FIGURES

AERIAL TOPOGRAPHY DATE: 10-19-06

N

GRAPHIC SCALE

300 150 0 300 600

(IN FEET)

LEGEND

- APPROXIMATE PROPERTY BOUNDARY
- APPROXIMATE LIMIT OF REFUSE
- 1650 EXISTING GRADE CONTOUR
- 1500 FINISHED GRADE CONTOUR
- LINER PHASE LIMIT
- PERMITTED LIMIT OF REFUSE (CUP EXHIBIT A-2)
- EXISTING STOCKPILE

NOTE:
EXISTING STOCKPILES SHOWN WILL CONTINUE TO BE USED DURING FUTURE PHASES. ADDITIONAL STOCKPILING OF SUBSEQUENT CELL EXCAVATIONS WILL BE PLACED ON NEW FILL AREAS AS THEY ARE DEVELOPED WITH A HEIGHT NOT TO EXCEED FINAL GRADES.

ACCESS ROAD:
EXCAVATION: 50,000 CY
FILL: 760,000 CY

FIGURE 6

NO.	REVISION DESCRIPTION	BY:

BAS
BRYAN A. STIRRAT & ASSOCIATES
CONSULTING CIVIL & ENVIRONMENTAL ENGINEERS
1360 E. VALLEY VISTA DRIVE
DIAMOND BAR, CALIFORNIA 91765
(909) 860-7777

SUNSHINE CANYON LANDFILL JTD 2007
PROPOSED PHASING LIMITS

DESIGNED BY : R.M.G./J.M.B.	SCALE : AS SHOWN	
DRAWN BY : C.A.L.	DATE : 2-2008	FILE NO.: 172963DB.DWG
CHECKED BY : P.W.	DATE : 2-2008	
APPROVED BY :	DATE : 2-2008	

FOR PERMITTING PURPOSES ONLY NOT FOR CONSTRUCTION

AERIAL TOPOGRAPHY DATE: 10-19-06

FIGURE 7

NO.	REVISION DESCRIPTION	BY:

BAS
BRYAN A. STIRRAT & ASSOCIATES
CONSULTING CIVIL & ENVIRONMENTAL ENGINEERS
1360 E. VALLEY VISTA DRIVE
DIAMOND BAR, CALIFORNIA 91765
(909) 860-7777

SUNSHINE CANYON LANDFILL JTD 2007
FINAL GRADING PLAN

DESIGNED BY : R.M.G./J.M.B.	SCALE : AS SHOWN	
DRAWN BY : C.A.L.	DATE : 2-2008	FILE NO.: 172964DB.DWG
CHECKED BY : P.W.	DATE : 2-2008	
APPROVED BY :	DATE : 2-2008	

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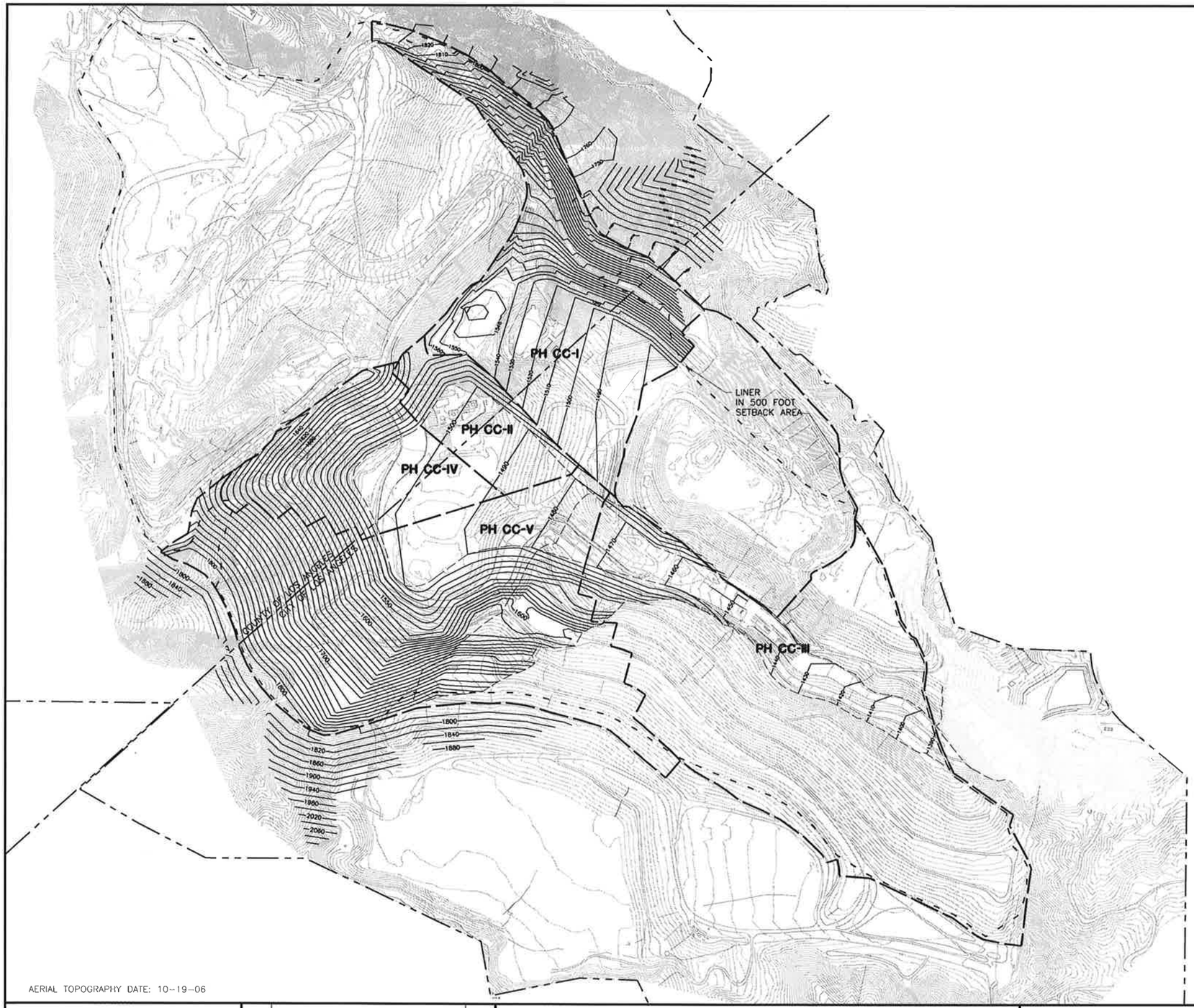


N

GRAPHIC SCALE

300 150 0 300 600

(IN FEET)

NOTES:

1) PORTIONS OF PHASE I ARE BEING CONSTRUCTED UNDER EXISTING SCL CITY AND SCL COUNTY PERMIT NUMBERS 19-AR-0002-2 AND 19-AA-0853 RESPECTIVELY.

2) BASE LINER GRADES ARE TOP OF LINER GRADE. LINER AND SUBDRAIN COMPONENTS TO BE PLACED 5 TO 8-FEET BELOW CONTOURS SHOWN.

3) BENCHES HAVE BEEN OMITTED FOR CLARITY ON THIS PLANNING DOCUMENT. BENCHES 15-FOOT MINIMUM WIDTH WILL BE PLACED AT 50-FOOT MAXIMUM VERTICAL INTERVALS.

LEGEND

- APPROXIMATE PROPERTY BOUNDARY
- APPROXIMATE LIMIT OF REFUSE
- 1600 EXISTING GRADE CONTOUR
- 1500 FINISHED GRADE CONTOUR
- TOP OR TOE OF SLOPE
- PHASE LINER LIMIT

AERIAL TOPOGRAPHY DATE: 10-19-06

FIGURE 9

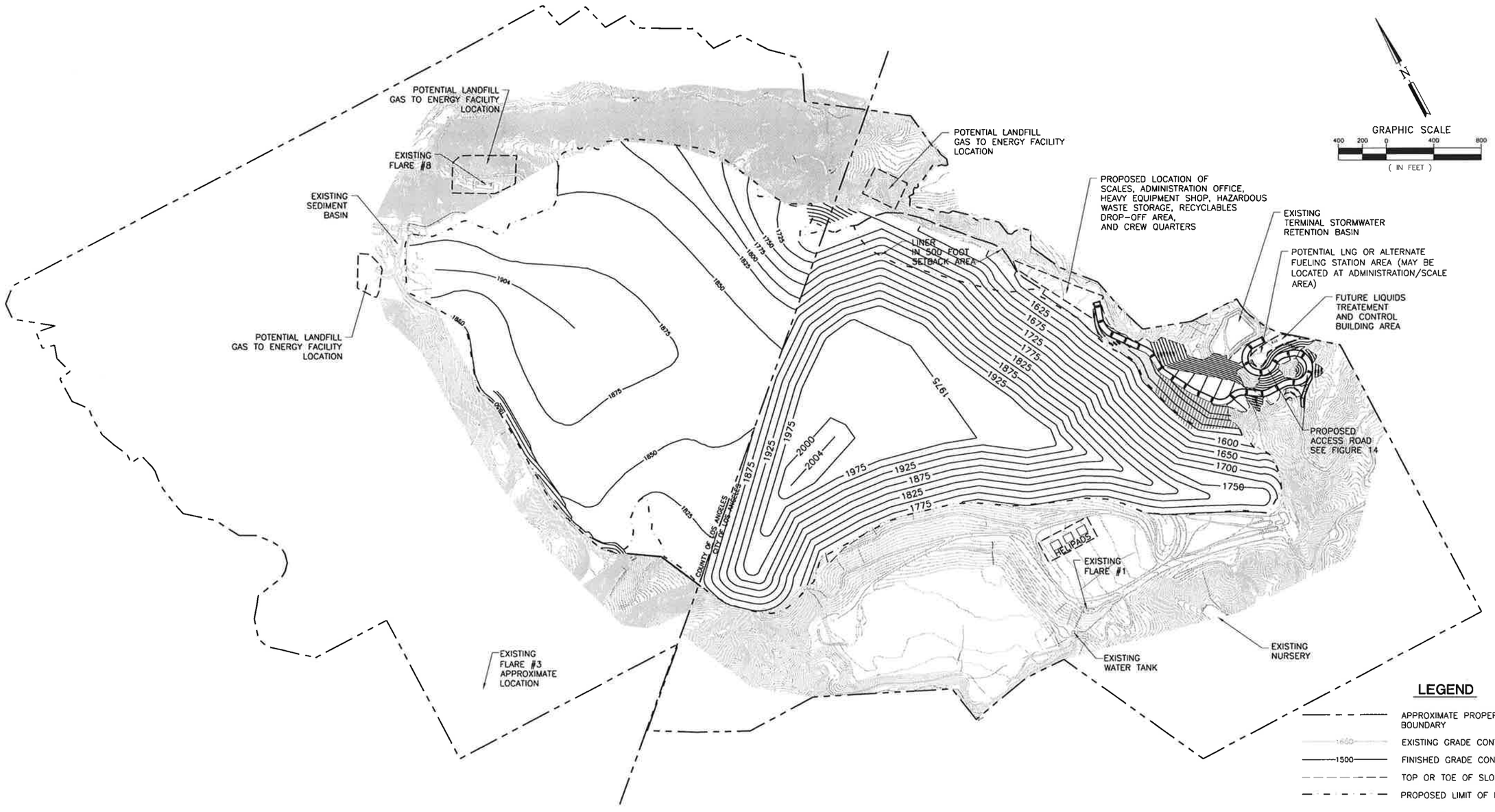
NO.	REVISION DESCRIPTION	BY:

BAS
BRYAN A. STIRRAT & ASSOCIATES
CONSULTING CIVIL & ENVIRONMENTAL ENGINEERS
1360 E. VALLEY VISTA DRIVE
DIAMOND BAR, CALIFORNIA 91765
(909) 860-7777

SUNSHINE CANYON LANDFILL JTD 2007
MASTER EXCAVATION PLAN

DESIGNED BY : R.M.G./J.M.B.	SCALE : AS SHOWN	
DRAWN BY : C.A.L.	DATE : 2-2008	FILE NO.: 172965DB.DWG
CHECKED BY : P.W.	DATE : 2-2008	
APPROVED BY :	DATE : 2-2008	

FOR PERMITTING PURPOSES ONLY NOT FOR CONSTRUCTION



AERIAL TOPOGRAPHY DATE: 10-19-06

FIGURE 13

NO.	REVISION DESCRIPTION	BY:

BAS
BRYAN A. STIRRAT & ASSOCIATES
CONSULTING CIVIL & ENVIRONMENTAL ENGINEERS
1360 E. VALLEY VISTA DRIVE
DIAMOND BAR, CALIFORNIA 91765
(909) 860-7777

SUNSHINE CANYON LANDFILL JTD 2007
PROPOSED SITE FACILITIES PLAN

DESIGNED BY : R.M.G./J.M.B.	SCALE : AS SHOWN	
DRAWN BY : C.A.L.	DATE : 2-2008	FILE NO.: 02275DB.DWG
CHECKED BY : P.W.	DATE : 2-2008	
APPROVED BY :	DATE : 2-2008	

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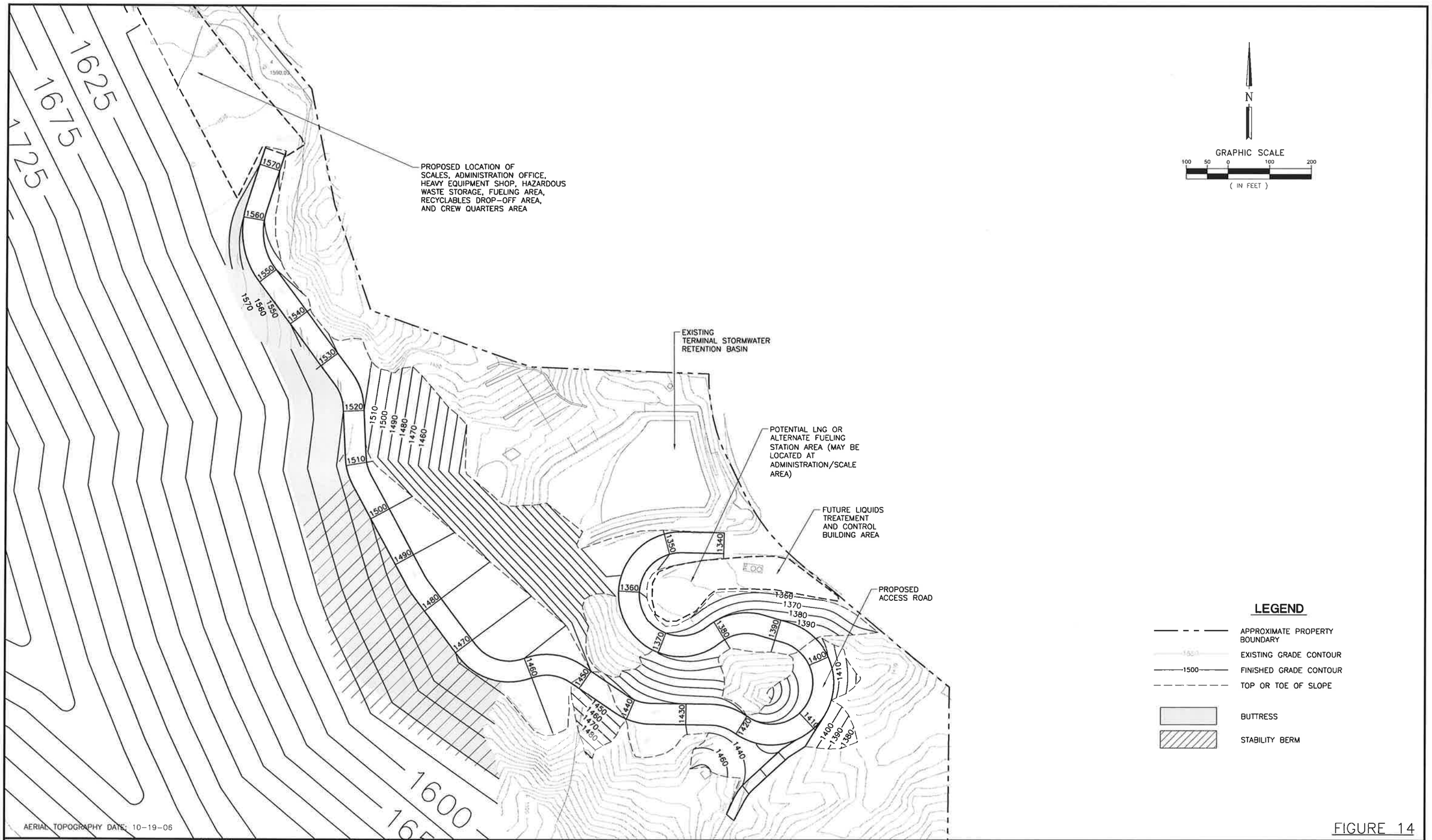


FIGURE 14

NO.	REVISION DESCRIPTION	BY:

BAS
BRYAN A. STIRRAT & ASSOCIATES
CONSULTING CIVIL & ENVIRONMENTAL ENGINEERS
1360 E. VALLEY VISTA DRIVE
DIAMOND BAR, CALIFORNIA 91765
(909) 860-7777

SUNSHINE CANYON LANDFILL JTD 2007
ACCESS ROAD

DESIGNED BY : R.M.G./J.M.B.	SCALE : AS SHOWN	
DRAWN BY : C.A.L.	DATE : 2-2008	FILE NO.: 172960DB.DWG
CHECKED BY : P.W.	DATE : 2-2008	
APPROVED BY :	DATE : 2-2008	

FOR PERMITTING PURPOSES ONLY NOT FOR CONSTRUCTION

N

GRAPHIC SCALE

300 150 0 300 600

(IN FEET)

LEGEND

- APPROXIMATE PROPERTY BOUNDARY
- APPROXIMATE LIMIT OF REFUSE
- EXISTING GRADE CONTOUR
- EXISTING LCRS PIPES
- PROPOSED LCRS PIPES

AERIAL TOPOGRAPHY DATED AS 10-19-06

FIGURE 15

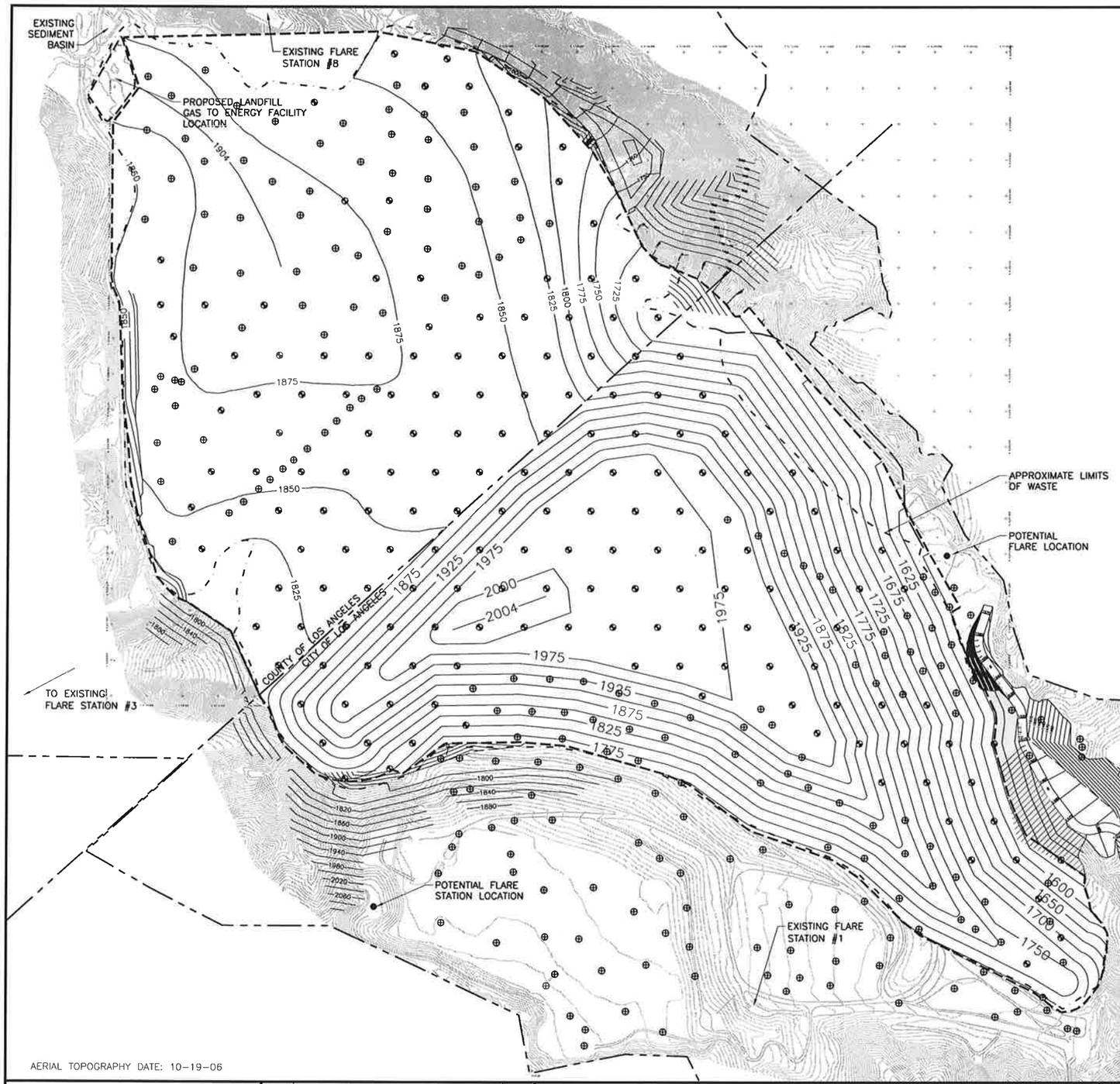
NO.	REVISION DESCRIPTION	BY:

BAS
BRYAN A. STIRRAT & ASSOCIATES
CONSULTING CIVIL & ENVIRONMENTAL ENGINEERS
1360 E. VALLEY VISTA DRIVE
DIAMOND BAR, CALIFORNIA 91765
(909) 860-7777

SUNSHINE CANYON LANDFILL JTD 2007
LCRS PLAN (EXISTING AND PROPOSED)

DESIGNED BY : R.M.G./J.M.B.	SCALE : AS SHOWN	
DRAWN BY : D.C.R.	DATE : 2-2008	FILE NO.: 25131DB.DWG
CHECKED BY : P.W.	DATE : 2-2008	
APPROVED BY :	DATE : 2-2008	

FOR PERMITTING PURPOSES ONLY NOT FOR CONSTRUCTION



N

GRAPHIC SCALE

300 150 0 300 600

(IN FEET)

LEGEND

- APPROXIMATE PROPERTY BOUNDARY
- 1500 EXISTING GRADE CONTOUR
- 1500 FINISHED GRADE CONTOUR
- TOP OR TOE OF SLOPE
- PROPOSED LIMIT OF REFUSE
- BUTTRESS
- STABILITY BERM
- EXISTING VERTICAL GAS EXTRACTION WELL (MAY HAVE TO BE REPLACED OR EXTENDED AS LANDFILL EXPANDS)
- PROPOSED VERTICAL GAS EXTRACTION WELL

NOTES:
1. EXISTING AND PROPOSED HORIZONTAL GAS COLLECTORS NOT SHOWN.

AERIAL TOPOGRAPHY DATE: 10-19-06

FIGURE 18

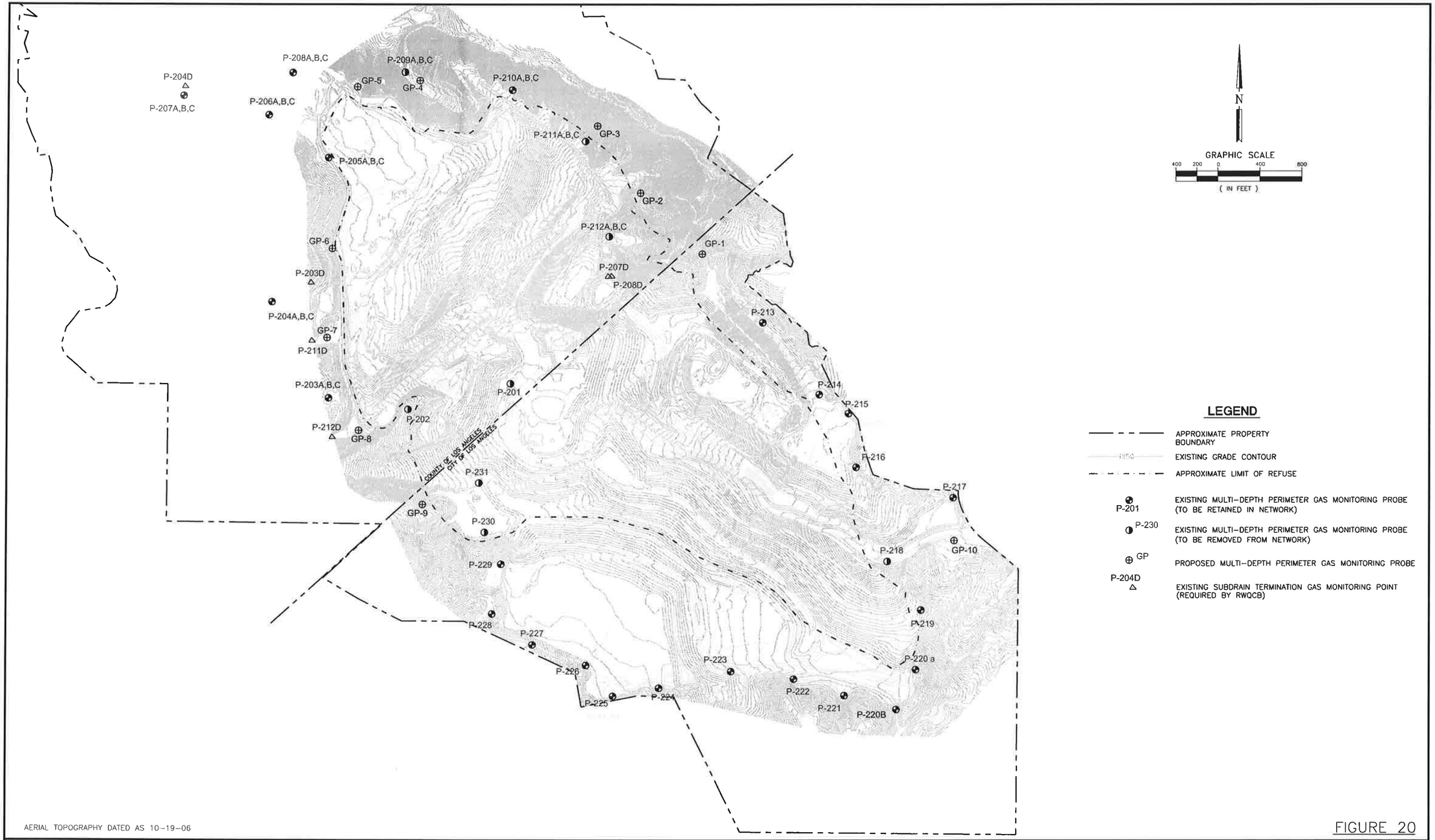
NO.	REVISION DESCRIPTION	BY:

BAS
BRYAN A. STIRRAT & ASSOCIATES
CONSULTING CIVIL & ENVIRONMENTAL ENGINEERS
1360 E. VALLEY VISTA DRIVE
DIAMOND BAR, CALIFORNIA 91765
(909) 860-7777

SUNSHINE CANYON LANDFILL JTD 2007
EXISTING AND PROPOSED LFG COLLECTION SYSTEM

DESIGNED BY : R.M.G./J.M.B.	SCALE : AS SHOWN	
DRAWN BY : C.A.L.	DATE : 2-2008	FILE NO.: 86406DB.DWG
CHECKED BY : P.W.	DATE : 2-2008	
APPROVED BY :	DATE : 2-2008	

FOR PERMITTING PURPOSES ONLY NOT FOR CONSTRUCTION



LEGEND

- APPROXIMATE PROPERTY BOUNDARY
- 1870 EXISTING GRADE CONTOUR
- APPROXIMATE LIMIT OF REFUSE
- P-201 EXISTING MULTI-DEPTH PERIMETER GAS MONITORING PROBE (TO BE RETAINED IN NETWORK)
- P-230 EXISTING MULTI-DEPTH PERIMETER GAS MONITORING PROBE (TO BE REMOVED FROM NETWORK)
- GP PROPOSED MULTI-DEPTH PERIMETER GAS MONITORING PROBE
- P-204D EXISTING SUBDRAIN TERMINATION GAS MONITORING POINT (REQUIRED BY RWQCB)

AERIAL TOPOGRAPHY DATED AS 10-19-06

FIGURE 20

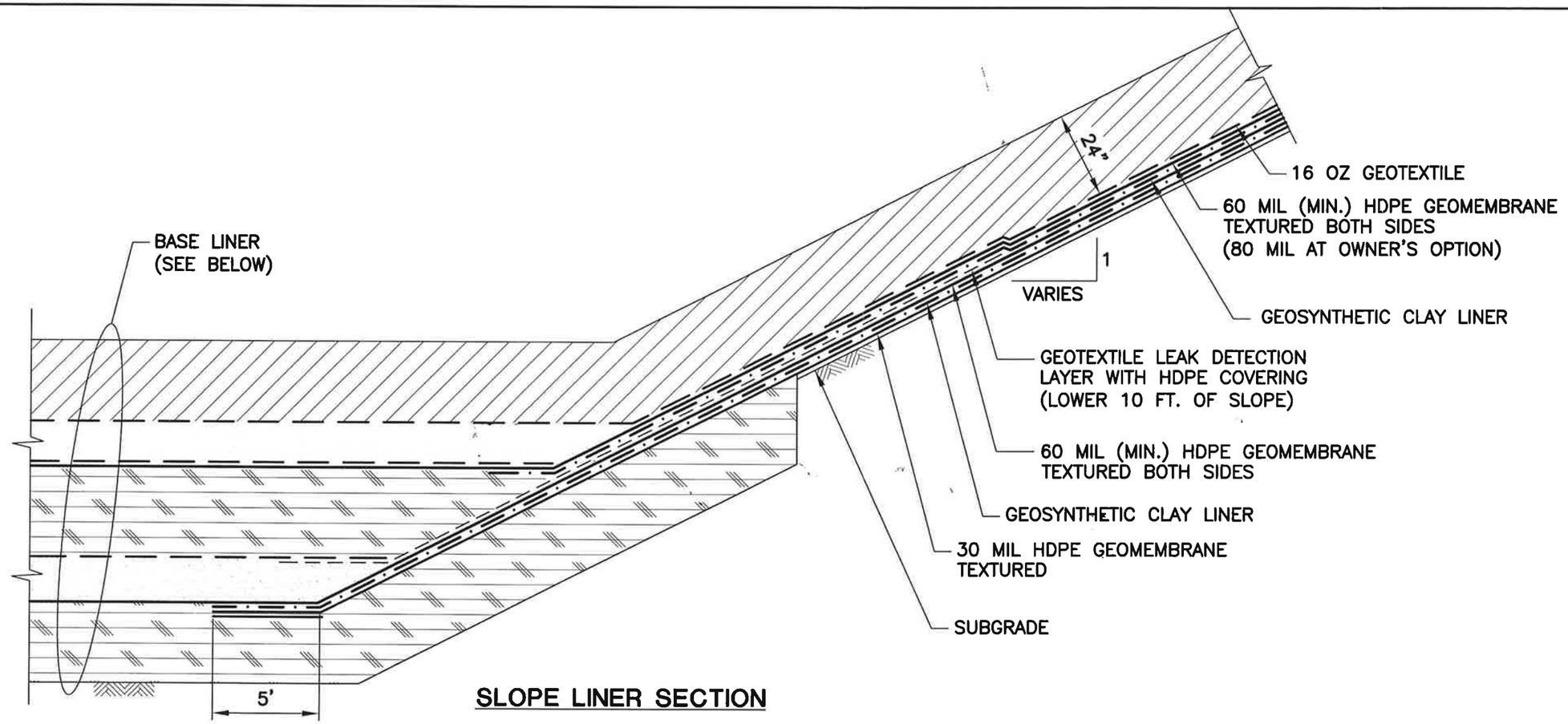
NO.	REVISION DESCRIPTION	BY:

BAS
BRYAN A. STIRRAT & ASSOCIATES
CONSULTING CIVIL & ENVIRONMENTAL ENGINEERS
1360 E. VALLEY VISTA DRIVE
DIAMOND BAR, CALIFORNIA 91765
(909) 860-7777

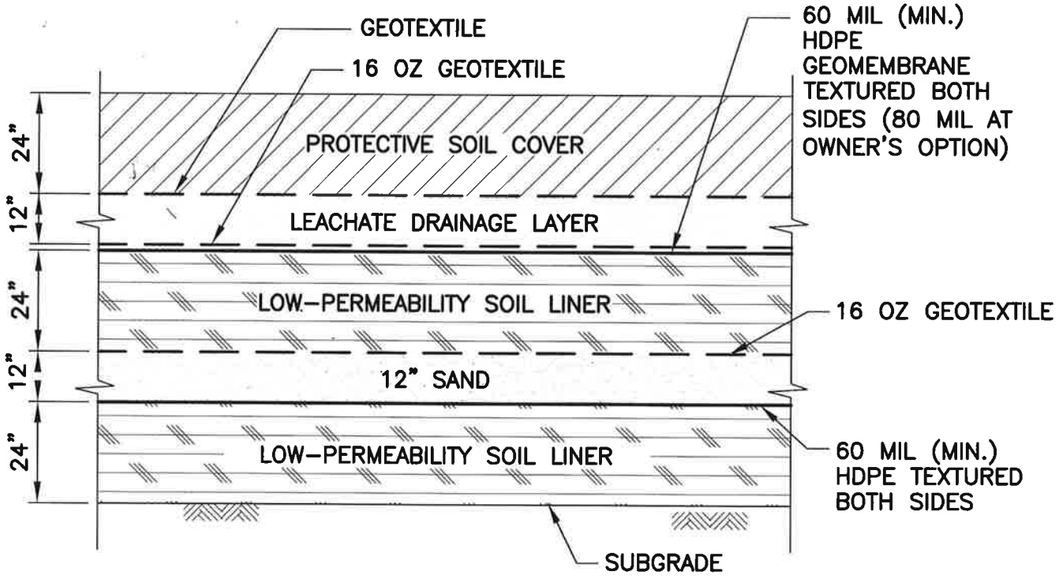
SUNSHINE CANYON LANDFILL JTD 2007
ENVIRONMENTAL CONTROL SYSTEMS
GAS MONITORING

DESIGNED BY : R.M.G./J.M.B.	SCALE : AS SHOWN	
DRAWN BY : C.A.L.	DATE : 2-2008	FILE NO.: 09197DB.DWG
CHECKED BY : P.W.	DATE : 2-2008	
APPROVED BY :	DATE : 2-2008	

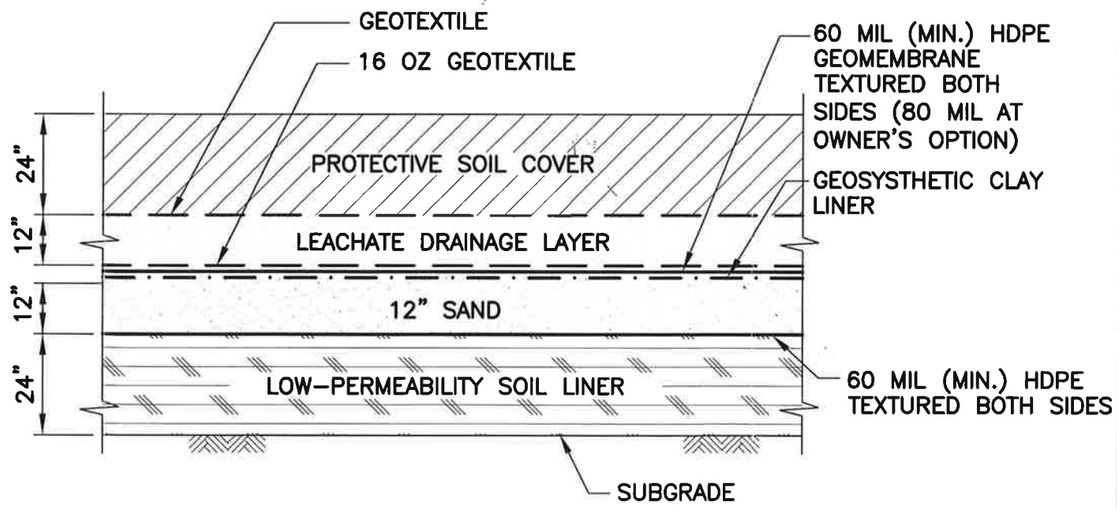
FOR PERMITTING PURPOSES ONLY NOT FOR CONSTRUCTION



SLOPE LINER SECTION



BASE LINER SECTION



ALTERNATIVE BASE LINER SECTION

FIGURE 23

JOB NO. 2001.0103
DATE 10-2006
DRAWN BY C.A.L.
FILE NAME: 172886DB

SUNSHINE CANYON LANDFILL

LINER SECTIONS

(909) 860-7777
BRYAN A. STIRRAT & ASSOCIATES
CIVIL AND ENVIRONMENTAL ENGINEERS
1360 VALLEY VISTA DRIVE DIAMOND BAR, CA 91765

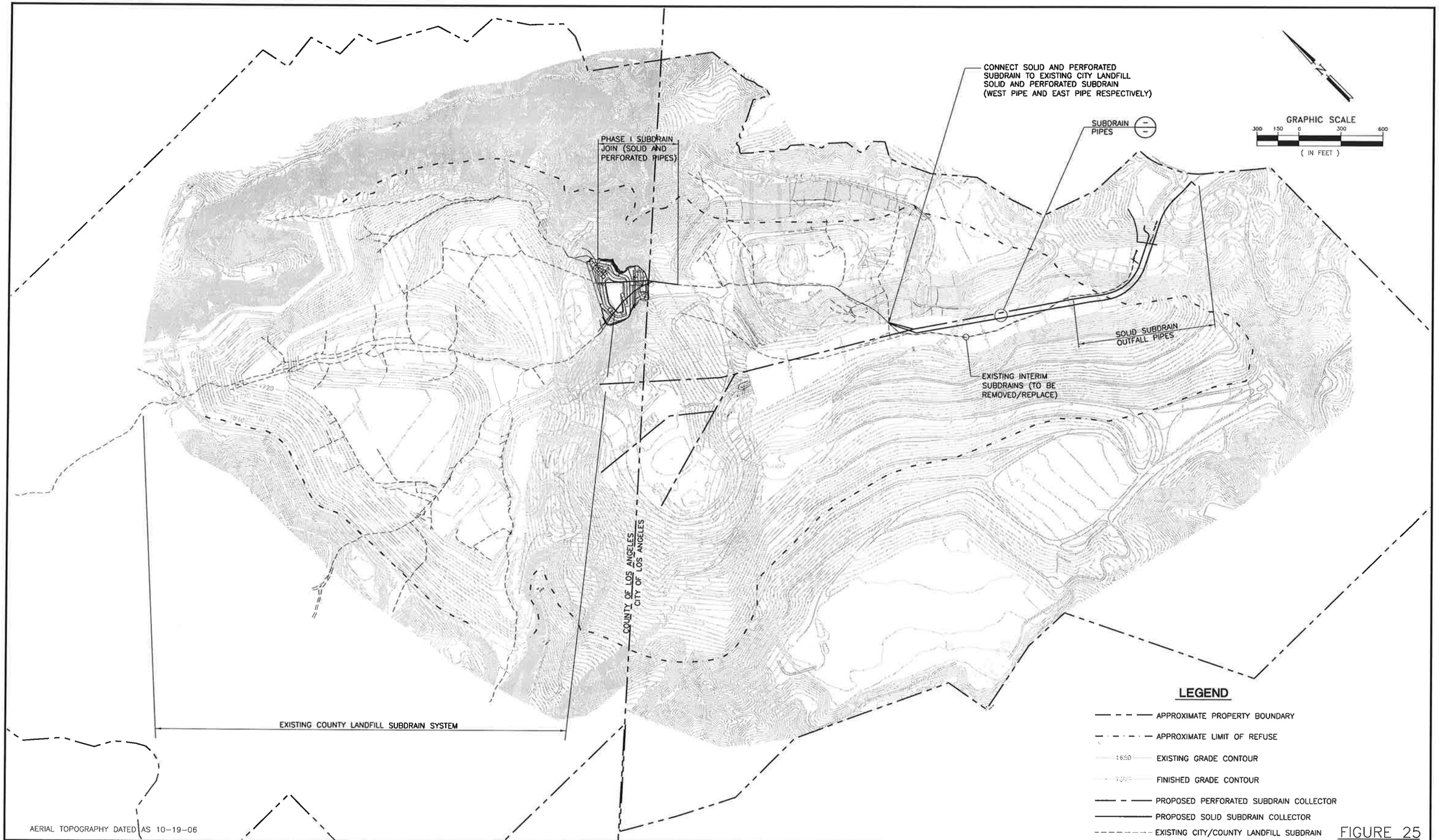


FIGURE 25

NO.	REVISION DESCRIPTION	BY:

BAS
BRYAN A. STIRRAT & ASSOCIATES
CONSULTING CIVIL & ENVIRONMENTAL ENGINEERS
1360 E. VALLEY VISTA DRIVE
DIAMOND BAR, CALIFORNIA 91765
(909) 860-7777

SUNSHINE CANYON LANDFILL JTD 2007
SUBDRAIN MASTER PLAN

DESIGNED BY : R.M.G./J.M.B.	SCALE : AS SHOWN	
DRAWN BY : D.C.R.	DATE : 2-2008	FILE NO.: 28480DB.DWG
CHECKED BY : P.W.	DATE : 2-2008	
APPROVED BY :	DATE : 2-2008	

FOR PERMITTING PURPOSES ONLY NOT FOR CONSTRUCTION

NOTES:

1) PORTIONS OF PHASE CC-I ARE BEING CONSTRUCTED UNDER EXISTING SCL CITY AND SCL COUNTY PERMIT NUMBERS 19-AR-0002-2 AND 19-AA-0853 RESPECTIVELY.

2) BASE LINER GRADES ARE TOP OF LINER GRADE. LINER AND SUBDRAIN COMPONENTS TO BE PLACED 5 TO 8-FEET BELOW CONTOURS SHOWN.

3) BENCHES HAVE BEEN OMITTED FOR CLARITY ON THIS PLANNING DOCUMENT. BENCHES 15-FOOT MINIMUM WIDTH WILL BE PLACED AT 50-FOOT MAXIMUM VERTICAL INTERVALS.

LEGEND

- APPROXIMATE PROPERTY BOUNDARY
- APPROXIMATE LIMIT OF REFUSE
- 1530 EXISTING GRADE CONTOUR
- 1500 FINISHED GRADE CONTOUR
- TOP OR TOE OF SLOPE
- PHASE LINER LIMIT
- EXISTING LINER LIMIT

AERIAL TOPOGRAPHY DATE: 10-19-06

FIGURE 35

NO.	REVISION DESCRIPTION	BY:

BAS
BRYAN A. STIRRAT & ASSOCIATES
CONSULTING CIVIL & ENVIRONMENTAL ENGINEERS
1360 E. VALLEY VISTA DRIVE
DIAMOND BAR, CALIFORNIA 91765
(909) 860-7777

SUNSHINE CANYON LANDFILL JTD 2007
PHASE CC-III EXCAVATION

DESIGNED BY : R.M.G./J.M.B.	SCALE : AS SHOWN		
DRAWN BY : C.A.L.	DATE : 2-2008	FILE NO.: 28453DB.DWG	
CHECKED BY : P.W.	DATE : 2-2008		
APPROVED BY :	DATE : 2-2008		

FOR PERMITTING PURPOSES ONLY NOT FOR CONSTRUCTION

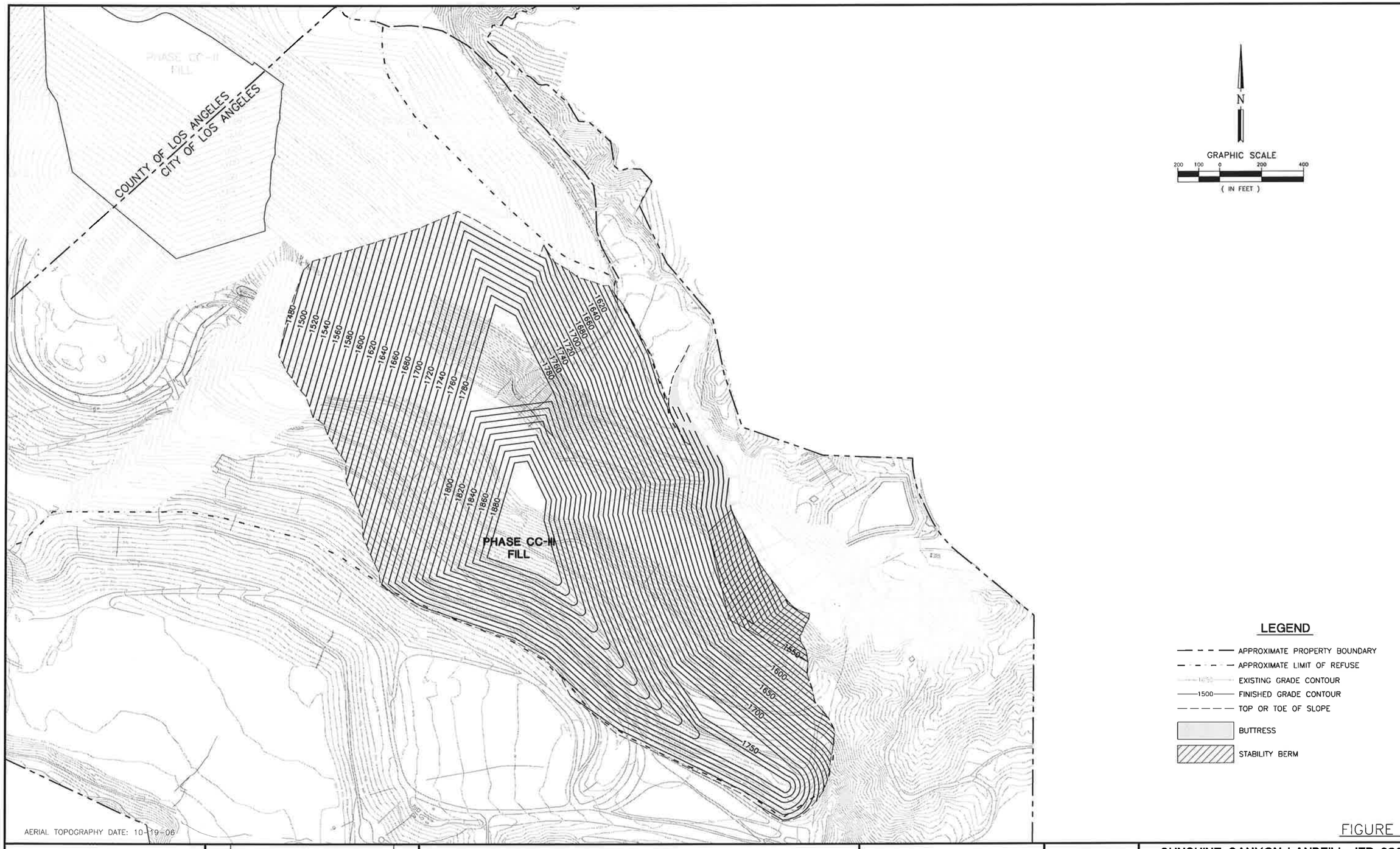


FIGURE 36

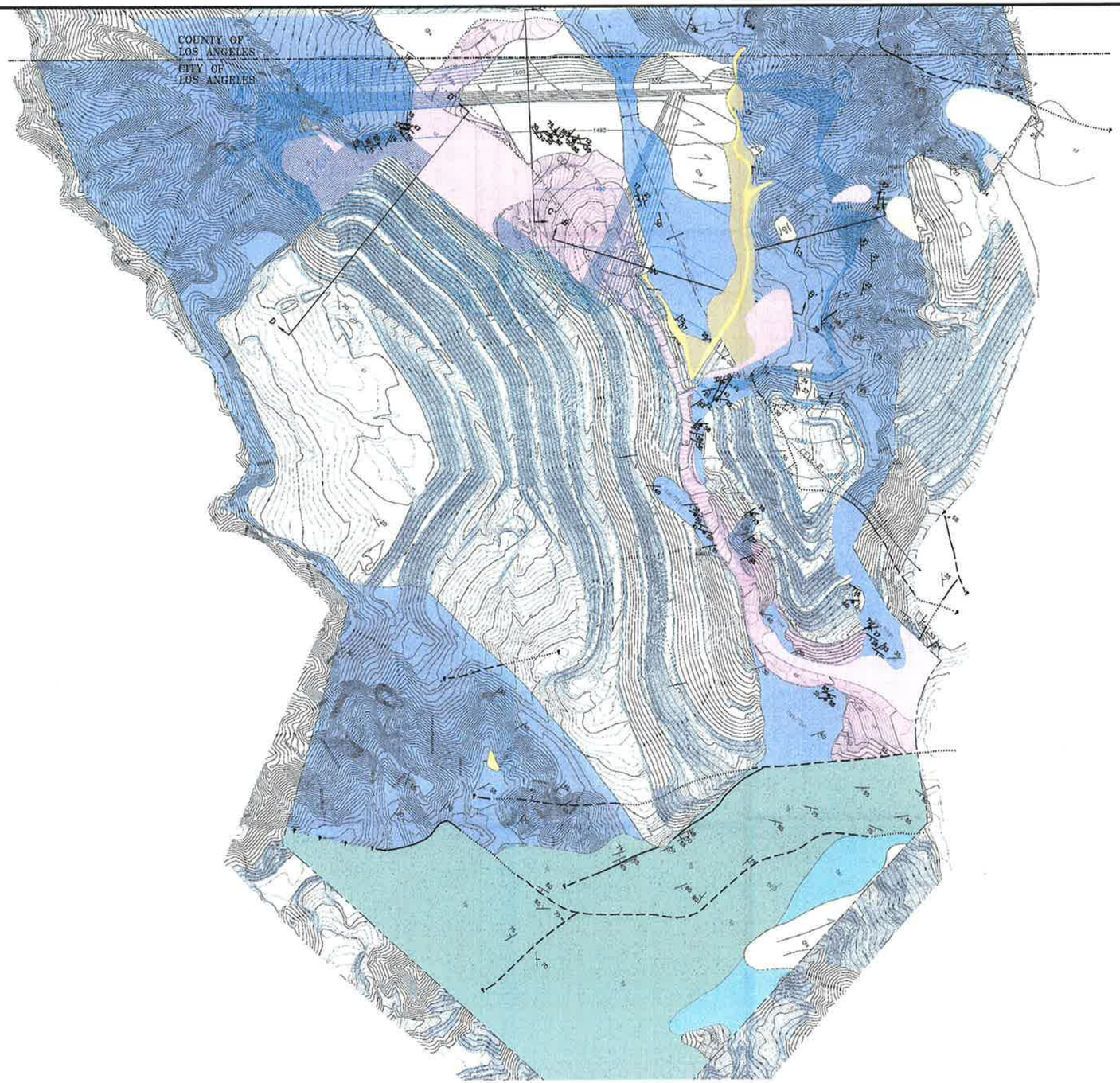
NO.	REVISION DESCRIPTION	BY:

BAS
BRYAN A. STIRRAT & ASSOCIATES
CONSULTING CIVIL & ENVIRONMENTAL ENGINEERS
1360 E. VALLEY VISTA DRIVE
DIAMOND BAR, CALIFORNIA 91765
(909) 860-7777

SUNSHINE CANYON LANDFILL JTD 2007
PHASE CC-III FILL

DESIGNED BY : R.M.G./J.M.B.	SCALE : AS SHOWN	
DRAWN BY : C.A.L.	DATE : 2-2008	FILE NO.: 271245DB.DWG
CHECKED BY : P.W.	DATE : 2-2008	
APPROVED BY :	DATE : 2-2008	

FOR PERMITTING PURPOSES ONLY NOT FOR CONSTRUCTION



LEGEND

- EXISTING GROUND ELEVATION (FEET ABOVE M.S.L. PROVIDED BY A-MEHR INC. 2001)
- PROPOSED BASE GRADING
- CITY/COUNTY LINE

QUATERNARY

- rf/ — REFUSE/UNDERLYING UNIT DESIGNATED
- ARTIFICIAL FILL (ENGINEERED FILL)
- ARTIFICIAL FILL (UNCONTROLLED FILL)/UNDERLYING UNIT DESIGNATED
- Qls — LANDSLIDE DEBRIS
- Qal — YOUNGER ALLUVIUM
- Qoal — OLDER ALLUVIUM
- Qcol — COLLUVIUM

TERTIARY

- Tsr — SAUGUS FORMATION
- Tp — PICO FORMATION
- Ttss — TOWSLEY FORMATION, SANDSTONE
- Ttsh — TOWSLEY FORMATION, SHALE
- Ttsu/Ttsh — TOWSLEY FORMATION, UNDIFFERENTIATED

- GEOLOGIC CONTACT / DASHED WHERE UNCERTAIN / DOTTED WHERE CONCEALED
- FAULT / DASHED WHERE UNCERTAIN / DOTTED WHERE CONCEALED
- ANTICLINE/DOTTED WHERE CONCEALED
- SYNCLINE/DOTTED WHERE CONCEALED
- MAPPED LIMITS OF LANDSLIDE, ARROWS INDICATE DIRECTION OF MOVEMENT / DASHED WHERE UNCERTAIN / DOTTED WHERE CONCEALED (LANDSLIDES INTERPRETED FROM AERIAL PHOTOGRAPHS, ON SITE MAPPING, ARCHIVE TOPOGRAPHY, AND FROM PRA GEOLOGIC MAP [1991])
- STRIKE AND DIP OF BEDDING (PRA, [1991] MAPPING IN BLACK; GEOSYNTEC, [1998 & 2002] MAPPING IN BOLD; CONCEALED BEDDING IN GRAY)
- STRIKE AND DIP OF SHEAR OR FAULT (PRA, [1991] MAPPING IN BLACK; GEOSYNTEC, [1998 & 2002] MAPPING IN BOLD)
- STRIKE AND DIP OF OVERTURNED BEDDING (PRA, [1991] MAPPING IN BLACK)
- STRIKE AND DIP OF JOINT (GEOSYNTEC, [1998 & 2002] MAPPING IN BOLD)
- A — A' — GEOLOGIC CROSS SECTION LOCATION

NOTES:

1. PRA GEOLOGIC MAP [1991] SUPPLEMENTED WITH GEOSYNTEC MAPPING [1998 & 2002].
2. FOR GEOLOGIC CROSS SECTIONS AA', BB', CC', AND DD' SEE FIGURE 44A.

200 100 0 200 400
SCALE IN FEET

SOURCE: GEOSYNTEC CONSULTANTS (OCTOBER 2002)

FIGURE 44

NO.	REVISION DESCRIPTION	BY:

BAS
BRYAN A. STIRRAT & ASSOCIATES
CONSULTING CIVIL & ENVIRONMENTAL ENGINEERS
1360 E. VALLEY VISTA DRIVE
DIAMOND BAR, CALIFORNIA 91765
(909) 860-7777

SUNSHINE CANYON LANDFILL JTD 2007
SITE GEOLOGIC MAP
PHASE 1 OF CITY LANDFILL UNIT 2

DESIGNED BY :	N/A	SCALE : AS SHOWN	
DRAWN BY :	BRA	DATE : 2-2008	FILE NO.: 173248DB.DWG
CHECKED BY :	PW	DATE : 2-2008	
APPROVED BY :		DATE :	

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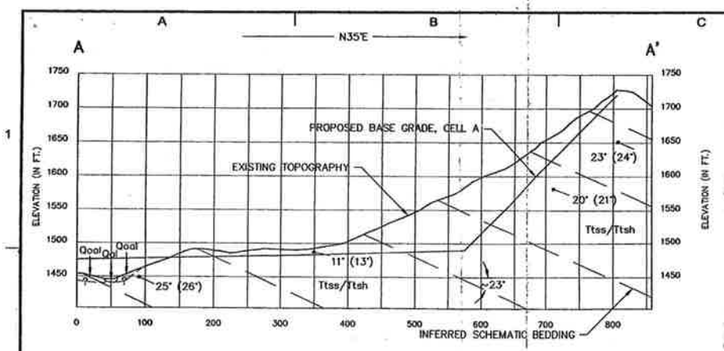

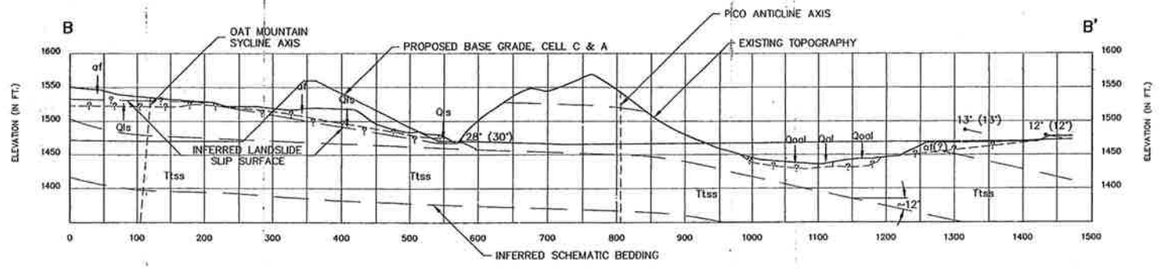

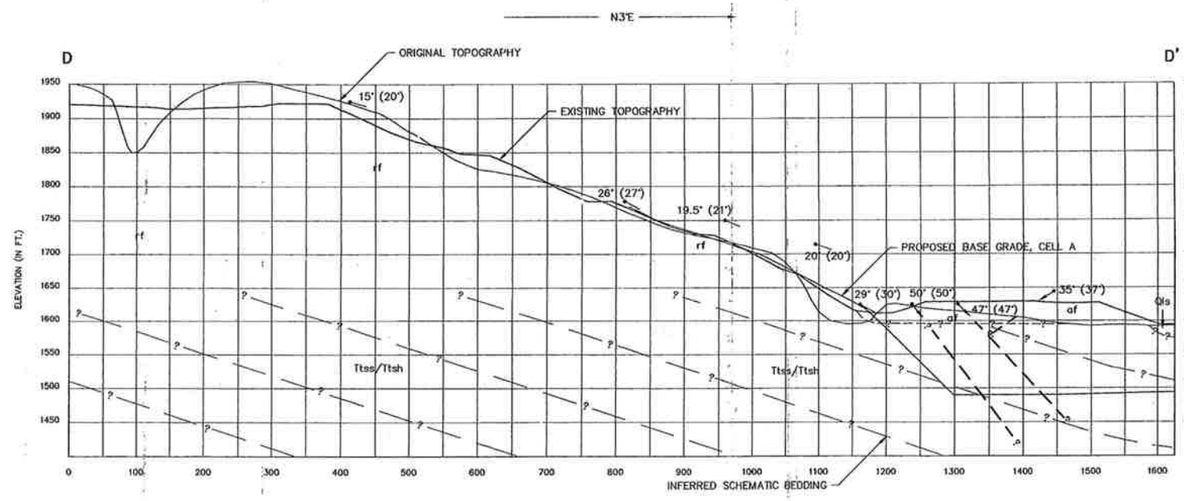

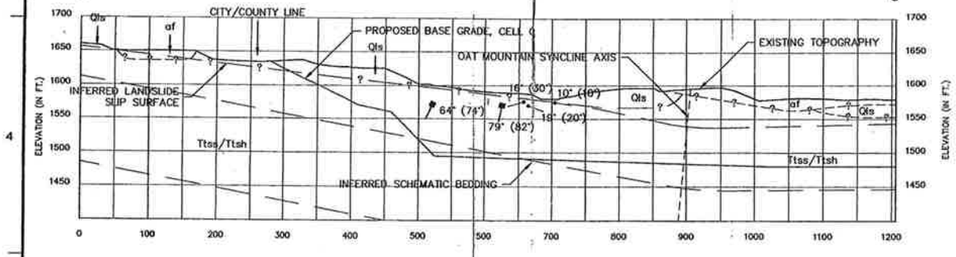

LEGEND

- ORIGINAL TOPOGRAPHY (PRA, 1988)
- EXISTING TOPOGRAPHY
- PROPOSED BASE GRADE
- INFERRED BEDDING PLANE

QUATERNARY

- rf — REFUSE FILL
- af/ — ARTIFICIAL FILL (ENGINEERED FILL)/UNDERLYING UNIT DESIGNATED
- Qls — LANDSLIDE DEBRIS
- Qal — YOUNGER ALLUVIUM
- Qoal — OLDER ALLUVIUM

TERTIARY

- Ttss — TOWSLEY FORMATION, SANDSTONE
- Ttsh — TOWSLEY FORMATION, SHALE
- Ttss/Ttsh — TOWSLEY FORMATION, UNDIFFERENTIATED
- 17° (20°) — APPARENT DIP (TRUE DIP); DIP PROJECTED ALONG STRIKE INTO CROSS-SECTION FROM MAPPING DATA
- 64° (74°) — JOINT APPARENT DIP (TRUE DIP): DIP PROJECTED ALONG STRIKE INTO CROSS-SECTION FROM MAPPING DATA
- 10° (14°) — SHEAR APPARENT DIP (TRUE DIP): DIP PROJECTED ALONG STRIKE INTO CROSS-SECTION FROM MAPPING DATA

NOTE: FOR CROSS SECTION LOCATIONS SEE DRAWING 3A.

100 50 0 100 200
SCALE IN FEET
VERTICAL = HORIZONTAL

SOURCE: GEOSYNTEC CONSULTANTS (OCTOBER 2002)

FIGURE 44A

NO.	REVISION DESCRIPTION	BY:

BAS
BRYAN A. STIRRAT & ASSOCIATES
CONSULTING CIVIL & ENVIRONMENTAL ENGINEERS
1360 E. VALLEY VISTA DRIVE
DIAMOND BAR, CALIFORNIA 91765
(909) 860-7777

SUNSHINE CANYON LANDFILL JTD 2007
GEOLOGIC CROSS SECTIONS
PHASE 1 OF CITY LANDFILL UNIT 2

DESIGNED BY :	N/A	SCALE : AS SHOWN	
DRAWN BY :	BRA	DATE : 2-2008	FILE NO.: 173244DB.DWG
CHECKED BY :	PW	DATE : 2-2008	
APPROVED BY :		DATE :	

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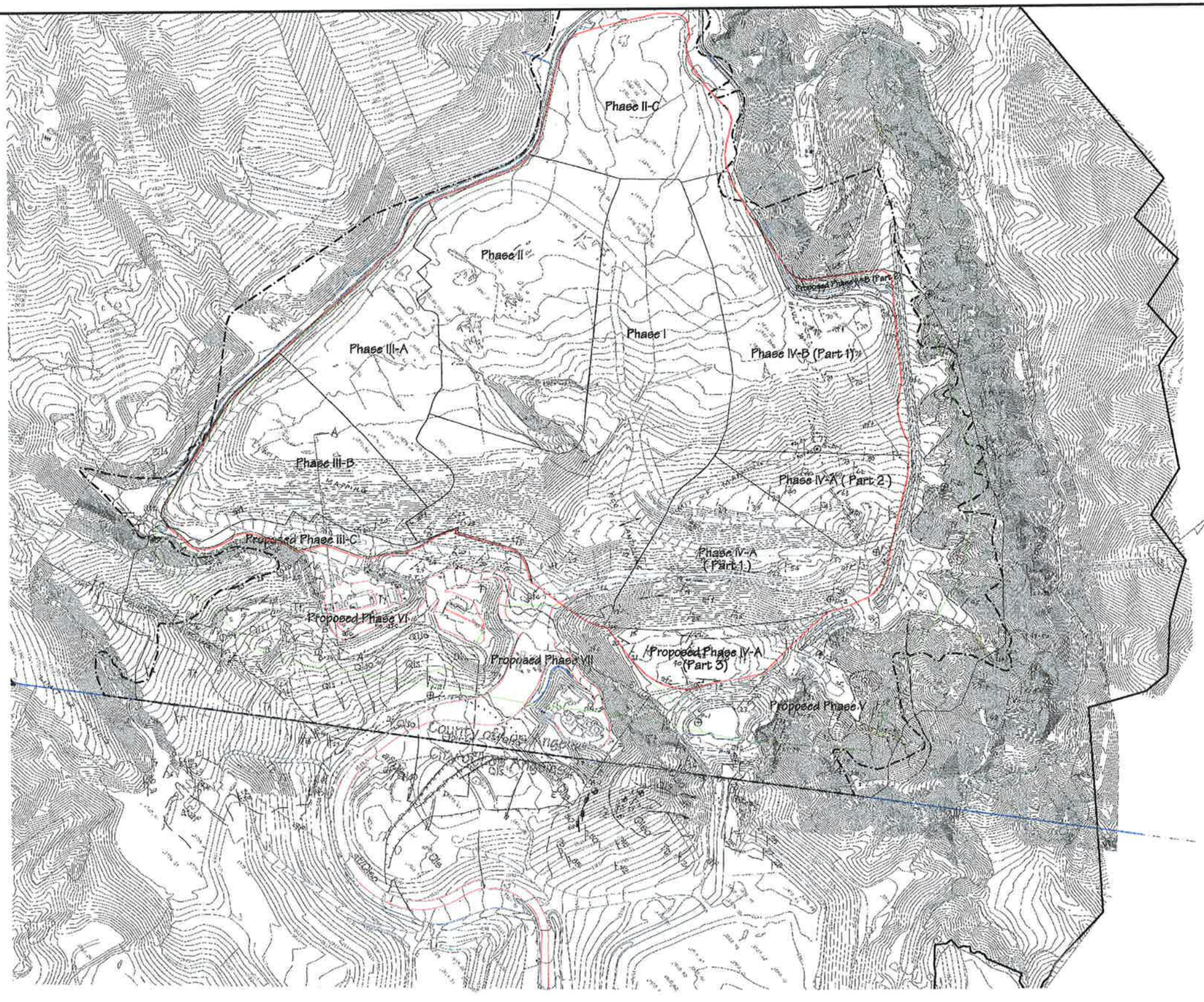


EXPLANATION

af ; afc ; aft	Man-made (artificial) fill; (afc) compacted; (afi) fill + trash
Qls; Qlso	Landslide materials; (Qlso) older landslide materials
Qcol	Colluvium
Tt	Towsley Formation, chiefly sandstone and siltstone beds; (∴) sandstone
30	Strike and dip of beds; (⊣) vertical beds
70	Strike and dip of beds now concealed beneath fill
80	Strike and dip of joints; (⊣) vertical joint
60	Fault, approximately located, dotted where concealed, showing strike and dip where measured
	Geologic contact, approximately located, dotted where concealed
	Creep of near-surface materials
	Tension cracks
Qls	Landslide, arrows show approximate movement direction
B-3	Bucket auger boring (A-Mehr, 2005), showing strike and dip of slip surface with depth of measurement
P-16	Hollow stem auger boring (The Earth Technology Corp., 1988)
B-3A	Rotary wash boring (The PRA Group, Inc., 1990-1991)
DH-6	Rotary wash boring (The PRA Group, Inc., 1991)
B-GT-1	Bucket auger boring (Geosyntec Consultants, 2001)
P-211	Hollow stem auger (Geosyntec Consultants, 1999)

Legend :

Property Boundary
Limit of Liner / Limit of Waste
Existing Grades as of 6/28/2006

GRAPHIC SCALE 1"=200'
0 200 400 600

FIGURE 45

SOURCE: A-MEHR INC. (OCTOBER 2006)

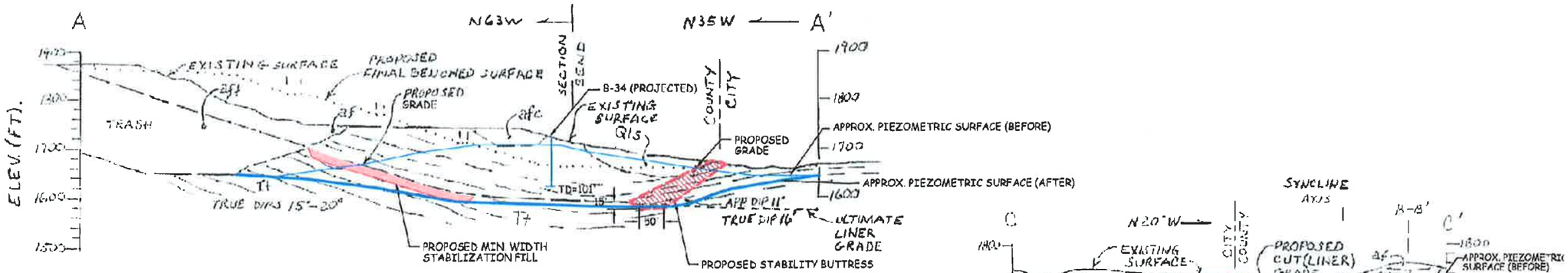
NO.	REVISION DESCRIPTION	BY:

BAS
BRYAN A. STIRRAT & ASSOCIATES
CONSULTING CIVIL & ENVIRONMENTAL ENGINEERS
1360 E. VALLEY VISTA DRIVE
DIAMOND BAR, CALIFORNIA 91765
(909) 860-7777

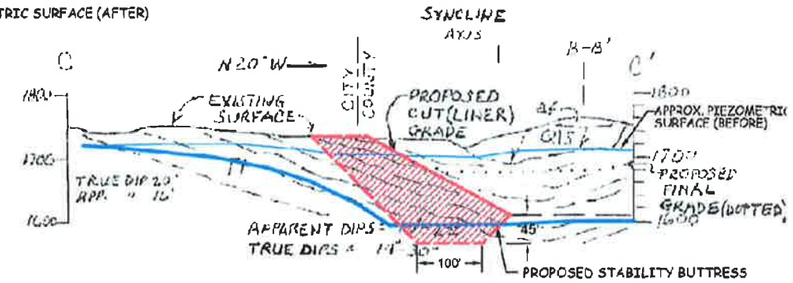
SUNSHINE CANYON LANDFILL JTD 2007
GEOLOGIC MAP
SUNSHINE CANYON COUNTY LANDFILL

DESIGNED BY :	N/A	SCALE : AS SHOWN	
DRAWN BY :	BRA	DATE : 2-2008	FILE NO.: 173249DB.DWG
CHECKED BY :	PW	DATE : 2-2008	
APPROVED BY :		DATE :	

FOR PERMITTING PURPOSES ONLY NOT FOR CONSTRUCTION



SECTION A-A'



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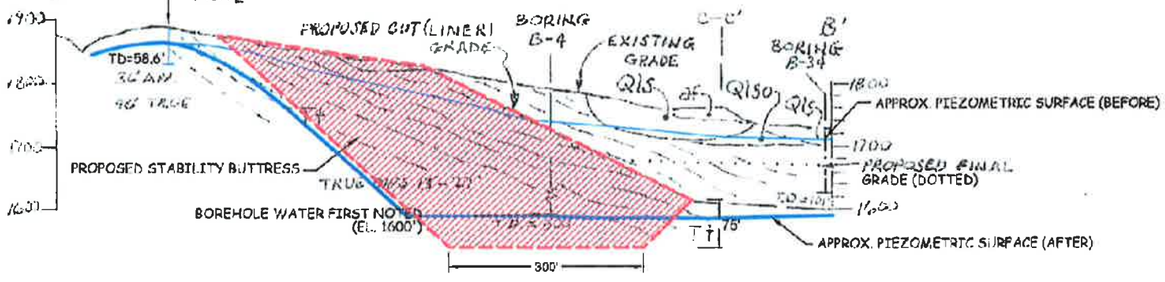
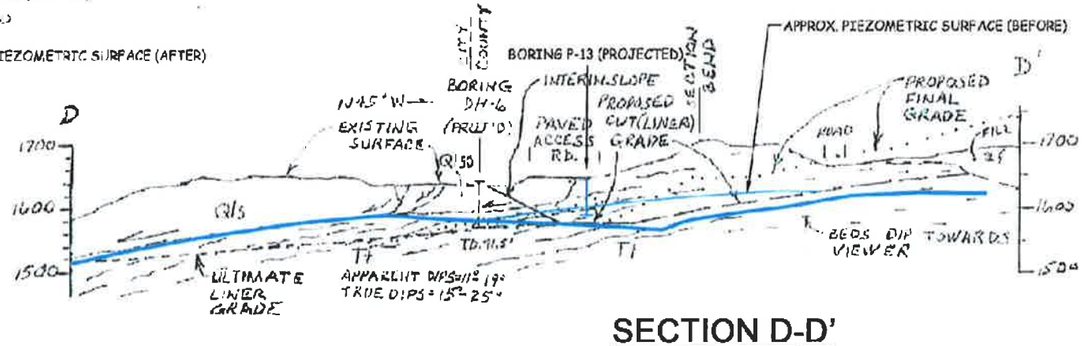


SECTION B-B'



SECTION D-D'

Notes:

1. All stabilization buttresses should be benched into bedrock in accordance with standard grading practice.
2. Subdrains are to be placed behind all stabilization and buttress fills in accordance with standard engineering practice.
3. Cross-section locations are indicated on Figures 3, 3A, and 3B.

SOURCE: A–MEHR INC. (JANUARY 2006)

FIGURE 45A

JOB NO. 2008.0014
DATE 2–2008
DRAWN BY BRA
FILE NAME: 173246DB

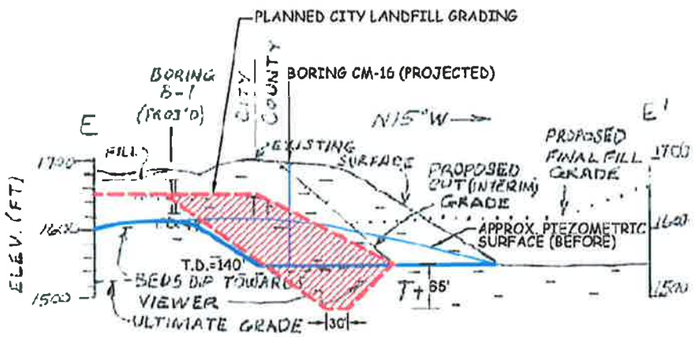
SUNSHINE CANYON LANDFILL

GEOLOGIC SECTIONS A-A' THROUGH D-D'

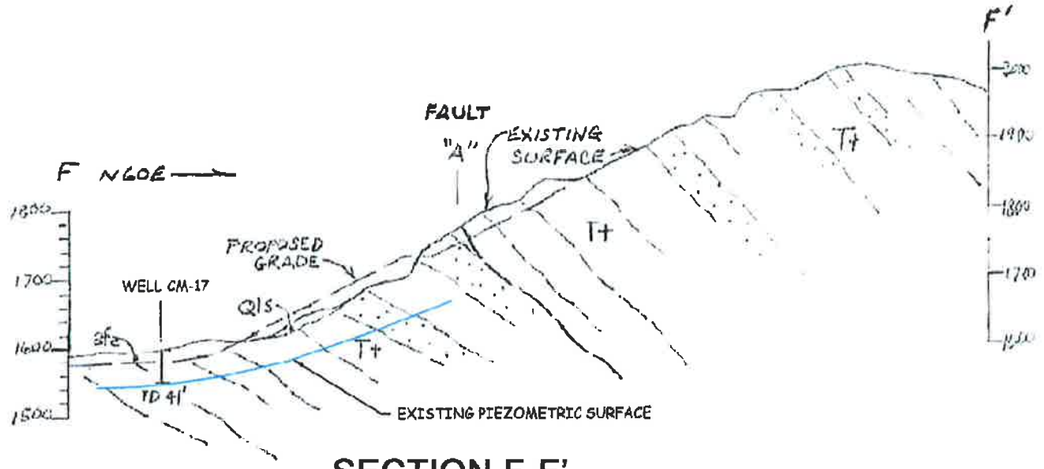
SUNSHINE CANYON COUNTY LANDFILL

BAS
BRYAN A. STIRRAT & ASSOCIATES
CIVIL AND ENVIRONMENTAL ENGINEERS
1360 VALLEY VISTA DRIVE DIAMOND BAR, CA 91765
(909) 860–7777

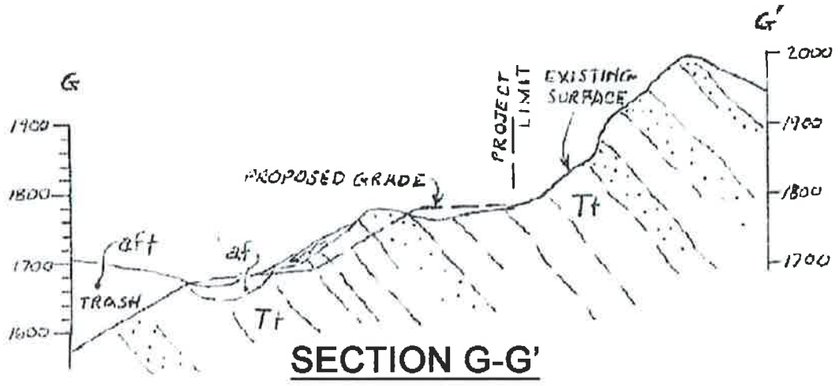
8/06
PD
8/29 UPDATED



SECTION E-E'



SECTION F-F'



SECTION G-G'

Notes:

1. All stabilization buttresses should be benched into bedrock in accordance with standard grading practice.
2. Subdrains are to be placed behind all stabilization and buttress fills in accordance with standard engineering practice.
3. Cross-section locations are indicated on Figures 3, 3A, and 3B.

SOURCE: A-MEHR INC. (JANUARY 2006)

FIGURE 45B

JOB NO. 2008.0014
DATE 2-2008
DRAWN BY BRA
FILE NAME: 173247DB

SUNSHINE CANYON LANDFILL

GEOLOGIC SECTIONS E-E' THROUGH G-G'
SUNSHINE CANYON COUNTY LANDFILL

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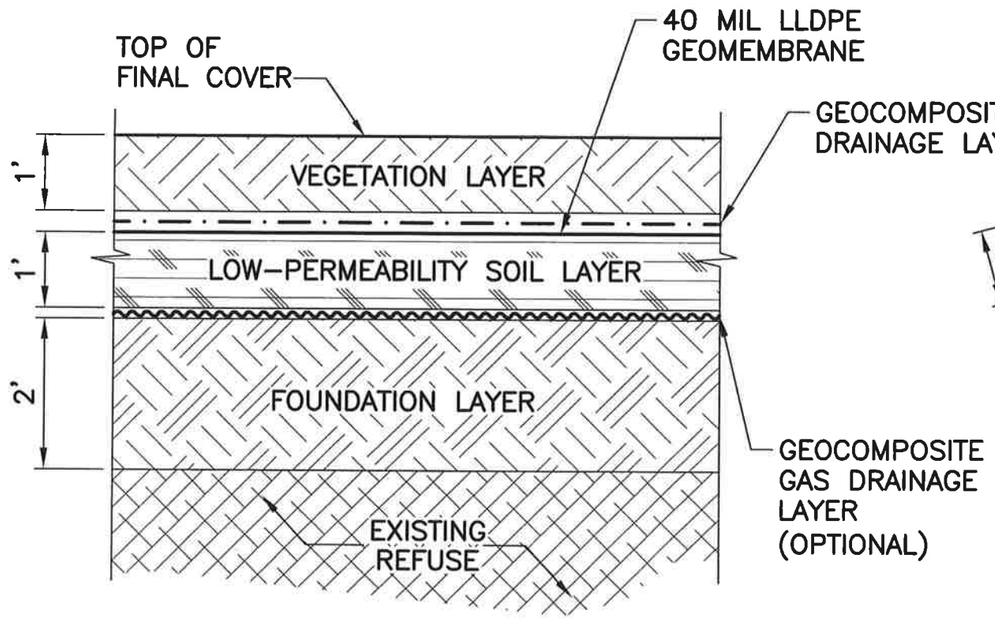
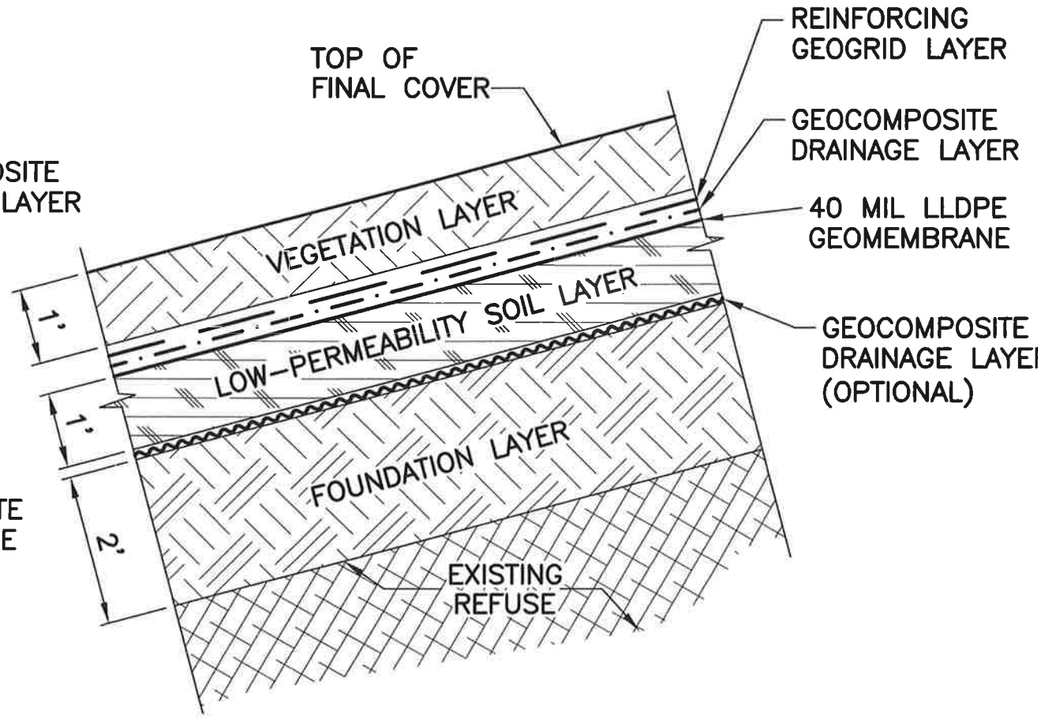


DECK COVER SECTION



SLOPE COVER SECTION

FIGURE 48

JOB NO. 2007.0002
DATE 6-2007
DRAWN BY C.A.L.
FILE NAME: 172887DB

SUNSHINE CANYON LANDFILL

FINAL COVER SECTION

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