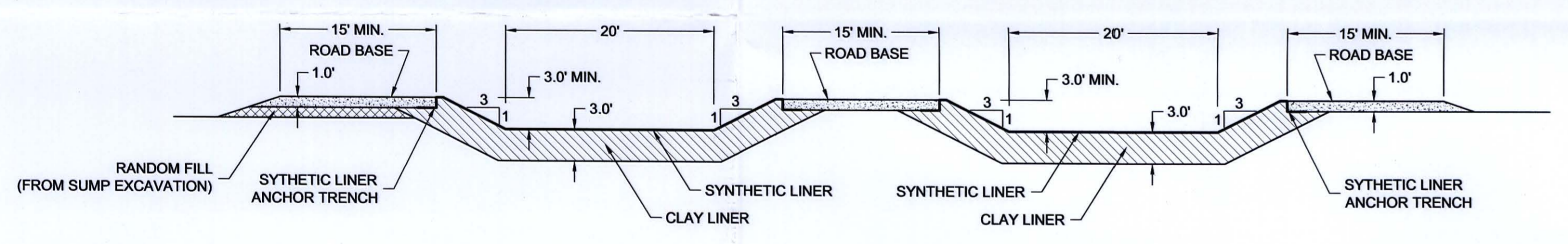
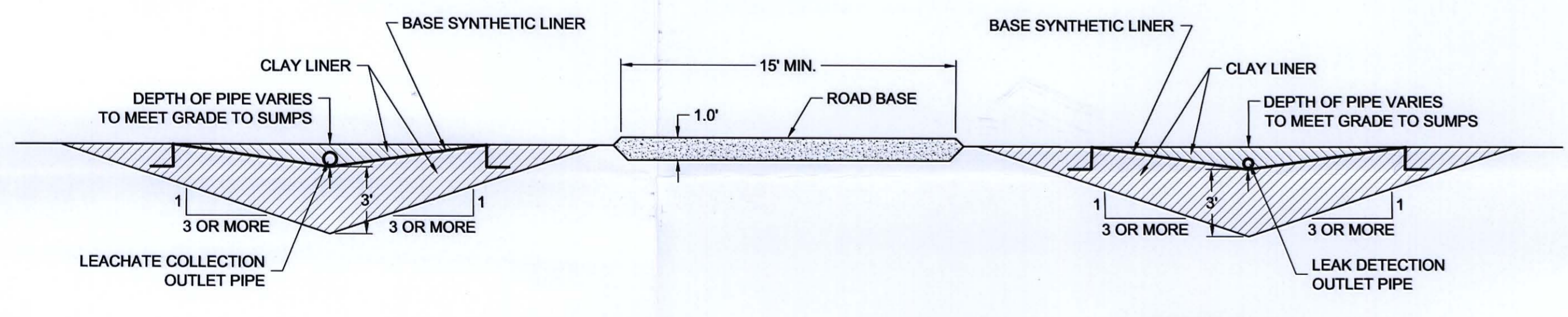


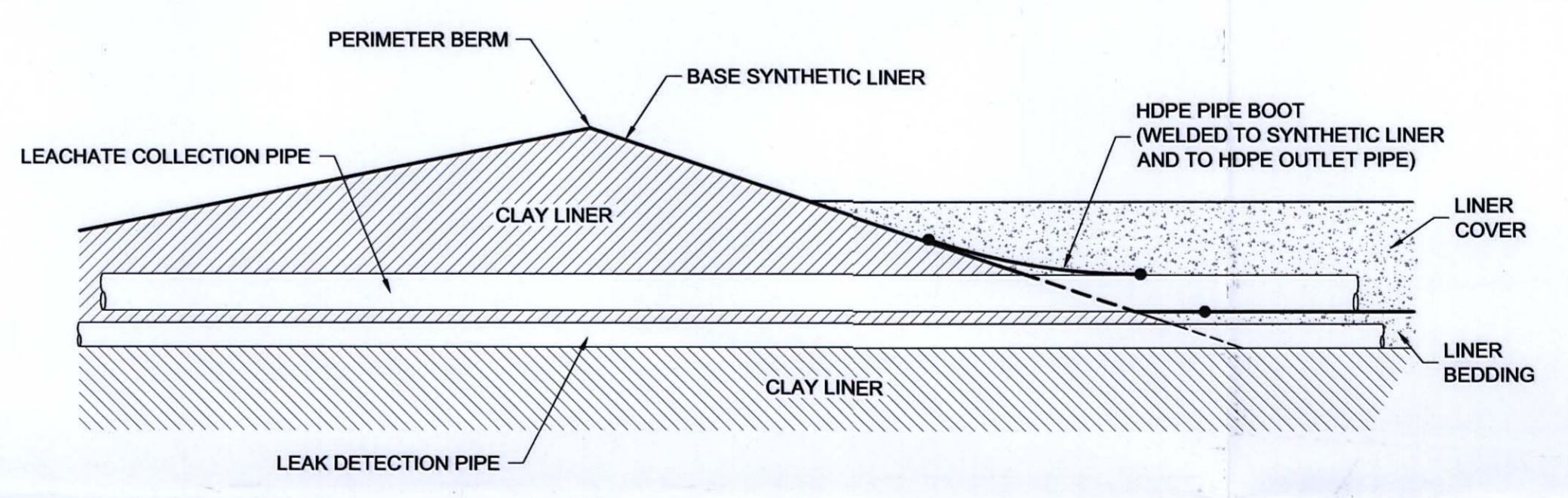
TYPICAL CROSS SECTION THROUGH COLLECTION SYSTEM OUTLETS AND SUMPS



TYPICAL CROSS SECTION THROUGH SUMPS



TYPICAL CROSS SECTION THROUGH OUTLET PIPE CHANNELS



DETAIL 8  
HDPE PIPE BOOT

- NOTES:**
- ROCK MULCH - Rock mulch sandy gravel and cobbles with median particle size of 4.7 inches, and layer thickness of 9 inches.
  - TOPSOIL - Approved material obtained from within facility boundary.
  - SOIL COVER - Gravelly clay to silty clay obtained from within facility boundary.
  - RANDOM FILL - Clean sandy gravel used for subgrade fill, with top surface rolled with vibratory roller or compactor.
  - DISPOSED MATERIALS - Materials from site cleanup operations, placed in lifts to minimize void spaces and rolled (where necessary) with vibratory roller or compactor.
  - BASE SYNTHETIC LINER - 60-mil nominal thickness HDPE, smooth surface on both sides, seamed and tested to form continuous liner.
  - SUBGRADE FILL - Granular material with maximum particle size of 6 inches.
  - CLAY LINER - Silty clay compacted to 95 percent of Standard Proctor density and within 2 percent of Standard Proctor optimum moisture content. Material obtained from within facility boundary.
  - LINER BEDDING AND COVER MATERIAL - Granular material with maximum particle size of 1.0 inches. Liner cover material placed in one lift to form a layer 1.5 ft. thick.
  - UPPER SURFACE OF DISPOSED MATERIALS - The upper surface of disposed materials shall be rolled with a drum roller or rubber-tired equipment.
  - COVER SYNTHETIC LINER - 60-mil nominal thickness HDPE, textured surface on both sides, seamed and tested to form continuous liner.
  - LEACHATE COLLECTION PIPE - 6-inch diameter blank HDPE pipe. Pipe perforated within inside toe of perimeter berm.
  - LEAK DETECTION PIPE - 4-inch diameter blank HDPE pipe. Pipe perforated 20 ft. inside of perimeter berm.
  - BASE SUBGRADE SURFACE - Compacted random fill, excavated soil surface, natural soil subsurface, or clean concrete or asphalt surface, forming base for subgrade fill.
  - STORMWATER LINER - 40-mil nominal thickness HDPE (or approved equivalent), smooth surface on both sides, seamed along stormwater berm.

No.	DESCRIPTION	BY	CHKD.	APPROVED	DATE
1	ISSUED FOR PERMITTING	CLS			12/02
2	UPDATED LINER SYSTEM	CLS			8/03
3	DISPOSAL CELL CONSTRUCTION PLAN	CLS			2/04
4	MODIFIED FROM SETTLEMENT AGREEMENT	CLS			3/05

DWG No.	DRAWING TITLE

ENGINEERING RECORD	BY	DATE
PRELIMINARY DESIGN	CLS	12/02
CELL OPERATIONS	DAS	2/04
ODEQ MODIFICATIONS	CLS	9/04

PREPARED BY

consulting scientists and engineers  
Fort Collins, CO  
970 223-9600

PREPARED FOR

**SEQUOYAH FUELS**  
A GENERAL ATOMICS COMPANY

TITLE			
<b>COLLECTION SYSTEM SECTIONS AND DETAILS</b>			
PROJECT: 100734	DATE: MARCH 2005	DRAWING: 12	REVISION:
SCALE: AS SHOWN	ACAD FILE: SITE-12-REV-D		

D-03