1565228 (1)

SEC. 1 TWP. 35 S. RNG. 18 E.

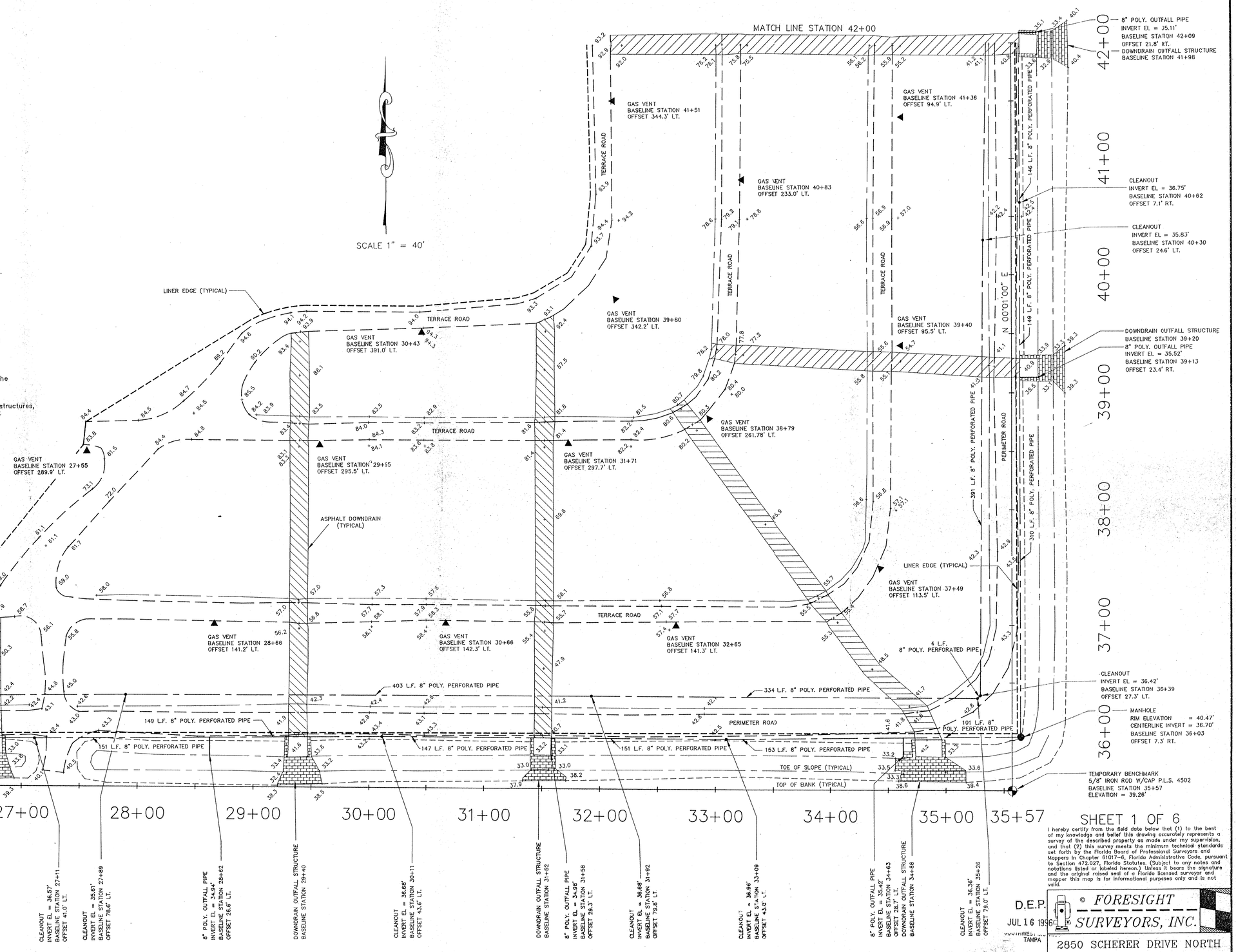
AN AS-BUILT SURVEY

OF THE LENA ROAD LANDFILL
MANATEE COUNTY, FLORIDA

1. This drawing is not intended to represent a boundary survey.
2. Benchmark Used: B.M. #1, a 60d nail in the north side of Power Pole #5-2177-5271, at the Southest Corner of Phase I. Elevation = 40.58'. as supplied by the Manatee County Survey Department.
3. Basis of bearing: N 0°01'00" E; as defined by baseline coordinates found on sheets 4 of 12 through 8 of 12 of the Construction Plans. Project # 480-4632-534, as supplied by the Manatee County Public Works Department. Manatee County, Florida.
4. This survey drawing was prepared for the exclusive use of the party or parties CERTIFIED TO below for the express purpose stated hereon and/or contained in the contract between Foresight Surveyors, Inc. and the client for this project. Copying, distributing, and/or using this drawing, in whole or in part for any purpose other than originally intended without written consent from Foresight Surveyors, Inc. is strictly prohibited, and renders the surveyor's certification, signature and seal hereon NULL AND VOID. Any questions concerning the content or purpose of this drawing should be directed to Foresight Surveyors, Inc.
5. Pipe linear footages are based on distances between the centerline of structures, and do not reflect additional linear footages incurred at bends adjacent to manholes.
6. Downdrain Outfall Structure locations are to the centerline of structure.
7. Liner Edge not field located. Location provided by S & E Contractors.

LEGEND:
L.F. LINEAR FEET
RT. RIGHT
LT. LEFT
EL. ELEVATION
POLY. POLYETHYLENE

SCALE 1" = 40'



SHEET 1 OF 6

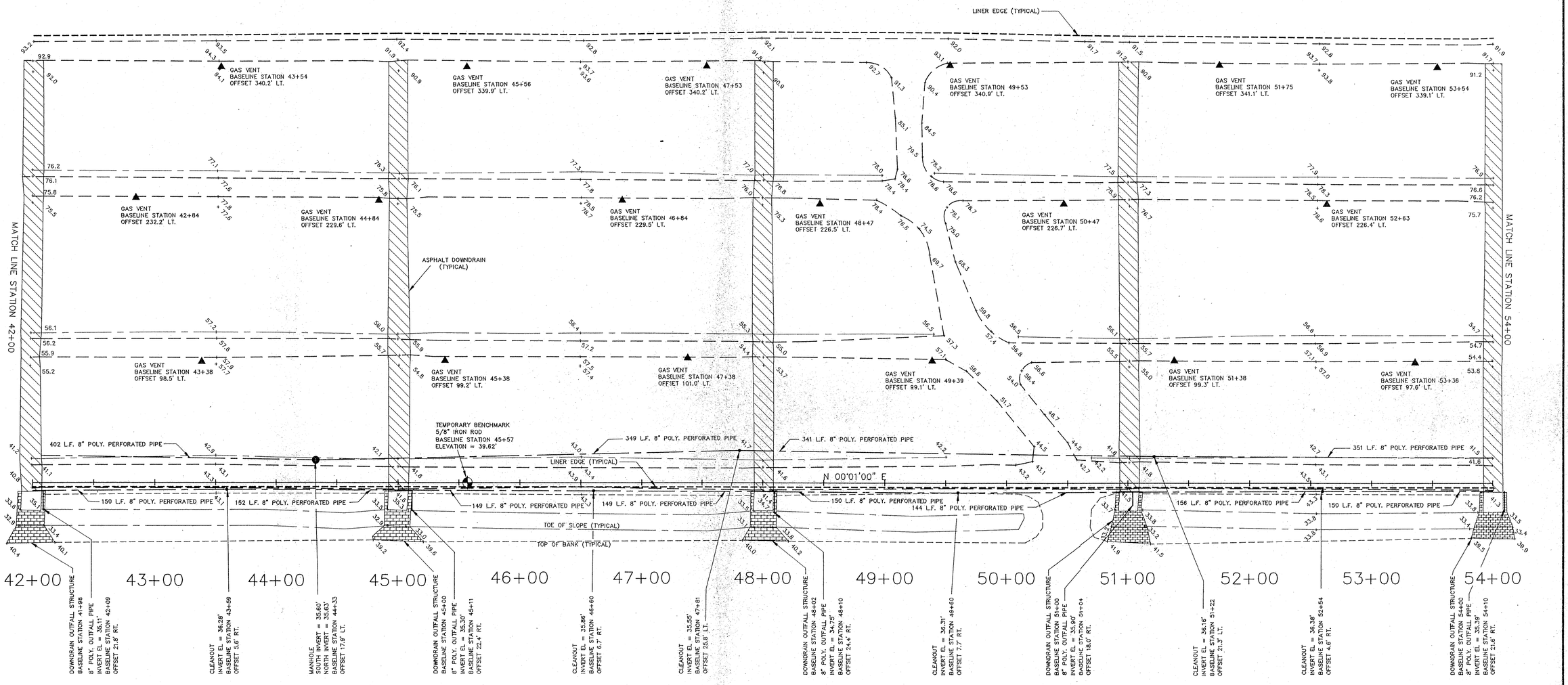
I hereby certify from the field date below that (1) to the best of my knowledge and belief this drawing accurately represents a survey of the described property as made under my supervision, and that (2) this survey meets the minimum technical standards set forth by the Florida Board of Professional Surveyors and Mappers in Chapter 61G17-6, Florida Administrative Code, pursuant to Section 472.027, Florida Statutes. (Subject to any notes and notations listed or labeled hereon.) Unless it bears the signature and the original raised seal of a Florida licensed surveyor and mapper this map is for informational purposes only and is not valid.

D.E.P.
JUL 16 1996
TAMPA

© FORESIGHT SURVEYORS, INC.
2850 SCHERER DRIVE NORTH
SUITE 550 ST. PETERSBURG, FLORIDA 33716
PH. (813) 573-4491 FAX (813) 572-0458

FILE: 9503STR	CERTIFIED AS TO SURVEY	SCALE 1"= 40'
DRAWN B.B.		FIELD DATE 1/26/96
CHECKED T.F.	TERRY D. FERGUSON, P.S.M. Fla. Surveyors Reg'n No. 4535	PROJECT # 9503

STATE OF FLORIDA
TERRY D. FERGUSON
REGISTERED
PROFESSIONAL SURVEYOR AND MAPPER
No. 4535



AN AS-BUILT SURVEY

OF THE LENA ROAD LANDFILL
MANATEE COUNTY, FLORIDA

SCALE 1" = 40'

SHEET 2 OF 6

I hereby certify from the field date below that (1) to the best of my knowledge and belief this drawing accurately represents a survey of the described property as made under my supervision, and that (2) this survey meets the minimum technical standards set forth by the Florida Board of Professional Surveyors and Mappers in Chapter 61G17-6, Florida Administrative Code, pursuant to Section 472.027, Florida Statutes. (Subject to any notes and notations listed or labeled hereon.) Unless it bears the signature and the original raised seal of a Florida licensed surveyor and mapper this map is for informational purposes only and is not valid.

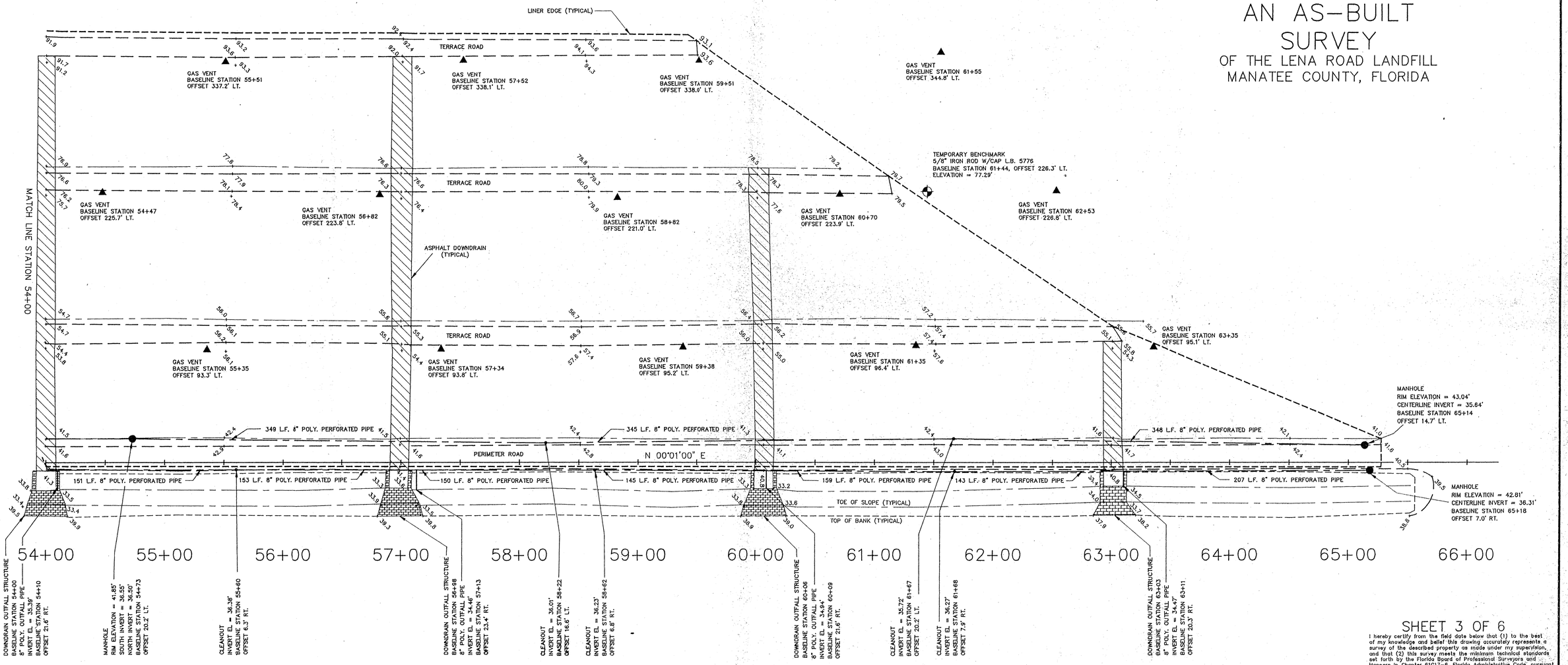
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2850 SCHERER DRIVE NORTH
SUITE 550 ST. PETERSBURG, FLORIDA 33716
PH. (813) 573-4491 FAX (813) 572-0458

P. T. HALL CERTIFICATE NUMBER 5355 STATE OF FLORIDA REGISTERED SURVEYOR

SCALE 1" = 40'

AN AS-BUILT SURVEY

OF THE LENA ROAD LANDFILL
MANATEE COUNTY, FLORIDA



SHEET 3 OF 6

I hereby certify from the field date below that (1) to the best of my knowledge and belief this drawing accurately represents a survey of the described property as made under my supervision, and that (2) this survey meets the minimum technical standards set forth by the Florida Board of Professional Surveyors and Mappers in Chapter 61G17-6, Florida Administrative Code, pursuant to Section 472.027, Florida Statutes. (Subject to any notes and notations listed or labeled hereon.) Unless it bears the signature and the original raised seal of a Florida licensed surveyor and mapper this map is for informational purposes only and is not valid.

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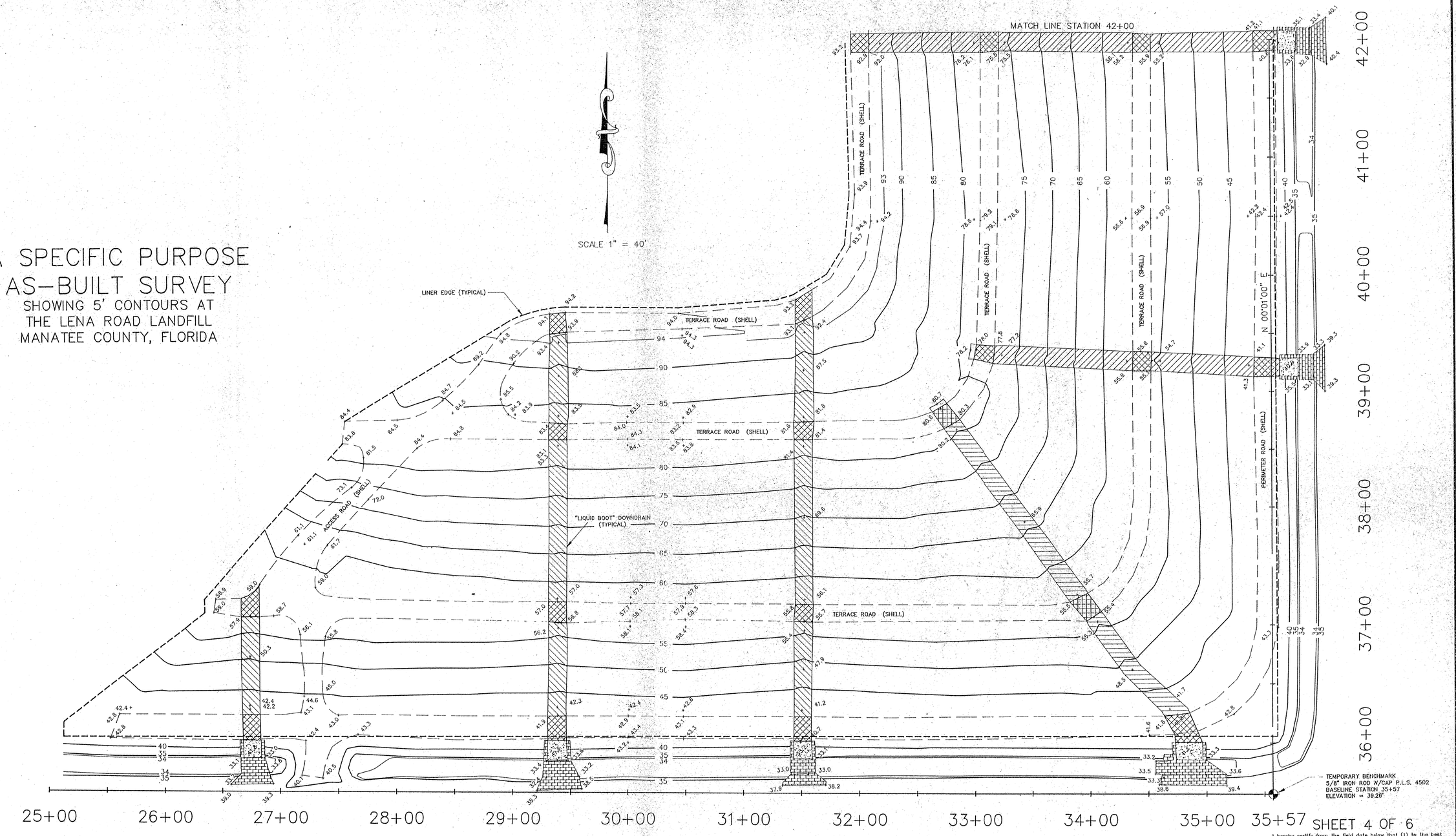
FILE: 9503STR	CERTIFIED AS TO SURVEY	SCALE 1"= 40'
DRAWN B.B.		FIELD DATE 1/26/96
CHECKED T.F.	TERRY D. FERGUSON, P.S.M. Fla. Surveyors Reg'n No. 4535	PROJECT # 9503

T. F. HALL CERTIFICATE NO. 4535 REGISTERED ENGINEER

SEC. 1 TWP. 35 S. RNG. 18 E.

A SPECIFIC PURPOSE AS-BUILT SURVEY

SHOWING 5' CONTOURS AT
THE LENA ROAD LANDFILL
MANATEE COUNTY, FLORIDA



SHEET 4 OF 6

1. This drawing is not intended to represent a boundary survey.
2. Benchmark Used: B.M. #1, a 60d nail in the north side of Power Pole #5-2177-5271, at the Southeast Corner of Phase I. Elevation = 40.58', as supplied by the Manatee County Survey Department.
3. Basis of bearing: N 0°01'00" E; as defined by baseline coordinates found on sheets 4 of 12 through 6 of 12 of the Construction Plans. Project # 480-4632-534, as supplied by the Manatee County Public Works Department. Manatee County, Florida.
4. Contours shown hereon were computer interpolated using SOFTDESK Release 11 software from information provided by a limited topographic survey.
5. These as-built contour drawings are a supplement to the Lena Road as-built drawings submitted on 3/5/96.
6. This survey drawing was prepared for the exclusive use of the party or parties CERTIFIED TO below for the express purpose stated hereon and/or contained in the contract between Foresight Surveyors, Inc. and the client for this project. Copying, distributing, and/or using this drawing, in whole or in part for any purpose other than originally intended without written consent from Foresight Surveyors, Inc. is strictly prohibited, and renders the surveyor's certification, signature and seal hereon NULL AND VOID. Any questions concerning the content or purpose of this drawing should be directed to Foresight Surveyors, Inc.

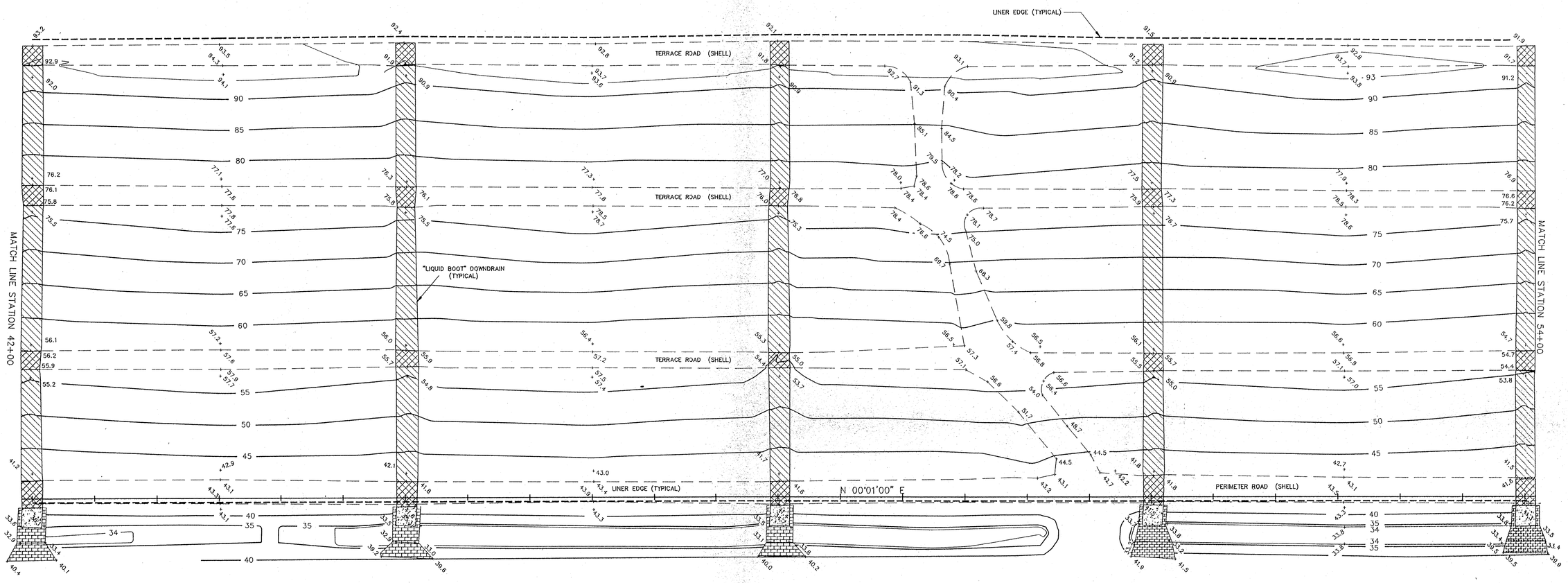
I hereby certify from the field date below that (1) to the best of my knowledge and belief this drawing accurately represents a survey of the described property as made under my supervision, and that (2) this survey meets the minimum technical standards set forth by the Florida Board of Professional Surveyors and Mappers in Chapter 61G17-6, Florida Administrative Code, pursuant to Section 472.027, Florida Statutes. (Subject to any notes and notations listed or labeled hereon.) Not valid without the signature and the original raised seal of a Florida licensed surveyor and mapper.

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2850 SCHERER DRIVE NORTH
SUITE 550 ST. PETERSBURG, FLORIDA 33716
PH. (813) 573-4491 FAX (813) 572-0456

FILE: 9503STRC	CERTIFIED AS TO SURVEY	SCALE 1" = 40'
DRAWN B.B.		SURVEY DATE 1/26/96
CHECKED T.F.	TERRY O. FERGUSON, P.S.M. Fla. Surveyors Regis. No. 4535	PROJECT # 9503

CERTIFIED TO:
S & E CONTRACTORS
MANATEE COUNTY GOVERNMENT

SEC. 1 TWP. 35 S. RNG. 18 E.



A SPECIFIC PURPOSE AS-BUILT SURVEY

SHOWING 5' CONTOURS AT
THE LENA ROAD LANDFILL
MANATEE COUNTY, FLORIDA

SCALE 1" = 40'

SHEET 5 OF 6

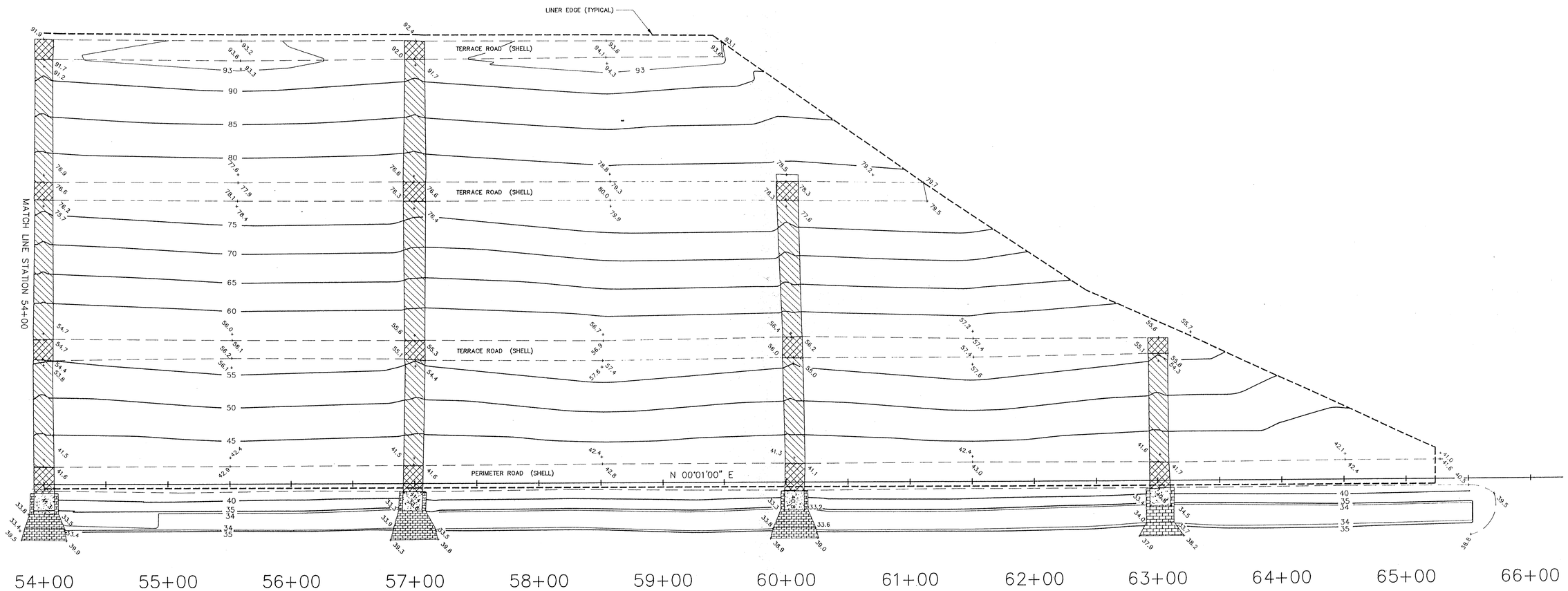
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FILE: 9503STRC	CERTIFIED AS TO SURVEY	SCALE 1"= 40'
DRAWN B.B.		SURVEY DATE 1/26/96
CHECKED T.F.	TERRY D. FERGUSON, P.S.M. Fla. Surveyors Reg'n No. 4535	PROJECT # 9503

CERTIFIED TO:
S & E CONTRACTORS
MANATEE COUNTY GOVERNMENT

SCALE 1" = 40'



A SPECIFIC PURPOSE AS-BUILT SURVEY

SHOWING 5' CONTOURS AT
THE LENA ROAD LANDFILL
MANATEE COUNTY, FLORIDA

SHEET 6 OF 6

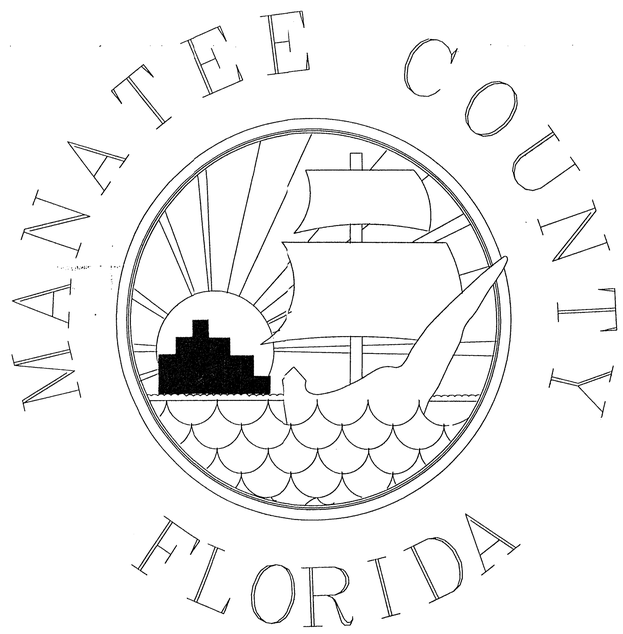
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FILE: 9503STRC	CERTIFIED AS TO SURVEY	SCALE 1"= 40'
DRAWN B.B.		SURVEY DATE 1/26/96
CHECKED T.F.	TERRY D. FERGUSON, P.S.M. Fla. Surveyors Reg'n No. 4535	PROJECT # 9503

CERTIFIED TO:
S & E CONTRACTORS
MANATEE COUNTY GOVERNMENT

LENA ROAD LANDFILL
SEQUENTIAL FILLING PLAN



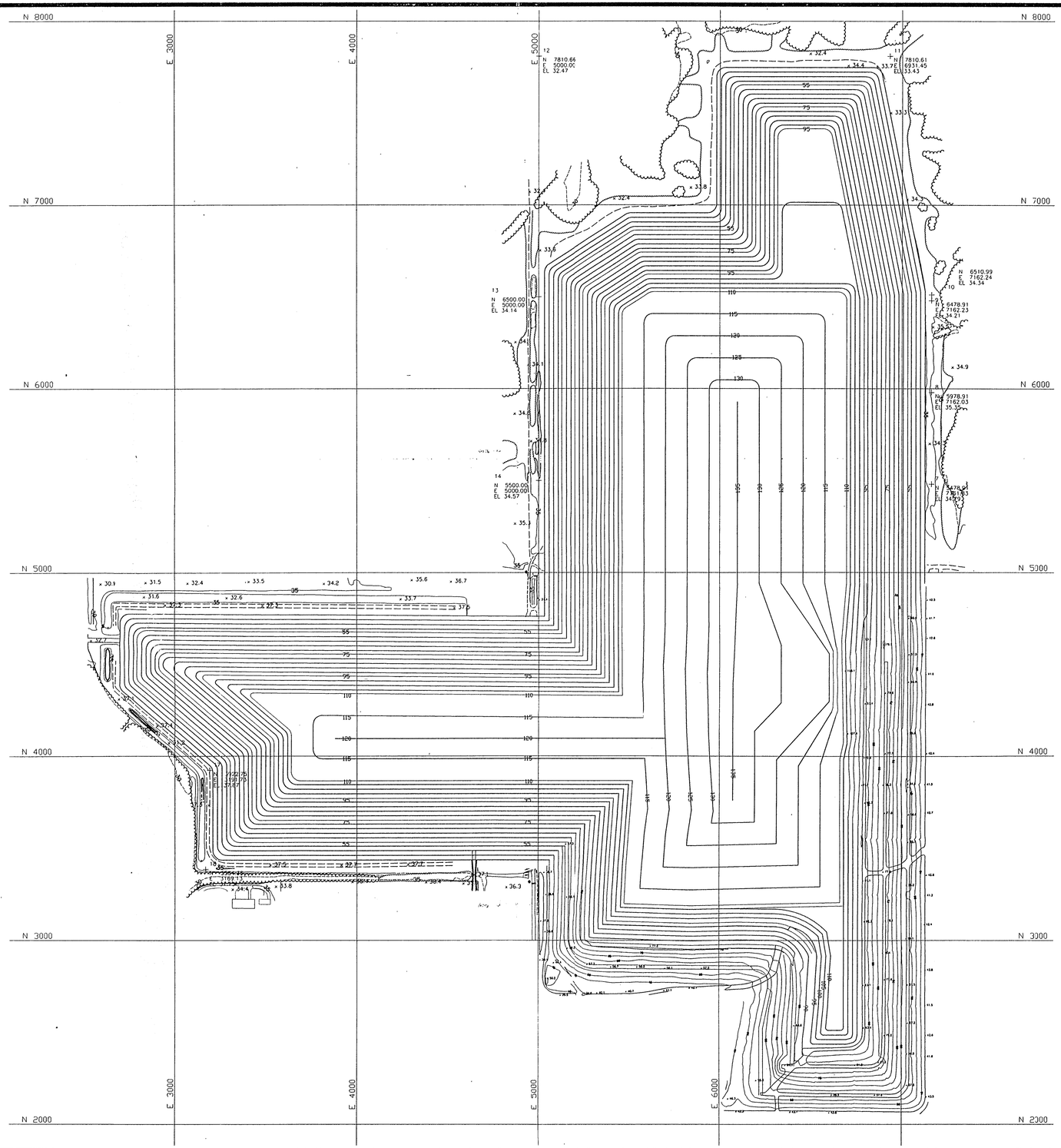
RECEIVED
MAR 28 1997
Department of Environmental Protection
BY SOUTHWEST DISTRICT

MANATEE COUNTY, FLORIDA
MARCH, 1997

CERTIFICATE OF AUTHORIZATION
STATE OF FLORIDA
REGISTERED ENGINEER

HDR
HDR Engineering, Inc.
Tampa, Florida

Y:\MANATEE\DWG\COVER.DWG



D.E.P.
MAR 2 8 1997
SOUTHWEST DISTRICT
TAMPA

HDR
HDR Engineering, Inc.
Tampa, Florida

Issue No.	Description	Date	Drwn.	Chkd.	Resp. Engr.	Proj. Mgr.
B	DEP SUBMITTAL (RAI #1)	3/97	TJT	DMP		
A	COUNTY REVIEW	12/96	TJT	DMP		

Project Manager	D. PELHAM
Architect	-
I&C/Process	-
Civil	T.TIEDEMANN
Mechanical	-
Electrical	-
Structural	-
Environmental	-
Drawn By	-

LENA ROAD LANDFILL SEQUENTIAL FILLING PLAN

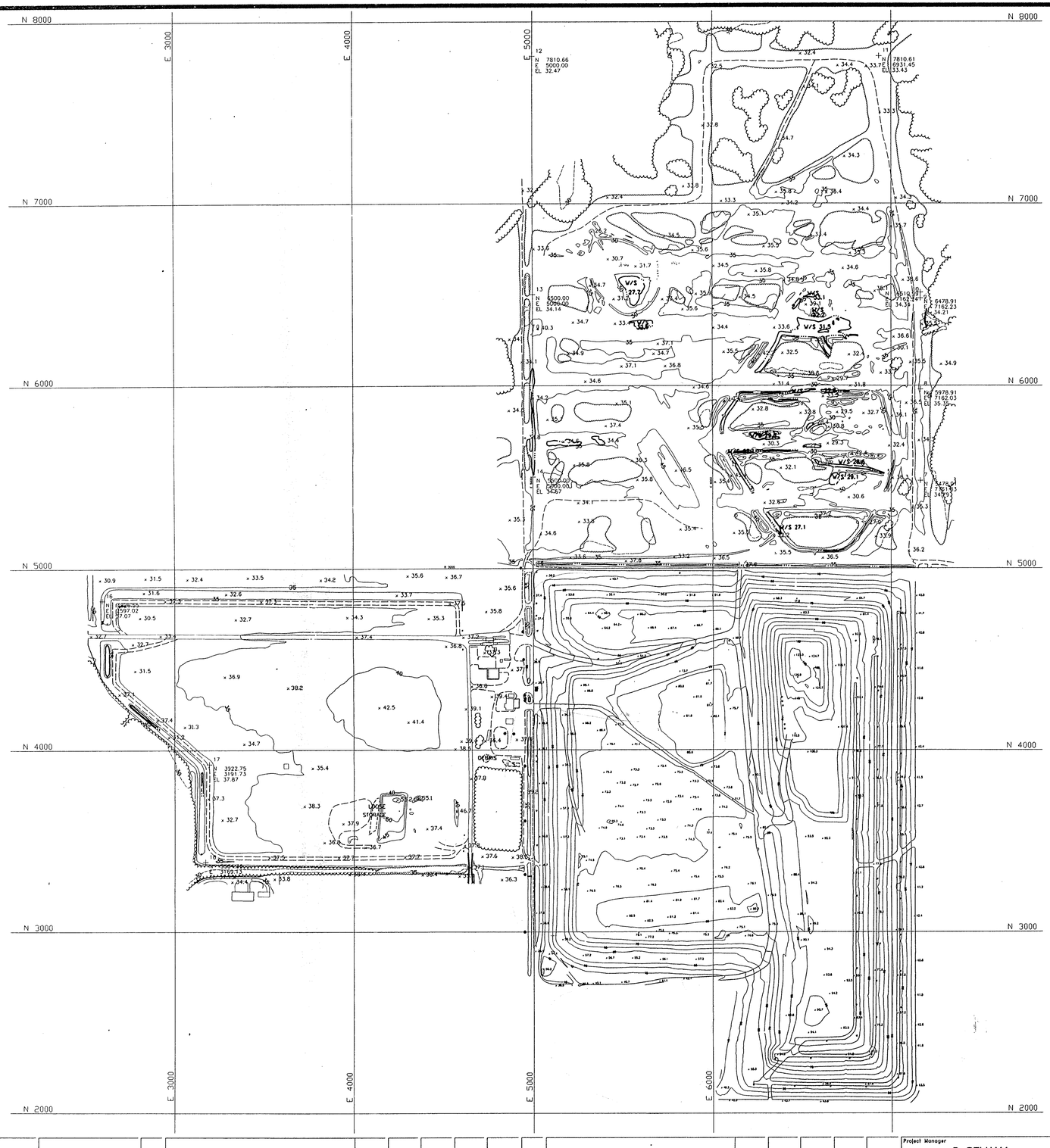
MANATEE COUNTY FLORIDA

PROPOSED FINAL CONTOURS

Date	Project No.	Drawing No.	Issue
3/28/97	07187-008-096	FC - 1	B

Scale 1" = 300'

Y:\MANATEE\FINAL\C.D



LIST OF DRAWINGS

FC-1	PROPOSED FINAL CONTOURS
G-1	LENA ROAD LANDFILL - PLAN VIEW
C-1	OCTOBER 1996 (t=0)
C-2	APRIL 1997 (t=6)
C-3	OCTOBER 1997 (t=12)
C-4	APRIL 1998 (t=18)
C-5	OCTOBER 1998 (t=24)
C-6	APRIL 1999 (t=30)
C-7	OCTOBER 1999 (t=36)
C-8	APRIL 2000 (t=42)
C-9	OCTOBER 2000 (t=48)
C-10	APRIL 2001 (t=54)
C-11	OCTOBER 2001 (t=60)
C-12	APRIL 2002 (t=66)
C-13	OCTOBER 2002 (t=72)
C-14	APRIL 2003 (t=78)
C-15	OCTOBER 2003 (t=84)

D.E.P.
MAR 2 8 1997
SOUTHWEST DISTRICT
TAMPA

Issue No.	Description	Date	Drwn.	Chkd.	Resp. Engr.	Proj. Mgr.
C	DEP SUBMITTAL (RAI #1)	3/97	TJT	DMP		
B	DEP SUBMITTAL	1/97	TJT	DMP		
A	90 PERCENT REVIEW	12/96	TJT	DMP		

HDR Engineering, Inc.
Tampa, Florida

Project Manager: D. PELHAM
Architect: -
I&C/Process: -
Civil: T.TIEDEMANN
Mechanical: -
Electrical: -
Structural: -
Environmental: -
Drawn By: -

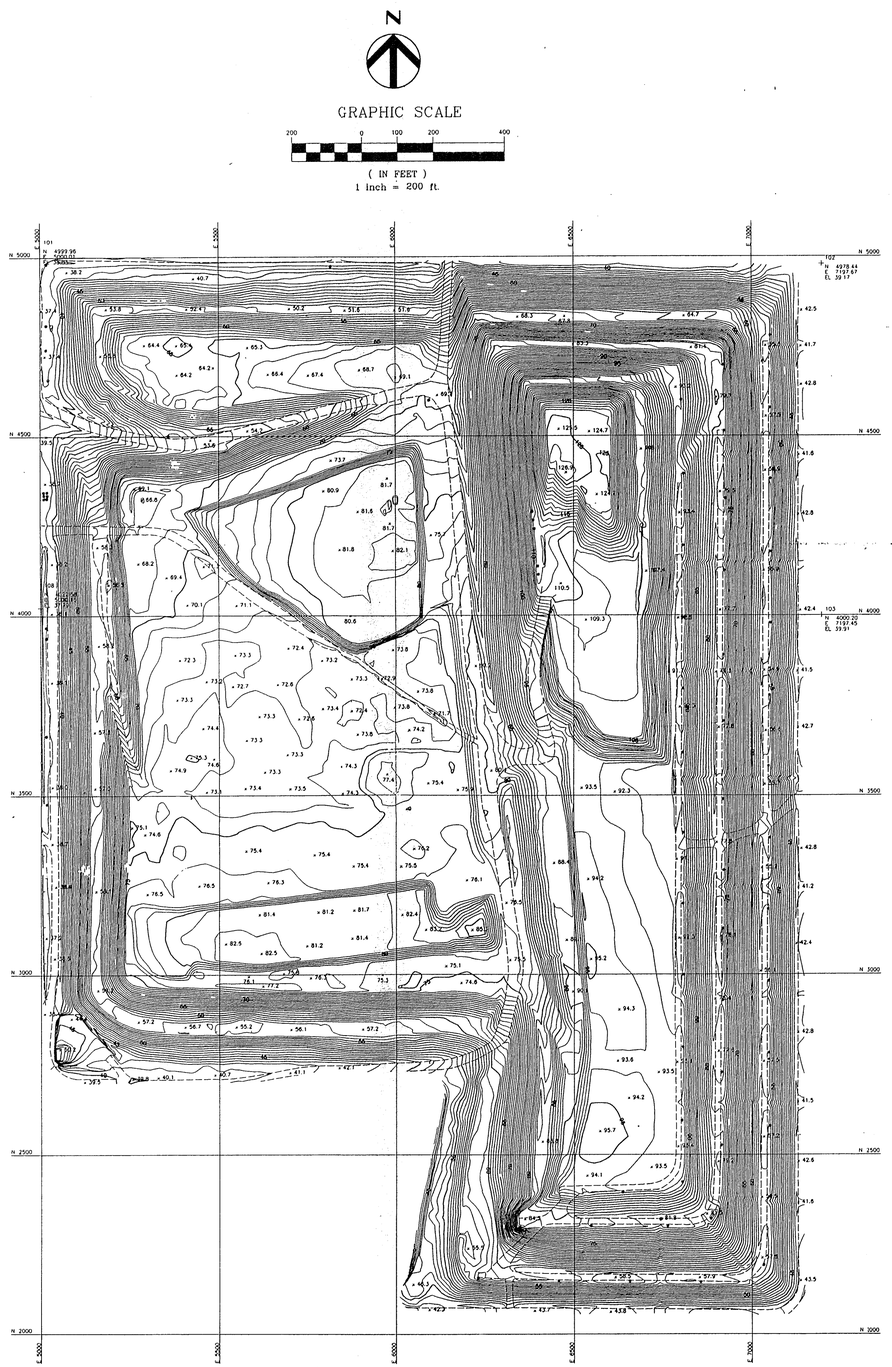
LENA ROAD LANDFILL
SEQUENTIAL FILLING PLAN

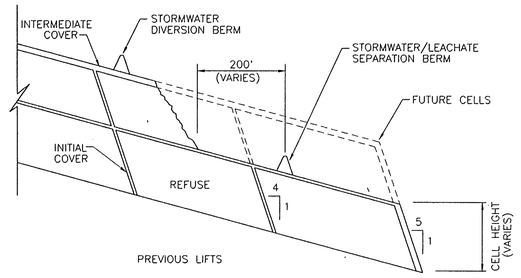
MANATEE COUNTY FLORIDA

Lena Road Landfill
Plan View

Date: 3/28/97
Scale: 1" = 300'
Project No.: 07187-008-096
Drawing No.: G - 1
Issue: C

Y:\MANATEE\SITE\TOPLDWG





TYPICAL LIFT CONSTRUCTION

NOTES:

1. EXTERIOR SIDESLOPES SHALL BE 5 HORIZONTAL TO ONE VERTICAL.
2. INTERIOR SIDESLOPES SHALL BE FOUR (4) HORIZONTAL TO ONE (1) VERTICAL.
3. THE STORMWATER DIVERSION BERM AND LEACHATE SEPARATION BERM SHALL COMPLETELY ENCLOSE THE WORKING FACE. ACCESS TO THE WORKING FACE IS OBTAINED BY GENTLY SLOPING THE LEACHATE SEPARATION BERM TO ALLOW TRUCKS TO DRIVE OVER THE BERM.
4. THE SEQUENCE OF LIFT CONSTRUCTION DURING EACH SIX MONTH INTERVAL IS DESIGNATED BY THE USE OF LETTERS AND SYMBOLS. THESE SYMBOLS ARE EXPLAINED BELOW.

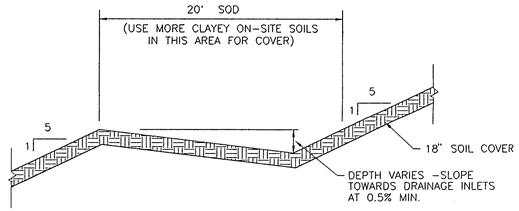
   (A) FIRST LIFT CONSTRUCTED (A) RIGHT TO LEFT CORRESPONDING WITH THE CROSS-SECTION

   (B) SECOND LIFT CONSTRUCTED (B) LEFT TO RIGHT CORRESPONDING WITH THE CROSS-SECTION

   (C) THIRD LIFT CONSTRUCTED (C) OUT OF THE PAGE CORRESPONDING WITH THE CROSS-SECTON

   (D) FORTH LIFT CONSTRUCTED (D) INTO THE PAGE CORRESPONDING WITH THE CROSS-SECTION

5. DAILY (INITIAL) COVER HAS BEEN OMITTED FROM THE CROSS-SECTIONS FOR CLARITY.

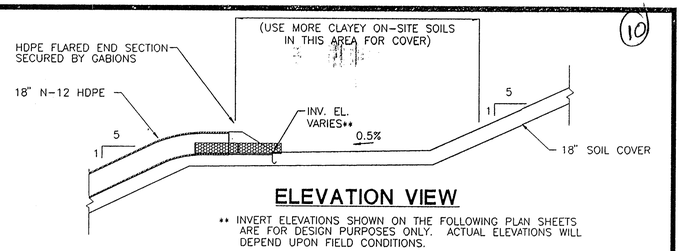


TYPICAL TERRACE CONSTRUCTION

NOTE:

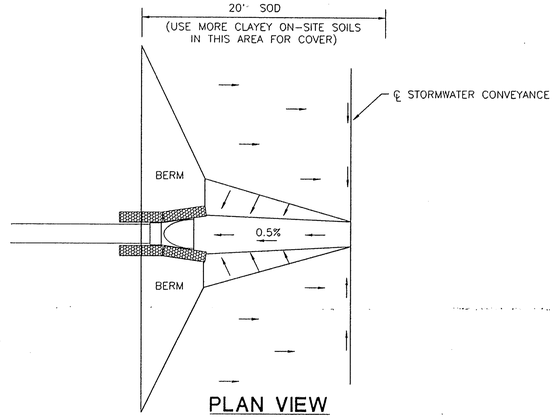
1. SOD ALL SLOPES STEEPER THAN 5:1 AND SEED AND MULCH ALL SLOPES LESS THAN 5:1.
2. TERRACE WIDTH SHALL BE 20 FEET FOR ALL FINAL 5:1 SIDESLOPES, AND 15 FEET FOR INTERMEDIATE 4:1 SIDESLOPES.
3. SOD TERRACE STORMWATER CONVEYANCES.

(10)



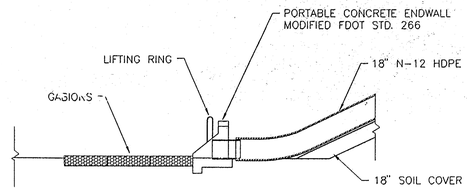
ELEVATION VIEW

** INVERT ELEVATIONS SHOWN ON THE FOLLOWING PLAN SHEETS ARE FOR DESIGN PURPOSES ONLY. ACTUAL ELEVATIONS WILL DEPEND UPON FIELD CONDITIONS.



PLAN VIEW

TYPICAL LETDOWN STRUCTURE INLET



TYPICAL LETDOWN STRUCTURE OUTLET

TONNAGE AND VOLUME DATA

DATE	TOTAL LANDFILLED (TPY)	TOTAL VOLUME (CYD)	CUMMULATIVE VOLUME (CYD)
APR. 1997	176,300	287,837	287,837
OCT. 1997	180,707	295,033	582,869
APR. 1998	180,707	295,033	877,902
OCT. 1998	185,225	302,408	1,180,311
APR. 1999	185,225	302,408	1,482,719
OCT. 1999	189,856	309,969	1,792,688
APR. 2000	189,856	309,969	2,102,656
OCT. 2000	194,602	317,718	2,420,374
APR. 2001	194,602	317,718	2,738,092
OCT. 2001	199,467	325,661	3,063,753
APR. 2002	199,467	325,661	3,389,414
OCT. 2002	204,454	333,802	3,723,216
APR. 2003	204,454	333,802	4,057,019
OCT. 2003	209,565	342,147	4,399,166

D.E.P.
MAR 2 8 1997
SOUTHWEST DISTRICT TAMPA

HDR Engineering, Inc.
Tampa, Florida

Issue No.	Description	Date	Drwn.	Chkd.	Resp. Engr.	Proj. Mgr.
D	DEP SUBMITTAL (RAI #1)	3/97	TJT	DMP		
C	DEP SUBMITTAL	1/97	TJT	DMP		
B	90 PERCENT REVIEW	12/96	TJT	DMP		
A	COUNTY REVIEW	9/96	TJT	DMP		

Project Manager: D. PELHAM
Architect: -
I&C/Process: -
Civil: T.TIEDEMANN
Mechanical: -
Electrical: -
Structural: -
Environmental: -
Drawn By: -

LENA ROAD LANDFILL SEQUENTIAL FILLING PLAN

MANATEE COUNTY FLORIDA

Plan View - Cross Sections October 1996 (t = 0)

Date: 3/28/97
Scale: AS NOTED
Project No.: 07187-008-096
Drawing No.: C - 1
Issue: D

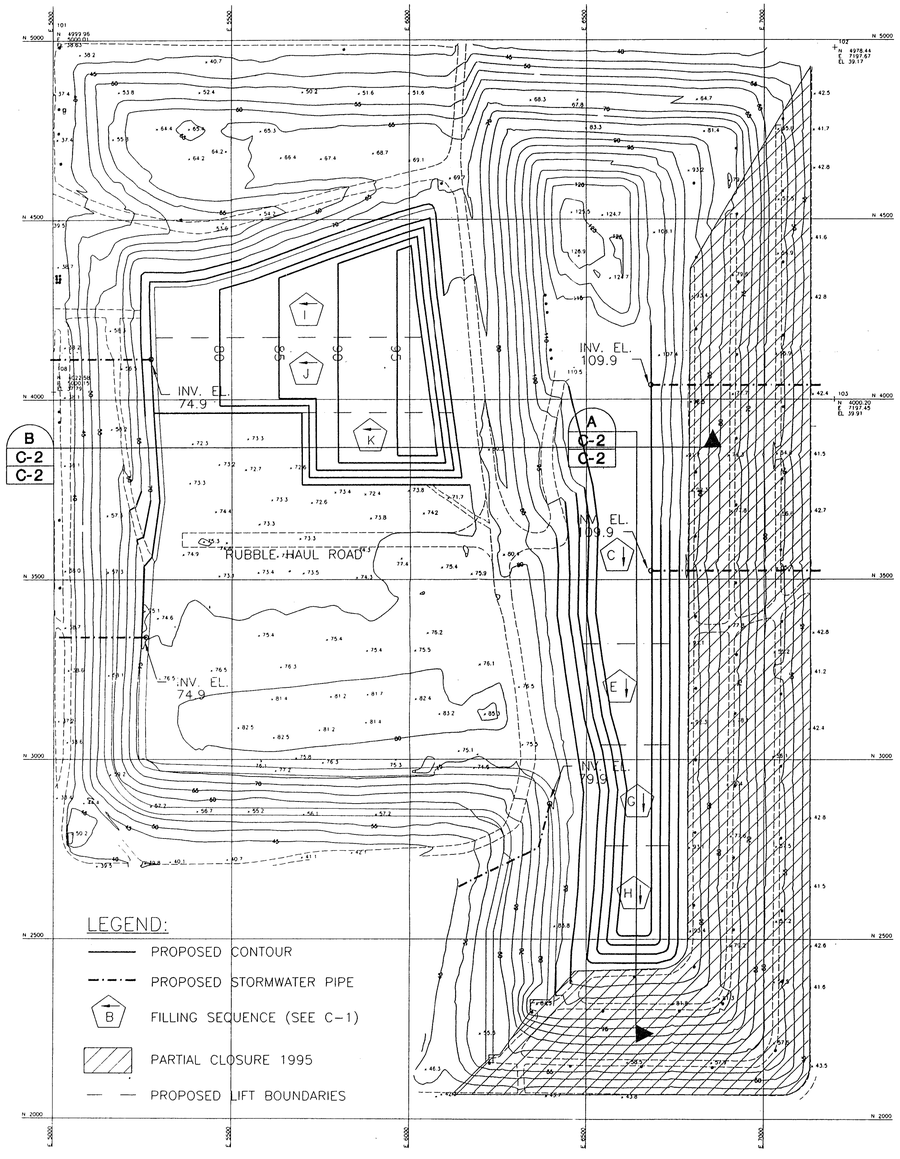
Y:\MANATEE\MCSF5000.DWG

N

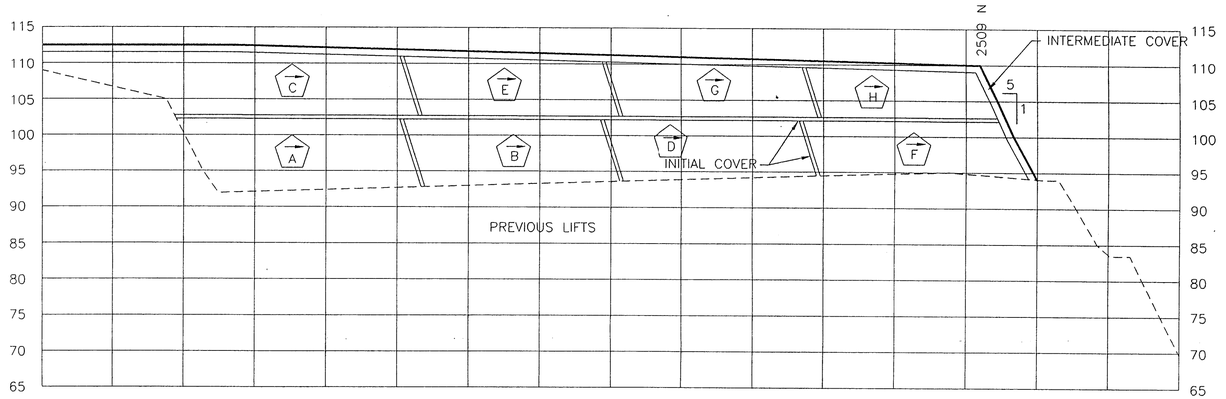
GRAPHIC SCALE

200 0 100 200 400

(IN FEET)
1 inch = 200 ft.



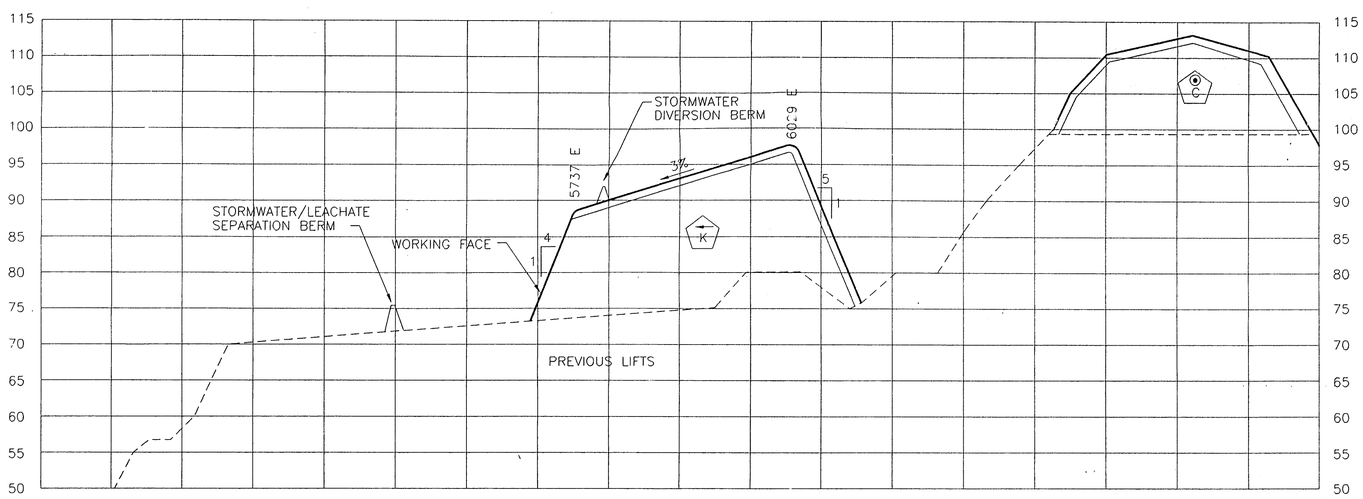
NOTE:
PPOPOSED GRADES ARE APPROXIMATE ONLY. ACTUAL GRADES WILL DEPEND ON ACTUAL WASTE VOLUMES. GRADES WILL ALSO BE ADJUSTED DURING OPERATIONS TO PROVIDE FOR DITCHES AND SURFACE SLOPES CONSISTENT WITH FLOWLINES SHOWN ON THIS DRAWING AND TYPICAL SECTIONS.



CROSS SECTION

HORZ. 1" = 100'
VERT. 1" = 10'

A C-2 C-2



CROSS SECTION

HORZ. 1" = 100'
VERT. 1" = 10'

B C-2 C-2

D.E.P.
MAR 2 8 1997
SOUTHWEST DISTRICT
TAMPA

Issue No.	Description	Date	Drwn.	Chkd.	Resp. Engr.	Proj. Mgr.
D	DEP SUBMITTAL (RAI #1)	3/97	TJT	DMP		
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A	COUNTY REVIEW	9/96	TJT	DMP		

HDR Engineering, Inc.
Tampa, Florida

Project Manager: D. PELHAM
Architect: -
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Civil: T.TIEDEMANN
Mechanical: -
Electrical: -
Structural: -
Environmental: -
Drawn By: -

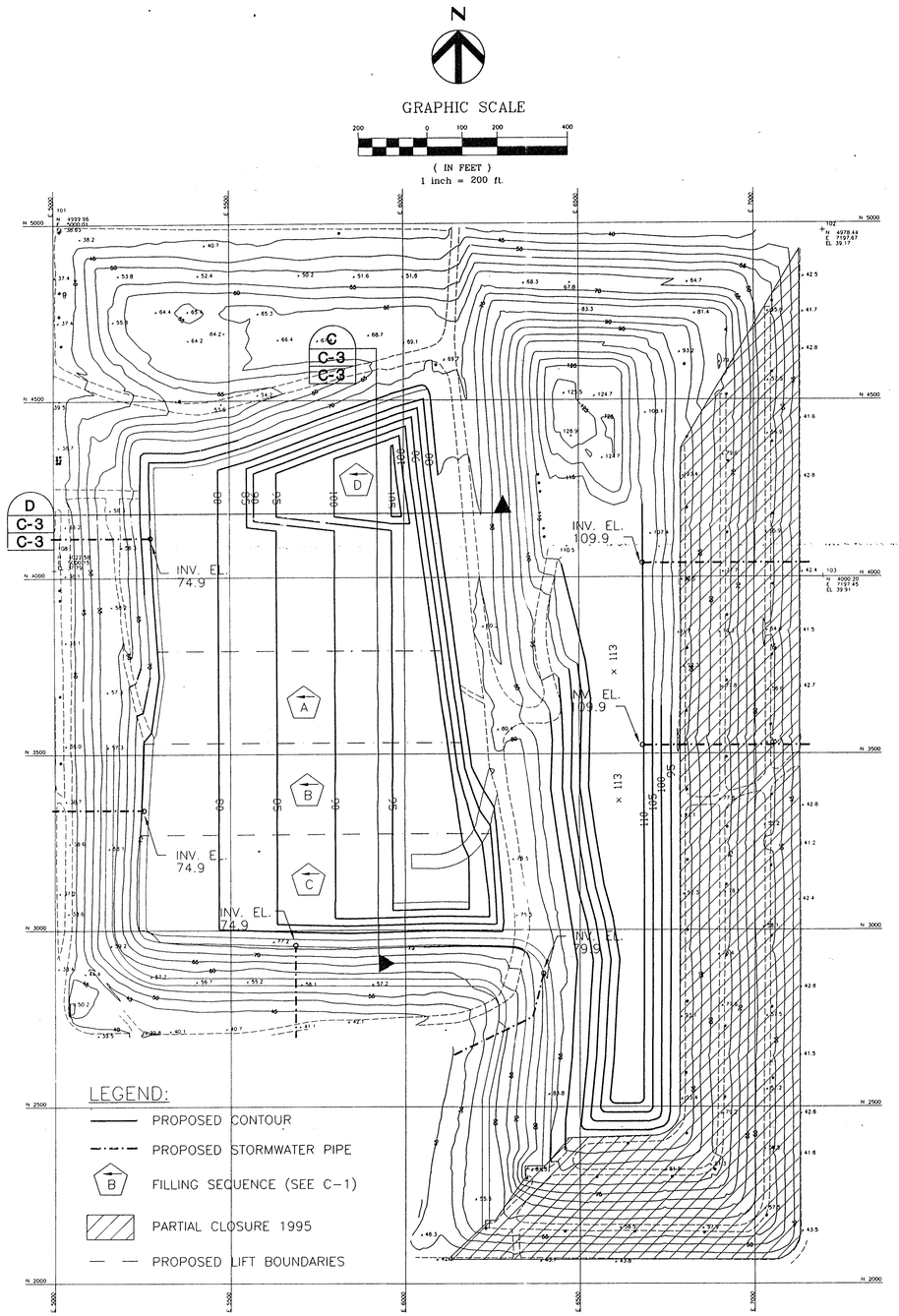
LENA ROAD LANDFILL SEQUENTIAL FILLING PLAN

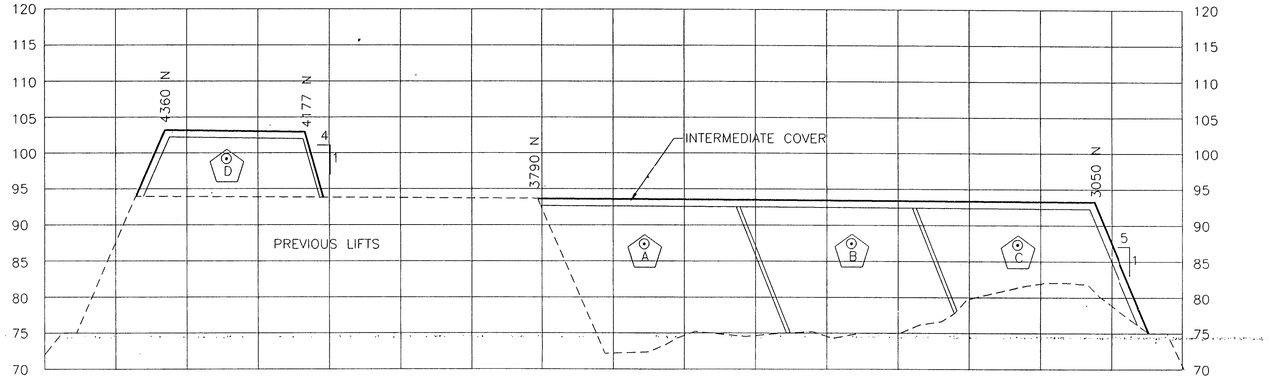
MANATEE COUNTY FLORIDA

Plan View - Cross Sections April 1997 (t = 6)

Date 3/28/97 | Project No. 07187-008-096 | Drawing No. C - 2 | Issue D
Scale AS NOTED

Y:\MANATEE\MCSF500A.DWG

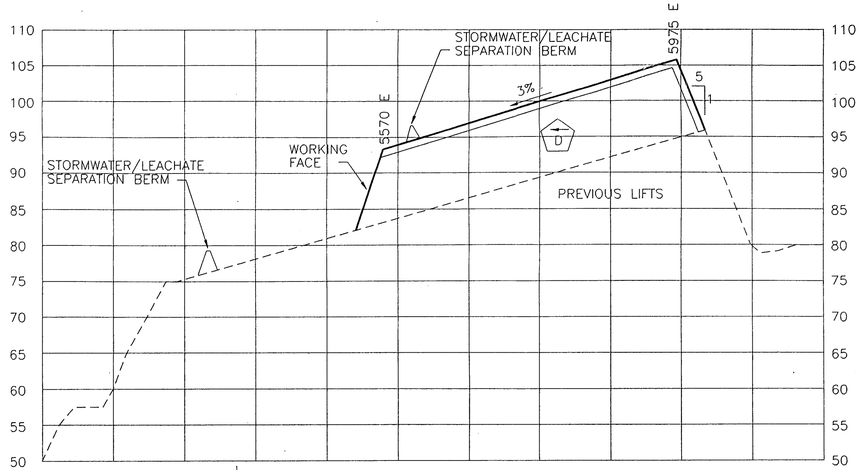




CROSS SECTION

HORZ. 1" = 100'
VERT. 1" = 10'

C
C-3
C-3



CROSS SECTION

HORZ. 1" = 100'
VERT. 1" = 10'

D
C-3
C-3

NOTE:
PPOPOSED GRADES ARE APPROXIMATE ONLY. ACTUAL GRADES WILL DEPEND ON ACTUAL WASTE VOLUMES. GRADES WILL ALSO BE ADJUSTED DURING OPERATIONS TO PROVIDE FOR DITCHES AND SURFACE SLOPES CONSISTENT WITH FLOWLINES SHOWN ON THIS DRAWING AND TYPICAL SECTIONS.

D.E.P.
MAR 2 8 1997
TAMPA

Issue No.	Description	Date	Drwn.	Chkd.	Resp. Engr.	Proj. Mgr.
D	DEP SUBMITTAL (RAI #1)	3/97	TJT	DMP		
C	DEP SUBMITTAL	1/97	TJT	DMP		
B	90 PERCENT REVIEW	12/96	TJT	DMP		
A	COUNTY REVIEW	9/96	TJT	DMP		

HDR Engineering, Inc.
Tampa, Florida

Project Manager	D. PELHAM
Architect	-
I&C/Process	-
Civil	T.TIEDEMANN
Mechanical	-
Electrical	-
Structural	-
Environmental	-
Drawn By	-

LENA ROAD LANDFILL SEQUENTIAL FILLING PLAN

MANATEE COUNTY FLORIDA

Plan View - Cross Sections
October 1997 (t = 12)

Date	Project No.	Drawing No.	Issue
3/28/97	07187-008-096	C - 3	D

Scale: AS NOTED

Y:\MANATEE\MCSF9012.DWG

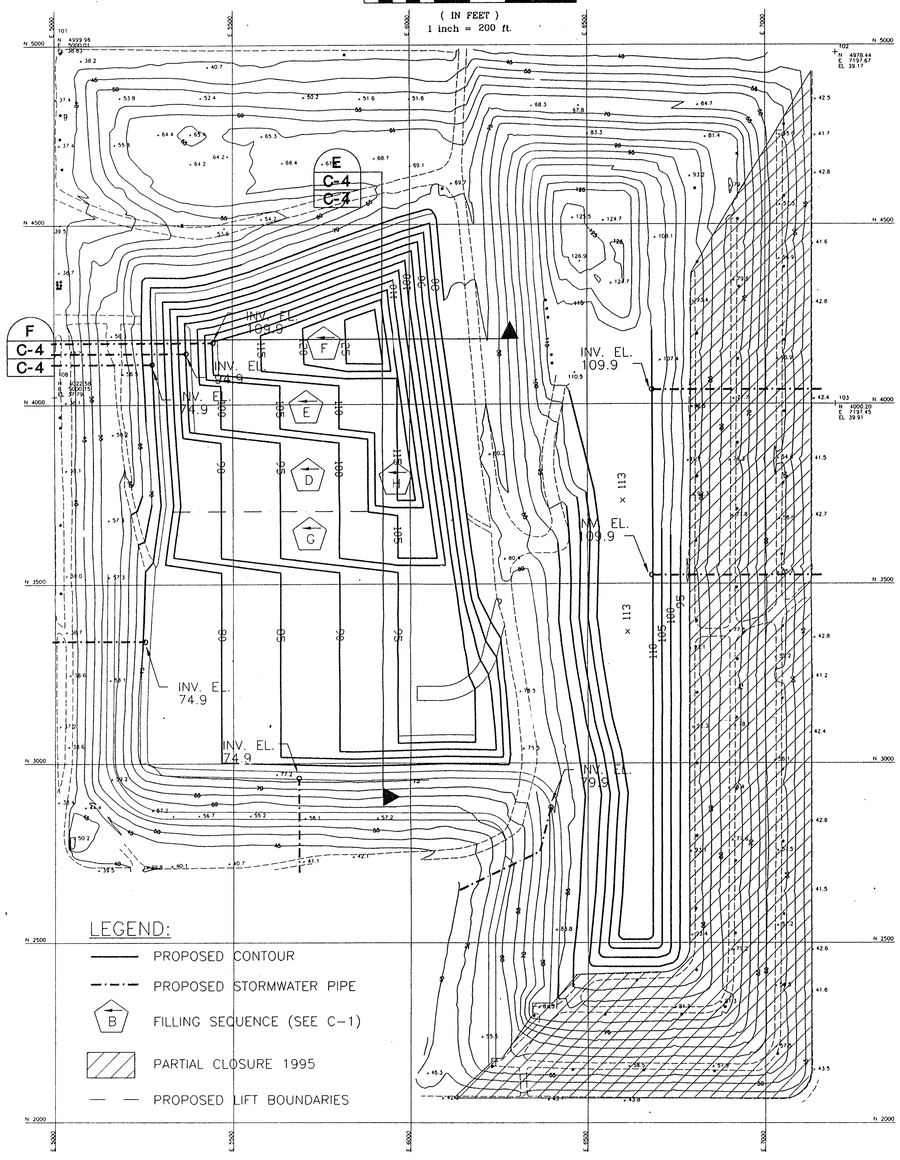
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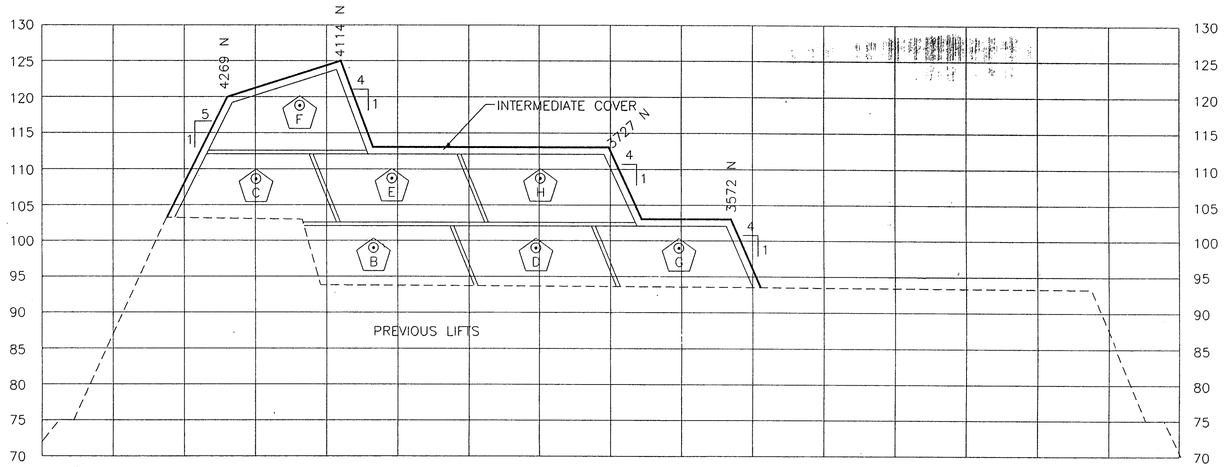
GRAPHIC SCALE

200 0 100 200 400

(IN FEET)
1 inch = 200 ft.



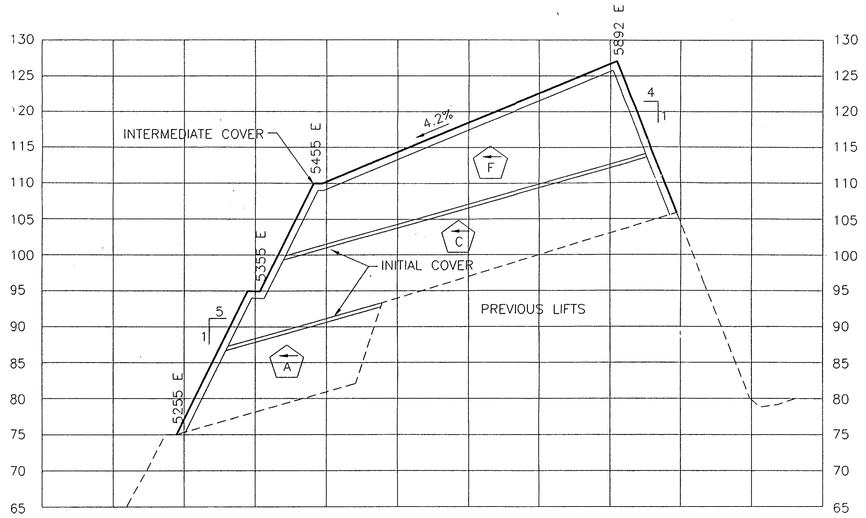
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CROSS SECTION

HORZ. 1" = 100'
VERT. 1" = 10'

E
C-4
C-4



CROSS SECTION

HORZ. 1" = 100'
VERT. 1" = 10'

F
C-4
C-4

D.E.P.
MAR 2 8 1997
SOUTHWEST DISTRICT
TAMPA

Issue No.	Description	Date	Drwn.	Chkd.	Resp. Engr.	Proj. Mgr.
D	DEP SUBMITTAL (RAI #1)	3/97	TJT	DMP		
C	DEP SUBMITTAL	1/97	TJT	DMP		
B	90 PERCENT REVIEW	12/96	TJT	DMP		
A	COUNTY REVIEW	9/96	TJT	DMP		

HDR Engineering, Inc.
Tampa, Florida

Project Manager: D. PELHAM
Architect: - | I&C/Process: -
Civil: T.TIEDEMANN | Mechanical: -
Electrical: - | Structural: -
Environmental: - | Drawn By: -

LENA ROAD LANDFILL SEQUENTIAL FILLING PLAN

MANATEE COUNTY FLORIDA

Plan View - Cross Sections April 1998 (t = 18)

Date: 3/28/97
Scale: AS NOTED
Project No.: 07187-008-096
Drawing No.: C - 4
Issue: D

Y:\MANATEE\MCSF5016.DWG

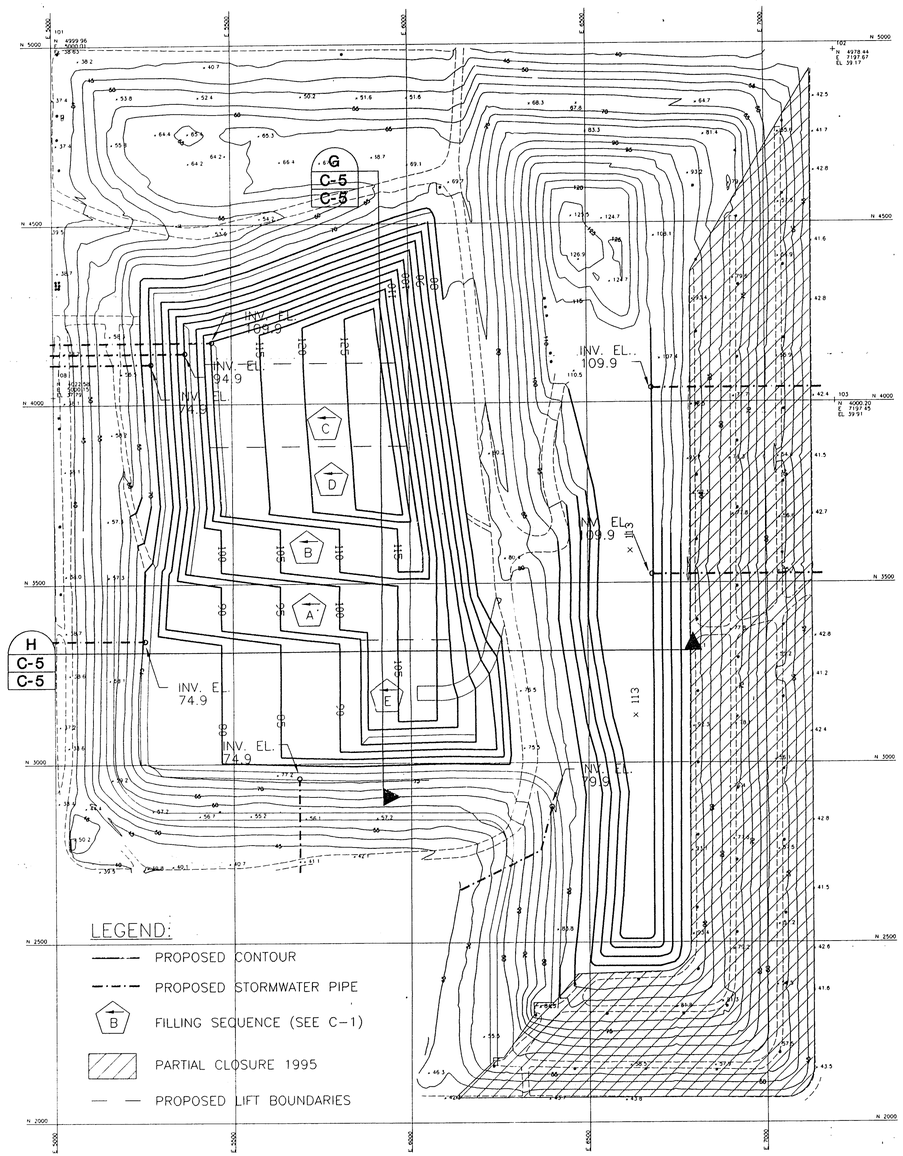
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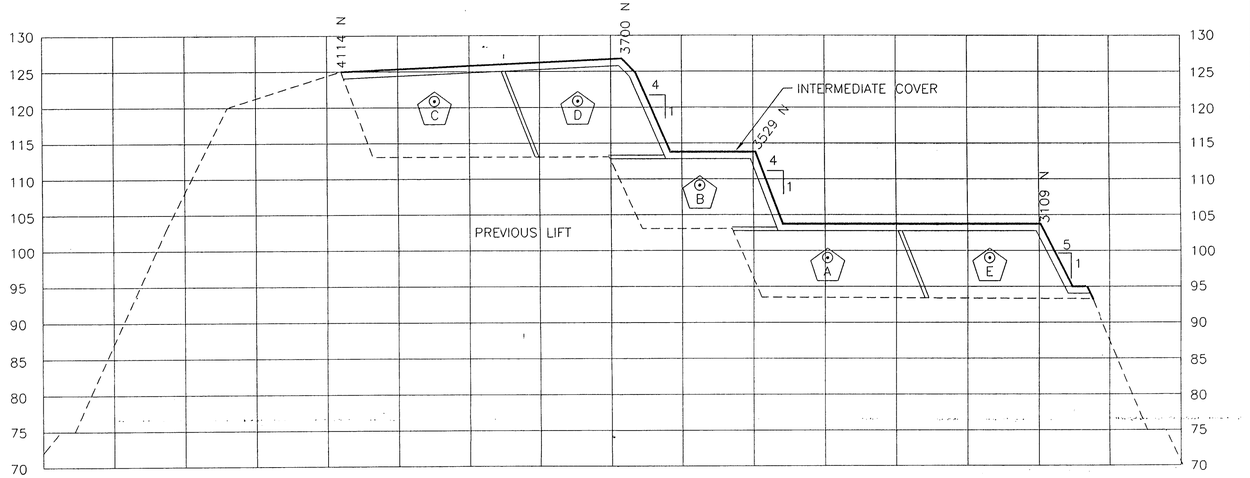
GRAPHIC SCALE

200 0 100 200 400

(IN FEET)
1 inch = 200 ft.



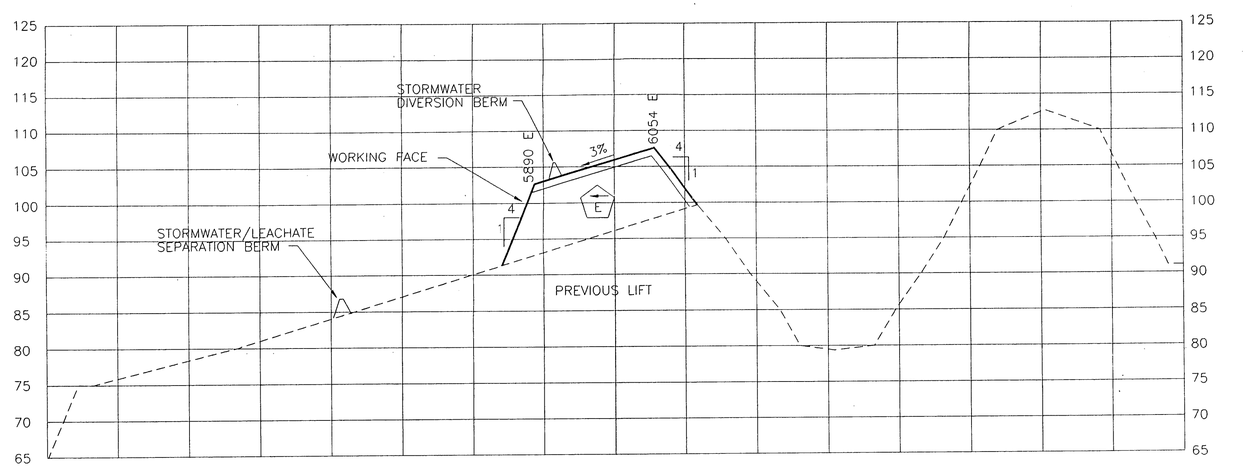
NOTE:
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CROSS SECTION

HORZ. 1" = 100'
VERT. 1" = 10'

G
C-5
C-5



CROSS SECTION

HORZ. 1" = 100'
VERT. 1" = 10'

H
C-5
C-5

D.E.P.
MAR 2 8 1997
SOUTHWEST DISTRICT
TAMPA

Issue No.	Description	Date	Drwn.	Chkd.	Resp. Engr.	Proj. Mgr.
D	DEP SUBMITTAL (RAI #1)	3/97	TJT	DMP		
C	DEP SUBMITTAL	1/97	TJT	DMP		
B	90 PERCENT REVIEW	12/96	TJT	DMP		
A	COUNTY REVIEW	9/96	TJT	DMP		

HDR Engineering, Inc.
Tampa, Florida

Project Manager: D. PELHAM
Architect: -
I&C/Process: -
Civil: T.TIEDEMANN
Mechanical: -
Electrical: -
Structural: -
Environmental: -
Drawn By: -

LENA ROAD LANDFILL SEQUENTIAL FILLING PLAN

MANATEE COUNTY FLORIDA

Plan View - Cross Sections
October 1998 (t = 24)

Date: 3/28/97
Scale: AS NOTED
Project No.: 07187-008-096
Drawing No.: C - 5
Issue: D

Y:\MANATEE\MCSF9204.DWG

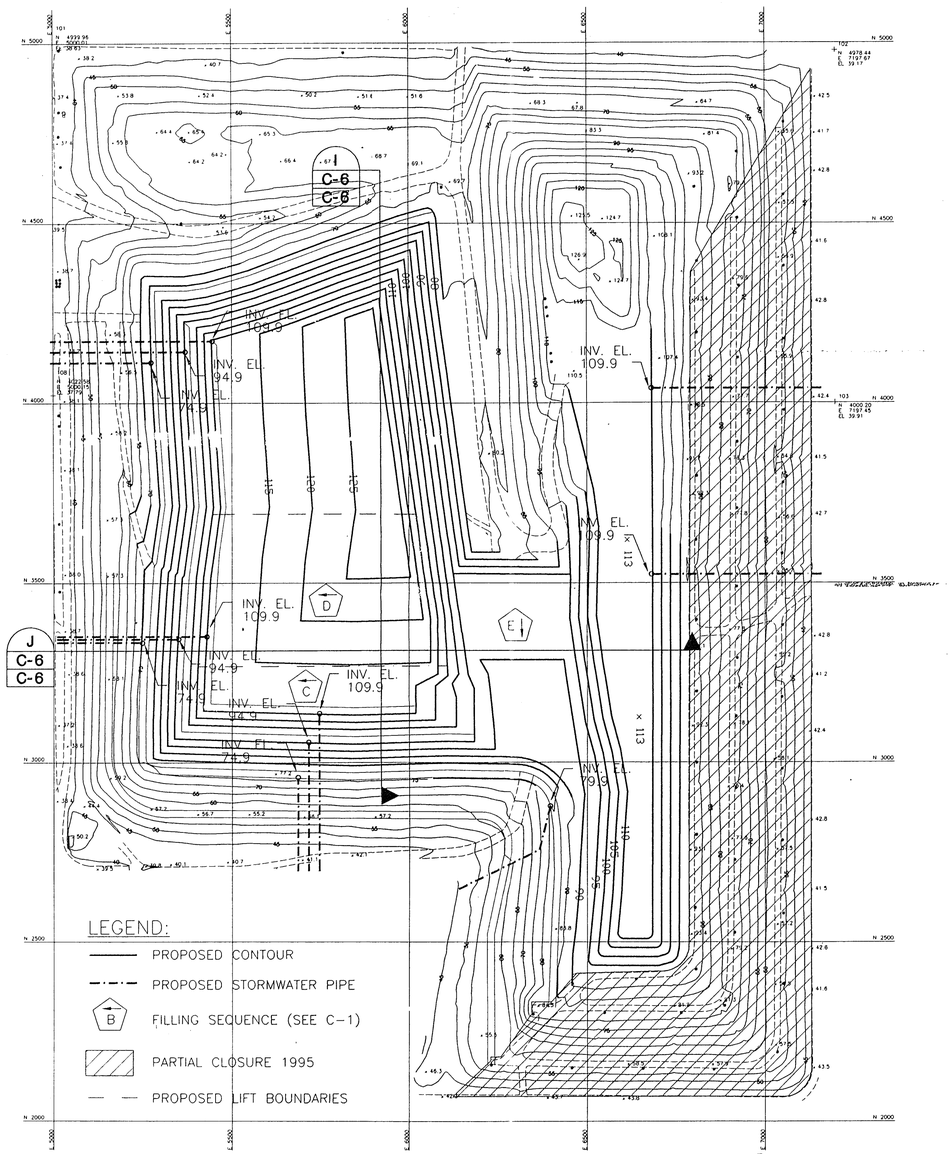
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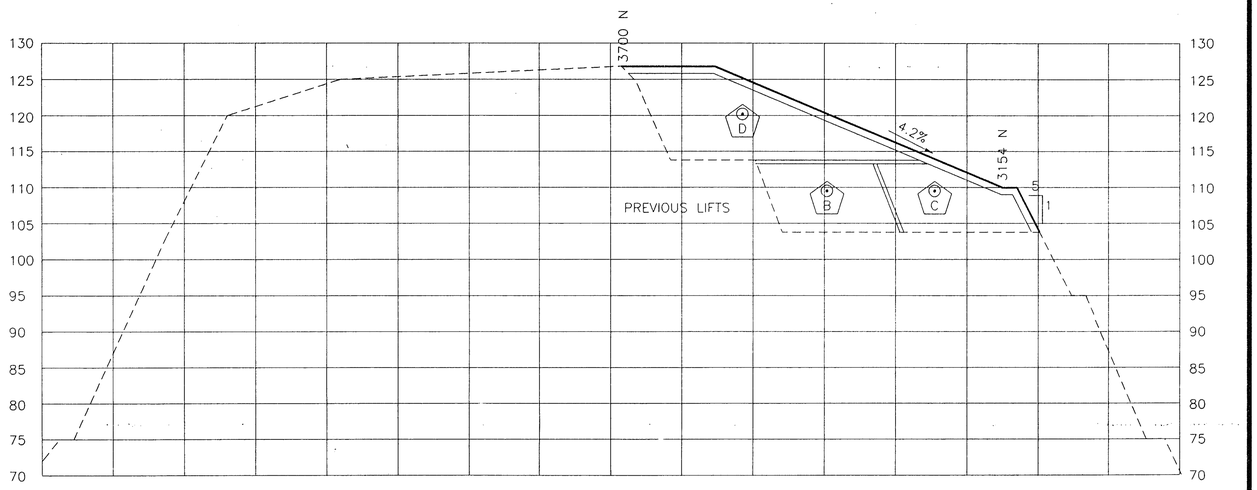
GRAPHIC SCALE

200 0 100 200 400

(IN FEET)
1 inch = 200 ft



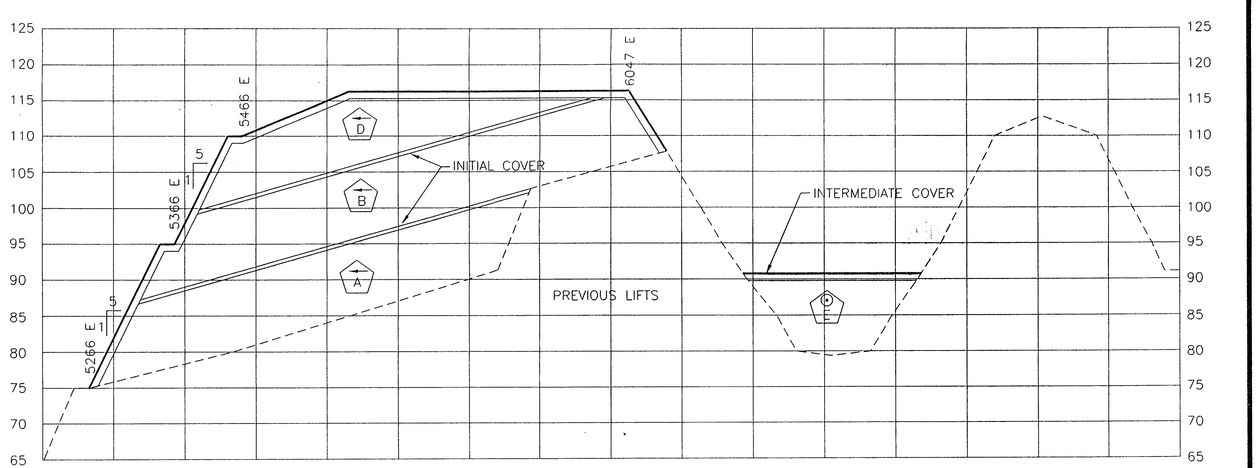
NOTE:
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CROSS SECTION

HORZ. 1" = 100'
VERT. 1" = 10'

I
C-6
C-6



CROSS SECTION

HORZ. 1" = 100'
VERT. 1" = 10'

J
C-6
C-6

D.E.P.
MAR 2 8 1997
SOUTHWEST DISTRICT
TAMPA

Issue No.	Description	Date	Drwn.	Chkd.	Resp. Engr.	Proj. Mgr.
D	DEP SUBMITTAL (RAI #1)	3/97	TJT	DMP		
C	DEP SUBMITTAL	1/97	TJT	DMP		
B	90 PERCENT REVIEW	12/96	TJT	DMP		
A	COUNTY REVIEW	9/96	TJT	DMP		

HDR Engineering, Inc.
Tampa, Florida

Project Manager	D. PELHAM
Architect	-
I&C/Process	-
Civil	T.TIEDEMANN
Mechanical	-
Electrical	-
Structural	-
Environmental	-
Drawn By	-

LENA ROAD LANDFILL SEQUENTIAL FILLING PLAN

MANATEE COUNTY FLORIDA

Plan View - Cross Sections
April 1999 (t = 30)

Date	Project No.	Drawing No.	Issue
3/28/97	07187-008-096	C - 6	D
Scale: AS NOTED			

Y:\MANATEE\MCSF\SCSDWG

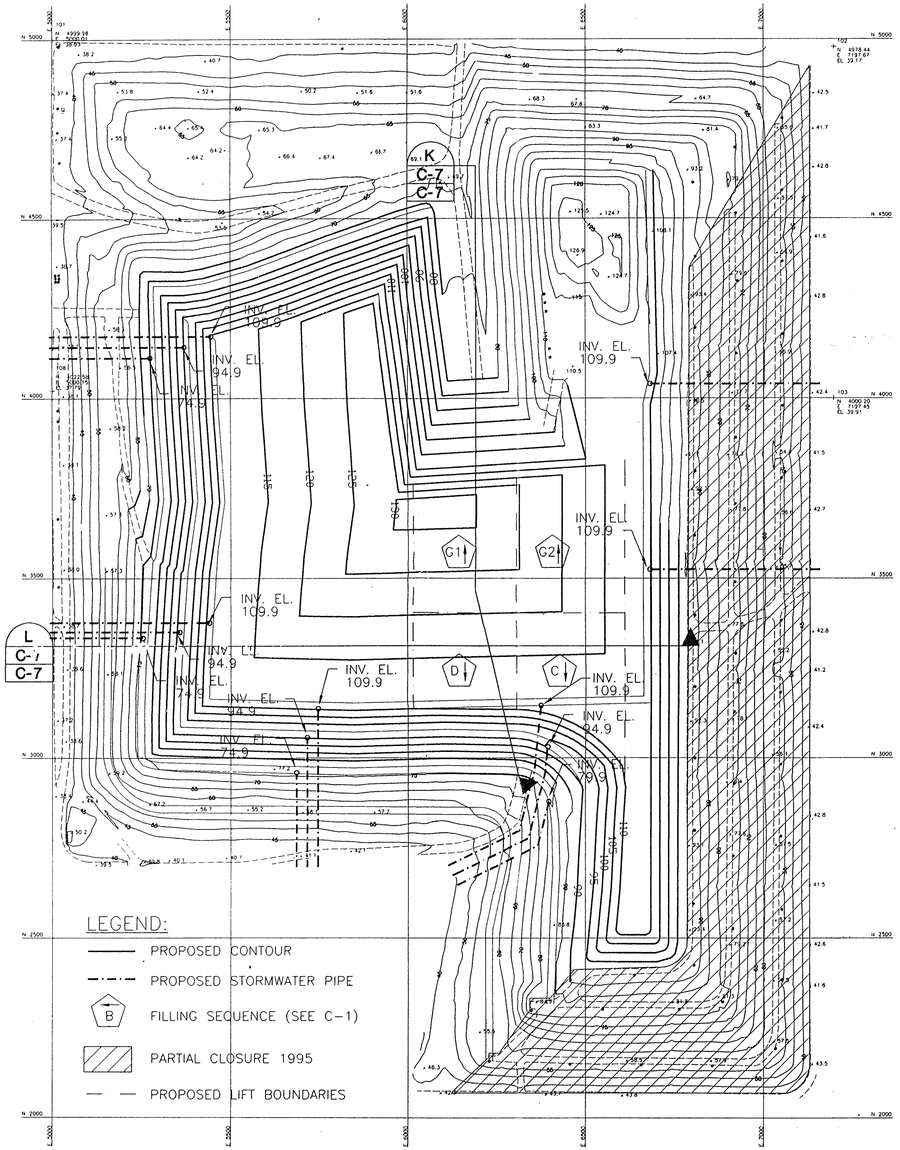
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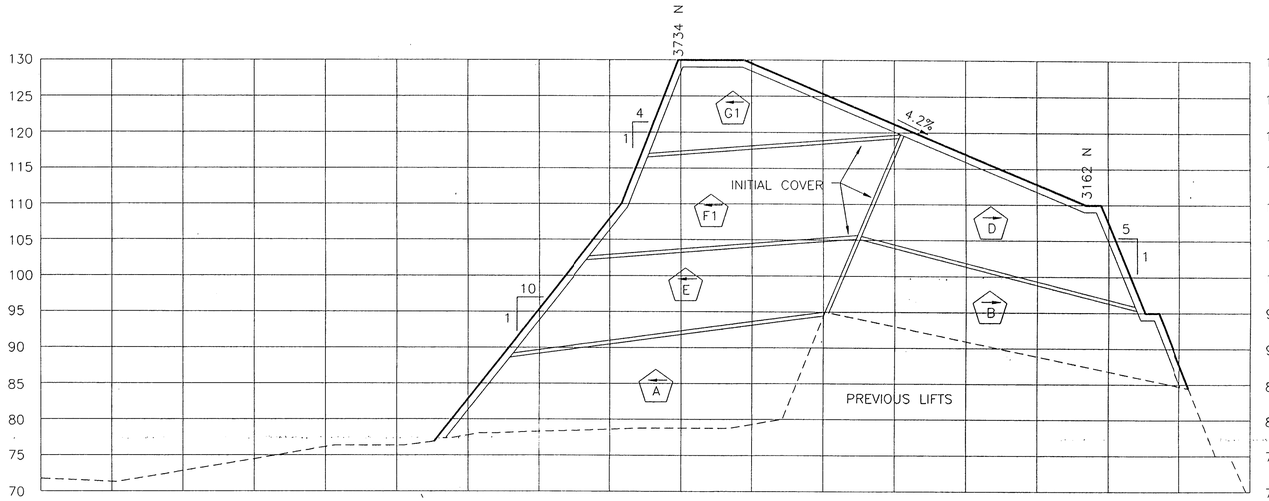
GRAPHIC SCALE

200 0 100 200 400

(IN FEET)
1 inch = 200 ft.



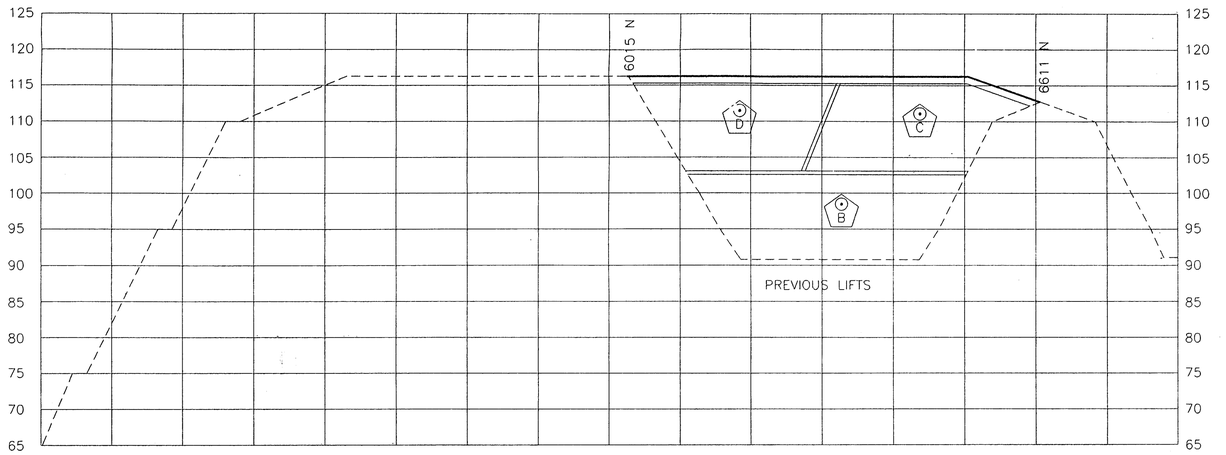
NOTE:
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CROSS SECTION

HORZ. 1" = 100'
VERT. 1" = 10'

K
C-7
C-7



CROSS SECTION

HORZ. 1" = 100'
VERT. 1" = 10'

L
C-7
C-7

D.E.P.
MAR 2 8 1997
SOUTHWEST DISTRICT
TAMPA

Issue No.	Description	Date	Drwn.	Chkd.	Resp. Engr.	Proj. Mgr.
D	DEP SUBMITTAL (RAI #1)	3/97	TJT	DMP		
C	DEP SUBMITTAL	1/97	TJT	DMP		
B	90 PERCENT REVIEW	12/96	TJT	DMP		
A	COUNTY REVIEW	9/96	TJT	DMP		

HDR Engineering, Inc.
Tampa, Florida

Project Manager: D. PELHAM
Architect: -
I&C/Process: -
Civil: T.TIEDEMANN
Mechanical: -
Electrical: -
Structural: -
Environmental: -
Drawn By: -

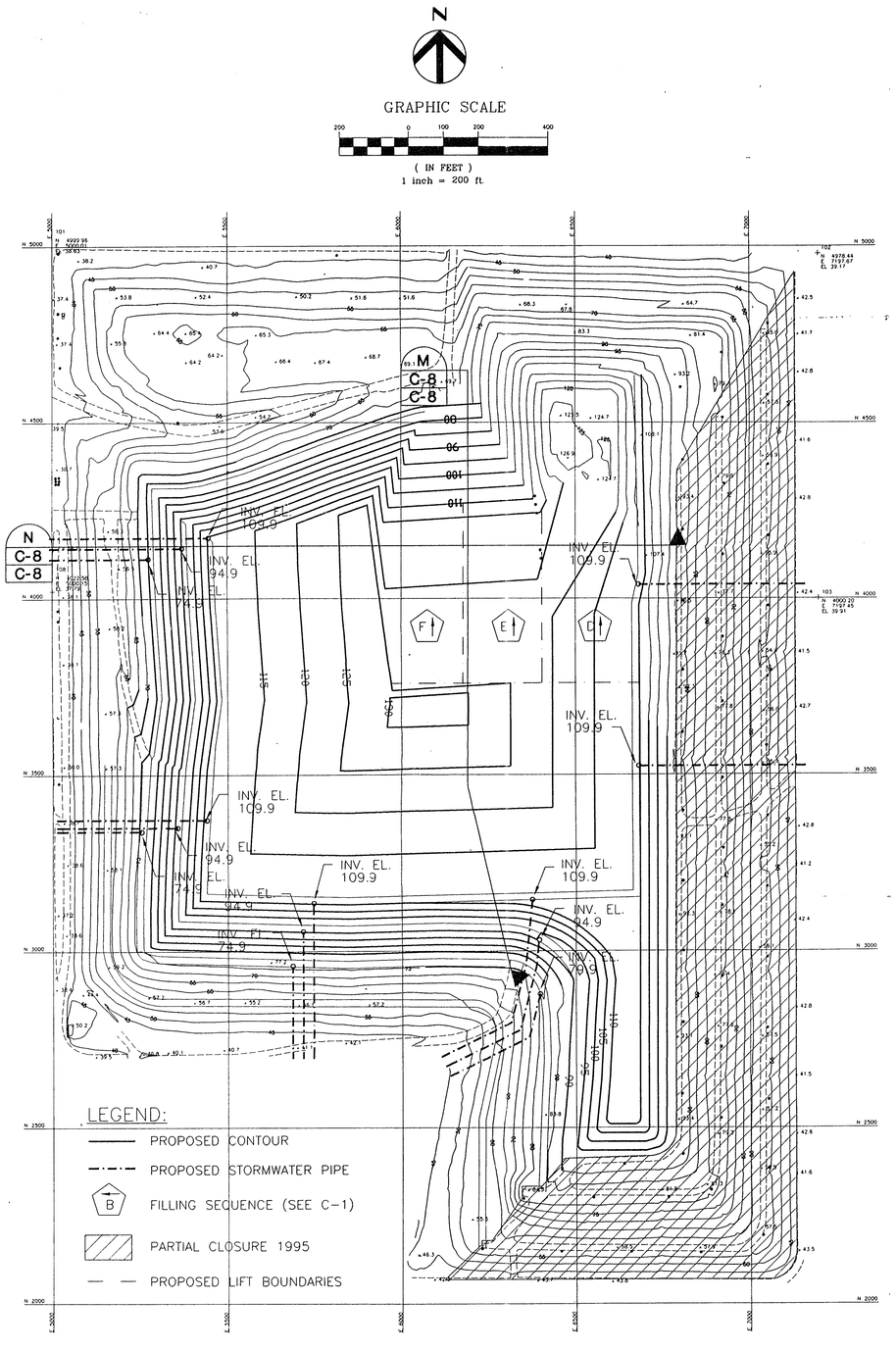
LENA ROAD LANDFILL SEQUENTIAL FILLING PLAN

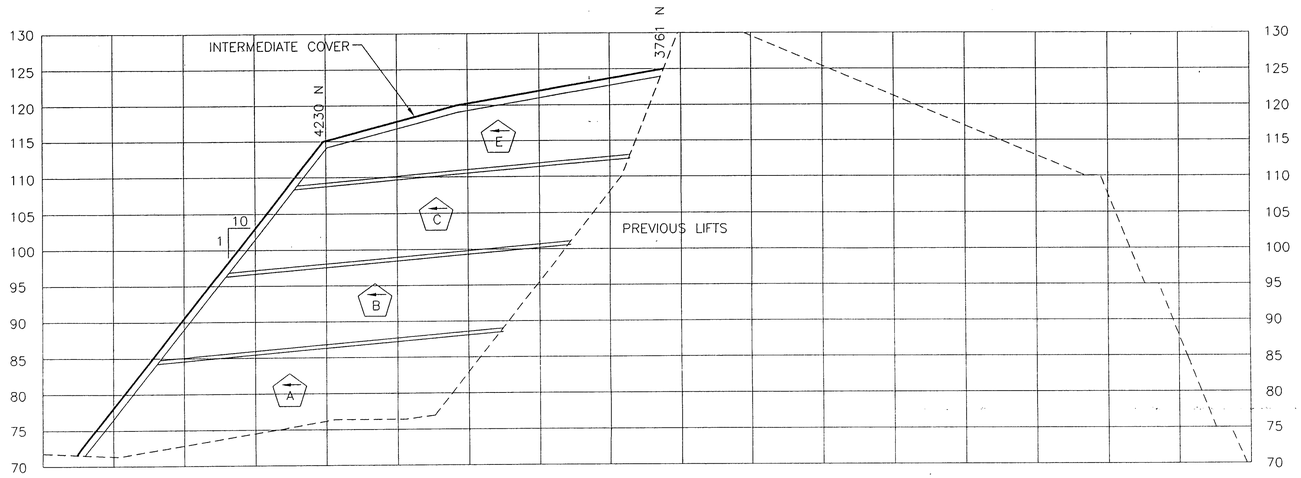
MANATEE COUNTY FLORIDA

Plan View - Cross Sections
October 1999 (t = 36)

Date: 3/28/97
Scale: AS NOTED
Project No.: 07187-008-096
Drawing No.: C - 7
Issue: D

Y:\MANATEE\MCSF\3036





CROSS SECTION

HORZ. 1" = 100'
VERT. 1" = 10'

M
C-8
C-8

CROSS SECTION

HORZ. 1" = 100'
VERT. 1" = 10'

N
C-8
C-8

D.E.P.
MAR 2 8 1997
SOUTHWEST DISTRICT
TAMPA

NOTE:
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Issue No.	Description	Date	Drwn.	Chkd.	Resp. Engr.	Proj. Mgr.
D	DEP SUBMITTAL (RAI #1)	3/97	TJT	DMP		
C	DEP SUBMITTAL	1/97	TJT	DMP		
B	90 PERCENT REVIEW	12/96	TJT	DMP		
A	COUNTY REVIEW	9/96	TJT	DMP		

HDR Engineering, Inc.
Tampa, Florida

Project Manager: D. PELHAM
Architect: -
I&C/Process: -
Civil: T.TIEDEMANN
Mechanical: -
Electrical: -
Structural: -
Environmental: -
Drawn By: -

LENA ROAD LANDFILL SEQUENTIAL FILLING PLAN

MANATEE COUNTY FLORIDA

Plan View - Cross Sections April 2000 (t = 42)

Date: 3/28/97
Scale: AS NOTED
Project No.: 07187-008-096
Drawing No.: C - 8
Issue: D

Y:\MANATEE\MCSF5042

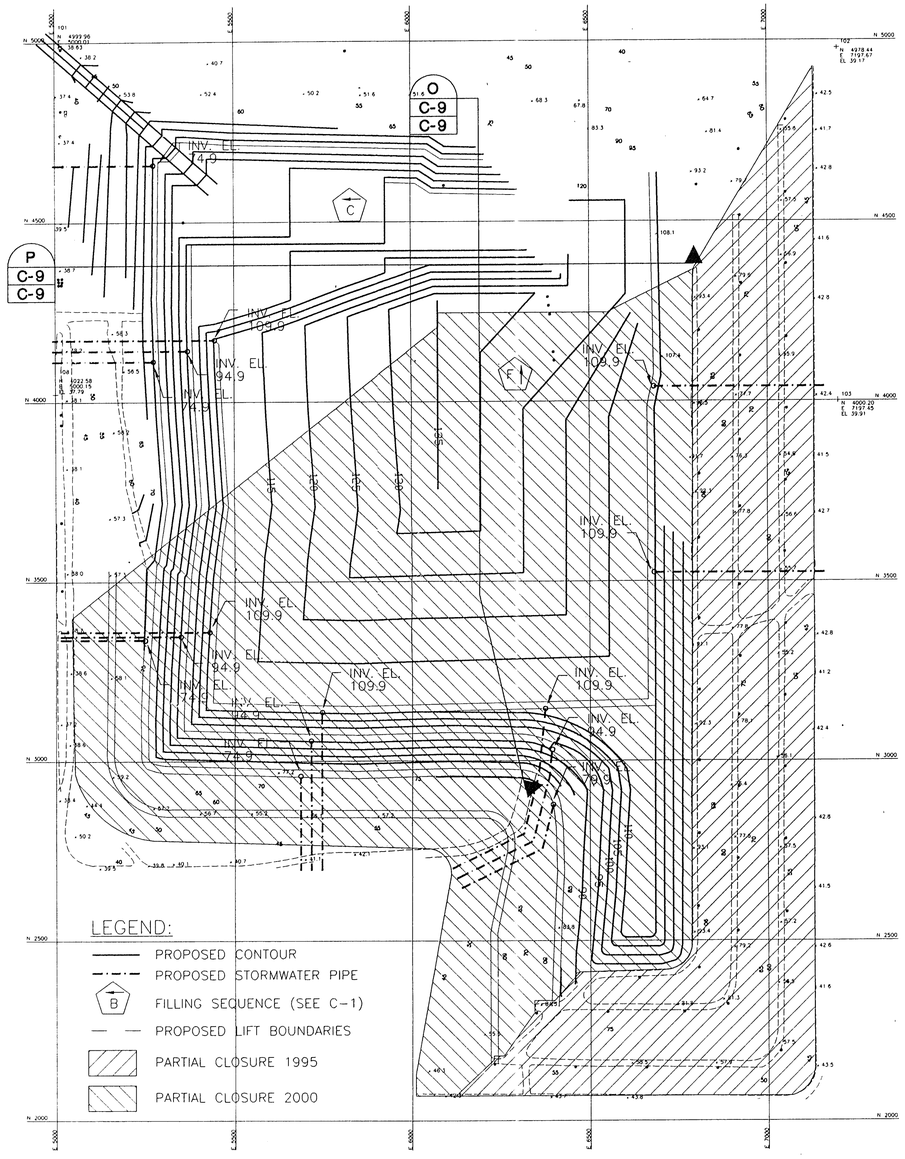
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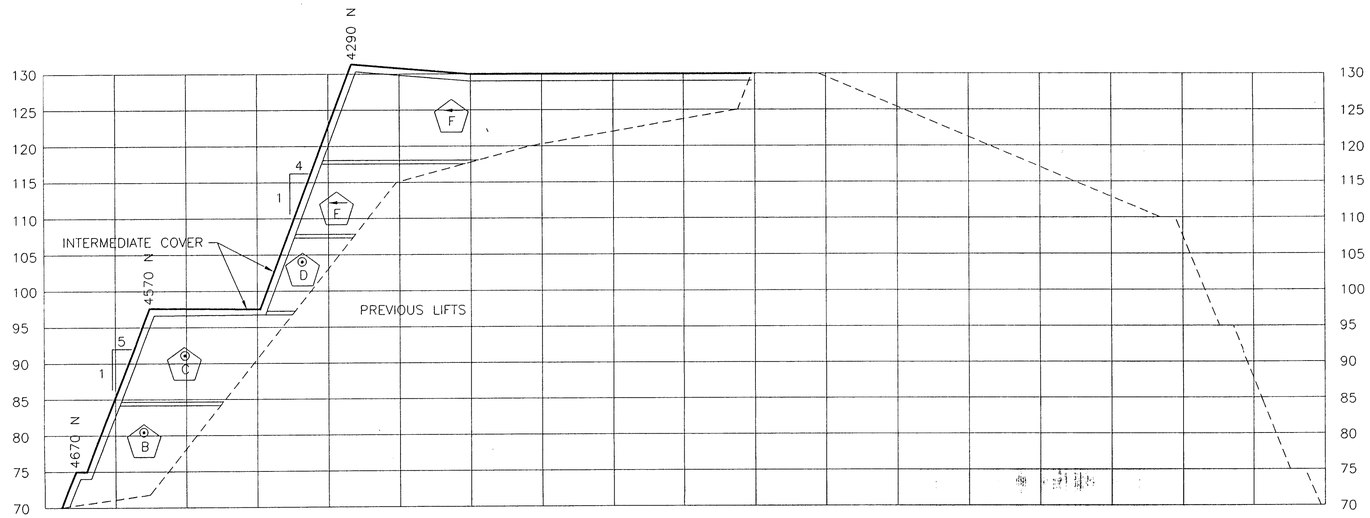
GRAPHIC SCALE

200 0 100 200 400

(IN FEET)
1 inch = 200 ft.



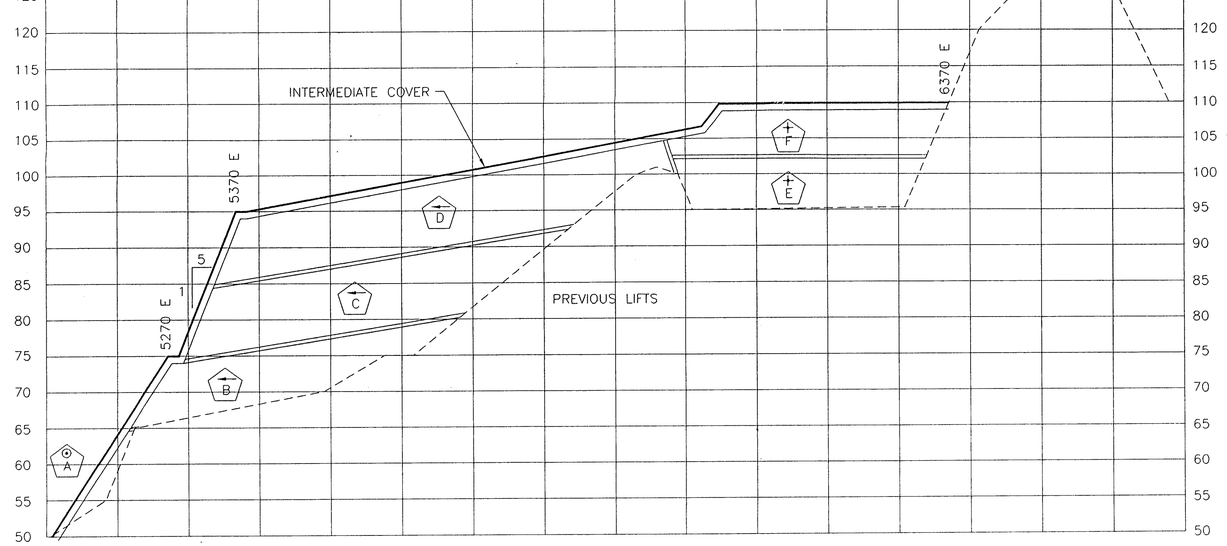
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CROSS SECTION

HORZ. 1" = 100'
VERT. 1" = 10'

O
C-9
C-9



CROSS SECTION

HORZ. 1" = 100'
VERT. 1" = 10'

P
C-9
C-9

D.E.P.
MAR 28 1997
SOUTHWEST DISTRICT
TAMPA

Issue No.	Description	Date	Drawn.	Chkd.	Resp. Engr.	Proj. Mgr.
D	DEP SUBMITTAL (RAI #1)	3/97	TJT	DMP		
C	DEP SUBMITTAL	1/97	TJT	DMP		
B	90 PERCENT REVIEW	12/96	TJT	DMP		
A	COUNTY REVIEW	9/96	TJT	DMP		

HDR Engineering, Inc.
Tampa, Florida

Project Manager: D. PELHAM
Architect: -
I&C/Process: -
Civil: T.TIEDEMANN
Mechanical: -
Electrical: -
Structural: -
Environmental: -
Drawn By: -

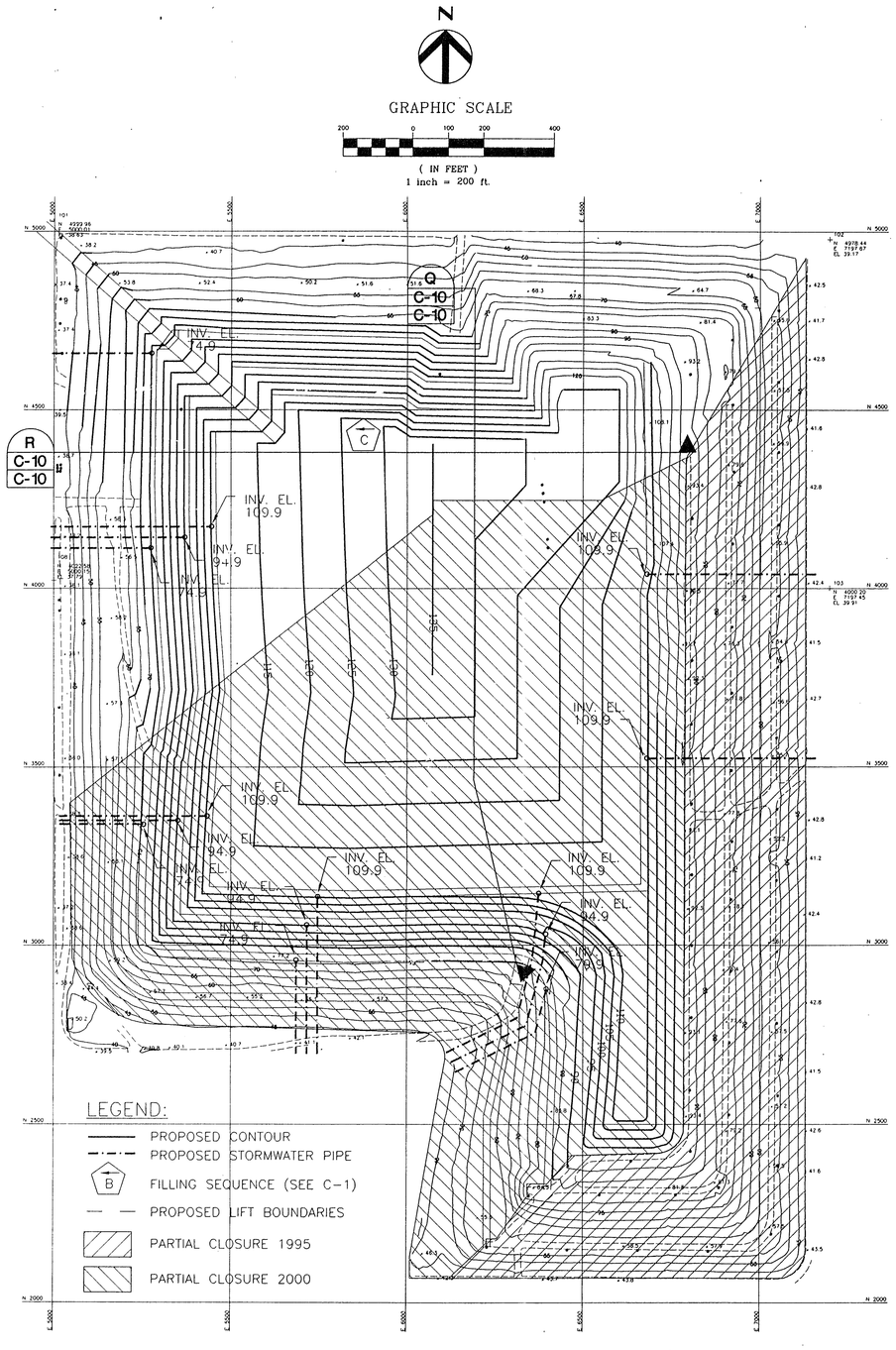
LENA ROAD LANDFILL SEQUENTIAL FILLING PLAN

MANATEE COUNTY FLORIDA

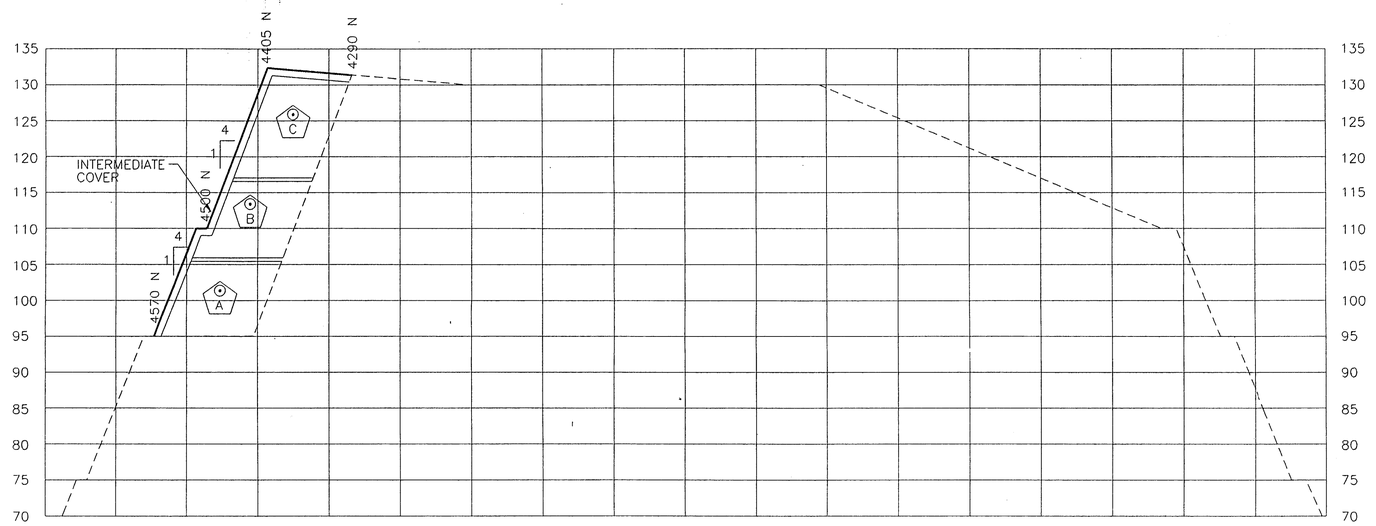
Plan View - Cross Sections
October 2000 (t = 48)

Date: 3/28/97
Scale: AS NOTED
Project No.: 07187-008-096
Drawing No.: C - 9
Issue: D

Y:\MANATEE\MC9F8048.DWG



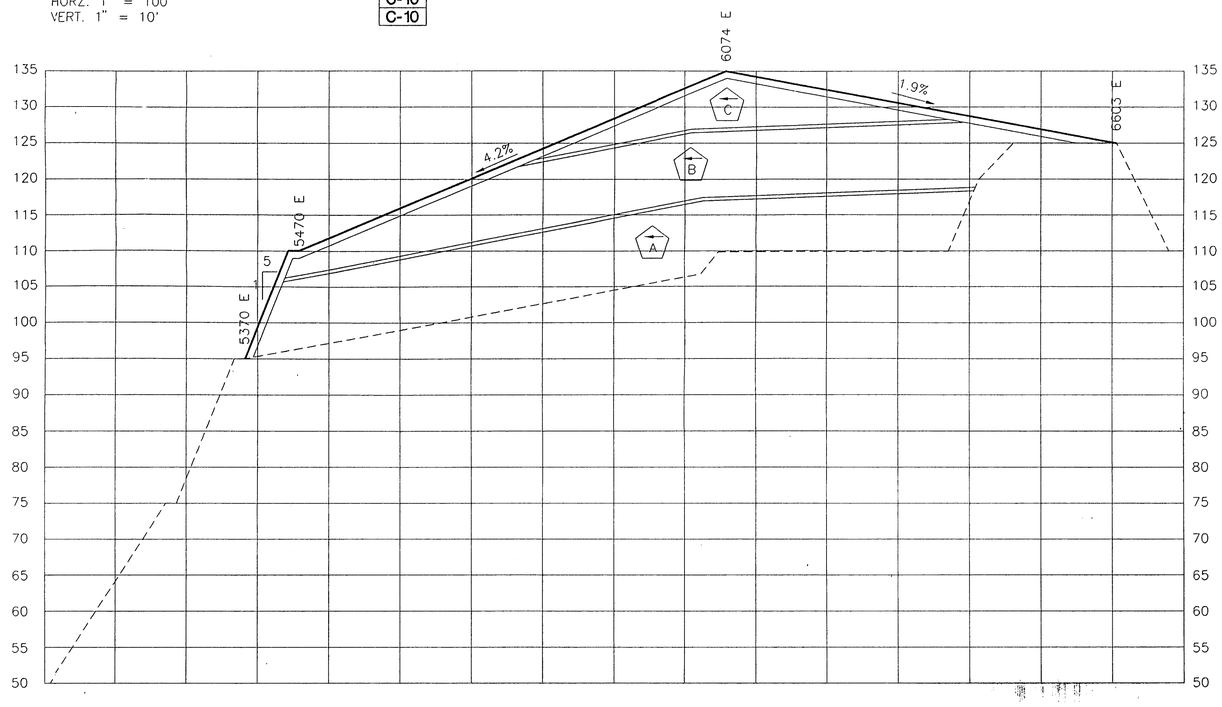
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CROSS SECTION

HORZ. 1" = 100'
VERT. 1" = 10'

Q
C-10
C-10



CROSS SECTION

HORZ. 1" = 100'
VERT. 1" = 10'

R
C-10
C-10

D.E.P.
MAR 2 8 1997
SOUTHWEST DISTRICT
TAMPA

Issue No.	Description	Date	Drwn.	Chkd.	Resp. Engr.	Proj. Mgr.
D	DEP SUBMITTAL (RAI #1)	3/97	TJT	DMP		
C	DEP SUBMITTAL	1/97	TJT	DMP		
B	90 PERCENT REVIEW	12/96	TJT	DMP		
A	COUNTY REVIEW	9/96	TJT	DMP		

HDR Engineering, Inc.
Tampa, Florida

Project Manager: D. PELHAM
Architect: -
T&C/Process: -
Civil: T.TIEDEMANN
Mechanical: -
Electrical: -
Structural: -
Environmental: -
Drawn By: -

LENA ROAD LANDFILL SEQUENTIAL FILLING PLAN

MANATEE COUNTY FLORIDA

Plan View - Cross Sections
April 2001 (t = 54)

Date: 3/28/97
Scale: AS NOTED
Project No.: 07187-008-096
Drawing No.: C - 10
Issue: D

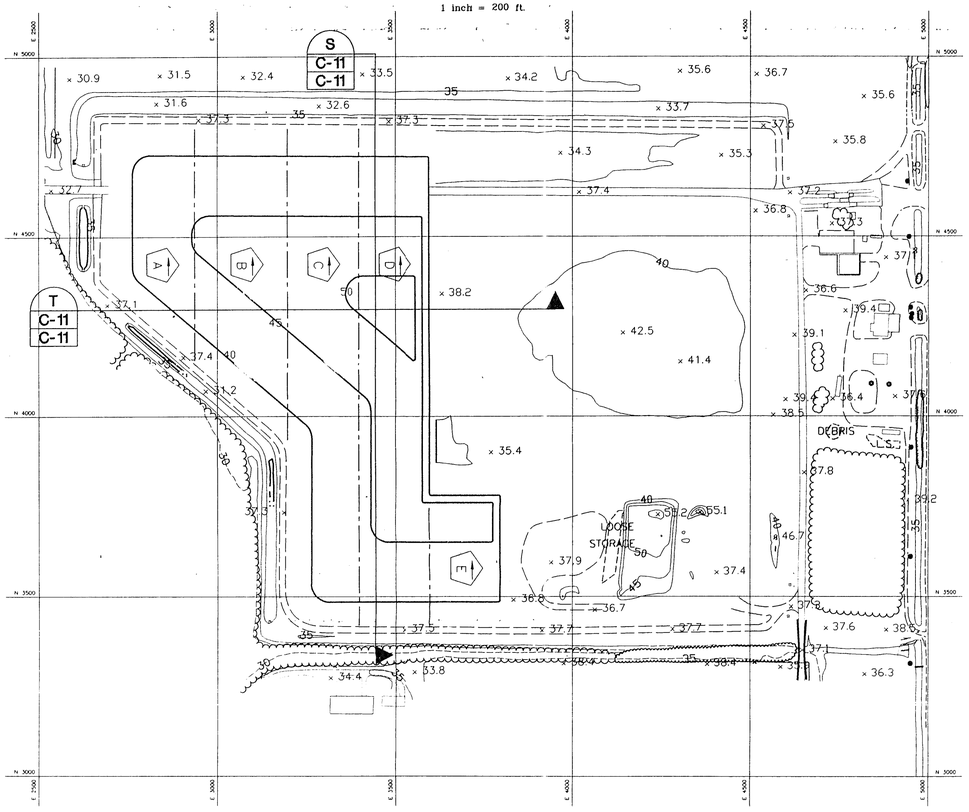
Y:\MANATEE\MC2FS004.DWG

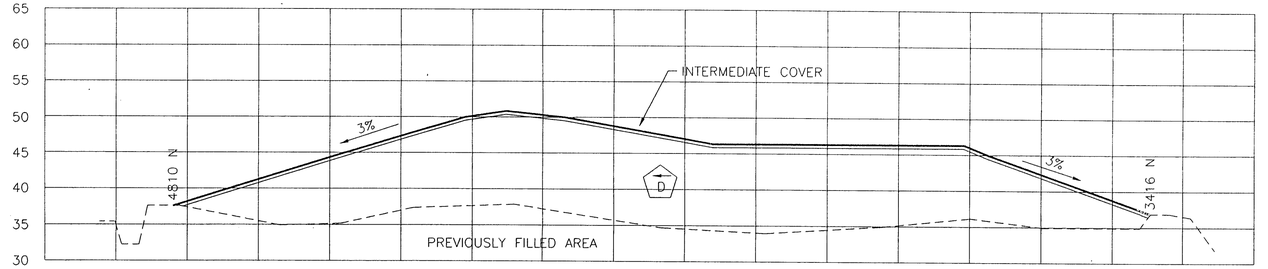
N

GRAPHIC SCALE

200 0 100 200 400

(IN FEET)
1 inch = 200 ft.

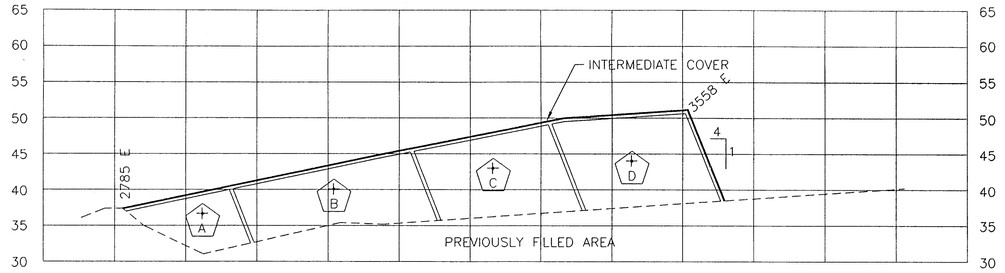




CROSS SECTION

HORZ. 1" = 100'
VERT. 1" = 10'

S
C-11
C-11



CROSS SECTION

HORZ. 1" = 100'
VERT. 1" = 10'

T
C-11
C-11

LEGEND:

- PROPOSED CONTOUR
- PROPOSED STORMWATER PIPE
- B — FILLING SEQUENCE (SEE C-1)
- PROPOSED LIFT BOUNDARIES

NOTE:
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D.E.P.
MAR 2 8 1997
SOUTHWEST DISTRICT
TAMPA

Issue No.	Description	Date	Drwn.	Chkd.	Resp. Engr.	Proj. Mgr.
C	DEP SUBMITTAL (RAI #1)	3/97	TJT	DMP		
B	DEP SUBMITTAL	1/97	TJT	DMP		
A	90 PERCENT REVIEW	12/96	TJT	DMP		

HDR Engineering, Inc.
Tampa, Florida

Y:\MANATEE\MC9F3060

Project Manager	D. PELHAM
Architect	-
I&C/Process	-
Civil	T.TIEDEMANN
Mechanical	-
Electrical	-
Structural	-
Environmental	-
Drawn By	-

LENA ROAD LANDFILL SEQUENTIAL FILLING PLAN

MANATEE COUNTY FLORIDA

Plan View - Cross Sections
October 2001 (t = 60)

Date	Project No.	Drawing No.	Issue
3/28/97	07187-008-096	C - 11	C

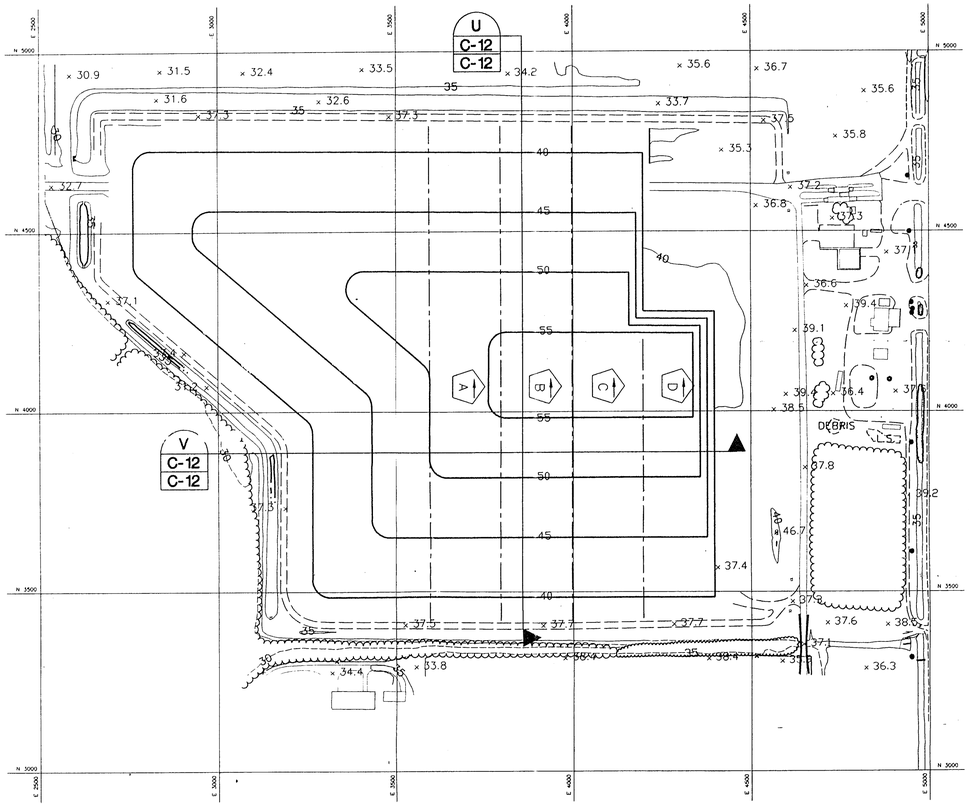
Scale: AS NOTED

N

GRAPHIC SCALE

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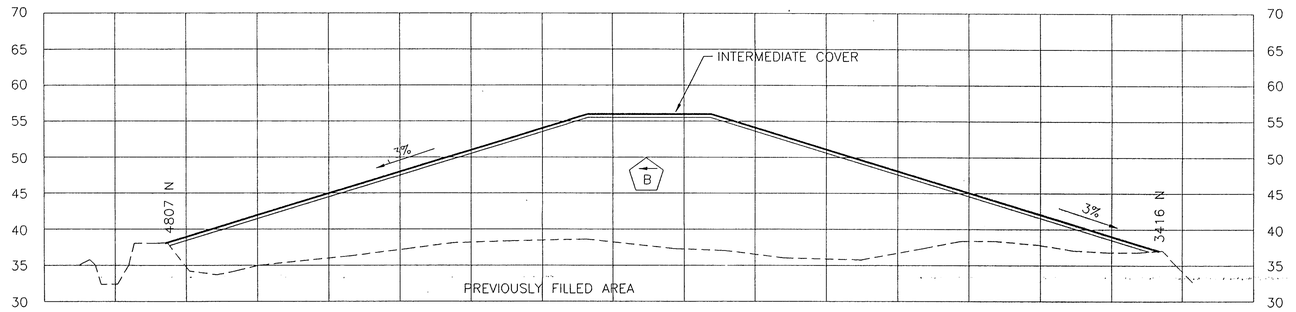
(IN FEET)
1 inch = 200 ft.



LEGEND:

- PROPOSED CONTOUR
- PROPOSED STORMWATER PIPE
- (B) FILLING SEQUENCE (SEE C-1)
- PROPOSED LIFT BOUNDARIES

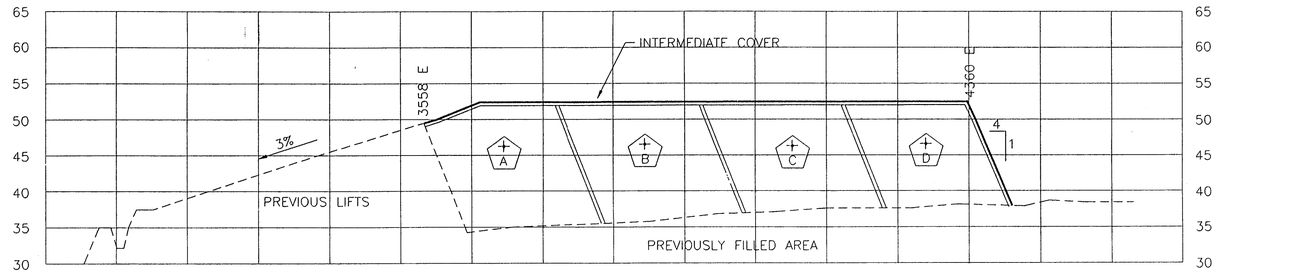
NOTE:
PPOPOSED GRADES ARE APPROXIMATE ONLY. ACTUAL GRADES WILL DEPEND ON ACTUAL WASTE VOLUMES. GRADES WILL ALSO BE ADJUSTED DURING OPERATIONS TO PROVIDE FOR DITCHES AND SURFACE SLOPES CONSISTENT WITH FLOWLINES SHOWN ON THIS DRAWING AND TYPICAL SECTIONS.



CROSS SECTION

HORZ. 1" = 100'
VERT. 1" = 10'

U
C-12
C-12



CROSS SECTION

HORZ. 1" = 100'
VERT. 1" = 10'

V
C-12
C-12

D.E.P.
MAR 2 8 1997
SOUTHWEST DISTRICT
TAMPA

HDR Engineering, Inc.
Tampa, Florida

Issue No.	Description	Date	Drwn.	Chkd.	Resp. Engr.	Proj. Mgr.
C	DEP SUBMITTAL (RAI #1)	3/97	TJT	DMP		
B	DEP SUBMITTAL	1/97	TJT	DMP		
A	90 PERCENT REVIEW	12/96	TJT	DMP		

Project Manager	D. PELHAM
Architect	-
I&C/Process	-
Civil	T.TIEDEMANN
Mechanical	-
Electrical	-
Structural	-
Environmental	-
Drawn By	-

LENA ROAD LANDFILL SEQUENTIAL FILLING PLAN

MANATEE COUNTY FLORIDA

Plan View - Cross Sections
April 2002 (t = 66)

Date	Project No.	Drawing No.	Issue
3/28/97	07187-008-096	C - 12	C
Scale: AS NOTED			

Y:\MANATEE\MCSFS066

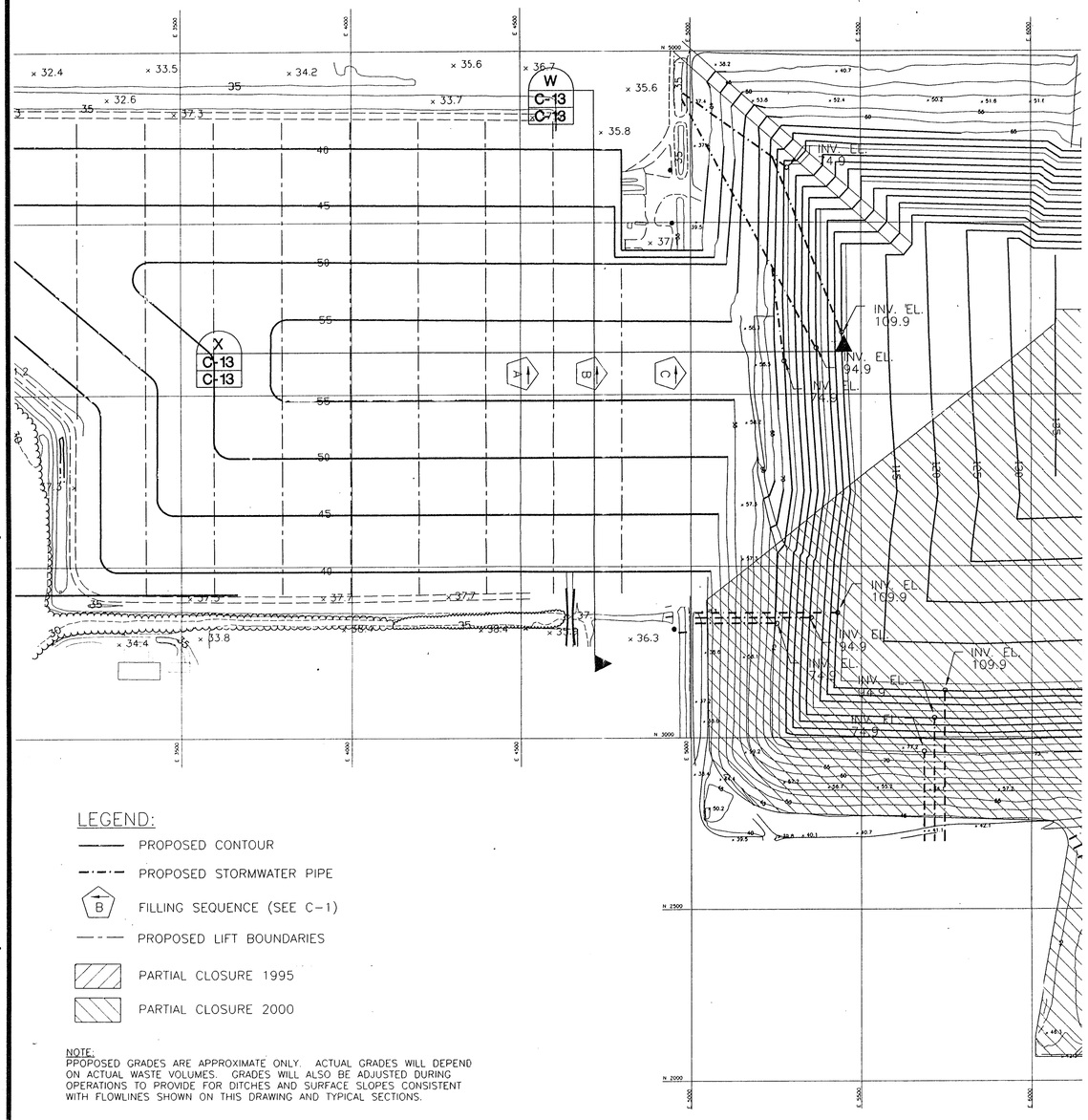
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N

GRAPHIC SCALE

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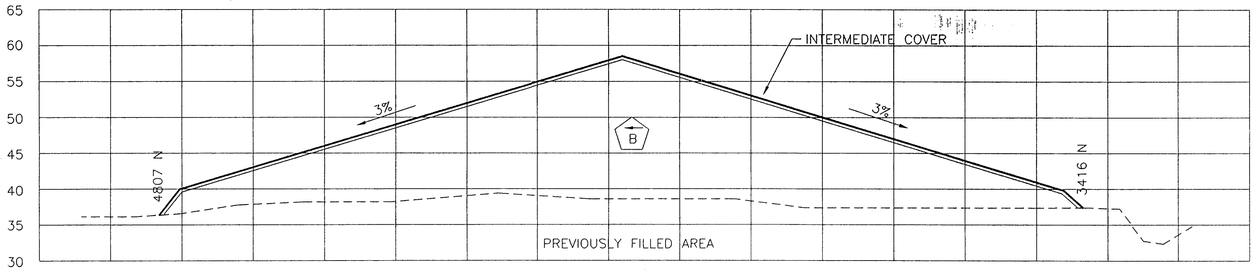
(IN FEET)
1 inch = 200 ft.



LEGEND:

- PROPOSED CONTOUR
- PROPOSED STORMWATER PIPE
- B — FILLING SEQUENCE (SEE C-1)
- PROPOSED LIFT BOUNDARIES
- PARTIAL CLOSURE 1995
- PARTIAL CLOSURE 2000

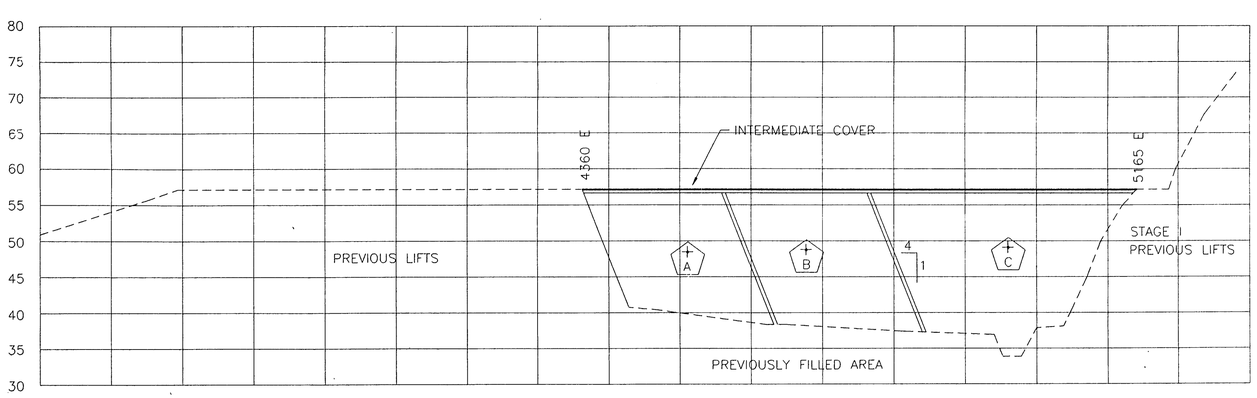
NOTE:
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CROSS SECTION

HORZ. 1" = 100'
VERT. 1" = 10'

W
C-13
C-13



CROSS SECTION

HORZ. 1" = 100'
VERT. 1" = 10'

X
C-13
C-13

D.E.P.
MAR 2 8 1997
SOUTHWEST DISTRICT
TAMPA

Issue No.	Description	Date	Drwn.	Chkd.	Resp. Engr.	Proj. Mgr.
C	DEP SUBMITTAL (RAI #1)	3/97	TJT	DMP		
B	DEP SUBMITTAL	1/97	TJT	DMP		
A	90 PERCENT REVIEW	12/96	TJT	DMP		

HDR Engineering, Inc.
Tampa, Florida

Project Manager: D. PELHAM
Architect: -
I&C/Process: -
Civil: T.TIEDEMANN
Mechanical: -
Electrical: -
Structural: -
Environmental: -
Drawn By: -

LENA ROAD LANDFILL SEQUENTIAL FILLING PLAN

MANATEE COUNTY FLORIDA

Plan View - Cross Sections
October 2002 (t = 72)

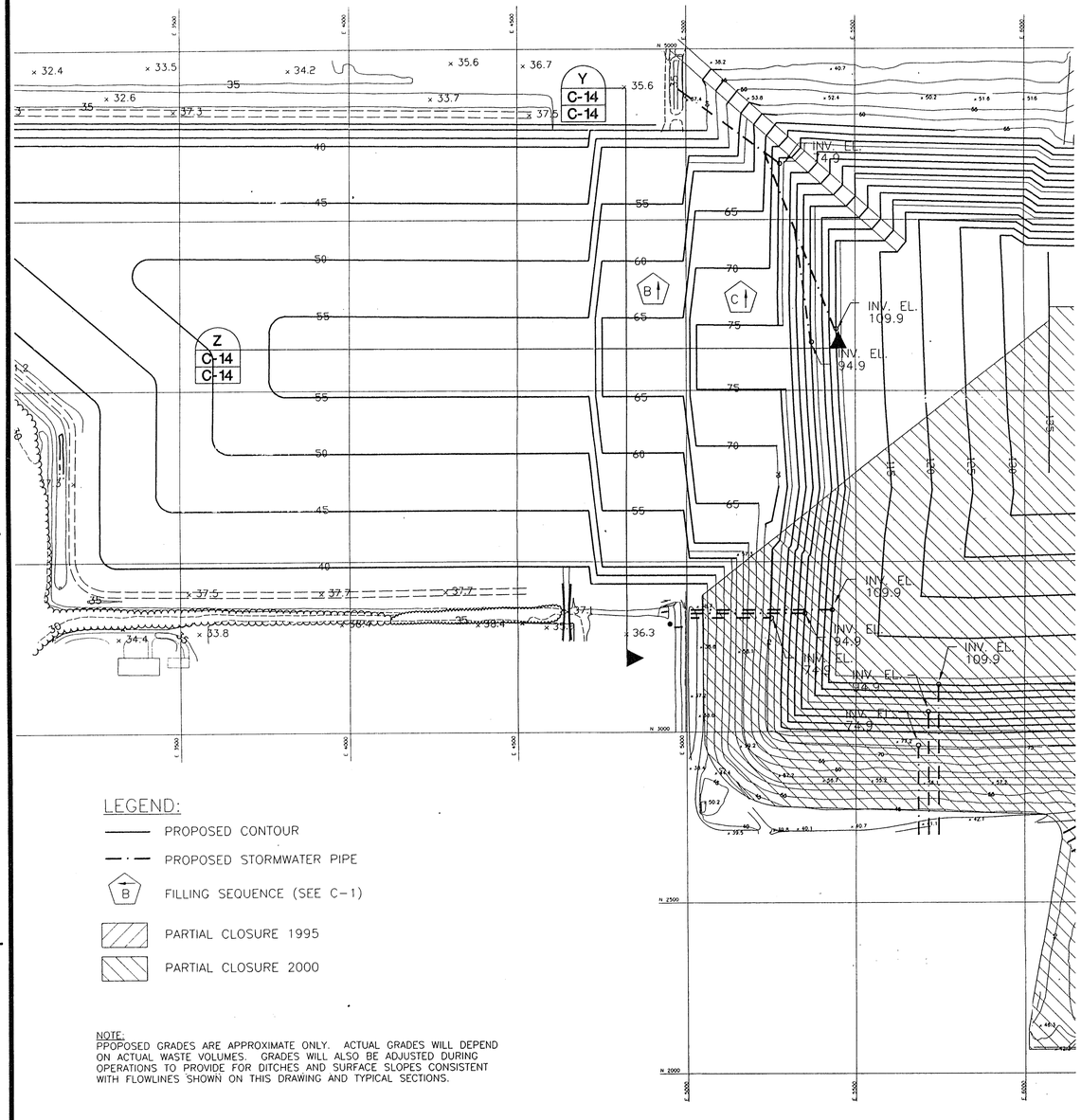
Date: 3/28/97
Scale: AS NOTED
Project No.: 07187-008-096
Drawing No.: C - 13
Issue: C

Y:\MANATEE\MCSF8072

GRAPHIC SCALE

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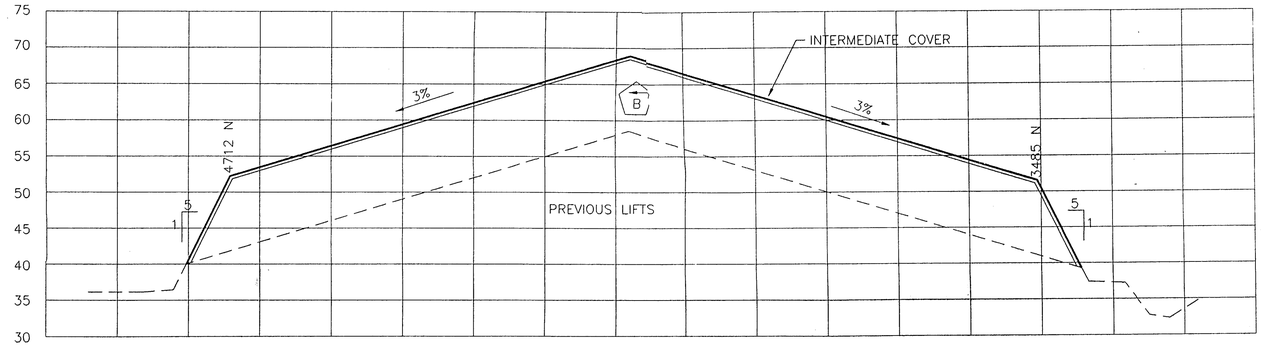
(IN FEET)
1 inch = 200 ft.



LEGEND:

- PROPOSED CONTOUR
- PROPOSED STORMWATER PIPE
- (B) FILLING SEQUENCE (SEE C-1)
- PARTIAL CLOSURE 1995
- PARTIAL CLOSURE 2000

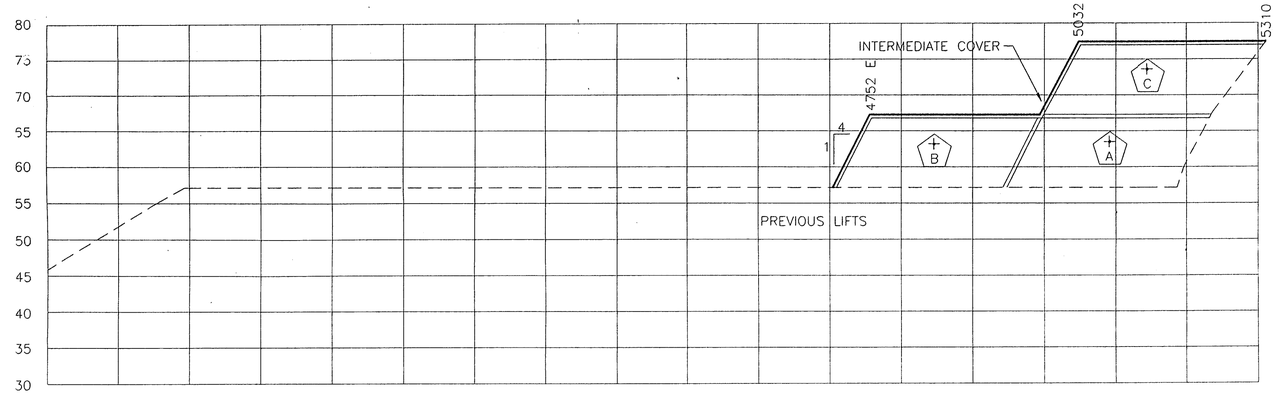
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CROSS SECTION

HORZ. 1" = 100'
VERT. 1" = 10'

Y
C-14
C-14



CROSS SECTION

HORZ. 1" = 100'
VERT. 1" = 10'

Z
C-14
C-14

D.E.P.
MAR 2 8 1997
SOUTHWEST DISTRICT
TAMPA

HDR Engineering, Inc.
Tampa, Florida

Issue No.	Description	Date	Drwn.	Chkd.	Resp. Engr.	Proj. Mgr.
C	DEP SUBMITTAL (RAI #1)	3/97	TJT	DMP		
B	DEP SUBMITTAL	1/97	TJT	DMP		
A	90 PERCENT REVIEW	12/96	TJT	DMP		

Project Manager: D. PELHAM
Architect: - | I&C/Process: -
Civil: T.TIEDEMANN | Mechanical: -
Electrical: - | Structural: -
Environmental: - | Drawn By: -

LENA ROAD LANDFILL SEQUENTIAL FILLING PLAN

MANATEE COUNTY FLORIDA

Plan View - Cross Sections
April 2003 (t = 78)

Date 3/28/97 | Project No. 07187-008-096 | Drawing No. C - 14 | Issue C
Scale AS NOTED

Y:\MANATEE\MCSF\5078

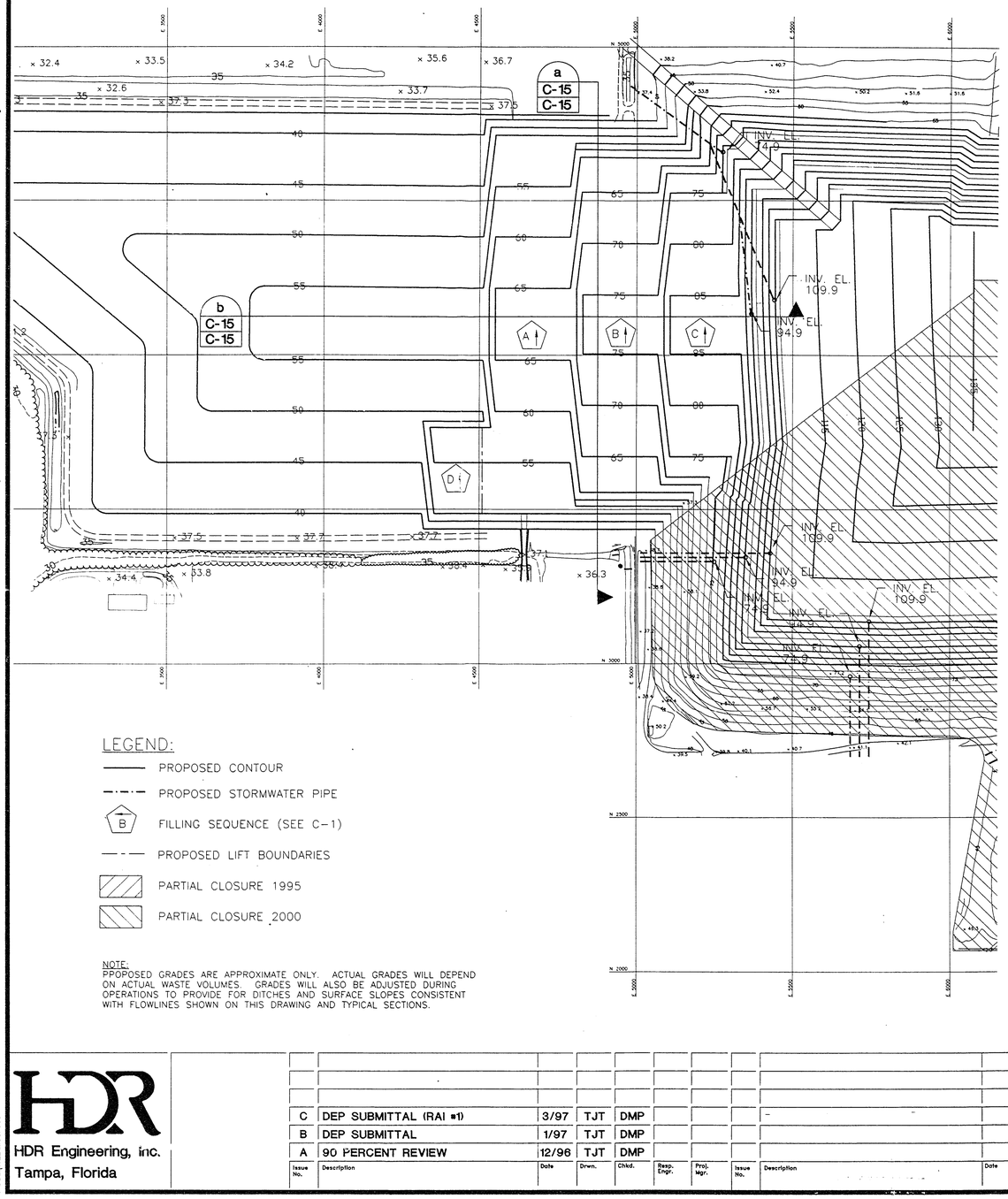
24

N

GRAPHIC SCALE

200 0 100 200 400

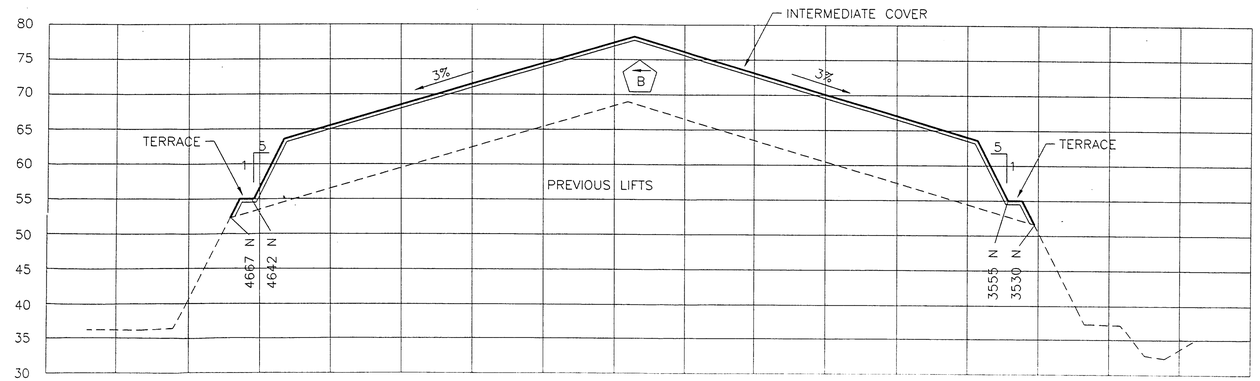
(IN FEET)
1 inch = 200 ft.



LEGEND:

- PROPOSED CONTOUR
- PROPOSED STORMWATER PIPE
- B — FILLING SEQUENCE (SEE C-1)
- PROPOSED LIFT BOUNDARIES
- PARTIAL CLOSURE 1995
- PARTIAL CLOSURE 2000

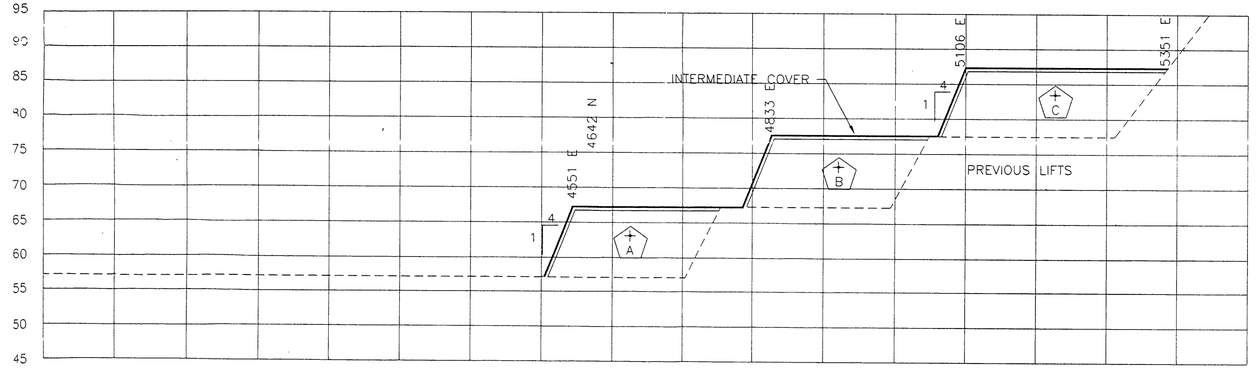
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CROSS SECTION

HORZ. 1" = 100'
VERT. 1" = 10'

a
C-15
C-15



CROSS SECTION

HORZ. 1" = 100'
VERT. 1" = 10'

b
C-15
C-15

Issue No.	Description	Date	Drwn.	Chkd.	Resp. Engr.	Proj. Mgr.
C	DEP SUBMITTAL (RAI #1)	3/97	TJT	DMP		
B	DEP SUBMITTAL	1/97	TJT	DMP		
A	90 PERCENT REVIEW	12/96	TJT	DMP		

HDR Engineering, Inc.
Tampa, Florida

Y:\MANATEE\MCSF\0084

Project Manager: D. PELHAM
Architect: -
I&C/Process: -
Civil: T.TIEDEMANN
Mechanical: -
Electrical: -
Structural: -
Environmental: -
Drawn By: -

LENA ROAD LANDFILL SEQUENTIAL FILLING PLAN

MANATEE COUNTY FLORIDA

Plan View - Cross Sections
October 2003 (t = 84)

Date 3/28/97
Scale AS NOTED
Project No. 07187-008-096
Drawing No. C - 15
Issue C