## Appendix E. Design Drawings

- Drawing 1. Title Sheet
- Drawing 2. Work Area Location Map
- Drawing 3. Well Abandonment Plan
- Drawing 4. Waste Removal Area Plan and Sections A and B
- Drawing 5. Waste Consolidation Area Plan and Sections C and D
- Drawing 6. Final Grading Plan and Sections E and F
- Drawing 7. Landfill Cover Design Details
- Drawing 8. Surface Water Control System Plan and Details
- Drawing 9. Landfill Gas Control System Plan and Details
- Drawing 10. Perimeter Gas Monitoring Point Network Plan and Details
- Drawing 11. French Drain Plan and Details



# **DRAWING INDEX:**

## 1. TITLE SHEET

- 2. WORK AREA LOCATION MAP
- 3. WELL ABANDONMENT PLAN
- 4. WASTE REMOVAL AREA PLAN AND SECTIONS A AND B
- WASTE CONSOLIDATION AREA PLAN AND SECTIONS C AND D
- 6. FINAL GRADING PLAN AND SECTIONS E AND F
- 7. LANDFILL COVER DESIGN DETAILS
- SURFACE WATER CONTROL SYSTEM PLAN AND DETAILS
- LANDFILL GAS CONTROL SYSTEM PLAN AND DETAILS
- 10. PERIMETER GAS MONITORING NETWORK PLAN AND DETAILS
- 11. FRENCH DRAIN PLAN AND DETAILS

## **GENERAL NOTES:**

1. CALL UNDERGROUND SERVICE ALERT (USA) AT 1-800-422-4133 A MINIMUM OF 48 HOURS PRIOR TO ANY EXCAVATION.

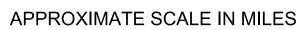
# LANDFILL CAP 100% DESIGN AND CONSTRUCTION PLANS MEYERS LANDFILL

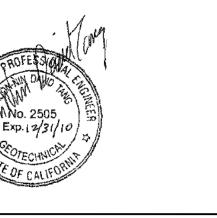
# EL DORADO COUNTY, CALIFORNIA

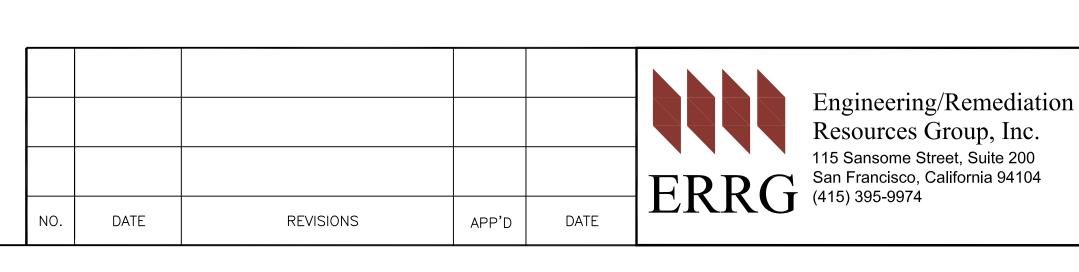


SOURCE: GOOGLE MAPS

SITE VICINITY MAP

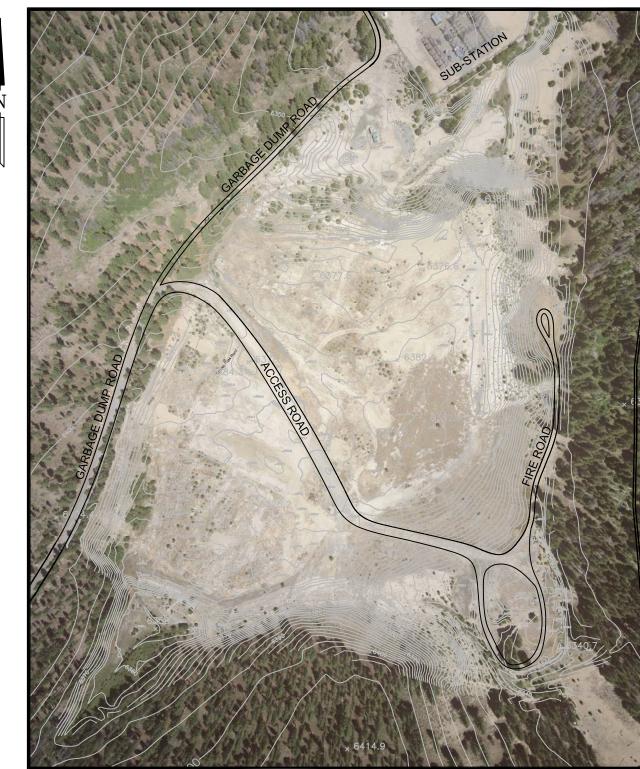




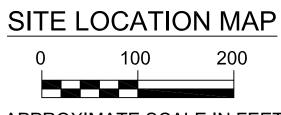




UNITED STATES DEPARTMENT OF AGRICULTURE, FOREST SERVICE CONTRACT NO. AG-91S8-C06-0056



SOURCE: TOPOGRAPHIC INFORMATION PROVIDED BY FOREST SERVICE; SURVEY CONDUCTED IN 2006.

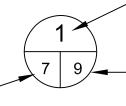


APPROXIMATE SCALE IN FEET

CLIENT: FOREST SERV \_OCATION:

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## LEGEND:



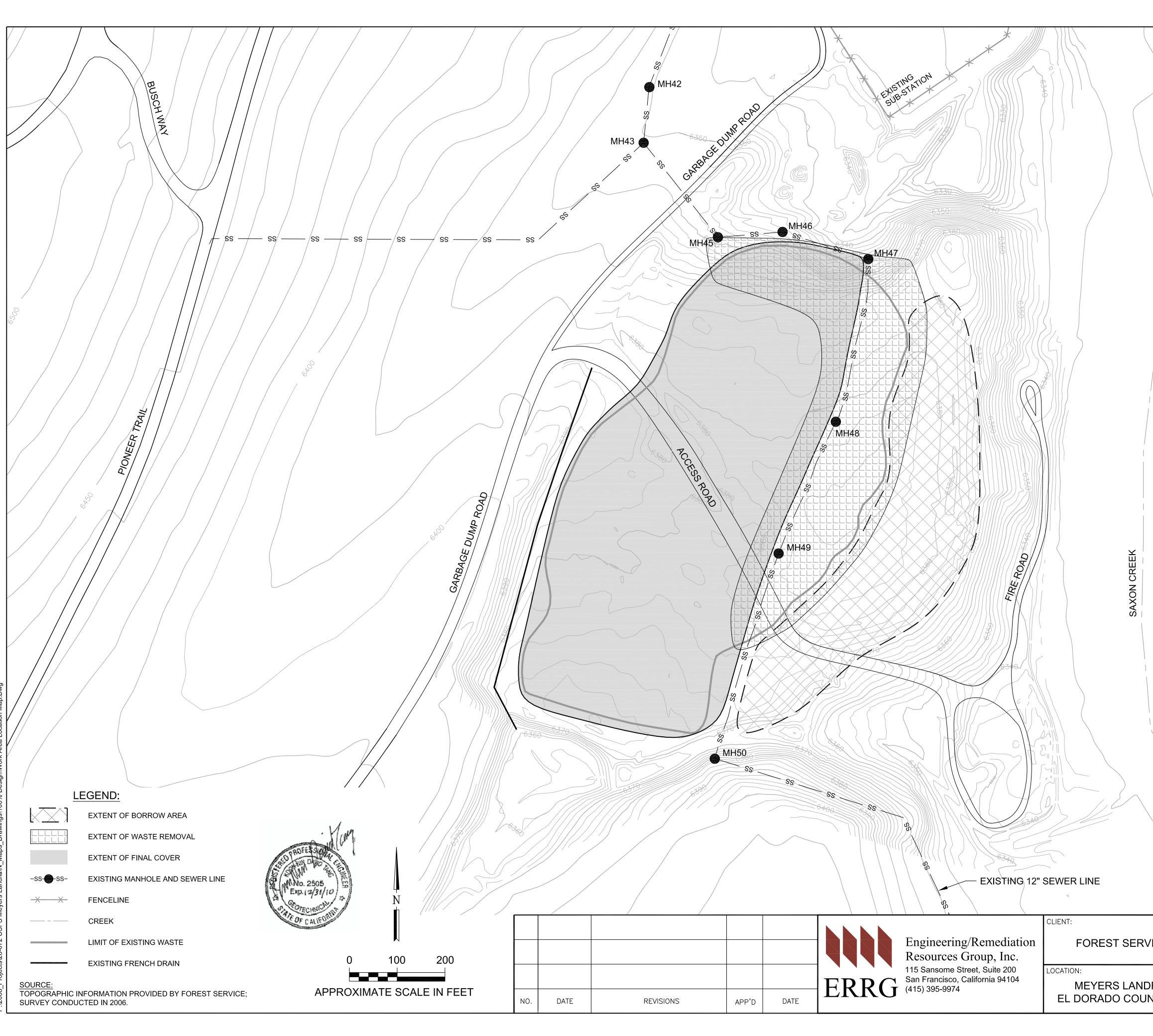
NUMBER OF SHEET ON WHICH CONDITIC IS SHOWN

DETAIL IDENTIFICATION NUMBEE

WHICH DETAIL OF THE CONDITION IS DRAWN

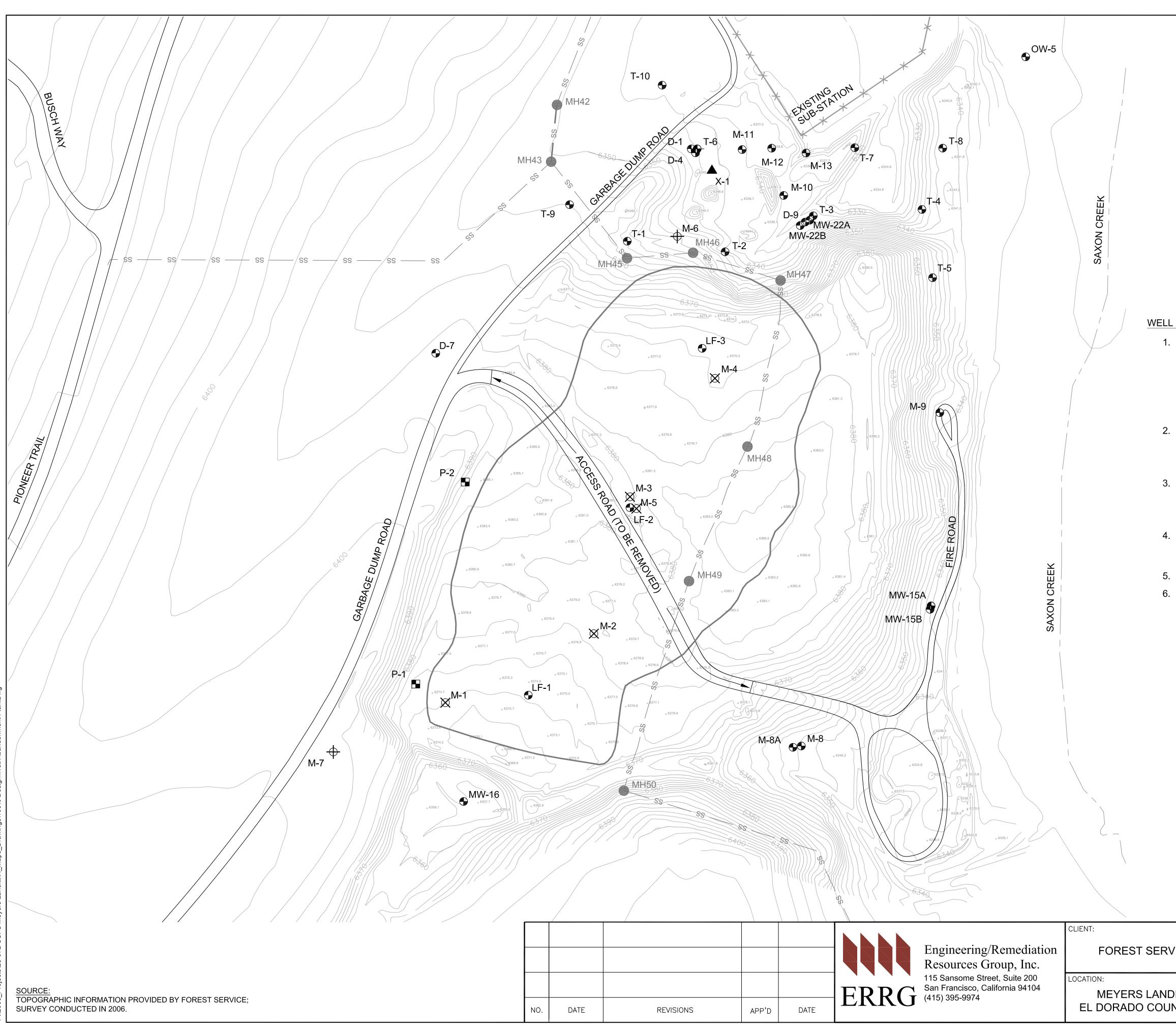
	EXTENT OF BORROW AREA
	EXTENT OF WASTE REMOVAL
	EXTENT OF FINAL COVER
$\mathbb{Z}/\mathbb{Z}$	LIMIT OF LANDFILL
	SAND DRAINAGE LAYER
∨-3 ●	LANDFILL GAS WELL
∨−1 ⊚	LANDFILL GAS LINE
	PIEZOMETER LOCATION
•	MONITORING WELL LOCATION
$\boxtimes$	WELL TO BE ABANDONED
$\Phi$	ABANDONED WELL LOCATION
	EXTRACTION WELL LOCATION
•	LANDFILL GAS MONITORING PROBE
—ss- <b>—</b> -ss–	EXTENT OF WASTE AFTER RELOCATION AND CONSOLIDATION
6380	EXISTING MANHOLE AND SEWER LINE
	PROPOSED TOPOGRAPHIC CONTOUR LINE
· · · · <del></del>	EARTH-LINED DRAINAGE CHANNEL
	CONCRETE-LINED DRAINAGE CHANNEL
)(	CULVERT
	ROCK-LINED CHANNEL
80	CHECK DAM
	LIMIT OF BORROW AREA
	LIMIT OF SEDIMENTATION BASIN AND INFILTRATION AREA
<u> </u>	LANDFILL GAS CONTROL VENT
	FENCELINE
—— GAS —— GAS ——	CREEK
	FRENCH DRAIN
	ANCHOR TRENCH DRAIN PIPE
SD	STORMWATER PIPE

	DESIGNED BY:								
VICE	RDB 12/5/08								
	CHECKED BY:	TITLE SHEET							
	PDL 12/8/08								
DFILL	P.E/P.G.:	ERRG PROJECT NO.	REVISION NO.	SHEET	OF	DRAWING NO.			
JNTY, CA	DKT 12/8/08	28-072	28-072 0 1 1 <b>1</b>						

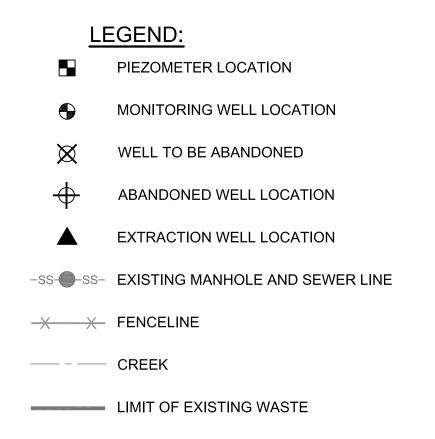


<sup>o</sup>:\2008\_Projects\28-072 USFS Meyers Landfill\N\_Maps\_Drawings\100% Design\Work Area Location Map.E

SAXON CREEK					
	DESIGNED BY:				
VICE DFILL INTY, CA	VZC 11/26/08 CHECKED BY: PDL 12/1/08 P.E/P.G.: DKT 12/1/08	WORK ERRG PROJECT NO. 28-072	AREA LOO REVISION NO. 0	CATION SHEET OF 1 1	MAP DRAWING NO. 2



2.\2008\_Projects\28-072 USFS Meyers Landfill\N\_Maps\_Drawings\100% Design\Well Abandonment Plan.



## WELL ABANDONMENT NOTES:

1. Well abandonment to be conducted in accordance with:

- a. California Water Code Division 7, Chapter 10 and California Health and Safety Code Division 104, Part 9.5
- b. California Water Well Standards Bulletins 74-81 and 74-90
- c. El Dorado County Department of Environmental Management Well Abandonment and Destruction Standards

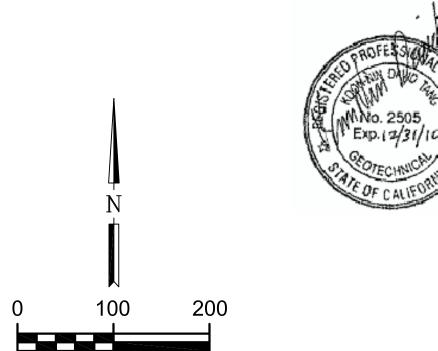
2. Prior to destroying a well, it must be investigated to determine the construction details, maintenance history, and current condition. A work plan, including the investigation findings and destruction method, must be submitted with the well abandonment and destruction permit application.

3. Wells must be sounded immediately prior to destruction to ensure they are free of obstructions. If any chemicals are observed, the El Dorado County Department of Environmental Management must be immediately notified in writing. Wells will be cleaned to remove and properly dispose of all obstructions and chemicals.

 All material within the original borehole (e.g., annular seal, casing, screen, filter pack, etc.) must be removed. The borehole must be completely filled with impervious sealing material.

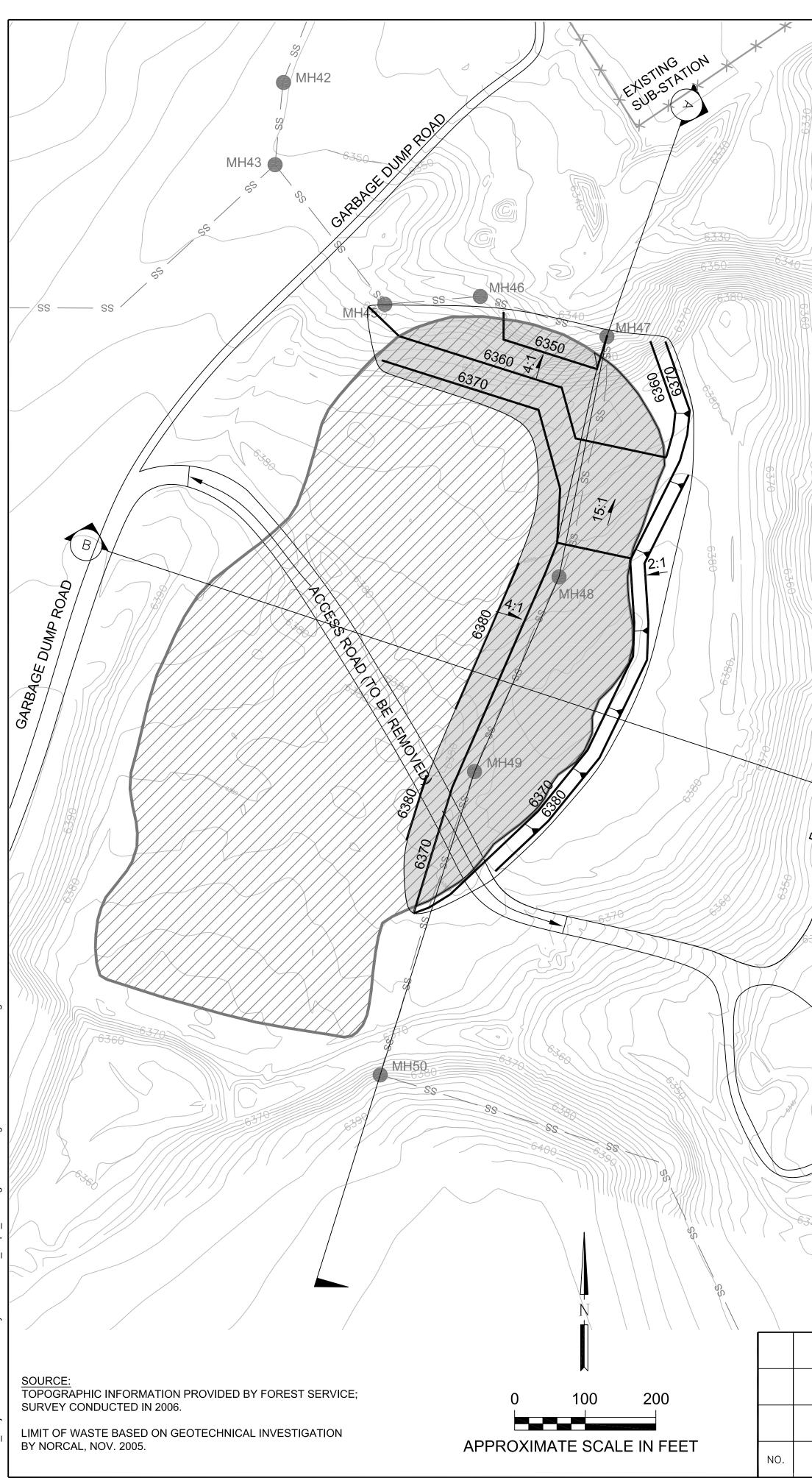
5. Acceptable sealing materials include neat cement, sand-cement grout, or concrete.

6. Sealing material will be placed by tremie pipe or equivalent method in one continuous operation. Sealing pressure must be maintained until sealing materials are properly set.



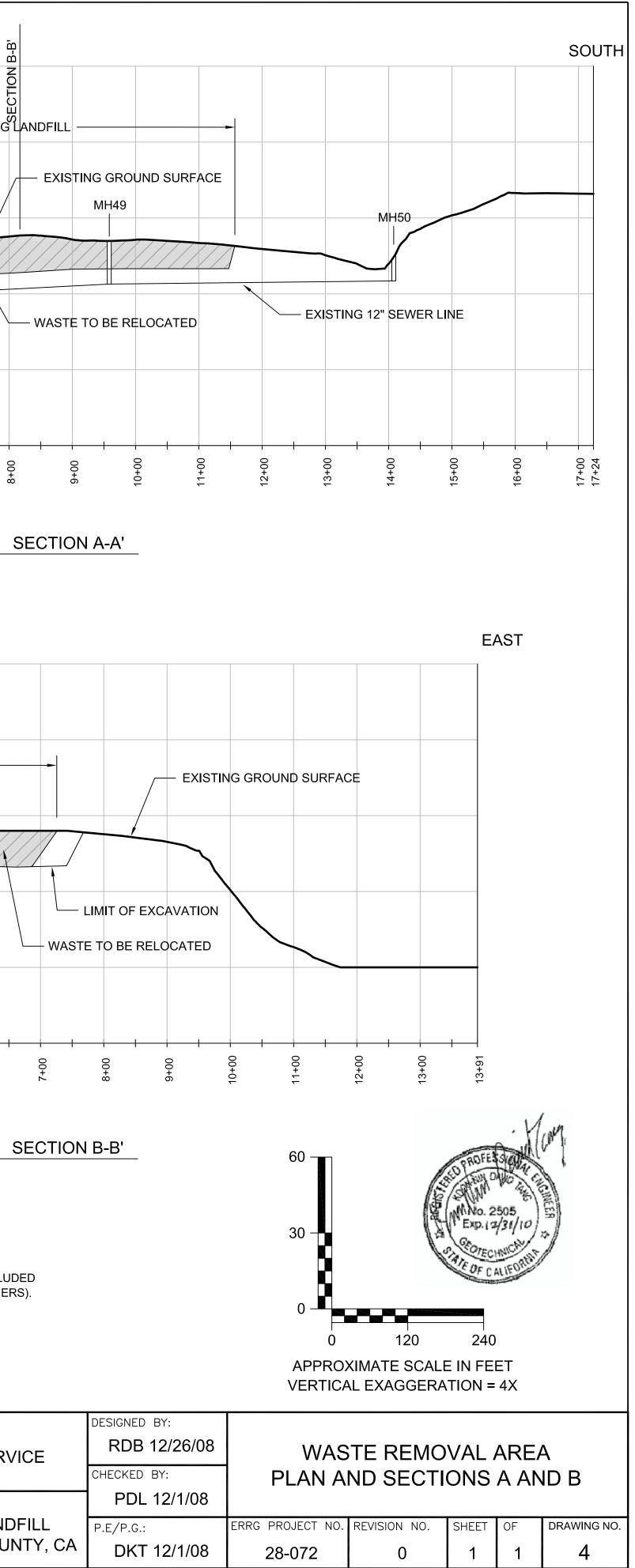


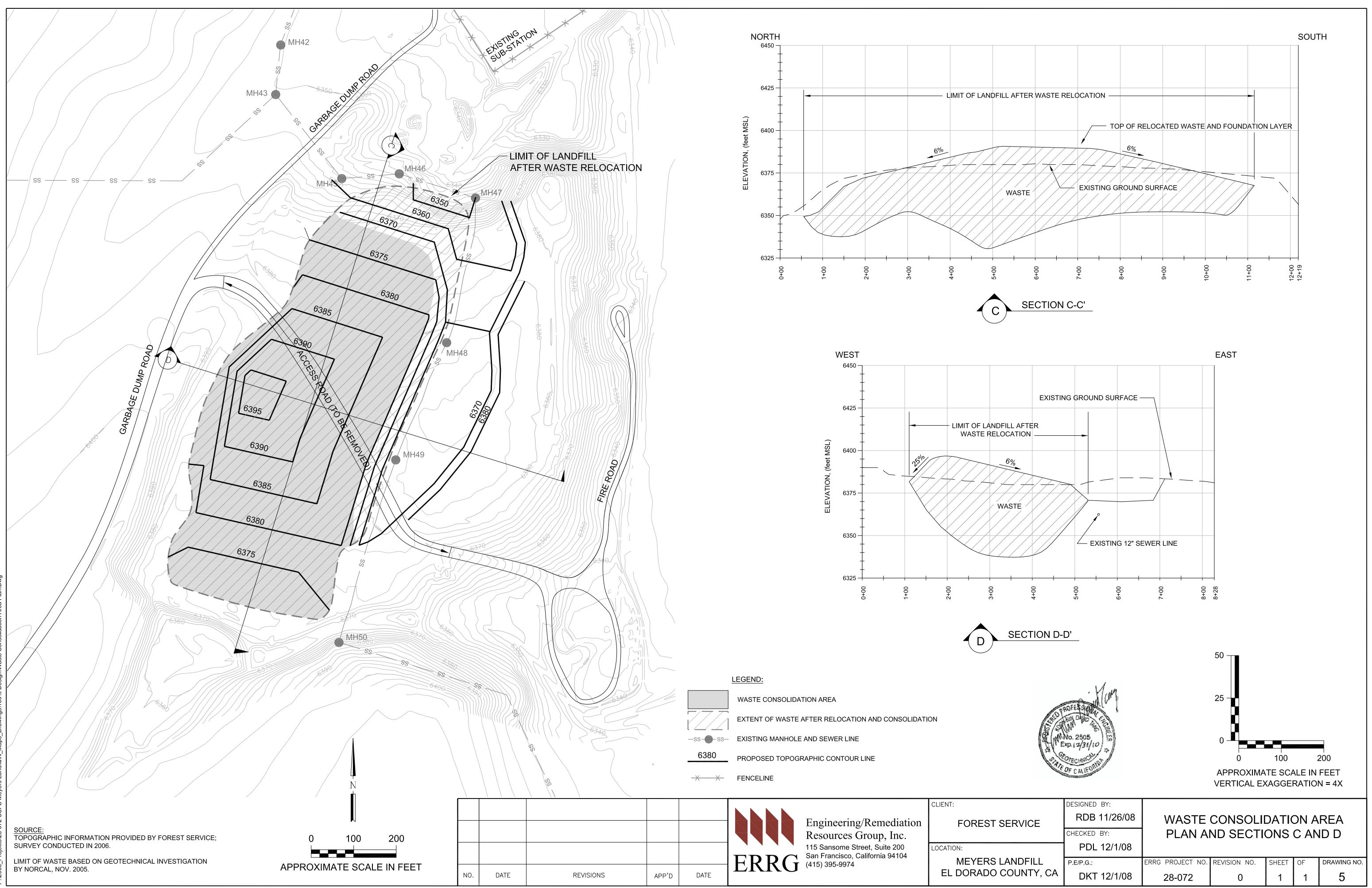
DESIGNED BY: VZC 11/26/08							
VZC 11/26/08	WELL ABANDONMENT PLAN						
CHECKED BY: VVELL ABANDONIVIENT PLAN							
PDL 12/1/08							
	PROJECT NO. REVISION NO. SHEET OF DRAWING NO.						
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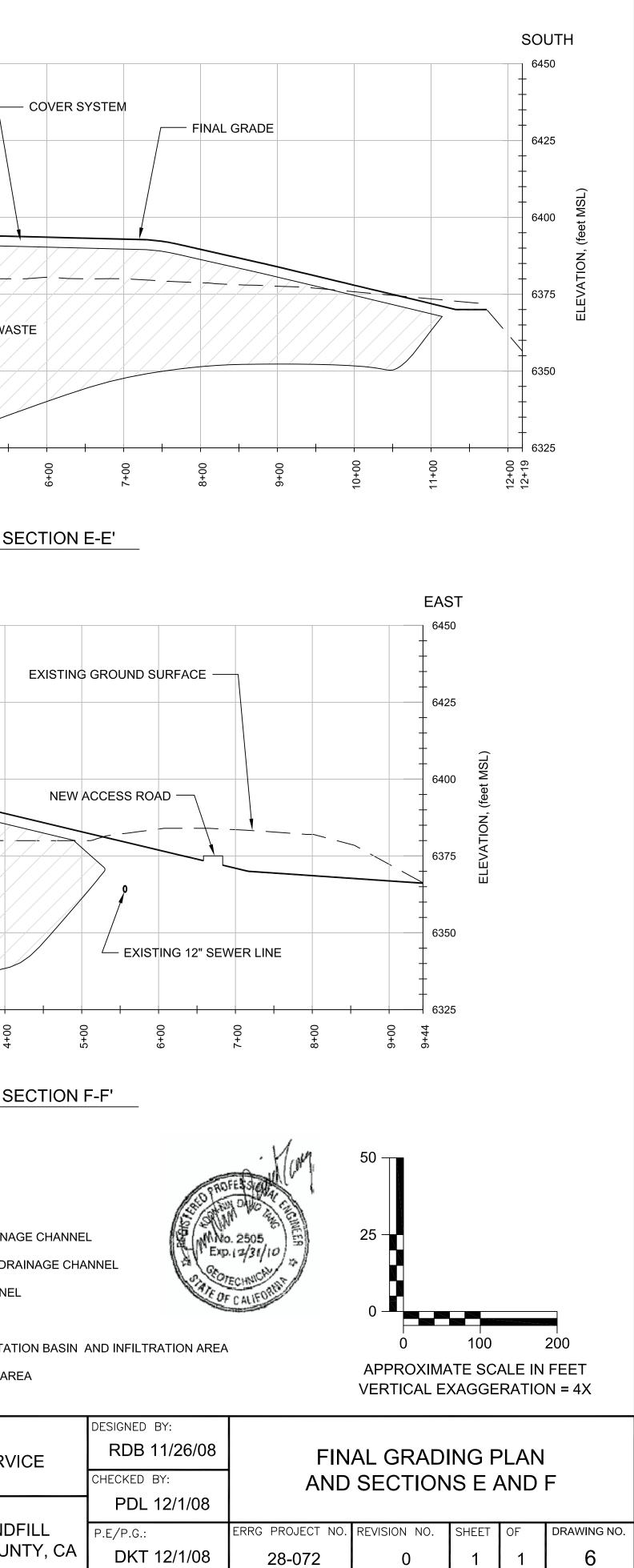
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	SAXON CREEK		WEST 6450 6420 6390 6360 6360 6300 6300	LIMIT OF WASTE	T OF EXISTING LANDFILL 12" SEWER LINE 0 0 0 0 0 0 0 0 0 0 0 0 0
		-ss-@-ss- -xx- 6380	LEGEND: EXTENT OF EXISTING EXTENT OF WASTE R EXISTING MANHOLE FENCELINE CREEK LIMIT OF EXISTING W PROPOSED EXCAVAT	REMOVAL AND SEWER LINE N V ASTE	IOTE: VINTERIZATION PLAN TO BE INCLUI N CONSTRUCTION PLAN (BY OTHER
DATE	REVISIONS	APP'D DATE	ERRG	Engineering/Remediatie Resources Group, Inc. 115 Sansome Street, Suite 200 San Francisco, California 94104 (415) 395-9974	on FOREST SERV

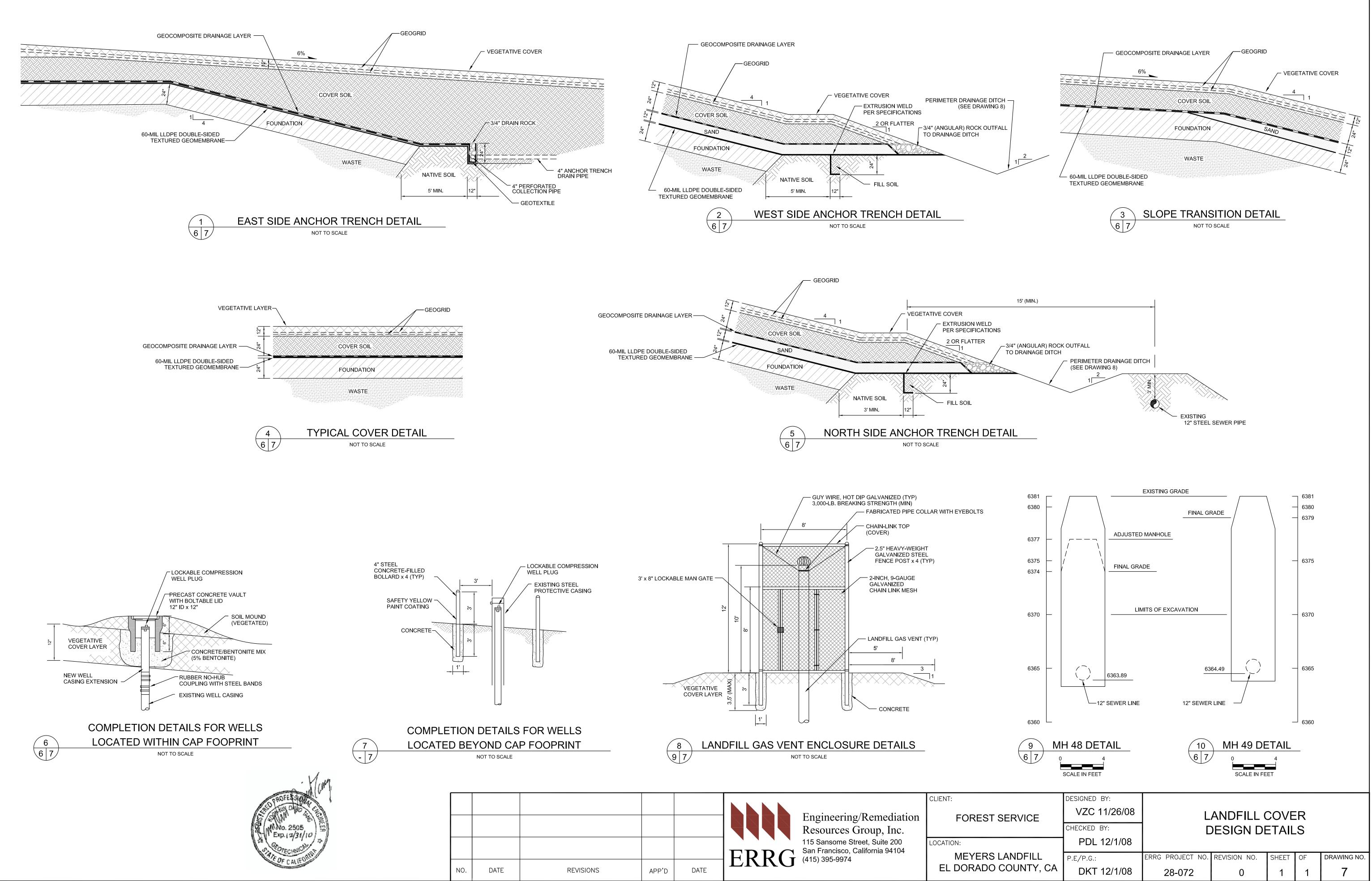




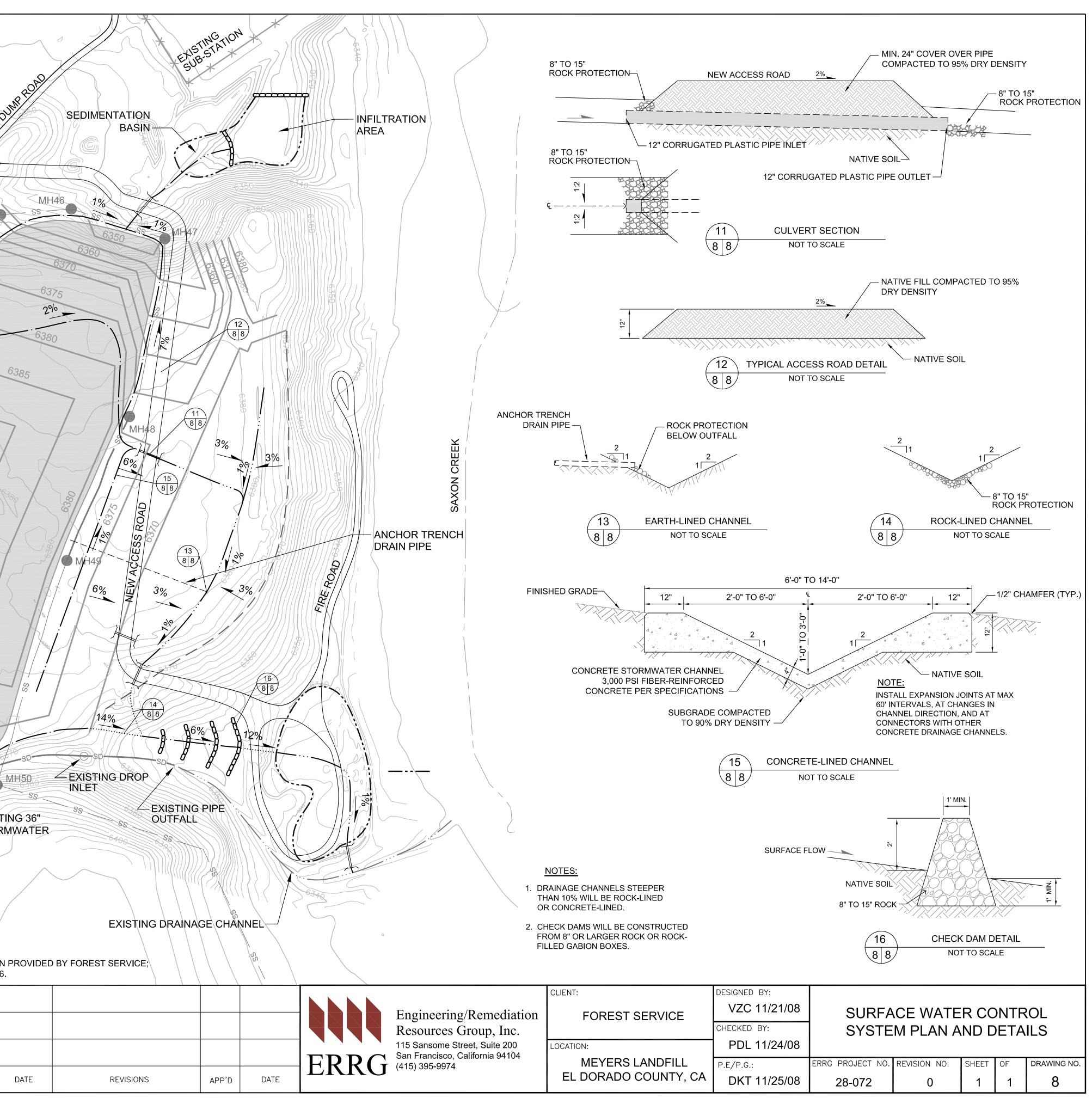


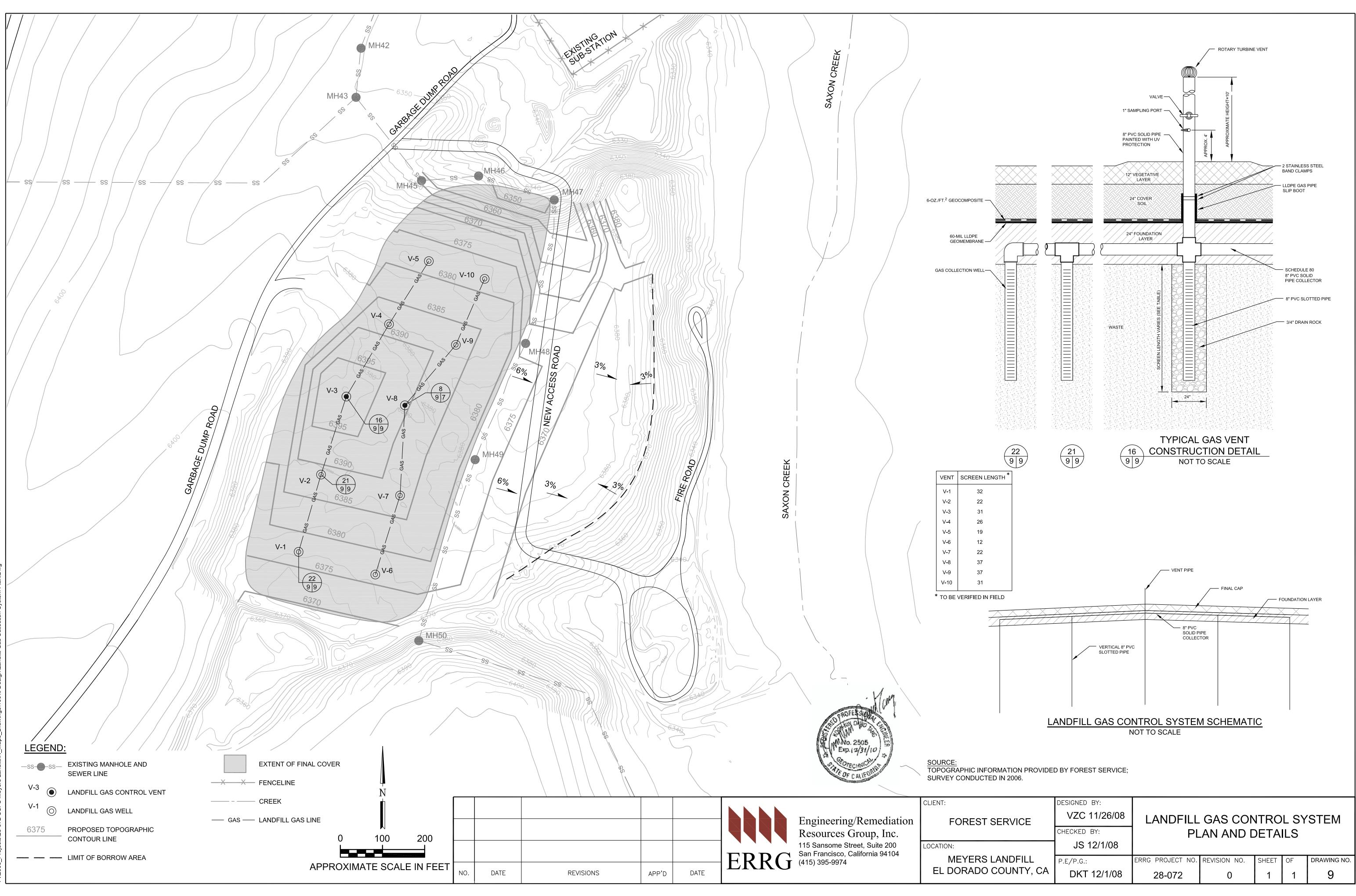
			-								
				ELEVATION, (feet MSL)	NORTH 6450 6425 6400 6375 6350 6350 6325 8		TING 12" SEV				WP
		SAXON CREEK				ELEVATION, (feet MSL)	EST = 5425 + 5425 + 5325 + 5		OVER SYSTE		
			160 € V-3		AND DRAINA	GE LAYER WELL VENT IHOLE ANI	R D SEWER LIN	IE	- — CON ROC - — LIMI	TH-LINED DRA NCRETE-LINED CK-LINED CHAI ECK DAM IT OF SEDIMEN IT OF BORROV	D DF NNI
	DEVISIONS		DATE	ER	RG	Engin Resou 115 Sar San Fra (415) 39	neering/R urces Gro nsome Street ancisco, Califo 95-9974	Suite 200	FC LOCATION: ME	OREST SE	.NE
DATE	REVISIONS	APP'D	DATE								-0



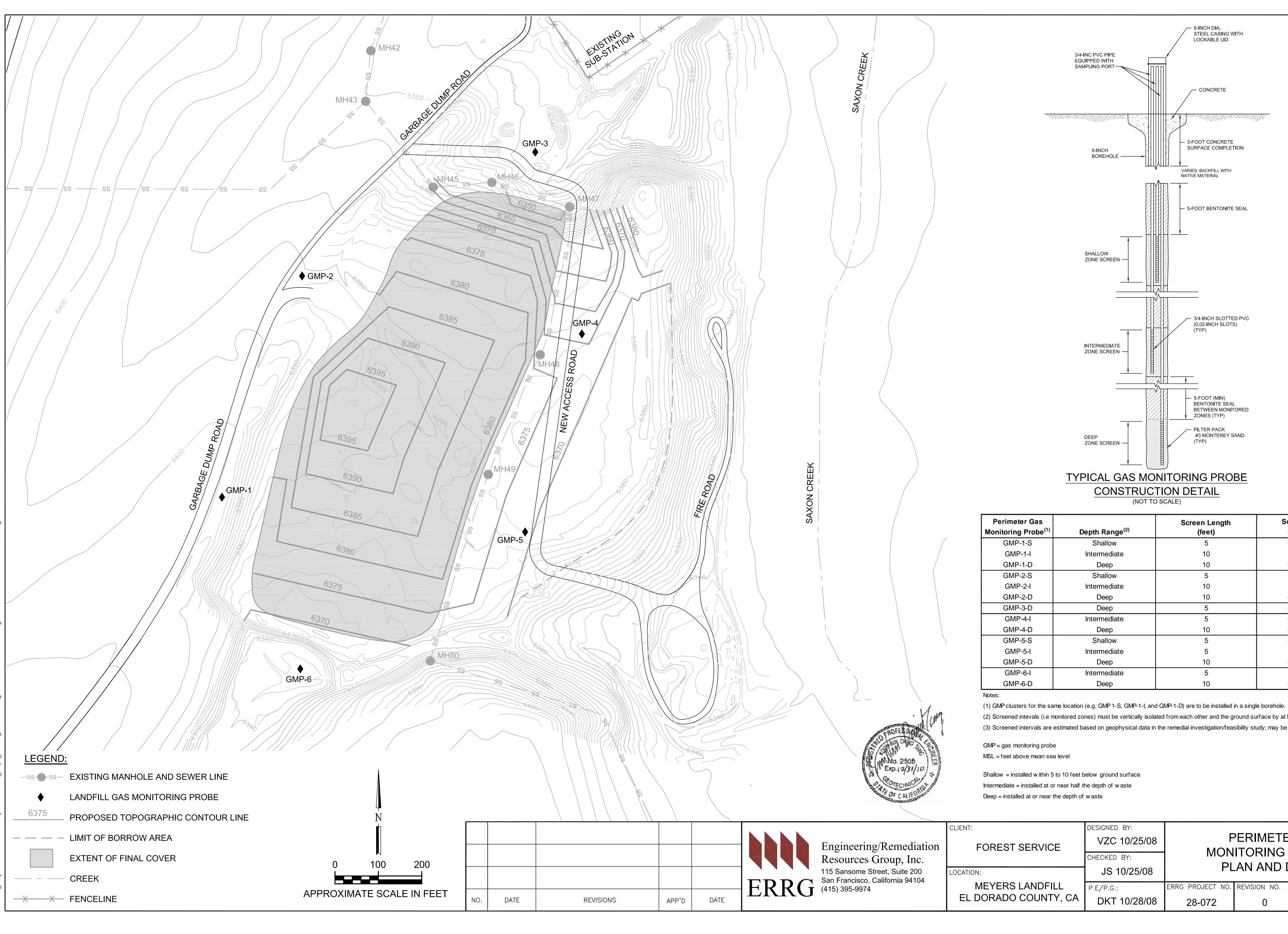


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	s	sss	SS SS	- SS -	MH455
		6	GARBAGE DUMP ROAD		6395
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ign\Surtace \	·	EARTH-LINED DRAINAGE CHANNEL CONCRETE-LINED DRAINAGE CHANNEL	FRENCH DRAIN OUTFALL	6360	
js\100% Det	)(	CULVERT ROCK-LINED CHANNEL	EXISTING DRAINAG CHANNEL		EXIST STORI
ps_Drawinç	6375	CHECK DAM PROPOSED TOPOGRAPHIC CONTOUR LINE		EXISTING INLET	PIPE
dfill\N_Ma		LIMIT OF BORROW AREA		EXISTING DROP IN	
မ		EXTENT OF FINAL COVER FENCELINE CREEK	Ham	N	SOURCE: TOPOGRAPHIC INFORMATION SURVEY CONDUCTED IN 2006.
Projects\28-072 USI		LIMIT OF SEDIMENTATION BASIN AND INFILTRATION AREA	HO ROFESSION TO THE STORE		
- \2008_Project	— SD —	ANCHOR TRENCH DRAIN PIPE	CALIFORNICAL	0 100 APPROXIMATE SCA	200





Projects\28-072 USFS Meyers Landfill\N\_Maps\_Drawings\100% Design\Landfill Gas Collection System PI



as be <sup>(1)</sup>	Depth Range <sup>(2)</sup>	Screen Length (feet)	Screen Interval (feet MSL) <sup>(3)</sup>
	Shallow	5	6,390 - 6,395
	Intermediate	10	6,355 -6,365
	Deep	10	6,330 - 6,340
	Shallow	5	6,371 - 6,376
	Intermediate	10	6,355 -6,365
	Deep	10	6,330 - 6,340
	Deep	5	6,328 - 6,334
	Intermediate	5	6,354 - 6,359
	Deep	10	6,329 - 6,339
	Shallow	5	6,362 - 6,367
	Intermediate	5	6,350 -6,355
	Deep	10	6,330 - 6,340
	Intermediate	5	6,350 -6,355
	Deep	10	6,330 - 6,340

(2) Screened intevals (i.e monitored zones) must be vertically isolated from each other and the ground surface by at least 5 feet of bentonite. (3) Screened intervals are estimated based on geophysical data in the remedial investigation/feasibility study; may be modified during installation.

VICE	DESIGNED BY: VZC 10/25/08	PERIMETER GAS MONITORING NETWORK								
	CHECKED BY: JS 10/25/08	PLAN AND DETAILS								
OFILL NTY, CA	P.E/P.G.:	ERRG PROJECT NO.	REVISION NO.	SHEET	OF	DRAWING NO.				
	DKT 10/28/08	28-072	0	1	1	10				

