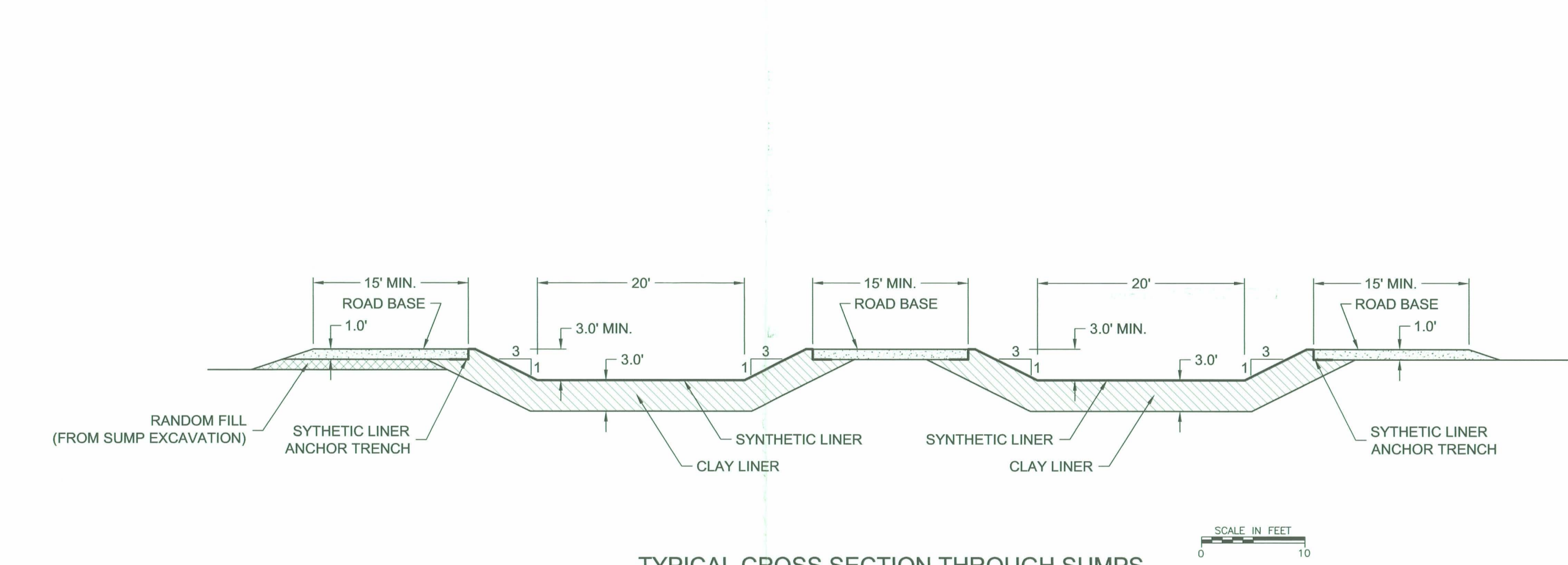
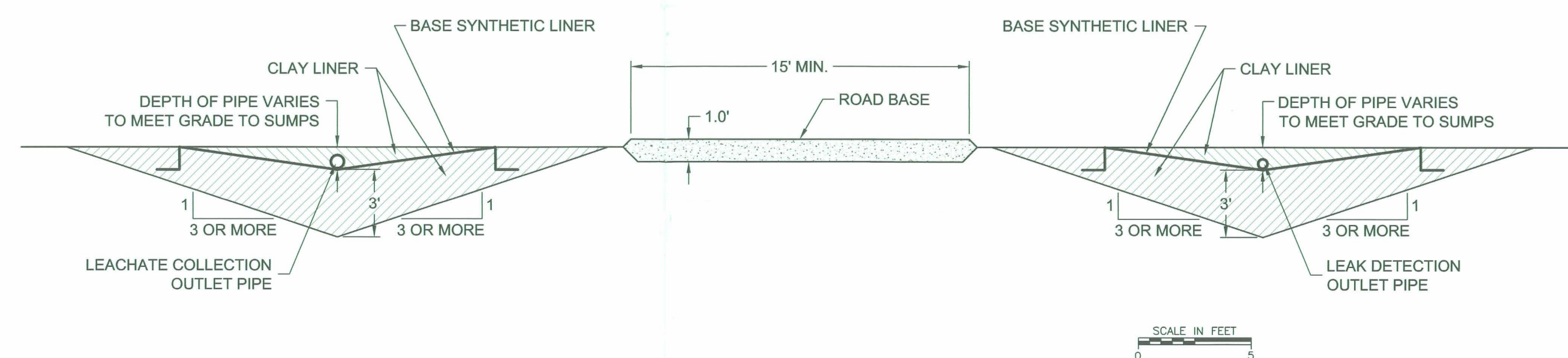


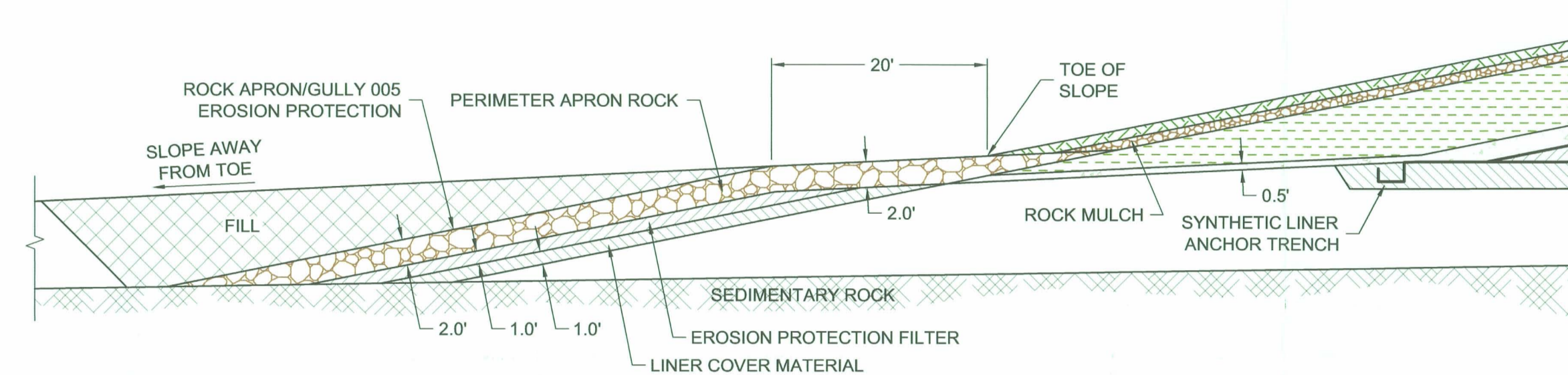
TYPICAL CROSS SECTION THROUGH COLLECTION SYSTEM OUTLETS AND SUMPS



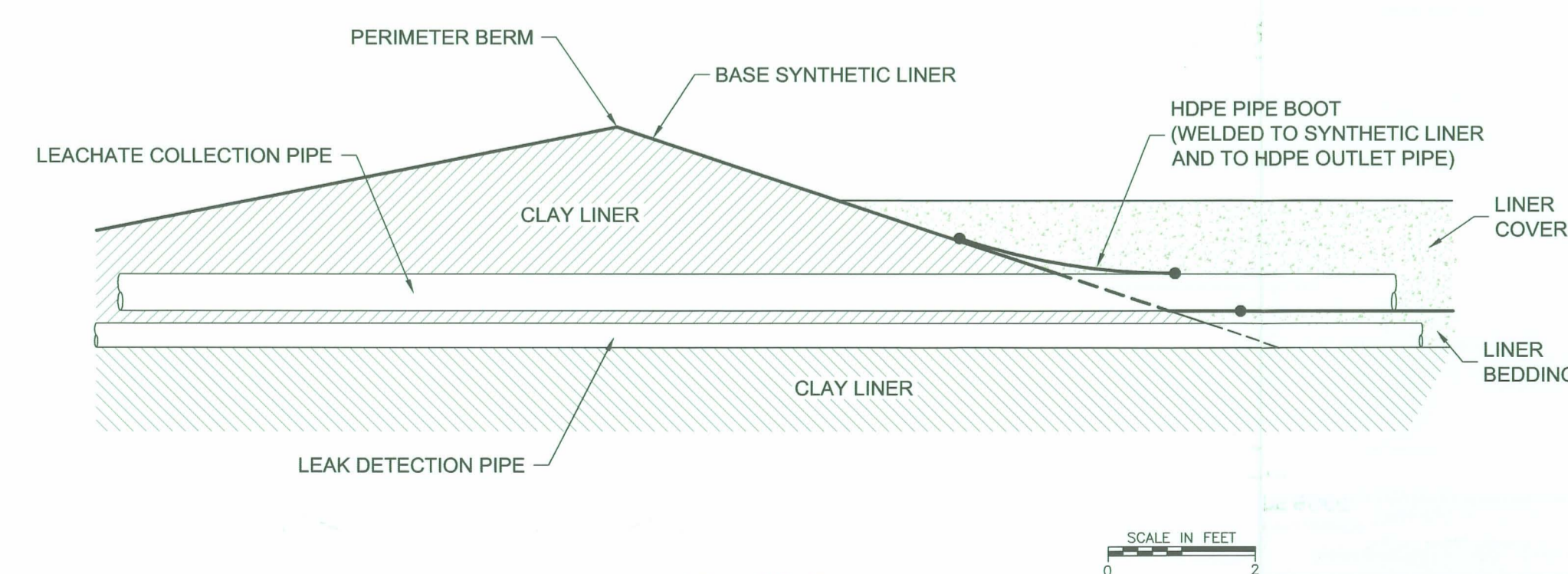
TYPICAL CROSS SECTION THROUGH SUMPS



TYPICAL CROSS SECTION THROUGH OUTLET PIPE CHANNELS



DETAIL 9  
GULLY 005 EROSION PROTECTION DETAIL



DETAIL 8  
HDPE PIPE BOOT

NOTES:

- ROCK MULCH - Angular sandy gravel and cobbles with median particle size of 3.7 inches on south and east slopes, 3.0 inches on north and west slopes, and layer thickness of 9 inches.
- PERIMETER APRON ROCK - Angular gravel and cobbles with median particle size of 7.5 inches and layer thickness of 24 inches.
- EROSION PROTECTION FILTER - Gravel and sand with maximum particle size of 3.0 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.

REVISIONS	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
	5	MODIFIED FROM NRC REVIEW	CLS			1/06
	6	MODIFIED FROM NRC REVIEW FOR EROSION PROTECTION	CLS			1/07
	7	MODIFIED FROM NRC REVIEW FOR EROSION PROTECTION	RTS			12/07

REFERENCES	DWG No.	DRAWING TITLE

DESIGNERS	ENGINEERING RECORD	BY	DATE
	PRELIMINARY DESIGN	CLS	12/02
	CELL OPERATIONS	DAS	2/04
	ODEQ MODIFICATIONS	CLS	9/04
	NRC REVIEW	RTS	1/07

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A GENERAL ATOMICS COMPANY

TITLE			
<b>COLLECTION SYSTEM SECTIONS AND DETAILS</b>			
PROJECT: 100734	DATE: DECEMBER 2007	DRAWING REVISION	
SCALE: AS SHOWN	ACAD FILE: SITE-12-REV-G	12	