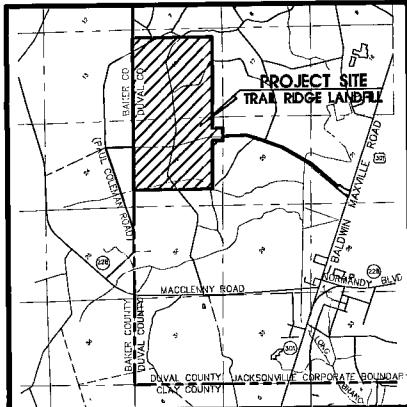


TRAIL RIDGE LANDFILL THIRD PERMIT RENEWAL FOR



WASTE MANAGEMENT

TRAIL RIDGE LANDFILL, INC. DUVAL COUNTY, FLORIDA



VICINITY MAP

England-Thims & Miller, Inc.

ENGINEERS - PLANNERS - SURVEYORS - LANDSCAPE ARCHITECTS
14775 ST. AUGUSTINE ROAD - JACKSONVILLE, FLORIDA 32258

PHONE NUMBER (904) 642-8990

CERTIFICATE OF AUTHORIZATION NUMBER: 2584

SECTION OR DETAIL SYMBOL

- 1A SECTION OR DETAIL NUMBER
- 2B (3C) SHEET ON WHICH SECTION OR DETAIL IS DRAWN
- SHEET ON WHICH SECTION OR DETAIL IS TAKEN

PROJECT NUMBER E 07-044-01
REVISED DATE: OCTOBER 15, 2008

RECEIVED
DEPARTMENT OF ENVIRONMENTAL PROTECTION
JAN 20 2009

PERMIT DOCUMENT

RELEASED FOR REGULATORY REVIEW: OCTOBER 15, 2008

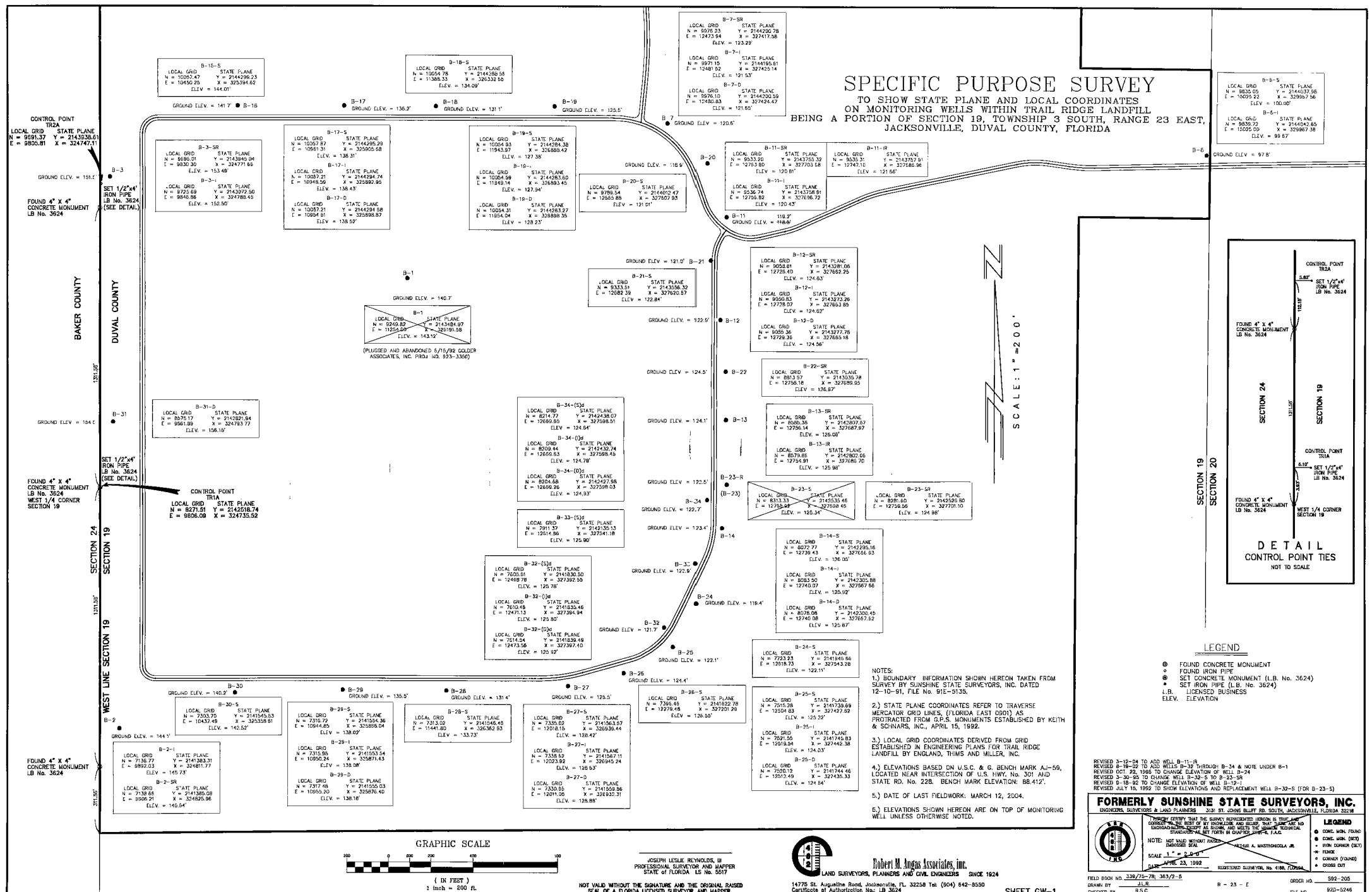
PLANS PREPARED UNDER THE DIRECTION OF:	
<i>John H. Clem</i> JOINTA BADER, CLEM, P.E. P.E. NO. 52745 Tampa, FL 33607 FAX: (813) 223-3750	
REVISIONS: E 07-044-01 1-15-08 GENERAL REVISIONS 1-12-09 GENERAL REVISIONS	
TRADE BY: S. Lockheed	TRADE BY: J. Clem
INSTITUTE BY: J. Clem	INSTITUTE BY: J. Clem
DATE: September 25, 2002	
COVER SHEET	
TRAIL RIDGE LANDFILL THIRD PERMIT RENEWAL FOR TRAIL RIDGE LANDFILL, INC.	
DRAWING INDEX	
SHEET NO.	SHEET TITLE
1	COVER SHEET
2	AERIAL PHOTOGRAPH
3	MONITORING WELL SURVEY
4	SITE PLAN
5	EXISTING TOPOGRAPHY
6	BASE GRADING PLAN
7	BOTTOM LINER PHASING PLAN
8	MASTER DRAINAGE PLAN
9	FINAL CONTOUR PLAN
9A	GAS COLLECTION SYSTEM PLAN
10	CROSS SECTIONS
11	FILL PHASING PLAN
12	FILL PHASING PLAN
13	FILL PHASING PLAN
14	CLOSURE PHASING PLAN
15	CLOSURE PHASING PLAN
16	ANCHOR TRENCH AND LINER DETAILS
17	LEACHATE TRENCH AND SUMP DETAILS
18	LEACHATE SUMP AND VAULT BOX DETAILS
19	CONTAINMENT AREA DETAILS
20	CLOSURE DETAILS
21	CLOSURE DETAILS
22	SEDIMENT AND EROSION CONTROL DETAILS
23	STORM WATER POLLUTION PREVENTION PLAN

NOTE:
THIS PLAN HAS NOT BEEN UPDATED SINCE THE SECOND PERMIT RENEWAL. GENERAL REVISIONS ARE LIMITED TO MINOR ADJUSTMENTS TO TEXT SIZE AND LOCATION AS WELL AS UPDATES TO THE BORDER AND LOGO



SPECIFIC PURPOSE SURVEY

TO SHOW STATE PLANE AND LOCAL COORDINATES
ON MONITORING WELLS WITHIN TRAIL RIDGE LANDFILL
BEING A PORTION OF SECTION 19, TOWNSHIP 3 SOUTH, RANGE 23 EAST,
JACKSONVILLE, DUVAL COUNTY, FLORIDA

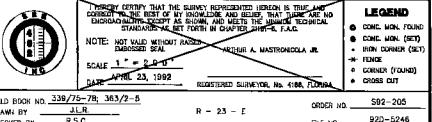


LEGEND

- FOUND CONCRETE MONUMENT
- FOUND IRON PIPE
- SET CONCRETE MONUMENT (L.B. No. 3624)
- SET IRON PIPE (L.B. No. 3624)
- LICENSED BUSINESS
- ELEVATION

REVISED 3-12-04 TO ADD WELL B-11-R
REVISED 6-16-04 TO ADD WELLS B-12-B AND B-13-B
REVISED 6-20-04 TO CHANGE ELEVATION OF WELL B-21
REVISED 3-30-95 TO CHANGE WELL B-32-S TO B-32-RR
REVISED 6-16-04 TO CHANGE ELEVATION OF WELL B-23-RR
REVISED JULY 15, 1992 TO SHOW ELEVATIONS AND REPLACEMENT WELL B-32-S (FOR B-32-S)

FORMERLY SUNSHINE STATE SURVEYORS, INC.
ENGINEERS, SURVEYORS & LAND PLANNERS
3101 ST. JOHNS BLUFF RD. SOUTH, JACKSONVILLE, FLORIDA 32216



PLANS PREPARED UNDER THE
DIRECTION OF:
John Bader, P.E.
JOANITA BADER, GLEN, P.E.
P.E. NO. 27245

Penned: Jun 14, 2013 - C.R.B. & D.L.P. Inc.

PERMIT DOCUMENT

SITE PLAN

England-Thims & Miller, Inc.
BUILDERS • PLANNERS • SURVEYORS • LANDSCAPE ARCHITECTS
14770 OLD ST AUGUSTINE ROAD JACKSONVILLE, FLORIDA 32258
CERTIFICATE OF AUTHORIZATION NUMBER: 2884
PHONE NUMBER: (904) 342-9880 FAX NUMBER: (904) 346-9485

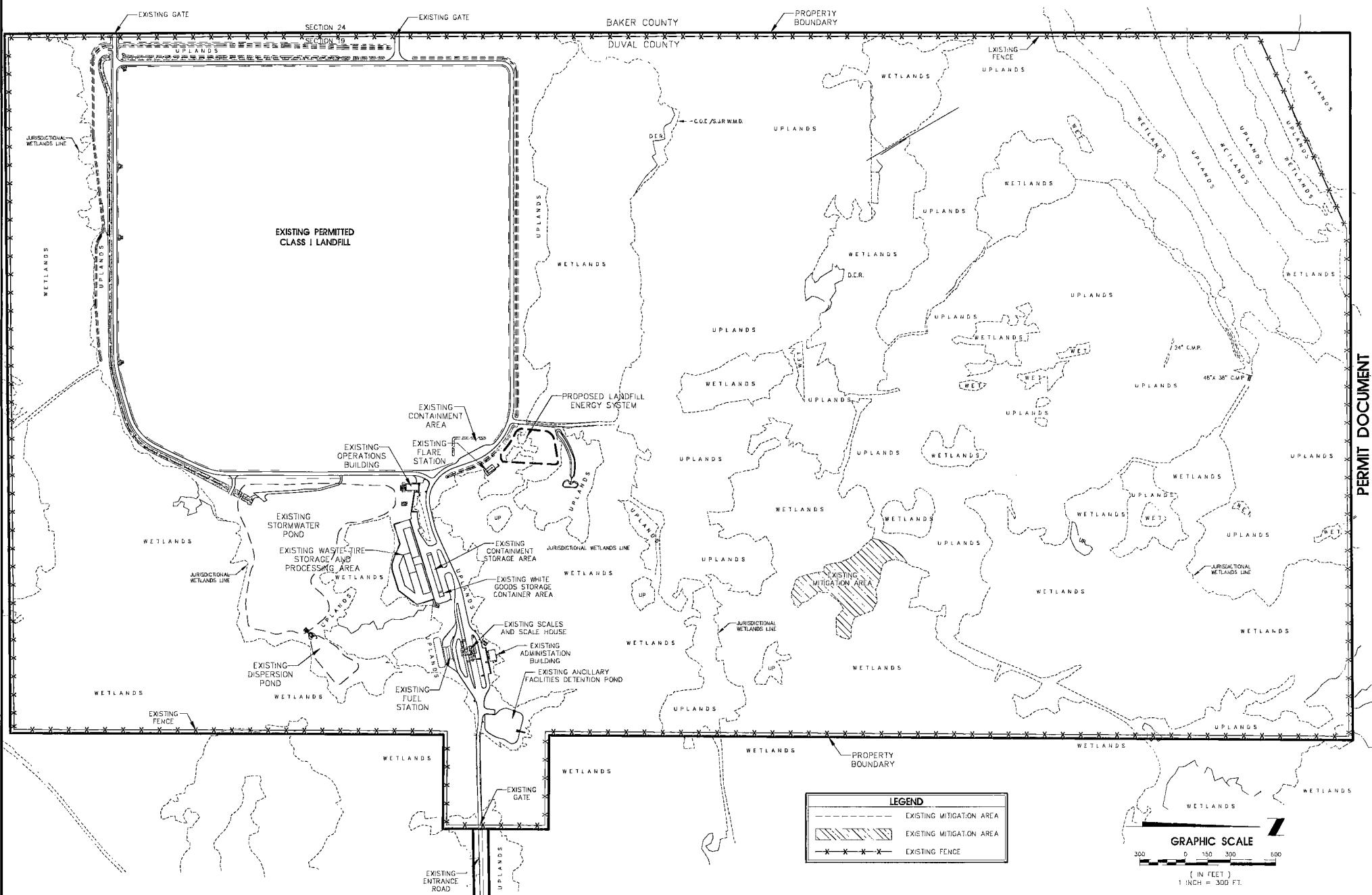
DRAWING NO.

4

300 0 150 300 450

(IN FEET)
1 INCH = 300 FT.

LEGEND		
	—	EXISTING MITIGATION AREA
	■■■■■	EXISTING MITIGATION AREA
	-----	EXISTING FENCE



PERMIT DOCUMENT

England-Thims & Miller, Inc.
ENGINEERS - PLANNERS - SURVEYORS - LANDSCAPE ARCHITECTS
14775 OLD ST. AUGUSTINE ROAD JACKSONVILLE, FLORIDA 32216
CERTIFICATE OF AUTHORIZATION NUMBER 2824
PHONE NUMBER (904) 642-8810 FAX NUMBER (904) 646-9415

DRAWING NO

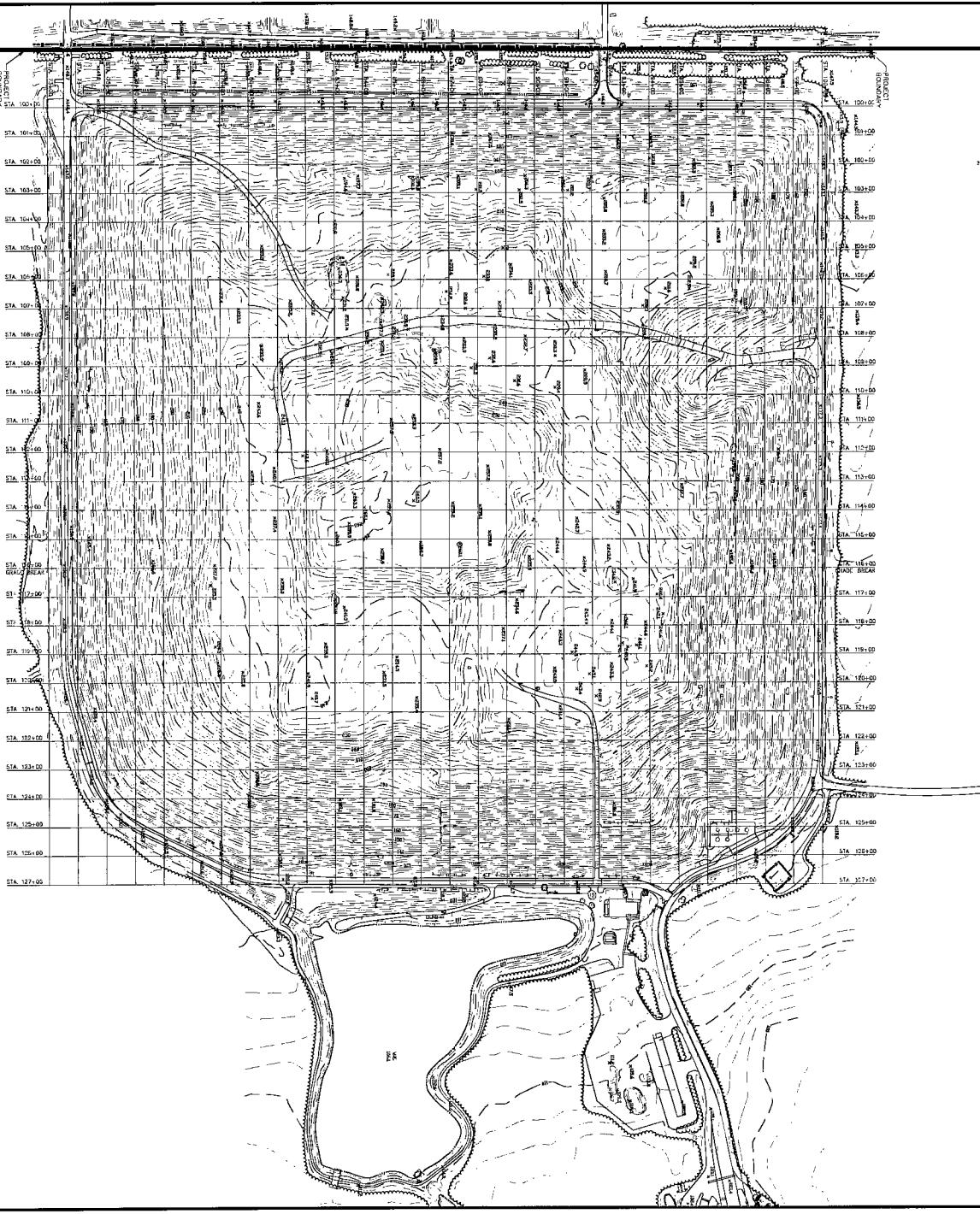
5

G:\\MARCHPL\\VIRGINIA\\W:\\G:\\MANUFACTURING\\Projects\\Vero\\5000\\5000.dwg

PLANS PREPARED UNDER THE
DIRECTION OF:
Johnna C. Crum
JUANITA BAUDER, C.E.M., P.E.
P.E. NO. 43245
Plotter: Job 14, 2000 - 4 Openings - 35' x 100'

REV. NO. E 07-044-01	REVISIONS 1-12-00 GENERAL REVISIONS
PREPARED BY:	J. Crum
THROUGH BY:	J. Crum
DATE:	September 25, 2000
TRAIL RIDGE LANDFILL, INC.	

GRAPHIC SCALE
(IN FEET)
1 INCH = 200 FEET



NOTES:
1. TOPOGRAPHIC INFORMATION SHOWN HEREON TAKEN FROM
AERIAL TOPOGRAPHY PREPARED BY AIR SURVEY CORP., MAP
DATE 2-2-98, STATE OF FLORIDA, PROJECT NO. 7107080116
2. VERTICAL DATUM BASED ON NOVD 1988.

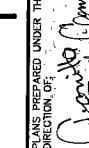
PERMIT DOCUMENT

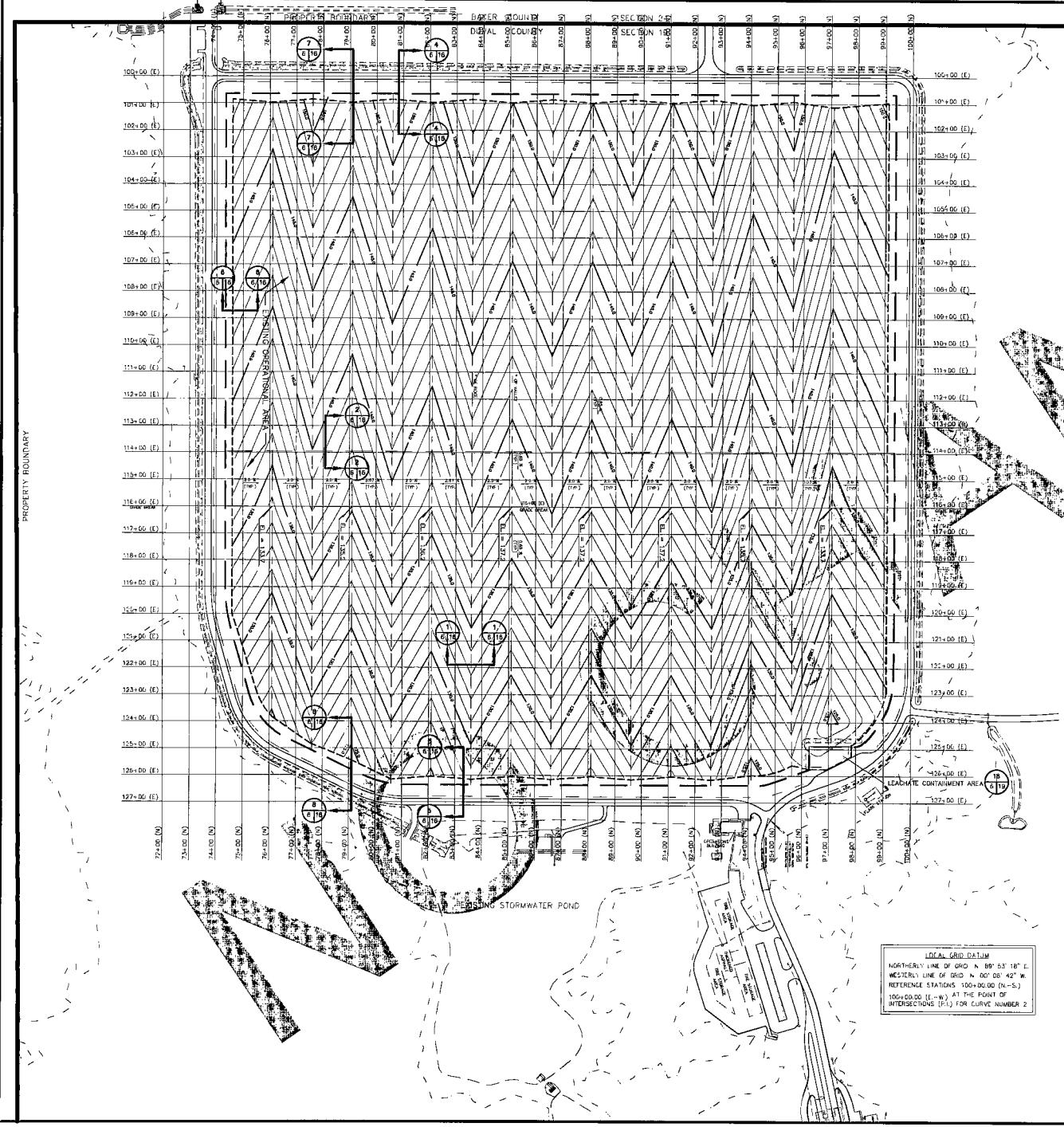
BASE GRADING PLAN

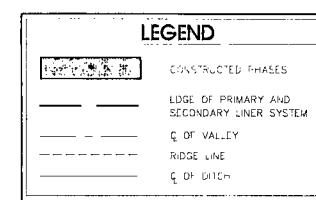
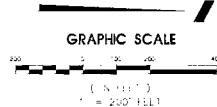
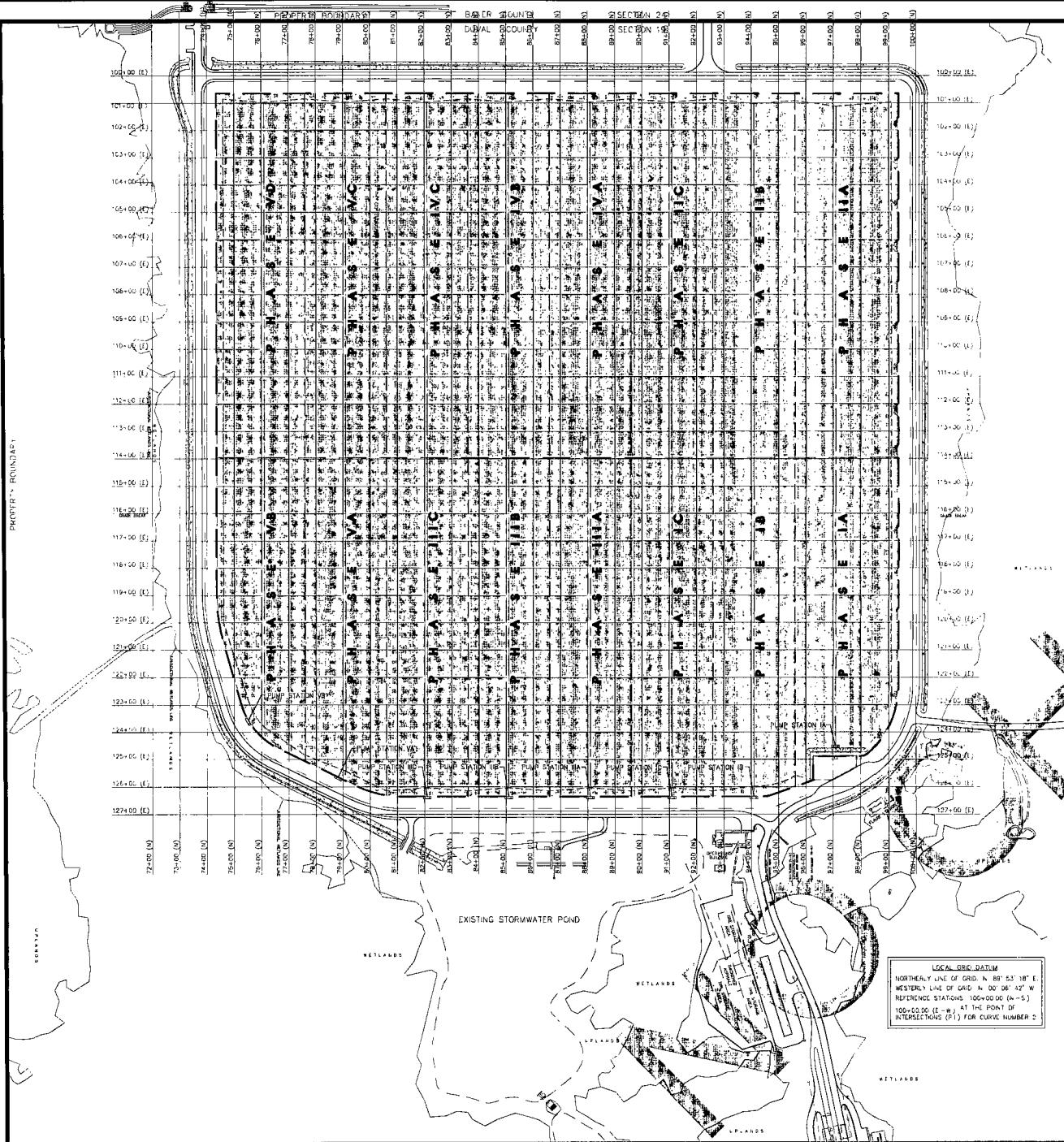
England, Thims & Miller, Inc.

DRAWING NO.

6

TRAIL RIDGE LANDFILL THIRD PERMIT RENEWAL FOR TRAIL RIDGE LANDFILL, INC.																			
PLANS PREPARED UNDER THE DIRECTION OF:  JENNIFER BODEN JUANITA BADER, C.E.M., P.E. P.E. NO. 43245																			
PLANS PREPARED ON: PRINTED: 2015-09-15 10:15 AM FILED: 2015-09-15 10:15 AM REVISIONS: 0 SECTION: 1 SCALE: 1:2000 DATE: 2015-09-15																			
NOTE: VERTICAL DATUM BASED ON NGVD 1988																			
LEGEND <table border="1" style="margin-left: auto; margin-right: auto;"> <tr> <td>—</td> <td>BASE GRADE - 1' CONTOUR</td> </tr> <tr> <td>—</td> <td>BASE GRADE - 5' CONTOUR</td> </tr> <tr> <td>—</td> <td>EDGE OF PRIMARY AND SECONDARY LINER SYSTEM</td> </tr> <tr> <td>—</td> <td>E OF VALLEY</td> </tr> <tr> <td>—</td> <td>E OF RIDGE</td> </tr> <tr> <td>—</td> <td>E OF DITCH</td> </tr> <tr> <td>—</td> <td>SECTION OR DETAIL NUMBER</td> </tr> <tr> <td>—</td> <td>SHEET ON WHICH SECTION OR DETAIL IS DRAWN</td> </tr> <tr> <td>—</td> <td>SHEET ON WHICH SECTION OR DETAIL IS TAKEN</td> </tr> </table>		—	BASE GRADE - 1' CONTOUR	—	BASE GRADE - 5' CONTOUR	—	EDGE OF PRIMARY AND SECONDARY LINER SYSTEM	—	E OF VALLEY	—	E OF RIDGE	—	E OF DITCH	—	SECTION OR DETAIL NUMBER	—	SHEET ON WHICH SECTION OR DETAIL IS DRAWN	—	SHEET ON WHICH SECTION OR DETAIL IS TAKEN
—	BASE GRADE - 1' CONTOUR																		
—	BASE GRADE - 5' CONTOUR																		
—	EDGE OF PRIMARY AND SECONDARY LINER SYSTEM																		
—	E OF VALLEY																		
—	E OF RIDGE																		
—	E OF DITCH																		
—	SECTION OR DETAIL NUMBER																		
—	SHEET ON WHICH SECTION OR DETAIL IS DRAWN																		
—	SHEET ON WHICH SECTION OR DETAIL IS TAKEN																		
NOTE: THIS PLAN HAS NOT BEEN UPDATED SINCE THE SECOND PERMIT RENEWAL. GENERAL REVISIONS ARE LIMITED TO MINOR ADJUSTMENTS TO TEXTURE AND LOCATION AS WELL AS UPDATES TO THE BORDER AND LOGO																			
<p style="text-align: center;">REFERENCE POINT FOR SPOT ELEVATION</p>																			





NOTE:
THIS PLAN HAS NOT BEEN UPDATED SINCE THE SECOND PERMIT RENEWAL. GENERAL REVISIONS ARE LIMITED TO MINOR ADJUSTMENTS TO TEXT SIZE AND LOCATION AS WELL AS UPDATES TO THE BORDER AND LOGO.

PERMIT DOCUMENT

BOTTOM LINER PHASING PLAN TRAIL RIDGE LANDFILL THIRD PERMIT RENEWAL FOR TRAIL RIDGE LANDFILL, INC.

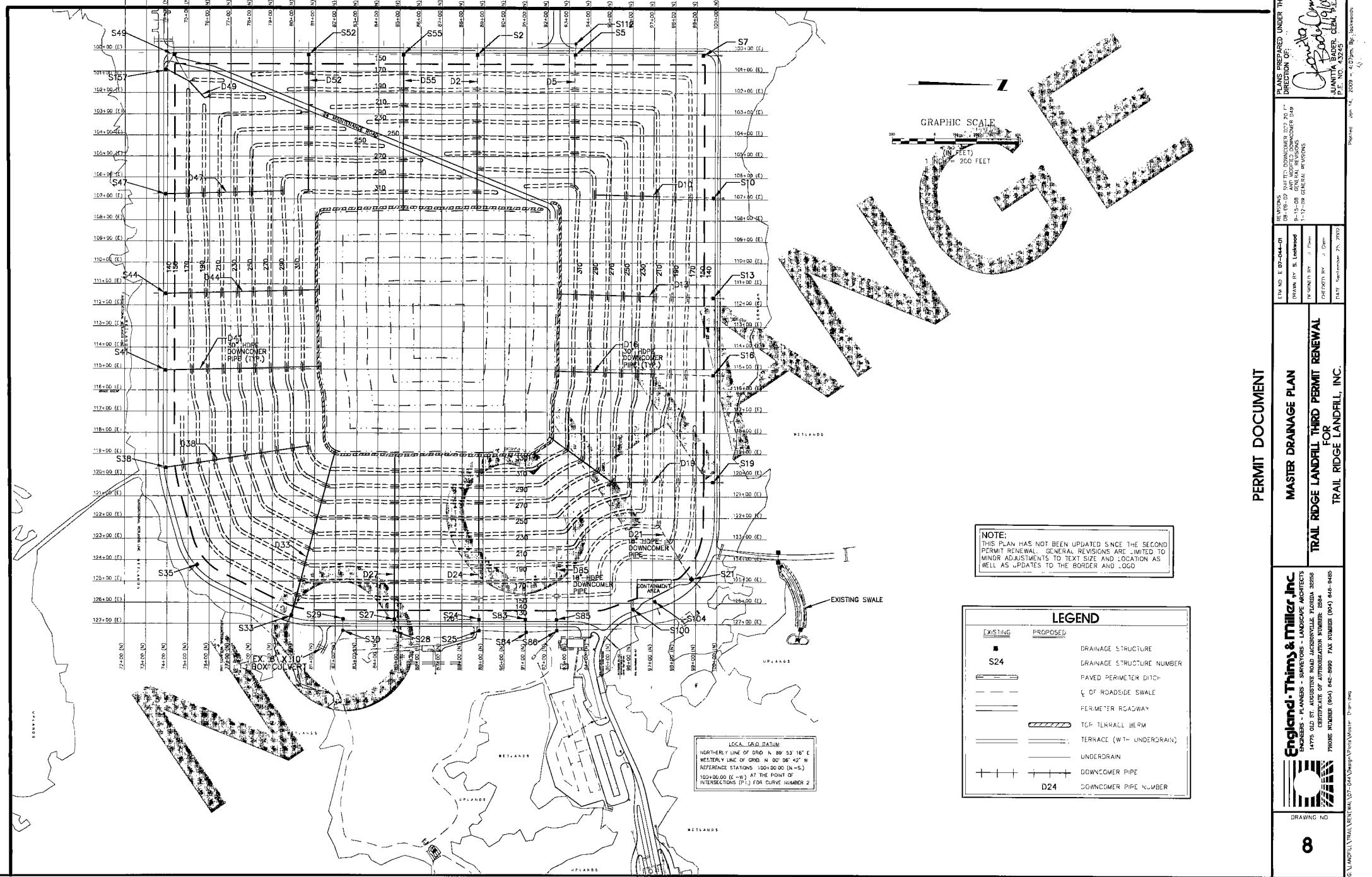
England-Thims & Miller, Inc.
ENGINEERS • PLANNERS • SURVEYORS • LANDSCAPE ARCHITECTS
1475 OLD ST. AUGUSTINE ROAD JACKSONVILLE, FLORIDA 32256
CERTIFICATE OF AUTHORIZATION NUMBER 2004
PHONE NUMBER (904) 642-8880 FAX NUMBER (904) 646-9455

DRAWING NO. 7

© 2004 ENGLAND THIMS & MILLER, INC. All rights reserved.

PLANS PREPARED UNDER THE
DIRECTION OF:
John Bader, C.E.
JUANITA BADER, C.E.
P.E. NO. 37245
2003-07-16, 4:00pm, NY, Rev. 00001

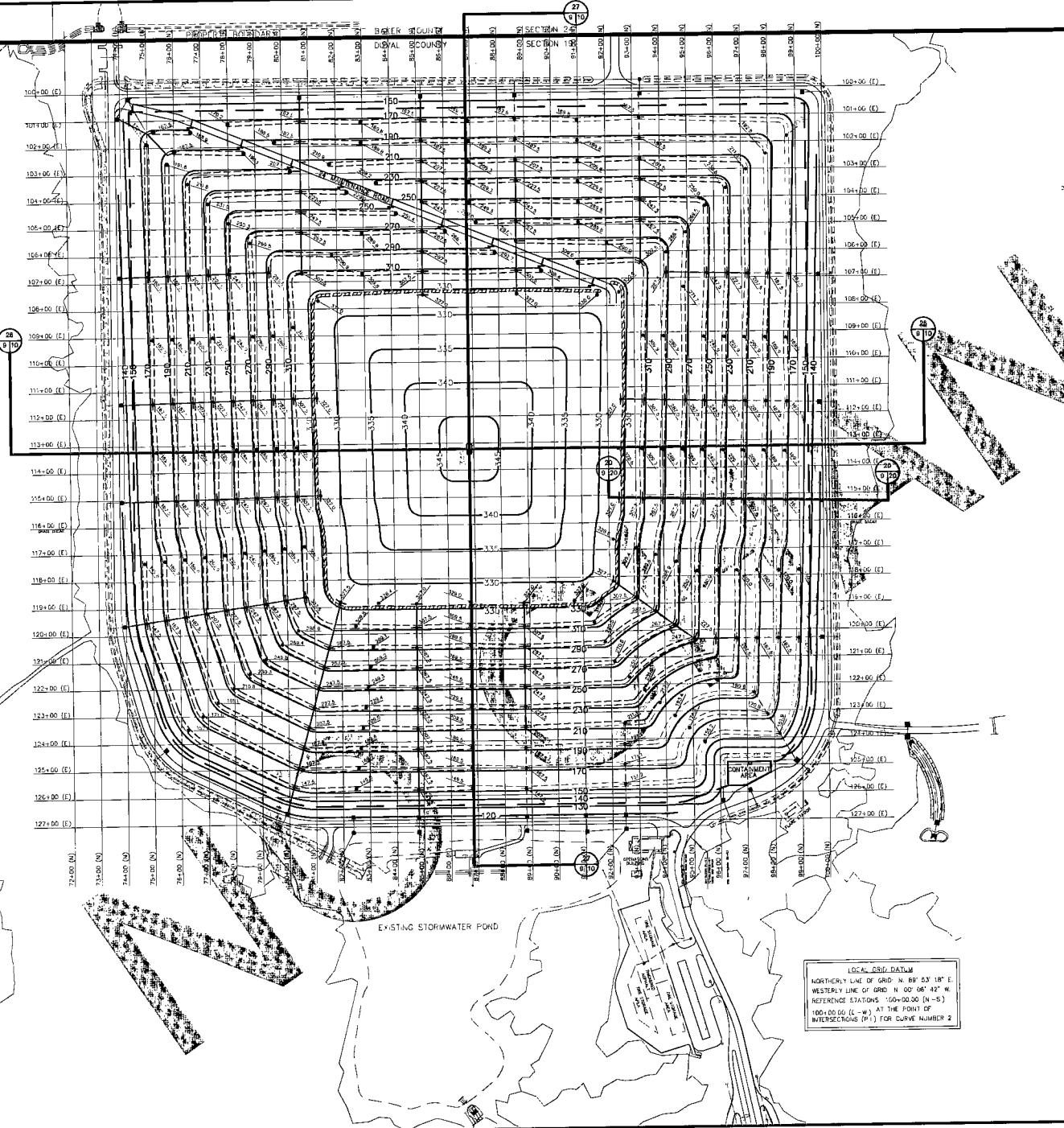
PERMIT DOCUMENT



PERMIT DOCUMENT

TRAIL RIDGE LANDFILL THIRD PERMIT RENEWAL

FOR
TRAIL RIDGE LANDFILL, INC.



NOTE:
VERTICAL DATUM BASED ON NGVD 1929.

NOTE:
THIS PLAN HAS NOT BEEN UPDATED SINCE THE SECOND
PERMIT RENEWAL. GENERAL REVISIONS ARE LIMITED TO
MINOR ADJUSTMENTS TO TEXT SIZE AND LOCATION AS
WELL AS UPDATES TO THE BORDER AND LOGO.

LEGEND

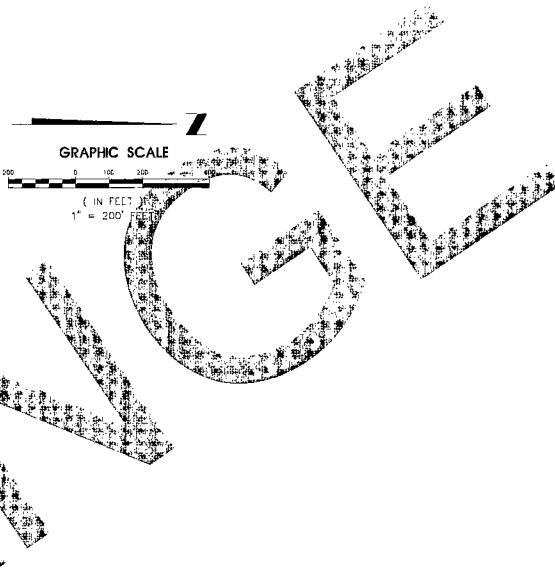
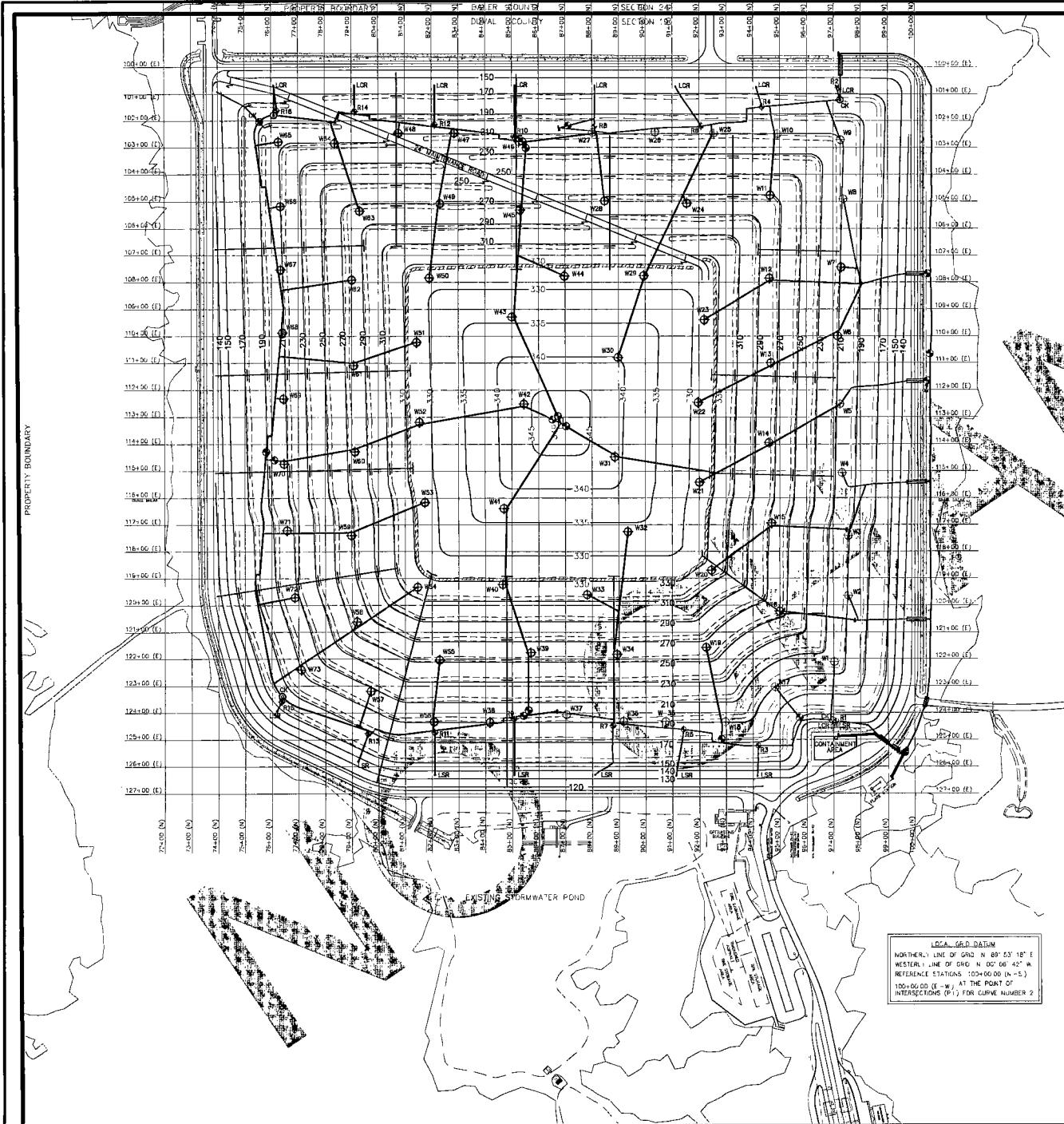
EXISTING	PROPOSED
— 150 —	— 150 —
■	■ PROPOSED FINAL CONTOUR
— — — — —	— — — — — DRAINAGE STRUCTURE
— - - - -	— - - - - PAVED PERIMETER DITCH
— & — — — —	— & — — — — C OF ROADSIDE SWALE
— — — — —	— — — — — PERIMETER ROADWAY
— — — — —	— — — — — TOP TERRACE BERM
— — — — —	— — — — — TERRACE (WITH UNDRAWE)
— — — — —	— — — — — C TERRACE
— — — — —	— — — — — SPOT ELEVATION
— — — — —	— — — — — SECTION OR DETAIL NUMBER
— — — — —	— — — — — SHEET ON WHICH SECTION OR DETAIL IS DRAWN
— — — — —	— — — — — SHEET ON WHICH SECTION OR DETAIL IS TAKEN

PLANS PREPARED UNDER THE DIRECTION OF: <i>John H. C. Cole</i> JULIANNA BAKER, CLERK P.E. NO. 43245... Printed Apr 14, 2008 at 4:07pm By: <i>John H. C. Cole</i>	
1-10 NO. E-D7-004-01 REVISIONS: REVISED TRAIL RIDGE LANDFILL PLANNING BY: S. Lebedow 1-10-08 DATE OF REVISION: 1-17-09 GENERAL REVISIONS	1-10 NO. E-D7-004-01 REVISIONS: REVISED TRAIL RIDGE LANDFILL PLANNING BY: S. Lebedow 1-10-08 DATE OF REVISION: 1-17-09 GENERAL REVISIONS
TRAIL RIDGE LANDFILL 3RD PERMIT RENEWAL FOR TRAIL RIDGE LANDFILL, INC.	TRAIL RIDGE LANDFILL 3RD PERMIT RENEWAL FOR TRAIL RIDGE LANDFILL, INC.
Englund-Thims & Miller, Inc. ENGINEERS - PLANNERS - LANDSCAPE ARCHITECTS 14775 OLD ST AUGUSTINE ROAD JACKSONVILLE, FLORIDA 32226 CERTIFICATE OF AUTORIZATION NUMBER 0284 PHONE NUMBER (904) 642-8800 FAX NUMBER (904) 846-9486	Englund-Thims & Miller, Inc. ENGINEERS - PLANNERS - LANDSCAPE ARCHITECTS 14775 OLD ST AUGUSTINE ROAD JACKSONVILLE, FLORIDA 32226 CERTIFICATE OF AUTORIZATION NUMBER 0284 PHONE NUMBER (904) 642-8800 FAX NUMBER (904) 846-9486
DRAWING NO 9	DRAWING NO 9

PERMIT DOCUMENT

PLANS PREPARED UNDER THE
 DIRECTION OF:
 JUANITA BAUDER, CIVIL, P.E.
 1/9/99
 JUANITA BAUDER, CIVIL, P.E.
 P.E. NO. 43245
 DRAWN BY: J. C. B.
 CHECKED BY: J. C. B.
 APPROVED BY: J. C. B.
 DATE: September 25, 2002

GAS COLLECTION SYSTEM PLAN		TRAIL RIDGE LANDFILL THIRD PERMIT RENEWAL FOR TRAIL RIDGE LANDFILL, INC.
England-Thims & Miller, Inc. ENGINEERS - PLANNERS - SURVEYORS - LANDSCAPE ARCHITECTS 14776 OLD ST. AUGUSTINE ROAD JACKSONVILLE, FLORIDA 32258 CERTIFICATE OF AUTHORIZATION NUMBER: 2504 PHONE NUMBER (904) 445-8000 FAX NUMBER (904) 445-9480 DRAWING NO. 9A	PLANS PREPARED UNDER THE DIRECTION OF: JUANITA BAUDER, CIVIL, P.E. 1/9/99 JUANITA BAUDER, CIVIL, P.E. P.E. NO. 43245 DRAWN BY: J. C. B. CHECKED BY: J. C. B. APPROVED BY: J. C. B. DATE: September 25, 2002	REVISIONS 1-12 OF GENERAL REVISIONS TRAIL RIDGE LANDFILL DRAWN BY: J. C. B. CHECKED BY: J. C. B. APPROVED BY: J. C. B. DATE: September 25, 2002

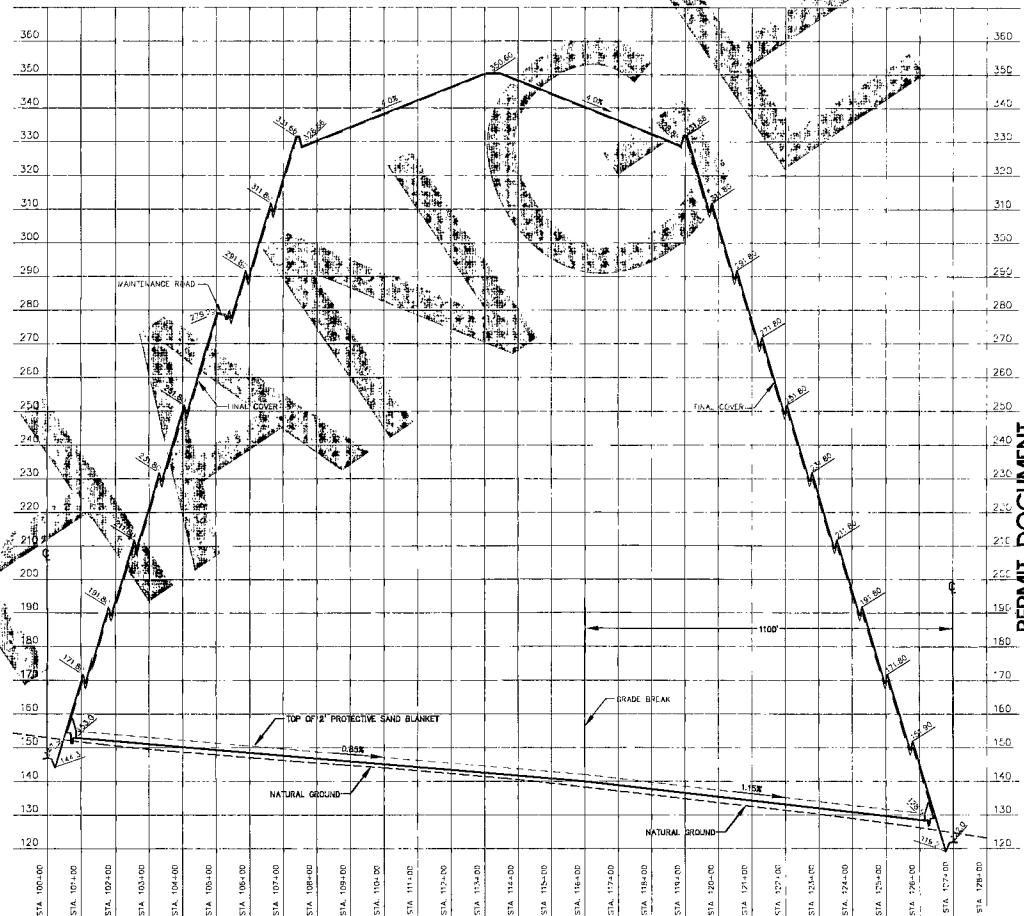
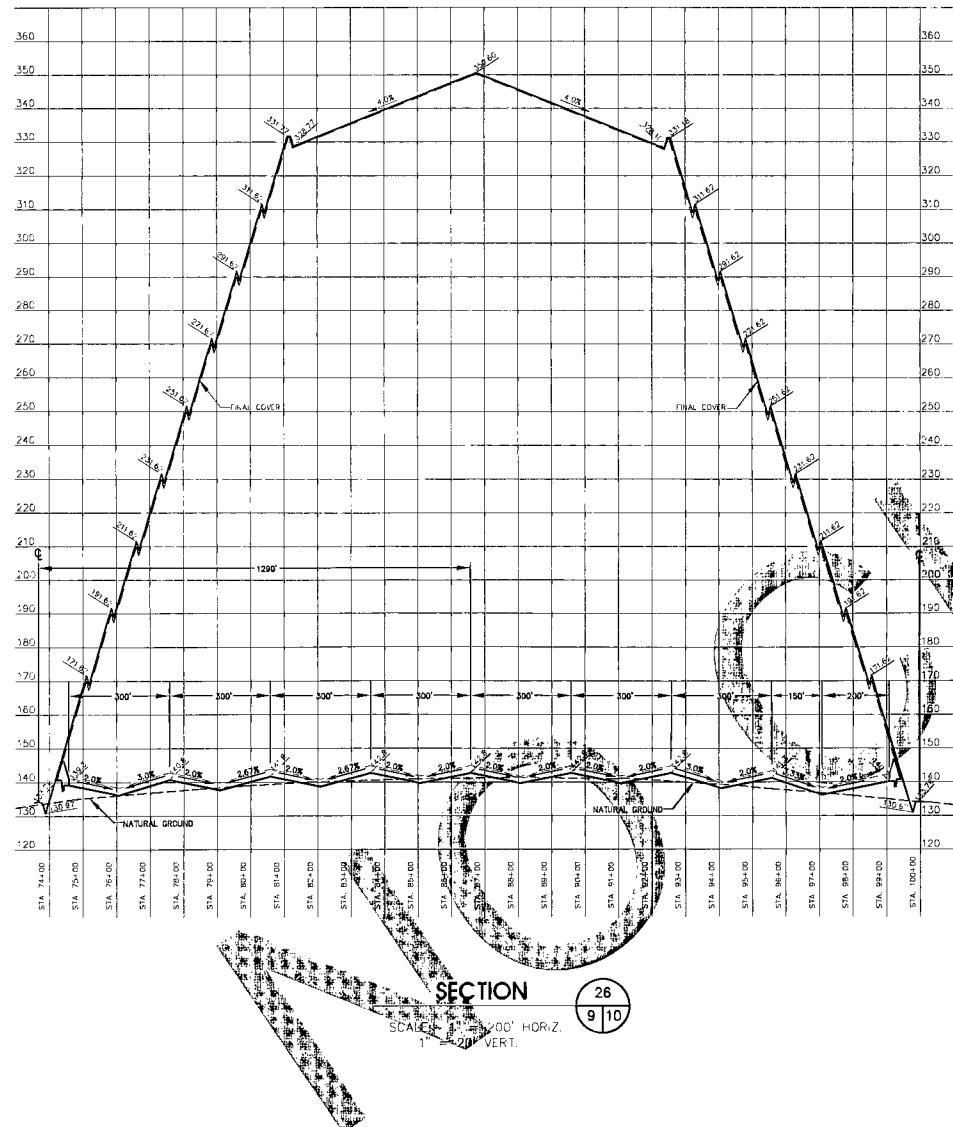


NOTE:
VERTICAL DATUM BASED ON NGVD '89.

NOTE:
THIS PLAN HAS NOT BEEN UPDATED SINCE THE SECOND PERMIT RENEWAL. GENERAL REVISIONS ARE LIMITED TO MINOR ADJUSTMENTS TO TEXT SIZE AND LOCATION AS WELL AS UPDATES TO THE BORDER AND LOGO.

NOTES:
1. LOCATION OF PROPOSED GAS COLLECTION WELLS AND GAS HEADERS WERE BASED UPON GAS MANAGEMENT PLAN PREPARED BY HUST ENVIRONMENT & INFRASTRUCTURE DATED OCT 3, 1997
2. LOCATION OF EXISTING GAS COLLECTION WELLS, GAS HEADERS AND LANDFILL FEATURES WERE BASED UPON RECORD CONSTRUCTION DRAWINGS PROVIDED BY WALTER ENERGY TECHNOLOGY, INC. DATED FEB. 19, 1999 & HAROLD G. EVERETT, JR. DATED JUNE 18, 2002.

LEGEND	
EXISTING	PROPOSED
— 150 —	— 150 — PROPOSED FINAL CONTOUR
— 150 —	PAVED PERIMETER DITCH
— 150 —	PERIMETER ROADWAY
— 150 —	PERIMETER ROADWAY
— 150 —	TOP TERRACE BERM
— 150 —	TERRACE
— 150 —	GAS HEADER
⊕ W2B	⊕ W2B PROPOSED GAS COLLECTION WELL
⊕ R2	⊕ R2 REMOTE WELLHEAD LOCATION
⊕ CK	⊕ CK UNDERGROUND CONTROL VALVE
⊕ CK	⊕ CK CONDENSATE KNOCKOUT



NOTE:
VERTICAL DATUM BASED ON NGVD 1929.

NOTE:
THIS PLAN HAS NOT BEEN UPDATED SINCE THE SECOND
PERMIT RENEWAL. GENERAL REVISIONS ARE RELATED TO
MINOR ADJUSTMENTS TO TEXT SIZE AND LOCATION AS
WELL AS UPDATES TO THE BORDER AND LOGO.

England, Thims & Miller, Inc.
ENGINEERS - PLANNERS - SURVEYORS - LANDSCAPE ARCHITECTS
1477 OLD ST. AUGUSTINE ROAD JACKSONVILLE, FLORIDA 32256
CERTIFICATE OF AUTOMATIC NUMBER 0084
PHONE NUMBER (904) 442-8886 TAX NUMBER (904) 442-9415
DRAWING NO. 10

CROSS SECTIONS

TRAIL RIDGE LANDFILL THIRD PERMIT RENEWAL

FOR

TRAIL RIDGE LANDFILL, INC.

PLANS PREPARED UNDER THE
DIRECTION OF:
George Boden
JUANITA BODEN, CLEM, P.E.
P.E. NO. 32445
Permit: Jan 14, 2019 - 4:07pm By: boden

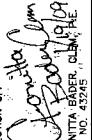
EDITION NO. E-07-044-01	REVISIONS: 9-12-18
DRAWN IN S. (checkmark)	GENERAL REVISIONS 1-12-18
THROUGH DATE: 1/14/2019	GENERAL
FILE DATE: 1/14/2019	4:07pm
DATE SUBMITTED: 1/14/2019	1/14/2019

PERMIT DOCUMENT

England, Thims & Miller, Inc.
 ENGINEERS - SURVEYORS - LANDSCAPE ARCHITECTS
 14770 OLD ST AUGUSTINE ROAD JACKSONVILLE, FLORIDA 32256
 CERTIFICATE OF AUTHORIZATION NUMBER: 28184
 PHONE NUMBER: (904) 646-3880 FAX NUMBER: (904) 646-9405

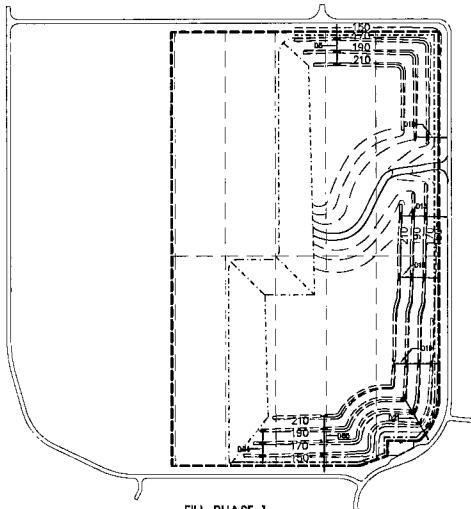
DRAWING NO.

11

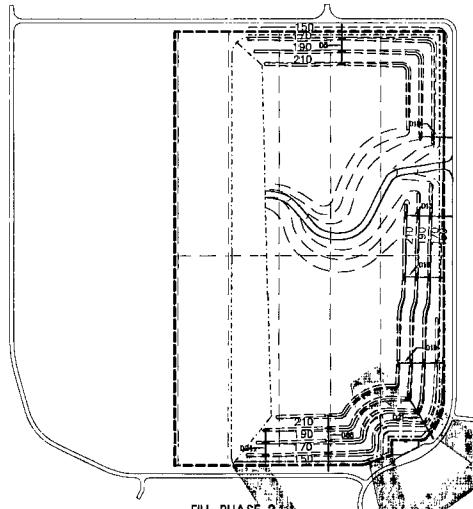
PLANS PREPARED UNDER THE
 DIRECTION OF:

 JUANITA BAKER, C.E., P.E.
 P.E. NO. 43245
 Printed Apr '14, 2009 - 20 Items by acspac

F.I.V. NO. E-07-004-01 REVISIONS
 F-20 OF REVISED EDITIONS 3 & 4 AND
 APPLIED TO ACTIVITIES 1, 2, 3, 4, 5 &
 6
 DRAWN BY S. Ledwith
 12-10-09 APPROVED 1-1-11 J. Chene
 INSTRUMENT BY J. Chene
 DIRECTED BY J. Chene
 DATE SUBMITTED 7-1-10

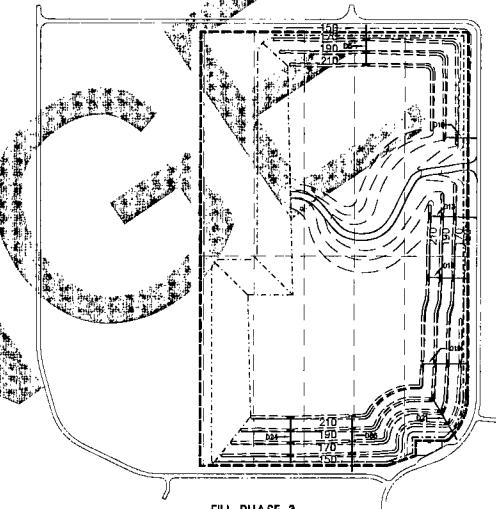
FILL PHASING PLAN
TRAIL RIDGE LANDFILL THIRD PERMIT RENEWAL
FOR
TRAIL RIDGE LANDFILL, INC.



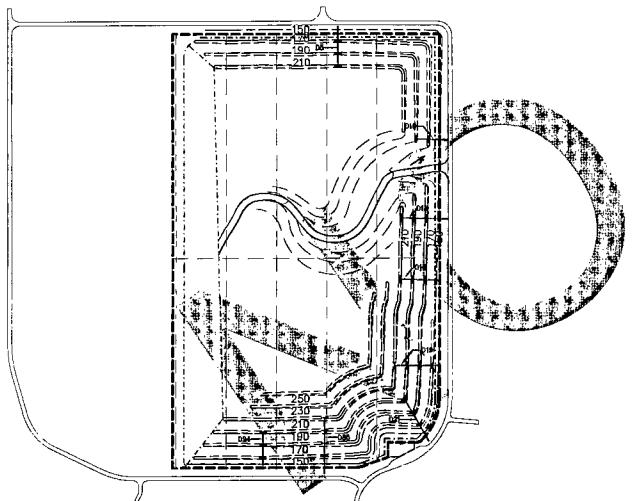
FILL PHASE 1
 COMPLETE



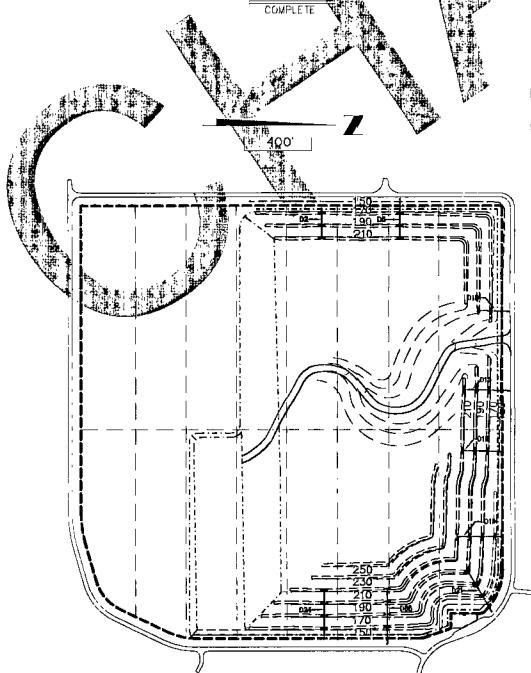
FILL PHASE 2
 COMPLETE



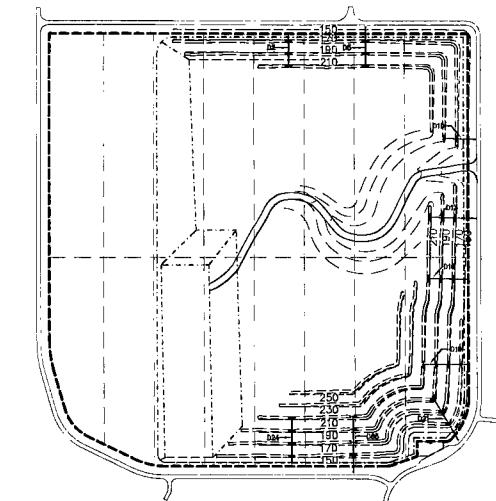
FILL PHASE 3
 COMPLETE



FILL PHASE 4
 COMPLETE



FILL PHASE 5
 COMPLETE



FILL PHASE 6
 COMPLETE

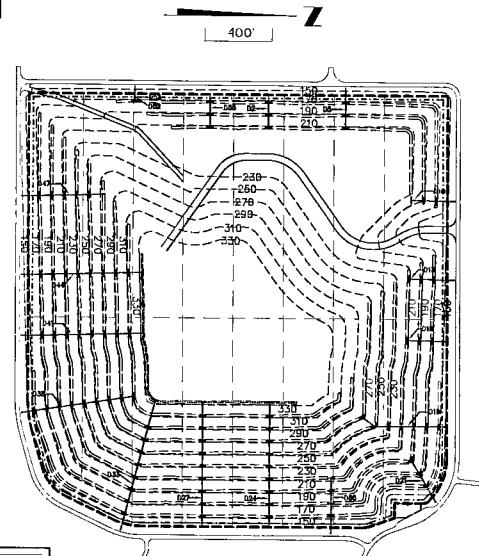
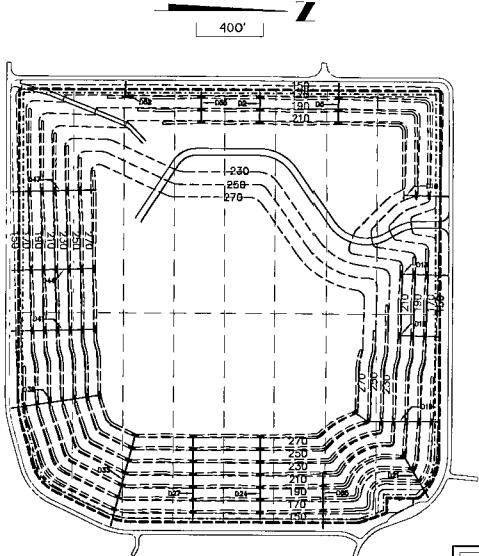
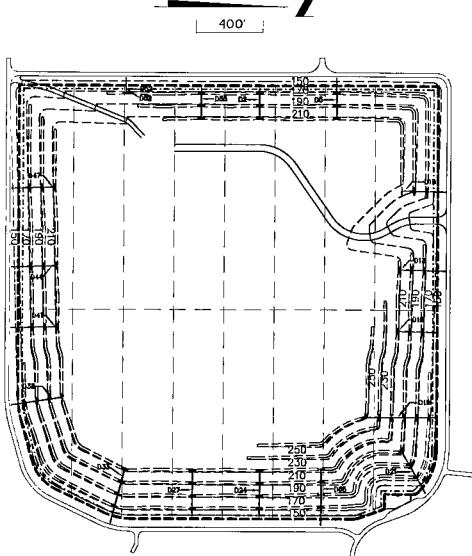
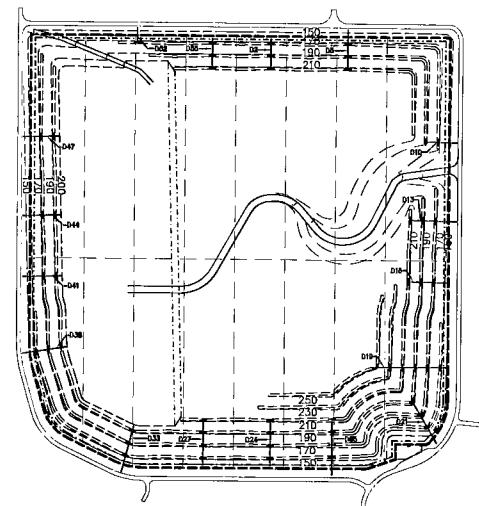
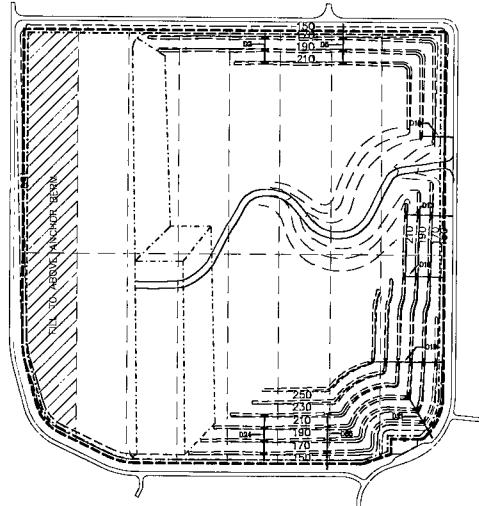
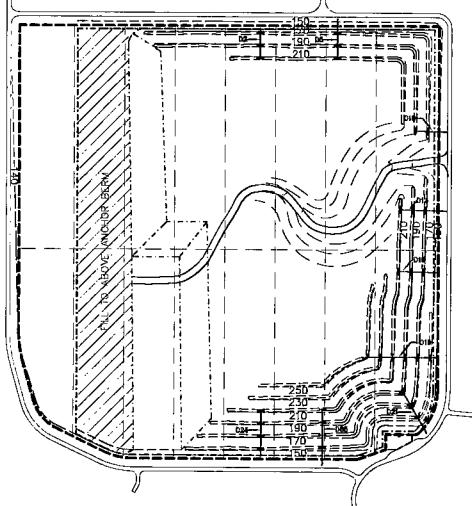
NOTE:
 VERTICAL DATUM BASED ON NGVD 1929

LEGEND

- 150 FINAL CONTOUR
- LIMITS OF LINER
- LINE OF BASE LINE
- LIMITS OF FILL
- ACCESS ROAD
- ROADWAY
- STRUCTURE
- DOWNCOMER PIPE

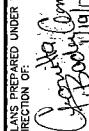
NOTE:
 FILL PHASING MAY BE CHANGED
 DUE TO OPERATIONAL NEEDS.

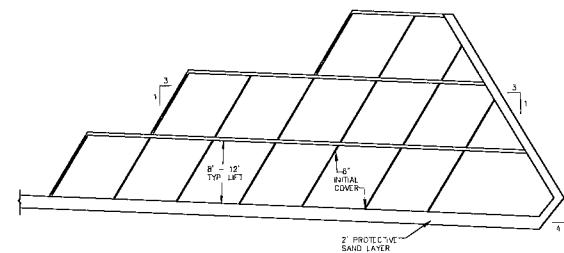
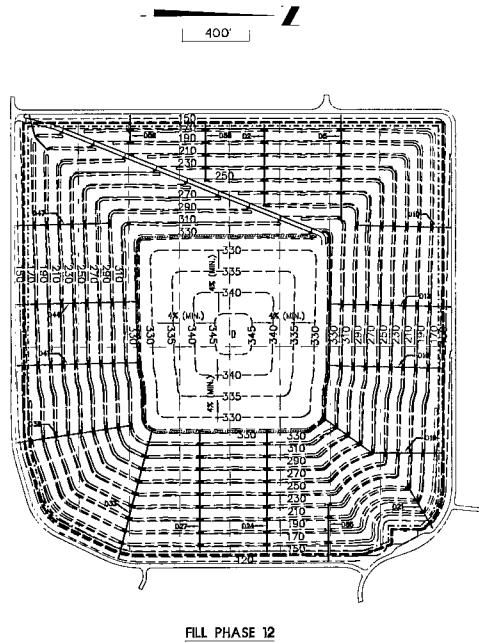
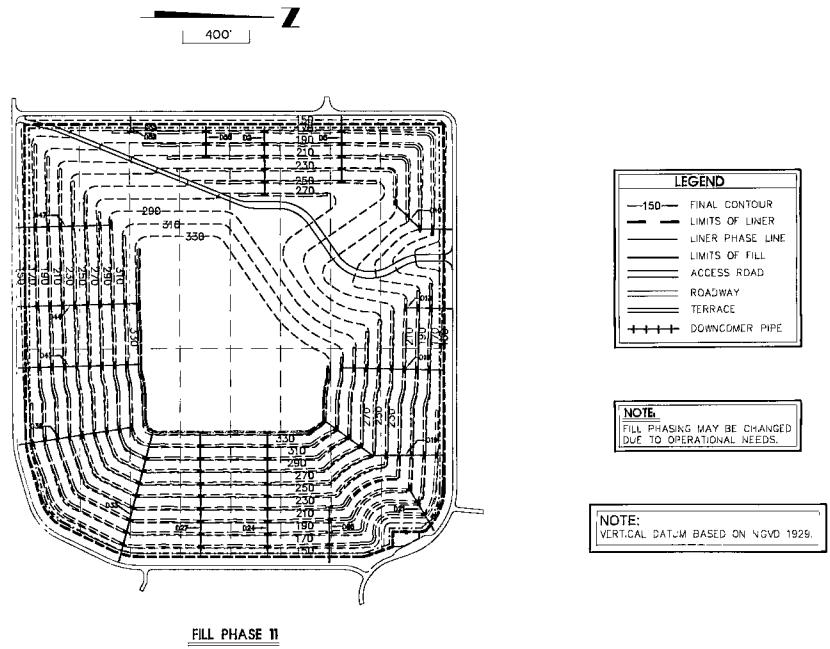
PERMIT DOCUMENT



ENGLAND, THIMS & MILLER, INC.	
ENGINEERS - PLANNERS - SURVEYORS - LANDSCAPE ARCHITECTS	
14775 OLD ST. AUGUSTINE ROAD ALEXANDRIA, FLORIDA 33565	
CERTIFICATE OF AUTHORIZATION NUMBER: 2834	
PHONE NUMBER (941) 442-3990 FAX NUMBER (941) 846-5445	
DRAWING NO. 12	
PLANS PREPARED UNDER THE PERMIT NUMBER E-07-044-01 FOR TRAIL RIDGE LANDFILL THIRD PERMIT RENEWAL BY J. THIMS FOR ENGLAND, THIMS & MILLER, INC.	
DATE: APR 14, 2009 BY J. THIMS, P.E.	

PERMIT DOCUMENT

 England-Thims & Miller, Inc. <small>PLANNERS - SURVEYORS - LANDSCAPE ARCHITECTS</small> 14775 OLD ST. AUGUSTINE ROAD JACKSONVILLE, FLORIDA 32256 <small>CREATED BY AUTODESK ACAD 2004 PHONE NUMBER (904) 844-8890 FAX NUMBER (904) 844-9455</small>		<p>PLANS PREPARED UNDER THE DIRECTION OF:  JUNITA BADER-CLEM, P.E. P.E. NO. 43245 Dated: Jan 14, 2009 - 4:07pm By: [Signature]</p>																												
<p>FILL PHASING PLAN</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 10px; padding: 2px;">FNU N/C E 07-044-01</td> <td style="width: 10px; padding: 2px;">REVISIONS:</td> <td style="width: 10px; padding: 2px;">11-15-10</td> <td style="width: 10px; padding: 2px;">COMPLETED TIL PHASE 7 & 8</td> <td style="width: 10px; padding: 2px;">10-10-09</td> <td style="width: 10px; padding: 2px;">TO REVISION</td> </tr> <tr> <td style="padding: 2px;">TRAIL RIDGE S. Underwood</td> <td style="padding: 2px;">11-15-10</td> <td style="padding: 2px;">WESTERN TIL PHASE 5, 6, 7 & 8</td> <td style="padding: 2px;">10-10-09</td> <td style="padding: 2px;">COMPLETED TIL PHASE 7 & 8</td> <td style="padding: 2px;">10-10-09</td> </tr> <tr> <td style="padding: 2px;">INVESTMENT BY: J. Clem</td> <td style="padding: 2px;">8-27-09</td> <td style="padding: 2px;">NORTH TIL PHASE 5, 6, 7 & 8</td> <td style="padding: 2px;">8-27-09</td> <td style="padding: 2px;">NORTH TIL PHASE 5, 6, 7 & 8</td> <td style="padding: 2px;">8-27-09</td> </tr> <tr> <td style="padding: 2px;">FNU N/C Y/N 17-000</td> <td style="padding: 2px;">11-15-10</td> <td style="padding: 2px;">EASTERN TIL PHASE 5, 6, 7 & 8</td> <td style="padding: 2px;">11-15-10</td> <td style="padding: 2px;">EASTERN TIL PHASE 5, 6, 7 & 8</td> <td style="padding: 2px;">11-15-10</td> </tr> <tr> <td style="padding: 2px;">DATE Acquired: 7/27/2007</td> <td style="padding: 2px;">11-15-10</td> <td style="padding: 2px;">REVISIONS:</td> <td style="padding: 2px;">11-15-10</td> <td style="padding: 2px;">REVISIONS:</td> <td style="padding: 2px;">11-15-10</td> </tr> </table> <p>TRAIL RIDGE LANDFILL THIRD PERMIT RENEWAL FOR TRAIL RIDGE LANDFILL, INC.</p>	FNU N/C E 07-044-01		REVISIONS:	11-15-10	COMPLETED TIL PHASE 7 & 8	10-10-09	TO REVISION	TRAIL RIDGE S. Underwood	11-15-10	WESTERN TIL PHASE 5, 6, 7 & 8	10-10-09	COMPLETED TIL PHASE 7 & 8	10-10-09	INVESTMENT BY: J. Clem	8-27-09	NORTH TIL PHASE 5, 6, 7 & 8	8-27-09	NORTH TIL PHASE 5, 6, 7 & 8	8-27-09	FNU N/C Y/N 17-000	11-15-10	EASTERN TIL PHASE 5, 6, 7 & 8	11-15-10	EASTERN TIL PHASE 5, 6, 7 & 8	11-15-10	DATE Acquired: 7/27/2007	11-15-10	REVISIONS:	11-15-10	REVISIONS:
FNU N/C E 07-044-01	REVISIONS:	11-15-10	COMPLETED TIL PHASE 7 & 8	10-10-09	TO REVISION																									
TRAIL RIDGE S. Underwood	11-15-10	WESTERN TIL PHASE 5, 6, 7 & 8	10-10-09	COMPLETED TIL PHASE 7 & 8	10-10-09																									
INVESTMENT BY: J. Clem	8-27-09	NORTH TIL PHASE 5, 6, 7 & 8	8-27-09	NORTH TIL PHASE 5, 6, 7 & 8	8-27-09																									
FNU N/C Y/N 17-000	11-15-10	EASTERN TIL PHASE 5, 6, 7 & 8	11-15-10	EASTERN TIL PHASE 5, 6, 7 & 8	11-15-10																									
DATE Acquired: 7/27/2007	11-15-10	REVISIONS:	11-15-10	REVISIONS:	11-15-10																									



PERMIT DOCUMENT

England, Thims & Miller, Inc.
 ENGINEERS - PLANNERS - SURVEYORS - LANDSCAPE ARCHITECTS
 14770 OLD ST. ATHLETIC ROAD JACKSONVILLE, FLORIDA 32256
 CREDITORS OF AUTORIZATION NUMBER: (904) 846-9880
 PHONE NUMBER: (904) 846-9880 FAX NUMBER: (904) 846-9465

DRAWING NO.

14

PLANS PREPARED UNDER THE
DIRECTION OF:
John B. Baile
JUANITA A. ADAMS, GLEN, P.E.
P.E. NO. 43215
Plotted Apr 14, 2009 - 4:07pm By: sekerec

PROJECTIONS USED: GAS WELLS AND VERT.
12-10-02
1-12-09
GENERAL ELEVATIONS

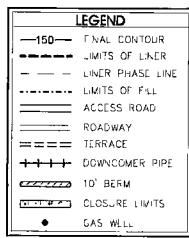
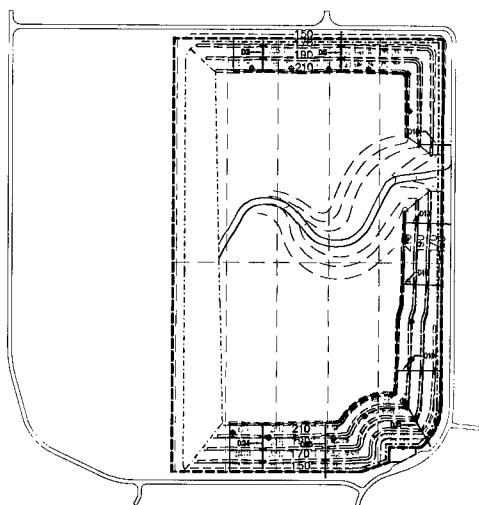
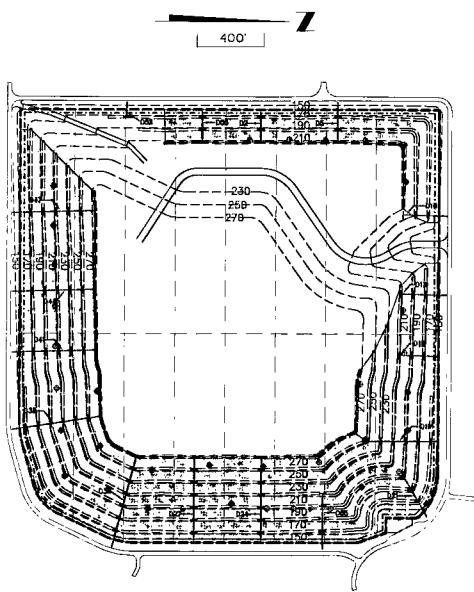
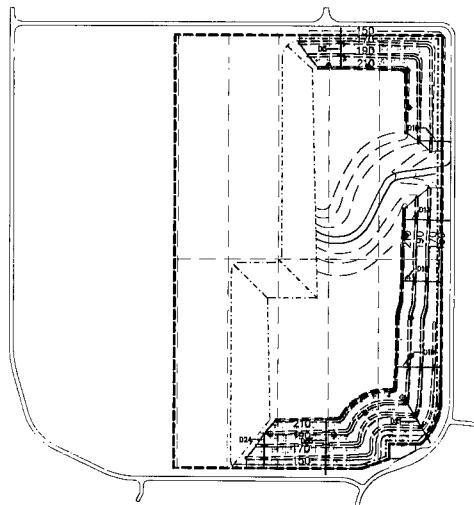
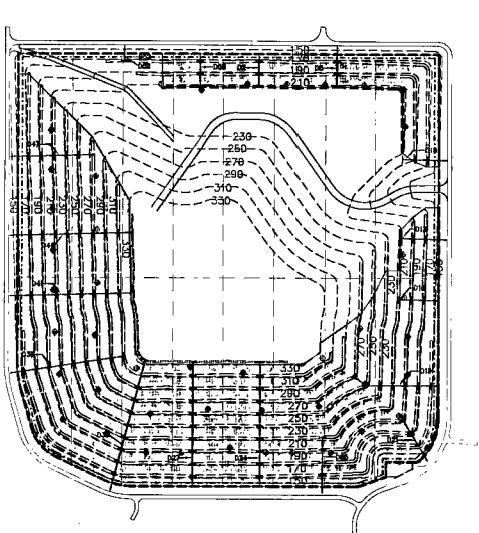
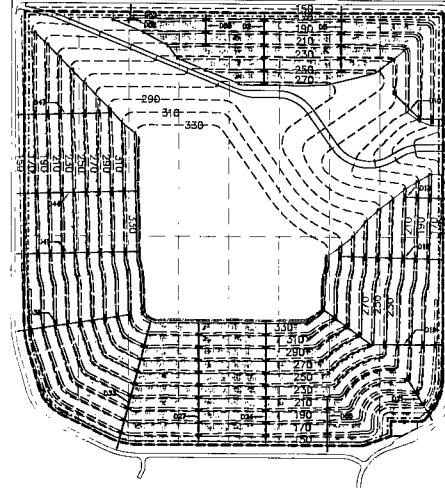
ISLANTIN REV
CHART REV
CIVIC REV
NATL SURVEYORS 75-2073

P.L. NO. 43215

Printed Apr 14, 2009 - 4:07pm By: sekerec

CLOSURE PHASING PLAN

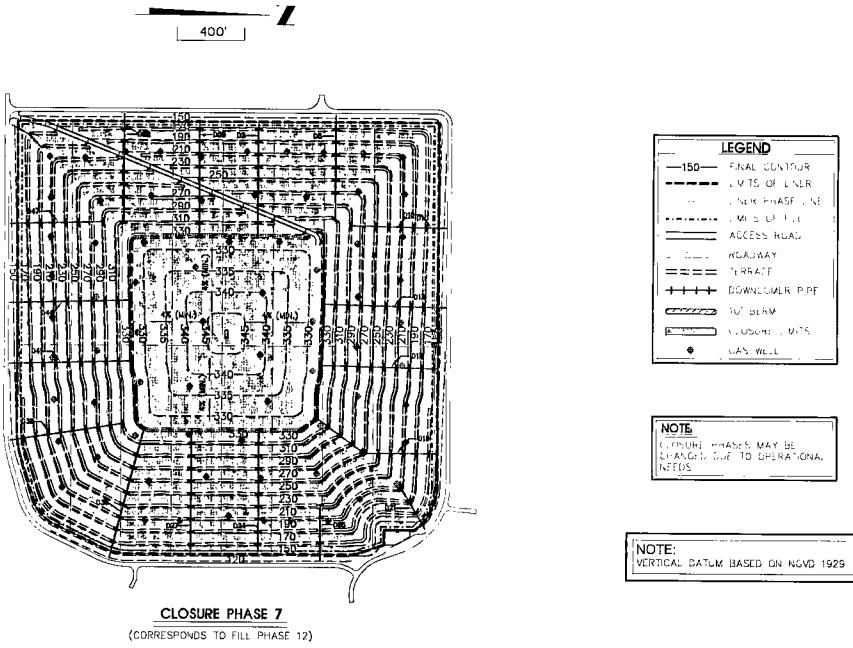
CLOSURE PHASE 1 (CLOSURE PHASE 1 INCLUDES FILL PHASE 1) CLOSURE PHASE 1 INCLUDES EXISTING CLOSURE. NOTE: CLOSURE PHASE 1 IS COMPLETE	CLOSURE PHASE 2 (CORRESPONDS TO FILL PHASES 5, EA, GB, 7 & B.) NOTE: CLOSURE PHASE 2 IS COMPLETE	CLOSURE PHASE 3 (CORRESPONDS TO FILL PHASES 5, EA, GB, 7 & B.) NOTE: VERTICAL DATUM BASED ON NGVD 1929
---	--	--



NOTE:
CLOSURE PHASES MAY BE
CHANGED DUE TO OPERATIONAL
NEEDS.

NOTE:
VERTICAL DATUM BASED ON NGVD 1929

PERMIT DOCUMENT



England-Thims & Miller, Inc.
ENGINEERS - PLANNERS - SURVEYORS - LANDSCAPE ARCHITECTS
1470 OLD ST. AUGUSTINE ROAD JACKSONVILLE, FLORIDA 32256
CERTIFICATE OF AUTHORIZATION NUMBER: 2504
PHONE NUMBER (904) 446-8890 FAX NUMBER (904) 446-9440

DRAWING NO.

15

PLANS PREPARED UNDER THE
DIRECTION OF:
Jeanne C. Body, C.E., P.E.
JUANITA BADER - C.I.E., P.E.
P.E. NO. 43245
Dated: Apr 14, 2008 - 4:05pm, By: *Body, Jeanne C.*

Digitized: Jun 14, 2008 - 4:05pm, By: *Body, Jeanne C.*

PLANS PREPARED UNDER THE
DIRECTION OF:
JANETTA BAER, CLM, P.E.
PE. NO. 4295
Date: Jan 14, 2009 - 4:07pm By: Rosswood

Draft No. 1476 02/28/2009

PLANS PREPARED UNDER THE
DIRECTION OF:
JANETTA BAER, CLM, P.E.
PE. NO. 4295
Date: Jan 14, 2009 - 4:07pm By: Rosswood

Draft No. 1476 02/28/2009

England-Thims & Miller, Inc.
ENGINEERS - PLANNERS - SURVEYORS - LANDSCAPE ARCHITECTS
1476 OLD ST. ALEXANDRIA ROAD JACKSONVILLE, FLORIDA 32256
CERTIFICATE OF AUTHORIZATION NUMBER: 288A
PHONE NUMBER: (904) 642-3890 FAX NUMBER: (904) 846-9465

DRAWING NO.

16

PERMIT DOCUMENT

ANCHOR TRENCH AND LINER DETAILS

TRAIL RIDGE LANDFILL THIRD PERMIT RENEWAL

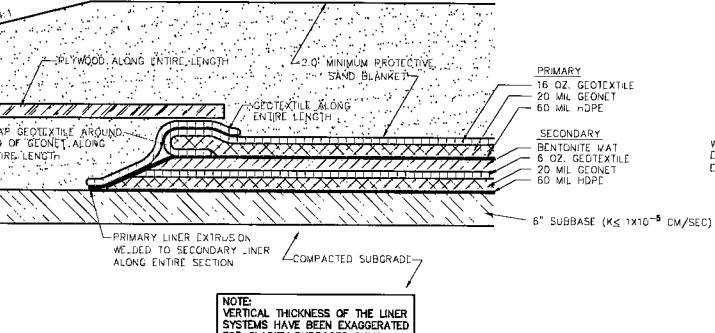
TRAIL RIDGE LANDFILL, INC.

PLANS PREPARED UNDER THE
DIRECTION OF:
JANETTA BAER, CLM, P.E.
PE. NO. 4295
Date: Jan 14, 2009 - 4:07pm By: Rosswood

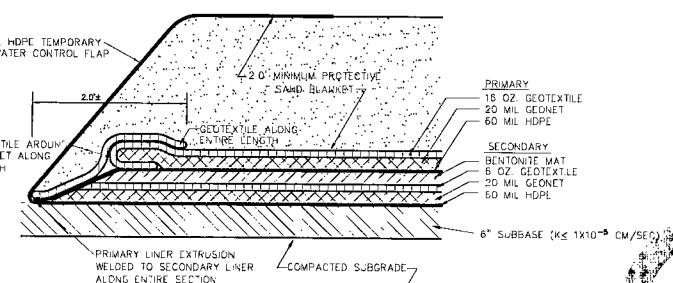
Draft No. 1476 02/28/2009

PLANS PREPARED UNDER THE
DIRECTION OF:
JANETTA BAER, CLM, P.E.
PE. NO. 4295
Date: Jan 14, 2009 - 4:07pm By: Rosswood

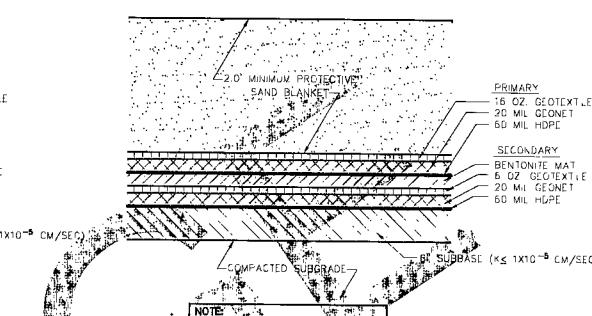
Draft No. 1476 02/28/2009



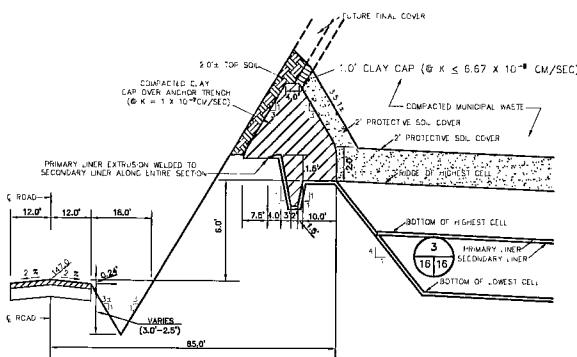
TYPICAL PRIMARY AND SECONDARY LINER
END TREATMENT BETWEEN NORTH - SOUTH PHASES



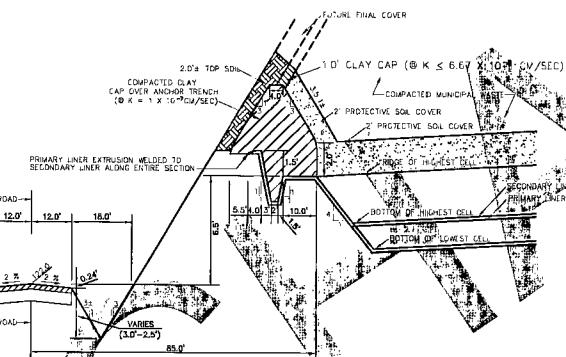
TYPICAL PRIMARY AND SECONDARY LINER
END TREATMENT BETWEEN EAST - WEST PHASES



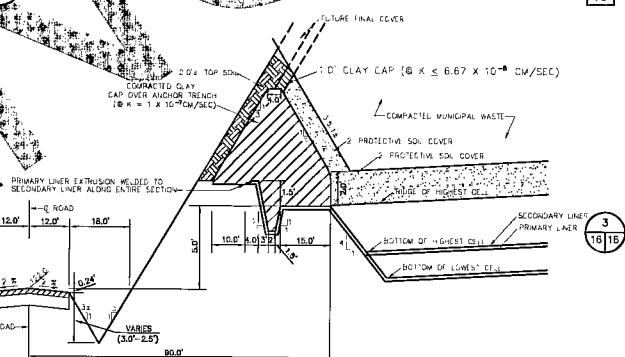
TYPICAL PRIMARY AND SECONDARY LINER SECTION



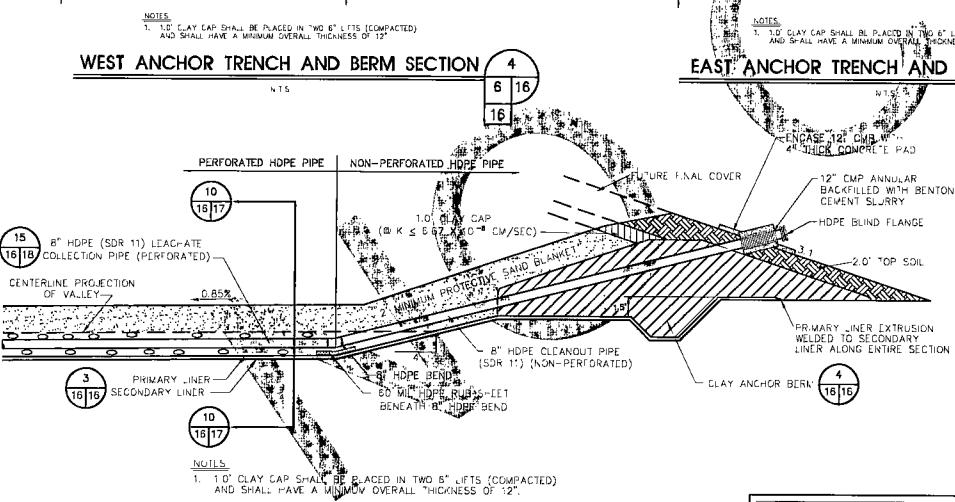
WEST ANCHOR TRENCH AND BERM SECTION



EAST ANCHOR TRENCH AND BERM SECTION

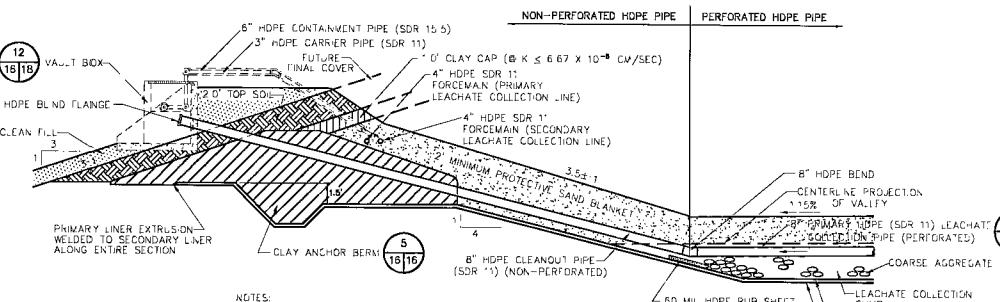


SOUTH ANCHOR TRENCH AND BERM SECTION



8" LEACHATE CLEANOUT RISER SECTION (WEST SIDE ONLY)

NOTE:
THIS PLAN HAS NOT BEEN UPDATED SINCE THE SECOND
PERMIT RENEWAL. GENERAL REVISIONS ARE LIMITED TO
MINOR ADJUSTMENTS TO TEXT SIZE AND LOCATION AS
WELL AS UPDATES TO THE BORDER AND LOGO.



NOTE:
1. 10' CLAY CAP SHALL BE PLACED IN TWO 6" LIFTS (COMPACTED)
AND SHALL HAVE A MINIMUM OVERALL THICKNESS OF 12".

8" LEACHATE CLEANOUT RISER SECTION (EAST SIDE ONLY)

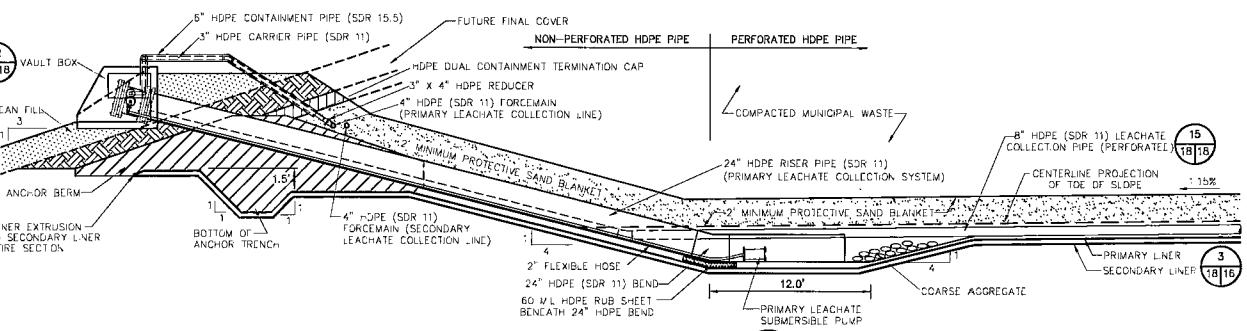
Permit Document
Leachate Trench and Sump Details
Trail Ridge Landfill Third Permit Renewal
For Trail Ridge Landfill, Inc.

FILE NO.	E-D7-144-01
PERIODIC REV.	3-15-08 (General Rev.)
PREPARED BY	JUANITA BAER, C.E.M., P.E.
DATE	September 25, 2009

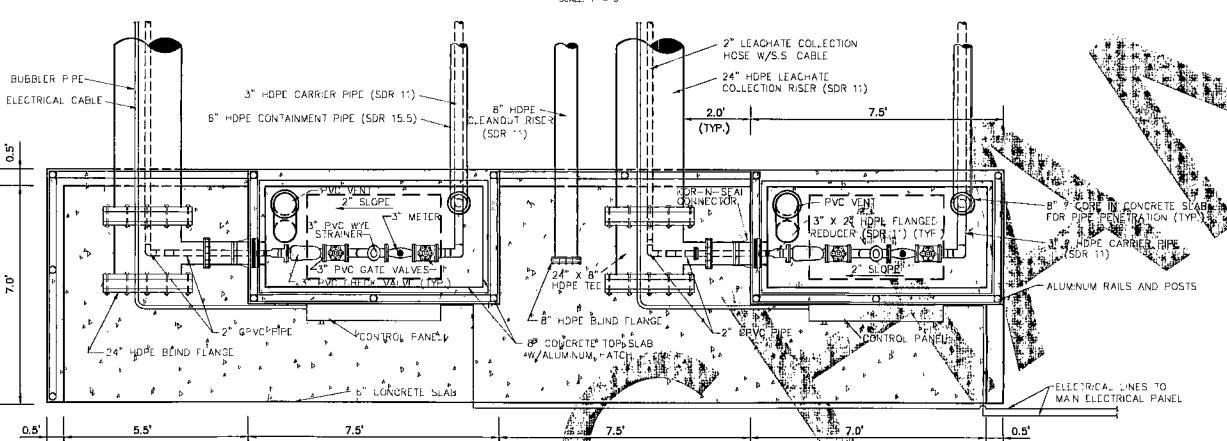
PLANS PREPARED UNDER THE DIRECTION OF:

[Handwritten Signature]

JUANITA BAER, C.E.M., P.E.
PIE NO. 43245
Destined: 10-14-2009 - E-0770-08 Rev. 17



PRIMARY LEACHATE COLLECTION SYSTEM SUMP SECTION

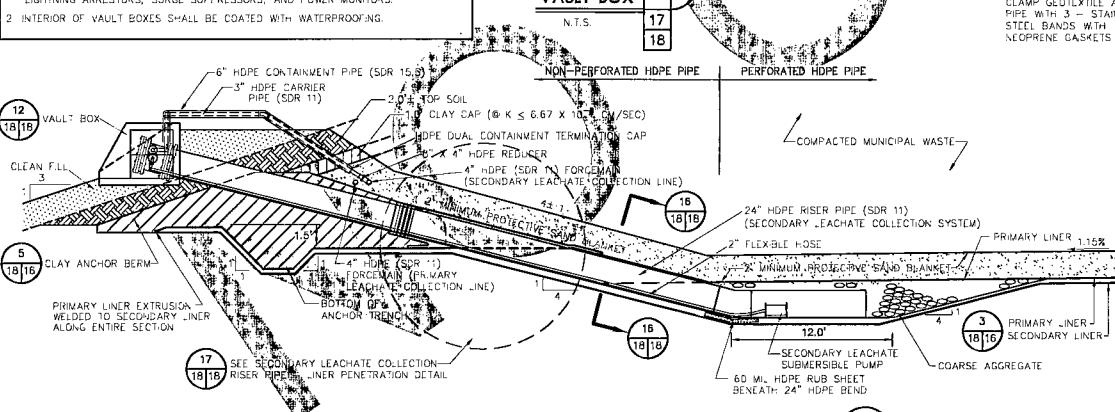


NOTES:

1. CONTROL PANELS SHALL BE NEW 4X CONTROL PANELS PROVIDED WITH NEEMA RATED MOTOR STARTERS, ELAPSED TIME METERS, HOA SELECTORS, HEAT SENSORS, LIGHTNING ARRESTORS, SURGE SUPPRESSORS, AND POWER MONITORS.
2. INTERIOR OF VAULT BOXES SHALL BE COATED WITH WATERPROOFING.

PLAN VIEW

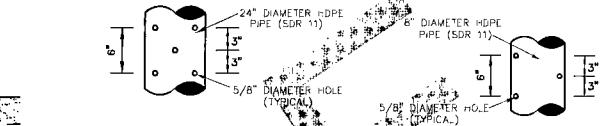
VAULT BOX 12 N.T.S. 16 18 17 18



SECONDARY LEACHATE COLLECTION SYSTEM SUMP SECTION

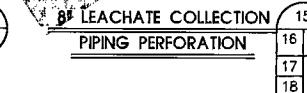
SCALE: 1" = 5'

NOTE:
THIS PLAN HAS NOT BEEN UPDATED SINCE THE SECOND PERMIT RENEWAL. GENERAL REVIEWS ARE LIMITED TO BORDER ADJUSTMENTS TO TEXT SIZE AND LOCATION AS WELL AS UPDATES TO THE BORDER AND LOGO.



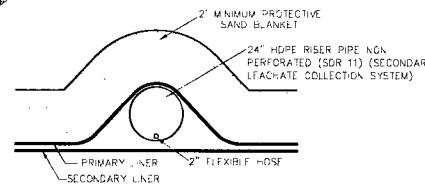
24" LEACHATE COLLECTION PIPING PERFORATION

17 18



24" LEACHATE COLLECTION PIPING PERFORATION

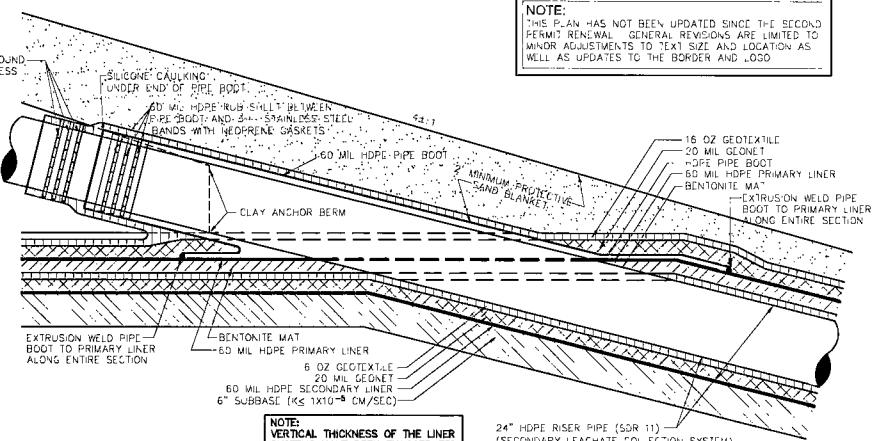
15 16 17 18



SECONDARY LEACHATE COLLECTION PIPE SECTION

16 18

NOTE:
THIS PLAN HAS NOT BEEN UPDATED SINCE THE SECOND PERMIT RENEWAL. GENERAL REVIEWS ARE LIMITED TO BORDER ADJUSTMENTS TO TEXT SIZE AND LOCATION AS WELL AS UPDATES TO THE BORDER AND LOGO.



SECONDARY LEACHATE COLLECTION RISER PIPE - LINER PENETRATION DETAIL

17 18

N.T.S.

PLANS PREPARED UNDER THE
DIRECTION OF:
[Signature]
JOHN BAKER, P.E.
JUANITA BAKER, C.G.E., P.E.

Printed: Apr 14, 2009 - 4:00pm [File: 111-111111]

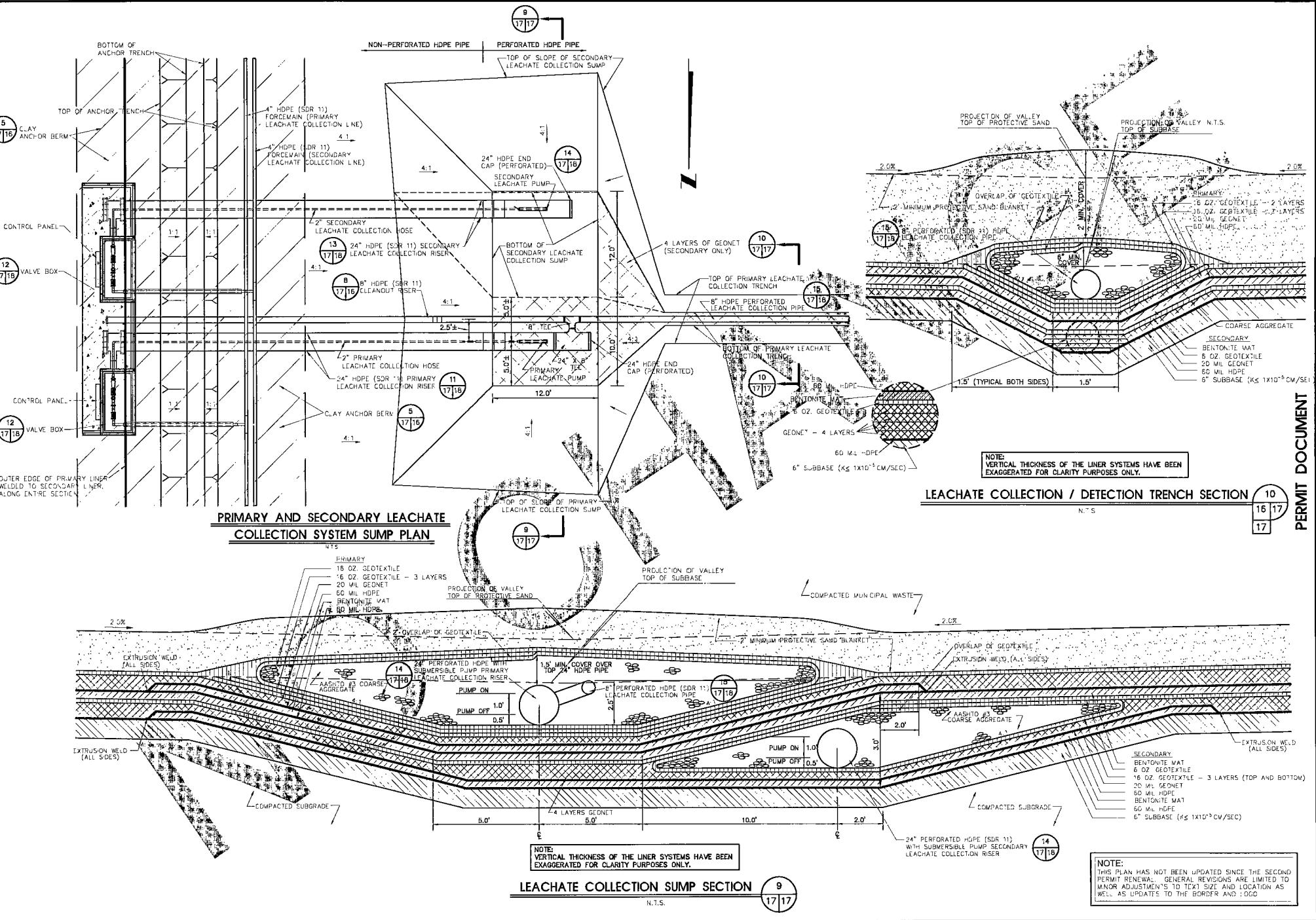
PERMIT DOCUMENT
LEACHATE SUMP AND VAULT BOX DETAILS
TRAIL RIDGE LANDFILL THIRD PERMIT RENEWAL
FOR TRAIL RIDGE LANDFILL, INC.

England, Thims & Miller, Inc.
 ENGINEERS - PLANNERS - SURVEYORS - LANDSCAPE ARCHITECTS
 14175 OLD ST AUGUSTINE ROAD JACKSONVILLE, FLORIDA 32256
 CERTIFICATE OF AUTHORIZATION NUMBER: 2584
 PHONE NUMBER: (904) 642-5900 TAX NUMBER: (904) 646-6466
 DRAWING NO. 18

© 2009 ENGLAND, THIMS & MILLER, INC. - LEACHATE SUMP SECTION

FIRM NO. E 070-004-01
 DRAWN BY S. Lickwood
 CHECKED BY J. Clark
 APPROVED BY J. Clark
 DATE September 25, 2002

REVISIONS
 9-15-05 GENERAL REVISIONS

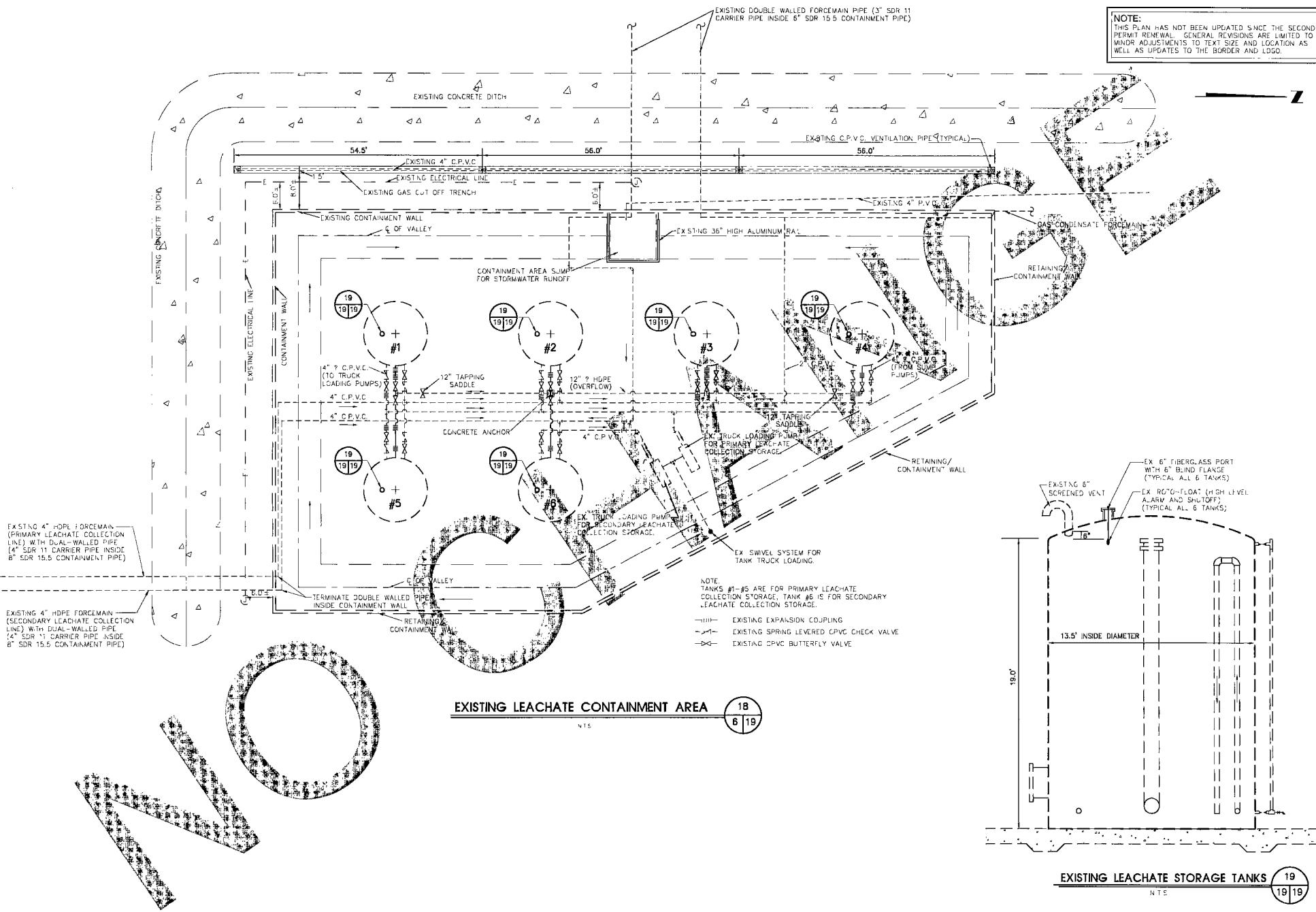


PERMIT DOCUMENT

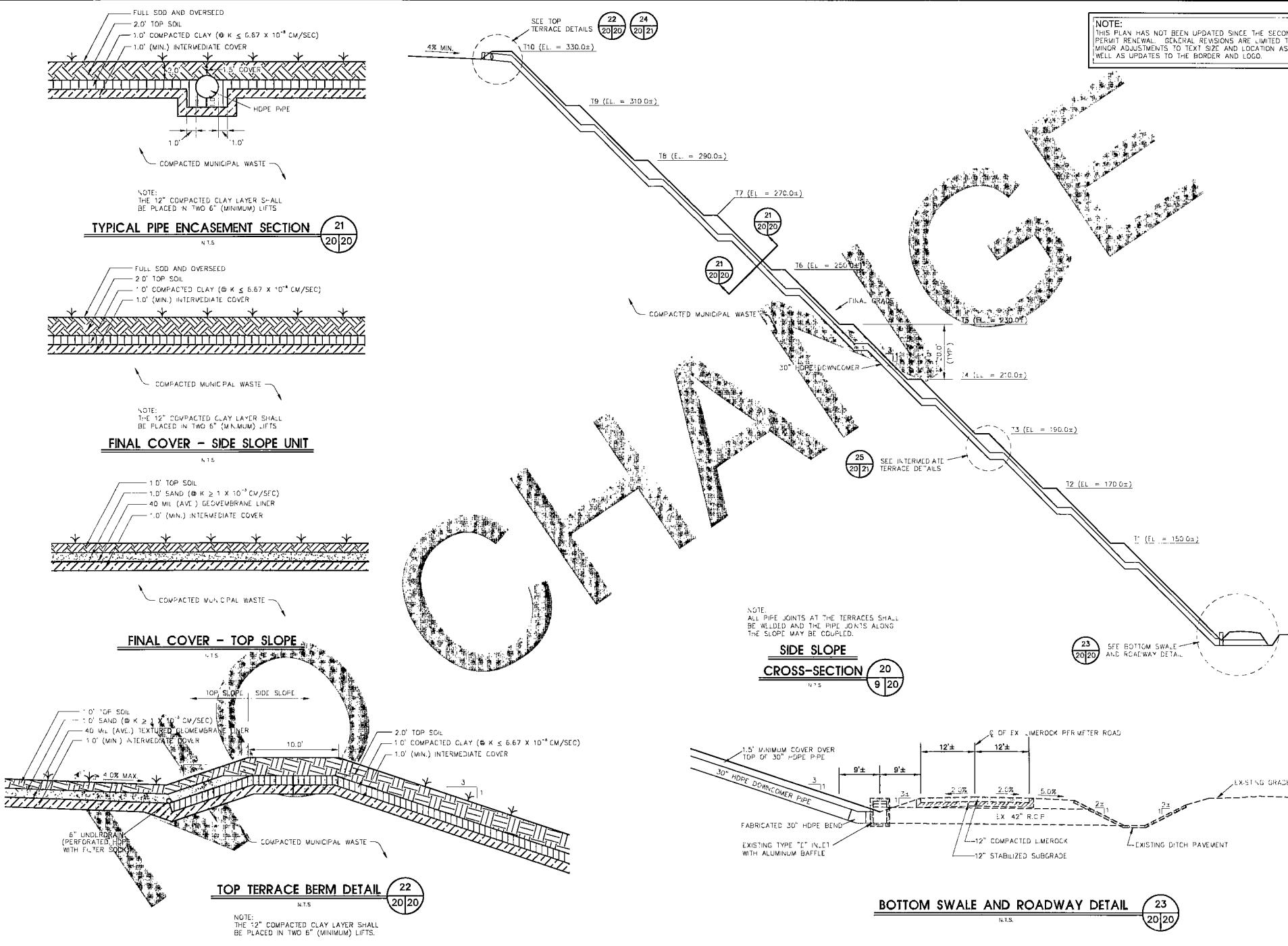
CONTAINMENT AREA DETAILS

**TRAIL RIDGE LANDFILL THIRD PERMIT RENEWAL
FOR
TRAIL RIDGE LANDFILL, INC.**

England, Thrim & Miller, Inc.		CONTAINMENT AREA DETAILS	
		TRAIL RIDGE LANDFILL THIRD PERMIT RENEWAL FOR TRAIL RIDGE LANDFILL, INC.	
ENGINEERS PLANNERS SURVEYORS LANDSCAPE ARCHITECTS 14775 OLD ST AUGUSTINE ROAD JACKSONVILLE, FLORIDA 32256 CERTIFICATE OF AUTOMATIC RENEWAL NUMBER: 20564 PHONE NUMBER (904) 642-8990 FAX NUMBER (904) 646-9455		PLANS PREPARED UNDER THE DIRECTION OF: <i>[Handwritten signatures]</i> JUANITA BADER, CLEM, P.E. P.E. NO. 3245 Permit No. 14-20564-2 Open By Inspection	
11W 1N E 07-044-01 REVISIONS S-15-0R GENERAL REVISIONS DRAWN BY S. L. Woodward DESIGNED BY J. Thrim CHIEF CIV. ENGR. J. Thrim TITL Sept 25, 2002		NOTE: THIS PLAN HAS NOT BEEN UPDATED SINCE THE SECOND PERMIT RENEWAL. GENERAL REVISIONS ARE LIMITED TO MINOR ADJUSTMENTS TO TEXT SIZE AND LOCATION AS WELL AS UPDATES TO THE BORDER AND LOGO.	



PLANS PREPARED UNDER THE
 DIRECTION OF:
 JUANITA BAUER, GCLM, P.E.
 P.E. NO. A3245
 DRAWN BY: S. Lachewood
 IN CHECKED BY: I. Dunn
 CERTIFIED BY: C. Dunn
 DRAWN ON: September 26, 2002
 SHEET NO: E-07-204-D
 DRAWING NO: 9-15-08 (E-07-204)
 REVISIONS: 1
 DATE: Sept 26, 2002
 FOR: TRAIL RIDGE LANDFILL, INC.
 PERMIT DOCUMENT
 CLOSURE DETAILS
 TRAIL RIDGE LANDFILL THIRD PERMIT RENEWAL
 ENGLAND, THIMS & MILLER, INC.
 ENGINEERS - PLANNERS - SURVEYORS - LANDSCAPE ARCHITECTS
 14775 OLD ST. AUGUSTINE ROAD JACKSONVILLE, FLORIDA 32256
 CERTIFICATE OF AUTHORITY NUMBER: 2884
 PHONE NUMBER: (904) 642-8800 FAX NUMBER: (904) 640-9405
 DRAWING NO: 20
 C:\VARDI\TRA\ENGLAND\TRAIL RIDGE LANDFILL\3RD PERMIT\3RD PERMIT.DWG



PLANS PREPARED UNDER THE
DIRECTION OF:
[Signature]
JUANITA BAUDER, CLEP, P.E.
DATE: Sept 25, 2002

REVISIONS:

F.M. NO. E-077-044-01
B-15 OR GENERAL REVISIONS:

HAWK AVE. S. Lockwood

INTERSTATE DR. J. Penn

RAIL RIDGE AVE. J. Penn

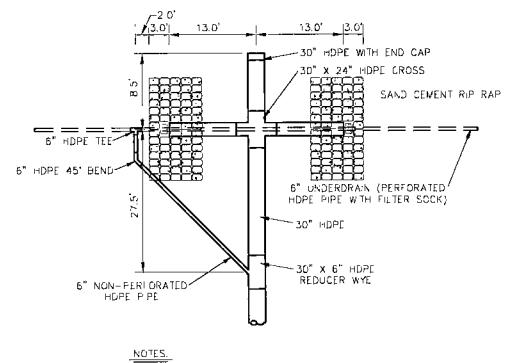
RAIL RIDGE, FLA. September 25, 2002

PERMIT DOCUMENT
CLOSURE DETAILS
TRAIL RIDGE LANDFILL THIRD PERMIT RENEWAL
FOR
RAIL RIDGE LANDFILL, INC.

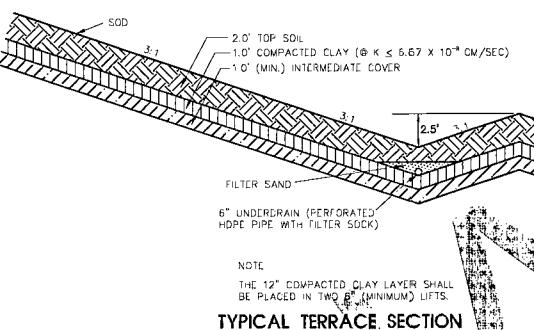
England, Thims & Miller, Inc.
ENGINEERS - PLANNERS - SURVEYORS - LANDSCAPE ARCHITECTS
14775 OLD ST. AUGUSTINE ROAD JACKSONVILLE, FLORIDA 32256
CERTIFICATE OF AUTORIZATION NUMBER: 2854 PHONE NUMBER (904) 846-9465
PHONE NUMBER (904) 842-8680 FAX NUMBER (904) 846-9465

DRAWING NO. 21

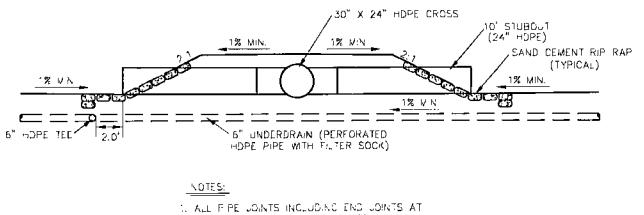
NOTE:
THE PLAN HAS NOT BEEN UPDATED SINCE THE SECOND
PERMIT RENEWAL. GENERAL REVISIONS ARE LIMITED TO
MINOR ADJUSTMENTS TO TEXT SIZE AND LOCATION AS
WELL AS UPDATES TO THE BORDER AND LOGO.



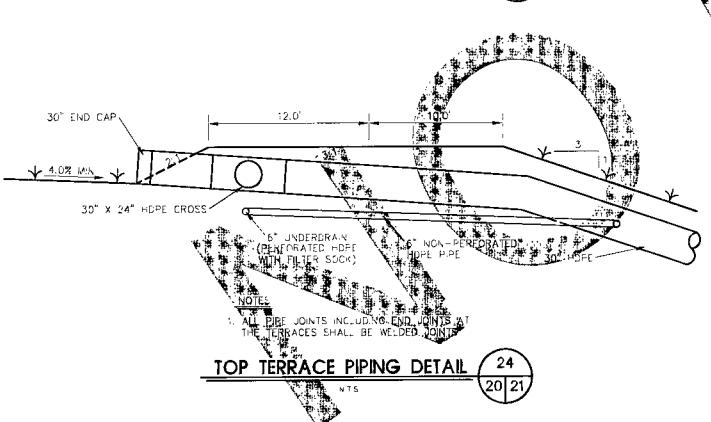
TOP TERRACE PIPING - PLAN VIEW 24
NTS 20/21



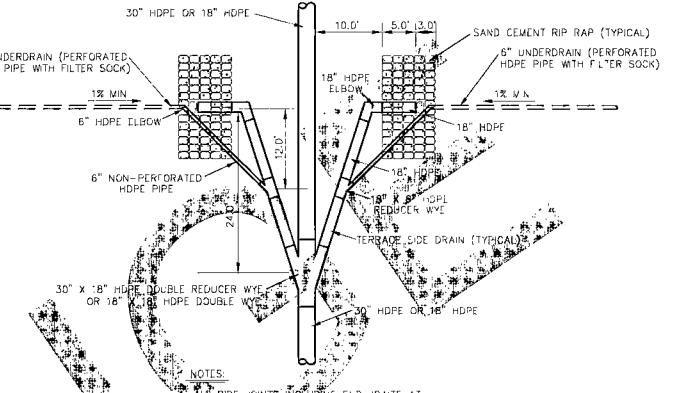
TYPICAL TERRACE SECTION



TOP TERRACE PIPING - SECTION VIEW 24
NTS 20/21



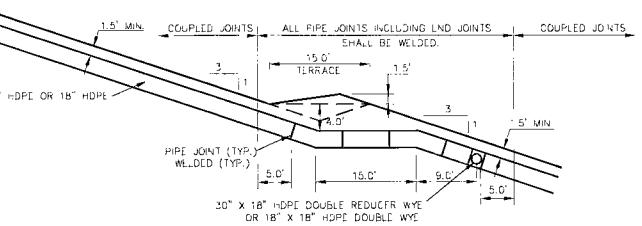
TOP TERRACE PIPING DETAIL 24
NTS 20/21



INTERMEDIATE TERRACE PIPING - PLAN VIEW 25
NTS 20/21



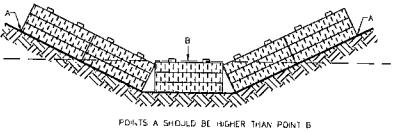
INTERMEDIATE TERRACE PIPING - SECTION VIEW 25
NTS 20/21



INTERMEDIATE TERRACE PIPING DETAIL 25
NTS 20/21

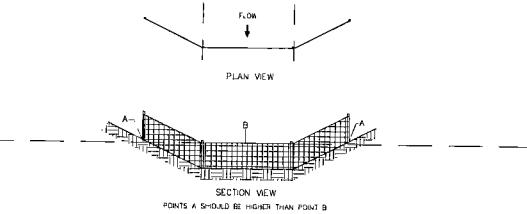
SEDIMENT AND EROSION CONTROL NOTES

- THE CONTRACTOR IS RESPONSIBLE FOR REMOVING SILT FROM SITE IF NOT REUSABLE ON-SITE AND ASSURING PLAN ALIGNMENT AND GRADE IN ALL DITCHES AND SWALES AT COMPLETION OF CONSTRUCTION.
- THE SITE CONTRACTOR IS RESPONSIBLE FOR REMOVING THE TEMPORARY EROSION AND SEDIMENT CONTROL DEVICES AFTER COMPLETION OF CONSTRUCTION AND ONLY WHERE AREAS HAVE BEEN STABILIZED.
- ADDITIONAL PROTECTION - ON-SITE PROTECTION IN ADDITION TO THE ABOVE MUST BE PROVIDED THAT WILL NOT PERMIT SILT TO LEAVE THE PROJECT COHESIVE DUE TO UNSEEN CONDITIONS OR ACCIDENTS.
- CONTRACTOR SHALL INSURE THAT ALL DRAWDOWN STRUCTURES, PAVES, ETC. ARE CLEANED DRY AND WORKING PROPERLY AT TIME OF ACCEPTANCE.
- WIRE MESH SHALL BE LAYED OVER THE DRAIN INLET SO THAT THE WIRE EXTENDS A MINIMUM OF 12 INCHES BEYOND THE INLET OPENING. THE STRUCTURE, HARDWARE CLOTH OR COMPARET WIRE MESH WITH 1/2- INCH OPENINGS SHALL BE USED. THE MESH SHALL BE OVERLAPPED.
- TOP STONE (GRADE ROCK) SHALL BE LAYERED OVER THE WIRE MESH AS INDICATED ON SEDIMENT FILTER DETAIL SEE SHEET 24A. THE DEPTH OF STONE SHALL BE AT LEAST 12 INCHES OVER THE ENTIRE INLET OPENING. THE STONE SHALL EXTEND BEYOND THE INLET OPENING AT LEAST 18 INCHES ON ALL SIDES.
- IF THE STONE LAYER BECOMES LOGGED WITH SEDIMENT, SO THAT IT NO LONGER ACCOMMODATES FLOW, THE STONE MUST BE PULLED AWAY FROM THE INLET, CLEANED AND REPLACED.
- BALES SHALL BE EITHER WIRE-BOUND OR STRING-TIED WITH THE BINDINGS ORIENTED AROUND THE SIDES RATHER THAN OVER AND UNDER THE BALES.
- BALES SHALL BE PLACED LENGTHWISE IN A SINGLE ROW SURROUNDING THE INLET, WITH THE ENDS OF ADJACENT BALES PRESSED TOGETHER.
- THE FILTER BARRIER SHALL BE ENTRENCHED AND BACKFILLED. A TRENCH SHALL BE EXCAVATED TO A MINIMUM DEPTH OF 4 INCHES. APPROXIMATELY ONE-HALF OF THE EXCAVATED SOIL SHALL BE BACKFILLED AND COMPACTED AGAINST THE FILTER BARRIER.
- EACH BALE SHALL BE SECURED AND HELD IN PLACE BY AT LEAST TWO STAKES OR REBAR DRIVEN THROUGH THE BALES.
- LOSE STRAW SHOULD BE KEPT BETWEEN BALES TO PREVENT WATER FROM ENTERING BETWEEN BALES.
- STRAW BALE BARRIERS SHALL BE INSPECTED IMMEDIATELY AFTER EACH RAINFALL AND AT LEAST DAILY DURING PROLONGED RAINFALL.
- LOSE ATTACHMENT SHALL BE GIVEN TO THE REPAIR OF DAMAGED BALES, END RUNS AND UNDERCUTTING BENEATH BALES.
- NECESSARY REPAIRS TO ENDRUNS OR REPLACEMENT OF BALES SHALL BE ACCOMPLISHED PROMPTLY.
- SEDIMENT DEPOSITS SHOULD BE REMOVED AFTER EACH RAINFALL. IT MUST BE REMOVED WHEN THE LEVEL OF DEPOSITION REACHES APPROXIMATELY ONE-HALF THE HEIGHT OF THE BARRIER.
- ANY SEDIMENT DEPOSITS REMAINING IN PLACE, AFTER THE STRAW BALE OR FILTER BARRIERS, AND OR SILT FENCES ARE NO LONGER REQUIRED, SHALL BE DRESSED TO ELEVATION TO THE DROSTING GRADE, PREPARED AND SEEDED.
- SILT FENCES AND FILTER BARRIERS SHALL BE INSPECTED IMMEDIATELY EACH RAINFALL AND AT LEAST DAILY DURING PROLONGED RAINFALL. ANY REQUIRED REPAIRS SHALL BE MADE IMMEDIATELY.
- SHOULD THE FABRIC ON A SILT FENCE OR FILTER BARRIER DECOMPOSE OR BECOME INEFFECTIVE PRIOR TO THE END OF THE EXPECTED USEABLE LIFE AND THE BARRIER STILL BE NECESSARY, THE FABRIC SHALL BE REPLACED IMMEDIATELY.
- THE STRUCTURE SHALL BE INSPECTED AFTER EACH RAIN AND REPAIRS MADE AS NEEDED.
- SEDIMENT SHOUL BE REMOVED AND THE TRAP REFILLED TO ITS ORIGINAL DIMENSION WHEN THE SEDIMENT HAS ACCUMULATED TO 1/2 THE DESIGN DEPTH OF THE TRAP. REMOVED SEDIMENT SHALL BE DEPOSITED IN A SUITABLE AREA AND IN SUCH A MANNER THAT IT WILL NOT ERODE.
- THE CONTRACTOR IS RESPONSIBLE FOR FOLLOWING THE BEST EROSION AND SEDIMENT CONTROL PRACTICES AS OUTLINED IN THE PLANS, SPECIFICATIONS, AND ST. JOHNS RIVER WATER MANAGEMENT DISTRICT SPECIFICATIONS AND CRITERIA.
- FOR ADDITIONAL INFORMATION ON SEDIMENT AND EROSION CONTROL, REFER TO "THE FLORIDA DEVELOPMENT MANUAL: A GUIDE TO SOUND LAND AND WATER MANAGEMENT" FROM THE STATE OF FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION (D.E.P.) CHAPTER 6.
- EROSION AND SEDIMENT CONTROL BARRIERS SHALL BE PLACED ADJACENT TO ALL METLAND AND STREAM BANKS, AS IS NECESSARY FOR DOWNSTREAM WATER QUALITY DEGRADATION. SITE DETAILS (THIS SHEET) FOR TYPICAL CONSTRUCTION.
- SOIL SHALL BE PLACED IN AREAS WHICH MAY REQUIRE IMMEDIATE EROSION PROTECTION TO ENSURE WATER QUALITY STANDARDS ARE MAINTAINED.
- ANY DISCHARGE FROM Dewatering ACTIVITY SHALL BE FILTERED AND CONVEYED TO THE DUFFAL IN A MANNER WHICH PREVENTS EROSION AND TRANSPORTATION OF DILUTED SOLIDS TO THE RECEIVING DUFFAL.
- Dewatering PUMPS SHALL NOT EXCEED THE CAPACITY OF THAT WHICH REQUIRES A CONSUMATIVE PERMIT FROM THE ST. JOHNS RIVER WATER MANAGEMENT DISTRICT.
- ALL DISTURBED AREAS SHALL BE GRASSED, FERTILIZED AND MULCHED UNTIL A PERMANENT VEGETATIVE COVER IS ESTABLISHED. CONTRACTOR SHALL TAKE ALL MEASURES TO STABILIZE DISTURBED AREAS THROUGH CONSTRUCTION, SITE DEVELOPMENT AND MAINTENANCE. NO FILM SLOPES 3:1 OR STEEPER TO RECEIVE STAKED SOLID SOIL.
- ALL Dewatering, EROSION, AND SEDIMENT CONTROL SHALL REMAIN IN PLACE UNTIL AFTER COMPLETION OF CONSTRUCTION, AND REMOVED ONLY WHEN AREAS HAVE BEEN STABILIZED.
- THIS PLAN INDICATES THE MINIMUM EROSION AND SEDIMENT CONTROL REQUIREMENTS FOR THIS PROJECT. THE CONTRACTOR IS RESPONSIBLE FOR MEETING ANY APPROPRIATE LOCAL REGULATIONS AND WATER QUALITY GUIDELINES AND MAY NEED TO INSTALL ADDITIONAL CONTROLS.
- THE CONTRACTOR SHALL BE REQUIRED TO RESPOND TO ALL WATER QUALITY AND REGULATORY ISSUES, RELATIVE TO COMPLIANCE OF SEDIMENT FOR EROSION AND SEDIMENTATION CONTROL. THE COST OF THIS COMPLIANCE SHALL BE PART OF THE CONTRACT.



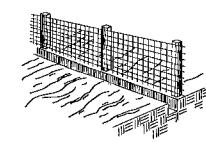
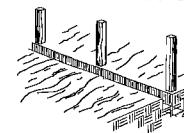
PROPER PLACEMENT OF STRAW BALE IN A DRAINAGE WAY

N.T.S.

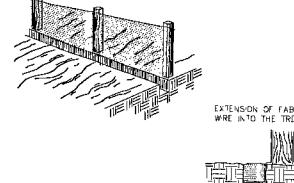
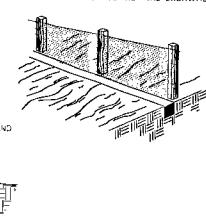


1. SET POSTS AND EXCAVATE A 4" X 4" TRENCH UPSLOPE ALONG THE LINE OF POSTS.

2. STAPLE WIRE FENCING TO THE POSTS.

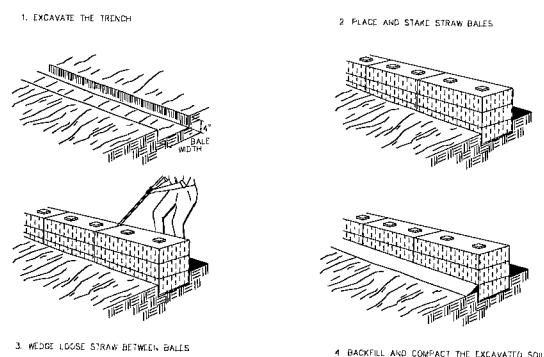


3. ATTACH THE FILTER FABRIC TO THE WIRE FENCE AND EXTEND IT INTO THE TRENCH



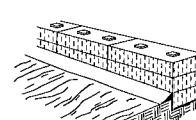
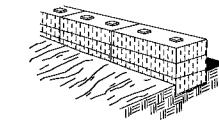
CONSTRUCTION OF SILT FENCE

N.T.S.

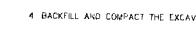


1. EXCAVATE THE TRENCH

2. PLACE AND STAKE STRAW BALES



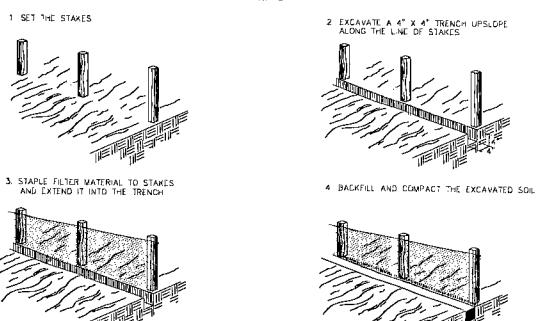
3. WEDGE LOOSE STRAW BETWEEN BALLS



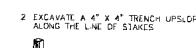
4. BACKFILL AND COMPACT THE EXCAVATED SOIL

CONSTRUCTION OF A STRAW BALE BARRIER

N.T.S.



1. SET THE STAKES



2. EXCAVATE A 4" X 4" TRENCH UPSLOPE ALONG THE LINE OF STAKES



3. STAPLE FILTER MATERIAL TO STAKES AND EXTEND IT INTO THE TRENCH



4. BACKFILL AND COMPACT THE EXCAVATED SOIL

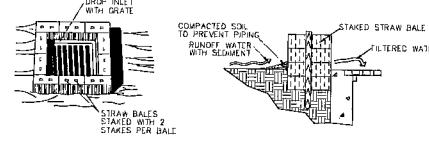


CONSTRUCTION OF A FILTER BARRIER

N.T.S.

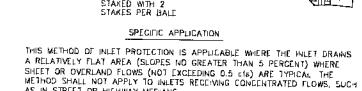
STABILIZED CONSTRUCTION ENTRANCE

N.T.S.



STRAW BALE DROP INLET SEDIMENT FILTER

N.T.S.



CROSS-SECTION OF A PROPERLY INSTALLED STRAW BALE

N.T.S.

PLANS PREPARED UNDER THE
DIRECTION OF:

Jeanne Ha Com
JULIANNA BADER, C.E.I.C., P.E.
PL. REG. NO. 2009 - 45-0759-036-00001
Plot No.: Jun 14, 2014

G-18 H-18 J-18 K-18 L-18 M-18 N-18 O-18 P-18 Q-18 R-18 S-18 T-18 U-18 V-18 W-18 X-18 Y-18 Z-18
GENERAL REVISIONS
1-12-09
P-1-12-09

FILE NO. E-17-GA-01	REVISION	P-1-12-09
REMOVED BY	S. L. Beck	1
CHANGED BY	J. Green	2
INITIAL BY	J. Green	3
TOTAL CHANGES	26	4

PERMIT DOCUMENT		
SEDIMENT AND EROSION CONTROL DETAILS		
TRAIL RIDGE LANDFILL THIRD PERMIT RENEWAL	FOR	TRAIL RIDGE LANDFILL, INC.
England-Thimy & Miller, Inc.	ELECTRONIC SIGNATURE	ENGINES - PLANNERS - SURVEYORS - LANDSCAPE ARCHITECTS 4475 OLD ST. AUGUSTINE ROAD JACKSONVILLE, FLORIDA 32256 CERTIFICATE OF AUTHORIZATION NUMBER: 2854 B44-0906, FAX NUMBER: (904) 845-5465 PHONE NUMBER: (904) 844-7444 DRAWING NO. 1415-17-GA-01
22	22	22

