE NO.  
**E-26-F**

COPYRIGHT © 2014 BY ENGEO INCORPORATED. THIS DOCUMENT MAY NOT BE REPRODUCED IN WHOLE OR IN PART BY ANY MEANS WHATSOEVER, NOR MAY IT BE QUOTED OR EXCERPTED WITHOUT THE EXPRESS WRITTEN CONSENT OF ENGEO INCORPORATED.

### WATERSIDE SEISMIC



### LANDSIDE SEISMIC

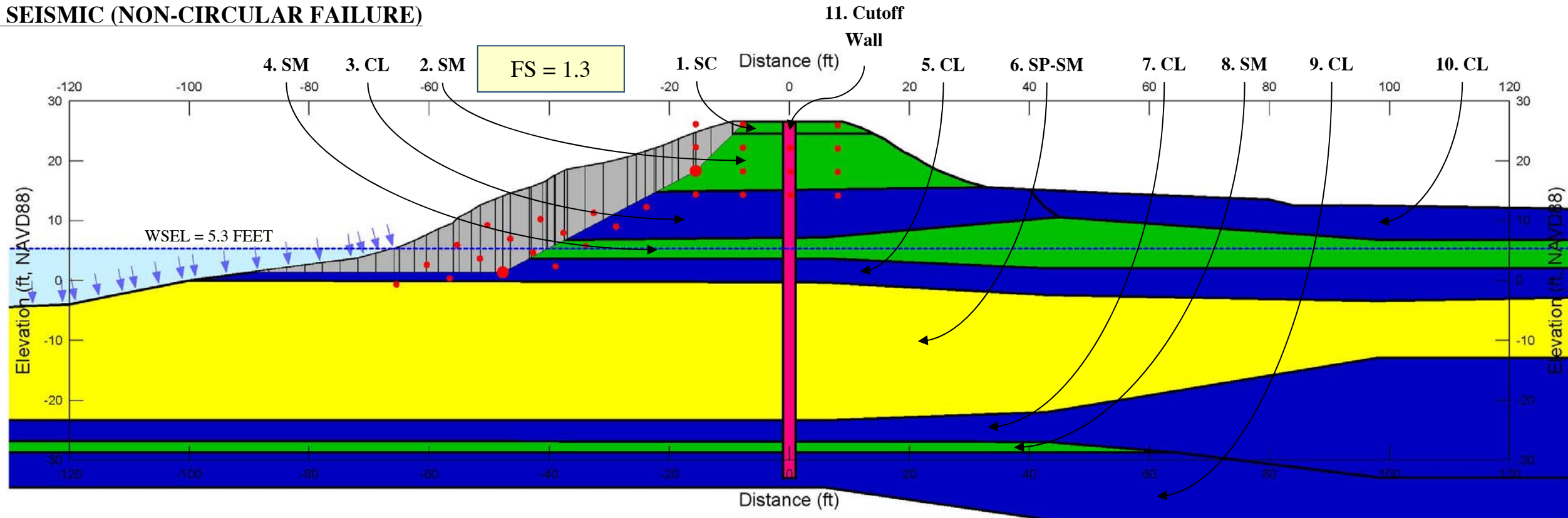
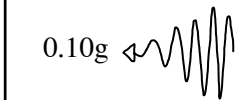


SEISMIC SLOPE STABILITY ANALYSIS  
 REACH G - STA 375+50  
 RECLAMATION DISTRICT NO. 17  
 SAN JOAQUIN COUNTY, CALIFORNIA

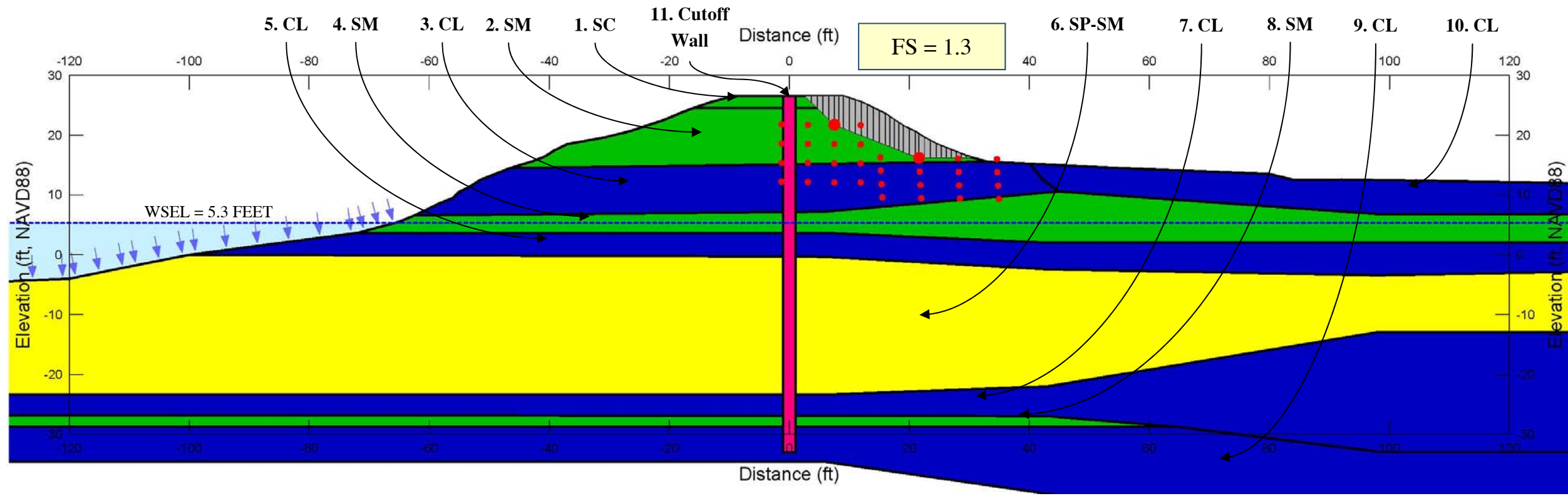
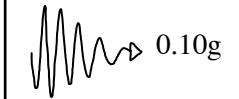
PROJECT NO.: 5747.005.000	
SCALE:	NO SCALE
DRAWN BY:	AL
CHECKED BY:	NS

FIGURE NO.  
**E-26-G**

**WATERSIDE SEISMIC (NON-CIRCULAR FAILURE)**



**LANDSIDE SEISMIC (NON-CIRCULAR FAILURE)**



COPYRIGHT © 2014 BY ENGEO INCORPORATED. THIS DOCUMENT MAY NOT BE REPRODUCED IN WHOLE OR IN PART BY ANY MEANS WHATSOEVER, NOR MAY IT BE QUOTED OR EXCERPTED WITHOUT THE EXPRESS WRITTEN CONSENT OF ENGEO INCORPORATED.



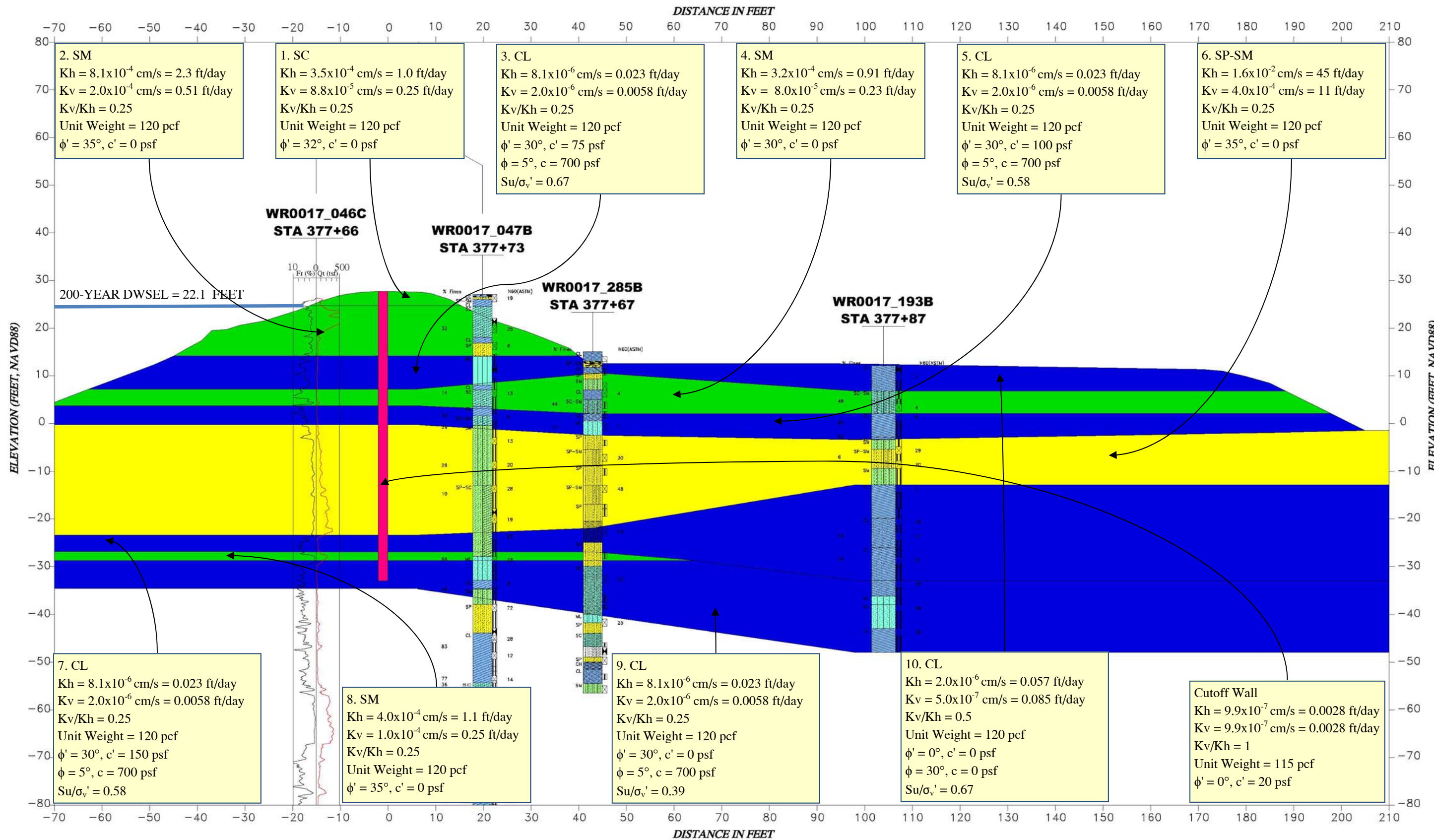
SEISMIC SLOPE STABILITY ANALYSIS  
 REACH G - STA 375+50  
 RECLAMATION DISTRICT NO. 17  
 SAN JOAQUIN COUNTY, CALIFORNIA

PROJECT NO.: 5747.005.000	
SCALE: NO SCALE	
DRAWN BY: AL	CHECKED BY: NS

FIGURE NO.  
**E-26-H**

# WATERSIDE

# LANDSIDE



COPYRIGHT © 2014 BY ENGEO INCORPORATED. THIS DOCUMENT MAY NOT BE REPRODUCED IN WHOLE OR IN PART BY ANY MEANS WHATSOEVER, NOR MAY IT BE QUOTED OR EXCERPTED WITHOUT THE EXPRESS WRITTEN CONSENT OF ENGEO INCORPORATED.



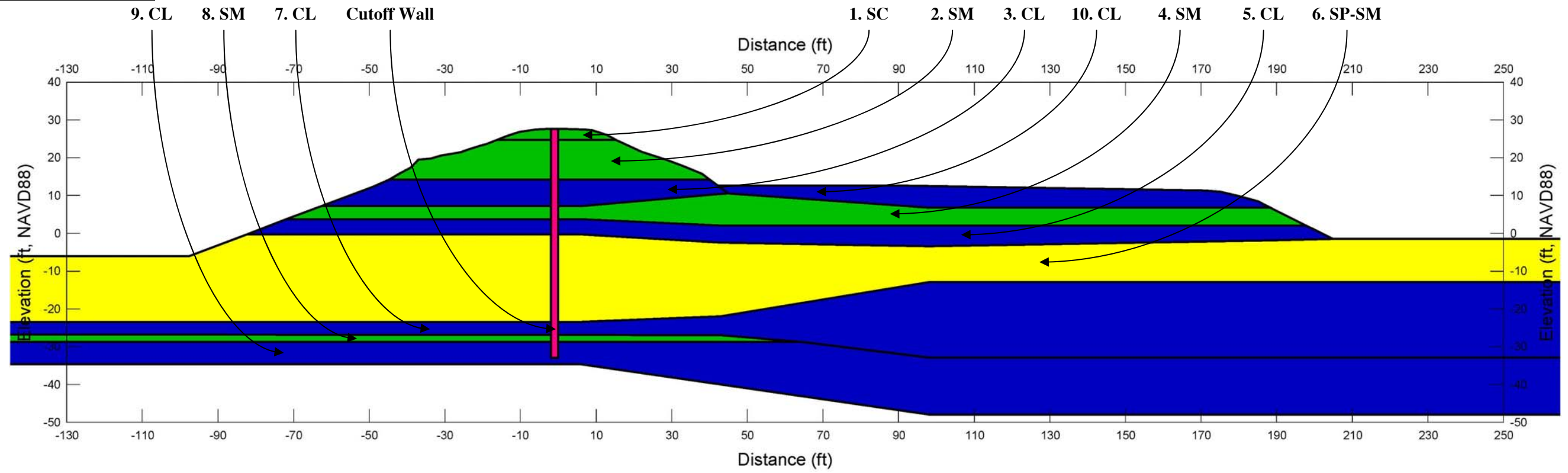
CROSS SECTION & MATERIAL PARAMETERS  
 REACH G - STA 377+65  
 RECLAMATION DISTRICT NO. 17  
 SAN JOAQUIN COUNTY, CALIFORNIA

PROJECT NO.: 5747.005.000
SCALE: NO SCALE
DRAWN BY: ZH    CHECKED BY: NS

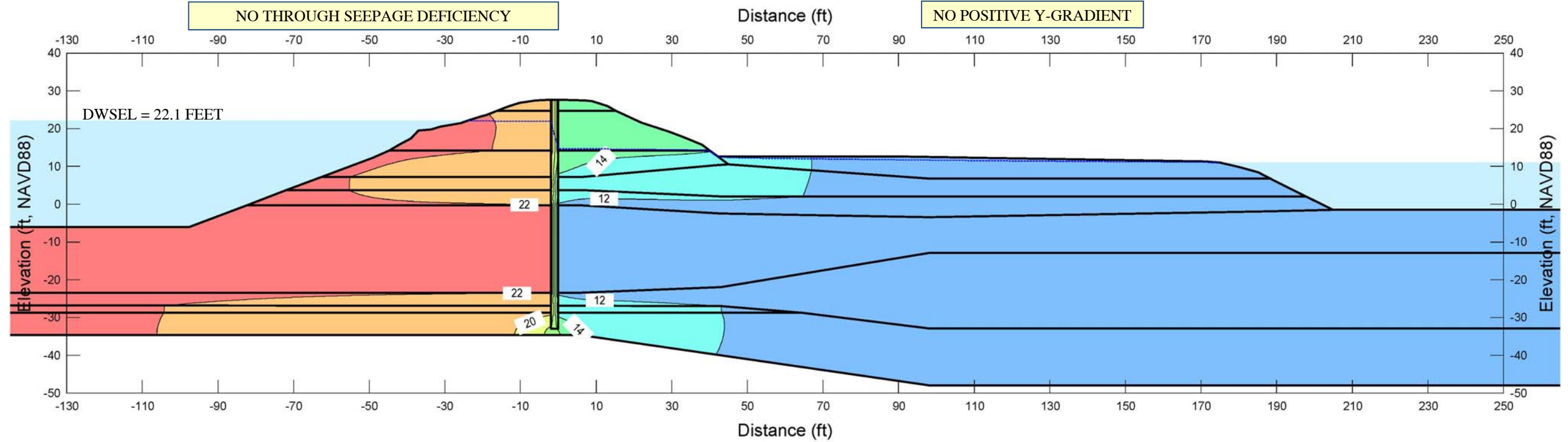
FIGURE NO.  
**E-27-A**

COPYRIGHT © 2014 BY ENGEO INCORPORATED. THIS DOCUMENT MAY NOT BE REPRODUCED IN WHOLE OR IN PART BY ANY MEANS WHATSOEVER WITHOUT THE EXPRESS WRITTEN CONSENT OF ENGEO INCORPORATED.

### GEOMETRY OF MODEL



### TOTAL HEAD CONTOURS - 200 YEAR



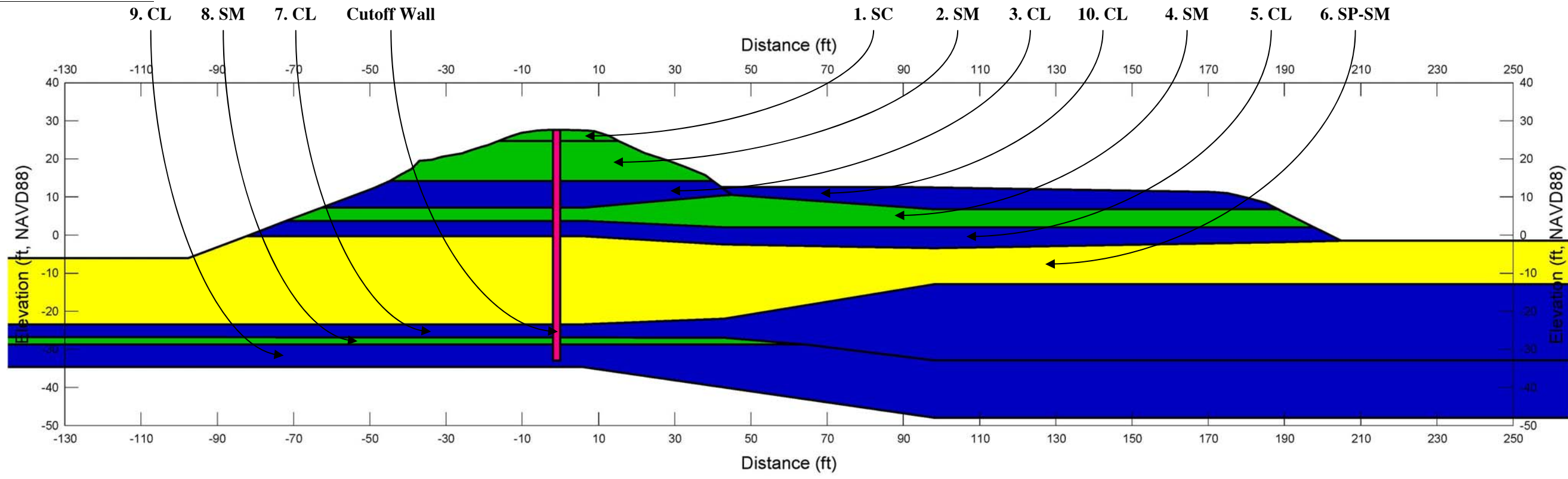
SEEPAGE ANALYSIS  
 REACH G - STA 377+65  
 RECLAMATION DISTRICT NO. 17  
 SAN JOAQUIN COUNTY, CALIFORNIA

PROJECT NO.: 5747.005.000	
SCALE: NO SCALE	
DRAWN BY: ZR	CHECKED BY: NS

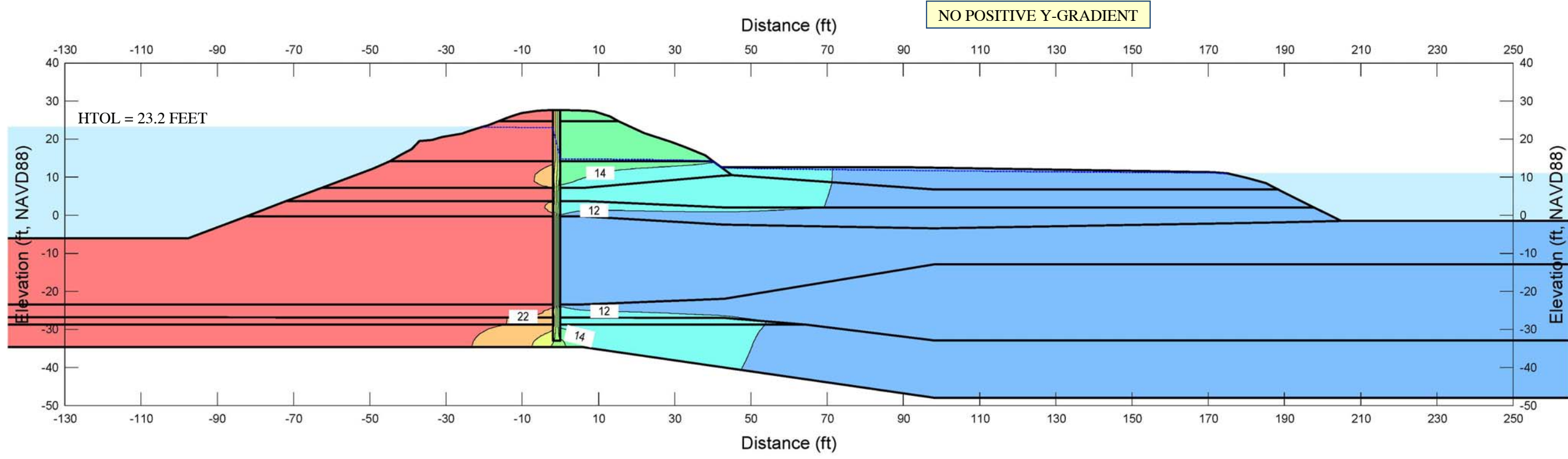
FIGURE NO.  
**E-27-B**


COPYRIGHT © 2014 BY ENGEO INCORPORATED. THIS DOCUMENT MAY NOT BE REPRODUCED IN WHOLE OR IN PART BY ANY MEANS WHATSOEVER, NOR MAY IT BE QUOTED OR EXCERPTED WITHOUT THE EXPRESS WRITTEN CONSENT OF ENGEO INCORPORATED.

**GEOMETRY OF MODEL**



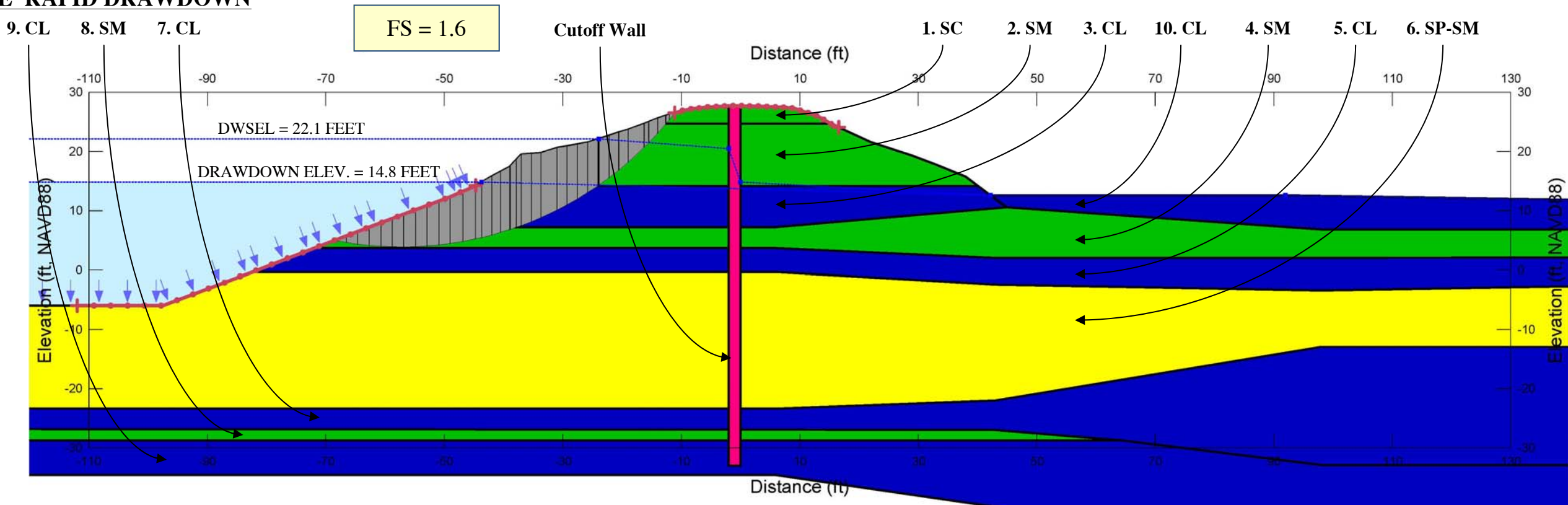
**TOTAL HEAD CONTOURS - HTOL**



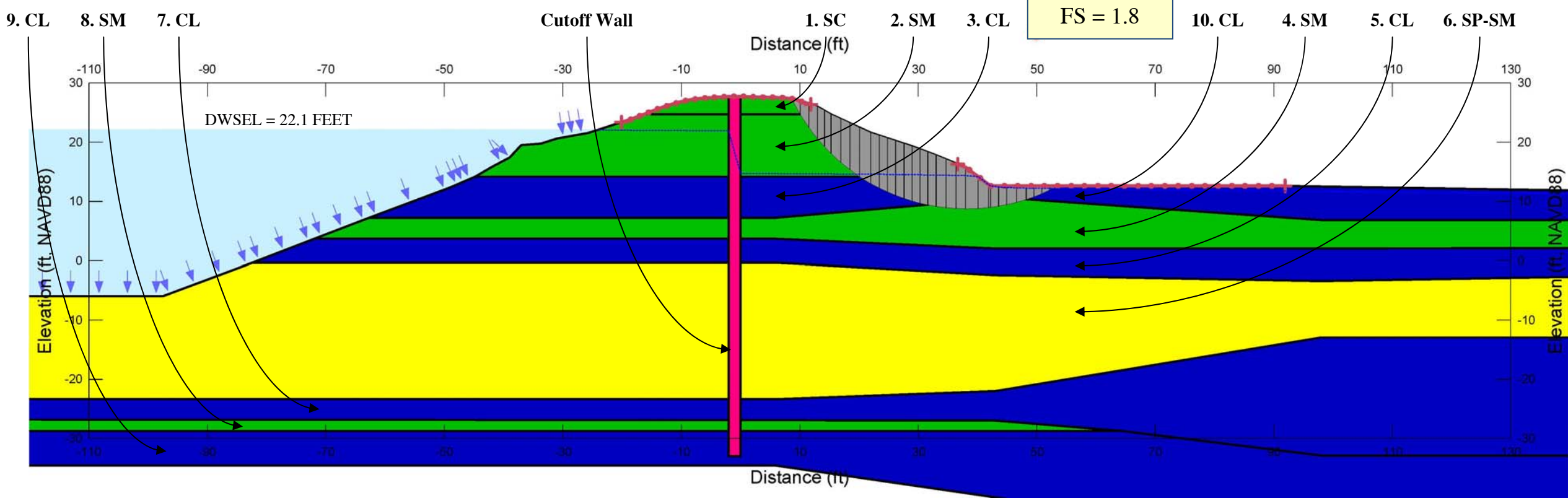
	SEEPAGE ANALYSIS REACH G - STA 377+65 RECLAMATION DISTRICT NO. 17 SAN JOAQUIN COUNTY, CALIFORNIA		PROJECT NO.: 5747.005.000	FIGURE NO.  <b>E-27-C</b>
			SCALE: NO SCALE	
			DRAWN BY: ZR    CHECKED BY: NS	

COPYRIGHT © 2014 BY ENGEO INCORPORATED. THIS DOCUMENT MAY NOT BE REPRODUCED IN WHOLE OR IN PART BY ANY MEANS WHATSOEVER, NOR MAY IT BE QUOTED OR EXCERPTED WITHOUT THE EXPRESS WRITTEN CONSENT OF ENGEO INCORPORATED.


### WATERSIDE RAPID DRAWDOWN



### LANDSIDE STEADY STATE SEEPAGE - 200 YEAR

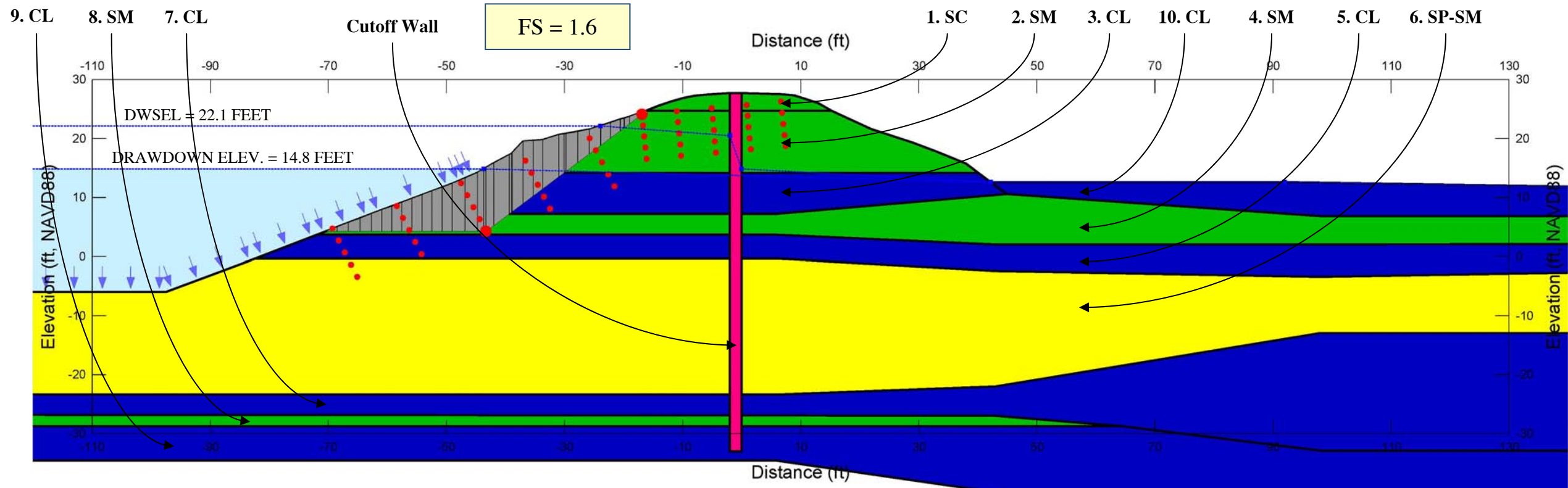


10/16/2015 1:53 PM

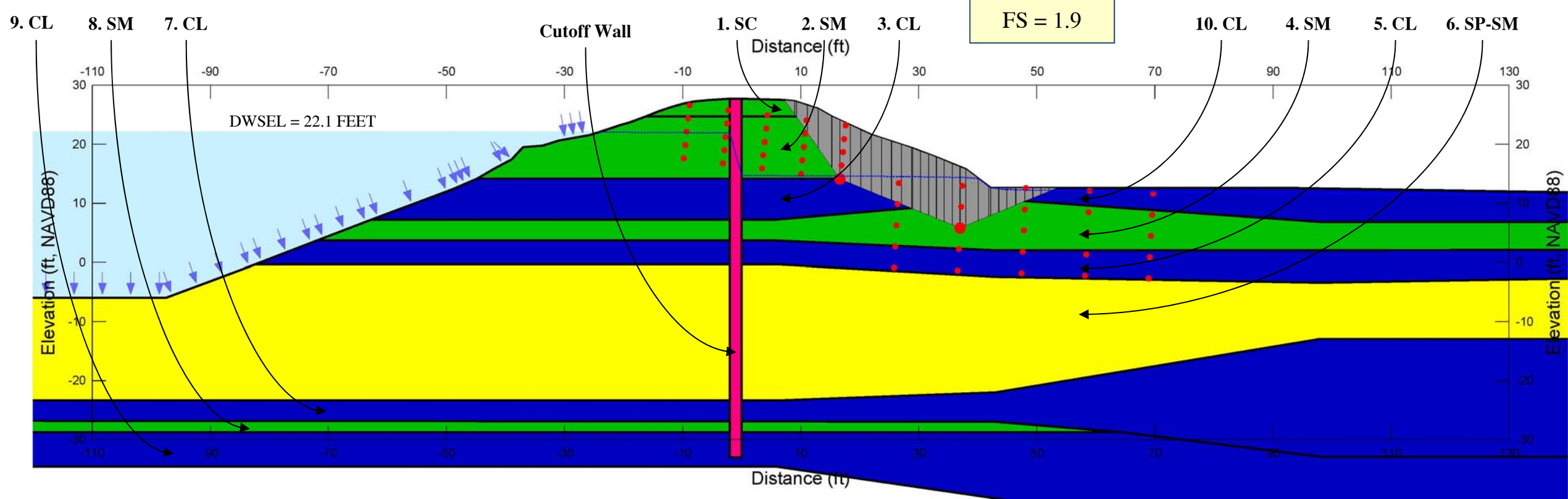
	STATIC SLOPE STABILITY ANALYSIS		PROJECT NO.: 5747.005.000	FIGURE NO. <b>E-27-D</b>
	REACH G - STA 377+65 RECLAMATION DISTRICT NO. 17 SAN JOAQUIN COUNTY, CALIFORNIA		SCALE: NO SCALE	
			DRAWN BY: ZR    CHECKED BY: NS	

COPYRIGHT © 2014 BY ENGEO INCORPORATED. THIS DOCUMENT MAY NOT BE REPRODUCED IN WHOLE OR IN PART BY ANY MEANS WHATSOEVER, NOR MAY IT BE QUOTED OR EXCERPTED WITHOUT THE EXPRESS WRITTEN CONSENT OF ENGEO INCORPORATED.

### WATERSIDE RAPID DRAWDOWN (NON-CIRCULAR FAILURE)



### LANDSIDE STEADY STATE SEEPAGE - 200 YEAR (NON-CIRCULAR FAILURE)



STATIC SLOPE STABILITY ANALYSIS  
REACH G - STA 377+65  
RECLAMATION DISTRICT NO. 17  
SAN JOAQUIN COUNTY, CALIFORNIA

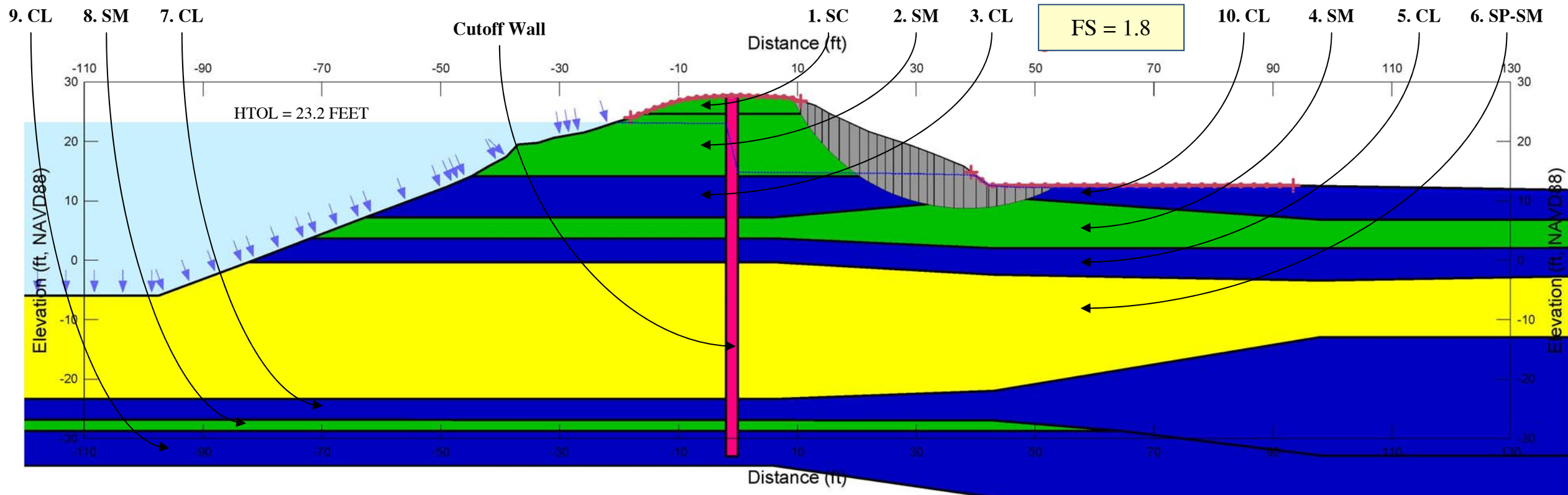
PROJECT NO.: 5747.005.000	
SCALE:	NO SCALE
DRAWN BY:	ZR
CHECKED BY:	NS

FIGURE NO.  
**E-27-E**

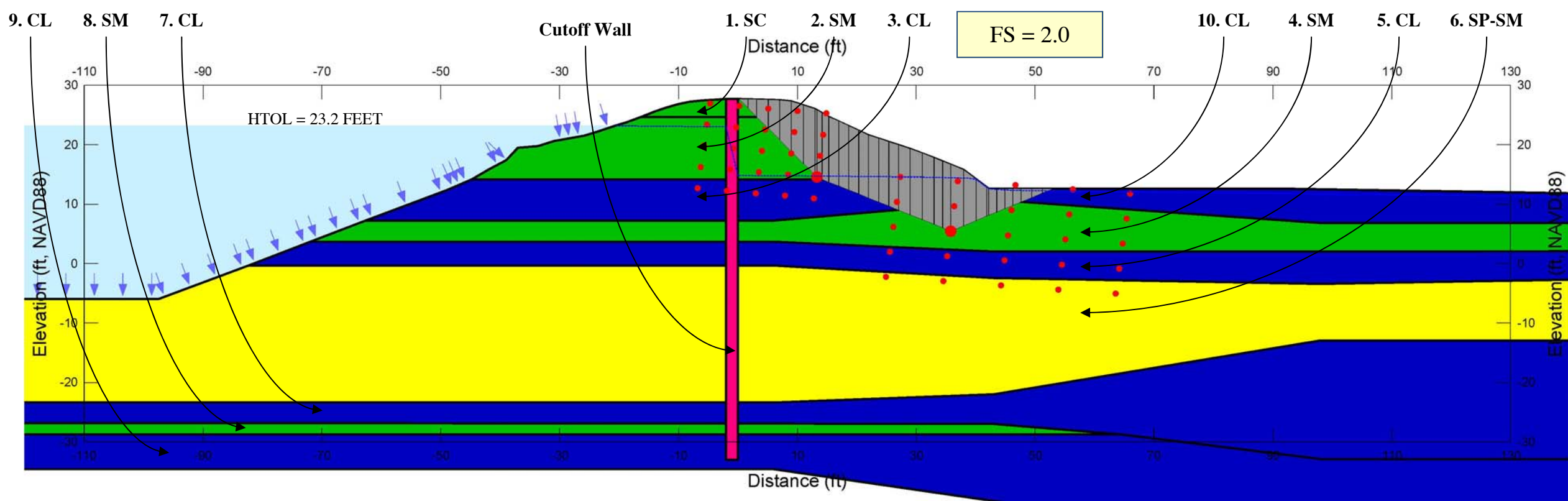


COPYRIGHT © 2014 BY ENGEO INCORPORATED. THIS DOCUMENT MAY NOT BE REPRODUCED IN WHOLE OR IN PART BY ANY MEANS WHATSOEVER, NOR MAY IT BE QUOTED OR EXCERPTED WITHOUT THE EXPRESS WRITTEN CONSENT OF ENGEO INCORPORATED.

**LANDSIDE STEADY STATE SEEPAGE - HTOL**



**LANDSIDE STEADY STATE SEEPAGE - HTOL (NON-CIRCULAR FAILURE)**



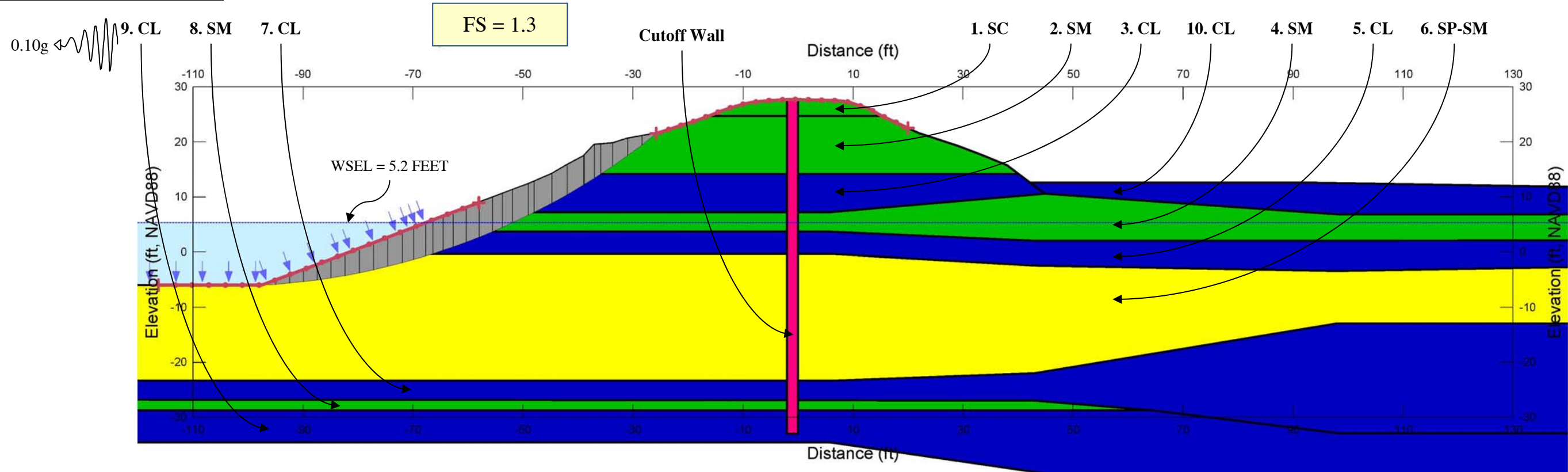
STATIC SLOPE STABILITY ANALYSIS  
 REACH G - STA 377+65  
 RECLAMATION DISTRICT NO. 17  
 SAN JOAQUIN COUNTY, CALIFORNIA

PROJECT NO.: 5747.005.000	
SCALE:	NO SCALE
DRAWN BY:	ZR
CHECKED BY:	NS

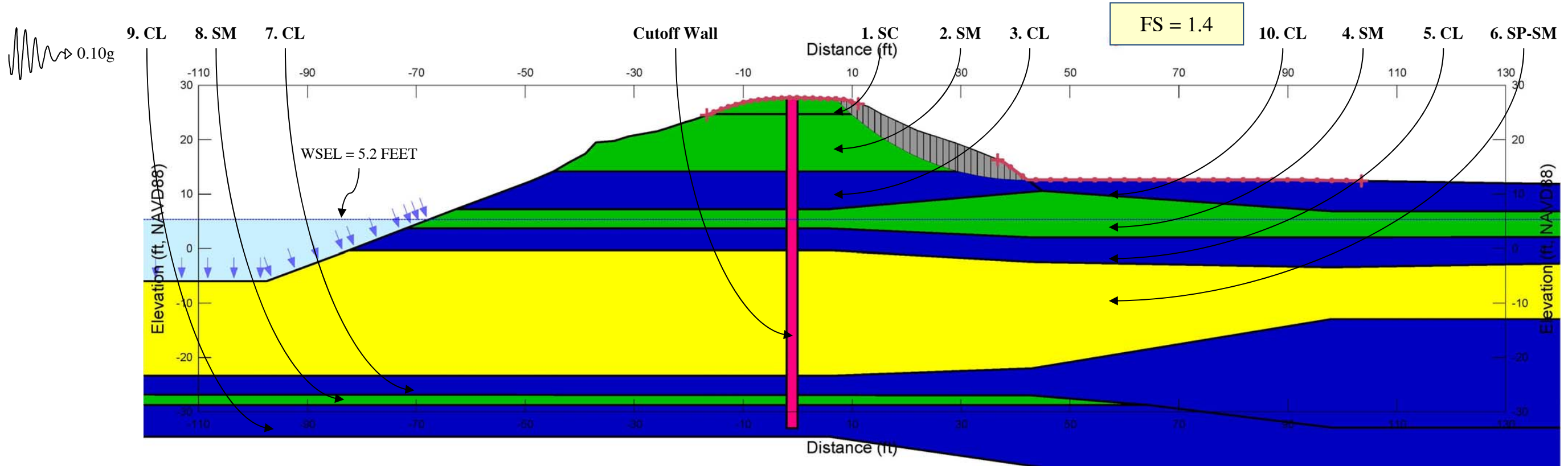
FIGURE NO.  
**E-27-F**

COPYRIGHT © 2014 BY ENGEO INCORPORATED. THIS DOCUMENT MAY NOT BE REPRODUCED IN WHOLE OR IN PART BY ANY MEANS WHATSOEVER, NOR MAY IT BE QUOTED OR EXCERPTED WITHOUT THE EXPRESS WRITTEN CONSENT OF ENGEO INCORPORATED.

### WATERSIDE SEISMIC



### LANDSIDE SEISMIC



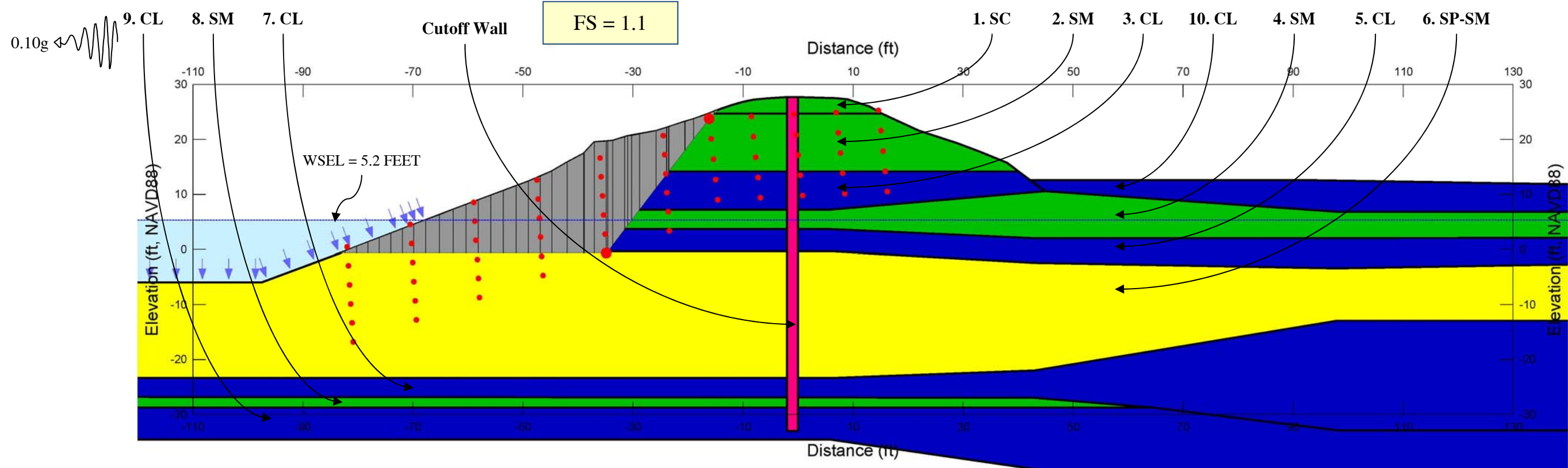
SEISMIC SLOPE STABILITY ANALYSIS  
 REACH G - STA 377+65  
 RECLAMATION DISTRICT NO. 17  
 SAN JOAQUIN COUNTY, CALIFORNIA

PROJECT NO.: 5747.005.000	
SCALE:	NO SCALE
DRAWN BY:	ZR
CHECKED BY:	NB

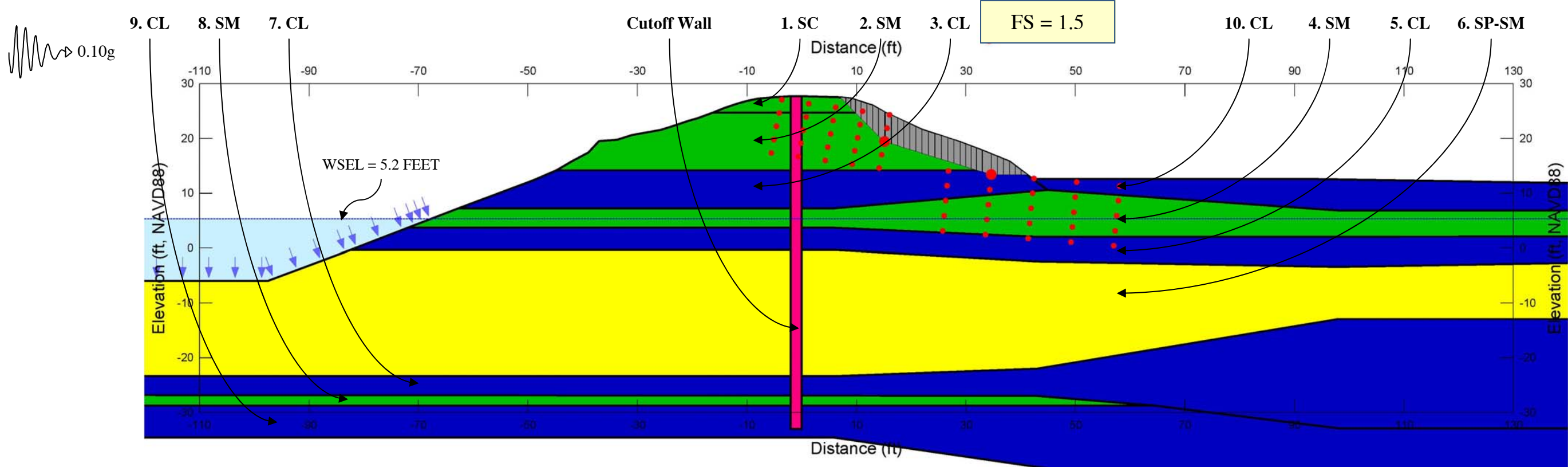
FIGURE NO.  
**E-27-G**

COPYRIGHT © 2014 BY ENGEO INCORPORATED. THIS DOCUMENT MAY NOT BE REPRODUCED IN WHOLE OR IN PART BY ANY MEANS WHATSOEVER WITHOUT THE EXPRESS WRITTEN CONSENT OF ENGEO INCORPORATED.

**WATERSIDE SEISMIC (NON-CIRCULAR FAILURE)**



**LANDSIDE SEISMIC (NON-CIRCULAR FAILURE)**



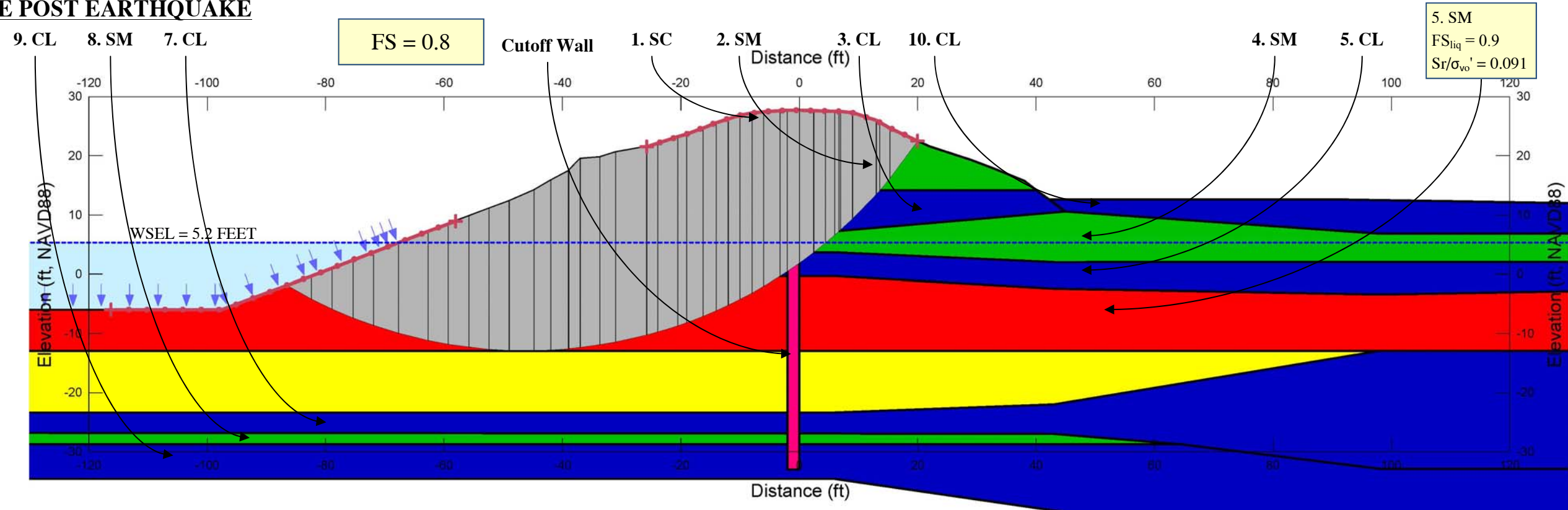
SEISMIC SLOPE STABILITY ANALYSIS  
 REACH G - STA 377+65  
 RECLAMATION DISTRICT NO. 17  
 SAN JOAQUIN COUNTY, CALIFORNIA

PROJECT NO.: 5747.005.000	
SCALE:	NO SCALE
DRAWN BY: ZR	CHECKED BY: NB

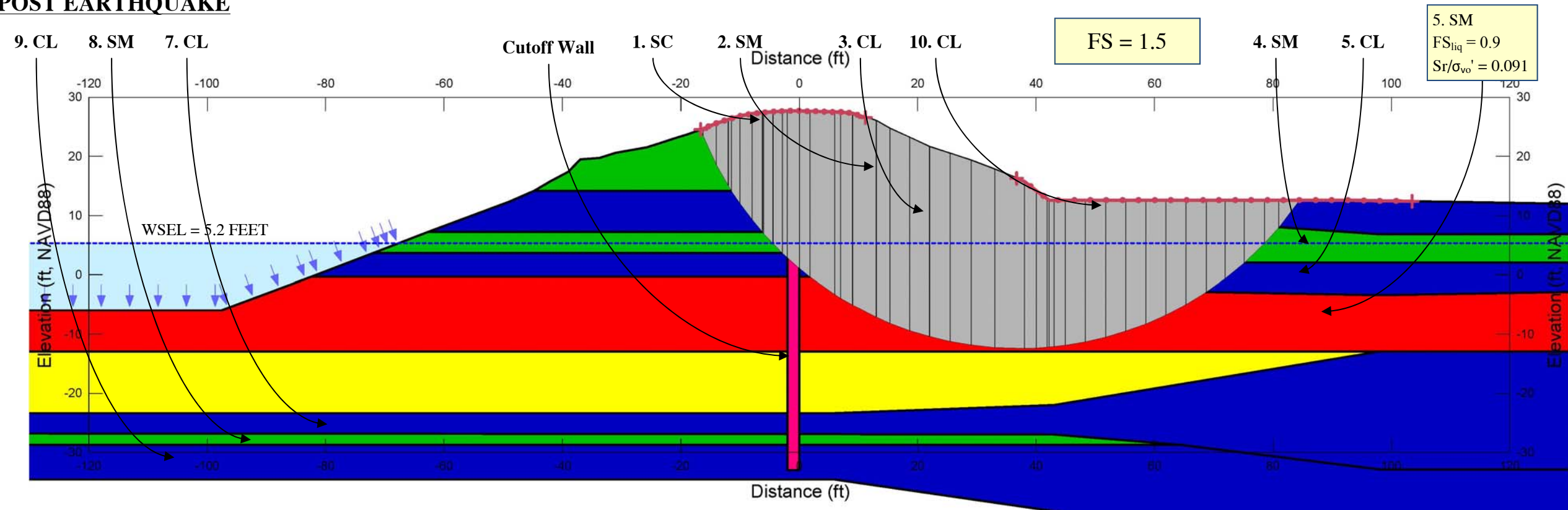
FIGURE NO.  
**E-27-H**


COPYRIGHT © 2014 BY ENGEO INCORPORATED. THIS DOCUMENT MAY NOT BE REPRODUCED IN WHOLE OR IN PART BY ANY MEANS WHATSOEVER, NOR MAY IT BE QUOTED OR EXCERPTED WITHOUT THE EXPRESS WRITTEN CONSENT OF ENGEO INCORPORATED.

### WATERSIDE POST EARTHQUAKE



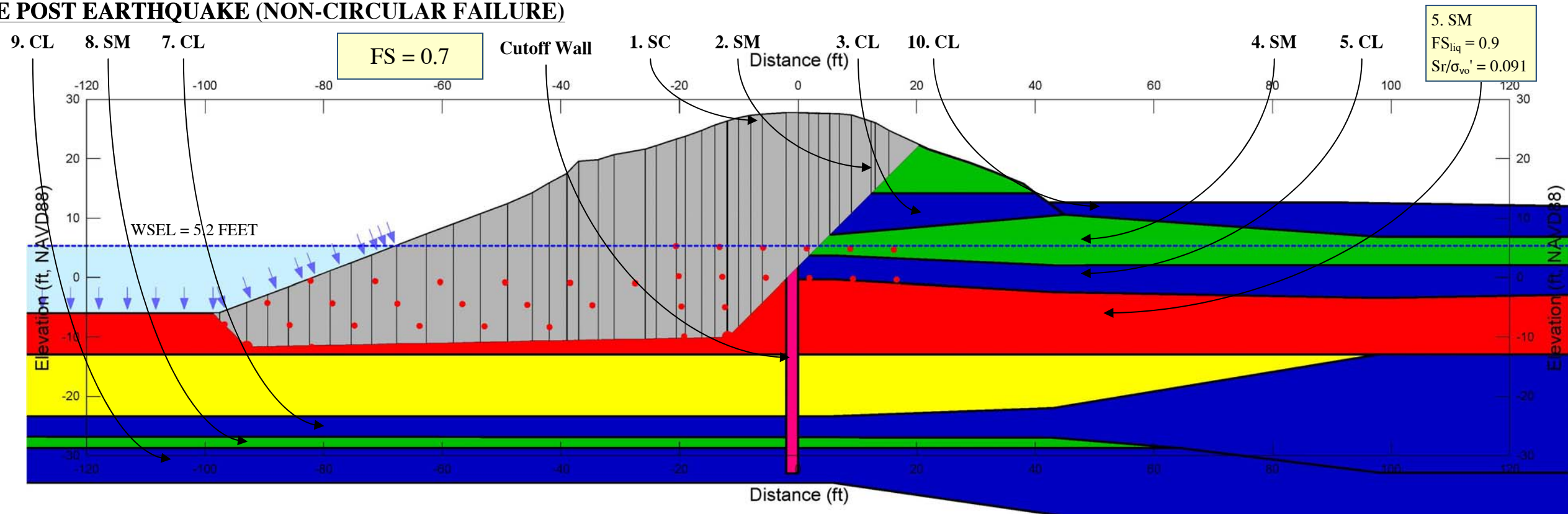
### LANDSIDE POST EARTHQUAKE



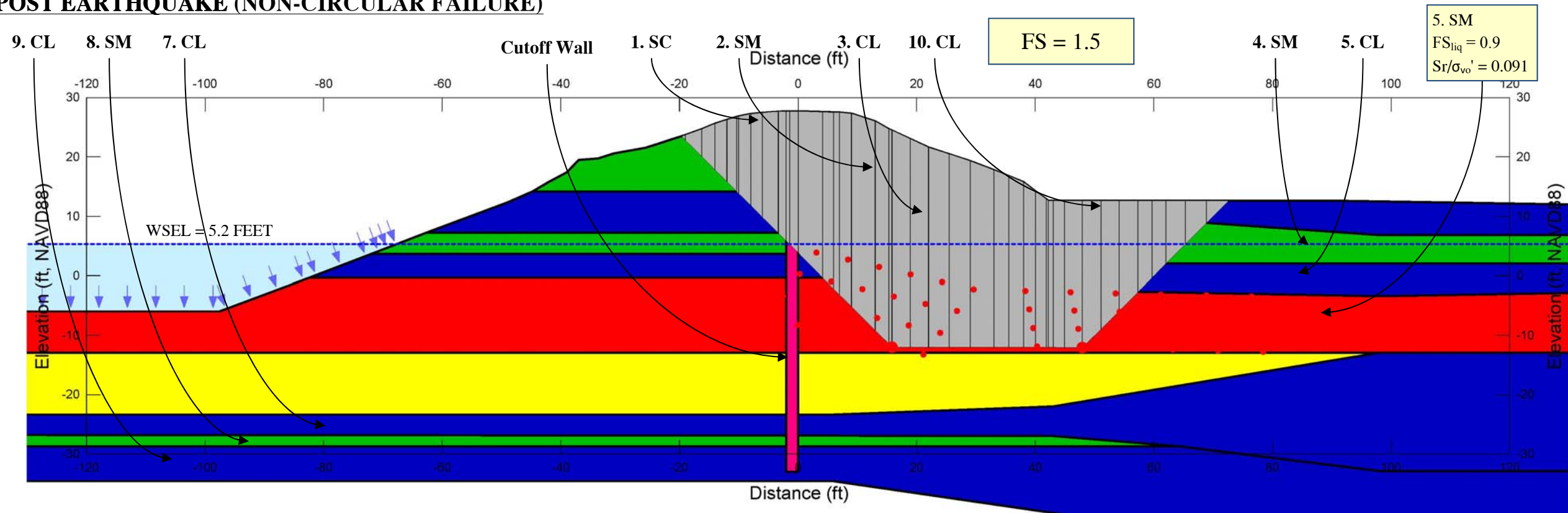
 <p>Expect Excellence</p>	SEISMIC SLOPE STABILITY ANALYSIS REACH G - STA 377+65 RECLAMATION DISTRICT NO. 17 SAN JOAQUIN COUNTY, CALIFORNIA		PROJECT NO.: 5747.005.000	FIGURE NO. E-27-I
			SCALE: NO SCALE	
			DRAWN BY: BA	CHECKED BY: NB

COPYRIGHT © 2014 BY ENGEO INCORPORATED. THIS DOCUMENT MAY NOT BE REPRODUCED IN WHOLE OR IN PART BY ANY MEANS WHATSOEVER, NOR MAY IT BE QUOTED OR EXCERPTED WITHOUT THE EXPRESS WRITTEN CONSENT OF ENGEO INCORPORATED.

### WATERSIDE POST EARTHQUAKE (NON-CIRCULAR FAILURE)



### LANDSIDE POST EARTHQUAKE (NON-CIRCULAR FAILURE)



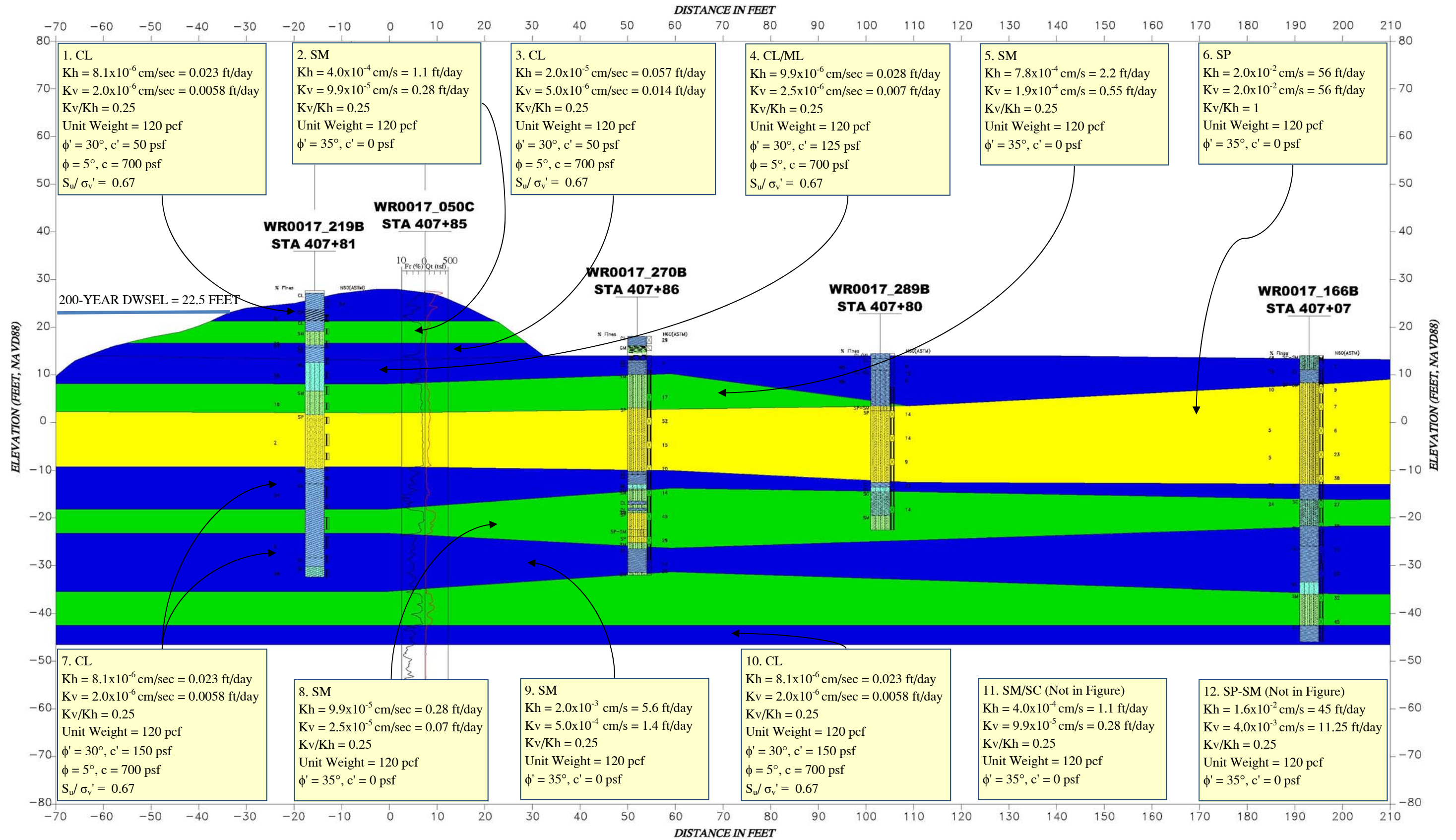
SEISMIC SLOPE STABILITY ANALYSIS  
REACH G - STA 377+65  
RECLAMATION DISTRICT NO. 17  
SAN JOAQUIN COUNTY, CALIFORNIA

PROJECT NO.: 5747.005.000	
SCALE:	NO SCALE
DRAWN BY:	BA
CHECKED BY:	NB

FIGURE NO.  
E-27-J

# WATERSIDE

# LANDSIDE



COPYRIGHT © 2014 BY ENGEO INCORPORATED. THIS DOCUMENT MAY NOT BE REPRODUCED IN WHOLE OR IN PART BY ANY MEANS WHATSOEVER, NOR MAY IT BE QUOTED OR EXCERPTED WITHOUT THE EXPRESS WRITTEN CONSENT OF ENGEO INCORPORATED.

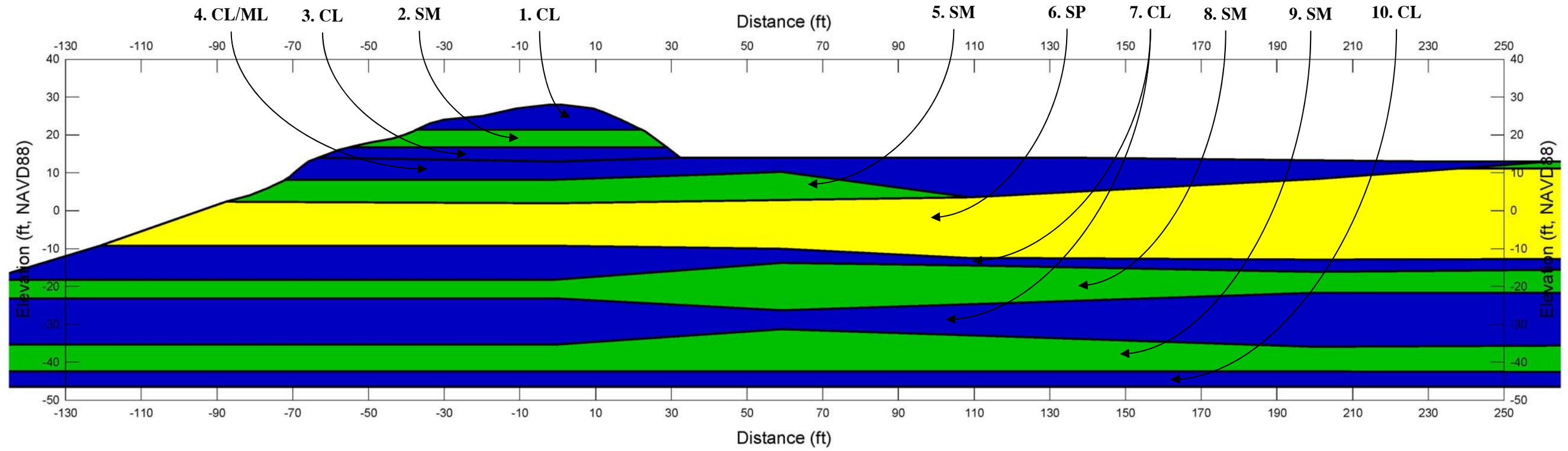


CROSS SECTION & MATERIAL PARAMETERS  
 REACH H1A- STA 408+00  
 RECLAMATION DISTRICT NO. 17  
 SAN JOAQUIN COUNTY, CALIFORNIA

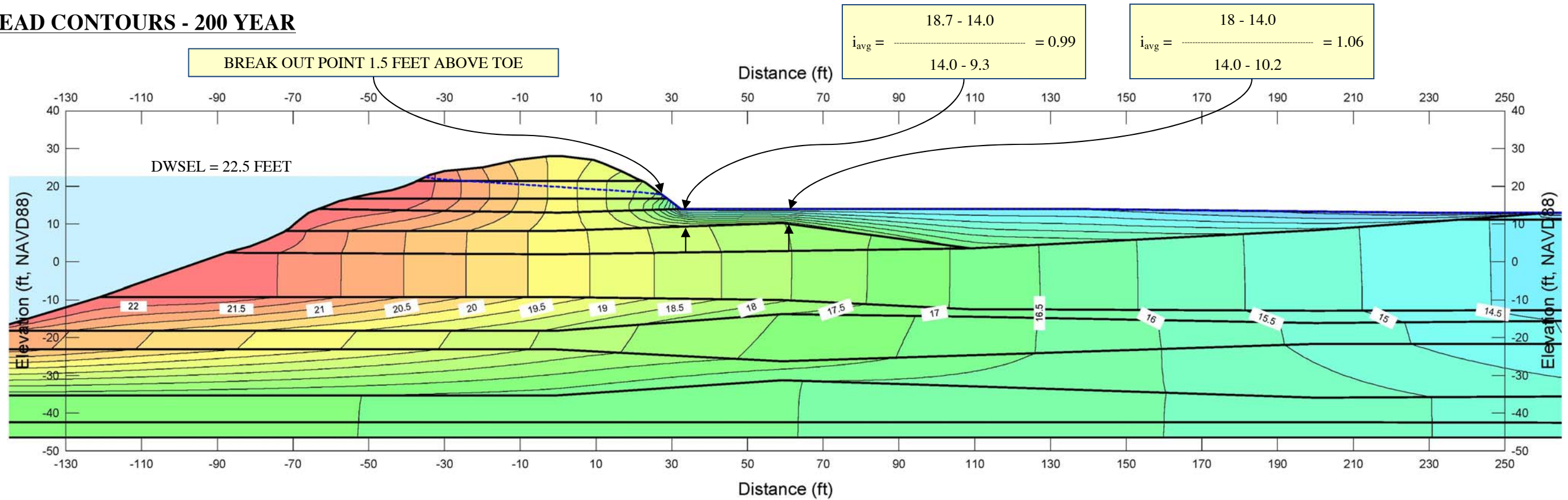
PROJECT NO.: 5747.005.000	
SCALE:	NO SCALE
DRAWN BY:	ZH
CHECKED BY:	NS

FIGURE NO.  
**E-28-A**

### GEOMETRY OF MODEL

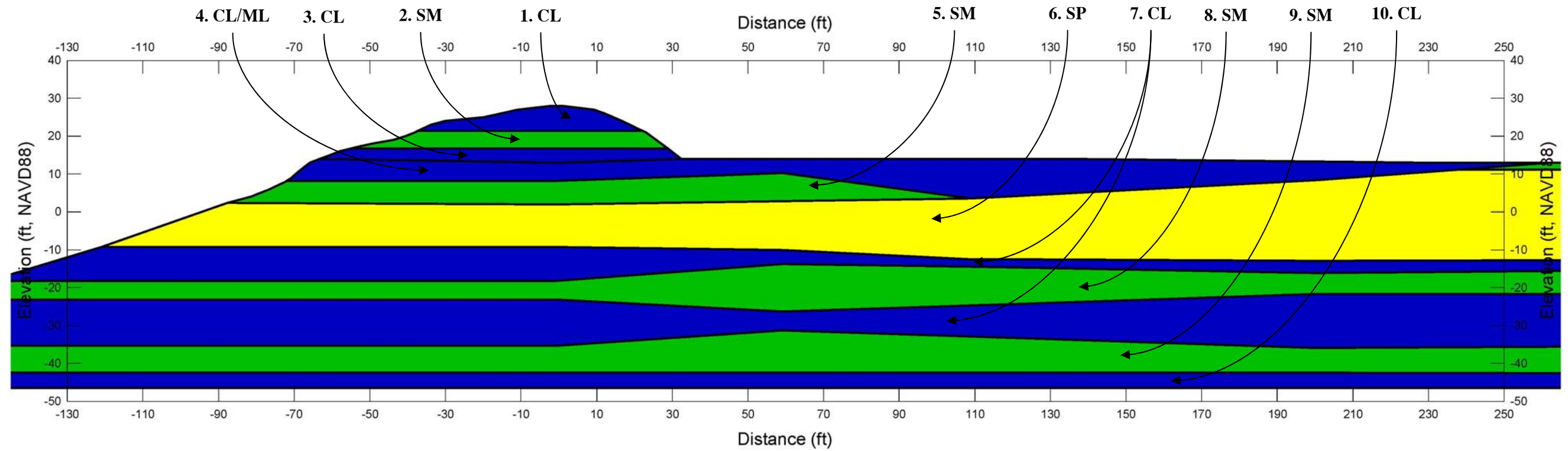


### TOTAL HEAD CONTOURS - 200 YEAR

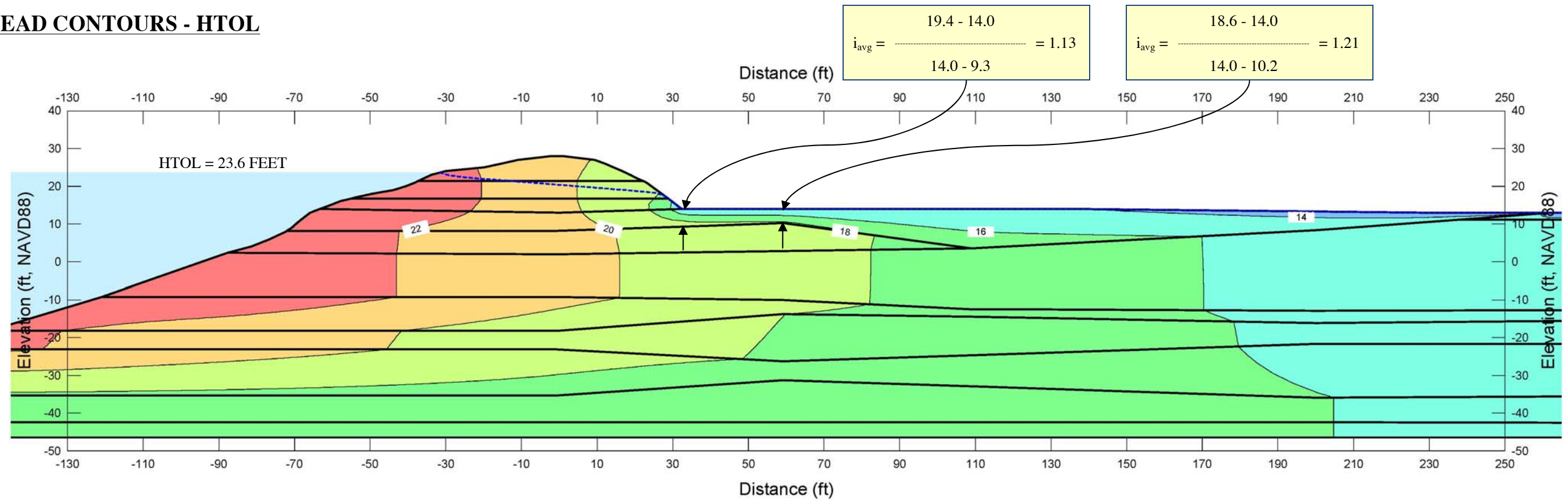


COPYRIGHT © 2014 BY ENGEO INCORPORATED. THIS DOCUMENT MAY NOT BE REPRODUCED IN WHOLE OR IN PART BY ANY MEANS WHATSOEVER, NOR MAY IT BE QUOTED OR EXCERPTED WITHOUT THE EXPRESS WRITTEN CONSENT OF ENGEO INCORPORATED.

### GEOMETRY OF MODEL



### TOTAL HEAD CONTOURS - HTOL



SEEPAGE ANALYSIS  
 REACH H1A- STA 408+00  
 RECLAMATION DISTRICT NO. 17  
 SAN JOAQUIN COUNTY, CALIFORNIA

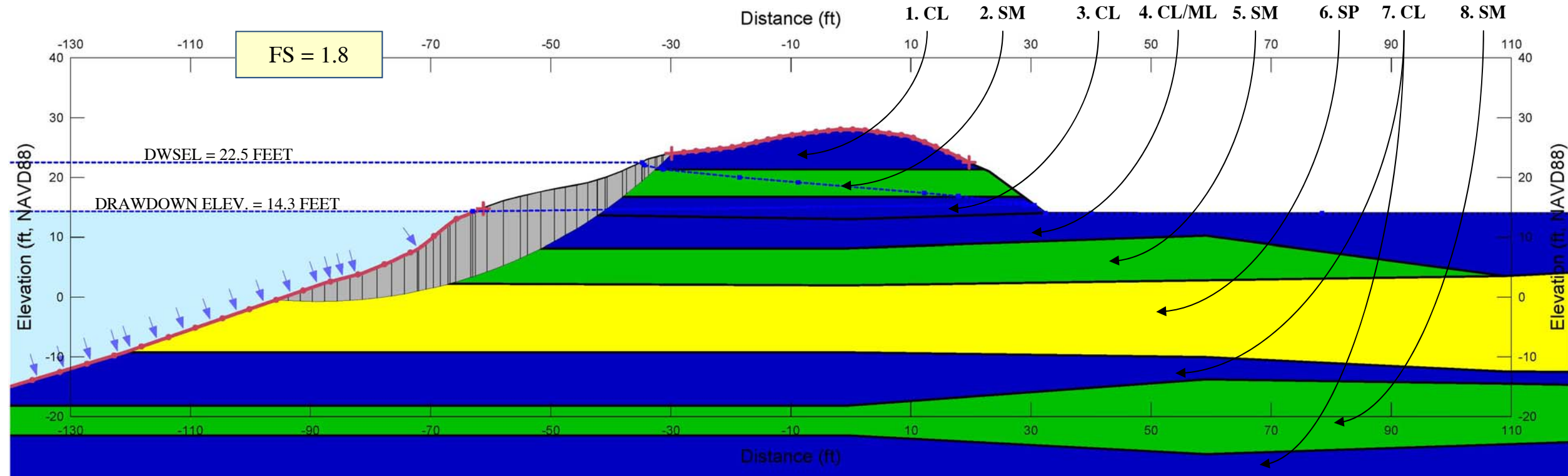
PROJECT NO.: 5747.005.000	
SCALE: NO SCALE	
DRAWN BY: AL	CHECKED BY: NS

FIGURE NO.  
**E-28-C**

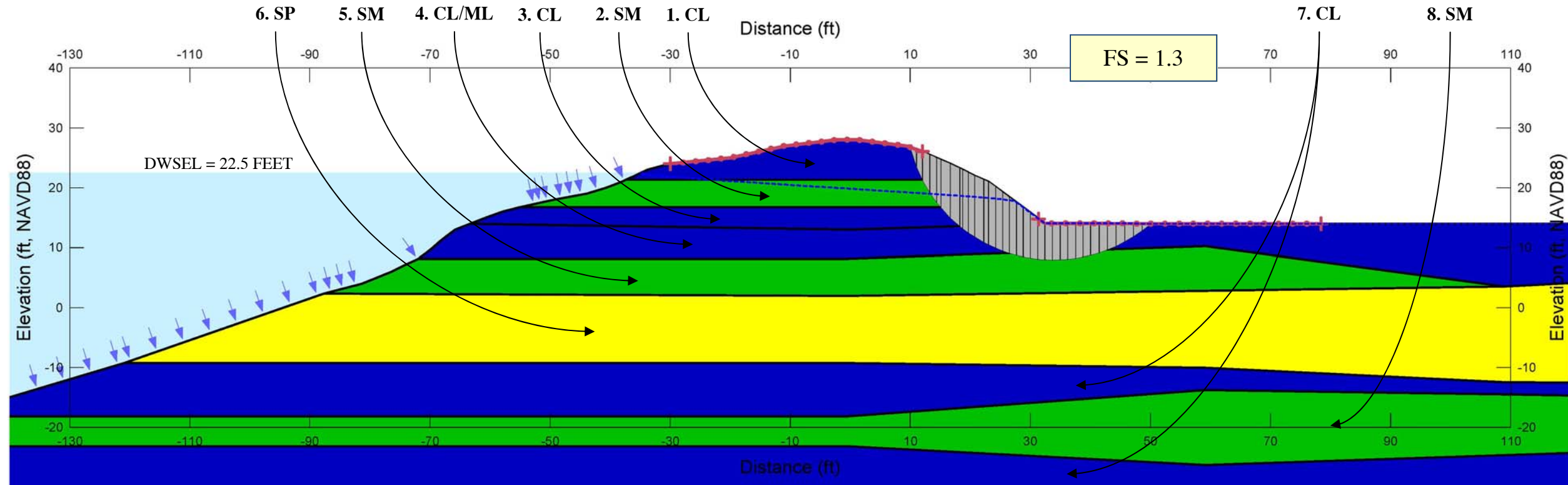


COPYRIGHT © 2014 BY ENGEO INCORPORATED. THIS DOCUMENT MAY NOT BE REPRODUCED IN WHOLE OR IN PART BY ANY MEANS WHATSOEVER, NOR MAY IT BE QUOTED OR EXCERPTED WITHOUT THE EXPRESS WRITTEN CONSENT OF ENGEO INCORPORATED.

### WATERSIDE RAPID DRAWDOWN



### LANDSIDE STEADY STATE SEEPAGE - 200 YEAR



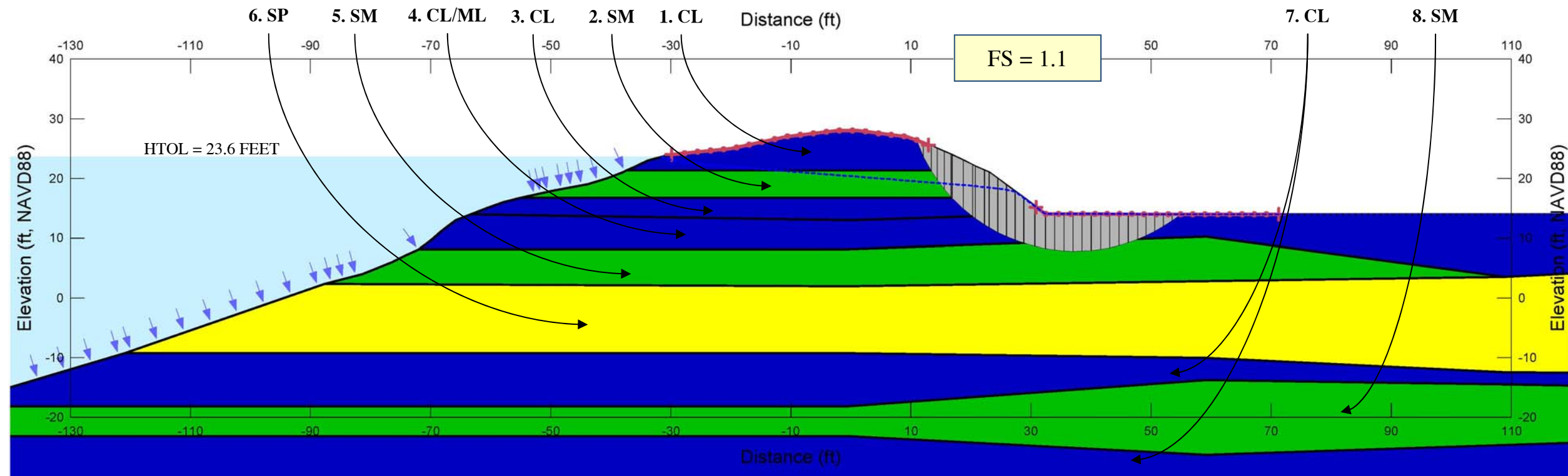
STATIC SLOPE STABILITY ANALYSIS  
 REACH H1A- STA 408+00  
 RECLAMATION DISTRICT NO. 17  
 SAN JOAQUIN COUNTY, CALIFORNIA

PROJECT NO.: 5747.005.000	
SCALE: NO SCALE	
DRAWN BY: AL	CHECKED BY: NS

FIGURE NO.  
**E-28-D**

COPYRIGHT © 2014 BY ENGEO INCORPORATED. THIS DOCUMENT MAY NOT BE REPRODUCED IN WHOLE OR IN PART BY ANY MEANS WHATSOEVER, NOR MAY IT BE QUOTED OR EXCERPTED WITHOUT THE EXPRESS WRITTEN CONSENT OF ENGEO INCORPORATED.

### LANDSIDE STEADY STATE SEEPAGE - HTOL

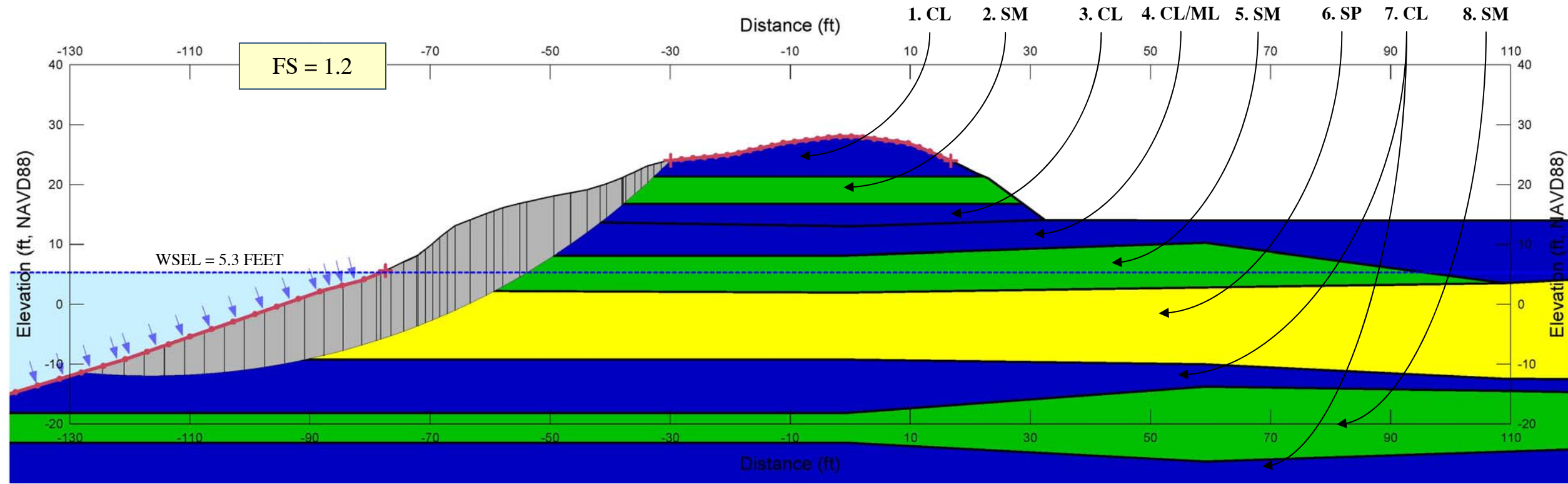
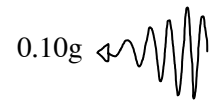


STATIC SLOPE STABILITY ANALYSIS  
 REACH H1A- STA 408+00  
 RECLAMATION DISTRICT NO. 17  
 SAN JOAQUIN COUNTY, CALIFORNIA

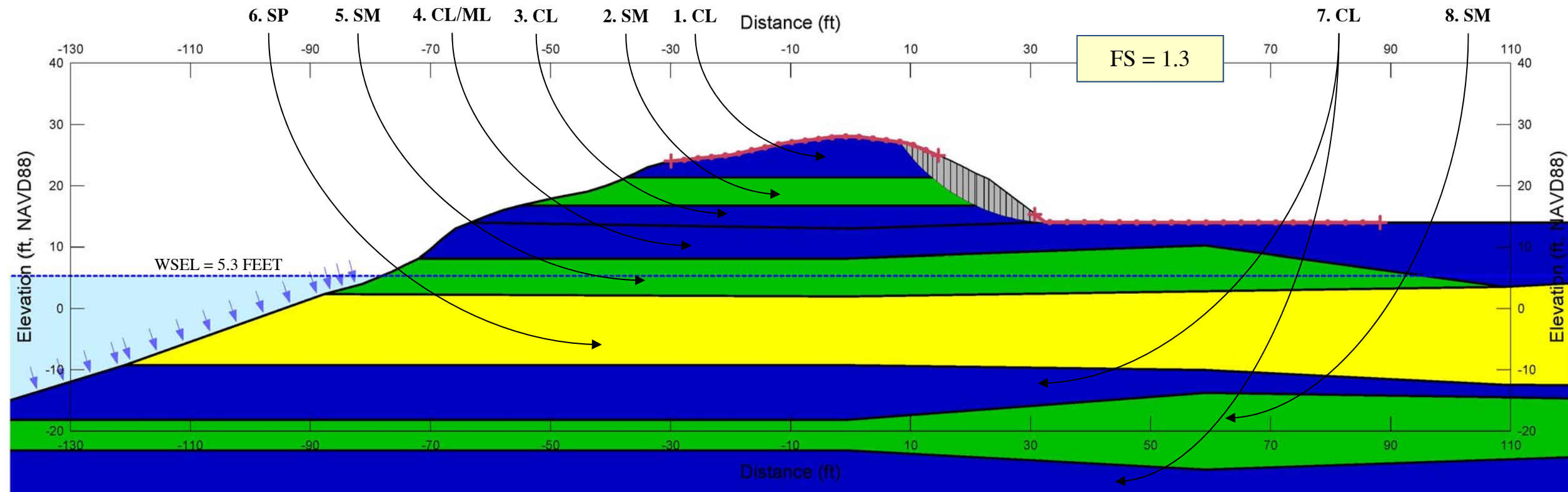
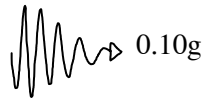
PROJECT NO.: 5747.005.000	
SCALE: NO SCALE	
DRAWN BY: AL	CHECKED BY: NS

FIGURE NO.  
**E-28-E**

**WATERSIDE SEISMIC**



**LANDSIDE SEISMIC**



COPYRIGHT © 2014 BY ENGEO INCORPORATED. THIS DOCUMENT MAY NOT BE REPRODUCED IN WHOLE OR IN PART BY ANY MEANS WHATSOEVER, NOR MAY IT BE QUOTED OR EXCERPTED WITHOUT THE EXPRESS WRITTEN CONSENT OF ENGEO INCORPORATED.



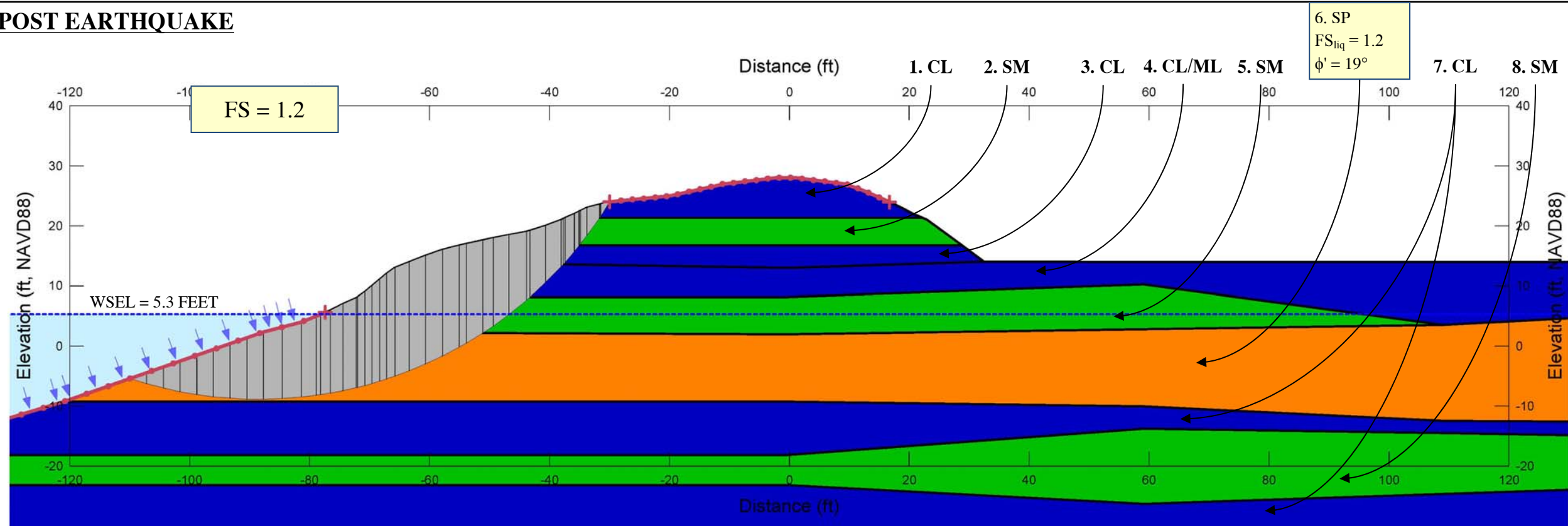
SEISMIC SLOPE STABILITY ANALYSIS  
 REACH H1A- STA 408+00  
 RECLAMATION DISTRICT NO. 17  
 SAN JOAQUIN COUNTY, CALIFORNIA

PROJECT NO.: 5747.005.000	
SCALE:	NO SCALE
DRAWN BY:	AL
CHECKED BY:	NS

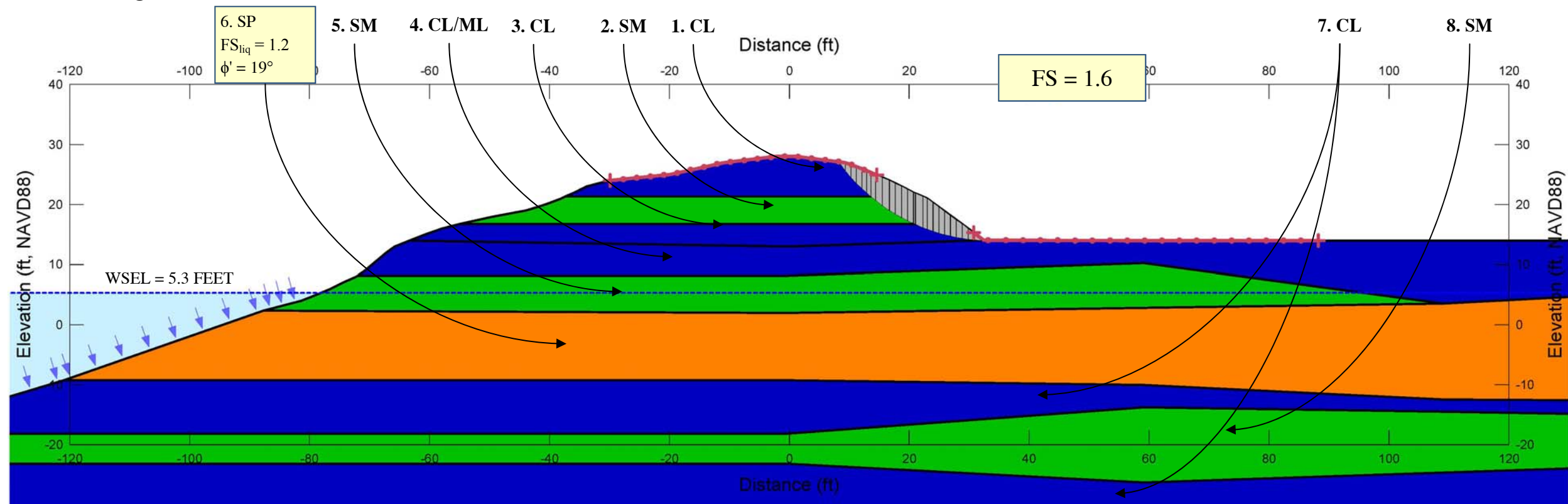
FIGURE NO.  
**E-28-F**

COPYRIGHT © 2014 BY ENGEO INCORPORATED. THIS DOCUMENT MAY NOT BE REPRODUCED IN WHOLE OR IN PART BY ANY MEANS WHATSOEVER, NOR MAY IT BE QUOTED OR EXCERPTED WITHOUT THE EXPRESS WRITTEN CONSENT OF ENGEO INCORPORATED.

### WATERSIDE POST EARTHQUAKE



### LANDSIDE POST EARTHQUAKE



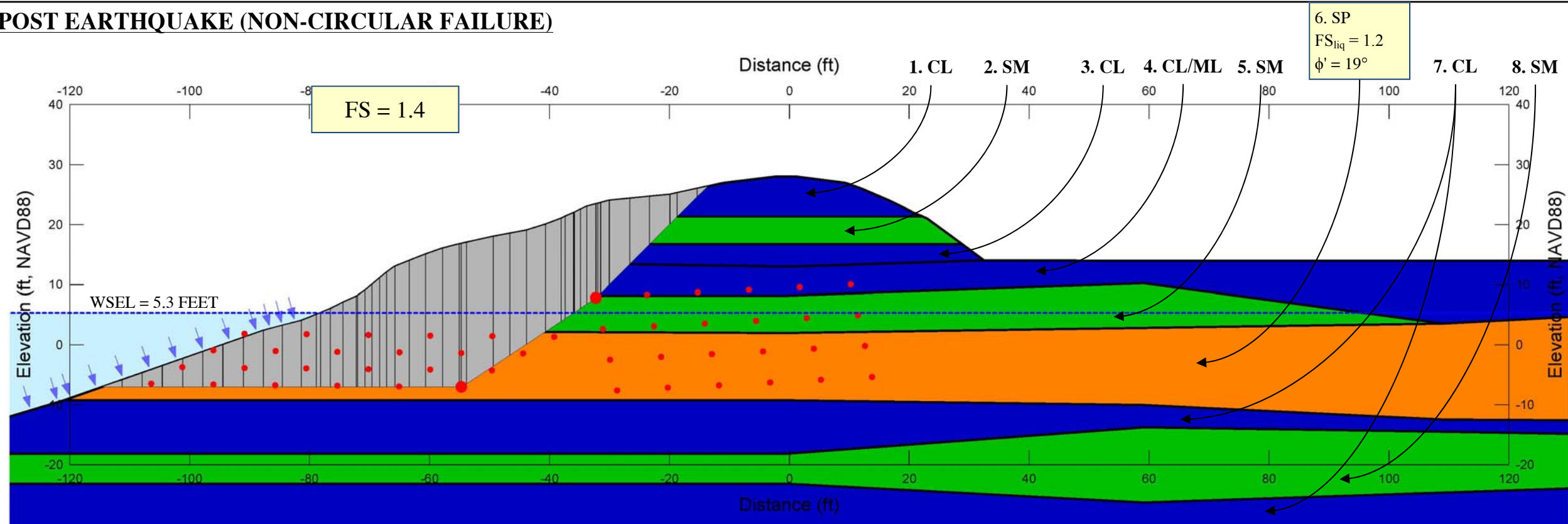
SEISMIC SLOPE STABILITY ANALYSIS  
 REACH H1A- STA 408+00  
 RECLAMATION DISTRICT NO. 17  
 SAN JOAQUIN COUNTY, CALIFORNIA

PROJECT NO.: 5747.005.000	
SCALE:	NO SCALE
DRAWN BY:	BA
CHECKED BY:	CC

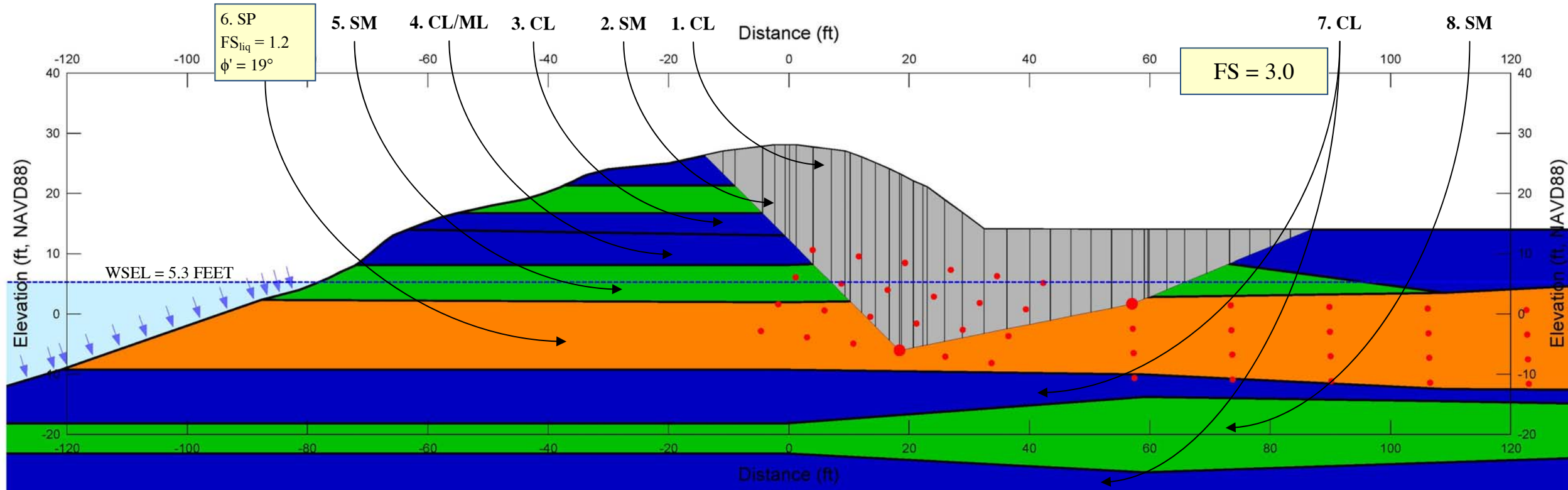
FIGURE NO.  
**E-28-G**

COPYRIGHT © 2014 BY ENGEO INCORPORATED. THIS DOCUMENT MAY NOT BE REPRODUCED IN WHOLE OR IN PART BY ANY MEANS WHATSOEVER, NOR MAY IT BE QUOTED OR EXCERPTED WITHOUT THE EXPRESS WRITTEN CONSENT OF ENGEO INCORPORATED.

### WATERSIDE POST EARTHQUAKE (NON-CIRCULAR FAILURE)



### LANDSIDE POST EARTHQUAKE (NON-CIRCULAR FAILURE)



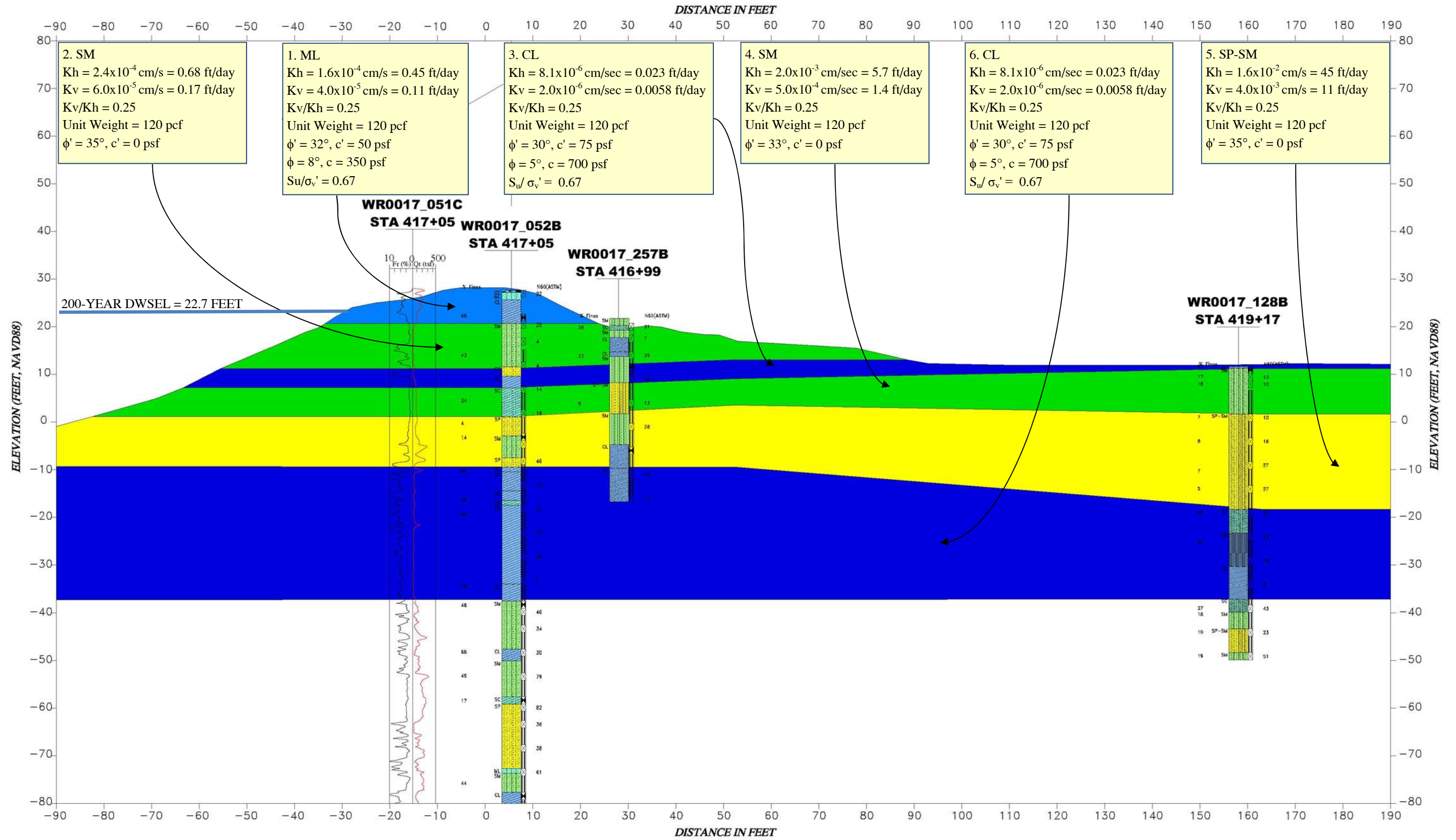
SEISMIC SLOPE STABILITY ANALYSIS  
 REACH H1A- STA 408+00  
 RECLAMATION DISTRICT NO. 17  
 SAN JOAQUIN COUNTY, CALIFORNIA

PROJECT NO.: 5747.005.000	
SCALE: NO SCALE	
DRAWN BY: BA	CHECKED BY: CC

FIGURE NO.  
**E-28-H**

# WATERSIDE

# LANDSIDE



COPYRIGHT © 2014 BY ENGEO INCORPORATED. THIS DOCUMENT MAY NOT BE REPRODUCED IN WHOLE OR IN PART BY ANY MEANS WHATSOEVER, NOR MAY IT BE QUOTED OR EXCERPTED WITHOUT THE EXPRESS WRITTEN CONSENT OF ENGEO INCORPORATED.



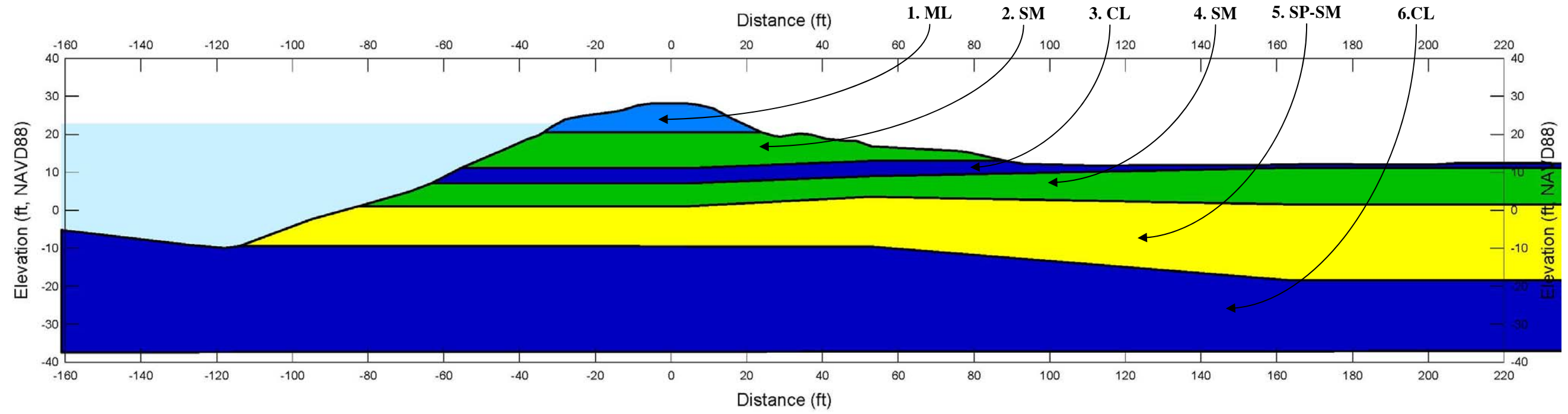
**CROSS SECTION & MATERIAL PARAMETERS**  
 REACH H1B - STA 416+86  
 RECLAMATION DISTRICT NO. 17  
 SAN JOAQUIN COUNTY, CALIFORNIA

PROJECT NO.: 5747.005.000	
SCALE:	NO SCALE
DRAWN BY:	ZH
CHECKED BY:	AL

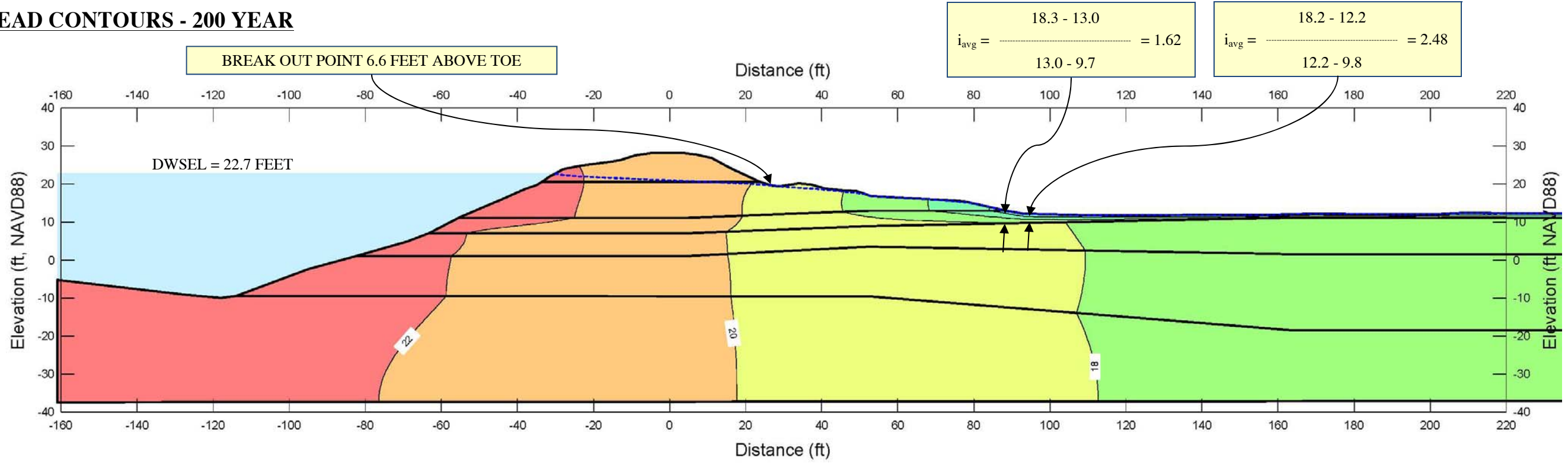
FIGURE NO.  
**E-29-A**

COPYRIGHT © 2014 BY ENGEO INCORPORATED. THIS DOCUMENT MAY NOT BE REPRODUCED IN WHOLE OR IN PART BY ANY MEANS WHATSOEVER, NOR MAY IT BE QUOTED OR EXCERPTED WITHOUT THE EXPRESS WRITTEN CONSENT OF ENGEO INCORPORATED.

**GEOMETRY OF MODEL**



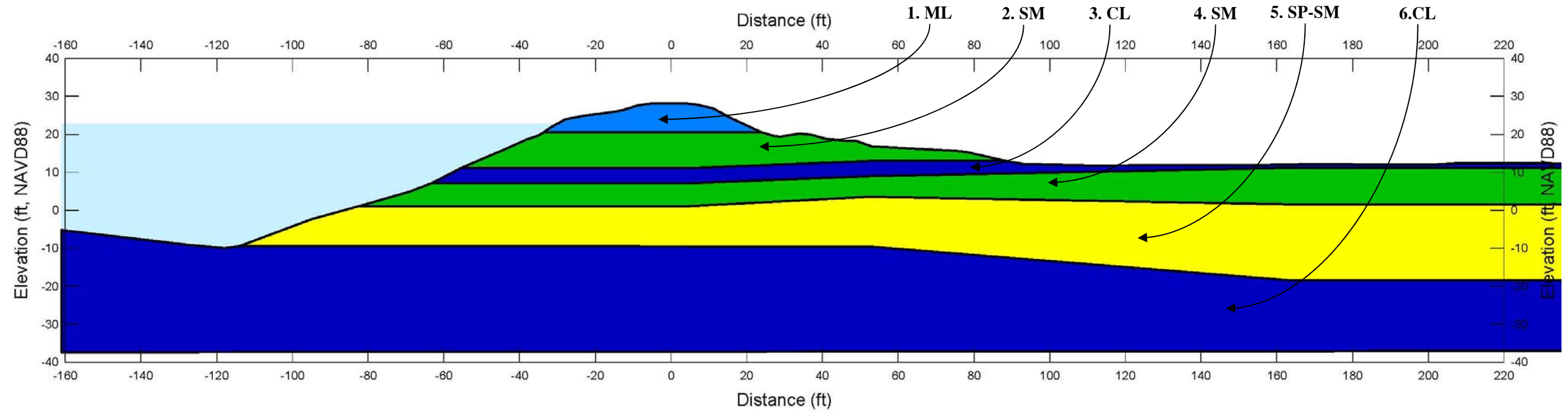
**TOTAL HEAD CONTOURS - 200 YEAR**



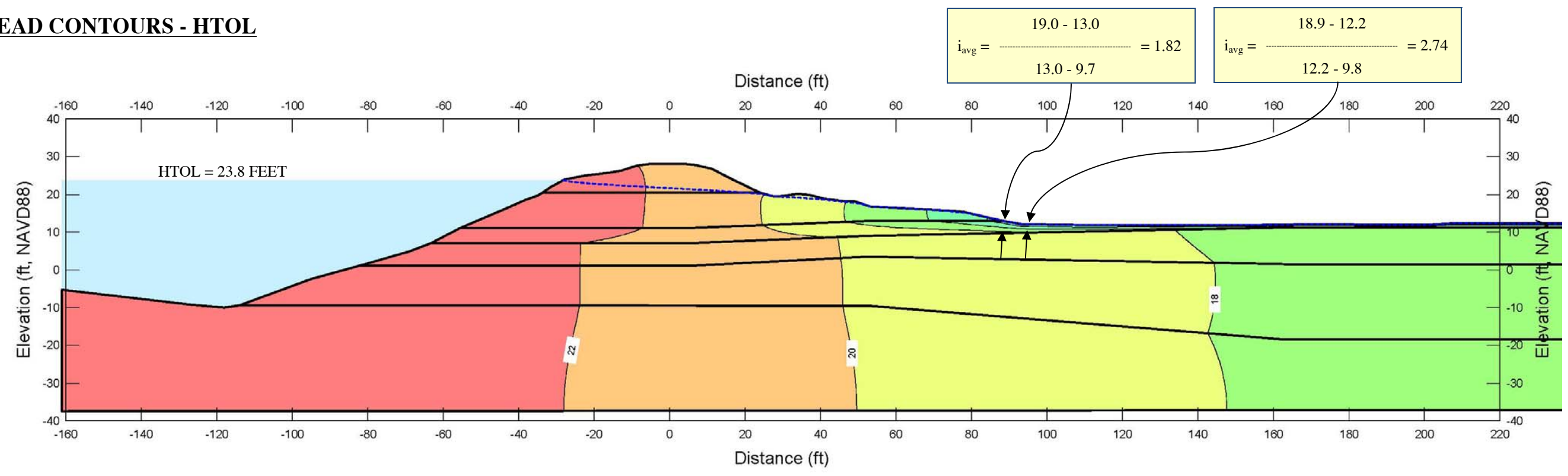
	SEEPAGE ANALYSIS REACH H1B - STA 416+86 RECLAMATION DISTRICT NO. 17 SAN JOAQUIN COUNTY, CALIFORNIA	PROJECT NO.: 5747.005.000 SCALE: NO SCALE DRAWN BY: AL   CHECKED BY: NS	FIGURE NO. <b>E-29-B</b>
--	---	---	-----------------------------

COPYRIGHT © 2014 BY ENGEO INCORPORATED. THIS DOCUMENT MAY NOT BE REPRODUCED IN WHOLE OR IN PART BY ANY MEANS WHATSOEVER, NOR MAY IT BE QUOTED OR EXCERPTED WITHOUT THE EXPRESS WRITTEN CONSENT OF ENGEO INCORPORATED.

### GEOMETRY OF MODEL



### TOTAL HEAD CONTOURS - HTOL

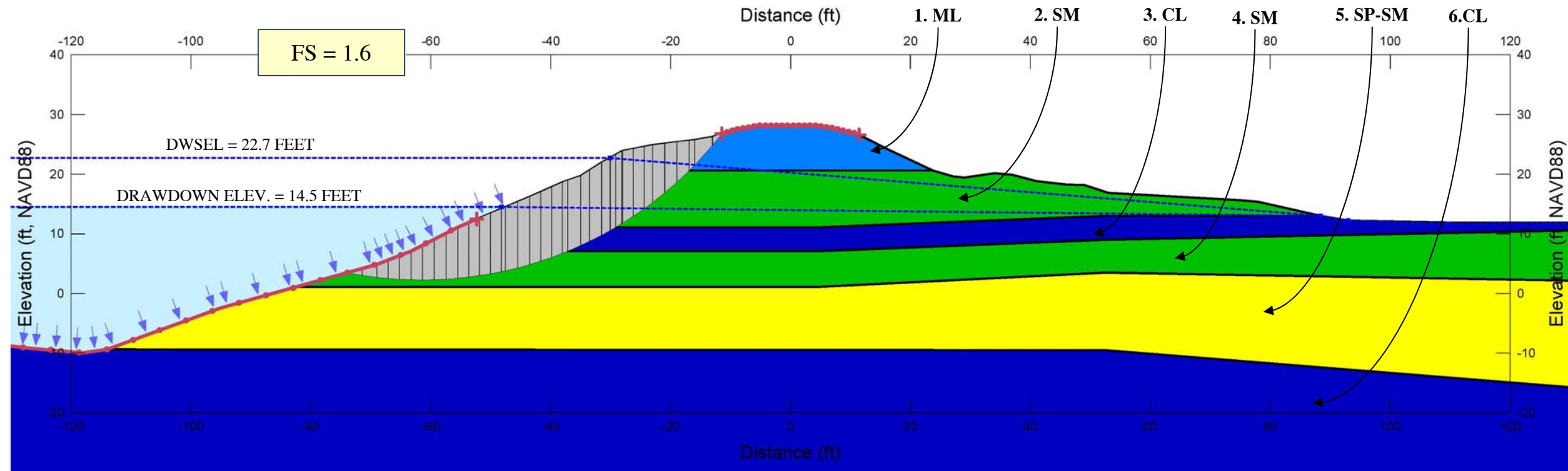


	SEEPAGE ANALYSIS REACH H1B - STA 416+86 RECLAMATION DISTRICT NO. 17 SAN JOAQUIN COUNTY, CALIFORNIA		PROJECT NO.: 5747.005.000	FIGURE NO.  <b>E-29-C</b>
			SCALE: NO SCALE	
			DRAWN BY: AL    CHECKED BY: NS	

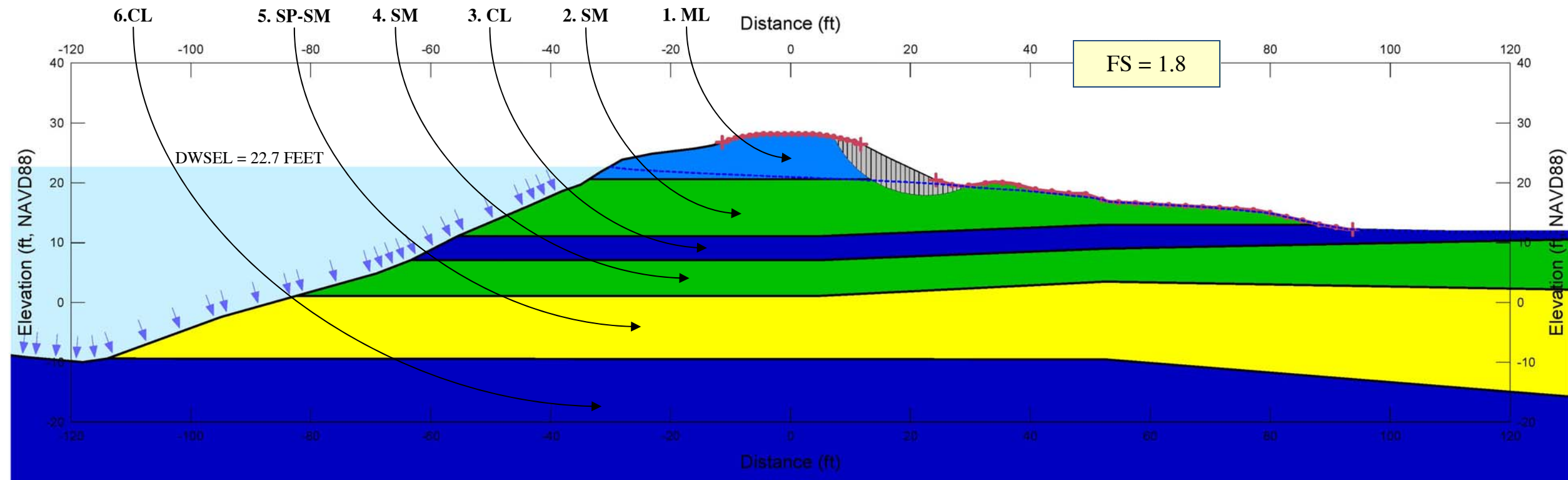


COPYRIGHT © 2014 BY ENGEO INCORPORATED. THIS DOCUMENT MAY NOT BE REPRODUCED IN WHOLE OR IN PART BY ANY MEANS WHATSOEVER, NOR MAY IT BE QUOTED OR EXCERPTED WITHOUT THE EXPRESS WRITTEN CONSENT OF ENGEO INCORPORATED.

### WATERSIDE RAPID DRAWDOWN



### LANDSIDE STEADY STATE SEEPAGE - 200 YEAR



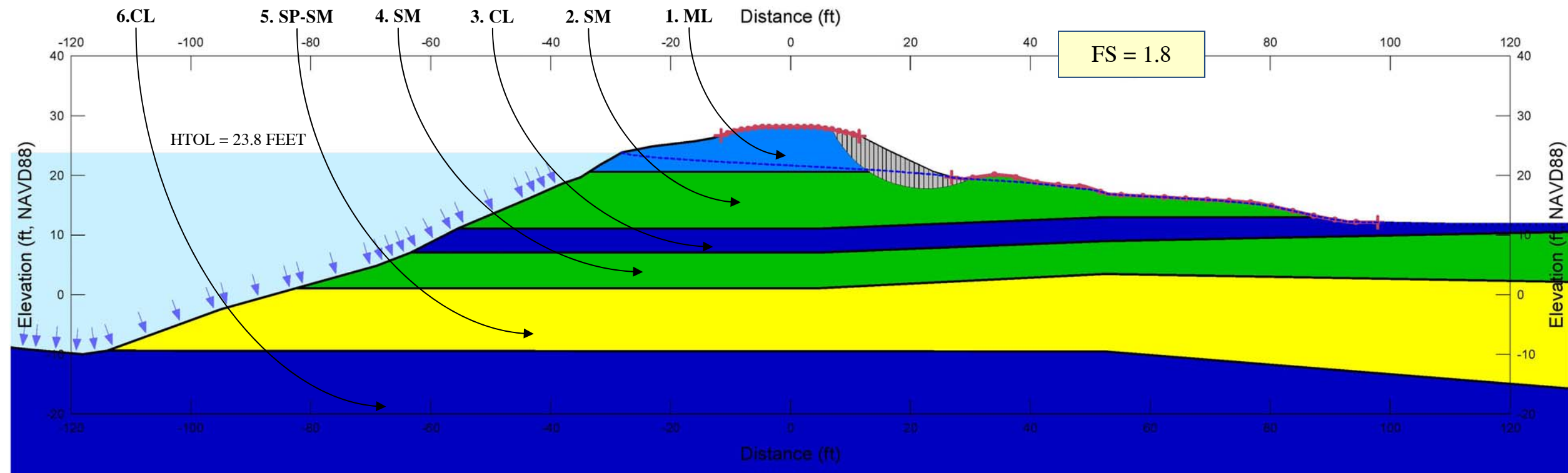
STATIC SLOPE STABILITY ANALYSIS  
REACH H1B - STA 416+86  
RECLAMATION DISTRICT NO. 17  
SAN JOAQUIN COUNTY, CALIFORNIA

PROJECT NO.: 5747.005.000	
SCALE:	NO SCALE
DRAWN BY:	AL
CHECKED BY:	NS

FIGURE NO.  
E-29-D

COPYRIGHT © 2014 BY ENGEO INCORPORATED. THIS DOCUMENT MAY NOT BE REPRODUCED IN WHOLE OR IN PART BY ANY MEANS WHATSOEVER WITHOUT THE EXPRESS WRITTEN CONSENT OF ENGEO INCORPORATED.

### LANDSIDE STEADY STATE SEEPAGE - HTOL



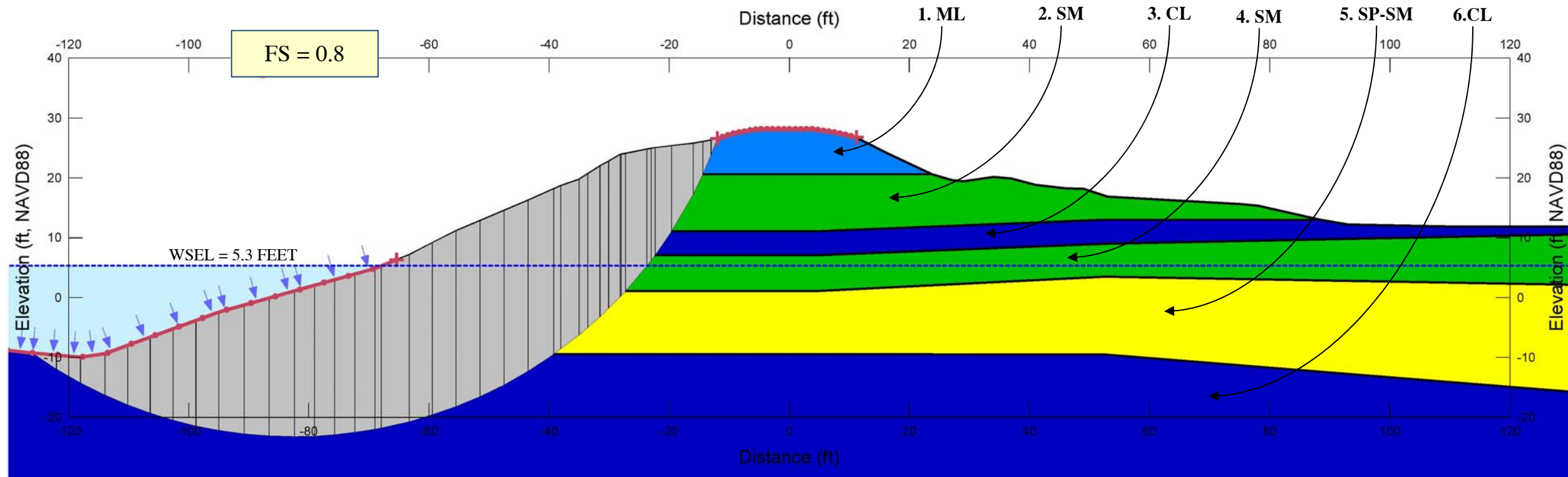
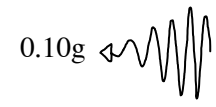
STATIC SLOPE STABILITY ANALYSIS  
 REACH H1B - STA 416+86  
 RECLAMATION DISTRICT NO. 17  
 SAN JOAQUIN COUNTY, CALIFORNIA

PROJECT NO.: 5747.005.000	
SCALE: NO SCALE	
DRAWN BY: AL	CHECKED BY: NS

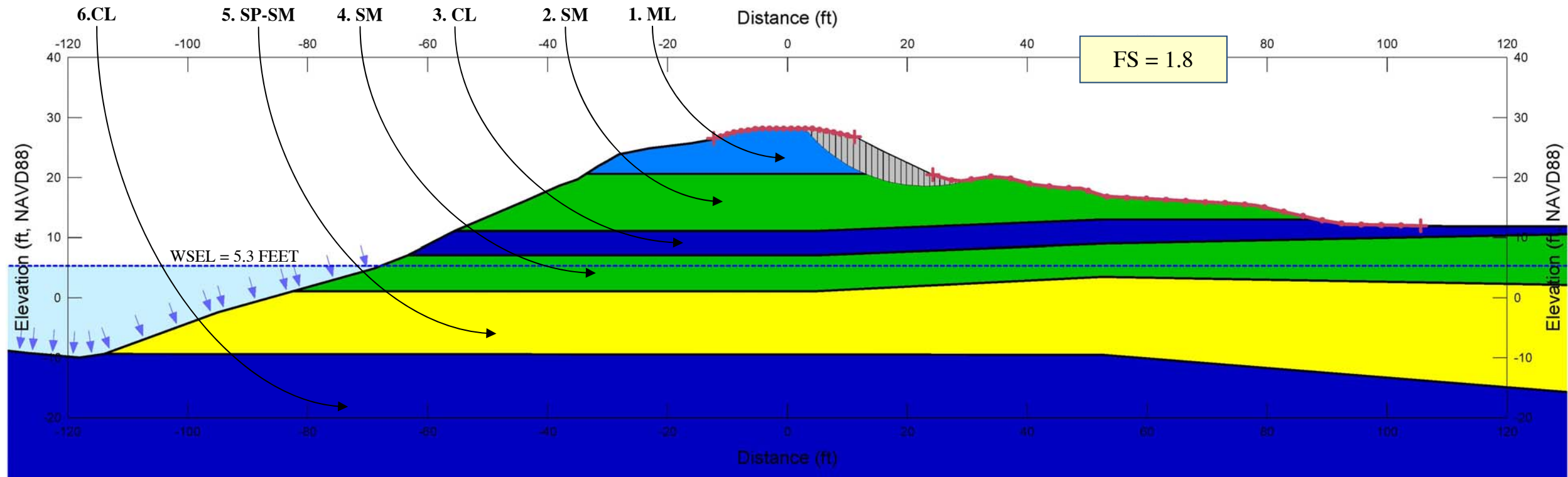
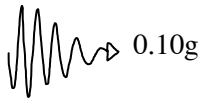
FIGURE NO.  
**E-29-E**

COPYRIGHT © 2014 BY ENGEO INCORPORATED. THIS DOCUMENT MAY NOT BE REPRODUCED IN WHOLE OR IN PART BY ANY MEANS WHATSOEVER, NOR MAY IT BE QUOTED OR EXCERPTED WITHOUT THE EXPRESS WRITTEN CONSENT OF ENGEO INCORPORATED.

### WATERSIDE SEISMIC



### LANDSIDE SEISMIC



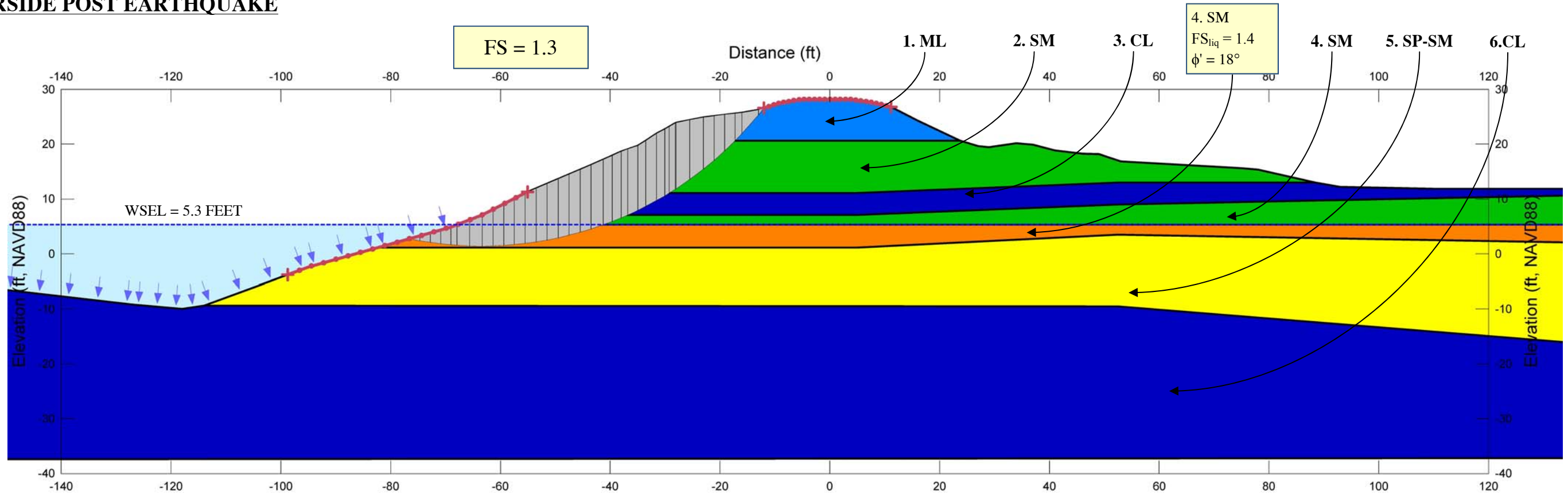
SEISMIC SLOPE STABILITY ANALYSIS  
 REACH H1B - STA 416+86  
 RECLAMATION DISTRICT NO. 17  
 SAN JOAQUIN COUNTY, CALIFORNIA

PROJECT NO.: 5747.005.000	
SCALE: NO SCALE	
DRAWN BY: AL	CHECKED BY: NS

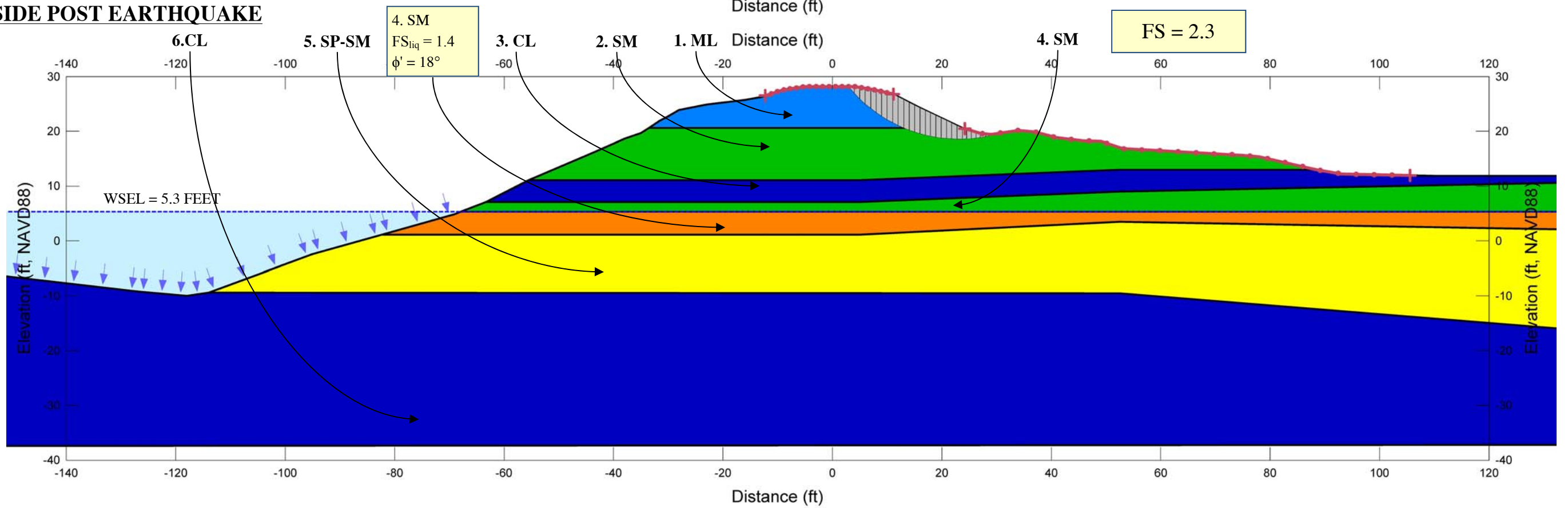
FIGURE NO.  
**E-29-F**

COPYRIGHT © 2014 BY ENGEO INCORPORATED. THIS DOCUMENT MAY NOT BE REPRODUCED IN WHOLE OR IN PART BY ANY MEANS WHATSOEVER, NOR MAY IT BE QUOTED OR EXCERPTED WITHOUT THE EXPRESS WRITTEN CONSENT OF ENGEO INCORPORATED.

### WATERSIDE POST EARTHQUAKE



### LANDSIDE POST EARTHQUAKE



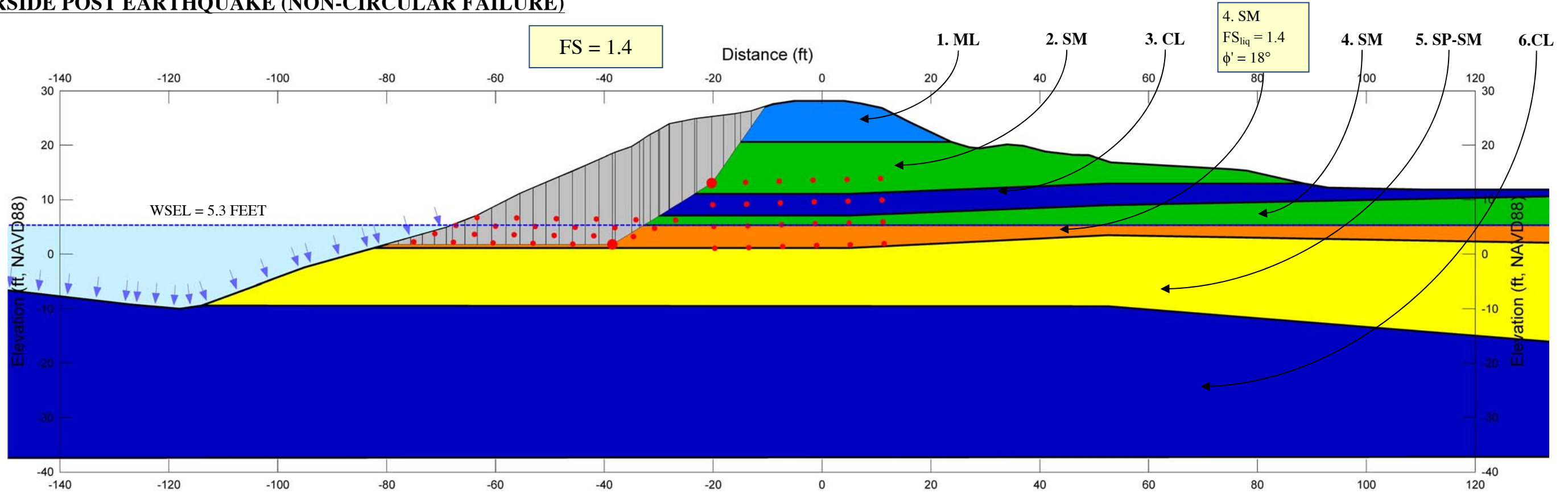
SEISMIC SLOPE STABILITY ANALYSIS  
 REACH H1B - STA 416+86  
 RECLAMATION DISTRICT NO. 17  
 SAN JOAQUIN COUNTY, CALIFORNIA

PROJECT NO.: 5747.005.000	
SCALE: NO SCALE	
DRAWN BY: BA	CHECKED BY: CC

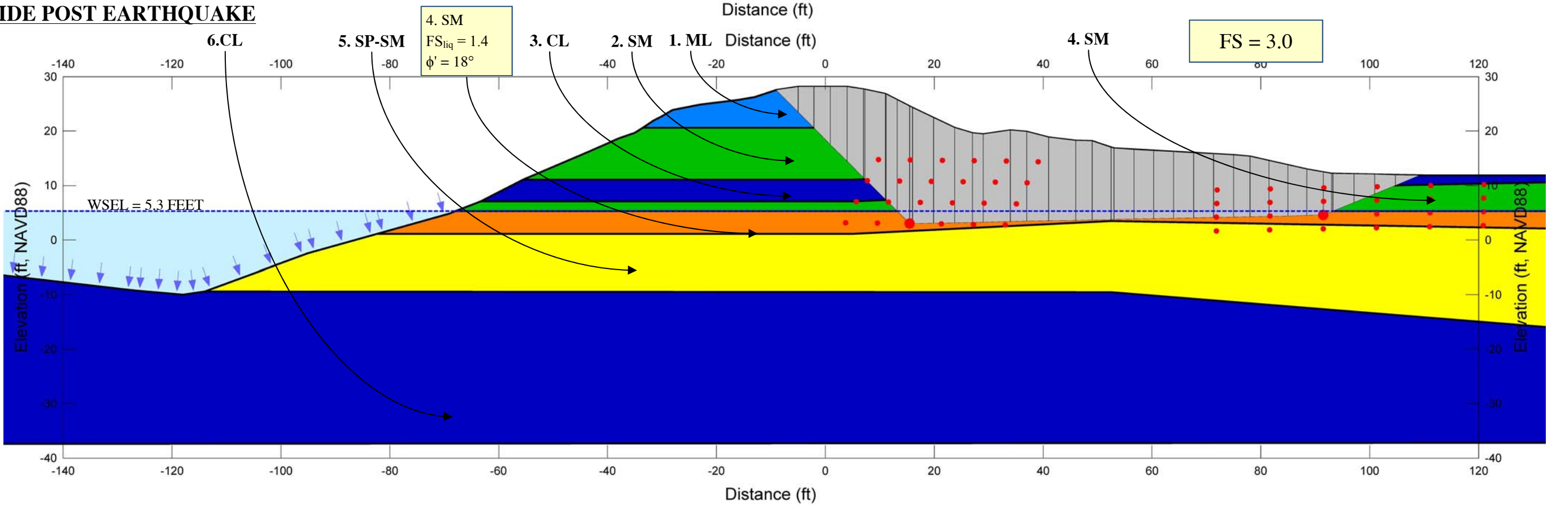
FIGURE NO.  
**E-29-G**

COPYRIGHT © 2014 BY ENGEO INCORPORATED. THIS DOCUMENT MAY NOT BE REPRODUCED IN WHOLE OR IN PART BY ANY MEANS WHATSOEVER, NOR MAY IT BE QUOTED OR EXCERPTED WITHOUT THE EXPRESS WRITTEN CONSENT OF ENGEO INCORPORATED.

### WATERSIDE POST EARTHQUAKE (NON-CIRCULAR FAILURE)



### LANDSIDE POST EARTHQUAKE



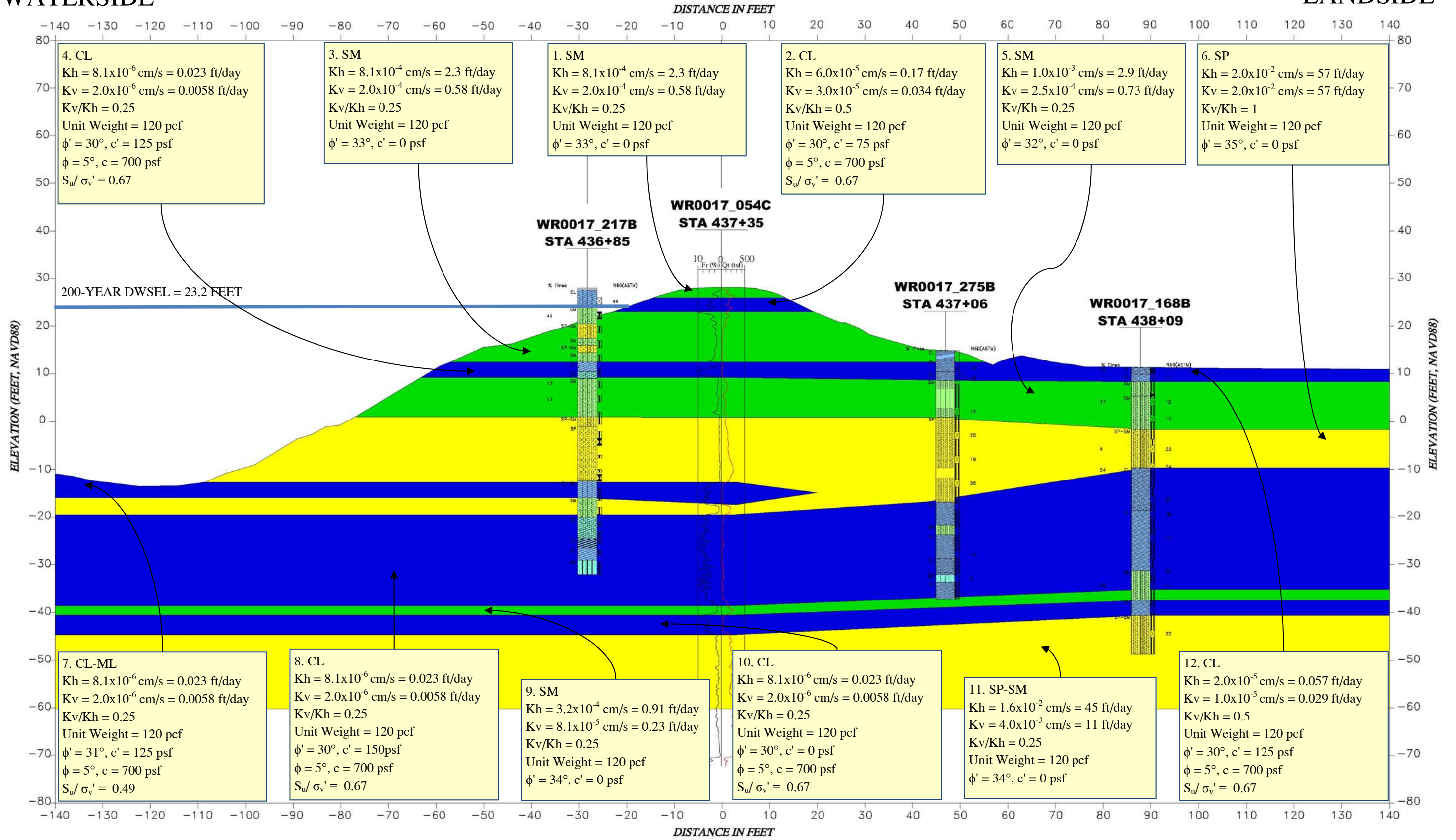
SEISMIC SLOPE STABILITY ANALYSIS  
 REACH H1B - STA 416+86  
 RECLAMATION DISTRICT NO. 17  
 SAN JOAQUIN COUNTY, CALIFORNIA

PROJECT NO.: 5747.005.000	
SCALE: NO SCALE	
DRAWN BY: BA	CHECKED BY: CC

FIGURE NO.  
**E-29-H**

# WATERSIDE

# LANDSIDE

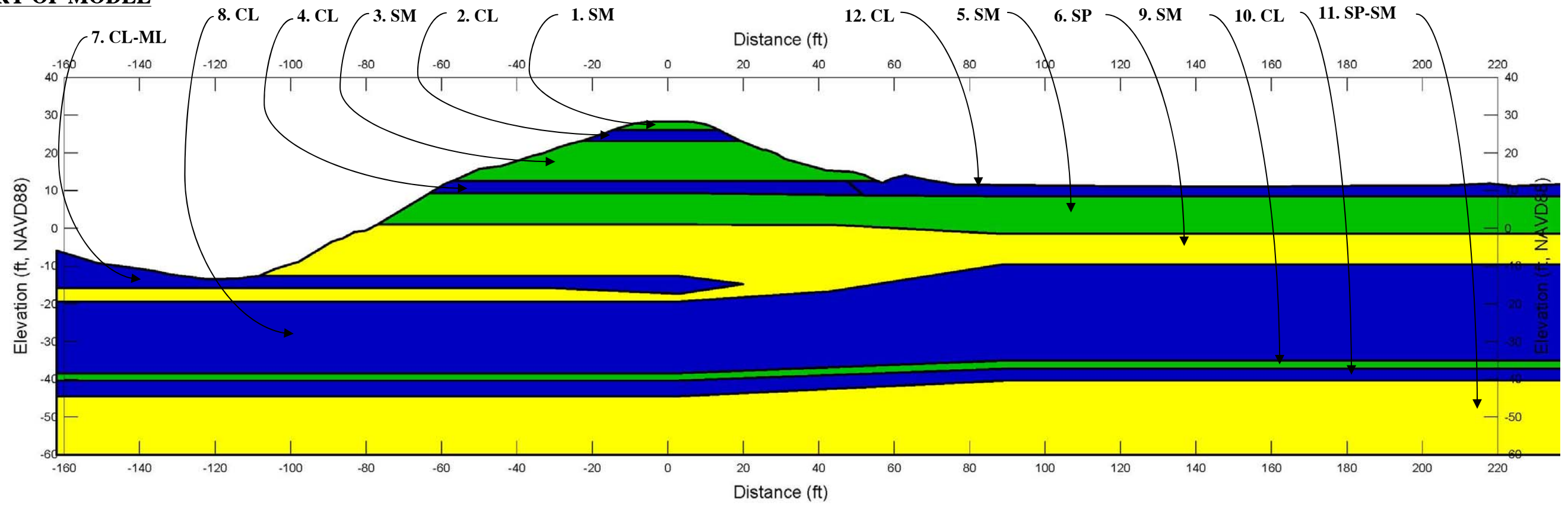


COPYRIGHT © 2014 BY ENGEO INCORPORATED. THIS DOCUMENT MAY NOT BE REPRODUCED IN WHOLE OR IN PART BY ANY MEANS WHATSOEVER, NOR MAY IT BE QUOTED OR EXCERPTED WITHOUT THE EXPRESS WRITTEN CONSENT OF ENGEO INCORPORATED.

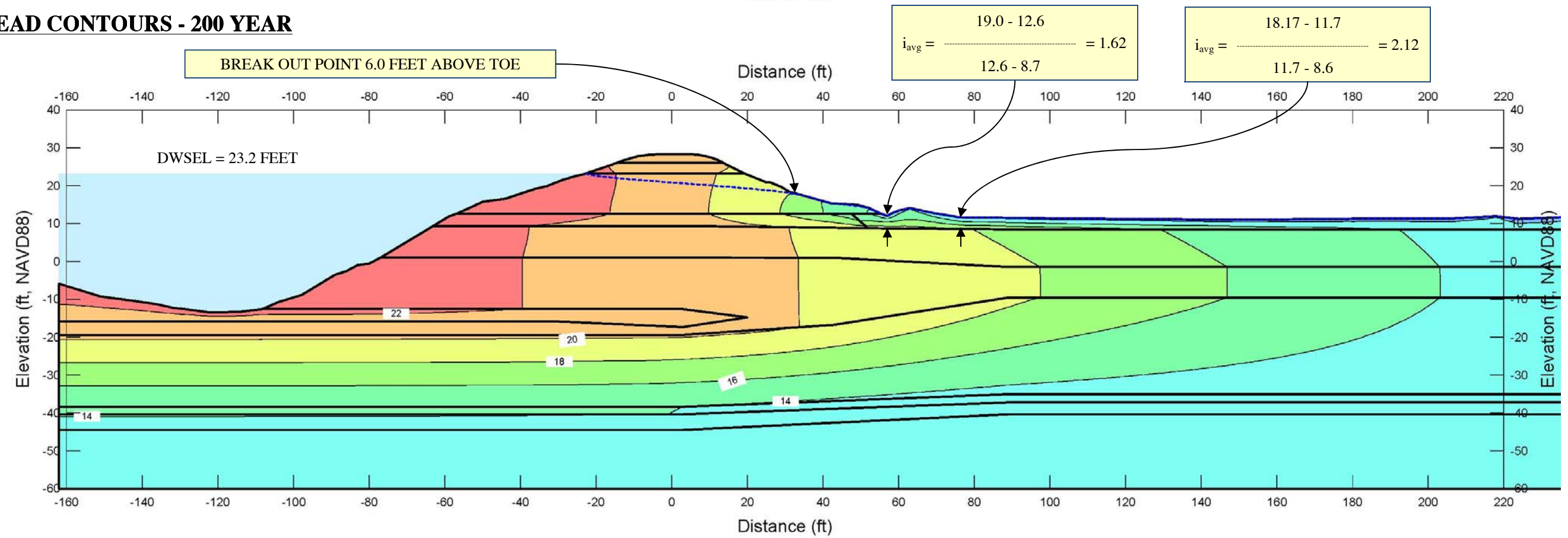
<p>Expect Excellence</p>	<b>CROSS SECTION &amp; MATERIAL PARAMETERS</b> REACH H2 - STA 437+26 RECLAMATION DISTRICT NO. 17 SAN JOAQUIN COUNTY, CALIFORNIA		PROJECT NO.: 5747.005.000	FIGURE NO.  <b>E-30-A</b>
			SCALE: NO SCALE	
			DRAWN BY: MH    CHECKED BY: AL	

COPYRIGHT © 2014 BY ENGEO INCORPORATED. THIS DOCUMENT MAY NOT BE REPRODUCED IN WHOLE OR IN PART BY ANY MEANS WHATSOEVER, NOR MAY IT BE QUOTED OR EXCERPTED WITHOUT THE EXPRESS WRITTEN CONSENT OF ENGEO INCORPORATED.

### GEOMETRY OF MODEL



### TOTAL HEAD CONTOURS - 200 YEAR



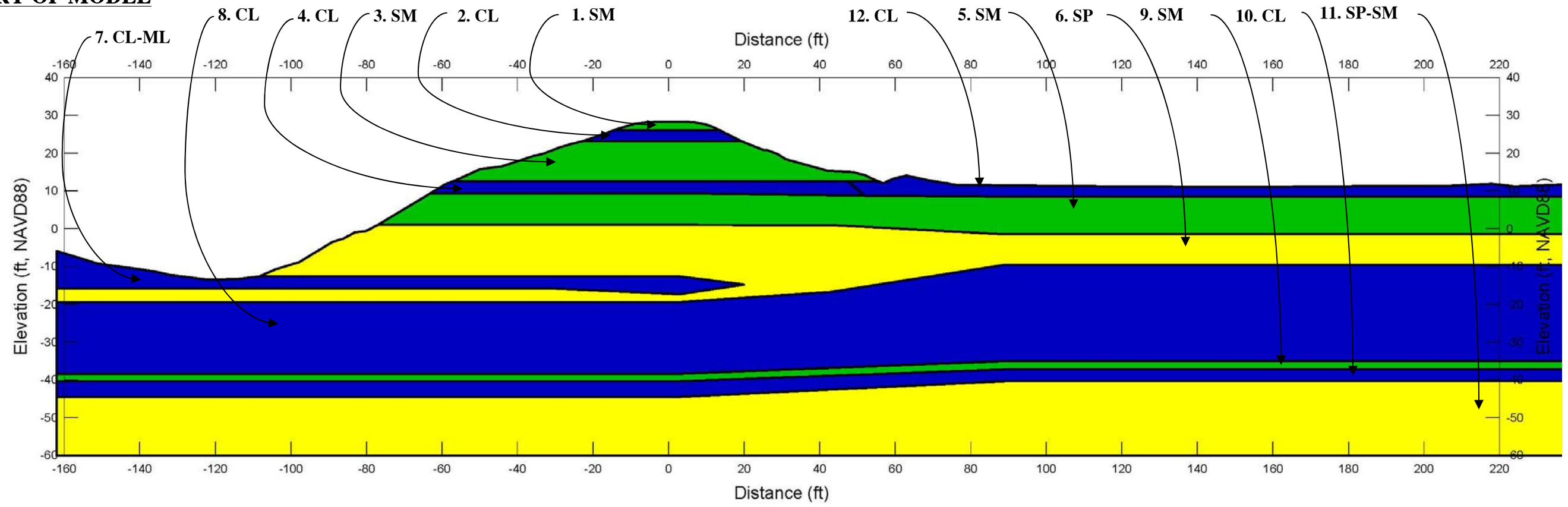
SEEPAGE ANALYSIS  
 REACH H2 - STA 437+26  
 RECLAMATION DISTRICT NO. 17  
 SAN JOAQUIN COUNTY, CALIFORNIA

PROJECT NO.: 5747.005.000	
SCALE: NO SCALE	
DRAWN BY: MH	CHECKED BY: NS

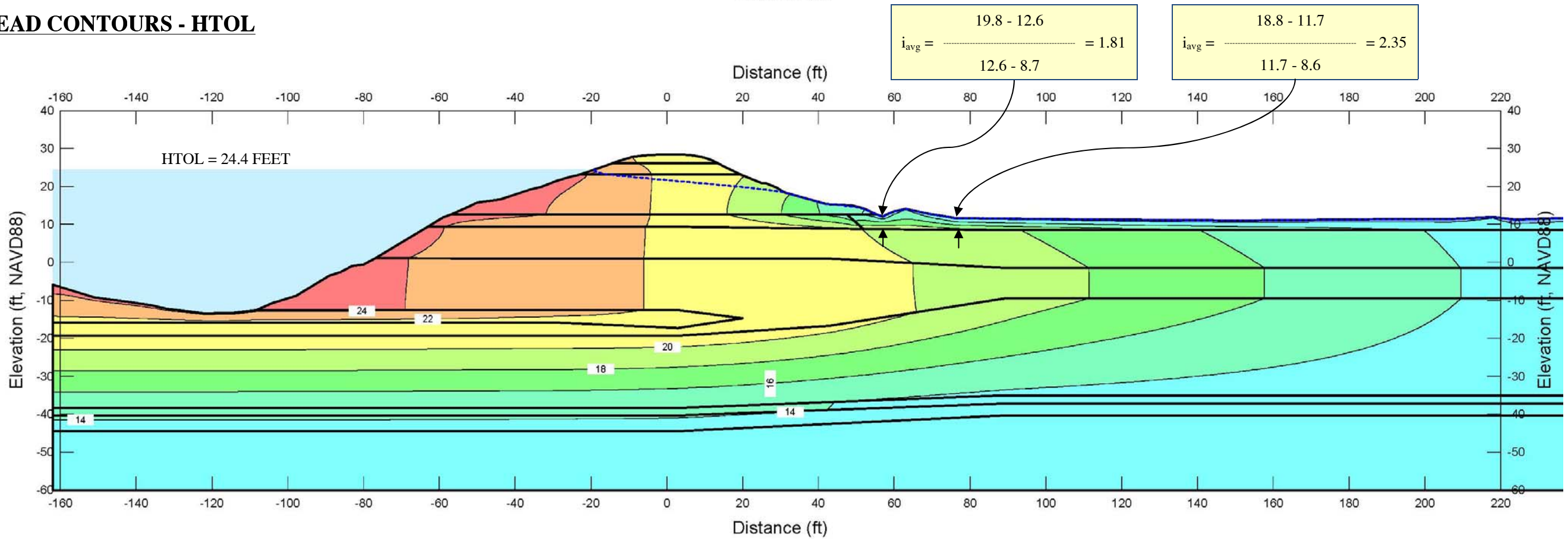
FIGURE NO.  
**E-30-B**

COPYRIGHT © 2014 BY ENGEO INCORPORATED. THIS DOCUMENT MAY NOT BE REPRODUCED IN WHOLE OR IN PART BY ANY MEANS WHATSOEVER, NOR MAY IT BE QUOTED OR EXCERPTED WITHOUT THE EXPRESS WRITTEN CONSENT OF ENGEO INCORPORATED.

### GEOMETRY OF MODEL



### TOTAL HEAD CONTOURS - HTOL



SEEPAGE ANALYSIS  
 REACH H2 - STA 437+26  
 RECLAMATION DISTRICT NO. 17  
 SAN JOAQUIN COUNTY, CALIFORNIA

PROJECT NO.: 5747.005.000	
SCALE: NO SCALE	
DRAWN BY: MH	CHECKED BY: NS

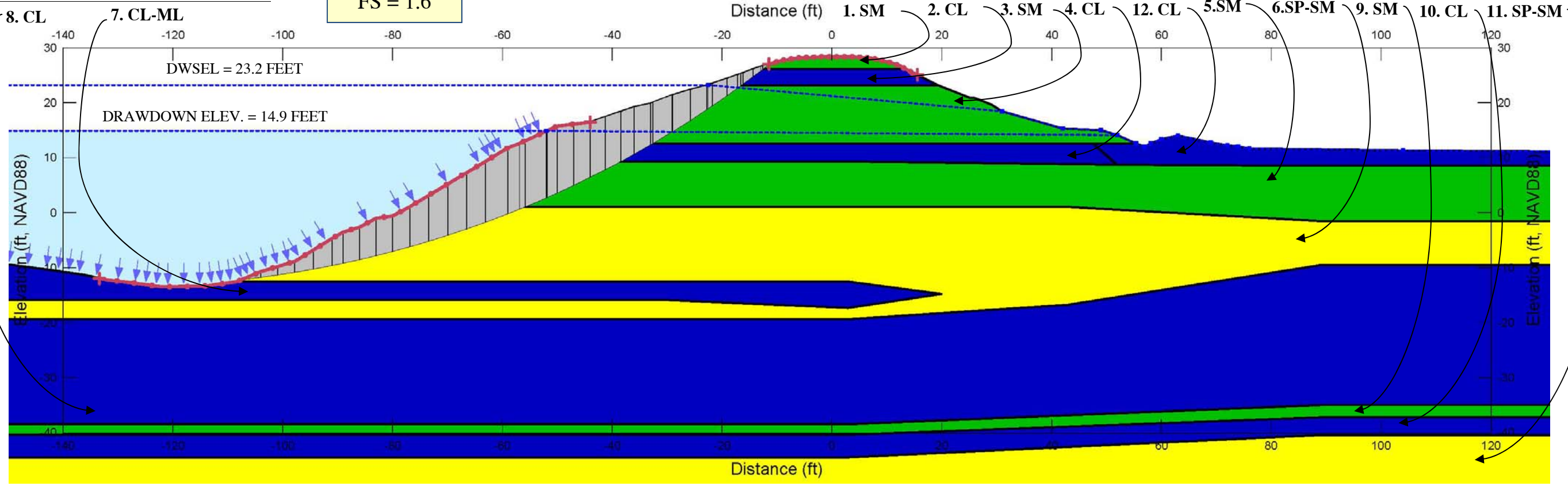
FIGURE NO.  
**E-30-C**



COPYRIGHT © 2014 BY ENGEO INCORPORATED. THIS DOCUMENT MAY NOT BE REPRODUCED IN WHOLE OR IN PART BY ANY MEANS WHATSOEVER, NOR MAY IT BE QUOTED OR EXCERPTED WITHOUT THE EXPRESS WRITTEN CONSENT OF ENGEO INCORPORATED.

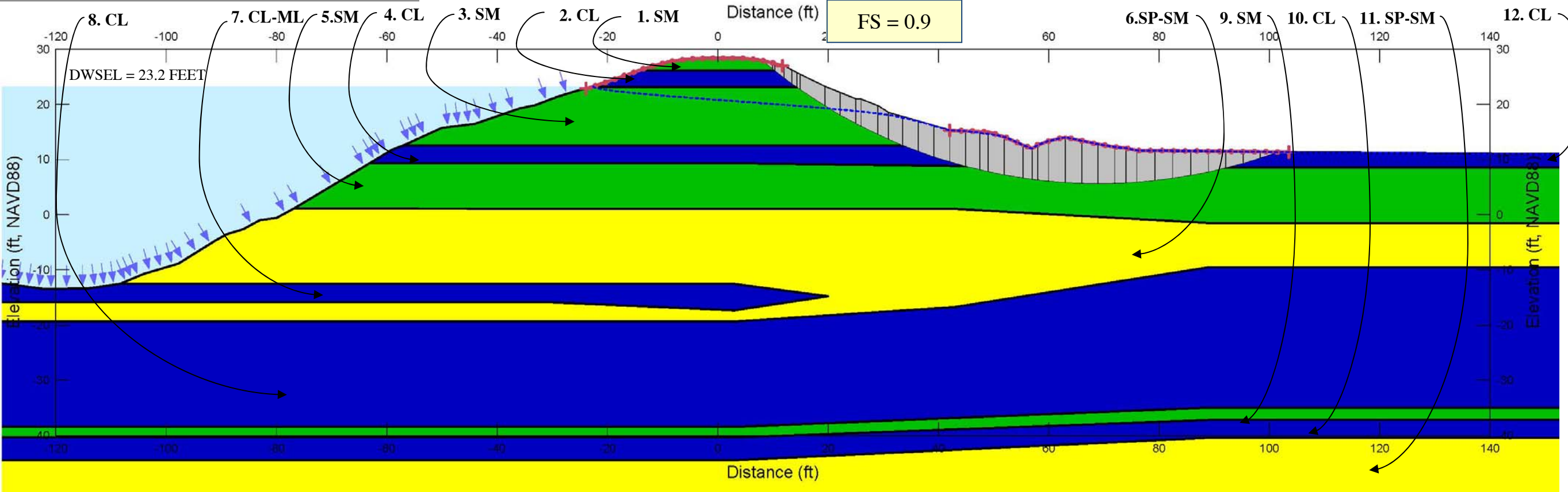
### WATERSIDE RAPID DRAWDOWN

FS = 1.6



### LANDSIDE STEADY STATE SEEPAGE - 200 YEAR

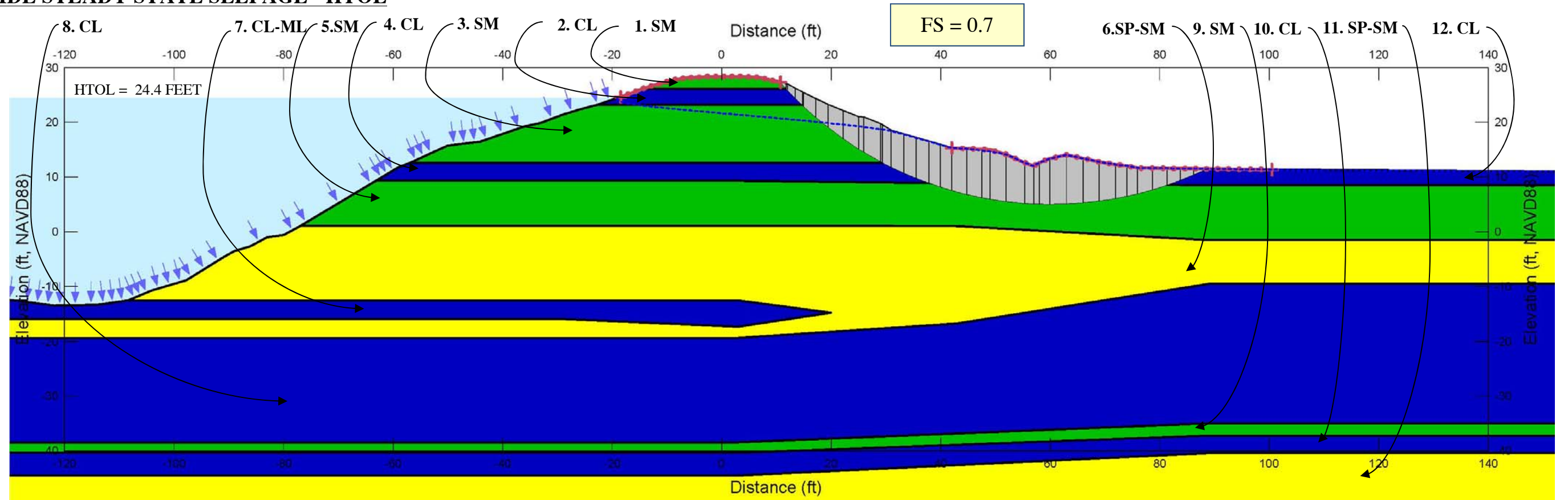
FS = 0.9



	STATIC SLOPE STABILITY ANALYSIS REACH H2 - STA 437+26 RECLAMATION DISTRICT NO. 17 SAN JOAQUIN COUNTY, CALIFORNIA		PROJECT NO.: 5747.005.000	FIGURE NO.  <b>E-30-D</b>
			SCALE: NO SCALE	
			DRAWN BY: MH    CHECKED BY: NS	

COPYRIGHT © 2014 BY ENGEO INCORPORATED. THIS DOCUMENT MAY NOT BE REPRODUCED IN WHOLE OR IN PART BY ANY MEANS WHATSOEVER, NOR MAY IT BE QUOTED OR EXCERPTED WITHOUT THE EXPRESS WRITTEN CONSENT OF ENGEO INCORPORATED.

### LANDSIDE STEADY STATE SEEPAGE - HTOL



STATIC SLOPE STABILITY ANALYSIS  
 REACH H2 - STA 437+26  
 RECLAMATION DISTRICT NO. 17  
 SAN JOAQUIN COUNTY, CALIFORNIA

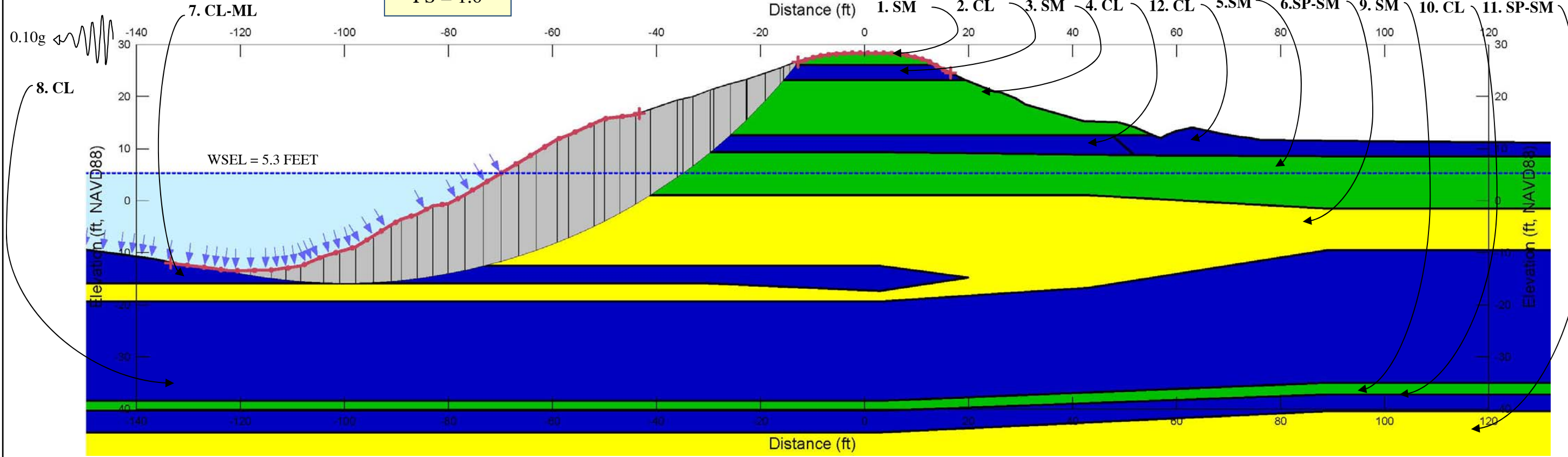
PROJECT NO.: 5747.005.000  
 SCALE: NO SCALE  
 DRAWN BY: MH | CHECKED BY: NS

FIGURE NO.  
**E-30-E**

COPYRIGHT © 2014 BY ENGEO INCORPORATED. THIS DOCUMENT MAY NOT BE REPRODUCED IN WHOLE OR IN PART BY ANY MEANS WHATSOEVER, NOR MAY IT BE QUOTED OR EXCERPTED WITHOUT THE EXPRESS WRITTEN CONSENT OF ENGEO INCORPORATED.

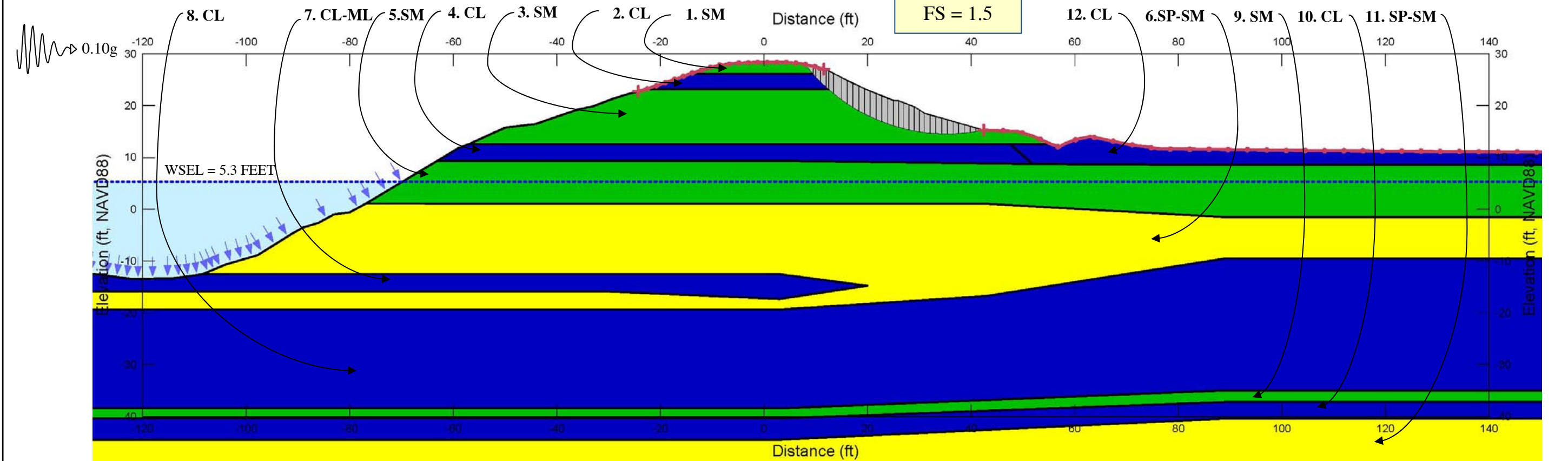
### WATERSIDE SEISMIC

FS = 1.0



### LANDSIDE SEISMIC

FS = 1.5



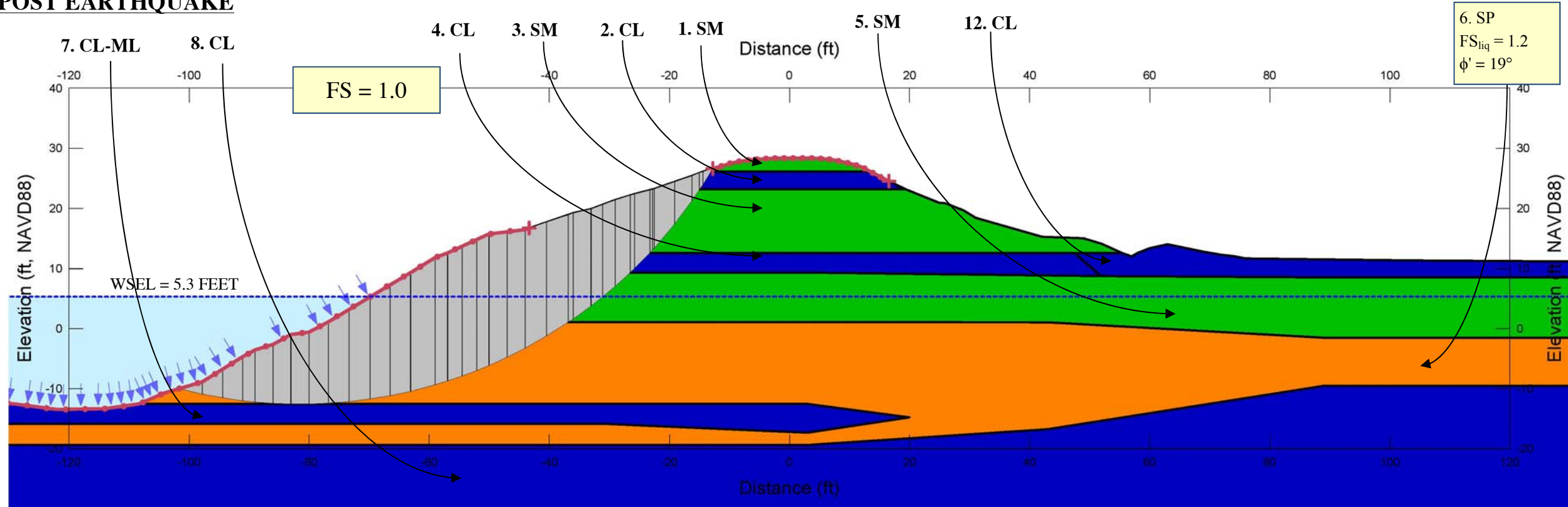
SEISMIC SLOPE STABILITY ANALYSIS  
REACH H2 - STA 437+26  
RECLAMATION DISTRICT NO. 17  
SAN JOAQUIN COUNTY, CALIFORNIA

PROJECT NO.: 5747.005.000	
SCALE:	NO SCALE
DRAWN BY:	MH
CHECKED BY:	NS

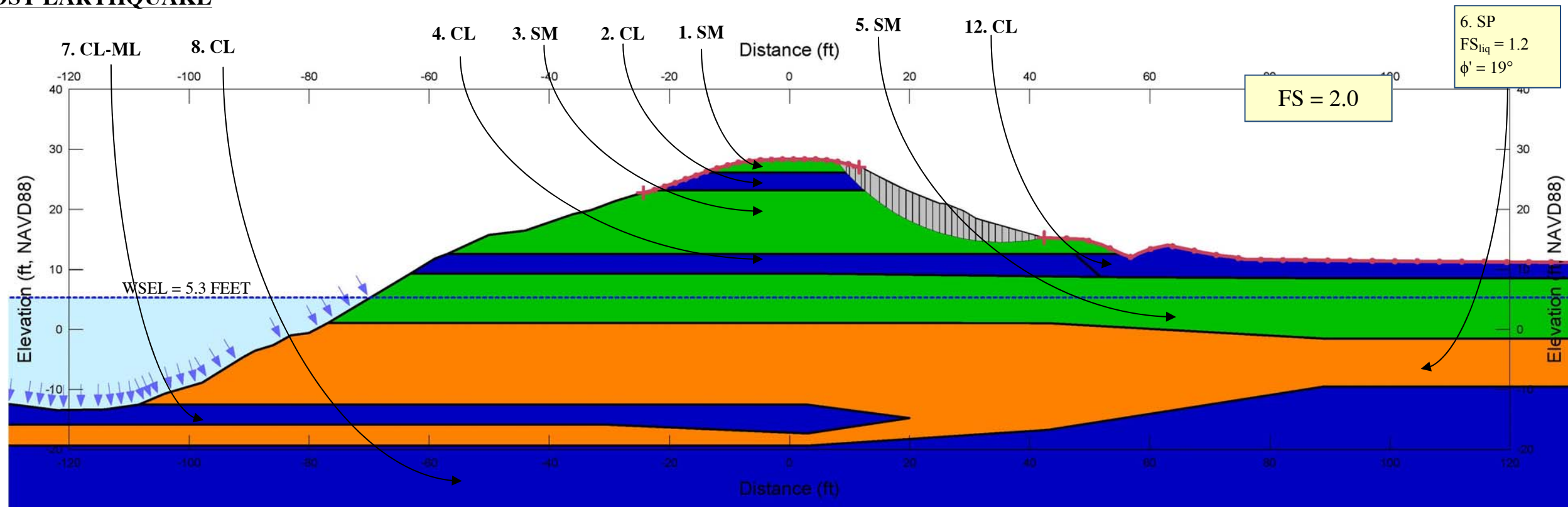
FIGURE NO.  
E-30-F


COPYRIGHT © 2014 BY ENGEO INCORPORATED. THIS DOCUMENT MAY NOT BE REPRODUCED IN WHOLE OR IN PART BY ANY MEANS WHATSOEVER, NOR MAY IT BE QUOTED OR EXCERPTED WITHOUT THE EXPRESS WRITTEN CONSENT OF ENGEO INCORPORATED.

### WATERSIDE POST EARTHQUAKE



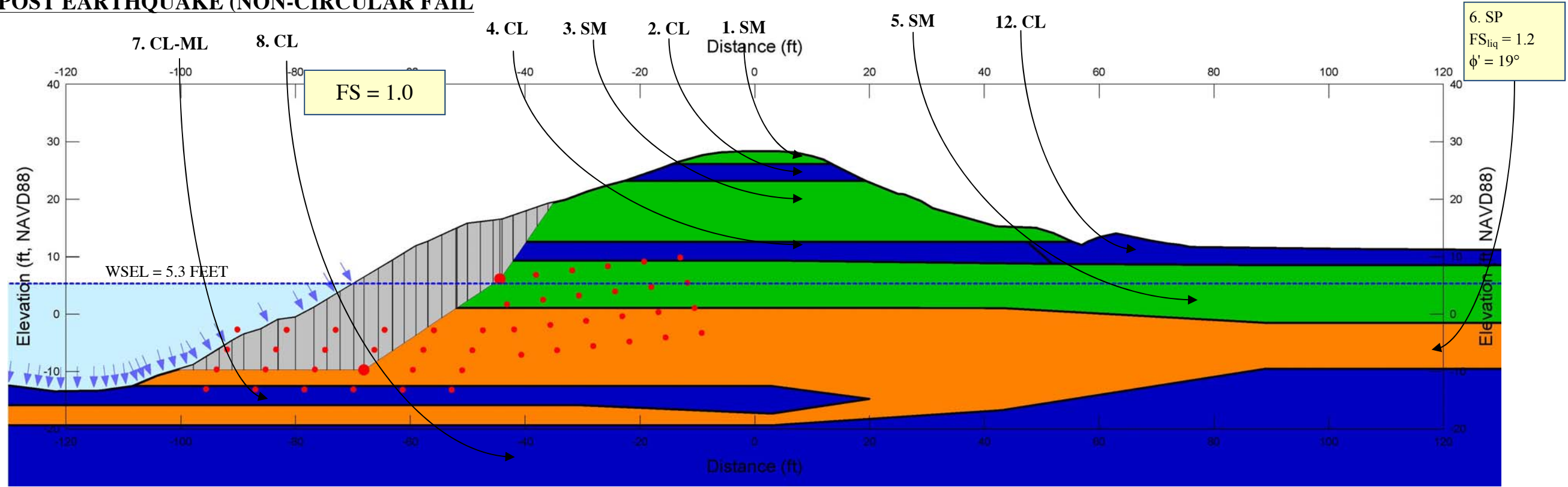
### LANDSIDE POST EARTHQUAKE



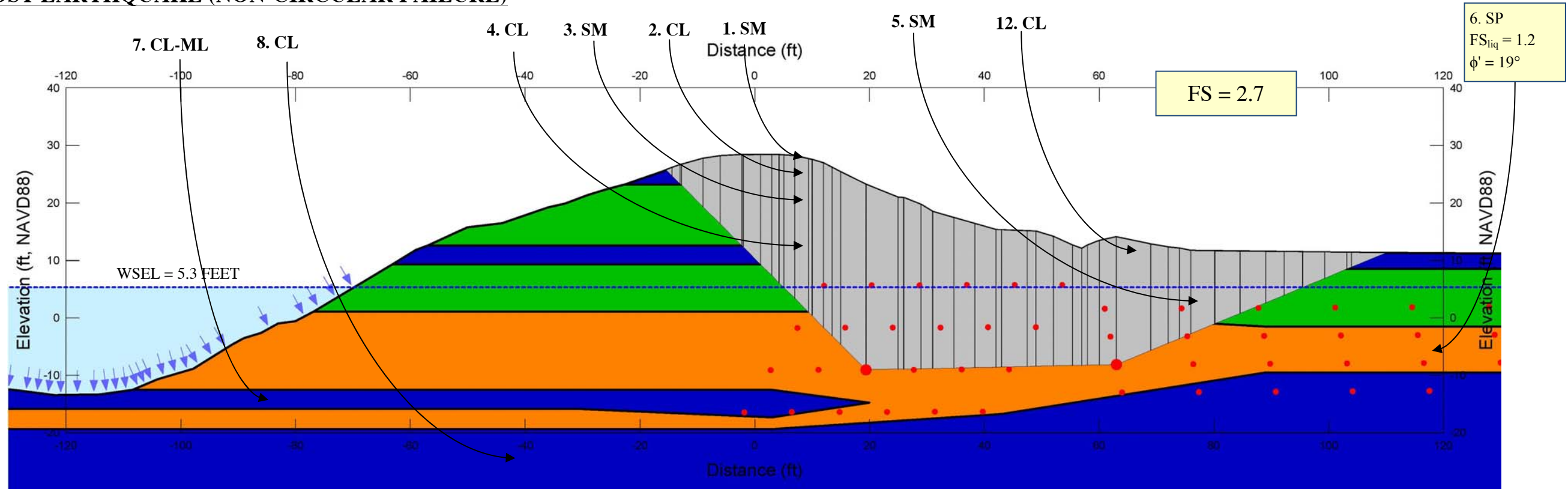
 Expect Excellence	SEISMIC SLOPE STABILITY ANALYSIS REACH H2 - STA 437+26 RECLAMATION DISTRICT NO. 17 SAN JOAQUIN COUNTY, CALIFORNIA		PROJECT NO.: 5747.005.000	FIGURE NO.  <b>E-30-G</b>
			SCALE: NO SCALE	
			DRAWN BY: MH    CHECKED BY: CC	

COPYRIGHT © 2014 BY ENGEO INCORPORATED. THIS DOCUMENT MAY NOT BE REPRODUCED IN WHOLE OR IN PART BY ANY MEANS WHATSOEVER, NOR MAY IT BE QUOTED OR EXCERPTED WITHOUT THE EXPRESS WRITTEN CONSENT OF ENGEO INCORPORATED.

**WATERSIDE POST EARTHQUAKE (NON-CIRCULAR FAIL)**



**LANDSIDE POST EARTHQUAKE (NON-CIRCULAR FAILURE)**



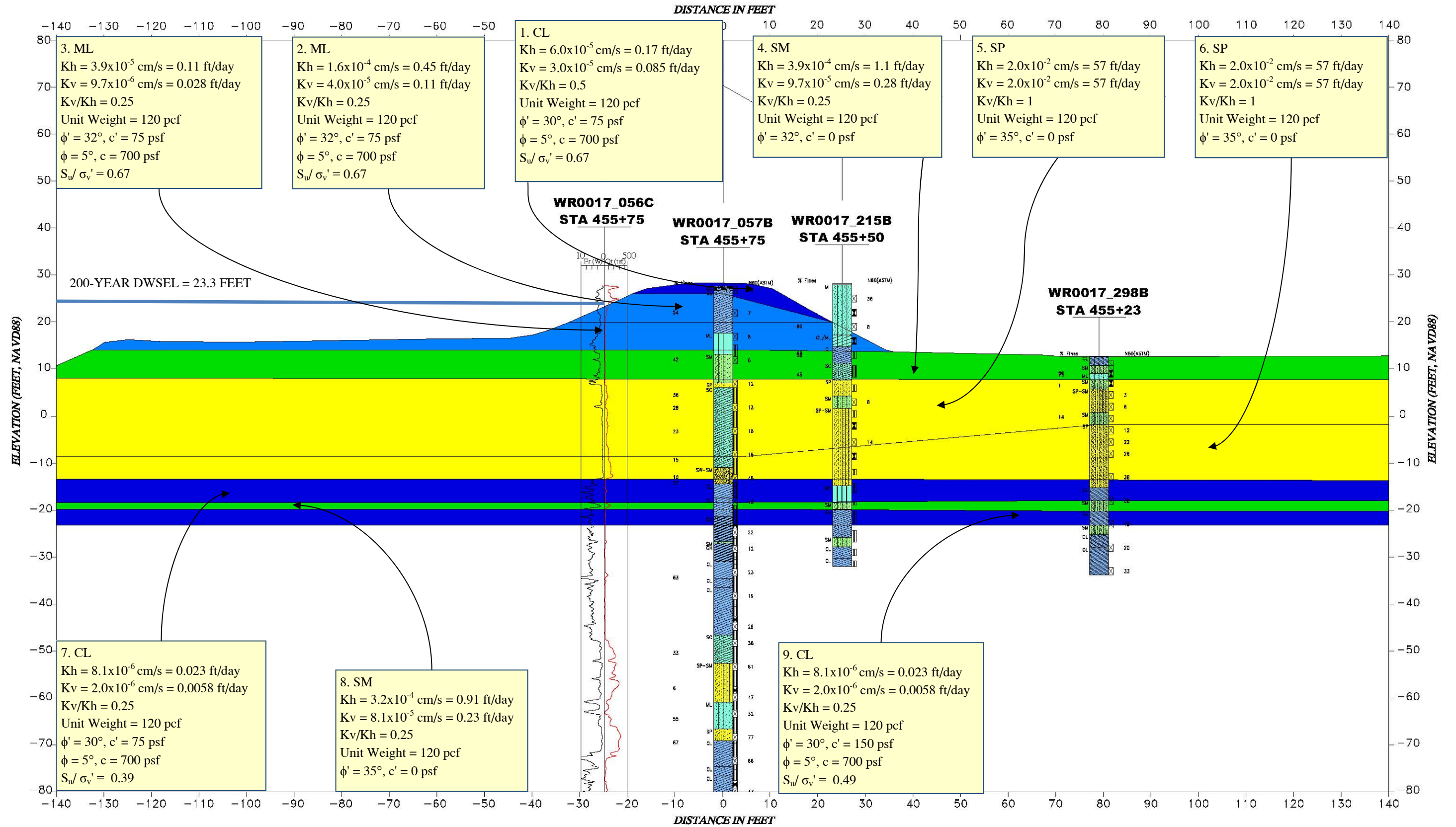
SEISMIC SLOPE STABILITY ANALYSIS  
 REACH H2 - STA 437+26  
 RECLAMATION DISTRICT NO. 17  
 SAN JOAQUIN COUNTY, CALIFORNIA

PROJECT NO.: 5747.005.000	
SCALE:	NO SCALE
DRAWN BY:	MH
CHECKED BY:	CC

FIGURE NO.  
**E-30-H**

# WATERSIDE

# LANDSIDE



COPYRIGHT © 2014 BY ENGEO INCORPORATED. THIS DOCUMENT MAY NOT BE REPRODUCED IN WHOLE OR IN PART BY ANY MEANS WHATSOEVER, NOR MAY IT BE QUOTED OR EXCERPTED WITHOUT THE EXPRESS WRITTEN CONSENT OF ENGEO INCORPORATED.

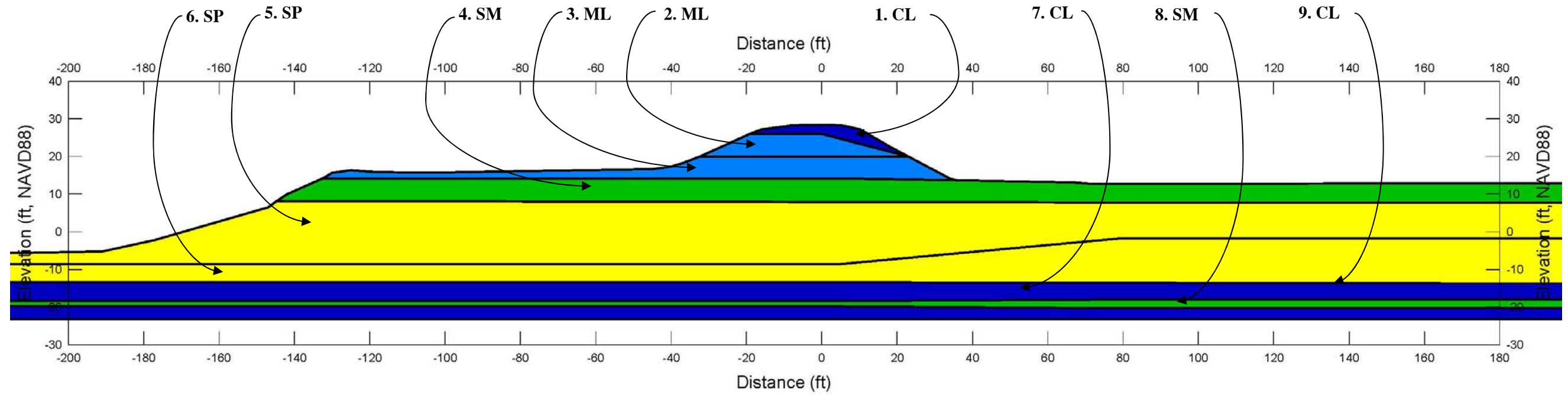


CROSS SECTION & MATERIAL PARAMETERS  
 REACH H3 - STA 455+55  
 RECLAMATION DISTRICT NO. 17  
 SAN JOAQUIN COUNTY, CALIFORNIA

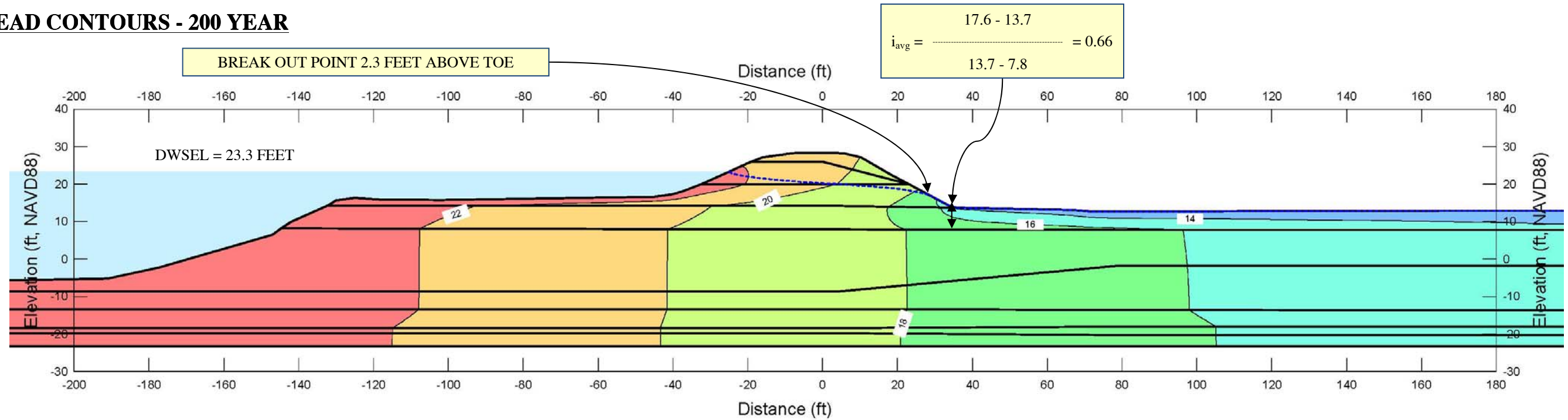
PROJECT NO.: 5747.005.000	
SCALE: NO SCALE	
DRAWN BY: MH	CHECKED BY: AL

FIGURE NO.  
**E-31-A**

**GEOMETRY OF MODEL**



**TOTAL HEAD CONTOURS - 200 YEAR**



COPYRIGHT © 2014 BY ENGEO INCORPORATED. THIS DOCUMENT MAY NOT BE REPRODUCED IN WHOLE OR IN PART BY ANY MEANS WHATSOEVER, NOR MAY IT BE QUOTED OR EXCERPTED WITHOUT THE EXPRESS WRITTEN CONSENT OF ENGEO INCORPORATED.



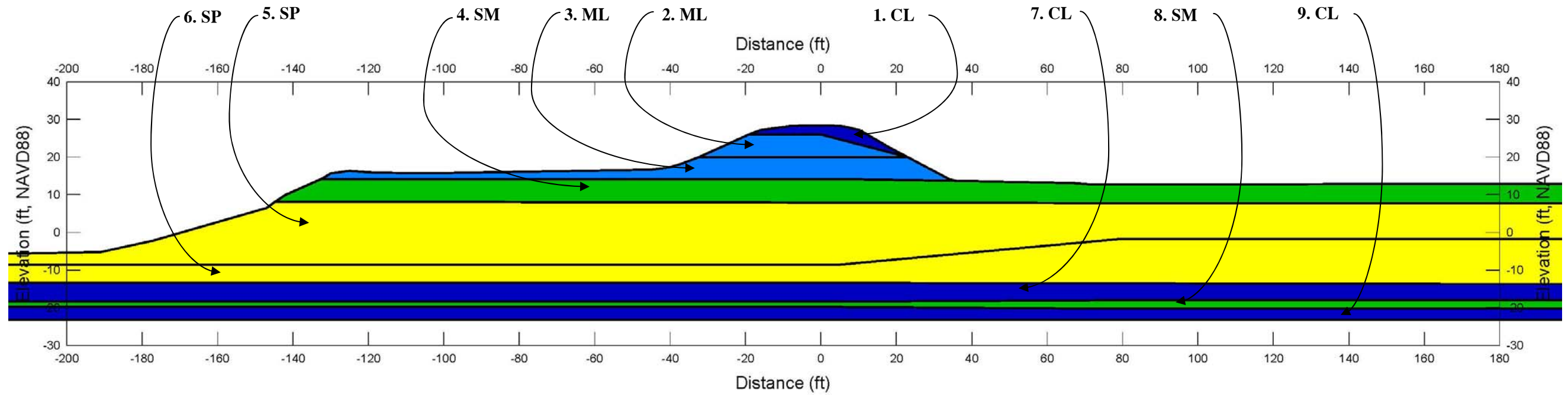
SEEPAGE ANALYSIS  
REACH H3 - STA 455+55  
RECLAMATION DISTRICT NO. 17  
SAN JOAQUIN COUNTY, CALIFORNIA

PROJECT NO.: 5747.005.000	
SCALE: NO SCALE	
DRAWN BY: MH	CHECKED BY: NS

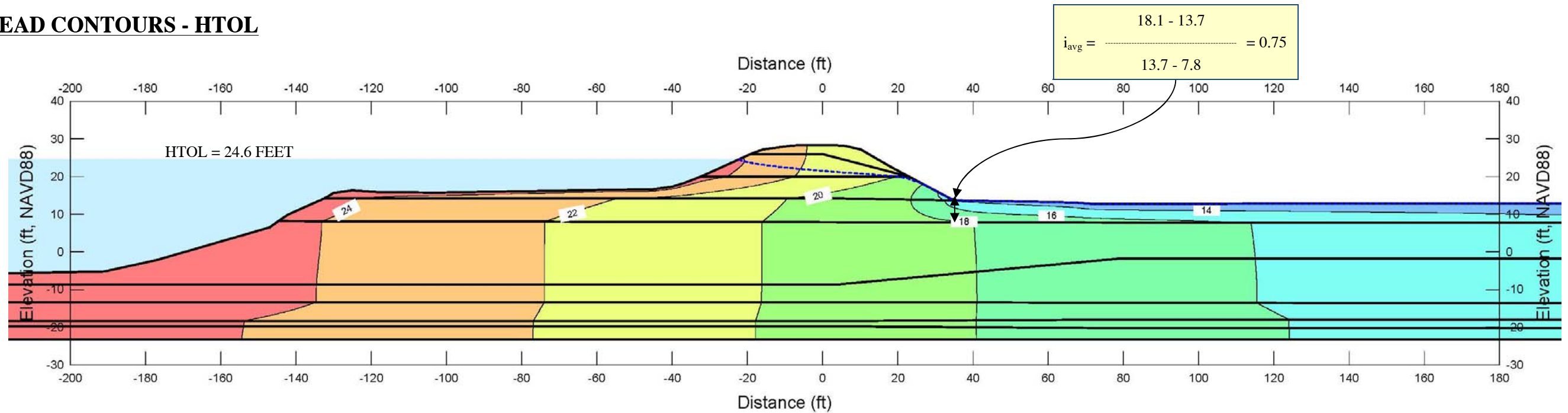
FIGURE NO.  
**E-31-B**

COPYRIGHT © 2014 BY ENGEO INCORPORATED. THIS DOCUMENT MAY NOT BE REPRODUCED IN WHOLE OR IN PART BY ANY MEANS WHATSOEVER WITHOUT THE EXPRESS WRITTEN CONSENT OF ENGEO INCORPORATED.

### GEOMETRY OF MODEL



### TOTAL HEAD CONTOURS - HTOL

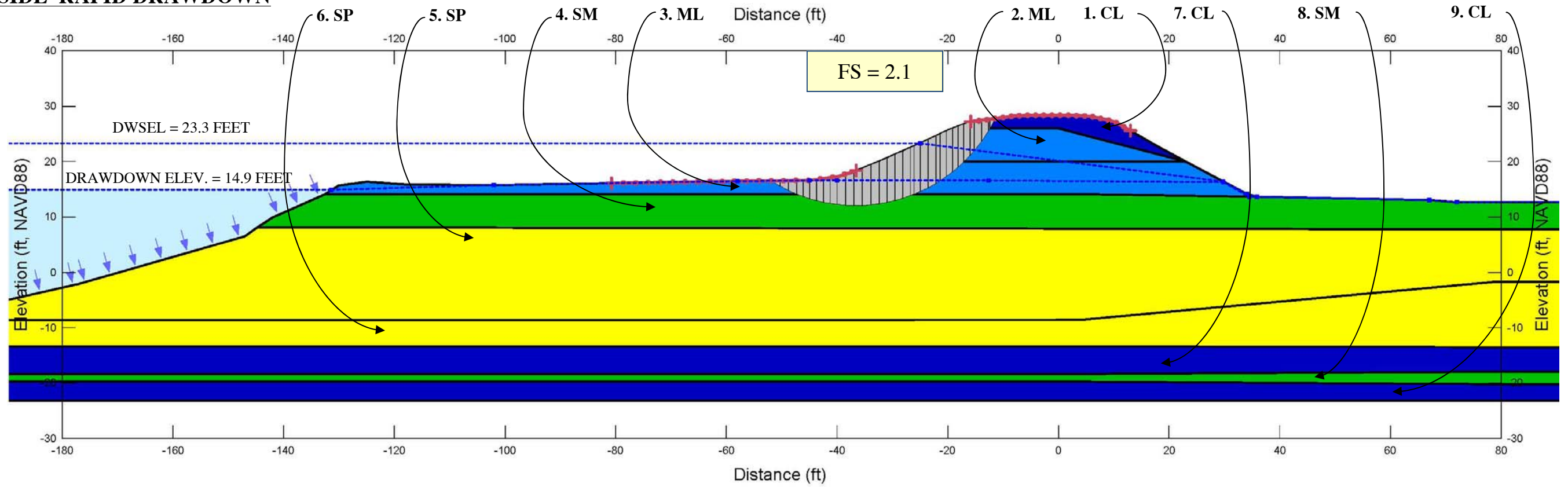


	SEEPAGE ANALYSIS REACH H3 - STA 455+55 RECLAMATION DISTRICT NO. 17 SAN JOAQUIN COUNTY, CALIFORNIA		PROJECT NO.: 5747.005.000	FIGURE NO.
			SCALE: NO SCALE	E-31-C
			DRAWN BY: MH	

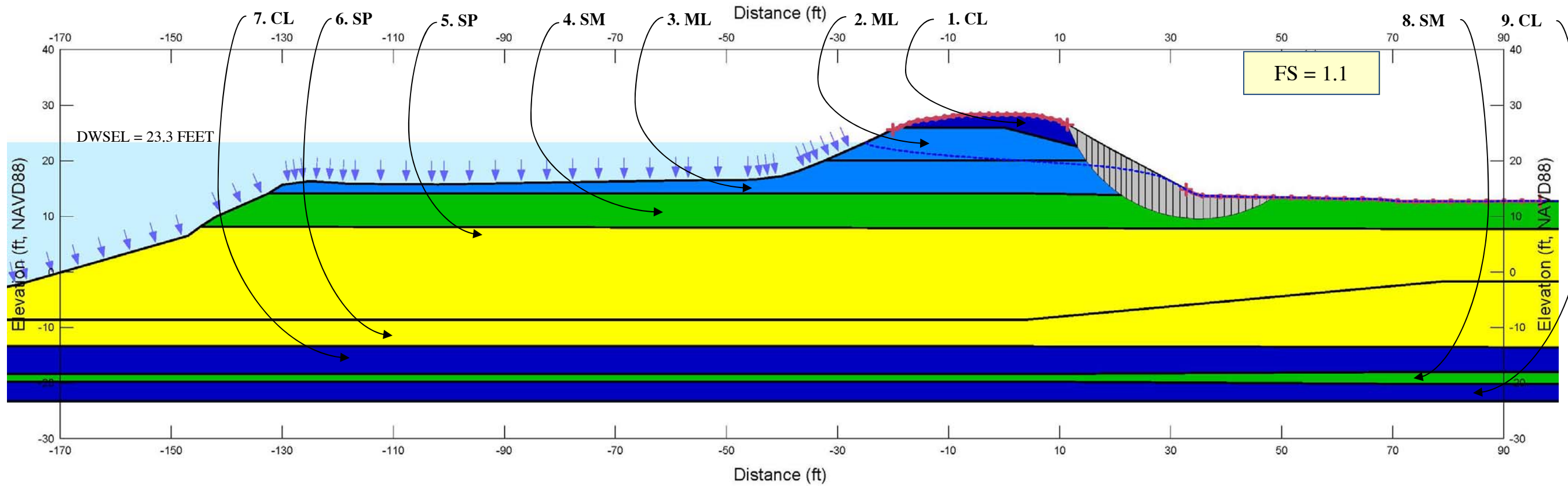


COPYRIGHT © 2014 BY ENGEO INCORPORATED. THIS DOCUMENT MAY NOT BE REPRODUCED IN WHOLE OR IN PART BY ANY MEANS WHATSOEVER, NOR MAY IT BE QUOTED OR EXCERPTED WITHOUT THE EXPRESS WRITTEN CONSENT OF ENGEO INCORPORATED.

### WATERSIDE RAPID DRAWDOWN



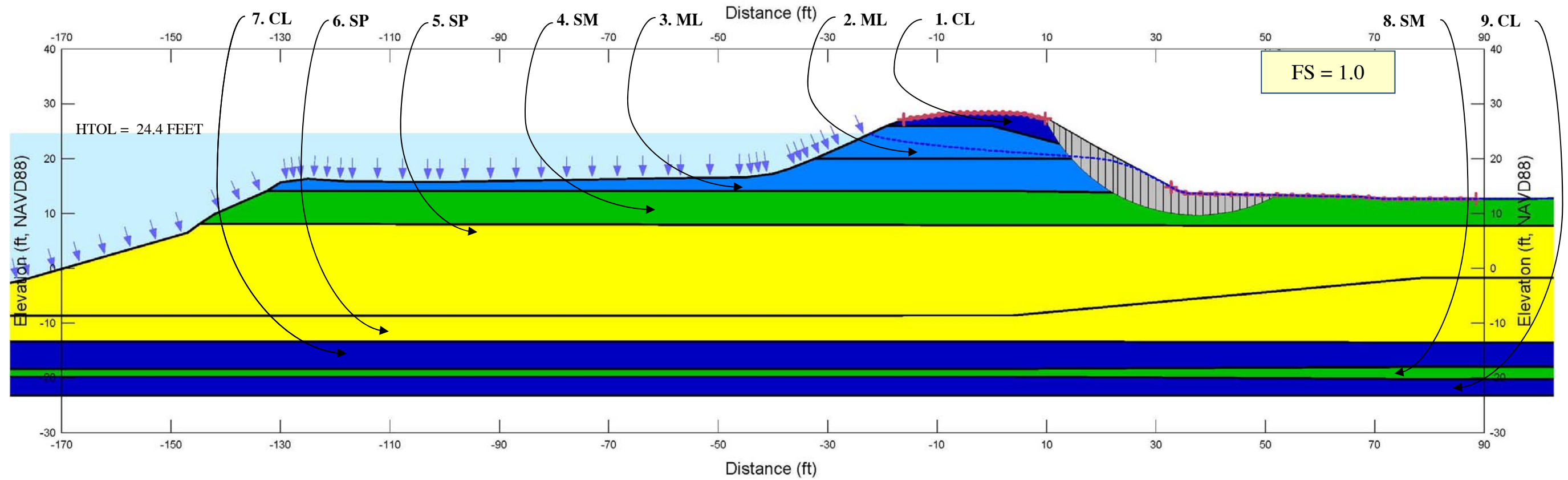
### LANDSIDE STEADY STATE SEEPAGE - 200 YEAR



	STATIC SLOPE STABILITY ANALYSIS REACH H3 - STA 455+55 RECLAMATION DISTRICT NO. 17 SAN JOAQUIN COUNTY, CALIFORNIA		PROJECT NO.: 5747.005.000	FIGURE NO.  <b>E-31-D</b>
			SCALE: NO SCALE	
			DRAWN BY: MH    CHECKED BY: NS	

COPYRIGHT © 2014 BY ENGEO INCORPORATED. THIS DOCUMENT MAY NOT BE REPRODUCED IN WHOLE OR IN PART BY ANY MEANS WHATSOEVER WITHOUT THE EXPRESS WRITTEN CONSENT OF ENGEO INCORPORATED.

## LANDSIDE STEADY STATE SEEPAGE - HTOL



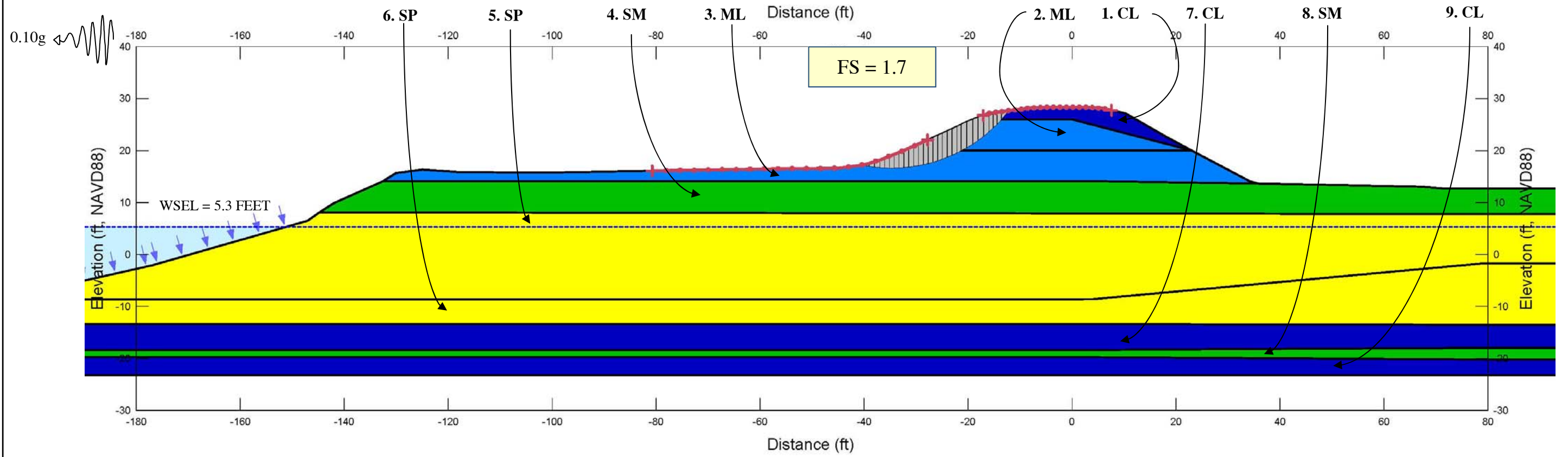
STATIC SLOPE STABILITY ANALYSIS  
 REACH H3 - STA 455+55  
 RECLAMATION DISTRICT NO. 17  
 SAN JOAQUIN COUNTY, CALIFORNIA

PROJECT NO.: 5747.005.000	
SCALE:	NO SCALE
DRAWN BY:	MH
CHECKED BY:	NS

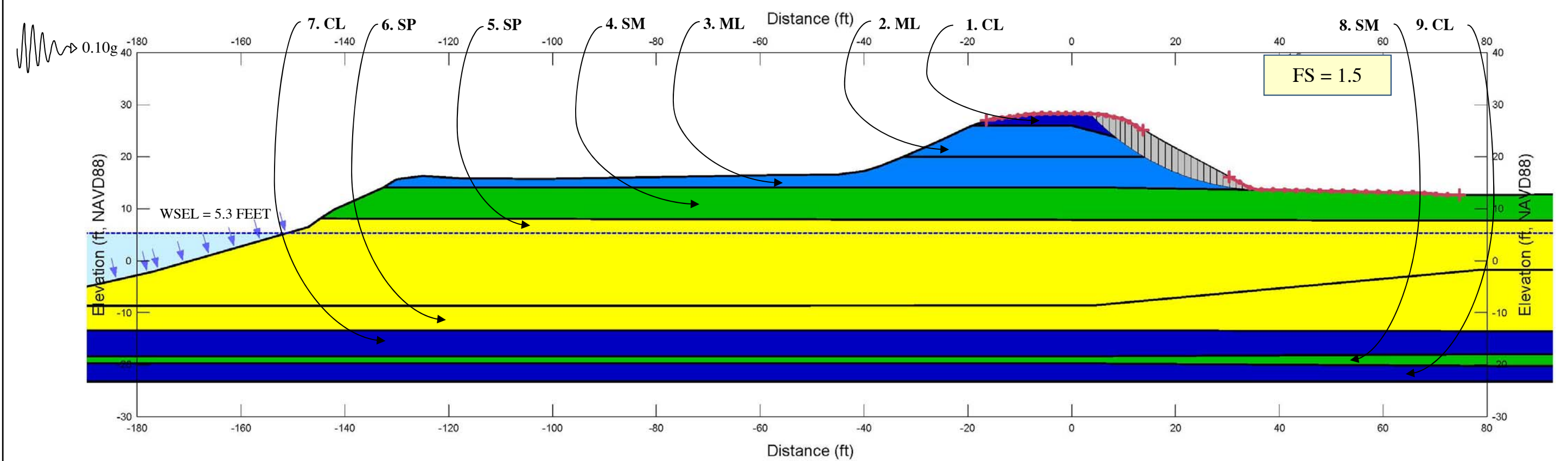
FIGURE NO.  
**E-31-E**

COPYRIGHT © 2014 BY ENGEO INCORPORATED. THIS DOCUMENT MAY NOT BE REPRODUCED IN WHOLE OR IN PART BY ANY MEANS WHATSOEVER, NOR MAY IT BE QUOTED OR EXCERPTED WITHOUT THE EXPRESS WRITTEN CONSENT OF ENGEO INCORPORATED.

### WATERSIDE SEISMIC



### LANDSIDE SEISMIC



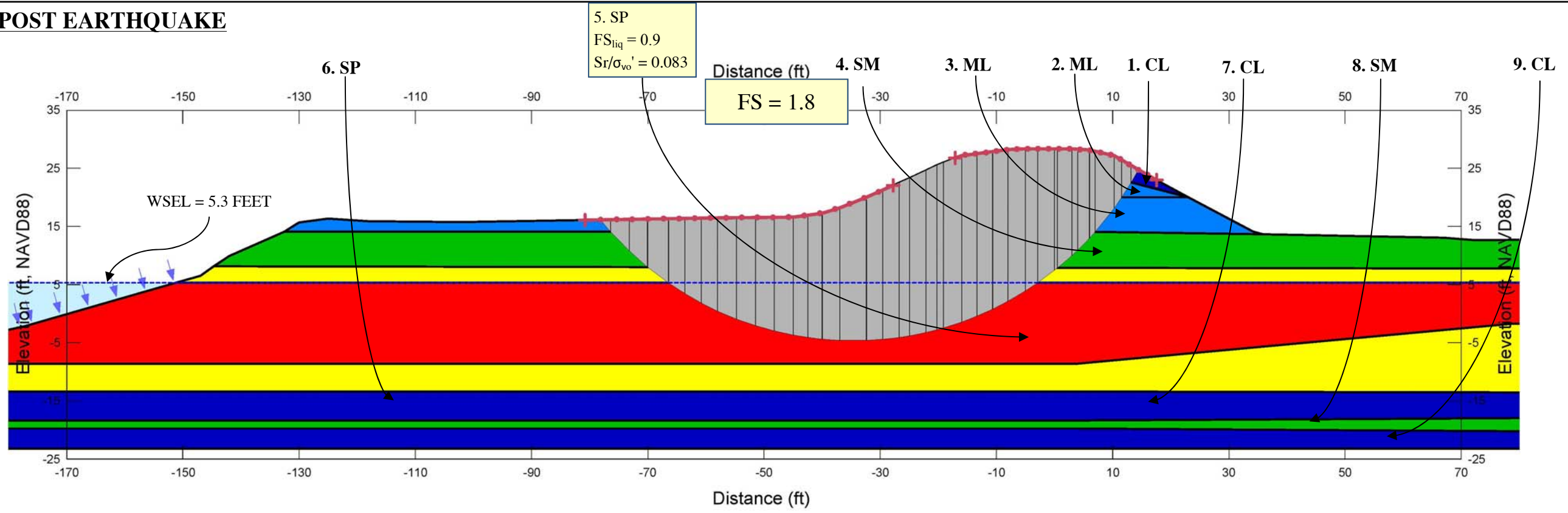
SEISMIC SLOPE STABILITY ANALYSIS  
REACH H3 - STA 455+55  
RECLAMATION DISTRICT NO. 17  
SAN JOAQUIN COUNTY, CALIFORNIA

PROJECT NO.: 5747.005.000
SCALE: NO SCALE
DRAWN BY: MH
CHECKED BY: NS

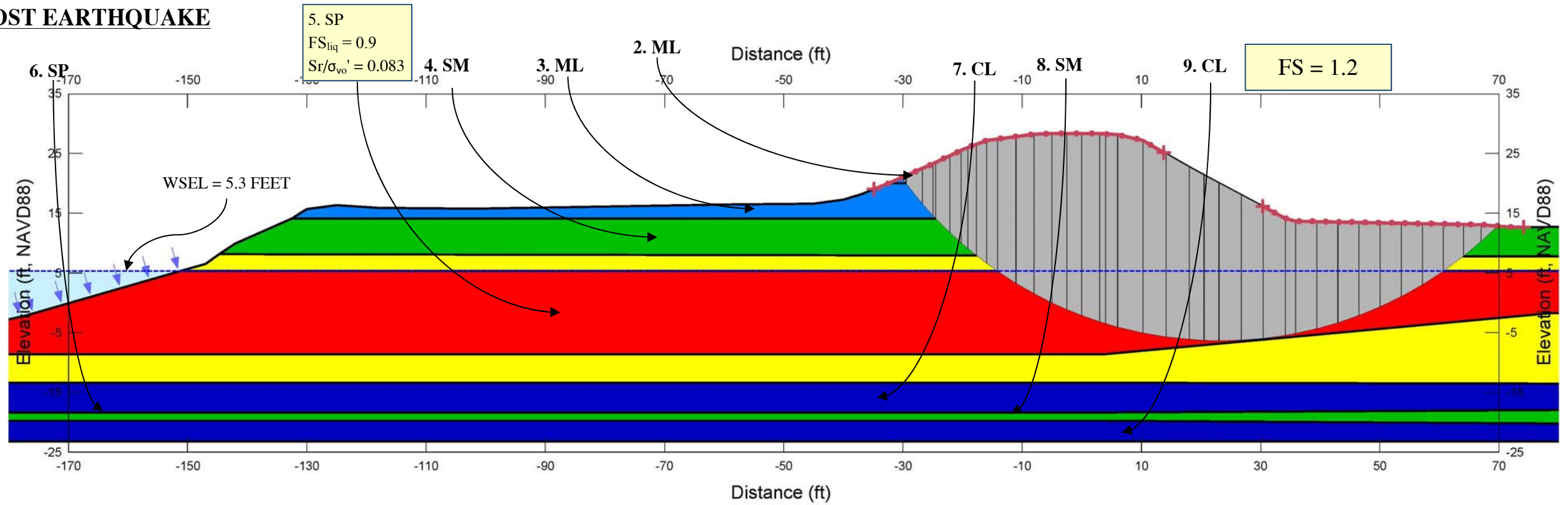
FIGURE NO.  
E-31-F

COPYRIGHT © 2014 BY ENGEO INCORPORATED. THIS DOCUMENT MAY NOT BE REPRODUCED IN WHOLE OR IN PART BY ANY MEANS WHATSOEVER, NOR MAY IT BE QUOTED OR EXCERPTED WITHOUT THE EXPRESS WRITTEN CONSENT OF ENGEO INCORPORATED.

### WATERSIDE POST EARTHQUAKE



### LANDSIDE POST EARTHQUAKE



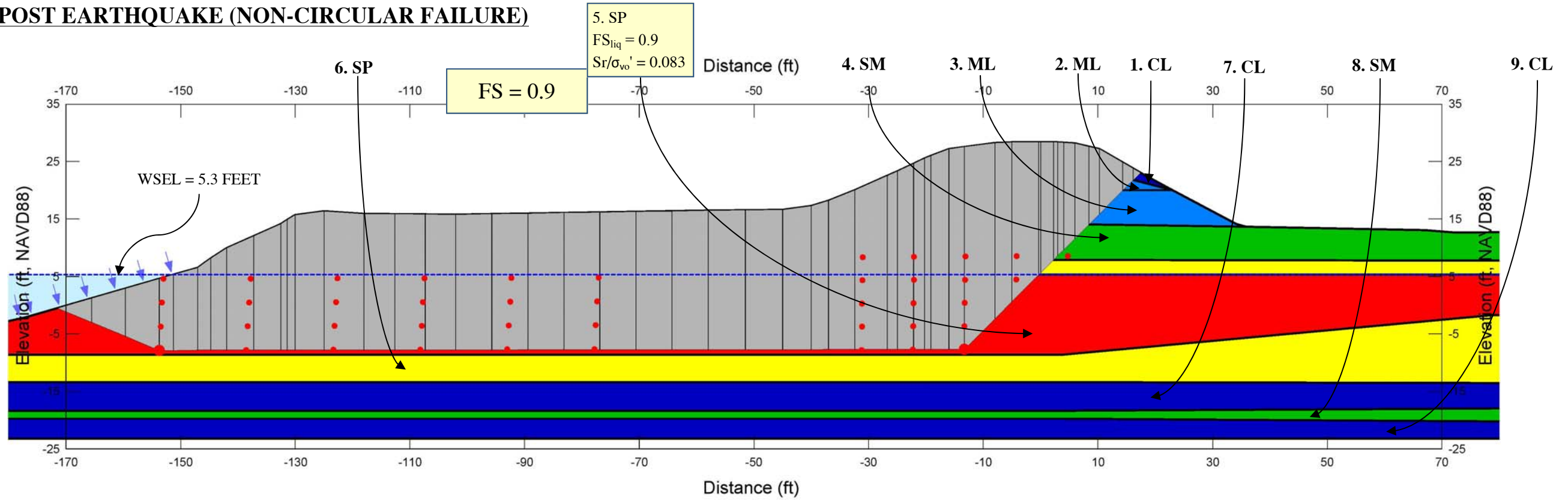
SEISMIC SLOPE STABILITY ANALYSIS  
 REACH H3 - STA 455+55  
 RECLAMATION DISTRICT NO. 17  
 SAN JOAQUIN COUNTY, CALIFORNIA

PROJECT NO.: 5747.005.000	
SCALE:	NO SCALE
DRAWN BY:	ZR
CHECKED BY:	CC

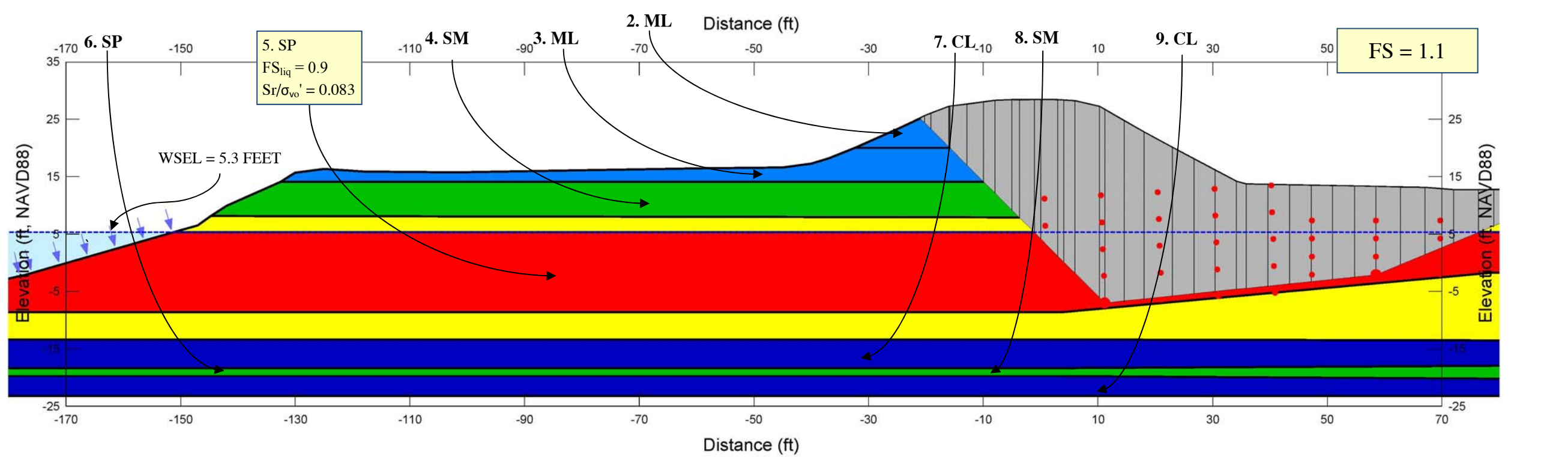
FIGURE NO.  
**E-31-G**

COPYRIGHT © 2014 BY ENGEO INCORPORATED. THIS DOCUMENT MAY NOT BE REPRODUCED IN WHOLE OR IN PART BY ANY MEANS WHATSOEVER, NOR MAY IT BE QUOTED OR EXCERPTED WITHOUT THE EXPRESS WRITTEN CONSENT OF ENGEO INCORPORATED.

### WATERSIDE POST EARTHQUAKE (NON-CIRCULAR FAILURE)



### LANDSIDE POST EARTHQUAKE (NON-CIRCULAR FAILURE)



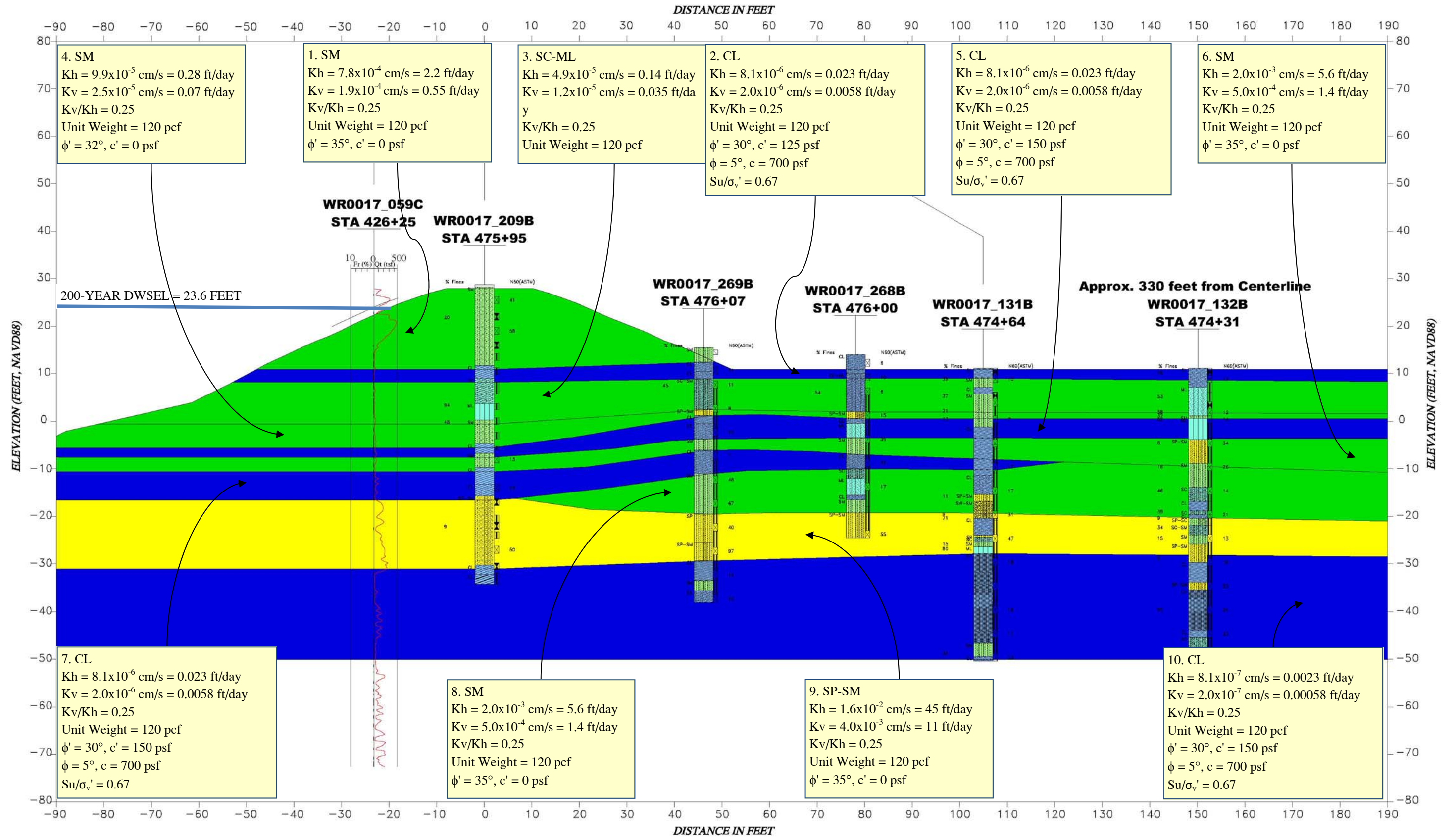
SEISMIC SLOPE STABILITY ANALYSIS  
 REACH H3 - STA 455+55  
 RECLAMATION DISTRICT NO. 17  
 SAN JOAQUIN COUNTY, CALIFORNIA

PROJECT NO.: 5747.005.000	
SCALE: NO SCALE	
DRAWN BY: ZR	CHECKED BY: CC

FIGURE NO.  
**E-31-H**

# WATERSIDE

# LANDSIDE



COPYRIGHT © 2014 BY ENGEO INCORPORATED. THIS DOCUMENT MAY NOT BE REPRODUCED IN WHOLE OR IN PART BY ANY MEANS WHATSOEVER, NOR MAY IT BE QUOTED OR EXCERPTED WITHOUT THE EXPRESS WRITTEN CONSENT OF ENGEO INCORPORATED.



**CROSS SECTION & MATERIAL PARAMETERS**  
 REACH I - STA 476+00  
 RECLAMATION DISTRICT NO. 17  
 SAN JOAQUIN COUNTY, CALIFORNIA

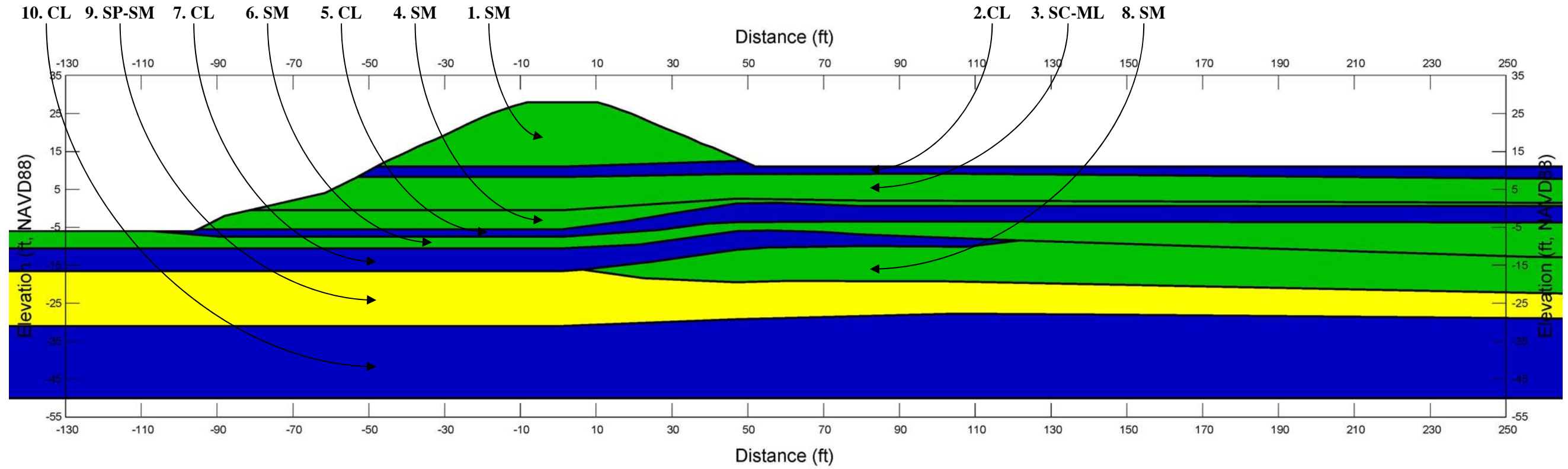
PROJECT NO.: 5747.005.000	
SCALE:	NO SCALE
DRAWN BY:	ZH
CHECKED BY:	NS

FIGURE NO.

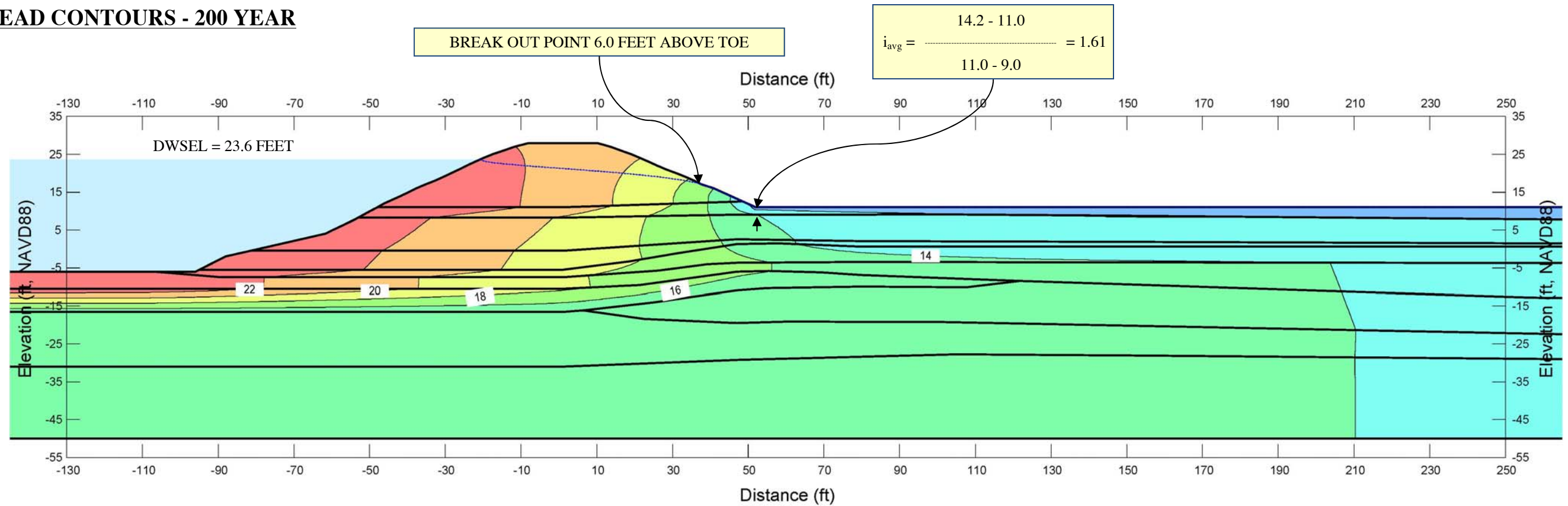
E-32-A

COPYRIGHT © 2014 BY ENGEO INCORPORATED. THIS DOCUMENT MAY NOT BE REPRODUCED IN WHOLE OR IN PART BY ANY MEANS WHATSOEVER, NOR MAY IT BE QUOTED OR EXCERPTED WITHOUT THE EXPRESS WRITTEN CONSENT OF ENGEO INCORPORATED.

### GEOMETRY OF MODEL



### TOTAL HEAD CONTOURS - 200 YEAR



SEEPAGE ANALYSIS  
 REACH I - STA 476+00  
 RECLAMATION DISTRICT NO. 17  
 SAN JOAQUIN COUNTY, CALIFORNIA

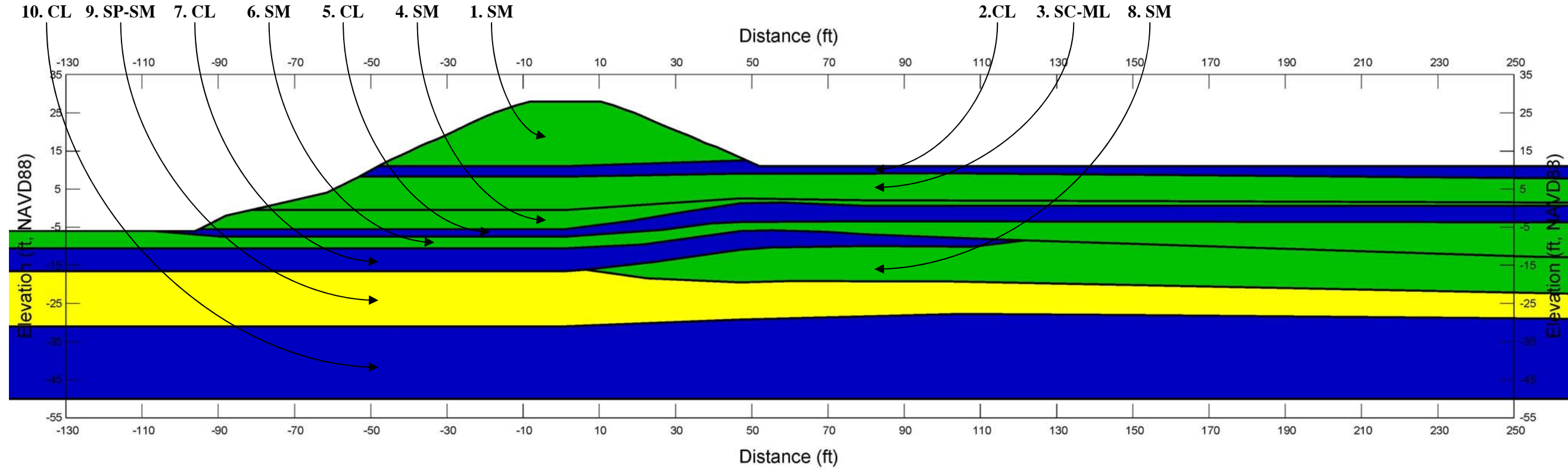
PROJECT NO.: 5747.005.000	
SCALE: NO SCALE	
DRAWN BY: ZR	CHECKED BY: NS

FIGURE NO.

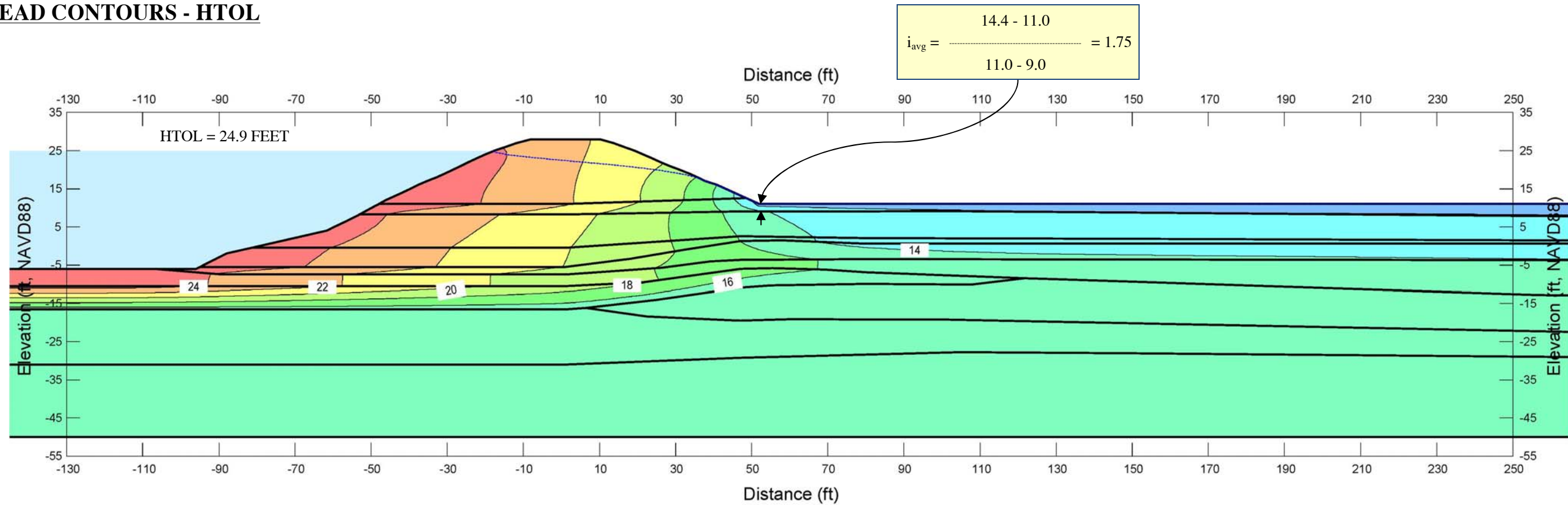
E-32-B

COPYRIGHT © 2014 BY ENGEO INCORPORATED. THIS DOCUMENT MAY NOT BE REPRODUCED IN WHOLE OR IN PART BY ANY MEANS WHATSOEVER, NOR MAY IT BE QUOTED OR EXCERPTED WITHOUT THE EXPRESS WRITTEN CONSENT OF ENGEO INCORPORATED.

### GEOMETRY OF MODEL



### TOTAL HEAD CONTOURS - HTOL



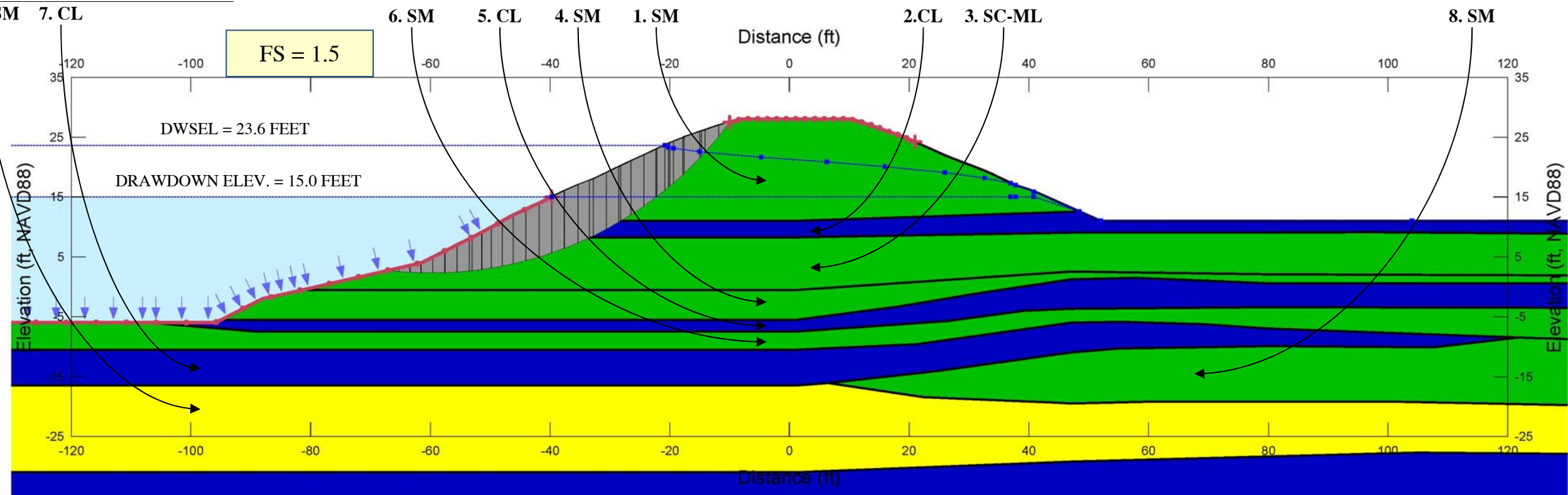
SEEPAGE ANALYSIS  
REACH I - STA 476+00  
RECLAMATION DISTRICT NO. 17  
SAN JOAQUIN COUNTY, CALIFORNIA

PROJECT NO.: 5747.005.000	FIGURE NO.
SCALE: NO SCALE	E-32-C
DRAWN BY: ZR	

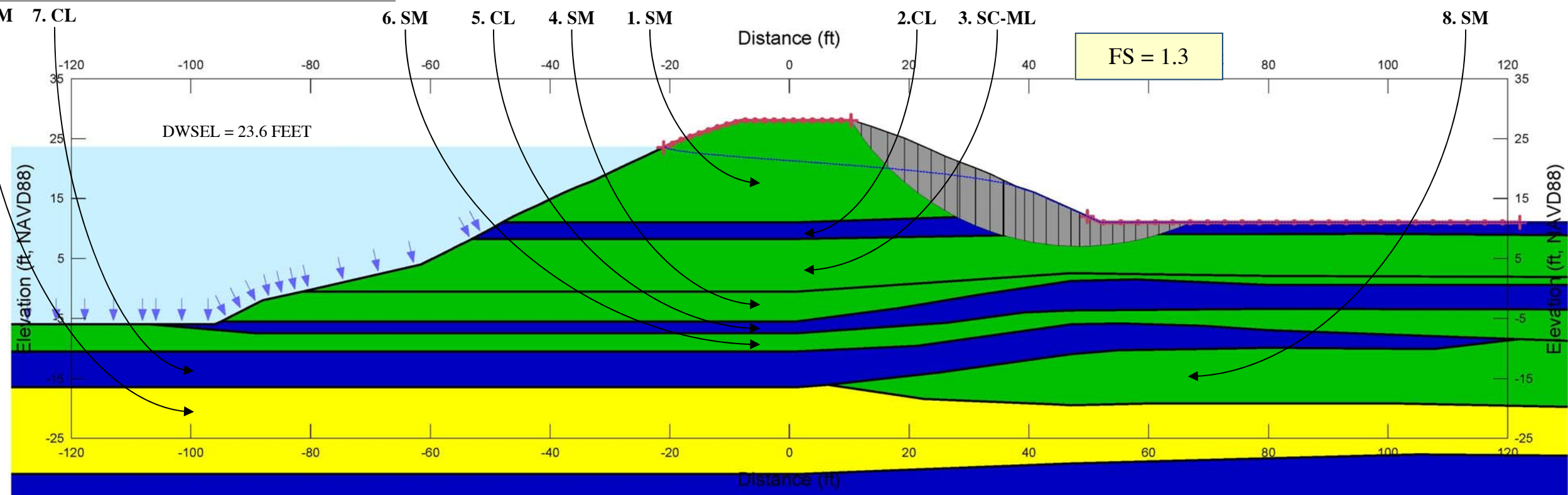



COPYRIGHT © 2014 BY ENGEO INCORPORATED. THIS DOCUMENT MAY NOT BE REPRODUCED IN WHOLE OR IN PART BY ANY MEANS WHATSOEVER, NOR MAY IT BE QUOTED OR EXCERPTED WITHOUT THE EXPRESS WRITTEN CONSENT OF ENGEO INCORPORATED.

### WATERSIDE RAPID DRAWDOWN



### LANDSIDE STEADY STATE SEEPAGE - 200 YEAR

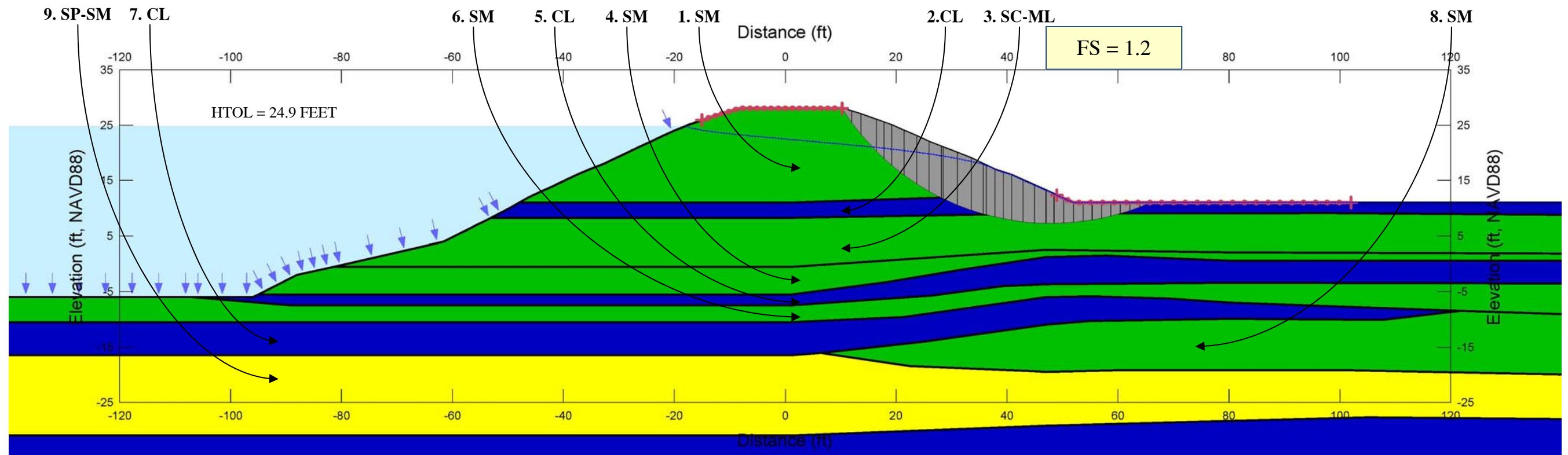


 Expect Excellence	STATIC SLOPE STABILITY ANALYSIS		PROJECT NO.: 5747.005.000	FIGURE NO. <b>E-32-D</b>
	REACH I - STA 476+00		SCALE: NO SCALE	
	RECLAMATION DISTRICT NO. 17		DRAWN BY: ZR	

SAN JOAQUIN COUNTY, CALIFORNIA

COPYRIGHT © 2014 BY ENGEO INCORPORATED. THIS DOCUMENT MAY NOT BE REPRODUCED IN WHOLE OR IN PART BY ANY MEANS WHATSOEVER, NOR MAY IT BE QUOTED OR EXCERPTED WITHOUT THE EXPRESS WRITTEN CONSENT OF ENGEO INCORPORATED.

### LANDSIDE STEADY STATE SEEPAGE - HTOL



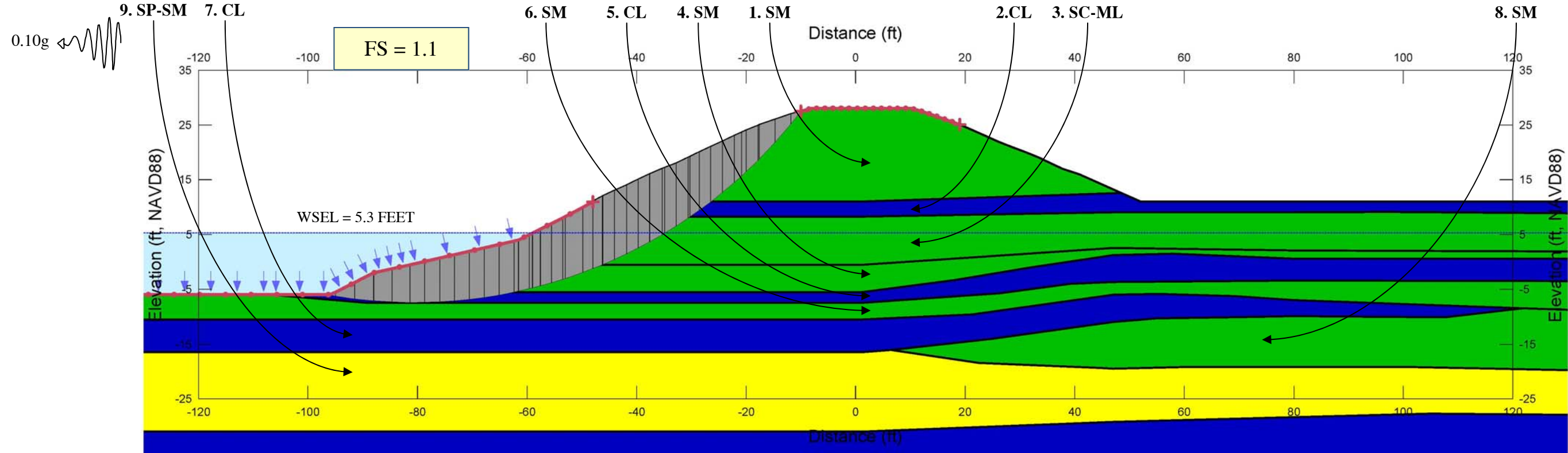
STATIC SLOPE STABILITY ANALYSIS  
 REACH I - STA 476+00  
 RECLAMATION DISTRICT NO. 17  
 SAN JOAQUIN COUNTY, CALIFORNIA

PROJECT NO.: 5747.005.000	
SCALE:	NO SCALE
DRAWN BY: ZR	CHECKED BY: NS

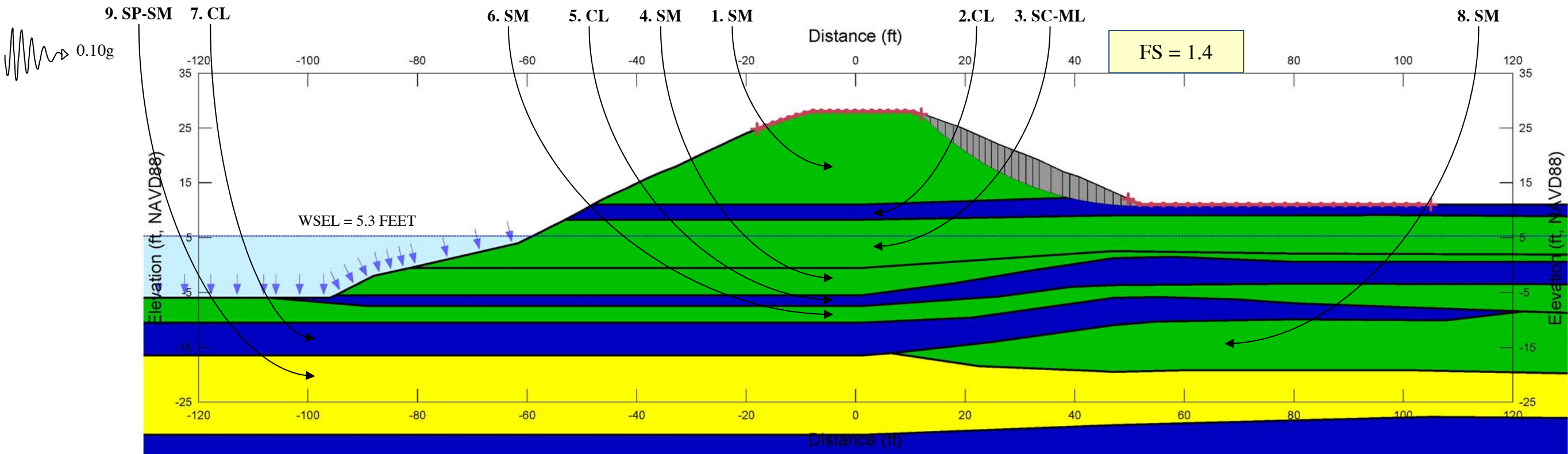
FIGURE NO.  
**E-32-E**

COPYRIGHT © 2014 BY ENGEO INCORPORATED. THIS DOCUMENT MAY NOT BE REPRODUCED IN WHOLE OR IN PART BY ANY MEANS WHATSOEVER, NOR MAY IT BE QUOTED OR EXCERPTED WITHOUT THE EXPRESS WRITTEN CONSENT OF ENGEO INCORPORATED.

### WATERSIDE SEISMIC



### LANDSIDE SEISMIC



SEISMIC SLOPE STABILITY ANALYSIS  
 REACH 1 - STA 476+00  
 RECLAMATION DISTRICT NO. 17  
 SAN JOAQUIN COUNTY, CALIFORNIA

PROJECT NO.: 5747.005.000	
SCALE:	NO SCALE
DRAWN BY:	ZR
CHECKED BY:	NS

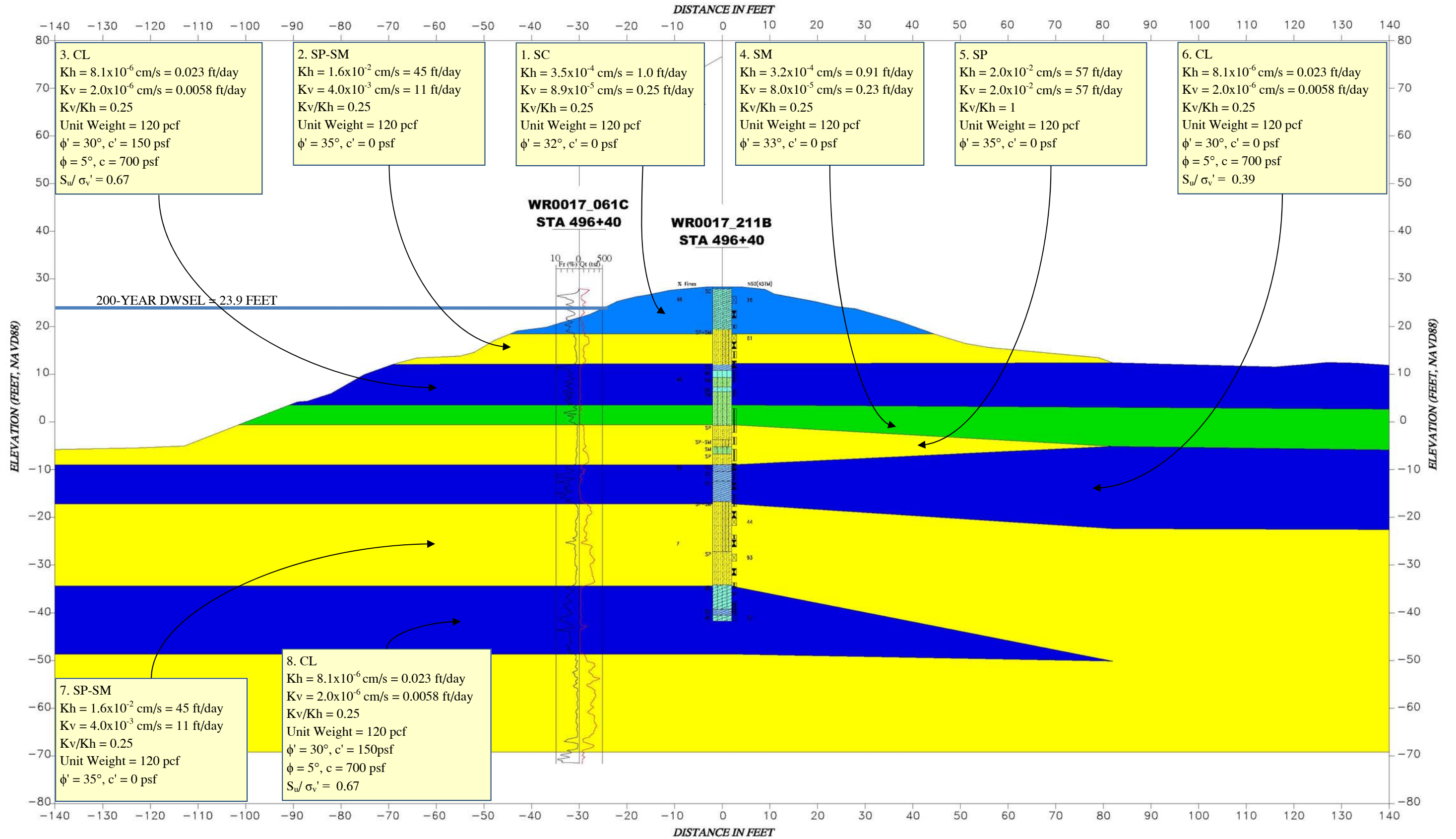
FIGURE NO.

E-32-F

COPYRIGHT © 2014 BY ENGEO INCORPORATED. THIS DOCUMENT MAY NOT BE REPRODUCED IN WHOLE OR IN PART BY ANY MEANS WHATSOEVER, NOR MAY IT BE QUOTED OR EXCERPTED WITHOUT THE EXPRESS WRITTEN CONSENT OF ENGEO INCORPORATED.

# WATERSIDE

# LANDSIDE



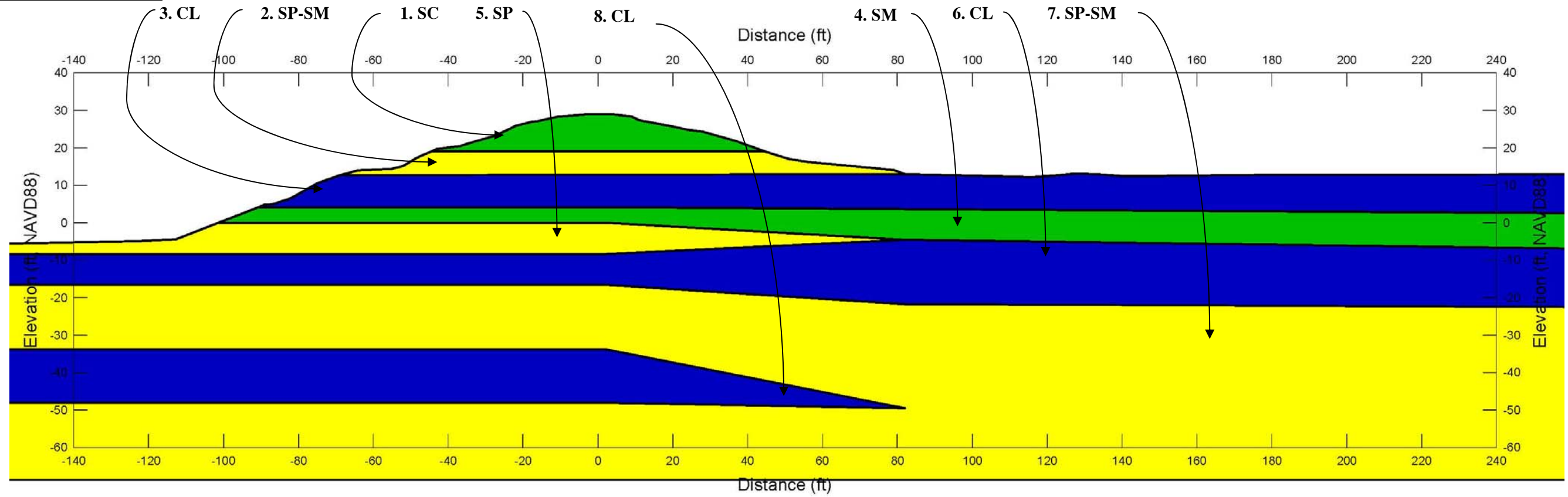
CROSS SECTION & MATERIAL PARAMETERS  
 REACH I - STA 496+28  
 RECLAMATION DISTRICT NO. 17  
 SAN JOAQUIN COUNTY, CALIFORNIA

PROJECT NO.: 5747.005.000	
SCALE:	NO SCALE
DRAWN BY: MH	CHECKED BY: NS

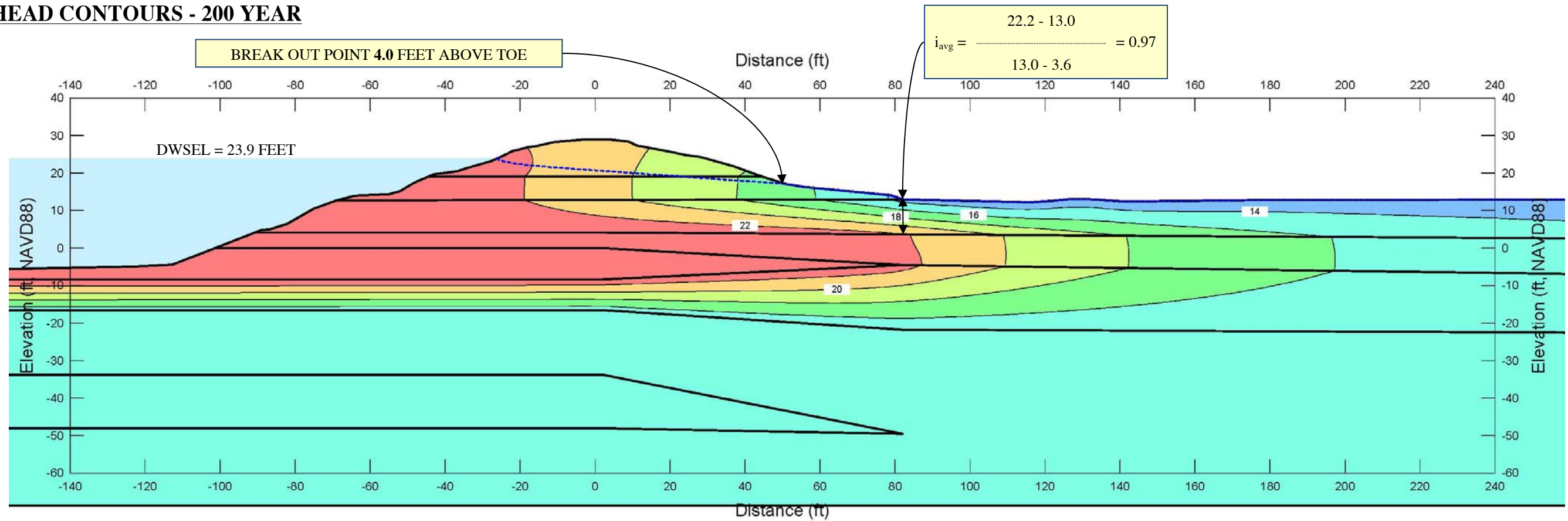
FIGURE NO.  
**E-33-A**

COPYRIGHT © 2014 BY ENGEO INCORPORATED. THIS DOCUMENT MAY NOT BE REPRODUCED IN WHOLE OR IN PART BY ANY MEANS WHATSOEVER WITHOUT THE EXPRESS WRITTEN CONSENT OF ENGEO INCORPORATED.

### GEOMETRY OF MODEL



### TOTAL HEAD CONTOURS - 200 YEAR



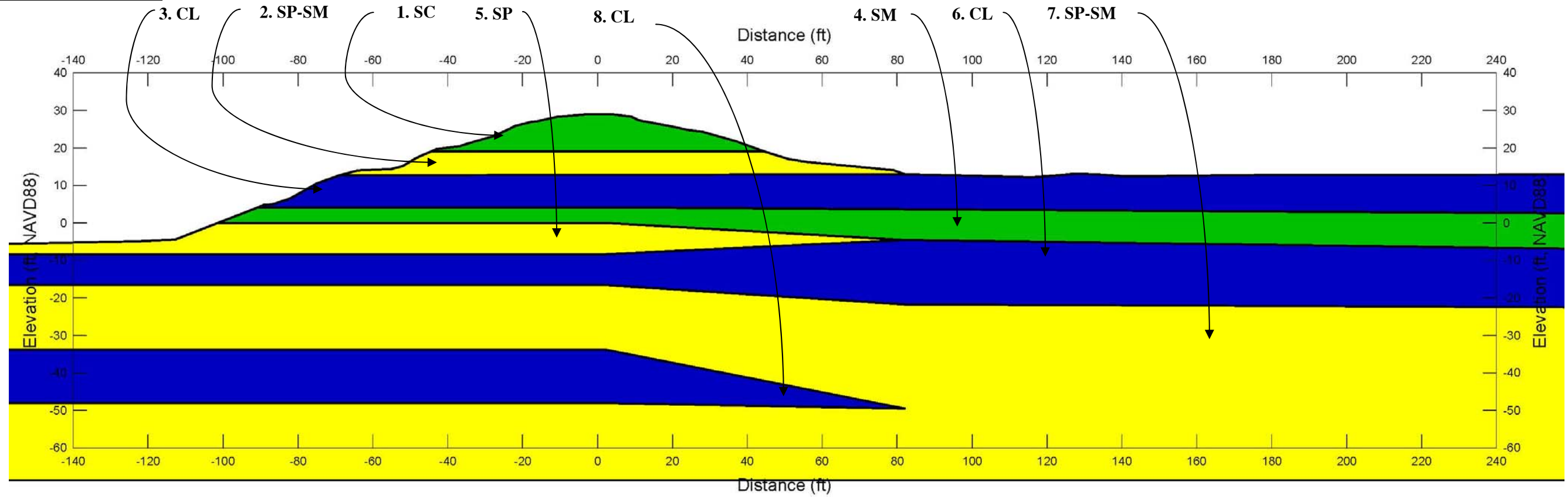
SEEPAGE ANALYSIS  
REACH I - STA 496+28  
RECLAMATION DISTRICT NO. 17  
SAN JOAQUIN COUNTY, CALIFORNIA

PROJECT NO.: 5747.005.000	
SCALE: NO SCALE	
DRAWN BY: MH	CHECKED BY: NS

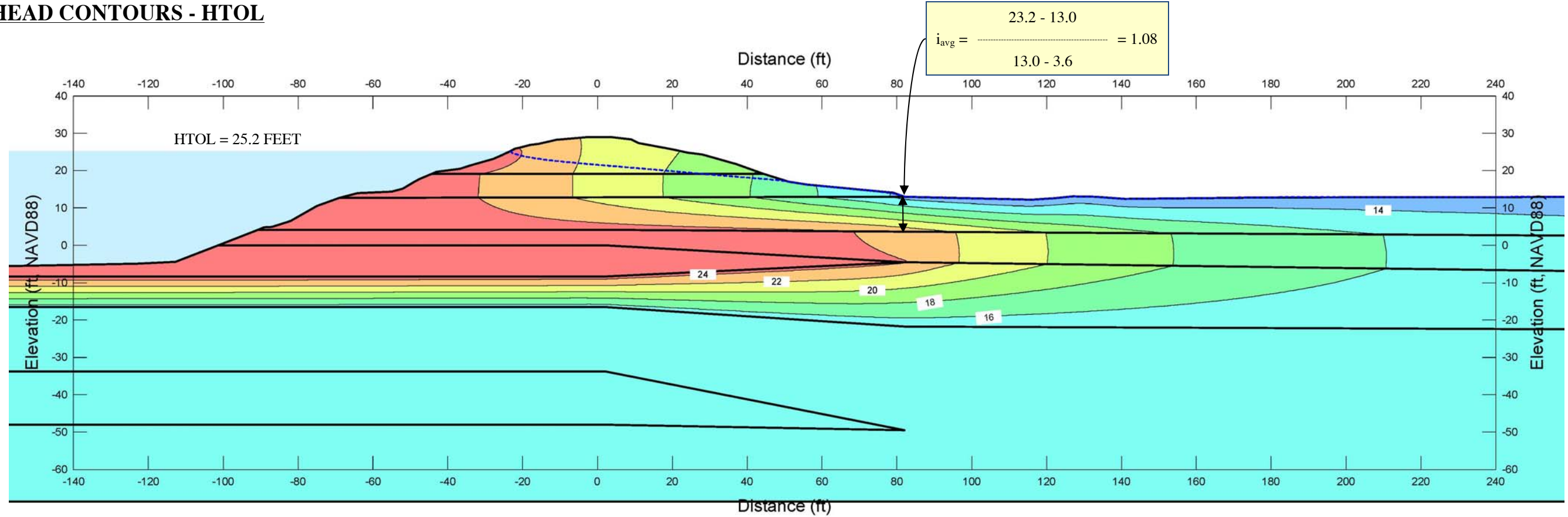
FIGURE NO.  
**E-33-B**

COPYRIGHT © 2014 BY ENGEO INCORPORATED. THIS DOCUMENT MAY NOT BE REPRODUCED IN WHOLE OR IN PART BY ANY MEANS WHATSOEVER WITHOUT THE EXPRESS WRITTEN CONSENT OF ENGEO INCORPORATED.

### GEOMETRY OF MODEL



### TOTAL HEAD CONTOURS - HTOL



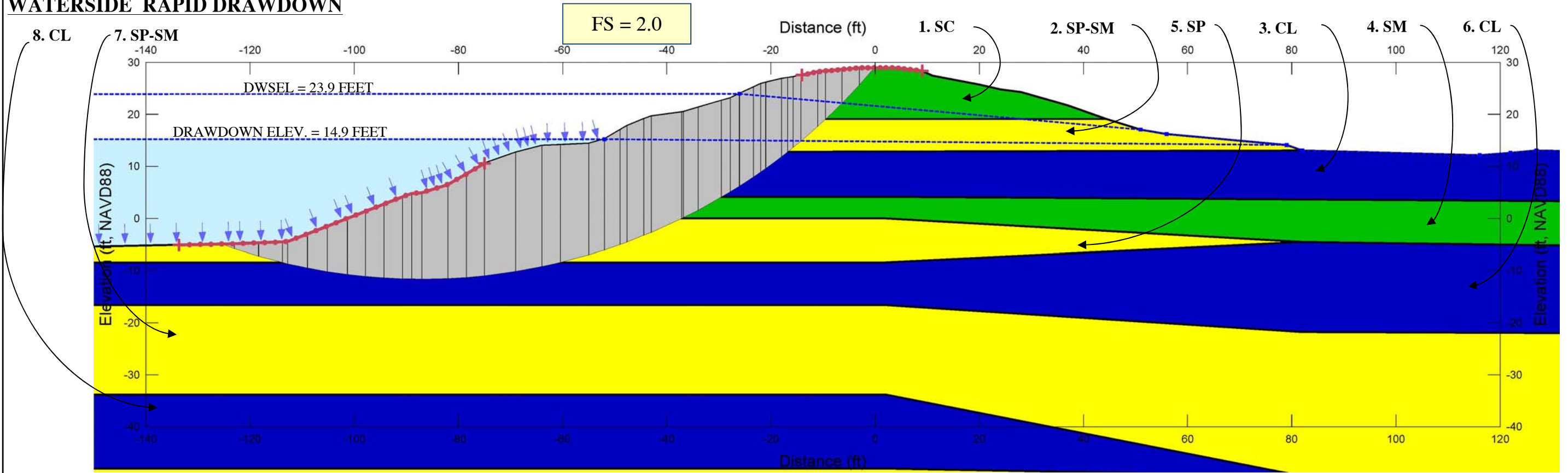
SEEPAGE ANALYSIS  
 REACH I - STA 496+28  
 RECLAMATION DISTRICT NO. 17  
 SAN JOAQUIN COUNTY, CALIFORNIA

PROJECT NO.: 5747.005.000	
SCALE:	NO SCALE
DRAWN BY:	MH
CHECKED BY:	NS

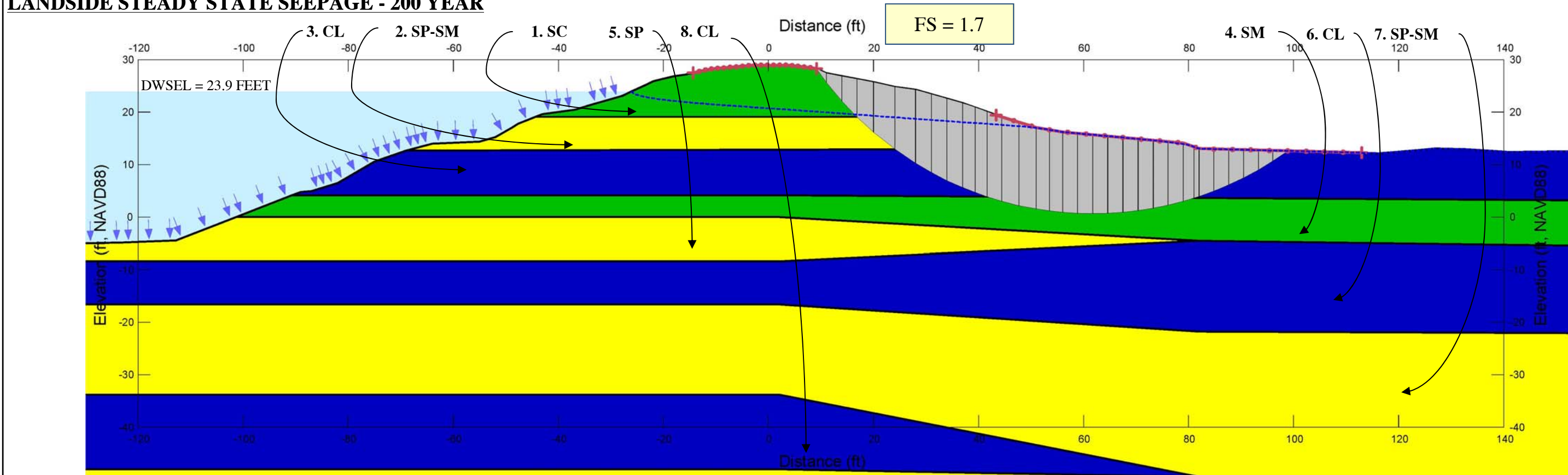
FIGURE NO.  
**E-33-C**

COPYRIGHT © 2014 BY ENGEO INCORPORATED. THIS DOCUMENT MAY NOT BE REPRODUCED IN WHOLE OR IN PART BY ANY MEANS WHATSOEVER, NOR MAY IT BE QUOTED OR EXCERPTED WITHOUT THE EXPRESS WRITTEN CONSENT OF ENGEO INCORPORATED.

### WATERSIDE RAPID DRAWDOWN



### LANDSIDE STEADY STATE SEEPAGE - 200 YEAR



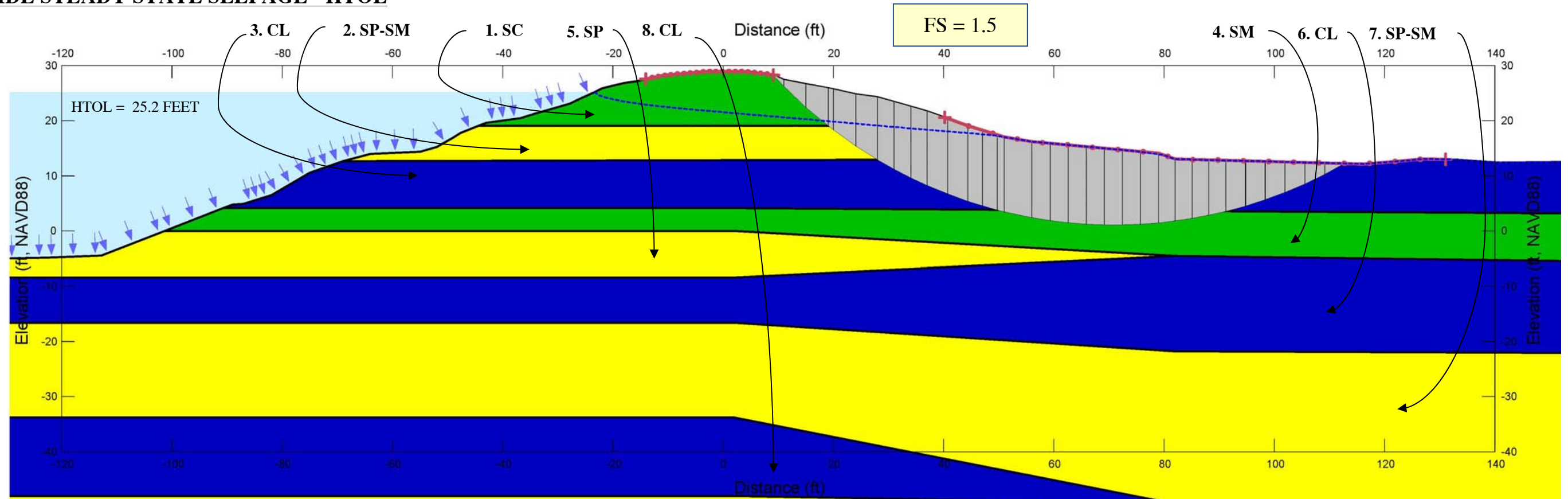
STATIC SLOPE STABILITY ANALYSIS  
 REACH I - STA 496+28  
 RECLAMATION DISTRICT NO. 17  
 SAN JOAQUIN COUNTY, CALIFORNIA

PROJECT NO.: 5747.005.000	
SCALE:	NO SCALE
DRAWN BY:	MH
CHECKED BY:	NS

FIGURE NO.  
**E-33-D**

COPYRIGHT © 2014 BY ENGEO INCORPORATED. THIS DOCUMENT MAY NOT BE REPRODUCED IN WHOLE OR IN PART BY ANY MEANS WHATSOEVER WITHOUT THE EXPRESS WRITTEN CONSENT OF ENGEO INCORPORATED.

### LANDSIDE STEADY STATE SEEPAGE - HTOL



STATIC SLOPE STABILITY ANALYSIS  
 REACH I - STA 496+28  
 RECLAMATION DISTRICT NO. 17  
 SAN JOAQUIN COUNTY, CALIFORNIA

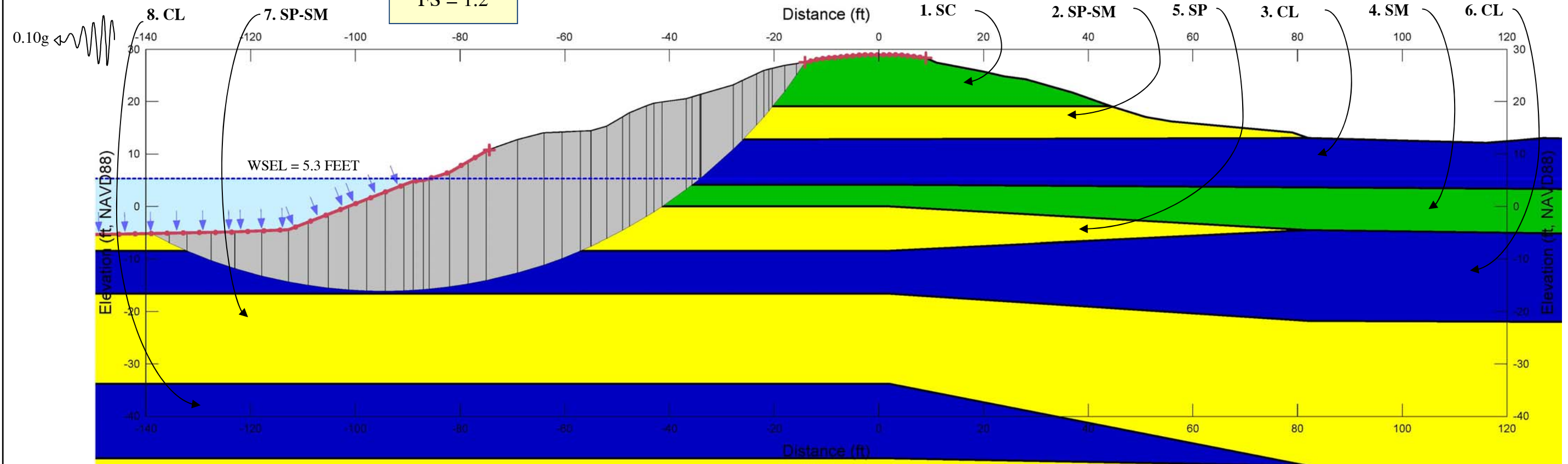
PROJECT NO.: 5747.005.000	
SCALE: NO SCALE	
DRAWN BY: MH	CHECKED BY: NS

FIGURE NO.  
**E-33-E**

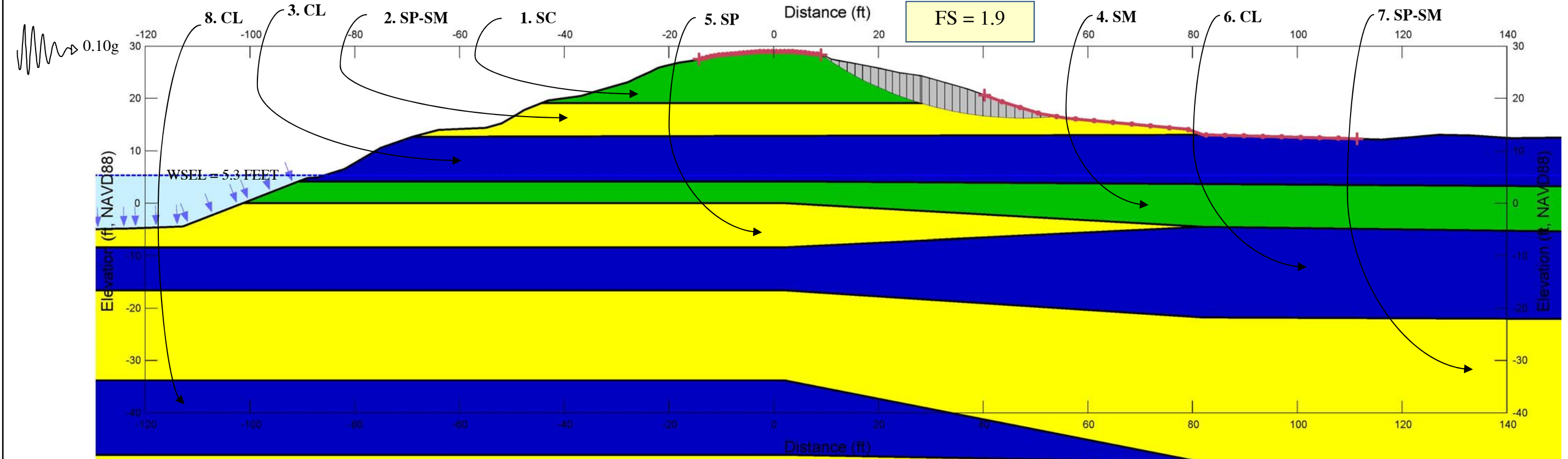


COPYRIGHT © 2014 BY ENGEO INCORPORATED. THIS DOCUMENT MAY NOT BE REPRODUCED IN WHOLE OR IN PART BY ANY MEANS WHATSOEVER, NOR MAY IT BE QUOTED OR EXCERPTED WITHOUT THE EXPRESS WRITTEN CONSENT OF ENGEO INCORPORATED.

### WATERSIDE SEISMIC



### LANDSIDE SEISMIC



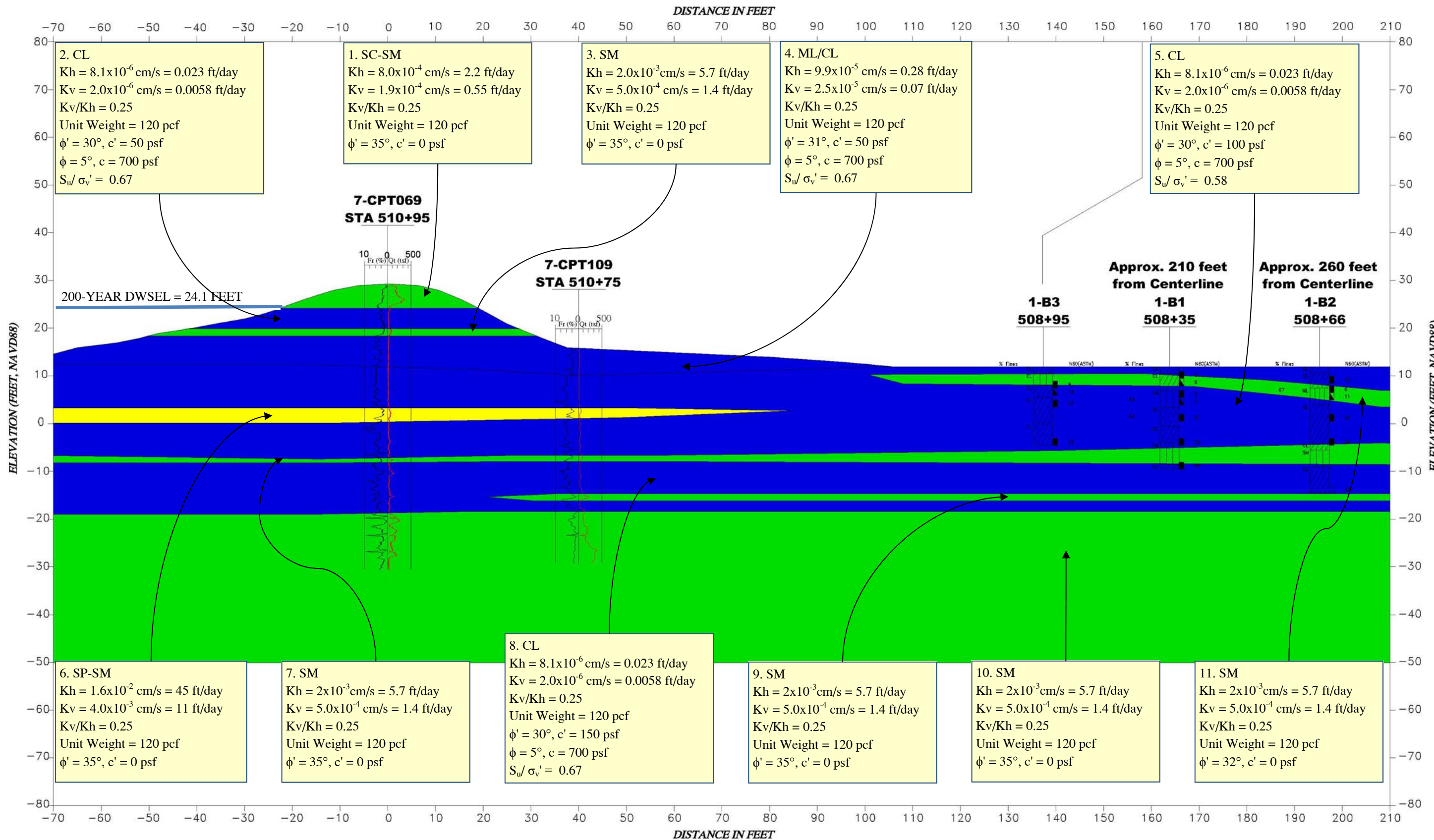
SEISMIC SLOPE STABILITY ANALYSIS  
 REACH 1 - STA 496+28  
 RECLAMATION DISTRICT NO. 17  
 SAN JOAQUIN COUNTY, CALIFORNIA

PROJECT NO.: 5747.005.000	
SCALE: NO SCALE	
DRAWN BY: MH	CHECKED BY: NS

FIGURE NO.  
**E-33-F**

# WATERSIDE

# LANDSIDE



COPYRIGHT © 2014 BY ENGEO INCORPORATED. THIS DOCUMENT MAY NOT BE REPRODUCED IN WHOLE OR IN PART BY ANY MEANS WHATSOEVER, NOR MAY IT BE QUOTED OR EXCERPTED WITHOUT THE EXPRESS WRITTEN CONSENT OF ENGEO INCORPORATED.



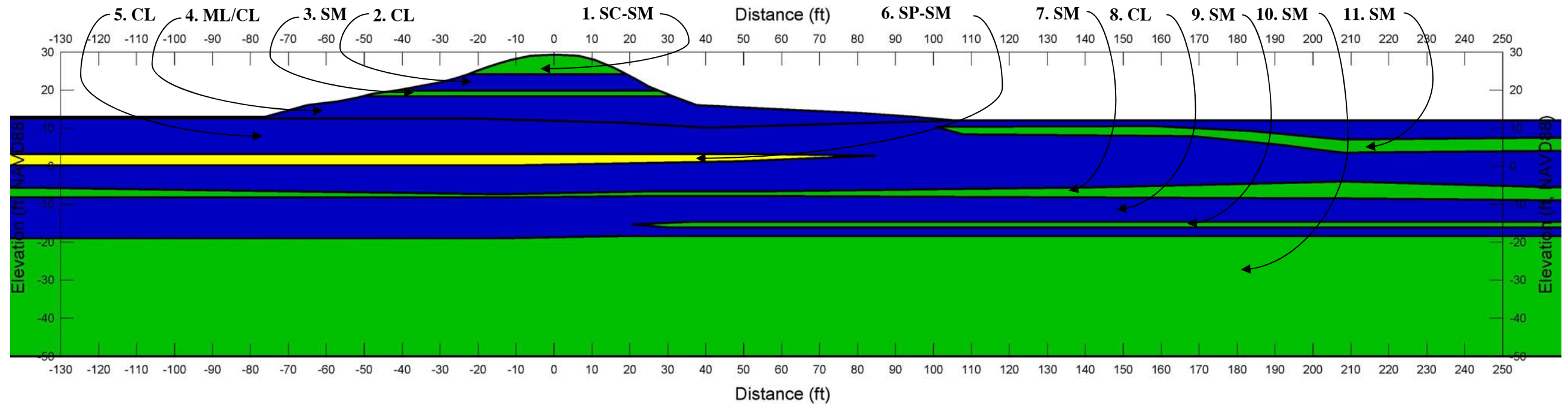
**CROSS SECTION & MATERIAL PARAMETERS**  
 REACH J1A - STA 511+00  
 RECLAMATION DISTRICT NO. 17  
 SAN JOAQUIN COUNTY, CALIFORNIA

PROJECT NO.: 5747.005.000	
SCALE:	NO SCALE
DRAWN BY:	MH
CHECKED BY:	NS

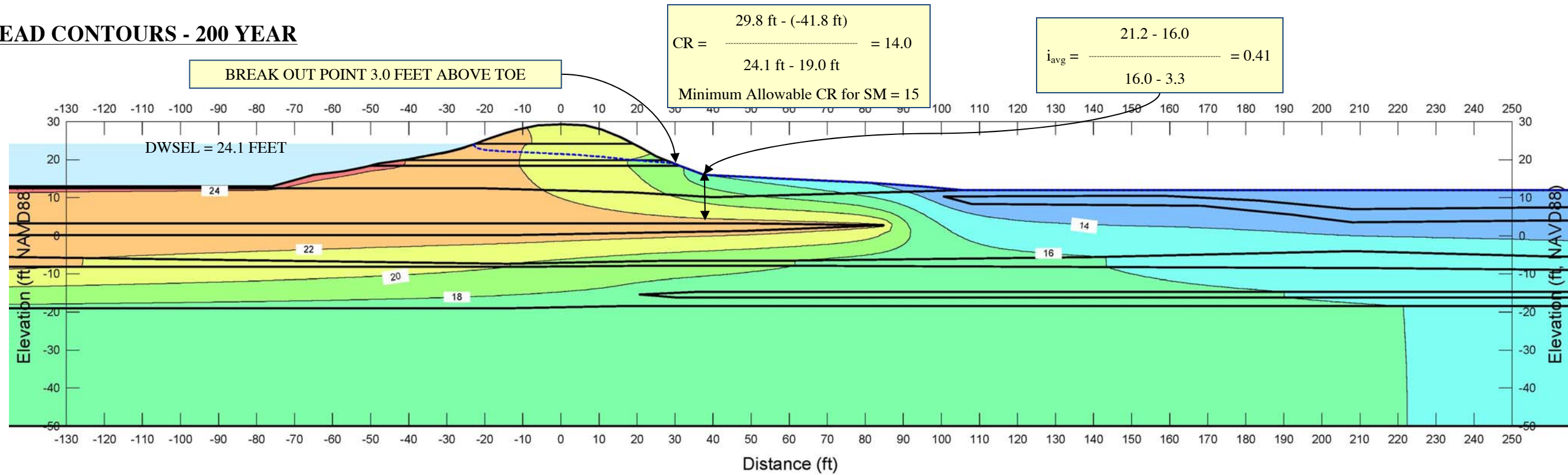
FIGURE NO.  
**E-34-A**

COPYRIGHT © 2014 BY ENGEO INCORPORATED. THIS DOCUMENT MAY NOT BE REPRODUCED IN WHOLE OR IN PART BY ANY MEANS WHATSOEVER, NOR MAY IT BE QUOTED OR EXCERPTED WITHOUT THE EXPRESS WRITTEN CONSENT OF ENGEO INCORPORATED.

### GEOMETRY OF MODEL



### TOTAL HEAD CONTOURS - 200 YEAR



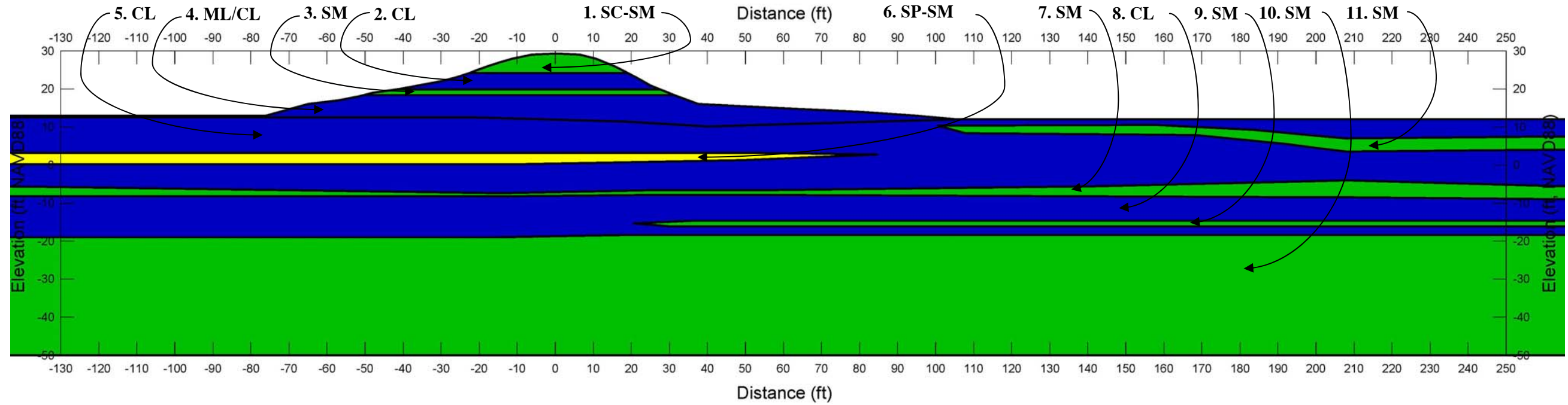
SEEPAGE ANALYSIS  
 REACH J1A - STA 511+00  
 RECLAMATION DISTRICT NO. 17  
 SAN JOAQUIN COUNTY, CALIFORNIA

PROJECT NO.: 5747.005.000	
SCALE: NO SCALE	
DRAWN BY: MH	CHECKED BY: NS

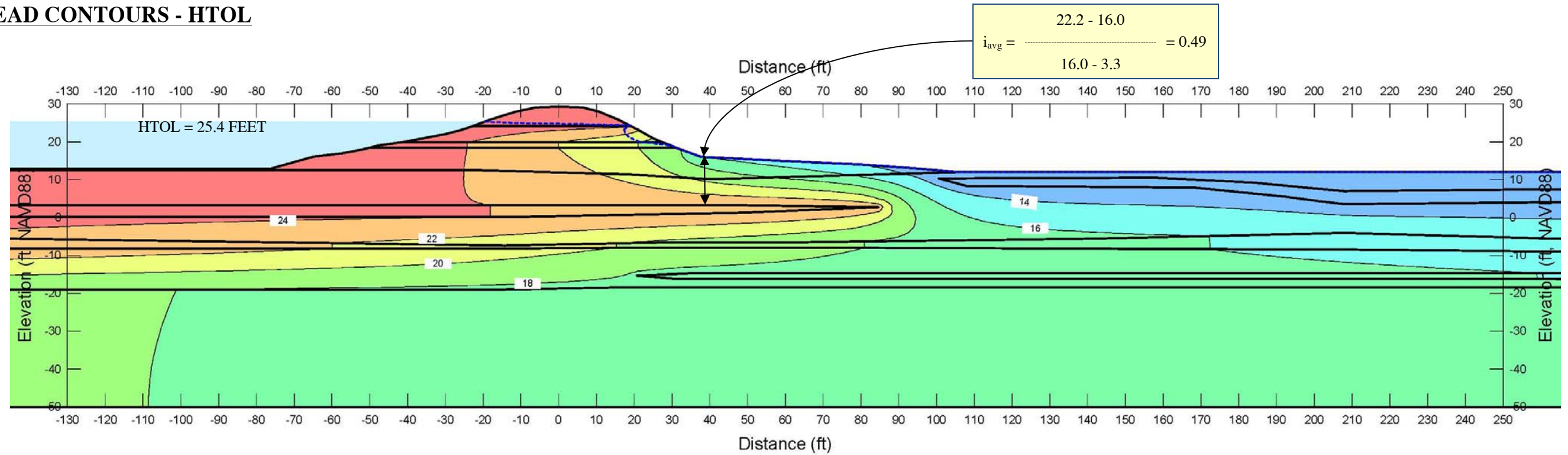
FIGURE NO.  
 E-34-B

COPYRIGHT © 2014 BY ENGEO INCORPORATED. THIS DOCUMENT MAY NOT BE REPRODUCED IN WHOLE OR IN PART BY ANY MEANS WHATSOEVER, NOR MAY IT BE QUOTED OR EXCERPTED WITHOUT THE EXPRESS WRITTEN CONSENT OF ENGEO INCORPORATED.

### GEOMETRY OF MODEL

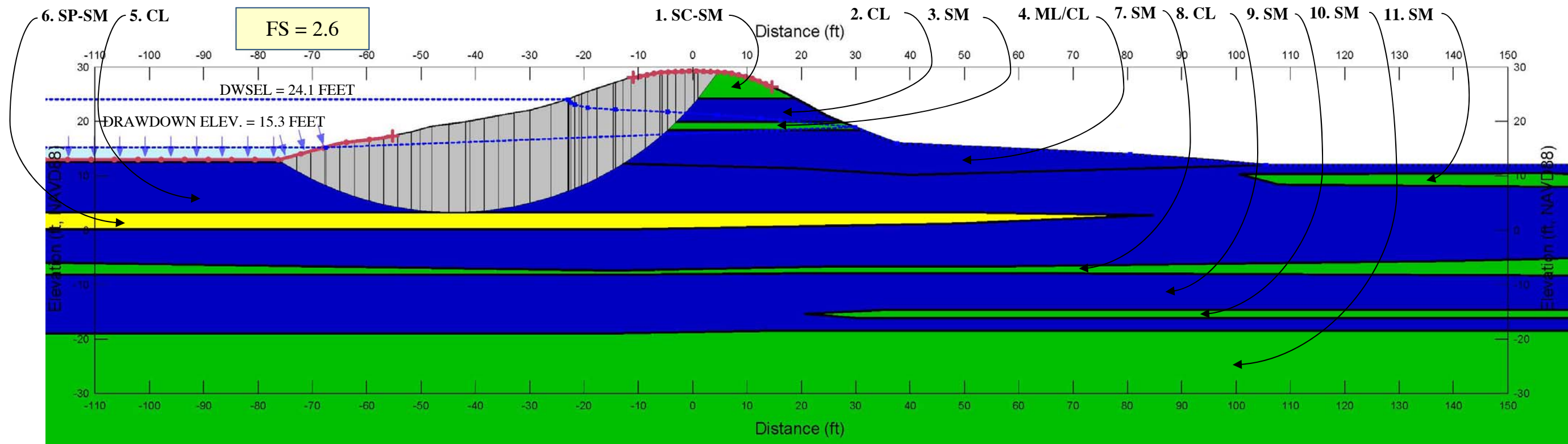


### TOTAL HEAD CONTOURS - HTOL

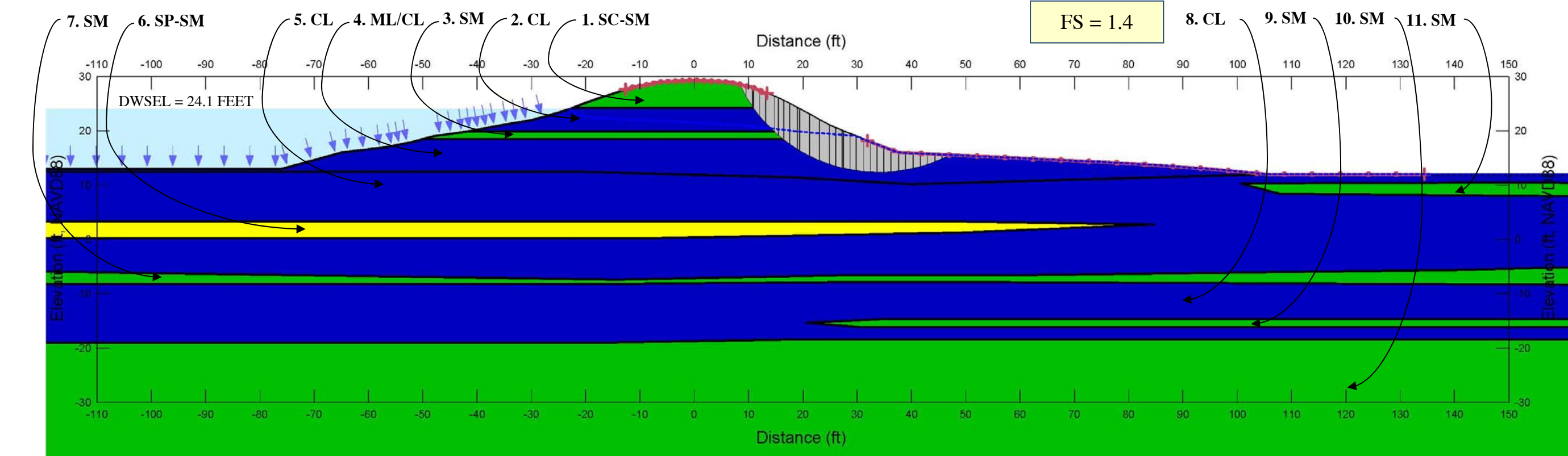


COPYRIGHT © 2014 BY ENGEO INCORPORATED. THIS DOCUMENT MAY NOT BE REPRODUCED IN WHOLE OR IN PART BY ANY MEANS WHATSOEVER, NOR MAY IT BE QUOTED OR EXCERPTED WITHOUT THE EXPRESS WRITTEN CONSENT OF ENGEO INCORPORATED.

### WATERSIDE RAPID DRAWDOWN

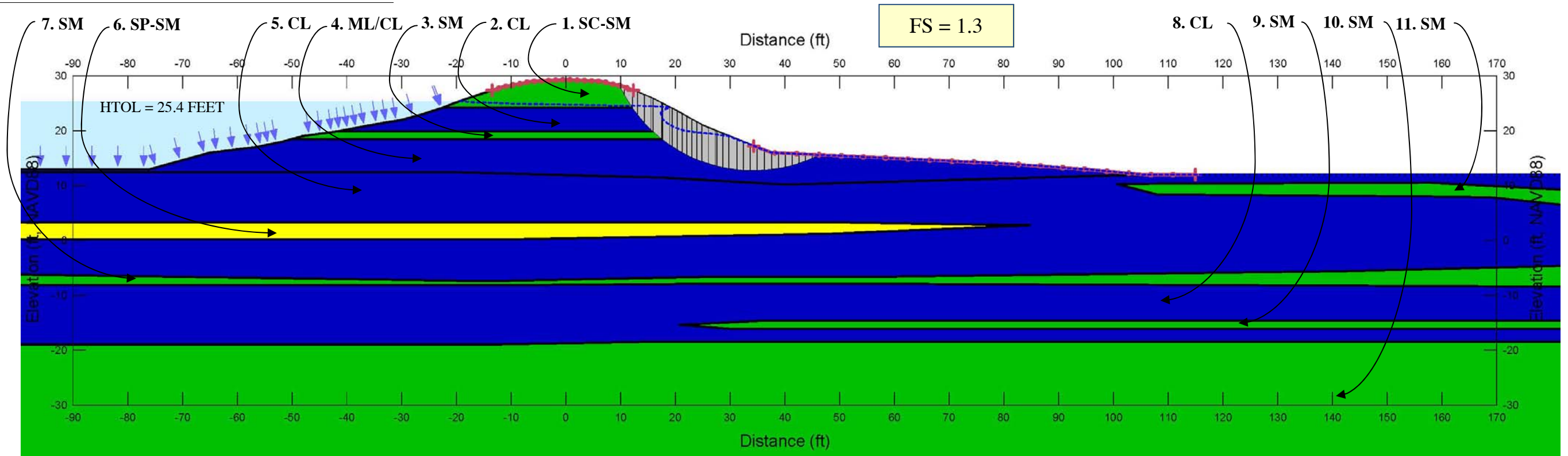


### LANDSIDE STEADY STATE SEEPAGE - 200 YEAR



	STATIC SLOPE STABILITY ANALYSIS REACH J1A - STA 511+00 RECLAMATION DISTRICT NO. 17 SAN JOAQUIN COUNTY, CALIFORNIA		PROJECT NO.: 5747.005.000	FIGURE NO. <b>E-34-D</b>
			SCALE: NO SCALE	
			DRAWN BY: MH    CHECKED BY: NS	

### LANDSIDE STEADY STATE SEEPAGE - HTOL



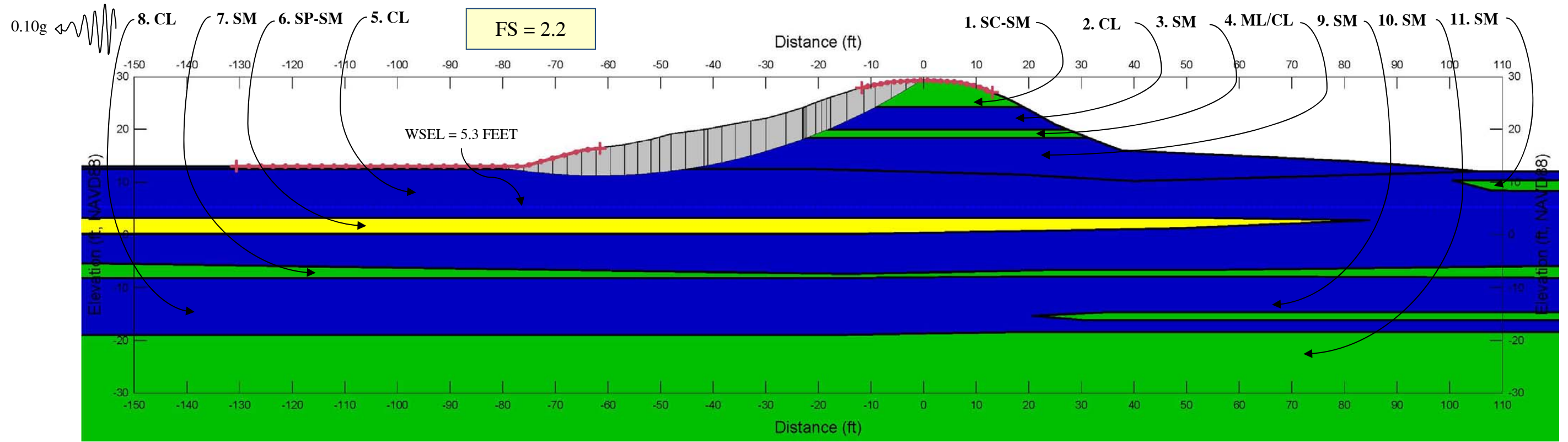
STATIC SLOPE STABILITY ANALYSIS  
 REACH J1A - STA 511+00  
 RECLAMATION DISTRICT NO. 17  
 SAN JOAQUIN COUNTY, CALIFORNIA

PROJECT NO.: 5747.005.000	
SCALE:	NO SCALE
DRAWN BY:	MH
CHECKED BY:	NS

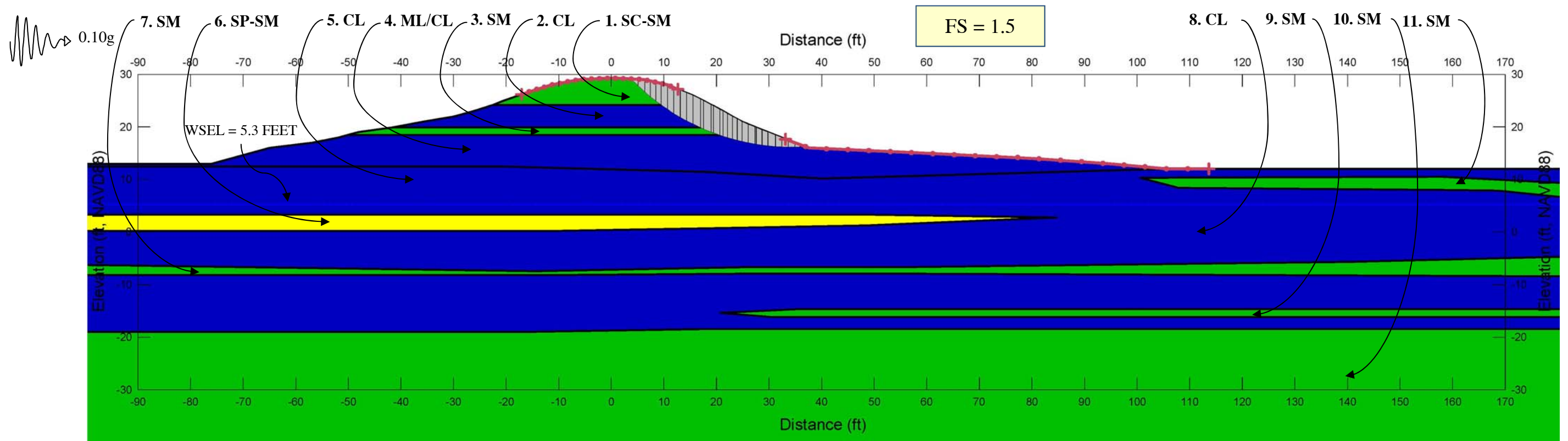
FIGURE NO.  
**E-34-E**


COPYRIGHT © 2014 BY ENGEO INCORPORATED. THIS DOCUMENT MAY NOT BE REPRODUCED IN WHOLE OR IN PART BY ANY MEANS WHATSOEVER, NOR MAY IT BE QUOTED OR EXCERPTED WITHOUT THE EXPRESS WRITTEN CONSENT OF ENGEO INCORPORATED.

## WATERSIDE SEISMIC



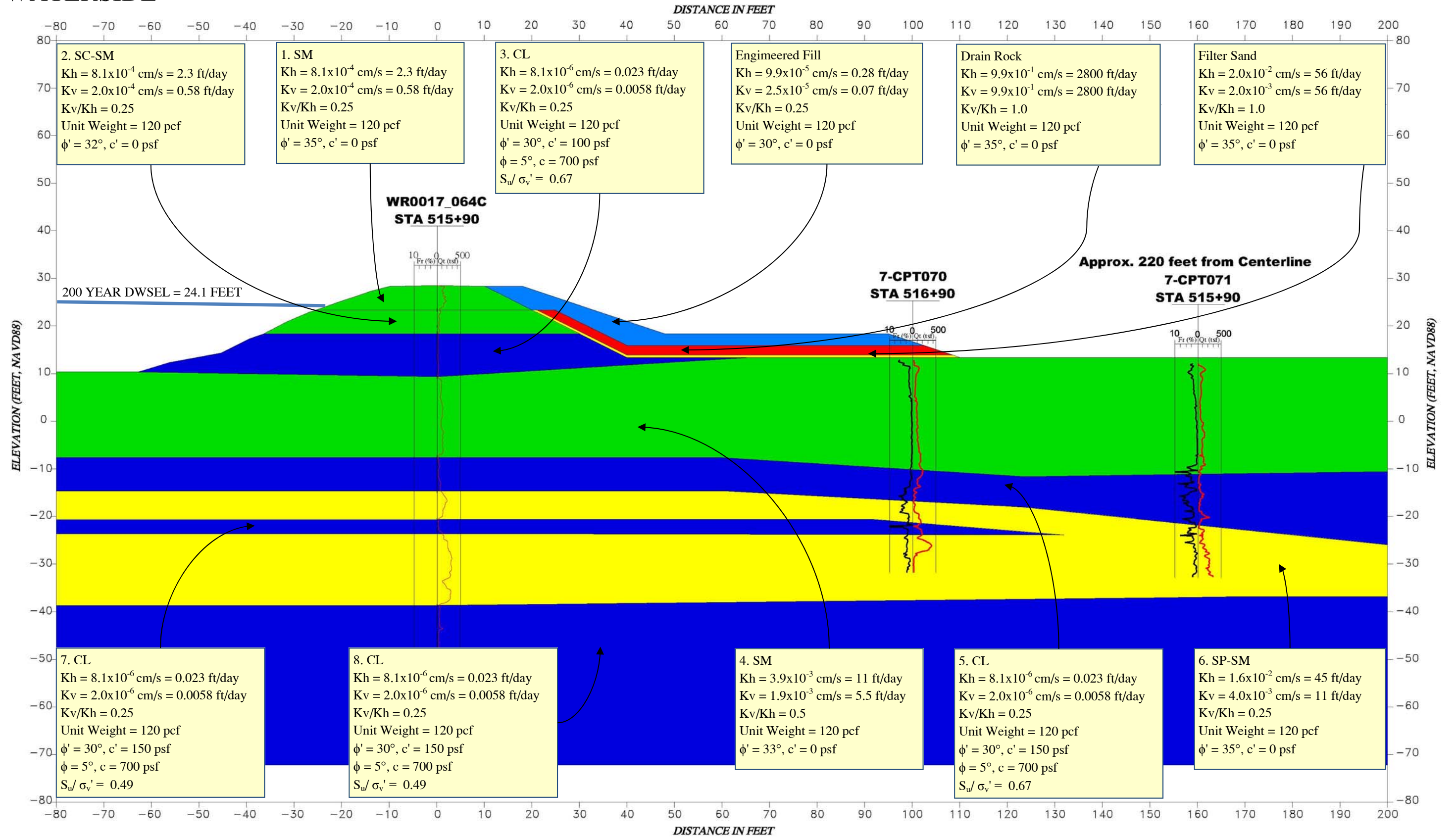
## LANDSIDE SEISMIC



 Expect Excellence	<b>SEISMIC SLOPE STABILITY ANALYSIS</b> REACH J1A - STA 511+00 RECLAMATION DISTRICT NO. 17 SAN JOAQUIN COUNTY, CALIFORNIA		PROJECT NO.: 5747.005.000	FIGURE NO. <b>E-34-F</b>
			SCALE: NO SCALE	
			DRAWN BY: MH    CHECKED BY: NS	

# WATERSIDE

# LANDSIDE



COPYRIGHT © 2014 BY ENGEO INCORPORATED. THIS DOCUMENT MAY NOT BE REPRODUCED IN WHOLE OR IN PART BY ANY MEANS WHATSOEVER, NOR MAY IT BE QUOTED OR EXCERPTED WITHOUT THE EXPRESS WRITTEN CONSENT OF ENGEO INCORPORATED.



**CROSS SECTION & MATERIAL PARAMETERS**  
 REACH J1A - STA 516+00  
 RECLAMATION DISTRICT NO. 17  
 SAN JOAQUIN COUNTY, CALIFORNIA

PROJECT NO.: 5747.005.000	
SCALE:	NO SCALE
DRAWN BY:	MH
CHECKED BY:	NS

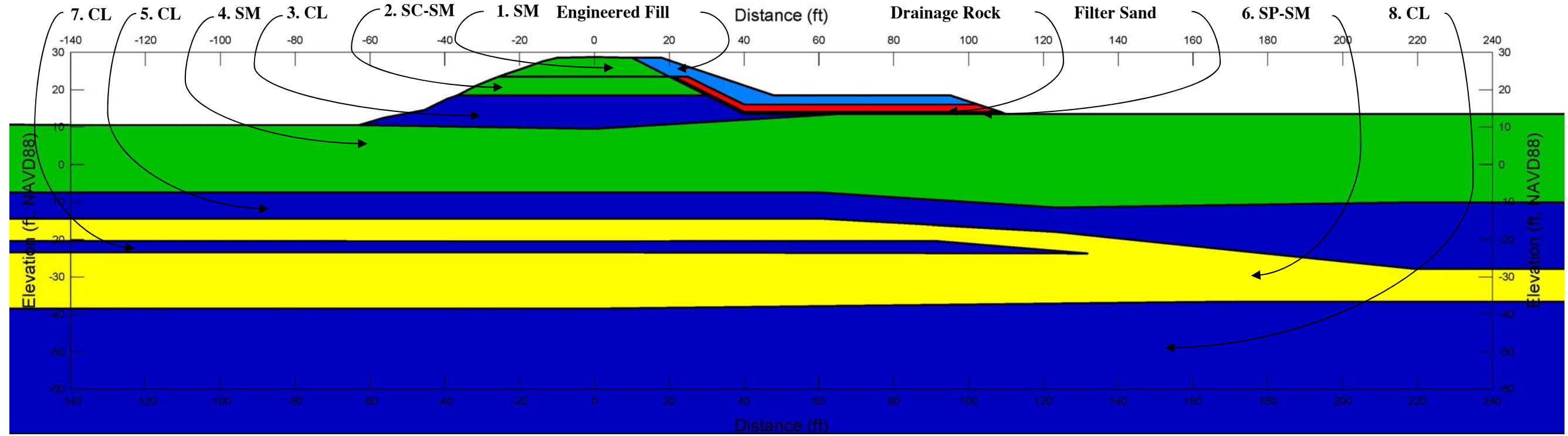
FIGURE NO.

E-35-A

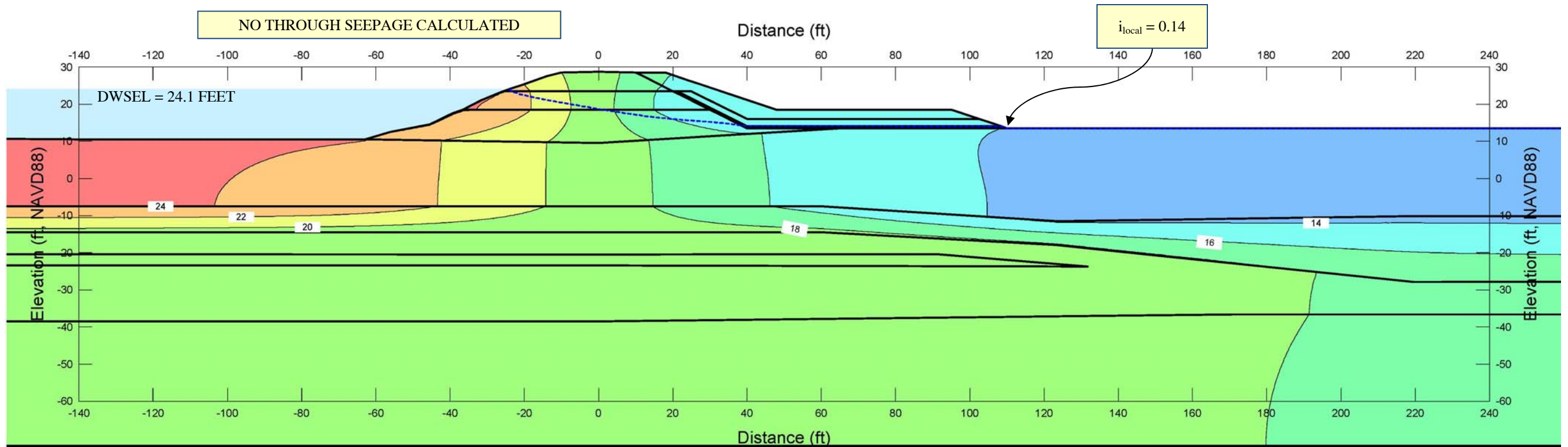


COPYRIGHT © 2014 BY ENGEO INCORPORATED. THIS DOCUMENT MAY NOT BE REPRODUCED IN WHOLE OR IN PART BY ANY MEANS WHATSOEVER, NOR MAY IT BE QUOTED OR EXCERPTED WITHOUT THE EXPRESS WRITTEN CONSENT OF ENGEO INCORPORATED.

### GEOMETRY OF MODEL



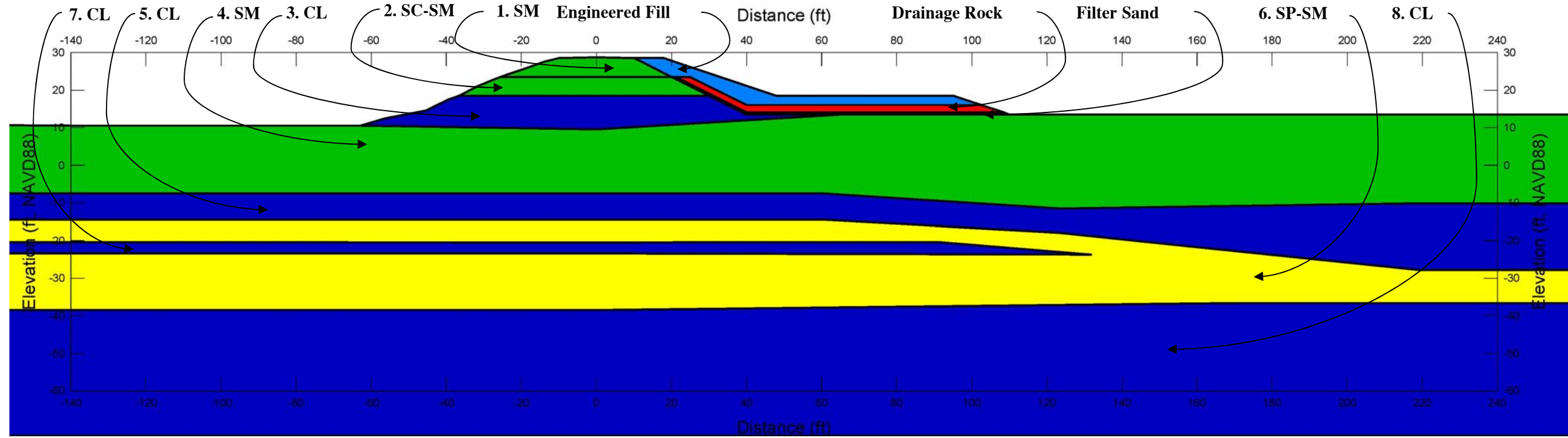
### TOTAL HEAD CONTOURS - 200 YEAR



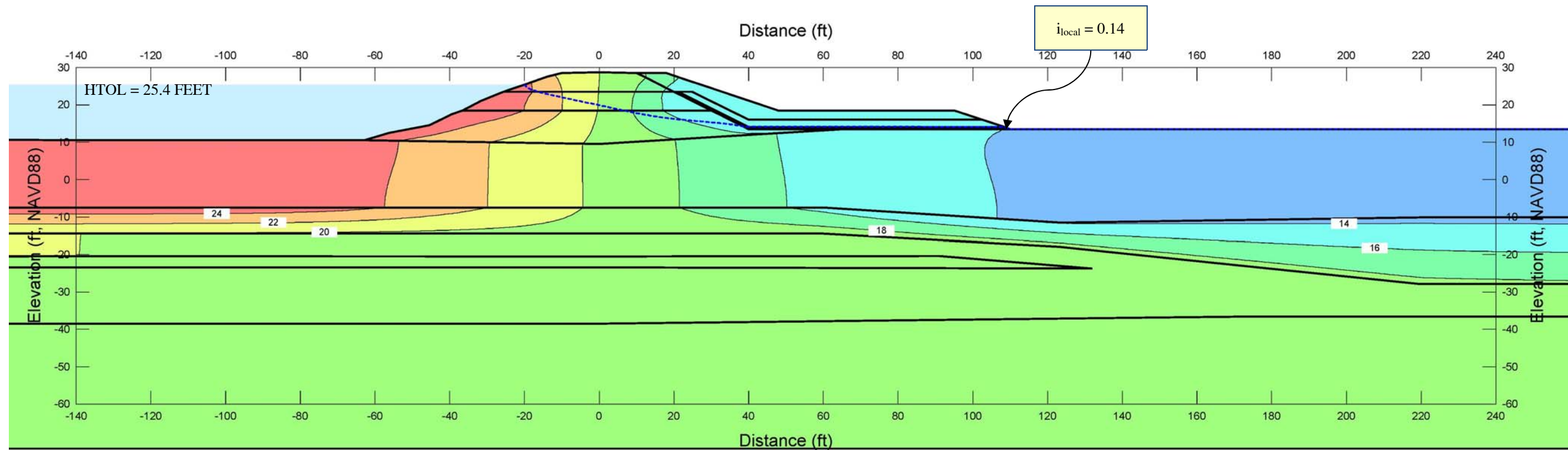
	SEEPAGE ANALYSIS REACH J1A - STA 516+00 RECLAMATION DISTRICT NO. 17 SAN JOAQUIN COUNTY, CALIFORNIA		PROJECT NO.: 5747.005.000	FIGURE NO. <b>E-35-B</b>
			SCALE: NO SCALE	
			DRAWN BY: MH   CHECKED BY: NS	

COPYRIGHT © 2014 BY ENGEO INCORPORATED. THIS DOCUMENT MAY NOT BE REPRODUCED IN WHOLE OR IN PART BY ANY MEANS WHATSOEVER, NOR MAY IT BE QUOTED OR EXCERPTED WITHOUT THE EXPRESS WRITTEN CONSENT OF ENGEO INCORPORATED.

### GEOMETRY OF MODEL



### TOTAL HEAD CONTOURS - HTOL



SEEPAGE ANALYSIS  
 REACH J1A - STA 516+00  
 RECLAMATION DISTRICT NO. 17  
 SAN JOAQUIN COUNTY, CALIFORNIA

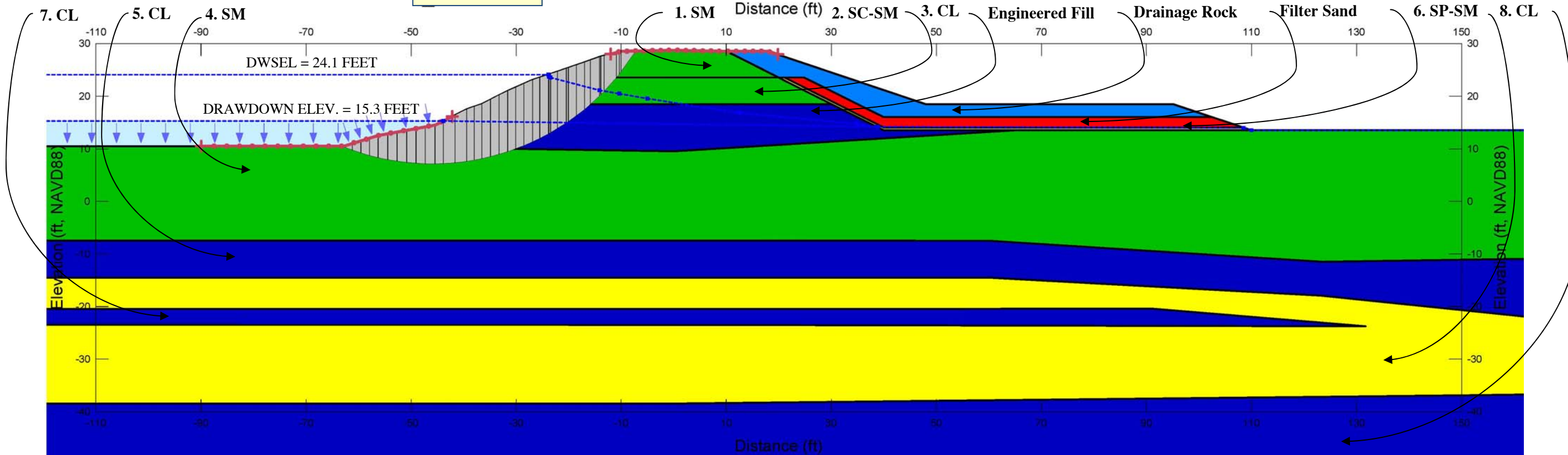
PROJECT NO.: 5747.005.000	
SCALE: NO SCALE	
DRAWN BY: MH	CHECKED BY: NS

FIGURE NO.  
**E-35-C**

COPYRIGHT © 2014 BY ENGEO INCORPORATED. THIS DOCUMENT MAY NOT BE REPRODUCED IN WHOLE OR IN PART BY ANY MEANS WHATSOEVER, NOR MAY IT BE QUOTED OR EXCERPTED WITHOUT THE EXPRESS WRITTEN CONSENT OF ENGEO INCORPORATED.

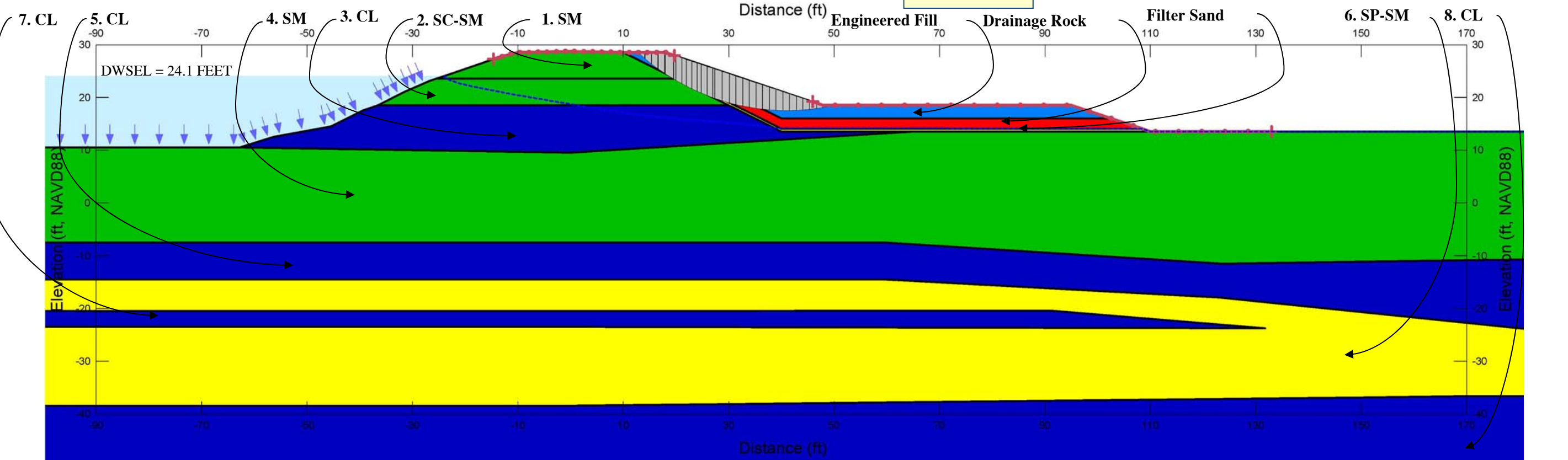
### WATERSIDE RAPID DRAWDOWN

FS = 1.8



### LANDSIDE STEADY STATE SEEPAGE - 200 YEAR

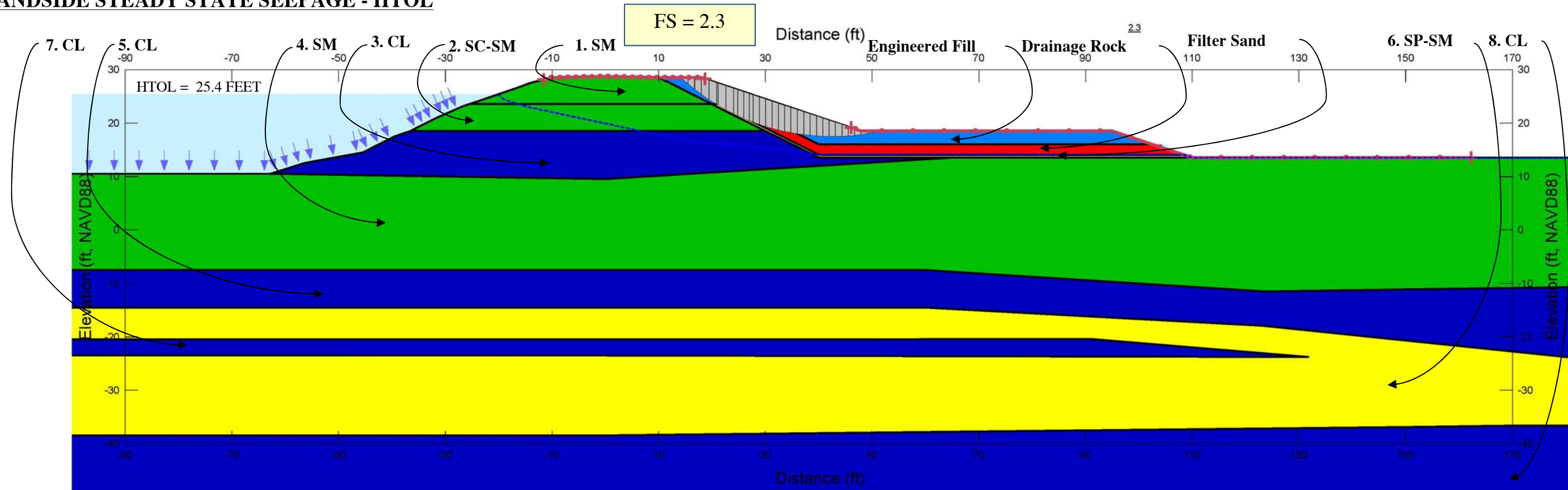
FS = 2.3



	STATIC SLOPE STABILITY ANALYSIS REACH J1A - STA 516+00 RECLAMATION DISTRICT NO. 17 SAN JOAQUIN COUNTY, CALIFORNIA		PROJECT NO.: 5747.005.000	FIGURE NO. <b>E-35-D</b>
			SCALE: NO SCALE	
			DRAWN BY: MH    CHECKED BY: NS	

COPYRIGHT © 2014 BY ENGEO INCORPORATED. THIS DOCUMENT MAY NOT BE REPRODUCED IN WHOLE OR IN PART BY ANY MEANS WHATSOEVER, NOR MAY IT BE QUOTED OR EXCERPTED WITHOUT THE EXPRESS WRITTEN CONSENT OF ENGEO INCORPORATED.

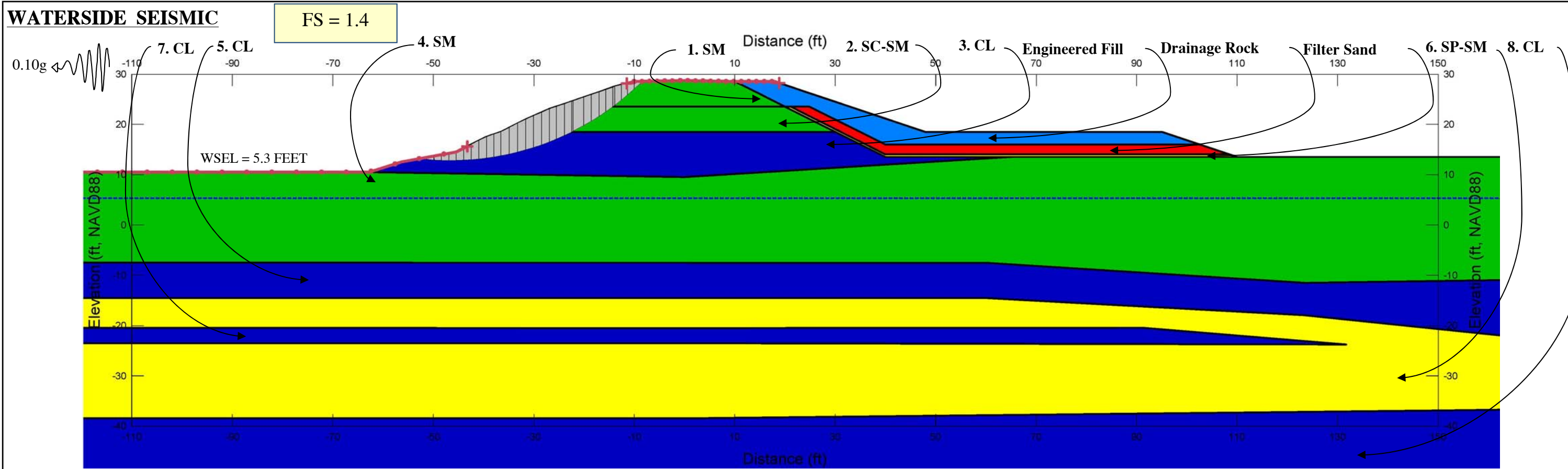
**LANDSIDE STEADY STATE SEEPAGE - HTOL**



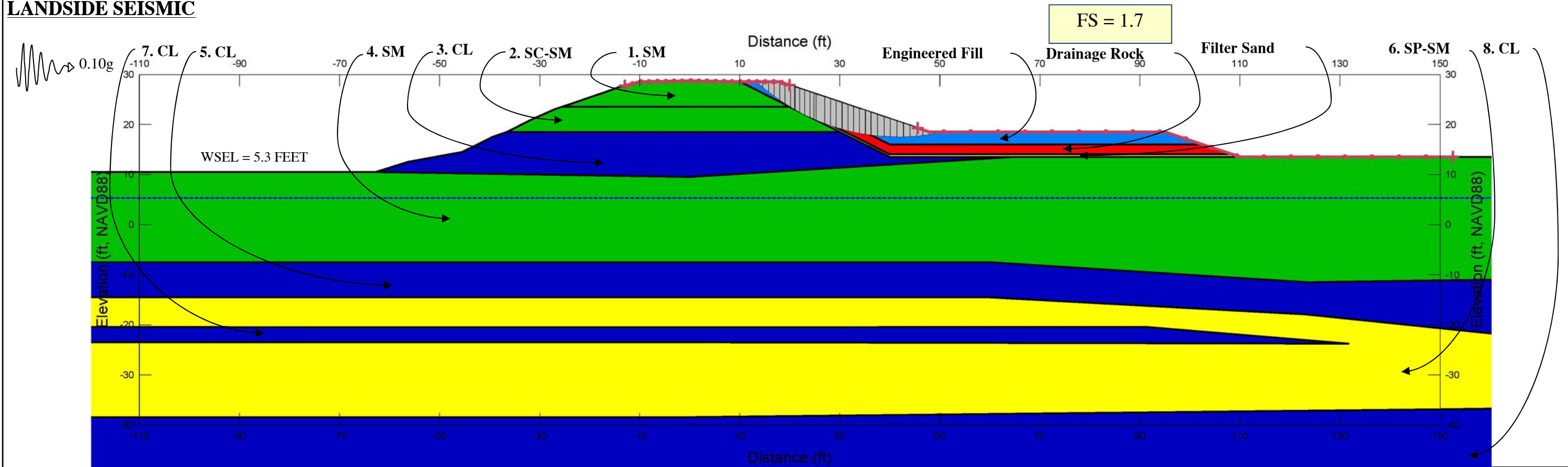
	STATIC SLOPE STABILITY ANALYSIS REACH J1A - STA 516+00 RECLAMATION DISTRICT NO. 17 SAN JOAQUIN COUNTY, CALIFORNIA		PROJECT NO.: 5747.005.000	FIGURE NO.  <b>E-35-E</b>
			SCALE: NO SCALE	
			DRAWN BY: MH   CHECKED BY: NS	

COPYRIGHT © 2014 BY ENGEO INCORPORATED. THIS DOCUMENT MAY NOT BE REPRODUCED IN WHOLE OR IN PART BY ANY MEANS WHATSOEVER, NOR MAY IT BE QUOTED OR EXCERPTED WITHOUT THE EXPRESS WRITTEN CONSENT OF ENGEO INCORPORATED.

### WATERSIDE SEISMIC



### LANDSIDE SEISMIC



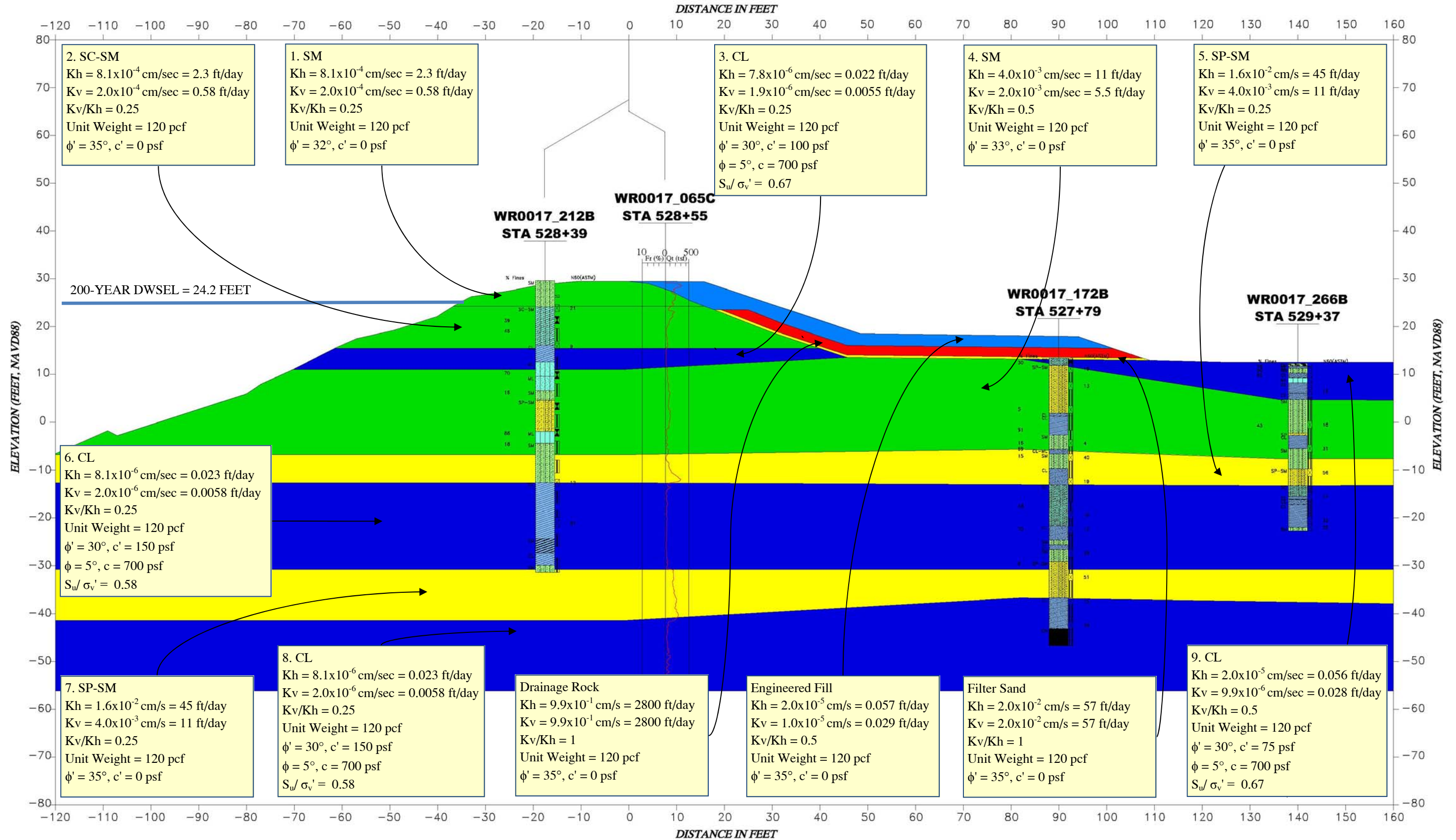
SEISMIC SLOPE STABILITY ANALYSIS  
 REACH J1A - STA 516+00  
 RECLAMATION DISTRICT NO. 17  
 SAN JOAQUIN COUNTY, CALIFORNIA

PROJECT NO.: 5747.005.000	
SCALE:	NO SCALE
DRAWN BY:	MH
CHECKED BY:	NS

FIGURE NO.  
**E-35-F**

# WATERSIDE

# LANDSIDE

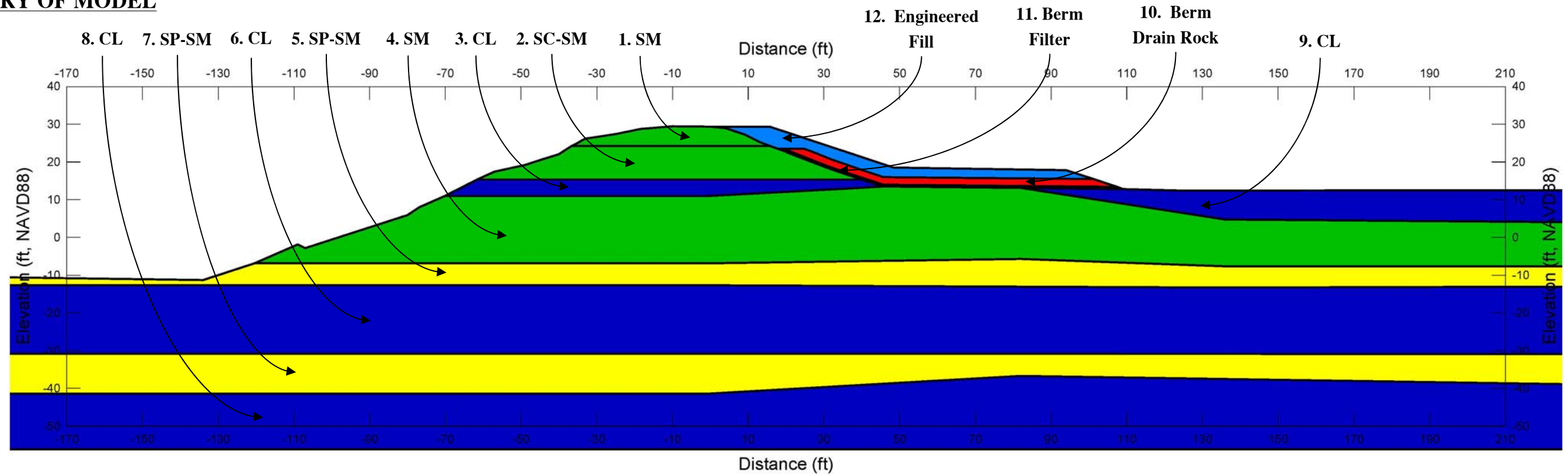


COPYRIGHT © 2014 BY ENGEO INCORPORATED. THIS DOCUMENT MAY NOT BE REPRODUCED IN WHOLE OR IN PART BY ANY MEANS WHATSOEVER WITHOUT THE EXPRESS WRITTEN CONSENT OF ENGEO INCORPORATED.

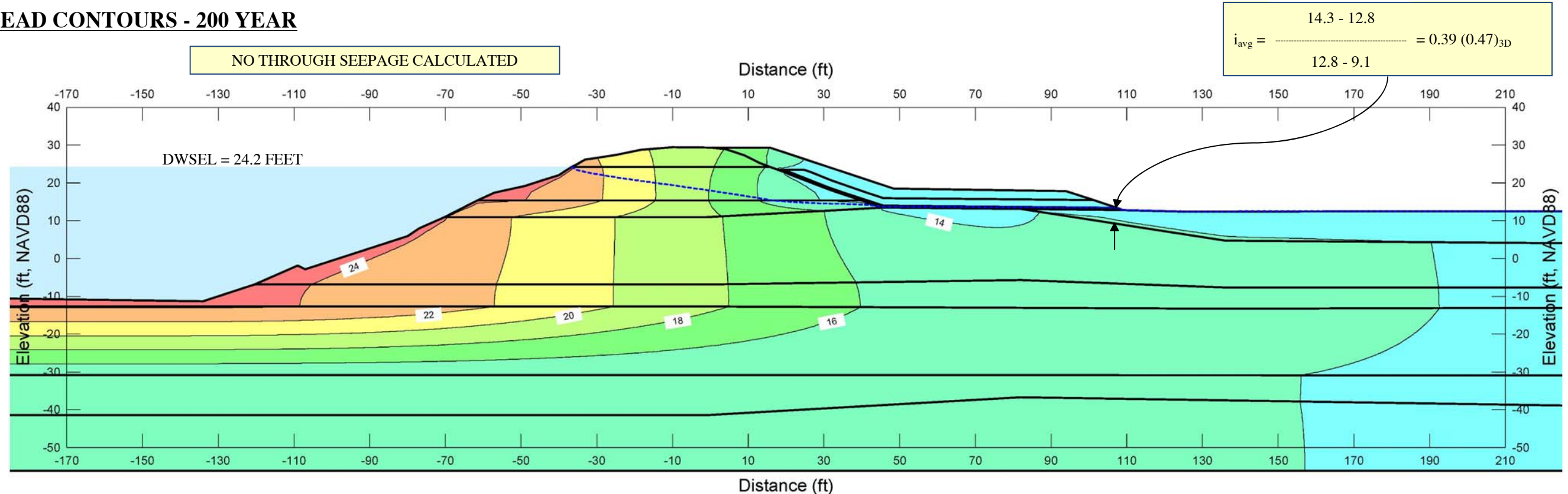
<p>Expect Excellence</p>	<b>CROSS SECTION &amp; MATERIAL PARAMETERS</b>		PROJECT NO.: 5747.005.000	FIGURE NO.	
	REACH JIB - STA 528+45 RECLAMATION DISTRICT NO. 17 SAN JOAQUIN COUNTY, CALIFORNIA			SCALE: NO SCALE	<h2>E-36-A</h2>
			DRAWN BY: ZH	CHECKED BY: AL	

COPYRIGHT © 2014 BY ENGEO INCORPORATED. THIS DOCUMENT MAY NOT BE REPRODUCED IN WHOLE OR IN PART BY ANY MEANS WHATSOEVER, NOR MAY IT BE QUOTED OR EXCERPTED WITHOUT THE EXPRESS WRITTEN CONSENT OF ENGEO INCORPORATED.

**GEOMETRY OF MODEL**



**TOTAL HEAD CONTOURS - 200 YEAR**

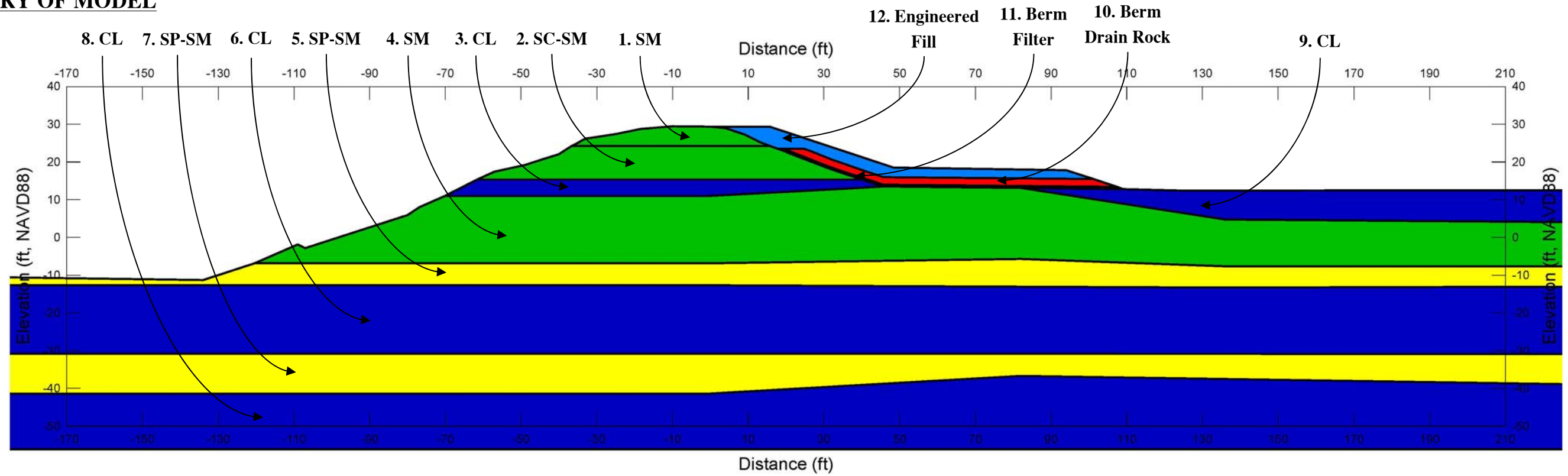


Note: 3D seepage effects are accounted for.

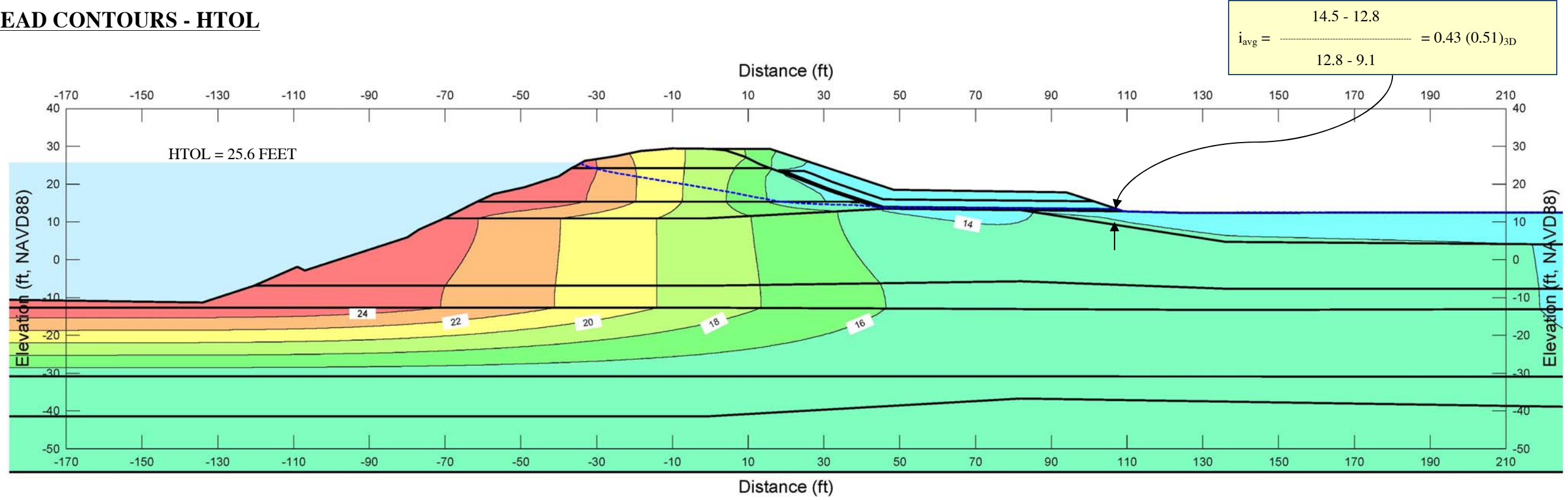
	SEEPAGE ANALYSIS REACH JIB - STA 528+45 RECLAMATION DISTRICT NO. 17 SAN JOAQUIN COUNTY, CALIFORNIA		PROJECT NO.: 5747.005.000	FIGURE NO. E-36-B
			SCALE: NO SCALE	
			DRAWN BY: AL	CHECKED BY: NS

COPYRIGHT © 2014 BY ENGEO INCORPORATED. THIS DOCUMENT MAY NOT BE REPRODUCED IN WHOLE OR IN PART BY ANY MEANS WHATSOEVER, NOR MAY IT BE QUOTED OR EXCERPTED WITHOUT THE EXPRESS WRITTEN CONSENT OF ENGEO INCORPORATED.

**GEOMETRY OF MODEL**



**TOTAL HEAD CONTOURS - HTOL**



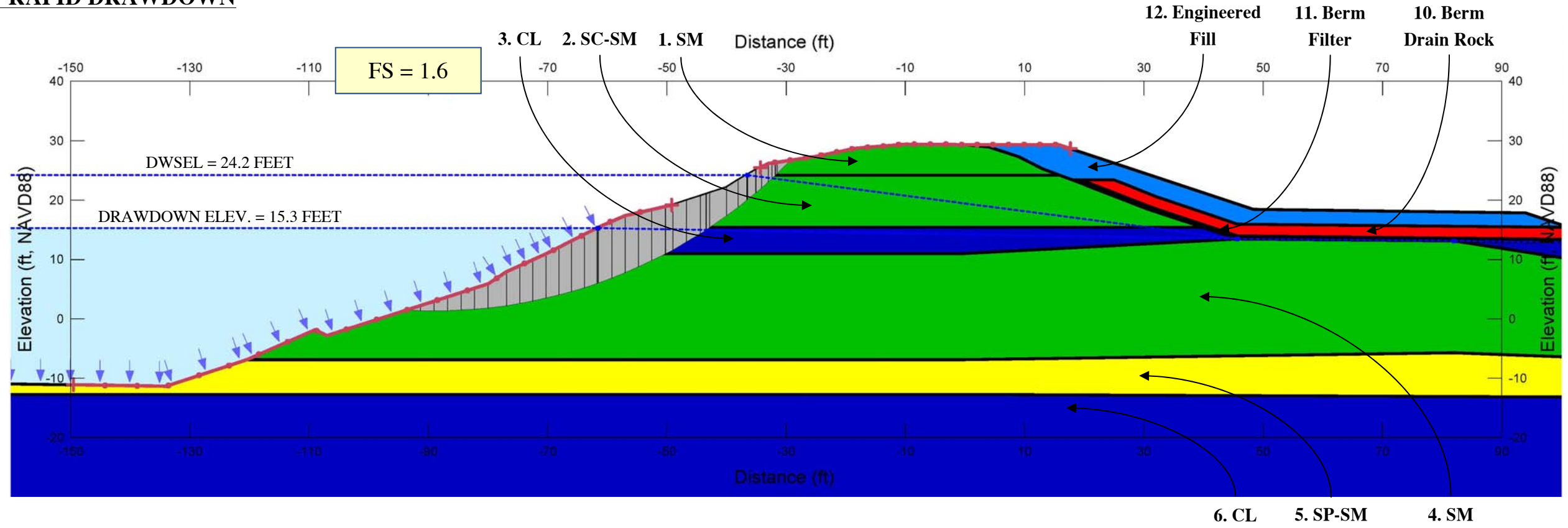
Note: 3D seepage effects are accounted for.

	SEEPAGE ANALYSIS REACH JIB - STA 528+45 RECLAMATION DISTRICT NO. 17 SAN JOAQUIN COUNTY, CALIFORNIA		PROJECT NO.: 5747.005.000	FIGURE NO. E-36-C
			SCALE: NO SCALE	
			DRAWN BY: AL	CHECKED BY: NS

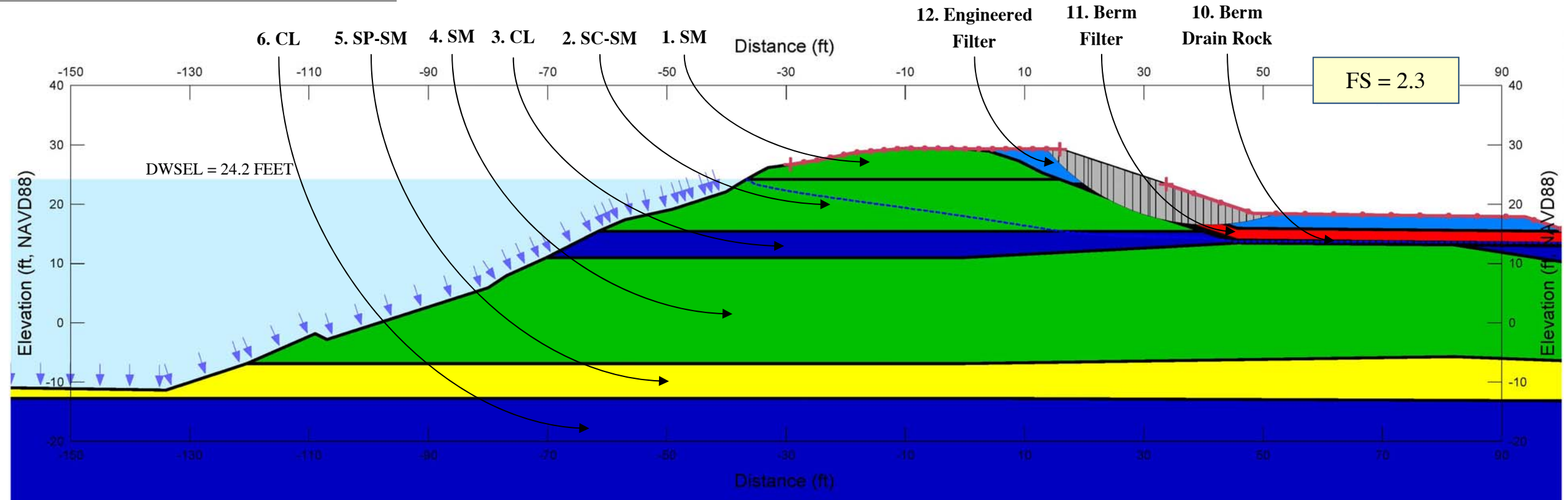


COPYRIGHT © 2014 BY ENGEO INCORPORATED. THIS DOCUMENT MAY NOT BE REPRODUCED IN WHOLE OR IN PART BY ANY MEANS WHATSOEVER, NOR MAY IT BE QUOTED OR EXCERPTED WITHOUT THE EXPRESS WRITTEN CONSENT OF ENGEO INCORPORATED.

### WATERSIDE RAPID DRAWDOWN



### LANDSIDE STEADY STATE SEEPAGE - 200 YEAR



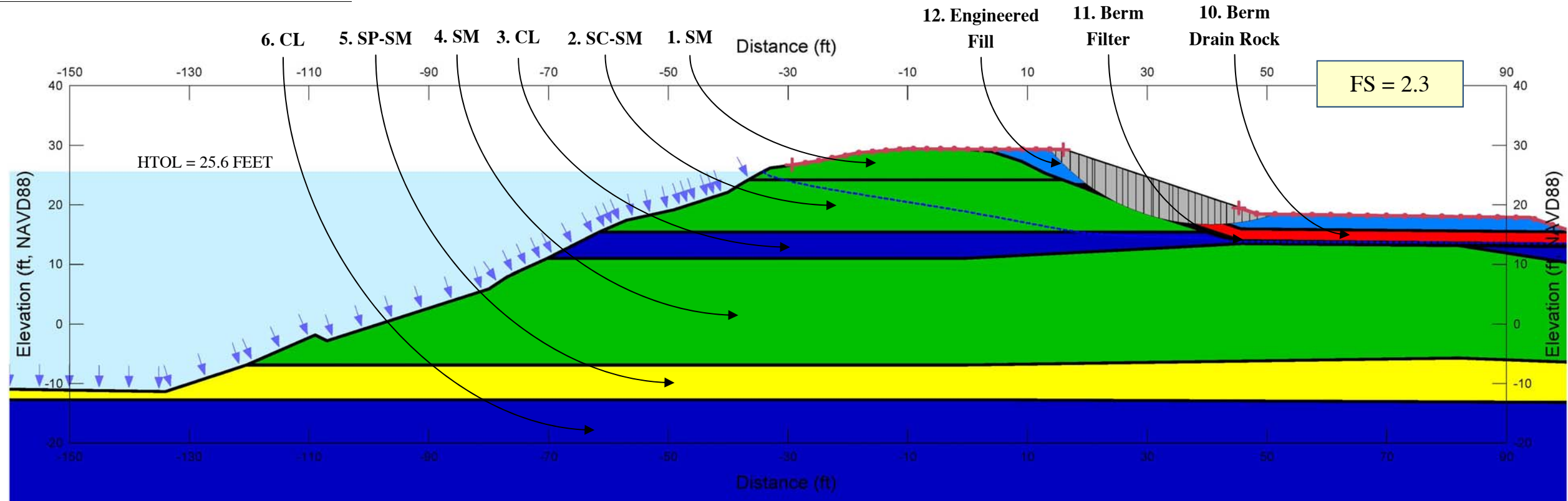
STATIC SLOPE STABILITY ANALYSIS  
REACH JIB - STA 528+45  
RECLAMATION DISTRICT NO. 17  
SAN JOAQUIN COUNTY, CALIFORNIA

PROJECT NO.: 5747.005.000	
SCALE: NO SCALE	
DRAWN BY: AL	CHECKED BY: NS

FIGURE NO.  
**E-36-D**

COPYRIGHT © 2014 BY ENGEO INCORPORATED. THIS DOCUMENT MAY NOT BE REPRODUCED IN WHOLE OR IN PART BY ANY MEANS WHATSOEVER, NOR MAY IT BE QUOTED OR EXCERPTED WITHOUT THE EXPRESS WRITTEN CONSENT OF ENGEO INCORPORATED.

### LANDSIDE STEADY STATE SEEPAGE - HTOL

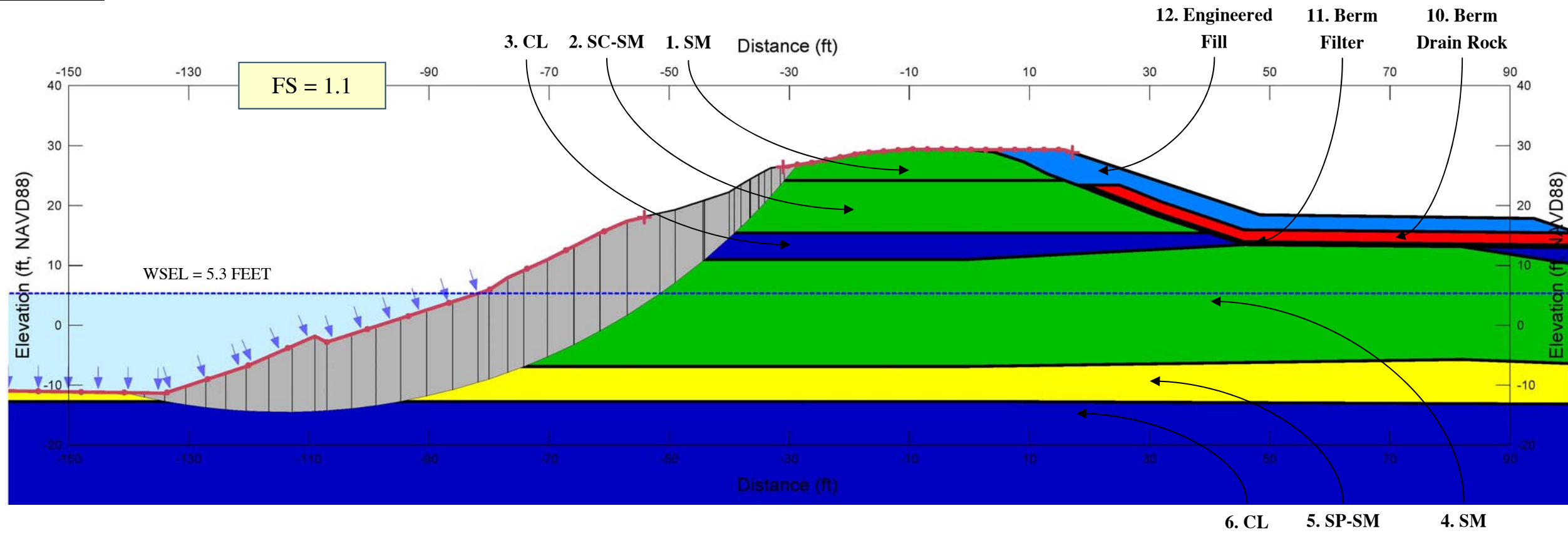
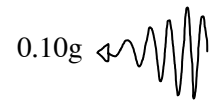


STATIC SLOPE STABILITY ANALYSIS  
REACH J1B - STA 528+45  
RECLAMATION DISTRICT NO. 17  
SAN JOAQUIN COUNTY, CALIFORNIA

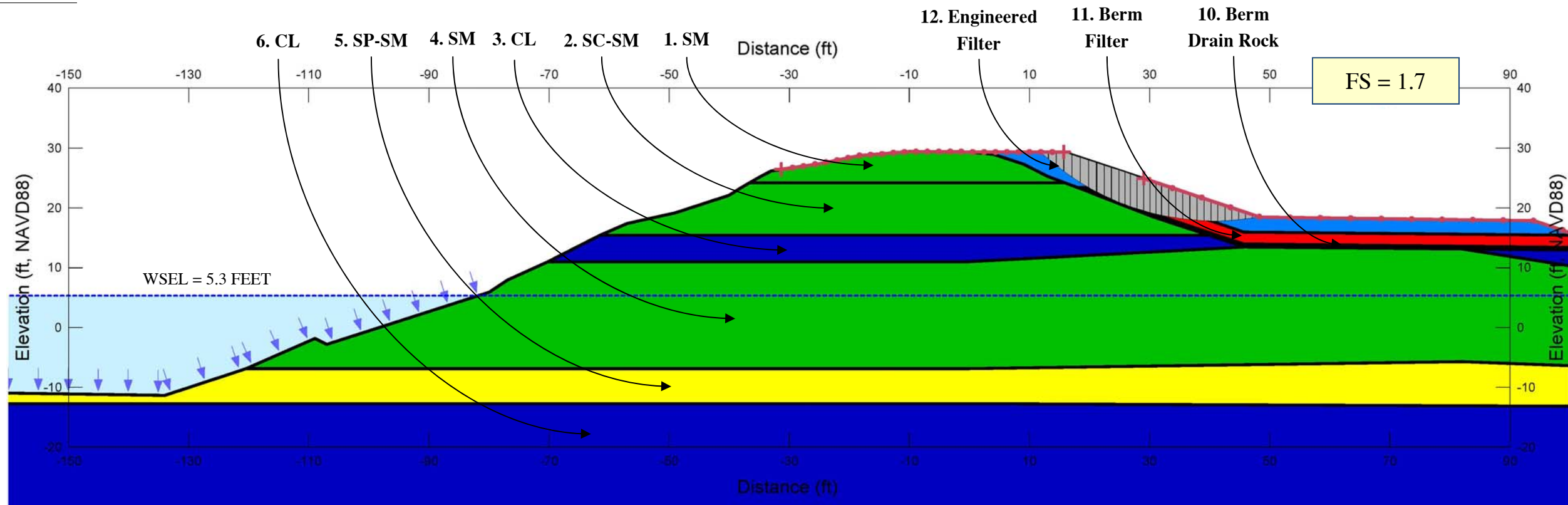
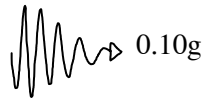
PROJECT NO.: 5747.005.000	
SCALE: NO SCALE	
DRAWN BY: AL	CHECKED BY: NS

FIGURE NO.  
E-36-E

# WATERSIDE SEISMIC



# LANDSIDE SEISMIC

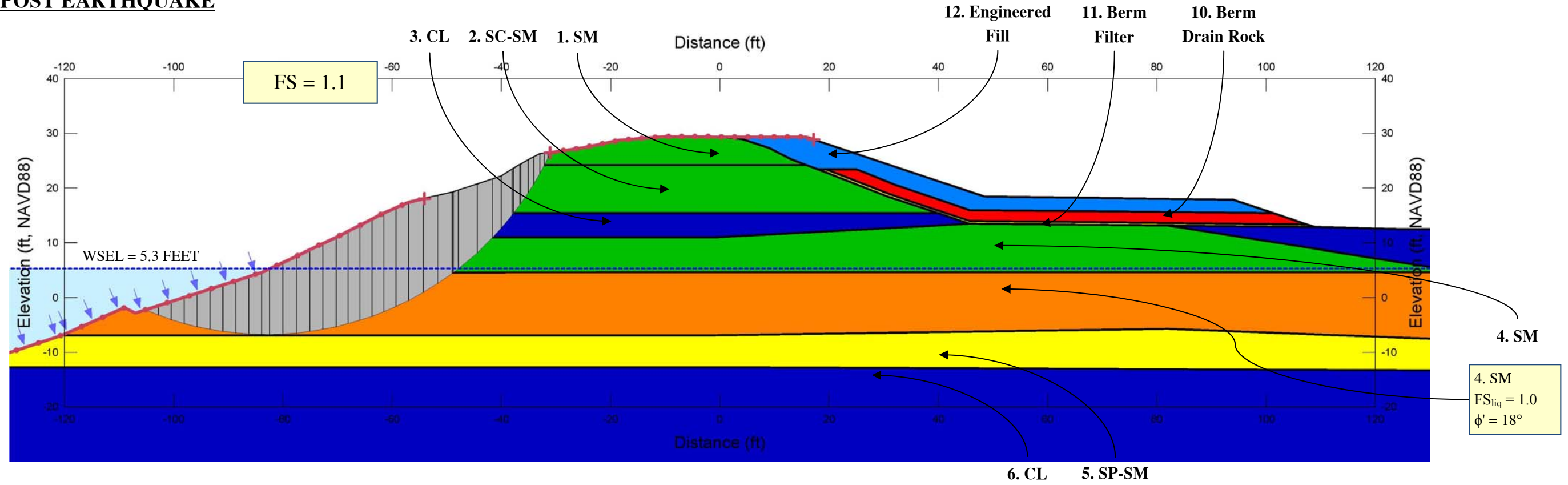


COPYRIGHT © 2014 BY ENGEO INCORPORATED. THIS DOCUMENT MAY NOT BE REPRODUCED IN WHOLE OR IN PART BY ANY MEANS WHATSOEVER, NOR MAY IT BE QUOTED OR EXCERPTED WITHOUT THE EXPRESS WRITTEN CONSENT OF ENGEO INCORPORATED.

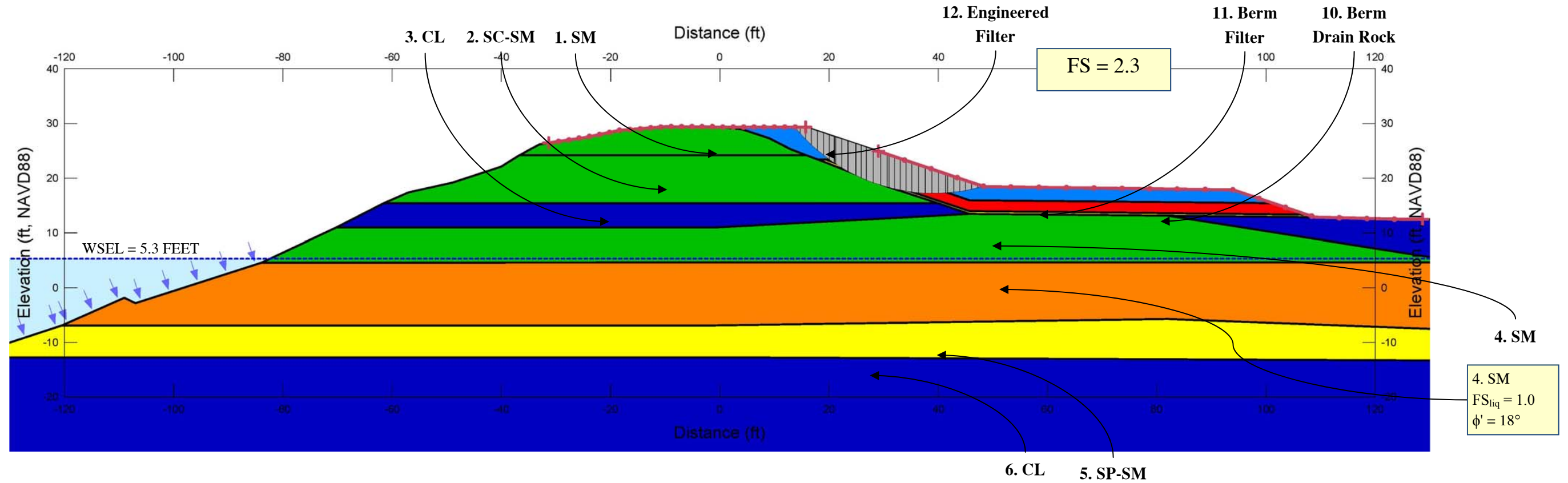
	SEISMIC SLOPE STABILITY ANALYSIS		PROJECT NO.: 5747.005.000	FIGURE NO. <b>E-36-F</b>
	REACH JIB - STA 528+45		SCALE: NO SCALE	
	RECLAMATION DISTRICT NO. 17		DRAWN BY: AL	
SAN JOAQUIN COUNTY, CALIFORNIA				

COPYRIGHT © 2014 BY ENGEO INCORPORATED. THIS DOCUMENT MAY NOT BE REPRODUCED IN WHOLE OR IN PART BY ANY MEANS WHATSOEVER WITHOUT THE EXPRESS WRITTEN CONSENT OF ENGEO INCORPORATED.

### WATERSIDE POST EARTHQUAKE



### LANDSIDE POST EARTHQUAKE

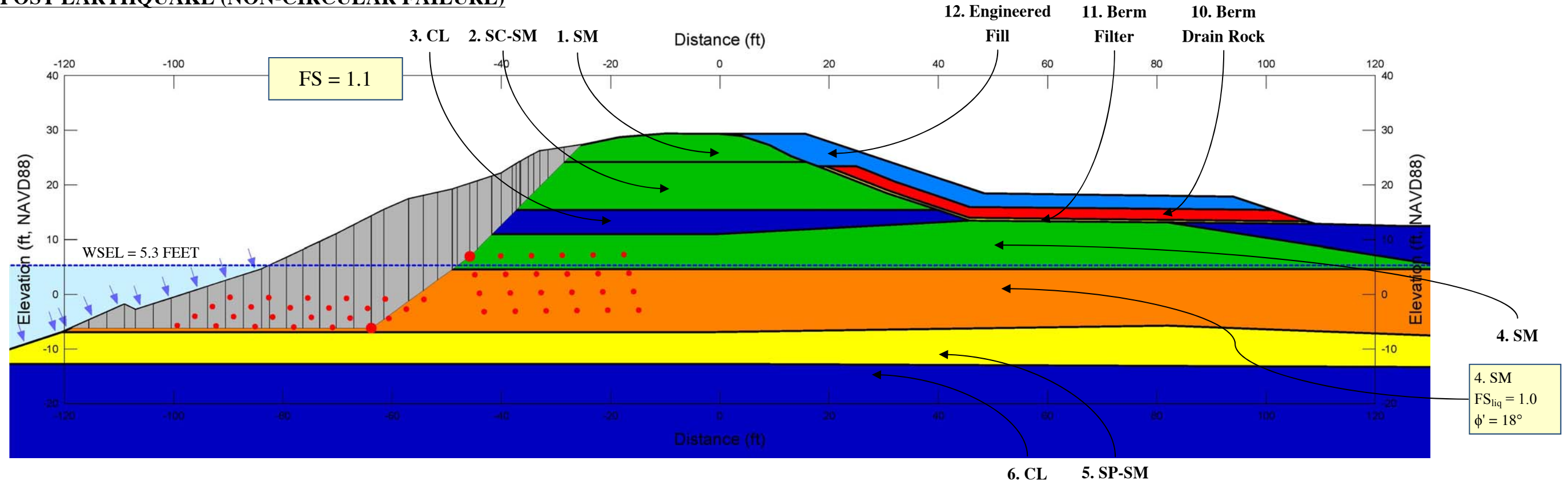


SEISMIC SLOPE STABILITY ANALYSIS  
REACH JIB - STA 528+45  
RECLAMATION DISTRICT NO. 17  
SAN JOAQUIN COUNTY, CALIFORNIA

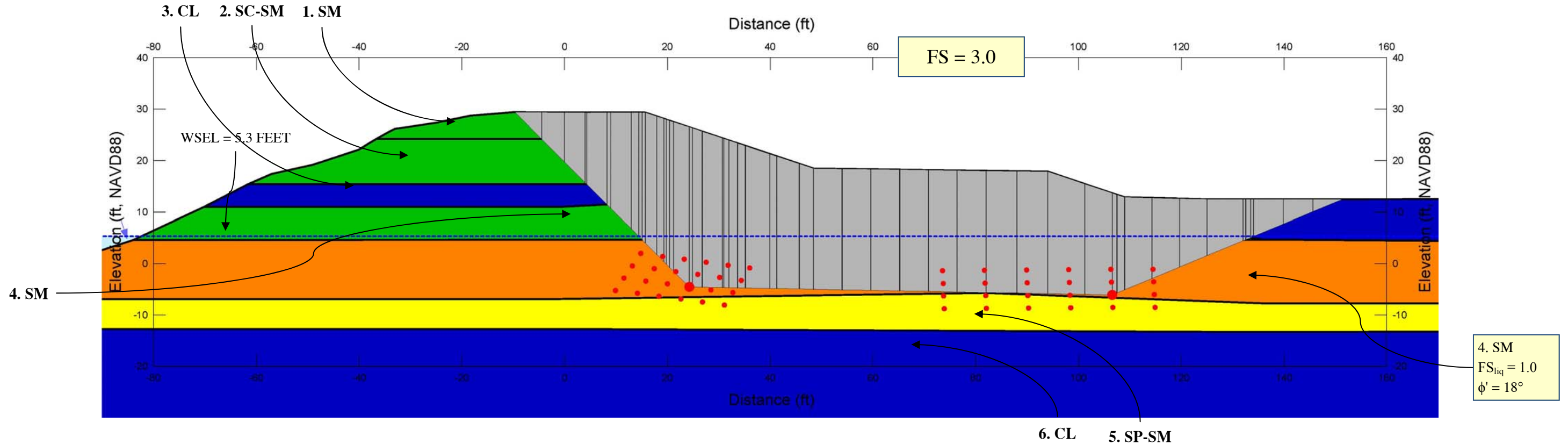
PROJECT NO.: 5747.005.000		FIGURE NO. <b>E-36-G</b>
SCALE: NO SCALE		
DRAWN BY: BA	CHECKED BY: CC	


COPYRIGHT © 2014 BY ENGEO INCORPORATED. THIS DOCUMENT MAY NOT BE REPRODUCED IN WHOLE OR IN PART BY ANY MEANS WHATSOEVER WITHOUT THE EXPRESS WRITTEN CONSENT OF ENGEO INCORPORATED.

**WATERSIDE POST EARTHQUAKE (NON-CIRCULAR FAILURE)**



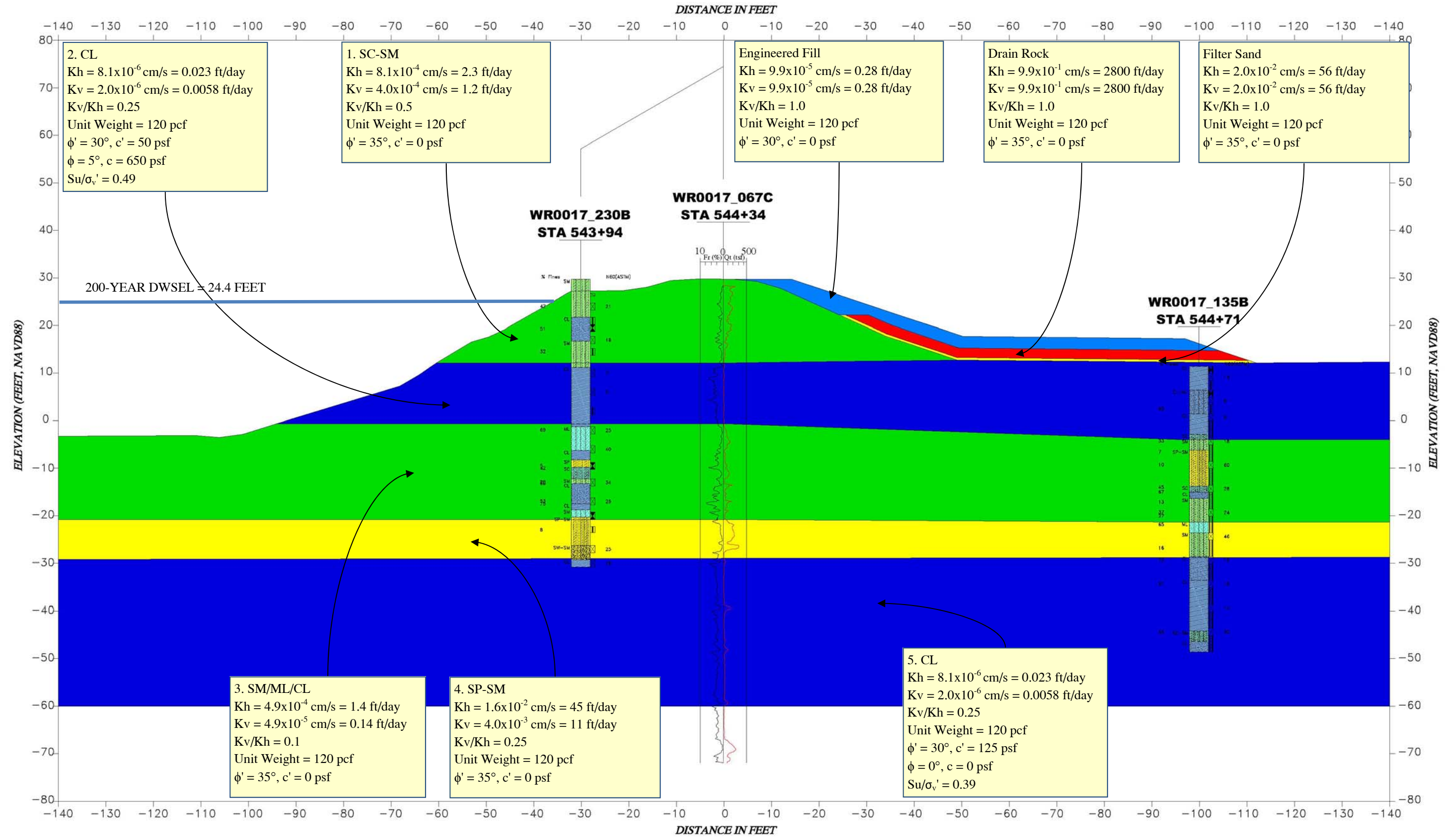
**LANDSIDE POST EARTHQUAKE (NON-CIRCULAR FAILURE)**



 <p>Expect Excellence</p>	SEISMIC SLOPE STABILITY ANALYSIS REACH JIB - STA 528+45 RECLAMATION DISTRICT NO. 17 SAN JOAQUIN COUNTY, CALIFORNIA		PROJECT NO.: 5747.005.000	FIGURE NO. <b>E-36-H</b>
	SCALE: NO SCALE		DRAWN BY: BA	
	CHECKED BY: CC			

WATERSIDE

LANDSIDE



COPYRIGHT © 2014 BY ENGEO INCORPORATED. THIS DOCUMENT MAY NOT BE REPRODUCED IN WHOLE OR IN PART BY ANY MEANS WHATSOEVER, NOR MAY IT BE QUOTED OR EXCERPTED WITHOUT THE EXPRESS WRITTEN CONSENT OF ENGEO INCORPORATED.

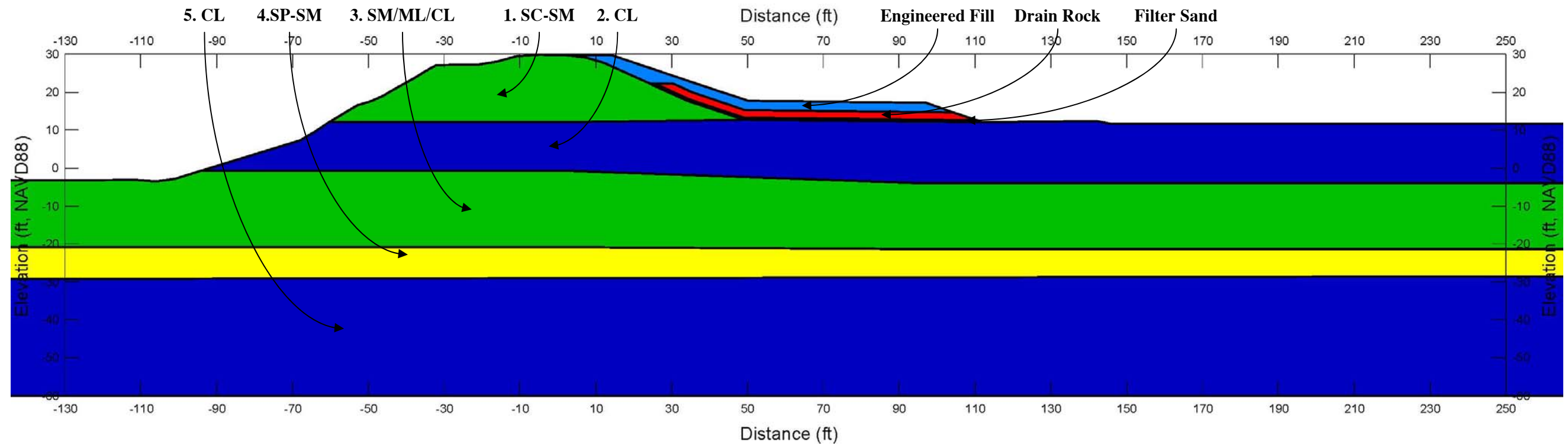


CROSS SECTION & MATERIAL PARAMETERS  
REACH J2 & J3A - STA 544+33  
RECLAMATION DISTRICT NO. 17  
SAN JOAQUIN COUNTY, CALIFORNIA

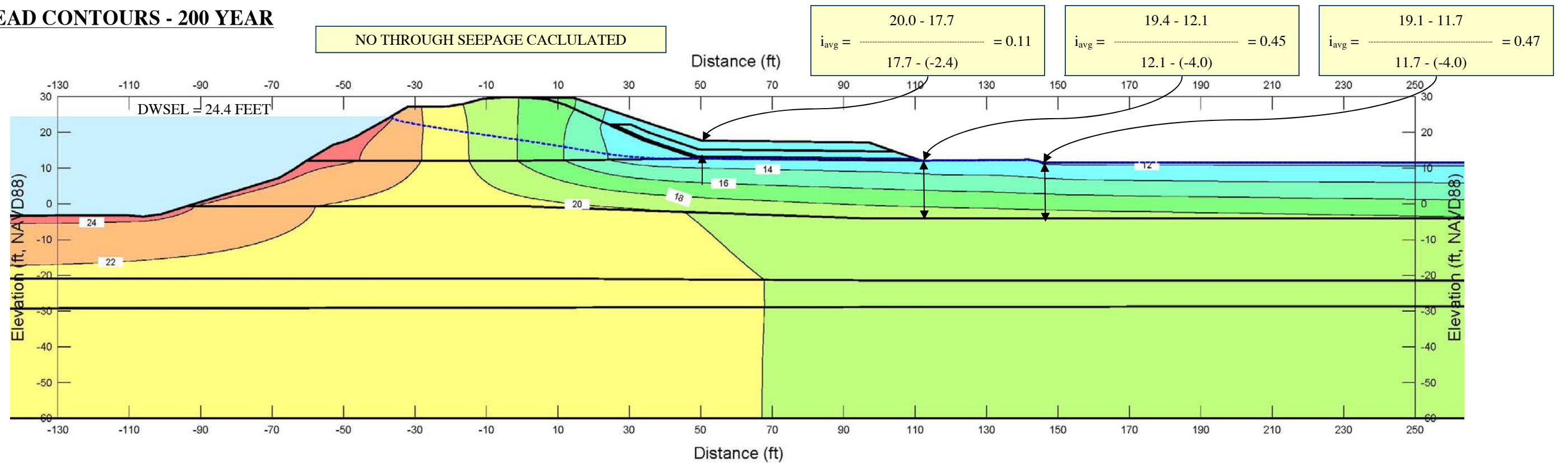
PROJECT NO.: 5747.005.000	
SCALE:	NO SCALE
DRAWN BY:	ZH
CHECKED BY:	NS

FIGURE NO.  
E-37-A

**GEOMETRY OF MODEL**



**TOTAL HEAD CONTOURS - 200 YEAR**



COPYRIGHT © 2014 BY ENGEO INCORPORATED. THIS DOCUMENT MAY NOT BE REPRODUCED IN WHOLE OR IN PART BY ANY MEANS WHATSOEVER, NOR MAY IT BE QUOTED OR EXCERPTED WITHOUT THE EXPRESS WRITTEN CONSENT OF ENGEO INCORPORATED.

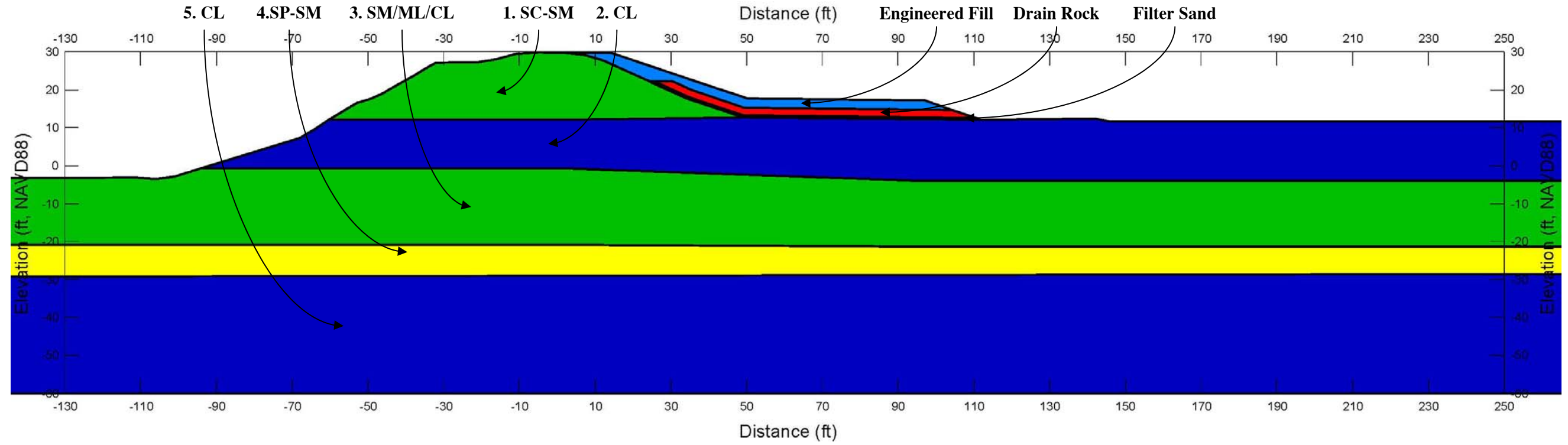


SEEPAGE ANALYSIS  
 REACH J2 & J3A - STA 544+33  
 RECLAMATION DISTRICT NO. 17  
 SAN JOAQUIN COUNTY, CALIFORNIA

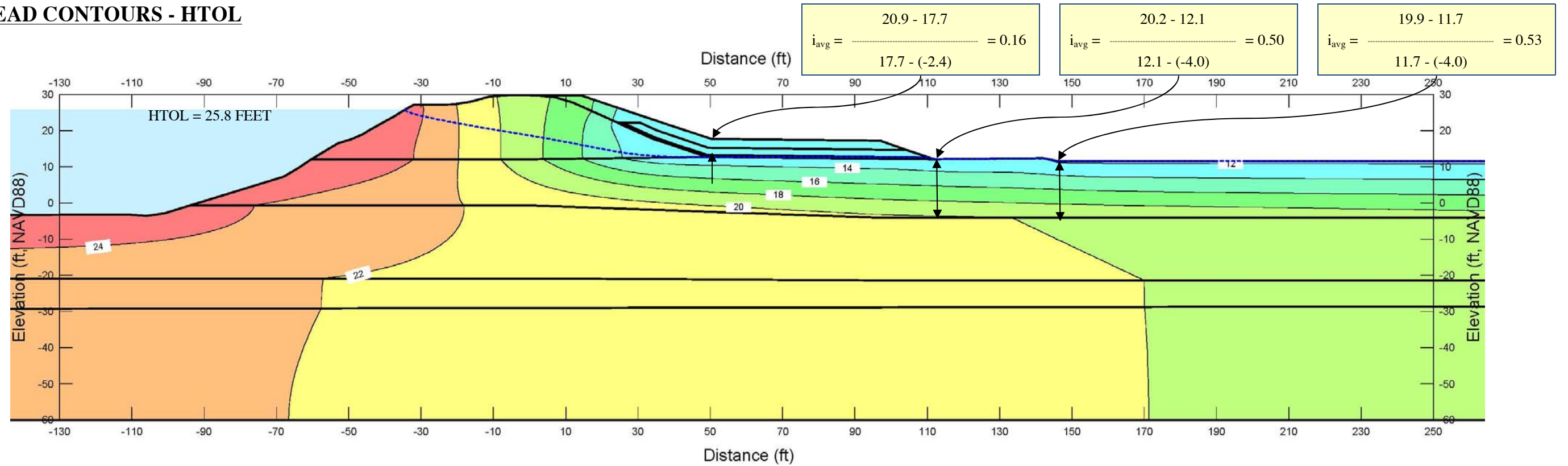
PROJECT NO.: 5747.005.000	
SCALE: NO SCALE	
DRAWN BY: ZR	CHECKED BY: NS

FIGURE NO.  
**E-37-B**

**GEOMETRY OF MODEL**



**TOTAL HEAD CONTOURS - HTOL**



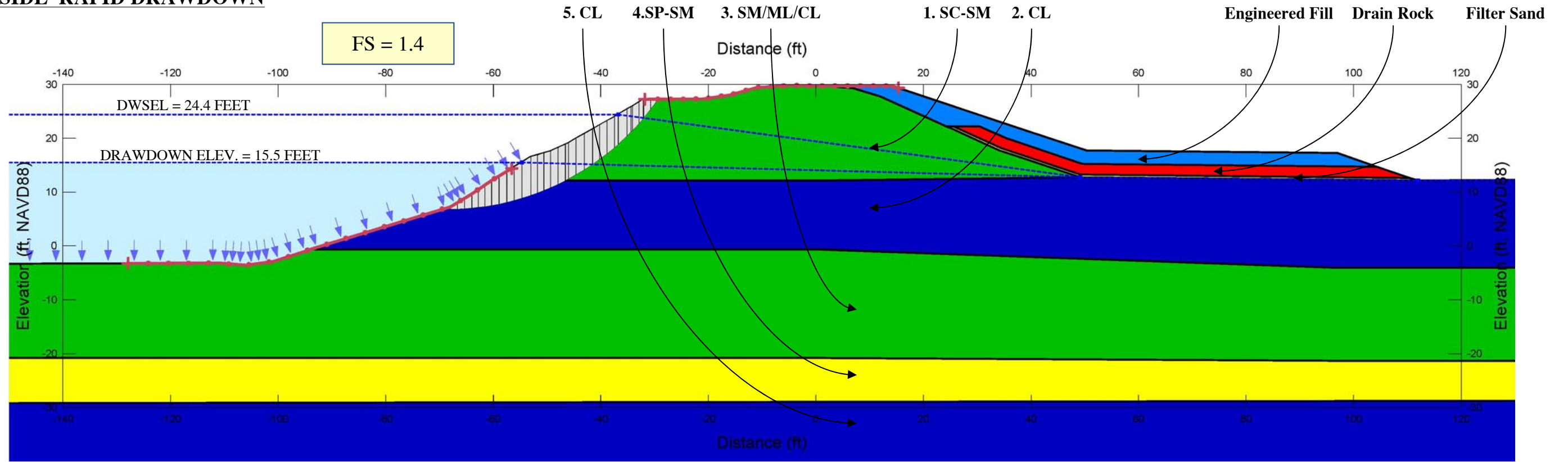
COPYRIGHT © 2014 BY ENGEO INCORPORATED. THIS DOCUMENT MAY NOT BE REPRODUCED IN WHOLE OR IN PART BY ANY MEANS WHATSOEVER, NOR MAY IT BE QUOTED OR EXCERPTED WITHOUT THE EXPRESS WRITTEN CONSENT OF ENGEO INCORPORATED.

	SEEPAGE ANALYSIS REACH J2 & J3A - STA 544+33 RECLAMATION DISTRICT NO. 17 SAN JOAQUIN COUNTY, CALIFORNIA		PROJECT NO.: 5747.005.000	FIGURE NO.  <b>E-37-C</b>
			SCALE: NO SCALE	
			DRAWN BY: ZR    CHECKED BY: NS	

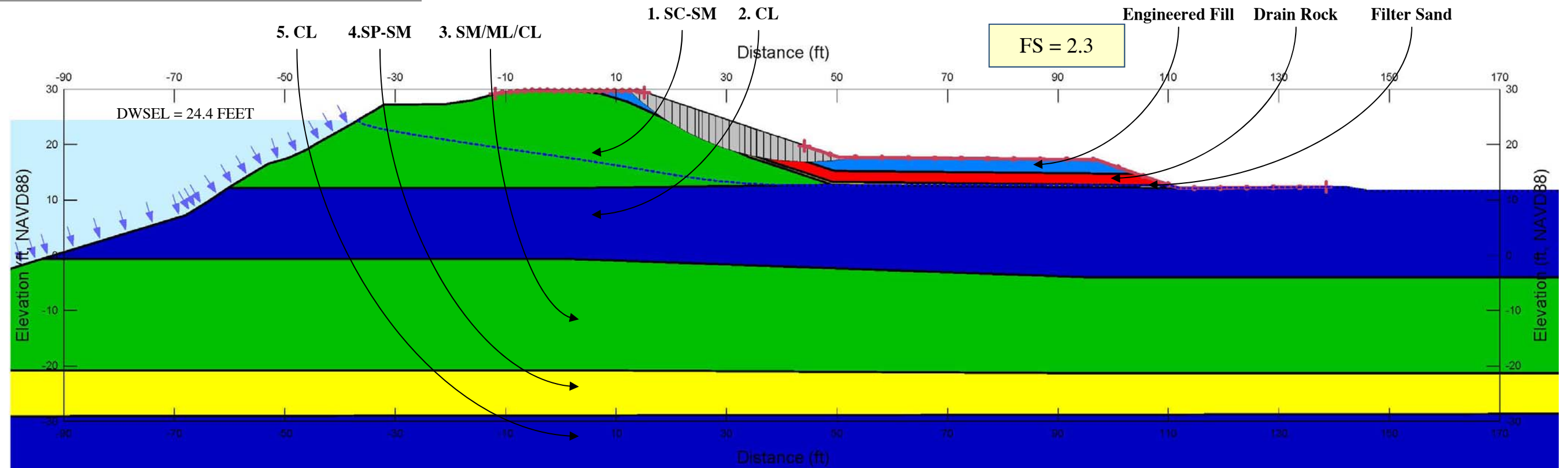


COPYRIGHT © 2014 BY ENGEO INCORPORATED. THIS DOCUMENT MAY NOT BE REPRODUCED IN WHOLE OR IN PART BY ANY MEANS WHATSOEVER, NOR MAY IT BE QUOTED OR EXCERPTED WITHOUT THE EXPRESS WRITTEN CONSENT OF ENGEO INCORPORATED.

### WATERSIDE RAPID DRAWDOWN



### LANDSIDE STEADY STATE SEEPAGE - 200 YEAR



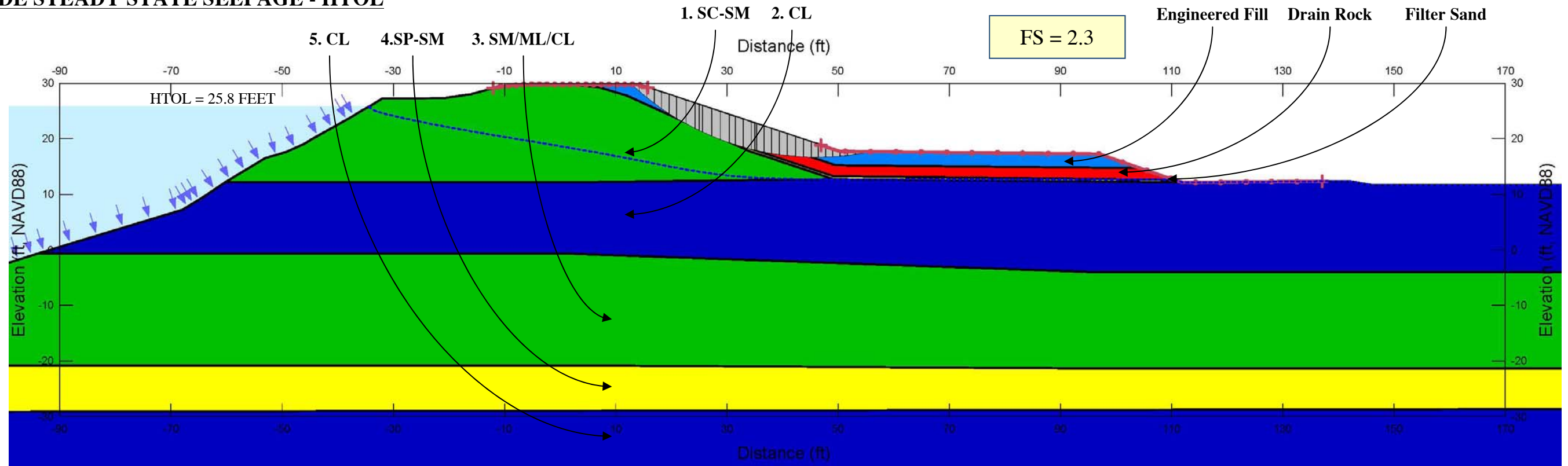
STATIC SLOPE STABILITY ANALYSIS  
 REACH J2 & J3A - STA 544+33  
 RECLAMATION DISTRICT NO. 17  
 SAN JOAQUIN COUNTY, CALIFORNIA

PROJECT NO.: 5747.005.000	
SCALE:	NO SCALE
DRAWN BY:	ZR
CHECKED BY:	NS

FIGURE NO.  
**E-37-D**

COPYRIGHT © 2014 BY ENGEO INCORPORATED. THIS DOCUMENT MAY NOT BE REPRODUCED IN WHOLE OR IN PART BY ANY MEANS WHATSOEVER, NOR MAY IT BE QUOTED OR EXCERPTED WITHOUT THE EXPRESS WRITTEN CONSENT OF ENGEO INCORPORATED.

### LANDSIDE STEADY STATE SEEPAGE - HTOL



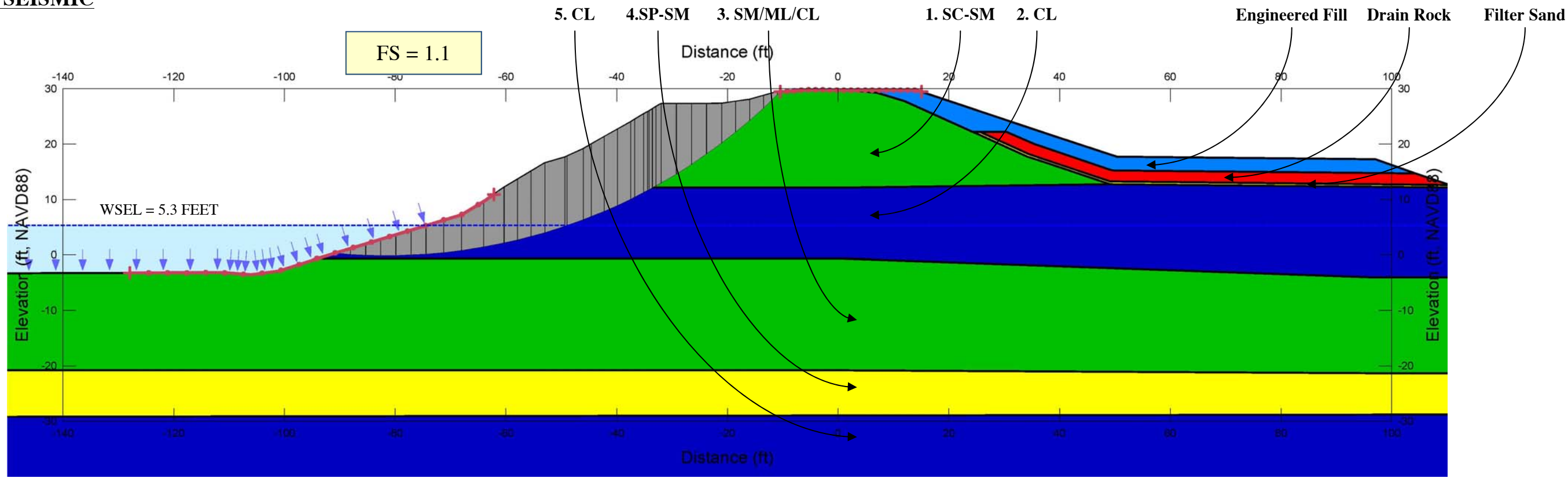
STATIC SLOPE STABILITY ANALYSIS  
 REACH J2 & J3A- STA 544+33  
 RECLAMATION DISTRICT NO. 17  
 SAN JOAQUIN COUNTY, CALIFORNIA

PROJECT NO.: 5747.005.000	
SCALE: NO SCALE	
DRAWN BY: ZR	CHECKED BY: NS

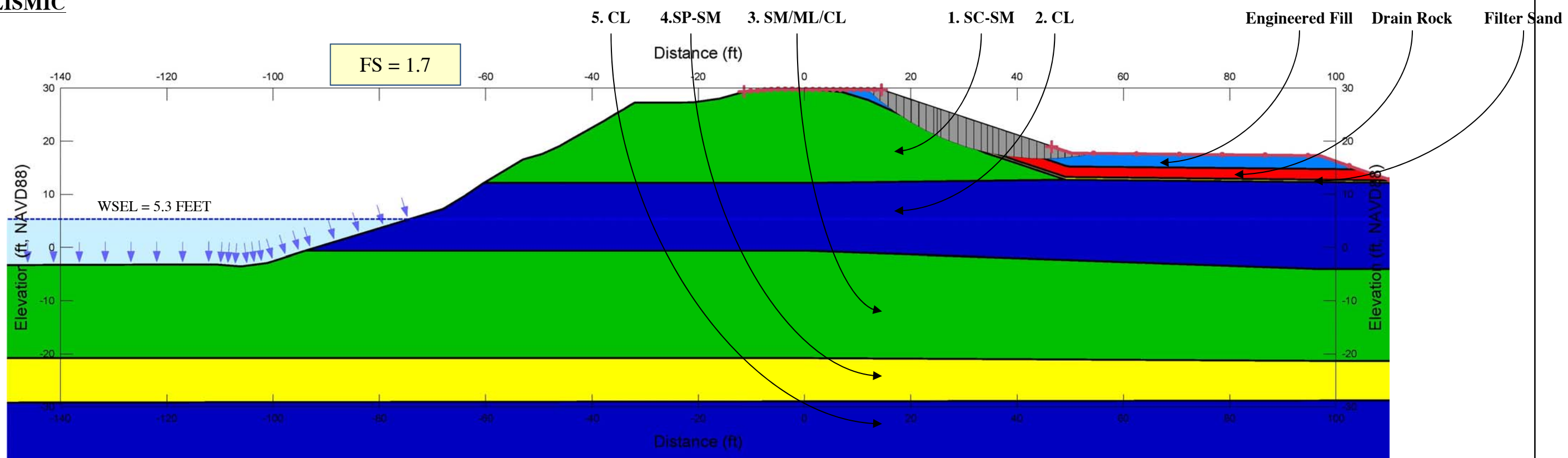
FIGURE NO.  
**E-37-E**

COPYRIGHT © 2014 BY ENGEO INCORPORATED. THIS DOCUMENT MAY NOT BE REPRODUCED IN WHOLE OR IN PART BY ANY MEANS WHATSOEVER, NOR MAY IT BE QUOTED OR EXCERPTED WITHOUT THE EXPRESS WRITTEN CONSENT OF ENGEO INCORPORATED.

### WATERSIDE SEISMIC



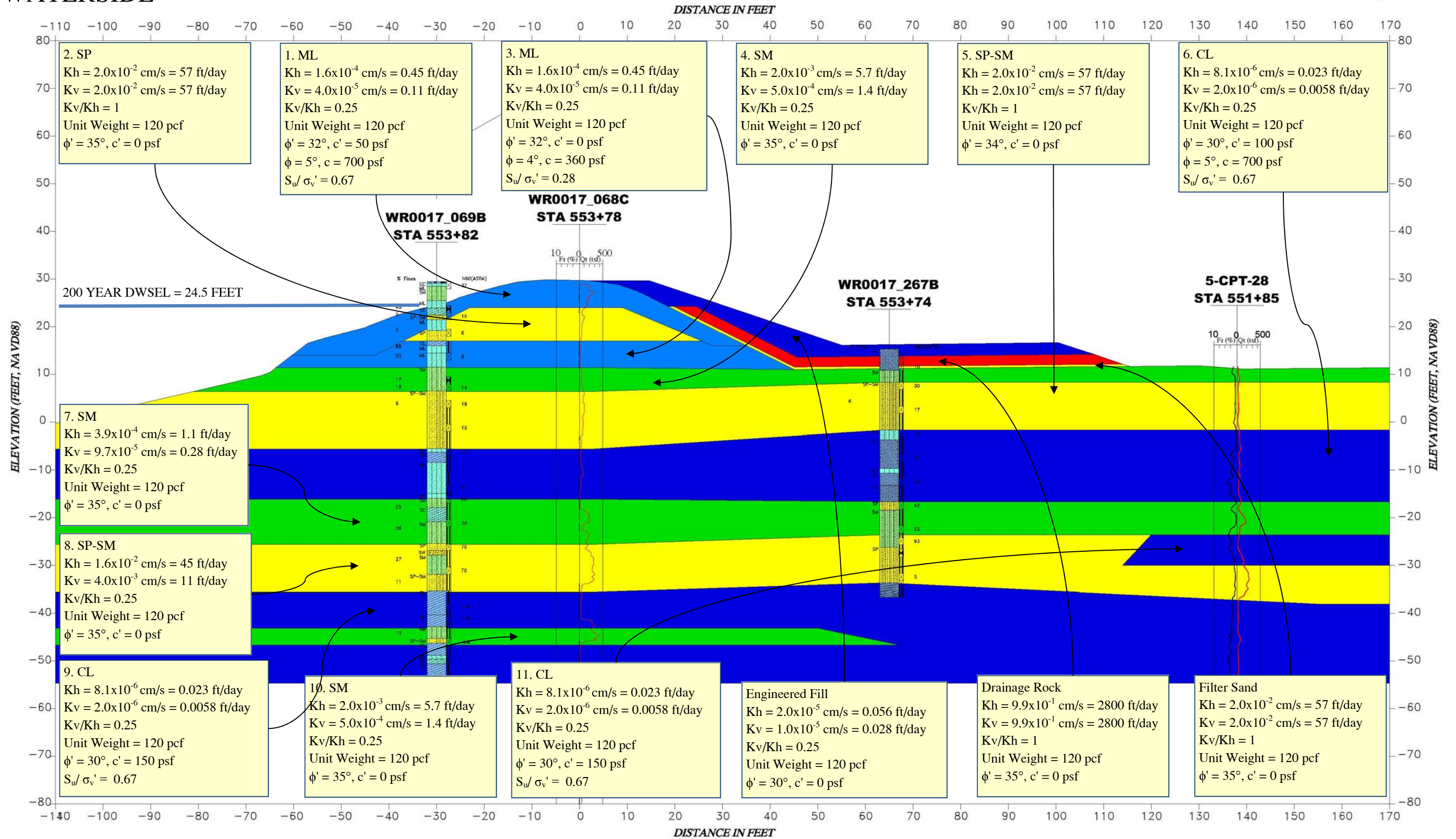
### LANDSIDE SEISMIC



	SEISMIC SLOPE STABILITY ANALYSIS		PROJECT NO.: 5747.005.000	FIGURE NO. <b>E-37-F</b>
	REACH J2 & J3A - STA 544+33		SCALE: NO SCALE	
	RECLAMATION DISTRICT NO. 17 SAN JOAQUIN COUNTY, CALIFORNIA		DRAWN BY: ZR    CHECKED BY: NS	

**WATERSIDE**

**LANDSIDE**



COPYRIGHT © 2014 BY ENGEO INCORPORATED. THIS DOCUMENT MAY NOT BE REPRODUCED IN WHOLE OR IN PART BY ANY MEANS WHATSOEVER, NOR MAY IT BE QUOTED OR EXCERPTED WITHOUT THE EXPRESS WRITTEN CONSENT OF ENGEO INCORPORATED.

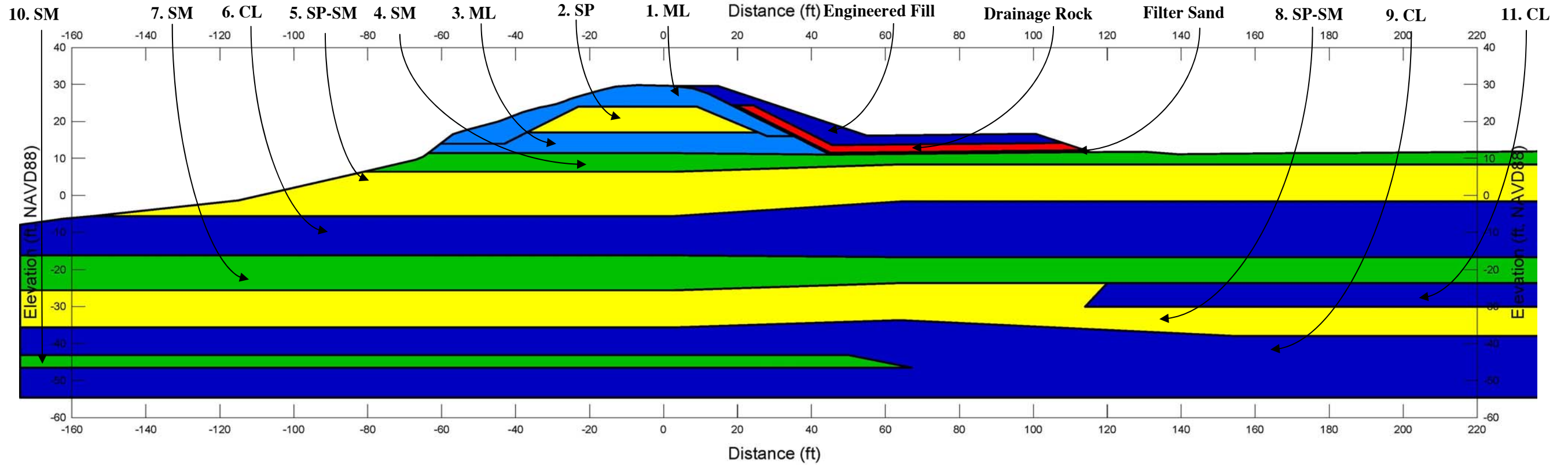


CROSS SECTION & MATERIAL PARAMETERS  
 REACH J3B - STA 553+71  
 RECLAMATION DISTRICT NO. 17  
 SAN JOAQUIN COUNTY, CALIFORNIA

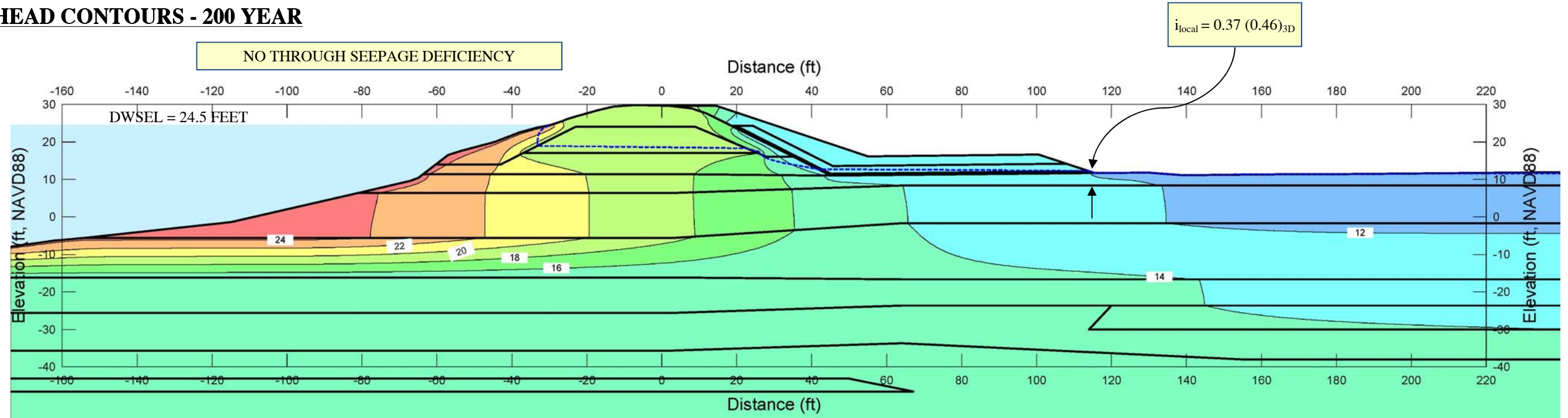
PROJECT NO.: 5747.005.000	
SCALE:	NO SCALE
DRAWN BY:	MH
CHECKED BY:	AL

FIGURE NO.  
**E-38-A**

# GEOMETRY OF MODEL



# TOTAL HEAD CONTOURS - 200 YEAR

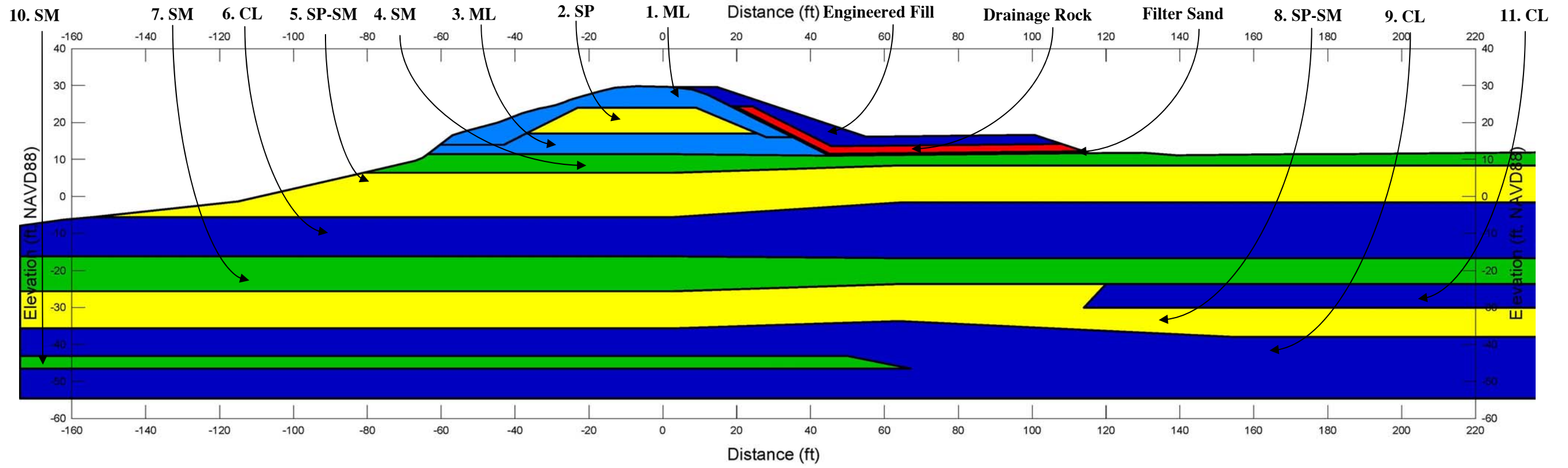


Note: 3D seepage effects are accounted for.

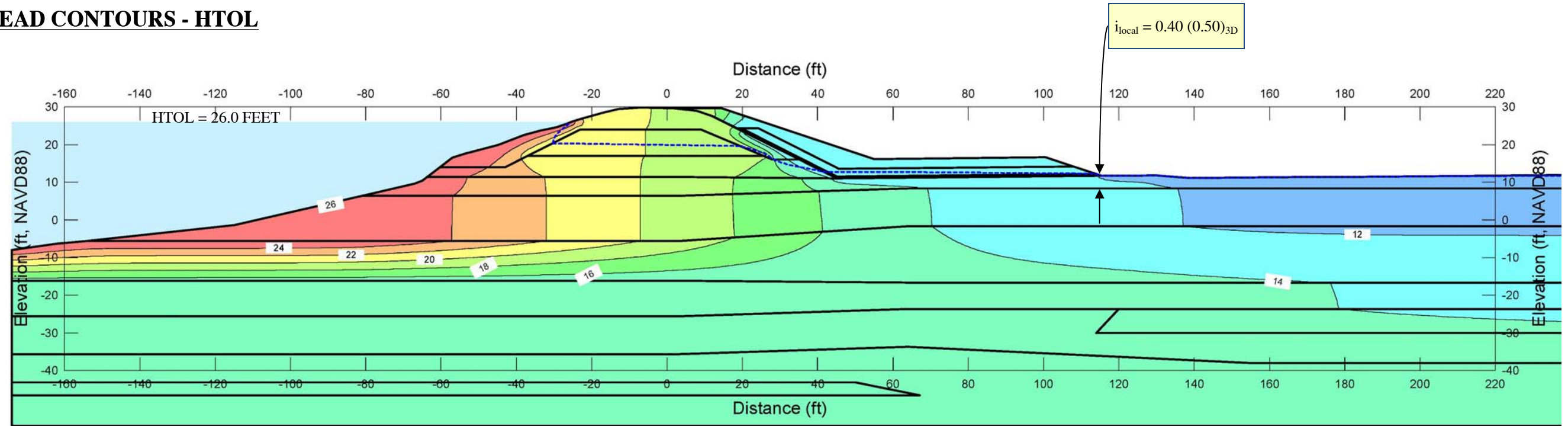
COPYRIGHT © 2014 BY ENGEO INCORPORATED. THIS DOCUMENT MAY NOT BE REPRODUCED IN WHOLE OR IN PART BY ANY MEANS WHATSOEVER, NOR MAY IT BE QUOTED OR EXCERPTED WITHOUT THE EXPRESS WRITTEN CONSENT OF ENGEO INCORPORATED.

	SEEPAGE ANALYSIS REACH J3B - STA 553+71 RECLAMATION DISTRICT NO. 17 SAN JOAQUIN COUNTY, CALIFORNIA		PROJECT NO.: 5747.005.000	FIGURE NO. <b>E-38-B</b>
			SCALE: NO SCALE	
			DRAWN BY: MH    CHECKED BY: NS	

**GEOMETRY OF MODEL**



**TOTAL HEAD CONTOURS - HTOL**



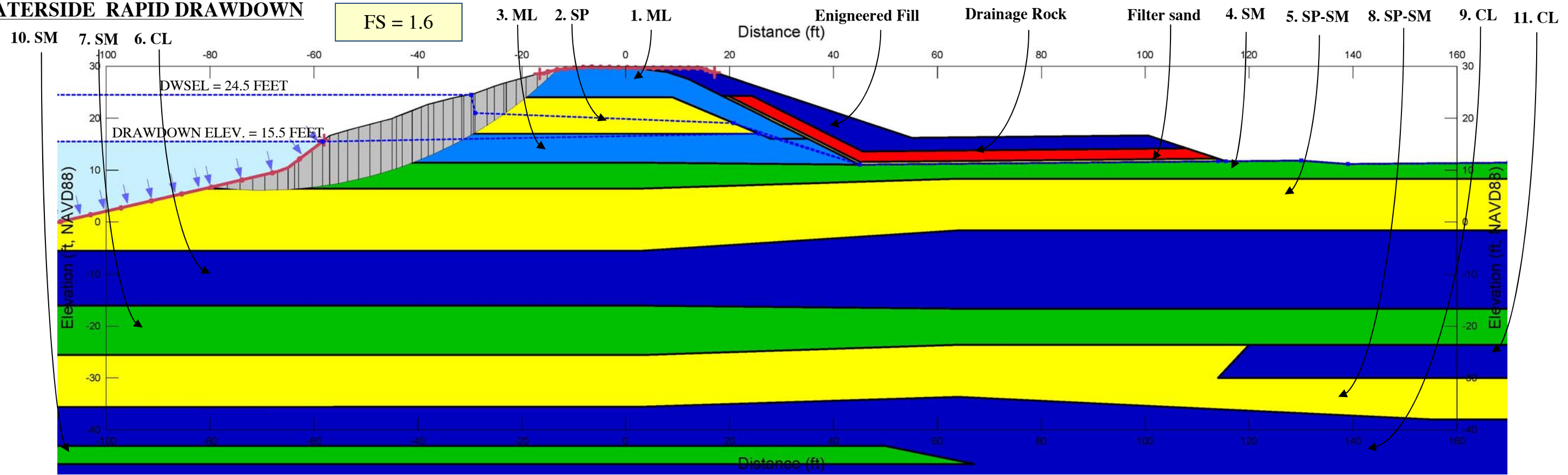
Note: 3D seepage effects are accounted for.

COPYRIGHT © 2014 BY ENGEO INCORPORATED. THIS DOCUMENT MAY NOT BE REPRODUCED IN WHOLE OR IN PART BY ANY MEANS WHATSOEVER, NOR MAY IT BE QUOTED OR EXCERPTED WITHOUT THE EXPRESS WRITTEN CONSENT OF ENGEO INCORPORATED.

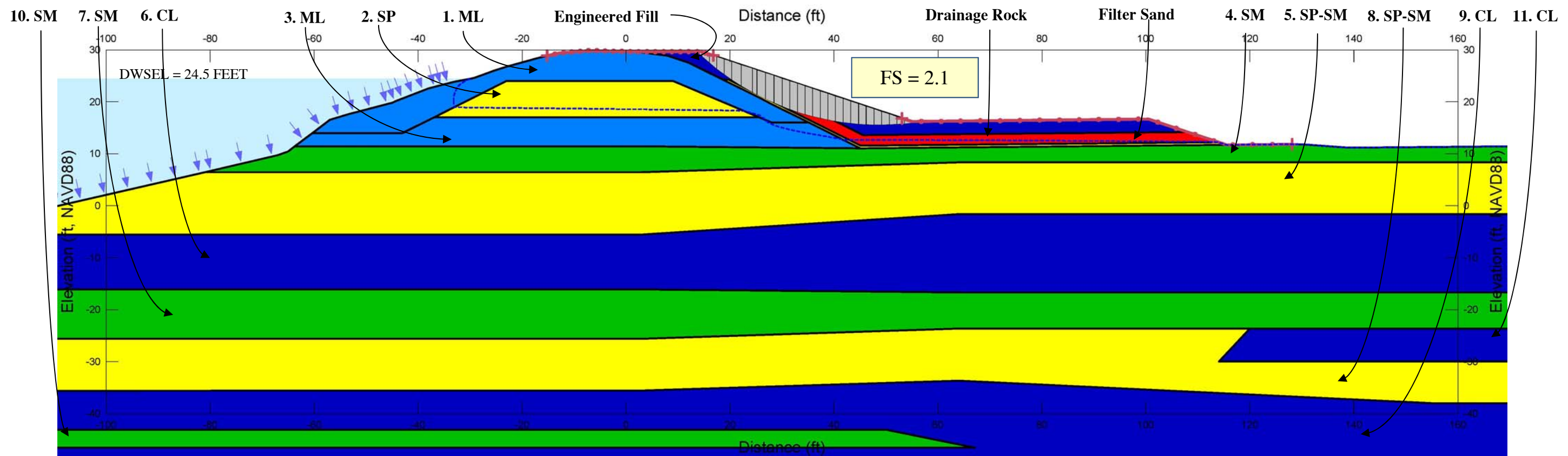
	SEEPAGE ANALYSIS REACH J3B - STA 553+71 RECLAMATION DISTRICT NO. 17 SAN JOAQUIN COUNTY, CALIFORNIA		PROJECT NO.: 5747.005.000	FIGURE NO. <b>E-38-C</b>
			SCALE: NO SCALE	
			DRAWN BY: MH	CHECKED BY: NS

COPYRIGHT © 2014 BY ENGEO INCORPORATED. THIS DOCUMENT MAY NOT BE REPRODUCED IN WHOLE OR IN PART BY ANY MEANS WHATSOEVER, NOR MAY IT BE QUOTED OR EXCERPTED WITHOUT THE EXPRESS WRITTEN CONSENT OF ENGEO INCORPORATED.

### WATERSIDE RAPID DRAWDOWN



### LANDSIDE STEADY STATE SEEPAGE - 200 YEAR



STATIC SLOPE STABILITY ANALYSIS  
REACH J3B - STA 553+71  
RECLAMATION DISTRICT NO. 17  
SAN JOAQUIN COUNTY, CALIFORNIA

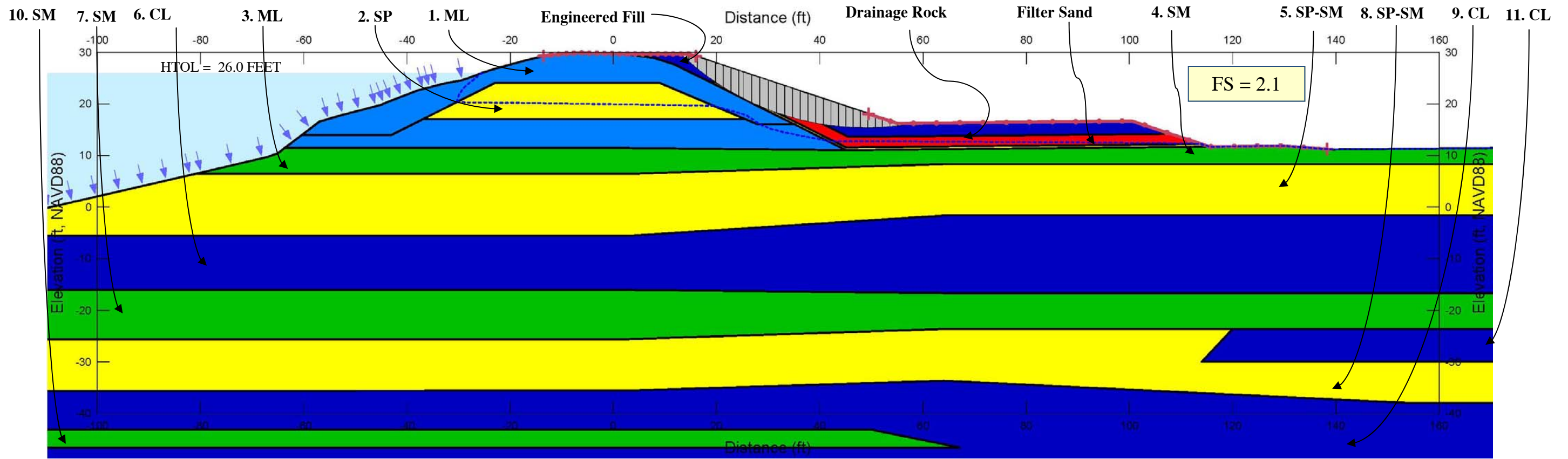
PROJECT NO.:	5747.005.000
SCALE:	NO SCALE
DRAWN BY:	MH
CHECKED BY:	NS

FIGURE NO.

E-38-D

COPYRIGHT © 2014 BY ENGEO INCORPORATED. THIS DOCUMENT MAY NOT BE REPRODUCED IN WHOLE OR IN PART BY ANY MEANS WHATSOEVER WITHOUT THE EXPRESS WRITTEN CONSENT OF ENGEO INCORPORATED.

### LANDSIDE STEADY STATE SEEPAGE - HTOL



STATIC SLOPE STABILITY ANALYSIS  
 REACH J3B - STA 553+71  
 RECLAMATION DISTRICT NO. 17  
 SAN JOAQUIN COUNTY, CALIFORNIA

PROJECT NO.: 5747.005.000	
SCALE:	NO SCALE
DRAWN BY: MH	CHECKED BY: NS

FIGURE NO.  
**E-38-E**